MATRIX Mascot Search Results

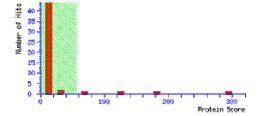
```
User : 1c_(G1@11273_12Mar2012)
Email : proteomics@ipatimup.pt
Search title : Project: Proteomica, Spot Set: Proteomica\12Jan2012, Label: G1, Spot Id: 221888, Peak List Id: 435349, MS Job Run Id: 303
MS data file : C:\Documents and Settings\Administrator\Desktop\xu\xu\xu\Proteomica\12Jan2012\ppw_G1_146796935503.txt

Database : OrganismSpecie Bos_taurus_Reference_Proteome_2016_06 (24214 sequences; 12839866 residues)
Timestamp : 8 Jul 2016 at 10:08:25 GMT
Warning : A Peptide summary report will usually give a much clearer picture of MS/MS search results.
Top Score : 294 for E1B198, Uncharacterized protein OS=Bos taurus GN=COL6A1 PE=1 SV=1
```

Mascot Score Histogram

Protein score is -10*Log(P), where P is the probability that the observed match is a random event. Protein scores greater than 56 are significant (p<0.05).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



Protein Summary Report



Index

	Accession	Mass	Score	Description
1.	E1BI98	109744	294	
	F1MKG2	110451		Uncharacterized protein OS=Bos taurus GN=COL6A2 PE=1 SV=2
3.	Q1JQB0	98215	122	•
	G3MXU3	25162	68	Uncharacterized protein OS=Bos taurus GN=COL6A2 PE=4 SV=1
	G3MYC4	19371	24	•
6.	F1MHI2	73699	23	Uncharacterized protein OS=Bos taurus GN=ARHGAP24 PE=4 SV=2
7.	E1BJM6	69143	19	Uncharacterized protein OS=Bos taurus GN=ZBTB7C PE=4 SV=2
8.	K7DXW4	10241	18	Uncharacterized protein OS=Bos taurus PE=3 SV=1
9.	Q2NKR1	10554	18	Mitochondrial import inner membrane translocase subunit Tim10 OS=Bos taurus GN=TIMM10 PE=3 SV=1
10.	F1MIS2	9764	18	Uncharacterized protein OS=Bos taurus PE=3 SV=2
11.	E1BC56	10970	18	Uncharacterized protein OS=Bos taurus GN=LOC785479 PE=4 SV=1
	F1MJH0	128067	17	Uncharacterized protein OS=Bos taurus GN=SPINK5 PE=4 SV=2
	F1MYI2	58389	17	Uncharacterized protein OS=Bos taurus GN=HNRNPM PE=1 SV=2
	P02698	8709	17	
	Q3MHX9	23497		Nudix (Nucleoside diphosphate linked moiety X)-type motif 16-like 1 OS=Bos taurus GN=NUDT16L1 PE=2 SV=1
	F1MSW3	36190		Uncharacterized protein OS=Bos taurus GN=MAGIX PE=4 SV=2
	Q32PB8	9220		40S ribosomal protein S21 OS=Bos taurus GN=RPS21 PE=3 SV=1
	F1N7K9	123826		Uncharacterized protein OS=Bos taurus GN=TBC1D8 PE=4 SV=2
	Q05717	31377		Insulin-like growth factor-binding protein 5 OS=Bos taurus GN=IGFBP5 PE=2 SV=2
	F1MWQ0	17662	15	
	Q3ZBJ9	13284		Protein BEX5 OS=Bos taurus GN=BEX5 PE=3 SV=1
	Q08DP2 Q3ZBC0	22300 7228		Loss of heterozygosity 12 chromosomal region 1 protein homolog OS=Bos taurus GN=LOH12CR1 PE=2 SV=1
	P00129	13468	15	DNA-directed RNA polymerases I, II, and III subunit RPABC4 OS=Bos taurus GN=POLR2K PE=1 SV=1 Cytochrome b-c1 complex subunit 7 OS=Bos taurus GN=UQCRB PE=1 SV=3
	A4FV50	40277		Cytochronie B-C: Complex Subdnit / OS-Bos Caturus GN-QC048 FE-1 3V-3 MGC142792 protein OS-Bos taurus GN-MGC142792 PE-2 SV-1
	E1BKM8	51997		Uncharacterized protein OS-Bos taurus GN-GCYP24A1 PE-4 SV-2
	E1BJL9	65973		Uncharacterized protein OS-Bos taurus GN-CCDC173 PE-4 SV-2
	Q0VCY3	40674		Surfeit locus protein 6 OS=Bos taurus GN=SURF6 PE=2 SV=1
	G3N3F0	23102		Uncharacterized protein OS-Bos taurus PE-4 SV-1
	Q3T2L0	42579		Caspase-15 OS=Bos taurus GN=LOC515736 PE=2 SV=1
	E1BDX9	40138		Uncharacterized protein OS=Bos taurus GN=FAM50A PE=4 SV=1
32.	P84081	20790		ADP-ribosylation factor 2 OS=Bos taurus GN=ARF2 PE=2 SV=1
	F1MNB0	17016	14	Cystatin OS=Bos taurus GN=CST8 PE=3 SV=2
34.	Q3SZ59	12718	14	60S ribosomal protein L36a OS=Bos taurus GN=RPL36A PE=3 SV=3
35.	G3MYU4	73163	14	Centrosomal protein of 290 kDa OS=Bos taurus GN=CEP290 PE=4 SV=1
	P84088	15499		Complexin-2 OS=Bos taurus GN=CPLX2 PE=1 SV=1
	Q2TBI9	19064	14	M-phase phosphoprotein 6 OS=Bos taurus GN=MPHOSPH6 PE=2 SV=1
	P80209	42920	14	
	F1MMR6	45132		Cathepsin D OS=Bos taurus GN=CTSD PE=1 SV=1
	E1BNB8	12329		Uncharacterized protein OS=Bos taurus PE=4 SV=2
	E1B9N9	39688		Uncharacterized protein OS=Bos taurus GN=WISP3 PE=4 SV=1
	Q5E9I6	20645		ADP-ribosylation factor 3 OS=Bos taurus GN=ARF3 PE=2 SV=3
	F1MIV1	57360		Uncharacterized protein OS=Bos taurus GN=ZBTB34 PE=4 SV=2
	F1MK70 F1MY44	59648 77716		Uncharacterized protein OS=Bos taurus GN=SPATS2 PE=4 SV=2 Uncharacterized protein OS=Bos taurus GN=HNRNPM PE=1 SV=2
	E1BHM6	206984		Uncharacterized protein OS=BOS taurus GN=RNNNFM FE-1 SV-2 Uncharacterized protein OS=BOS taurus GN=SCN11A FE-4 SV-2
	Q58DW6	23636		Oncharacterized protein Cos-Dos Caurus GN-SCNIA FE-4 SV-2 Ras-related protein Rab-25 OS-Bos taurus GN-RAB25 PE-2 SV-1
	Q08D88	51575		Nuclear factor interleukin-3-regulated protein OS=Bos taurus GN=NFIL3 PE=2 SV=1
	<u></u>			regulated protein of boo cautae on hills 12 2 0 1

49. 002691 27294 13 3-hydroxyacyl-CoA dehydrogenase type-2 OS=Bos taurus GN=HSD17B10 PE=1 SV=3
50. F1MEV2 44049 13 Uncharacterized protein OS=Bos taurus GN=KIAA0930 PE=4 SV=2

Results List

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 Uncharacterized protein OS=Bos taurus GN=COL6A1 PE=1 SV=1
 Observed Mr (expt)
                                  Mr(calc)
                                                ppm Start End Miss Ions
                                                     6.03 957 - 963 0 ---
                  800.4189
                                  800.4140
                                                                                               K.AVQEAQR.A

    887.4245
    886.4172
    886.4174
    3.10
    864
    871
    0
    ---

    957.5774
    956.5701
    956.5655
    4.85
    723
    - 731
    0
    ---

    978.5100
    977.5027
    977.5043
    -1.58
    976
    983
    0
    46

    978.5146
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    977.5043
    3.11
    976
    983
    0
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    1006.5014
    1005.4941
    1005.4879
    6.14
    69
    76
    0
    ---

                                                                                               R. TDPGODVR. V
                                                                                               R.IALVITDGR.S
                                                                                               R.QVNEPHVR.V
                                                                                               R.OVNEPHVR.V
                                                                                               R.FIDNLNDR.Y
1021.5699 1020.5626 1020.5716
                                                             714 - 722
1032.5238 1031.5165 1031.5070 9.27 106 - 114 1 ---
1046.6018 1045.5945
                                                   2.40 1005 - 1013
                                1045.5920
                                                                                               R.VPSYQALLR.G
1056.5515 1055.5442 1055.5400 3.99 1014 - 1022 0 ---
                1102.6184 1102.6386 -18.32
1134.3574 1133.3501 1133.3432 6.08
1162.6174 1161.6101
                               1161.5891
                                                             68 - 76
1184.6412 1183.6339 1183.6350 -0.88 1014 - 1023 1 ---
                                                   2.68 964 - 975
1216.7081 1215.7008 1215.6976
                                                                                               R.AGVEIFAVVVGR.O
1243.6161 1242.6088 1242.5993
                                                   1.49
1255.5972 1254.5899 1254.5881
                                                             990 - 1000
                                                                                               K.AAEYDVVFGER.H
1255.6000 1254.5927 1254.5881
                                                   3.72 990 - 1000 0 81 K.AAEYDVVFGER.H
1264.7130 1263.7057 1263.7047 0.78 712 - 722 1 ---
1289.6875 1288.6802 1288.6775 2.09 200 - 210 0 ---
                                                                                               R.LSIIATDHTYR.R
1414.8191 1413.8118 1413.8191 -5.15 641 - 652 2 ---
1445.7839 1444.7766 1444.7786 -1.40 200 - 211 1 ---
                                                                                               K.VIDRLSKDELVK.F
                                                                                               R.LSIIATDHTYRR.N
1475.7633 1474.7560 1474.7562
                                                             102 - 114
                                                 -0.12
                                                                                               R.GLTRMPSGRDELK.S + Oxidation (M)
                                                -2.40
1488.7194 1487.7121 1487.7157
                                                                                               R.FIDNLNDRYYR.C
1516.6807 1515.6734 1515.6954 -14.49
                                                                                               K.GYRGDEGPPGTEGPK.G
1526.7343 1525.7270 1525.7300 -1.96 790 - 802 0 ---
                                                                                               K.ENYAELLDDGFLK.N
                                                 -1.62
1540.7114 1539.7041 1539.7066
                                                             257 - 271
                                                                                               R.GPPGPRGDPGYEGER.G
                                                 -1.98 186 - 199
                                                                                 0 81 K.VFSVAITPDHLEPR.L
1580.8400 1579.8327 1579.8358
1580.8423 1579.8350 1579.8358 -0.52 186 - 199 0 ---
1644.7915 1643.7842 1643.8168 -19.82 68 - 79 2 ---
                                                                                               K.VESVATTPDHLEPR.L
                                                                                               K.RFIDNLNDRYYR.C
1718.8790 1717.8717 1717.8669 2.83 106 - 121 2 ---
                                                                                               R.MPSGRDELKSSVDAVK.Y
                                                 -0.55 136 - 151
1722.9375 1721.9302 1721.9312
                                                                                               K.GLEELLVGGSHLKENK.Y
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1774.9200 1773.9127 1773.9122 0.29 872 - 887
                                                                                0 ---
                                                                                               R. VAVVOYSGTGOORPER. A
                                                                                 0 68
                                                                                               R. VAVVOYSGTGOORPER. A
1932.0050 1930.9977 1931.0000 -1.17 938 - 956
1997.8312 1996.8239 1996.8190 2.48 241 - 256
                                                                                               R.LLLFSDGNSOGATPAAIEK.A
                                                                                               K.NNVEQVCCSFECQPAR.G
2015.9408 2014.9335 2014.9571 -11.70 694 - 711 0 ---
2031.9606 2030.9533 2030.9520 0.64 694 - 711 0 ---
                                                                                               K.LOWMGGGTFTGEALOYTR.S
                                                                                               K.LOWMGGGTFTGEALOYTR.S + Oxidation (M)
1.17 937 - 956 1 ---
5.81 693 - 711 1 ---
                                                                                               K.RLLLFSDGNSQGATPAAIEK.A
                                                                                               K.KLOWMGGGTFTGEALOYTR.S
2144.0718 2143.0645 2143.0521
K.KLOWMGGGTFTGEALOYTR.S + Oxidation (M)
                                                                                               R.GDEGPPGTEGPKGAPGPAGPPGDPGLMGER.G
                                                                                               K.YLVVVTDGHPLEGYKEPCGGLEDAVNEAK.H
3488.6545 3487.6472 3487.6440 0.93 653 - 682 1 ---
                                                                                               K.FEPGOSHAGVVOYSHNOMOEHVDLRDPNIR.N
3504.6423 3503.6350 3503.6389 -1.11
                                                            653 - 682 1 ---
                                                                                               \label{eq:K.FEPGQSHAGVVQYSHNQMQEHVDLRDPNIR.N + Oxidation (M)} K. \texttt{FEPGQSHAGVVQYSHNQMQEHVDLRDPNIR.N} + Oxidation (M)
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2894.3218, 2927.2520, 2931.3428, 2955.3005, 2974.4124, 2975.4084, 2990.3921, 3006.3206, 3011.2810, 3020.3557, 3021.2412, 3035.3281, 3053.3447, 3062.2456, 3086.4507, 3091.2622, 3103.3140, 3110.7285, 3113.8591, 3130.3557, 3140.4265, 3144.3657, 3173.5386, 3174.5486, 3185.4236, 3218.3301, 3259.3625, 3312.3267, 3331.4678, 3347.4761, 3363.4788, 3390.4675, 3431.4570, 3447.4666, 3463.4895, 3485.6985,
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3489.6521, 3493.0195, 3494.5571, 3509.5613, 3525.6025, 3538.4521, 3553.6230, 3579.5403, 3648.1956, 3655.4729, 3664.7500, 3695.6177, 3712.5720, 3738.5837, 3816.7043, 3937.8308, 4010.8696

```
Expect: 3e-014 Matches: 50
                  Mass: 110451 Score: 179
 Uncharacterized protein OS=Bos taurus GN=COL6A2 PE=1 SV=2

        ppm
        Start
        End Miss Ions
        Peptide

        2.68
        870
        -
        875
        1
        ---
        R.RLTLA

  Observed
                     Mr (expt)
                                        Mr (calc)
                                         728.4657
                                                                                                                  R.RLTLAR.K
                      828.4516
                                         828.4453
                                                              7.61
                                                                                                                  K.LNEQGLR.D
                                         829.4406
                                                              5.25
                                                                         188 - 194
                     859.4134
                                         859.4035
                                                              11.5
                                                                          747 - 753
                                         864.4341
                                                             12.0 863 - 869 0 ---
                     864.4445
                                                                                                                  R.FVEEVSR.R
                                        971.4825 0.13 852 - 859 0 ---
997.5960 -12.28 195 - 203 0 ---
                     971.4826
                                                                                                                  R.LGEONFHK.V
                     997.5838
                                                                                                                  R.LFAVPPNLK.L
1024.5516 1023.5443 1023.5349 9.21 129 - 137 0 ---
1043.5178 1042.5105 1042.5043 5.95 876 - 884 1 ---
                                                                                                                  K.SLOSISSFR.R
                                                                                                                  R.KDDDPLNAR.V
1057.6100 1056.6027 1056.6080 -5.01 885 - 894 0 56
1057.6107 1056.6034 1056.6080 -4.35 885 - 894 0 ---
                                                                                                                  R.VALLOFGGPR.E
                                                                                                                  R.VALLQFGGPR.E

    1074.6073
    1073.6000
    1073.5982
    1.72
    644
    - 652
    0
    ---

    1074.6100
    1073.6027
    1073.5982
    4.24
    644
    - 652
    0
    50

    1076.6123
    1075.6050
    1075.6026
    2.24
    733
    - 742
    0
    ---

    1122.5322
    1121.5249
    1121.5101
    13.2
    315
    - 325
    1
    ---

                                                                                                                  K.NFVINVVNR.L
                                                                                                                 K.NFVINVVNR.L
                                                                                                                  R.VFAVVITDGR.H
                                                                                                                  K.GEKGEFGADGR.K
1145.6348 1144.6275 1144.6241 3.03 996 - 1006 0 ---
1156.4957 1155.4884 1155.4655 19.9 248 - 256 0 ---
                                                                                                                  K.ISLGDPAAVFR.E
                                                                                                                  K.HEAYGECYK.V
1177.6410 1176.6337 1176.6363 -2.22 862 - 870 2 ---
1180.6428 1179.6355 1179.6360 -0.41 129 - 138 1 ---
1234.6414 1233.6341 1233.6102 19.4 548 - 559 2 ---
1318.6750 1317.6677 1317.6902 -17.05 420 - 433 2 ---
                                                                                                                  R.RFVEEVSRR.L
                                                                                                                  K.SLOSISSERR.G
                                                                                                                  R.GDFGSKGEPGRK.G
                                                                                                                  K.GGPGPRGPKGEPGR.R
1328.6600 1327.6527 1327.6520 0.52 211 - 221 0 49
1328.6620 1327.6547 1327.6520 2.02 211 - 221 0 ---
                                                                                                                  R.DIANTPHELYR.N
                                                                                                                  R.DIANTPHELYR.N
1333.7644 1332.7571 1332.7514 4.29 731 - 742 1 ---
1350.6853 1349.6780 1349.7013 -17.26 257 - 269 0 ---
                                                                                                                  K.TRVFAVVITDGR.H
                                                                                                                  K.VSCLEIPGPPGPK.G
1365.6489 1364.6416 1364.6433 -1.21 743 - 753 1 ---
1383.7037 1382.6964 1382.6752 15.4 793 - 804 0 ---
                                                                                                                  R.HDPRDDDLNLR.A
                                                                                                                  R.NMTLFSDLVAEK.F + Oxidation (M)

    1383.7037
    1382.6964
    1382.6762
    15.4
    793 - 804
    0 ---

    1474.5243
    1473.5170
    1473.5105
    4.42
    608 - 618
    1 ---

    1514.6849
    1513.6776
    1513.6693
    5.47
    245 - 256
    1 ---

    1530.6893
    1529.6820
    1529.6787
    2.19
    1009 - 1021
    0 ---

    1743.8966
    1742.8893
    1742.8992
    -5.64
    701 - 716
    0 ---

                                                                                                                  R ETCGCCDCEKR C
                                                                                                                  K.VMKHEAYGECYK.V
                                                                                                                  K DYDSLAOPGEEDR E
                                                                                                                  K.NLEWIAGGTWTPSALK.F

    1743.8966
    1742.8893
    1742.8892
    -5.64
    701 - 716
    0

    1769.8287
    1768.8214
    1768.8526
    -17.63
    273 - 290
    2
    ---

    1774.9180
    1773.9107
    1773.8983
    7.02
    381 - 398
    2
    ---

    1774.9200
    1773.9127
    1773.8983
    8.15
    381 - 398
    2
    ---

    1787.8239
    1786.8166
    1786.8162
    0.22
    1007 - 1021
    1
    ---

    1809.0499
    1808.0426
    1808.0308
    6.53
    195 - 210
    1
    ---

    1810.0303
    1809.0230
    1809.0261
    -1.68
    188 - 203
    2
    ---

    1932.0050
    1930.9977
    1930.9973
    0.20
    474 - 493
    2
    ---

    2019.8779
    2018.8706
    2018.8930
    -11.08
    360 - 380
    1
    ---

    2139.0991
    2138.0918
    2138.0818
    2.34
    204 - 221
    1
    ---

                                                                                                                  R.GOKGAKGNMGEPGEPGOK.G
                                                                                                                  K.GDPGRPGRRGPPGENGAK.G
                                                                                                                  K.GDPGRPGRRGPPGENGAK.G
                                                                                                                  R.EKDYDSLAQPGFFDR.F
                                                                                                                  R.LFAVPPNLKLNEQGLR.D
                                                                                                                  R.AREEGIRLFAVPPNLK.L
                                                                                                                  K.GDRGLPGPRGPQGTVGEPGK.Q
                                                                                                                  R.GPDGYVGEAGSPGERGDOGSK.G
2139.0991 2138.0918 2138.0868 2.34 204 - 221 1 ---
2174.0378 2173.0305 2173.0222 3.84 775 - 792 0 ---
                                                                                                                  K.LNEQGLRDIANTPHELYR.N

    2174.0378
    2173.0305
    2173.0222
    3.84
    775 - 792
    0 ---

    2179.0574
    2178.0501
    2178.0382
    5.47
    104 - 123
    0 ---

    2270.2183
    2269.2110
    2269.2166
    -2.45
    974 - 995
    1 ---

    2284.1841
    2283.1768
    2283.1682
    3.77
    160 - 182
    0 ---

    2354.0767
    2353.0694
    2353.0604
    3.82
    222 - 241
    0 ---

    2392.1462
    2391.1389
    2391.1343
    1.94
    668 - 688
    0 ---

    2423.2439
    2422.2366
    2422.2353
    0.53
    733 - 753
    2 ---

    2755.2358
    2754.2285
    2754.2266
    0.71
    581 - 607
    0 ---

    2771
    2437
    2770
    2364
    2770
    2015
    5 39
    581 - 607
    0 ---

                                                                                                                  K.HESENLYSIACDKPOOVR.N
                                                                                                                  R.YGGLHFSDLVEVFSPPGSDR.A
                                                                                                                  R.KONVVPTVVAVGSDVDTDVLSK.I
                                                                                                                  K.GVVNFAVVITDGHVTGSPCGGIK.L
                                                                                                                  R.NNYATMRPDSTEIDODTINR.I
                                                                                                                  R.VGVVQYSHEGTFEAIQLDDER.I
                                                                                                                  R.VFAVVITDGRHDPRDDDLNLR.A
                                                                                                                  R.GAPGPEGEPGPPGDPGLTECDVMTYVR.E
                                                                         581 - 607 0 ---
2771.2437 2770.2364 2770.2215
                                                             5.39
                                                                                                                  R.GAPGPEGEPGPPGDPGLTECDVMTYVR.E + Oxidation (M)
2862.2927 2861.2854 2861.3550 -24.32 245 - 269 2 ---
                                                                                                                  K.VMKHEAYGECYKVSCLEIPGPPGPK.G + Oxidation (M)
 No match to: 716.4763, 723.4098, 724.2417, 725.2533, 726.3622, 728.3046, 734.4570, 736.3904, 737.4152, 738.3791, 744.8651, 745.3838, 747.4550, 768.3673, 788.4571, 801.4262, 805.4606, 813.4481, 814.4558, 820.4053, 823.4778, 839.3830, 842.5110, 857.4382, 870.4165, 872.5054, 880.4424, 882.4292, 887.4245, 887.9669, 888.4561, 891.4898, 894.4144, 894.8973, 897.5006, 898.4523, 912.5132,
 913.5293, 925.4620, 927.4981, 931.4992, 934.5098, 957.5774, 960.5294, 961.4949, 963.4734, 965.4692, 970.5181, 975.5167, 976.5063, 977.5212, 978.5100, 978.5146, 983.6283, 992.4958, 993.5046, 995.4181, 1000.5959, 1002.5007, 1006.5014, 1011.5474, 1012.5447, 1014.5485, 1020.5577, 1021.5699, 1027.5438, 1028.5397, 1030.5978, 1032.5238, 1036.5260, 1037.5405, 1039.5641, 1040.5908, 1042.5388,
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 1129.5924, 1134.3574, 1137.5463, 1149.6057, 1153.6460, 1161.6295, 1162.6174, 1164.1815, 1170.5497, 1172.6156, 1184.6412, 1188.5603,
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 1289.6875, 1293.6401, 1303.6455, 1304.6677, 1307.6788, 1309.6780, 1319.6589, 1331.7888, 1336.0798, 1336.6155, 1351.7202, 1356.5811, 1359.1302, 1359.6246, 1374.7588, 1390.6974, 1393.7992, 1400.6683, 1401.6989, 1414.8191, 1429.3142, 1436.7889, 1444.7122, 1445.7839,
 1450.7223, 1456.7717, 1462.6630, 1467.7329, 1470.7394, 1471.2693, 1471.7250, 1472.2531, 1475.7633, 1483.7141, 1488.5333, 1488.7194
 1493.7366, 1502.5601, 1513.7441, 1516.6807, 1517.6437, 1518.7053, 1523.7611, 1526.7343, 1528.6973, 1536.8230, 1540.7114, 1551.7063,
 1553.7252, 1554.7474, 1557.6992, 1558.7140, 1563.6658, 1564.3619, 1565.7223, 1566.7162, 1572.7062, 1580.8400, 1580.8423, 1586.8090,
 1597.7913, 1599.8337, 1601.8030, 1614.8046, 1616.7968, 1628.7136, 1630.8103, 1635.7697, 1642.7682, 1643.7688, 1644.7915, 1646.8154,
 1651.7681, 1657.7932, 1663.8466, 1664.8557, 1666.7545, 1695.8208, 1707.8933, 1718.8790, 1721.9192, 1722.9375, 1728.8976, 1730.9116,
  1732.2391, 1734.1844, 1739.7894, 1755.2666,
                                                                               1755.7703, 1757.4702, 1757.9089, 1758.4524, 1758.8987, 1761.9023, 1765.7578,
 1770.3949, 1772.8273, 1773.8792, 1786.8268, 1829.8895, 1830.8380, 1833.3470, 1833.8501, 1851.8885, 1852.0399, 1862.9515, 1881.7703,
  1895.9634, 1906.8195, 1908.8512, 1920.7972,
                                                                               1936.9479, 1939.8563, 1940.8103, 1943.8293, 1954.8351, 1956.8574, 1958.8956, 1965.7998,
 1967.9565, 1969.9998, 1979.8927, 1981.3531, 1982.8179, 1995.8232, 1997.8312, 2003.8595, 2008.9971, 2011.8464, 2015.9408, 2025.8735, 2031.9606, 2047.9397, 2062.9578, 2067.0020, 2076.8943, 2081.9827, 2082.9966, 2087.0103, 2088.1108, 2089.1162, 2096.0430, 2097.0200,
 2108.9771, 2110.0061, 2140.0918, 2143.1006, 2144.0718, 2149.8516, 2160.0554, 2178.0471, 2188.0547, 2191.0457, 2198.1831, 2199.1499, 2203.0386, 2211.1052, 2223.1582, 2225.1470, 2227.1042, 2228.0725, 2238.1086, 2239.1538, 2243.1243, 2244.0684, 2254.0896, 2255.1482,
 2260.0779, 2272.1736, 2287.1108, 2307.0549, 2309.0659, 2310.0798, 2310.5271, 2311.0454, 2319.0945, 2337.6050, 2341.5510, 2353.0518
 2355.0564, 2371.0581, 2383.9592, 2388.0437, 2404.0471, 2412.0872, 2419.5879, 2420.0864, 2420.5930, 2426.5667, 2427.1211, 2438.1724, 2455.1553, 2458.1648, 2459.1794, 2478.1587, 2516.1133, 2533.1262, 2542.1650, 2546.1746, 2549.1316, 2550.1252, 2559.1470, 2561.1729,
 2562.1765, 2567.1514, 2572.1523, 2574.2678, 2576.1628, 2583.1218, 2587.2722, 2604.1682, 2612.1438, 2653.7173, 2655.1897, 2671.1787, 2687.1833, 2701.2820, 2706.2766, 2712.2104, 2714.2156, 2716.1953, 2717.2725, 2725.2354, 2729.1675, 2739.2351, 2743.2642, 2745.2900,
 2754.2197, 2759.2573, 2769.2219, 2776.2644, 2785.2388, 2786.2617, 2787.2400, 2793.2439, 2801.2378, 2803.2302, 2809.2549, 2815.2153,
 2817.2322, 2819.2236, 2830.2788, 2833.2280, 2836.2397, 2873.2961, 2889.2024, 2894.3218, 2927.2520, 2931.3428, 2955.3005, 2974.4124,
 2975.4084, 2990.3921, 3006.3206, 3011.2810, 3020.3557, 3021.2412, 3035.3281, 3053.3447, 3062.2456, 3086.4507, 3091.2622, 3103.3140,
 3110.7285, 3113.8591, 3130.3557, 3140.4265, 3144.3657, 3159.4985, 3173.5386, 3174.5486, 3185.4236, 3218.3301, 3259.3625, 3312.3267, 3331.4678, 3347.4761, 3363.4788, 3390.4675, 3431.4570, 3447.4666, 3463.4895, 3485.6985, 3488.6545, 3489.6521, 3493.0195, 3494.5571,
```

Mass: 98215

3504.6423, 3509.5613, 3525.6025, 3538.4521, 3553.6230, 3579.5403, 3648.1956, 3655.4729, 3664.7500, 3695.6177, 3712.5720, 3738.5837,

```
Score: 122
                                                                                       Expect: 1.5e-008 Matches: 42
  Collagen, type VI, alpha 2 OS=Bos taurus GN=COL6A2 PE=1 SV=1
                                                                              ppm Start End Miss Ions Peptide
   Observed
                           Mr (expt)
                                                   Mr (calc)
                                                                                7.61 195 - 201 0 ---
                                                     828.4453
                             829.4449
                                                     829.4406
                                                                                5.25
                                                                                               179 - 185
                            859.4134
                                                     859.4035
                                                                            11.5
                                                                                              738 - 744
                            992.4973
                                                     992.5039 -6.67
                                                                                               880 - 888
                                                     997.5960 -12.28 186 - 194 0 --- R.LFAVPPNLK.L
 1024.5516 1023.5443 1023.5349 9.21 120 - 128 0 --- K.SLQSISSFR.R
1074.6073 1073.6000 1073.5982 1.72 635 - 643 0 --- K.NEVINVVNR.L
1074.6100 1073.6027 1073.5982 4.24 635 - 643 0 50 K.NEVINVVNR.L
0 49 R.DIANTPHELYR.N
 1328.6600 1327.6527 1327.6520 0.52 202 - 212
 1328.6620 1327.6547 1327.6520
                                                                                              202 - 212
                                                                                                                         0 --- R.DIANTPHELYR.N
1 --- K.TRVFAVVITDGR.H
                                                                              2.02
 1333.7644 1332.7571 1332.7514
                                                                                               722 - 733
                                                                              4.29
                                                                                                                        1 --- K.TRVFAVVITDGR.H
0 --- K.VSCLEIPGPPGPK.G
1 --- R.HDPRDDLNLR.A
0 --- R.NMTLFSDLVAEK.F + Oxidation (M)
1 --- R.ETCGCCDCEKR.C
1 --- K.VMKHEAYGECYK.V
1 --- K.VMKHEAYGECYK.V + Oxidation (M)
 1350.6853 1349.6780 1349.7013 -17.26
                                                                                              248 - 260
 1365.6489 1364.6416 1364.6433 -1.21
                                                                                              734 - 744
                                                                             15.4
                                                                                               784 - 795
 1383.7037 1382.6964 1382.6752
 1474.5243 1473.5170 1473.5105
                                                                              4.42 599 - 609
 1514.6849 1513.6776 1513.6693 5.47 236 - 247 1530.6893 1529.6820 1529.6643 11.6 236 - 247
 1558.7140 1557.7067 1557.7174 -6.84 889 - 900 0 --- R.QDWMDLFIDTFK.L
1743.8966 1742.8893 1742.8992 -5.64 692 - 707 0 --- K.NLEWIAGGTWTPSALK.F
1743.8966 1742.8893 1742.8992 -5.64 692 - 707 0 --- K.NLEWIAGGTWTPSALK.F
1769.8287 1768.8214 1768.8526 -17.63 264 - 281 2 --- R.GQKGAKGNMGEPGEPGGK.G
1774.9180 1773.9107 1773.8983 7.02 372 - 389 2 --- K.GDPGRPGRGPPGENGAK.G
1774.9200 1773.9127 1773.8983 8.15 372 - 389 2 --- K.GDPGRPGRGPPGENGAK.G
1809.0499 1808.0426 1808.0308 6.53 186 - 201 1 --- R.LFAVPNLKLNEGGLR.D
1810.0303 1809.0230 1809.0261 -1.68 179 - 194 2 --- R.AREEGIRLFAVPPNLK.L
1932.0050 1930.9977 1930.9973 0.20 465 - 484 2 --- K.GDRGLPGRPGRQPTQCEPGK.Q
2019.8779 2018.8706 2018.8930 -11.08 351 - 371 1 --- R.GPDGYVGEAGSPGERGDQGSK.G
1390.0991 2138.0918 2138.0868 2.34 195 - 212 1 --- K.LNEGGLRIDATTHELYR.N
2174.0378 2173.0305 2173.0222 3.84 766 - 783 0 --- K.HESENLYSIACDKPQQVR.N
2179.0574 2178.0501 2178.0382 5.47 95 - 114 0 --- R.YGGLHFSDLVEVPSPPGSDR.A
2284.1841 2283.1768 2283.1682 3.77 151 - 173 0 --- K.GVVVPAVVITDGHVTGSPCGGIK.L
2354.0767 2353.0694 2353.0604 3.82 213 - 232 0 --- R.NNYATMRPDSTEIDQDTINR.I
2392.1462 2391.1389 2391.1343 1.94 659 - 679 0 --- R.VGVVQYSHEGTFEAIQLDDER.I
2423.2439 2422.2366 2422.2353 0.53 724 - 744 2 --- R.VGVVVYSHEGTFEAIQLDDER.I
2423.2439 2542.2266 2422.2353 0.57 24 - 744 2 --- R.GAPGPEGEPGPPGDPGLTECDVMTYVR.E
2771.2437 2770.2364 2770.2215 5.39 572 - 598 0 --- R.GAPGPEGEPGPPGDFGLTECDVMTYVR.E
2771.2437 2770.2364 2770.2215 5.39 572 - 598 0 --- R.GAPGPEGEPGPPGDFGLTECDVMTYVR.E
2771.2437 2770.2364 2770.2215 5.39 572 - 598 0 --- R.GAPGPEGEPGPPGDFGLTECDVMTYVR.E
2766.2227 2861.2854 2861.3550 -24.32 236 -260 2 --- K.VMKHEAYGECYKVSCLEIPGPPGFK.G + Oxidation (M)
 2862.2927 2861.2854 2861.3550 -24.32 236 - 260 2 --- K.VMKHEAYGECYKVSCLEIPGPPGPK.G + Oxidation (M)
  No match to: 716.4763, 723.4098, 724.2417, 725.2533, 726.3622, 728.3046, 729.4749, 734.4570, 736.3904, 737.4152, 738.3791,
   744.8651, 745.3838, 747.4550, 768.3673, 788.4571, 801.4262, 805.4606, 813.4481, 814.4558, 820.4053, 823.4778, 839.3830, 842.5110, 857.4382, 865.4518, 870.4165, 872.5054, 880.4424, 882.4292, 887.4245, 887.9669, 888.4561, 891.4898, 894.4144, 894.8973, 897.5006,
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   1995.8232, 1997.8312, 2003.8595, 2008.9971, 2011.8464, 2015.9408, 2025.8735, 2031.9606, 2047.9397, 2062.9578, 2067.0020, 2076.8943,
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  2228.0725, 2238.1086, 2239.1538, 2243.1243, 2244.0684, 2254.0896, 2255.1482, 2260.0779, 2270.2183, 2272.1736, 2287.1108, 2307.0549, 2309.0659, 2310.0798, 2310.5271, 2311.0454, 2319.0945, 2337.6050, 2341.5510, 2353.0518, 2355.0564, 2371.0581, 2383.9592, 2388.0437,
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  3553.6230, 3579.5403, 3648.1956, 3655.4729, 3664.7500, 3695.6177, 3712.5720, 3738.5837, 3816.7043, 3937.8308, 4010.8696
                       Mass: 25162
                                                          Score: 68
                                                                                          Expect: 0.0034 Matches: 12
  Uncharacterized protein OS=Bos taurus GN=COL6A2 PE=4 SV=1

        Mr (calc)
        ppm
        Start
        End
        Miss
        Tons

        728.4657
        2.68
        72 - 77
        1
        ---

        864.4341
        12.0
        65 - 71
        0
        ---

   Observed Mr (expt)
    729.4749
                            728.4676
   865.4518
                            864.4445
                                                                                                                                              R.FVEEVSR.R
                                                    971.4825 0.13
                                                                                              54 - 61 0 --- R.LGEONFHK.V
   972.4899
                          971.4826
```

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1043.5178 1042.5105 1042.5043 5.95 78 - 86 1 --- R.KDDDPLNAR.V

1057.6100 1056.6027 1056.6080 -5.01 87 - 96 0 56 R.VALLQFGGPR.E

1057.6107 1056.6034 1056.6080 -4.35 87 - 96 0 --- R.VALLQFGGPR.E

1145.6348 1144.6275 1144.6241 3.03 198 - 208 0 --- K.ISLGDPAAVFR.E

1149.6057 1148.5984 1148.5900 7.36 21 - 30 0 --- K.QDFPLMIAAK.E + Oxidation (M)

1177.6410 1176.6337 1176.6363 -2.22 64 - 72 2 --- R.FYVEEVSRR.L

1530.6893 1529.6820 1529.6787 2.19 211 - 223 0 --- K.DYDSLAQPGFFDR.F

1787.8239 1786.8166 1786.8162 0.22 209 - 223 1 --- R.EKDYDSLAQPGFFDR.F

1270.2183 2269.2110 2269.2166 -2.45 176 - 197 1 --- R.KQNVVPTVVAVGSDVDTDVLSK.I
 No match to: 716.4763, 723.4098, 724.2417, 725.2533, 726.3622, 728.3046, 734.4570, 736.3904, 737.4152, 738.3791, 744.8651, 745.3838, 747.4550, 768.3673, 788.4571, 801.4262, 805.4606, 813.4481, 814.4558, 820.4053, 823.4778, 829.4589, 830.4522, 839.3830, 842.5110, 857.4382, 860.4207, 870.4165, 872.5054, 880.4424, 882.4292, 887.4245, 887.9669, 888.4561, 891.4898, 894.4144, 894.8973,
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 1006.5014, 1011.5474, 1012.5447, 1014.5485, 1020.5577, 1021.5699, 1024.5516, 1027.5438, 1028.5397, 1030.5978, 1032.5238, 1036.5260,
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 1156.4957, 1161.6295, 1162.6174, 1164.1815, 1170.5497, 1172.6156, 1180.6428, 1184.6412, 1188.5603, 1193.6041, 1206.5107, 1209.5889, 1211.6099, 1212.6160, 1215.6743, 1216.7081, 1219.6886, 1227.6234, 1229.7098, 1234.6414, 1240.5974, 1242.6003, 1243.6161, 1253.6216,
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  1350.6853, 1351.7202, 1356.5811, 1359.1302, 1359.6246, 1365.6489, 1374.7588, 1383.7037, 1390.6974, 1393.7992, 1400.6683, 1401.6989,
 1414.8191, 1429.3142, 1436.7889, 1444.7122, 1445.7839, 1450.7223, 1456.7717, 1462.6630, 1467.7329, 1470.7394, 1471.2693, 1471.7250,
  1472.2531, 1474.5243, 1475.7633, 1483.7141, 1488.5333, 1488.7194, 1493.7366, 1502.5601, 1513.7441, 1514.6849, 1516.6807, 1517.6437,
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 3738.5837, 3816.7043, 3937.8308, 4010.8696
            Mass: 19371
                                    Score: 24
                                                         Expect: 86 Matches: 11
Zinc finger protein 143 OS=Bos taurus GN=ZNF143 PE=4 SV=1
 894.4144, 894.8973, 897.5006, 898.4523, 912.5132, 913.5293, 931.4992, 934.5098, 957.5774, 960.5294, 961.4949, 963.4734, 965.4692, 970.5181, 975.5167, 976.5063, 977.5212, 978.5100, 978.5146, 983.6283, 992.4958, 993.5046, 995.4181, 998.5911, 1000.5959, 1002.5007,
 1006.5014, 1011.5474, 1012.5447, 1014.5485, 1020.5577, 1021.5699, 1024.5516, 1027.5438, 1028.5397, 1030.5978, 1032.5238, 1036.5260, 1037.5405, 1039.5641, 1040.5908, 1042.5388, 1043.5178, 1045.5568, 1046.6018, 1056.5515, 1057.6100, 1057.6107, 1061.6168, 1074.6073,
 1074.6100, 1076.6123, 1102.6007, 1103.6257, 1105.6136, 1107.1058, 1113.5486, 1120.5498, 1122.5322, 1123.5986, 1128.5724, 1129.5924
 1134.3574, 1145.6348, 1149.6057, 1153.6460, 1156.4957, 1161.6295, 1164.1815, 1170.5497, 1172.6156, 1177.6410, 1180.6428, 1184.6412,
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  1557.6992, 1558.7140, 1563.6658, 1564.3619, 1565.7223, 1566.7162, 1572.7062, 1580.8400, 1580.8423, 1586.8090, 1597.7913, 1599.8337,
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 2081.9827, 2082.9966, 2087.0103, 2088.1108, 2089.1162, 2096.0430, 2097.0200, 2108.9771, 2110.0061, 2139.0991, 2140.0918, 2143.1006, 2144.0718, 2149.8516, 2160.0554, 2174.0378, 2178.0471, 2179.0574, 2188.0547, 2191.0457, 2198.1831, 2199.1499, 2203.0386, 2211.1052,
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  3712.5720, 3738.5837, 3816.7043, 3937.8308, 4010.8696
                    Mass: 73699
                                                       Score: 23
                                                                                        Expect: 1.3e+002 Matches: 25
  Uncharacterized protein OS=Bos taurus GN=ARHGAP24 PE=4 SV=2

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss Ions
        Peptide

        912.5132
        911.5060
        911.4977
        9.04
        230 - 236
        1
        ---
        K.HDRLFPK.D

   975.5167
                           974.5094
                                                     974.5079
                                                                          1.55
                                                                                               607 - 614
                                                                                                                          2 --- K.MRNAERAK.E
 1037.5405 1036.5332 1036.5553 -21.27
                                                                                              566 - 573 1 --- K.IEYESRIK.S
 1153.6460 1152.6387 1152.6576 -16.41 598 - 606 2 --- R.KRFTMIEIK.M + Oxidation (M) 1184.6412 1183.6339 1183.6093 20.8 600 - 608 1 --- K.FTMIEIKMR.N + Oxidation (M)
1184.6412 1183.6339 1183.6093 20.8 600 - 608 1 --- K.FTMIEIKMR.N + Oxidation (M)
1243.6161 1242.6088 1242.6317 -18.37 355 - 366 0 --- K.AQTTPNGSLQAR.R
1260.6227 1259.6154 1259.6105 3.88 609 - 619 2 --- R.NAERAKEDAEK.R
1286.6099 1285.6026 1285.6197 -13.31 378 - 389 0 --- K.MGTHSVQNGTVR.M
1523.7611 1522.7538 1522.7602 -4.20 406 - 418 0 --- R.SMSWLPNGYVTLR.D
1852.0399 1851.0326 1851.0076 13.5 160 - 174 1 --- K.SLPVVNYNLLKYICR.F
1262.9578 2061.9505 2061.9354 7.35 627 - 643 0 --- K.EMEQFFSTFGELTVEPR.R + Oxidation (M)
1203.0386 2202.0313 2202.0415 -4.64 627 - 644 1 --- K.EMEQFFSTFGELTVEPR.R
1243.1243 2242.1170 2242.0760 18.3 259 - 278 1 --- K.ALMGQLQNKENNNTNDSPVR.R
12583.1218 2582.1145 2582.1417 -10.53 2 - 23 0 --- M.TANHESYLLMASTQNDMEDWVK.S
1271.2156 2713.2083 2713.1822 9.63 1 - 23 0 --- M.TANHESYLLMASTQNDMEDWVK.S
 2776.2644 2775.2571 2775.2884 -11.27 621 - 643 1 --- R.NDMLQKEMEQFFSTFGELTVEPR.R 2786.2617 2785.2544 2785.2586 -1.51 268 - 290 2 --- K.ENNNTNDSPVRRCSWDKPESPQR.S
2786.2617 2785.2544 2785.2546 -1.51 268 - 290 2 --- K.ENNNTNDSPVRRCSWDKPESPQR.S
2819.2236 2818.2163 2818.2650 -17.28 280 - 305 1 --- R.CSWDKPESPQRSSMDNGSPTALPGSK.T
2955.3005 2954.2932 2954.3538 -20.51 2 - 26 1 --- M.TANHESYLLMASTQNDMEDWVKSIR.R + Oxidation (M)
2975.4084 2974.4011 2974.3661 11.8 279 - 305 2 --- R.RCSWDKPESPQRSSMDNGSPTALPGSK.T
3086.4507 3085.4434 3085.3943 15.9 1 - 26 1 --- -- MTANHESYLLMASTQNDMEDWVKSIR.R + Oxidation (M)
3174.5486 3173.5413 3173.5332 2.55 572 - 597 2 --- R.RCSWDKPESPQRSSMDNGSPTALPGSK.T
3389.4602 3389.5365 -22.49 280 - 310 2 --- R.CSWDKPESPQRSSMDNGSPTALPGSKTNSPR.N + Oxidation (M)
3664.7500 3663.7427 3663.6608 22.4 422 - 453 2 --- K.QKEQAGESGQHNRLSTYDNVHQQPSAMSLDDK.Q + Oxidation (M)
4010.8696 4009.8623 4009.8923 -7.48 529 - 565 2 --- R.ATSSDNSETFVSNNTSNHSALHSLVSSLKQEMTKQK.I + Oxidation (M)

**Moments to: 316.4763 323.4098 724.2417 725.2533 726.3667 729.4749 734.4570 736.3904 734.4577 736.3904 737.4152 739.338
  No match to: 716.4763, 723.4098, 724.2417, 725.2533, 726.3622, 728.3046, 729.4749, 734.48570, 736.3904, 737.4152, 738.3791, 744.8651, 745.3838, 747.4550, 768.3673, 788.4571, 801.4262, 805.4606, 813.4481, 814.4558, 820.4053, 823.4778, 829.4589, 830.4522, 839.3830, 842.5110, 857.4382, 860.4207, 865.4518, 870.4165, 872.5054, 880.4424, 882.4292, 887.4245, 887.9669, 888.4561, 891.4898,
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  2089.1162, 2096.0430, 2097.0200, 2108.9771, 2110.0061, 2139.0991, 2140.0918, 2143.1006, 2144.0718, 2149.8516, 2160.0554, 2174.0378, 2178.0471, 2179.0574, 2188.0547, 2191.0457, 2198.1831, 2199.1499, 2211.1052, 2223.1582, 2225.1470, 2227.1042, 2228.0725, 2238.1086,
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 2478.1587, 2516.1133, 2533.1262, 2542.1650, 2546.1746, 2549.1316, 2550.1252, 2559.1470, 2561.1729, 2562.1765, 2567.1514, 2572.1523, 2574.2678, 2576.1628, 2587.2722, 2604.1682, 2612.1438, 2653.7173, 2655.1897, 2671.1787, 2687.1833, 2701.2820, 2706.2766, 2712.2104, 2716.1953, 2717.2725, 2725.2354, 2729.1675, 2739.2351, 2743.2642, 2745.2900, 2754.2197, 2755.2358, 2759.2573, 2769.2219, 2771.2437, 2785.2388, 2787.2400, 2793.2439, 2801.2378, 2803.2302, 2809.2549, 2815.2153, 2817.2322, 2830.2788, 2833.2280, 2836.2397, 2862.2927,
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  26/3.2961, 2694.2024, 2694.2267, 2921.2520, 2921.3426, 2974.4124, 2994.3921, 3006.3247, 3062.2246, 3091.2610, 3020.33310, 3110.7285, 3173.8591, 3130.8551, 3140.4265, 3144.3657, 3159.4985, 3173.8598, 3185.4236, 3218.3301, 3259.3625, 3312.3267, 3331.4678, 3347.4761, 3363.4788, 3431.4570, 3447.4666, 3463.4895, 3485.6985, 3488.6545, 3489.6521,
  3493.0195, 3494.5571, 3504.6423, 3509.5613, 3525.6025, 3538.4521, 3553.6230, 3579.5403, 3648.1956, 3655.4729, 3695.6177, 3712.5720, 3738.5837, 3816.7043, 3937.8308
  E1BJM6
                       Mass: 69143 Score: 19
                                                                                      Expect: 3.3e+002 Matches: 8
  Uncharacterized protein OS=Bos taurus GN=ZBTB7C PE=4 SV=2
No match to: 716.4763, 723.4098, 724.2417, 725.2533, 726.3622, 728.3046, 729.4749, 734.4570, 736.3904, 737.4152, 738.3791, 744.8651, 745.3838, 747.4550, 768.3673, 788.4571, 801.4262, 805.4606, 813.4481, 814.4558, 820.4053, 823.4778, 829.4589, 830.4522, 839.3830, 842.5110, 857.4382, 860.4207, 865.4518, 870.4165, 872.5054, 880.4424, 882.4292, 887.4245, 887.9669, 888.4561, 891.4898,
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1129.5924, 1134.3574, 1137.5463, 1145.6348, 1149.6057, 1153.6460, 1156.4957, 1161.6295, 1162.6174, 1164.1815, 1170.5497, 1172.6156, 1177.6410, 1180.6428, 1188.5603, 1193.6041, 1206.5107, 1209.5889, 1211.6099, 1212.6160, 1215.6743, 1216.7081, 1219.6886, 1227.6234,
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  3655.4729, 3664.7500, 3695.6177, 3712.5720, 3738.5837, 3816.7043, 3937.8308, 4010.8696
                    Mass: 10241
                                                       Score: 18
                                                                                      Expect: 3.4e+002 Matches: 6
  Uncharacterized protein OS=Bos taurus PE=3 SV=1
Uncharacterized protein OS=Bos taurus PE=3 SV=1

Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide

1128.5724 1127.5651 1127.5651 3.56 2 - 10 1 --- M.GKITFYEDR.G

1488.7194 1487.7121 1487.7157 -2.42 4 - 15 1 --- K.ITFYEDRGFQGR.R

1644.7915 1643.8168 -19.84 4 - 16 2 --- K.ITFYEDRGFQGR.Y

2776.2644 2775.2571 2775.2242 11.9 16 - 37 2 --- R.RYECSSDHSNLQPYFSRCNSIR.V

2819.2236 2818.2163 2818.2744 -20.61 38 - 59 0 --- R.VDSGCWMLYERPNYQGHQYFLR.R

2975.4084 2974.4011 2974.3755 8.61 38 - 60 1 --- R.VDSGCWMLYERPNYQGHQYFLR.G

No match to: 716.4763, 723.4098, 724.2417, 725.2533, 726.3622, 728.3046, 729.4749, 734.4570, 736.3904, 737.4152, 738.3791, 734.4951 745.838 747.4550 768.3673 788.4571, 801.4262.858, 805.4606, 729.4749, 734.4570, 736.3904, 737.4152, 738.3791, 734.4951 745.838 747.4550 768.3673 788.4571, 801.4262.858, 805.4606. 813.4481, 814.4558, 820.4053, 823.4778, 829.4589, 83
 No match to: 16.4763, 725.4098, 724.2417, 725.2533, 726.3622, 728.3046, 729.4749, 734.4570, 736.3904, 737.4152, 738.3791, 744.8651, 745.3838, 747.4550, 768.3673, 788.4571, 801.4262, 805.4606, 813.4481, 814.4558, 820.4053, 823.4778, 829.4589, 830.4522, 839.3830, 842.5110, 857.4382, 860.4207, 865.4518, 870.4165, 872.5054, 880.4424, 882.4292, 887.4245, 887.9669, 888.4561, 891.4898, 894.4144, 894.8973, 897.5006, 898.4523, 912.5132, 913.5293, 925.4620, 927.4981, 931.4992, 934.5098, 957.5774, 960.5294, 961.4949, 963.4734, 965.4692, 970.5181, 972.4899, 975.5167, 976.5063, 977.5212, 978.5100, 978.5146, 983.6283, 992.4958, 993.5046, 995.4181,
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 O2NKR1
                                                      Score: 18
                                                                                         Expect: 3.6e+002 Matches: 6
 Mitochondrial import inner membrane translocase subunit Tim10 OS=Bos taurus GN=TIMM10 PE=3 SV=1
| Miss | Import | Imp
 963.4734, 965.4692, 970.5181, 972.4899, 975.5167, 976.5063, 977.5212, 978.5100, 978.5146, 983.6283, 992.4958, 993.5046, 995.4181, 998.5911, 1000.5959, 1002.5007, 1006.5014, 1011.5474, 1012.5447, 1014.5485, 1020.5577, 1021.5699, 1024.5516, 1027.5438, 1030.5978, 1032.5238, 1036.5260, 1037.5405, 1039.5641, 1040.5908, 1042.5388, 1043.5178, 1045.5568, 1046.6018, 1056.5515, 1057.6100, 1057.6107,
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  1319.6589, 1328.6600, 1328.6620, 1331.7888, 1333.7644, 1336.0798, 1336.6155, 1350.6853, 1351.7202, 1356.5811, 1359.1302, 1359.6246, 1365.6489, 1374.7588, 1383.7037, 1390.6974, 1393.7992, 1400.6683, 1401.6989, 1414.8191, 1429.3142, 1436.7889, 1444.7122, 1445.7839,
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  1536.8230, 1540.7114, 1551.7063, 1553.7252, 1554.7474, 1557.6992, 1558.7140, 1563.6658, 1564.3619, 1565.7223, 1572.7062, 1580.8400,
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 F1MIS2
                    Mass: 9764
                                                           Score: 18
                                                                                            Expect: 3.8e+002 Matches: 6
  Uncharacterized protein OS=Bos taurus PE=3 SV=2
| No. 

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss Ions
        Peptide

        801.4262
        800.4189
        800.4028
        20.0
        78 - 85 0 ---
        R.VQQSSG

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                                                                                             Expect: 4.2e+002 Matches: 7
                       Mass: 10970
                                                         Score: 18
  Uncharacterized protein OS=Bos taurus GN=LOC785479 PE=4 SV=1
No match to: 716.4763, 723.4098, 724.2417, 725.2533, 726.3622, 728.3046, 729.4749, 734.4570, 736.3904, 737.4152, 738.3791,
  744.8651, 745.3838, 747.4550, 768.3673, 788.4571, 801.4262, 805.4606, 813.4481, 820.4053, 823.4778, 829.4589, 830.4522, 839.3830, 842.5110, 857.4382, 860.4207, 865.4518, 870.4165, 872.5054, 880.4424, 882.4292, 887.4245, 887.9669, 888.4561, 891.4898, 894.4144,
  894.8973, 897.5006, 898.4523, 912.5132, 913.5293, 925.4620, 927.4981, 931.4992, 934.5098, 957.5774, 960.5294, 961.4949, 963.4734,
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                               Mass: 128067 Score: 17
                                                                                                                             Expect: 4.4e+002 Matches: 41
    Uncharacterized protein OS=Bos taurus GN=SPINK5 PE=4 SV=2
     Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide
                                                                                                            -2.04 491 - 496 2 --- R.SVKVKR.E
                                                                          787.4552
                                                                                                                                 219 - 225
                                        787.4498
                                                                                                           -6.78
                                                                         787.4552 -6.78 219 - 225 2 --- R.KANEKAK.R

804.4527 0.76 35 - 41 1 --- R.VLMKNGK.L + Oxidation (M)

829.4294 18.8 906 - 913 0 --- R.AKPSNDAK.D

871.4875 12.2 989 - 995 1 --- K.EALDRIR.L

933.4953 7.72 858 - 865 1 --- R.DGKLICTK.E

959.5400 -18.63 560 - 567 2 --- K.AETEKVKR.E

960.4811 6.83 381 - 388 0 --- K.NGQLLCTR.E

974.4893 20.7 353 - 360 2 --- K.EGESRNKR.Q

976.5263 -12.67 68 - 75 1 --- K.MILEKEAK.S + Oxidation (M)
                                        804.4534
                                        829.4449
                                        871.4982
                                        959.5221
                                      960.4877
                                        974.5094
                                      976.5139
 977.5212 976.5139 976.5263 -12.67 68 - 75 1 --- K.MILEKEAK.S + Oxidation (M)

1137.5463 1136.5390 1136.5462 -6.29 204 - 212 1 --- K.QGFSEEKNK.A

1170.5497 1169.5424 1169.5200 19.1 591 - 601 0 --- R.ENDPIEGPDGK.I

1188.5603 1187.5530 1187.5418 9.42 730 - 740 1 --- R.ESDPVRDADCK.S

1206.5107 1205.5034 1205.5104 -5.75 808 - 817 1 --- K.THGNKCAMCK.E

1211.6099 1210.6026 1210.5798 18.8 720 - 729 2 --- K.MKDGKLSCTR.E + Oxidation (M)

1242.6003 1241.5930 1241.5719 17.0 671 - 680 1 --- K.CAMCKAVFQK.E

1319.6589 1318.6516 1318.6299 16.4 725 - 735 1 --- K.LSCTRESDPVR.D

1450.7223 1449.7150 1449.7432 -19.43 854 - 865 2 --- R.NMVRDGKLICTK.E + Oxidation (M)

1475.7633 1474.7560 1474.7827 -18.09 307 - 318 2 --- R.QFVRNGKLPCTR.E

1558.7140 1557.7067 1557.7140 -4.68 951 - 962 1 --- R.QFVRNGKLPCTR.E

1633.7688 1642.7615 1642.7551 3.94 63 - 75 2 --- K.NKCYMCRSIFEK.E

1643.7688 1642.7615 1662.7508 1650.7316 17.7 977 - 988 2 --- K.NKCYMCRSIFEK.E + Oxidation (M)
 1651.7681 1650.7608 1650.7316 17.7 977 - 988 2 --- K.CHRCHNIEBKEAR.S + 2 OXIGATION 1651.7681 1650.7681 1650.7816 17.7 977 - 988 2 --- K.CHRCKNIFEK.E + OXIGATION (M) 1768.8339 1767.8266 1767.8461 -11.03 227 - 240 2 --- R.DTEKLCIEYQDRAK.N 1773.8792 1772.8719 1772.8587 7.43 906 - 920 2 --- R.AKPSNDAKDQCREVR.N 2081.9827 2080.9754 2080.9960 -9.89 311 - 329 2 --- R.NGKLPCTRENDPVQGPDGK.M
  2108.9771 2107.9698 2107.9424 13.0 454 - 472 2 --- R.GPDGKMHGNKCAMCASLFK.L 2143.1006 2142.0933 2142.0462 22.0 185 - 203 2 --- R.GPDGRIHGNKCALCAEIFK.Q
2143.1006 2142.0933 2142.0462 22.0 185 - 203 2 --- R.GPDGRIHGNKCALCAEIFK.Q
2178.0471 2177.0398 2177.0059 15.6 361 - 377 2 --- R.QTETTTSFEELCREYRK.S
2188.0547 2187.0474 2187.0637 -7.44 436 - 453 2 --- R.NQVRNGMLICTRENDPVR.G + Oxidation (M)
2243.1243 2242.1170 2242.0987 8.18 231 - 248 2 --- K.LCIEYQDRAKNGVLFCTR.E
2353.0518 2352.0445 2352.0847 -17.06 531 - 549 2 --- K.MHYNKCAMCASLFRLEEEK.K
2412.0872 2411.0799 2411.0741 2.40 459 - 478 2 --- K.MHYNKCAMCASLFKLEEEK.K
2533.1262 2532.1189 2532.0905 11.2 260 - 280 1 --- K.MHGNLCSMCLAFYQAEAEEKK.K + Oxidation (M)
2549.1316 2548.1243 2548.0854 15.3 260 - 280 1 --- K.MHGNLCSMCLAFYQAEAEEKK.K + 2 Oxidation (M)
2587.2722 2566.2649 2586.2609 1.56 643 - 665 2 --- R.THGNKCAMCAELFLKEAEENAK.R + Oxidation (M)
2587.2722 2586.2649 2586.2609 1.56 643 - 665 2 --- R.SLLONGNLFCTRENDPVRGPDGK.T
2745.2900 2744.2827 2744.2646 6.60 632 - 654 2 --- R.SLLONGNLFCTRENDPVRGPDGK.T
2754.2197 2753.2124 2753.2068 2.04 941 - 962 2 --- R.ISADECSNFRQHVENDELMCTR.E + Oxidation (M)
2862.2927 2861.2854 2861.2643 7.39 568 - 590 2 --- R.EAAQELCSEYRNYMRNGQLPCTR.E + Oxidation (M)
2862.2927 2861.2854 2861.2643 7.39 568 - 590 2 --- R.EAAQELCSEYNYMRNGQLPCTR.E + Oxidation (M)
2862.2927 2861.2854 2861.2643 7.39 568 - 590 2 --- R.EAAQELCSEYNYMRNGQLPCTR.E + Oxidation (M)
2863.6230 3552.6157 3552.5530 17.7 249 - 279 2 --- R.ENDPVRGPDGKMGNLCSMCLAFYQAEAEEK.K

No match to: 733.4098, 724.2417, 725.2533, 726.3622, 728.3046, 729.4749, 734.4570, 736.3904, 737.4152, 738
   No match to: 723.4098, 724.2417, 725.2533, 726.3622, 728.3046, 729.4749, 734.4570, 736.3904, 737.4152, 738.3791, 744.8651, 745.3838, 747.4550, 768.3673, 801.4262, 813.4481, 814.4558, 820.4053, 823.4778, 829.4589, 839.3830, 842.5110, 857.4382, 860.4207, 865.4518, 870.4165, 880.4424, 882.4292, 887.4245, 887.9669, 888.4561, 891.4898, 894.4144, 894.8973, 897.5006, 898.4523, 912.5132, 913.5293, 925.4620, 927.4981, 931.4992, 957.5774, 963.4734, 965.4692, 970.5181, 972.4899, 976.5063, 978.5100, 978.5146, 983.6283, 992.4988, 993.5046, 995.4181, 998.5911, 1000.5959, 1002.5007, 1006.5014, 1011.5474, 1012.5474, 1014.5485, 1020.5577, 1021.5699, 1024.5516, 1027.5438, 1028.5397, 1030.5978, 1032.5238, 1036.5260, 1037.5405, 1039.5641, 1040.5908, 1042.5388, 1043.5178, 1045.5568, 1046.6018, 1056.5515, 1057.6100, 1057.6107, 1061.6168, 1074.6073, 1074.6100, 1076.6123, 1102.6007, 1103.6257, 1105.6136, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.1058, 1107.105
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              3525.6025, 3538.4521, 3579.5403, 3648.1956, 3655.4729, 3664.7500, 3695.6177, 3712.5720, 3738.5837, 3816.7043, 3937.8308, 4010.8696
             F1MYI2 Mass: 58389 Score: 17
                                                                                                      Expect: 4.5e+002 Matches: 20
              Uncharacterized protein OS=Bos taurus GN=HNRNPM PE=1 SV=2

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss
        Ions
        Peptide

        745.3838
        744.3765
        744.3589
        23.7
        223
        229
        0
        ---
        R.MGPGIDR.I

           872.5054 871.4982 871.5127 -16.67 3 - 10 1 --- K.KAAEVLNK.H
975.5167 974.5094 974.4855 24.6 115 - 122 1 --- K.MDERALPK.G + Oxidation (M)
1000.5959 999.5886 999.6076 -19.02 2 - 10 2 --- M.KKAAEVLNK.H
1021.5699 1020.5626 1020.5539 8.58 470 - 477 1 --- R.KACQIFVR.N
1188.5603 1187.5530 1187.5791 -21.95 351 - 362 0 --- R.MVPAGMGAGLER.M
1269.6498 1268.6425 1268.6473 -3.78 209 - 222 0 --- R.INGGGGGSVPGIER.M
1528.6973 1527.6900 1527.6844 3.70 256 - 268 1 --- R.MGLVMDRMGSVER.M + 3 Oxidation (M)
1565.7223 1564.7150 1564.7344 -12.39 492 - 504 0 --- K.FNECGHVLYADIK.M
1566.1826 1565.7089 1565.7290 -12.82 291 - 304 1 --- K.GCGVVKESPEVAER.A
1768.8339 1767.8266 1767.8430 -9.25 530 - 544 2 --- R.MGLWBRMGSVER.M + Oxidation (M)
2081.9827 2080.9754 2080.9816 -2.95 385 - 402 2 --- R.MGLWBRMGSVER.M + 2 Oxidation (M)
2178.0471 2177.0398 2177.0432 -1.53 160 - 182 0 --- K.GIGMGNLGPAGMGMEGIGFGINK.M
2211.1052 2210.0979 2210.0428 24.9 256 - 275 2 --- R.MGLWBRMGSVERMGSIER.M
2354.0767 2353.0694 2353.0936 -10.29 390 - 410 2 --- R.MGSIERMGERSHER.M + 2 Oxidation (M)
2392.1462 2391.1389 2391.0981 17.1 269 - 290 1 --- R.MGSIERMGERGLER.M + 3 Oxidation (M)
2706.2766 2705.2693 2705.2506 6.92 238 - 262 2 --- R.MGSIERMGERGLER.M + 3 Oxidation (M)
2717.2725 2716.2652 2716.3103 -16.60 337 - 362 2 --- R.MGSIERMGERGLER.M + 3 Oxidation (M)
2708.2764 2705.2693 3705.2506 6.92 238 - 262 2 --- R.MGSIERMGERGLER.M + 3 Oxidation (M)
2708.2765 2705.2693 3705.2506 6.92 238 - 262 2 --- R.MGSIERMGERGLER.M + 3 Oxidation (M)
2709.2765 2716.2652 2716.3103 -16.60 337 - 362 2 --- R.MGSIERMGERGLER.MSIER.M + 3 Oxidation (M)
2709.2765 2716.2652 2716.3103 -16.60 337 - 362 2 --- R.MGPAMGPALGAGIER.MSIER.M + 3 Oxidation (M)
2709.2765 276.2652 2716.3103 -16.60 337 - 362 2 --- R.MGPAMGPALGAGIER.MSIER.MSIER.MSIER.G + 2 Oxidation (M)
2709.2765 2716.2652 2716.3103 -16.60 337 - 362 2 --- R.MGPAMGPALGAGIER.MSIER.MSIER.MSIER.MSIER.G + 2 Oxidation (M)
2709.2765 2766.27652 2766.27652 2766.27652 2766.27652 2766.27652 2766.27652 2766.27652 2766.27652 2766.27652 2766.27652 2766.27652 2766.27
                                                                                                               3 - 10 1 ---
               872.5054 871.4982 871.5127 -16.67
                                                                                                                                                           K.KAAEVLNK.H
              No match to: 716.4763, 723.4098, 724.2417, 725.2533, 726.3622, 728.3046, 729.4749, 734.4570, 736.3904, 737.4152, 738.3791,
              744.8651, 747.4550, 768.3673, 788.4571, 801.4262, 805.4606, 813.4481, 814.4558, 820.4053, 823.4778, 829.4589, 830.4522, 839.3830, 842.5110, 857.4382, 860.4207, 865.4518, 870.4165, 880.4424, 882.4292, 887.4245, 887.9669, 888.4561, 891.4898, 894.4144, 894.8973,
              897.5016, 898.4523, 912.5132, 913.5293, 925.4620, 927.4981, 391.4992, 931.5098, 957.5774, 960.5294, 961.4949, 963.4734, 965.4692, 970.5181, 972.4899, 976.5063, 977.5212, 978.5100, 978.5146, 983.6283, 992.4958, 993.5046, 995.4181, 998.5911, 1002.5007, 1006.5014, 1011.5474, 1012.5447, 1014.5485, 1020.5577, 1024.5516, 1027.5438, 1028.5397, 1030.5978, 1032.5238, 1036.5260, 1037.5405, 1039.5641, 1040.5908, 1042.5388, 1043.5178, 1045.5568, 1046.6018, 1056.5515, 1057.6100, 1057.6107, 1061.6168, 1074.6073, 1074.6100, 1076.6123, 1102.6007, 1103.6257, 1105.6136, 1107.1058, 1113.5486, 1120.5498, 1122.5322, 1123.5986, 1128.5724, 1129.5924, 1134.3574, 1137.5463, 1107.1058, 1137.4463, 1107.1058, 1137.4463, 1107.1058, 1137.4463, 1107.1058, 1137.4463, 1107.1058, 1137.4463, 1107.1058, 1137.4463, 1107.1058, 1137.4463, 1107.1058, 1137.4463, 1107.1058, 1137.4463, 1107.1058, 1137.4463, 1107.1058, 1137.4463, 1107.1058, 1137.4463, 1107.1058, 1137.4463, 1107.1058, 1137.4463, 1107.1058, 1137.4463, 1107.1058, 1137.4463, 1107.1058, 1137.4463, 1107.1058, 1137.4463, 1107.1058, 1137.4463, 1107.1058, 1137.4463, 1107.1058, 1137.4463, 1107.1058, 1137.4463, 1107.1058, 1137.4463, 1107.1058, 1137.4463, 1107.1058, 1137.4463, 1107.1058, 1137.4463, 1107.1058, 1137.4463, 1107.1058, 1137.4463, 1107.1058, 1137.4463, 1107.1058, 1137.4463, 1107.1058, 1137.4463, 1107.1058, 1137.4463, 1107.1058, 1137.4463, 1107.1058, 1137.4463, 1107.1058, 1137.4463, 1107.1058, 1137.4463, 1107.1058, 1137.4463, 1107.1058, 1137.4463, 1107.1058, 1137.4463, 1107.1058, 1137.4463, 1107.1058, 1137.4463, 1107.1058, 1137.4463, 1107.1058, 1137.4463, 1107.1058, 1137.4463, 1107.1058, 1137.4463, 1107.1058, 1137.4463, 1107.1058, 1137.4463, 1107.1058, 1137.4463, 1107.1058, 1137.4463, 1107.1058, 1137.4463, 1107.1058, 1137.4463, 1107.1058, 1137.4463, 1107.1058, 1137.4463, 1107.1058, 1137.4463, 1107.1058, 1137.4463, 1107.1058, 1137.4463, 1107.1058, 1137.4463, 1107.1058, 1137.4463, 1107.1058, 1137.4463, 1107.1058, 1137.4463, 1107.1058, 1137.4463, 1107.1058, 1137.4463, 1107.1058, 1137.4463, 11
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               1336.0798, 1336.6155, 1350.6853, 1351.7202, 1356.5811, 1359.1302, 1359.6246, 1365.6489, 1374.7588, 1383.7037, 1390.6974, 1393.7992,
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14. P02698 Mass: 8709
                                                                       Score: 17
                                                                                                      Expect: 5.3e+002 Matches: 6
              Guanine nucleotide-binding protein G(T) subunit gamma-T1 OS=Bos taurus GN=GNGT1 PE=1 SV=2
               Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide
                                                                                                           17 - 24 1 --- K.MEVDQLKK.E + 15 - 23 1 --- K.LKMEVDQLK.K
                                                                                       -22.22
              1006.5014 1005.4941 1005.5165
                                                                                                                                                             K.MEVDOLKK.E + Oxidation (M)
              1103.6257 1102.6184 1102.6056 11.6
                                                                                                            2 - 12 0 --- M.PVINIEDLTEK.D
1 - 12 0 --- -.MPVINIEDLTEK.I
              1270.6575 1269.6502 1269.6816 -24.72
              1401.6989 1400.6916 1400.7221 -21.75
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1635.7697 1634.7624 1634.7788 -9.99 42 - 55 1 --- R.DYVEERSGEDPLVK.G
1969.9998 1968.9925 1969.0156 -11.74 48 - 65 2 --- R.SGEDPLVKGIPEDKNFFK.E

No match to: 716.4763, 723.4098, 724.2417, 725.2533, 726.3622, 728.3046, 729.4749, 734.4570, 736.3904, 737.4152, 738.3791, 744.8651, 745.3838, 747.4550, 768.3673, 788.4571, 801.4262, 805.4606, 813.4481, 814.4558, 820.4053, 823.4778, 829.4589, 830.4522, 839.3830, 842.5110, 857.4382, 860.4207, 865.4518, 870.4165, 872.5054, 880.4424, 882.4292, 887.4245, 887.9669, 888.4561, 891.4898, 894.4144, 894.8973, 897.5006, 898.4523, 912.5132, 913.5293, 925.4620, 927.4981, 931.4992, 934.5098, 957.5774, 960.5294, 961.4949, 963.4734, 965.4692, 970.5181, 972.4899, 975.5167, 976.5063, 977.5212, 978.5100, 978.5146, 983.6283, 992.4958, 993.5046, 995.4181, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291, 900.5291,
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                                    Mass: 23497
                                                                                         Score: 16
                                                                                                                                                Expect: 6.8e+002 Matches: 7
  Nudix (Nucleoside diphosphate linked moiety X)-type motif 16-like 1 OS=Bos taurus GN=NUDT16L1 PE=2 SV=1

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss
        Ions
        Peptide

        977.5212
        976.5139
        976.5124
        1.57
        12 - 19
        1 ---
        R.ISRVER

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss Ions
        Peptide

        977.5212
        976.5139
        976.5124
        1.57
        12 - 19
        1 ---
        R.ISRVEAMR.L + Oxidation (M)

        1032.5238
        1031.5165
        1031.5321
        -15.10
        1 - 10
        0 ---
        -.MSAAAVPELK.R + Oxidation (M)

        1043.5178
        1042.5105
        1042.4940
        15.9
        48 - 55
        0 ---
        R.FSVLMQMR.F + 2 Oxidation (M)

        1057.6100
        1056.6027
        1056.6114
        -8.20
        81 - 90
        0 ---
        R.VLGLGLGCLR.L

        1122.5322
        1121.5249
        1121.5097
        13.6
        179 - 187
        0 ---
        K.VLNMMPEEK.L + 2 Oxidation (M)

        2191.0457
        2190.0384
        2190.0911
        -24.07
        179 - 198
        1 ---
        K.VLNMMPEEK.LaEALAAATEK.Q + 2 Oxidation (M)

        No match to: 716.4763, 723.4098, 724.2417, 725.2533, 726.3622, 728.3046, 729.4749, 734.4570, 736.3904, 737.4152, 738.3791, 748.4580
        738.45791, 736.3622, 738.4579, 736.4580
        738.4680
        738.4680
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        738.4680
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        738.4680
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  744.8051, 745.838, 747.4550, 768.3673, 788.4571, 801.4262, 805.4606, 813.4481, 814.4558, 820.4053, 823.4778, 829.4589, 831.4522, 839.3830, 842.5110, 857.4382, 860.4207, 865.4518, 870.4165, 872.5054, 880.4424, 882.4292, 887.4245, 887.966, 888.4561, 891.4889, 894.4144, 894.8973, 897.5006, 898.4523, 912.5132, 913.5293, 925.4620, 927.4981, 931.4992, 934.5098, 957.5774, 960.5294, 961.4949, 963.4734, 965.4692, 970.5181, 972.4899, 975.5167, 976.5063, 978.5100, 978.5146, 983.6283, 992.4958, 993.5046, 995.4181, 998.5911, 1000.5959, 1002.5007, 1006.5014, 1011.5474, 1012.5447, 1014.5485, 1020.5577, 1021.5699, 1024.5516, 1027.5438, 1028.5397, 1030.5978, 1036.5260, 1037.5405, 1039.5641, 1040.5908, 1042.5388, 1045.5568, 1046.6018, 1056.5515, 1061.6168, 1074.6073, 1074.6100, 1076.6123, 1030.6307, 1030.6357, 1030.6357, 1037.6405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405, 1037.5405,
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 F1MSW3 Mass: 36190 Score: 16
                                                                                                                                                Expect: 6.8e+002 Matches: 11
   Uncharacterized protein OS=Bos taurus GN=MAGIX PE=4 SV=2

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End
        Miss
        Ions
        Peptide

        965.4692
        964.4619
        964.4760
        -14.61
        96 - 103
        1
        ---
        R.RSETMGIR.T + Oxidation (M)

        1184.6412
        1183.6339
        1183.6058
        23.8
        4 - 15
        1
        ---
        R.RPGGGTDPRGSK.G

 1184.6412 1183.6339 1183.6058 23.8
```

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1243.6161 1242.6088 1242.5993 7.65 134 - 146 0 --- R.SSAGFGFTLSGGR.D
1255.5972 1254.5899 1254.5589 24.7 16 - 29 0 --- K.GGGGPQPEDASAR.Q
1328.6600 1327.6527 1327.6415 8.45 1 - 12 1 7 - MERRPGGGTDPR.G
1328.6620 1327.6547 1327.6415 9.95 1 - 12 1 --- - MERRPGGGTDPR.G
1470.7394 1469.7321 1469.7184 9.33 237 - 249 1 --- R.IPPPGEPEMTKTR.S
1616.7968 1615.7895 1615.7849 2.87 1 - 15 2 --- MERRPGGTDPR.GK.G + Oxidation (M)
2143.1006 2142.0933 2142.0566 17.1 13 - 34 2 --- R.GSKGGGGPQPEDASARQFLAR.L
2238.1086 2237.1013 2237.0522 22.0 228 - 247 1 --- K.EDVLPSPDRIPDPGEPEMTK.T + Oxidation (M)
3173.5386 3172.5313 3172.6048 -23.15 168 - 196 1 --- R.CGRQAGDLVLHINGESTQCITHVEVVDR.I
 No match to: 716.4763, 723.4098, 724.2417, 725.2533, 726.3622, 728.3046, 729.4749, 734.4570, 736.3904, 737.4152, 738.3791, 744.8651, 745.3838, 747.4550, 768.3673, 788.4571, 801.4262, 805.4606, 813.4481, 814.4558, 820.4053, 823.4778, 829.4589, 830.4522, 839.3830, 842.5110, 857.4382, 860.4207, 865.4518, 870.4165, 872.5054, 880.4424, 882.4292, 887.4245, 887.9669, 888.4561, 891.4898,
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  3712.5720, 3738.5837, 3816.7043, 3937.8308, 4010.8696
                   Mass: 9220
                                                          Score: 15
                                                                                        Expect: 7.1e+002 Matches: 6
  40S ribosomal protein S21 OS=Bos taurus GN=RPS21 PE=3 SV=1

        Observed
        Mr(expt)
        Mr(calc)
        ppm
        Start
        End Miss
        Ions
        Peptide

        1122.5322
        1121.5249
        1121.5023
        20.2
        62 - 71
        0 ---
        R.MGESD

| No. 
  998.5911, 1000.5959, 1002.5007, 1006.5014, 1011.5474, 1012.5447, 1014.5485, 1020.5577, 1021.5699, 1024.5516, 1027.5438, 1028.5397, 1030.5978, 1032.5238, 1036.5260, 1037.5405, 1039.5641, 1040.5908, 1042.5388, 1043.5178, 1045.5568, 1046.6018, 1056.5515, 1057.6100,
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Mass: 123826 Score: 15
                                                                                 Expect: 7.1e+002 Matches: 18
  Uncharacterized protein OS=Bos taurus GN=TBC1D8 PE=4 SV=2
   Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide
                                                                          21.2 1060 - 1066 0 ---
                         828.4516
                                                828.4341
                                                                                                                                     R.QSQPELK.L
887.4245 886.4172 886.4172 886.419 5.96 370 - 376 0 --- R.MHPEAFR.Q
897.5006 896.4933 896.4875 6.50 709 - 714 2 --- R.CRHRIR.V
1219.6886 1218.6813 1218.6642 14.1 894 - 903 2 --- K.QMIKDLAKEK.D + Oxidation (M)
1304.6677 1303.6604 1303.6806 -15.46 164 - 174 0 --- K.IMEQLADVTLR.R + Oxidation (M)
1331.7888 1330.7815 1330.7642 13.0 891 - 901 2 --- K.QLKQMIKDLAK.E + Oxidation (M)
1456.7717 1455.7644 1455.7326 21.8 407 - 417 2 --- R.TVCMFRTEKIR.K + Oxidation (M)
1518.7053 1517.6980 1517.7011 -2.03 769 - 780 0 --- R.HDPSRPYAEQYR.I
1616.7968 1615.7895 1615.7916 -1.26 812 - 824 0 --- R.LLDENMDHLIEFK.A
1664.8557 1663.8484 1663.8893 -24.58 129 - 142 1 --- R.LERTSNVFLIDTIR.I
1774.9180 1773.9107 1773.9513 -22.85 554 - 569 0 --- R.VIGAQVDQSVFEELIK.E
1774.9200 1773.9127 1773.9513 -21.72 554 - 569 0 15 R.VIGAQVDQSVFEELIK.E
1829.8895 1828.8822 1828.8560 14.3 467 - 480 1 --- K.CLUTEEIERDLHR.S
1833.8501 1832.8428 1832.8410 0.98 696 - 710 1 --- K.FGDQSVAQIEHMRCR.H
2174.0378 2173.0305 2172.9971 15.4 370 - 389 1 --- R.MPEAFRQSGSGSPDSGLSR.E
2516.1133 2515.1060 2515.1010 1.98 72 - 90 1 --- R.FNFPEAEKLITYYSCCCWK.G
2729.1675 2728.1602 2728.2236 -23.24 72 - 92 2 --- R.FNFPEAEKLITYYSCCCWK.G
4010.8696 4009.8623 4009.9619 -24.83 924 - 958 0 --- K.TLYSMFHEDPEENDLYQAIATVTTLLLQIGEVGQR.G + Oxidation (M)
No match to: 716.4763, 723.4098, 724.2417, 725.2533, 726.3622, 728.3046, 729.4749, 734.4570, 736.3904, 737.4152, 738.37
   887.4245
                         886.4172
                                                886.4119
                                                                       5.96
                                                                                     370 - 376 0 ---
                                                                                                                                    R.MHPEAFR.O
  No match to: 716.4763, 723.4098, 724.2417, 725.2533, 726.3622, 728.3046, 729.4749, 734.4570, 736.3904, 737.4152, 738.3791,
  744.8651, 745.3838, 747.4550, 768.3673, 788.4571, 801.4262, 805.4606, 813.4481, 814.4558, 820.4053, 823.4778, 830.4522, 839.3830, 842.5110, 857.4382, 860.4207, 865.4518, 870.4165, 872.5054, 880.4424, 882.4292, 887.9669, 888.4561, 891.4898, 894.4144, 894.8973,
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                    Mass: 31377 Score: 15
                                                                              Expect: 7.3e+002 Matches: 7
  Insulin-like growth factor-binding protein 5 OS=Bos taurus GN=IGFBP5 PE=2 SV=2
| This column | 
  No match to: 716.4763, 723.4098, 724.2417, 725.2533, 726.3622, 728.3046, 729.4749, 734.4570, 736.3904, 737.4152, 738.3791,
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                                                       Score: 15
                                                                                           Expect: 7.7e+002 Matches: 10
 F1MWQ0
                     Mass: 17662
 Complexin-3 OS=Bos taurus GN=CPLX3 PE=4 SV=1

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss
        Ions
        Peptide

        726.3622
        725.3550
        725.3604
        -7.53
        1
        -
        6
        0
        ---
        -.MAFMV.

                                                                                              1 - 6 0 --- -.MAFMVK.T
59 - 66 1 --- R.DAQFTQRK
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                       Mass: 13284 Score: 15
                                                                                           Expect: 7.8e+002 Matches: 6
 Protein BEX5 OS=Bos taurus GN=BEX5 PE=3 SV=1
  Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide
3052.3374 3052.3374 3052.3376 -11.54 7 - 33 2 --- K.ERREEGAPVONEEACPMGGGGEFKPR.E + Oxidation (M)

No match to: 716.4763, 723.4098, 724.2417, 725.2533, 726.3622, 728.3046, 729.4749, 734.4570, 736.3904, 737.4152, 738.3791,

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 Q08DP2 Mass: 22300 Score: 15
                                                                                      Expect: 8e+002 Matches: 6
  Loss of heterozygosity 12 chromosomal region 1 protein homolog OS=Bos taurus GN=LOH12CR1 PE=2 SV=1

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss
        Ions
        Peptide

        1273.6556
        1272.6483
        1272.6674
        -14.97
        68 - 80
        0 ---
        K.GLLSQTSPTNAK.L

        1774.9180
        1773.9107
        1773.9043
        3.61
        29 - 45
        1 ---
        R.AKMDDIVVVAQGSQASR.N

        1774.9200
        1773.9127
        1773.9043
        4.73
        29 - 45
        1 ---
        R.AKMDDIVVVAQGSQASR.N

        2203.0386
        2202.0313
        2202.0701
        -17.59
        118 - 135
        1 ---
        R.IKEMDLSVETLFSFMQER.Q

        2255.1482
        2254.1409
        2254.1779
        -16.41
        139 - 157
        2 ---
        R.YAKYAEQIQKVWEMSAILR.R

        2459.1794
        2458.1721
        2458.2236
        -20.94
        118 - 137
        2 ---
        R.IKEMDLSVETLFSFMQERQK.R

 2459.1794 2458.1721 2458.2236 -20.94 118 - 137 2 --- R.IKEMDLSVETLFSFMQERQK.R

No match to: 716.4763, 723.4098, 724.2417, 725.2533, 726.3622, 728.3046, 729.4749, 734.4570, 736.3904, 737.4152, 738.3791,

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 O3ZBC0 Mass: 7228
                                                       Score: 15
                                                                                      Expect: 8e+002 Matches: 5
 DNA-directed RNA polymerases I, II, and III subunit RPABC4 OS=Bos taurus GN=POLR2K PE=1 SV=1
744.8651, 745.3838, 747.4550, 768.3673, 788.4571, 801.4262, 805.4606, 813.4481, 814.4558, 820.4053, 823.4778, 829.4589, 830.4522, 839.3830, 842.5110, 857.4382, 860.4207, 865.4518, 870.4165, 872.5054, 880.4424, 882.4292, 887.4245, 887.9669, 888.4561, 891.4898, 894.4144, 894.8973, 897.5006, 898.4523, 912.5132, 913.5293, 925.4620, 927.4981, 931.4992, 934.5098, 957.5774, 960.5294, 961.4949,
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  3553.6230, 3579.5403, 3648.1956, 3655.4729, 3664.7500, 3695.6177, 3712.5720, 3738.5837, 3816.7043, 3937.8308, 4010.8696
                                                                                            Expect: 8.2e+002 Matches: 7
 P00129 Mass: 13468 Score: 15
  Cytochrome b-c1 complex subunit 7 OS=Bos taurus GN=UOCRB PE=1 SV=3

        Observed Description
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss Ions
        Peptide

        977.5212
        976.5139
        976.5124
        1.57
        65 - 72
        1 ---
        K.RALDLSMR.Q + Oxidation (M)

        1012.5447
        1011.5374
        1011.5277
        9.65
        89 - 96
        0 ---
        K.SYLEPYLK.E

        1289.6875
        1288.6802
        1288.6524
        21.6
        50 - 59
        1 ---
        R.RLPENLYNDR.V

        1758.8987
        1757.8914
        1757.9172
        -14.67
        46 - 59
        2 ---
        K.EAIRRLPENLYNDR.V

        1769.8287
        1768.8214
        1768.8228
        -0.75
        35 - 49
        1 ---
        R.DDTHHENDDVKEATR.R

        1932.0050
        1930.9977
        1930.9876
        5.26
        19 - 34
        2 ---
        R.KWYYNAAGFNKLGLMR.D

        2088.1108
        2087.1035
        2087.1058
        -1.09
        1 - 19
        2 ---
        -MAGRPAVSASSWUEGIRK.W + Oxidation (M)

        No match to: 716.4763, 723.4098, 724.2417, 725.2533, 726.3622, 728.3046, 729.4749, 734.4570, 736.3904.

 2087.1058 2087.1058 -1.09 1 - 19 2 --- -.MAGNAVSASSRWLEGIRK.W + Oxidation (M)

No match to: 716.4763, 723.4098, 724.2417, 725.2533, 726.3622, 728.3046, 729.4749, 734.4570, 736.3904, 737.4152, 738.3791,

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                       Mass: 40277 Score: 15
                                                                                            Expect: 8.4e+002 Matches: 14
  MGC142792 protein OS=Bos taurus GN=MGC142792 PE=2 SV=1

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss
        Ions
        Peptide

        716.4763
        715.4690
        715.4592
        13.7
        297 - 302
        1 ---
        K.LTLKNK.F

716.4763 715.4690 715.4592 13.7 297 - 302 1 --- K.LTLKNK.F

1145.6348 1144.6275 1144.6088 16.4 179 - 188 1 --- K.ELTADARELK.G

1657.7932 1656.7859 1656.8004 -8.73 301 - 313 1 --- K.ELTADARELK.G

1240.0918 2139.0845 2139.0506 15.8 216 - 233 1 --- R.VVNAMCKQWHVEHFVCAK.C

2355.0564 2354.0491 2354.0413 3.33 2 - 24 0 --- M.LGVASGMTNSNMANALANASCER.C + Oxidation (M)

2371.0581 2370.0508 2370.0362 6.17 2 - 24 0 --- M.LGVASGMTNSNMANALANASCER.C + 2 Oxidation (M)

2542.1650 2541.1577 2541.1749 -6.76 282 - 302 2 --- K.AWCVHCFACSTCSAKLTLKNK.F

2655.1897 2654.1824 2654.1781 1.62 2 - 26 1 --- M.LGVASGMTNSNMANALANASCERCR.G

2671.1787 2670.1714 2670.1730 -0.60 2 - 26 1 --- M.LGVASGMTNSNMANALANASCERCR.G + Oxidation (M)

2687.1833 2686.1760 2686.1680 3.00 2 - 26 1 --- M.LGVASGMTNSNMANALANASCERCR.G + 2 Oxidation (M)

2786.2617 2785.2544 2785.2186 12.9 1 - 26 1 --- M.LGVASGMTNSNMANALANASCERCR.G

2889.2024 2888.1951 2888.2581 -21.82 247 - 269 1 --- M.LGVASGMTNSNMANALANASCERCR.V

3091.2622 3090.2549 3090.2704 -5.00 70 - 93 0 --- K.YCEHPPQMLFAPCCHCCEFIIGR.V + Oxidation (M)
 3091.2622 3090.2549 3090.2704 -5.00 70 - 93 0 --- K.YCEHDFQMLFAPCCHQCGEFIIGR.V + Oxidation (M) 3431.4570 3430.4497 3430.5178 -19.85 70 - 96 1 --- K.YCEHDFQMLFAPCCHQCGEFIIGRVIK.A + Oxidation
                                                                                                                                                     K.YCEHDFOMLFAPCCHOCGEFIIGRVIK.A + Oxidation (M)
 No match to: 723.4098, 724.2417, 725.2533, 726.3622, 728.3046, 729.4749, 734.4570, 736.3904, 737.4152, 738.3791, 744.8651, 745.3838, 747.4550, 768.3673, 788.4571, 801.4262, 805.4606, 813.4481, 814.4558, 820.4053, 823.4778, 829.4589, 830.4522, 839.3830, 842.5110, 857.4382, 860.4207, 865.4518, 870.4165, 872.5054, 880.4424, 882.4292, 887.4245, 887.9669, 888.4561, 891.4898, 894.4144, 894.8973, 897.5006, 898.4523, 912.5132, 913.5293, 925.4620, 927.4981, 931.4992, 934.5098, 957.5774, 960.5294, 961.4949, 963.4734,
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  3937.8308. 4010.8696
               Mass: 51997
                                         Score: 14
                                                                Expect: 8.8e+002 Matches: 19
  Uncharacterized protein OS=Bos taurus GN=CYP24A1 PE=4 SV=2

        Observed
        Mr(expt)
        Mr(calc)
        ppm
        Start
        End Miss Ions
        Peptide

        913.5293
        912.5220
        912.5433
        -23.27
        129 - 135
        0 ---
        R.LEIKPWK.A

                                                                     121 - 128
  925.4620
                    924.4548
                                       924.4413 14.5
                                                                                          0 --- R.TESAHPOR.I.
992.4958 991.4885
                                       991.5120 -23.73
                                                                                                        -.MSSPISKSR.S
 2745.2900 2744.2827 2744.2940 -4.12 244 - 266 2 --- K.TMMSMFGKMMVTPVELHRSLNTR.V + 3 Oxidation (M)

No match to: 716.4763, 723.4098, 724.2417, 725.2533, 726.3622, 728.3046, 729.4749, 734.4570, 736.3904, 737.4152, 738.3791, 744.8651, 745.3838, 747.4550, 768.3673, 788.4571, 801.4262, 805.4606, 813.4481, 814.4558, 820.4053, 823.4778, 829.4589, 830.4522, 839.3830, 842.5110, 857.4382, 860.4207, 865.4518, 870.4165, 872.5054, 880.4424, 882.4292, 887.4245, 887.9669, 888.4561, 891.4898,
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  1350.6853, 1351.7202, 1356.5811, 1359.1302, 1359.6246, 1365.6489, 1374.7588, 1383.7037, 1390.6974, 1393.7992, 1400.6683, 1401.6989, 1414.8191, 1429.3142, 1436.7889, 1444.7122, 1445.7839, 1456.7717, 1462.6630, 1467.7329, 1470.7394, 1471.2693, 1471.7250, 1472.2531,
  1474.5243, 1475.7633, 1483.7141, 1488.5333, 1488.7194, 1493.7366, 1502.5601, 1513.7441, 1514.6849, 1516.6807, 1517.6437, 1518.7053, 1523.7611, 1526.7343, 1528.6973, 1530.6893, 1536.8230, 1540.7114, 1551.7063, 1553.7252, 1554.7474, 1557.6992, 1558.7140, 1563.6658,
  1564.3619, 1565.7223, 1566.7162, 1572.7062, 1580.8400, 1580.8423, 1586.8090, 1597.7913, 1599.8337, 1601.8030, 1614.8046, 1616.7968,
  1628.7136, 1630.8103, 1635.7697, 1642.7682, 1643.7688, 1644.7915, 1646.8154, 1651.7681, 1657.7932, 1663.8466, 1666.7545, 1695.8208, 1707.8933, 1718.8790, 1721.9192, 1722.9375, 1728.8976, 1730.9116, 1732.2391, 1734.1844, 1739.7894, 1743.8966, 1755.2666, 1755.7703,
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Expect: 9.2e+002 Matches: 23
E1BJL9 Mass: 65973
                                           Score: 14
 Uncharacterized protein OS=Bos taurus GN=CCDC173 PE=4 SV=2
  Observed Mr(expt) Mr(calc)
                                                          ppm Start End Miss Ions
  716.4763
                      715.4690
                                          715.4592
                                                               13.7 105 - 110 2 ---
                                                                                                                K.LEAKKK.R
                      804.4534
                                          804.4705 -21.30
                                                                           177 - 183
  805.4606
                                                                                                                 K.SKIKSDK.K
  813.4481
                      812.4408
                                         812.4327 10.1
                                                                            80 - 85
                                                                                                                K.KEMHLR.S
1032.5238 1031.5165 1031.4995 16.5 263 - 270 1 --- K.EEINESRR.L 1036.5260 1035.5187 1035.5349 -15.59 196 - 203 2 --- K.AFKEEREK.A 1162.6174 1161.6101 1161.5818 24.3 271 - 279 0 --- R.LFFEHLNDK.H 1193.6041 1192.5968 1192.6088 -10.03 169 - 178 1 --- R.DAQIEFQKSK.I 1318.6750 1317.6677 1317.6830 -11.56 270 - 279 1 --- R.RLFFEHLNDK.H 1365.6489 1364.6416 1364.6671 -18.64 477 - 488 1 --- R.EVIESESESTKK.Y 1400.6683 1399.6610 1399.6514 6.90 315 - 325 1 --- K.EAETHRLMEER.R
                                                                         1 - 13 1 --- -AAGTLEMLVRFGR.R + Oxidation (M) 382 - 393 2 --- R.ALVMKNKEEEER.Q
1436.7889 1435.7816 1435.7606 14.7
1435.7816 1435.7816 1435.7606 14.7 1 - 13 1 --- -.AAGTLEMLVRFGR.R + Oxi
1475.7633 1474.7560 1474.7449 7.53 382 - 393 2 --- R.ALVMKNKEEEER.Q
1657.7932 1656.7859 1656.7889 -1.80 313 - 325 2 --- K.EKEAETHRLMEER.R
1663.8466 1662.8393 1662.8802 -24.57 496 - 512 1 --- K.AVQEEPGGGGGPLVDR.G
1810.0303 1809.0230 1809.0049 9.99 270 - 283 2 --- R.RLFFEHLNDKHIIK.A
2096.0430 2095.0357 2095.0255 4.88 239 - 255 2 --- K.DAEEIKRQNSLYEIEMK.K
2140.0918 2139.0845 2139.0847 -0.10 459 - 476 2 --- R.LTEALVAEKEKEFQDYAR.E
2254.0896 2253.0823 2253.0947 -5.47 451 - 469 2 --- K.QAESEYCRLTEALVAEKEK.E
                                                                         451 - 469 2 --- K.QAESEYCRLTEALVAEKEK.E
20 - 41 1 --- K.ESAEMKNCEEDPVLYPPLLPTK.V + Oxidation (M)
2576.1628 2575.1555 2575.2186 -24.47 20 - 41
 No match to: 723.4098, 724.2417, 725.2533, 726.3622, 728.3046, 729.4749, 734.4570, 736.3904, 737.4152, 738.3791, 744.8651,
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 1450.7223, 1456.7717, 1462.6630, 1467.7329, 1470.7394, 1471.2693, 1471.7250, 1472.2531, 1474.5243, 1483.7141, 1488.5333, 1488.7194, 1493.7366, 1502.5601, 1513.7441, 1514.6849, 1516.6807, 1517.6437, 1518.7053, 1523.7611, 1526.7343, 1528.6973, 1530.6893, 1536.8230,
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 1732.2391, 1734.1844, 1739.7894, 1743.8966, 1755.2666, 1755.7703, 1757.4702, 1757.9089, 1758.4524, 1758.8987, 1761.9023, 1765.7578, 1768.8339, 1769.8287, 1770.3949, 1772.8273, 1773.8792, 1774.9180, 1774.9200, 1786.8268, 1787.8239, 1809.0499, 1829.8895, 1830.8380,
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O0VCY3
                 Mass: 40674
                                           Score: 14
                                                                      Expect: 9.6e+002 Matches: 17
 Surfeit locus protein 6 OS=Bos taurus GN=SURF6 PE=2 SV=1
  Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide
                                                                         292 - 297
                                          813.4681 -24.10
                                                                                                                R.RAOROR.A
  814.4558
                      813.4485
                                                                                                                R.LQARQAR.L
                     841.5038
                                          841.4882
                                                           18.5
                                                                          235 - 241
                                                                          59 - 66 2 --- R.ERKTAKPK.A
8 - 16 0 --- K.DAYLQGLAK.K
                     956.5701
                                         956.5767
                                                            -6.86
                                          977.5182 -15.80
                     977.5027
978.5146 977.5073 977.5182 -11.11 8 - 16 0 --- K.DAYLQGLAK.K 1123.5986 1122.5913 1122.6145 -20.66 116 - 124 1 --- R.HEKIQEAR.G 1172.6156 1171.6083 1171.6210 -10.82 293 - 301 2 --- R.AQRQRAWEK.R 1229.7098 1228.7025 1228.6775 20.4 62 - 73 1 --- K.TAKPKAQASAEK.S
1270.6675 1269.6502 1269.6612 -8.64 303 - 313 1 --- R.TAHVYGKMQQR.Q + Oxidation (M) 1400.6683 1399.6610 1399.6878 -19.11 18 - 29 1 --- K.ICSQPSAEPQKR.K
1490.0083 1399.0010 1399.08/8 -19.11 18 - 29 1 --- K.ICSQPSAEPQKR.K
1444.7122 1443.7049 1443.7358 -21.36 182 - 194 0 --- R.EEAQAQPGLLFNK.V
1462.6630 1461.6557 1461.6882 -22.19 249 - 261 1 --- R.DAGQAQELEAKMR.W + Oxidation (M)
1599.8337 1598.8264 1598.7900 22.8 195 - 208 1 --- K.VEVTEEPANKAQR.R
1695.8208 1694.8135 1694.8475 -20.05 166 - 181 0 --- K.ALEGAEATEPDLQVPR.E
1718.8790 1717.8717 1717.8482 13.7 78 - 93 1 --- R.FEVAKEEEGATSSTR.V
1722.9375 1721.9302 1721.9386 -4.84 1 - 16 1 --- -- MTSLLAKDAYLOGLAK.K
                                                                             1 - 16 1 ---
1722.9375 1721.9302 1721.9386
                                                            -4.84
                                                                                                                -.MTSLLAKDAYLOGLAK.K
2223.1582 2222.1509 2222.1542 -1.48 161 - 181 2 --- K.EKAAKALEGAEATEPDLQVPR.E

No match to: 716.4763, 723.4098, 724.2417, 725.2533, 726.3622, 728.3046, 729.4749, 734.4570, 736.3904, 737.4152, 738.3791,
   44.8651, 745.3838, 747.4550, 768.3673, 788.4571, 801.4262, 805.4606, 813.4481, 820.4053, 823.4778, 829.4589, 830.4522, 839.3830,
 857.4382, 860.4207, 865.4518, 870.4165, 872.5054, 880.4424, 882.4292, 887.4245, 887.9669, 888.4561, 891.4898, 894.4144, 894.8973, 897.5006, 898.4523, 912.5132, 913.5293, 925.4620, 927.4981, 931.4992, 934.5098, 960.5294, 961.4949, 963.4734, 965.4692, 970.5181,
 972.4899, 975.5167, 976.5063, 977.5212, 983.6283, 992.4958, 993.5046, 995.4181, 998.5911, 1000.5959, 1002.5007, 1006.5014, 1011.5474, 1012.5447, 1014.5485, 1020.5577, 1021.5699, 1024.5516, 1027.5438, 1028.5397, 1030.5978, 1032.5238, 1036.5260, 1037.5405, 1039.5641, 1040.5908, 1042.5388, 1043.5178, 1045.5568, 1046.6018, 1056.5515, 1057.6100, 1057.6107, 1061.6168, 1074.6073, 1074.6100,
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  1193.6041, 1206.5107, 1209.5889, 1211.6099, 1212.6160, 1215.6743, 1216.7081, 1219.6886, 1227.6234, 1234.6414, 1240.5974, 1242.6003,
  1243.6161, 1253.6216, 1255.5972, 1255.6000, 1260.6227, 1264.7130, 1265.7064, 1269.6498, 1273.6556, 1277.6305, 1286.6099, 1289.6875, 1293.6401, 1303.6455, 1304.6677, 1307.6788, 1309.6780, 1318.6750, 1319.6589, 1328.6600, 1328.6620, 1331.7888, 1333.7644, 1336.0798,
  1336.6155, 1350.6853, 1351.7202, 1356.5811, 1359.1302, 1359.6246, 1365.6489, 1374.7588, 1383.7037, 1390.6974, 1393.7992, 1401.6989, 1414.8191, 1429.3142, 1436.7889, 1445.7839, 1450.7223, 1456.7717, 1467.7329, 1470.7394, 1471.2693, 1471.7250, 1472.2531, 1474.5243,
  1475.7633, 1483.7141, 1488.5333, 1488.7194, 1493.7366, 1502.5601, 1513.7441, 1514.6849, 1516.6807, 1517.6437, 1518.7053, 1523.7611, 1526.7343, 1528.6973, 1530.6893, 1536.8230, 1540.7114, 1551.7063, 1553.7252, 1554.7474, 1557.6992, 1558.7140, 1563.6658, 1564.3619,
  1565.7223, 1566.7162, 1572.7062, 1580.8400, 1580.8423, 1586.8090, 1597.7913, 1601.8030, 1614.8046, 1616.7968, 1628.7136, 1630.8103,
  1635.7697, 1642.7682, 1643.7688, 1644.7915, 1646.8154, 1651.7681, 1657.7932, 1663.8466, 1664.8557, 1666.7545, 1707.8933, 1721.9192, 1728.8976, 1730.9116, 1732.2391, 1734.1844, 1739.7894, 1743.8966, 1755.2666, 1755.7703, 1757.4702, 1757.9089, 1758.4524, 1758.8987,
  1761.9023, 1765.7578, 1768.8339, 1769.8287, 1770.3949, 1772.8273, 1773.8792, 1774.9180, 1774.9200, 1786.8268, 1787.8239, 1809.0499, 1810.0303, 1829.8895, 1830.8380, 1833.3470, 1833.8501, 1851.8885, 1852.0399, 1862.9515, 1881.7703, 1895.9634, 1906.8195, 1908.8512,
  1920.7972, 1932.0050, 1936.9479, 1939.8563, 1940.8103, 1943.8293, 1954.8351, 1956.8574, 1958.8956, 1965.7998, 1967.9565, 1969.9998, 1979.8927, 1981.3531, 1982.8179, 1995.8232, 1997.8312, 2003.8595, 2008.9971, 2011.8464, 2015.9408, 2019.8779, 2025.8735, 2031.9606,
  2047.9397, 2062.9578, 2067.0020, 2076.8943, 2081.9827, 2082.9966, 2087.0103, 2088.1108, 2089.1162, 2096.0430, 2097.0200, 2108.9771, 2110.0061, 2139.0991, 2140.0918, 2143.1006, 2144.0718, 2149.8516, 2160.0554, 2174.0378, 2178.0471, 2179.0574, 2188.0547, 2191.0457,
  2198.1831, 2199.1499, 2203.0386, 2211.1052, 2225.1470, 2227.1042, 2228.0725, 2238.1086, 2239.1538, 2243.1243, 2244.0684, 2254.0896, 2255.1482, 2260.0779, 2270.2183, 2272.1736, 2284.1841, 2287.1108, 2307.0549, 2309.0659, 2310.0798, 2310.5271, 2311.0454, 2319.0945, 2337.6050, 2341.5510, 2353.0518, 2354.0767, 2355.0564, 2371.0581, 2383.9592, 2388.0437, 2392.1462, 2404.0471, 2412.0872, 2419.5879,
  2420.0864, 2420.5930, 2423.2439, 2426.5667, 2427.1211, 2438.1724, 2455.1553, 2458.1648, 2459.1794, 2478.1587, 2516.1133, 2533.1262, 2542.1650, 2546.1746, 2549.1316, 2550.1252, 2559.1470, 2561.1729, 2562.1765, 2567.1514, 2572.1523, 2574.2678, 2576.1628, 2583.1218,
  2587.2722, 2604.1682, 2612.1438, 2653.7173, 2655.1897, 2671.1787, 2687.1833, 2701.2820, 2706.2766, 2712.2104, 2714.2156, 2717.2725, 2725.2354, 2729.1675, 2739.2351, 2743.2642, 2745.2900, 2754.2197, 2755.2358, 2759.2573, 2769.2219, 2771.2437, 2776.2644,
   2785.2388, 2786.2617, 2787.2400, 2793.2439, 2801.2378, 2803.2302, 2809.2549, 2815.2153, 2817.2322, 2819.2236, 2830.2788, 2833.2280,
  2836.2397, 2862.2927, 2873.2961, 2889.2024, 2894.3218, 2927.2520, 2931.3428, 2955.3005, 2974.4124, 2975.4084, 2990.3921, 3006.3206, 3011.2810, 3020.3557, 3021.2412, 3035.3281, 3053.3447, 3062.2456, 3086.4507, 3091.2622, 3103.3140, 3110.7285, 3113.8591, 3130.3557,
  3140.4265, 3144.3657, 3159.4985, 3173.5386, 3174.5486, 3185.4236, 3218.3301, 3259.3625, 3312.3267, 3331.4678, 3347.4761, 3363.4788, 3390.4675, 3431.4570, 3447.4666, 3463.4895, 3485.6985, 3488.6545, 3489.6521, 3493.0195, 3494.5571, 3504.6423, 3509.5613, 3525.6025, 3538.4521, 3553.6230, 3579.5403, 3648.1956, 3655.4729, 3664.7500, 3695.6177, 3712.5720, 3738.5837, 3816.7043, 3937.8308, 4010.8696
                    Mass: 23102
                                                         Score: 14
                                                                                         Expect: 9.9e+002 Matches: 9
Uncharacterized protein OS=Bos tarus PE=4 SV=1

Observed Mr(expt) Mr(calc) ppm Start End Miss Ions
1234.6414 1233.6341 1233.6070 22.0 25 - 36 2 ---- R.MAGAMPARGGKR.R + 2 Oxidation (M)
1666.7545 1665.7472 1665.7479 -16.62 286.0694 14.9 69 - 88 0 ---- K.MTQYITELSDMVPTCSALAR.K
12319.0945 2318.0872 2318.0592 12.1 69 - 88 0 ---- K.MTQYITELSDMVPTCSALAR.K + 2 Oxidation (M)
1701.2820 2700.2747 2700.3033 -10.59 66 - 88 2 ---- R.RNKMTQYITELSDMVPTCSALAR.K + 2 Oxidation (M)
1701.2820 2700.2747 2700.3033 -10.59 66 - 88 2 ---- R.RNKMTQYITELSDMVPTCSALAR.K + 2 Oxidation (M)
1701.2725 2716.2652 2716.2982 -12.15 66 - 88 2 ---- R.RNKMTQYITELSDMVPTCSALAR.K + 2 Oxidation (M)
1701.2725 2716.2652 2716.2982 -12.15 66 - 88 2 ---- R.RNKMTQYITELSDMVPTCSALAR.K + 2 Oxidation (M)
1701.2725 2716.2652 2716.2982 -12.15 66 - 88 2 ---- R.RNKMTQYITELSDMVPTCSALAR.K + 2 Oxidation (M)
1701.2725 2716.2652 2716.2982 -12.15 66 - 88 2 ---- R.RNKMTQYITELSDMVPTCSALAR.K + 2 Oxidation (M)
1701.2725 2716.2652 2716.2982 -12.15 66 - 88 2 ---- R.RNKMTQYITELSDMVPTCSALAR.K + 2 Oxidation (M)
1701.2725 2716.2652 2716.2982 -12.15 66 - 88 2 ---- R.RNKMTQYITELSDMVPTCSALAR.K + 2 Oxidation (M)
1701.2725 2716.2652 2716.2982 -12.15 66 - 88 2 ---- R.RNKMTQYITELSDMVPTCSALAR.K + 2 Oxidation (M)
1701.2725 2716.2652 2716.2982 -12.15 66 - 88 2 ---- R.RNKMTQYITELSDMVPTCSALAR.K + 2 Oxidation (M)
1701.2725 2716.2652 2716.2982 -12.15 66 - 88 2 ---- R.RNKMTQYITELSDMVPTCSALAR.K + 2 Oxidation (M)
1701.2725 2716.2652 2716.2982 -12.15 66 - 88 2 ---- R.RNKMTQYITELSDMVPTCSALAR.K + 2 Oxidation (M)
1701.2725 2716.2652 2716.2982 -12.15 66 - 88 2 ---- R.RNKMTQYITELSDMVPTCSALAR.K + 2 Oxidation (M)
1701.2725 2716.2652 2716.2982 -12.15 66 - 88 2 ---- R.RNKMTQYITELSDMVPTCSALAR.K + 2 Oxidation (M)
1701.2725 2716.2652 2716.2982 -12.15 66 - 88 2 ---- R.RNKMTQYITELSDMVPTCSALAR.K + 2 Oxidation (M)
1701.2725 2716.2982 -12.15 66 - 88 2 ---- R.RNKMTQYITELSDMVPTCSALAR.K + 2 Oxidation (M)
1701.2725 2716.2982 -12.15 66 - 88 2 ---- R.RNKMTQYITELSDMVPTCSALAR.K + 2 Oxidation (M)
1701.2725 2716.2982 -12.15 66 -
  Uncharacterized protein OS=Bos taurus PE=4 SV=1
  894.4144, 894.8973, 897.5006, 898.4523, 912.5132, 913.5293, 925.4620, 927.4981, 931.4992, 934.5098, 957.5774, 960.5294, 961.4949, 963.4734, 965.4692, 970.5181, 972.4899, 975.5167, 976.5063, 977.5212, 978.5100, 978.5146, 983.6283, 992.4958, 993.5046, 995.4181,
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  1057.6107, 1061.6168, 1074.6073, 1074.6100, 1076.6123, 1102.6007, 1103.6257, 1105.6136, 1107.1058, 1113.5486, 1120.5498, 1122.5322, 1123.5986, 1128.5724, 1129.5924, 1134.3574, 1137.5463, 1145.6348, 1149.6057, 1153.6460, 1156.4957, 1161.6295, 1162.6174, 1164.1815, 1170.5497, 1172.6156, 1177.6410, 1180.6428, 1184.6412, 1188.5603, 1193.6041, 1206.5107, 1209.5889, 1211.6099, 1212.6160, 1215.6743,
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  1318.6750, 1319.6589, 1328.6600, 1328.6620, 1331.7888, 1333.7644, 1336.0798, 1336.6155, 1350.6853, 1351.7202, 1356.5811, 1359.1302, 1359.6246, 1365.6489, 1374.7588, 1383.7037, 1390.6974, 1393.7992, 1400.6683, 1401.6989, 1414.8191, 1429.3142, 1436.7889, 1444.7122,
  1445.7839, 1450.7223, 1456.7717, 1462.6630, 1467.7329, 1470.7394, 1471.7250, 1472.2531, 1474.5243, 1475.7633, 1483.7141, 1488.5333, 1488.7194, 1493.7366, 1502.5601, 1513.7441, 1514.6849, 1516.6807, 1517.6437, 1518.7053, 1523.7611, 1526.7343, 1528.6973, 1530.6893, 1536.8230, 1540.7114, 1551.7063, 1553.7252, 1554.7474, 1557.6992, 1558.7140, 1563.6658, 1564.3619, 1565.7223, 1566.7162,
  1572.7062, 1580.8400, 1580.8423, 1586.8090, 1597.7913, 1599.8337, 1601.8030, 1614.8046, 1616.7968, 1628.7136, 1630.8103, 1635.7697, 1642.7682, 1643.7688, 1644.7915, 1646.8154, 1651.7681, 1657.7932, 1663.8466, 1664.8557, 1695.8208, 1707.8933, 1718.8790, 1721.9192,
   1722.9375, 1728.8976, 1730.9116, 1732.2391, 1734.1844, 1739.7894, 1743.8966, 1755.2666, 1755.7703, 1757.4702, 1757.9089, 1758.4524,
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  2031.9606, 2047.9397, 2062.9578, 2067.0020, 2076.8943, 2081.9827, 2082.9966, 2087.0103, 2088.1108, 2089.1162, 2096.0430, 2097.0200, 2108.9771, 2110.0061, 2139.0991, 2140.0918, 2143.1006, 2144.0718, 2149.8516, 2160.0554, 2174.0378, 2178.0471, 2179.0574, 2188.0547,
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  2604.1682, 2612.1438, 2653.7173, 2655.1897, 2671.1787, 2687.1833, 2706.2766, 2712.2104, 2714.2156, 2716.1953, 2725.2354, 2729.1675, 2739.2351, 2743.2642, 2754.2197, 2755.2358, 2759.2573, 2769.2219, 2771.2437, 2776.2644, 2785.2388, 2786.2617, 2787.2400, 2793.2439,
  2801.2378, 2803.2302, 2809.2549, 2815.2153, 2817.2322, 2819.2236, 2830.2788, 2833.2280, 2836.2397, 2862.2927, 2873.2961, 2889.2024, 2894.3218, 2927.2520, 2931.3428, 2955.3005, 2974.4124, 2975.4084, 2990.3921, 3006.3206, 3011.2810, 3020.3557, 3021.2412, 3035.3281,
  3053.3447, 3062.2456, 3086.4507, 3091.2622, 3103.3140, 3110.7285, 3113.8591, 3130.3557, 3140.4265, 3144.3657, 3159.4985, 3173.5386,
  3174.5486, 3185.4236, 3218.3301, 3259.3625, 3312.3267, 3331.4678, 3347.4761, 3363.4788, 3390.4675, 3431.4570, 3447.4666, 3463.4895, 3485.6985, 3488.6545, 3493.0195, 3494.5571, 3504.6423, 3509.5613, 3525.6025, 3538.4521, 3553.6230, 3579.5403, 3648.1956, 3655.4729,
  3664.7500, 3695.6177, 3712.5720, 3738.5837, 3816.7043, 3937.8308, 4010.8696
                      Mass: 42579
                                                           Score: 14
                                                                                            Expect: 9.9e+002 Matches: 15
  Caspase-15 OS=Bos taurus GN=LOC515736 PE=2 SV=1

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss
        Ions
        Peptide

        860.4207
        859.4134
        859.4287
        -17.73
        195 - 201
        0
        ---
        R.DELNEIK.D

 1012.5447 1011.5374 1011.5245 12.7 145 - 152 1 --- K.AFLMCVKK.N 1020.5577 1019.5504 1019.5586 -8.03 251 - 258 0 --- K.IFIIQACR.G
                                                                                                                                                 K.AFIMCVKK.N + Oxidation (M)
1020.5577 1019.5504 1019.5506 -8.03 251 - 258 0 --- K.IFITQACR.G
1030.5978 1029.5905 1029.5719 18.0 47 - 54 2 --- R.SFRDHLKK.V
1234.6414 1233.6341 1233.6176 13.4 344 - 353 0 --- R.DFNLCNKPVK.V
1260.6227 1259.6154 1259.6357 -16.12 22 - 32 0 --- K.ISPTTEELQSR.L
1526.7343 1525.7270 1525.7348 -5.07 108 - 120 0 --- R.WQSAPTDCPVIPR.K
1599.8337 1598.8264 1598.8048 13.5 308 - 321 1 --- R.TGSVMIKEMTEVFK.Q
1967.9565 1966.9492 1966.9856 -18.50 305 - 321 2 --- R.DPRTGSVMIKEMTEVFK.Q
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2087.0103 2086.0030 2085.9862 8.08 1 - 21 2 --- -.MEGSLGSGRRSGSDGQPAPPK.I + Oxidation (M)
2199.1499 2198.1426 2198.0976 20.5 155 - 172 2 --- R.LGAHQDVQLMKDWLKECK.F
2223.1582 2222.1509 2222.1021 22.0 322 - 339 1 --- K.QYGNKWHLADFFTIVNNR.V
2423.2439 2422.2366 2422.2600 -9.65 344 - 364 1 --- R.DFNLCNKPVKVSLVMESTLTK.F
2438.1724 2437.1651 2437.2197 -22.40 10 - 32 2 --- R.RSGSDGQPAPPKISPTTEELQSR.L
2572.1523 2571.1450 2571.1478 -1.07 202 - 223 1 --- K.DDIGCCLVTLMSHGEEGFIKMK.D + 2 Oxidation (M)
 No match to: 716.4763, 723.4098, 724.2417, 725.2533, 726.3622, 728.3046, 729.4749, 734.4570, 736.3904, 737.4152, 738.3791, 744.8651, 745.3838, 747.4550, 768.3673, 788.4571, 801.4262, 805.4606, 813.4481, 814.4558, 820.4053, 823.4778, 829.4589, 830.4522, 839.3830, 842.5110, 857.4382, 865.4518, 870.4165, 872.5054, 880.4424, 882.4292, 887.4245, 887.9669, 888.4561, 891.4898, 894.4144,
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  1240.5974, 1242.6003, 1243.6161, 1253.6216, 1255.5972, 1255.6000, 1264.7130, 1265.7064, 1269.6498, 1270.6575, 1273.6556, 1277.6305, 1286.6099, 1289.6875, 1293.6401, 1303.6455, 1304.6677, 1307.6788, 1309.6780, 1318.6750, 1319.6589, 1328.6600, 1328.6620, 1331.7888,
  1333.7644, 1336.0798, 1336.6155, 1350.6853, 1351.7202, 1356.5811, 1359.1302, 1359.6246, 1365.6489, 1374.7588, 1383.7037, 1390.6974
  1393.7992, 1400.6683, 1401.6989, 1414.8191, 1429.3142, 1436.7889, 1444.7122, 1445.7839, 1450.7223, 1456.7717, 1462.6630, 1467.7329, 1470.7394, 1471.2693, 1471.7250, 1472.2531, 1474.5243, 1475.7633, 1483.7141, 1488.5333, 1488.7194, 1493.7366, 1502.5601, 1513.7441,
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  1614.8046, 1616.7968, 1628.7136, 1630.8103, 1635.7697, 1642.7682, 1643.7688, 1644.7915, 1646.8154, 1651.7681, 1657.7932, 1663.8466, 1664.8557, 1666.7545, 1695.8208, 1707.8933, 1718.8790, 1721.9192, 1722.9375, 1728.8976, 1730.9116, 1732.2391, 1734.1844, 1739.7894,
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  1851.8885, 1852.0399, 1862.9515, 1881.7703, 1895.9634, 1906.8195, 1908.8512, 1920.7972, 1932.0050, 1936.9479, 1939.8563, 1940.8103,
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  2088.1108, 2089.1162, 2096.0430, 2097.0200, 2108.9771, 2110.0061, 2139.0991, 2140.0918, 2143.1006, 2144.0718, 2149.8516, 2160.0554, 2174.0378, 2178.0471, 2179.0574, 2188.0547, 2191.0457, 2198.1831, 2203.0386, 2211.1052, 2225.1470, 2227.1042, 2228.0725, 2238.1086,
  239.1538, 2243.1243, 2244.0684, 2254.0886, 2255.1482, 2260.0779, 2270.2183, 2272.1736, 2284.1841, 2287.1108, 2307.0549, 2309.0659, 2310.0798, 2310.5271, 2311.0454, 2319.0945, 2337.6050, 2341.5510, 2353.0518, 2354.0767, 2355.0564, 2371.0581, 2383.9592, 2388.0437, 2392.1462, 2404.0471, 2412.0872, 2419.5879, 2420.0864, 2420.5930, 2426.5667, 2427.1211, 2455.1553, 2458.1648, 2459.1794, 2478.1587,
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  2833.2280, 2836.2397, 2862.2927, 2873.2961, 2889.2024, 2894.3218, 2927.2520, 2931.3428, 2955.3005, 2974.4124, 2975.4084, 2990.3921,
  3006.3206, 3011.2810, 3020.3557, 3021.2412, 3035.3281, 3053.3447, 3062.2456, 3086.4507, 3091.2622, 3103.3140, 3110.7285, 3113.8591, 3130.3557, 3140.4265, 3144.3657, 3159.4985, 3173.5386, 3174.5486, 3185.4236, 3218.3301, 3259.3625, 3312.3267, 3331.4678, 3347.4761,
  3363.4788, 3390.4675, 3431.4570, 3447.4666, 3463.4895, 3485.6985, 3488.6545, 3489.6521, 3493.0195, 3494.5571, 3504.6423, 3509.5613, 3525.6025, 3538.4521, 3553.6230, 3579.5403, 3648.1956, 3655.4729, 3664.7500, 3695.6177, 3712.5720, 3738.5837, 3816.7043, 3937.8308,
  4010.8696
 E1BDX9 Mass: 40138 Score: 14
                                                                                         Expect: 9.9e+002 Matches: 16
  Uncharacterized protein OS=Bos taurus GN=FAM50A PE=4 SV=1

        Observed
        Mr(expt)
        Mr(calc)
        ppm
        Start
        End Miss Ions
        Peptide

        734.4570
        733.4497
        733.4520
        -3.16
        214 - 219
        2 ---
        R.TVKMKK.G

        963.4734
        962.4661
        962.4742
        -8.45
        35 - 42
        0 ---
        R.IAEENIMK.S + Oxidation (M)

963.4734 962.4661 962.4742 -8.45 35 - 42 0 --- R.IABENIMK.S + Oxidation (M)
975.5167 974.5094 974.5284 -19.46 290 - 298 0 --- R.LLSDATVEK.D
1000.5959 999.5886 999.5964 -7.78 96 - 103 1 --- K.ELQLKLEK.L
1014.5485 1013.5412 1013.5626 -21.11 14 - 21 2 --- R.AMHLMKKR.E
1102.6007 1101.5934 1101.6030 -8.65 92 - 100 1 --- K.EQSKELQLK.L
1229.7098 1228.7025 1228.6775 20.4 77 - 86 2 --- K.QEALVKEREK.Q
1586.8090 1585.8017 1585.8212 -12.28 179 - 190 2 --- R.LREELRQEWEAK.Q
1597.7913 1596.7840 1596.8116 -17.27 217 - 229 2 --- K.MKKGNIMQOFLQK.A + Oxidation (M)
1601.8030 1600.7957 1600.7804 9.55 173 - 184 2 --- R.EEEENRLEELR.Q
1646.8154 1645.8081 1645.7696 23.4 159 - 172 1 --- K.NPDVDTSFLPDRDR.E
2067.0020 2065.9947 2065.99859 4.26 1 - 19 2 --- - -- MAQYKGAASEAGRAMHLMK.K + Oxidation (M)
2082.9966 2081.9893 2081.9808 4.08 1 - 19 2 --- -- -- MAQYKGAASEAGRAMHLMK.K + 2 Oxidation (M)
2211.1052 2210.0979 2210.1160 -8.20 254 - 271 0 --- K.EDLITPHHSFYDFIVTK.A
2254.0896 2253.0823 2253.0702 5.39 194 - 212 1 --- K.SGEPLETSYWDGSGHR.R
2574.2678 2573.2605 2573.2762 -6.09 276 - 298 1 --- K.SGEPLETDYDVDDVRLLSDATVEK.D
No match to: 716.4763, 723.4098, 724.2417, 725.2533, 726.3622, 728.3046, 729.4749, 736.3904, 737.4152, 7
 25/3.2605 25/3.2605 25/3.2602 -6.09 2/6 - 298 1 --- R.SGPLENFIDVENDURLISDATVER.D

No match to: 716.4763, 723.4098, 724.2417, 725.2533, 726.3622, 728.3046, 729.4749, 736.3904, 737.4152, 738.3791, 744.8651,

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  1149.6057, 1153.6460, 1156.4957, 1161.6295, 1162.6174, 1164.1815, 1170.5497, 1172.6156, 1177.6410, 1180.6428, 1184.6412, 1188.5603, 1193.6041, 1206.5107, 1209.5889, 1211.6099, 1212.6160, 1215.6743, 1216.7081, 1219.6886, 1227.6234, 1234.6414, 1240.5974, 1242.6003,
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  1757.4702, 1757.9089, 1758.4524, 1758.8987, 1761.9023, 1765.7578, 1768.8339, 1769.8287, 1770.3949, 1772.8273, 1773.8792, 1774.9180, 1774.9200, 1786.8268, 1787.8239, 1809.0499, 1810.0303, 1829.8895, 1830.8380, 1833.3470, 1833.8501, 1851.8885, 1852.0399, 1862.9515,
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2717.2725, 2725.2354, 2729.1675, 2739.2351, 2743.2642, 2745.2900, 2754.2197, 2755.2358, 2759.2573, 2769.2219, 2771.2437, 2776.2644, 2785.2388, 2786.2617, 2787.2400, 2793.2439, 2801.2378, 2803.2302, 2809.2549, 2815.2153, 2817.2322, 2819.2236, 2830.2788, 2833.2280,
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                                                     Score: 14
                                                                                   Expect: 1e+003 Matches: 9
  ADP-ribosylation factor 2 OS=Bos taurus GN=ARF2 PE=2 SV=1
  Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss Ions
        Peptide

        992.4958
        991.4885
        991.4844
        24.3
        110 - 117 0 ---
        R.MLAEDELR.D + Oxidation (M)

        1103.6257
        1102.6184
        1102.6056
        11.6
        20 - 30 0 ---
        R.ILMVGLDAAGK.T + Oxidation (M)

        1212.6160
        1211.6087
        1211.6373
        -23.55
        1 - 10 1 ---
        -.MGNVFEKLFK.S

        1565.7223
        1564.7150
        1564.7522 -23.76
        60 - 73 0 ---
        K.NISFTVWDVGGQDK.I

        1633.8103
        1629.8030
        1629.8768
        22.2
        128 - 142 0 ---
        K.QDLPNAMNAAEITDK.L

        1663.8466
        1662.8393
        1662.8797 - 24.26
        16 - 30 2 ---
        K.KEMRILMVGLDAAGK.T + 2 Oxidation (M)

        2174.0378
        2173.0305
        2173.0797 - 22.61
        100 - 117 2 ---
        R.VNEAREELTRMLAEDELR.D

        2423.2439
        2422.2366
        2422.2274
        3.80
        128 - 149 1 ---
        K.QDLPNAMNAAEITDKLGLHSLR.Q + Oxidation (M)

        2433.1724
        2437.1651
        2437.1775 - 5.07
        80 - 99 1 ---
        R.HYFQNTQGLIFVVDSNDRER.V

  No match to: 716.4763, 723.4098, 724.2417, 725.2533, 726.3622, 728.3046, 729.4749, 734.4570, 736.3904, 737.4152, 738.3791,
  744.8651, 745.3838, 747.4550, 768.3673, 788.4571, 801.4262, 805.4606, 813.4481, 814.4558, 820.4053, 823.4778, 829.4589, 830.4522, 839.3830, 842.5110, 857.4382, 860.4207, 865.4518, 870.4165, 872.5054, 880.4424, 882.4292, 887.4245, 887.9669, 888.4561, 891.4898,
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   1000.5959, 1002.5007, 1006.5014, 1011.5474, 1012.5447, 1014.5485, 1020.5577, 1021.5699, 1024.5516, 1027.5438, 1028.5397, 1030.5978,
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  3664.7500, 3695.6177, 3712.5720, 3738.5837, 3816.7043, 3937.8308, 4010.8696
                                                                                     Expect: 1e+003 Matches: 7
 F1MNB0 Mass: 17016 Score: 14
  Cystatin OS=Bos taurus GN=CST8 PE=3 SV=2
Cystatin OS=Bos taurus GN=CST8 PE=3 SV=2

Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide

976.5063 975.4990 975.4808 18.7 77 - 84 0 ---- R.VQMQVTDR.L

992.4958 991.4885 991.4757 12.9 77 - 84 0 ---- R.VQMQVTDR.L + Oxidation (M)

1401.6989 1400.6916 1400.7082 -11.82 100 - 111 1 ---- R.VQMQVTDR.L + Oxidation (M)

2561.1729 2560.1656 2560.1888 -9.05 120 - 140 1 ---- R.VQMCTEVGALPWHGYFTVMKK.Q

2717.2725 2716.2652 2716.2899 -9.09 119 - 140 2 ---- K.RQMCTECVGALPWHGYFTVMKK.Q

2975.4084 2974.4011 2974.4115 -3.48 116 - 139 2 ---- K.LEKRQMCTECVGALPWHGYFTVMK.K + Oxidation (M)

3493.0195 3492.0122 3491.9868 7.28 2 - 33 2 --- K.LEKRQMCTECVGALPWHGYFTVMK.K + Oxidation (M)

No match to: 716.4763, 723.4098, 724.2417, 725.2533, 726.3622, 728.3046, 729.4749, 734.4570, 736.3904, 737.4152, 738.3791, 744.8651, 745.3838, 747.4550, 768.3673, 788.4571, 801.4262, 805.4606, 813.4481, 814.4558, 820.4053, 823.4778, 829.4589, 830.4522, 839.3830, 842.5110, 857.4382, 860.4207, 865.4518, 870.4165, 872.5054, 880.4424, 882.4292, 887.4245, 887.9669, 888.4561, 891.4898, 894.4144, 894.8973, 897.5006, 898.4523, 912.5132, 913.5293, 925.4620, 927.4981, 931.4992, 934.5098, 957.5774, 960.5294, 961.4949, 963.4734, 965.4692, 970.5181, 972.4899, 975.5167, 977.5212, 978.5100, 978.5146, 983.6283, 993.5046, 995.4181, 998.5991, 1000.55979, 1002.5007, 1006.5014, 1011.5474, 1012.5447, 1014.5485, 1020.5577, 1021.5699, 1024.5516, 1027.5438, 1028.5397, 1030.55978, 1032.5238
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  3648.1956, 3655.4729, 3664.7500, 3695.6177, 3712.5720, 3738.5837, 3816.7043, 3937.8308, 4010.8696
 038759
                      Mass: 12718
                                                                 Score: 14
                                                                                                         Expect: 1e+003 Matches: 7
  60S ribosomal protein L36a OS=Bos taurus GN=RPL36A PE=3 SV=3

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss
        Ions
        Peptide

        737.4152
        736.4079
        736.3980
        13.4
        40 - 44
        2 ---
        R.RYDRK.Q

        747.4550
        746.4477
        746.4473
        0.58
        82 - 87
        1 ---
        R.MLAIKR.G

                                                                                                               82 - 87
                                746.4477
                                                                                                                                                                    R.MLAIKR.C + Oxidation (M)
 960.5294 959.5221 959.5222 -0.15 1 - 8 1 --- K.MLAIRK.C + Oxidation (M)
1037.5405 1036.5332 1036.5301 2.98 31 - 39 1 --- K.DSLYAGGKR.R
1265.7064 1264.6691 1264.6676 24.9 18 - 27 1 --- K.DSLYAGGKR.R
1318.6750 1317.6677 1317.6499 13.5 88 - 98 2 --- K.HQPHKVTQYK.K
1393.7992 1392.7919 1392.7626 21.1 18 - 28 2 --- K.HQPHKVTQYKK.G
  No match to: 716.4763, 723.4098, 724.2417, 725.2533, 726.3622, 728.3046, 729.4749, 734.4570, 736.3904, 738.3791, 744.8651, 745.3838, 768.3673, 788.4571, 801.4262, 805.4606, 813.4481, 814.4558, 820.4053, 823.4778, 829.4589, 830.4522, 839.3830, 842.5110,
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   2889.2024, 2894.3218, 2927.2520, 2931.3428, 2955.3005, 2974.4124, 2975.4084, 2990.3921, 3006.3206, 3011.2810, 3020.3557, 3021.2412,
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                                                                  Score: 14
                                                                                                        Expect: 1e+003 Matches: 28
                         Mass: 73163
  Centrosomal protein of 290 kDa OS=Bos taurus GN=CEP290 PE=4 SV=1

        Centrosomal protein of 250 kbs o
830.4522 829.4449 829.4545 -11.55 35 - 41 0 --- K.VEVNELK.S

1074.6073 1073.6000 1073.5968 2.99 432 - 440 1 --- K.DKELVETIK.R

1074.6100 1073.6027 1073.5968 5.50 432 - 440 1 --- K.DKELVETIK.R

1102.6007 1101.5934 1101.6030 -8.66 470 - 478 1 --- R.DREIEVLIK.E

1303.6455 1302.6382 1302.6415 -2.52 420 - 431 1 --- R.TAELAEADAREK.D

1304.6677 1303.6604 1303.6554 3.86 225 - 234 1 --- K.VEWKLILSSK.D

1331.7888 1330.7815 1330.7496 24.0 303 - 313 1 --- K.VEWKLILSSK.D

1444.7122 1443.7049 1443.6850 13.8 583 - 594 2 --- R.MGERKSDFMSLK.N + Oxidation (M)

1493.7366 1492.7293 1492.7456 -10.93 390 - 402 1 --- K.GASTLTORTHYMK.I

1516.6807 1515.6734 1515.6875 -9.28 289 - 302 0 --- K.NEEDDPIMAAVNAK.V

1540.7114 1539.7041 1539.7277 -15.33 191 - 203 2 --- R.RGEDSDYRSQLSK.K

1657.7932 1656.7859 1656.7555 20.1 94 - 108 0 --- K.LENELEMAQRSAGGR.D + Oxidation (M)

1730.9116 1729.9043 1760.8866 4.80 61 - 75 1 --- K.MKAQEVELALEEVEK.A + Oxidation (M)
1730.916 1729.9043 1729.9097 -3.12 535 - 548 2 --- K.EIESLEEERLDLKK.K
1761.9023 1760.8950 1760.8866 4.80 61 - 75 1 --- K.MKAQEVELALEEVEK.A + Oxidation (M)
1769.8287 1768.8214 1768.8376 -9.12 501 - 515 0 --- R.MGLEPTTMIDLTEFR.N + Oxidation (M)
1932.0050 1930.9977 1931.0000 -1.15 483 - 498 1 --- K.LELKINDFLDENEALR.E
2015.9408 2014.9335 2014.9564 -11.36 91 - 108 1 --- K.VMKLENELEMAQHSAGGR.D + Oxidation (M)
2031.9606 2030.9533 2030.9513 0.98 91 - 108 1 --- K.VMKLENELEMAQHSAGGR.D + 2 Oxidation (M)
2087.0103 2086.0030 2085.9926 4.99 144 - 161 1 --- K.VNEQLALRNEEAENBK.L
 2097.0200 2096.0127 2096.0282 -7.38 501 - 518 1 --- R.MGLEPTTMIDLTEFRNIK.S
2188.0547 2187.0474 2187.0154 14.7 289 - 307 1 --- K.NEEDDPIMAAVNAKVEEWK.L
                                                                                                              354 - 373 2 --- R.DSQIKMLTEQVEQYTKEMEK.N
61 - 82 2 --- K.MKAQEVELALEEVEKAGEEQAK.F
 2458.1648 2457.1575 2457.1767 -7.80
 2459.1794 2458.1721 2458.2260 -21.93
                                                                                                              255 - 275 2 ---
246 - 268 2 ---
 2561 1729 2560 1656 2560 1798 -5 55
                                                                                                                                                                        K AVVHOTDSMMDOLKKENDHYR L + Oxidation (M)
 2771.2437 2770.2364 2770.2547
                                                                                          -6.58
                                                                                                                                                                      K.MTDEYNRMKAVVHOTDSMMDOLK.K
 2787.2400 2786.2327 2786.2496 -6.05 246 - 268 2 --- K.MTDEYNRMKAVVHOTDSMMDDLK.K + Oxidation (M)
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2803.2302 2802.2229 2802.2445 -7.70 246 - 268 2 --- K.MTDEYNRMKAVVHQTDSMMDQLK.K + 2 Oxidation (M)
2819.2236 2818.2163 2818.2394 -8.19 246 - 268 2 --- K.MTDEYNRMKAVVHQTDSMMDQLK.K + 3 Oxidation (M)

No match to: 716.4763, 723.4098, 724.2417, 725.2533, 726.3622, 728.3046, 729.4749, 734.4570, 736.3904, 737.4152, 738.3791, 744.8651, 745.3838, 747.4550, 768.3673, 788.4571, 801.4262, 805.4606, 813.4481, 814.4558, 820.4053, 823.4778, 829.4589, 839.3830, 825.5110, 857.4382, 860.4207, 865.4518, 870.4165, 872.5054, 880.4424, 882.4292, 887.4245, 887.9669, 888.4561, 891.4898, 894.4144, 894.8973, 897.5066, 898.4523, 912.5132, 913.5293, 925.4620, 927.4981, 931.4992, 934.5098, 957.5774, 960.5294, 961.4949, 963.4734, 965.4692, 970.5181, 972.4899, 975.5167, 976.5063, 977.5212, 978.5100, 978.5146, 983.6283, 992.4958, 993.5046, 995.4181, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.5911, 998.59
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 P84088
                    Mass: 15499 Score: 14
                                                                                                 Expect: 1.1e+003 Matches: 7
  Complexin-2 OS=Bos taurus GN=CPLX2 PE=1 SV=1

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss
        Ions
        Peptide

        723.4098
        722.4025
        722.3963
        8.64
        68 - 73
        1
        ---
        R.DKYGLi

                                                                                       8.64 68 - 73 1 --- R.DKYGLK.K
20.1 27 - 33 1 --- K.DPDAQKK.F
723.4098 722.4025 722.3963 8.64 68 - 73 1 --- R.DKYGLK.K
801.4262 800.4189 800.4028 20.1 27 - 33 1 --- K.DPDAQKK.E
1436.7889 1435.7816 1435.7533 19.7 123 - 134 1 --- K.DPDAQKK.E
1958.8956 1957.8883 1957.9089 -10.50 34 - 48 2 --- K.YLPGPLQDMFKK.-
2081.9827 2080.9754 2080.9769 -0.70 7 - 26 2 --- K.QALGGATKDMGKMLGGEEEK.D + 2 Oxidation (M)
2243.1243 2242.1170 2242.0899 12.1 79 - 98 1 --- K.AIPBAGCGEEEEEESILDTVLK.Y

No match to: 716.4763, 724.2417, 725.2533, 726.3622, 728.3046, 729.4749, 734.4570, 736.3904, 737.4152, 738.3791, 744.8651,
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  2889.2024, 2894.3218, 2927.2520, 2931.3428, 2955.3005, 2974.4124, 2975.4084, 2990.3921, 3006.3206, 3011.2810, 3020.3557, 3021.2412,
  3035.3281, 3053.3447, 3062.2456, 3086.4507, 3091.2622, 3103.3140, 3110.7285, 3113.8591, 3130.3557, 3140.4265, 3144.3657, 3159.4985, 3173.5386, 3174.5486, 3185.4236, 3218.3301, 3259.3625, 3312.3267, 3331.4678, 3347.4761, 3363.4788, 3390.4675, 3431.4570, 3447.4666,
  3463.4895, 3485.6985, 3488.6545, 3489.6521, 3493.0195, 3494.5571, 3504.6423, 3509.5613, 3525.6025, 3538.4521, 3553.6230, 3579.5403, 3648.1956, 3655.4729, 3664.7500, 3695.6177, 3712.5720, 3738.5837, 3816.7043, 3937.8308, 4010.8696
                                                                Score: 14
                                                                                                   Expect: 1.1e+003 Matches: 9
  M-phase phosphoprotein 6 OS=Bos taurus GN=MPHOSPH6 PE=2 SV=1

        ppm
        Start
        End Miss Ions
        Peptide

        -4.28
        1 - 8 2 --- - MARRY
        - MARRY

                              Mr(expt) Mr(calc)
933.5026 933.5065
                                                                                                       1 - 8 2 --- -.MAAERKTK.L
87 - 94 0 --- K.LMLQMNTK.N
                               977.5027
                                                           977.5038
                                                                                    -1.08
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1032.5238 1031.5165 1031.5135 2.97 30 - 37 1 --- K.QLEEEKK.I
2270.2183 2269.2110 2269.1994 5.14 37 - 54 2 --- K.KIISEEHWYLDLPELKEK.E
2550.1252 2549.1179 2549.1439 -10.17 95 - 116 1 --- K.NKAEEVEEQTVELDVSDEEMAR.R
2706.2766 2705.2693 2705.2450 9.00 95 - 117 2 --- K.NKAEEVEEQTVELDVSDEEMAR.Y
3509.5613 3508.5540 3508.6371 -23.67 87 - 116 2 --- K.LMLQMNTKNKAEEVEEQTVELDVSDEEMAR.R
3525.6025 3524.5952 3524.6320 -10.44 87 - 116 2 --- K.LMLQMNTKNKAEEVEEQTVELDVSDEEMAR.R + Oxidation (M)
3524.6320 -10.44 87 - 116 2 --- K.IMLOMNTKNKAEEVEEQTVELDVSDEEMAR.R + Oxidation (M)

No match to: 716.4763, 723.4098, 724.2417, 725.2533, 726.3622, 728.3046, 729.4749, 734.4570, 736.3904, 737.4152, 738.3791,

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 3664.7500, 3695.6177, 3712.5720, 3738.5837, 3816.7043, 3937.8308, 4010.8696
                                                                                Expect: 1.1e+003 Matches: 6
                   Mass: 42920
                                                  Score: 14
 Cathepsin D OS=Bos taurus GN=CTSD PE=1 SV=2

        Observed
        Mr(expt)
        Mr(calc)
        ppm
        Start
        End Miss
        Ions
        Peptide

        963.4734
        962.4661
        962.4821
        -16.64
        35 - 43
        0 ---
        K.YATGEE

        1255.5972
        1254.5899
        1254.6067
        -13.36
        173 - 183
        0 ---
        K.FDGILG

                                                                                                                                 K.YATGEPAVR.O
                                                                                                                                 K.FDGILGMAYPR.I + Oxidation (M)
No match to: 716.4763, 723.4098, 724.2417, 725.2533, 726.3622, 728.3046, 729.4749, 734.4570, 736.3904, 737.4152, 738.3791, 744.8651, 745.3838, 747.4550, 768.3673, 788.4571, 801.4262, 805.4606, 813.4481, 814.4558, 820.4053, 823.4778, 829.4589, 830.4522,
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  3021.2412, 3035.3281, 3053.3447, 3062.2456, 3086.4507, 3091.2622, 3103.3140, 3110.7285, 3113.8591, 3130.3557, 3140.4265, 3144.3657,
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                                                                                  Expect: 1.1e+003 Matches: 10
F1MMR6
                  Mass: 45132 Score: 14
 Cathepsin D OS=Bos taurus GN=CTSD PE=1 SV=1
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        Mr(calc)
        ppm
        Start
        End Miss
        Ions
        Peptide

        962.4821
        -16.64
        57 - 65
        0 ---
        K.YATGEPAVR.Q

  Observed
                       Mr(expt)
                         962.4661
                                                                                     332 - 341
 1057.6100 1056.6027 1056.6179 -14.38
                                                                                                                               K.VSSLPOVTVK.L
1057.6100 1056.6027 1056.6179 -14.38 332 - 341 0 --- K.VSSLPQVTVK.L
1057.6107 1056.6034 1056.6179 -13.72 332 - 341 0 --- K.VSSLPQVTVK.L
1255.5972 1254.5899 1254.6067 -13.36 195 - 205 0 --- K.FDGILGMAYPR.I + Oxidation (M)
1255.6000 1254.5927 1254.6067 -11.13 195 - 205 0 13 K.FDGILGMAYPR.I + Oxidation (M)
1445.7839 1444.7766 1444.7664 6.38 52 - 65 1 --- K.GPISKYATGEPAVR.Q
1958.8956 1957.8883 1957.9204 -16.36 239 - 256 1 --- K.AQPGGELMLGGTDSKYYR.G + Oxidation (M)
2096.0430 2095.0357 2095.0806 -21.40 37 - 56 1 --- R.TMSEAMGPVEHLIAKGPISK.Y
12244.0684 2243.0611 2243.1083 -21.03 393 - 411 2 --- R.TMSEAMGPVEHLIAKGPISK.Y + 2 Oxidation (M)
12284.1841 2283.1768 2283.1715 2.33 36 - 56 2 --- R.TMSEAMGPVEHLIAKGPISK.Y + 2 Oxidation (M)
 No match to: 716.4763, 723.4098, 724.2417, 725.2533, 726.3622, 728.3046, 729.4749, 734.4570, 736.3904, 737.4152, 738.3791, 744.8651, 745.3838, 747.4550, 768.3673, 788.4571, 801.4262, 805.4606, 813.4481, 814.4558, 820.4053, 823.4778, 829.4589, 830.4522,
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 1331.7888, 1333.7644, 1336.0798, 1336.6155, 1350.6853, 1351.7202, 1356.5811, 1359.1302, 1359.6246, 1365.6489, 1374.7588, 1383.7037, 1390.6974, 1393.7992, 1400.6683, 1401.6989, 1414.8191, 1429.3142, 1436.7889, 1444.7122, 1450.7223, 1456.7717, 1462.6630, 1467.7329,
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 1997.8312, 2003.8595, 2008.9971, 2011.8464, 2015.9408, 2019.8779, 2025.8735, 2031.9606, 2047.9397, 2062.9578, 2067.0020, 2076.8943, 2081.9827, 2082.9966, 2087.0103, 2088.1108, 2089.1162, 2097.0200, 2108.9771, 2110.0061, 2139.0991, 2140.0918, 2143.1006, 2144.0718,
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 3695.6177. 3712.5720. 3738.5837. 3816.7043. 3937.8308. 4010.8696
E1BNB8
                   Mass: 12329 Score: 13
                                                                              Expect: 1.1e+003 Matches: 5
 Uncharacterized protein OS=Bos taurus PE=4 SV=2
Observed Mr(expt) Mr(calc) ppm Start End Miss Ions
1557.6992 1556.6919 1556.6929 -0.66 100 - 113 0 --- R.VDPADSSLYFCGAR.-
2088.1108 2087.1035 2087.0629 19.5 41 - 57 1 --- R.ALDFQATAVFWYRQFFK.R
2561.1729 2560.1656 2560.2115 -17.93 59 - 82 1 --- R.GLVLMATSNVGSDATYEQGYNKDK.I
2717.2725 2716.2652 2716.3126 -17.45 58 - 82 2 --- K.RGLVLMATSNVGSDATYEQGYNKDK.I
2974.4124 2973.4051 2973.4654 -20.28 54 - 80 2 --- R.GFPKRGLVLMATSNVGSDATYEQGYNK.D

No match to: 716.4763, 723.4098, 724.2417, 725.2533, 726.3622, 728.3046, 729.4749, 734.4570, 736.3904, 737.4152, 738.3791,
 744.8651, 745.383, 747.4550, 768.3673, 788.4571, 801.4262, 805.4606, 813.4481, 814.4558, 820.4053, 823.4778, 829.4553, 829.3830, 842.5110, 857.4382, 860.4207, 865.4518, 870.4165, 872.5054, 880.4424, 882.4292, 887.4245, 887.9669, 888.4561, 891.4898, 894.4144, 894.8973, 897.5006, 898.4523, 912.5132, 913.5293, 925.4620, 927.4981, 931.4992, 934.5098, 957.5774, 960.5294, 961.4949,
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 1030.5978, 1032.5238, 1036.5260, 1037.5405, 1039.5641, 1040.5908, 1042.5388, 1043.5178, 1045.5568, 1046.6018, 1056.5515, 1057.6100, 1057.6107, 1061.6168, 1074.6073, 1074.6100, 1076.6123, 1102.6007, 1103.6257, 1105.6136, 1107.1058, 1113.5486, 1120.5498, 1122.5322, 1123.5986, 1128.5724, 1129.5924, 1134.3574, 1137.5463, 1145.6348, 1149.6057, 1153.6460, 1156.4957, 1161.6295, 1162.6174, 1164.1815,
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1643.7688 1642.7615 1642.7985 -22.48 165 - 179 1 --- K.GKTCQPTFQPVKAEK.F

1718.8790 1717.8717 1717.8821 -6.06 251 - 265 2 --- K.GKTCQPTFQPVKAEK.F

1772.8273 1771.8200 1771.7910 16.4 298 - 312 0 --- K.GKTCQPTFQPVKAEK.F

1772.8273 1771.8200 1771.7910 16.4 298 - 312 0 --- K.MITVQFDCPNEGSFK.W

2087.0103 2086.0030 2085.9652 18.1 298 - 314 1 --- K.MITVQFDCPNEGSFKWK.M

2203.0386 2202.0313 2202.0587 -12.41 160 - 179 2 --- K.TDQSKCGLGSSQKQLSTSYK.T

2701.2820 2700.2747 2700.2135 22.7 266 - 288 0 --- K.FVFSGCASTQSYRPTFCGICLDK.R

2889.2024 2888.1951 2888.2554 -20.89 19 - 42 2 --- K.GSPAEGAEGHRKQFCHWPCQCPR.R

3185.4236 3184.4163 3184.4893 -22.90 263 - 289 2 --- K.AEKFVFSGCASTQSYRPTFCGICLDKR.C

3553.6230 3552.6157 3552.6121 1.02 298 - 325 2 --- K.MITVQPDCPNEGSFKWKMWITSCVCQR.N + 2 Oxidation (M) No match to: 716.4763, 723.4098, 724.2417, 725.2533, 726.3622, 728.3046, 729.4749, 734.4570, 736.3904, 737.4152, 738.3791, No match to: 716.4763, 723.4098, 724.2417, 725.2533, 726.3622, 728.3046, 729.4749, 734.4570, 736.3904, 737.4152, 738.3791, 744.8651, 745.3838, 747.4550, 768.3673, 788.4571, 801.4262, 805.4606, 813.4481, 814.4558, 820.4053, 823.4778, 829.4589, 830.4522, 839.3830, 842.5110, 857.4382, 860.4207, 865.4518, 870.4165, 872.5054, 880.4424, 882.4292, 887.4245, 887.9669, 888.4561, 891.4898, 894.4144, 894.8973, 897.5006, 898.4523, 912.5132, 913.5293, 925.4620, 927.4981, 931.4992, 934.5098, 957.5774, 960.5294, 961.4949, 963.4734, 965.4692, 970.5181, 972.4899, 975.5167, 976.5063, 977.5212, 978.5100, 978.5146, 983.6283, 992.4958, 993.5046, 998.5911, 000.5959, 1002.5007, 1006.5014, 1011.5474, 1012.5447, 1014.5485, 1020.5577, 1021.5699, 1024.5516, 1027.5438, 1028.5397, 1030.5978, 1032.5238, 1036.5260, 1037.5405, 1039.5641, 1040.5908, 1042.5388, 1043.5178, 1045.5568, 1046.6018, 1056.5515, 1057.6100, 1057.6107, 1061.6168, 1074.6073, 1074.6100, 1076.6123, 1102.6007, 1105.6136, 1107.1058, 1113.5486, 1120.5498, 1122.5322, 1123.5886, 1128.5724, 1124.5487, 1145.6073, 1107.1058, 1113.5486, 1120.5498, 1122.5322, 1123.5886, 1128.5724, 1124.5487, 1145.6073, 1107.1058, 1113.5486, 1120.5498, 1122.5322, 1123.5886, 1128.5724, 1124.5487, 1145.6073, 1107.1058, 1113.5486, 1120.5498, 1122.5322, 1123.5886, 1128.5724, 1124.5487, 1145.6073, 1145.60 1129.5924, 1134.3574, 1137.5463, 1145.6348, 1149.6057, 1153.6460, 1156.4957, 1161.6295, 1162.6174, 1164.1815, 1170.5497, 1177.6410, 1180.6428, 1184.6412, 1188.5603, 1193.6041, 1206.5107, 1209.5889, 1211.6099, 1212.6160, 1215.6743, 1216.7081, 1219.6886, 1227.6234, 1229.7098, 1234.6414, 1240.5974, 1242.6003, 1243.6161, 1253.6216, 1255.5972, 1255.6000, 1260.6227, 1264.7130, 1265.7064, 1269.6498, 1270.6575, 1273.6556, 1277.6305, 1286.6099, 1289.6875, 1293.6401, 1303.6455, 1304.6677, 1307.6788, 1309.6780, 1318.6750, 1319.6589, 1328.6600, 1328.6620, 1331.7888, 1333.7644, 1336.0798, 1336.6155, 1350.6853, 1351.7202, 1356.5811, 1359.1302, 1359.6246, 1365.6489, 1374.7588, 1383.7037, 1393.7992, 1400.6683, 1401.6989, 1414.8191, 1429.3142, 1436.7889, 1444.7122, 1445.7839, 1450.7223, 1456.7717, 1462.6630, 1467.7329, 1470.7394, 1471.2693, 1471.7250, 1472.2531, 1474.5243, 1475.7633, 1483.7141, 1488.5333, 1488.7194, 1493.7366, 1502.5601, 1513.7441, 1514.6849, 1516.6807, 1517.6437, 1518.7053, 1523.7611, 1526.7343, 1528.6973, 1530.6893, 1536.8230, 1540.7114, 1551.7063, 1553.7252, 1554.7474, 1557.6992, 1558.7140, 1563.6658, 1564.3619, 1565.7223, 1566.7162, 1572.7062, 1580.8400, 1580.8423, 1586.8090, 1597.7913, 1599.8337, 1601.8030, 1614.8046, 1616.7968, 1628.7136, 1630.8103, 1635.7697, 1642.7682, 1644.7915, 1646.8154, 1651.7681, 1657.7932, 1663.8466, 1664.8557, 1666.7545, 1695.8208, 1707.8933, 1721.9192, 1722.9375, 1728.8976, 1730.9116, 1732.2391, 1734.1844, 1739.7894, 1743.8966, 1755.2666, 1755.7703, 1757.4702, 1757.9089, 1758.4524, 1758.8987, 1761.9023, 1765.7578, 1768.8339, 1769.8287, 1770.3949, 1773.8792, 1774.9180, 1774.9200, 1786.8268, 1787.8239, 1809.0499, 1810.0303, 1829.8895, 1830.8380, 1833.3470, 1833.8501, 1851.8885, 1852.0399, 1862.9515, 1881.7703, 1895.9634, 1906.8195, 1908.8512, 1920.7972, 1932.0050, 1936.9479, 1939.8563, 1940.8103, 1943.8293, 1954.8351, 1956.8574, 1958.8956, 1965.7998, 1967.9565, 1969.9998, 1979.8927, 1981.3531, 1982.8179, 1995.8232, 1997.8312, 2003.8595, 2008.9971, 2011.8464, 2015.9408, 2019.8779, 2025.8735, 2031.9606, 2047.9397, 2062.9578, 2067.0020, 2076.8943, 2081.9827, 2082.9966, 2088.1108, 2089.1162, 2096.0430, 2097.0200, 2108.9771, 2110.0061, 2139.0991, 2140.0918, 2143.1006, 2144.0718, 2149.8516, 2160.0554, 2174.0378, 2178.0471, 2179.0574, 2188.0547, 2191.0457, 2198.1831, 2199.1499, 2211.1052, 2223.1582, 2225.1470, 2227.1042, 2228.0725, 2238.1086, 2239.1538, 2243.1243, 2244.0684, 2254.0896, 2255.1482, 2260.0779, 2270.2183, 2272.1736, 2284.1841, 2287.1108, 2307.0549, 2309.0659, 2310.0798, 2310.5271, 2311.0454, 2319.0945, 2337.6050, 2341.5510, 2353.0518, 2354.0767, 2355.0564, 2371.0581, 2383.9592, 2388.0437, 2392.1462, 2404.0471, 2412.0872, 2419.5879, 2420.0864, 2420.5930, 2423.2439, 2426.5667, 2427.1211, 2438.1724, 2455.1553, 2458.1648, 2459.1794, 2478.1587, 2516.1133, 2533.1262, 2542.1650, 2546.1746, 2549.1316, 2550.1252, 2559.1470, 2561.1729, 2562.1765, 2567.1514, 2572.1523, 2574.2678, 2576.1628, 2583.1218, 2587.2722, 2604.1682, 2612.1438, 2653.7173, 2655.1897, 2671.1787, 2687.1833, 2706.2766, 2712.2104, 2714.2156, 2716.1953, 2717.2725, 2725.2354, 2729.1675, 2739.2351, 2743.2642, 2745.2900, 2754.2197, 2755.2358, 2759.2573, 2769.2219, 2771.2437, 2776.2644, 2785.2388, 2786.2617, 2787.2400, 2793.2439, 2801.2378, 2803.2302, 2809.2549, 2815.2153, 2817.2322, 2819.2236, 2830.2788, 2833.2280, 2836.2397, 2862.2927, 2873.2961, 2894.3218, 2927.2520, 2891.328, 2955.349, 2815.239, 2817.232, 2817.232, 2830.2780, 2835.2280, 2835.2280, 2836.297, 2862.297, 2862.297, 2875.297, 2875.280, 287 05E9I6 Mass: 20645 Score: 13 Expect: 1.1e+003 Matches: 9 ADP-ribosylation factor 3 OS=Bos taurus GN=ARF3 PE=2 SV=3 ADP-ribosylation factor 3 OS=Bos taurus GN=ARF3 PE=2 SV=3

Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide

992.4958 991.4885 991.4885 991.4644 24.3 110 - 117 0 --- R.MLAEDELR.D + Oxidation (M)

1061.6168 1060.6095 1060.6063 3.08 11 - 19 2 --- K.SLIGKKEMR.I

1103.6257 1102.6184 1102.6056 11.6 20 - 30 0 --- R.ILMVGLDAAGK.T + Oxidation (M)

1565.7223 1564.7150 1564.7522 -23.76 60 - 73 0 --- K.NISFTVWDVGGDK.I

1633.8103 1629.8030 1629.7668 22.2 128 - 142 0 --- K.QDLPNAMNAAEITDK.L

1663.8466 1662.8393 1662.8797 -24.26 16 - 30 2 --- K.KEMRILMVGLDAAGK.T + 2 Oxidation (M)

1666.7545 1665.7472 1665.7702 -13.77 105 - 117 1 --- R.EELMRMLAEDELR.D + 2 Oxidation (M)

2423.2439 2422.2366 2422.2274 3.80 128 - 149 1 --- K.QDLPNAMNAAEITDKLGLHSLR.H + Oxidation (M)

2438.1724 2437.1651 2437.1757 -5.07 80 - 99 1 --- R.HYFONTQCLIFVVDSNDRER.V

No. match to 10.476.3 73.4098 73. No match to: 716.4763, 723.4098, 724.2417, 725.2533, 726.3622, 728.3046, 729.4749, 734.4570, 736.3904, 737.4152, 738.3791, 744.8651, 745.3838, 747.4550, 768.3673, 788.4571, 801.4262, 805.4606, 813.4481, 814.4558, 820.4053, 823.4778, 829.4589, 830.4522, 839.3830, 842.5110, 857.4382, 860.4207, 865.4518, 870.4165, 872.5054, 880.4424, 882.4292, 887.4245, 887.9669, 888.4561, 891.4898, 894.4144, 894.8973, 897.5006, 898.4523, 912.5132, 913.5293, 925.4620, 927.4981, 931.4992, 934.5098, 957.5774, 960.5294, 961.4949, 963.4734, 965.4692, 970.5181, 972.4899, 975.5167, 976.5063, 977.5212, 978.5100, 978.5146, 983.6283, 993.5046, 995.4181, 998.5911, 1000.5959, 1002.5007, 1006.5014, 1011.5474, 1012.5447, 1014.5485, 1020.5577, 1021.5699, 1024.5516, 1027.5438, 1028.5397, 1032.5238, 1036.5260, 1037.5405, 1039.5641, 1040.5908, 1042.5388, 1043.5178, 1045.5568, 1046.6018, 1056.5515, 1057.6100, 1057.6107, 1074.6073, 1074.6100, 1076.6123, 1102.6007, 1105.6136, 1107.1058, 1113.5486, 1120.5498, 1122.5322, 1123.5986, 1128.5724, 1129.5924, 1134.3574, 1137.5463, 1145.6348, 1149.6057, 1153.6460, 1156.4957, 1161.6295, 1162.6174, 1164.1815, 1170.5497, 1172.6156, 1177.6410, 1180.6428, 1184.6412, 1188.5603, 1193.6041, 1206.5107, 1209.5889, 1211.6099, 1212.6160, 1215.6743, 1216.7081, 1219.6886, 1227.6234, 1229.7098, 1234.6414, 1240.5974, 1242.6003, 1243.6161, 1253.6216, 1255.5972, 1255.6000, 1260.6227, 1264.7130, 1265.7064, 1269.6498, 1270.6575, 1273.6556, 1277.6305, 1286.6099, 1289.6875, 1293.6401, 1303.6455, 1304.6677, 1307.6788, 1309.6780, 1318.6750, 1319.6589, 1328.6600, 1328.6620, 1331.7888, 1333.7644, 1336.0798, 1336.6155, 1350.6853, 1351.7202, 1356.5811, 1359.1302, 1359.6246, 1365.6489, 1374.7588, 1383.7037, 1390.6974, 1393.7992, 1400.6683, 1401.6989, 1414.8191, 1429.3142, 1436.7889, 1444.7122, 1445.7839, 1450.7223, 1456.7717, 1462.6630, 1467.7329, 1470.7394, 1471.2693, 1471.7250, 1472.2531, 1474.5243, 1475.7633, 1483.7141, 1488.5333, 1488.7194, 1493.7366, 1502.5601, 1513.7441, 1514.6849, 1516.6807, 1517.6437, 1518.7053, 1523.7611, 1526.7343, 1528.6973, 1530.6893, 1536.8230, 1540.7114, 1551.7063, 1553.7252, 1554.7474, 1557.6992, 1558.7140, 1563.6658, 1564.3619, 1566.7162, 1572.7062, 1580.8400, 1580.8423, 1586.8090, 1597.7913, 1599.8337, 1601.8030, 1614.8046, 1616.7968, 1628.7136, 1635.7697, 1642.7682, 1643.7688, 1644.7915, 1646.8154, 1651.7681, 1657.7932, 1664.8557, 1695.8208, 1707.8933, 1718.8790, 1721.9192, 1722.9375, 1728.8976, 1730.9116, 1732.2391, 1734.1844, 1739.7894, 1743.8966, 1755.2666, 1755.7703, 1757.4702, 1757.9089, 1758.4524, 1758.8987, 1761.9023, 1765.7578, 1768.8339, 1769.8287, 1770.3949, 1772.8273, 1773.8792, 1774.9180, 1774.9200, 1786.8268, 1787.8239, 1809.0499, 1810.0303, 1829.8895, 1830.8380, 1833.3470, 1833.8501, 1851.8885, 1852.0399, 1862.9515, 1881.7703, 1895.9634, 1906.8195, 1908.8512, 1920.7972, 1932.0050, 1936.9479, 1939.8563, 1940.8103, 1943.8293, 1954.8351, 1956.8574, 1958.8956, 1965.7998, 1967.9565, 1969.9998, 1979.8927, 1981.3531, 1982.8179, 1995.8232, 1997.8312, 2003.8595, 2008.9971, 2011.8464, 2015.9408, 2019.8779, 2025.8735, 2031.9606, 2047.9397, 2062.9578, 2067.0020, 2076.8943, 2081.9827, 2082.9966, 2087.0103, 2088.1108, 2089.1162, 2096.0430, 2097.0200, 2108.9771, 2110.0061, 2139.0991, 2140.0918, 2143.1006,

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2144.0718, 2149.8516, 2160.0554, 2174.0378, 2178.0471, 2179.0574, 2188.0547, 2191.0457, 2198.1831, 2199.1499, 2203.0386, 2211.1052, 2223.1582, 2225.1470, 2227.1042, 2228.0725, 2238.1086, 2239.1538, 2243.1243, 2244.0684, 2254.0896, 2255.1482, 2260.0779, 2270.2183,
  2272.1736, 2284.1841, 2287.1108, 2307.0549, 2309.0659, 2310.0798, 2310.5271, 2311.0454, 2319.0945, 2337.6050, 2341.5510, 2353.0518
  2354.0767, 2355.0564, 2371.0581, 2383.9592, 2388.0437, 2392.1462, 2404.0471, 2412.0872, 2419.5879, 2420.0864, 2420.5930, 2426.5667, 2427.1211, 2455.1553, 2458.1648, 2459.1794, 2478.1587, 2516.1133, 2533.1262, 2542.1650, 2546.1746, 2549.1316, 2550.1252, 2559.1470,
  2561.1729, 2562.1765, 2567.1514, 2572.1523, 2574.2678, 2576.1628, 2583.1218, 2587.2722, 2604.1682, 2612.1438, 2653.7173, 2655.1897, 2671.1787, 2687.1833, 2701.2820, 2706.2766, 2712.2104, 2714.2156, 2716.1953, 2717.2725, 2725.2354, 2729.1675, 2739.2351, 2743.2642,
  2745.2900, 2754.2197, 2755.2358, 2759.2573, 2769.2219, 2771.2437, 2776.2644, 2785.2388, 2786.2617, 2787.2400, 2793.2439, 2801.2378, 2803.2302, 2809.2549, 2815.2153, 2817.2322, 2819.2236, 2830.2788, 2833.2280, 2836.2397, 2862.2927, 2873.2961, 2889.2024, 2894.3218,
  2927.2520, 2931.3428, 2955.3005, 2974.4124, 2975.4084, 2990.3921, 3006.3206, 3011.2810, 3020.3557, 3021.2412, 3035.3281, 3053.3447,
  3062.2456, 3086.4507, 3091.2622, 3103.3140, 3110.7285, 3113.8591, 3130.3557, 3140.4265, 3144.3657, 3159.4985, 3173.5386, 3174.5486, 3185.4236, 3218.3301, 3259.3625, 3312.3267, 3331.4678, 3347.4761, 3363.4788, 3390.4675, 3431.4570, 3447.4666, 3463.4895, 3485.6985,
  3488.6545, 3489.6521, 3493.0195, 3494.5571, 3504.6423, 3509.5613, 3525.6025, 3538.4521, 3553.6230, 3579.5403, 3648.1956, 3655.4729, 3664.7500, 3695.6177, 3712.5720, 3738.5837, 3816.7043, 3937.8308, 4010.8696
 <u>F1MIV1</u> Mass: 57360
                                                     Score: 13
                                                                                  Expect: 1.1e+003 Matches: 16
  Uncharacterized protein OS=Bos taurus GN=ZBTB34 PE=4 SV=2

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss Ions
        Peptide

        978.5100
        977.5027
        977.5043
        -1.58
        460
        - 468
        0
        ---
        K.NHPGW.

 **No match to: 716,4763, 723,4098, 724,2417, 725,2533, 726,3627, 728,3046, 729,4749, 734,4570, 736,3904, 737,4152, 738,3791, 744.8651, 745.3838, 747.4550, 768.3673, 788.4571, 801.4262, 805.4606, 813.4481, 814.4558, 820.4053, 823.4778, 829.4589, 830.4522, 839.3830, 842.5110, 857.4382, 860.4207, 865.4518, 870.4165, 872.5054, 880.4424, 882.4292, 887.4245, 887.9669, 888.4561, 891.4898, 894.4144, 894.8973, 897.5006, 898.4523, 912.5132, 913.5293, 925.4620, 927.4981, 931.4992, 934.5098, 957.5774, 960.5294, 961.4949, 963.4734, 965.4692, 970.5181, 972.4899, 975.5167, 976.5063, 977.5212, 983.6283, 992.4958, 993.5046, 995.4181, 998.5911, 1000.5959, 1002.5007, 1006.5014, 1011.5474, 1012.5447, 1014.5485, 1020.5577, 1021.5699, 1024.5516, 1027.5438, 1028.5397, 1030.5978, 1032.5238, 1036.5601, 1037.5405, 1037.5405, 1037.5407, 1031.5129
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  1331.7888, 1333.7644, 1336.0798, 1336.6155, 1350.6853, 1351.7202, 1356.5811, 1359.1302, 1359.6246, 1365.6489, 1374.7588, 1383.7037,
  1390.6974, 1393.7992, 1401.6989, 1414.8191, 1429.3142, 1436.7889, 1444.7122, 1445.7839, 1450.7223, 1456.7717, 1462.6630, 1467.7329, 1470.7394, 1471.2693, 1471.7250, 1472.2531, 1474.5243, 1475.7633, 1483.7141, 1488.5333, 1488.7194, 1493.7366, 1502.5601, 1513.7441,
  1514.6849, 1516.6807, 1517.6437, 1518.7053, 1523.7611, 1526.7343, 1528.6973, 1530.6893, 1536.8230, 1540.7114, 1551.7063, 1553.7252, 1554.7474, 1557.6992, 1558.7140, 1563.6658, 1564.3619, 1565.7223, 1566.7162, 1572.7062, 1580.8400, 1580.8423, 1586.8090, 1597.7913,
   1599.8337, 1601.8030, 1614.8046, 1616.7968, 1628.7136, 1635.7697, 1642.7682, 1643.7688, 1644.7915, 1646.8154, 1651.7681, 1657.7932,
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  1773.8792, 1774.9180, 1774.9200, 1786.8268, 1787.8239, 1809.0499, 1810.0303, 1829.8895, 1830.8380, 1833.3470, 1833.8501, 1851.8885, 1852.0399, 1862.9515, 1881.7703, 1895.9634, 1906.8195, 1908.8512, 1920.7972, 1932.0050, 1936.9479, 1939.8563, 1940.8103, 1943.8293,
  1954.8351, 1956.8574, 1958.8956, 1965.7998, 1967.9565, 1969.9998, 1979.8927, 1981.3531, 1982.8179, 1995.8232, 1997.8312, 2003.8595,
  2008.9971, 2011.8464, 2015.9408, 2019.8779, 2025.8735, 2031.9606, 2047.9397, 2062.9578, 2067.0020, 2076.8943, 2081.9827, 2082.9966, 2087.0103, 2088.1108, 2089.1162, 2096.0430, 2097.0200, 2108.9771, 2110.0061, 2139.0991, 2140.0918, 2143.1006, 2144.0718, 2149.8516,
  2160.0554, 2174.0378, 2178.0471, 2179.0574, 2188.0547, 2191.0457, 2198.1831, 2199.1499, 2203.0386, 2211.1052, 2223.1582, 2225.1470, 2227.1042, 2228.0725, 2238.1086, 2239.1538, 2243.1243, 2244.0684, 2254.0896, 2260.0779, 2270.2183, 2284.1841, 2307.0549, 2309.0659,
  2310.0798, 2310.5271, 2311.0454, 2319.0945, 2337.6050, 2341.5510, 2353.0518, 2354.0767, 2355.0564, 2371.0581, 2383.9592, 2388.0437, 2392.1462, 2404.0471, 2412.0872, 2419.5879, 2420.0864, 2420.5930, 2423.2439, 2426.5667, 2427.1211, 2438.1724, 2455.1553, 2458.1648,
  2459.1794, 2478.1587, 2516.1133, 2533.1262, 2542.1650, 2546.1746, 2549.1316, 2550.1252, 2561.1729, 2562.1765, 2567.1514, 2572.1523,
  2574.2678, 2576.1628, 2583.1218, 2587.2722, 2604.1682, 2612.1438, 2653.7173, 2655.1897, 2671.1787, 2687.1833, 2701.2820, 2706.2766, 2712.2104, 2714.2156, 2716.1953, 2717.2725, 2725.2354, 2729.1675, 2739.2351, 2743.2642, 2745.2900, 2754.2197, 2755.2358, 2759.2573,
  2769.2219, 2771.2437, 2776.2644, 2785.2388, 2786.2617, 2787.2400, 2793.2439, 2801.2378, 2803.2302, 2809.2549, 2815.2153, 2817.2322, 2819.2236, 2830.2788, 2833.2280, 2862.2927, 2873.2961, 2889.2024, 2894.3218, 2927.2520, 2931.3428, 2955.3005, 2974.4124, 2975.4084,
  2990.3921, 3006.3206, 3011.2810, 3020.3557, 3021.2412, 3035.3281, 3053.3447, 3062.2456, 3086.4507, 3091.2622, 3103.3140, 3110.7285, 3113.8591, 3130.3557, 3140.4265, 3144.3657, 3159.4985, 3173.5386, 3174.5486, 3185.4236, 3218.3301, 3259.3625, 3312.3267, 3331.4678,
   3347.4761, 3363.4788, 3390.4675, 3431.4570, 3447.4666, 3463.4895, 3485.6985, 3488.6545, 3489.6521, 3493.0195, 3494.5571, 3504.6423,
  3509.5613, 3525.6025, 3538.4521, 3553.6230, 3579.5403, 3648.1956, 3655.4729, 3664.7500, 3695.6177, 3712.5720, 3816.7043, 3937.8308
                                                                                  Expect: 1.1e+003 Matches: 21
 F1MK70 Mass: 59648 Score: 13
  Uncharacterized protein OS=Bos taurus GN=SPATS2 PE=4 SV=2

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Wiss
        Ions
        Peptide

        820.4053
        819.3981
        819.4127
        -17.84
        80 - 86
        0 - --
        K.EWTVTGK.K

        912.5132
        911.5060
        911.4937
        13.5
        443 - 450
        1 ---
        R.EALPCNRR.G

        1074.6073
        1073.6000
        1073.6080
        -7.47
        235 - 244
        1 ---
        K.LGSNIEKSVK.D

        1074.6100
        1073.6027
        1073.6080
        -4.96
        235 - 244
        1 ---
        K.LGSNIEKSVK.D

        1076.6123
        1075.6050
        1075.6026
        2.27
        80 - 88
        2 ---
        K.EMTVTGKK.N

        1193.6041
        1192.5968
        1192.5836
        11.1
        345 - 354
        1 ---
        K.YDEDLGRVAR.F

        1240.5974
        1239.5901
        1239.6169
        -21.62
        355 - 364
        1 ---
        K.EMTVTGKKK.N

        1318.6750
        1317.6677
        1317.6823
        -11.07
        245 - 255
        1 ---
        K.ELMDASIKKMK.Q

        1328.6600
        1327.6527
        1327.6521
        0.49
        365 - 376
        0 ---
        K.DLQRCTVSLAR.Y

   Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide
 1328.6620 1327.6547 1327.6521 2.00 365 - 376 0 --- K.NIDSFGQVSHPK.N
1456.7717 1455.7644 1455.7470 12.0 364 - 376 1 --- K.KNIDSFGQVSHPK.N
 1628.7136 1627.7063 1627.7148 -5.21
1969.9998 1968.9925 1968.9905 1.03
                                                                                     175 - 189 0 --- R.TGSMLENGVSDFESR.S
4 - 20 2 --- R.KQNQKDSSGFIFDLQSK.T
                                                                                      451 - 470 1 --- R.GGQGYRPQGPKSSDPTNQGR.H
  2087 0103 2086 0030 2085 9940
                                                                        4 31
 2243.1243 2242.1170 2242.0951 9.76 450 - 470 2 --- R.RGGQGYRPQGPKSSDPTMQGR.H
2287.1108 2286.1035 2286.0950 3.71 345 - 363 2 --- K.YDEDLGRVARFTCDVETLK.K
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2455.1553 2454.1480 2454.1346 5.46 504 - 528 0 --- R.GQAHSAGTNGTGASMEPGPPKPSFR.K + Oxidation (M) 2706.2766 2705.2693 2705.3007 -11.59 9 - 33 1 --- K.DSSGFIFDLQSKTVLAQGGAFENMK.E + Oxidation (M) 2714.2156 2713.2083 2713.2117 -1.23 479 - 503 1 --- R.NSSWYSSGSRYQSAPPQAPGNTSER.G 2975.4084 2974.4011 2974.3908 3.47 271 - 295 2 --- K.MKQAFAELQSCLMDREVALLAEMDK.V + 3 Oxidation (M)
  No match to: 716.4763, 723.4098, 724.2417, 725.2533, 726.3622, 728.3046, 729.4749, 734.4570, 736.3904, 737.4152, 738.3791, 744.8651, 745.3838, 747.4550, 768.3673, 788.4571, 801.4262, 805.4606, 813.4481, 814.4558, 823.4778, 829.4589, 830.4522, 839.3830, 842.5110, 857.4382, 860.4207, 865.4518, 870.4165, 872.5054, 880.4424, 882.4292, 887.4245, 887.9669, 888.4561, 891.4898, 894.4144,
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  1002.5007, 1006.5014, 1011.5474, 1012.5447, 1014.5485, 1020.5577, 1021.5699, 1024.5516, 1027.5438, 1028.5397, 1030.5978, 1032.5238, 1036.5260, 1037.5405, 1039.5641, 1040.5908, 1042.5388, 1043.5178, 1045.5568, 1046.6018, 1056.5515, 1057.6100, 1057.6107, 1061.6168,
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  1188.5603, 1206.5107, 1209.5889, 1211.6099, 1212.6160, 1215.6743, 1216.7081, 1219.6886, 1227.6234, 1229.7098, 1234.6414, 1242.6003,
  1243.6161, 1253.6216, 1255.5972, 1255.6000, 1260.6227, 1264.7130, 1265.7064, 1269.6498, 1270.6575, 1273.6556, 1277.6305, 1286.6099, 1289.6875, 1293.6401, 1303.6455, 1304.6677, 1307.6788, 1319.6589, 1331.7888, 1333.7644, 1336.0798, 1336.6155, 1350.6853, 1351.7202,
  1356.5811, 1359.1302, 1359.6246, 1365.6489, 1374.7588, 1383.7037, 1390.6974, 1393.7992, 1400.6683, 1401.6989, 1414.8191, 1429.3142, 1436.7889, 1444.7122, 1445.7839, 1450.7223, 1462.6630, 1467.7329, 1470.7394, 1471.2693, 1471.7250, 1472.2531, 1474.5243, 1475.7633,
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  1642.7682, 1643.7688, 1644.7915, 1646.8154, 1651.7681, 1657.7932, 1663.8466, 1664.8557, 1666.7545, 1695.8208, 1707.8933, 1718.8790, 1721.9192, 1722.9375, 1728.8976, 1730.9116, 1732.2391, 1734.1844, 1739.7894, 1743.8966, 1755.2666, 1755.7703, 1757.4702, 1757.9089,
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   1906.8195, 1908.8512, 1920.7972, 1932.0050, 1936.9479, 1939.8563, 1940.8103, 1943.8293, 1954.8351, 1956.8574, 1958.8956, 1965.7998,
  1967.9565, 1979.8927, 1981.3531, 1982.8179, 1995.8232, 1997.8312, 2003.8595, 2008.9971, 2011.8464, 2015.9408, 2019.8779, 2025.8735, 2031.9606, 2047.9397, 2062.9578, 2067.0020, 2076.8943, 2081.9827, 2082.9966, 2088.1108, 2089.1162, 2096.0430, 2097.0200, 2108.9771,
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  2255.1482, 2260.0779, 2270.2183, 2272.1736, 2284.1841, 2307.0549, 2309.0659, 2310.0798, 2310.5271, 2311.0454, 2319.0945, 2337.6050,
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  2894.3218, 2927.2520, 2931.3428, 2955.3005, 2974.4124, 2990.3921, 3006.3206, 3011.2810, 3020.3557, 3021.2412, 3035.3281, 3053.3447,
  3062.2456, 3086.4507, 3091.2622, 3103.3140, 3110.7285, 3113.8591, 3130.3557, 3140.4265, 3144.3657, 3159.4985, 3173.5386, 3174.5486, 3185.4236, 3218.3301, 3259.3625, 3312.3267, 3331.4678, 3347.4761, 3363.4788, 3390.4675, 3431.4570, 3447.4666, 3463.4895, 3485.6985,
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 F1MY44 Mass: 77716 Score: 13
                                                                      Expect: 1.2e+003 Matches: 22
  Uncharacterized protein OS=Bos taurus GN=HNRNPM PE=1 SV=2
   Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide
                                                                        404 - 410 0 --- R.MGPGIDR.I
127 - 134 1 --- K.KAAEVLNK.I
                       744.3765
                                          744.3589
871.5127 -16.67
                                                                                                               K.KAAEVLNK.H
 No match to: 716.4763, 723.4098, 724.2417, 725.2533, 726.3622, 728.3046, 729.4749, 734.4570, 736.3904, 737.4152, 738.3791, 744.8651, 747.4550, 768.3673, 788.4571, 801.4262, 805.4606, 813.4481, 814.4558, 820.4053, 823.4778, 829.4589, 830.4522, 839.3830, 842.5110, 857.4382, 860.4207, 865.4518, 870.4165, 880.4424, 882.4292, 887.4245, 887.9669, 888.4561, 891.4898, 894.4144, 894.8973, 897.5006, 898.4523, 912.5132, 913.5293, 925.4620, 927.4981, 931.4992, 934.5098, 957.5774, 960.5294, 961.4949, 963.4734, 965.4692,
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  1184.6412, 1193.6041, 1206.5107, 1209.5889, 1211.6099, 1212.6160, 1215.6743, 1216.7081, 1219.6886, 1227.6234, 1229.7098, 1234.6414, 1240.5974, 1242.6003, 1243.6161, 1253.6216, 1255.5972, 1255.6000, 1260.6227, 1265.7064, 1269.6498, 1270.6575, 1273.6556, 1277.6305,
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  1393.7992, 1400.6683, 1401.6989, 1414.8191, 1429.3142, 1436.7889, 1444.7122, 1445.7839, 1456.7717, 1462.6630, 1467.7329, 1470.7394
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  1707.8933, 1718.8790, 1721.9192, 1722.9375, 1728.8976, 1730.9116, 1732.2391, 1734.1844, 1739.7894, 1743.8966, 1755.2666, 1755.7703, 1757.4702, 1757.9089, 1758.4524, 1758.8987, 1761.9023, 1765.7578, 1769.8287, 1770.3949, 1773.8792, 1774.9180, 1774.9200, 1786.8268,
  1787.8239, 1809.0499, 1810.0303, 1829.8895, 1830.8380, 1833.3470, 1833.8501, 1851.8885, 1852.0399, 1862.9515, 1881.7703, 1906.8195, 1908.8512, 1920.7972, 1932.0050, 1936.9479, 1939.8563, 1940.8103, 1943.8293, 1954.8351, 1956.8574, 1958.8956, 1965.7998, 1967.9565,
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                3695.6177. 3712.5720. 3738.5837. 3816.7043. 3937.8308. 4010.8696
46. E1BHM6 Mass: 206984 Score: 13
                                                                                                              Expect: 1.2e+003 Matches: 19
                Uncharacterized protein OS=Bos taurus GN=SCN11A PE=4 SV=2

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss
        Ions
        Peptide

        957.5774
        956.5701
        956.5728
        -2.85
        1002
        -1009
        1
        ---
        R.VLEMIN

        1045.5568
        1044.5495
        1044.5426
        6.64
        1329
        -1336
        2
        ---
        K.KYYNAI

                                                                                                                                                                                    R.VLEMIPKK.E
                                                                                                                                                                                    K.KYYNAMKK.L
            1045.5568 1044.5495 1044.5426 6.64 1329 - 1336 2 --- K.KYYNAMKK.L
1057.6100 1056.6027 1056.6027 1056.6291 -24.98 829 - 837 1 13 K.TKIQIALDR.F
1137.5463 1136.5390 1136.5172 19.2 357 - 365 0 --- R.LMTQDSWEK.L
1145.6348 1144.6275 1144.6492 -18.94 686 - 695 0 --- K.SWPTLSTLIK.I
1172.6156 1171.6083 1171.6085 -0.12 867 - 877 1 --- K.EVTEDPGGKIK.D
1318.6750 1317.6677 1317.6751 -5.57 1330 - 1340 2 --- K.SWPTLSTLIK.I
1526.7343 1525.7270 1525.7558 -18.89 45 - 57 0 --- K.AAECEPRPGLDLK.V
2008.9971 2007.9989 2007.9917 -0.93 556 - 570 1 --- R.YLVWDCSPWWLDIKK.V
2097.0200 2096.0127 2096.0203 -3.63 749 - 764 1 --- R.FWHMGDFYHSFLVVFR.I
2284.1841 2283.1768 2283.2144 -16.47 867 - 887 2 --- K.EVTEDPGGKIKDIFLVTGMR.K + Oxidation (M)
2287.1108 2286.1035 2286.0979 2.45 838 - 854 1 --- R.FCRAFCFVIHILEHFFR.K
2392.1462 2391.1389 2391.1780 -16.35 1316 - 1335 2 --- K.SYNAMKLGSK.STGPQPFFMR.V + Oxidation (M)
2759.2573 2758.2500 2758.2003 18.0 1256 - 1279 0 --- K.GWMDIMYAAVDSTEEGGQPQFEAR.S
3110.7285 3109.7212 3109.6860 11.3 1394 - 1419 1 --- K.KSDAASVLSECSTIGPQPFFMR.V + Oxidation (M)
3218.3301 3217.3228 3217.2490 22.9 307 - 331 2 --- K.ESTEFKMCGMWMGNRACPEQYECR.D + 2 Oxidation (M)
No match to: 716.4763, 723.4098, 724.2417, 725.2533, 726.3622, 728.3046, 729.4749, 734.4550, 736.3904, 737.4152, 738.3791, 744.8651, 745.3838, 747.4550, 768.3673, 788.4571, 801.4262, 805.4606, 813.4481, 814.4558, 820.4053, 823.4778, 829.4588, 838.
               1057.6100 1056.6027 1056.6291 -24.98 829 - 837
                                                                                                                                                                                   K.TKIQIALDR.F
               No match to: /16.4/63, /23.4098, /24.241, /25.2533, /26.3622, /28.3046, /29.4/49, /34.4510, /36.3904, /37.4152, /38.3791, 744.8551, 745.3838, 747.45550, 768.3673, 788.4571, 801.4262, 805.4606, 813.4481, 814.4558, 820.4053, 823.4778, 829.4589, 830.4522, 839.3830, 842.5110, 857.4382, 860.4207, 865.4518, 870.4165, 872.5054, 880.4424, 882.4292, 887.4245, 887.9669, 888.4561, 891.4898, 894.4144, 894.8973, 897.5006, 898.4523, 912.5132, 913.5293, 925.4620, 927.4981, 931.4992, 934.5098, 960.5294, 961.4949, 963.4734, 965.4692, 970.5181, 972.4899, 975.5167, 976.5063, 977.5212, 975.5100, 978.5146, 983.6283, 992.4958, 993.5046, 995.4181, 998.5911, 1000.5959, 1002.5007, 1006.5014, 1011.5474, 1012.5447, 1014.5485, 1020.5577, 1021.5699, 1024.5516, 1027.5438, 1028.5397, 1030.5978, 1032.5238, 1036.5260, 1037.5405, 1039.5641, 1040.5908, 1042.5388, 1043.5178, 1046.6018, 1056.5515, 1061.6168, 1074.6073, 1074.6100, 1076.6123, 1102.6077, 1103.6557, 1105.6138, 1107.1058, 1113.5488, 1123.5748, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5984, 1123.5
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                1206.5107, 1209.5889, 1211.6099, 1212.6160, 1215.6743, 1216.7081, 1219.6886, 1227.6234, 1229.7098, 1234.6414, 1240.5974, 1242.6003, 1243.6161, 1253.6216, 1255.5972, 1255.6000, 1260.6227, 1264.7130, 1265.7064, 1269.6498, 1270.6575, 1273.6556, 1277.6305, 1286.6099,
                1289.6875, 1293.6401, 1303.6455, 1304.6677, 1307.6788, 1309.6780, 1319.6589, 1328.6600, 1328.6620, 1331.7888, 1333.7644, 1336.0798, 1336.6155, 1350.6853, 1351.7202, 1356.5811, 1359.1302, 1359.6246, 1365.6489, 1374.7588, 1383.7037, 1390.6974, 1393.7992, 1400.6683, 1401.6989, 1414.8191, 1429.3142, 1436.7889, 1444.7122, 1445.7839, 1450.7223, 1456.7717, 1462.6630, 1467.7329, 1470.7394, 1471.2693,
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               1564.3619, 1565.7223, 1566.7162, 1572.7062, 1580.8400, 1580.8423, 1586.8090, 1597.7913, 1599.8337, 1601.8030, 1614.8046, 1616.7968, 1628.7136, 1630.8103, 1635.7697, 1642.7682, 1643.7688, 1644.7915, 1646.8154, 1651.7681, 1657.7932, 1663.8466, 1664.8557, 1666.7545, 1695.8208, 1707.8933, 1718.8790, 1721.9192, 1722.9375, 1728.8976, 1730.9116, 1732.2391, 1734.1844, 1739.7894, 1743.8966, 1755.2666, 1755.7703, 1757.4702, 1757.9089, 1758.4524, 1758.8987, 1761.9023, 1765.7578, 1768.8339, 1769.8287, 1770.3949, 1772.8273, 1773.8792, 1774.9180, 1774.9200, 1786.8268, 1787.8239, 1809.0499, 1810.0303, 1829.8895, 1830.8380, 1833.3470, 1833.8501, 1851.8885, 1852.0399,
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                2015.9408, 2019.8779, 2025.8735, 2031.9606, 2047.9397, 2062.9578, 2067.0020, 2076.8943, 2081.9827, 2082.9966, 2087.0103, 2088.1108, 2089.1162, 2096.0430, 2108.9771, 2110.0061, 2139.0991, 2140.0918, 2143.1006, 2144.0718, 2149.8516, 2160.0554, 2174.0378, 2178.0471,
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               2239.1538, 2243.1243, 2244.0684, 2254.0896, 2255.1482, 2260.0779, 2270.2183, 2272.1736, 2307.0549, 2309.0659, 2310.0798, 2310.5271, 2311.0454, 2319.0945, 2337.6050, 2341.5510, 2353.0518, 2354.0767, 2355.0564, 2371.0581, 2383.9592, 2388.0437, 2404.0471, 2419.5879,
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               2786.2617, 2787.2400, 2793.2439, 2801.2378, 2803.2302, 2809.2549, 2815.2153, 2817.2322, 2819.2236, 2830.2788, 2833.2280, 2836.2397, 2862.2927, 2873.2961, 2889.2024, 2894.3218, 2927.2520, 2931.3428, 2955.3005, 2974.4124, 2975.4084, 2990.3921, 3006.3206, 3011.2810,
                3020.3557, 3021.2412, 3035.3281, 3053.3447, 3062.2456, 3086.4507, 3091.2622, 3103.3140, 3113.8591, 3130.3557, 3140.4265, 3144.3657,
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                                  Mass: 23636 Score: 13
                                                                                                               Expect: 1.2e+003 Matches: 4
                Ras-related protein Rab-25 OS=Bos taurus GN=RAB25 PE=2 SV=1
              Observed Mr (expt) Mr (calc) ppm Start End Miss Ions Peptide

1020.5577 1019.5504 1019.5685 -17.74 53 - 62 0 --- R.TVMLGTAAIK.A + Oxidation (M)

1057.6100 1056.6027 1056.6179 -14.38 15 - 25 0 13 K.VVLIGESGVGK.T

1057.6107 1056.6034 1056.6179 -13.72 15 - 25 0 --- K.VVLIGESGVGK.T

2082.9966 2081.9893 2081.9767 6.09 35 - 52 1 --- R.NEFSHDSRTTIGVEFSTR.T

No match to: 716.4763, 723.4098, 724.2417, 725.2533, 726.3622, 728.3046, 729.4749, 734.4570, 736.3904, 737.4152, 738.3791,
                 744.8651, 745.3838, 747.4550, 768.3673, 788.4571, 801.4262, 805.4606, 813.4481, 814.4558, 820.4053, 823.4778, 829.4589, 830.4522,
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  3538.4521, 3553.6230, 3579.5403, 3648.1956, 3655.4729, 3664.7500, 3695.6177, 3712.5720, 3738.5837, 3816.7043, 3937.8308, 4010.8696
                                                                          Expect: 1.2e+003 Matches: 13
 008D88 Mass: 51575 Score: 13
Nuclear factor interleukin-3-regulated protein OS=Bos taurus GN=NFIL3 PE=2 SV=1
 No match to: 716.4763, 723.4098, 724.2417, 725.2533, 726.3622, 728.3046, 729.4749, 734.4570, 736.3904, 737.4152, 738.3791, 744.8651, 745.3838, 747.4550, 768.3673, 788.4571, 801.4262, 813.4481, 814.4558, 820.4053, 823.4778, 829.4589, 830.4522, 839.3830, 842.5110, 857.4382, 860.4207, 865.4518, 870.4165, 872.5054, 880.4424, 882.4292, 887.4245, 887.9669, 888.4561, 891.4898, 894.4144,
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  3816.7043, 3937.8308, 4010.8696
 002691
               Mass: 27294 Score: 13
                                                                        Expect: 1.2e+003 Matches: 4
  3-hydroxyacyl-CoA dehydrogenase type-2 OS=Bos taurus GN=HSD17B10 PE=1 SV=3

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss
        Ions
        Peptide

        888.4561
        887.4488
        887.4535
        -5.22
        185 - 192
        0 ---
        R.DLAPMGIR.V + Oxidation (M)

        993.5046
        992.4973
        992.4895
        7.83
        1 - 9
        1 ---
        -.MAAACRSVK.G

        1057.6100
        1056.6027
        1056.5927
        9.45
        70 - 79
        0
        13
        K.DVQAALTLAR.E

                                                                             1 - 9 1 --- -.MAAACRSVK.G
70 - 79 0 13 K.DVQAALTLAR.E
70 - 79 0 --- K.DVQAALTLAR.E
 1057.6107 1056.6034 1056.5927 10.1
 No match to: 716.4763, 723.4098, 724.2417, 725.2533, 726.3622, 728.3046, 729.4749, 734.4570, 736.3904, 737.4152, 738.3791,
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                       Mass: 44049
                                                             Score: 13
                                                                                               Expect: 1.2e+003 Matches: 18
  Uncharacterized protein OS=Bos taurus GN=KIAA0930 PE=4 SV=2

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss
        Ions

        891.4898
        890.4825
        890.4644
        20.4
        296
        - 302
        1
        ---

                                                                                                                                                      R.NRITEMK.K
 1076.6123 1075.6050 1075.5808
                                                                                 22.5
                                                                                                   202 - 211
                                                                                                                                                      R.VSVAARMAQK.M + Oxidation (M)
1234.6414 1233.6341 1233.6466 -10.09 118 - 128 1 --- K.RSQQVFASPSK.H
1318.6750 1317.6677 1317.6565 8.52 267 - 278 0 --- R.VTSFSTPPTPER.N
1336.6155 1335.6082 1335.5951 9.81 219 - 228 1 --- K.YSNMEFVRMK.G + 2 Oxidation (M)
1374.7588 1373.7515 1373.7276 17.4 107 - 118 2 --- R.ADGGDIHIRKR.S
1470.7394 1469.7321 1469.7449 -8.70 28 - 38 2 --- R.QDDMLFYVRRK.L
1553.7252 1552.7179 1552.6906 17.6 303 - 315 1 --- K.KSHSANDSEEFFR.E
1707.8933 1706.8860 1706.8886 -1.51 197 - 211 2 --- K.KSHSANDSEEFFR.E
1707.8933 1706.8860 1706.8886 -1.51 197 - 211 2 --- K.VYDNRVSVAARMAQK.M
1773.8792 1772.8719 1772.8516 11.5 119 - 134 1 --- R.SQQVFASPSKHFMDSK.G
1787.8239 1786.8166 1786.8494 -18.37 219 - 233 2 --- K.YSNMEFVRKGPQGK.G + Oxidation (M)
1936.9479 1935.9406 1935.9699 -15.12 202 - 218 2 --- R.VSVAARMAQKMSFGFYK.Y + Oxidation (M)
2015.9408 2014.9335 2014.9362 -1.31 9 - 23 0 --- R.IVFWTWMFSTYFMEK.W
2031.9606 2030.9533 2030.9311 11.0 9 - 23 0 --- R.IVFWTWMFSTYFMEK.W + Oxidation (M)
2047.9397 2046.9324 2046.9260 3.14 9 - 23 0 --- R.IVFWTWMFSTYFMEK.W + Oxidation (M)
2412.0872 2411.0799 2411.0748 2.11 208 - 226 2 --- R.MAQKMSFGFYKSYNMEFVR.M + 3 Oxidation (M)
2576.1628 2575.1555 2575.1730 -6.79 95 - 116 1 --- K.LDYMVTCAVCTRADGGDIHIHR.K + Oxidation (M)
No match to: 716.4763, 723.4098, 724.2417, 725.2533, 726.3622, 728.3046, 729.4749, 734.4570, 736.3904, 73
 1234.6414 1233.6341 1233.6466 -10.09
                                                                                                  118 - 128
                                                                                                                                                     K.RSQQVFASPSK.H
  No match to: 716.4763, 723.4098, 724.2417, 725.2533, 726.3622, 728.3046, 729.4749, 734.4570, 736.3904, 737.4152, 738.3791,
  744.8651, 745.3838, 747.4550, 768.3673, 788.4571, 801.4262, 805.4606, 813.4481, 814.4558, 820.4053, 823.4778, 829.4589, 830.4522, 839.3830, 842.5110, 857.4382, 860.4207, 865.4518, 870.4165, 872.5054, 880.4424, 882.4292, 887.4245, 887.9669, 888.4561, 894.4144,
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Variable modifications : Oxidation (M)
Mass values
Protein Mass
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Fragment Mass Tolerance: ± 0.5 Da
Max Missed Cleavages
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Mascat: http://www.matrivscience.com

Marrix Mascot Search Results

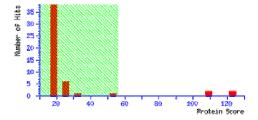
User : 2c_(G5@11273_12Mar2012)
Email : proteomics@ipatimup.pt
Search title : Project: Proteomica, Spot Set: Proteomica\12Jan2012, Label: G5, Spot Id: 221892, Peak List Id: 435350, MS Job Run Id: 303
MS data file : C:\Documents and Settings\Administrator\Desktop\xu\xu\xu\Proteomica\12Jan2012\typw_G5_146796935705.txt

Database : OrganismSpecie Bos_taurus_Reference_Proteome_2016_06 (24214 sequences; 12839866 residues)
Timestamp : 8 Jul 2016 at 10:10:07 GMT
Warning : A Peptide summary report will usually give a much clearer picture of MS/MS search results.
Top Score : 123 for P46193, Annexin Al OS=Bos taurus GM=AMXAl PE=1 SV=2

Mascot Score Histogram

Protein score is -10*Log(P), where P is the probability that the observed match is a random event. Protein scores greater than 56 are significant (p<0.05).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



Protein Summary Report



Index

	Accession	Mass	Score	Description
1.	P46193	39212		Annexin A1 OS=Bos taurus GN=ANXA1 PE=1 SV=2
	F1N650	39240		Annexin OS=Bos taurus GN=ANXA1 PE=1 SV=1
	P04272	38873		Annexin A2 OS=Bos taurus GN=ANXA2 PE=1 SV=2
	P10096	36073	107	
	Q2HJ60	36041	50	Heterogeneous nuclear ribonucleoproteins A2/B1 OS=Bos taurus GN=HNRNPA2B1 PE=2 SV=1
	E1BB48	65458	34	Polypeptide N-acetylgalactosaminyltransferase OS=Bos taurus GN=GALNT2 PE=3 SV=2
7.	P02687	18312		Myelin basic protein OS=Bos taurus GN=MBP PE=1 SV=1
8.	F1N0N9	36314	26	Uncharacterized protein OS=Bos taurus PE=4 SV=1
9.	F6QBP1	18443		Myelin basic protein OS=Bos taurus GN=MBP PE=4 SV=1
10.	G3MZA4	83962	25	Uncharacterized protein OS=Bos taurus GN=CXorf23 PE=4 SV=1
11.	Q3T087	20468	24	60S ribosomal protein L11 OS=Bos taurus GN=RPL11 PE=2 SV=3
12.	F1MI98	52161	23	Uncharacterized protein OS=Bos taurus GN=KRT36 PE=3 SV=2
13.	Q58DL0	26401	22	Chromosome X open reading frame 23 OS=Bos taurus GN=CXorf23 PE=2 SV=1
14.	Q3SZ43	16409	22	Ubiquitin-conjugating enzyme E2 variant 2 OS=Bos taurus GN=UBE2V2 PE=2 SV=3
15.	E1BE64	104496	22	Uncharacterized protein OS=Bos taurus GN=TSGA10 PE=4 SV=2
16.	Q2KIJ9	18752	21	Transcription elongation factor A protein-like 1 OS=Bos taurus GN=TCEAL1 PE=2 SV=1
	G3MYE2	34779	21	Uncharacterized protein OS=Bos taurus PE=3 SV=1
	E1BJY0	22866	20	Guanylyl cyclase-activating protein 2 OS=Bos taurus GN=GUCA1B PE=4 SV=2
	F1MTD8	31878		Tyrosine-protein kinase OS=Bos taurus GN=HCK PE=3 SV=1
	Q2YDN4	58176		Coiled-coil domain-containing protein 105 OS=Bos taurus GN=CCDC105 PE=2 SV=1
	F1MNJ2	65953		Signal recognition particle receptor subunit alpha OS=Bos taurus GN=SRPRA PE=4 SV=1
	Q3MHN7	69222		Endonuclease 8-like 3 OS=Bos taurus GN=NEIL3 PE=2 SV=2
	G3MZK6	94689		Uncharacterized protein OS=Bos taurus GN=MAP7D3 PE=4 SV=1
	P02548	62665		Neurofilament light polypeptide OS=Bos taurus GN=NEFL PE=1 SV=3
	E1BF55	69481		Uncharacterized protein OS=Bos taurus GN=MAP7D2 PE=4 SV=2
	E1BGS4	63649		Uncharacterized protein OS=Bos taurus GN=TXLNA PE=4 SV=1
	Q32LI7	30313		Putative uncharacterized protein MGC133880 OS=Bos taurus GN=MGC133880 PE=2 SV=1
	Q8MKH7 G5E6L5	29800 47201		Troponin T fast skeletal muscle type OS=Bos taurus GN=Tnnt3 PE=2 SV=1 Centrosomal protein of 290 kDa OS=Bos taurus GN=CEP290 PE=4 SV=1
	F1MJU1	14824		Histone H2B OS-Bos taurus PE-3 SV-2
	G3MYI2	118628		Uncharacterized protein OS=Bos taurus PE=4 SV=1
	E1BP00	59905		Oncharacterized protein OS-Bos taurus Fr-4 3V-1 PC4 and SFRS1-interacting protein OS-Bos taurus GN-PSIP1 PE-4 SV-2
	A4FV84	27623		mRNA turnover protein 4 homolog OS=Bos taurus GN=MRT04 PE=2 SV=1
	G8JL04	5563		Uncharacterized protein OS-Bos taurus PE-4 SV-1
	Q02366	15044		NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 6 OS=Bos taurus GN=NDUFA6 PE=1 SV=2
	G3MZ91	14728		Histone H2B OS=Bos taurus PE=3 SV=1
	F1MEY1	167004		Uncharacterized protein OS=Bos taurus GN=ATAD2B PE=4 SV=2
	F1N469	96792		Uncharacterized protein OS=Bos taurus GN=MAP7D3 PE=4 SV=2
	F1MIS2	9764		Uncharacterized protein OS=Bos taurus PE=3 SV=2
40.	F1MHH2	64063	19	Outer dense fiber protein 2-like OS=Bos taurus GN=ODF2L PE=4 SV=2
41.	E1BPQ8	60653	19	Uncharacterized protein OS=Bos taurus GN=CDC73 PE=4 SV=1
42.	Q2TA00	49021	18	Coiled-coil domain-containing protein 83 OS=Bos taurus GN=CCDC83 PE=2 SV=1
43.	E1B992	72756	18	Uncharacterized protein OS=Bos taurus PE=4 SV=2
	F1MB20	119646	18	Oral-facial-digital syndrome 1 isoform 1 OS=Bos taurus GN=OFD1 PE=2 SV=2
	E1BI42	127633	18	Uncharacterized protein OS=Bos taurus GN=CCDC158 PE=4 SV=2
	G3MWK4	30649		Uncharacterized protein OS=Bos taurus GN=SRSF12 PE=4 SV=1
	E1BLN1	117436		Uncharacterized protein OS=Bos taurus GN=SYCP1 PE=4 SV=1
48.	G3N2Q8	20708	18	Uncharacterized protein OS=Bos taurus GN=ISG20 PE=4 SV=1

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49. Q32L31 23052 18 High mobility group protein B3 OS=Bos taurus GN=HMGB3 PE=2 SV=2 50. 17FVA7 23052 18 HMGB3 transcript variant 1/2 OS=Bos taurus GN=HMGB3 PE=4 SV=1
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Results List

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                                                               Expect: 1.2e-008 Matches: 27
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                                     Mr(calc)
                                                                             End Miss Ions Peptide
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                                     766.4813
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                  771.4105
                                     771.4028
                                                      10.1
                                                                  229 - 234
                                                                                     0 ---
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                                     787.4300 -18.81
                                                                  145 - 150
                                                                                                     R.TNREIR.E
 788.4225
 822.4321
                  821.4249
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                                                                  82 - 88 0 ---
                                                                                                    K.AAYLQEK.G
 908 4577
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                                                      11.6
                                                                  205 - 212
                                                                                      0 ---
                                                                                                    R.ALYEAGER.R
                  927.4958
                                     927.5039 -8.72
                                                                  229 - 235 1 --- R.SYPHLRR.V
  928.5031
                                                                  2 - 9 0 --- M.AMVSEFLK.Q + Oxidation (M)
338 - 346 1 --- K.ILVALCGRD.-
205 - 213 1 --- R.ALYEAGERR.K
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                                                     -3.75
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1064.5358 1063.5285 1063.5410 -11.75
                                                                                      0 --- -.MAMVSEFLK.Q + Oxidation (M)
2 21 R.VYREELKR.D
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1092.6000 1091.5927 1091.6087 -14.64
                                                                                          --- R.VYREELKR.D
--- K.TPAQFDAEELR.A
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1276.5977
                 1275.5904 1275.6095 -14.96
                                                                  114 - 124
1276.6000 1275.5927 1275.6095 -13.16
                                                                                           76 K.TPAQFDAEELR.A
                                                                 240 - 250 2 --- K.YSKYSKHDMNK.V
270 - 281 0 --- K.CATSQPMFFAEK.L
1400.6588 1399.6515 1399.6554 -2.77
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1677.8074 1676.8001 1676.8192 -11.36 114 - 128 1 --- K.TPAQFDAEELRAAMK.G
1703.8214 1702.8141 1702.8373 -13.63 129 - 144 0 --- K.GLGTDEDTLNEILASR.T
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    -7.95

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    -3.21

                                                                 10 - 23 0 --- K.QAWFIENEEQEYIK.T
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                                                                  10 - 26 1 --- K.QAWFIENEEQEYIKTVK.G
295 - 312 2 --- K.TLIRIMVSRSEIDMNDIK.A + 2 Oxidation (M)
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2166.0911 2165.0838 2165.1184 -15.97
                                                                  30 - 53 0 --- K.GGPGSAVSPYPTFNPSSDVEALHK.A
27 - 53 1 --- K.GSKGGPGSAVSPYPTFNPSSDVEALHK.A
2414.1833 2413.1760 2413.1550
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2686.3572 2685.3499 2685.3035
                                                       17.3
                                                                  258 - 281 2 ---
2788.3362 2787.3289 2787.3645 -12.78
                                                                                                    K.GDIEKCLTVIVKCATSQPMFFAEK.L + Oxidation (M)
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1258.6344, 1268.6414, 1271.6490, 1275.6388, 1285.5864, 1294.6315, 1299.6810, 1300.6566, 1309.6340, 1320.6268, 1328.6292, 1333.7025, 1336.6038, 1338.6589, 1341.6488, 1343.6613, 1345.6910, 1349.6838, 1350.6704, 1352.6350, 1355.6870, 1357.7130, 1358.6704, 1369.7067,
 1371.7366, 1374.6705, 1377.6100, 1377.6146, 1384.7109, 1386.7134, 1390.6848, 1393.7169, 1399.6119, 1406.7207, 1410.6736, 1411.6647, 1418.6714, 1421.6632, 1425.7395, 1426.6846, 1427.7076, 1430.7102, 1432.6718, 1434.6552, 1438.6991, 1439.7164, 1443.7589, 1444.7375,
 1445.7306, 1454.6836, 1461.7990, 1472.7026, 1475.7224, 1485.6906, 1489.7172, 1490.7058, 1493.7157, 1510.7383, 1515.7393, 1523.6987
 1524.7383, 1527.7585, 1529.7466, 1530.6902, 1531.6953, 1537.7804, 1538.7736, 1539.7621, 1541.7805, 1542.8290, 1549.6758, 1553.7277, 1555.7928, 1556.7874, 1560.7551, 1563.7314, 1568.7372, 1570.8015, 1572.8151, 1576.7402, 1577.7395, 1578.7518, 1581.8373, 1591.7852,
 1600.8068, 1603.8092, 1604.8136, 1606.8130, 1608.7599, 1613.7793, 1615.8575, 1615.8600, 1624.7632, 1628.7653, 1633.7913, 1634.7969, 1635.7941, 1639.8157, 1643.8085, 1646.8591, 1647.8268, 1651.8206, 1653.8284, 1681.8087, 1688.8287, 1690.8313, 1694.7357, 1697.8672,
 1706.8364, 1707.8435, 1708.3533, 1709.3307, 1710.8229, 1715.8053, 1721.8296, 1724.8828, 1725.8090, 1730.8199, 1748.7931, 1757.8975, 1763.7841, 1768.8075, 1771.9686, 1774.9059, 1777.8727, 1779.8081, 1786.8824, 1787.8207, 1790.8423, 1793.9556, 1796.8109, 1797.8339,
 1800.8578, 1815.9008, 1819.8838, 1821.8926, 1822.9185, 1829.8655, 1833.8975, 1836.9054, 1843.8765, 1844.8785, 1851.9031, 1859.8494,
1862.9265, 1863.9319, 1866.8857, 1868.8972, 1879.9445, 1880.9215, 1887.9023, 1888.8057, 1890.8025, 1896.8954, 1901.0060, 1906.8872, 1908.8663, 1913.8895, 1916.9475, 1924.9314, 1925.9336, 1928.0060, 1931.9956, 1932.9833, 1968.8563, 1984.9392, 2008.0485, 2008.9869,
 2009.9747, 2012.9506, 2015.9661, 2020.9644, 2030.0151, 2030.4648, 2046.9839, 2047.5186, 2051.9133, 2059.0122, 2064.9746, 2070.9209, 2077.0454, 2082.9409, 2085.9888, 2090.9844, 2097.9778, 2103.1526, 2108.9897, 2118.8926, 2140.0432, 2142.0310, 2142.9895, 2152.0510,
2159.0752, 2160.0703, 2161.0813, 2167.0676, 2174.0425, 2178.0034, 2181.0369, 2184.0767, 2189.9133, 2194.9761, 2199.0986, 2203.0464, 2205.9102, 2208.9729, 2211.1077, 2213.1116, 2214.1145, 2218.1018, 2221.1035, 2223.2205, 2225.1592, 2229.1064, 2233.1023, 2245.0991,
 2269.1128, 2273.0393, 2277.0576, 2279.1094, 2280.1204, 2283.1279, 2285.1169, 2292.1465, 2296.1479, 2312.0664, 2323.1892, 2326.0947, 2334.1531, 2335.1282, 2337.1343, 2369.2256, 2372.2229, 2383.9978, 2385.2129, 2392.1528, 2400.1094, 2401.1360, 2409.1914, 2411.1907,
 2429.1475, 2436.1699, 2437.1758, 2440.2007, 2447.2368, 2477.1301, 2495.0542, 2498.0898, 2510.2229, 2522.1980, 2524.1689, 2527.2310,
2535.2598, 2541.2075, 2543.1907, 2544.1514, 2553.1934, 2557.2300, 2560.1125, 2569.2915, 2572.0935, 2612.1936, 2963.6167, 3056.4641, 3058.5842, 3180.5432, 3313.5032, 3330.6311, 3347.6077, 3511.9668, 3761.1558
                                       Score: 123
F1N650
               Mass: 39240
                                                             Expect: 1.2e-008 Matches: 27
Annexin OS=Bos taurus GN=ANXA1 PE=1 SV=1
 Observed
                                     Mr(calc)
                                                       ppm Start End Miss Ions Peptide
                  Mr(expt)
                                     766.4813
                                                                293 - 298 1 --- R.HKTLIR.I
                   771.4105
                                     771.4028
                                                       10.1
                                                                                                     R.SYPHLR.R
                                     787.4300 -18.81
                   821.4249
                                     821.4283
                                                     -4.18
                                                                                                    K.AAYLQEK.G
                                                                  205 - 212 0 --- R.ALYEAGER.R
                   927.4958
                                     927.5039
                                                     -8.72
                                                                 229 - 235
                                                                                       1 --- R.SYPHLRR.V
                                                                                      0 --- M.AMVSEFLK.Q + Oxidation (M)
                   939.4700
                                     939.4735
                                                     -3.75
1016.5522 1015.5449 1015.5484
                                                     -3.47
                                                                                       1 --- K.ILVALCGRD.-
1064.5358 1063.5285 1063.5410 -11.75
                                                                  205 - 213 1 --- R.ALYEAGERR.K
1071.5361 1070.5288 1070.5140 13.8
                                                                                     0 ---
                                                                                                     -.MAMVSEFLK.Q + Oxidation (M)
                                                                     1 - 9
1092.6000 1091.5927 1091.6087 -14.64
                                                                  155 - 162 2 21 R.VYREELKR.D
1092.6002 1091.5929 1091.6087 -14.46
                                                                  155 - 162
                                                                                                    R.VYREELKR.D
1276.5977 1275.5904 1275.6095 -14.96
                                                                  114 - 124
                                                                                      0 ---
                                                                                                    K.TPAOFDAEELR.A
                                                                                      0 76
1276.6000 1275.5927 1275.6095 -13.16
                                                                   114 - 124
                                                                                                    K.TPAOFDAEELR.A
                                                                  240 - 250
                                                                                      2 ---
1400.6588 1399.6515 1399.6554
                                                    -2.77
                                                                                                    K.YSKYSKHDMNK.V
                                                                                      0 ---
1416.6047 1415.5974 1415.6214 -16.90
                                                                   270 - 281
                                                                                                    K.CATSOPMFFAEK.L
                                                                                      1 --- K.TPAQFDAEELRAAMK.G
1677.8074 1676.8001 1676.8192 -11.36
                                                                  114 - 128
```

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No match to: 724.2539, 725.2472, 728.2482, 730.2519, 732.2390, 733.2623, 739.3115, 742.4642, 743.4729, 745.4483, 747.4419, 752.3972, 754.3827, 756.3716, 758.3382, 760.3329, 764.3364, 766.3494, 768.3865, 770.3671, 779.4436, 784.3415, 787.2366, 790.4196, 795.4260, 799.2464, 802.4372, 805.4478, 808.4353, 811.4178, 814.4170, 819.4304, 821.4247, 829.4457, 837.4396, 840.4623, 842.5109,
   854.4525, 856.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.505, 859.50
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    1222.5789, 1227.6271, 1228.6411, 1229.6412, 1231.6102, 1233.6571, 1237.6270, 1238.5917, 1244.6069, 1248.5958, 1250.6042, 1255.5922,
    1258.6344, 1268.6414, 1271.6490, 1275.6388, 1285.5864, 1294.6315, 1299.6810, 1300.6566, 1309.6340, 1320.6268, 1328.6292, 1333.7025, 1336.6038, 1338.6589, 1341.6488, 1343.6613, 1345.6910, 1349.6838, 1350.6704, 1352.6350, 1355.6870, 1357.7130, 1358.6704, 1369.7067,
    1371.7366, 1374.6705, 1377.6100, 1377.6146, 1384.7109, 1386.7134, 1390.6848, 1393.7169, 1399.6119, 1406.7207, 1410.6736, 1411.6647, 1418.6714, 1421.6632, 1425.7395, 1426.6846, 1427.7076, 1430.7102, 1432.6718, 1434.6552, 1438.6991, 1439.7164, 1443.7589, 1444.7375,
    1445.7306, 1454.6836, 1461.7990, 1472.7026, 1475.7224, 1485.6906, 1489.7172, 1490.7058, 1493.7157, 1510.7383, 1515.7393, 1523.6987, 1524.7383, 1527.7585, 1529.7466, 1530.6902, 1531.6953, 1537.7804, 1538.7736, 1539.7621, 1541.7805, 1542.8290, 1549.6758, 1553.7277,
    1555.7928, 1556.7874, 1560.7551, 1563.7314, 1568.7372, 1570.8015, 1572.8151, 1576.7402, 1577.7395, 1578.7518, 1581.8373, 1591.7852, 1600.8068, 1603.8092, 1604.8136, 1606.8130, 1608.7599, 1613.7793, 1615.8575, 1615.8600, 1624.7632, 1628.7653, 1633.7913, 1634.7969,
    1635.7941, 1639.8157, 1643.8085, 1646.8591, 1647.8268, 1651.8206, 1653.8284, 1681.8087, 1688.8287, 1690.8313, 1694.7357, 1697.8672, 1706.8364, 1707.8435, 1708.3533, 1709.3307, 1710.8229, 1715.8053, 1721.8296, 1724.8828, 1725.8090, 1730.8199, 1748.7931, 1757.8975,
     1763.7841, 1768.8075, 1771.9686, 1774.9059, 1777.8727, 1779.8081, 1786.8824, 1787.8207, 1790.8423, 1793.9556, 1796.8109, 1797.8339,
    1800.8578, 1815.9008, 1819.8838, 1821.8926, 1822.9185, 1829.8655, 1833.8975, 1836.9054, 1843.8765, 1844.8785, 1851.9031, 1859.8494, 1862.9265, 1863.9319, 1866.8857, 1868.8972, 1879.9445, 1880.9215, 1887.9023, 1888.8057, 1890.8025, 1896.8954, 1901.0060, 1906.8872,
    1908.8663, 1913.8895, 1916.9475, 1924.9314, 1925.9336, 1928.0060, 1931.9956, 1932.9833, 1968.8563, 1984.9392, 2008.0485, 2008.9869,
    2009.9747. 2012.9506. 2015.9661. 2020.9644. 2030.0151. 2030.4648. 2046.9839. 2047.5186. 2051.9133. 2059.0122. 2064.9746. 2070.9209.
    2077.0454, 2082.9409, 2085.9888, 2090.9844, 2097.9778, 2103.1526, 2108.9897, 2118.8926, 2140.0432, 2142.0310, 2142.9895, 2152.0510,
   2159.0752, 2160.0703, 2161.0813, 2167.0676, 2174.0425, 2178.0034, 2181.0369, 2184.0767, 2189.9133, 2194.9761, 2199.0986, 2203.0464, 2205.9102, 2208.9729, 2211.1077, 2213.1116, 2214.1145, 2218.1018, 2221.1035, 2223.2205, 2225.1592, 2229.1064, 2233.1023, 2245.0991,
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   2429.1475, 2436.1699, 2437.1758, 2440.2007, 2447.2368, 2477.1301, 2495.0542, 2498.0896, 2510.2229, 2522.1980, 2524.1689, 2527.2310, 2535.2598, 2541.2075, 2543.1907, 2544.1514, 2553.1934, 2557.2300, 2560.1125, 2569.2915, 2572.0935, 2612.1936, 2963.6167, 3056.4641,
    3058.5842, 3180.5432, 3313.5032, 3330.6311, 3347.6077, 3511.9668, 3761.1558
                                Mass: 38873
                                                                     Score: 109
                                                                                                                   Expect: 3e-007 Matches: 37
    Annexin A2 OS=Bos taurus GN=ANXA2 PE=1 SV=2

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss
        Ions
        Peptide

        743.4729
        742.4656
        742.4701
        -6.04
        285
        - 290
        1
        ---
        R.DKVLII

743.4729 742.4650 7...
745.4483 744.4410 744.4568 -21.13 170 - 1/6 0
756.3716 755.3643 755.3524 15.8 274 - 279 0 --- R.LYDSMK.G
779.4436 778.4363 778.4337 3.35 303 - 308 1 --- K.TRSEFK.K
821.4247 820.4174 820.4000 21.2 296 - 302 0 --- R.SEVDMLK.I
880.4412 879.4339 879.4338 0.17 197 - 204 0 --- R.DLYDAGVK.R
960.4840 959.4767 959.4786 -2.01 146 - 152 1 --- R.VYKEMYK.T
1035.5203 1034.5130 1034.5219 -8.56 213 - 220 0 --- K.WISIMTER.S
1051.5074 1050.5001 1050.5168 -15.87 213 - 220 0 --- K.WISIMTER.S + Oxidation (M)
1086.4774 1085.4701 1085.4778 -7.04 29 - 37 0 --- K.WISIMTER.D
1111.5398 1110.5325 1110.5458 -11.95 69 - 77 0 --- R.QDIAFAYQR.R
111 5400 1110.5327 1110.5458 -11.77 69 - 77 0 63 R.QDIAFAYQR.R
111 5400 1110.5327 1110.5458 -11.77 69 - 77 0 63 R.QDIAFAYQR.R
111 5400 1110.5327 1110.5458 -11.77 69 - 77 0 63 R.QDIAFAYQR.R
                                                                                                                                                                                     R.DKVLIR.I
  1222.5789 1221.5716 1221.5877 -13.17 105 - 115 0 --- K.TPAQYDASELK.A 1244.6069 1243.5996 1243.6156 -12.88 136 - 145 0 --- R.TNQELQEINR.V
1244.6069 1243.5996 1243.6156 -12.88 136 - 145 0 --- R.TNQELQEINR.V
1271.6490 1270.6417 1270.6340 6.11 274 - 284 2 --- R.LYDSMKGKGTR.D + Oxidation (M)
1421.6632 1420.6559 1420.6874 -22.17 314 - 324 0 --- K.SLYPYIQQDTK.G
1432.6718 1431.6645 1431.6591 3.75 234 - 245 0 --- K.SYSPYDMLESIK.K
1439.7164 1438.7091 1438.7160 -4.76 291 - 302 1 --- K.SYSPYDMLESIK.E
1542.8290 1541.8217 1541.8413 -12.71 50 - 63 0 --- K.GYDEVTIVNILTNR.S
1560.7551 1559.7478 1559.7541 -4.03 234 - 246 1 --- K.SYSPYDMLESIKK.E
1576.7402 1575.7329 1575.7490 -10.22 234 - 246 1 --- K.SYSPYDMLESIKK.E + Oxidation (M)
1581.8373 1580.8300 1580.8232 4.32 296 - 308 2 --- R.SEVDMLKIRSEFK.K
1639.8157 1638.8084 1638.7923 9.85 105 - 119 1 --- K.TPAQYDASELKASMK.G
1725.8090 1724.8017 1724.8230 -12.34 64 - 77 1 --- R.SNEGRQDIAFAYQR.R
1777.9686 1770.9613 1770.9840 -12.78 48 - 63 1 --- K.TKGVDEVTIVNILTNR.S
1777.8727 1776.8654 1776.8564 5.10 120 - 135 0 --- K.GLGTDEDSLIEIICSR.T
1797.8339 1796.8266 1796.8429 -9.03 153 - 168 1 --- K.TDLEKDIVSDTSGDFR.K
1844.8785 1843.8712 1843.8952 -13.00 11 - 28 0 --- K.LSLEGDHSTPPSAYGSVK.A
1851.9031 1850.8958 1850.9124 -8.95 232 - 246 2 --- R.YKSYSPYDMLESIKK.E
1908.8663 1907.8590 1907.8748 -8.29 180 - 196 0 --- R.AEDGSVIDYELIDQDAR.D
1916.9475 1915.9402 1915.9601 -10.36 234 - 249 2 --- K.SYSPYDMLESIKKEKK.G

      1908.8663
      1907.8590
      1907.8748
      -8.29
      180 - 196
      0 ---
      R.AEDGSVIDVELIDQDAR.D

      1916.9475
      1915.9402
      1915.9601
      -10.36
      234 - 249
      2 ---
      K.SYSPYDMLESIKKEVK.G

      1925.9336
      1924.9263
      1924.9378
      -5.96
      153 - 169
      2 ---
      K.TDLEKDIVSDTSGDFRK.L

      1932.9833
      1931.9760
      1931.9550
      10.9
      234 - 249
      2 ---
      K.SYSPYDMLESIKKEVK.G + Oxidation (M)

      2012.9506
      2011.9433
      2011.9527
      -4.66
      314 - 349
      1 ---
      K.SIYYYIQQDTKGDYQR.A

      2064.9746
      2063.9673
      2063.9760
      -4.18
      179 - 196
      1 ---
      R.RAEDGSVIDYELIDQDAR.D

      2155.0667
      2154.0594
      2154.0593
      0.07
      29 - 47
      1 ---
      K.AYINFDAERDALNIETAIK.T

  2211.1077 2210.1004 2210.0559
                                                                                                                       116 - 135 1 --- K.ASMKGLGTDEDSLIEIICSR.T + Oxidation (M)
                                                                                                     20.2
   No match to: 724.2539, 725.2472, 728.2482, 730.2519, 732.2390, 733.2623, 739.3115, 742.4642, 747.4419, 752.3972, 754.3827,
         8.3382, 760.3329, 764.3364, 766.3494, 767.4740, 768.3865, 770.3671, 772.4178, 784.3415, 787.2366, 788.4225, 790.4196, 795.4260,
    799.2464, 802.4372, 805.4478, 808.4353, 811.4178, 814.4170, 819.4304, 822.4321, 829.4457, 837.4396, 840.4623, 842.5109, 854.4525, 856.5045, 858.5442, 860.4092, 863.4233, 863.9185, 869.4846, 870.5100, 872.4994, 904.4613, 906.4929, 908.4577, 913.5685, 919.5024,
    925.5089, 927.4999, 928.5031, 940.4773, 942.4820, 950.4946, 957.5654, 966.4929, 969.4786, 972.5046, 974.5551, 977.5352, 978.524, 981.4474, 989.2700, 991.5198, 993.5112, 1001.5782, 1007.5089, 1009.5097, 1013.4454, 1015.5150, 1016.5522, 1018.5189, 1021.5313,
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2963.6167, 3056.4641, 3058.5842, 3180.5432, 3313.5032, 3330.6311, 3347.6077, 3511.9668, 3761.1558
P10096
             Mass: 36073
                                      Glyceraldehyde-3-phosphate dehydrogenase OS=Bos taurus GN=GAPDH PE=1 SV=4
 Observed
                  Mr (expt)
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        Mr (calc)
        ppm
        Start
        End Miss
        Ions
        Peptide

        751.3864
        4.60
        138 - 143
        0 ---
        K.YNNTLK.I

        794.4174
        1.63
        253 - 258
        1 ---
        K.YDEIKK.V

| No. 
    752.3972
                                  751.3899
1615.8600 1614.8527 1614.8729 -12.51 71 - 84 1 60 K.AITIFQERDPANIK.W
1697.8672 1696.8599 1696.8856 -15.14 196 - 213 1 --- R.DGRGAQNIFPASTGARK.A
1763.7841 1762.7768 1762.7951 -10.35 308 - 321 0 --- K.LISWYDNEFGYSNR.V
1819.8838 1818.8765 1818.8968 -11.14 144 - 160 0 --- K.IVSNASCTINCLAPLAK.V
2213.1116 2212.1043 2212.1020 1.03 117 - 137 0 --- R.VIISAPSADAPMFVMGVNHEK.Y
2223.2205 2222.2132 2222.2039 1.77 233 - 252 1 --- R.VPIFDNVSVVDLTCRLEKPAK.Y
2229.1064 2228.0991 2228.0991 0.97 117 - 137 0 --- R.VIISAPSADAPMFVMGVNHEK.Y + Oxidation (M)
2245.0991 2244.0918 2244.0919 -0.02 117 - 137 0 --- K.VIISAPSADAPMFVMGVNHEK.Y + 2 Oxidation (M)
2277.0576 2276.0503 2276.0307 8.61 85 - 105 0 --- K.WGDAGAEYVVESTGVFTTMEK.A
2369.2256 2368.2183 2368.2031 6.41 116 - 137 1 --- K.RVIISAPSADAPMFVMGVNHEK.Y + Oxidation (M)
3347.6077 3346.6004 3346.5679 9.72 26 - 53 0 --- K.VIISAPSADAPMFVMGVNHEK.Y + Oxidation (M)
No match tc: 724.2539, 725.2472, 728.2482, 730.2519, 732.2390, 733.2633, 739.3115, 742.4642, 743.4729, 745.4483
  No match to: 724.2539, 725.2472, 728.2482, 730.2519, 732.2390, 733.2623, 739.3115, 742.4642, 743.4729, 745.4483, 747.4419, 754.3827, 756.3716, 758.3382, 760.3329, 764.3364, 766.3494, 767.4740, 768.3865, 770.3671, 772.4178, 779.4436, 784.3415, 787.2366, 788.4225, 790.4196, 799.2464, 808.4353, 814.4170, 819.4304, 821.4247, 822.4321, 837.4396, 840.4623, 842.5109, 854.4525, 856.5045, 856.5442, 860.4029, 863.4233, 863.4938, 8185, 869.4846, 870.5100, 872.4994, 880.4412, 904.4613, 906.4929, 908.4577, 913.5685, 919.5024, 925.5089, 927.4999, 928.5031, 940.4773, 942.4820, 950.4946, 957.5654, 960.4840, 966.4929, 969.4786, 972.5046, 974.5551, 978.5240,
   981.4474, 989.2700, 991.5198, 993.5112, 1001.5782, 1007.5089, 1009.5097, 1013.4454, 1015.5150, 1016.5522, 1018.5189, 1021.5313, 1024.5028, 1025.5192, 1029.5330, 1033.5739, 1035.5203, 1045.5564, 1046.5759, 1051.5074, 1056.5415, 1057.6005, 1064.5358, 1071.5361,
    1073.5377, 1079.5398, 1083.4637, 1086.4774, 1092.6000, 1092.6002, 1094.5596, 1096.5302, 1106.5431, 1110.5461, 1111.5398, 1111.5400,
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   2142.9895, 2152.0510, 2155.0667, 2159.0752, 2160.0703, 2161.0813, 2166.0911, 2167.0676, 2174.0425, 2178.0034, 2181.0369, 2184.0767,
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   3058.5842, 3180.5432, 3313.5032, 3330.6311, 3511.9668, 3761.1558
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Q2HJ60
                   Mass: 36041
                                               Score: 50
                                                                            Expect: 0.24 Matches: 13
  Heterogeneous nuclear ribonucleoproteins A2/B1 OS=Bos taurus GN=HNRNPA2B1 PE=2 SV=1

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss Ions
        Peptide

        1013.4454
        1012.4381
        1012.4363
        1.82
        192 - 201
        0 ---
        R.GGNFGI

                                                                                                                            R.GGNFGFGDSR.G
 1013.4454 1012.4381 1012.4363
 1221.5699 1220.5626 1220.5455
                                                                    14.0
                                                                                  179 - 188
                                                                                                         0 ---
                                                                                                                            R.QEMQEVQSSR.S
 1377.6100 1376.6027 1376.6222 -14.14 202 - 216 0 38 R.GGGGNFGPGPGSNFR.G
2205.9102 2204.9029 2204.8930 4.48 314 - 338 0 --- R.NMGGPYGGGNYGPGGSGGGGGGG.S + Oxidation (M) 2495.0542 2494.0469 2494.0323 5.85 227 - 254 0 --- R.GFGDGYNGYGGGPGGNFGGSPGYGGG.G
  No match to: 724.2539, 725.2472, 728.2482, 730.2519, 732.2390, 733.2623, 739.3115, 742.4642, 743.4729, 745.4483, 747.4419, 752.3972, 754.3827, 756.3716, 758.3382, 760.3329, 764.3364, 766.3494, 767.4740, 768.3865, 770.3671, 772.4178, 779.4436, 784.3415, 787.2366, 788.4225, 790.4196, 795.4260, 799.2464, 802.4372, 805.4478, 808.4353, 811.4178, 814.4170, 819.4304, 821.4247, 822.4321,
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   1708.3533, 1709.3307, 1710.8229, 1715.8053, 1719.8075, 1721.8296, 1723.8743, 1724.8828, 1725.8090, 1730.8199, 1748.7931, 1757.8975,
  1763.7841, 1768.8075, 1771.9686, 1774.9059, 1777.8727, 1779.8081, 1786.8824, 1787.8207, 1790.8423, 1793.9556, 1796.8109, 1797.8339, 1800.8578, 1815.9008, 1819.8838, 1821.8926, 1822.9185, 1826.8450, 1829.8655, 1833.8975, 1836.9054, 1843.8765, 1844.8785, 1859.8494,
  1862.9265, 1863.9319, 1866.8857, 1868.8972, 1880.9215, 1887.9023, 1888.8057, 1890.8025, 1896.8954, 1901.0060, 1906.8872, 1908.8663, 1913.8895, 1916.9475, 1924.9314, 1925.9336, 1928.0060, 1931.9956, 1932.9833, 1968.8563, 1984.9392, 2008.9869, 2009.9747, 2012.9506,
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  3056.4641, 3058.5842, 3180.5432, 3313.5032, 3330.6311, 3347.6077, 3511.9668, 3761.1558
  E1BB48
                                               Score: 34
                                                                            Expect: 9 Matches: 28
                    Mass: 65458
  Polypeptide N-acetylgalactosaminyltransferase OS=Bos taurus GN=GALNT2 PE=3 SV=2
                                                                  ppm Start End Miss Ions Peptide
   Observed Mr(expt) Mr(calc)
                                                                    13.5 357 - 363 1 --- R.VGHVFRK.Q
6.95 421 - 427 0 --- K.LNCKPFK.W
   842.5109
                                              841.4923
                        841.5036
                        905.4856
   906.4929
                                              905.4793
 1229.6412 1228.6339 1228.6636 -24.16 207 - 218 2 --- R.SRVRGADAAQAK.V
1244.6069 1243.5996 1243.5721 22.2 43 - 52 0 --- K.EDWNDIDPIK.K
1258.6344 1257.6271 1257.6142 10.3 394 - 404 0 --- K.NFYYAAVPSAR.N
1345.6910 1344.6837 1344.6932 -7.05 112 - 122 2 --- K.LRMDRAVPDTR.H + Oxidation (M)
1358.6704 1357.6631 1357.6483 11.0 492 - 502 0 --- K.HMDLCLTVVDR.A
1374.6705 1373.6632 1373.6432 14.6 492 - 502 0 --- K.HMDLCLTVVDR.A + Oxidation (M)
1411.6647 1410.6574 1410.6887 -22.19 303 - 315 0 --- K.TPMIAGGLFVMDK.F + 2 Oxidation (M) 1490.7058 1489.6985 1489.7056 -4.72 510 - 521 2 --- K.LQCCRENDSRQK.W 1527.7585 1526.7512 1526.7623 -7.28 533 - 546 1 --- R.HVGSNLCLDSRAAK.T 1615.8575 1614.8502 1614.8478 1.52 520 - 532 2 --- R.QKWEQIEGNSKLR.H
2369.2256 2368.2183 2368.2038 6.15
                                                                                 421 - 438 1 --- K.LNCKPFKWYLENVYPELR.V
 2409.1914 2408.1841 2408.1796 1.87 303 - 323 1 ---
                                                                                                                           K.TPMIAGGLFVMDKFYFEELGK.Y + Oxidation (M)
 2477.1301 2476.1228 2476.1077
                                                                     6.09
                                                                                   80 - 101
                                                                                                                           R.DFNQEAYVGGTMVRSGQDPYAR.N + Oxidation (M)
 No match to: 724.2539, 725.2472, 728.2482, 730.2519, 732.2390, 733.2623, 739.3115, 742.4642, 743.4729, 745.4483, 747.4419, 752.3972, 754.3827, 756.3716, 758.3382, 760.3329, 764.3364, 766.3494, 767.4740, 768.3865, 770.3671, 772.4178, 779.4436, 784.3415, 787.2366, 788.4225, 790.4196, 795.4260, 799.2464, 802.4372, 805.4478, 808.4353, 811.4178, 814.4170, 819.4304, 821.4247, 822.4321, 829.4457, 837.4396, 840.4623, 854.4525, 856.5045, 858.5442, 860.4092, 863.4233, 863.9185, 869.4846, 870.5100, 872.4994, 880.4412, 904.4613, 908.4577, 913.5685, 919.5024, 925.5089, 927.4999, 928.5031, 940.4773, 942.4820, 950.4946, 957.5654, 960.4840, 966.4929, 966.4929, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977.5040, 977
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  1276,6000, 1285,5864, 1294,6315, 1299,6810, 1300,6566, 1309,6340, 1320,6268, 1328,6292, 1333,7025, 1336,6038, 1338,6589, 1341,6488,
   1343.6613, 1349.6838, 1350.6704, 1352.6350, 1355.6870, 1357.7130, 1369.7067, 1371.7366, 1377.6100, 1377.6146, 1384.7109, 1386.7134,
  1390.6848, 1393.7169, 1399.6119, 1400.6588, 1406.7207, 1410.6736, 1416.6047, 1418.6714, 1421.6632, 1425.7395, 1426.6846, 1427.7076, 1430.7102, 1432.6718, 1434.6552, 1438.6991, 1439.7164, 1443.7589, 1444.7375, 1445.7306, 1454.6836, 1461.7990, 1472.7026, 1475.7224,
  1485.6906, 1489.7172, 1493.7157, 1510.7383, 1515.7393, 1523.6987, 1524.7383, 1529.7466, 1530.6902, 1531.6953, 1537.7804, 1538.7736, 1539.7621, 1541.7805, 1542.8290, 1549.6758, 1553.7277, 1555.7928, 1556.7874, 1560.7551, 1563.7314, 1568.7372, 1570.8015, 1572.8151,
  1576.7402, 1577.7395, 1578.7518, 1581.8373, 1591.7852, 1600.8068, 1603.8092, 1604.8136, 1606.8130, 1608.7599, 1613.7793, 1628.7653
  1633.7913, 1634.7969, 1635.7941, 1639.8157, 1643.8085, 1646.8591, 1647.8268, 1651.8206, 1677.8074, 1681.8087, 1690.8313, 1694.7357, 1697.8672, 1703.8214, 1706.8364, 1707.8435, 1708.3533, 1709.3307, 1710.8229, 1715.8053, 1719.8075, 1723.8743, 1724.8828, 1725.8090,
  1730.8199, 1748.7931, 1757.8975, 1763.7841, 1771.9686, 1774.9059, 1777.8727, 1786.8824, 1787.8207, 1790.8423, 1793.9556, 1796.8109, 1797.8339, 1800.8578, 1815.9008, 1819.8838, 1821.8926, 1822.9185, 1826.8450, 1829.8655, 1833.8975, 1836.9054, 1843.8765, 1844.8785,
  1851.9031, 1859.8494, 1862.9265, 1863.9319, 1866.8857, 1868.8972, 1879.9445, 1880.9215, 1887.9023, 1888.8057, 1890.8025, 1896.8954, 1906.8872, 1908.8663, 1913.8895, 1924.9314, 1925.9336, 1928.0060, 1931.9956, 1932.9833, 1968.8563, 1984.9392, 2008.0485, 2008.9869,
  2009.9747, 2012.9506, 2015.9661, 2020.9644, 2030.0151, 2030.4648, 2046.9839, 2047.5186, 2047.9097, 2051.9133, 2059.0122, 2064.9746, 2070.9209, 2077.0454, 2085.9888, 2090.9844, 2097.9778, 2103.1526, 2108.9897, 2118.8926, 2140.0432, 2142.0310, 2142.9895, 2152.0510,
   2155.0667, 2159.0752, 2160.0703, 2161.0813, 2166.0911, 2167.0676, 2174.0425, 2178.0034, 2181.0369, 2189.9133, 2194.9761, 2199.0986,
  2203.0464, 2205.9102, 2211.1077, 2213.1116, 2214.1145, 2218.1018, 2223.2205, 2225.1592, 2229.1064, 2233.1023, 2245.0991, 2269.1128,
  2273.0393, 2277.0576, 2279.1094, 2280.1204, 2283.1279, 2285.1169, 2292.1465, 2296.1479, 2312.0664, 2323.1892, 2326.0947, 2334.1531,
 2335.1282, 2337.1343, 2372.2229, 2383.9978, 2385.2129, 2392.1528, 2400.1094, 2401.1360, 2411.1907, 2414.1833, 2429.1475, 2436.1699, 2437.1758, 2440.2007, 2447.2368, 2495.0542, 2498.0898, 2510.2229, 2522.1980, 2524.1689, 2527.2310, 2535.2598, 2541.2075, 2543.1907,
 2544.1514, 2553.1934, 2557.2300, 2560.1125, 2569.2915, 2572.0935, 2612.1936, 2686.3572, 2788.3362, 2963.6167, 3056.4641, 3058.5842, 3180.5432, 3313.5032, 3330.6311, 3347.6077, 3511.9668, 3761.1558
                                                                               Expect: 61 Matches: 11
 P02687 Mass: 18312 Score: 26
 Myelin basic protein OS=Bos taurus GN=MBP PE=1 SV=1

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss Ions
        Peptide

        811.4178
        810.4105
        810.4236
        -16.11
        97 - 104
        0 ----
        R.TPPPSQGK.G

        1237.6270
        1236.6197
        1236.6364
        -13.45
        42 - 52
        2 ----
        R.FFGSDRGAPKR.G

811.4178 810.4105 810.4236 -16.11 97 - 104 0 --- R.TPPPSQGK.G
1237.6270 1236.6197 1236.6364 -13.45 42 - 52 2 --- R.FFGSDRGAPKR.G
1537.7804 1536.7731 1536.7354 24.5 10 - 23 1 --- R.SKYLASASTMDHAR.H
1553.7277 1552.7204 1552.7304 -6.40 10 - 23 1 --- R.SKYLASASTMDHAR.H + Oxidation (M)
1800.8578 1799.8505 1799.8380 6.97 113 - 129 0 --- R.FSWGAEGQKPGFGYGGR.A
2030.0151 2029.0078 2028.9952 6.23 12 - 29 1 --- K.YLASASTMDHARHGFLPR.H
2245.0991 2244.0918 2244.1222 -13.53 10 - 29 2 --- R.SKYLASASTMDHARHGFLPR.H
2323.1892 2322.1819 2322.1552 11.5 12 - 31 2 --- R.SKYLASASTMDHARHGFLPR.D
2414.1833 2413.1760 2413.1927 -6.92 107 - 129 1 --- R.GLSLSRFSWGAEGQKPGFGYGGR.A
2686.3572 2685.3499 2685.3888 -14.48 74 - 96 1 --- K.AQGHRPQDENPVVHFFKNIVTPR.T
2788.3362 2787.3289 2787.3154 4.87 113 - 138 2 --- R.FSWGAEGQKPGFGYGGRASDYKSAHK.G
  No match to: 724.2539, 725.2472, 728.2482, 730.2519, 732.2390, 733.2623, 739.3115, 742.4642, 743.4729, 745.4483, 747.4419,
  752.3972, 754.3827, 756.3716, 758.3382, 760.3329, 764.3364, 766.3494, 767.4740, 768.3865, 770.3671, 772.41748, 779.4436, 784.3415, 787.2366, 788.4225, 790.4196, 795.4260, 799.2464, 802.4372, 805.4478, 808.4353, 814.4170, 819.4304, 821.4247, 822.4321, 829.4457, 837.4396, 840.4623, 842.5109, 854.4525, 856.5045, 858.5442, 860.4092, 863.4233, 863.9185, 869.4846, 870.5100, 872.4994, 880.4412,
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  1227.6271, 1228.6411, 1229.6412, 1231.6102, 1233.6571, 1238.5917, 1244.6069, 1248.5958, 1250.6042, 1255.5922, 1258.6344, 1268.6414, 1271.6490, 1275.6388, 1276.5977, 1276.6000, 1285.5864, 1294.6315, 1299.6810, 1300.6566, 1309.6340, 1320.6268, 1328.6292, 1333.7025, 1336.6038, 1338.6589, 1341.6488, 1343.6613, 1345.6910, 1349.6838, 1350.6704, 1352.6350, 1355.6870, 1357.7130, 1358.6704, 1369.7067,
  1371.7366, 1374.6705, 1377.6100, 1377.6146, 1384.7109, 1386.7134, 1390.6848, 1393.7169, 1399.6119, 1400.6588, 1406.7207, 1410.6736, 1411.6647, 1416.6047, 1418.6714, 1421.6632, 1425.7395, 1426.6846, 1427.7076, 1430.7102, 1432.6718, 1434.6552, 1438.6991, 1439.7164,
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  1555.7928, 1556.7874, 1560.7551, 1563.7314, 1568.7372, 1570.8015, 1572.8151, 1576.7402, 1577.7395, 1578.7518, 1581.8373, 1591.7852,
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  1697.8672, 1703.8214, 1706.8364, 1707.8435, 1708.3533, 1709.3307, 1710.8229, 1715.8053, 1719.8075, 1721.8296, 1723.8743, 1724.8828, 1725.8090, 1730.8199, 1748.7931, 1757.8975, 1763.7841, 1768.8075, 1771.9686, 1774.9059, 1777.8727, 1779.8081, 1786.8824, 1787.8207,
  1790.8423, 1793.9556, 1796.8109, 1797.8339, 1815.9008, 1819.8838, 1821.8926, 1822.9185, 1826.8450, 1829.8655, 1833.8975, 1836.9054, 1843.8765, 1844.8785, 1851.9031, 1859.8494, 1862.9265, 1863.9319, 1866.8857, 1868.8972, 1879.9445, 1880.9215, 1887.9023, 1888.8057,
  1890.8025, 1896.8954, 1901.0060, 1906.8872, 1908.8663, 1913.8895, 1916.9475, 1924.9314, 1925.9336, 1928.0060, 1931.9956, 1932.9833, 1968.8563, 1984.9392, 2008.0485, 2008.9869, 2009.9747, 2012.9506, 2015.9661, 2020.9644, 2030.4648, 2046.9839, 2047.5186, 2047.9097, 2051.9133, 2059.0122, 2064.9746, 2070.9209, 2077.0454, 2082.9409, 2085.9888, 2090.9844, 2097.9778, 2103.1526, 2108.9897, 2118.8926,
 2140.0432, 2142.0310, 2142.9895, 2152.0510, 2155.0667, 2159.0752, 2160.0703, 2161.0813, 2166.0911, 2167.0676, 2174.0425, 2178.0034, 2181.0369, 2184.0767, 2189.9133, 2194.9761, 2199.0986, 2203.0464, 2205.9102, 2208.9729, 2211.1077, 2213.1116, 2214.1145, 2218.1018,
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  2572.0935, 2612.1936, 2963.6167, 3056.4641, 3058.5842, 3180.5432, 3313.5032, 3330.6311, 3347.6077, 3511.9668, 3761.1558
                 Mass: 36314
                                                  Score: 26
                                                                                 Expect: 62 Matches: 12
  Uncharacterized protein OS=Bos taurus PE=4 SV=1
   Observed Mr(expt) Mr(calc) ppm Start End Miss Ions
   752.3972 751.3899 751.3752 19.5 144 - 149 0 --- K.YDLDVK.S
919.5024 918.4952 918.5175 -24.27 172 - 179 0 --- K.NYPVVSIK.D
919.5024 918.4952 918.5175 -24.27 172 - 179 0 --- K.NYPVVSIK.D

1328.6292 1327.6219 1327.5932 21.6 157 - 167 0 --- K.YPPVSIK.D

1349.6838 1348.6765 1348.7099 -24.74 312 - 322 1 --- K.SFSQRNIQIK.-

1604.8136 1603.8063 1603.7664 24.9 71 - 84 0 --- R.EAMHIGAEVYNNIK.N + Oxidation (M)

1615.8575 1614.8502 1614.8803 -18.64 20 - 33 0 --- R.GVLYLHIADMLNIK.V + Oxidation (M)

1615.8600 1614.8527 1614.8803 -17.09 20 - 33 0 16 R.GVLYLHIADMLNIK.V + Oxidation (M)

1646.8591 1645.8518 1645.8788 -16.37 94 - 109 1 --- K.DATNVGVKGNFLLGNK.E

1771.9686 1770.9613 1770.9814 -11.35 19 - 33 1 --- R.RGVLYLHIADMLNIK.V + Oxidation (M)

1800.8578 1799.8505 1799.8149 19.8 250 - 265 0 --- R.RGVLYLHIADMLNIK.V + Oxidation (M)

2012.9506 2011.9433 2011.9487 -2.66 150 - 167 1 --- K.SPSGLSRYTPEQTSDPYK.S

2181.0369 2180.0296 2180.0075 10.1 180 - 196 1 --- K.DLFNPNDWENNOKFTAR.T

No.match to 27.4 2539 275 2472 278 2482 379 2518 732 2390 733 2623 739 315 742 4642 743 47
  No match to: 724.2539, 725.2472, 728.2482, 730.2519, 732.2390, 733.2623, 739.3115, 742.4642, 743.4729, 745.4483, 747.4419,
  754.3827, 756.3716, 758.3382, 760.3329, 764.3364, 766.3494, 767.4740, 768.3865, 770.3671, 772.4178, 779.4436, 784.3415, 787.2366, 788.4225, 790.4196, 795.4260, 799.2464, 802.4372, 805.4478, 808.4353, 811.4178, 814.4170, 819.4304, 821.4247, 822.4321, 829.4457,
  837.4396, 840.4623, 842.5109, 854.4525, 856.5045, 858.5442, 860.4092, 863.4233, 863.9185, 869.4846, 870.5100, 872.4994, 880.4412,
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 2414.1833, 2429.1475, 2436.1699, 2437.1758, 2440.2007, 2447.2368, 2477.1301, 2495.0542, 2498.0898, 2510.2229, 2522.1980, 2524.1689, 2527.2310, 2535.2598, 2541.2075, 2543.1907, 2544.1514, 2553.1934, 2557.2300, 2560.1125, 2569.2915, 2572.0935, 2612.1936, 2686.3572,
 2788.3362, 2963.6167, 3056.4641, 3058.5842, 3180.5432, 3313.5032, 3330.6311, 3347.6077, 3511.9668, 3761.1558
                  Mass: 18443
                                            Score: 26
                                                                     Expect: 62 Matches: 11
 Myelin basic protein OS=Bos taurus GN=MBP PE=4 SV=1

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss Ions
        Peptide

        811.4178
        810.4105
        810.4236
        -16.11
        98 - 105
        0 ---
        R.TPPPSQGK.G

811.4178 810.4105 810.4236 -16.11 98 - 105 0 --- R.TPPPSQCK.G
1237.6270 1236.6197 1236.6364 -13.45 43 - 53 2 --- R.FSGDRGAPKR.G
1537.7804 1536.7731 1536.7354 24.5 11 - 24 1 --- R.SKYLASASTMDHAR.H
1553.7277 1552.7204 1552.7304 -6.40 11 - 24 1 --- R.SKYLASASTMDHAR.H + Oxidation (M)
1800.8578 1799.8505 1799.8380 6.97 114 - 130 0 --- R.FSWGAEGQKPGFGYGGR.A
2030.0151 2029.0078 2028.9952 6.23 13 - 30 1 --- K.YLASASTMDHARHGFLPR.H
2245.0991 2244.0918 2244.1222 -13.53 11 - 30 2 --- R.SKYLASASTMDHARHGFLPR.H
2323.1892 2322.1819 2322.1552 11.5 13 - 32 2 --- K.YLASASTMDHARHGFLPR.D
2414.1833 2413.1760 2413.1927 -6.92 108 - 130 1 --- R.GLSLSRFSWGAEGQKPGFGYGGR.A
2686.3572 2685.3499 2685.3888 -14.48 75 - 97 1 --- K.AQHGRPQDENPVHFFKNIVTPR.T
2788.3362 2787.3289 2787.3154 4.87 114 - 139 2 --- R.FSWGAEGQKPGFGYGGRASDYKSAHK.G
 966.4929, 969.4786, 972.5046, 974.5551, 977.5352, 978.5240, 981.4474, 989.2700, 991.5198, 993.5112, 1001.5782, 1007.5089, 1009.5097, 1013.4454, 1015.5150, 1016.5522, 1018.5189, 1021.5313, 1024.5028, 1025.5192, 1029.5330, 1032.5870, 1033.5739, 1035.5203, 1045.5564, 1046.5759, 1051.5074, 1056.5415, 1057.6005, 1064.5358, 1071.5361, 1073.5377, 1079.5398, 1083.4637, 1086.4774, 1092.6000,
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                                                                                                                                                                                                                     1634.7969
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 1968.8563, 1984.9392, 2008.0485, 2008.9869, 2009.9747, 2012.9506, 2015.9661, 2020.9644, 2030.4648, 2046.9839, 2047.5186, 2047.9097, 2051.9133, 2059.0122, 2064.9746, 2070.9209, 2077.0454, 2082.9409, 2085.9888, 2090.9844, 2097.9778, 2103.1526, 2108.9897, 2118.8926,
 2140.0432, 2142.0310, 2142.9895, 2152.0510, 2155.0667, 2159.0752, 2160.0703, 2161.0813, 2166.0911, 2167.0676, 2174.0425,
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 2572.0935, 2612.1936, 2963.6167, 3056.4641, 3058.5842, 3180.5432, 3313.5032, 3330.6311, 3347.6077, 3511.9668, 3761.1558
                 Mass: 83962
                                          Score: 25
                                                                    Expect: 75 Matches: 34
 G3MZA4
 Uncharacterized protein OS=Bos taurus GN=CXorf23 PE=4 SV=1

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss Ions
        Peptide

        766.3494
        765.3422
        765.3439
        -2.32
        364
        - 369
        1
        ---
        R.SCKDT

                                                                                                              R.SCKDTR.K
                     907.4504
                                         907.4624 -13.20
                     927.4958
                                         927.5025 -7.29 546 - 553 0 --- K.IIDPSDLR.H
927.4936 927.5025 -7.29 546 - 533 0 --- K.IIDESDEK.H
1015.5150 1014.5077 1014.5094 -1.68 413 - 421 0 --- K.VDVQQGQNK.S
1024.5028 1023.4955 1023.4985 -2.91 255 - 262 0 --- R.NLETQTYR.Y
1064.5358 1063.5285 1063.5298 -1.19 303 - 310 2 --- K.YPKEEDRK.L
1079.5398 1078.5325 1078.5407 -7.58 176 - 183 1 --- R.YQRIQDEK.Y
1106.5431 1105.5358 1105.5192 15.0 242 - 250 0 --- R.HFSAPYQEK.K
 1250.6042 1249.5969 1249.6224 -20.37 522 -532 0 --- R.IDMSLAELQSK.Q + Oxidation (M) 1258.6344 1257.6271 1257.6426 -12.28 413 - 423 1 --- K.VDVQQGQNKSR.V
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1349.6838 1348.6765 1348.6524 17.9 240 - 250 1 --- K.SRHFSAPYQEK.K
1377.6100 1376.6027 1376.6149 -8.87 30 - 39 1 --- R.FEHYGYDYRK.D
1377.6146 1376.6073 1376.6149 -5.52 30 - 39 1 --- R.FEHYGYDYRK.D
1406.7207 1405.7134 1405.7235 -7.15 521 - 532 1 --- R.FIDMSLAELQSK.Q + Oxidation (M)
1553.7277 1552.7204 1552.7521 -20.42 263 - 276 1 --- R.YAPREFPETSSARK.V
1556.7874 1555.7801 1555.7916 -7.37 533 - 545 1 --- R.YAPREFPETSSARK.V
1570.8015 1569.7942 1569.7787 9.89 191 - 203 2 --- R.GSEDFEKRISFQK.R
1576.7402 1575.7329 1575.7001 20.8 116 - 127 1 --- R.HSEGMFYREHQR.S
1613.7793 1612.7720 1612.7338 23.7 612 - 624 0 --- K.FIQKPCSSDTMQR.K + Oxidation (M)
2440.2007 2439.1934 2439.1819 4.73 592 - 611 2 --- K.DTHVDEFQKPTSFEKSNFRK.F
2527.2310 2526.2237 2526.2139 3.88 590 - 610 2 --- R.SKDTHVDEFQKPTSFEKSNFR.I
                                                                                                 R.SKDTHVDEFOKPTSFEKSNFR.K
 No match to: 724.2539, 725.2472, 728.2482, 730.2519, 732.2390, 733.2623, 739.3115, 742.4642, 743.4729, 745.4483, 747.4419,
 752.3972, 754.3827, 756.3716, 758.3382, 760.3329, 764.3364, 767.4740, 768.3865, 770.3671, 772.4178, 779.4436, 784.3415, 787.2366, 788.4225, 790.4196, 795.4260, 799.2464, 802.4372, 805.4478, 808.4353, 811.4178, 814.4170, 819.4304, 821.4247, 822.4321, 829.4457,
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                                                                                                                                                           1703.8214, 1706.8364, 1707.8435,
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 2385.2129, 2392.1528, 2400.1094, 2401.1360, 2409.1914, 2411.1907, 2414.1833, 2437.1758, 2447.2368, 2477.1301, 2495.0542, 2498.0898, 2510.2229, 2522.1980, 2524.1689, 2535.2598, 2541.2075, 2543.1907, 2544.1514, 2553.1934, 2557.2300, 2560.1125, 2569.2915, 2572.0935,
 2612.1936, 2686.3572, 2788.3362, 2963.6167, 3056.4641, 3058.5842, 3180.5432, 3313.5032, 3330.6311, 3347.6077, 3511.9668, 3761.1558
 O3T087 Mass: 20468
                                        Score: 24
                                                           Expect: 99 Matches: 7
 60S ribosomal protein L11 OS=Bos taurus GN=RPL11 PE=2 SV=3 \,
787.2366, 788.4225, 790.4196, 795.4260, 799.2464, 802.4372, 805.4478, 808.4353, 811.4178, 814.4170, 819.4304, 821.4247, 822.4321, 829.4457, 840.4623, 842.5109, 854.4525, 856.5045, 858.5442, 860.4092, 863.4233, 863.9185, 869.4846, 870.5100, 872.4994, 880.4412,
 904.4613, 906.4929, 908.4577, 913.5685, 919.5024, 925.5089, 927.4999, 928.5031, 940.4773, 942.4820, 950.4946, 957.5654, 960.4840, 966.4929, 969.4786, 972.5046, 974.5551, 977.5352, 978.5240, 981.4474, 989.2700, 991.5198, 993.5112, 1001.5782, 1007.5089, 1009.5097, 1013.4454, 1015.5150, 1016.5522, 1018.5189, 1021.5313, 1024.5028, 1025.5192, 1029.5330, 1032.5870, 1033.5739, 1035.5203,
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  1229.6412, 1231.6102, 1233.6571, 1237.6270, 1238.5917, 1244.6069, 1248.5958, 1250.6042, 1255.5922, 1258.6344, 1268.6414, 1271.6490,
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 1377.6100, 1377.6146, 1384.7109, 1386.7134, 1390.6848, 1393.7169, 1399.6119, 1400.6588, 1406.7207, 1410.6736, 1411.6647, 1418.6714, 1421.6632, 1425.7395, 1426.6846, 1427.7076, 1430.7102, 1432.6718, 1434.6552, 1438.6991, 1439.7164, 1443.7589, 1444.7375,
  1445.7306, 1454.6836, 1461.7990, 1472.7026, 1475.7224, 1485.6906, 1489.7172, 1490.7058, 1493.7157,
                                                                                                                                                           1510.7383, 1515.7393, 1523.6987
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 1793.9556, 1796.8109, 1797.8339, 1815.9008, 1819.8838, 1821.8926, 1822.9185, 1826.8450, 1829.8655, 1833.8975, 1836.9054, 1843.8765, 1844.8785, 1851.9031, 1859.8494, 1863.9319, 1866.8857, 1868.8972, 1879.9445, 1880.9215, 1887.9023, 1888.8057, 1890.8025, 1896.8954,
 1901.0060, 1906.8872, 1908.8663, 1913.8895, 1916.9475, 1924.9314, 1925.9336, 1928.0060, 1931.9956, 1932.9833, 1968.8563, 1984.9392,
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             2495.0542, 2498.0898, 2510.2229, 2522.1980, 2524.1689, 2527.2310, 2535.2598, 2541.2075, 2543.1907, 2544.1514, 2553.1934, 2557.2300, 2560.1125, 2569.2915, 2572.0935, 2612.1936, 2686.3572, 2788.3362, 2963.6167, 3056.4641, 3058.5842, 3180.5432, 3313.5032, 3330.6311,
             3347.6077, 3511.9668, 3761.1558
            F1MI98 Mass: 52161 Score: 23
                                                                                         Expect: 1.2e+002 Matches: 20
             Uncharacterized protein OS=Bos taurus GN=KRT36 PE=3 SV=2
              Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide
          904.4613
                                    903.4540
                                                           903.4735 -21.59 219 - 225 0 --- K.EELICLK.K
             No match to: 724.2539, 725.2472, 728.2482, 730.2519, 732.2390, 733.2623, 739.3115, 742.4642, 743.4729, 745.4483, 747.4419, 752.3972, 754.3827, 756.3716, 758.3382, 760.3329, 764.3364, 766.3494, 767.4740, 768.3865, 770.3671, 772.4178, 779.4436, 784.3415, 787.2366, 788.4225, 790.4196, 795.4260, 799.2464, 802.4372, 805.4478, 808.4353, 811.4178, 814.4170, 819.4304, 821.4247, 822.4321,
             829.4457, 837.4396, 840.4623, 842.5109, 854.4525, 856.5045, 858.5442, 860.4092, 863.4233, 863.9185, 869.4846, 870.5100, 872.4994, 880.4412, 906.4929, 908.4577, 913.5685, 919.5024, 925.5089, 927.4999, 928.5031, 940.4773, 942.4820, 950.4946, 957.5654, 960.4840, 966.4929, 969.4786, 972.5046, 974.5551, 977.5352, 978.5240, 981.4474, 989.2700, 991.5198, 993.5112, 1001.5782, 1007.5089, 1009.5097, 1013.4454, 1015.5150, 1016.5522, 1018.5189, 1021.5313, 1024.5028, 1025.5192, 1029.5330, 1033.5739, 1035.5203, 1045.5564, 1046.5759, 1051.5074, 1056.5415, 1057.6005, 1064.5358, 1071.5361, 1073.5377, 1079.5398, 1083.4637, 1086.4774, 1092.6000, 1092.6002,
             1094.5596, 1096.5302, 1106.5431, 1110.5461, 1111.5398, 1111.5400, 1115.5790, 1118.5620, 1120.5724, 1123.5819, 1128.5537, 1132.5682, 1134.5841, 1135.5942, 1137.5565, 1143.5844, 1145.6155, 1149.5597, 1153.5929, 1158.6288, 1163.5771, 1173.6008, 1175.5867, 1177.6178,
             1178.6053, 1179.5962, 1181.6432, 1192.5721, 1199.6315, 1203.5826, 1211.5984, 1216.6786, 1221.5699, 1222.5789, 1228.6411, 1229.6412, 1231.6102, 1233.6571, 1238.5917, 1244.6069, 1248.5958, 1250.6042, 1255.5922, 1258.6344, 1268.6414, 1271.6490, 1275.6388, 1276.5977,
              1276.6000, 1285.5864, 1294.6315, 1299.6810, 1300.6566, 1309.6340, 1320.6268, 1328.6292, 1333.7025, 1336.6038, 1338.6589, 1341.6488,
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             1421.6632, 1425.7395, 1426.6846, 1427.7076, 1430.7102, 1432.6718, 1434.6552, 1438.6991, 1439.7164, 1443.7589, 1444.7375, 1445.7306, 1454.6836, 1461.7990, 1472.7026, 1475.7224, 1485.6906, 1489.7172, 1490.7058, 1493.7157, 1510.7383, 1515.7393, 1523.6987, 1524.7383,
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             1603.8092, 1604.8136, 1606.8130, 1608.7599, 1613.7793, 1615.8575, 1615.8600, 1624.7632, 1628.7653, 1633.7913, 1634.7969, 1635.7941
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             1763.7841, 1768.8075, 1771.9686, 1774.9059, 1777.8727, 1779.8081, 1786.8824, 1787.8207, 1793.9556, 1796.8109, 1797.8339, 1800.8578,
             1815.9008, 1819.8838, 1821.8926, 1822.9185, 1826.8450, 1829.8655, 1833.8975, 1836.9054, 1843.8765, 1844.8785, 1851.9031, 1859.8494, 1862.9265, 1863.9319, 1866.8857, 1879.9445, 1880.9215, 1887.9023, 1888.8057, 1890.8025, 1896.8954, 1901.0060, 1906.8872, 1908.8663,
             1913.8895, 1916.9475, 1924.9314, 1925.9336, 1928.0060, 1931.9956, 1932.9833, 1968.8563, 1984.9392, 2008.0485, 2009.9474, 2012.9506, 2020.9644, 2030.0151, 2030.4648, 2046.9839, 2047.5186, 2047.9097, 2051.9133, 2059.0122, 2064.9746, 2070.9209, 2077.0454, 2082.9409,
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             2569.2915, 2572.0935, 2612.1936, 2686.3572, 2788.3362, 2963.6167, 3056.4641, 3058.5842, 3180.5432, 3313.5032, 3330.6311, 3347.6077,
             3511.9668, 3761.1558
                                                                                         Expect: 1.6e+002 Matches: 15
13. Q58DL0 Mass: 26401 Score: 22

        Chromosome
        X open residing
        frame
        23 OS=Bos
        taurus
        GN=CXorf23
        PE=2 SV=1

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss
        Ions
        Peptide

        928.5031
        927.4958
        927.5025
        -7.29
        113 - 120
        0 ---
        K.IIDPSDLR.H

        1035.5203
        1034.5130
        1034.4920
        20.3
        217 - 225
        0 ---
        K.EYTNIDPAI.-

        1228.6411
        1227.6338
        1227.6394
        -4.53
        1 - 11
        1 ---
        -MSHDLVAVGRK.S + Oxidation (M)

        1406.7207
        1405.7134
        1405.7235
        -7.15
        88 - 99
        1 ---
        R.RIDMSLAELQSK.Q + Oxidation (M)

        1556.7874
        1555.7801
        1555.7916
        -7.37
        100 - 112
        1 ---
        R.RIDMSLAELQSK.Q + Oxidation (M)

        1572.8151
        1571.8078
        1571.8090
        -0.72
        1 - 14
        2 ---
        MSHDLVAVGRKSEK.F + Oxidation (M)

        1613.7793
        1612.7738
        23.7
        179 - 191
        0 ---
        K.FIQKPCSSDTMQR.K + Oxidation (M)

        1725.8090
        1724.8017
        1724.8338
        -18.60
        179 - 192</t
             Chromosome X open reading frame 23 OS=Bos taurus GN=CXorf23 PE=2 SV=1
            2429.1475 2428.1402 2428.1996 -24.45 193 - 212 1 --- K.DVITHRPFVEENNQNTRGFR.R 2440.2007 2439.1934 2439.1819 4.73 159 - 178 2 --- K.DTHVDEFQKPTSFEKSNFRK.F
                                                                                   3 88 157 - 177
            2527 2310 2526 2237 2526 2139
                                                                                                                          2 --- R SKDTHVDEFOKPTSFEKSNER K
            No match to: 724,2539, 725,2472, 728,2482, 730.2519, 732.2390, 733.2623, 739.3115, 742.4642, 743.4729, 745.4483, 747.4419, 752.3972, 754.3827, 756.3716, 758.3382, 760.3329, 764.3364, 766.3494, 767.4740, 768.3865, 770.3671, 772.4178, 779.4436, 784.3415, 787.2366, 788.4225, 790.4196, 795.4260, 799.2464, 802.4372, 805.4478, 808.4353, 811.4178, 814.4170, 819.4304, 821.4247, 822.4321, 829.4457, 837.4396, 840.4623, 842.5109, 854.4525, 856.5045, 858.5442, 860.4092, 863.4233, 863.9185, 869.4846, 870.5100, 872.4994, 880.4412, 904.4613, 906.4929, 908.4577, 913.5685, 919.5024, 925.5089, 927.4999, 940.4773, 942.4820, 950.4946, 957.5654, 960.4840,
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  1377.6100, 1377.6146, 1384.7109, 1386.7134, 1390.6848, 1393.7169, 1399.6119, 1400.6588, 1410.6736, 1411.6647, 1416.6047, 1418.6714,
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  1527.7585, 1529.7466, 1530.6902, 1531.6953, 1537.7804, 1538.7736, 1539.7621, 1541.7805, 1542.8290, 1549.6758, 1553.7277, 1555.7928, 1560.7551, 1563.7314, 1568.7372, 1570.8015, 1576.7402, 1577.7395, 1578.7518, 1581.8373, 1591.7852, 1600.8068, 1603.8092, 1604.8136,
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  1708.3533, 1709.3307, 1710.8229, 1715.8053, 1719.8075, 1721.8296, 1723.8743, 1724.8828, 1730.8199, 1748.7931, 1757.8975, 1763.7841, 1768.8075, 1771.9686, 1774.9059, 1777.8727, 1779.8081, 1786.8824, 1787.8207, 1790.8423, 1793.9556, 1796.8109, 1797.8339, 1800.8578,
   1815.9008, 1819.8838, 1821.8926, 1822.9185, 1826.8450, 1829.8655, 1833.8975, 1836.9054, 1843.8765, 1844.8785, 1851.9031, 1859.8494,
  1862.9265, 1863.9319, 1866.8857, 1868.8972, 1879.9445, 1880.9215, 1887.9023, 1888.8057, 1890.8025, 1896.8954, 1901.0060, 1906.8872, 1908.8663, 1913.8895, 1916.9475, 1924.9314, 1925.9336, 1928.0060, 1931.9956, 1932.9833, 1968.8563, 1984.9392, 2008.0485, 2008.9869,
  2012.9506, 2015.9661, 2020.9644, 2030.0151, 2030.4648, 2046.9839, 2047.5186, 2047.9097, 2051.9133, 2059.0122, 2064.9746, 2070.9209, 2077.0454, 2082.9409, 2085.9888, 2090.9844, 2097.9778, 2103.1526, 2108.9897, 2118.8926, 2140.0432, 2142.0310, 2142.9895, 2152.0510,
  2155.0667, 2159.0752, 2160.0703, 2161.0813, 2166.0911, 2167.0676, 2174.0425, 2178.0034, 2181.0369, 2184.0767, 2189.9133, 2194.9761, 2199.0986, 2205.9102, 2208.9729, 2211.1077, 2213.1116, 2214.1145, 2218.1018, 2221.1035, 2223.2205, 2225.1592, 2229.1064, 2233.1023,
  2245.0991, 2269.1128, 2273.0393, 2277.0576, 2279.1094, 2280.1204, 2283.1279, 2285.1169, 2292.1465, 2296.1479, 2323.1892, 2326.0947,
  2334.1531, 2335.1282, 2337.1343, 2369.2256, 2372.2229, 2383.9978, 2385.2129, 2392.1528, 2400.1094, 2401.1360, 2409.1914, 2411.1907, 2414.1833, 2436.1699, 2437.1758, 2447.2368, 2477.1301, 2495.0542, 2498.0898, 2510.2229, 2522.1980, 2524.1689, 2535.2598, 2541.2075,
  2543.1907, 2544.1514, 2553.1934, 2557.2300, 2560.1125, 2569.2915, 2572.0935, 2612.1936, 2686.3572, 2788.3362, 2963.6167, 3056.4641, 3058.5842, 3180.5432, 3313.5032, 3330.6311, 3347.6077, 3511.9668, 3761.1558
 Q3SZ43 Mass: 16409
                                                           Score: 22
                                                                                               Expect: 1.7e+002 Matches: 13
  Ubiquitin-conjugating enzyme E2 variant 2 OS=Bos taurus GN=UBE2V2 PE=2 SV=3

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss
        Ions
        Peptide

        808.4353
        807.4280
        807.4160
        14.8
        1
        -
        8
        0
        ---
        -.MAVSTG

                                                                                                     1 - 8 0 --- -.MAVSTGVK.V + Oxidation (M)
117 - 123 0 --- K.VVLQELR.R
                             855.4972
                                                         855.5178 -24.02
856.5045 855.4972 855.5178 -24.02 117 - 123 0 --- K.VVLQELR.R

1015.5150 1014.5077 1014.5134 -5.62 73 - 81 0 --- K.YPEAPPSVR.F

1025.5192 1024.5119 1024.4978 13.8 109 - 116 0 --- K.YPEAPPSVR.F

1111.5398 1110.5325 1110.5235 8.11 125 - 133 1 --- R.LMMSKENMK.L

1111.5400 1110.5327 1110.5235 8.29 125 - 133 1 --- R.LMMSKENMK.L

1143.5844 142.5771 1142.5907 -11.84 46 - 55 0 --- R.WTCMIGPPR.T + Oxidation (M)

1604.8136 1603.8063 1603.8205 -8.86 12 - 24 1 --- R.NFRLLEELEEGGK.G

1859.8494 1858.8421 1858.8519 -5.27 130 - 145 1 --- K.VECGPRYPEAPPSVRFVTK.I

2161.0813 2160.0740 2160.1038 -13.77 67 - 85 2 --- K.VECGPRYPEAPPSVRFVTK.I

2184.0767 2183.0694 2183.0463 10.6 82 - 101 1 --- R.FVTKINMNGINNSSGMVDAR.S + Oxidation (M)

2498.0898 2497.0825 2497.1827 -18.49 125 - 145 2 --- R.LMMSKENMKLPQPPEGQTYNN.- + 3 Oxidation (M)

3180.5432 3179.5359 3179.5492 -4.17 73 - 101 2 --- K.YPEAPPSVRFVTKINNMGINNSSGMVDAR.S + Oxidation (M)

No match to: 724.2539, 725.2472, 728.2482, 730.2519, 732.2390, 733.2623, 739.3115, 742.4642, 743.4729, 745.4483,
 3180.5432 3179.5359 3179.5492 -4.1/ 73 - 101 2 --- K.YPEAPPSVRFVKINNNGINNSSGMVDAR.S + Oxidation (M)

No match to: 724.2539, 725.2472, 728.2482, 730.2519, 732.2390, 733.2623, 739.3115, 742.4642, 743.4729, 745.4483, 747.4419,
752.3972, 754.3827, 756.3716, 758.3382, 760.3329, 764.3364, 766.3494, 767.4740, 768.3865, 770.3671, 772.4178, 779.4436, 784.3415,
787.2366, 788.4225, 790.4196, 795.4260, 799.2464, 802.4372, 805.4478, 811.4178, 814.4170, 819.4304, 821.4247, 822.4321, 829.4457,
837.4396, 840.4623, 842.5109, 854.4525, 858.5442, 860.4092, 863.4233, 863.9185, 869.4846, 870.5100, 872.4994, 880.4412, 904.4613,
906.4929, 908.4577, 913.5685, 919.5024, 925.5089, 927.4999, 928.5031, 940.4773, 942.4820, 950.4946, 957.5654, 960.4840, 966.4929,
969.4786, 972.5046, 974.5551, 977.5352, 978.5240, 981.4474, 988.2700, 991.5198, 993.5112, 1001.5782, 1007.5089, 1009.5097,
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  1149.5597, 1153.5929, 1158.6288, 1163.5771, 1173.6008, 1175.5867, 1177.6178, 1178.6053, 1179.5962, 1181.6432, 1192.5721, 1199.6315, 1203.5826, 1211.5984, 1215.6246, 1216.6786, 1221.5699, 1222.5789, 1227.6271, 1228.6411, 1229.6412, 1231.6102, 1233.6571, 1237.6270,
  1238.5917, 1244.6069, 1248.5958, 1250.6042, 1255.5922, 1258.6344, 1268.6414, 1271.6490, 1275.6388, 1276.5977, 1276.6000, 1285.5864, 1294.6315, 1299.6810, 1300.6566, 1309.6340, 1320.6268, 1328.6292, 1333.7025, 1336.6038, 1338.6589, 1341.6488, 1343.6613, 1345.6910,
  1349.6838, 1350.6704, 1352.6350, 1355.6870, 1357.7130, 1358.6704, 1369.7067, 1371.7366, 1374.6705, 1377.6100, 1377.6146, 1384.7109, 1386.7134, 1390.6848, 1393.7169, 1399.6119, 1400.6588, 1406.7207, 1410.6736, 1411.6647, 1416.6047, 1418.6714, 1421.6632, 1425.7395,
   1426.6846, 1427.7076, 1430.7102, 1432.6718, 1434.6552, 1438.6991, 1439.7164, 1443.7589, 1444.7375, 1445.7306, 1454.6836, 1461.7990,
  1472.7026, 1475.7224, 1485.6906, 1489.7172, 1490.7058, 1493.7157, 1510.7383, 1515.7393, 1523.6987, 1524.7383, 1527.7585, 1529.7466, 1530.6902, 1531.6953, 1537.7804, 1538.7736, 1539.7621, 1541.7805, 1542.8290, 1549.6758, 1553.7277, 1555.7928, 1556.7874, 1560.7551,
  1563.7314, 1568.7372, 1570.8015, 1572.8151, 1576.7402, 1577.7395, 1578.7518, 1581.8373, 1591.7852, 1600.8068, 1603.8092, 1606.8130, 1608.7599, 1613.7793, 1615.8575, 1615.8600, 1624.7632, 1628.7653, 1633.7913, 1634.7969, 1635.7941, 1639.8157, 1643.8085, 1646.8591,
  1647.8268, 1651.8206, 1653.8284, 1677.8074, 1681.8087, 1682.827, 1690.8313, 1694.7357, 1697.8672, 1703.8214, 1706.8364, 1707.8435, 1708.3533, 1709.3307, 1710.8229, 1715.8053, 1719.8075, 1721.8296, 1723.8743, 1724.8828, 1725.8090, 1730.8199, 1748.7931, 1757.8975, 1763.7841, 1768.8075, 1771.9686, 1774.9059, 1777.8727, 1779.8081, 1786.8824, 1787.8207, 1790.8423, 1793.9556, 1796.8109, 1797.8339,
  1800.8578, 1815.9008, 1819.8838, 1821.8926, 1822.9185, 1826.8450, 1829.8655, 1833.8975, 1836.9054, 1843.8765, 1844.8785, 1851.9031, 1862.9265, 1863.9319, 1866.8857, 1868.8972, 1879.9445, 1880.9215, 1887.9023, 1888.8057, 1890.8025, 1896.8954, 1901.0060, 1906.8872,
  1908.8663, 1913.8895, 1916.9475, 1924.9314, 1925.9336, 1928.0060, 1931.9956, 1932.9833, 1968.8563, 1984.9392, 2008.0485, 2008.9869, 2009.9747, 2012.9506, 2015.9661, 2020.9644, 2030.0151, 2030.4648, 2046.9839, 2047.5186, 2047.9097, 2051.9133, 2059.0122, 2064.9746,
  2070.9209, 2077.0454, 2082.9409, 2085.9888, 2090.9844, 2097.9778, 2103.1526, 2108.9897, 2118.8926, 2140.0432, 2142.0310, 2142.9895,
  2152.0510, 2155.0667, 2159.0752, 2160.0703, 2166.0911, 2167.0676, 2174.0425, 2178.0034, 2181.0369, 2189.9133, 2194.9761, 2199.0986, 2203.0464, 2205.9102, 2208.9729, 2211.1077, 2213.1116, 2214.1145, 2218.1018, 2221.1035, 2223.2205, 2225.1592, 2229.1064, 2233.1023,
  2245.0991, 2269.1128, 2273.0393, 2277.0576, 2279.1094, 2280.1204, 2283.1279, 2285.1169, 2292.1465, 2296.1479, 2312.0664, 2323.1892, 2326.0947, 2334.1531, 2335.1282, 2337.1343, 2369.2256, 2372.2229, 2383.9978, 2385.2129, 2392.1528, 2400.1094, 2401.1360, 2409.1914,
  2411.1907, 2414.1833, 2429.1475, 2436.1699, 2437.1758, 2440.2007, 2447.2368, 2477.1301, 2495.0542, 2510.2229, 2522.1980, 2524.1689, 2527.2310, 2535.2598, 2541.2075, 2543.1907, 2544.1514, 2553.1934, 2557.2300, 2560.1125, 2569.2915, 2572.0935, 2612.1936, 2686.3572, 2788.3362, 2963.6167, 3056.4641, 3058.5842, 3313.5032, 3330.6311, 3347.6077, 3511.9668, 3761.1558
                                                                                                  Expect: 1.7e+002 Matches: 32
  Uncharacterized protein OS=Bos taurus GN=TSGA10 PE=4 SV=2

        Uncharacterized protein OS=Bos taurus GN=TSGA10 PE=4 SV=2

        Observed Protein OS=Bos taurus GN=TSGA10 PE=4 SV=2
        Wr (expt)
        Mr (calc) ppm Start End Miss Ions
        Peptide

        978.5240 977.5168 977.5328 -16.35 371 - 378 2 --- K.EMKSLARK.A + OX 1009.5097 1008.5024 1008.5127 -10.23 398 - 405 0 --- R.LLYENTEK.D
        R.LLYENTEK.D

        1045.5564 1044.5491 1044.5563 -66.90 559 - 567 1 --- K.QENQALSKK.L 1092.6000 1091.5927 1091.5724 18.7 299 - 307 1 6 R.DVAFTDLRR.M 1092.6002 1091.5929 1091.5724 18.8 299 - 307 1 --- R.DVAFTDLRR.M 135.5942 1134.5869 1134.5782 7.73 826 - 834 1 --- R.QLGTERFER.E 1179.5962 1178.5889 1178.5675 18.2 227 - 235 1 --- R.EELKCMLEK.Y 1393.7169 1392.7096 1392.7249 -10.96 171 - 182 1 --- R.LDSFVKTLEADR.D 1443.7589 1442.7516 1442.7616 -6.93 47 - 58 1 --- K.LDSFVKTLEADR.D 1443.7589 1442.7516 1442.7616 -6.93 47 - 58 1 --- K.LDQLAEQLEKEK.N 1009.00 1 --- R.LDSFVKTLEADR.D 1443.7589 1442.7516 1442.7616 -6.93 47 - 58 1 --- K.LDQLAEQLEKEK.N 1009.00 1 --- R.LDSFVKTLEADR.D 1443.7589 1442.7516 1442.7616 -6.93 47 - 58 1 --- K.LDQLAEQLEKEK.N 1009.00 1 --- R.LDSFVKTLEADR.D 1443.7589 1442.7516 1442.7616 -6.93 47 - 58 1 --- K.LDQLAEQLEKEK.N 1009.00 1 --- R.LDSFVKTLEADR.D 1443.7589 1442.7516 1442.7616 -6.93 47 - 58 1 --- K.LDQLAEQLEKEK.N 1009.00 1 --- R.LDSFVKTLEADR.D 1443.7589 1442.7516 1442.7616 -6.93 47 - 58 1 --- K.LDQLAEQLEKEK.N 1009.00 1 --- R.LDSFVKTLEADR.D 1443.7589 1442.7516 1442.7616 -6.93 47 - 58 1 --- K.LDQLAEQLEKEK.N 1009.00 1 --- R.LDSFVKTLEADR.D 1443.7589 1442.7516 1442.7616 -6.93 47 - 58 1 --- K.LDQLAEQLEKEK.N 1009.00 1 --- R.LDSFVKTLEADR.D 1443.7589 1442.7516 1442.7616 -6.93 47 - 58 1 --- K.LDSFVKTLEADR.D 1443.7589 1442.7516 1442.7616 -6.93 47 - 58 1 --- R.LDSFVKTLEADR.D 1443.7589 1442.7516 1442.7616 1442.7616 1442.7616 1442.7616 1442.7616 1442.7616 1442.7616 1442.7616 1442.7616 1442.7616 1442.7616 1442.7616 1442.761
                                                                                                                                                          K.EMKSLARK.A + Oxidation (M)
```

```
1445.7306 1444.7233 1444.7310 -5.33 7 - 18 1 --- K.QTNHGLEEYVKK.L
1537.7804 1536.7731 1536.7494 15.5 683 - 694 1 --- K.MEEELQKVQFEK.V
1553.7277 1552.7204 1552.7443 -15.36 683 - 694 1 --- K.MEEELQKVQFEK.V
1553.7277 1555.7801 1555.8107 -19.62 236 - 248 1 --- K.MEEELQKVQFEK.V
1553.7874 1555.7801 1555.8107 -19.62 236 - 248 1 --- K.MEEELQKVQFEK.V
1624.7632 1623.7559 1623.7675 -7.11 877 - 889 1 --- R.GLDRSLEENLCYR.D
1643.8085 1642.8012 1642.7694 19.4 227 - 238 2 --- R.GLDRSLEENLCYR.D
1706.8364 1705.8291 1705.8556 -15.52 474 - 489 1 --- K.SENIASLGESLAMKEK.T
1707.8435 1706.8362 1706.8363 -0.03 59 - 73 1 --- K.NFVVDTADKELEEAK.K
1710.8229 1709.8156 1709.8519 -21.21 299 - 312 2 --- R.DVAFTDLERMTTER.D
1721.8296 1720.8223 1720.8414 -11.06 741 - 754 1 --- R.SEIELLRSQMTNER.I + Oxidation (M)
1777.8727 1776.8654 1776.8788 -7.55 212 - 226 2 --- R.GTNCOVELLKTTROR.E
1793.9556 1792.9483 1792.9795 -17.40 239 - 254 1 --- R.QSTEALINCEQDISR.M + Oxidation (M)
1815.9008 1814.8935 1814.8767 9.27 790 - 804 1 --- K.SELCAMKMAIQSR.D + Oxidation (M)
1896.8954 1895.8881 1895.8465 21.9 598 - 612 2 --- R.MRRQLDETNDELAQTAR.E
2152.0510 2151.0437 2151.0663 -10.51 488 - 506 2 --- K.SELCAMKMAIQSR.D + Oxidation (M)
2218.1018 2217.0945 2217.1034 -4.00 231 - 248 2 --- K.CMLEKYERHLAEIQGNVK.V
2221.1035 2220.0962 2220.0626 15.1 594 - 611 2 --- K.MRRQLDETNDELAQTAR.E
2245.0991 2244.0918 2244.0510 18.2 352 - 370 1 --- R.MERQMSNMTLMKETITTVEK.E
2277.0576 2276.0503 2276.0408 4.18 352 - 370 1 --- R.MEQMSNMTLMKETITTVEK.E + 2 Oxidation (M)
2369.2256 2368.2183 2368.1771 17.4 539 - 558 2 --- R.ERDILAHENDNLQEGFAKK.Q

No match to: 724.2539, 725.2472, 728.2482, 730.2519, 732.2390, 733.2623, 739.3115, 742.4642, 743.4729, 775.777, 775.777, 775.777, 775.777, 775.777, 775.777, 775.777, 775.777, 775.777, 775.777, 775.777, 775.777, 775.777, 775.777, 775.777, 775.777, 775.777, 775.777, 775.777, 775.777, 775.777, 775.777, 775.777, 775.777, 775.777, 775.777, 775.777, 775.777, 775.777, 775.777, 775.777, 775.777, 775.777, 775.777, 775.777, 775.777, 775.777, 775.777, 775.777, 775.77
  No match to: 724.2539, 725.2472, 728.2482, 730.2519, 732.2390, 733.2623, 739.3115, 742.4642, 743.4729, 745.4483, 747.4419,
  752.3972, 754.3827, 756.3716, 758.3382, 760.3329, 764.3364, 766.3494, 767.4740, 768.3865, 770.3671, 772.4178, 779.4436, 784.3415, 787.2366, 788.4225, 790.4196, 795.4260, 799.2464, 802.4372, 805.4478, 808.4353, 811.4178, 814.4170, 819.4304, 821.4247, 822.4321, 829.4457, 837.4396, 840.4623, 842.5109, 854.4525, 856.5045, 858.5442, 860.4092, 863.4233, 863.9185, 869.4846, 870.5100, 872.4994,
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  1013.4454, 1015.5150, 1016.5522, 1018.5189, 1021.5313, 1024.5028, 1025.5192, 1029.5330, 1032.5870, 1033.5739, 1035.5203, 1046.5759, 1051.5074, 1056.5415, 1057.6005, 1064.5358, 1071.5361, 1073.5377, 1079.5398, 1083.4637, 1086.4774, 1094.5596, 1096.5302, 1106.5431,
   1110.5461, 1111.5398, 1111.5400, 1115.5790, 1118.5620, 1120.5724, 1123.5819, 1128.5537, 1132.5682, 1134.5841, 1137.5565,
  1145.6155, 1149.5597, 1153.5929, 1158.6288, 1163.5771, 1173.6008, 1175.5867, 1177.6178, 1178.6053, 1181.6432, 1192.5721, 1199.6315, 1203.5826, 1211.5984, 1215.6246, 1216.6786, 1221.5699, 1222.5789, 1227.6271, 1228.6411, 1229.6412, 1231.6102, 1233.6571, 1237.6270,
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  1578.7518, 1581.8373, 1591.7852, 1600.8068, 1603.8092, 1604.8136, 1606.8130, 1608.7599, 1613.7793, 1615.8575, 1615.8600, 1628.7653, 1633.7913, 1634.7969, 1635.7941, 1639.8157, 1646.8591, 1647.8268, 1651.8206, 1653.8284, 1677.8074, 1681.8087, 1688.8287, 1690.8313,
  1694.7357, 1697.8672, 1703.8214, 1708.3533, 1709.3307, 1715.8053, 1719.8075, 1723.8743, 1724.8828, 1725.8090, 1730.8199, 1748.7931, 1757.8975, 1763.7841, 1768.8075, 1771.9686, 1774.9059, 1779.8081, 1786.8824, 1787.8207, 1790.8423, 1797.8339, 1800.8578, 1819.8838,
   1821.8926, 1822.9185, 1826.8450, 1829.8655, 1833.8975, 1836.9054, 1843.8765, 1844.8785, 1851.9031, 1859.8494, 1862.9265, 1863.9319,
  1866.8857, 1868.8972, 1879.9445, 1880.9215, 1887.9023, 1888.8057, 1890.8025, 1901.0060, 1906.8872, 1908.8663, 1913.8895, 1916.9475,
  1924.9314, 1925.9336, 1928.0060, 1931.9956, 1932.9833, 1968.8563, 1984.9392, 2008.0485, 2008.9869, 2009.9747, 2012.9506, 2015.9661,
  2020.9644, 2030.0151, 2030.4648, 2046.9839, 2047.5186, 2047.9097, 2051.9133, 2064.9746, 2070.9209, 2077.0454, 2082.9409, 2085.9888,
  2090.9844, 2097.9778, 2103.1526, 2108.9897, 2118.8926, 2140.0432, 2142.0310, 2142.9895, 2155.0667, 2159.0752, 2160.0703, 2161.0813,
  2166.0911, 2167.0676, 2174.0425, 2178.0034, 2181.0369, 2184.0767, 2189.9133, 2194.9761, 2199.0986, 2203.0464, 2205.9102, 2208.9729
  2211.1077, 2213.1116, 2214.1145, 2225.1592, 2229.1064, 2233.1023, 2269.1128, 2273.0393, 2279.1094, 2280.1204, 2283.1279, 2285.1169,
  2292.1465, 2296.1479, 2312.0664, 2323.1892, 2326.0947, 2334.1531, 2335.1282, 2337.1343, 2372.2229, 2383.9978, 2385.2129, 2392.1528,
  2400.1094, 2401.1360, 2409.1914, 2411.1907, 2414.1833, 2429.1475, 2436.1699, 2437.1758, 2440.2007, 2447.2368, 2477.1301, 2495.0542, 2498.0898, 2510.2229, 2522.1980, 2524.1689, 2527.2310, 2535.2598, 2541.2075, 2543.1907, 2544.1514, 2553.1934, 2557.2300, 2560.1125,
  2569.2915, 2572.0935, 2612.1936, 2686.3572, 2788.3362, 2963.6167, 3056.4641, 3058.5842, 3180.5432, 3313.5032, 3330.6311, 3347.6077, 3511.9668, 3761.1558
                   Mass: 18752
                                                 Score: 21
                                                                              Expect: 1.8e+002 Matches: 11
  Transcription elongation factor A protein-like 1 OS=Bos taurus GN=TCEAL1 PE=2 SV=1
 2436.1685 2436.2042 -14.65 76 - 96 2 --- R.RDLEEARPPMEGPPCGVGRHR.L + OXIGATION (M)

No match to: 724.2539, 725.2472, 728.2482, 730.2519, 732.2390, 733.2623, 739.3115, 742.4642, 743.4729, 745.4483, 747.4419,
752.3972, 754.3827, 756.3716, 758.3382, 760.3329, 764.3364, 767.4740, 768.3865, 770.3671, 772.4178, 779.4436, 784.3415, 787.2366,
788.4225, 795.4260, 799.2464, 802.4372, 805.4478, 808.4353, 811.4178, 814.4170, 819.4304, 821.4247, 822.4321, 829.4457, 837.4396,
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  906.4929, 908.4577, 913.5685, 919.5024, 925.5089, 927.4999, 928.5031, 940.4773, 942.4820, 950.4946, 957.5654, 966.4929, 969.4786, 972.5046, 974.5551, 977.5352, 978.5240, 981.4474, 989.2700, 991.5198, 993.5112, 1001.5782, 1007.5089, 1009.5097, 1013.4454,
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  1137.5565, 1143.5844, 1145.6155, 1149.5597, 1153.5929, 1158.6288, 1163.5771, 1173.6008, 1175.5867, 1177.6178, 1178.6053, 1179.5962, 1181.6432, 1192.5721, 1199.6315, 1211.5984, 1215.6246, 1216.6786, 1221.5699, 1222.5789, 1227.6271, 1228.6411, 1229.6412, 1231.6102,
  1233.6571, 1237.6270, 1238.5917, 1244.6069, 1248.5958, 1250.6042, 1255.5922, 1258.6344, 1268.6414, 1271.6490, 1275.6388, 1276.5977, 1276.6000, 1285.5864, 1294.6315, 1299.6810, 1300.6566, 1309.6340, 1320.6268, 1328.6292, 1333.7025, 1336.6038, 1338.6589, 1341.6488,
  1343.6613, 1345.6910, 1349.6838, 1350.6704, 1352.6350, 1355.6870, 1357.7130, 1358.6704, 1369.7067, 1371.7366, 1374.6705, 1377.6100, 1377.6146, 1384.7109, 1386.7134, 1390.6848, 1393.7169, 1399.6119, 1400.6588, 1406.7207, 1410.6736, 1411.6647, 1416.6047, 1418.6714,
  1421.6632, 1426.6846, 1427.7076, 1430.7102, 1432.6718, 1434.6552, 1438.6991, 1439.7164, 1443.7589, 1444.7375, 1454.6836, 1461.7990, 1472.7026, 1475.7224, 1485.6906, 1489.7172, 1490.7058, 1493.7157, 1510.7383, 1515.7393, 1523.6987, 1524.7383, 1527.7585, 1529.7466,
   1530.6902, 1531.6953, 1537.7804, 1538.7736, 1539.7621, 1541.7805, 1542.8290, 1549.6758, 1553.7277, 1555.7928, 1556.7874, 1560.7551,
  1563.7314, 1568.7372, 1570.8015, 1572.8151, 1576.7402, 1577.7395, 1578.7518, 1581.8373, 1591.7852, 1600.8068, 1603.8092, 1604.8136,
  1606.8130, 1608.7599, 1613.7793, 1615.8575, 1615.8600, 1628.7653, 1633.7913, 1634.7969, 1635.7941, 1639.8157, 1643.8085, 1646.8591,
  1647.8268, 1651.8206, 1653.8284, 1677.8074, 1681.8087, 1688.8287, 1690.8313, 1694.7357, 1697.8672, 1703.8214, 1706.8364, 1707.8435,
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           1800.8578, 1815.9008, 1819.8838, 1821.8926, 1822.9185, 1826.8450, 1829.8655, 1833.8975, 1836.9054, 1843.8765, 1844.8785, 1851.9031,
           1859.8494, 1862.9265, 1863.9319, 1866.8857, 1868.8972, 1879.9445, 1880.9215, 1887.9023, 1888.8057, 1890.8025, 1896.8954, 1901.0060,
            1906.8872, 1908.8663, 1913.8895, 1916.9475, 1924.9314, 1925.9336, 1928.0060, 1931.9956, 1932.9833, 1968.8563, 1984.9392, 2008.0485,
           2008.9869, 2009.9747, 2015.9661, 2020.9644, 2030.0151, 2030.4648, 2046.9839, 2047.5186, 2047.9097, 2051.9133, 2059.0122, 2064.9746, 2070.9209, 2077.0454, 2082.9409, 2085.9888, 2090.9844, 2097.9778, 2103.1526, 2108.9897, 2118.8926, 2140.0432, 2142.0310, 2142.9895,
           2152.0510, 2155.0667, 2159.0752, 2160.0703, 2161.0813, 2166.0911, 2167.0676, 2174.0425, 2178.0034, 2181.0369, 2184.0767, 2189.9133, 2194.9761, 2199.0986, 2203.0464, 2205.9102, 2208.9729, 2211.1077, 2213.1116, 2214.1145, 2218.1018, 2221.1035, 2223.2205, 2225.1592,
           2229.1064, 2233.1023, 2245.0991, 2269.1128, 2273.0393, 2277.0576, 2279.1094, 2280.1204, 2283.1279, 2285.1169, 2292.1465, 2296.1479,
           2312.0664, 2323.1892, 2334.1531, 2335.1282, 2337.1343, 2369.2256, 2372.2229, 2383.9978, 2385.2129, 2392.1528, 2400.1094, 2401.1360, 2409.1914, 2411.1907, 2414.1833, 2429.1475, 2436.1699, 2440.2007, 2447.2368, 2477.1301, 2495.0542, 2498.0898, 2510.2229, 2522.1980,
           2524.1689, 2527.2310, 2535.2598, 2541.2075, 2543.1907, 2544.1514, 2553.1934, 2557.2300, 2560.1125, 2569.2915, 2572.0935, 2612.1936, 2686.3572, 2788.3362, 2963.6167, 3056.4641, 3058.5842, 3180.5432, 3313.5032, 3330.6311, 3347.6077, 3511.9668, 3761.1558
                                                      Score: 21
17. <u>G3MYE2</u> Mass: 34779
                                                                                 Expect: 2e+002 Matches: 15
           Uncharacterized protein OS=Bos taurus PE=3 SV=1
            Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide
                                839.4550
                                                     839.4654 -12.34 20 - 25 1 --- R.YQVKFR.R
            856.5045 855.4972
                                                    855.4827 17.0 267 - 272 1 --- K.RWNRPK.M
956.5655 -7.70 40 - 47 1 --- R.LVIQDKNK
         856.5045 855.4972 855.4827 17.0 267 - 272 1 --- K.RNNRPK.M
957.5654 956.5581 956.5655 -7.70 40 - 47 1 --- R.LVIQDKNK.Y
1341.6488 1340.6415 1340.6693 -20.72 53 - 62 1 --- K.YRMIICVINR.D + Oxidation (M)
1358.6704 1357.6631 1357.6626 0.39 28 - 38 2 --- R.QEGKTDYYARK.R
1374.6705 1373.6632 1373.6350 20.5 214 - 224 1 --- R.YITEDEDAYKK.Q
1434.6552 1433.6479 1433.6544 -4.50 202 - 213 0 --- K.HIMGQNVADYMR.Y
1475.7224 1474.7151 1474.7198 -3.17 273 - 285 1 --- K.MSLGQENDRVAQK.K
1578.7518 1577.7445 1577.7442 0.18 201 - 213 1 --- R.KHIMGQNVADYMR.Y + Oxidation (M)
1603.8092 1602.8019 1602.8148 -8.01 273 - 286 2 --- K.MSLGQENDRVAQK.A
1730.8199 1729.8126 1729.8318 -11.09 268 - 281 1 --- R.WNRPKMSLGQENDR.V
1916.9475 1915.9402 1915.9172 12.0 73 - 89 0 --- R.IEGDMIVCAAYAHELPK.Y
2218.1018 2217.0945 2217.0670 12.4 232 - 250 2 --- K.NNVTPDMEEMYKKAHAAIR.E
2269.1128 2268.1055 2268.0950 4.65 214 - 231 2 --- R.YLITEDEDAYKKÇFSQYIK.N
3058.5842 3057.5769 3057.6256 -15.91 90 - 116 2 --- K.YGVKQLINYAVAYCTGLLLACRLINR.F
No match to: 724.2539, 725.2472, 728.2482, 730.2519, 732.2390, 733.2623, 739.3115, 742.4642, 743
           No match to: 724.2539, 725.2472, 728.2482, 730.2519, 732.2390, 733.2623, 739.3115, 742.4642, 743.4729, 745.4483, 747.4419,
           752.3972, 754.3827, 756.3716, 758.3382, 760.3329, 764.3364, 766.3494, 767.4740, 768.3865, 770.3671, 772.4178, 779.4436, 784.3415, 787.2366, 788.4225, 790.4196, 795.4260, 799.2464, 802.4372, 805.4478, 808.4353, 811.4178, 814.4170, 819.4304, 821.4247, 822.4321,
           787.2366, 788.4225, 790.4196, 795.4260, 799.2464, 802.4372, 805.4478, 808.4353, 811.4178, 814.4170, 819.4304, 821.4247, 822.4321, 829.4457, 837.4396, 842.5109, 854.4525, 858.5442, 860.4092, 863.4231, 863.9185, 869.4846, 870.5100, 872.4994, 880.4412, 904.4613, 906.4929, 908.4577, 913.5685, 919.5024, 925.5089, 927.4999, 928.5031, 940.4773, 942.4820, 950.4946, 960.4840, 966.4929, 969.4786, 972.5046, 974.5551, 977.5352, 978.5240, 981.4474, 989.2700, 991.5198, 993.5112, 1001.5782, 1007.5099, 1009.5097, 1013.4454, 1015.5522, 1018.5189, 1021.5313, 1024.5028, 1025.5192, 1029.5330, 1023.5870, 1033.5739, 1035.5203, 1045.5564, 1046.5759, 1056.5415, 1057.6005, 1064.5358, 1071.5361, 1073.5377, 1079.5398, 1083.4637, 1086.4774, 1092.6000, 1092.6002, 1094.5596,
            1096.5302, 1106.5431, 1110.5461, 1111.5398, 1111.5400, 1115.5790, 1118.5620, 1120.5724, 1123.5819, 1128.5537, 1132.5682,
           1135.5942, 1137.5565, 1143.5844, 1145.6155, 1149.5597, 1153.5929, 1158.6288, 1163.5771, 1173.6008, 1175.5867, 1177.6178, 1178.6053,
            1179.5962, 1181.6432, 1192.5721, 1199.6315, 1203.5826, 1211.5984, 1215.6246, 1216.6786, 1221.5699, 1222.5789, 1227.6271, 1228.6411,
           1229.6412, 1231.6102, 1233.6571, 1237.6270, 1238.5917, 1244.6069, 1248.5958, 1250.6042, 1255.5922, 1258.6344, 1268.6414, 1271.6490, 1275.6388, 1276.5977, 1276.6000, 1285.5864, 1294.6315, 1299.6810, 1300.6566, 1309.6340, 1320.6268, 1328.6292, 1333.7025, 1336.6038,
           1338.6589, 1343.6613, 1345.6910, 1349.6838, 1350.6704, 1352.6350, 1355.6870, 1357.7130, 1369.7067, 1371.7366, 1377.6100, 1377.6146, 1384.7109, 1386.7134, 1390.6848, 1393.7169, 1399.6119, 1400.6588, 1406.7207, 1410.6736, 1411.6647, 1416.6047, 1418.6714, 1421.6632,
           1425.7395, 1426.6846, 1427.7076, 1430.7102, 1432.6718, 1438.6991, 1439.7164, 1443.7589, 1444.7375, 1445.7306, 1454.6836, 1461.7990, 1472.7026, 1485.6906, 1489.7172, 1490.7058, 1493.7157, 1510.7383, 1515.7393, 1523.6987, 1524.7383, 1527.7585, 1529.7466, 1530.6902, 1531.6953, 1537.7804, 1538.7736, 1539.7621, 1541.7805, 1542.8290, 1549.6758, 1553.7277, 1555.7928, 1556.7874, 1560.7551, 1563.7314,
           1568.7372, 1570.8015, 1572.8151, 1576.7402, 1577.7395, 1581.8373, 1591.7852, 1600.8068, 1604.8136, 1606.8130, 1608.7599, 1613.7793, 1615.8575, 1615.8600, 1624.7632, 1628.7653, 1633.7913, 1634.7969, 1635.7941, 1639.8157, 1643.8085, 1646.8591, 1647.8268, 1651.8206,
           1653.8284, 1677.8074, 1681.8087, 1688.8287, 1690.8313, 1694.7357, 1697.8672, 1703.8214, 1706.8364, 1707.8435, 1708.3533, 1709.3307, 1710.8229, 1715.8053, 1719.8075, 1721.8296, 1723.8743, 1724.8828, 1725.8090, 1748.7931, 1757.8975, 1763.7841, 1768.8075, 1771.9686,
           1774.9059, 1777.8727, 1779.8081, 1786.8824, 1787.8207, 1790.8423, 1793.9556, 1796.8109, 1797.8339, 1800.8578, 1815.9008, 1819.8838,
           1821.8926, 1822.9185, 1826.8450, 1829.8655, 1833.8975, 1836.9054, 1843.8765, 1844.8785, 1851.9031, 1859.8494, 1862.9265, 1863.9319, 1866.8857, 1868.8972, 1879.9445, 1880.9215, 1887.9023, 1888.8057, 1890.8025, 1896.8954, 1901.0060, 1906.8872, 1908.8663, 1913.8895,
           1924.9314, 1925.9336, 1928.0060, 1931.9956, 1932.9833, 1968.8563, 1984.9392, 2008.0485, 2008.9869, 2009.9747, 2012.9506, 2015.9661, 2020.9644, 2030.0151, 2030.4648, 2046.9839, 2047.5186, 2047.9097, 2051.9133, 2059.0122, 2064.9746, 2070.9209, 2077.0454, 2082.9409,
           2085.9888, 2090.9844, 2097.9778, 2103.1526, 2108.9897, 2118.8926, 2140.0432, 2142.0310, 2142.9895, 2152.0510, 2155.0667, 2159.0752, 2160.0703, 2161.0813, 2166.0911, 2167.0676, 2174.0425, 2178.0034, 2181.0369, 2184.0767, 2189.9133, 2194.9761, 2199.0986, 2203.0464,
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           2436.1699, 2437.1758, 2440.2007, 2447.2368, 2477.1301, 2495.0542, 2498.0898, 2510.2229, 2522.1980, 2524.1689, 2527.2310, 2535.2598, 2541.2075, 2543.1907, 2544.1514, 2553.1934, 2557.2300, 2560.1125, 2569.2915, 2572.0935, 2612.1936, 2686.3572, 2788.3362, 2963.6167,
           3056.4641, 3180.5432, 3313.5032, 3330.6311, 3347.6077, 3511.9668, 3761.1558
                         Mass: 22866
                                                      Score: 20
                                                                                 Expect: 2.5e+002 Matches: 10
        Guanylyl cyclase-activating protein 2 OS=Bos taurus GN=GUCA1B PE=4 SV=2
           1134.5841, 1135.5942, 1137.5565, 1143.5844, 1145.6155, 1149.5597, 1153.5929, 1158.6288, 1163.5771, 1173.6008, 1175.5867, 1177.6178,
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   1374.6705, 1377.6100, 1377.6146, 1384.7109, 1386.7134, 1390.6848, 1393.7169, 1399.6119, 1400.6588, 1406.7207, 1410.6736, 1411.6647,
   1416.6047, 1418.6714, 1421.6632, 1425.7395, 1426.6846, 1427.7076, 1430.7102, 1432.6718, 1434.6552, 1438.6991, 1439.7164, 1443.7589,
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   1697.8672, 1703.8214, 1706.8364, 1707.8435, 1708.3533, 1709.3307, 1710.8229, 1715.8053, 1719.8075, 1721.8296, 1723.8743, 1724.8828, 1725.8090, 1730.8199, 1748.7931, 1757.8975, 1763.7841, 1768.8075, 1771.9686, 1774.9059, 1777.8727, 1779.8081, 1786.8824, 1787.8207, 1790.8423, 1793.9556, 1796.8109, 1797.8339, 1800.8578, 1815.9008, 1819.8838, 1821.8926, 1822.9185, 1826.8450, 1829.8655, 1833.8975,
  1836.9054, 1843.8765, 1844.8785, 1851.9031, 1859.8494, 1862.9265, 1863.9319, 1866.8857, 1868.8972, 1879.9445, 1880.9215, 1887.9023, 1888.8057, 1890.8025, 1896.8954, 1906.8872, 1908.8663, 1913.8895, 1916.9475, 1924.9314, 1925.9336, 1928.0060, 1931.9956, 1932.9833,
   1968.8563, 1984.9392, 2008.0485, 2008.9869, 2009.9747, 2012.9506, 2015.9661, 2020.9644, 2030.0151, 2030.4648, 2046.9839, 2047.5186, 2047.9097, 2051.9133, 2059.0122, 2064.9746, 2070.9209, 2077.0454, 2082.9409, 2085.9888, 2090.9844, 2097.9788, 2103.1526, 2108.9897,
  2118.8926, 2140.0432, 2142.0310, 2142.9895, 2152.0510, 2155.0667, 2159.0752, 2160.0703, 2161.0813, 2166.0911, 2167.0676, 2174.0425, 2178.0034, 2181.0369, 2184.0767, 2189.9133, 2194.9761, 2199.0986, 2203.0464, 2205.9102, 2208.9729, 2211.1077, 2213.1116, 2214.1145,
   2221.1035, 2223.2205, 2225.1592, 2229.1064, 2233.1023, 2245.0991, 2269.1128, 2273.0393, 2277.0576, 2279.1094, 2280.1204, 2283.1279,
  2285.1169, 2292.1465, 2296.1479, 2312.0664, 2323.1892, 2326.0947, 2334.1531, 2335.1282, 2369.2256, 2372.2229, 2383.9978, 2385.2129, 2392.1528, 2400.1094, 2401.1360, 2409.1914, 2411.1907, 2414.1833, 2429.1475, 2436.1699, 2437.1758, 2440.2007, 2447.2368, 2495.0542,
  2498.0898, 2522.1980, 2524.1689, 2527.2310, 2541.2075, 2543.1907, 2544.1514, 2553.1934, 2557.2300, 2560.1125, 2569.2915, 2572.0935, 2612.1936, 2686.3572, 2788.3362, 2963.6167, 3056.4641, 3058.5842, 3180.5432, 3313.5032, 3330.6311, 3347.6077, 3511.9668, 3761.1558
                                                        Score: 20
                                                                                         Expect: 2.6e+002 Matches: 14
                      Mass: 31878
   Tyrosine-protein kinase OS=Bos taurus GN=HCK PE=3 SV=1

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss Ions
        Peptide

        880.4412
        879.4339
        879.4371
        -3.63
        157 - 163
        1 ---
        R.ESLKMEK.K + Oxidation (M)

880.4412 879.4339 879.4371 -3.63 157 - 163 1 --- R.ESLKMEK.K + Oxidation (M)
906.4929 905.4856 905.4640 23.8 1 - 7 0 --- -.MEQTLLR.S + Oxidation (M)
1268.6414 1267.6341 1267.6197 11.4 22 - 32 0 --- K.EGYIPSNYVAR.V
1529.7466 1528.7393 1528.7369 1.58 69 - 82 1 --- R.DSETTKGSYSLSVR.D
1560.7551 1559.7478 1559.7478 1559.7845 -23.48 2 - 13 1 --- M.EQTLLR.S + Oxidation (M)
1707.8435 1706.8362 1706.8199 9.59 1 - 13 1 --- M.EQTLLRSGEWWR.A
1615.8600 1614.8527 1614.8916 -24.06 54 - 68 0 --- R.QLLAPGNYLGSFMIR.D
1707.8435 1706.8362 1706.8199 9.59 1 - 13 1 --- -.MEQTLLRSGEWWR.A + Oxidation (M)
1779.8081 1778.8008 1778.8336 -18.43 75 - 89 1 --- K.GSYSLSVRDYDPQHR.D
1787.8207 1786.8134 1786.8349 -11.99 165 - 180 0 --- K.LGAGGFGEVWMATYNK.H + Oxidation (M)
1931.9956 1930.9883 1930.9645 12.3 134 - 149 0 --- K.LTVPCMSSKPQRPWEK.D + Oxidation (M)
2103.1526 2102.1453 2102.0942 24.3 50 - 68 1 --- K.DAERQLLAPGNYLGSFMIR.D + Oxidation (M)
2155.0667 2154.0594 2154.0523 3.32 188 - 207 0 --- K.TMKPGSMSVEAFLAEANLMK.T
2203.0464 2202.0391 2202.0370 0.95 188 - 207 0 --- K.TMKPGSMSVEAFLAEANLMK.T
2203.0464 2202.0391 2202.0370 0.95 188 - 207 0 --- K.TMKPGSMSVEAFLAEANLMK.T + 3 Oxidation (M)
2535.2598 2534.2525 2534.3104 -22.83 165 - 187 2 --- K.LGAGGFGEVWMATYNKHTKVAVK.T
No match to: 724.2539, 725.2472, 728.2482, 730.2519, 732.2390, 733.2623, 739.3115, 742.4642, 743.4729, 745.4483, 747.4419, 752.3372, 754.3827, 756.3716, 758.3382, 760.3329, 764.3364, 766.3494, 767.4740, 768.3865, 770.3671, 772.4178, 779.4436, 78
   752.3972, 754.3827, 756.3716, 758.3382, 760.3329, 764.3364, 766.3494, 767.4740, 768.3865, 770.3671, 772.4178, 779.4436, 784.3415, 787.2366, 788.4225, 790.4196, 795.4260, 799.2464, 802.4372, 805.4478, 808.4353, 811.4178, 814.4170, 819.4304, 821.4247, 822.4321, 829.4457, 837.4396, 840.4623, 842.5109, 854.4525, 856.5045, 858.5442, 860.4092, 863.4233, 863.9185, 869.4846, 870.5100, 872.4994,
   904.4613, 908.4577, 913.5685, 919.5024, 925.5089, 927.4999, 928.5031, 940.4773, 942.4820, 950.4946, 957.5654, 960.4840, 966.4929, 969.4786, 972.5046, 974.5551, 977.5352, 978.5240, 981.4474, 989.2700, 991.5198, 993.5112, 1001.5782, 1007.5089, 1009.5097,
   1013.4454, 1015.5150, 1016.5522, 1018.5189, 1021.5313, 1024.5028, 1025.5192, 1029.5330, 1032.5870, 1033.5739, 1035.5203, 1045.5564, 1046.5759, 1051.5074, 1056.5415, 1057.6005, 1064.5358, 1071.5361, 1073.5377, 1079.5398, 1083.4637, 1086.4774, 1092.6000, 1092.6002,
   1094.5596, 1096.5302, 1106.5431, 1110.5461, 1111.5398, 1111.5400, 1115.5790, 1118.5620, 1120.5724, 1123.5819, 1128.5537, 1132.5682,
   1134.5841, 1135.5942, 1137.5565, 1143.5844, 1145.6155, 1149.5597, 1153.5929, 1158.6288, 1163.5771, 1173.6008, 1175.5867, 1177.6178, 1178.6053, 1179.5962, 1181.6432, 1192.5721, 1199.6315, 1203.5826, 1211.5984, 1215.6246, 1216.6786, 1221.5699, 1222.5789, 1227.6271,
   1228.6411, 1229.6412, 1231.6102, 1233.6571, 1237.6270, 1238.5917, 1244.6069, 1248.5958, 1250.6042, 1255.5922, 1258.6344, 1271.6490, 1275.6388, 1276.5977, 1276.6000, 1285.5864, 1294.6315, 1299.6810, 1300.6566, 1309.6340, 1320.6268, 1328.6292, 1333.7025, 1336.6038,
   1338.6589, 1341.6488, 1343.6613, 1345.6910, 1349.6838, 1350.6704, 1352.6350, 1355.6870, 1357.7130, 1358.6704, 1369.7067, 1371.7366, 1374.6705, 1377.6100, 1377.6146, 1384.7109, 1386.7134, 1390.6848, 1393.7169, 1399.6119, 1400.6588, 1406.7207, 1410.6736, 1411.6647, 1416.6047, 1418.6714, 1421.6632, 1425.7395, 1426.6846, 1427.7076, 1430.7102, 1432.6718, 1434.6552, 1438.6991, 1439.7164, 1443.7589,
  1444.7375, 1445.7306, 1454.6836, 1461.7990, 1472.7026, 1475.7224, 1485.6906, 1489.7172, 1490.7058, 1493.7157, 1510.7383, 1515.7393, 1523.6987, 1524.7383, 1527.7585, 1530.6902, 1531.6953, 1537.7804, 1538.7736, 1539.7621, 1541.7805, 1542.8290, 1549.6758, 1553.7277,
   1555.7928, 1556.7874, 1563.7314, 1568.7372, 1570.8015, 1572.8151, 1576.7402, 1577.7395, 1578.7518, 1581.8373, 1591.7852, 1600.8068, 1603.8092, 1604.8136, 1606.8130, 1608.7599, 1613.7793, 1615.8575, 1624.7632, 1628.7653, 1633.7913, 1634.7969, 1635.7941, 1639.8157,
   1643.8085, 1646.8591, 1647.8268, 1651.8206, 1653.8284, 1677.8074, 1681.8087, 1688.8287, 1690.8313, 1694.7357, 1697.8672, 1703.8214, 1706.8364, 1708.3533, 1709.3307, 1710.8229, 1715.8053, 1719.8075, 1721.8296, 1723.8743, 1724.8828, 1725.8090, 1730.8199, 1748.7931,
    1757.8975, 1763.7841, 1768.8075, 1771.9686, 1774.9059, 1777.8727, 1786.8824, 1790.8423, 1793.9556, 1796.8109, 1797.8339, 1800.8578,
   1815.9008, 1819.8838, 1821.8926, 1822.9185, 1826.8450, 1829.8655, 1833.8975, 1836.9054, 1843.8765, 1844.8785, 1851.9031, 1859.8494,
   1862.9265, 1863.9319, 1866.8857, 1868.8972, 1879.9445, 1880.9215, 1887.9023, 1888.8057, 1890.8025, 1896.8954, 1901.0060, 1906.8872,
   1908.8663, 1913.8895, 1916.9475, 1924.9314, 1925.9336, 1928.0060, 1932.9833, 1968.8563, 1984.9392, 2008.0485, 2008.9869, 2009.9747, 2012.9506, 2015.9661, 2020.9644, 2030.0151, 2030.4648, 2046.9839, 2047.5186, 2047.9097, 2051.9133, 2059.0122, 2064.9746, 2070.9209,
   2077.0454, 2082.9409, 2085.9888, 2090.9844, 2097.9778, 2108.9897, 2118.8926, 2140.0432, 2142.0310, 2142.9895, 2152.0510, 2159.0752,
  2160.0703, 2161.0813, 2166.0911, 2167.0676, 2174.0425, 2178.0034, 2181.0369, 2184.0767, 2189.9133, 2194.9761, 2199.0986, 2205.9102, 2208.9729, 2211.1077, 2213.1116, 2214.1145, 2218.1018, 2221.1035, 2223.2205, 2225.1592, 2229.1064, 2233.1023, 2245.0991, 2269.1128,
  2273.0393, 2277.0576, 2279.1094, 2280.1204, 2283.1279, 2285.1169, 2292.1465, 2296.1479, 2312.0664, 2323.1892, 2326.0947, 2334.1531, 2335.1282, 2337.1343, 2369.2256, 2372.2229, 2383.9978, 2385.2129, 2392.1528, 2400.1094, 2401.1360, 2409.1914, 2411.1907, 2414.1833,
  2429.1475, 2436.1699, 2437.1758, 2440.2007, 2447.2368, 2477.1301, 2495.0542, 2498.0898, 2510.2229, 2522.1980, 2524.1689, 2527.2310, 2541.2075, 2543.1907, 2544.1514, 2553.1934, 2557.2300, 2560.1125, 2569.2915, 2572.0935, 2612.1936, 2686.3572, 2788.3362, 2963.6167,
   3056.4641, 3058.5842, 3180.5432, 3313.5032, 3330.6311, 3347.6077, 3511.9668, 3761.1558
                                                                                           Expect: 2.6e+002 Matches: 22
  <u>Q2YDN4</u> Mass: 58176 Score: 20

        Coiled-coil
        domain-containing protein
        105
        OS=Bos
        taurus
        GN=CCDC105
        PE=2
        SV=1

        Observed
        Mr(expt)
        Mr(calc)
        ppm
        Start
        End Miss
        Ions
        Peptide

        772.4178
        771.4105
        771.4239
        -17.34
        255
        -261
        0
        ---
        K.VLeQAGR.H

        822.4321
        821.4249
        821.4297
        -5.85
        16
        -22
        0
        ---
        R.VGHPANR.E

        880.4412
        879.4339
        879.4371
        -3.63
        204
        -210
        1
        ---
        K.EELKSMK.R + Oxidation (M)

        972.5046
        971.4974
        971.4971
        0.29
        359
        -366
        1
        ---
        R.GTIHRCTK.F

        981.4474
        980.4401
        980.4307
        9.64
        212
        -219
        1
        ---
        R.KMEADMEK.S

        1013.4454
        1012.4381
        1012.4205
        17.4
        212
        -219
        1
        ---
        R.KMEADMEK.S
        + 20xidation (M)

        1166.5431
        1105.5358
        1063.5518
        -21.89
        350
        -358</t
   Coiled-coil domain-containing protein 105 OS=Bos taurus GN=CCDC105 PE=2 SV=1
```

```
1639.8157 1638.8084 1638.8208 -7.56 303 - 316 1 --- R.LLMESKDTLLDMAK.N + 2 Oxidation (M)
1887.9023 1886.8950 1886.8718 12.3 317 - 331 1 --- K.NEEDIREQQQQISDR.V
1925.9336 1924.9263 1924.9274 -0.55 195 - 210 2 --- K.ADSMLTWEKEELKSMK.R
2155.0667 2154.0594 2154.0462 6.12 359 - 375 2 --- R.GTIHRCTKFNQEMYITR.G
2199.0986 2198.0913 2198.0381 24.2 213 - 231 2 --- K.MEADMEKSEALLKTLASCR.D + Oxidation (M)
2292.1465 2291.1392 2291.1110 12.3 323 - 341 2 --- R.EQQQQISDRVCASLAQKMR.E + Oxidation (M)
2411.1907 2410.1834 2410.1237 24.8 469 - 487 1 --- R.HPQVCYEQAQRLVNDWDPR.T
2686.3572 2685.3499 2685.3870 -13.80 75 - 99 2 --- R.VEMLKGGSTMEKPPPGEGVTLWKSK.M
  No match to: 724.2539, 725.2472, 728.2482, 730.2519, 732.2390, 733.2623, 739.3115, 742.4642, 743.4729, 745.4483, 747.4419, 752.3972, 754.3827, 756.3716, 758.3382, 760.3329, 764.3364, 766.3494, 767.4740, 768.3865, 770.3671, 779.4436, 784.3415, 787.2366, 788.4225, 790.4196, 795.4260, 799.2464, 802.4372, 805.4478, 808.4353, 811.4178, 814.4170, 819.4304, 821.4247, 829.4457, 837.4396,
  840.4623, 842.5109, 854.4525, 856.5045, 858.5442, 860.4092, 863.4233, 863.9185, 869.4846, 870.5100, 872.4994, 904.4613, 906.4929, 908.4577, 913.5685, 919.5024, 925.5089, 927.4999, 928.5031, 940.4773, 942.4820, 950.4946, 957.5654, 960.4840, 966.4929, 969.4786,
  974.5551, 977.5352, 978.5240, 989.2700, 991.5198, 993.5112, 1001.5782, 1007.5089, 1009.5097, 1015.5150, 1016.5522, 1018.5189, 1021.5313, 1024.5028, 1025.5192, 1029.5330, 1032.5870, 1033.5739, 1035.5203, 1045.5564, 1046.5759, 1051.5074, 1056.5415, 1057.6005, 1071.5361, 1073.5377, 1079.5398, 1083.4637, 1086.4774, 1092.6000, 1092.6002, 1094.5596, 1096.5302, 1110.5461, 1111.5398, 1111.5400,
  1115.5790, 1118.5620, 1120.5724, 1123.5819, 1128.5537, 1132.5682, 1134.5841, 1135.5942, 1143.5844, 1145.6155, 1149.5597, 1153.5929, 1158.6288, 1173.6008, 1175.5867, 1177.6178, 1181.6432, 1192.5721, 1199.6315, 1203.5826, 1211.5984, 1215.6246, 1216.6786, 1221.5699,
  1222.5789, 1227.6271, 1228.6411, 1229.6412, 1231.6102, 1233.6571, 1237.6270, 1238.5917, 1244.6069, 1248.5958, 1250.6042, 1255.5922, 1268.6414, 1271.6490, 1275.6388, 1276.5977, 1276.6000, 1285.5864, 1294.6315, 1299.6810, 1300.6566, 1309.6340, 1320.6268, 1328.6292,
   1333.7025, 1336.6038, 1338.6589, 1341.6488, 1343.6613, 1345.6910, 1349.6838, 1350.6704, 1352.6350, 1355.6870, 1357.7130, 1358.6704
  1369.7067, 1371.7366, 1374.6705, 1377.6100, 1377.6146, 1384.7109, 1386.7134, 1390.6848, 1393.7169, 1399.6119, 1400.6588, 1406.7207, 1410.6736, 1411.6647, 1416.6047, 1418.6714, 1421.6632, 1425.7395, 1426.6846, 1427.7076, 1430.7102, 1432.6718, 1434.6552, 1438.6991,
  1439,7164, 1443,7589, 1444,7375, 1445,7306, 1454,6836, 1461,7990, 1472,7026, 1475,7224, 1485,6906, 1489,7172, 1490,7058, 1493,7157,
  1515.7393, 1523.6987, 1524.7383, 1527.7585, 1529.7466, 1530.6902, 1531.6953, 1537.7804, 1538.7736, 1539.7621, 1541.7805, 1542.8290,
  1549.6758, 1553.7277, 1555.7928, 1556.7874, 1560.7551, 1563.7314, 1568.7372, 1570.8015, 1572.8151, 1576.7402, 1577.7395, 1578.7518, 1581.8373, 1591.7852, 1600.8068, 1603.8092, 1604.8136, 1606.8130, 1608.7599, 1613.7793, 1615.8575, 1615.8600, 1624.7632, 1628.7653,
   1633.7913, 1634.7969, 1635.7941, 1643.8085, 1646.8591, 1647.8268, 1651.8206, 1653.8284, 1677.8074, 1681.8087, 1688.8287, 1690.8313,
  1694.7357, 1697.8672, 1703.8214, 1706.8364, 1707.8435, 1708.3533, 1709.3307, 1710.8229, 1715.8053, 1719.8075, 1721.8296, 1723.8743,
   1724.8828, 1725.8090, 1730.8199, 1748.7931, 1757.8975, 1763.7841, 1768.8075, 1771.9686, 1774.9059, 1777.8727, 1779.8081, 1786.8824,
  1787.8207, 1790.8423, 1793.9556, 1796.8109, 1797.8339, 1800.8578, 1815.9008, 1819.8838, 1821.8926, 1822.9185, 1826.8450, 1829.8655, 1833.8975, 1836.9054, 1843.8765, 1844.8785, 1851.9031, 1859.8494, 1862.9265, 1863.9319, 1866.8857, 1868.8972, 1879.9445, 1880.9215,
  1888.8057, 1890.8025, 1896.8954, 1901.0060, 1906.8872, 1908.8663, 1913.8895, 1916.9475, 1924.9314, 1928.0060, 1931.9956, 1932.9833, 1968.8563, 1984.9392, 2008.0485, 2008.9869, 2009.9747, 2012.9506, 2015.9661, 2020.9644, 2030.0151, 2030.4648, 2046.9839, 2047.5186, 2047.9097, 2051.9133, 2059.0122, 2064.9746, 2070.9209, 2077.0454, 2082.9409, 2085.9888, 2090.9844, 2097.9778, 2103.1526, 2108.9897,
  2118.8926, 2140.0432, 2142.0310, 2142.9895, 2152.0510, 2159.0752, 2160.0703, 2161.0813, 2166.0911, 2167.0676, 2174.0425, 2178.0034, 2181.0369, 2184.0767, 2189.9133, 2194.9761, 2203.0464, 2205.9102, 2208.9729, 2211.1077, 2213.1116, 2214.1145, 2218.1018, 2221.1035,
  2223.2205, 2225.1592, 2229.1064, 2233.1023, 2245.0991, 2269.1128, 2273.0393, 2277.0576, 2279.1094, 2280.1204, 2283.1279, 2285.1169, 2296.1479, 2312.0664, 2323.1892, 2326.0947, 2334.1531, 2335.1282, 2337.1343, 2369.2256, 2372.2229, 2383.9978, 2385.2129, 2392.1528,
  2400.1094, 2401.1360, 2409.1914, 2414.1833, 2429.1475, 2436.1699, 2437.1758, 2440.2007, 2447.2368, 2477.1301, 2495.0542, 2498.0898, 2510.2229, 2522.1980, 2524.1689, 2527.2310, 2535.2598, 2541.2075, 2543.1907, 2544.1514, 2553.1934, 2557.2300, 2560.1125, 2569.2915,
  2572.0935, 2612.1936, 2788.3362, 2963.6167, 3056.4641, 3058.5842, 3180.5432, 3313.5032, 3330.6311, 3347.6077, 3511.9668, 3761.1558
                                                  Score: 20
                                                                                 Expect: 2.7e+002 Matches: 24
                    Mass: 65953
  Signal recognition particle receptor subunit alpha OS=Bos taurus GN=SRPRA PE=4 SV=1
   Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide
745.4483 744.4410 744.4242 22.6 166 - 171 2 --- K.NNKKNK.G
805.4478 804.4405 804.4276 16.1 403 - 408 1 --- R.RVDMLR.D + Oxidation (M)
814.4170 813.4097 813.3915 22.3 222 - 228 1 --- K.HGRGMEK.S
819.4304 818.4231 818.4134 11.9 232 - 239 1 --- K.SSKSDAPK.E
1111.5398 1110.5325 1110.5566 -21.66 316 - 326 0 --- K.GTLGGMFGMLK.G
1131.5400 1110.5327 1110.5566 -21.48 316 - 326 0 --- K.GTLGGMFGMLK.G
1132.5682 1131.5609 1131.5455 13.7 222 - 231 2 --- K.HGRGMEKSSK.S + Oxidation (M)
1143.5844 1142.5771 1142.5832 -5.35 216 - 224 1 --- R.EEFIQKHGR.G
1299.6810 1298.6737 1298.6843 -8.18 215 - 224 2 --- K.KEVRSMIETR.G
1352.6350 1351.6277 1351.6112 12.3 337 - 347 1 --- R.EDMESVLDKMR.D
1357.7130 1356.7057 1356.6959 7.21 375 - 387 0 --- K.VMCTFSTVTSTVR.Q
1406.7207 1405.7134 1405.7023 7.88 498 - 511 0 --- K.DAAGIAMEAIAFAR.N
1445.7306 1444.7233 1444.7522 -19.95 172 - 186 2 --- K.GAKEGSDGPLATSK.A
1527.7585 1526.7512 1526.7286 14.8 132 - 144 2 --- R.APTTMKKFEDSEK.A + Oxidation
                                                                         22.6 166 - 171 2 ---
   745.4483
                          744.4410
                                                 744.4242
                                                                                                                                  K.NNKKNK.G
1445.7306 1444.7233 1444.7522 -19.95 172 - 186 2 --- K.GAKKEGSDGPLATSK.A
1527.7585 1526.7512 1526.7286 14.8 132 - 144 2 --- R.APTTMKKFEDSSK.A + Oxidation (M)
1538.7736 1537.7663 1537.7294 24.0 333 - 345 1 --- K.SLTREDMESVLDK.M + Oxidation (M)
1604.8136 1603.8063 1603.7776 17.9 216 - 228 2 --- R.EPIQKHGRGMEK.S + Oxidation (M)
1634.7969 1633.7896 1633.8028 -8.08 403 - 415 2 --- R.RVDMLRDIMDAQR.H + Oxidation (M)
1677.8074 1676.8001 1676.8403 -23.95 123 - 137 2 --- R.EAEESSKIRAPTTMK.K
1730.8199 1729.8126 1729.8318 -11.10 567 - 581 1 --- K.FNRALADHSMAQTPR.L + Oxidation (M)
1771.9686 1770.9613 1770.9774 -9.08 147 - 161 2 --- K.KPVRSMIETRGEKPK.E + Oxidation (M)
2030.0151 2029.0078 2028.9972 5.23 337 - 353 2 --- R.EDMESVLDKMRDHLIAK.N
2229.1064 2228.0991 2228.1470 -21.51 354 - 374 1 --- K.NVAADIAVQLCESVANKLEGK.V
3347.6077 3346.6004 3346.6582 -17.26 92 - 119 2 --- R.DKYRTEIQQQSALSLLINGTFDPQNDFLR.L
  No match to: 724.2539, 725.2472, 728.2482, 730.2519, 732.2390, 733.2623, 739.3115, 742.4642, 743.4729, 747.4419, 752.3972, 754.3827, 756.3716, 758.3382, 760.3329, 764.3364, 766.3494, 767.4740, 768.3865, 770.3671, 772.4178, 779.4436, 784.3415, 787.2366, 788.4225, 790.4196, 795.4260, 799.2464, 802.4372, 808.4353, 811.4178, 821.4247, 822.4321, 829.4457, 837.4396, 840.4623, 842.5109,
   854.4525, 856.5045, 858.5442, 860.4092, 863.4233, 863.9185, 869.4846, 870.5100, 872.4994, 880.4412, 904.4613, 906.4929, 908.4577
  913.5685, 919.5024, 925.5089, 927.4999, 928.5031, 940.4773, 942.4820, 950.4946, 957.5654, 960.4840, 966.4929, 969.4786, 972.5046, 974.5551, 977.5352, 978.5240, 981.4474, 989.2700, 991.5198, 993.5112, 1001.5782, 1007.5089, 1009.5097, 1013.4454, 1015.5150,
  1016.5522, 1018.5189, 1021.5313, 1024.5028, 1025.5192, 1029.5330, 1032.5870, 1033.5739, 1035.5203, 1045.5564, 1046.5759, 1051.5074, 1056.5415, 1057.6005, 1064.5358, 1071.5361, 1073.5377, 1079.5398, 1083.4637, 1086.4774, 1092.6000, 1092.6002, 1094.5596, 1096.5302,
  1106.5431, 1110.5461, 1115.5790, 1118.5620, 1120.5724, 1123.5819, 1128.5537, 1134.5841, 1135.5942, 1137.5565, 1145.6155, 1149.5597, 1153.5929, 1158.6288, 1163.5771, 1173.6008, 1175.5867, 1177.6178, 1178.6053, 1179.5962, 1181.6432, 1192.5721, 1199.6315, 1203.5826,
   1211.5984, 1215.6246, 1221.5699, 1222.5789, 1227.6271, 1228.6411, 1229.6412, 1231.6102, 1233.6571, 1237.6270, 1238.5917, 1244.6069,
  1248.5958, 1250.6042, 1255.5922, 1258.6344, 1268.6414, 1271.6490, 1275.6388, 1276.5977, 1276.6000, 1285.5864, 1294.6315, 1300.6566, 1309.6340, 1320.6268, 1328.6292, 1333.7025, 1336.6038, 1338.6589, 1341.6488, 1343.6613, 1345.6910, 1349.6838, 1350.6704, 1355.6870,
  1358.6704, 1369.7067, 1371.7366, 1374.6705, 1377.6100, 1377.6146, 1384.7109, 1386.7134, 1390.6848, 1393.7169, 1399.6119, 1400.6588, 1410.6736, 1411.6647, 1416.6047, 1418.6714, 1421.6632, 1425.7395, 1426.6846, 1427.7076, 1430.7102, 1432.6718, 1434.6552, 1438.6991,
  1439.7164, 1443.7589, 1444.7375, 1454.6836, 1461.7990, 1472.7026, 1475.7224, 1485.6906, 1489.7172, 1490.7058, 1493.7157, 1510.7383, 1515.7393, 1523.6987, 1524.7383, 1529.7466, 1530.6902, 1531.6953, 1537.7804, 1539.7621, 1541.7805, 1542.8290, 1549.6758, 1553.7277,
   1555.7928, 1556.7874, 1560.7551, 1563.7314, 1568.7372, 1570.8015, 1572.8151, 1576.7402, 1577.7395, 1578.7518, 1581.8373, 1591.7852,
  1600.8068, 1603.8092, 1606.8130, 1608.7599, 1613.7793, 1615.8575, 1615.8600, 1624.7632, 1628.7653, 1633.7913, 1635.7941, 1639.8157,
   1643.8085, 1646.8591, 1647.8268, 1651.8206, 1653.8284, 1681.8087, 1688.8287, 1690.8313, 1694.7357, 1697.8672, 1703.8214, 1706.8364,
   1707.8435, 1708.3533, 1709.3307, 1710.8229, 1715.8053, 1719.8075, 1721.8296, 1723.8743, 1724.8828, 1725.8090, 1748.7931, 1757.8975,
   1763.7841, 1768.8075, 1774.9059, 1777.8727, 1779.8081, 1786.8824, 1787.8207, 1790.8423, 1793.9556, 1796.8109, 1797.8339, 1800.8578,
  1815.9008, 1819.8838, 1821.8926, 1822.9185, 1826.8450, 1829.8655, 1833.8975, 1836.9054, 1843.8765, 1844.8785, 1851.9031, 1859.8494, 1862.9265, 1863.9319, 1866.8857, 1868.8972, 1879.9445, 1880.9215, 1887.9023, 1888.8057, 1890.8025, 1896.8954, 1901.0060, 1906.8872,
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1908.8663, 1913.8895, 1916.9475, 1924.9314, 1925.9336, 1928.0060, 1931.9956, 1932.9833, 1968.8563, 1984.9392, 2008.0485, 2008.9869, 2009.9747, 2012.9506, 2015.9661, 2020.9644, 2030.4648, 2046.9839, 2047.5186, 2047.9097, 2051.9133, 2059.0122, 2064.9746, 2070.9209,
  2077.0454, 2082.9409, 2085.9888, 2090.9844, 2097.9778, 2103.1526, 2108.9897, 2118.8926, 2140.0432, 2142.0310, 2142.9895, 2152.0510,
  2155.0667, 2159.0752, 2160.0703, 2161.0813, 2166.0911, 2167.0676, 2174.0425, 2178.0034, 2181.0369, 2184.0767, 2189.9133, 2194.9761,
  2199.0986, 2203.0464, 2205.9102, 2208.9729, 2211.1077, 2213.1116, 2214.1145, 2218.1018, 2221.1035, 2223.2205, 2225.1592, 2233.1023,
  2245.0991, 2269.1128, 2273.0393, 2277.0576, 2279.1094, 2280.1204, 2283.1279, 2285.1169, 2292.1465, 2296.1479, 2312.0664, 2323.1892, 2326.0947, 2334.1531, 2335.1282, 2337.1343, 2369.2256, 2372.2229, 2383.9978, 2385.2129, 2392.1528, 2400.1094, 2401.1360, 2409.1914,
  2411.1907, 2414.1833, 2429.1475, 2436.1699, 2437.1758, 2440.2007, 2447.2368, 2477.1301, 2495.0542, 2498.0898, 2510.2229, 2522.1980, 2524.1689, 2527.2310, 2535.2598, 2541.2075, 2543.1907, 2544.1514, 2553.1934, 2557.2300, 2560.1125, 2569.2915, 2572.0935, 2612.1936,
  2686.3572, 2788.3362, 2963.6167, 3056.4641, 3058.5842, 3180.5432, 3313.5032, 3330.6311, 3511.9668, 3761.1558
  Q3MHN7
                   Mass: 69222
                                                        Score: 20
                                                                                            Expect: 2.7e+002 Matches: 23
  Endonuclease 8-like 3 OS=Bos taurus GN=NEIL3 PE=2 SV=2
   Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide
                                                      789.4232 -13.76 167 - 173 1 ---
    790.4196
                             789.4123
                                                                                                                                                  R.AESEVKK.Q
                                                                                                                            0 ---
                                                                                                511 - 518
   966.4929 965.4856 965.4977 -12.53
                                                                                                                                                  K.HGRPCALR.V
963.4929 963.4939 963.4931 7-12.53 511 - 518 0 --- K.HGRPCALR.V

1346.5759 1045.5766 1337.6802 -21.36 576 - 586 1 --- K.NFFVCPLGKEK.Q

1341.6488 1340.6415 1340.6554 -10.34 508 - 518 1 --- K.NFFVCPLGKEK.Q

1341.6488 1340.6415 1385.6761 21.6 367 - 378 2 --- K.YPCNSFCKSKAK.V

1393.7169 1392.7096 1392.7071 1.79 448 - 459 0 --- K.VINSPVVCSQYK.L

1489.7172 1488.7099 1488.7395 -19.85 354 - 366 0 --- R.NEGNPIVFNNLMK.Y

1529.7466 1528.7393 1528.7668 -17.95 2 - 15 1 --- M.VEGPGCTLNGEKIR.A

1537.7804 1536.7731 1536.7541 12.4 237 - 249 2 --- R.CCKWGSALSKHYK.V

1578.7518 1577.7445 1577.7838 -24.90 69 - 83 0 --- R.LFNGHGYSGVETLGK.E

1600.8068 1599.7995 1599.7603 24.5 128 - 140 0 --- K.DLICFFDSSVEIR.N

1603.8092 1602.8019 1602.7858 10.1 149 - 161 1 --- R.IRVMEELDVCSPR.F

1721.8296 1720.8223 1720.8423 -11.58 174 - 187 2 --- K.QKGRMLCDVLMDQK.V

1757.8975 1756.8902 1756.9043 -7.99 293 - 307 1 --- R.MLPVRNTTVNWPSSR.E

1821.8926 1820.8853 1820.8509 18.9 338 - 353 0 --- K.TCDACLTSRPADSVLR.N

1862.9265 1861.9192 1861.9006 10.0 523 - 538 2 --- K.SGENKGRHFYACPLAR.E

1968.8563 1967.8490 1967.8369 6.16 253 - 267 1 --- K.RPNCGQCCCKITVCR.L

2059.0122 2058.0049 2058.0429 -18.44 293 - 309 2 --- R.MLPVRNTTVNWPSSRER.H + Oxidation (M)

2312.0664 2311.0591 2311.0824 -10.08 319 - 337 1 --- K.REGNNRMTYFCPHQK.E + Oxidation (M)

2312.0664 2311.0591 2311.0824 -10.08 319 - 337 1 --- K.TEGNNRMTYFCPHQK.E + Oxidation (M)

2312.0664 2311.0591 2311.0824 -10.08 319 - 337 1 --- K.TEGNNRMTYFCPHQK.E + Oxidation (M)

2312.0664 2311.0591 2311.0824 -10.08 319 - 337 1 --- K.TEGNNRMTYFCPHQK.E + Oxidation (M)

2312.0664 2311.0591 2311.0824 -10.08 319 - 337 1 --- K.TEGNNRMTYFCPHQK.E + Oxidation (M)

2312.0664 2311.0591 2311.0824 -10.08 319 - 337 1 --- K.TEGNNRMTYFCPHQK.E + Oxidation (M)

2312.0664 2311.0591 2311.0824 -10.08 319 - 337 1 --- K.TEGNNRMTYFCPHQK.E + Oxidation (M)

2312.0664 2311.0591 2311.0824 -10.08 319 - 337 1 --- K.TEGNNRMTYFCPHQK.E + Oxidation (M)

2312.0664 2310.591 2311.0524 -10.08 319 - 337 1 --- K.TEGNNRMTYFCPHQK.E + Oxidation (M)

2312.0664 2310
 1046.5759 1045.5686 1045.5767 -7.76
                                                                                                167 - 175 2 --- R.AESEVKKOK.G
  No match to: 724.2539, 725.2472, 728.2482, 730.2519, 732.2390, 733.2623, 739.3115, 742.4642, 743.4729, 745.4483, 747.4419,
  752.3972, 754.3827, 756.3716, 758.3382, 760.3329, 764.3364, 766.3494, 767.4740, 768.3865, 770.3671, 772.4178, 779.4436, 784.3415, 787.2366, 788.4225, 795.4260, 799.2464, 802.4372, 805.4478, 808.4353, 811.4178, 814.4170, 819.4304, 821.4247, 822.4321, 829.4457,
  787.4386, 840.4623, 842.5109, 854.4525, 856.5045, 858.5442, 860.4092, 863.4233, 863.9185, 869.4846, 870.5100, 872.4994, 880.4412, 904.4613, 906.4929, 908.4577, 913.5685, 919.5024, 925.5089, 927.4999, 928.5031, 940.4773, 942.4820, 950.4946, 957.5554, 960.4840, 969.4786, 972.5046, 974.5551, 977.5352, 978.5240, 981.4474, 989.2700, 991.5198, 993.5112, 1001.5782, 1007.5089, 1009.5097, 1013.4454, 1015.5150, 1016.5522, 1018.5189, 1021.5313, 1024.5028, 1025.5192, 1029.5330, 1032.5870, 1033.5739, 1035.5203, 1045.5564, 1051.5074, 1056.5415, 1057.6005, 1064.5558, 1071.5361, 1073.5377, 1079.5398, 1083.4637, 1086.4774, 1092.6000, 1092.6002, 1094.5596,
  1096.5302, 1106.5431, 1110.5461, 1111.5398, 1111.5400, 1115.5790, 1118.5620, 1120.5724, 1123.5819, 1128.5537, 1132.5682, 1134.5841, 1135.5942, 1137.5565, 1143.5844, 1145.6155, 1149.5597, 1153.5929, 1158.6288, 1163.5771, 1173.6008, 1175.5867, 1177.6178, 1178.6053,
  1179.5962, 1181.6432, 1192.5721, 1199.6315, 1203.5826, 1211.5984, 1215.6246, 1216.6786, 1221.5699, 1222.5789, 1227.6271, 1228.6411,
  1229.6412, 1231.6102, 1233.6571, 1237.6270, 1238.5917, 1244.6069, 1248.5958, 1250.6042, 1255.5922, 1258.6344, 1268.6414, 1271.6490, 1275.6388, 1276.5977, 1276.6000, 1285.5864, 1294.6315, 1299.6810, 1300.6566, 1309.6340, 1320.6268, 1328.6292, 1333.7025, 1336.6038,
  1343.6613, 1345.6910, 1349.6838, 1350.6704, 1352.6350, 1355.6870, 1357.7130, 1358.6704, 1369.7067, 1371.7366, 1374.6705, 1377.6100, 1377.6146, 1384.7109, 1390.6848, 1399.6119, 1400.6588, 1406.7207, 1410.6736, 1411.6647, 1416.6047, 1418.6714, 1421.6632, 1425.7395,
  1426.6846, 1427.7076, 1430.7102, 1432.6718, 1434.6552, 1438.6991, 1439.7164, 1443.7589, 1444.7375, 1445.7306, 1454.6836, 1461.7990, 1472.7026, 1475.7224, 1485.6906, 1490.7058, 1493.7157, 1510.7383, 15123.6987, 1524.7383, 1527.7585, 1530.6902, 1531.6953, 1538.7366, 1539.7621, 1541.7805, 1542.8290, 1549.6758, 1553.7277, 1555.7928, 1556.7874, 1560.7551, 1563.7314, 1568.7372, 1570.8015, 1572.8151, 1576.7402, 1577.7395, 1581.8373, 1591.7852, 1604.8136, 1606.8130, 1608.7599, 1613.7793, 1615.8575, 1615.8600, 1624.7632,
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  1688.8287, 1690.8313, 1694.7357, 1697.8672, 1703.8214, 1706.8364, 1707.8435, 1708.3533, 1709.3307, 1710.8229, 1715.8053, 1719.8075, 1723.8743, 1724.8828, 1725.8090, 1730.8199, 1748.7931, 1763.7841, 1768.8075, 1771.9686, 1774.9059, 1777.8727, 1779.8081, 1786.8824,
  1787.8207, 1790.8423, 1793.9556, 1796.8109, 1797.8339, 1800.8578, 1815.9008, 1819.8838, 1822.9185, 1826.8450, 1829.8655, 1833.8975, 1836.9054, 1843.8765, 1844.8785, 1851.9031, 1859.8494, 1863.9319, 1866.8857, 1868.8972, 1879.9445, 1880.9215, 1887.9023, 1888.8057,
  1890.8025, 1896.8954, 1901.0060, 1906.8872, 1908.8663, 1913.8895, 1916.9475, 1924.9314, 1925.9336, 1928.0060, 1931.9956, 1932.9833, 1984.9392, 2008.0485, 2008.9869, 2009.9747, 2012.9506, 2015.9661, 2020.9644, 2030.0151, 2030.4648, 2046.9839, 2047.5186, 2047.9097,
  2051.9133, 2064.9746, 2077.0454, 2082.9409, 2085.9888, 2090.9844, 2097.9778, 2103.1526, 2108.9897, 2118.8926, 2140.0432, 2142.0310,
  2142.9895, 2152.0510, 2155.0667, 2159.0752, 2160.0703, 2161.0813, 2166.0911, 2167.0676, 2174.0425, 2178.0034, 2181.0369, 2184.0767, 2189.9133, 2194.9761, 2199.0986, 2203.0464, 2205.9102, 2208.9729, 2211.1077, 2213.1116, 2214.1145, 2218.1018, 2221.1035, 2223.2205,
  2225.1592, 2229.1064, 2233.1023, 2245.0991, 2269.1128, 2273.0393, 2277.0576, 2279.1094, 2280.1204, 2283.1279, 2285.1169, 2292.1465
  2296.1479, 2323.1892, 2326.0947, 2334.1531, 2335.1282, 2337.1343, 2369.2256, 2372.2229, 2383.9978, 2385.2129, 2392.1528, 2400.1094,
  2401.1360, 2411.1907, 2414.1833, 2429.1475, 2436.1699, 2437.1758, 2440.2007, 2447.2368, 2477.1301, 2495.0542, 2498.0898, 2510.2229, 2522.1980, 2524.1689, 2527.2310, 2535.2598, 2541.2075, 2543.1907, 2544.1514, 2553.1934, 2557.2300, 2560.1125, 2569.2915, 2572.0935, 2612.1936, 2686.3572, 2788.3362, 2963.6167, 3058.5842, 3180.5432, 3313.5032, 3330.6311, 3347.6077, 3511.9668, 3761.1558
                                                                                            Expect: 2.7e+002 Matches: 34
  Uncharacterized protein OS=Bos taurus GN=MAP7D3 PE=4 SV=1
                                                                             ppm Start End Miss Ions Peptide
   Observed Mr(expt) Mr(calc)
802.4372 801.4299 801.4344 -5.64 547 - 552 1 --- K.EERLQK.E
819.4304 818.4231 818.4358 -15.58 162 - 168 1 --- R.SSSLNRR.C
870.5100 869.5027 869.5235 -24.00 120 - 126 1 --- K.FKAVLHR.T
960.4840 959.4767 959.4784 -1.82 96 - 102 2 --- K.EKDQRR.I
1001.5782 1000.5709 1000.5665 4.42 539 - 546 2 --- R.LAREQKEK.E
1016.5522 1015.5449 1015.5410 3.83 154 - 161 2 --- K.TETPEKRR.S
1046.5759 1045.5686 1045.5628 5.54 739 - 747 1 --- R.SSTKRPTMR.A
1071.5361 1070.5288 1070.5356 -6.36 514 - 524 1 --- K.ESGNKGTPGPK.N
1145.6155 1144.6082 1144.6088 -0.47 66 - 74 1 --- K.ESGNKGTPGPK.N
1221.5699 1220.5626 1220.5455 14.0 109 - 117 1 --- K.RNEMLEEER.E + Oxidation (M)
1222.5789 1221.5716 1221.5772 -4.54 754 - 764 0 --- K.AETSSTMRPSR.S
1231.6102 1230.6029 1230.6316 -23.32 98 - 107 2 --- K.DEQRRISAEK.K
1238.5917 1237.5844 1237.5721 9.97 754 - 764 0 --- K.AETSSTMRPSR.S + Oxidation (M)
1276.5977 1275.5904 1275.5691 16.7 592 - 601 1 --- K.RESQEQEDQK.V
1276.6000 1275.5927 1275.5691 18.5 592 - 601 1 --- K.RESQEQEDQK.V
                                                                              -5.64 547 - 552 1 ---
                            801.4299
                                                                                                                                                  K.EERLOK.E
                                                       801.4344
                                                                                                592 - 601 1 --- K.RESQEQEDQK.V
 1276.6000 1275.5927 1275.5691
                                                                                18.5
                                                                                               519 - 531 1 --- K.GTPGPKNAEEATK.I
713 - 723 1 --- K.AFLNTDMKTFR.Q
  1299.6810 1298.6737 1298.6466
                                                                                20.9
 1343.6613 1342.6540 1342.6703 -12.16
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1386.7134 1385.7061 1385.7238 -12.73 422 - 432 1 --- K.RIPPSQIPCYR.W
1426.6846 1425.6773 1425.7108 -23.48 553 - 563 2 --- K.EMEQSFIRKMK.D
1443.7589 1442.7516 1442.7841 -22.53 726 - 738 2 --- K.EMEQSFIRKMK.D
1524.7383 1523.7310 1523.7362 -3.39 751 - 764 1 --- K.TGKRETSSTMRPSR.S + Oxidation (M)
1527.7585 1526.7512 1526.7650 -9.02 76 - 87 2 --- K.SKIVYEKQMEEK.Q + Oxidation (M)
1530.6902 1529.6829 1529.7209 -24.83 172 - 184 0 --- R.LHSSTETEQIEEK.R
1542.8290 1541.8217 1541.8347 -8.45 627 - 638 1 --- R.IMQNLQERLER.K
1604.8136 1603.8063 1603.7817 15.3 823 - 837 1 --- K.SVPAPSGKALSCFHF.-
1615.8575 1614.8502 1614.8188 19.5 713 - 725 2 --- K.AFLNTDMKTFRQK.G + Oxidation (M)
1715.8053 1714.7980 1714.8382 -23.44 483 - 498 1 --- R.TVPAQNALGTMGMKSK.A + 2 Oxidation (M)
1715.8053 1714.7980 1714.8382 -23.44 483 - 498 1 --- R.TVPAQNALGTMGMKSK.A + 2 Oxidation (M)
17174.9059 1773.8986 1773.8957 7.30 497 - 513 1 --- K.SKVSPAPSGKALSCFHF.-
1822.9185 1821.9112 1821.9043 3.81 547 - 560 2 --- R.SKSVPAPSGKALSCFHF.-
1822.9185 1821.9112 1821.9043 3.81 547 - 560 2 --- R.GSVYSCLSHQPPIDNKNR.S
2009.9747 2008.9674 2008.9749 -3.71 803 - 820 1 --- R.GSVYSCLSHQPPIDNKNRS.S
No match to: 724.2539, 725.2472, 728.2482, 730.2519, 732.2390, 733.2623, 739.3115, 742.4642, 743.4729
   No match to: 724.2539, 725.2472, 728.2482, 730.2519, 732.2390, 733.2623, 739.3115, 742.4642, 743.4729, 745.4483, 747.4419,
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   840.4623, 842.5109, 854.4525, 856.5045, 858.5442, 860.4092, 863.4233, 863.9185, 869.4846, 872.4994, 880.4412, 904.4613, 906.4929, 908.4577, 913.5685, 919.5024, 925.5089, 927.4999, 928.5031, 940.4773, 942.4820, 950.4946, 957.5654, 966.4929, 969.4786, 972.5046,
   974.5551, 977.5352, 978.5240, 981.4474, 989.2700, 991.5198, 993.5112, 1007.5089, 1009.5097, 1013.4454, 1015.5150, 1018.5189, 1021.5313, 1024.5028, 1025.5192, 1029.5330, 1032.5870, 1033.5739, 1035.5203, 1045.5564, 1051.5074, 1056.5415, 1057.6005, 1064.5358, 1073.5377, 1079.5398, 1083.4637, 1086.4774, 1092.6000, 1092.6002, 1094.5596, 1096.5302, 1106.5431, 1110.5461, 1111.5398, 1111.5400,
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    1215.6246, 1216.6786, 1227.6271, 1228.6411, 1229.6412, 1233.6571, 1237.6270, 1244.6069, 1248.5958, 1250.6042, 1255.5922, 1258.6344,
   1268.6414, 1271.6490, 1275.6388, 1285.5864, 1294.6315, 1300.6566, 1309.6340, 1320.6268, 1328.6292, 1333.7025, 1336.6038, 1338.6589, 1341.6488, 1345.6910, 1349.6838, 1350.6704, 1352.6350, 1355.6870, 1357.7130, 1358.6704, 1369.7067, 1371.7366, 1374.6705, 1377.6100,
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   1539.7621, 1541.7805, 1549.6758, 1553.7277, 1555.7928, 1556.7874, 1560.7551, 1563.7314, 1568.7372, 1570.8015, 1572.8151, 1576.7402,
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   1634.7969, 1635.7941, 1639.8157, 1643.8085, 1646.8591, 1647.8268, 1651.8206, 1653.8284, 1677.8074, 1681.8087, 1688.8287, 1690.8313, 1694.7357, 1697.8672, 1703.8214, 1706.8364, 1707.8435, 1708.3533, 1709.3307, 1710.8229, 1719.8075, 1721.8296, 1723.8743, 1724.8828,
   1725.8090, 1730.8199, 1748.7931, 1757.8975, 1763.7841, 1768.8075, 1771.9686, 1777.8727, 1779.8081, 1786.8824, 1787.8207, 1790.8423, 1793.9556, 1796.8109, 1800.8578, 1815.9008, 1821.8926, 1826.8450, 1829.8655, 1833.8975, 1836.9054, 1843.8765, 1844.8785, 1851.9031,
    1859.8494, 1862.9265, 1863.9319, 1866.8857, 1868.8972, 1879.9445, 1880.9215, 1887.9023, 1888.8057, 1890.8025, 1896.8954, 1901.0060,
   1906.8872, 1908.8663, 1913.8895, 1916.9475, 1924.9314, 1925.9336, 1928.0060, 1931.9956, 1932.9833, 1968.8563, 1984.9392, 2008.0485,
    2008.9869, 2012.9506, 2015.9661, 2020.9644, 2030.0151, 2030.4648, 2046.9839, 2047.5186, 2047.9097, 2051.9133, 2059.0122, 2064.9746,
   2070.9209, 2077.0454, 2082.9409, 2085.9888, 2090.9844, 2097.9778, 2103.1526, 2108.9897, 2118.8926, 2140.0432, 2142.0310, 2142.9895, 2152.0510, 2155.0667, 2159.0752, 2160.0703, 2161.0813, 2166.0911, 2167.0676, 2174.0425, 2178.0034, 2181.0369, 2184.0767, 2189.9133,
   2194.9761, 2199.0986, 2203.0464, 2205.9102, 2208.9729, 2211.1077, 2213.1116, 2214.1145, 2218.1018, 2221.1035, 2223.2205, 2229.1064, 2233.1023, 2245.0991, 2269.1128, 2273.0393, 2277.0576, 2279.1094, 2280.1204, 2283.1279, 2285.1169, 2292.1465, 2296.1479, 2312.0664,
   2323.1892, 2326.0947, 2334.1531, 2335.1282, 2337.1343, 2369.2256, 2372.2229, 2383.9978, 2385.2129, 2392.1528, 2400.1094, 2401.1360,
   2409.1914, 2411.1907, 2414.1833, 2429.1475, 2436.1699, 2437.1758, 2440.2007, 2447.2368, 2477.1301, 2495.0542, 2498.0898, 2510.2229, 2522.1980, 2524.1689, 2527.2310, 2535.2598, 2541.2075, 2543.1907, 2544.1514, 2553.1934, 2557.2300, 2560.1125, 2569.2915, 2572.0935,
   2612.1936, 2686.3572, 2788.3362, 2963.6167, 3056.4641, 3058.5842, 3180.5432, 3313.5032, 3330.6311, 3347.6077, 3511.9668, 3761.1558
  P02548 Mass: 62665 Score: 19
                                                                                            Expect: 2.8e+002 Matches: 18
   Neurofilament light polypeptide OS=Bos taurus GN=NEFL PE=1 SV=3

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss
        Ions
        Peptide

        1015.5150
        1014.5077
        1014.4995
        8.09
        129 - 136
        1
        ---
        K.HSEPSRFR.A

        1021.5313
        1020.5240
        1020.5240
        0.05
        137 - 144
        0
        ---
        R.ALYEQEIR.D

1021.5313 1020.5240 1020.5240 0.05 137 - 144 0 --- R.ALYEQEIR.D 1024.5028 1023.4955 1023.4873 8.08 178 - 185 0 --- R.YEEEVLSR.E 1271.6490 1270.6417 1270.6530 -8.91 127 - 136 2 --- R.QKHSEPSRFR.A 1276.5977 1275.5904 1275.5877 2.13 186 - 196 1 --- R.EDAEGRLMEAR.K 1276.6000 1275.5927 1275.5877 3.93 186 - 196 1 8 R.EDAEGRLMEAR.K 1390.6848 1389.6775 1389.6736 2.86 542 - 554 2 --- K.DEGAGEEQATKKK.D 1393.7169 1392.7096 1392.7435 -24.30 381 - 392 1 --- K.MALDIEITAAYRK.L 1443.7589 1442.7516 1442.7365 10.5 198 - 211 1 --- K.MALDIEITAAYRK.L 1445.7306 1444.7233 1444.7157 5.25 145 - 157 1 --- R.DLRLAAEDATNEK.Q 1542.8290 1541.8217 1541.8314 -6.29 18 - 30 1 --- R.YVETPRVHISSVR.S 1606.8130 1605.8057 1605.8110 -3.31 173 - 185 1 --- R.NLQARYEEEVLSR.E 1843.8765 1842.8692 1842.9071 -20.56 148 - 164 1 --- R.LAAEDATNEK.QARYEEEVLSR.E 1863.9319 1862.9246 1862.8866 20.4 317 - 332 1 --- K.TLEIEACRGMNEALEK.Q 2020.9644 2019.9571 2019.9326 12.1 2 - 17 2 --- M.SSFSYEPYYSTSYKRR.Y 2323.1892 2322.1819 2322.1492 14.1 401 - 422 0 --- R.LORGRAGERETKEAECKEK.D No match to: 724.2539, 725.2472, 728.2482, 730.2519, 732.2390, 733.2623, 739.3115, 742.464
  2494.0469 2494.0469 2494.0544 4.63 520 - 541 2 --- K.EEEGEGEEAEETKRAEETKK.D No match to: 724.2539, 725.2472, 728.2482, 730.2519, 732.2390, 733.2623, 739.3115, 742.4642, 743.4729, 745.4483, 747.4419, 752.3972, 754.3827, 756.3716, 758.3382, 760.3329, 764.3364, 766.3494, 767.4740, 768.3865, 770.3671, 772.4178, 779.4436, 784.3415, 787.2366, 788.4225, 790.4196, 795.4260, 799.2464, 802.4372, 805.4478, 808.4353, 811.4178, 814.4170, 819.4304, 821.4247, 822.4321, 829.4457, 837.4396, 840.4623, 842.5109, 854.4525, 856.5045, 858.5442, 860.4092, 863.4233, 863.9185, 869.4846, 870.5100, 872.4994, 880.4412, 904.4613, 906.4929, 908.4577, 913.5685, 919.5024, 925.5089, 927.4999, 928.5031, 940.4773, 942.4820, 950.4946, 957.5654, 960.4840, 966.4929, 969.4786, 972.5046, 974.5551, 977.5352, 978.5240, 981.4474, 989.2700, 991.5198, 993.5112, 1001.5782, 1007.5089, 1009.5097, 1013.4454, 1016.5522, 1018.5189, 1025.5192, 1029.5330, 1032.5870, 1033.5739, 1035.5203, 1045.5564, 1046.5759, 1051.5074, 1056.6051, 1066.6052, 1066.6052, 1073.6564, 1073.6587, 1073.6587, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.65888, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6588, 1074.6
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 2560.1125, 2569.2915, 2572.0935, 2612.1936, 2686.3572, 2788.3362, 2963.6167, 3056.4641, 3058.5842, 3180.5432, 3313.5032, 3330.6311,
 3347.6077, 3511.9668, 3761.1558
<u>E1BF55</u> Mass: 69481
                                             Score: 19
                                                                     Expect: 2.8e+002 Matches: 24
 Uncharacterized protein OS=Bos taurus GN=MAP7D2 PE=4 SV=2
  Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide
                                         744.4494 -11.19
                                                                       302 - 307
                                                                                                              K.ILSEKR.R
                                                                          4 - 9 0 ---
                                         765.3513 -11.95
  766.3494
                      765.3422
                                                                                                              R.LEAMMR.R + Oxidation (M)
                                                                         195 - 201
                      789.4123
                                         789.4021 13.0
                                                                                                              K.AYPQSPK.N

    802.4372
    801.4299
    801.4344
    -5.64
    368 - 374
    1 ---
    K.VAEEAKR.K

    919.5024
    918.4952
    918.4770
    19.8
    229 - 236
    2 ---
    K.ADKEKSNK.E

    1032.5870
    1031.5797
    1031.5797
    0.01
    439 - 446
    2 ---
    K.KRIDEIMK.R

    1045.5564
    1044.5491
    1044.5312
    17.2
    121 - 129
    1 ---
    K.SSPTRNVER.K

    1072.5304
    1072.5335
    -2.88
    87 - 95
    1 ---
    K.QTEPPMSKR.L

                                                                        1 - 9 1 --- -.QERLEAMMR.R
191 - 201 1 --- K.ATSKAYPQSPK.N
 1163.5771 1162.5698 1162.5587
                                                            9.61
 1177.6178 1176.6105 1176.6139 -2.84
1177.6178 1176.6105 1176.6139 -2.84 191 - 201 1 --- K.ATSKAYPQSPK.N
1179.5962 1178.5889 1178.6143 -21.51 183 - 194 1 --- R.SSSPYTSKATSK.A
1432.6718 1431.6645 1431.6889 -17.00 23 - 38 1 --- K.KCSSGGASLAAGPGGR.D
1434.6552 1433.6479 1433.6642 -11.38 424 - 434 0 --- R.EGIMLQMEGER.L
1454.6836 1453.6763 1453.7049 -19.63 96 - 109 0 --- R.LSSSTAAISYSPDR.A
1510.7383 1509.7310 1509.7535 -14.91 117 - 129 2 --- K.SSYKSSPTRNVER.K
1560.7551 1559.7478 1559.7838 -23.07 22 - 38 2 --- K.KKCSSGGASLAAGPGGR.D
1570.8015 1569.7942 1569.7998 -3.56 237 - 251 1 --- K.EKGILPQQAASSPK.E
1647.8268 1646.8195 1646.8046 9.09 406 - 420 2 --- K.EAAEAKAQEAAKQMR.L + Oxidation (M)
1748.7931 1747.7858 1747.8224 -20.95 283 - 301 0 --- R.DAASGKPTAGTIDAGEATK.I
1771.9686 1770.9613 1770.9556 3.22 582 - 597 0 --- R.LKREQIMLQMEGER.L + 2 Oxidation (M)
1901.0060 1899.9987 1900.0452 -24.44 163 - 181 1 --- R.ATASVPSVGLMSPLRSISK.R
2020.9644 2019.9571 2019.9829 -12.78 423 - 437 2 --- K.REOIMLOMEDERLER.K + 2 Oxidation (M)
 2020.9644 2019.9571 2019.9829 -12.78 423 - 437
2218.1018 2217.0945 2217.0985 -1.81 278 - 301
                                                                                             2 --- K.REQIMLQMEQERLER.K + 2 Oxidation (M)
                                                                        278 - 301 2 ---
                                                                                                              K.AKGGRDAASGKPTAGTTDAGEATK.I
 2217.0945 2217.0945 2217.0945 -1.81 278 - 301 2 --- K.AKGGRDAASGKPTAGTTDAGGATK.1

No match to: 724.2539, 725.2472, 728.2482, 730.2519, 732.2390, 733.2623, 739.3115, 742.4642, 743.4729, 747.4419, 752.3972, 754.3827, 756.3716, 758.3382, 760.3329, 764.3364, 767.4740, 768.3865, 770.3671, 772.4178, 779.4436, 784.3415, 787.2366, 788.4225, 795.4260, 799.2464, 805.4478, 808.4353, 811.4178, 814.4170, 819.4304, 821.4247, 822.4321, 829.4457, 837.4396, 840.4623, 842.5109, 854.4525, 856.5045, 858.5442, 860.4092, 863.4233, 863.9185, 869.4846, 870.5100, 872.4994, 880.4412, 904.4613, 906.4929, 908.4577,
                                                                                                                                                                                                                    842 5109.
 913.5685, 925.5089, 927.4999, 928.5031, 940.4773, 942.4820, 950.4946, 957.5654, 960.4840, 966.4929, 969.4786, 972.5046, 974.5551, 977.5352, 978.5240, 981.4474, 989.2700, 991.5198, 993.5112, 1001.5782, 1007.5089, 1009.5097, 1013.4454, 1015.5150, 1016.5522,
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  1439.7164, 1443.7589, 1444.7375, 1445.7306, 1461.7990, 1472.7026, 1475.7224, 1485.6906, 1489.7172, 1490.7058, 1493.7157,
 1523.6987, 1524.7383, 1527.7585, 1529.7466, 1530.6902, 1531.6953, 1537.7804, 1538.7736, 1539.7621, 1541.7805, 1542.8290, 1549.6758, 1553.7277, 1555.7928, 1556.7874, 1563.7314, 1568.7372, 1572.8151, 1576.7402, 1577.7395, 1578.7518, 1581.8373, 1591.7852, 1600.8068,
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  1706.8364, 1707.8435, 1708.3533, 1709.3307, 1710.8229, 1715.8053, 1719.8075, 1721.8296, 1723.8743, 1724.8828, 1725.8090,
 1757.8975, 1763.7841, 1768.8075, 1774.9059, 1777.8727, 1779.8081, 1786.8824, 1787.8207, 1790.8423, 1793.9556, 1796.8109, 1797.8339, 1800.8578, 1815.9008, 1819.8838, 1821.8926, 1822.9185, 1826.8450, 1829.8655, 1833.8975, 1836.9054, 1843.8765, 1844.8785, 1851.9031,
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 2012.9506, 2015.9661, 2030.0151, 2030.4648, 2046.9839, 2047.5186, 2047.9097, 2051.9133, 2059.0122, 2064.9746, 2070.9209, 2077.0454, 2082.9409, 2085.9888, 2090.9844, 2097.9778, 2103.1526, 2108.9897, 2118.8926, 2140.0432, 2142.0310, 2142.9895, 2152.0510, 2155.0667,
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 2334.1531, 2335.1282, 2337.1343, 2369.2256, 2372.2229, 2383.9978, 2385.2129, 2392.1528, 2400.1094, 2401.1360, 2409.1914, 2411.1907, 2414.1833, 2429.1475, 2436.1699, 2437.1758, 2440.2007, 2447.2368, 2477.1301, 2495.0542, 2498.0898, 2510.2229, 2522.1980, 2524.1689,
 2527.2310, 2535.2598, 2541.2075, 2543.1907, 2544.1514, 2553.1934, 2557.2300, 2560.1125, 2569.2915, 2572.0935, 2612.1936, 2686.3572, 2788.3362, 2963.6167, 3056.4641, 3058.5842, 3180.5432, 3313.5032, 3330.6311, 3347.6077, 3511.9668, 3761.1558
 E1BGS4 Mass: 63649
                                          Score: 19
                                                                     Expect: 2.8e+002 Matches: 23
 Uncharacterized protein OS=Bos taurus GN=TXLNA PE=4 SV=1
  Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide
                                                                         324 - 329
                      769.3599
                                         769.3606
                                                                                                              R.EEHIDK.V
                                         862.4331 -19.71
                      862.4161
                                                                        209 - 215
                                                                                                              R.NSQKQMK.L
                                                            11.8 162 - 168 2 --- R.RPQEKKK.A
15.5 142 - 150 0 --- K.GEPGPDEIR.T
                     912.5613
                                         912.5505 11.8
                     968.4713
                                         968.4563
 1024.5028 1023.4955 1023.4729 22.1 417 - 424 1 --- K.QEMEKMTK.K
1045.5564 1044.5491 1044.5564 -6.92 258 - 266 1 --- R.SLKEEGVQR.A
                                                                         3 - 12 2 --- K.NQDKKNGPSK.Q
474 - 482 1 --- K.LCRALQSER.N
458 - 467 1 --- R.DKELEGLQVK.I
 1115.5790 1114.5717 1114.5731 -1.20
 1132.5682 1131.5609 1131.5818 -18.49
 1158.6288 1157.6215 1157.6292 -6.61
                                                                                             1 --- R.TSDEVVDRDHR.R
1 --- K.EISKGEPGPDEIR.T
2 --- R.ALQSERNDLNKR.V
                                                           7.73
                                                                         151 - 161
 1328.6292 1327.6219 1327.6117
 1426.6846 1425.6773 1425.7099 -22.88
                                                                          138 - 150
                                                                          477 - 488
 1443.7589 1442.7516 1442.7589
                                                           -5.07
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752.3972, 754.3827, 756.3716, 758.3382, 760.3329, 764.3364, 766.3494, 767.4740, 768.3865, 772.4178, 779.4436, 784.3415, 787.2366, 788.4225, 790.4196, 795.4260, 799.2464, 802.4372, 805.4478, 808.4353, 811.4178, 814.4170, 819.4304, 821.4247, 822.4321, 829.4457,
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  1355.6870, 1357.7130, 1358.6704, 1369.7067, 1371.7366, 1374.6705, 1377.6100, 1377.6146, 1384.7109, 1386.7134, 1390.6848, 1393.7169, 1399.6119, 1400.6588, 1406.7207, 1410.6736, 1411.6647, 1416.6047, 1418.6714, 1421.6632, 1425.7395, 1427.7076, 1430.7102, 1432.6718,
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  1542.8290, 1549.6758, 1553.7277, 1555.7928, 1556.7874, 1560.7551, 1563.7314, 1568.7372, 1570.8015, 1572.8151, 1576.7402, 1577.7395, 1578.7518, 1581.8373, 1591.7852, 1600.8068, 1603.8092, 1604.8136, 1606.8130, 1608.7599, 1613.7793, 1615.8575, 1615.8600, 1624.7632,
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  1694.7357, 1697.8672, 1703.8214, 1707.8435, 1708.3533, 1709.3307, 1710.8229, 1715.8053, 1719.8075, 1721.8296, 1723.8743, 1724.8828, 1725.8090, 1730.8199, 1748.7931, 1757.8975, 1763.7841, 1768.8075, 1771.9686, 1774.9059, 1777.8727, 1779.8081, 1786.8824, 1787.8207,
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  2142.9895, 2152.0510, 2155.0667, 2159.0752, 2160.0703, 2161.0813, 2166.0911, 2167.0676, 2178.0034, 2181.0369, 2184.0767, 2189.9133, 2194.9761, 2199.0986, 2203.0464, 2205.9102, 2208.9729, 2211.1077, 2213.1116, 2214.1145, 2218.1018, 2221.1035, 2223.2205, 2225.1592,
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                                                      Score: 19
                                                                                          Expect: 2.8e+002 Matches: 13
  Putative uncharacterized protein MGC133880 OS=Bos taurus GN=MGC133880 PE=2 SV=1
Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide
 No match to: 724.2539, 725.2472, 728.2482, 730.2519, 732.2390, 733.2623, 739.3115, 742.4642, 743.4729, 745.4483, 747.4419, 752.3972, 754.3827, 756.3716, 758.3382, 760.3329, 764.3364, 766.3494, 767.4740, 768.3865, 770.3671, 772.4178, 779.4436, 784.3415, 787.2366, 788.4225, 790.4196, 795.4260, 799.2464, 802.4372, 808.4353, 811.4178, 814.4170, 819.4304, 821.4247, 822.4321, 829.4457,
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  1009.5097, 1013.4454, 1015.5150, 1016.5522, 1024.5028, 1025.5192, 1029.5330, 1032.5870, 1033.5739, 1035.5203, 1045.5564, 1046.5759, 1051.5074, 1056.5415, 1057.6005, 1064.5358, 1071.5361, 1073.5377, 1079.5398, 1083.4637, 1086.4774, 1092.6000, 1092.6002, 1094.5596,
  1096.5302, 1106.5431, 1110.5461, 1111.5398, 1111.5400, 1115.5790, 1120.5724, 1123.5819, 1128.5537, 1132.5682, 1134.5841, 1135.5942, 1137.5565, 1143.5844, 1145.6155, 1149.5597, 1153.5929, 1158.6288, 1163.5771, 1173.6008, 1175.5867, 1177.6178, 1178.6053, 1179.5962,
  1181.6432, 1192.5721, 1199.6315, 1203.5826, 1211.5984, 1215.6246, 1216.6786, 1221.5699, 1222.5789, 1227.6271, 1228.6411, 1229.6412, 1231.6102, 1233.6571, 1237.6270, 1238.5917, 1244.6069, 1248.5958, 1250.6042, 1258.6344, 1268.6414, 1271.6490, 1275.6388, 1276.5977,
  1276.6000, 1285.5864, 1294.6315, 1299.6810, 1300.6566, 1309.6340, 1320.6268, 1328.6292, 1333.7025, 1336.6038, 1338.6589, 1341.6488
  1343.6613, 1345.6910, 1349.6838, 1350.6704, 1352.6350, 1355.6870, 1357.7130, 1358.6704, 1369.7067, 1371.7366, 1374.6705, 1377.6100,
  1377.6146, 1384.7109, 1386.7134, 1390.6848, 1399.6119, 1400.6588, 1406.7207, 1410.6736, 1411.6647, 1416.6047, 1418.6714, 1421.6632,
  1425.7395, 1426.6846, 1427.7076, 1430.7102, 1432.6718, 1434.6552, 1438.6991, 1439.7164, 1443.7589, 1444.7375, 1445.7306, 1454.6836, 1461.7990, 1472.7026, 1475.7224, 1485.6906, 1490.7058, 1493.7157, 1510.7383, 1515.7393, 1523.6987, 1524.7383, 1527.7585, 1529.7466,
  1530.6902, 1531.6953, 1537.7804, 1538.7736, 1539.7621, 1541.7805, 1542.8290, 1549.6758, 1553.7277, 1555.7928, 1556.7874, 1560.7551, 1563.7314, 1568.7372, 1570.8015, 1572.8151, 1576.7402, 1577.7395, 1578.7518, 1581.8373, 1591.7852, 1600.8068, 1603.8092, 1604.8136,
   1606.8130, 1608.7599, 1613.7793, 1615.8575, 1615.8600, 1624.7632, 1628.7653, 1633.7913, 1634.7969, 1639.8157, 1643.8085,
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  1863.9319, 1866.8857, 1868.8972, 1879.9445, 1880.9215, 1887.9023, 1888.8057, 1890.8025, 1896.8954, 1901.0060, 1906.8872, 1908.8663, 1913.8895, 1916.9475, 1924.9314, 1925.9336, 1928.0060, 1931.9956, 1932.9833, 1968.8563, 1984.9392, 2008.0485, 2008.9869, 2009.9747, 2012.9506, 2015.9661, 2020.9644, 2030.0151, 2030.4648, 2046.9839, 2047.5186, 2047.9097, 2051.9133, 2059.0122, 2064.9746, 2070.9209,
 2077.0454, 2082.9409, 2085.9888, 2090.9844, 2097.9778, 2103.1526, 2108.9897, 2118.8926, 2140.0432, 2142.0310, 2142.9895, 2152.0510, 2155.0667, 2159.0752, 2160.0703, 2161.0813, 2166.0911, 2167.0676, 2174.0425, 2178.0034, 2181.0369, 2184.0767, 2189.9133, 2194.9761,
  2203.0464, 2205.9102, 2208.9729, 2211.1077, 2213.1116, 2218.1018, 2221.1035, 2223.2205, 2225.1592, 2229.1064, 2233.1023, 2245.0991, 2269.1128, 2273.0393, 2279.1094, 2280.1204, 2283.1279, 2285.1169, 2292.1465, 2296.1479, 2312.0664, 2323.1892, 2326.0947, 2334.1531,
 2335.1282, 2337.1343, 2369.2256, 2372.2229, 2383.9978, 2385.2129, 2392.1528, 2400.1094, 2401.1360, 2409.1914, 2411.1907, 2414.1833, 2429.1475, 2436.1699, 2437.1758, 2440.2007, 2447.2368, 2477.1301, 2495.0542, 2498.0898, 2510.2229, 2522.1980, 2524.1689, 2527.2310,
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2535.2598, 2541.2075, 2543.1907, 2544.1514, 2553.1934, 2557.2300, 2560.1125, 2569.2915, 2572.0935, 2612.1936, 2686.3572, 2788.3362, 2963.6167, 3056.4641, 3058.5842, 3180.5432, 3313.5032, 3330.6311, 3347.6077, 3511.9668, 3761.1558
                                                                      Score: 19
                             Mass: 29800
                                                                                                             Expect: 2.9e+002 Matches: 14
   Troponin T fast skeletal muscle type OS=Bos taurus GN=Tnnt3 PE=2 SV=1

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss Ions
        Peptide

        802.4372
        801.4299
        801.4457
        -19.67
        153
        - 159
        2
        ---
        K.ADQKRGK.K

                                 862.4161 862.4331 -19.71
990.5125 990.5280 -15.66
                                                                                                                      161 - 167
                                                                                                                                                                                 K.QTAREMK.K
 991.5198 990.5125 990.5280 -15.66 161 - 168 2 --- K.QTAREMKK.K

1007.5089 1006.5016 1006.5229 -21.17 161 - 168 2 --- K.QTAREMKK.K + Oxidation (M)

1143.5844 1142.5771 1142.5904 -11.64 92 - 100 2 --- K.ATSARGANYSSYLAK.A + Oxidation (M)

1653.8284 1652.8211 1652.7933 16.8 194 - 206 0 --- K.ALSSMGANYSSYLAK.A + Oxidation (M)

1653.8284 1669.8240 1689.8396 -9.19 137 - 152 1 --- K.ALSSMGANYSSYLAK.A

1706.8364 1705.8291 1705.8345 -3.14 137 - 152 1 --- K.KALSSMGANYSSYLAK.A + Oxidation (M)

1887.9023 1886.8950 1886.9196 -31.03 59 - 74 0 --- K.ALSSMGANYSSYLAK.A + Oxidation (M)

1887.9023 1886.8950 1886.9196 -13.03 59 - 74 0 --- K.ALSSMGANYSSYLAKADK.R + Oxidation (M)

2020.9644 2019.9571 2019.9571 0.01 138 - 156 1 --- K.ALSSMGANYSSYLAKADK.R + Oxidation (M)

2161.0813 2160.0740 2160.0633 4.97 138 - 157 2 --- K.ALSSMGANYSSYLAKADCK.R + Oxidation (M)

21414.1833 2413.1760 2413.2172 -17.05 55 - 74 2 --- K.ALSSMGANYSSYLAKADCKR.G

No match to: 724.2539, 725.2472, 728.2482, 730.2519, 732.2390, 733.2623, 739.3115, 742.4642, 743.4729,
                                                                                                                    161 - 168 2 --- K.QTAREMKK.K
    No match to: 724.2539, 725.2472, 728.2482, 730.2519, 732.2390, 733.2623, 739.3115, 742.4642, 743.4729, 745.4483, 747.4419,
    752.3972, 754.3827, 756.3716, 758.3382, 760.3329, 764.3364, 766.3494, 767.4740, 768.3865, 770.3671, 772.4178, 779.4436, 784.3415, 787.2366, 788.4225, 790.4196, 795.4260, 799.2464, 805.4478, 808.4353, 811.4178, 814.4170, 819.4304, 821.4247, 822.4321, 829.4457,
     837.4396, 840.4623, 842.5109, 854.4525, 856.5045, 858.5442, 860.4092, 863.9185, 869.4846, 870.5100, 872.4994, 880.4412, 904.4613,
    906.4929, 908.4577, 913.5685, 919.5024, 925.5089, 927.4999, 928.5031, 940.4773, 942.4820, 950.4946, 957.5654, 960.4840, 966.4986, 972.5046, 974.5551, 977.5352, 978.5240, 981.4474, 989.2700, 993.5112, 1001.5782, 1009.5097, 1013.4454, 1015.5150,
                                                                                                                                                                                                                                                                                                                                                   966 4929
    1016.5522, 1018.5189, 1021.5313, 1024.5028, 1025.5192, 1029.5330, 1032.5870, 1033.5739, 1035.5203, 1045.5564, 1046.5759, 1051.5074, 1056.5415, 1057.6005, 1064.5358, 1071.5361, 1073.5377, 1079.5398, 1083.4637, 1086.4774, 1092.6000, 1092.6002, 1094.5596, 1096.5302,
    1106.5431, 1110.5461, 1111.5398, 1111.5400, 1115.5790, 1118.5620, 1120.5724, 1123.5819, 1128.5537, 1132.5682, 1134.5841, 1135.5942, 1137.5565, 1145.6155, 1149.5597, 1153.5929, 1158.6288, 1163.5771, 1173.6008, 1175.5867, 1177.6178, 1178.6053, 1179.5962, 1181.6432, 1192.5721, 1199.6315, 1203.5826, 1211.5984, 1215.6246, 1216.6786, 1221.5699, 1222.5789, 1227.6271, 1228.6411, 1229.6412, 1231.6102,
    1233.6571, 1237.6270, 1238.5917, 1244.6069, 1248.5958, 1250.6042, 1255.5922, 1258.6344, 1268.6414, 1271.6490, 1275.6388, 1276.5977, 1276.6000, 1285.5864, 1294.6315, 1299.6810, 1300.6566, 1309.6340, 1320.6268, 1328.6292, 1333.7025, 1336.6038, 1338.6589, 1341.6488,
    1343.6613, 1345.6910, 1349.6838, 1350.6704, 1352.6350, 1355.6870, 1357.7130, 1358.6704, 1369.7067, 1371.7366, 1374.6705, 1377.6100
    1377.6146, 1384.7109, 1386.7134, 1390.6848, 1393.7169, 1399.6119, 1400.6588, 1406.7207, 1410.6736, 1411.6647, 1416.6047, 1418.6714,
     1421.6632, 1425.7395, 1426.6846, 1427.7076, 1430.7102, 1432.6718, 1434.6552, 1438.6991, 1439.7164, 1443.7589, 1444.7375, 1445.7306,
   1454.6836, 1461.7990, 1472.7026, 1475.7224, 1485.6906, 1489.7172, 1490.7058, 1493.7157, 1510.7383, 1515.7393, 1523.6987, 1524.7383, 1527.7585, 1529.7466, 1530.6902, 1531.6953, 1537.7804, 1538.7736, 1539.7621, 1541.7805, 1542.8290, 1549.6758, 1553.7277, 1555.7928,
    1556.7874, 1560.7551, 1563.7314, 1568.7372, 1570.8015, 1572.8151, 1576.7402, 1577.7395, 1581.8373, 1591.7852, 1600.8068, 1603.8092, 1604.8136, 1606.8130, 1608.7599, 1613.7793, 1615.8575, 1615.8600, 1624.7632, 1628.7653, 1633.7913, 1634.7969, 1635.7941, 1639.8157,
    1643.8085, 1646.8591, 1647.8268, 1651.8206, 1677.8074, 1681.8087, 1688.8287, 1694.7357, 1697.8672, 1703.8214, 1707.8435, 1708.8533, 1709.3307, 1710.8229, 1715.8053, 1719.8075, 1721.8296, 1723.8743, 1724.8828, 1725.8090, 1730.8199, 1748.7931, 1757.8975, 1768.8075, 1771.9686, 1774.9059, 1777.8727, 1779.8081, 1786.8824, 1787.8207, 1790.8423, 1793.9556, 1796.8109, 1797.8339, 1800.8578,
   1815.9008, 1819.8838, 1821.8926, 1822.9185, 1826.8450, 1829.8655, 1833.8975, 1836.9054, 1843.8765, 1844.8785, 1851.9031, 1859.8494, 1862.9265, 1863.9319, 1866.8857, 1868.8972, 1879.9445, 1880.9215, 1888.8057, 1890.8025, 1896.8954, 1901.0060, 1906.8872, 1908.8663,
   1913.8895, 1916.9475, 1924.9314, 1925.9336, 1928.0060, 1931.9956, 1932.9833, 1968.8563, 1984.9392, 2008.0485, 2008.9869, 2009.9747, 2012.9506, 2015.9661, 2030.0151, 2030.4648, 2046.9839, 2047.5186, 2047.9097, 2051.9133, 2059.0122, 2064.9746, 2070.9209, 2077.0454,
   2082.9409, 2085.9888, 2090.9844, 2097.9778, 2103.1526, 2108.9897, 2118.8926, 2140.0432, 2142.0310, 2142.9895, 2152.0510, 2155.0667, 2159.0752, 2166.0911, 2167.0676, 2174.0425, 2178.0034, 2181.0369, 2184.0767, 2189.9133, 2194.9761, 2199.0986, 2203.0464, 2205.9102,
    2208.9729, 2211.1077, 2213.1116, 2214.1145, 2218.1018, 2221.1035, 2223.2205, 2225.1592, 2229.1064, 2233.1023, 2245.0991, 2269.1128,
   2273.0393, 2277.0576, 2279.1094, 2280.1204, 2283.1279, 2285.1169, 2292.1465, 2296.1479, 2312.0664, 2323.1892, 2326.0947, 2334.1531, 2335.1282, 2337.1343, 2369.2256, 2372.2229, 2383.9978, 2385.2129, 2392.1528, 2400.1094, 2401.1360, 2409.1914, 2411.1907, 2429.1475,
   2436.1699, 2437.1758, 2440.2007, 2447.2368, 2477.1301, 2495.0542, 2498.0898, 2510.2229, 2522.1980, 2524.1689, 2527.2310, 2535.2598, 2541.2075, 2543.1907, 2544.1514, 2553.1934, 2557.2300, 2560.1125, 2569.2915, 2572.0935, 2612.1936, 2686.3572, 2788.3362, 2963.6167,
    3056.4641, 3058.5842, 3180.5432, 3313.5032, 3330.6311, 3347.6077, 3511.9668, 3761.1558
  G5E6L5 Mass: 47201
                                                                    Score: 19
                                                                                                          Expect: 3e+002 Matches: 19
    Centrosomal protein of 290 kDa OS=Bos taurus GN=CEP290 PE=4 SV=1

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss Ions
        Peptide

        940.4773
        939.4700
        939.4662
        4.11
        13 - 20
        0 ---
        R.NKGNSVFNK,Y

        1007.5089
        1006.5016
        1006.5196
        -17.84
        388 - 396
        1 ---
        R.NKGNSVFNK,Y

        1015.5150
        1014.5077
        1014.4957
        11.9
        1 - 8
        0 ---
        M.NKGNSVFNK,Y

        1092.6000
        1091.5927
        1091.5863
        6.11
        374 - 382
        0 ---
        K.NTFIIEDLK.N

        1115.5790
        1114.5717
        1114.5982
        -23.76
        331 - 340
        1 ---
        K.LKNAQLDADK.S

        1432.6718
        1431.6645
        1431.6589
        3.90
        152 - 163
        1 ---
        K.SEVENDNSKLR.R

        1489.7172
        1488.7099
        1488.7355
        -17.15
        341 - 353
        0 ---
        K.SESGENNIHLFR.I

        1572.8151
        1571.8078
        1571.8406
        -20.86
        21 - 34
        0 ---
        R.QEELADNLLISLSK.V

        1647.8268
        1646.8195
        1646.8488
        -17.80
        383 - 396
        2 ---
        K.NELQRNKGNSVFNK.Y

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss Ions
        Peptide

        940.4773
        939.4700
        939.4662
        4.11
        13 - 20
        0 ---
        K.VDPDE

   No match to: 724.2539, 725.2472, 728.2482, 730.2519, 732.2390, 733.2623, 739.3115, 742.4642, 743.4729, 745.4483, 747.4419, 752.3972, 754.3827, 756.3716, 758.3382, 760.3329, 764.3364, 766.3494, 767.4740, 768.3865, 770.3671, 772.4178, 779.4436, 784.3415, 787.2366, 788.4225, 790.4196, 795.4260, 799.2464, 802.4372, 805.4478, 808.4353, 811.4178, 814.4170, 819.4304, 821.4247, 822.4321,
   829.4457, 837.4396, 840.4623, 842.5109, 854.4525, 856.5045, 858.5442, 860.4092, 863.4233, 863.9185, 869.4846, 870.5100, 872.4994, 880.4412, 904.4613, 906.4929, 908.4577, 913.5685, 919.5024, 925.5089, 927.4999, 928.5031, 942.4820, 950.4946, 957.5654, 960.4840, 966.4929, 969.4786, 972.5046, 974.5551, 977.5352, 978.5240, 981.4474, 989.2700, 991.5198, 993.5112, 1001.5782, 1009.5097, 1013.4454, 1016.5522, 1018.5189, 1021.5313, 1024.5028, 1025.5192, 1029.5330, 1032.5870, 1033.5739, 1035.5203, 1045.5564, 1046.5759, 1051.5074, 1056.5415, 1057.6005, 1064.5358, 1071.5361, 1073.5377, 1079.5398, 1083.4637, 1086.4774, 1094.5596, 1096.5302, 1106.5431, 1075.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 1079.5701, 107
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    1199.6315, 1203.5826, 1211.5984, 1215.6246, 1216.6786, 1221.5699, 1222.5789, 1227.6271, 1228.6411, 1229.6412, 1231.6102, 1233.6571, 1237.6270, 1238.5917, 1244.6069, 1248.5958, 1250.6042, 1255.5922, 1258.6344, 1268.6414, 1271.6490, 1275.6388, 1276.5977, 1276.6000,
   1285.5864, 1294.6315, 1299.6810, 1300.6566, 1309.6340, 1320.6268, 1328.6292, 1333.7025, 1336.6038, 1338.6589, 1341.6488, 1345.6910, 1349.6838, 1350.6704, 1352.6350, 1355.6870, 1357.7130, 1358.6704, 1369.7067, 1371.7366, 1374.6705, 1377.6100, 1377.6146, 1384.7109, 1386.7134, 1390.6848, 1393.7169, 1399.6119, 1400.6588, 1406.7207, 1410.6736, 1411.6647, 1416.6047, 1418.6714, 1421.6632,
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1425.7395, 1426.6846, 1427.7076, 1430.7102, 1434.6552, 1438.6991, 1439.7164, 1443.7589, 1444.7375, 1445.7306, 1454.6836, 1461.7990, 1472.7026, 1475.7224, 1485.6906, 1493.7157, 1510.7383, 1515.7393, 1523.6987, 1524.7383, 1527.7585, 1529.7466, 1530.6902, 1531.6953, 1537.7804, 1538.7736, 1539.7621, 1541.7805, 1542.8290, 1549.6758, 1553.7277, 1555.7928, 1556.7874, 1560.7551, 1563.7314, 1568.7372, 1570.8015, 1576.7402, 1577.7395, 1578.7518, 1581.8373, 1591.7852, 1600.8068, 1603.8092, 1604.8136, 1606.8130, 1608.7599, 1613.7793, 1615.8575, 1615.8600, 1624.7632, 1628.7653, 1633.7913, 1634.7969, 1635.7941, 1639.8157, 1643.8085, 1646.8591, 1651.8206, 1653.8284, 1627.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 1607.8037, 
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     1786.8824, 1787.8207, 1793.9556, 1796.8109, 1797.8339, 1800.8578, 1815.9008, 1819.8838, 1821.8926, 1822.9185, 1826.8450, 1829.8655, 1833.8975, 1836.9054, 1843.8765, 1844.8785, 1851.9031, 1859.8494, 1862.9265, 1863.9319, 1866.8857, 1868.8972, 1879.9445, 1880.9215,
     1887.9023, 1888.8057, 1890.8025, 1896.8954, 1901.0060, 1906.8872, 1908.8663, 1913.8895, 1916.9475, 1924.9314, 1925.9336, 1928.0060,
     1931.9956, 1932.9833, 1968.8563, 1984.9392, 2008.0485, 2008.9869, 2009.9747, 2012.9506, 2020.9644, 2030.0151, 2030.4648, 2046.9839, 2047.5186, 2047.9097, 2051.9133, 2059.0122, 2064.9746, 2070.9209, 2077.0454, 2082.9409, 2085.9888, 2090.9844, 2097.9778, 2103.1526,
     2108.9897, 2118.8926, 2140.0432, 2142.0310, 2142.9895, 2152.0510, 2155.0667, 2159.0752, 2160.0703, 2161.0813, 2166.0911, 2167.0676, 2174.0425, 2178.0034, 2181.0369, 2184.0767, 2189.9133, 2194.9761, 2199.0986, 2203.0464, 2205.9102, 2208.9729, 2211.1077, 2213.1116,
     2214.1145, 2218.1018, 2221.1035, 2223.2205, 2225.1592, 2233.1023, 2269.1128, 2273.0393, 2277.0576, 2279.1094, 2280.1204, 2283.1279, 2285.1169, 2296.1479, 2312.0664, 2323.1892, 2326.0947, 2334.1531, 2335.1282, 2337.1343, 2369.2256, 2372.2229, 2383.9978, 2385.2129,
     2392.1528, 2400.1094, 2401.1360, 2409.1914, 2411.1907, 2414.1833, 2429.1475, 2436.1699, 2437.1758, 2440.2007, 2447.2368, 2477.1301, 2495.0542, 2498.0898, 2510.2229, 2522.1980, 2524.1689, 2527.2310, 2535.2598, 2541.2075, 2543.1907, 2544.1514, 2553.1934, 2557.2300, 2560.1125, 2569.2915, 2572.0935, 2612.1936, 2686.3572, 2788.3362, 2963.6167, 3056.4641, 3058.5842, 3180.5432, 3313.5032, 3330.6311,
     3347.6077. 3511.9668. 3761.1558
                                                                                                  Expect: 3e+002 Matches: 9
    F1MJU1
                          Mass: 14824 Score: 19
     Histone H2B OS=Bos taurus PE=3 SV=2
      Observed Mr(expt) Mr(calc)
745.4483 744.4410 744.4494
                                                                                   ppm Start End Miss Ions Peptide
                                                           744.4494 -11.21 18 - 24 1 --- K.AVTKAQK.D
   745.4483 744.4410 744.4494 -11.21 18 - 24 1 --- K.AVTKAQK.D
1092.6000 1091.5927 1091.5975 -4.35 2 - 12 1 --- M.PEPAKSAPAPK.K
1092.6002 1091.5929 1091.5975 -4.17 2 - 12 1 --- M.PEPAKSAPAPK.K
1137.5565 1136.5492 1136.5390 9.02 35 - 43 0 --- K.ESYSVYVYK.V
1199.6315 1198.6242 1198.6306 -5.31 108 - 119 1 --- K.HAVSEGTKAATK.Y
1604.8136 1603.8063 1603.8430 -22.88 79 - 91 2 --- R.EHYNKRSTITSR.E
1628.7653 1627.7580 1627.7334 15.1 58 - 71 0 --- K.AMGIMNSVNDIFER.I + 2 Oxidation (M)
1793.9556 1792.9483 1792.9068 23.2 108 - 124 2 --- K.HAVSEGTKAATKYTSSR.F
2788.3362 2787.3289 2787.3289 2787.3684 -14.15 47 - 71 1 --- K.QVHPDTGILSKAMGIMNSVNDIFER.I + Oxidation (M)
    No match to: 724.2539, 725.2472, 728.2482, 730.2519, 732.2390, 733.2623, 739.3115, 742.4642, 743.4729, 747.4419, 752.3972, 754.3827, 756.3716, 758.3382, 760.3329, 764.3364, 766.3494, 767.4740, 768.3865, 770.3671, 772.4178, 779.4436, 784.3415, 787.2366, 788.4225, 790.4196, 795.4260, 799.2464, 802.4372, 805.4478, 808.4353, 811.4178, 814.4170, 819.4304, 821.4247, 822.4321, 829.4457, 837.4396, 840.4623, 842.5109, 854.4525, 856.5045, 858.5442, 860.4092, 863.4233, 863.9185, 869.4846, 870.5100, 872.4994, 880.4412, 904.4613, 906.4929, 908.4577, 913.5685, 919.5024, 925.5089, 927.4999, 928.5031, 940.4773, 942.4820, 950.4946, 957.5654, 960.4840, 966.4929, 969.4786, 972.5046, 974.5551, 977.5352, 978.5240, 981.4474, 989.2700, 991.5198, 993.5112, 1001.5782, 1007.5089,
     1009.5097, 1013.4454, 1015.5150, 1016.5522, 1018.5189, 1021.5313, 1024.5028, 1025.5192, 1029.5330, 1032.5870, 1033.5739, 1035.5203, 1045.5564, 1046.5759, 1051.5074, 1056.5415, 1057.6005, 1064.5358, 1071.5361, 1073.5377, 1079.5398, 1083.4637, 1086.4774, 1094.5596, 1096.5302, 1106.5431, 1110.5461, 1111.5398, 1111.5400, 1115.5790, 1118.5620, 1120.5724, 1123.5819, 1128.5537, 1132.5682, 1134.5841,
     1135.5942, 1143.5844, 1145.6155, 1149.5597, 1153.5929, 1158.6288, 1163.5771, 1173.6008, 1175.5867, 1177.6178, 1178.6053, 1179.5962, 1181.6432, 1192.5721, 1203.5826, 1211.5984, 1215.6246, 1216.6786, 1221.5699, 1222.5789, 1227.6271, 1228.6411, 1229.6412, 1231.6102,
     1233.6571, 1237.6270, 1238.5917, 1244.6069, 1248.5958, 1250.6042, 1255.5922, 1258.6344, 1268.6414, 1271.6490, 1275.6388, 1276.5977, 1276.6000, 1285.5864, 1294.6315, 1299.6810, 1300.6566, 1309.6340, 1320.6268, 1328.6292, 1333.7025, 1336.6038, 1338.6589, 1341.6488,
     1343.6613, 1345.6910, 1349.6838, 1350.6704, 1352.6350, 1355.6870, 1357.7130, 1358.6704, 1369.7067, 1371.7366, 1374.6705, 1377.6100,
     1377.6146, 1384.7109, 1386.7134, 1390.6848, 1393.7169, 1399.6119, 1400.6588, 1406.7207, 1410.6736, 1411.6647, 1416.6047, 1418.6714, 1421.6632, 1425.7395, 1426.6846, 1427.7076, 1430.7102, 1432.6718, 1434.6552, 1438.6991, 1439.7164, 1443.7589, 1444.7375, 1445.7306,
     1454.6836, 1461.7990, 1472.7026, 1475.7224, 1485.6906, 1489.7172, 1490.7058, 1493.7157, 1510.7383, 1515.7393, 1523.6987, 1524.7383, 1527.7585, 1529.7466, 1530.6902, 1531.6953, 1537.7804, 1538.7736, 1539.7621, 1541.7805, 1542.8290, 1549.6758, 1553.7277, 1555.7928,
     1556.7874, 1560.7551, 1563.7314, 1568.7372, 1570.8015, 1572.8151, 1576.7402, 1577.7395, 1578.7518, 1581.8373, 1591.7852, 1600.8068, 1603.8092, 1606.8130, 1608.7599, 1613.7793, 1615.8575, 1615.8600, 1624.7632, 1633.7913, 1634.7969, 1635.7941, 1639.8157, 1643.8085,
      1646.8591, 1647.8268, 1651.8206, 1653.8284, 1677.8074, 1681.8087, 1688.8287, 1690.8313, 1694.7357, 1697.8672, 1703.8214, 1706.8364,
     1707.8435, 1708.3533, 1709.3307, 1710.8229, 1715.8053, 1719.8075, 1721.8296, 1723.8743, 1724.8828, 1725.8090, 1730.8199, 1748.7931, 1757.8975, 1763.7841, 1768.8075, 1771.9686, 1774.9059, 1777.8727, 1779.8081, 1786.8824, 1787.8207, 1790.8423, 1796.8109, 1797.8339,
     1800.8578, 1815.9008, 1819.8838, 1821.8926, 1822.9185, 1826.8450, 1829.8655, 1833.8975, 1836.9054, 1843.8765, 1844.8785, 1851.9031, 1859.8494, 1862.9265, 1863.9319, 1866.8857, 1868.8972, 1879.9445, 1880.9215, 1887.9023, 1888.8057, 1890.8025, 1896.8954, 1901.0060,
     1906.8872, 1908.8663, 1913.8895, 1916.9475, 1924.9314, 1925.9336, 1928.0060, 1931.9956, 1932.9833, 1968.8563, 1984.9392, 2008.0485, 2008.9869, 2009.9747, 2012.9506, 2015.9661, 2020.9644, 2030.0151, 2030.4648, 2046.9839, 2047.5186, 2047.9097, 2051.9133, 2059.0122,
     2064.9746, 2070.9209, 2077.0454, 2082.9409, 2085.9888, 2090.9844, 2097.9778, 2103.1526, 2108.9897, 2118.8926, 2140.0432, 2142.0310,
     2142.9895, 2152.0510, 2155.0667, 2159.0752, 2160.0703, 2161.0813, 2166.0911, 2167.0676, 2174.0425, 2178.0034, 2181.0369, 2184.0767, 2189.9133, 2194.9761, 2199.0986, 2203.0464, 2205.9102, 2208.9729, 2211.1077, 2213.1116, 2214.1145, 2218.1018, 2221.1035, 2223.2205,
     2225.1592, 2229.1064, 2233.1023, 2245.0991, 2269.1128, 2273.0393, 2277.0576, 2279.1094, 2280.1204, 2283.1279, 2285.1169, 2292.1465,
     2296.1479, 2312.0664, 2323.1892, 2326.0947, 2334.1531, 2335.1282, 2337.1343, 2369.2256, 2372.2229, 2383.9978, 2385.2129, 2392.1528,
     2400.1094, 2401.1360, 2409.1914, 2411.1907, 2414.1833, 2429.1475, 2436.1699, 2437.1758, 2440.2007, 2447.2368, 2477.1301, 2495.0542,
     2498.0898, 2510.2229, 2522.1980, 2524.1689, 2527.2310, 2535.2598, 2541.2075, 2543.1907, 2544.1514, 2553.1934, 2557.2300, 2560.1125, 2569.2915, 2572.0935, 2612.1936, 2686.3572, 2963.6167, 3056.4641, 3058.5842, 3180.5432, 3313.5032, 3330.6311, 3347.6077, 3511.9668,
     3761.1558
                        Mass: 118628 Score: 19
                                                                                                Expect: 3e+002 Matches: 34
Uncharacterized protein OS=Bos taurus PE=4 SV=1

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss
        Ions
        Peptide

        747.4419
        746.4346
        746.4174
        23.1
        23.1
        236
        1
        ---
        K.IKTEEK.S
```

```
1815.9008 1814.8935 1814.8911 1.34 880 - 893 2 --- K.EEDKLWEQQAKQQR.Q
1822.9185 1821.9112 1821.8679 23.8 239 - 252 2 --- K.CEKELAEFRNELER.A
1887.9023 1886.8950 1886.9342 -20.77 417 - 432 1 --- R.AHCLALTKQNQMLSEK.V + Oxidation (M)
1984.9392 1993.9319 1983.9328 5.63 973 - 988 1 --- K.YMKILQQNQDQDTTDK.C + Oxidation (M)
2008.0485 2007.0412 2007.0385 1.38 248 - 264 2 --- R.NELERAYQAKSETLISR.E
2108.9897 2107.9824 2108.0320 -23.53 757 - 776 2 --- R.SPVAAPCPDRKSQPSPAESK.C
2152.0510 2151.0437 2151.0954 -24.01 712 - 732 2 --- K.SVVSEVPSSMASTSRKSAVSR.W
2184.0767 2183.0694 2183.1044 -16.04 208 - 224 2 --- K.SVVSEVPSSMASTSRKSAVSR.W
2184.0767 2183.0694 2333.1070 16.7 904 - 921 2 --- R.QETLQREWGELEMLDRER.R + Oxidation (M)
2334.1531 2333.1458 2333.1070 16.7 904 - 921 2 --- R.QETLQREWGELEMLDRER.R + Oxidation (M)
2372.2229 2371.2156 2371.2239 -3.49 405 - 424 2 --- R.SEVARPCELEMESVRAHCLALTK.Q + Oxidation (M)
2409.1914 2408.1841 2408.2084 -10.07 491 - 511 2 --- K.AENAIASEHKEFETHKQALQK.Q
2498.0898 2497.0825 2497.1406 -23.26 940 - 960 2 --- K.QEFTSGNCKNEEMSVQEMKDR.S
2544.1514 2543.1441 2543.1697 -10.06 155 - 176 1 --- K.ESRNMETQTSSTFPIEDSLVEK.L + Oxidation (M)
No match to: 724.2539, 725.2472, 728.2482, 730.2519, 732.2390, 733.2632, 739.3115, 742.4642, 743.4729, 74
                    No match to: 724.2539, 725.2472, 728.2482, 730.2519, 732.2390, 733.2623, 739.3115, 742.4642, 743.4729, 745.4483, 752.3972, 754.3827, 756.3716, 758.3382, 760.3329, 764.3364, 766.3494, 767.4740, 768.3865, 770.3671, 772.4178, 779.4436, 784.3415, 787.2366, 788.4225, 790.4196, 795.4260, 799.2464, 808.4353, 811.4178, 814.4170, 821.4247, 822.4321, 829.4457, 837.4396, 840.4623, 842.5109,
                    785.4225, 790.4196, 795.4260, 795.2464, 806.4333, 811.4178, 814.4170, 821.4247, 822.4321, 829.4457, 837.4396, 840.4623, 842.5109, 854.4525, 856.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.5045, 858.50
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                     1352.6350, 1357.7130, 1358.6704, 1369.7067, 1371.7366, 1374.6705, 1377.6100, 1377.6146, 1384.7109, 1386.7134, 1390.6848, 1393.7169,
                     1399.6119, 1406.7207, 1410.6736, 1411.6647, 1416.6047, 1418.6714, 1421.6632, 1425.7395, 1427.7076, 1430.7102, 1432.6718, 1434.6552,
                     1438.6991, 1439.7164, 1443.7589, 1444.7375, 1445.7306, 1454.6836, 1461.7990, 1472.7026, 1475.7224, 1489.7172, 1490.7058, 1493.7157, 1510.7383, 1515.7393, 1524.7383, 1527.7585, 1529.7466, 1530.6902, 1531.6953, 1537.7804, 1538.7736, 1541.7805, 1542.8290, 1549.6758,
                     1553.7277, 1555.7928, 1556.7874, 1560.7551, 1563.7314, 1568.7372, 1572.8151, 1576.7402, 1577.7395, 1581.8373, 1591.7852, 1600.8068, 1603.8092, 1604.8136, 1606.8130, 1608.7599, 1613.7793, 1615.8575, 1615.8600, 1624.7632, 1628.7653, 1633.7913, 1634.7969, 1635.7944,
                     1639.8157, 1643.8085, 1646.8591, 1647.8268, 1677.8074, 1681.8087, 1688.8287, 1690.8313, 1694.7357, 1697.8672, 1703.8214, 1706.8364, 1707.8435, 1708.3533, 1709.3307, 1710.8229, 1715.8053, 1719.8075, 1723.8743, 1724.8828, 1725.8090, 1748.7931, 1757.8975, 1763.7841, 1768.8075, 1771.9686, 1774.9059, 1777.8727, 1779.8081, 1786.8824, 1787.8207, 1790.8423, 1793.9556, 1796.8109, 1797.8339, 1800.8578,
                    1819.8838, 1821.8926, 1826.8450, 1829.8655, 1833.8975, 1836.9054, 1843.8765, 1844.8785, 1851.9031, 1859.8494, 1862.9265, 1836.3931, 1859.8857, 1868.8972, 1879.9445, 1880.9215, 1888.8057, 1890.8025, 1896.8854, 1901.0060, 1906.8872, 1908.8663, 1913.8895, 1916.9475, 1924.9314, 1925.9336, 1928.0060, 1931.9956, 1932.9833, 1968.8563, 2008.9869, 2009.9747, 2012.9506, 2015.9661, 2020.9644, 2030.0151, 2030.4648, 2046.9839, 2047.5186, 2047.9097, 2051.9133, 2059.0122, 2064.9746, 2070.9209, 2077.0454, 2082.9409, 2085.9888, 2090.9844, 2097.9778, 2103.1526, 2118.8926, 2140.0432, 2142.0310, 2142.9895, 2155.0667, 2159.0752, 2160.0703, 2161.0813, 2166.0911, 2167.0676,
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                     2283.1279, 2285.1169, 2292.1465, 2296.1479, 2312.0664, 2323.1892, 2326.0947, 2335.1282, 2337.1343, 2369.2256, 2383.9978, 2385.2129,
                    2392.1528, 2400.1094, 2401.1360, 2411.1907, 2414.1833, 2429.1475, 2436.1699, 2437.1758, 2440.2007, 2447.2368, 2477.1301, 2495.0542, 2510.2229, 2522.1980, 2524.1689, 2527.2310, 2535.2598, 2541.2075, 2543.1907, 2553.1934, 2557.2300, 2560.1125, 2569.2915, 2572.0935,
                    2612.1936, 2686.3572, 2788.3362, 2963.6167, 3056.4641, 3058.5842, 3180.5432, 3313.5032, 3330.6311, 3347.6077, 3511.9668, 3761.1558
32. E1BP<u>00</u> Mass: 59905 Score: 19
                                                                                                                                                Expect: 3e+002 Matches: 22
                     PC4 and SFRS1-interacting protein OS=Bos taurus GN=PSIP1 PE=4 SV=2

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss
        Ions
        Peptide

        819.4304
        818.4231
        818.4385
        -18.86
        518
        - 524
        0
        ---
        R.ETEIST

        863.4233
        862.4161
        862.4032
        14.9
        128
        - 135
        0
        ---
        K.ASNEDO

                                                                                                                                                                                                                                  R.ETEISLK.D
                819.4304 818.4231 818.4385 -18.86 518 - 524 0 --- R.ETELSK.D
863.4233 862.4161 862.4032 14.9 128 - 135 0 --- K.ASNEDVTK.A
913.5685 912.5613 912.5392 24.1 463 - 470 2 --- K.GPNKKLEK.E
928.5031 927.4958 927.5138 -19.39 181 - 189 0 --- R.GRPAATEVK.I
981.4474 980.4401 980.4345 5.70 344 - 351 1 --- K.RETSMDSR.L
1029.5330 1028.5257 1028.5264 -0.66 293 - 300 1 --- R.NYRLDKQGK.N
1143.5844 1142.5771 1142.5693 6.82 290 - 299 1 --- K.GGRNFQTAHR.R
1222.5789 1221.5716 1221.5772 -4.54 345 - 354 1 --- R.ETSMDSRLQR.I
1238.5917 1237.5844 1237.5721 9.97 345 - 354 1 --- R.ETSMDSRLQR.I
1258.6344 1257.6271 1257.6077 15.5 15 - 24 1 --- K.MKGYPHWPAR.V + Oxidation (M)
1258.6344 1267.6341 1267.6269 5.72 305 - 315 2 --- K.GGRNFQTAHR.R
1299.6810 1298.6737 1298.6704 2.53 290 - 300 2 --- K.GGRNFQTAHR.R
1406.7207 1405.7134 1405.7089 3.21 229 - 241 0 --- K.GGRNFQTAHR.R
1421.6632 1420.6559 1420.6318 17.0 101 - 113 0 --- K.GSRNFQTAHR.N
1786.8824 1785.8751 1785.9005 -14.19 408 - 422 1 --- K.GGRNFQTAHR.N
1786.8824 1785.8751 1785.9005 -14.19 408 - 422 1 --- K.GGRNFQTMEK.Y
1786.8824 1785.8751 1785.9005 -14.19 408 - 422 1 --- K.GGRNFQTMEK.Y
1786.8824 1785.8751 1785.9005 -14.19 408 - 422 1 --- K.GGRNFQTMEK.Y
1786.8824 1785.8751 1785.9005 -14.19 408 - 422 1 --- K.GGRNFQTMEK.Y
1786.8824 1785.8751 1785.9005 -14.19 408 - 422 1 --- K.GGRNFQTMEK.Y
1786.8824 1785.8751 1785.9005 -14.19 408 - 422 1 --- K.GGRNFQTMEK.Y
1786.8824 1785.8751 1785.9005 -14.19 408 - 422 1 --- K.GGRNFQTMEK.Y
1786.8824 1785.8751 1785.9005 -14.19 408 - 422 1 --- K.GGRNFQTMEK.Y
1786.8824 1785.8751 1785.9005 -14.19 408 - 422 1 --- K.GGRNFQTMEK.Y
1786.8824 1785.8751 1785.9005 -14.19 408 - 422 1 --- K.GGRNFQTMEKSTMLYNK.F + Oxidation (M)
1786.8824 1785.8751 1785.9005 -14.19 408 - 422 1 --- K.GGRNFQTMEKSTMLYNK.F + Oxidation (M)
1786.8824 1785.8751 1785.9005 -14.19 408 - 422 1 --- K.GGRNFQTMEKSTMLYNK.F + Oxidation (M)
1786.8824 1786.8751 1785.9005 -14.19 408 - 422 1 --- K.GGRNFQTMEKSTMLYNK.F + Oxidation (M)
1786.8824 1786.8751 1785.9005 -14.19 408 - 422 1 --- K.GGRNFQTMEKSTMLYNK.F + Oxidatio
                                                                                                                                                                                                                                 K.ASNEDVTK.A
                                                                                               862.4032 14.9
                    No match to: 724.2539, 725.2472, 728.2482, 730.2519, 732.2390, 733.2623, 739.3115, 742.4642, 743.4729, 745.4483, 747.4419, 752.3972, 754.3827, 756.3716, 758.3382, 760.3329, 764.3364, 766.3494, 767.4740, 768.3865, 770.3671, 772.4178, 779.4436, 784.3415, 787.2366, 788.4225, 790.4196, 795.4260, 799.2464, 802.4372, 805.4478, 808.4353, 811.4178, 814.4170, 821.4247, 822.4321, 829.4457,
                    837.4396, 840.4623, 842.5109, 854.4525, 856.5045, 858.5442, 860.4092, 863.9185, 869.4846, 870.5100, 872.4994, 880.4412, 904.4613, 906.4929, 908.4577, 919.5024, 925.5089, 927.4999, 940.4773, 942.4820, 950.4946, 957.5654, 960.4840, 966.4929, 969.4786, 972.5046, 974.5551, 977.5352, 978.5240, 989.2700, 991.5198, 993.5112, 1001.5782, 1007.5089, 1009.5097, 1013.4454, 1015.5150, 1016.5522, 1018.5189, 1021.5313, 1024.5028, 1025.5192, 1032.5870, 1033.5739, 1035.5203, 1045.5564, 1046.5759, 1051.5074, 1056.5415, 1064.5358,
                     1071.5361, 1073.5377, 1079.5398, 1083.4637, 1086.4774, 1092.6000, 1092.6002, 1094.5596, 1096.5302, 1106.5431, 1110.5461, 1111.5398, 1111.5400, 1115.5790, 1118.5620, 1120.5724, 1123.5819, 1128.5537, 1132.5682, 1134.5841, 1135.5942, 1137.5565, 1145.6155, 1149.5597,
                      1153.5929, 1158.6288, 1163.5771, 1173.6008, 1175.5867, 1177.6178, 1178.6053, 1179.5962, 1181.6432, 1192.5721, 1199.6315,
                     1211.5984, 1215.6246, 1216.6786, 1221.5699, 1227.6271, 1228.6411, 1229.6412, 1231.6102, 1233.6571, 1237.6270, 1244.6069, 1248.5958, 1250.6042, 1255.5922, 1275.6388, 1276.5977, 1276.6000, 1285.5864, 1294.6315, 1300.6566, 1309.6340, 1320.6268, 1328.6292, 1333.7025,
                     1336.6038, 1338.6589, 1341.6488, 1343.6613, 1345.6910, 1349.6838, 1350.6704, 1352.6350, 1355.6870, 1357.7130, 1358.6704, 1369.7067, 1371.7366, 1374.6705, 1377.6100, 1377.6146, 1384.7109, 1386.7134, 1390.6848, 1393.7169, 1399.6119, 1400.6588, 1410.6736, 1411.6647,
                     1416.6047, 1418.6714, 1425.7395, 1426.6846, 1427.7076, 1430.7102, 1432.6718, 1434.6552, 1438.6991, 1439.7164, 1443.7589, 1444.7375, 1445.7306, 1454.6836, 1461.7990, 1472.7026, 1475.7224, 1485.6906, 1489.7172, 1490.7058, 1493.7157, 1510.7383, 1515.7393, 1523.6987,
                     1524.7383, 1527.7585, 1529.7466, 1530.6902, 1531.6953, 1537.7804, 1538.7736, 1541.7805, 1542.8290, 1549.6758, 1553.7277, 1555.7928,
                     1556.7874, 1560.7551, 1568.7372, 1570.8015, 1572.8151, 1576.7402, 1577.7395, 1578.7518, 1581.8373, 1591.7852, 1600.8068, 1603.8092, 1604.8136, 1606.8130, 1608.7599, 1613.7793, 1615.8575, 1615.8600, 1624.7632, 1628.7653, 1633.7913, 1634.7969, 1635.7941, 1639.8157,
                     1643.8085, 1646.8591, 1647.8268, 1651.8206, 1653.8284, 1677.8074, 1681.8087, 1688.8287, 1690.8313, 1694.7357, 1697.8672, 1703.8214, 1706.8364, 1707.8435, 1708.3533, 1709.3307, 1710.8229, 1715.8053, 1719.8075, 1721.8296, 1723.8743, 1724.8828, 1725.8090, 1730.8199,
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1748.7931, 1757.8975, 1763.7841, 1768.8075, 1771.9686, 1774.9059, 1777.8727, 1779.8081, 1787.8207, 1790.8423, 1793.9556, 1796.8109, 1797.8339, 1800.8578, 1815.9008, 1819.8838, 1821.8926, 1822.9185, 1826.8450, 1829.8655, 1833.8975, 1836.9054, 1843.8765, 1844.8785,
   1851.9031, 1859.8494, 1862.9265, 1863.9319, 1866.8857, 1868.8972, 1879.9445, 1880.9215, 1887.9023, 1888.8057, 1890.8025, 1896.8954,
   1901.0060, 1906.8872, 1908.8663, 1913.8895, 1924.9314, 1925.9336, 1928.0060, 1931.9956, 1932.9833, 1968.8563, 1984.9392, 2008.0485, 2008.9869, 2009.9747, 2012.9506, 2015.9661, 2020.9644, 2030.0151, 2030.4648, 2046.9839, 2047.5186, 2047.9097, 2051.9133, 2059.0122,
  2064.9746, 2070.9209, 2077.0454, 2082.9409, 2085.9888, 2090.9844, 2097.9778, 2103.1526, 2108.9897, 2118.8926, 2140.0432, 2142.0310, 2142.9895, 2152.0510, 2155.0667, 2159.0752, 2160.0703, 2161.0813, 2166.0911, 2167.0676, 2174.0425, 2178.0034, 2181.0369, 2184.0767,
   2189.9133, 2194.9761, 2199.0986, 2203.0464, 2205.9102, 2208.9729, 2211.1077, 2213.1116, 2214.1145, 2218.1018, 2221.1035, 2223.2205, 2225.1592, 2229.1064, 2233.1023, 2245.0991, 2269.1128, 2273.0393, 2277.0576, 2279.1094, 2280.1204, 2283.1279, 2285.1169, 2296.1479,
   2312.0664, 2323.1892, 2326.0947, 2334.1531, 2335.1282, 2337.1343, 2369.2256, 2372.2229, 2383.9978, 2385.2129, 2392.1528, 2400.1094,
  2401.1360, 2409.1914, 2411.1907, 2414.1833, 2429.1475, 2436.1699, 2437.1758, 2440.2007, 2447.2368, 2477.1301, 2495.0542, 2498.0898, 2510.2229, 2522.1980, 2524.1689, 2527.2310, 2535.2598, 2541.2075, 2543.1907, 2544.1514, 2553.1934, 2557.2300, 2560.1125, 2569.2915,
   2572.0935, 2612.1936, 2686.3572, 2788.3362, 2963.6167, 3056.4641, 3058.5842, 3180.5432, 3313.5032, 3347.6077, 3511.9668, 3761.1558
  A4FV84 Mass: 27623
                                                     Score: 19
                                                                                   Expect: 3e+002 Matches: 14
  mRNA turnover protein 4 homolog OS=Bos taurus GN=MRTO4 PE=2 SV=1

        Observed
        Mr(expt)
        Mr(calc)
        ppm
        Start
        End Miss Ions
        Peptide

        908.4577
        907.4504
        907.4619
        -12.70
        72 - 79 0 - 79 0 ---
        K.VMMVALGR.S + 2 Oxidation (M)

        940.4773
        939.4700
        939.4774
        -7.85
        87 - 94 0 ---
        K.DNLHQVSK.K

| Observed | Mr (expt) | Mr (calc) | open | Start | End Miss | Tons | Peptide | open | 4577 | open |
   1143.5844, 1145.6155, 1149.5597, 1153.5929, 1158.6288, 1163.5771, 1173.6008, 1175.5867, 1177.6178, 1178.6053, 1179.5962, 1181.6432, 1192.5721, 1199.6315, 1203.5826, 1211.5984, 1215.6246, 1216.6786, 1221.5699, 1222.5789, 1227.6271, 1228.6411, 1229.6412, 1231.6102,
    1233.6571, 1237.6270, 1238.5917, 1244.6069, 1248.5958, 1255.5922, 1258.6344, 1268.6414, 1271.6490, 1275.6388, 1276.5977, 1276.6000,
   1285.5864, 1294.6315, 1299.6810, 1300.6566, 1309.6340, 1320.6268, 1328.6292, 1333.7025, 1336.6038, 1338.6589, 1341.6488, 1343.6613, 1345.6910, 1349.6838, 1350.6704, 1352.6350, 1355.6870, 1357.7130, 1358.6704, 1369.7067, 1371.7366, 1374.6705, 1377.6100, 1377.6146,
   1384.7109, 1386.7134, 1390.6848, 1393.7169, 1399.6119, 1400.6588, 1406.7207, 1410.6736, 1416.6047, 1421.6632, 1425.7395, 1426.6846, 1427.7076, 1430.7102, 1432.6718, 1438.6991, 1439.7164, 1443.7589, 1444.7375, 1445.7306, 1454.6836, 1461.7990, 1472.7026, 1475.7224,
   1485.6906, 1489.7172, 1490.7058, 1493.7157, 1510.7383, 1515.7393, 1523.6987, 1527.7585, 1529.7466, 1530.6902, 1531.6953, 1537.7804, 1538.7736, 1539.7621, 1541.7805, 1542.8290, 1549.6758, 1553.7277, 1555.7928, 1560.7551, 1563.7314, 1568.7372, 1570.8015, 1572.8151,
    1576.7402, 1577.7395, 1578.7518, 1581.8373, 1591.7852, 1600.8068, 1603.8092, 1604.8136, 1606.8130, 1608.7599, 1613.7793, 1615.8575,
   1615.8600, 1624.7632, 1628.7653, 1633.7913, 1634.7969, 1635.7941, 1639.8157, 1643.8085, 1646.8591, 1647.8268, 1651.8206, 1653.8284, 1677.8074, 1681.8087, 1688.8287, 1690.8313, 1694.7357, 1697.8672, 1703.8214, 1706.8364, 1707.8435, 1708.3533, 1709.3307, 1710.8229,
   1715.8053, 1719.8075, 1721.8296, 1723.8743, 1724.8828, 1725.8090, 1730.8199, 1748.7931, 1757.8975, 1763.7841, 1768.8075, 1771.9686, 1774.9059, 1777.8727, 1779.8081, 1786.8824, 1787.8207, 1790.8423, 1793.9556, 1796.8109, 1797.8339, 1800.8578, 1815.9008, 1819.8838,
   1821.8926, 1822.9185, 1826.8450, 1829.8655, 1833.8975, 1836.9054, 1843.8765, 1844.8785, 1851.9031, 1859.8494, 1862.9265, 1863.9319, 1866.8857, 1868.8972, 1879.9445, 1880.9215, 1887.9023, 1888.8057, 1890.8025, 1896.8954, 1901.0060, 1906.8872, 1908.8663, 1913.8895,
    1916.9475, 1925.9336, 1928.0060, 1931.9956, 1932.9833, 1968.8563, 1984.9392, 2008.0485, 2008.9869, 2009.9747, 2012.9506, 2015.9661,
  2020.9644, 2030.0151, 2030.4648, 2046.9839, 2047.5186, 2047.9097, 2051.9133, 2059.0122, 2064.9746, 2070.9209, 2077.0454, 2082.9409, 2085.9888, 2090.9844, 2097.9778, 2103.1526, 2108.9897, 2118.8926, 2140.0432, 2142.0310, 2152.0510, 2155.0667, 2159.0752, 2160.0703,
   2161.0813, 2166.0911, 2167.0676, 2174.0425, 2178.0034, 2181.0369, 2184.0767, 2189.9133, 2194.9761, 2199.0986, 2203.0464, 2205.9102, 2208.9729, 2211.1077, 2213.1116, 2214.1145, 2218.1018, 2221.1035, 2223.2205, 2225.1592, 2229.1064, 2233.1023, 2245.0991, 2269.1128,
  2273.0393, 2277.0576, 2279.1094, 2280.1204, 2283.1279, 2285.1169, 2292.1465, 2296.1479, 2312.0664, 2323.1892, 2326.0947, 2334.1531, 2335.1282, 2337.1343, 2369.2256, 2372.2229, 2383.9978, 2385.2129, 2392.1528, 2400.1094, 2401.1360, 2409.1914, 2411.1907, 2414.1833,
   2429.1475, 2436.1699, 2437.1758, 2440.2007, 2447.2368, 2477.1301, 2495.0542, 2498.0898, 2510.2229, 2522.1980, 2524.1689, 2527.2310,
  2535.2598, 2541.2075, 2543.1907, 2544.1514, 2553.1934, 2557.2300, 2560.1125, 2569.2915, 2572.0935, 2612.1936, 2686.3572, 2963.6167, 3056.4641, 3058.5842, 3180.5432, 3313.5032, 3330.6311, 3347.6077, 3511.9668, 3761.1558
                                                     Score: 19
                                                                                 Expect: 3.1e+002 Matches: 5
   Uncharacterized protein OS=Bos taurus PE=4 SV=1
 829.4457, 837.4396, 840.4623, 842.5109, 854.4525, 856.5045, 858.5442, 860.4092, 863.4233, 863.9185, 869.4846, 870.5100, 872.4994, 880.4412, 904.4613, 906.4929, 908.4577, 913.5685, 919.5024, 925.5089, 927.4999, 928.5031, 940.4773, 942.4820, 950.4946, 957.5654, 960.4840, 966.4929, 969.4786, 972.5046, 974.5551, 977.5352, 978.5240, 981.4474, 989.2700, 991.5198, 993.5112, 1001.5782, 1007.5089,
   1009.5097, 1013.4454, 1015.5150, 1016.5522, 1018.5189, 1021.5313, 1024.5028, 1025.5192, 1029.5330, 1032.5870, 1033.5739, 1035.5203, 1045.5564, 1046.5759, 1051.5074, 1056.5415, 1057.6005, 1064.5358, 1071.5361, 1073.5377, 1079.5398, 1083.4637, 1086.4774, 1092.6000,
   1092.6002, 1094.5596, 1096.5302, 1106.5431, 1110.5461, 1111.5398, 1111.5400, 1115.5790, 1118.5620, 1120.5724, 1123.5819, 1128.5537, 1132.5682, 1134.5841, 1135.5942, 1137.5565, 1143.5844, 1145.6155, 1149.5597, 1153.5929, 1158.6288, 1163.5771, 1173.6008, 1175.5867,
   1177.6178, 1178.6053, 1179.5962, 1181.6432, 1192.5721, 1199.6315, 1203.5826, 1211.5984, 1215.6246, 1216.6786, 1221.5699, 1222.5789, 1227.6271, 1228.6411, 1229.6412, 1231.6102, 1233.6571, 1237.6270, 1238.5917, 1244.6069, 1248.5958, 1250.6042, 1255.5922, 1258.6344,
   1268.6414, 1271.6490, 1275.6388, 1276.5977, 1276.6000, 1285.5864, 1294.6315, 1299.6810, 1300.6566, 1309.6340, 1320.6268, 1328.6292, 1333.7025, 1336.6038, 1338.6589, 1341.6488, 1343.6613, 1345.6910, 1349.6838, 1350.6704, 1352.6350, 1355.6870, 1357.7130, 1358.6704,
   1369.7067, 1374.6705, 1377.6100, 1377.6146, 1384.7109, 1386.7134, 1390.6848, 1393.7169, 1399.6119, 1400.6588, 1406.7207, 1410.6736,
   1411.6647, 1416.6047, 1418.6714, 1421.6632, 1425.7395, 1426.6846, 1427.7076, 1430.7102, 1432.6718, 1434.6552, 1438.6991, 1439.7164, 1443.7589, 1444.7375, 1445.7306, 1454.6836, 1461.7990, 1472.7026, 1475.7224, 1485.6906, 1489.7172, 1490.7058, 1493.7157, 1510.7383,
   1515.7393, 1523.6987, 1524.7383, 1527.7585, 1529.7466, 1530.6992, 1531.6953, 1537.7804, 1538.7736, 1539.7621, 1541.7805, 1542.8290, 1549.6758, 1553.7277, 1555.7928, 1556.7874, 1560.7551, 1563.7314, 1568.7372, 1570.8015, 1572.8151, 1576.7402, 1577.7395, 1578.7518, 1581.8373, 1591.7852, 1600.8068, 1603.8092, 1604.8136, 1606.8130, 1608.7599, 1613.7793, 1615.8575, 1615.8600, 1624.7632, 1628.7653,
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1633.7913, 1634.7969, 1635.7941, 1639.8157, 1643.8085, 1646.8591, 1647.8268, 1651.8206, 1653.8284, 1677.8074, 1681.8087, 1688.8287, 1690.8313, 1694.7357, 1697.8672, 1703.8214, 1706.8364, 1707.8435, 1708.3533, 1709.3307, 1710.8229, 1715.8053, 1719.8075, 1721.8296,
  1723.8743, 1724.8828, 1725.8090, 1730.8199, 1748.7931, 1757.8975, 1763.7841, 1768.8075, 1771.9686, 1774.9059, 1777.8727,
  1786.8824, 1787.8207, 1790.8423, 1793.9556, 1796.8109, 1797.8339, 1800.8578, 1815.9008, 1819.8838, 1821.8926, 1822.9185, 1826.8450,
  1829.8655, 1833.8975, 1836.9054, 1843.8765, 1844.8785, 1851.9031, 1859.8494, 1862.9265, 1863.9319, 1866.8857, 1868.8972, 1879.9445,
 1880.9215, 1887.9023, 1888.8057, 1890.8025, 1896.8954, 1901.0060, 1908.8663, 1913.8895, 1916.9475, 1924.9314, 1925.9336, 1928.0060, 1931.9956, 1932.9833, 1968.8563, 2008.0485, 2008.9869, 2009.9747, 2012.9506, 2015.9661, 2020.9644, 2030.0151, 2030.4648, 2046.9839,
 2047.5186, 2047.9097, 2051.9133, 2059.0122, 2064.9746, 2070.9209, 2077.0454, 2082.9409, 2085.9888, 2090.9844, 2097.9778, 2103.1526, 2108.9897, 2118.8926, 2140.0432, 2142.0310, 2142.9895, 2152.0510, 2155.0667, 2159.0752, 2160.0703, 2161.0813, 2166.0911, 2167.0676,
 2174.0425, 2178.0034, 2181.0369, 2184.0767, 2189.9133, 2194.9761, 2199.0986, 2203.0464, 2205.9102, 2208.9729, 2211.1077, 2213.1116,
 2214.1145, 2218.1018, 2221.1035, 2223.2205, 2225.1592, 2233.1023, 2245.0991, 2269.1128, 2273.0393, 2277.0576, 2279.1094, 2280.1204, 2283.1279, 2285.1169, 2292.1465, 2296.1479, 2312.0664, 2323.1892, 2326.0947, 2334.1531, 2335.1282, 2337.1343, 2369.2256, 2372.2229,
 2383.9978, 2385.2129, 2392.1528, 2400.1094, 2401.1360, 2409.1914, 2411.1907, 2414.1833, 2429.1475, 2436.1699, 2437.1758, 2440.2007, 2447.2368, 2477.1301, 2495.0542, 2498.0898, 2510.2229, 2522.1980, 2524.1689, 2527.2310, 2535.2598, 2541.2075, 2543.1907, 2553.1934,
 2557.2300, 2560.1125, 2569.2915, 2572.0935, 2612.1936, 2686.3572, 2788.3362, 2963.6167, 3056.4641, 3058.5842, 3180.5432, 3313.5032,
 3330.6311, 3347.6077, 3511.9668, 3761.1558
                                                    Score: 19
                                                                                    Expect: 3.1e+002 Matches: 8
                    Mass: 15044
 NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 6 OS=Bos taurus GN=NDUFA6 PE=1 SV=2
  Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss Ions
        Peptide

        863.4233
        862.4161
        862.3967
        22.5
        24 - 30
        1 ---
        R.DMNEAKR.R

        927.4999
        926.4926
        926.4868
        6.21
        99 - 105
        1 ---
        K.ORTHUMR.F

        1035.5203
        1034.5130
        1034.4927
        19.7
        24 - 31
        2 ---
        R.DMNEAKRR.V + Oxidation (M)

        1177.6178
        1176.6105
        1176.6060
        3.86
        86 - 95
        1 ---
        K.GKMELEETIK.V

        1358.6704
        1357.6631
        1357.6779
        -10.86
        106 - 116
        0 ---
        R.FHETEAPRPK.D

        1606.8130
        1605.8057
        1605.8436
        -23.58
        86 - 98
        2 ---
        K.CKMELEETIK.V

        2283.1279
        2282.1206
        2282.1491
        -12.47
        99 - 116
        2 ---
        K.QRTHVMRFFHETEAPRPK.D + Oxidation (M)

        2337.1343
        2336.1270
        2336.1279
        2336.1270
        2336.1270
        233.043.230.243
        8 - 29
        1 ---
        R.QAAVAASTSVKPIFSRDMNEAK.R + Oxidation (M)

 No match to: 724.2539, 725.2472, 728.2482, 730.2519, 732.2390, 733.2623, 739.3115, 742.4642, 743.4729, 745.4483, 747.4419, 752.3972, 754.3827, 756.3716, 758.3382, 760.3329, 764.3364, 766.3494, 767.4740, 768.3865, 770.3671, 772.4178, 779.4436, 784.3415, 787.2366, 788.4225, 790.4196, 795.4260, 799.2464, 802.4372, 805.4478, 808.4353, 811.4178, 814.4170, 819.4304, 821.4247, 822.4321,
  829.4457, 837.4396, 840.4623, 842.5109, 854.4525, 856.5045, 858.5442, 860.4092, 863.9185, 869.4846, 870.5100, 872.4994, 880.4412,
 904.4613, 906.4929, 908.4577, 913.5685, 919.5024, 925.5089, 928.5031, 940.4773, 942.4820, 950.4946, 957.5654, 960.4840, 966.4929, 969.4786, 972.5046, 974.5551, 977.5352, 978.5240, 981.4474, 989.2700, 991.5198, 993.5112, 1001.5782, 1007.5089, 1009.5097, 1013.4454, 1015.5150, 1016.5522, 1018.5189, 1021.5313, 1024.5028, 1025.5192, 1029.5330, 1032.5870, 1033.5739, 1045.5564, 1046.5759, 1051.5074, 1056.5415, 1057.6005, 1064.5358, 1071.5361, 1073.5377, 1079.5398, 1083.4637, 1086.4774, 1092.6000, 1092.6002, 1094.5596,
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 1341.6488, 1343.6613, 1345.6910, 1349.6838, 1350.6704, 1352.6350, 1355.6870, 1357.7130, 1369.7067, 1371.7366, 1374.6705, 1377.6100, 1377.6146, 1384.7109, 1386.7134, 1390.6848, 1393.7169, 1399.6119, 1400.6588, 1406.7207, 1410.6736, 1411.6647, 1416.6047, 1418.6714,
 1421.6632, 1425.7395, 1426.6846, 1427.7076, 1430.7102, 1432.6718, 1434.6552, 1438.6991, 1439.7164, 1443.7589, 1444.7375, 1445.7306, 1454.6836, 1461.7990, 1472.7026, 1475.7224, 1485.6906, 1489.7172, 1490.7058, 1493.7157, 1510.7383, 1515.7393, 1523.6987, 1524.7383,
  1527.7585, 1529.7466, 1530.6902, 1531.6953, 1537.7804, 1538.7736, 1539.7621, 1541.7805, 1542.8290, 1549.6758, 1553.7277, 1555.7928,
 1556.7874, 1560.7551, 1563.7314, 1568.7372, 1570.8015, 1572.8151, 1576.7402, 1577.7395, 1578.7518, 1581.8373, 1591.7852, 1600.8068,
  1603.8092, 1604.8136, 1608.7599, 1613.7793, 1615.8575, 1615.8600, 1624.7632, 1628.7653, 1633.7913, 1634.7969, 1635.7941, 1639.8157,
 1643.8085, 1646.8591, 1647.8268, 1651.8206, 1653.8284, 1677.8074, 1681.8087, 1688.8287, 1690.8313, 1694.7357, 1697.8672, 1703.8214, 1706.8364, 1707.8435, 1708.3533, 1709.3307, 1710.8229, 1715.8053, 1719.8075, 1721.8296, 1723.8743, 1724.8828, 1725.8090, 1730.8199,
  1748.7931, 1757.8975, 1763.7841, 1768.8075, 1771.9686, 1774.9059, 1777.8727, 1779.8081, 1786.8824, 1787.8207, 1790.8423, 1793.9556,
 1796.8109, 1797.8339, 1800.8578, 1815.9008, 1819.8838, 1821.8926, 1822.9185, 1826.8450, 1829.8655, 1833.8975, 1836.9054, 1843.8765,
  1844.8785, 1851.9031, 1859.8494, 1862.9265, 1863.9319, 1866.8857, 1868.8972, 1879.9445, 1880.9215, 1887.9023, 1888.8057, 1890.8025,
 1896.8954, 1901.0060, 1906.8872, 1908.8663, 1913.8895, 1916.9475, 1924.9314, 1925.9336, 1928.0060, 1931.9956, 1932.9833, 1968.8563, 1984.9392, 2008.0485, 2008.9869, 2009.9747, 2012.9506, 2015.9661, 2020.9644, 2030.0151, 2030.4648, 2046.9839, 2047.5186, 2047.9097,
 2051.9133, 2059.0122, 2064.9746, 2070.9209, 2077.0454, 2082.9409, 2085.9888, 2090.9844, 2097.9778, 2103.1526, 2108.9897, 2118.8926, 2140.0432, 2142.0310, 2142.9895, 2152.0510, 2155.0667, 2159.0752, 2160.0703, 2161.0813, 2166.0911, 2167.0676, 2174.0425, 2178.0034,
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 2221.1035. 2223.2205. 2225.1592. 2229.1064. 2233.1023. 2245.0991. 2269.1128. 2273.0393. 2277.0576. 2279.1094. 2280.1204. 2285.1169.
 2292.1465, 2296.1479, 2312.0664, 2323.1892, 2326.0947, 2334.1531, 2335.1282, 2369.2256, 2372.2229, 2383.9978, 2385.2129, 2392.1528,
 2400.1094, 2401.1360, 2409.1914, 2411.1907, 2414.1833, 2429.1475, 2436.1699, 2437.1758, 2440.2007, 2447.2368, 2477.1301, 2495.0542, 2498.0898, 2510.2229, 2522.1980, 2524.1689, 2527.2310, 2535.2598, 2541.2075, 2543.1907, 2544.1514, 2553.1934, 2557.2300, 2560.1125,
 2569.2915, 2572.0935, 2612.1936, 2686.3572, 2788.3362, 2963.6167, 3056.4641, 3058.5842, 3180.5432, 3313.5032, 3330.6311, 3347.6077,
 3511 9668, 3761 1558
                     Mass: 14728 Score: 19
                                                                                Expect: 3.1e+002 Matches: 9
 Histone H2B OS=Bos taurus PE=3 SV=1
| No. 

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss
        Ions
        Peptide

        745.4483
        744.4410
        744.4494
        -11.21
        18 - 24
        1 ---
        K.AVTKA

 No match to: 724.2539, 725.2472, 728.2482, 730.2519, 732.2390, 733.2623, 739.3115, 742.4642, 743.4729, 747.4419, 752.3972, 754.3827, 756.3716, 758.3382, 760.3329, 764.3364, 766.3494, 767.4740, 768.3865, 770.3671, 772.4178, 779.4436, 784.3415, 787.2366, 788.4225, 790.4196, 795.4260, 799.2464, 802.4372, 805.4478, 808.4353, 811.4178, 814.4170, 819.4304, 821.4247, 822.4321, 829.4457,
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  2498.0898, 2510.2229, 2522.1980, 2524.1689, 2527.2310, 2535.2598, 2541.2075, 2543.1907, 2544.1514, 2553.1934, 2557.2300, 2560.1125, 2569.2915, 2572.0935, 2612.1936, 2686.3572, 2963.6167, 3056.4641, 3058.5842, 3180.5432, 3313.5032, 3330.6311, 3347.6077, 3511.9668,
                    Mass: 167004 Score: 19
                                                                                              Expect: 3.2e+002 Matches: 33
  Uncharacterized protein OS=Bos taurus GN=ATAD2B PE=4 SV=2

        ppm
        Start
        End Miss Ions
        Peptide

        13.2
        1135
        - 1140
        1
        ---
        K.CAFRV

   Observed Mr(expt) Mr(calc)
                             807.4280
                                                         807.4174
                                                                                                                                                             K.CAFRVR.R
   808 4353
 906.4929 905.4856 905.4865 -0.99 355 - 362 2 ---
1015.5150 1014.5077 1014.5247 -16.69 1113 - 1120 1 ---
                                                                                                                                                             K.SKSMARAR.N
                                                                                                                                                             R.VEEAFRHK.O
1015.5150 1014.5077 1014.5247 -16.69 1113 - 1120 1 ---
1173.6008 1172.5935 1172.5906 2.46 363 - 371 1 ---
1175.5867 1174.5794 1174.6016 -18.89 92 - 101 1 ---
1233.6571 1232.6498 1232.6322 14.3 1006 - 1016 0 ---
1237.6270 1236.6197 1236.6098 7.99 1109 - 1118 1 ---
1258.6344 1257.6271 1257.6313 -3.32 1419 - 1429 0 ---
1276.5977 1275.5904 1275.5844 4.76 113 - 123 0 ---
1276.6000 1275.5927 1275.5844 6.56 113 - 123 0 19
1299.6810 1298.6737 1298.6843 -8.18 1113 - 1122 2 ---
1300.6566 1299.6433 1299.6684 -14.65 313 - 322 1 ---
                                                                                                                                                             R.NRCLPMNLR.A
                                                                                                                                                             R.TLKOPDSVCK.D
                                                                                                                                                             K.EPMDLSTVITK.I
                                                                                                                                                             K.TETRVEEAFR.H
                                                                                                                                                             K.SNNLAVDOLER.L
                                                                                                                                                             R.EEWNISSGOAR.L
                                                                                                                                                             R.EEWNISSGOAR.L
                                                                                                                                                             R VEEAFRHKOR N
 1300.6566 1299.6493 1299.6684 -14.65 313 - 322 1 ---
1320.6268 1319.6195 1319.6139 4.23 458 - 469 1 ---
1349.6838 1348.6765 1348.6888 -9.07 633 - 643 1 ---
1445.7306 1444.7233 1444.7270 -2.55 58 - 73 1 ---
                                                                                                                                                             K.RENTLFDIHR.S
                                                                                                                                                             R.ALANECSQGDKK.V
                                                                                                                                                             R.RYPQIYASSHK.L

    1445.7306
    1444.7233
    1444.7270
    -2.55
    58 - 73
    1 ---

    1555.7928
    1554.7855
    1554.7903
    -3.05
    314 - 326
    1 ---

    1560.7551
    1559.7478
    1559.7501
    -1.47
    386 - 400
    0 ---

                                                                                                                                                             K.AGGSGSAGVALDEARK.A
                                                                                                                                                             R.ENTLFDIHRSPAR.R
 1550.7551 1559.7478 1559.7501 -1.47 386 - 400 0 ---
1707.8435 1706.8362 1706.8700 -19.79 1091 - 1107 0 ---
1721.8296 1720.8223 1720.8203 1.20 476 - 490 2 ---
1771.9686 1770.9613 1770.9186 24.1 384 - 400 1 ---
                                                                                                                                                             K.VGASLADVDPMNIDK.S + Oxidation (M)
                                                                                                                                                             R.GLSVTAEQINPHGTGAR.K
                                                                                                                                                             R.KGADCLSKWVGESER.Q
                                                                                                                                                             R.VKVGASLADVDPMNIDK.S
 1779.8081 1778.8008 1778.7927 4.55 152 - 167 1 ---
1793.9556 1792.9483 1792.9294 10.5 441 - 457 1 ---
                                                                                                                                                             K.GDGELSCINGDMEVRK.S
                                                                                                                                                             R.GCLFYGPPGTGKTLVAR.A
1793.9556 1792.9483 1792.9294 10.5 441 - 457 1 --- R.GCLFYGPPGTGKTLVAR.A 1819.8838 1818.8765 1818.8609 8.61 108 - 123 1 --- R.TTGQREWNISSGQAR.L 1863.9319 1862.9246 1862.9711 -24.95 1090 - 1107 1 --- K.RGLSVTAEQINPHGTGAR.K 1931.9956 1930.9883 1930.9530 18.3 955 - 969 2 --- K.IRMEDQEENTLREIR.L 1932.9833 1931.9760 1931.9629 6.81 593 - 609 1 --- R.DWNPKLSDAFLGELAEK.C 1266.0911 2165.0838 2165.1076 -11.00 74 - 94 2 --- K.AEADGSLSDSHVSPPAKRTLK.Q 2199.0986 2198.0913 2198.1412 -22.68 363 - 381 2 --- R.NRCLPMNLRAEDLASGILR.E 2214.1145 2213.1072 2213.1408 -15.19 365 - 383 2 --- R.CLPMNLRAEDLASGILRE.V 2323.1892 2322.1819 2322.2040 -9.51 1091 - 1112 2 --- R.GLSVTAEQINPHGTGARKTETT.V 2335.1282 2334.1209 2334.1121 3.78 948 - 966 2 --- R.QLSSEKIRMEDQEENTLR.E 2392.1528 2391.1455 2391.0900 23.2 1031 - 1051 1 --- K.DIDLICSNALEYNPDKDPGDK.I 3056.4641 3055.4568 3055.4419 4.88 593 - 619 2 --- R.DWNPKLSDAFLGELAEKCVGYCGG NO match to: 724.2539, 725.2472, 728.2482, 730.2519, 732.2390, 733.2623, 739.3115, 742.46
                                                                                                                                                             R.GLSVTAEQINPHGTGARKTETR.V
                                                                                                                                                             R.DWNPKLSDAFLGELAEKCVGYCGADIK.A
  No match to: 724.2539, 725.2472, 728.2482, 730.2519, 732.2390, 733.2623, 739.3115, 742.4642, 743.4729, 745.4483, 747.4419,
 No match to: 724.2539, 725.2472, 728.2482, 730.2519, 732.2390, 733.2623, 739.3115, 742.4642, 743.4729, 745.4483, 747.4419, 752.3972, 754.3827, 756.3716, 758.3382, 760.3329, 764.3364, 766.3494, 767.4740, 768.3865, 770.3671, 772.4178, 779.4436, 784.3415, 787.2366, 788.4225, 790.4196, 795.4260, 799.2464, 802.4372, 805.4478, 811.4178, 814.4170, 819.4304, 821.4247, 822.4321, 829.4457, 837.4396, 840.4623, 842.5109, 854.4525, 856.5045, 858.5442, 860.4092, 863.4233, 863.9185, 869.4846, 870.5100, 872.4994, 880.4412, 904.4613, 908.4577, 913.5685, 919.5024, 925.5089, 927.4999, 928.5031, 940.4773, 942.4820, 950.4946, 957.5654, 960.4840, 966.4929, 969.4786, 972.5046, 974.5551, 977.5352, 978.5240, 981.4474, 889.2700, 991.5198, 993.5112, 1001.5782, 1007.5089, 1009.5097, 1013.4454, 1016.5522, 1018.5189, 1021.5313, 1024.5028, 1025.5192, 1029.5330, 1032.5870, 1033.5739, 1035.5203, 1045.5564, 1046.5759, 1056.5415, 1057.6005, 1064.5358, 1071.5361, 1073.5377, 1079.5398, 1083.4637, 1086.4774, 1092.6000, 1092.6002, 1094.5596, 1086.5358, 1071.5361, 1073.5377, 1079.5398, 1083.4637, 1086.4774, 1092.6000, 1092.6002, 1094.5596, 1086.5358, 1071.5361, 1073.5377, 1079.5398, 1083.4637, 1086.4774, 1092.6000, 1092.6002, 1094.5596, 1086.5358, 1071.5361, 1073.5377, 1079.5398, 1083.4637, 1086.4774, 1092.6000, 1092.6002, 1094.5596, 1086.5358, 1071.5361, 1073.5377, 1079.5398, 1083.4637, 1086.4774, 1092.6000, 1092.6002, 1094.5596, 1086.5358, 1071.5361, 1073.5377, 1079.5398, 1083.4637, 1086.4774, 1092.6000, 1092.6002, 1094.5596, 1086.5358, 1071.5361, 1073.5377, 1079.5398, 1083.4637, 1086.4774, 1092.6000, 1092.6002, 1094.5596, 1086.5358, 1071.5361, 1073.5377, 1079.5398, 1083.4637, 1086.4774, 1092.6000, 1092.6002, 1094.5596, 1086.5358, 1071.5361, 1073.5377, 1079.5398, 1083.4637, 1086.4774, 1092.6000, 1092.6002, 1094.5596, 1086.5358, 1071.5361, 1073.5377, 1079.5398, 1083.4637, 1086.4774, 1092.6000, 1092.6002, 1094.5596, 1086.5358, 1071.5361, 1073.5377, 1079.5398, 1083.4637, 1086.4774, 1092.6000, 1092.6002, 1094.5596, 1086.5358, 1071.5361, 1078.5377, 1079
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  1238.5917, 1244.6069, 1248.5958, 1250.6042, 1255.5922, 1268.6414, 1271.6490, 1275.6388, 1285.5864, 1294.6315, 1309.6340, 1328.6292, 1333.7025, 1336.6038, 1338.6589, 1341.6488, 1343.6613, 1345.6910, 1350.6704, 1352.6350, 1355.6870, 1357.7130, 1358.6704, 1369.7067,
  1371.7366, 1374.6705, 1377.6100, 1377.6146, 1384.7109, 1386.7134, 1390.6848, 1393.7169, 1399.6119, 1400.6588, 1406.7207, 1410.6736, 1411.6647, 1416.6047, 1418.6714, 1421.6632, 1425.7395, 1426.6846, 1427.7076, 1430.7102, 1432.6718, 1434.6552, 1438.6991, 1439.7164,
   1443.7589, 1444.7375, 1454.6836, 1461.7990, 1472.7026, 1475.7224, 1485.6906, 1489.7172, 1490.7058, 1493.7157, 1510.7383, 1515.7393,
  1523.6987, 1524.7383, 1527.7585, 1529.7466, 1530.6902, 1531.6953, 1537.7804, 1538.7736, 1539.7621, 1541.7805, 1542.8290, 1549.6758, 1553.7277, 1556.7874, 1563.7314, 1568.7372, 1570.8015, 1572.8151, 1576.7402, 1577.7395, 1578.7518, 1581.8373, 1591.7852, 1600.8068,
  1603.8092, 1604.8136, 1606.8130, 1608.7599, 1613.7793, 1615.8575, 1615.8600, 1624.7632, 1628.7653, 1633.7913, 1634.7969, 1635.7941, 1639.8157, 1643.8085, 1646.8591, 1647.8268, 1651.8206, 1653.8284, 1677.8074, 1681.8087, 1688.8287, 1690.8313, 1694.7357, 1697.8672,
  1703.8214, 1706.8364, 1708.3533, 1709.3307, 1710.8229, 1715.8053, 1719.8075, 1723.8743, 1724.8828, 1725.8090, 1730.8199, 1748.7931, 1757.8975, 1763.7841, 1768.8075, 1774.9059, 1777.8727, 1786.8824, 1787.8207, 1790.8423, 1796.8109, 1797.8339, 1800.8578, 1815.9008,
   1821.8926, 1822.9185, 1826.8450, 1829.8655, 1833.8975, 1836.9054, 1843.8765, 1844.8785, 1851.9031, 1859.8494, 1862.9265, 1866.8857,
  1868.8972, 1879.9445, 1880.9215, 1887.9023, 1888.8057, 1890.8025, 1896.8954, 1901.0060, 1906.8872, 1908.8663, 1913.8895, 1916.9475, 1924.9314, 1925.9336, 1928.0060, 1968.8563, 1984.9392, 2008.0485, 2008.9869, 2009.9747, 2012.9506, 2015.9661, 2020.9644, 2030.0151,
  2030.4648, 2046.9839, 2047.5186, 2047.9097, 2051.9133, 2059.0122, 2064.9746, 2070.9209, 2077.0454, 2082.9409, 2085.9888, 2090.9844, 2097.9778, 2103.1526, 2108.9897, 2118.8926, 2140.0432, 2142.0310, 2142.9895, 2152.0510, 2155.0667, 2159.0752, 2160.0703, 2161.0813,
  2167.0676, 2174.0425, 2178.0034, 2181.0369, 2184.0767, 2189.9133, 2194.9761, 2203.0464, 2205.9102, 2208.9729, 2211.1077, 2213.1116, 2218.1018, 2221.1035, 2223.2205, 2225.1592, 2229.1064, 2233.1023, 2245.0991, 2269.1128, 2273.0393, 2277.0576, 2279.1094, 2280.1204,
  2283.1279, 2285.1169, 2292.1465, 2296.1479, 2312.0664, 2326.0947, 2334.1531, 2337.1343, 2369.2256, 2372.2229, 2383.9978, 2385.2129, 2400.1094, 2401.1360, 2409.1914, 2411.1907, 2414.1833, 2429.1475, 2436.1699, 2437.1758, 2440.2007, 2447.2368, 2477.1301, 2495.0542,
  2498.0898, 2510.2229, 2522.1980, 2524.1689, 2527.2310, 2535.2598, 2541.2075, 2543.1907, 2544.1514, 2553.1394, 2557.2300, 2560.1125, 2569.2915, 2572.0935, 2612.1936, 2686.3572, 2788.3362, 2963.6167, 3058.5842, 3180.5432, 3313.5032, 3330.6311, 3347.6077, 3511.9668,
  3761.1558
                         Mass: 96792
                                                              Score: 19
                                                                                                 Expect: 3.2e+002 Matches: 34
  F1N469
  Uncharacterized protein OS=Bos taurus GN=MAP7D3 PE=4 SV=2
                                                                                ppm Start End Miss Ions Peptide
-5.64 599 - 604 1 --- K.EERLQK.E
   Observed
                             Mr(expt) Mr(calc)
```

```
819.4304 818.4231 818.4358 -15.58 195 - 201 1 --- R.SSSLNRR.C
870.5100 869.5027 869.5235 -24.00 120 - 126 1 --- K.FKAVLHR.T
960.4840 959.4767 959.4784 -1.82 96 - 102 2 --- K.EKDEQRR.I
1001.5782 1000.5709 1000.5665 4.42 591 -598 2 --- R.LAREQKEK.E
1046.5759 1045.5686 1045.5628 5.54 809 - 817 1 --- R.SSTKRPTNR.A
1145.6155 1144.6082 1144.6088 -0.47 66 - 74 1 --- K.ETQLLEKER.K
1221.5699 1220.5626 1220.5455 14.0 109 - 117 1 --- K.RNEMLEEER.E + Oxidation (M)
1222.5789 1221.5716 1221.5772 -4.54 824 - 834 0 --- K.AETSSTMRPSR.S
1231.6102 1230.6029 1230.6204 -14.22 154 - 164 1 --- K.TVNKHSTSTEK.L
1238.5917 1237.5844 1237.5721 9.97 824 - 834 0 --- K.AETSSTMRPSR.S + Oxidation (M)
1276.5977 1275.5904 1275.5691 16.7 644 - 653 1 --- K.RESQEQEDQK.V
1276.6000 1275.5927 1275.5691 18.5 644 - 653 1 --- K.RESQEQEDQK.V
1299.6810 1298.6737 1298.6466 20.9 571 - 583 1 --- K.GTPGPKNAEEATK.I
1343.6613 1342.6540 1342.6703 -12.16 783 - 793 1 --- K.AFLNIDMKTER.Q
1350.6704 1349.6631 1349.6609 1.64 175 - 187 0 --- R.QMSSTGLQNSVAK.K
 1342.6540 1342.6540 1342.6703 -12.16 783 - 793 1 --- K.AFINTDMKTFR.Q
1350.6704 1349.6631 1349.6609 1.64 175 - 187 0 --- R.QMSSTGLQNSVAK.K
1384.7109 1383.7036 1383.6956 5.82 328 - 339 0 --- K.VSVETFLEVSMK.E + Oxidation (M)
1386.7134 1385.7061 1385.7238 -12.73 468 - 478 1 --- K.RIPPSQIPCVR.W
1426.6846 1425.6773 1425.7108 -23.48 605 - 615 2 --- K.RIPPSQIPCVR.W
1443.7589 1442.7516 1442.7841 -22.53 796 - 808 2 --- K.GVKDPLNQTKSTR.S
1524.7383 1523.7310 1523.7362 -3.39 821 - 834 1 --- K.TGKAETSSTMRPSR.S + Oxidation (M)
1527.7585 1526.7512 1526.7650 -9.02 76 - 87 2 --- K.SKLYYERQMEEK.Q + Oxidation (M)
1530.6902 1529.6829 1529.7209 -24.83 205 -217 0 --- R.LHSSTETEQIEEK.R
1530.6902 1529.6829 1529.7209 -24.83 205 - 217 0 --- R.LHSSTETQIEEK.R
1542.8290 1541.8217 1541.8347 -8.45 679 - 690 1 --- R.IMLQNLQERIER.K
1615.8575 1614.8502 1614.8188 19.5 783 - 795 2 --- K.AFLNTDMKTFRQK.G + Oxidation (M)
1615.8600 1614.8527 1614.8188 21.0 783 - 795 2 --- K.AFLNTDMKTFRQK.G + Oxidation (M)
1715.8053 1714.7980 1714.8382 -23.44 530 - 545 1 --- K.TVFAQNALGTMGMKSK.A + 2 Oxidation (M)
1719.8075 1718.8002 1718.7604 23.2 561 - 576 1 --- K.DMICEESGNKGTPGPK.N
1774.9059 1773.8986 1773.8857 7.30 544 - 560 1 --- K.SKAVSNTINNSEAPSQK.D
1797.8339 1796.8266 1796.8594 -18.25 139 - 153 1 --- K.SKAVSNTINNSEAPSQK.D
1822.9185 1821.9112 1821.9043 3.81 599 - 612 2 --- K.EEKLQKEMEQSFIR.K
2159.0752 2158.0679 2158.0212 21.7 449 - 467 2 --- K.DSPQKSEMDEQPSNPITKK.R
2203.0464 2202.0391 2202.0739 -15.78 356 - 375 1 --- K.EHPAVNVEALAEASMKEHPK.V + Oxidation (M)
2211.1077 2210.1004 2210.1457 -20.48 479 - 497 2 --- R.WSSSPTRWRPPSPISASR.Q
No match tc: 724.2539, 725.2472, 728.2482, 730.2519, 732.2390, 733.2623, 739.3115, 742.4642, 743.4729,
    No match to: 724.2539, 725.2472, 728.2482, 730.2519, 732.2390, 733.2623, 739.3115, 742.4642, 743.4729, 745.4483, 747.4419,
           2.3972, 754.3827, 756.3716, 758.3382, 760.3329, 764.3364, 766.3494, 767.4740, 768.3865, 770.3671, 772.4178, 779.4436, 784.3415,
   787.2366, 788.4225, 790.4196, 795.4260, 799.2464, 805.4478, 808.4353, 811.4178, 814.4170, 821.4247, 822.4321, 829.4457, 837.4396, 840.4623, 842.5109, 854.4525, 856.5045, 858.5442, 860.4092, 863.4233, 863.9185, 869.4846, 872.4994, 880.4412, 904.4613, 906.4929, 908.4577, 913.5685, 919.5024, 925.5089, 927.4999, 928.5031, 940.4773, 942.4820, 950.4946, 957.5654, 966.4929, 969.4786, 972.5046, 974.5551, 977.5352, 978.5240, 981.4474, 989.2700, 991.5198, 993.5112, 1007.5089, 1009.5097, 1013.4454, 1015.5150, 1016.5522, 1018.5189, 1021.5313, 1024.5028, 1025.5192, 1029.5330, 1032.5870, 1033.5739, 1035.5203, 1045.5564, 1051.5074, 1056.5415, 1057.6005, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 1066.5731, 10
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    1425.7395, 1427.7076, 1430.7102, 1432.6718, 1434.6552, 1438.6991, 1439.7164, 1444.7375, 1445.7306, 1454.6836, 1461.7990, 1472.7026, 1475.7224, 1485.6906, 1489.7172, 1490.7058, 1493.7157, 1510.7383, 1515.7393, 1523.6987, 1529.7466, 1531.6953, 1537.7804, 1538.7736,
    1539.7621, 1541.7805, 1549.6758, 1553.7277, 1555.7928, 1556.7874, 1560.7551, 1563.7314, 1568.7372, 1570.8015, 1572.8151, 1576.7402, 1577.7395, 1578.7518, 1581.8373, 1591.7852, 1600.8068, 1603.8092, 1604.8136, 1606.8130, 1608.7599, 1613.7793, 1624.7632, 1628.7653,
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     1725.8090, 1730.8199, 1748.7931, 1757.8975, 1763.7841, 1768.8075, 1771.9686, 1777.8727, 1779.8081, 1786.8824, 1787.8207, 1790.8423,
    1793.9556, 1796.8109, 1800.8578, 1815.9008, 1819.8838, 1821.8926, 1826.8450, 1829.8655, 1833.8975, 1836.9054, 1843.8765, 1844.8785, 1851.9031, 1859.8494, 1862.9265, 1863.9319, 1866.8857, 1868.8972, 1879.9445, 1880.9215, 1887.9023, 1888.8057, 1890.8025, 1896.8954,
    1901.0060, 1906.8872, 1908.8663, 1913.8895, 1916.9475, 1924.9314, 1925.9336, 1928.0060, 1931.9956, 1932.9833, 1968.8563, 1984.9399, 2008.0485, 2008.9869, 2009.9747, 2012.9506, 2015.9661, 2020.9644, 2030.0151, 2030.4648, 2046.9839, 2047.5186, 2047.9097, 2051.9133,
    2059.0122, 2064.9746, 2070.9209, 2077.0454, 2082.9409, 2085.9888, 2090.9844, 2097.9778, 2103.1526, 2108.9897, 2118.8926, 2140.0432, 2142.0310, 2142.9895, 2152.0510, 2155.0667, 2160.0703, 2161.0813, 2166.0911, 2167.0676, 2174.0425, 2178.0034, 2181.0369, 2184.0767, 2189.9133, 2194.9761, 2199.0986, 2205.9102, 2208.9729, 2213.1116, 2214.1145, 2218.1018, 2221.1035, 2223.2205, 2225.1592, 2229.1064,
   2233.1023, 2245.0991, 2269.1128, 2273.0393, 2277.0576, 2279.1094, 2280.1204, 2283.1279, 2285.1169, 2292.1465, 2296.1479, 2312.0664, 2323.1892, 2326.0947, 2334.1531, 2335.1282, 2337.1343, 2369.2256, 2372.2229, 2383.9978, 2385.2129, 2392.1528, 2400.1094, 2401.1360,
   2409.1914, 2411.1907, 2414.1833, 2429.1475, 2436.1699, 2437.1758, 2440.2007, 2447.2368, 2477.1301, 2495.0542, 2498.0898, 2510.2229, 2522.1980, 2524.1689, 2527.2310, 2535.2598, 2541.2075, 2543.1907, 2544.1514, 2553.1934, 2557.2300, 2560.1125, 2569.2915, 2572.0935,
    2612.1936, 2686.3572, 2788.3362, 2963.6167, 3056.4641, 3058.5842, 3180.5432, 3313.5032, 3330.6311, 3347.6077, 3511.9668, 3761.1558
   F1MIS2 Mass: 9764
                                                                                     Score: 19
                                                                                                                                  Expect: 3.3e+002 Matches: 7
    Uncharacterized protein OS=Bos taurus PE=3 SV=2
 Observed Mr (expt) Mr (calc) ppm Start End Miss Ions Peptide
993.5112 992.5039 992.4862 17.9 20 - 27 1 --- R.MTSAYHRK.C
1009.5097 1008.5024 1008.4811 21.2 20 - 27 1 --- R.MTSAYHRK.C + Oxidation (M)
1563.7314 1562.7241 1562.7221 1.30 28 - 40 1 --- R.MTSAYHRK.C + Oxidation (M)
1707.8435 1706.8362 1706.8120 14.2 27 - 40 2 --- R.KCMPAHYKEAELSK.G + Oxidation (M)
1896.8954 1895.8881 1895.8593 15.2 20 - 34 2 --- R.MTSAYHRKCMPAHYK.E + Oxidation (M)
1818.8926 2117.8853 2117.9081 -10.75 9 - 26 1 --- R.AGVEMADMYNNRMTSAYHR.K + Oxidation (M)
12572.0935 2571.0862 2571.1444 -22.61 41 - 62 1 --- R.GSVCLDPYASKYLDIHECMGK.K

No match to: 724.2539. 725.2472. 728.2482. 730.2519. 732.2390. 733.2623. 739.3115. 742.4642. 743.4729
   No match to: 724.2539, 725.2472, 728.2482, 730.2519, 732.2390, 733.2623, 739.3115, 742.4642, 743.4729, 745.4483, 747.4419, 752.3972, 754.3827, 756.3716, 758.3382, 760.3329, 764.3364, 766.3494, 767.4740, 768.3865, 770.3671, 772.4178, 779.4436, 784.3415, 787.2366, 788.4225, 790.4196, 795.4260, 799.2464, 802.4372, 805.4478, 808.4353, 811.4178, 814.4170, 819.4304, 821.4247, 822.4321,
   829.4457, 837.4396, 840.4623, 842.5109, 854.4525, 856.5045, 858.5442, 860.4092, 863.4233, 863.9185, 869.4846, 870.5100, 872.4394, 880.4412, 904.4613, 906.4929, 908.4577, 913.5685, 919.5024, 925.5089, 927.4999, 928.5031, 940.4773, 942.4820, 950.4946, 957.5654, 960.4840, 966.4929, 969.4786, 972.5046, 974.5551, 977.5352, 978.5240, 981.4474, 989.2700, 991.5198, 1001.5782, 1007.5089, 1013.4454, 1015.5150, 1016.5522, 1018.5189, 1021.5313, 1024.5028, 1025.5192, 1029.5330, 1032.5870, 1033.5739, 1035.5203, 1045.5564, 1046.5759, 1051.5074, 1056.5415, 1057.6005, 1064.5358, 1071.5361, 1073.5377, 1079.5398, 1083.4637, 1086.4774, 1092.6000, 1092.6002, 1094.5022, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 1094.5302, 109
    1094.5596, 1096.5302, 1106.5431, 1110.5461, 1111.5398, 1111.5400, 1115.5790, 1118.5620, 1120.5724, 1123.5819, 1128.5537, 1132.5682,
     1134.5841, 1135.5942, 1137.5565, 1143.5844, 1145.6155, 1149.5597, 1153.5929, 1158.6288, 1163.5771, 1173.6008, 1175.5867, 1177.6178,
    1178.6053, 1179.5962, 1181.6432, 1192.5721, 1199.6315, 1203.5826, 1211.5984, 1215.6246, 1216.6786, 1221.5699, 1222.5789, 1227.6271, 1228.6411, 1229.6412, 1231.6102, 1233.6571, 1237.6270, 1238.5917, 1244.6069, 1248.5958, 1250.6042, 1255.5922, 1258.6344, 1268.6414,
    1271.6490, 1275.6388, 1276.5977, 1276.6000, 1285.5864, 1294.6315, 1299.6810, 1300.6566, 1309.6340, 1320.6268, 1328.6292, 1333.7025, 1336.6038, 1338.6589, 1341.6488, 1343.6613, 1345.6910, 1349.6838, 1350.6704, 1352.6350, 1355.6870, 1357.7130, 1358.6704, 1369.7067,
    1371.7366, 1374.6705, 1377.6100, 1377.6146, 1384.7109, 1386.7134, 1390.6848, 1393.7169, 1399.6119, 1400.6588, 1406.7207, 1410.6736,
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1411.6647, 1416.6047, 1418.6714, 1421.6632, 1425.7395, 1426.6846, 1427.7076, 1430.7102, 1432.6718, 1434.6552, 1438.6991, 1439.7164, 1443.7589, 1444.7375, 1445.7306, 1454.6836, 1461.7990, 1472.7026, 1475.7224, 1485.6906, 1489.7172, 1490.7058, 1493.7157, 1510.7383,
   1515.7393, 1523.6987, 1524.7383, 1527.7585, 1529.7466, 1530.6902, 1531.6953, 1537.7804, 1538.7736, 1539.7621, 1541.7805, 1542.8290, 1549.6758, 1553.7277, 1555.7928, 1556.7874, 1560.7551, 1568.7372, 1570.8015, 1572.8151, 1576.7402, 1577.7395, 1578.7518, 1581.8373,
   1591.7852, 1600.8068, 1603.8092, 1604.8136, 1606.8130, 1608.7599, 1613.7793, 1615.8575, 1615.8600, 1624.7632, 1628.7653, 1633.7913,
  1634.7969, 1635.7941, 1639.8157, 1643.8085, 1646.8591, 1647.8268, 1651.8206, 1653.8284, 1677.8074, 1681.8087, 1688.8287, 1690.8313, 1694.7357, 1697.8672, 1703.8214, 1706.8364, 1708.3533, 1709.3307, 1710.8229, 1715.8053, 1719.8075, 1721.8296, 1723.8743, 1724.8828,
   1725.8090, 1730.8199, 1748.7931, 1757.8975, 1763.7841, 1768.8075, 1771.9686, 1774.9059, 1777.8727, 1779.8081, 1786.8824, 1787.8207, 1790.8423, 1793.9556, 1796.8109, 1797.8339, 1800.8578, 1815.9008, 1819.8838, 1821.8926, 1822.9185, 1826.8450, 1829.8655, 1833.8975,
   1836.9054, 1843.8765, 1844.8785, 1851.9031, 1859.8494, 1862.9265, 1863.9319, 1866.8857, 1868.8972, 1879.9445, 1880.9215, 1887.9023
   1888.8057, 1890.8025, 1901.0060, 1906.8872, 1908.8663, 1913.8895, 1916.9475, 1924.9314, 1925.9336, 1928.0060, 1931.9956, 1932.9833, 1968.8563, 1984.9392, 2008.0485, 2008.9869, 2009.9747, 2012.9506, 2015.9661, 2020.9644, 2030.0151, 2030.4648, 2046.9839, 2047.5186,
  2047.9097, 2051.9133, 2059.0122, 2064.9746, 2070.9209, 2077.0454, 2082.9409, 2085.9888, 2090.9844, 2097.9778, 2103.1526, 2108.9897, 2140.0432, 2142.0310, 2142.9895, 2152.0510, 2155.0667, 2159.0752, 2160.0703, 2161.0813, 2166.0911, 2167.0676, 2174.0425, 2178.0034,
  2181.0369, 2184.0767, 2189.9133, 2194.9761, 2199.0986, 2203.0464, 2205.9102, 2208.9729, 2211.1077, 2213.1116, 2214.1145, 2218.1018, 2221.1035, 2223.2205, 2225.1592, 2229.1064, 2233.1023, 2245.0991, 2269.1128, 2273.0393, 2277.0576, 2279.1094, 2280.1204, 2283.1279,
  2285.1169, 2292.1465, 2296.1479, 2312.0664, 2323.1892, 2326.0947, 2334.1531, 2335.1282, 2337.1343, 2369.2256, 2372.2229, 2383.9978, 2385.2129, 2392.1528, 2400.1094, 2401.1360, 2409.1914, 2411.1907, 2414.1833, 2429.1475, 2436.1699, 2437.1758, 2440.2007, 2447.2368, 2477.1301, 2495.0542, 2498.0898, 2510.2229, 2522.1980, 2524.1689, 2527.2310, 2535.2598, 2541.2075, 2543.1907, 2544.1514, 2553.1934,
   2557.2300, 2560.1125, 2569.2915, 2612.1936, 2686.3572, 2788.3362, 2963.6167, 3056.4641, 3058.5842, 3180.5432, 3313.5032, 3330.6311,
   3347.6077, 3511.9668, 3761.1558
                                                    Score: 19
                                                                                 Expect: 3.3e+002 Matches: 22
   Outer dense fiber protein 2-like OS=Bos taurus GN=ODF2L PE=4 SV=2
   Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide
                                                                        -4.40 160 - 165 1 ---
                                                  766.4701
811.4178 810.4405 810.3945 19.7 183 - 189 0 --- K.YEAVAMK.E

904.4613 903.4540 903.4661 -13.39 350 - 357 0 --- K.YEAVAMK.E

925.5089 924.5016 924.5069 -5.74 534 - 540 0 --- K.NYLQFLK.T

960.4840 959.4767 959.4923 -16.31 154 - 161 1 --- K.EAENEKLK.E

1032.5870 1031.5797 1031.5611 18.1 350 - 358 1 --- K.AELSSELR.K

1114.5717 1114.5618 8.89 453 - 462 0 --- R.QLEAALEEGR.Q

1181.6432 1180.6359 1180.6274 7.24 180 - 189 2 --- K.KNKYEAVAMK.E

1294.6315 1293.6242 1293.6234 0.62 465 - 475 1 --- K.VSEEIEKMSSR.E

1352.6350 1351.6277 1351.6255 1.61 73 - 83 0 --- K.DTIEEISFENR.G

1371.7366 1370.7293 1370.7153 10.2 453 - 464 1 --- R.QLEAALEEGRQK.V

1377.6100 1376.6027 1376.6354 -23.73 410 - 420 1 --- K.QKLEQMDAENR.E + Oxidation (M)

1377.6146 1376.6073 1376.6354 -20.39 410 - 420 1 --- K.QKLEQMDAENR.E + Oxidation (M)

1721.8296 1720.8223 1720.7872 20.4 494 - 507 1 --- K.NEEURICKMSK.A

1730.8199 1729.8126 1729.8127 -0.04 276 - 289 1 --- K.MEEHRISQELIR.K

1906.8872 1905.8799 1905.8891 -4.80 210 - 225 0 --- R.IEHFTGDMENLTSQIR.E + Oxidation (M)

2012.9506 2011.9433 2011.9810 -18.73 517 - 533 1 --- K.AELSELIR.K

2077.0454 2076.0381 2076.0422 -1.96 508 - 524 1 --- K.AQRECVLKEIQHSLEK.S

2334.1531 2333.1458 2333.1975 -22.13 444 - 464 2 --- K.SAEYTALARQLEAALEEGRQK.V

2553.1934 2552.1861 2552.2475 -24.05 504 - 524 2 --- K.MNSKAQHQEVCLKEIQHSLEK.S + Oxidation (M)

No match to: 724.2539, 725.2472, 728.2482, 730.2519, 732.2390, 733.2623, 739.3115, 742.4642, 743.4729, 745.752.3392, 758.3322, 758.3322, 778.3327, 742.4642, 743.4729, 746.3329, 748.3322, 748.3322, 748.3322, 748.3322, 748.3322, 748.3322, 748.3322, 748.3322, 748.3322, 748.3322, 748.3322, 748.3322, 748.3322, 748.3322, 748.3322, 748.3322, 748.3322, 748.3322, 748.3322, 748.3322, 748.3322, 748.3322, 748.3322, 748.3322, 748.3322, 748.3322, 748.3322, 748.3322, 748.3322, 748.3322, 748.3322, 748.3322, 748.3322, 748.3322, 748.3322, 748.3322, 748.3322, 748.3322, 748.3322, 748.3322, 748.3322, 748.3322, 748.3322, 748.3322, 748.3322, 748.3322, 748.3322, 748.3322, 748.3322, 748.3322, 748.3322, 
                                                                     19.7
                           810.4105
                                                  810.3945
                                                                                         183 - 189
                                                                                                                                      K.YEAVAMK.E
  2552.1861 2552.1861 2552.2472, 728.2482, 730.2519, 732.2390, 733.2623, 739.3115, 742.4642, 743.4729, 745.4483, 747.4419, 752.3972, 754.3827, 756.3716, 758.3382, 760.3329, 764.3364, 766.3494, 768.3865, 770.3671, 772.4178, 779.4436, 784.3415, 787.2366, 788.4225, 790.4196, 795.4260, 799.2464, 802.4372, 805.4478, 808.4353, 814.4170, 819.4304, 821.4247, 822.4321, 829.4457, 837.4396, 840.4623, 842.5109, 854.4525, 856.5045, 858.5442, 860.4092, 863.4233, 863.9185, 869.4846, 870.5100, 872.4994, 880.4412, 906.4929,
   908.4577, 913.5685, 919.5024, 927.4999, 928.5031, 940.4773, 942.4820, 950.4946, 957.5654, 966.4929, 969.4786, 972.5046, 974.5551, 977.5352, 978.5240, 981.4474, 989.2700, 991.5198, 993.5112, 1001.5782, 1007.5089, 1009.5097, 1013.4454, 1015.5150, 1016.5522,
   1018.5189, 1021.5313, 1024.5028, 1025.5192, 1029.5330, 1033.5739, 1035.5203, 1045.5564, 1046.5759, 1051.5074, 1056.5415, 1057.6005, 1064.5358, 1071.5361, 1073.5377, 1079.5398, 1083.4637, 1086.4774, 1092.6000, 1092.6002, 1094.5596, 1096.5302, 1106.5431, 1110.5461,
   1111.5398, 1111.5400, 1118.5620, 1120.5724, 1123.5819, 1128.5537, 1132.5682, 1134.5841, 1135.5942, 1137.5565, 1143.5844, 1145.6155,
   1149.5597, 1153.5929, 1158.6288, 1163.5771, 1173.6008, 1175.5867, 1177.6178, 1178.6053, 1179.5962, 1192.5721, 1199.6315, 1203.5826, 1211.5984, 1215.6246, 1216.6786, 1221.5699, 1222.5789, 1227.6271, 1228.6411, 1229.6412, 1231.6102, 1233.6571, 1237.6270, 1238.5917,
   1244.6069, 1248.5958, 1250.6042, 1255.5922, 1258.6344, 1268.6414, 1271.6490, 1275.6388, 1276.5977, 1276.6000, 1285.5864, 1299.6810, 1300.6566, 1309.6340, 1320.6268, 1328.6292, 1333.7025, 1336.6038, 1338.6589, 1341.6488, 1343.6613, 1345.6910, 1349.6838, 1350.6704,
   1355.6870, 1357.7130, 1358.6704, 1369.7067, 1374.6705, 1384.7109, 1386.7134, 1390.6848, 1393.7169, 1399.6119, 1400.6588, 1406.7207, 1410.6736, 1411.6647, 1416.6047, 1418.6714, 1421.6632, 1425.7395, 1426.6846, 1427.7076, 1430.7102, 1432.6718, 1434.6552, 1438.6991,
   1439.7164, 1443.7589, 1444.7375, 1445.7306, 1454.6836, 1461.7990, 1472.7026, 1475.7224, 1485.6906, 1489.7172, 1490.7058, 1493.7157, 1510.7383, 1515.7393, 1523.6987, 1524.7383, 1527.7585, 1529.7466, 1530.6902, 1531.6953, 1537.7804, 1538.7736, 1539.7621, 1541.7805, 1542.8290, 1549.6758, 1553.7277, 1555.7928, 1556.7874, 1560.7551, 1563.7314, 1568.7372, 1570.8015, 1572.8151, 1576.7402, 1577.7395,
   1578.7518, 1581.8373, 1591.7852, 1600.8068, 1603.8092, 1604.8136, 1606.8130, 1608.7599, 1613.7793, 1615.8575, 1615.8600, 1624.7632, 1628.7653, 1633.7913, 1634.7969, 1635.7941, 1639.8157, 1643.8085, 1646.8591, 1647.8268, 1651.8206, 1653.8284, 1677.8074, 1681.8087,
   1688.8287, 1690.8313, 1694.7357, 1697.8672, 1703.8214, 1706.8364, 1707.8435, 1708.3533, 1709.3307, 1710.8229, 1715.8053, 1719.8075, 1723.8743, 1724.8828, 1725.8090, 1748.7931, 1757.8975, 1763.7841, 1768.8075, 1771.9686, 1774.9059, 1777.8727, 1779.8081, 1786.8824,
   1787.8207, 1790.8423, 1793.9556, 1796.8109, 1797.8339, 1800.8578, 1815.9008, 1819.8838, 1821.8926, 1822.9185, 1826.8450, 1829.8655,
  1833.8975, 1836.9054, 1843.8765, 1844.8785, 1851.9031, 1859.8494, 1862.9265, 1863.9319, 1866.8857, 1868.8972, 1879.9445, 1880.9215, 1887.9023, 1888.8057, 1890.8025, 1896.8954, 1901.0060, 1908.8663, 1913.8895, 1916.9475, 1924.9314, 1925.9336, 1928.0060, 1931.9956,
   1932.9833, 1968.8563, 1984.9392, 2008.0485, 2008.9869, 2009.9747, 2015.9661, 2020.9644, 2030.0151, 2030.4644, 2047.5186, 2047.9097, 2051.9133, 2059.0122, 2064.9746, 2070.9209, 2082.9409, 2085.9888, 2090.9844, 2097.9778, 2103.1526, 2108.9897, 2118.8926, 2140.0432,
   2142.0310, 2142.9895, 2152.0510, 2155.0667, 2159.0752, 2160.0703, 2161.0813, 2166.0911, 2167.0676, 2174.0425, 2178.0034, 2181.0369,
   2184.0767, 2189.9133, 2194.9761, 2199.0986, 2203.0464, 2205.9102, 2208.9729, 2211.1077, 2213.1116, 2214.1145, 2218.1018, 2221.1035,
   2223.2205, 2225.1592, 2229.1064, 2233.1023, 2245.0991, 2269.1128, 2273.0393, 2277.0576, 2279.1094, 2280.1204, 2283.1279, 2285.1169,
  2292.1465, 2296.1479, 2312.0664, 2323.1892, 2326.0947, 2335.1282, 2337.1343, 2369.2256, 2372.2229, 2383.9978, 2385.2129, 2392.1528, 2400.1094, 2401.1360, 2409.1914, 2411.1907, 2414.1833, 2429.1475, 2436.1699, 2437.1758, 2440.2007, 2447.2368, 2477.1301, 2495.0542,
  2498.0898, 2510.2229, 2524.1689, 2527.2310, 2535.2598, 2541.2075, 2543.1907, 2544.1514, 2557.2300, 2560.1125, 2569.2915, 2572.0935, 2612.1936, 2686.3572, 2788.3362, 2963.6167, 3056.4641, 3058.5842, 3180.5432, 3313.5032, 3330.6311, 3347.6077, 3511.9668, 3761.1558
  <u>E1BPQ8</u> Mass: 60653
                                                      Score: 19
                                                                                    Expect: 3.3e+002 Matches: 22
   Uncharacterized protein OS=Bos taurus GN=CDC73 PE=4 SV=1
   Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide
                           804.4405
                                                  804.4316
                                                                           11.1 521 - 526 1 --- R.YMVKHK.S
                                                  820.4265 -11.12 521 - 526 1 ---
                                                                                                                                      R.YMVKHK.S + Oxidation (M)
                                                  871.5127 -23.63
                           871.4921
                                                                                                                                      M.ADVLSVLR.O
                                                 903.4709 -18.63 393 - 399 2 --- K.KKQGCQR.E

1023.4873 8.06 300 - 308 1 --- K.GKEETEGFK.I

1028.5403 -14.17 284 - 292 0 --- K.QPIPAAYNR.Y

1095.5118 10.2 172 - 181 0 --- R.SLSEAMSVEK.I + Oxidation (M)

1157.6153 5.42 400 - 408 1 --- R.ENETLIQRR.K
                          903.4540
  1024.5028
                        1023.4955 1023.4873 8.06
  1029.5330 1028.5257 1028.5403 -14.17
  1096.5302 1095.5229 1095.5118
  1158.6288 1157.6215 1157.6153
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1237.6270 1236.6197 1236.5986 17.0 212 - 222 0 ---- R.SFVDAEVDVTR.D
1299.6810 1298.6737 1298.6507 17.8 298 - 308 2 ---- R.FKGKEETEGFK.I
1430.7102 1429.7029 1429.6983 3.21 137 - 147 1 ---- K.KPRIEDEECVR.L
1475.7224 1474.7151 1474.7416 -17.95 480 - 491 1 ---- K.YDEVRLDPNVQK.W
1510.7383 1509.7310 1509.7140 11.3 22 - 34 0 ---- K.GDEVIFGEFSWPK.N
1646.8591 1645.8518 1645.8563 -2.72 379 - 392 1 ---- K.DLLQDLKFVPSDEK.K
1690.8313 1689.8240 1689.7992 14.7 140 - 152 2 ---- R.IEDECVRLDKER.L
1786.8824 1785.8751 1785.9043 -16.34 137 - 150 2 ---- K.KPRIEDEECVRLDKER.L
1793.9556 1792.9483 1792.9505 -1.23 1 - 15 1 ---- K.KPRIEDEECVRLDK.E
1819.8838 1818.8765 1818.8934 -9.30 410 - 426 0 ---- K.DQMQPGGTAISVTVPYR.V
1851.9031 1850.8958 1850.9203 -13.23 22 - 37 1 ---- K.GDEVIFGEFSWPKNVK.T
1932.9833 1931.9760 1932.0164 -20.88 195 - 211 2 ---- R.STIKTDLDDDITALKQR.S
2009.9747 2008.9674 2009.0065 -19.46 92 - 110 1 ---- R.KDLGYLNGEASTSASIDR.S
2326.0947 2325.0874 2325.1093 -9.41 309 - 330 1 ---- K.IDTMGTYHGMTLKSVTEGASAR.K
No match to: 724.2539, 725.2472, 728.2482, 730.2519, 732.2390, 733.2623, 739.3115, 742.4642, 743.4
  No match to: 724.2539, 725.2472, 728.2482, 730.2519, 732.2390, 733.2623, 739.3115, 742.4642, 743.4729, 745.4483, 747.4419,
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  2522.1980, 2524.1689, 2527.2310, 2535.2598, 2541.2075, 2543.1907, 2544.1514, 2553.1934, 2557.2300, 2560.1125, 2569.2915, 2572.0935,
  2612.1936, 2686.3572, 2788.3362, 2963.6167, 3056.4641, 3058.5842, 3180.5432, 3313.5032, 3330.6311, 3347.6077, 3511.9668, 3761.1558
 Q2TA00 Mass: 49021
                                             Score: 18
                                                                          Expect: 3.4e+002 Matches: 20
  Coiled-coil domain-containing protein 83 OS=Bos taurus GN=CCDC83 PE=2 SV=1
Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide
  No match to: 724.2539, 725.2472, 728.2482, 730.2519, 732.2390, 733.2623, 739.3115, 742.4642, 743.4729, 745.4483, 747.4419,
  752.3972, 754.3827, 758.3382, 760.3329, 764.3364, 766.3494, 767.4740, 768.3865, 770.3671, 772.4178, 779.4436, 784.3415, 787.2366, 788.4225, 790.4196, 795.4260, 799.2464, 802.4372, 805.4478, 808.4353, 811.4178, 814.4170, 819.4304, 821.4247, 822.4321, 829.4457,
   837.4396, 840.4623, 842.5109, 854.4525, 856.5045, 858.5442, 860.4092, 863.4233, 863.9185, 869.4846, 870.5100, 872.4994, 880.4412,
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  1577.7395, 1578.7518, 1581.8373, 1591.7852, 1600.8068, 1603.8092, 1604.8136, 1606.8130, 1608.7599, 1613.7793, 1615.8575, 1615.8600,
  1624.7632, 1628.7653, 1633.7913, 1634.7969, 1635.7941, 1639.8157, 1643.8085, 1646.8591, 1647.8268, 1651.8206, 1653.8284, 1677.8074,
  1681.8087, 1688.8287, 1690.8313, 1694.7357, 1697.8672, 1703.8214, 1706.8364, 1707.8435, 1708.3533, 1709.3307, 1710.8229, 1715.8053
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         1822.9185, 1826.8450, 1829.8655, 1833.8975, 1836.9054, 1843.8765, 1844.8785, 1851.9031, 1859.8494, 1862.9265, 1866.8857, 1868.8972
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         2569.2915, 2572.0935, 2612.1936, 2686.3572, 2788.3362, 2963.6167, 3056.4641, 3058.5842, 3180.5432, 3313.5032, 3330.6311, 3347.6077,
43. <u>E1B992</u> Mass: 72756
                                            Score: 18 Expect: 3.4e+002 Matches: 21
         Uncharacterized protein OS=Bos taurus PE=4 SV=2
         Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide
      67 - 74 1 ---
67 - 75 2 ---
        1025.5192 1024.5119
                                                                                   1 --- K.SYDRLSER.K
                                       1024.4937
        3347.6077 3346.6004 3346.6292
                                                        -8.60
                                                                      2 - 29 2 --- M.DSLVFEDVAMNFTEQWGLLDSSQRKLYR.D
         No match to: 724.2539, 725.2472, 728.2482, 730.2519, 732.2390, 733.2623, 739.3115, 742.4642, 743.4729, 745.4483, 747.4419,
         752.3972, 754.3827, 756.3716, 758.3382, 760.3329, 764.3364, 766.3494, 767.4740, 768.3865, 770.3671, 772.4178, 779.4436, 784.3415,
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                     Mass: 119646 Score: 18
                                                                Expect: 3.4e+002 Matches: 39
        Oral-facial-digital syndrome 1 isoform 1 OS=Bos taurus GN=OFD1 PE=2 SV=2
                                        Mr(calc) ppm Start End Miss Ions Peptide
         Observed Mr (expt)
                                                                  55 - 61 0 --- R.GVLDTLK.T
323 - 329 1 --- R.GREAELK.Q
                         801.4299
                                         801.4344 -5.64
                                                                                                   R.GREAELK.O
                                         821.4395 -17.85 225 - 230 1 --- K.LNEYKR.E
                         821.4249
                                         949.4902 -3.10 238 - 245 1 --- K.INEIRK.E

956.5403 18.6 317 - 324 1 --- K.DIDLLEGR.E

959.4825 -6.04 925 - 931 0 --- K.UQETLQR.E

976.5263 1.63 249 - 256 1 --- K.DTEIMKIK.M
                         949.4873
                         956.5581
                         959.4767
        993.5112 992.5039 992.5212 -17.45 249 - 256 1 --- K.DTEIMKIK.M + Oxidation (M)
1016.5522 1015.5449 1015.5662 -20.96 53 - 61 1 --- K.DRGVLDTLK.T
1021.5313 1020.5240 1020.5022 21.4 346 - 354 1 --- K.DKGVLDTLK.T
1029.5330 1028.5257 1028.5475 -21.19 750 - 758 2 --- R.SHKSTASRR.L
1057.6005 1056.5932 1056.5676 24.3 230 - 237 1 --- K.REVEQQLR.A
                                                                    2 - 12 0 --- M.AHVPSPAASSR.R
390 - 398 1 --- R.TNRLIEDER.K
        1079.5398 1078.5325 1078.5519 -18.00
        1145.6155 1144.6082 1144.5836
                                                         21.5
                                                        15.1
                                                                    935 - 943 1 --- R.QLEKLDQER.R
        1158.6288 1157.6215 1157.6040
```

```
1173.6008 1172.5935 1172.5646 24.6 913 - 921 2 --- R.ERRQGDEQR.Q
1177.6178 1176.6105 1176.6033 6.13 346 - 355 2 --- K.NKSMTDGLRR.R
1199.6315 1198.6242 1198.6306 -5.33 722 - 732 0 --- R.VTSQQPPVSTR.G
 1229.6412 1228.6339 1228.6234 8.58 448 - 457 1 --- K.QNHMLSEKVK.E + Oxidation (M)
                                                                                915 - 924
                                                                                                       2 --- R.RQGDEQRQSK.W
 1231.6102 1230.6029 1230.6065
 1271.6490 1270.6417 1270.6420 -0.23 25 - 34 0 --- R.FISWSIMFPK.S + Oxidation (M) 1275.6388 1274.6315 1274.6466 -11.86 35 - 45 1 --- K.SDVLSQDDLRK.K 1377.6100 1376.6027 1376.6129 -7.40 662 - 672 0 --- R.ELEQEAECLEK.A
1377.6100 1376.6027 1376.6129 -7.40 662 - 672 0 --- R.ELEQEAECLEK.A
1377.6146 1376.6073 1376.6129 -4.06 662 - 672 0 --- R.ELEQEAECLEK.A
1439.7164 1438.7091 1438.6940 10.5 769 - 781 0 --- R.SLDSETYLEGLGR.S
1445.7306 1444.7233 1444.7521 -19.93 896 - 907 2 --- K.SLGEQKEEEKLR.E
1510.7383 1509.7310 1509.7418 -7.15 249 - 260 2 --- K.DTEIMKIKMEEK.R + Oxidation (M)
1570.8015 1569.7942 1569.8038 -6.12 378 - 389 1 --- K.YQLELKEDYITR.T
1591.7852 1590.7779 1590.7671 6.78 231 - 243 1 --- R.EVEQQURAEMSQR.L + Oxidation (M)
1591.7852 1590.7779 1590.7671 6.78 231 - 243 1 --- R.EVEQQLRAEMSQK.L + Oxidation (M)
1703.8214 1702.8141 1702.7719 24.8 957 - 970 2 --- K.EYESSVQEMKDKSK.S + Oxidation (M)
1723.8743 1722.8670 1722.8676 -0.31 357 - 370 1 --- R.ELTIKNIEETYDQK.L
1859.8494 1858.8421 1858.8328 5.01 952 - 966 1 --- K.EMEKEYESSVQEMK.D
1863.9319 1862.9246 1862.8846 21.5 673 - 687 1 --- K.AFQNYHQRVSQCPTK.S
1879.9445 1878.9372 1878.9687 -16.73 356 - 370 2 --- R.ELTIKNIEETYDQK.L
1887.9023 1886.8950 1886.9342 -20.77 440 - 455 1 --- R.AQCLALTKQNHMLSEK.V + Oxidation (M)
1280.1204 2279.1131 2279.1289 -6.94 448 - 466 2 --- K.QNHMLSEKVKEMSDYSLLK.E
1296.1479 2295.1406 2295.1239 7.31 448 - 466 2 --- K.QNHMLSEKVKEMSDYSLLK.E + Oxidation (M)
                                                                -1.76 573 - 593 0 --- K.QTQTALENEVYPNPSHSLLNR.S
 2411.1907 2410.1834 2410.1877
 2527.2310 2526.2237 2526.1874
                                                                 14.4
                                                                               636 - 659 1 ---
                                                                                                                         R.YPNASAEGSSPDSDLEFVASTKVR.V
  No match to: 724.2539, 725.2472, 728.2482, 730.2519, 732.2390, 733.2623, 739.3115, 742.4642, 743.4729, 747.4419, 752.3972,
  No match to: 74.2539, 725.2472, 728.2482, 730.2519, 732.2390, 733.2623, 739.3115, 742.4642, 743.4729, 747.4419, 752.3972, 754.3827, 756.3716, 758.382, 760.3329, 764.3364, 767.4740, 768.3865, 770.3671, 772.4178, 779.4436, 784.3415, 787.2366, 788.4225, 790.4196, 795.4260, 799.2464, 805.4478, 808.4353, 811.4178, 814.4170, 819.4304, 821.4247, 829.4457, 837.4396, 840.4623, 842.5109, 854.4525, 856.5045, 858.5442, 860.4092, 863.4233, 863.9185, 869.4846, 870.5100, 872.4994, 880.4412, 904.4613, 906.4929, 908.4577, 913.5685, 919.5024, 925.5089, 927.4999, 928.5031, 940.4773, 942.4820, 966.4929, 969.4786, 972.5046, 974.5551, 978.5240, 981.4474, 989.2700, 991.5198, 1001.5782, 1007.5089, 1009.5097, 1013.4454, 1015.5150, 1018.5189, 1024.5028, 1025.5192, 1032.5870,
  1033.5739, 1035.5203, 1045.5564, 1046.5759, 1051.5074, 1056.5415, 1064.5358, 1071.5361, 1073.5377, 1083.4637, 1086.4774, 1092.6000, 1092.6002, 1094.5596, 1096.5302, 1106.5431, 1110.5461, 1111.5398, 1111.5400, 1115.5790, 1118.5620, 1120.5724, 1123.5819, 1128.5537,
  1132.5682, 1134.5841, 1135.5942, 1137.5565, 1143.5844, 1149.5597, 1153.5929, 1163.5771, 1175.5867, 1178.6053, 1179.5962, 1181.6432,
 1192.5721, 1203.5826, 1211.5984, 1215.6246, 1216.6786, 1221.5699, 1222.5789, 1227.6271, 1228.6411, 1233.6571, 1237.6270, 1238.5917, 1244.6069, 1248.5958, 1250.6042, 1255.5922, 1258.6344, 1268.6414, 1276.5977, 1276.6000, 1285.5864, 1294.6315, 1299.6810, 1300.6566,
  1309.6340, 1320.6268, 1328.6292, 1333.7025, 1336.6038, 1338.6589, 1341.6488, 1343.6613, 1345.6910, 1349.6838, 1350.6704, 1352.6350, 1355.6870, 1357.7130, 1358.6704, 1369.7067, 1371.7366, 1374.6705, 1384.7109, 1386.7134, 1390.6848, 1393.7169, 1399.6119, 1400.6588,
  1406.7207, 1410.6736, 1411.6647, 1416.6047, 1418.6714, 1421.6632, 1425.7395, 1426.6846, 1427.7076, 1430.7102, 1432.6718, 1434.6552,
  1438.6991, 1443.7589, 1444.7375, 1454.6836, 1461.7990, 1472.7026, 1475.7224, 1485.6906, 1489.7172, 1490.7058, 1493.7157, 1515.7393, 1523.6987, 1524.7383, 1527.7585, 1529.7466, 1530.6902, 1531.6953, 1537.7804, 1538.7736, 1539.7621, 1541.7805, 1542.8290, 1549.6758,
  1553.7277, 1555.7928, 1556.7874, 1560.7551, 1563.7314, 1568.7372, 1572.8151, 1576.7402, 1577.7395, 1578.7518, 1581.8373, 1600.8068, 1603.8092, 1604.8136, 1606.8130, 1608.7599, 1613.7793, 1615.8575, 1615.8600, 1624.7632, 1628.7653, 1633.7913, 1634.7969, 1635.7941,
  1639.8157, 1643.8085, 1646.8591, 1647.8268, 1651.8206, 1653.8284, 1677.8074, 1681.8087, 1688.8287, 1690.8313, 1694.7357, 1697.8672, 1706.8364, 1707.8435, 1708.3533, 1709.3307, 1710.8229, 1715.8053, 1719.8075, 1721.8296, 1724.8828, 1725.8090, 1730.8199, 1748.7931,
  1757.8975, 1763.7841, 1768.8075, 1771.9686,
                                                                                      1774.9059, 1777.8727, 1779.8081,
                                                                                                                                                      1786.8824, 1787.8207, 1790.8423, 1793.9556, 1796.8109
  1797.8339, 1800.8578, 1815.9008, 1819.8838, 1821.8926, 1822.9185, 1826.8450, 1829.8655, 1833.8975, 1836.9054, 1843.8765, 1844.8785,
  1851.9031, 1862.9265, 1866.8857, 1868.8972, 1880.9215, 1888.8057, 1890.8025, 1896.8954, 1901.0060, 1906.8872, 1908.8663, 1913.8895,
 1916.9475, 1924.9314, 1925.9336, 1928.0060, 1931.9956, 1932.9833, 1968.8563, 1984.9392, 2008.0485, 2008.9869, 2009.9747, 2012.9506, 2015.9661, 2020.9644, 2030.0151, 2030.4648, 2046.9839, 2047.5186, 2047.9097, 2051.9133, 2059.0122, 2064.9746, 2070.9209, 2077.0454,
  2082.9409, 2085.9888, 2090.9844, 2097.9778, 2103.1526, 2108.9897, 2118.8926, 2140.0432, 2142.0310, 2142.9895, 2152.0510, 2155.0667, 2159.0752, 2160.0703, 2161.0813, 2166.0911, 2167.0676, 2174.0425, 2178.0034, 2181.0369, 2184.0767, 2189.9133, 2194.9761, 2199.0986,
 2203.0464, 2205.9102, 2208.9729, 2211.1077, 2213.1116, 2214.1145, 2218.1018, 2221.1035, 2223.2205, 2225.1592, 2229.1064, 2233.1023, 2245.0991, 2269.1128, 2273.0393, 2277.0576, 2279.1094, 2283.1279, 2285.1169, 2292.1465, 2312.0664, 2323.1892, 2326.0947, 2334.1531,
  2335.1282, 2337.1343, 2369.2256, 2372.2229, 2383.9978, 2385.2129, 2392.1528, 2400.1094, 2401.1360, 2409.1914, 2414.1833, 2429.1475,
 2436.1699, 2437.1758, 2440.2007, 2447.2368, 2477.1301, 2495.0542, 2498.0898, 2510.2229, 2522.1980, 2524.1689, 2535.2598, 2541.2075, 2543.1907, 2544.1514, 2553.1934, 2557.2300, 2560.1125, 2569.2915, 2572.0935, 2612.1936, 2686.3572, 2788.3362, 2963.6167, 3056.4641,
  3058.5842, 3180.5432, 3313.5032, 3330.6311, 3347.6077, 3511.9668, 3761.1558
                                                                             Expect: 3.4e+002 Matches: 37
 E1BI42 Mass: 127633 Score: 18
  Uncharacterized protein OS=Bos taurus GN=CCDC158 PE=4 SV=2
  Observed

        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss
        Ions
        Peptide

        741.4570
        741.4749
        -24.14
        563
        -
        568
        0
        ---
        K.VIEIL

  742.4642
                                                                                                                            K.VIETLR.O
                                            787.4188 -4.55 650 - 655 1 ---
820.4113 7.50 217 - 224 0 ---
  788.4225
                       787.4152
                                                                                                                            K.DIKOER.D
  821 4247
                       820 4174
                                                                                                                            R NMASATSK V
1032.5870 1031.5797 1031.6049 -24.36 431 - 439 1 ---
1096.5302 1095.5229 1095.5230 -0.06 488 - 496 1 ---
                                                                                                                            R.LEALLKAMK.S + Oxidation (M)
                                                                                                                           K KMTLESSER T + Oxidation (M)

    1096,5302
    1095,5229
    1095,5230
    -0.06
    488 - 496
    1
    ---

    1215,6246
    1214,6173
    1214,6255
    -6.71
    593 - 602
    1
    ---

    1231,6102
    1230,6029
    1230,6244
    -17.48
    79 - 88
    0
    ---

    1275,6388
    1274,6315
    1274,6255
    4.74
    57 - 66
    1
    ---

    1341,6488
    1340,6415
    1340,6684
    -20.08
    407 - 418
    0
    ---

    1371,7366
    1370,7293
    1370,7266
    2.00
    593 - 603
    2
    ---

    1410,6736
    1409,6663
    1409,6708
    -3.16
    687 - 698
    1
    ---

                                                                                                                            K.AOLEKEINDR.R
                                                                                                                            R.VLEEYSHOVK.D
                                                                                                                            K.YEVELDSHRK.V
                                                                                                                            R.DTGNSITIDHLR.R
                                                                                                                            K.AOLEKEINDRR.L
                                                                                                                            K.SEEMETTTNKLK.M

    1410.6/36
    1409.6/663
    1409.6/08
    -3.16
    687
    - 698
    1
    ---

    1411.6647
    1410.6574
    1410.6296
    19.7
    685
    - 696
    1
    ---

    1426.6846
    1425.6773
    1425.6697
    5.35
    339
    349
    1
    ---

    1443.7589
    1442.7516
    1442.7729
    -14.73
    350
    - 362
    0
    ---

    1445.7306
    1444.7233
    1444.7521
    -19.93
    509
    521
    1
    ---

    1461.7990
    1460.7917
    1460.7955
    -2.62
    728
    740
    2
    ---

    1524.7383
    1523.7310
    1523.7290
    1.36
    750
    - 762
    0
    ---

                                                                                                                            R.NKSEEMETTTNK.L
                                                                                                                           R.MYEDKIEELEK.O
                                                                                                                            K.QLVLANSELTEAR.T
                                                                                                                            K.ERAIEATNAEITK.L
                                                                                                                            K.VAMGMOKOITAKR.G
                                                                                                                            K.IQFLEEAMTNANK.E + Oxidation (M)
 1531.6953 1530.6880 1530.6798 5.39 964 - 977 1 ---
1560.7551 1559.7478 1559.7474 0.27 419 - 430 2 ---
                                                                                                                            R.ESTEGSKSSETFSR.E
                                                                                                                            R.RELDDRNMEVOR.L
 1568.7372 1567.7299 1567.7082 13.8 1087 - 1099 1 ---
                                                                                                                            K.NQAMSSMIRNQEK.R + 2 Oxidation (M)
                                                                                                                            R.RELDDRNMEVQR.L + Oxidation (M)
 1576.7402 1575.7329 1575.7423
                                                                 -5.97 419 - 430
 1604.8136 1603.8063 1603.8165 -6.36 703 - 716 1 ---
                                                                                                                            K.SAQSELEQTRNTLK.S
 1646.8591 1645.8518 1645.8597
                                                                 -4.75 1073 - 1086
                                                                                                                            R.LESLOTLVEDLOMK.N
 1721.8296 1720.8223 1720.8162
                                                                3.54 938 - 951 2 ---
                                                                                                                            K.DDRVRDCITESSLR.L
 1730.8199 1729.8126 1729.8231
                                                                  -6.05
                                                                                925 - 940
                                                                                                                            K.SEEDGRAPSLGVKDDR.V
 1822.9185 1821.9112 1821.9108
                                                                 0.23 667 - 681 1 ---
                                                                                                                            R.NELNSLTEDYEVLKR.N
 1844.8785 1843.8712 1843.8370
                                                                                682 - 696
                                                                                                                            R.NFRNKSEEMETTINK.L + Oxidation (M)
                                                                                  89 - 103 2 ---
 1880.9215 1879.9142 1879.9500 -19.02
                                                                                                                            K.DLORRLNESNELHEK.O
                                                                                110 - 126
 2077.0454 2076.0381 2076.0343
                                                                                                                            R.QSVIDLQTKLQEMQMER.D
```

```
2108.9897 2107.9824 2108.0242 -19.80 110 - 126 1 --- R.QSVIDLQTKLQEMQMER.D + 2 Oxidation (M)
2203.0464 2202.0391 2202.0148 11.0 958 - 977 2 --- R.SNNSLRESTEGSKSSETFSR.E
2369.2256 2368.2183 2368.1791 16.5 488 - 508 2 --- K.KMTLESSERTVSDLTASLQEK.E + Oxidation (M)
2436.1699 2435.1626 2435.1429 8.09 717 - 739 2 --- K.SMEGSDGHAMKVAMGMQKQITAK.R
2510.2229 2509.2156 2509.2330 -6.91 489 - 510 2 --- K.MTLESSERTVSDLTASLQEKER.A
2535.2598 2534.2525 2534.2183 13.5 816 - 836 1 --- K.ASLQFAECQDIIQRQEQESVR.L
2686.3572 2685.3499 2685.2963 20.0 569 - 592 1 --- R.QGIENMTQLVGQHGRTAGAMQVEK.A + 2 Oxidation (M)
3180.5432 3179.5359 3179.5624 -8.33 1073 - 1099 2 --- R.LESLQTLVEMNQAMSSMIRNQEK.R + Oxidation (M)
No.match to: 724.2539 725.2472 728.2482 730.2519 732.2390 733.2623 739.3115 743.4729 745.4483 747.4418
  No match to: 724.2539, 725.2472, 728.2482, 730.2519, 732.2390, 733.2623, 739.3115, 743.4729, 745.4483, 747.4419, 752.3972, 754.3827, 756.3716, 758.3382, 760.3329, 764.3364, 766.3494, 767.4740, 768.3865, 770.3671, 772.4178, 779.4436, 784.3415, 787.2366, 790.4196, 795.4260, 799.2464, 802.4372, 805.4478, 808.4353, 811.4178, 814.4170, 819.4304, 822.4321, 829.4457, 837.4396, 840.4623,
  842.5109, 854.4525, 856.5045, 858.5442, 860.4092, 863.4233, 863.9185, 869.4846, 870.5100, 872.4994, 880.4412, 904.4613, 906.4929, 908.4577, 913.5685, 919.5024, 925.5089, 927.4999, 928.5031, 940.4773, 942.4820, 950.4946, 957.5654, 960.4840, 966.4929, 969.4786,
  972.5046, 974.5551, 977.5352, 978.5240, 981.4474, 989.2700, 991.5198, 993.5112, 1001.5782, 1007.5089, 1009.5097, 1013.4454, 1015.5150, 1016.5522, 1018.5189, 1021.5313, 1024.5028, 1025.5192, 1029.5330, 1033.5739, 1035.5203, 1045.5564, 1046.5759, 1051.5074, 1056.5415, 1057.6005, 1064.5358, 1071.5361, 1073.5377, 1079.5398, 1083.4637, 1086.4774, 1092.6000, 1092.6002, 1094.5596, 1106.5431,
  1110.5461, 1111.5398, 1111.5400, 1115.5790, 1118.5620, 1120.5724, 1123.5819, 1128.5537, 1132.5682, 1134.5841, 1135.5942, 1137.5565, 1143.5844, 1145.6155, 1149.5597, 1153.5929, 1158.6288, 1163.5771, 1173.6008, 1175.5867, 1177.6178, 1178.6053, 1179.5962, 1181.6432,
  1192.5721, 1199.6315, 1203.5826, 1211.5984, 1216.6786, 1221.5699, 1222.5789, 1227.6271, 1228.6411, 1229.6412, 1233.6571, 1237.6270, 1238.5917, 1244.6069, 1248.5958, 1250.6042, 1255.5922, 1258.6344, 1268.6414, 1271.6490, 1276.5977, 1276.6000, 1285.5864, 1294.6315,
  1299.6810, 1300.6566, 1309.6340, 1320.6268, 1328.6292, 1333.7025, 1336.6038, 1338.6599, 1343.6613, 1345.6910, 1349.6838, 1350.6704, 1352.6350, 1355.6870, 1357.7130, 1358.6704, 1369.7067, 1374.6705, 1377.6100, 1377.6146, 1384.7109, 1386.7134, 1390.6848, 1393.7169, 1399.6119, 1400.6588, 1406.7207, 1416.6047, 1418.6714, 1421.6632, 1425.7395, 1427.7076, 1430.7102, 1432.6718, 1434.6552, 1438.6991,
  1439,7164, 1444,7375, 1454,6836, 1472,7026, 1475,7224, 1485,6906, 1489,7172, 1490,7058, 1493,7157, 1510,7383, 1515,7393, 1523,6987,
  1527.7585, 1529.7466, 1530.6902, 1537.7804, 1538.7736, 1539.7621, 1541.7805, 1542.8290, 1549.6758, 1553.7277, 1555.7928, 1556.7874,
   1563.7314, 1570.8015, 1572.8151, 1577.7395, 1578.7518, 1581.8373, 1591.7852, 1600.8068, 1603.8092, 1606.8130, 1608.7599, 1613.7793
  1615.8575, 1615.8600, 1624.7632, 1628.7653, 1633.7913, 1634.7969, 1635.7941, 1639.8157, 1643.8085, 1647.8268, 1651.8206, 1653.8284,
   1677.8074, 1681.8087, 1688.8287, 1690.8313, 1694.7357, 1697.8672, 1703.8214, 1706.8364, 1707.8435, 1708.3533, 1709.3307,
  1715.8053, 1719.8075, 1723.8743, 1724.8828, 1725.8090, 1748.7931, 1757.8975, 1763.7841, 1768.8075, 1771.9686, 1774.9059, 1777.8727
   1779.8081, 1786.8824, 1787.8207, 1790.8423, 1793.9556, 1796.8109, 1797.8339, 1800.8578, 1815.9008, 1819.8838, 1821.8926, 1826.8450,
  1829.8655, 1833.8975, 1836.9054, 1843.8765, 1851.9031, 1859.8494, 1862.9265, 1863.9319, 1866.8857, 1868.8972, 1879.9445, 1887.9023, 1888.8057, 1890.8025, 1896.8954, 1901.0060, 1906.8872, 1908.8663, 1913.8895, 1916.9475, 1924.9314, 1925.9336, 1928.0060, 1931.9956,
  1932.9833, 1968.8563, 1984.9392, 2008.0485, 2008.9869, 2009.9747, 2012.9506, 2015.9661, 2020.9644, 2030.0151, 2030.4648, 2046.9839, 2047.5186, 2047.9097, 2051.9133, 2059.0122, 2064.9746, 2070.9209, 2082.9409, 2085.9888, 2090.9844, 2097.9778, 2103.1526, 2118.8926,
  2140.0432, 2142.0310, 2142.9895, 2152.0510, 2155.0667, 2159.0752, 2160.0703, 2161.0813, 2166.0911, 2167.0676, 2174.0425, 2178.0034,
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                                                                        Expect: 3.4e+002 Matches: 14
 G3MWK4 Mass: 30649 Score: 18
Uncharacterized protein OS=Bos taurus GN=SRSF12 PE=4 SV=1
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Expect: 3.5e+002 Matches: 36
 E1BLN1
                  Mass: 117436 Score: 18
 Uncharacterized protein OS=Bos taurus GN=SYCP1 PE=4 SV=1
  Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide
                                                                    3.89 447 - 452 1 ---
   745.4483
                       744.4410
                                             744.4381
                                                                                                                       K.LLDEKK.O
                                            746.4174 23.1
903.4549 -0.95
976.5375 -9.88
  747.4419
                       746.4346
                                                                               505 - 510
                                                                                                                         K.TELEKK.N
  904.4613
                       903.4540
                                                                               795 - 801
                                                                                                                        R.EEKEELK.R
903.4540 903.4540 -0.95 795 -801 1 --- K.EEKEELK.R
977.5352 976.5279 976.5375 -9.88 383 - 390 1 --- K.TICNLKK.L
1001.5782 1000.5709 1000.5917 -20.72 445 - 452 2 --- K.QKLDEKK.Q
1051.5074 1050.5001 1050.4764 22.6 189 - 197 1 --- K.ETCARSAEK.T
1115.5790 1114.5717 1114.5982 -23.74 295 - 303 1 --- R.NKINQLEEK.T
1134.5841 1133.5768 1133.5824 -4.93 730 - 739 0 --- K.IAEMVALMEK.H
1158.6288 1157.6215 1157.6152 5.43 132 - 140 2 --- K.ENKLQENKK.I
1173.6008 1172.5935 1172.5859 6.47 372 - 382 0 --- K.AAHSSMVTELK.T
1173.0006 1172.5953 1172.5859 6.47 572 - 582 0 --- K.AAHSSWIELK.T. 1203.5826 1202.5753 1202.5891 -11.45 545 - 554 1 --- K.KQQEDINNSK.R 1216.6786 1215.6713 1215.6910 -16.18 978 - 987 2 --- R.WAVIAKMNRK.Q 1231.6102 1230.6029 1230.5952 6.24 546 - 555 1 --- K.QQEDINNSKR.Q 1294.6315 1293.6242 1293.6486 -18.82 417 - 427 1 --- K.SSELEEMTKLK.N
 1345.6910 1344.6887 1344.6885 -3.52 576 -586 1 --- R.NELESYREPELK.Q
1350.6704 1349.6631 1349.6497 9.95 954 - 966 0 --- K.TPSSLTTPGSMQK.S + Oxidation (M)
1371.7366 1370.7293 1370.7445 -11.08 106 - 116 2 --- R.LYSKLYKEAEK.I
                                                                               803 - 814 2 --- R.EMKENTVTLKGK.K + Oxidation (M) 58 - 70 0 --- K.NGENIDSDPALQK.V
 1393.7169 1392.7096 1392.7282 -13.37
 1400.6588 1399.6515 1399.6579 -4.56
 1406.7207 1405.7134 1405.6983 10.7 513 - 524 1 --- R.LKNTELTASCNR.L 1421.6632 1420.6559 1420.6881 -22.67 938 - 949 0 --- K.DNNPPISHLCVR.T
1427.7076 1426.7003 1426.6940 4.45 318 - 329 0 --- K.QDHLTSELEDIK.M
1445.7306 1444.7233 1444.7157 5.26 306 - 317 1 --- K.LQNENLKESNEK.Q
1538.7736 1537.7663 1537.7485 11.6 847 - 860 2 --- R.SFPSANQSRSSKDK.R
1577.7395 1576.7322 1576.7654 -21.04 531 - 544 0 --- K.ELAQETSDMALELK.K
1577.7395 1576.7322 1576.7654 -21.04 531 - 544 0 --- K.ELAQETSDMALELK.K
1581.8373 1580.8300 1580.8059 15.3 740 - 751 2 --- K.HKHQYDKIVEER.D
1703.8214 1702.8141 1702.8204 -3.71 726 - 739 1 --- R.CQHKIAEMVALMEK.H + Oxidation (M)
1719.8075 1718.8002 1718.8154 -8.80 726 - 739 1 --- R.CQHKIAEMVALMEK.H + 2 Oxidation (M)
1721.8296 1720.8223 1720.8553 -19.15 531 - 545 1 --- K.ELAQETSDMALELKK.Q + Oxidation (M)
1725.8090 1724.8017 1724.8443 -24.69 238 - 250 2 --- R.LEMHFKLKEDYEK.I + Oxidation (M)
1822.9185 1821.9112 1821.8978 7.37 935 - 949 1 --- K.LCKDNNPFISHLCVR.T
1984.9392 1983.9319 1983.9207 5.64 206 - 221 1 --- R.EETRQVYMDLNSNLEK.M + Oxidation (M)
2059.0122 2058.0049 2058.0051 -0.11 318 - 334 1 --- K.QDHLTSELEDIKMSLQR.S + Oxidation (M)
2214.1145 2213.1072 2213.1287 -9.71 163 - 181 2 --- K.LEGIQENKDLIKENNATR.H
2477.1301 2476.1228 2476.1666 -18.47 760 - 780 2 --- K.SKEQEHSSMKASLETELCNLR.N
2522.1890 2521.1890 2521.2516 -24.14 30.0 331 1 --- K.MSLOESUMTOMALEERLOURLN.N Oxidation
 2522.1980 2521.1907 2521.2516 -24.14
                                                                               330 - 351
                                                                                                                       K.MSLQRSVNTQMALEEDLQIATK.N + Oxidation (M)
                                                                                                       1 ---
 No match to: 724.2539, 725.2472, 728.2482, 730.2519, 732.2390, 733.2623, 739.3115, 742.4642, 743.4729, 752.3972, 754.3827,
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 2788.3362, 2963.6167, 3056.4641, 3058.5842, 3180.5432, 3313.5032, 3330.6311, 3347.6077, 3511.9668, 3761.1558
                Mass: 20708
                                              Score: 18
                                                                           Expect: 3.5e+002 Matches: 9
 Uncharacterized protein OS=Bos taurus GN=ISG20 PE=4 SV=1

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss Ions
        Peptide

        1421.6632
        1420.6559
        1420.6769
        -14.76
        170 - 181
        1 ---
        R.EQRGNCFLSITP.-

        1639.8157
        1638.8084
        1638.7962
        7.48
        142 - 156
        0 ---
        R.IQDSVLGHNSVEDAR.A

1639.8157 1638.8084 1638.7962 7.48 142 - 156 0 --- K.1QUSVLGHNSVEDAR.A 1690.8313 1689.8240 1689.8621 -22.51 168 - 181 2 --- K.1EQRGNCFLSITP.- 1890.8025 1889.7952 1889.8213 -13.82 100 - 115 1 --- K.ENMSDYAIYDTAADRR.L 2046.9839 2045.9766 2045.9364 19.7 97 - 114 1 --- K.ALKENMSDYAIYDTAADR.R 2181.0369 2180.0296 2180.0177 5.48 2 - 21 1 --- M.ARSADVVAMDCEMVGLGFFR.E 2203.0464 2202.0391 2202.0375 0.75 97 - 115 2 --- K.ALKENMSDYAIYDTAADRR.L 2269.1128 2268.1055 2268.0845 9.28 22 - 41 1 --- R.ESGLARCSLVDYRGSVLYVK.F
 2312.0664 2311.0591 2311.0582
                                                                 0.42
                                                                                    1 - 21
                                                                                                                         -.MARSADVVAMDCEMVGLGPFR.E
 No match to: 724.2539, 725.2472, 728.2482, 730.2519, 732.2390, 733.2623, 739.3115, 742.4642, 743.4729, 745.4483, 747.4419,
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  1725.8090, 1730.8199, 1748.7931, 1757.8975, 1763.7841, 1768.8075, 1771.9686, 1774.9059, 1777.8727, 1779.8081, 1786.8824, 1787.8207, 1790.8423, 1793.9556, 1796.8109, 1797.8339, 1800.8578, 1815.9008, 1819.8838, 1821.8926, 1822.9185, 1826.8450, 1829.8655, 1833.8975,
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   1968.8563, 1984.9392, 2008.0485, 2008.9869, 2009.9747, 2012.9506, 2015.9661, 2020.9644, 2030.0151, 2030.4648, 2047.5186, 2047.9097,
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  2184.0767, 2189.9133, 2194.9761, 2199.0986, 2205.9102, 2208.9729, 2211.1077, 2213.1116, 2214.1145, 2218.1018, 2221.1035, 2223.2205, 2225.1592, 2229.1064, 2233.1023, 2245.0991, 2273.0393, 2277.0576, 2279.1094, 2280.1204, 2283.1279, 2285.1169, 2292.1465, 2296.1479,
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  2409.1914, 2411.1907, 2414.1833, 2429.1475, 2436.1699, 2437.1758, 2440.2007, 2447.2368, 2477.1301, 2495.0542, 2498.0898, 2510.2229, 2522.1980, 2524.1689, 2527.2310, 2535.2598, 2541.2075, 2543.1907, 2544.1514, 2553.1934, 2557.2300, 2560.1125, 2569.2915, 2572.0935,
  2612.1936, 2686.3572, 2788.3362, 2963.6167, 3056.4641, 3058.5842, 3180.5432, 3313.5032, 3330.6311, 3347.6077, 3511.9668, 3761.1558
                                                                                                                                            Expect: 3.5e+002 Matches: 12
                                    Mass: 23052
  High mobility group protein B3 OS=Bos taurus GN=HMGB3 PE=2 SV=2
    Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide
| No match to: 742.42539 | No match to: 74.4251 | No match to: 74.42539 |
 1681.8087 1680.8014 1680.7752 15.6 11 - 24 1 --- K.GKMSAYAFFVQTCR.E + Oxidation (M)

No match to: 724.2539, 725.2472, 728.2482, 730.2519, 732.2390, 733.2623, 739.3115, 742.4642, 743.4729, 745.4483, 747.4419, 752.3972, 754.3827, 756.3716, 758.3382, 760.3329, 764.3364, 766.3494, 767.4740, 768.3865, 770.3671, 772.4178, 779.4436, 784.3415, 787.2366, 788.4225, 790.4196, 795.4260, 799.2464, 802.4372, 805.4478, 808.4353, 811.4178, 814.4170, 819.4304, 821.4247, 822.4321, 829.4457, 840.4623, 842.5109, 854.4525, 856.5045, 858.5442, 860.4092, 863.4233, 863.9185, 869.4846, 870.5100, 872.4994, 880.4412, 904.4929, 908.4577, 913.5685, 919.5024, 925.5089, 927.4999, 928.5031, 940.4773, 942.4820, 950.4946, 957.5654, 960.4840, 966.4929, 969.4786, 972.5046, 974.5551, 977.5352, 978.5240, 981.4474, 989.2700, 991.5198, 1001.5782, 1007.5089, 1009.5097, 1013.4454, 1015.5150, 1016.5522, 1018.5189, 1021.5313, 1024.5028, 1025.5192, 1029.5330, 1033.5739, 1035.5203, 1045.5564, 1046.5759, 1051.5024, 1056.5155, 1064.5282, 1024.5283, 1021.5313, 1024.5028, 1025.5192, 1029.5330, 1033.5739, 1035.5203, 1045.5564, 1046.5759, 1051.5024, 1056.5155, 1064.5282, 1024.5283, 1021.5313, 1024.5028, 1025.5192, 1029.5330, 1033.5739, 1035.5203, 1045.5564, 1046.5759, 1051.5024, 1056.5155, 1064.5282, 1024.5283, 1021.5313, 1024.5028, 1025.5192, 1029.5330, 1033.5739, 1035.5203, 1045.5564, 1046.5759, 1051.5024, 1056.5155, 1054.5282, 1024.5282, 1024.5282, 1024.5282, 1024.5282, 1024.6222, 1024.6202, 1024.6202, 1024.6202, 1024.6202, 1024.6202, 1024.6202, 1024.6202, 1024.6202, 1024.6202, 1024.6202, 1024.6202, 1024.6202, 1024.6202, 1024.6202, 1024.6202, 1024.6202, 1024.6202, 1024.6202, 1024.6202, 1024.6202, 1024.6202, 1024.6202, 1024.6202, 1024.6202, 1024.6202, 1024.6202, 1024.6202, 1024.6202, 1024.6202, 1024.6202, 1024.6202, 1024.6202, 1024.6202, 1024.6202, 1024.6202, 1024.6202, 1024.6202, 1024.6202, 1024.6202, 1024.6202, 1024.6202, 1024.6202, 1024.6202, 1024.6202, 1024.6202, 1024.6202, 1024.6202, 1024.6202, 1024.6202, 1024.6202, 1024.6202, 1024.6202, 1024.6202, 1024.6
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  2527.2310, 2535.2598, 2541.2075, 2543.1907, 2544.1514, 2553.1934, 2557.2300, 2560.1125, 2569.2915, 2572.0935, 2612.1936, 2686.3572, 2788.3362, 2963.6167, 3056.4641, 3058.5842, 3180.5432, 3313.5032, 3330.6311, 3347.6077, 3511.9668, 3761.1558
                                                                                     Score: 18
                                                                                                                                        Expect: 3.5e+002 Matches: 12
 I7FVA7 Mass: 23052
  HMGB3 transcript variant 1/2 OS=Bos taurus GN=HMGB3 PE=4 SV=1
| March | Marc
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11 - 24 1 --- K.GKMSAYAFFVQTCR.E + Oxidation (M)
1681.8087 1680.8014 1680.7752
                                                        15.6
No match to: 724.2539, 725.2472, 728.2482, 730.2519, 732.2390, 733.2623, 739.3115, 742.4642, 743.4729, 745.4483, 747.4419, 752.3972, 754.3827, 756.3716, 758.3382, 760.3329, 764.3364, 766.3494, 767.4740, 768.3865, 770.3671, 772.4178, 779.4436, 784.3415, 787.2366, 788.4225, 790.4196, 795.4260, 799.2464, 802.4372, 805.4478, 808.4353, 811.4178, 814.4170, 819.4304, 821.4247, 822.4321,
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Mascot: http://www.matrixscience.com/

MATRIX Mascot Search Results

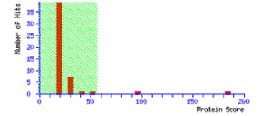
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Email : proteomics@ipatimup.pt
Search title : Project: Proteomica, Spot Set: Proteomica\12Jan2012, Label: G3, Spot Id: 221890, Peak List Id: 435351, MS Job Run Id: 303
MS data file : C:\Documents and Settings\Administrator\Desktop\xu\xu\xu\Proteomica\12Jan2012\typw_G3_146796935604.txt

Database : OrganismSpecie Bos_taurus_Reference_Proteome_2016_06 (24214 sequences; 12839866 residues)
Timestamp : 8 Jul 2016 at 10:11:59 GMT
Warning : A Peptide summary report will usually give a much clearer picture of MS/MS search results.
Top Score : 184 for Q95L54, Annexin A8 OS=Bos taurus GM=ANXA8 PE=2 SV=1

Mascot Score Histogram

Protein score is -10*Log(P), where P is the probability that the observed match is a random event. Protein scores greater than 56 are significant (p<0.05).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



Protein Summary Report



Index

	Accession	Mass	Score	Description
1.	Q95L54	36992	184	· · · · · · · · · · · · · · · · · · ·
	P19858	36916		L-lactate dehydrogenase A chain OS=Bos taurus GN=LDHA PE=2 SV=2
	P04272	38873		Annexin A2 OS=Bos taurus GN=ANXA2 PE=1 SV=2
	F1MK19	26274		L-lactate dehydrogenase OS=Bos taurus GN=LDHC PE=3 SV=1
	E1BNS9	36334		L-lactate dehydrogenase OS=Bos taurus GN=LDHC PE=3 SV=2
	E1BFB5	68315		Uncharacterized protein OS=Bos taurus GN=KIAA0391 PE=4 SV=2
	P09867	34289		Heterogeneous nuclear ribonucleoprotein Al OS=Bos taurus GN=HNRNPA1 PE=1 SV=2
	Q32LI7	30313		Putative uncharacterized protein MGC133880 OS=Bos taurus GN=MGC133880 PE=2 SV=1
9.	F6QVC9	36109	26	Annexin OS=Bos taurus GN=ANXA5 PE=1 SV=1
10.	E1BPX8	222520	26	Uncharacterized protein OS=Bos taurus GN=MYH7B PE=3 SV=2
11.	Q29RH6	55738	26	Chromosome 6 open reading frame 182 ortholog OS=Bos taurus GN=LOC519522 PE=2 SV=1
12.	Q2HJF2	26289	24	F-box and leucine-rich protein 22 OS=Bos taurus GN=FBXL22 PE=2 SV=1
13.	G5E523	28080	24	Uncharacterized protein OS=Bos taurus GN=STAU2 PE=4 SV=1
14.	F1N024	7899	24	Uncharacterized protein OS=Bos taurus GN=FAM19A4 PE=4 SV=1
15.	F1MS41	14310	24	Beta-synuclein OS=Bos taurus GN=SNCB PE=3 SV=2
16.	P81287	36124	24	Annexin A5 OS=Bos taurus GN=ANXA5 PE=1 SV=3
	E1BM24	57270	23	CCDC64B protein-like OS=Bos taurus GN=CCDC64B PE=4 SV=1
	F1MHM8	57999		Uncharacterized protein OS=Bos taurus GN=TIGD4 PE=4 SV=2
	P08057	24153	22	
	G3X720	22128		Uncharacterized protein OS=Bos taurus GN=C19orf81 PE=4 SV=1
	Q58DU0	26366		Multiple myeloma tumor-associated protein 2 homolog OS=Bos taurus GN=MMTAG2 PE=2 SV=1
	<u>Q28024</u>	8166		Guanine nucleotide-binding protein G(I)/G(S)/G(O) subunit gamma-12 OS=Bos taurus GN=GNG12 PE=1 SV=2
	E1BD03	66968		Uncharacterized protein OS=Bos taurus GN=PPM1D PE=3 SV=2
	F1N6S6	28266		Placental prolactin-related protein 3 OS=Bos taurus GN=PRP3 PE=3 SV=2
	F6QYE2	72629		Uncharacterized protein OS=Bos taurus GN=CFAP100 PE=4 SV=1
	G1K1U4	51632	20	
	G3MX17	200058		Uncharacterized protein OS=Bos taurus PE=3 SV=1
	G3N2D2 Q32PB1	41913		Testis-specific serine/threonine-protein kinase 1 OS=Bos taurus GN=TSSK1B PE=3 SV=1
	G3X7E1	14905 19619		Profilin-3 OS=Bos taurus GN=PFN3 PE=2 SV=1 Histone deacetylase complex subunit SAP18 OS=Bos taurus GN=SAP18 PE=4 SV=1
	Q58DQ3	32727		HISTORE GEORGETY ASSECTION OF THE SECOND OF
	P80311	23786	20	•
	G1K1R3	40420	20	
	E1B871	21420		Incharacterized protein OS=Bos taurus PE=3 SV=2
	A0JNC0	40548	20	
	F1MZ00	14021		Uncharacterized protein OS=Bos taurus GN=SNRPD3 PE=4 SV=2
	A3KMZ9	18849	19	
	P42899	11695	19	·
	Q0VCY7	27842		Serine/arginine-rich splicing factor 1 OS=Bos taurus GN=SRSF1 PE=2 SV=1
	Q0P5K9	54202		Chromosome 3 open reading frame 19 ortholog OS=Bos taurus GN=C22H3ORF19 PE=2 SV=1
41.	F1MB56	24689	19	Uncharacterized protein OS=Bos taurus GN=TEX35 PE=4 SV=1
42.	P61257	17248	19	60S ribosomal protein L26 OS=Bos taurus GN=RPL26 PE=2 SV=1
43.	Q861S4	18652	19	Similar to ribosomal protein L21 (Fragment) OS=Bos taurus GN=RPL21 PE=2 SV=1
44.	Q00361	8315	19	ATP synthase subunit e, mitochondrial OS=Bos taurus GN=ATP5I PE=1 SV=2
45.	F1N1S3	20635	19	Uncharacterized protein OS=Bos taurus GN=LOC100294792 PE=4 SV=2
	A5PK00	44048	19	Vacuolar protein-sorting-associated protein 36 OS=Bos taurus GN=VPS36 PE=2 SV=1
	A0JNH6	63280	19	
48.	G3MYC1	17221	19	Uncharacterized protein OS=Bos taurus PE=3 SV=1

Expect: 9.6e-015 Matches: 34

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Score: 184

Results List

Q95L54

Mass: 36992

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Annexin A8 OS=Bos taurus GN=ANXA8 PE=2 SV=1
 Observed Mr(expt)
                              Mr(calc)
                                           ppm Start
                                                      51 - 56 1 ---
                730.3945
                              730.3834
                                                                                   K.RSNAQR.Q
                                                      262 - 267
 772.4093
               771.4020
                              771.3989
                                             4.04
                                                                      0 ---
                                                                                  R.LYFAMK.G
                                                                       0 ---
 815.4332
               814.4260
                              814.4119
                                             17.2
                                                      209 - 215
                                                                                   R.SATHLMR.V
                                                                                   K.ELYDAMK.G
 869.4231
               868.4158
                              868.4000 18.2
                                                      101 - 107
                                                                      0 ---
 943 4289
               942.4216
                              942.4334 -12.55
                                                      216 - 222
                                                                                  R.VFEEYEK.I
1023.5663 1022.5590 1022.5583 0.72 201 - 208 0 --- K.FITILCTR.S
1023.5700 1022.5627 1022.5583 4.34 201 - 208 0 37 K.FITILCTR.S
                                                      201 - 208
1044.5751 1043.5678 1043.5862 -17.65
                                                      284 - 292 0 --- R.SEIDLNLIK.N
                                                                       0 --- K.GAGTLDGTLIR.N
1073.5902 1072.5829 1072.5877 -4.43
                                                      268 - 278
                                                      253 - 261 0 --- R.NLHGYFAER.L
52 - 61 1 --- R.SNAQRQQIAK.S
1106.5391 1105.5318 1105.5305
                                           1.22
1143.6318 1142.6245 1142.6156
                                                                      0 --- R.ILVCLLQGSR.D
0 --- K.EGVIIEILASR.T
                                                      158 - 167
1158.6685 1157.6612 1157.6591
                                             1.87
1199.7006 1198.6933
                            1198.6921
                                                      113 - 123
1231.6387 1230.6314 1230.6245
                                          5.67
                                                       6 - 16
                                                                      0 --- K.AWVEQEGVSVK.G
                                                                       1 --- R.TKNQLQEIMK.A
1 --- R.YEAKELYDAMK.G
1232.6447 1231.6374 1231.6594 -17.86
1360.6638 1359.6565 1359.6380 13.6
                                                                      0 --- R.LIIALMYPPYR.Y + Oxidation (M)
1 --- R.VFEEYEKIANK.S
1365.7379 1364.7306 1364.7526 -16.10
1369.7043 1368.6970 1368.6925
                                           3.31
1505.8177 1504.8104 1504.8110
                                           -0.38
                                                                      2 --- R.SNAQRQQIAKSFK.A
                                                                       1 --- R.SEIDLNLIKNOFK.K
1561.8401 1560.8328 1560.8511 -11.72
                                                                      0 --- K.GIGTNEQAIIDVLTK.R
2 --- R.SEIDLNLIKNQFKK.M
1571.8400 1570.8327 1570.8566 -15.22
                                                       36 - 50
1689.9465 1688.9392 1688.9461 -4.06
1730.8931 1729.8858 1729.8556
                                            17.5
                                                      234 - 249
                                                                      0 --- K.SETHGSLEEAMLTVVK.C
                                                      134 - 148
1774.7610 1773.7537 1773.7581
                                           -2.44
                                                                       0 --- K.AYEEDYGSNLEEDIK.A
                                                      17 - 32 0 --- K.GSPHFNPDPDAETLYK.A
17 - 32 0 85 K.GSPHFNPDPDAETLYK.A
1787.8188 1786.8115 1786.8162
                                            -2.63
1787.8200 1786.8127 1786.8162 -1.96
                                                      86 - 100 1 --- R.LIIALMYPPYRYEAK.E
86 - 100 1 --- R.LIIALMYPPYRYEAK.E + Oxidation (M)
1840.9827 1839.9754 1839.9957 -10.99
1856.9908 1855.9835 1855.9906 -3.80
1933.9950 1932.9877 1932.9556
                                             16.6 1 - 16 1 --- -.MAWWKAWVEQEGVSVK.G
0.86 1 - 16 1 --- -.MAWWKAWVEQEGVSVK.G + Oxidation (M)
1949.9595 1948.9522 1948.9505
1973.9845 1972.9772 1972.9420 17.8 193 - 208 1 --- K.ICGTDEMKFITILCTR.S + Oxidation (M) 2277.0823 2276.0750 2276.0983 -10.21 250 - 267 2 --- K.CTRNLHGYFAERLYFAMK.G
2284.1990 2283.1917 2283.2295 -16.53
                                                       36 - 56 2 ---
                                                                                  K.GIGTNEOAIIDVLTKRSNAOR.O
                                                      134 - 157
                                                                      1 ---
2767.2666 2766.2593 2766.2144
                                                                                  K.AYEEDYGSNLEEDIKADTSGYLER.I
                                            16.3
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3312.3306, 3916.9434
P19858 Mass: 36916
                               Score: 98
                                                   Expect: 4.1e-006 Matches: 29
L-lactate dehydrogenase A chain OS=Bos taurus GN=LDHA PE=2 SV=2
 Observed
               Mr(expt) Mr(calc)
                                           ppm Start End Miss Ions Peptide
-6.05 113 - 118 0 --- R.NVNIF
 734 4151
                733 4078
                              733.4123
                                                                                  R NVNTEK F
                                           -7.42
                                                      107 - 112
 742.4515
               741.4442
                              741.4497
                                                                      0 ---
                                                                                   R.LNLVQR.N
 768.3700
               767.3627
                              767.3636 -1.12
                                                      172 - 177
                                                                      0 25
                                                                                  R.YLMGER.L
                              767.3636 3.65 172 - 177 0 ---
783.3585 3.82 172 - 177 0 ---
 768.3737
               767.3664
                                                                                  R.YLMGER.L
 784.3688
               783.3615
                                                                                  R.YLMGER.L + Oxidation (M)
                                                      91 - 99 0 22 R.LVIITAGAR.Q
                              912.5756 -14.15
 913.5700
               912.5627
 913.5747
                912.5674
                              912.5756 -9.06
                                                        91 - 99
                                                                      0 ---
                                                                                  R.LVIITAGAR.O
 918.5050
               917.4977
                              917.5083 -11.51
                                                      150 - 157
                                                                                  K.ISGFPKNR.V
                                                                      0 ---
1041.5658 1040.5585 1040.5688
                                          -9.92
                                                       270 - 278
                                                                                  R.VHPISTMIK.G + Oxidation (M)
1118.5818 1117.5745 1117.5768
                                            -2.01
                                                      319 - 328 0 --- K.SADTLWGIQK.E
1181.6819 1180.6746 1180.6750
                                            -0.35
                                                       269 - 278
                                                                      1 --- R.RVHPISTMIK.G
```

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1197.6704 1196.6631 1196.6700 -5.71 269 - 278 1 --- R.RYHPISTMIK.G + Oxidation (M) 1248.6174 1247.6101 1247.5928 13.9 158 - 169 0 --- R.VIGSGCNLDSAR.F 1250.6554 1249.6481 1249.6554 -5.83 233 - 243 0 --- K.QVVDSAYEVIK.L
1250.6554 1249.6481 1249.6554 -5.83 233 - 243 0 --- K.QVVDSAYEVIK.L

1523.7953 1522.7880 1522.7740 9.24 77 - 90 1 --- K.IVSGKDYNVTANSR.L

1551.7778 1550.7705 1550.7624 5.26 158 - 171 1 --- R.VGSGCNLDSARFR.Y

1556.8109 1555.8036 1555.8066 -1.94 100 - 112 1 --- R.QDEGESRLMLVQR.N

1557.8010 1556.7937 1556.7868 4.44 306 - 318 1 --- K.VTLTHEEBACLKK.S

1633.7985 1632.7912 1632.7752 9.80 60 - 73 0 --- K.GEMMDLQHGSLFIR.T

1677.7988 1676.7915 1676.7815 5.99 43 - 57 0 --- K.DLADEVALVDVMEDK.L + Oxidation (M)

1727.8986 1726.8913 1726.9326 -23.88 91 - 106 1 --- R.LVIITAGARQQEGESR.L

1821.9144 1820.9071 1820.9064 0.40 156 - 171 2 --- K.NRVIGSGCNLDSARFR.Y

1874.9695 1873.9622 1873.9542 4.26 58 - 73 1 --- K.LKGEMMDLQHGSLFIR.T

1880.9265 1879.9192 1879.9064 6.81 213 - 228 1 --- K.NLHPELGTDADKEQWK.A

1906.9501 1905.9428 1905.9441 -0.66 58 - 73 1 --- K.LKGEMMDLQHGSLFIR.T + 2 Oxidation (M)

1918.9587 1917.9514 1917.9605 -4.73 43 - 59 1 --- K.LGEMMDLQHGSLFIR.T + 2 Oxidation (M)

1960.0034 1958.9961 1958.9706 13.0 60 - 76 1 --- K.GEMMDLQHGSLFIR.T

2233.0984 2232.0911 2232.1395 -21.66 58 - 76 2 --- K.LKGEMMDLQHGSLFIR.TF.K.I + 2 Oxidation (M)

No match to: 721.4365, 725.4001, 726.4063, 728.3681, 730.3848, 731.4017, 732.3573, 735.4143, 741.4101, 73
  No match to: 721.4365, 725.4001, 726.4063, 728.3681, 730.3848, 731.4017, 732.3573, 735.4143, 741.4101, 744.4171, 745.4167, 746.4169, 747.4125, 750.4153, 752.4127, 755.4100, 756.4199, 757.4313, 761.4177, 767.4266, 770.3966, 772.4093, 775.4307, 779.4308, 786.4000, 787.4221, 788.4210, 792.4376, 795.4350, 798.4351, 800.4296, 812.4388, 815.4332, 822.4482, 825.4540, 831.4382, 832.4557, 835.4719, 837.4463, 842.5060, 844.4760, 854.4837, 856.4911, 860.4691, 862.4852, 869.4231, 885.4465, 905.4955, 907.4991, 908.4929,
   916.5284, 919.5053, 922.5070, 928.5117, 934.5172, 940.4840, 942.4854, 943.4289, 943.5453, 946.5259, 950.4959, 951.5076, 953.5164, 954.5388, 959.5266, 966.5410, 969.5256, 972.5305, 974.5395, 976.5310, 978.5314, 979.5442, 991.5409, 993.5307, 1001.5854, 1003.5496,
   1011.5262, 1014.5215, 1021.5579, 1023.5663, 1023.5700, 1031.5903, 1035.5381, 1036.5447, 1037.5573, 1039.5327, 1044.5751, 1045.5729, 1046.5897, 1051.5448, 1056.5658, 1057.6078, 1067.5753, 1073.5902, 1086.5509, 1092.5961, 1100.6071, 1106.5391, 1111.5615, 1113.5729,
   1120.6045, 1122.5912, 1123.5848, 1125.5823, 1132.6047, 1134.5714, 1139.5746, 1143.6318, 1144.6497, 1145.6407, 1147.6393, 1150.6108, 1155.6215, 1157.6199, 1158.6685, 1162.6182, 1163.6152, 1168.6215, 1173.6418, 1175.6089, 1178.6356, 1179.6157, 1188.6544, 1199.7006,
   1208.6415, 1216.6714, 1227.6595, 1231.6387, 1232.6447, 1234.6672, 1235.6445, 1244.6453, 1247.6211, 1255.6096, 1256.6531, 1261.6592, 1262.6453, 1266.6777, 1273.6260, 1275.6362, 1276.6343, 1277.6531, 1301.7079, 1303.7076, 1307.7042, 1308.6376, 1310.6146, 1312.6418,
   1315.7098, 1320.6659, 1322.6886, 1323.6771, 1324.6964, 1328.7089, 1331.7202, 1335.7318, 1338.6581, 1339.6637, 1349.7253, 1352.7205,
   1356.7230, 1360.6638, 1363.7153, 1365.7379, 1367.7319, 1369.7043, 1377.6947, 1379.7268, 1383.7137, 1385.7534, 1388.7404, 1390.7284, 1393.7428, 1407.7563, 1417.7010, 1421.7061, 1422.7019, 1425.7727, 1427.7742, 1429.7365, 1431.7412, 1433.7228, 1434.7446, 1437.7584,
   1461.7778, 1467.7521, 1472.7633, 1475.7632, 1477.7545, 1484.7889, 1488.7537, 1491.7965, 1493.7579, 1500.7737, 1505.8177, 1513.8079, 1515.8213, 1517.7854, 1519.7544, 1522.7811, 1529.8099, 1530.7523, 1531.7472, 1537.7974, 1539.8005, 1542.8422, 1545.8091, 1547.8051,
    1549.7339, 1553.8065, 1555.8101, 1561.8401, 1563.8109, 1565.8199, 1571.8400, 1579.7939, 1580.8077, 1583.8444, 1587.7620, 1592.8066,
   1594.8335, 1604.8323, 1605.8586, 1608.8497, 1615.8754, 1624.8062, 1628.7900, 1628.7921, 1640.9384, 1642.8099, 1646.8297, 1649.8447, 1657.8101, 1667.8622, 1680.8746, 1689.9465, 1694.7288, 1698.9225, 1699.8862, 1704.8773, 1706.8701, 1707.8302, 1710.9279, 1716.8671,
   1719.9058, 1723.9011, 1725.8300, 1725.8346, 1730.8931, 1737.9006, 1751.8656, 1754.8580, 1765.8463, 1766.8040, 1767.8138, 1769.8741, 1770.3567, 1772.9315, 1774.7610, 1774.9131, 1777.8770, 1780.8777, 1783.9246, 1787.8188, 1787.8200, 1791.8137, 1793.9050, 1795.9353,
   1798.9340, 1800.9336, 1804.9142, 1805.9069, 1809.8469, 1815.9044, 1828.9227, 1837.9396, 1840.9827, 1843.9688, 1844.9012, 1846.9153, 1852.9364, 1856.9908, 1861.8881, 1867.9218, 1884.9417, 1891.9622, 1894.9313, 1896.9078, 1896.9100, 1900.9546, 1905.9313, 1908.9043,
    1911.9130, 1912.9154, 1916.9923, 1921.9825, 1923.9718, 1925.9573, 1928.0469, 1932.0060, 1933.9950, 1937.9630, 1939.9740, 1944.0040,
   1946.9679, 1949.9595, 1954.0236, 1955.9738, 1958.9556, 1968.8600, 1973.9845, 1976.9861, 1978.9910, 1981.9854, 1983.9884, 1987.9784, 1995.9408, 1998.9894, 2000.9926, 2008.0460, 2012.9590, 2015.0104, 2017.9747, 2021.0170, 2026.0275, 2027.0256, 2031.0166, 2044.0123,
   2047.4957, 2047.9515, 2052.0496, 2060.0520, 2062.0073, 2064.9880, 2066.9873, 2094.0376, 2097.0454, 2102.0667, 2103.1641, 2111.0305,
   2127.0930, 2139.0630, 2144.0493, 2155.0950, 2156.0796, 2160.0632, 2176.0664, 2190.9895, 2195.0774, 2199.0723, 2202.1624, 2203.1221,
   2208.0862, 2211.1042, 2216.1062, 2225.1274, 2226.1272, 2229.0972, 2239.0225, 2242.0435, 2268.1489, 2270.1287, 2271.1294, 2277.0823,
   2284.1990, 2292.1426, 2309.0994, 2334.1719, 2342.9915, 2350.1746, 2383.9607, 2398.2400, 2400.0862, 2413.0549, 2414.1897, 2417.0959, 2497.2800, 2501.2637, 2511.1460, 2513.1421, 2528.1750, 2537.2012, 2541.1948, 2542.1836, 2556.2058, 2562.1487, 2612.2666, 2706.2109,
   2717.0869, 2767.2666, 2888.2532, 3221.1733, 3224.2917, 3312.3306, 3916.9434
   P04272
                            Mass: 38873
                                                                     Score: 52
                                                                                                                  Expect: 0.17 Matches: 29
   Annexin A2 OS=Bos taurus GN=ANXA2 PE=1 SV=2

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss
        Ions

        744.4171
        743.4098
        743.4178
        -10.74
        206 - 212
        1
        ---

                                                                                                     ppm Start End Miss Ions Peptide
                                                                                                                                                                                      R.KGTDVPK.W
                                                                                                                        280 - 286
    761.4177
                                    760.4104
                                                                    760.4191 -11.44
                                                                                                                                                                                      K.GKGTRDK.V
                                                                    778.4337 -13.11 303 - 308
    779.4308
                                    778.4235
                                                                                                                                                                                      K.IRSEFK.K
 1035.5381 1034.5308 1034.5219 8.64 213 - 220 0 --- K.WISIMTER.S
1036.5447 1035.5374 1035.5349 2.44 197 - 205 1 --- R.DLYDAGVKR.K
1036.5447 1035.5374 1035.5349 2.44 197 - 205 1 --- K.DLIDAGVAR.K
1051.5448 1050.5375 1050.5168 19.7 213 - 220 0 --- K.WISIMTER.S + Oxidation (M)
1086.5509 1085.5436 1085.5539 -9.49 2 - 10 0 --- M.STVHEILCK.L
1111.5615 1110.5542 1110.5458 7.59 69 - 77 0 --- R.QDIAFAYQR.R
1244.6453 1243.6380 1243.6156 18.0 136 - 145 0 --- R.TNQELQEINR.V
1339.6637 1338.6564 1338.6416 11.1 158 - 169 1 --- K.DIVSDTSGDFRK.L
1407.7563 1406.7490 1406.7261 16.3 291 - 302 1 --- R.IMVSRSEVDMLK.I
1407.7563 1406.7490 1406.7261 16.3 291 - 302 1 --- R.IMVSRSEVDMLK.I
1421.7061 1420.6988 1420.6874 8.02 314 - 324 0 --- K.SLYYYIQQDTK.G
1542.8422 1541.8349 1541.8413 -4.15 50 - 63 0 --- K.GVDEVTIVNILTNR.S
1725.8300 1724.8227 1724.8230 -0.17 64 - 77 1 21 R.SNEQRQDIAFAYQR.R
1725.8346 1724.8273 1724.8230 2.50 64 - 77 1 --- R.SNEQRQDIAFAYQR.R
1769.8741 1768.8668 1768.8672 -0.20 311 - 324 1 --- K.YGKSLYYYIQQDTK.G
1777.8770 1776.8697 1776.8564 7.52 120 - 135 0 --- K.GLGTDEDSLIEIICSR.T
1844.9012 1843.8939 1843.8952 -0.69 11 - 28 0 --- K.JSLEGDHSTPFSAYGSVK.A
1867.9218 1866.9145 1866.9073 3.87 232 - 246 2 --- R.YKSYSPYDMLESIKK.E + Oxidation (M)
1908.9043 1907.8970 1907.8748 11.6 180 - 196 0 --- K.SLSLEGDHSTPSAYGSVK.G
1925.9573 1924.9500 1915.9601 13.0 234 - 249 2 --- K.SYSPYDMLESIKKEVK.G
1925.9573 1924.9500 1924.9378 6.35 153 - 169 2 --- K.SLYYYIQQDTK.G
1255.0950 2011.9517 2011.9527 -0.48 314 - 329 1 --- K.SLYYYIQQDTKGDAR.D
1255.0950 2154.0877 2154.0593 13.2 29 - 47 1 --- K.AYTNFDAERDALNIETAIK.T
1215.0774 2194.0701 2194.0609 4.18 116 - 135 1 --- K.ASMKGLGTDEDSLIEIICSR.T + Oxidation (M)
2271.1294 2270.1221 2270.0929 12.9 228 - 245 2 --- K.VFERYKSYSPYDMLESIK.K + Oxidation (M)
  2271.1294 2270.1221 2270.0929
                                                                                                   12.9 228 - 245 2 --- K.VFERYKSYSPYDMLESIK.K + Oxidation (M)
  2501.2637 2500.2564 2500.2567
                                                                                                                        207 - 227
                                                                                                                                                                                     K.GTDVPKWISIMTERSVCHLQK.V + Oxidation (M)
                                                                                                   -0.09
   No match to: 721.4365, 725.4001, 726.4063, 728.3681, 730.3848, 731.4017, 732.3573, 734.4151, 735.4143, 741.4101, 742.4515, 745.4167, 746.4169, 747.4125, 750.4153, 752.4127, 755.4100, 756.4199, 757.4313, 767.4266, 768.3700, 768.3737, 770.3966, 772.4093, 775.4307, 784.3688, 786.4000, 787.4221, 788.4210, 792.4376, 795.4350, 798.4351, 800.4296, 812.4388, 815.4332, 822.4482, 825.4540,
   831.4382, 832.4557, 835.4719, 837.4463, 842.5060, 844.4760, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79.505, 79
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 1181.6819, 1188.6544, 1197.6704, 1199.7006, 1208.6415, 1216.6714, 1227.6595, 1231.6387, 1232.6447, 1234.6672, 1235.6445, 1247.6211,
  1248.6174, 1250.6554, 1255.6096, 1256.6531, 1261.6592, 1262.6453, 1266.6777, 1273.6260, 1275.6362, 1276.6343, 1277.6531, 1301.7079,
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 1545.8091, 1547.8051, 1549.7339, 1551.7778, 1553.8065, 1555.8101, 1556.8109, 1557.8010, 1561.8401, 1563.8109, 1565.8199, 1571.8400, 1579.7939, 1580.8077, 1583.8444, 1587.7620, 1592.8066, 1594.8335, 1604.8323, 1605.8586, 1608.8497, 1615.8754, 1624.8062, 1628.7900,
 1628.7921, 1633.7985, 1640.9384, 1642.8099, 1646.8297, 1649.8447, 1657.8101, 1667.8622, 1677.7988, 1680.8746, 1689.9465, 1694.7288, 1698.9225, 1699.8862, 1704.8773, 1706.8701, 1707.8302, 1710.9279, 1716.8671, 1719.9058, 1723.9011, 1727.8986, 1730.8931, 1737.9006,
  1751.8656,
 1751.8656, 1754.8580, 1765.8463, 1766.8040, 1767.8138, 1770.3567, 1772.9315, 1774.7610, 1774.9131, 1780.8777, 1783.9246, 1787.8188, 1787.8200, 1791.8137, 1793.9050, 1795.9353, 1798.9340, 1800.9336, 1804.9142, 1805.9069, 1809.8469, 1815.9044, 1821.9144, 1828.9227,
  1837.9396, 1840.9827, 1843.9688, 1846.9153, 1852.9364, 1856.9908, 1861.8881, 1874.9695, 1880.9265, 1884.9417, 1891.9622, 1894.9313
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  1933.9950, 1937.9630, 1939.9740, 1944.0040, 1946.9679, 1949.9595, 1954.0236, 1955.9738, 1958.9556, 1960.0034, 1968.8600, 1973.9845,
 1976.9861, 1978.9910, 1981.9854, 1983.9884, 1987.9784, 1995.9408, 1998.9894, 2000.9926, 2008.0460, 2015.0104, 2017.9747, 2021.0170,
 2026.0275, 2027.0256, 2031.0166, 2044.0123, 2047.4957, 2047.9515, 2052.0496, 2060.0520, 2062.0073, 2066.9873, 2094.0376, 2097.0454,
 2102.0667, 2103.1641, 2111.0305, 2127.0930, 2139.0630, 2144.0493, 2148.1023, 2156.0796, 2160.0632, 2176.0664, 2190.9895, 2199.0723, 2202.1624, 2203.1221, 2208.0862, 2216.1062, 2225.1274, 2226.1272, 2229.0972, 2233.0984, 2239.0225, 2242.0435, 2268.1489, 2270.1287,
 2277.0823, 2284.1990, 2292.1426, 2309.0994, 2334.1719, 2342.9915, 2350.1746, 2383.9607, 2398.2400, 2400.0862, 2413.0549, 2414.1897, 2417.0959, 2497.2800, 2511.1460, 2513.1421, 2528.1750, 2537.2012, 2541.1948, 2542.1836, 2556.2058, 2562.1487, 2612.2666, 2706.2109,
 2717.0869, 2767.2666, 2888.2532, 3221.1733, 3224.2917, 3312.3306, 3916.9434
                                                                                            Expect: 1.7 Matches: 13
 L-lactate dehydrogenase OS=Bos taurus GN=LDHC PE=3 SV=1
                                                                              ppm Start End Miss Ions Peptide
                           Mr(expt) Mr(calc)
                                                                           17.0 172 - 177
-7.42 107 - 112
                            720.4292
                                                      720.4170
                                                                                                                           0 ---
                            741.4442
                                                     741.4497
                                                                                                                                                  R.LNLVQR.N
742.4515 741.4442 741.4497 -7.42 107 - 112 0 --- R.LNLVQR.N
913.5700 912.5627 912.5756 -14.15 91 - 99 0 22 K.LVIITAGAR.Q
913.5747 912.5674 912.5756 -9.06 91 - 99 0 --- K.LVIITAGAR.Q
1248.6174 1247.6101 1247.5928 13.9 158 - 169 0 --- R.VIGSGONLDSAR.F
1519.7544 1518.7471 1518.7725 -16.71 229 - 241 2 --- K.NIHKEVVGRAHME.-
1551.7778 1550.7705 1550.7624 5.26 158 - 171 1 --- R.VIGSGONLDSARR.Y
1556.8109 1555.8036 1555.8066 -1.94 100 - 112 1 --- R.VIGSGONLDSARR.Y
1615.8754 1614.8681 1614.8352 20.4 43 - 57 0 --- K.DLADELALVDVVTDK.L
1727.8986 1726.8913 1726.9326 -23.88 91 - 106 1 --- K.LVIITAGARQQEGESR.L
1777.8770 1776.8697 1776.8530 9.41 213 - 228 2 --- K.SLDPKLGSDSDKDSWK.N
1856.9908 1855.9835 1856.0143 -16.56 43 - 59 1 --- K.LDLADELALVDVVTDKLK.G
2044.0123 2043.0050 2043.0531 -23.54 150 - 169 1 --- K.LSGLPATRVIGSGONLDSARR.F.

No match to: 725.4001, 726.4063, 728.3681, 730.3848, 731.4017, 732.3573, 734.4151, 735.
  742 4515
2043.0050 2043.0050 2043.0050 2043.0051 -23.34 150 - 169 1 --- K.ISBERAIRVIGSCKNEDSAK:

No match to: 725.4001, 726.4063, 728.3681, 730.3848, 731.4017, 732.3573, 734.4151, 735.4143, 741.4101, 744.4171, 745.4167, 746.4169, 747.4125, 750.4153, 752.4127, 755.4100, 756.4199, 757.4313, 761.4177, 767.4266, 768.3700, 768.3737, 770.3966, 772.4093, 775.4307, 779.4308, 784.3688, 786.4000, 787.4221, 788.4210, 792.4376, 795.4350, 798.4351, 800.4296, 812.4388, 815.4332, 822.4482, 825.4546, 831.4382, 832.4557, 835.4719, 837.4463, 842.5060, 844.4760, 854.4837, 856.4911, 860.4691, 862.4852, 869.4231, 885.4465, 905.4955, 907.4991, 908.4929, 916.5284, 918.5050, 919.5053, 922.5070, 928.5117, 934.5172, 940.4840, 942.4854, 943.4289, 943.5453, 946.5259, 950.4959, 951.5076, 953.5164, 954.5388, 959.5266, 966.5410, 969.5256, 972.5305, 974.5395, 976.5310, 978.5314, 979.5442, 981.5407, 983.5377, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854, 1001.5854,
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 1173.6418, 1175.6089, 1178.6356, 1179.6157, 1181.6819, 1188.6544, 1197.6704, 1199.7006, 1208.6415, 1216.6714, 1227.6595, 1231.6387, 1232.6447, 1234.6672, 1235.6445, 1244.6453, 1247.6211, 1250.6554, 1255.6096, 1256.6531, 1261.6592, 1262.6453, 1266.6777, 1273.6260,
  1275.6362, 1276.6343, 1277.6531, 1301.7079, 1303.7076, 1307.7042, 1308.6376, 1310.6146, 1312.6418, 1315.7098, 1320.6659, 1322.6886,
 1323.6771, 1324.6964, 1328.7089, 1331.7202, 1335.7318, 1338.6581, 1339.6637, 1349.7253, 1352.7205, 1356.7230, 1360.6638, 1363.7153,
  1365.7379, 1367.7319, 1369.7043, 1377.6947, 1379.7268, 1383.7137, 1385.7534, 1388.7404, 1390.7284, 1393.7428, 1407.7563, 1417.7010,
 1421.7061, 1422.7019, 1425.7727, 1427.7742, 1429.7365, 1431.7412, 1433.7228, 1434.7446, 1437.7584, 1461.7778, 1467.7521, 1472.7633, 1475.7632, 1477.7545, 1484.7889, 1488.7537, 1491.7965, 1493.7579, 1500.7737, 1505.8177, 1513.8079, 1515.8213, 1517.7854, 1522.7811,
  1523.7953, 1529.8099, 1530.7523, 1531.7472, 1537.7974, 1539.8005, 1542.8422, 1545.8091, 1547.8051,
                                                                                                                                                                                                                                        1549.7339, 1553.8065,
 1557.8010, 1561.8401, 1563.8109, 1565.8199, 1571.8400, 1579.7939, 1580.8077, 1583.8444, 1587.7620, 1592.8066, 1594.8335, 1604.8323,
                           1608.8497, 1624.8062, 1628.7900, 1628.7921, 1633.7985, 1640.9384, 1642.8099, 1646.8297,
                                                                                                                                                                                                                                        1649.8447, 1657.8101,
 1677.7988, 1680.8746, 1689.9465, 1694.7288, 1698.9225, 1699.8862, 1704.8773, 1706.8701, 1707.8302, 1710.9279, 1716.8671, 171723.9011, 1725.8300, 1725.8346, 1730.8931, 1737.9006, 1751.8656, 1754.8580, 1765.8463, 1766.8040, 1767.8138, 1769.8741, 1787.8188, 1769.8741, 1787.8188, 1769.8741, 1787.8188, 1769.8741, 1787.8188, 1769.8741, 1787.8188, 1789.8741, 1787.8188, 1789.8741, 1787.8188, 1789.8741, 1787.8188, 1789.8741, 1787.8188, 1789.8741, 1787.8188, 1789.8741, 1787.8188, 1789.8741, 1787.8188, 1789.8741, 1787.8188, 1789.8741, 1787.8188, 1789.8741, 1787.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188, 1789.8188
                                                                                                                                                                                                                                                                                           1719.9058.
 1772.9315, 1774.7610, 1774.9131, 1780.8777, 1783.9246, 1787.8188, 1787.8200, 1791.8137, 1793.9050, 1795.9353, 1798.9340, 1800.9336, 1804.9142, 1805.9069, 1809.8469, 1815.9044, 1821.9144, 1828.9227, 1837.9396, 1840.9827, 1843.9688, 1844.9012, 1846.9153, 1852.9364,
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 1908.9043, 1911.9130, 1912.9154, 1916.9923, 1918.9587, 1921.9825, 1923.9718, 1925.9573, 1928.0469, 1932.0060, 1933.9950, 1937.9630,
  1939.9740, 1944.0040, 1946.9679, 1949.9595, 1954.0236, 1955.9738, 1958.9556, 1960.0034, 1968.8600, 1973.9845, 1976.9861, 1978.9910,
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 2103.1641, 2111.0305, 2127.0930, 2139.0630, 2144.0493, 2148.1023, 2155.0950, 2156.0796, 2160.0632, 2176.0664, 2190.9895, 2195.0774, 2199.0723, 2202.1624, 2203.1221, 2208.0862, 2211.1042, 2216.1062, 2225.1274, 2226.1272, 2229.0972, 2233.0984, 2239.0225, 2242.0435,
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 2400.0862, 2413.0549, 2414.1897, 2417.0959, 2497.2800, 2501.2637, 2511.1460, 2513.1421, 2528.1750, 2537.2012, 2541.1948, 2542.1836, 2556.2058, 2562.1487, 2612.2666, 2706.2109, 2717.0869, 2767.2666, 2888.2532, 3221.1733, 3224.2917, 3312.3306, 3916.9434
 E1BNS9 Mass: 36334
                                                        Score: 34
                                                                                           Expect: 9.6 Matches: 13
 L-lactate dehydrogenase OS=Bos taurus GN=LDHC PE=3 SV=2

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss
        Ions
        Peptide

        721.4365
        720.4292
        720.4170
        17.0
        17.2
        17.7
        0
        ---
        R.YLIGQI

        742.4515
        741.4442
        741.4497
        -7.42
        107
        -
        112
        0
        ---
        R.LNLVQI

                                                                                  17.0 172 - 177 0 --- R.YLIGQK.L
                                                                                                                                                  R.LNLVQR.N
742.4515 741.4442 741.4447 -7.42 107 - 112 0 --- R.LNIVQR.N
913.5700 912.5627 912.5756 -14.15 91 - 99 0 22 K.LVIITAGAR.Q
913.5747 912.5674 912.5756 -9.06 91 - 99 0 --- K.LVIITAGAR.Q
1248.6174 1247.6101 1247.5928 13.9 158 - 169 0 --- R.VIGSGCNLDSAR.F
1261.6592 1260.6519 1260.6826 -24.35 318 - 328 1 --- K.KSASTLWNVQK.D
1551.7778 1550.7705 1550.7624 5.26 158 - 171 1 --- R.VIGSGCNLDSARFR.Y
1556.8109 1555.8036 1555.8066 -1.94 100 - 112 1 --- R.QGEGESRINLVQR.N
1615.8754 1614.8681 1614.8352 20.4 43 - 57 0 --- K.DLADELALVDVYTDK.L
1727.8986 1726.8913 1726.9326 -23.88 91 - 106 1 --- K.LVIITAGARQQEGESR.L
1777.8770 1776.8697 1776.8530 9.41 213 - 228 2 --- K.SLDPKLGSDSDKSWK.N
1855.9988 1855.9835 1856.0143 - 16.56 43 - 59 1 --- K.DLADELALVDVYTDKLK.G
                                                                                                43 - 59 1 --- K.DLADELALVDVVTDKLK.G
150 - 169 1 --- K.LSGLPATRVIGSGCNLDSAR.F
 1856.9908 1855.9835 1856.0143 -16.56
2044.0123 2043.0050 2043.0531 -23.54
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No match to: 725.4001, 726.4063, 728.3681, 730.3848, 731.4017, 732.3573, 734.4151, 735.4143, 741.4101, 744.4171, 745.4167, 746.4169, 747.4125, 750.4153, 752.4127, 755.4100, 756.4199, 757.4313, 761.4177, 767.4266, 768.3700, 768.3737, 770.3966, 772.4093, 775.4307, 779.4308, 784.3688, 786.4000, 787.4221, 788.4210, 792.4376, 795.4350, 798.4351, 800.4296, 812.4388, 815.4332, 822.4482,
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  946.5259, 950.4959, 951.5076, 953.5164, 954.5388, 959.5266, 966.5410, 969.5256, 972.5305, 974.5395, 976.5310, 978.5314, 979.5442, 991.5409, 993.5307, 1001.5854, 1003.5496, 1011.5262, 1014.5215, 1021.5579, 1023.5663, 1023.5700, 1031.5903, 1035.5381, 1036.5447,
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  1477.7545, 1484.7889, 1488.7537, 1491.7965, 1493.7579, 1500.7737, 1505.8177, 1513.8079, 1515.8213, 1517.7854, 1519.7544, 1522.7811,
  1523.7953, 1529.8099, 1530.7523, 1531.7472, 1537.7974, 1539.8005, 1542.8422, 1545.8091, 1547.8051, 1549.7339, 1553.8065, 1555.8101, 1557.8010, 1561.8401, 1563.8109, 1565.8199, 1571.8400, 1579.7939, 1580.8077, 1583.8444, 1587.7620, 1592.8066, 1594.8335, 1604.8323,
  1605.8586, 1608.8497, 1624.8062, 1628.7900, 1628.7921, 1633.7985, 1640.9384, 1642.8099, 1646.8297, 1649.8447, 1657.8101, 1667.8622, 1677.7988, 1680.8746, 1689.9465, 1694.7288, 1698.9225, 1699.8862, 1704.8773, 1706.8701, 1707.8302, 1710.9279, 1716.8671, 1719.9058,
   1723.9011, 1725.8300, 1725.8346, 1730.8931, 1737.9006, 1751.8656, 1754.8580, 1765.8463, 1766.8040,
                                                                                                                                                                                                          1767.8138, 1769.8741,
  1772.9315, 1774.7610, 1774.9131, 1780.8777, 1783.9246, 1787.8188, 1787.8200, 1791.8137, 1793.9050, 1795.9353, 1798.9340, 1800.9336, 1804.9142, 1805.9069, 1809.8469, 1815.9044, 1821.9144, 1828.9227, 1837.9396, 1840.9827, 1843.9688, 1844.9012, 1846.9153, 1852.9364,
  1861.8881, 1867.9218, 1874.9695, 1880.9265, 1884.9417, 1891.9622, 1894.9313, 1896.9078, 1896.9100, 1900.9546, 1905.9313, 1906.9501, 1908.9043, 1911.9130, 1912.9154, 1916.9923, 1918.9587, 1921.9825, 1923.9718, 1925.9573, 1928.0469, 1932.0060, 1933.9950, 1937.9630,
  1939.9740, 1944.0040, 1946.9679, 1949.9595, 1954.0236, 1955.9738, 1958.9556, 1960.0034, 1968.8600, 1973.9845, 1976.9861, 1978.9910, 1981.9854, 1983.9884, 1987.9784, 1995.9408, 1998.9894, 2000.9926, 2008.0460, 2012.9590, 2015.0104, 2017.9747, 2021.0170, 2026.0275,
  2027.0256, 2031.0166, 2047.4957, 2047.9515, 2052.0496, 2060.0520, 2062.0073, 2064.9880, 2066.9873, 2094.0376, 2097.0454, 2102.0667
  2103.1641, 2111.0305, 2127.0930, 2139.0630, 2144.0493, 2148.1023, 2155.0950, 2156.0796, 2160.0632, 2176.0664, 2190.9895, 2195.0774,
  2199.0723, 2202.1624, 2203.1221, 2208.0862, 2211.1042, 2216.1062, 2225.1274, 2226.1272, 2229.0972, 2233.0984, 2239.0225, 2242.0435,
  2268.1489, 2270.1287, 2271.1294, 2277.0823, 2284.1990, 2292.1426, 2309.0994, 2334.1719, 2342.9915, 2350.1746, 2383.9607, 2398.2400, 2400.0862, 2413.0549, 2414.1897, 2417.0959, 2497.2800, 2501.2637, 2511.1460, 2513.1421, 2528.1750, 2537.2012, 2541.1948, 2542.1836,
  2556.2058, 2562.1487, 2612.2666, 2706.2109, 2717.0869, 2767.2666, 2888.2532, 3221.1733, 3224.2917, 3312.3306, 3916.9434
                    Mass: 68315
                                                  Score: 33
                                                                                Expect: 13 Matches: 21
  Uncharacterized protein OS=Bos taurus GN=KIAA0391 PE=4 SV=2
                                                                   ppm Start End Miss Ions
   Observed Mr(expt) Mr(calc)
   837.4463
                         836.4390
                                                836.4392
                                                                    -0.23 220 - 226 0 ---
                                                                                                                                R.GLIYTDR.W
   972 5305
                        971 5232
                                               971 5400 -17 22
                                                                                    387 - 394
                                                                                                                               K.TTPOELKR.F
| 1023.5663 | 1022.5590 | 1022.5583 | 0.73 | 496 - 503 | 1 | --- | K.FITKDLMR.D | |
| 1023.5700 | 1022.5627 | 1022.5583 | 4.35 | 496 - 503 | 1 | 20 | K.FITKDLMR.D |
| 1113.5729 | 1112.5656 | 1112.5913 | -23.09 | 577 - 584 | 2 | --- | K.WLCLHRKT.- |
| 1139.5746 | 1138.5673 | 1138.5441 | 20.4 | 42 - 50 | 1 | --- | R.NQEKCFSVK.T |
| 1162.6182 | 1161.6109 | 1161.5924 | 15.9 | 96 - 105 | 2 | --- | K.KRSQMNPSSK.D |
| 1179.6157 | 1178.6084 | 1178.6196 | -9.51 | 220 - 228 | 1 | --- | R.GLIYTDRWR.E |
| 1425.7727 | 1424.7654 | 1424.7446 | 14.6 | 208 - 219 | 1 | --- | K.RLESGAYTLLMR.G + Oxidation (M) |
| 1472.7633 | 1471.7560 | 1471.7466 | 6.38 | 447 - 457 | 2 | --- | K.HMLTQNSRWR.R + Oxidation (M) |
| 1484.7889 | 1483.7816 | 1483.7579 | 16.0 | 448 - 458 | 2 | --- | K.HMLTQNSRWR.V |
| 1500.7737 | 1499.7664 | 1499.7528 | 9.10 | 448 - 458 | 2 | --- | K.HMLTQNSRWR.V + Oxidation (M) |
| 1539.8005 | 1538.7932 | 1538.7623 | 20.1 | 504 - 516 | 2 | --- | R.DHKACLPDAKTQR.L |
| 1594.8335 | 1593.8262 | 1593.8014 | 15.6 | 1 | 13 | 1 | --- | K.APENWILLQWVK.C |
| 1783.9246 | 1782.9173 | 1782.9305 | -7.38 | 401 - 416 | 0 | --- | K.YHPPFDVVIDGLNVAK.M |
| 1795.9353 | 1794.9280 | 1794.9185 | 5.28 | 191 - 205 | 1 | --- | K.QVSADSSHMFAAGAAKKR.S |
| 1861.8881 | 1860.8808 | 1860.9264 | -24.51 | 80 - 97 | 2 | --- | K.QVSADSSHMFAAGAAKKR.S |
| 1928.0469 | 1927.0336 | 1926.9986 | 21.3 | 152 - 169 | 1 | --- | K.RUGEKFSVKTMSAQNTK.A |
 1023.5663 1022.5590 1022.5583 0.73
                                                                                    496 - 503
                                                                                                                               K.FITKDLMR.D
 1928.0469 1927.0396 1926.9986 21.3 152 - 169 1 --- K.CHSSVDVAKSVLAWVAAK.N
2000.9926 1999.9853 1999.9455 19.9 42 - 58 2 --- R.NQEKCFSVKTMSAQNTK.A
2501.2637 2500.2564 2500.3188 -24.96 170 - 190 1 --- K.NSGIVGYDLLVKYLYLCVFHK.Q
 2501.2637 2500.2564 2500.3188 -24.96 170 - 190 1 --- K.NSGIVGYDLLWYKYLCVFHK.Q

No match to: 721.4365, 725.4001, 726.4063, 728.3681, 730.3848, 731.4017, 732.3573, 734.4151, 735.4143, 741.4101, 742.4515,

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  1092.5961, 1100.6071, 1106.5391, 1111.5615, 1118.5818, 1120.6045, 1122.5912, 1123.5848, 1125.5823, 1132.6047, 1134.5714, 1143.6318, 1144.6497, 1145.6407, 1147.6393, 1150.6108, 1155.6215, 1157.6199, 1158.6685, 1163.6152, 1168.6215, 1173.6418, 1175.6089, 1178.6356,
  1181.6819, 1188.6544, 1197.6704, 1199.7006, 1208.6415, 1216.6714, 1227.6595, 1231.6387, 1232.6447, 1234.6672, 1235.6445, 1244.6453, 1247.6211, 1248.6174, 1250.6554, 1255.6096, 1256.6531, 1261.6592, 1262.6453, 1266.6777, 1273.6260, 1275.6362, 1276.6343, 1277.6531,
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  1331.7202, 1335.7318, 1338.6581, 1339.6637, 1349.7253, 1352.7205, 1356.7230, 1360.6638, 1363.7153, 1365.7379, 1367.7319, 1369.7043, 1377.6947, 1379.7268, 1383.7137, 1385.7534, 1388.7404, 1390.7284, 1393.7428, 1407.7563, 1417.7010, 1421.7061, 1422.7019, 1427.7742,
  1429.7365, 1431.7412, 1433.7228, 1434.7446, 1437.7584, 1461.7778, 1467.7521, 1475.7632, 1477.7545, 1488.7537, 1491.7965, 1493.7579, 1505.8177, 1513.8079, 1515.8213, 1517.7854, 1519.7544, 1522.7811, 1523.7953, 1529.8099, 1530.7523, 1531.7472, 1537.7974, 1542.8422,
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   1640.9384, 1642.8099, 1646.8297, 1649.8447, 1657.8101, 1667.8622, 1677.7988, 1680.8746, 1689.9465, 1694.7288, 1698.9225, 1699.8862
  1704.8773, 1706.8701, 1707.8302, 1710.9279, 1716.8671, 1719.9058, 1723.9011, 1725.8300, 1725.8346, 1727.8986, 1730.8931, 1737.9006,
   1751.8656, 1754.8580, 1765.8463, 1766.8040, 1767.8138, 1769.8741, 1770.3567, 1772.9315, 1774.7610, 1774.9131, 1777.8770, 1780.8777,
  1787.8188, 1787.8200, 1791.8137, 1793.9050, 1798.9340, 1800.9336, 1804.9142, 1805.9069, 1809.8469, 1815.9044, 1821.9144, 1828.9227, 1837.9396, 1840.9827, 1843.9688, 1844.9012, 1846.9153, 1852.9364, 1856.9908, 1867.9218, 1874.9695, 1880.9265, 1884.9417, 1891.9622,
  1894.9313, 1896.9078, 1896.9100, 1900.9546, 1905.9313, 1906.9501, 1908.9043, 1911.9130, 1912.9154, 1916.9923, 1918.9587, 1921.9825, 1923.9718, 1925.9573, 1932.0060, 1933.9950, 1937.9630, 1939.9740, 1944.0040, 1946.9679, 1949.9595, 1954.0236, 1955.9738, 1958.9556,
  1960.0034, 1968.8600, 1973.9845, 1976.9861, 1978.9910, 1981.9854, 1983.9884, 1987.9784, 1995.9408, 1998.9894, 2008.0460, 2012.9590,
  2015.0104, 2017.9747, 2021.0170, 2026.0275, 2027.0256, 2031.0166, 2044.0123, 2047.4957, 2047.9515, 2052.0496, 2060.0520, 2062.0073, 2064.9880, 2066.9873, 2094.0376, 2097.0454, 2102.0667, 2103.1641, 2111.0305, 2127.0930, 2139.0630, 2144.0493, 2148.1023, 2155.0950,
  2156.0796, 2160.0632, 2176.0664, 2190.9895, 2195.0774, 2199.0723, 2202.1624, 2203.1221, 2208.0862, 2211.1042, 2216.1062, 2225.1274, 2226.1272, 2229.0972, 2233.0984, 2239.0225, 2242.0435, 2268.1489, 2270.1287, 2271.1294, 2277.0823, 2284.1990, 2292.1426, 2309.0994,
  2334.1719, 2342.9915, 2350.1746, 2383.9607, 2398.2400, 2400.0862, 2413.0549, 2414.1897, 2417.0959, 2497.2800, 2511.1460, 2513.1421, 2528.1750, 2537.2012, 2541.1948, 2542.1836, 2556.2058, 2562.1487, 2612.2666, 2706.2109, 2717.0869, 2767.2666, 2888.2532, 3221.1733,
  3224.2917, 3312.3306, 3916.9434
  P09867
                     Mass: 34289
                                                                                Expect: 20 Matches: 18
```

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Heterogeneous nuclear ribonucleoprotein A1 OS=Bos taurus GN=HNRNPA1 PE=1 SV=2
    Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide
                                                                                                                    48 - 53 1 ---
| 1312.6418 | 1311.6345 | 1311.6069 | 21.1 | 219 - 232 | 1 --- | R.GGNFSGRGGFGGSR.G |
| 1427.7742 | 1426.7669 | 1426.7416 | 17.8 | 4 - 15 | 2 --- | K.SESPKEPEQLRK.L |
| 1437.7584 | 1436.7511 | 1436.7372 | 9.70 | 93 - 105 | 0 --- | R.EDSQRPGAHLTVK.K |
| 1547.8051 | 1546.7978 | 1546.8025 | -3.01 | 131 - 144 | 1 --- | K.IEVIEIMTDRGSGK.K |
| 1563.8109 | 1562.8036 | 1562.7974 | 3.99 | 131 - 144 | 1 --- | K.IEVIEIMTDRGSGK.K |
| 1563.8109 | 1564.8126 | 1564.8321 | -12.47 | 93 - 106 | 1 --- | R.EDSQRPGAHLTVKK.I |
| 1580.8077 | 1579.8004 | 1579.7624 | 24.1 | 180 - 194 | 1 --- | K.ALSKQEMASASSQR.G |
| 1628.7900 | 1627.7827 | 1627.7743 | 5.17 | 285 - 300 | 0 --- | R.SGPYGGGGYFAKPR.N |
| 1694.7288 | 1693.7215 | 1693.6928 | 16.9 | 301 - 318 | 0 --- | R.NQGGYGGSSSSSSYGGR.R |
| 1793.9050 | 1792.8977 | 1792.8849 | 7.13 | 180 - 196 | 2 --- | K.ALSKQEMASASSQRGR.S |
| 1809.8469 | 1808.8396 | 1808.8799 | -22.25 | 180 - 196 | 2 --- | K.ALSKQEMASASSQRGR.S |
| 1809.8460 | 2007.0387 | 2007.0538 | -7.49 | 106 - 122 | 2 --- | K.KIFYGGIKEDTEEHHLR.D |
| 2012.9590 | 2011.9517 | 2012.0010 | -24.49 | 167 - 183 | 2 --- | K.YHTYNGHNCEVRKALSK.Q |
| 2537.2012 | 2536.1939 | 2536.1475 | 18.3 | 32 - 52 | 1 --- | R.SGSPFGGGRGGGGGGGGGGGNDNFGRGGNFSGR.G |
| No match to: 721.4365, 725.4001, 726.4063, 728.3681, 731.4017, 732.3573, 734.4151, 735.4143, 741.4101, 7
                                                                                                                      219 - 232 1 ---
  1312 6418 1311 6345 1311 6069
                                                                                                   21 1
                                                                                                                                                                                   R GGNESGRGGEGGSR G
 No match to: 721.4365, 725.4001, 726.4063, 728.3681, 731.4017, 732.3573, 734.4151, 735.4143, 741.4101, 742.4515, 744.4171, 745.4167, 746.4169, 747.4125, 750.4153, 752.4127, 755.4100, 756.4199, 757.4313, 761.4177, 767.4266, 768.3700, 768.3737, 770.3966, 772.4093, 775.4307, 779.4308, 784.3688, 786.4000, 787.4221, 788.4210, 792.4376, 795.4350, 798.4351, 800.4296, 812.4388, 815.4332, 822.4482, 825.4540, 831.4382, 832.4557, 835.4719, 837.4463, 842.5060, 844.4760, 854.4837, 856.4911, 860.4691, 862.4852, 869.4231, 885.4465, 905.4955, 907.4991, 908.4929, 913.5700, 913.5747, 916.5284, 918.5050, 919.5053, 922.5070, 928.5117, 934.5172, 940.4840, 942.4854, 943.4289, 943.5453, 946.5259, 950.4959, 951.5076, 953.5164, 954.5388, 959.5266, 966.5410, 969.5256, 972.5305, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974.5395, 974
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  1315.7098, 1320.6659, 1322.6886, 1323.6771, 1324.6964, 1328.7089, 1331.7202, 1335.7318, 1338.6581, 1339.6637, 1349.7253, 1352.7205, 1356.7230, 1360.6638, 1363.7153, 1365.7379, 1367.7319, 1369.7043, 1377.6947, 1379.7268, 1383.7137, 1385.7534, 1388.7404, 1390.7284,
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    1519.7544, 1522.7811, 1523.7953, 1529.8099, 1530.7523, 1531.7472, 1537.7974, 1539.8005, 1542.8422, 1545.8091, 1549.7339, 1551.7778
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  1680.8746, 1689.9465, 1698.9225, 1699.8862, 1704.8773, 1706.8701, 1707.8302, 1710.9279, 1716.8671, 1719.9058, 1723.9011, 1725.8300,
   1725.8346, 1727.8986, 1730.8931, 1737.9006, 1751.8656, 1754.8580, 1765.8463, 1766.8040, 1767.8138, 1769.8741, 1770.3567, 1772.9315,
  1774.7610, 1774.9131, 1777.8770, 1780.8777, 1783.9246, 1787.8188, 1787.8200, 1791.8137, 1795.9353, 1798.9340, 1800.9336, 1804.9142, 1805.9069, 1815.9044, 1821.9144, 1828.9227, 1837.9396, 1840.9827, 1843.9688, 1844.9012, 1846.9153, 1852.9364, 1856.9908, 1861.8881,
    1867.9218, 1874.9695, 1880.9265, 1884.9417, 1891.9622, 1894.9313, 1896.9078, 1896.9100, 1900.9546, 1905.9313, 1906.9501, 1908.9043,
  1911.9130, 1912.9154, 1916.9923, 1918.9587, 1921.9825, 1923.9718, 1925.9573, 1928.0469, 1932.0060, 1933.9950, 1937.9630, 1939.9740, 1944.0040, 1946.9679, 1949.9595, 1954.0236, 1955.9738, 1958.9556, 1960.0034, 1968.8600, 1973.9845, 1976.9861, 1978.9910, 1981.9854,
  1987.9784, 1995.9408, 1998.9894, 2000.9926, 2015.0104, 2017.9747, 2021.0170, 2026.0275, 2027.0256, 2031.0166, 2044.0123, 2047.4957, 2047.9515, 2052.0496, 2060.0520, 2062.0073, 2064.9880, 2066.9873, 2094.0376, 2097.0454, 2102.0667, 2103.1641, 2111.0305, 2127.0930,
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  2417.0959, 2497.2800, 2501.2637, 2511.1460, 2513.1421, 2528.1750, 2541.1948, 2542.1836, 2556.2058, 2562.1487, 2612.2666, 2717.0869, 2767.2666, 2888.2532, 3221.1733, 3224.2917, 3312.3306, 3916.9434
 Q32LI7
                           Mass: 30313
                                                                         Score: 29
                                                                                                                 Expect: 32 Matches: 17
  Putative uncharacterized protein MGC133880 OS=Bos taurus GN=MGC133880 PE=2 SV=1

        Observed
832.4557
        Mr (expt)
831.4485
        Mr (calc)
831.4338
        ppm
17.7
        Start
259 - 265
        I ---
102.5570
        K.ALDEKEK.S

        1021.5579
        1020.5506
        1020.5465
        4.08
        97 - 105
        1 ---
67
        I ---
102.556.096
        K.ALDEKEK.S

        1118.5818
        1117.5745
        1117.5476
        24.1
        57 - 67
        1 ---
67
        I ---
8.KATGEALEGGK.R

        1255.6096
        1254.6023
        1254.6105
        -6.54
        240 - 249
        1 ---
8.KATGEALEGGK.R

        1383.7137
        1382.7064
        1382.7055
        0.68
        239 - 249
        2 ---
9.58
        R.KTDDLGRWHQK.N

        1393.7428
        1392.7355
        1392.7222
        9.58
        97 - 108
        2 ---
9.58
        R.KYDDLGRWHQK.N

        1642.8099
        1641.8026
        1641.7868
        9.66
        246 - 258
        1 ---
239
        R.WHQKNAMNMNLQK.A

        1777.8770
        1776.8642
        3.08
        145 - 160
        0 ---
40.6
        K.FGSNVVDQLVSEEQAR.K

        1884.9417
        1883.9344
        1883.927
        3.86
        106 - 122
        2 ---
40.6
        K.FGSNVVDQLVSEEQAR.A

        1908.99043
        1907.8970
        1907.9080
        -5.77
        2
                                  Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide
    Observed
 2277.0823 2276.0750 2276.0894
                                                                                               -6.30
                                                                                                                      123 - 144
                                                                                                                                                                                  K.EDPNAGAQGQSGSSIPNNIRHK.F
  No match to: 721.4365, 725.4001, 726.4063, 728.3681, 730.3848, 731.4017, 732.3573, 734.4151, 735.4143, 741.4101, 742.4515,
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                                                                              Expect: 58 Matches: 18
 F6QVC9
                   Mass: 36109
                                                Score: 26
 Annexin OS=Bos taurus GN=ANXA5 PE=1 SV=1
  Observed
                        Mr (expt)
                                              Mr(calc)
                                                                  ppm Start End Miss Ions Peptide
                        830.4309
                                              830.4385
                                                                                 64 - 70 0 --- R.DLLDDLK.S
                        853.4764
                                              853.4882 -13.82
                                                                                   202 - 208
                                                                                                                              R.SVSHLRR.V
                                                                                   51 - 58 0 ---
                        953.5315
                                              953.5335 -2.01
                                                                                                           0 --- K.FITIFGTR.S
 1001.5854 1000.5781 1000.5917 -13.54 109 - 117 0 --- K.VLTEIIASR.T
1001.5854 1000.5781 1000.5781 1000.5917 -13.54 109 - 117 0 --- K.Vheelaskii
1014.5215 1013.5142 1013.5069 7.20 90 - 97 0 --- R.LyDayelk.H
1122.5912 1121.5839 1121.5717 10.9 277 - 285 0 --- R.SEIDLYNIR.K
1250.6554 1249.6481 1249.6666 -14.79 277 - 286 1 --- R.SEIDLYNIR.E
1276.6343 1275.6270 1275.6169 7.93 291 - 301 0 --- K.NFGTSLYSMIK.G + Oxidation (M)
1275.6343 1275.6270 1275.6169 7.93 291 - 301 0 --- K.NFGTSLYSMIK.G + Oxidation (M)
1310.6146 1309.6073 1309.5939 10.2 7 - 18 0 --- R.GTVADFPGFDER.A
1388.7404 1387.7331 1387.7169 11.7 290 - 301 1 --- R.KNFGTSLYSMIK.G
1461.7778 1460.7705 1460.7735 -2.07 46 - 58 1 --- R.SNAQRQEIAVAFK.T
1704.8773 1703.8700 1703.8941 -14.15 30 - 45 0 --- K.GLGTDEESILTLLTSR.S
1710.9279 1709.9206 1709.9247 -2.36 152 - 166 1 --- R.MLVVLLQANRDPDAR.I
2066.9873 2065.9800 2065.9705 4.61 7 - 25 1 --- R.GTVADFPGFDERADAETLR.K
2195.0774 2194.0701 2194.0655 2.13 7 - 26 2 --- R.GTVADFPGFDERADAETLR.K
2203.1221 2202.1148 2202.0804 15.6 167 - 186 0 --- R.IDEAQVEQDAQALFQAGELK.W
2292.1426 2291.1353 2291.1144 9.14 209 - 227 1 --- R.VFDKYMTISGFQIEETIDR.E

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  2767.2666, 2888.2532, 3221.1733, 3224.2917, 3312.3306, 3916.9434
                   Mass: 222520 Score: 26
                                                                             Expect: 64 Matches: 54
 E1BPX8
 Uncharacterized protein OS=Bos taurus GN=MYH7B PE=3 SV=2

        Mr (calc)
        ppm
        Start
        End Miss Ions
        Peptide

        724.4092
        -22.65
        1850
        - 1854
        2
        ---
        R.KHERR

  Observed
                        Mr (expt.)
                        724.3928
  747.4125
                        746.4052
                                              746.4109 -7.60
                                                                                  666 - 671
                                                                 3.37 1228 - 1233 1 ---
  761.4177
                        760.4104
                                              760.4079
                                                                                                                               K.EKSELR.M
                                              830.4498 -22.71 869 - 877 0 ---
831.4338 17.7 1530 - 1536 0 ---
859.4763 -16.82 927 - 933 1 ---
                        830.4309
                                                                                                                                R.GALATAEAK.R
                        831.4485
                                                                                                                               K.SVOELEK.A
                        859.4618
                                                                                                                                K.VKELSER.L
  913.5700
                        912 5627
                                              912.5756 -14.15 792 - 799 0 10 K.VLTLLQAR.S
                                              913.5747
                        912.5674
                                                                                                                                K.VLTLLQAR.S
                                                                                                                               R.ATSAAAALDK.K
  918.5050
                        917.4977
                                              921.4920 8.37 1484 - 1491 0 ---
942.5498 -12.45 1819 - 1826 1 ---
  922.5070
                        921.4997
                                                                                                                               R.SLGTELFR.L
  943.5453
                        942.5381
                                                                                                                               K.QVQKLEAK.V
                                              965.5519 -18.77 1453 - 1459
  966.5410
                        965.5337
                                                                                                                                K.KORHLER.A
  974.5395
                        973.5323
                                              973.5556 -23.99 1792 - 1799
                                                                                                                               K.KTLEQTVR.E
                                                                    16.7 1530 - 1538
                                                                                                            1 ---
 1031.5903
                      1030.5830 1030.5658
                                                                                                                                K.SVOELEKAK.K
                                                                     17.5 434 - 441
 1041.5658
                                                                                                                                K.ATYDRLFR.W
                      1040.5585 1040.5403
 1046.5897 1045.5824 1045.5767
                                                                  5.44 1443 - 1453
                                                                                                            1 ---
                                                                                                                                R.ATSAAAAIDKK.O
 1057.6078 1056.6005 1056.6179 -16.43 1569 - 1577 0 ---
                                                                                                                               R.IOLELSOVK.A
```

R.EQAQALERR.A

24.0 1677 - 1685 1 ---

1100.6071 1099.5998 1099.5734

```
1157.6199 1156.6126 1156.6312 -16.08 1140 - 1149 2 ---
                                                                                                 R.VEKQRAEAAR.E
1158.6685 1157.6612 1157.6404
                                                 18.0 1578 - 1587
                                                                                                 K.AEVDRKLAEK.D
1275.6362 1274.6289 1274.6466 -13.86 972 - 982 2 ---
1301.7079 1300.7006 1300.7252 -18.86
                                                              275 - 285 1 ---
                                                                                                 K.SRVIFQLPGER.G
1315.7098 1314.7025 1314.7118 -7.07 356 - 367 0 ---
                                                                                                 K.IVGALLHFGNMK.F + Oxidation (M)
                                1319.6755 -12.78 1872 - 1882
                                                                                                 R.MQDLVDKLQSK.V + Oxidation (M)
1320.6659 1319.6586
1437.7584 1436.7511 1436.7398 7.86 262 - 274 0 ---
                                                                                                 K.LASADIDSYLLEK.S
                                                 19.2 1827 - 1839 1 --- K.VRELEAELDAEQK.K
24.3 1766 - 1779 1 --- K.AITDAAMMAEELKK.E + Oxidation (M)
1529.8099 1528.8026 1528.7733
1537.7974 1536.7901 1536.7527
1557.8010 1556.7937 1556.8158 -14.17 1708 - 1720
                                                                                                R.RLAEOELLEATER.L
1633.7985 1632.7912 1632.7889 1.41 1584 - 1596 2 ---
                                                                                                K.LAEKDEECTNLRR.N
1649.8447 1648.8374 1648.8528
                                                  -9.30 1765 - 1779 2 ---
                                                                                                 K.KAITDAAMMAEELKK.E
1680.8746 1679.8673 1679.8730 -3.36 262 - 276 1 --- K.LASADIDSYLLEKSR.V
1699.8862 1698.8789 1698.8988 -11.69
                                                              666 - 679
                                                                                                 K.LMTNLRATQPHFVR.C + Oxidation (M)
1716.8671 1715.8598 1715.8802 -11.87 1601 - 1616 1 ---
                                                                                                 R.AVESLQASLDAETRAR.N
1774.9131 1773.9058 1773.9407 -19.65 1868 - 1882 2 ---
1791.8137 1790.8064 1790.8509 -24.83 732 - 747 0 ---
                                                                                                 K.NLARMQDLVDKLQSK.V + Oxidation (M)
                                                                                                 R.ILNPSAIPDDTFMDSR.K
1800.9336 1799.9263 1799.9489 -12.55 1706 - 1720
                                                                                                 R.SRRLAEQELLEATER.L
1805.9069 1804.8996 1804.9067 -3.92 1857 - 1871
                                                                                                 K.ELAYQAEEDRKNLAR.M
1840.9827 1839.9754 1840.0166 -22.39 1643 - 1659
                                                                                                 R.QATEAQAATRLLQAQLK.E
1894.9313 1893.9240 1893.8955 15.0 1383 - 1398 1 ---
                                                                                                K.YEADAIORTEELEEAK.K
1911.9130 1910.9057 1910.9156 -5.17 1626 - 1642 0 ---
1981.9854 1980.9781 1980.9736 2.28 351 - 367 1 ---
                                                                                                 K.MEGDLNDLELQLGHATR.O
                                                                                                 K.CACYKIVGALLHFGNMK.F
1961.9634 1960.9761 1960.9786 2.26 351 - 367 1 ---
2031.0166 2030.0093 2030.0168 -3.66 1063 - 1081 1 ---
2044.0123 2043.0050 2042.9756 14.4 1118 - 1134 1 ---
2052.0496 2051.0423 2051.0534 -5.41 1829 - 1846 2 ---
2060.0520 2059.0447 2059.0922 -23.07 1492 - 1508 2 ---
                                                                                                 K.LEGDLKLTQESVADAAQDK.Q
                                                                                                 K.ELOARAEELEEELEAER.A
                                                                                                 R.ELEAELDAEOKKHAEALK.G
                                                                                                 R. LRHSHEEALEALETLRR.E
2064.9880 2063.9807 2064.0157 -16.95 174 - 193 1 ---
2111.0305 2110.0232 2110.0153 3.75 730 - 747 1 ---
                                                                                                 R.ENOSMLITGESGAGKTVNTK.R
                                                                                                R.YRILNPSAIPDDTFMDSR.K
2148.1023 2147.0950 2147.0528 19.7 1230 - 1248 1 --- K.SELRMEVDDLSANVETLAR.G
2160.0632 2159.0559 2159.0481 3.64 1546 - 1565 0 --- K.SELQAALEEAEGALELEETK.T
2270.1287 2269.1214 2269.0822 17.3 893 - 912 0 --- K.NDLALQLQAEQENLADAEER.C
2292.1426 2291.1353 2291.1678 -14.19 985 - 1004 2 --- K.NLTEEMAALDESVVRLTKEK.K
                                                                                                 K.NLTEEMAALDESVVRLTKEK.K + Oxidation (M)
2334.1719 2333.1646 2333.1532 4.88 1234 - 1255 2 ---
2350.1746 2349.1673 2349.1482 8.16 1234 - 1255 2 ---
2706.2109 2705.2036 2705.2099 -2.33 1346 - 1367 1 ---
                                                                                                 R MEVDDI.SANVETLARGKASAEK I.
                                                                                                 R.MEVDDLSANVETLARGKASAEK.L + Oxidation (M)
                                                                                                 R.HDCDLLREOHEEEAEAOAELOR.L
2706.2109 2705.2036 2705.2099 -2.33 1346 - 1367 1 --- R.HDCDLIREQHEEERAQAELQR.I

No match to: 721.4365, 726.4063, 728.3681, 730.3848, 731.4017, 732.3573, 734.4151, 735.4143, 741.4101, 742.4515, 744.4171, 745.4167, 746.4169, 750.4153, 752.4127, 755.4100, 756.4199, 757.4313, 767.4266, 768.3700, 768.3737, 770.3966, 772.4093, 775.4307, 779.4308, 784.3688, 786.4000, 787.4221, 788.4210, 792.4376, 795.4350, 798.4351, 800.4296, 812.4388, 815.4332, 822.4482, 825.4540, 835.4719, 837.4463, 842.5060, 844.4760, 854.4837, 856.4911, 862.4852, 869.4231, 885.4465, 905.4955, 907.4991, 908.4929, 916.5284, 919.5053, 928.5117, 934.5172, 940.4840, 942.4854, 943.4289, 946.5259, 950.4959, 951.5076, 953.5164, 954.5388, 959.5266, 969.5256, 972.5305, 976.5310, 978.5314, 979.5442, 991.5409, 993.5307, 1001.5854, 1003.5496, 1011.5262, 1014.5215, 1021.5579, 1023.5663, 1023.5700, 1035.5381, 1036.5447, 1037.5573, 1039.5327, 1044.5751, 1045.5729, 1051.5448, 1056.5658, 1067.5753, 1073.5902, 1086.5509, 1002.5612, 1106.5291, 1111.5615, 1113.5779, 1113.5774, 1113.5774, 1139.5746
1092.5961, 1106.5391, 1111.5615, 1113.5729, 1118.5818, 1120.6045, 1122.5912, 1123.5848, 1125.5823, 1132.6047, 1134.5714, 1139.5746, 1143.6318, 1144.6497, 1145.6407, 1147.6393, 1150.6108, 1155.6215, 1162.6182, 1163.6152, 1168.6215, 1173.6418, 1175.6089, 1178.6356,
 1179.6157, 1181.6819, 1188.6544, 1197.6704, 1199.7006, 1208.6415, 1216.6714, 1227.6595, 1231.6387, 1232.6447, 1234.6672, 1235.6445, 1244.6453, 1247.6211, 1248.6174, 1250.6554, 1255.6096, 1256.6531, 1261.6592, 1262.6453, 1266.6777, 1273.6260, 1276.6343, 1277.6531,
 1303.7076, 1307.7042, 1308.6376, 1310.6146, 1312.6418, 1322.6886, 1323.6771, 1324.6964, 1328.7089, 1331.7202, 1335.7318, 1338.6581,
 1339.6637, 1349.7253, 1352.7205, 1356.7230, 1360.6638, 1363.7153, 1365.7379, 1367.7319, 1369.7043, 1377.6947, 1379.7268, 1383.7137, 1385.7534, 1388.7404, 1390.7284, 1393.7428, 1407.7563, 1417.7010, 1421.7061, 1422.7019, 1425.7727, 1427.7742, 1429.7365, 1431.7412,
 1433.7228, 1434.7446, 1461.7778, 1467.7521, 1472.7633, 1475.7632, 1477.7545, 1484.7889, 1488.7537, 1491.7965, 1493.7579, 1505.8177, 1513.8079, 1515.8213, 1517.7854, 1519.7544, 1522.7811, 1523.7953, 1530.7523, 1531.7472, 1539.8005, 1542.8422, 1545.8091,
 1547.8051, 1549.7339, 1551.7778, 1553.8065, 1555.8101, 1556.8109, 1561.8401, 1563.8109, 1565.8199, 1571.8400, 1579.7939, 1580.8077, 1583.8444, 1587.7620, 1592.8066, 1594.8335, 1604.8323, 1605.8586, 1608.8497, 1615.8754, 1624.8062, 1628.7900, 1628.7921, 1640.9384,
 1642.8099, 1646.8297, 1657.8101, 1667.8622, 1677.7988, 1689.9465, 1694.7288, 1698.9225, 1704.8773, 1706.8701, 1707.8302,
 1719.9058, 1723.9011, 1725.8300, 1725.8346, 1727.8986, 1730.8931, 1737.9006, 1751.8656, 1754.8580, 1765.8463, 1766.8040, 1767.8138,
 1769.8741, 1770.3567, 1772.9315, 1774.7610, 1777.8770, 1780.8777, 1783.9246, 1787.8188, 1787.8200, 1793.9050, 1795.9353, 1798.9340,
 1804.9142, 1809.8469, 1815.9044, 1821.9144, 1828.9227, 1837.9396, 1843.9688, 1844.9012, 1846.9153, 1852.9364, 1856.9908, 1861.8881, 1867.9218, 1874.9695, 1880.9265, 1884.9417, 1891.9622, 1896.9078, 1896.9100, 1900.9546, 1905.9313, 1906.9501, 1908.9043, 1912.9154,
 1916.9923,
 1916.9923, 1918.9587, 1921.9825, 1923.9718, 1925.9573, 1928.0469, 1932.0060, 1933.9950, 1937.9630, 1939.9740, 1944.0040, 1946.9679, 1949.9595, 1954.0236, 1955.9738, 1958.9556, 1960.0034, 1968.8600, 1973.9845, 1976.9861, 1978.9910, 1983.9884, 1987.9784, 1995.9408,
 1998.9894, 2000.9926, 2008.0460, 2012.9590, 2015.0104, 2017.9747, 2021.0170, 2026.0275, 2027.0256, 2047.4957, 2047.9515, 2062.0073,
 2066.9873, 2094.0376, 2097.0454, 2102.0667, 2103.1641, 2127.0930, 2139.0630, 2144.0493, 2155.0950, 2156.0796, 2176.0664, 2190.9895,
 2195.0774, 2199.0723, 2202.1624, 2203.1221, 2208.0862, 2211.1042, 2216.1062, 2225.1274, 2226.1272, 2229.0972, 2233.0984, 2239.0225,
2242.0435, 2268.1489, 2271.1294, 2277.0823, 2284.1990, 2309.0994, 2342.9915, 2383.9607, 2398.2400, 2400.0862, 2413.0549, 2414.1897, 2417.0959, 2497.2800, 2501.2637, 2511.1460, 2513.1421, 2528.1750, 2537.2012, 2541.1948, 2542.1836, 2556.2058, 2562.1487, 2612.2666,
 2717.0869, 2767.2666, 2888.2532, 3221.1733, 3224.2917, 3312.3306, 3916.9434
            Mass: 55738
                                      Score: 26
                                                            Expect: 68 Matches: 24
 Chromosome 6 open reading frame 182 ortholog OS=Bos taurus GN=LOC519522 PE=2 SV=1
                  Mr(expt) Mr(calc)
                                                 ppm Start End Miss Ions Peptide
  775.4307
                  774.4235
                                   774.4309
                                                   -9.67
                                                              127 - 132 0 ---
                                                                                               R.CILLEK.O
                                                               87 - 93
 837 4463
                  836 4390
                                   836 4392
                                                  -0 20
                                                                                              R.EAAOYKK.A
 860 4691
                  859 4618
                                   859.4586
                                                  3.82 140 - 146
                                                                                 0 --- R.MVLNVER.E
885.4465 889.4618 859.4586 3.82 140 - 146 0 --- R.MVINVEK.E

885.4465 884.4393 884.4538 -16.46 460 - 466 0 --- R.VHNLQMK.L + Oxidation (M)

946.5259 945.5186 945.5355 -17.91 435 - 442 2 --- K.NIKNSSRK.C

1113.5729 1112.5656 1112.5760 -9.37 257 - 265 0 --- R.RPPQQICSK.F

1162.6182 1161.6109 1161.6063 3.96 388 - 397 1 --- K.MEIKGEQISK.L

1178.6356 1177.6283 1177.6053 19.6 266 - 275 0 --- K.FETLPIMAEK.S

1233.6445 1234.6372 1234.6405 -2.64 186 - 196 1 --- K.LITTQKTAEDK.I
                                                              182 - 191 1 --- K.ECFKLTTTQK.T
115 - 126 0 --- K.DISMQLSSAQSR.C + Oxidation (M)
1255.6096 1254.6023 1254.6278 -20.32
1338.6581 1337.6508 1337.6245
                                                   19.7
                                                              161 - 172 2 --- R.EKEQDHMKLHAK.L
230 - 242 1 --- R.ILMSSVTNPRHFK.E
1493.7579 1492.7506 1492.7456
                                                   3.36
1529.8099 1528.8026 1528.8184 -10.32
1537.7974 1536.7901 1536.8221 -20.82 127 - 138 1 --- R.CILLEKQLEYTK.R
1545.8091 1544.8018
                                 1544.8133
                                                  -7.44
                                                               230 - 242
                                                                                 1 --- R.ILMSSVTNPRHFK.E + Oxidation (M)
1628.7900 1627.7827 1627.7810
                                                    1.04
                                                              312 - 324 1 --- R.CLYKPSRTTSQCK.A
1628.7921 1627.7848 1627.7810
                                                               312 - 324
                                                    2.33
                                                                                              R.CLYKPSRTTSQCK.A
1704.8773 1703.8700 1703.8590 6.45 199 - 211 2 --- K.HLEEKLKEEEHQR.K
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1706.8701 1705.8628 1705.8781 -8.94 112 - 126 2 --- K.QKKDISMQLSSAQSR.C
1769.8741 1768.8668 1768.8890 -12.53 392 - 406 1 --- K.GEQISKLMQHQESVR.K
1933.9950 1932.9877 1933.0269 -20.25 213 - 229 1 --- K.LFQDKASQLQTGLEISR.I
2271.1294 2270.1221 2270.1511 -12.75 388 - 406 2 --- K.MEIKGEQISKLMQHQESVR.K
2497.2800 2496.2727 2496.2213 20.6 149 - 168 2 --- K.NMILEQQAQLQREKEQDHMK.L
2528.1750 2527.1677 2527.1496 7.15 28 - 49 0 --- R.SDESSQTHYSVNLEITSSQMLR.S + Oxidation (M)
 No match to: 721.4365, 725.4001, 726.4063, 728.3681, 730.3848, 731.4017, 732.3573, 734.4151, 735.4143, 741.4101, 742.4515, 744.4171, 745.4167, 746.4169, 747.4125, 750.4153, 752.4127, 755.4100, 756.4199, 757.4313, 761.4177, 767.4266, 768.3700, 768.3737, 770.3966, 772.4093, 779.4308, 784.3688, 786.4000, 787.4221, 788.4210, 792.4376, 795.4350, 798.4351, 800.4296, 812.4388, 815.4332,
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  1307.7042, 1308.6376, 1310.6146, 1312.6418, 1315.7098, 1320.6659, 1322.6886, 1323.6771, 1324.6964, 1328.7089, 1331.7202, 1335.7318,
  1339.6637, 1349.7253, 1352.7205, 1356.7230, 1360.6638, 1363.7153, 1365.7379, 1367.7319, 1369.7043, 1377.6947, 1379.7268, 1383.7137, 1385.7534, 1388.7404, 1390.7284, 1393.7428, 1407.7563, 1417.7010, 1421.7061, 1422.7019, 1425.7727, 1427.7742, 1429.7365, 1431.7412,
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  1549.7339, 1551.7778, 1553.8065, 1555.8101, 1556.8109, 1557.8010, 1561.8401, 1563.8109, 1565.8199, 1571.8400, 1579.7939, 1580.8077, 1583.8444, 1587.7620, 1592.8066, 1594.8335, 1604.8323, 1605.8586, 1608.8497, 1615.8754, 1624.8062, 1633.7985, 1640.9384, 1642.8099,
  1646.8297, 1649.8447, 1657.8101, 1667.8622, 1677.7988, 1680.8746, 1689.9465, 1694.7288, 1698.9225, 1699.8862, 1707.8302, 1710.9279, 1716.8671, 1719.9058, 1723.9011, 1725.8300, 1725.8346, 1727.8986, 1730.8931, 1737.9006, 1751.8656, 1754.8580, 1765.8463, 1766.8040,
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  1795.9353, 1798.9340, 1800.9336, 1804.9142, 1805.9069, 1809.8469, 1815.9044, 1821.9144, 1828.9227, 1837.9396, 1840.9827, 1843.9688, 1844.9012, 1846.9153, 1852.9364, 1856.9908, 1861.8881, 1867.9218, 1874.9695, 1880.9265, 1884.9417, 1891.9622, 1894.9313, 1896.9078,
  1896.9100, 1900.9546, 1905.9313, 1906.9501, 1908.9043, 1911.9130, 1912.9154, 1916.9923, 1918.9587, 1921.9825, 1923.9718, 1925.9573, 1928.0469, 1932.0060, 1937.9630, 1939.9740, 1944.0040, 1946.9679, 1949.9595, 1954.0236, 1955.9738, 1958.9556, 1960.0034, 1968.8600,
   1973.9845, 1976.9861, 1978.9910, 1981.9854, 1983.9884, 1987.9784, 1995.9408, 1998.9894, 2000.9926, 2008.0460, 2012.9590,
 2017.9747, 2021.0170, 2026.0275, 2027.0256, 2031.0166, 2044.0123, 2047.4957, 2047.9515, 2052.0496, 2060.0520, 2062.0073, 2064.9880, 2066.9873, 2094.0376, 2097.0454, 2102.0667, 2103.1641, 2111.0305, 2127.0930, 2139.0630, 2144.0493, 2148.1023, 2155.0950, 2156.0796,
 2160.0632, 2176.0664, 2190.9895, 2195.0774, 2199.0723, 2202.1624, 2203.1221, 2208.0862, 2211.1042, 2216.1062, 2225.1274, 2229.0972, 2233.0984, 2239.0225, 2242.0435, 2268.1489, 2270.1287, 2277.0823, 2284.1990, 2292.1426, 2309.0994, 2334.1719, 2342.9915,
 2350.1746, 2383.9607, 2398.2400, 2400.0862, 2413.0549, 2414.1897, 2417.0959, 2501.2637, 2511.1460, 2513.1421, 2537.2012, 2541.1948, 2542.1836, 2556.2058, 2562.1487, 2612.2666, 2706.2109, 2717.0869, 2767.2666, 2888.2532, 3221.1733, 3224.2917, 3312.3306, 3916.9434
                                                    Score: 24
                                                                                   Expect: 88 Matches: 13
                    Mass: 26289
 F-box and leucine-rich protein 22 OS-Bos taurus GN-FBXL22 PE=2 SV-1

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss
        Ions
        Peptide

        943.5453
        942.5381
        942.5359
        2.32
        178
        -
        186
        1
        ---
        R.NVSAA

                                                                                                                                         R.NVSAAGLRR.L
946.5259 945.5186 945.5144 4.41 212 - 221 0 --- R.GPHAPGAALR.K
959.5266 958.5193 958.5308 -11.95 21 - 28 2 --- K.DSRKNLAR.T
1057.6078 1056.6005 1056.5862 13.5 189 - 197 1 --- R.AACPRLTLR.A
1145.6407 1144.6334 1144.6240 8.20 57 - 66 0 --- K.DNFLLSPALR.S
1352.7205 1351.7132 1351.7142 -0.76 142 - 152 1 --- R.LRALHLENCAR.V
1551.7778 1550.7705 1550.7511 12.5 198 - 211 0 --- R.AEHSAAMIPDQLPR.G + Oxidation (M)
1553.8065 1552.7992 1552.7892 6.45 144 - 156 1 --- R.ALHLENCARVTNR.T
1844.9012 1843.8939 1843.8887 2.84 98 - 112 0 --- R.HESLVNDFLLQVCDR.C
1925.9573 1924.9500 1924.9294 10.7 138 - 152 2 --- R.CCPRLRALHLENCAR.V
1932.0060 1930.9987 1930.9935 2.72 77 - 92 1 --- R.CCPRLRALHLENCAR.V
1932.0060 2007.0387 2007.0248 6.96 9 - 24 2 --- R.ECLLHLFSFLDKDSR.N
2284.1990 2283.1917 2283.2018 -4.43 167 - 186 2 --- R.ALQTLHVDFCRNVSAAGLRR.L

No match to: 721.4365 725.4001, 726.4063, 728.3681, 730.3848, 731.4017, 732.3573, 734.4151, 735.
                                                                                         212 - 221
                          945.5186
                                                   945.5144
                                                                          4.41
 2284.1990 2283.1917 2283.2018 -4.43 167 - 186 2 --- R.ALQTLHVDFCRNVSAAGLRR.L

No match to: 721.4365, 725.4001, 726.4063, 728.3681, 730.3848, 731.4017, 732.3573, 734.4151, 735.4143, 741.4101, 742.4515, 744.4171, 745.4167, 746.4169, 747.4125, 750.4153, 752.4127, 755.4100, 756.4199, 757.4313, 761.4177, 767.4266, 768.3700, 768.3737, 770.3966, 772.4093, 775.4307, 779.4308, 784.3688, 786.4000, 787.4221, 788.4210, 792.4376, 795.4350, 798.4351, 800.4296, 812.4388, 815.4332, 822.4482, 825.4540, 831.4382, 832.4557, 835.4719, 837.4463, 842.5060, 844.4760, 854.4837, 856.4911, 860.4691, 862.4852, 869.4231, 885.4465, 905.4955, 907.4991, 908.4929, 913.5700, 913.5740, 916.5284, 918.5050, 919.5053, 922.5070, 928.5117, 934.5172, 940.4840, 942.4854, 943.4289, 950.4959, 951.5076, 953.5164, 954.5388, 966.5410, 969.5256, 972.5305, 974.5395, 976.5310, 978.5314, 979.5442, 991.5409, 993.5307, 1001.5854, 1003.5496, 1011.5262, 1014.5215, 1021.5579, 1023.5663, 1023.5700, 1031.5903, 1035.5381, 1036.5447, 1037.5573, 1039.5327, 1041.5658, 1044.5751, 1045.5729, 1046.5897, 1051.5448, 1056.5658, 1067.5753, 1073.5902, 1086.5509, 1092.5961, 1100.6071, 1106.5391, 1111.5615, 1113.5729, 1118.5818, 1120.6045, 1122.5912, 1123.5848, 1125.5823, 1132.6047, 1134.5714, 1139.5746, 1143.6318, 1144.6497, 1147.6393, 1150.6108, 1155.6215, 1157.6199, 1158.6685, 1162.6182, 1163.6152, 1168.6215, 1173.6418.
  1139.5746, 1143.6318, 1144.6497, 1147.6393, 1150.6108, 1155.6215, 1157.6199, 1158.6685, 1162.6182, 1163.6152, 1168.6215, 1173.6418, 1175.6089, 1178.6356, 1179.6157, 1181.6819, 1188.6544, 1197.6704, 1199.7006, 1208.6415, 1216.6714, 1227.6595, 1231.6387, 1232.6447,
  1234.6672, 1235.6445, 1244.6453, 1247.6211, 1248.6174, 1250.6554, 1255.6096, 1256.6531, 1261.6592, 1262.6453, 1266.6777, 1273.6260, 1275.6362, 1276.6343, 1277.6531, 1301.7079, 1303.7076, 1307.7042, 1308.6376, 1310.6146, 1312.6418, 1315.7098, 1320.6659, 1322.6886,
  1323.6771, 1324.6964, 1328.7089, 1331.7202, 1335.7318, 1338.6581, 1339.6637, 1349.7253, 1356.7230, 1360.6638, 1363.7153, 1365.7379, 1367.7319, 1369.7043, 1377.6947, 1379.7268, 1383.7137, 1385.7534, 1388.7404, 1390.7284, 1393.7428, 1407.7563, 1417.7010, 1421.7061,
  1422.7019, 1425.7727, 1427.7742, 1429.7365, 1431.7412, 1433.7228, 1434.7446, 1437.7584, 1461.7778, 1467.7521, 1472.7633, 1475.7632,
  1477.7545, 1484.7889, 1488.7537, 1491.7965, 1493.7579, 1500.7737, 1505.8177, 1513.8079, 1515.8213, 1517.7854, 1519.7544, 1522.7811,
  1523.7953, 1529.8099, 1530.7523, 1531.7472, 1537.7974, 1539.8005, 1542.8422, 1545.8091, 1547.8051, 1549.7339, 1555.8101, 1556.8109,
  1557.8010, 1561.8401, 1563.8109, 1565.8199, 1571.8400, 1579.7939, 1580.8077, 1583.8444, 1587.7620, 1592.8066, 1594.8335, 1604.8323,
  1605.8586, 1608.8497, 1615.8754, 1624.8062, 1628.7900, 1628.7921, 1633.7985, 1640.9384, 1642.8099, 1646.8297, 1649.8447, 1657.8101,
   1667.8622, 1677.7988, 1680.8746, 1689.9465, 1694.7288, 1698.9225, 1699.8862, 1704.8773, 1706.8701, 1707.8302, 1710.9279,
  1719.9058, 1723.9011, 1725.8300, 1725.8346, 1727.8986, 1730.8931, 1737.9006, 1751.8656, 1754.8580, 1765.8463, 1766.8040. 1767.8138.
   1769.8741, 1770.3567, 1772.9315, 1774.7610, 1774.9131, 1777.8770, 1780.8777, 1783.9246, 1787.8188, 1787.8200, 1791.8137, 1793.9050,
 1795.9353, 1798.9340, 1800.9336, 1804.9142, 1805.9069, 1809.8469, 1815.9044, 1821.9144, 1828.9227, 1837.9396, 1840.9827, 1843.9688, 1846.9153, 1852.9364, 1856.9908, 1861.8881, 1867.9218, 1874.9695, 1880.9265, 1884.9417, 1891.9622, 1894.9313, 1896.9078, 1896.9100, 1900.9546, 1905.9313, 1906.9501, 1908.9043, 1911.9130, 1912.9154, 1916.9923, 1918.9587, 1921.9825, 1923.9718, 1928.0469, 1933.9950, 1937.9630, 1939.9740, 1944.0040, 1946.9679, 1949.9595, 1954.0236, 1955.9738, 1958.9556, 1960.0034, 1968.8600, 1973.9845, 1976.9861,
 1978.9910, 1981.9854, 1983.9884, 1987.9784, 1995.9408, 1998.9894, 2000.9926, 2012.9590, 2015.0104, 2017.9747, 2021.0170, 2026.0275, 2027.0256, 2031.0166, 2044.0123, 2047.4957, 2047.9515, 2052.0496, 2060.0520, 2062.0073, 2064.9880, 2066.9873, 2094.0376, 2097.0454,
  2102.0667, 2103.1641, 2111.0305, 2127.0930, 2139.0630, 2144.0493, 2148.1023, 2155.0950, 2156.0796, 2160.0632, 2176.0664, 2190.9895,
 2195.0774, 2199.0723, 2202.1624, 2203.1221, 2208.0862, 2211.1042, 2216.1062, 2225.1274, 2226.1272, 2229.0972, 2233.0984, 2239.0225, 2242.0435, 2268.1489, 2270.1287, 2271.1294, 2277.0823, 2292.1426, 2309.0994, 2334.1719, 2342.9915, 2350.1746, 2383.9607, 2398.2400,
 2400.0862, 2413.0549, 2414.1897, 2417.0959, 2497.2800, 2501.2637, 2511.1460, 2513.1421, 2528.1750, 2537.2012, 2541.1948, 2542.1836, 2556.2058, 2562.1487, 2612.2666, 2706.2109, 2717.0869, 2767.2666, 2888.2532, 3221.1733, 3224.2917, 3312.3306, 3916.9434
                                                                                      Expect: 94 Matches: 22
                                                       Score: 24
  Uncharacterized protein OS=Bos taurus GN=STAU2 PE=4 SV=1
                          Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide
   Observed
                                                                                           197 - 202
                                                                                                                                        R.GMPRRR.E + Oxidation (M)
```

```
1036.5447 1035.5374 1035.5535 -15.55 202 - 209 1 --- R.REFVMQVK.V
1056.5658 1055.5585 1055.5335 23.7 1 - 8 1 --- -RYHCPVPK.I
1113.5729 1112.5656 1112.5509 13.3 29 - 38 1 --- R.QAARHNAAMK.A + Oxidation (M)
1055.5585 1055.5585 1055.5385 23.7 1 - 8 1 --- RYRCPVEK.1
1113.5729 1112.5565 1112.5509 13.3 29 - 38 1 --- R.QAARHNAAMK.A + Oxidation (M)
1163.6152 1162.6079 1162.6056 1.98 84 - 93 0 --- R.NMPVSFEVIK.E
1179.6157 1178.6084 1178.6005 6.69 84 - 93 0 --- R.NMPVSFEVIK.E + Oxidation (M)
1208.6415 1207.6342 1207.6346 -12.69 201 - 209 2 --- R.RRFFVMQVK.V + Oxidation (M)
1335.7318 1334.7245 1334.7016 17.1 83 - 93 1 --- K.RNMPVSFEVIK.E + Oxidation (M)
1437.7584 1436.7511 1436.7333 12.4 228 - 240 0 --- K.NAAEAMLLQLGYK.A + Oxidation (M)
1472.7633 1471.7560 1471.7242 21.6 94 - 106 1 --- K.ESGPPHMKSFVTR.V
1477.7545 1476.7472 1476.7460 0.84 185 - 196 1 --- K.EKEPDYVLLSER.G
1488.7537 1487.7464 1487.7191 18.4 94 - 106 1 --- K.EKEPDYVLLSER.G
1624.8062 1623.7989 1623.7740 15.3 107 - 122 1 --- K.KEKEPDYVLLSER.G
1624.8062 1623.7989 1623.7740 15.3 107 - 122 1 --- K.KEKEPDYVLLSER.G
1624.8062 1664.813 1604.8409 6.47 184 - 196 2 --- K.KEKEPDYVLLSER.G
1625.8586 1604.8513 1604.8409 6.47 184 - 196 2 --- K.KEKEPDYVLLSER.G
1626.8062 1676.7915 1676.8192 -16.49 187 - 200 1 --- K.KEKEPDYVLLSER.G
1627.0256 2026.0183 2026.0016 8.26 84 - 101 1 --- K.KEKEPDYVLLSER.GMPR.R
1933.9950 1932.9877 1932.977 7.76 158 - 175 1 --- K.KEKEPDYVLLSER.GMPR.R
1933.9950 1932.9877 1932.9727 7.76 158 - 175 1 --- K.KEKEPDYVLLSER.GMPR.R
1933.9950 1932.9877 1932.9727 7.76 158 - 175 1 --- K.KEKEPDYVLLSER.GMPR.R
1933.9950 1932.9877 1932.9727 7.76 158 - 175 1 --- K.KITVKAGPEYGQGMNPISR.L + Oxidation (M)
2027.0256 2026.0183 2026.0016 8.26 84 - 101 1 --- K.KITVKAGPEYGQGMNPISR.L + Oxidation (M)
2027.0256 2026.0183 2026.0016 8.26 84 - 101 1 --- K.KITVKAGPEYGQGMNPISR.L + Oxidation (M)
2027.0256 2026.0183 2026.0016 8.26 84 - 101 1 --- K.KITVKAGPEYGQGMNPISR.L + Oxidation (M)
2027.0256 2026.0183 2026.0016 8.26 84 - 101 1 --- K.KITVKAGPEYGQGMNPISR.L + Oxidation (M)
2027.0256 2026.0183 2026.0016 8.26 84 - 101 1 --- K.KITVKAGPEYGQGMNPISR.L + Oxidation (M)
2027.0256 2026.0183 2026.0016 8.26 84 - 101 1 --- K.KITVKAGPEYGYIKESGPPHMK.S + Oxidation (M)
2027.0256 2026.0183 2026.0016 8.26 84 
 976.5310, 978.5314, 979.5442, 991.5409, 993.5307, 1001.5854, 1003.5496, 1011.5262, 1014.5215, 1021.5579, 1023.5663, 1023.5700, 1031.5903, 1035.5381, 1037.5573, 1039.5327, 1041.5658, 1044.5751, 1045.5729, 1046.5897, 1051.5448, 1057.6078, 1067.5753, 1073.5902, 1086.5509, 1092.5961, 1100.6071, 1106.5391, 1111.5615, 1118.5818, 1120.6045, 1122.5912, 1123.5848, 1125.5823, 1132.6047, 1134.5714,
  1139.5746, 1143.6318, 1144.6497, 1145.6407, 1147.6393, 1150.6108, 1155.6215, 1157.6199, 1158.6685, 1162.6182, 1168.6215, 1173.6418,
   1175.6089, 1178.6356, 1181.6819, 1188.6544, 1197.6704, 1199.7006, 1216.6714, 1227.6595, 1231.6387, 1232.6447, 1234.6672, 1235.6445,
  1244.6453, 1247.6211, 1248.6174, 1250.6554, 1255.6096, 1256.6531, 1261.6592, 1262.6453, 1266.6777, 1273.6260, 1275.6362, 1276.6343, 1277.6531, 1301.7079, 1303.7076, 1307.7042, 1308.6376, 1310.6146, 1312.6418, 1315.7098, 1320.6659, 1322.6886, 1323.6771, 1324.6964,
  1328.7089, 1331.7202, 1338.6581, 1339.6637, 1349.7253, 1352.7205, 1356.7230, 1360.6638, 1363.7153, 1365.7379, 1367.7319, 1369.7044, 1377.6947, 1379.7268, 1383.7137, 1385.7534, 1388.7404, 1390.7284, 1393.7428, 1407.7563, 1417.7010, 1421.7061, 1422.7019, 1425.7727,
   1427.7742, 1429.7365, 1431.7412, 1433.7228, 1434.7446, 1461.7778, 1467.7521, 1475.7632, 1484.7889, 1491.7965, 1493.7579, 1500.7737
  1505.8177, 1513.8079, 1515.8213, 1517.7854, 1519.7544, 1522.7811, 1523.7953, 1529.8099, 1530.7523, 1531.7472, 1537.7974, 1539.8005,
   1542.8422, 1545.8091, 1547.8051, 1549.7339, 1551.7778, 1553.8065, 1555.8101, 1556.8109, 1557.8010, 1561.8401, 1563.8109, 1571.8400,
  1579.7939, 1580.8077, 1583.8444, 1587.7620, 1592.8066, 1594.8335, 1604.8323, 1608.8497, 1615.8754, 1628.7900, 1628.7921, 1633.7985, 1640.9384, 1642.8099, 1646.8297, 1649.8447, 1657.8101, 1667.8622, 1680.8746, 1689.9465, 1694.7288, 1698.9225, 1699.8862, 1704.8773,
  1706.8701, 1707.8302, 1710.9279, 1716.8671, 1719.9058, 1723.9011, 1725.8300, 1725.8346, 1727.8986, 1730.8931, 1737.9006, 1751.8656, 1754.8580, 1765.8463, 1766.8040, 1767.8138, 1769.8741, 1770.3567, 1772.9315, 1774.7610, 1774.9131, 1777.8770, 1780.8777, 1783.9246,
   1787.8188, 1787.8200, 1791.8137, 1793.9050, 1795.9353, 1798.9340, 1800.9336, 1804.9142, 1805.9069, 1809.8469, 1815.9044, 1821.9144,
  1828.9227, 1837.9396, 1840.9827, 1843.9688, 1844.9012, 1846.9153, 1852.9364, 1856.9908, 1861.8881, 1867.9218, 1874.9695, 1880.9265,
   1884.9417, 1891.9622, 1894.9313, 1896.9078, 1896.9100, 1900.9546, 1905.9313, 1906.9501, 1908.9043, 1911.9130, 1912.9154, 1916.9923,
  1921.9825, 1923.9718, 1925.9573, 1928.0469, 1932.0060, 1937.9630, 1939.9740, 1944.0040, 1946.9679, 1949.9595, 1954.0236, 1955.9738, 1958.9556, 1960.0034, 1968.8600, 1973.9845, 1976.9861, 1978.9910, 1981.9854, 1983.9884, 1987.9784, 1995.9408, 1998.9894, 2000.9926,
  2008.0460, 2012.9590, 2015.0104, 2017.9747, 2021.0170, 2026.0275, 2031.0166, 2044.0123, 2047.4957, 2047.9515, 2052.0496, 2060.0520, 2064.9880, 2066.9873, 2094.0376, 2097.0454, 2102.0667, 2103.1641, 2111.0305, 2127.0930, 2139.0630, 2144.0493, 2148.1023, 2155.0950,
  2156.0796, 2160.0632, 2176.0664, 2190.9895, 2195.0774, 2202.1624, 2203.1221, 2208.0862, 2211.1042, 2216.1062, 2225.1274, 2226.1272, 2229.0972, 2233.0984, 2239.0225, 2242.0435, 2268.1489, 2270.1287, 2271.1294, 2277.0823, 2284.1990, 2292.1426, 2309.0994, 2334.1719,
  2342.9915, 2350.1746, 2383.9607, 2398.2400, 2400.0862, 2413.0549, 2414.1897, 2417.0959, 2497.2800, 2511.1460, 2513.1421, 2528.1750, 2537.2012, 2541.1948, 2542.1836, 2556.2058, 2562.1487, 2612.2666, 2706.2109, 2717.0869, 2767.2666, 2888.2532, 3221.1733, 3224.2917,
  3312.3306, 3916.9434
                                                     Score: 24
                                                                                   Expect: 1e+002 Matches: 6
                    Mass: 7899
  Uncharacterized protein OS=Bos taurus GN=FAM19A4 PE=4 SV=1
2767.2666 2766.2593 2766.2313 10.1 45 - 69 1 --- K.CSCFFGQVAGTTRAQPSCVEAAWNI.-

No match to: 721.4365, 725.4001, 726.4063, 728.3681, 730.3848, 731.4017, 732.3573, 734.4151, 735.4143, 741.4101, 742.4515, 744.4171, 745.4167, 746.4169, 747.4125, 750.4153, 752.4127, 755.4100, 756.4199, 757.4313, 761.4177, 767.4266, 768.3700, 768.3737, 770.3966, 772.4093, 775.4307, 779.4308, 784.3688, 786.4000, 787.4221, 788.4210, 792.4376, 795.4350, 798.4351, 800.4296, 812.4388, 815.4332, 822.4482, 825.4540, 831.4382, 832.4557, 835.4719, 837.4463, 842.5060, 844.4760, 854.4837, 856.4911, 860.4691, 862.4852, 869.4231, 905.4955, 907.4991, 908.4929, 913.5700, 913.5747, 916.5284, 918.5050, 919.5053, 922.5070, 928.5117, 934.5172, 940.4840, 942.4854, 943.4289, 943.5453, 946.5259, 950.4959, 951.5076, 953.5164, 954.5388, 959.5266, 966.5410, 969.5256, 972.5305, 974.5395, 976.5310, 978.5314, 979.5442, 991.5409, 993.5307, 1001.5854, 1003.5496, 1011.5262, 1021.5579, 1023.5663, 1023.5700, 1031.5903, 1033.5381, 1036.5447, 1037.5573, 1039.5527, 1041.5658, 1044.5751, 1045.5729, 1046.5897, 1051.5448, 1056.5658, 1057.6078, 1067.5753, 1039.5501, 1006.5501, 1009.5501, 1006.5502, 1009.5501, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001, 1120.6001,
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  1163.6152, 1168.6215, 1173.6418, 1175.6089, 1178.6356, 1179.6157, 1181.6819, 1188.6544, 1197.6704, 1199.7006, 1208.6415, 1216.6714
  1227.6595, 1231.6387, 1232.6447, 1234.6672, 1235.6445, 1244.6453, 1247.6211, 1248.6174, 1250.6554, 1256.6531, 1261.6592, 1262.6453, 1266.6777, 1273.6260, 1275.6362, 1276.6343, 1277.6531, 1301.7079, 1303.7076, 1307.7042, 1308.6376, 1310.6146, 1312.6418, 1315.7098,
  1320.6659, 1322.6886, 1323.6771, 1324.6964, 1328.7089, 1331.7202, 1335.7318, 1338.6581, 1339.6637, 1349.7253, 1352.7205, 1356.7230, 1360.6638, 1363.7153, 1365.7379, 1367.7319, 1369.7043, 1377.6947, 1379.7268, 1383.7137, 1385.7534, 1388.7404, 1390.7284, 1393.7428,
  1407.7563, 1417.7010, 1421.7061, 1422.7019, 1425.7727, 1427.7742, 1429.7365, 1431.7412, 1433.7228, 1434.7446, 1437.7584, 1461.7778, 1467.7521, 1472.7633, 1475.7632, 1477.7545, 1484.7889, 1488.7537, 1491.7965, 1493.7579, 1500.7737, 1505.8177, 1513.8079, 1515.8213,
   1517.7854, 1519.7544, 1522.7811, 1523.7953, 1529.8099, 1530.7523, 1531.7472, 1537.7974, 1539.8005, 1542.8422, 1545.8091, 1547.8051,
  1549.7339, 1551.7778, 1553.8065, 1555.8101, 1556.8109, 1557.8010, 1561.8401, 1563.8109, 1565.8199, 1571.8400, 1579.7939, 1580.8077
   1583.8444, 1587.7620, 1592.8066, 1594.8335, 1604.8323, 1605.8586, 1608.8497, 1615.8754, 1624.8062, 1628.7900, 1628.7921, 1633.7985,
  1640.9384, 1642.8099, 1646.8297, 1649.8447, 1657.8101, 1667.8622, 1677.7988, 1680.8746, 1689.9465, 1694.7288, 1698.9225, 1699.8862
   1704.8773, 1706.8701, 1707.8302, 1710.9279, 1716.8671, 1719.9058, 1723.9011, 1725.8300, 1725.8346,
                                                                                                                                                                                                                    1727.8986, 1730.8931, 1737.9006,
   1751.8656, 1754.8580, 1765.8463, 1766.8040, 1767.8138, 1769.8741,
                                                                                                                                             1770.3567, 1772.9315, 1774.7610,
                                                                                                                                                                                                                    1774.9131, 1777.8770, 1780.8777
   1783.9246, 1787.8188, 1787.8200, 1791.8137, 1793.9050, 1795.9353, 1798.9340, 1800.9336, 1804.9142, 1805.9069, 1809.8469, 1815.9044,
   1821.9144, 1828.9227, 1837.9396, 1840.9827, 1843.9688, 1844.9012, 1846.9153, 1852.9364, 1856.9908, 1861.8881, 1867.9218, 1874.9695,
  1884.9417, 1891.9622, 1894.9313, 1896.9078, 1896.9100, 1900.9546, 1905.9313, 1906.9501, 1908.9043, 1911.9130, 1912.9154, 1916.9923,
   1918.9587, 1921.9825, 1923.9718, 1925.9573, 1928.0469, 1932.0060, 1933.9950, 1937.9630, 1939.9740, 1944.0040, 1946.9679, 1949.9595,
  1954.0236, 1955.9738, 1958.9556, 1960.0034, 1968.8600, 1973.9845, 1976.9861, 1978.9910, 1981.9854, 1983.9884, 1987.9784, 1995.9408, 1998.9894, 2000.9926, 2008.0460, 2012.9590, 2015.0104, 2017.9747, 2021.0170, 2026.0275, 2027.0256, 2031.0166, 2044.0123, 2047.4957,
  2047.9515, 2052.0496, 2060.0520, 2062.0073, 2064.9880, 2066.9873, 2094.0376, 2097.0454, 2102.0667, 2103.1641, 2111.0305, 2127.0930
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2139.0630, 2144.0493, 2148.1023, 2155.0950, 2156.0796, 2160.0632, 2176.0664, 2190.9895, 2195.0774, 2199.0723, 2202.1624, 2203.1221, 2208.0862, 2211.1042, 2216.1062, 2225.1274, 2226.1272, 2229.0972, 2233.0984, 2239.0225, 2242.0435, 2268.1489, 2270.1287, 2271.1294, 2271.0823, 2284.1990, 2292.1426, 2309.0994, 2334.1719, 2342.9915, 2350.1746, 2383.9607, 2398.2400, 2400.0862, 2413.0549, 2414.1897,
      2417.0959, 2497.2800, 2501.2637, 2513.1421, 2528.1750, 2537.2012, 2541.1948, 2542.1836, 2556.2058, 2562.1487, 2612.2666, 2706.2109,
      2717.0869, 2888.2532, 3221.1733, 3224.2917, 3312.3306, 3916.9434
    F1MS41 Mass: 14310 Score: 24
                                                                                                                                                                         Expect: 1e+002 Matches: 9
      Beta-synuclein OS=Bos taurus GN=SNCB PE=3 SV=2

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss
        Ions
        Peptide

        784.3688
        783.3615
        783.3659
        -5.63
        1 - 6
        0 ---
        -.MEVFMK.G

        951.5076
        950.5004
        950.5073
        -7.30
        35 - 43
        0 ---
        K.EGVLYVGSK.T

  951.5076 950.5004 950.5073 -7.30 35 - 43 0 --- K.EGYLYVGSK.T

1208.6415 1207.6342 1207.6561 -18.10 35 - 45 1 --- K.EGYLYVGSK.T.E

1256.6531 1255.6458 1255.6304 12.2 2 - 12 1 --- K.EGYLYVGSK.T.E

1390.7284 1389.7211 1389.7463 -18.14 22 - 34 2 --- K.TKQGYTEABEKTK.E

1529.8099 1528.8026 1528.8020 -11.97 44 - 58 1 --- K.TKQGYTEABEKTK.E

1689.9465 1688.9392 1688.9131 15.5 7 - 23 2 --- K.GLSMAKEGVVAAAEKTK.Q

1217.0930 2126.0857 2126.0751 4.98 2 - 21 2 --- M.EVFMKGLSMAKEGVVAAAEKT.T

Nomatch to: 721.4365, 725.4001, 726.4063, 728.3681, 730.3848, 731.4017, 732.3573, 734.4151, 735.4143, 741.4101, 742.4515, 744.4171, 745.4167, 746.4169, 747.4125, 750.4153, 752.4127, 755.4100, 756.4199, 757.4313, 761.4177, 767.4266, 768.3700, 768.3737, 770.3966, 772.4093, 775.4302, 779.4308, 786.4000, 787.4221, 788.4210, 792.4376, 795.4350, 798.4351, 800.4296, 812.4388, 815.4332, 822.4482, 825.4540, 831.4382, 832.4557, 835.4719, 837.4463, 842.5060, 844.4760, 884.4376, 856.4911, 860.4691, 862.4882, 869.4231,
    770.3966, 772.4093, 775.4307, 779.4308, 786.4000, 787.4221, 788.4210, 792.4376, 795.4350, 798.4351, 800.4296, 812.4388, 815.4332, 822.4482, 825.4540, 831.4382, 832.4557, 835.4719, 837.4463, 842.5060, 844.4760, 854.4837, 856.4911, 860.4691, 862.4852, 869.4231, 885.4465, 905.4955, 907.4991, 908.4929, 913.5700, 913.5747, 916.5284, 918.5050, 919.5053, 922.5070, 928.5117, 934.5172, 940.4840, 942.4854, 943.4289, 943.5453, 946.5259, 950.4959, 953.5164, 954.5388, 959.5266, 966.5410, 969.5256, 972.5305, 974.5395, 976.5310, 978.5314, 979.5442, 991.5409, 993.5307, 1001.5854, 1003.5496, 1011.5262, 1014.5215, 1021.5579, 1023.5663, 1023.5700, 1031.5903, 1035.5381, 1036.5447, 1037.5573, 1039.5327, 1041.5658, 1044.5751, 1045.5729, 1046.5897, 1051.5448, 1056.5658, 1057.5678, 1067.5753, 1073.5902, 1086.5509, 1092.5961, 1100.6071, 1106.5391, 1111.5615, 1113.5729, 1118.5818, 1120.6045, 1122.5912, 1123.5848, 1125.5823, 1132.6047, 1134.5714, 1139.5746, 1143.6318, 1144.6497, 1145.6407, 1147.6393, 1150.6108, 1157.6199, 1158.6685, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1
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     1231.6367, 1252.6447, 1234.6612, 1235.6445, 1244.6453, 1247.6211, 1246.6174, 1230.6344, 1230.6059, 1250.60592, 1260.6077, 1230.6659, 1270.6362, 1276.6343, 1277.6551, 1301.67079, 1303.7076, 1307.7042, 1308.6376, 1310.61646, 1312.6418, 1315.7098, 1322.6689, 1322.6886, 1323.6771, 1324.6964, 1328.7089, 1331.7202, 1335.7318, 1338.6581, 1339.6637, 1349.7253, 1352.7205, 1356.7230, 1360.638, 1363.7153, 1365.7379, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319, 1367.7319
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      1594.8335, 1604.8323, 1605.8586, 1608.8497, 1615.8754, 1624.8062, 1628.7900, 1628.7921, 1633.7985, 1640.9384, 1642.8099, 1646.8297, 1649.8447, 1657.8101, 1667.8622, 1677.7988, 1680.8746, 1694.7288, 1698.9225, 1699.8862, 1704.8773, 1706.8701, 1707.8302, 1710.9279,
       1716.8671, 1719.9058, 1723.9011, 1725.8300, 1725.8346, 1727.8986, 1730.8931, 1737.9006, 1751.8656, 1754.8580, 1765.8463, 1766.8040,
     1767.8138, 1769.8741, 1770.3567, 1772.9315, 1774.7610, 1774.9131, 1777.8770, 1780.8777, 1783.9246, 1787.8188, 1787.8200, 1791.8137, 1793.9050, 1795.9353, 1798.9340, 1800.9336, 1804.9142, 1805.9069, 1809.8469, 1815.9044, 1821.9144, 1828.9227, 1837.9396, 1840.9827,
      1843.9688, 1844.9012, 1846.9153, 1852.9364, 1856.9908, 1861.8881, 1867.9218, 1874.9695, 1880.9265, 1884.9417, 1891.9622, 1894.9313, 1896.9078, 1896.9100, 1900.9546, 1905.9313, 1906.9501, 1908.9043, 1911.9130, 1912.9154, 1916.9923, 1918.9587, 1921.9825, 1923.9718,
      1925.9573, 1928.0469, 1932.0060, 1933.9950, 1937.9630, 1939.9740, 1944.0040, 1946.9679, 1949.9595, 1954.0236, 1955.9738, 1958.9556, 1960.0034, 1968.8600, 1973.9845, 1976.9861, 1978.9910, 1981.9854, 1983.9884, 1987.9784, 1995.9408, 1998.9894, 2000.9926, 2008.0460,
      2012.9590, 2015.0104, 2017.9747, 2021.0170, 2026.0275, 2027.0256, 2031.0166, 2044.0123, 2047.4957, 2047.9515, 2052.0496, 2060.0520,
     2062.0073, 2064.9880, 2066.9873, 2094.0376, 2097.0454, 2102.0667, 2103.1641, 2111.0305, 2139.0630, 2144.0493, 2148.1023, 2155.0950, 2156.0796, 2160.0632, 2176.0664, 2190.9895, 2195.0774, 2199.0723, 2202.1624, 2203.1221, 2208.0862, 2211.1042, 2216.1062, 2225.1274,
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      2528.1750, 2537.2012, 2541.1948, 2542.1836, 2556.2058, 2562.1487, 2612.2666, 2706.2109, 2717.0869, 2767.2666, 2888.2532, 3221.1733
      3224.2917, 3312.3306, 3916.9434
                                                                                                                                                                     Expect: 1e+002 Matches: 17
                                            Mass: 36124 Score: 24
      Annexin A5 OS=Bos taurus GN=ANXA5 PE=1 SV=3

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End
        Mrs
        Ions
        Peptide

        831.4382
        830.4399
        830.4385
        -9.20
        64 - 70
        0
        ---
        R.DLLDDLK.S

        854.4837
        853.4764
        853.4882
        -13.82
        202 - 208
        1
        ---
        R.SVSHLRR.V

831.4382 830.4398 830.4385 -9.20 64 - 70 0 --- R.DLLDDLR.S

854.4837 853.4764 853.4882 -13.82 202 - 208 1 --- R.SVSHLRR.V

905.4955 904.4883 904.5018 -14.97 51 - 58 0 --- R.QEIAVAFK.T

954.5388 953.5315 953.5335 -2.01 194 - 201 0 --- K.FITIFGTR.S

1001.5854 1000.5781 1000.5917 -13.54 109 - 117 0 --- K.VLTEIIASR.T

1014.5215 1013.5142 1013.5069 7.20 90 - 97 0 --- R.SEIDLYNIR.K

1225.5912 1121.5839 1121.5717 10.9 277 - 285 0 --- R.SEIDLYNIR.K

1250.6554 1249.6481 1249.6666 -14.79 277 - 286 1 --- R.SEIDLYNIR.K

1276.6343 1275.6270 1275.6169 7.93 291 - 301 0 --- K.NFGTSLYSMIK.G + Oxidation (M)

1310.6146 1309.6073 1309.5939 10.2 7 - 18 0 --- R.STANDERSE REPORTED RE
     815.4352, 822.4482, 822.4482, 832.4491, 832.4491, 837.4493, 842.5000, 844.4700, 856.4911, 800.4991, 802.4852, 805.4231, 885.4495, 907.4991, 908.4929, 913.5700, 913.5747, 916.5284, 918.5050, 919.5053, 922.5070, 928.5117, 934.5172, 940.4840, 942.4854, 943.4289, 943.5453, 946.5259, 950.4959, 951.5076, 953.5164, 959.5266, 966.5410, 969.5256, 972.5305, 974.5395, 976.5310, 978.5314, 979.5442, 991.5409, 993.5307, 1003.5496, 1011.5262, 1021.5579, 1023.5663, 1023.5700, 1031.5903, 1035.5381, 1036.5447, 1037.5573, 1039.5327, 1041.5658, 1044.5751, 1045.5729, 1046.5897, 1051.5448, 1056.5658, 1057.6078, 1067.5753, 1073.5902, 1086.5509, 1092.5961, 1100.6071, 1106.5391, 1111.5615, 1113.5729, 1118.5818, 1120.6045, 1123.5848, 1125.5823, 1132.6047, 1134.5714, 1139.5746, 1143.6318, 1144.6497, 1145.6031, 1145.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.6031, 1165.603
      1145.6407, 1147.6393, 1150.6108, 1155.6215, 1157.6199, 1158.6685, 1162.6182, 1163.6152, 1168.6215, 1173.6418, 1175.6089, 1178.6356, 1179.6157, 1181.6819, 1188.6544, 1197.6704, 1199.7006, 1208.6415, 1216.6714, 1227.6595, 1231.6387, 1232.6447, 1234.6672, 1235.6445,
      1244.6453, 1247.6211, 1248.6174, 1255.6096, 1256.66531, 1261.65592, 1262.6453, 1266.6777, 1273.6260, 1275.6362, 1277.6551, 1301.7079, 1303.7076, 1307.7042, 1308.6376, 1312.6418, 1315.7098, 1320.6659, 1322.6886, 1323.6771, 1324.6964, 1328.7089, 1331.7202, 1335.7318, 1338.6581, 1339.6637, 1349.7253, 1352.7205, 1356.7230, 1360.6638, 1363.7153, 1365.7379, 1367.7319, 1369.7043, 1377.6947, 1379.7268,
      1383.7137, 1385.7534, 1390.7284, 1393.7428, 1407.7563, 1417.7010, 1421.7061, 1422.7019, 1425.7727, 1427.7742, 1429.7365, 1431.7412, 1433.7228, 1434.7446, 1437.7584, 1467.7521, 1472.7633, 1475.7632, 1477.7545, 1484.7889, 1488.7537, 1491.7965, 1493.7579, 1500.7737,
      1505.8177, 1513.8079, 1515.8213, 1517.7854, 1519.7544, 1522.7811, 1523.7953, 1529.8099, 1530.7523, 1531.7472, 1537.7974, 1539.8005, 1542.8422, 1545.8091, 1547.8051, 1549.7339, 1551.7778, 1553.8065, 1555.8101, 1556.8109, 1557.8010, 1561.8401, 1563.8109, 1565.8199,
      1571.8400, 1579.7939, 1580.8077, 1583.8444, 1587.7620, 1592.8066, 1594.8335, 1604.8323, 1605.8586, 1608.8497, 1615.8754, 1624.8062, 1628.7900, 1628.7921, 1633.7985, 1640.9384, 1642.8099, 1646.8297, 1649.8447, 1657.8101, 1667.8622, 1677.7988, 1680.8746, 1689.9465,
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1694.7288, 1698.9225, 1699.8862, 1704.8773, 1706.8701, 1707.8302, 1716.8671, 1719.9058, 1723.9011, 1725.8300, 1725.8346, 1727.8986, 1730.8931, 1737.9006, 1751.8656, 1754.8580, 1765.8463, 1766.8040, 1767.8138, 1769.8741, 1770.3567, 1772.9315, 1774.7610, 1774.9131,
            1777.8770, 1780.8777, 1783.9246, 1787.8188, 1787.8200, 1791.8137, 1793.9050, 1795.9353, 1798.9340, 1800.9336, 1804.9142, 1805.9069,
            1809.8469, 1815.9044, 1821.9144, 1828.9227, 1837.9396, 1840.9827, 1843.9688, 1844.9012, 1846.9153, 1852.9364, 1856.9908, 1861.8881, 1867.9218, 1874.9695, 1880.9265, 1884.9417, 1891.9622, 1894.9313, 1896.9078, 1896.9100, 1900.9546, 1905.9313, 1906.9501, 1908.9043,
           1911.9130, 1912.9154, 1916.9923, 1918.9587, 1921.9825, 1923.9718, 1925.9573, 1928.0469, 1932.0060, 1933.9950, 1937.9630, 1939.9740, 1944.0040, 1946.9679, 1949.9595, 1954.0236, 1955.9738, 1958.9556, 1960.0034, 1968.8600, 1973.9845, 1976.9861, 1978.9910, 1981.9854,
           1983.9884, 1987.9784, 1995.9408, 1998.9894, 2000.9926, 2008.0460, 2012.9590, 2015.0104, 2017.9747, 2021.0170, 2026.0275, 2027.0256, 2031.0166, 2044.0123, 2047.4957, 2047.9515, 2052.0496, 2060.0520, 2062.0073, 2064.9880, 2094.0376, 2097.0454, 2102.0667, 2103.1641,
            2111.0305, 2127.0930, 2139.0630, 2144.0493, 2148.1023, 2155.0950, 2156.0796, 2160.0632, 2176.0664, 2190.9895, 2199.0723, 2202.1624,
           2208.0862, 2211.1042, 2216.1062, 2225.1274, 2226.1272, 2229.0972, 2233.0984, 2239.0225, 2242.0435, 2268.1489, 2270.1287, 2271.1294, 2277.0823, 2284.1990, 2309.0994, 2334.1719, 2342.9915, 2350.1746, 2383.9607, 2398.2400, 2400.0862, 2413.0549, 2414.1897, 2417.0959,
           2497.2800, 2501.2637, 2511.1460, 2513.1421, 2528.1750, 2537.2012, 2541.1948, 2542.1836, 2556.2058, 2562.1487, 2612.2666, 2706.2109, 2717.0869, 2767.2666, 2888.2532, 3221.1733, 3224.2917, 3312.3306, 3916.9434
17. <u>E1BM24</u> Mass: 57270
                                                          Score: 23
                                                                                       Expect: 1.3e+002 Matches: 23
            CCDC64B protein-like OS=Bos taurus GN=CCDC64B PE=4 SV=1
             Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide
                                                                               20.2 214 - 221
                                                        971.5036
                                                                                                                        --- R.QDLEAQIR.G
           1045.5729 1044.5656 1044.5563 8.89 225 - 233
1158.6685 1157.6612 1157.6656 -3.74 414 - 423
         1045.5729 1044.5656 1044.5563 8.89 225 - 233 2 --- R.EELEKGRGK.I.
1158.6685 1157.6612 1157.6656 -3.74 414 - 423 0 --- K.VLELSLELSR.V
1328.7089 1327.7016 1327.7208 -14.42 383 - 392 2 --- R.EELQRQKELR.V
1338.6581 1337.6508 1337.6575 -4.99 336 - 346 1 --- R.SPEERLEPPR.K
1365.7379 1364.7306 1364.7272 2.47 249 - 259 2 --- R.EELQRQKELR.V
1365.7379 1364.7306 1364.7272 2.47 249 - 259 2 --- R.EELGRGKG.S
1484.7889 1483.7816 1483.7743 4.95 124 - 136 1 --- R.DVEALRAQLGEQR.S
1553.8065 1552.7992 1552.8038 -2.97 490 - 504 0 --- R.LSPGPAGGFFSTIFR.R
1804.9142 1803.9069 1803.8897 9.54 199 - 213 1 --- R.DEANNKVLEISLEISR.V
1874.9695 1873.9622 1873.9390 12.4 367 - 382 0 --- R.LQVEMAMQQAELQSLR.E
1905.9313 1904.9240 1904.9374 -7.02 197 - 212 1 --- R.TRLESLQGENQMLQSR.R + Oxidation (M)
1906.9501 1905.9428 1905.9288 7.36 367 - 382 0 --- R.LQVEMAMQQAELQSLR.E + 2 Oxidation (M)
1908.9043 1907.8970 1907.9085 -6.02 90 - 104 1 --- R.AGREEQLQQENHELR.R
1973.9845 1972.9772 1972.9311 23.4 130 - 146 2 --- R.AGLGGRAGWEARAVELER.D
2015.0104 2014.0031 2013.9967 3.20 390 - 407 1 --- K.GLARGAEWEARAVELER.D
2015.0104 2014.0031 2013.9967 3.20 390 - 407 1 --- K.GLARGAEWEARAVELER.D
2015.0104 2014.0031 2013.9967 3.20 390 - 407 1 --- K.GLARGAEWEARAVELER.D
2047.9515 2046.9442 2046.9818 -18.35 316 - 335 0 --- R.SGGALTTLSPETQEASSQQR.S
2062.0073 2061.0000 2061.0385 -18.67 197 - 213 2 --- R.TRLESLGGENQMLQSR.C,Q + Oxidation (M)
2064.9880 2063.9807 2064.0096 -14.00 90 - 105 2 --- R.AGREQLQQENHELR.R
2271.1294 2270.1221 2270.1502 -12.37 388 - 407 2 --- R.GLARGAEWEARAVELERDVEALR.A
2271.1294 2270.1221 2270.1502 -12.37 388 - 407 2 --- R.QKELRVQDPEEALSSALSDR.D
2284.1990 2283.1917 2283.2083 -7.28 469 - 489 1 --- R.QQELSAATSARPPAPTRFSLR.L
                                                                                                                                     K.VLELSLELSR.V
           2271.1294 2270.1221 2270.1502 -12.37 388 - 407 2 --- R.OKELRVQDPEEALSSALSDR.D 2284.1990 2283.1917 2283.2083 -7.28 469 - 489 1 --- R.OQELSAATSAPRPAPTRFSLR.L
            No match to: 721.4365, 725.4001, 726.4063, 728.3681, 730.3848, 731.4017, 732.3573, 734.4151, 735.4143, 741.4101, 742.4515,
            744.4171, 745.4167, 746.4169, 747.4125, 750.4153, 752.4127, 755.4100, 756.4199, 757.4313, 761.4177, 767.4266, 768.3737, 770.3966, 772.4093, 775.4307, 779.4308, 784.3688, 786.4000, 787.4221, 788.4210, 792.4376, 795.4350, 798.4351, 800.4296, 812.4388, 815.4332, 822.4482, 825.4540, 831.4382, 832.4557, 835.4719, 837.4463, 842.5060, 844.4760, 854.4837, 856.4911, 860.4691, 862.4852,
           869.4231, 885.4465, 905.4955, 907.4991, 908.4929, 913.5700, 913.5747, 916.5284, 918.5050, 919.5053, 922.5070, 928.5117, 934.5172, 940.4840, 942.4854, 943.4289, 943.5453, 946.5259, 950.4959, 951.5076, 953.5164, 954.5388, 959.5266, 966.5410, 969.5256, 974.5395,
            976.5310, 978.5314, 979.5442, 991.5409, 993.5307, 1001.5854, 1003.5496, 1011.5262, 1014.5215, 1021.5579, 1023.5663, 1023.5700, 1031.5903, 1035.5381, 1036.5447, 1037.5573, 1039.5327, 1041.5658, 1044.5751, 1046.5897, 1051.5448, 1056.5658, 1057.6078, 1067.5753, 1073.5902, 1086.5509, 1092.5961, 1100.6071, 1106.5391, 1111.5615, 1113.5729, 1118.5818, 1120.6045, 1122.5912, 1123.5848, 1125.5823,
            1132.6047, 1134.5714, 1139.5746, 1143.6318, 1144.6497, 1145.6407, 1147.6393, 1150.6108, 1155.6215, 1157.6199, 1162.6182, 1163.6152, 1168.6215, 1173.6418, 1175.6089, 1178.6356, 1179.6157, 1181.6819, 1188.6544, 1197.6704, 1199.7006, 1208.6415, 1216.6714, 1227.6595,
            1231.6387, 1232.6447, 1234.6672, 1235.6445, 1244.6453, 1247.6211, 1248.6174, 1250.6554, 1255.6096, 1256.6531, 1261.6592, 1262.6453, 1266.6777, 1273.6260, 1275.6362, 1276.6343, 1277.6531, 1301.7079, 1303.7076, 1307.7042, 1308.6376, 1310.6146, 1312.6418, 1315.7098, 1320.6659, 1322.6886, 1323.6771, 1324.6964, 1331.7202, 1335.7318, 1339.6637, 1349.7253, 1352.7205, 1356.7230, 1360.6638, 1363.7153,
            1367.7319, 1369.7043, 1377.6947, 1379.7268, 1383.7137, 1385.7534, 1388.7404, 1390.7284, 1393.7428, 1407.7563, 1417.7010, 1421.7061, 1422.7019, 1425.7727, 1427.7742, 1429.7365, 1431.7412, 1433.7228, 1434.7446, 1437.7584, 1461.7778, 1467.7521, 1472.7633, 1475.7632,
           1477.7545, 1488.7537, 1491.7965, 1493.7579, 1500.7737, 1505.8177, 1513.8079, 1515.8213, 1517.7854, 1519.7544, 1522.7811, 1523.7953, 1529.8099, 1530.7523, 1531.7472, 1537.7974, 1539.8005, 1542.8422, 1545.8091, 1547.8051, 1549.7339, 1551.7778, 1555.8101, 1556.8109,
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            1667.8622, 1677.7988, 1680.8746, 1689.9465, 1694.7288, 1698.9225, 1699.8862, 1704.8773, 1706.8701, 1707.8302, 1710.9279, 1716.8671, 1719.9058, 1723.9011, 1725.8300, 1725.8346, 1727.8986, 1730.8931, 1737.9006, 1751.8656, 1754.8580, 1765.8463, 1766.8040, 1767.8138,
            1769.8741, 1770.3567, 1772.9315, 1774.7610, 1774.9131, 1777.8770, 1780.8777, 1783.9246, 1787.8188, 1787.8200, 1791.8137, 1793.9050,
            1795.9353, 1798.9340, 1800.9336, 1805.9069, 1809.8469, 1815.9044, 1821.9144, 1828.9227, 1837.9396, 1840.9827, 1843.9688, 1844.9012, 1852.9364, 1856.9908, 1861.8881, 1867.9218, 1880.9265, 1884.9417, 1891.9622, 1894.9313, 1896.9078, 1896.9100, 1900.9546, 1911.9130,
            1912.9154, 1916.9923, 1918.9587, 1921.9825, 1923.9718, 1925.9573, 1928.0469, 1932.0060, 1933.9950, 1937.9630, 1939.9740, 1944.0040
            1946.9679, 1949.9595, 1954.0236, 1955.9738, 1958.9556, 1960.0034, 1968.8600, 1976.9861, 1978.9910, 1981.9854, 1987.9784, 1995.9408,
             1998.9894, 2000.9926, 2008.0460, 2012.9590, 2017.9747, 2021.0170, 2026.0275, 2027.0256, 2031.0166, 2044.0123, 2047.4957,
            2060.0520, 2066.9873, 2094.0376, 2097.0454, 2102.0667, 2103.1641, 2111.0305, 2127.0930, 2139.0630, 2144.0493, 2148.1023, 2155.0950,
            2156.0796, 2160.0632, 2176.0664, 2190.9895, 2195.0774, 2202.1624, 2203.1221, 2208.0862, 2211.1042, 2216.1062, 2225.1274, 2226.1272,
           2229.0972, 2233.0984, 2239.0225, 2242.0435, 2268.1489, 2270.1287, 2277.0823, 2292.1426, 2309.0994, 2334.1719, 2342.9915, 2350.1746, 2383.9607, 2398.2400, 2400.0862, 2413.0549, 2414.1897, 2417.0959, 2497.2800, 2501.2637, 2511.1460, 2513.1421, 2528.1750, 2537.2012,
            2541.1948, 2542.1836, 2556.2058, 2562.1487, 2612.2666, 2706.2109, 2717.0869, 2767.2666, 2888.2532, 3221.1733, 3224.2917, 3312.3306
                                                                                      Expect: 1.6e+002 Matches: 18
           F1MHM8 Mass: 57999
                                                         Score: 22
           Uncharacterized protein OS=Bos taurus GN=TIGD4 PE=4 SV=2

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss
        Ions
        Peptide

        953.5164
        952.5091
        952.4866
        23.7
        338 - 346
        0
        ---
        K.FLSSVI

                                                                                                                                      K.FLSSVEGSK.E

    1023.5663
    1022.5590
    1022.5430
    15.7

    1023.5700
    1022.5627
    1022.5430
    19.3

                                                                                               50 - 58
                                                                                                                                      K.KNSLSSIMK.N + Oxidation (M)
                                                                                           50 - 58 1 9
                                                                                                                                  K.KNSLSSIMK.N + Oxidation (M)
          191 - 208 1 --- R.MLPTNTFAFKGETCSIGK.L + Oxidation (M)
81 - 96 1 --- R.TAFYTDLEEALMRWYR.I
121 - 137 2 --- K.LGHNDFKCSNGWLDRFK.S
           2017.9747 2016.9674 2016.9649 1.26
           2064.9880 2063.9807 2063.9775
                                                                               1.58
                                                                           19.2
           2094.0376 2093.0303 2092.9901
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2176.0664 2175.0591 2175.1108 -23.76 301 - 319 1 --- K.SIELAFFPSCLSSKFIAMK.Q
2203.1221 2202.1148 2202.1190 -1.90 94 - 111 1 --- R.WYRIAQCLMVPVNGPMLR.L + Oxidation (M)
2284.1990 2283.1917 2283.1470 19.6 238 - 256 2 --- R.NPRCFKGIQSLPVYYEANK.M
2334.1719 2333.1646 2333.1626 0.86 79 - 96 2 --- R.LRTAFYTDLEEALMRWYR.I - 2350.1746 2349.1673 2349.1575 4.16 79 - 96 2 --- R.LRTAFYTDLEEALMRWYR.I + Oxidation (M)
  No match to: 721.4365, 725.4001, 726.4063, 728.3681, 730.3848, 731.4017, 732.3573, 734.4151, 735.4143, 741.4101, 742.4515, 744.4171, 745.4167, 746.4169, 747.4125, 750.4153, 752.4127, 755.4100, 756.4199, 757.4313, 761.4177, 767.4266, 768.3700, 768.3737, 770.3966, 772.4093, 775.4307, 779.4308, 784.3688, 786.4000, 787.4221, 788.4210, 792.4376, 795.4350, 798.4351, 800.4296, 812.4388,
  815.4332, 822.4482, 825.4540, 831.4382, 832.4557, 835.4719, 837.4463, 842.5060, 844.4760, 854.4837, 856.4911, 860.4691, 862.4852, 869.4231, 885.4465, 905.4955, 907.4991, 908.4929, 913.5700, 913.5747, 916.5284, 918.5050, 919.5053, 922.5070, 928.5117, 934.5172,
  940.4840, 942.4854, 943.4289, 943.5453, 946.5259, 950.4959, 951.5076, 954.5388, 959.5266, 966.5410, 969.5256, 972.5305, 974.5395, 976.5310, 978.5314, 979.5442, 991.5409, 993.5307, 1001.5854, 1003.5496, 1011.5262, 1014.5215, 1021.5579, 1031.5903, 1035.5381, 1036.5447, 1037.5573, 1039.5327, 1041.5658, 1044.5751, 1045.5729, 1046.5897, 1051.5448, 1056.5658, 1057.6078, 1067.5753, 1073.5902,
  1086.5509, 1092.5961, 1100.6071, 1106.5391, 1111.5615, 1113.5729, 1118.5818, 1120.6045, 1122.5912, 1123.5848, 1125.5823, 1132.6047, 1134.5714, 1139.5746, 1143.6318, 1144.6497, 1145.6407, 1147.6393, 1150.6108, 1155.6215, 1157.6199, 1158.6685, 1162.6182, 1163.6152,
  1168.6215, 1173.6418, 1175.6089, 1178.6356, 1179.6157, 1181.6819, 1197.6704, 1199.7006, 1208.6415, 1216.6714, 1227.6595, 1231.6387, 1232.6447, 1234.6672, 1235.6445, 1244.6453, 1247.6211, 1248.6174, 1250.6554, 1255.6096, 1256.6531, 1261.6592, 1262.6453, 1266.6777,
  1273.6260, 1275.6362, 1276.6343, 1277.6531, 1301.7079, 1303.7076, 1307.7042, 1308.6376, 1310.6146, 1312.6418, 1315.7098, 1320.6659, 1322.6886, 1323.6771, 1324.6964, 1328.7089, 1331.7202, 1335.7318, 1338.6581, 1339.6637, 1349.7253, 1352.7205, 1356.7230, 1360.6638,
  1363.7153, 1365.7379, 1367.7319, 1369.7043, 1377.6947, 1379.7268, 1383.7137, 1385.7534, 1388.7404, 1390.7284, 1393.7428, 1407.7563,
  1417.7010, 1421.7061, 1422.7019, 1425.7727, 1427.7742, 1429.7365, 1431.7412, 1433.7228, 1434.7446, 1437.7584, 1461.7778, 1467.7521, 1472.7633, 1475.7632, 1477.7545, 1484.7889, 1488.7537, 1491.7965, 1493.7579, 1500.7737, 1505.8177, 1513.8079, 1515.8213, 1517.7854,
  1519.7544, 1522.7811, 1523.7953, 1529.8099, 1530.7523, 1531.7472, 1537.7974, 1539.8005, 1542.8422, 1545.8091, 1547.8051, 1549.7339, 1551.7778, 1553.8065, 1555.8101, 1556.8109, 1557.8010, 1561.8401, 1563.8109, 1565.8199, 1571.8400, 1579.7939, 1580.8077, 1583.8444,
 1581.77620, 1592.8066, 1594.8335, 1604.8323, 1605.88109, 1561.8401, 1563.8109, 1565.8109, 1571.8400, 1579.7939, 1580.8077, 1583.8444, 1587.7620, 1592.8066, 1594.8335, 1604.8323, 1605.8586, 1608.8497, 1615.8754, 1624.8062, 1628.7900, 1628.7902, 1629.7921, 1633.7985, 1640.9384, 1642.8099, 1646.8227, 1649.8447, 1657.8101, 1667.8622, 1677.7988, 1680.8766, 1689.9465, 1694.7288, 1698.9225, 1699.8862, 1704.8773, 1706.8701, 1707.8302, 1711.9279, 1716.8671, 1719.9058, 1723.9011, 1725.83300, 1725.8346, 1727.8986, 1730.8931, 1737.9006, 1751.8656, 1754.8850, 1765.8463, 1766.8040, 1767.8138, 1769.8741, 1770.3567, 1774.7610, 1774.9131, 1777.8770, 1780.8777, 1783.9246, 1787.8188, 1787.8200, 1791.8137, 1795.9353, 1798.9340, 1800.9336, 1804.9142, 1805.9069, 1809.8469, 1815.9044, 1821.9144, 1837.9396, 1840.9827,
  1843.9688, 1846.9153, 1852.9364, 1856.9908, 1861.8881, 1867.9218, 1874.9695, 1880.9265, 1884.9417, 1891.9622, 1894.9313, 1896.9078, 1896.9100, 1900.9546, 1905.9313, 1906.9501, 1908.9043, 1911.9130, 1912.9154, 1918.9587, 1921.9825, 1923.9718, 1925.9573, 1928.0469,
  1932.0060, 1933.9950, 1937.9630, 1939.9740, 1944.0040, 1946.9679, 1949.9595, 1954.0236, 1955.9738, 1958.9556, 1960.0034, 1968.8600, 1973.9845, 1976.9861, 1978.9910, 1981.9854, 1983.9884, 1987.9784, 1995.9408, 1998.9894, 2008.0460, 2012.9590, 2015.0104, 2021.0170,
   2026.0275, 2027.0256, 2031.0166, 2044.0123, 2047.4957, 2047.9515, 2052.0496, 2060.0520, 2062.0073, 2066.9873, 2097.0454, 2102.0667,
  2103.1641, 2111.0305, 2127.0930, 2139.0630, 2144.0493, 2148.1023, 2155.0950, 2156.0796, 2160.0632, 2190.9895, 2195.0774, 2199.0723, 2202.1624, 2208.0862, 2211.1042, 2216.1062, 2225.1274, 2226.1272, 2229.0972, 2233.0984, 2239.0225, 2242.0435, 2268.1489, 2270.1287,
  2271.1294, 2277.0823, 2292.1426, 2309.0994, 2342.9915, 2383.9607, 2398.2400, 2400.0862, 2413.0549, 2414.1897, 2417.0959, 2497.2800, 2501.2637, 2511.1460, 2513.1421, 2528.1750, 2537.2012, 2541.1948, 2542.1836, 2556.2058, 2562.1487, 2612.2666, 2706.2109, 2717.0869, 2767.2666, 2888.2532, 3221.1733, 3224.2917, 3312.3306, 3916.9434
                                                                                                   Expect: 1.7e+002 Matches: 13
  Troponin I, cardiac muscle OS=Bos taurus GN=TNNI3 PE=1 SV=2
   Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide
                                                                                        16.9 167 - 172 0 ---
-7.15 101 - 108 1 ---
                               745.4096
                                                          745.3970
                                                                                                                                                               K.ETLDLR.A
966.5410 965.5337 965.5406 -7.15 101 - 108 1 --- R.QLHARVDK.V
1434.7446 1433.7373 1433.7296 5.37 196 - 208 2 --- K.NIDALSGMEGRKK.K + Oxidation (M)
1565.8199 1564.8126 1564.7846 17.9 5 - 21 0 --- R.SGGSTAGDTVPAPPPVR.R
1594.8335 1593.8262 1593.8223 2.46 101 - 113 2 --- R.QLHARVDK.VDEER.Y
1680.8746 1679.8673 1679.8366 18.3 109 - 122 2 --- K.VDEERYDVEAKVTK.N
1793.9050 1792.8977 1792.8856 6.77 24 - 39 2 --- R.SSANYRAYATEPHAKK.K
1821.9144 1820.9071 1820.8917 8.45 23 - 38 2 --- R.SSANYRAYATEPHAKK.K
1874.9695 1873.9622 1873.9978 -18.99 148 - 164 2 --- R.RVRISADAMMQALIGAR.A + Oxidation (M)
1933.9950 1932.9877 1933.0237 -18.61 149 - 166 2 --- R.VRISADAMMQALIGAR.A + Oxidation (M)
1955.0774 2194.0701 2194.0913 -9.66 1 - 22 2 --- -- MADRSGGSTAGDTVPAPPPVRR.R
2203.1221 2202.1148 202.1314 -7.51 53 - 70 2 --- K.TIMLQIAKQELEREAEER.R + Oxidation (M)
No match to: 721.4365, 725.4001, 726.4063, 728.3681, 730.3848, 731.4017, 732.3573, 734.4151, 735.4143, 74
   966 5410
                            965 5337
                                                          965.5406
                                                                                    -7 15
                                                                                                                                                              R OLHARVDK V
  No match to: 721.4365, 725.4001, 726.4063, 728.3681, 730.3848, 731.4017, 732.3573, 734.4151, 735.4143, 741.4101, 742.4515, 744.4171, 745.4167, 747.4125, 750.4153, 752.4127, 755.4100, 756.4199, 757.4313, 761.4177, 767.4266, 768.3700, 768.3737, 770.3966, 772.4093, 775.4307, 779.4308, 784.3688, 786.4000, 787.4221, 788.4210, 792.4376, 795.4350, 798.4351, 800.4296, 812.4388, 815.4332,
 772.4093, 775.4307, 779.4308, 784.3688, 786.4000, 787.4221, 788.4210, 792.4376, 795.4350, 798.4351, 800.4296, 812.4388, 815.4332, 822.4482, 825.4540, 831.4382, 832.4557, 835.4719, 837.4463, 842.5060, 844.4760, 854.4837, 856.4911, 860.4691, 862.4852, 869.4231, 885.4465, 905.4955, 907.4991, 908.4929, 913.5700, 913.5747, 916.5284, 918.5050, 919.5053, 922.5070, 928.5117, 934.5172, 940.4840, 942.4854, 943.4289, 943.5453, 946.5259, 950.4959, 951.5076, 953.5164, 954.5388, 959.5266, 969.5256, 972.5305, 974.5395, 976.5310, 978.5314, 979.5442, 991.5409, 993.5307, 1001.5854, 1003.5496, 1011.5262, 1014.5215, 1021.5579, 1023.5663, 1023.5700, 1031.5903, 1035.5381, 1036.5447, 1037.5573, 1039.5327, 1041.5658, 1044.5751, 1045.5729, 1046.5897, 1051.5448, 1056.5658, 1057.6078, 1067.5753, 1073.5902, 1086.5509, 1092.5961, 1100.6071, 1106.5391, 1111.5615, 1113.5729, 1118.5818, 1120.6045, 1122.5912, 1123.5848, 1125.5823, 1132.6047, 1134.5714, 1139.5746, 1143.6318, 1144.6497, 1145.6407, 1147.6393, 1150.6108, 1157.6199, 1158.6685, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1163.6182, 1
  1163.6152, 1168.6215, 1173.6418, 1175.6089, 1178.6356, 1179.6157, 1181.6819, 1188.6544, 1197.6704, 1199.7006, 1208.6415, 1216.6714, 1227.6595, 1231.6387, 1232.6447, 1234.6672, 1235.6445, 1244.6453, 1247.6211, 1248.6174, 1250.6554, 1255.6096, 1256.6531, 1261.6592, 1262.6453, 1266.6777, 1273.6260, 1275.6362, 1276.6343, 1277.6531, 1301.7079, 1303.7076, 1307.7042, 1308.6376, 1310.6146, 1312.6418,
  1315.7098, 1320.6659, 1322.6886, 1323.6771, 1324.6964, 1328.7089, 1331.7202, 1335.7318, 1338.6581, 1339.6637, 1349.7253, 1352.7205,
   1356.7230, 1360.6638, 1363.7153, 1365.7379, 1367.7319, 1369.7043, 1377.6947, 1379.7268, 1383.7137, 1385.7534, 1388.7404, 1390.7284,
  1393.7428, 1407.7563, 1417.7010, 1421.7061, 1422.7019, 1425.7727, 1427.7742, 1429.7365, 1431.7412, 1433.7228, 1437.7584, 1461.7778, 1467.7521, 1472.7633, 1475.7632, 1477.7545, 1484.7889, 1488.7537, 1491.7965, 1493.7579, 1500.7737, 1505.8177, 1513.8079, 1515.8213,
  1517.7854, 1519.7544, 1522.7811, 1523.7953, 1529.8099, 1530.7523, 1531.7472, 1537.7974, 1539.8005, 1542.8422, 1545.8091, 1547.8051, 1549.7339, 1551.7778, 1553.8065, 1555.8101, 1556.8109, 1557.8010, 1561.8401, 1563.8109, 1571.8400, 1579.7939, 1580.8077, 1583.8444,
  1587.7620, 1592.8066, 1604.8323, 1605.8586, 1608.8497, 1615.8754, 1624.8062, 1628.7900, 1628.7921, 1633.7985, 1640.9384, 1642.8099, 1646.8297, 1649.8447, 1657.8101, 1667.8622, 1677.7988, 1689.9465, 1694.7288, 1698.9225, 1699.8862, 1704.8773, 1706.8701, 1707.8302,
   1710.9279, 1716.8671, 1719.9058, 1723.9011, 1725.8300, 1725.8346, 1727.8986, 1730.8931, 1737.9006, 1751.8656, 1754.8580, 1765.8463,
  1766.8040, 1767.8138, 1769.8741, 1770.3567, 1772.9315, 1774.7610, 1774.9131, 1777.8770, 1780.8777, 1783.9246, 1787.8188, 1787.8200, 1791.8137, 1795.9353, 1798.9340, 1800.9336, 1804.9142, 1805.9069, 1809.8469, 1815.9044, 1828.9227, 1837.9396, 1840.9827, 1843.9688,
  1844.9012, 1846.9153, 1852.9364, 1856.9908, 1861.8881, 1867.9218, 1880.9265, 1884.9417, 1891.9622, 1894.9313, 1896.9078, 1896.9100, 1900.9546, 1905.9313, 1906.9501, 1908.9043, 1911.9130, 1912.9154, 1916.9923, 1918.9587, 1921.9825, 1923.9718, 1925.9573, 1928.0469,
  1932.0060, 1937.9630, 1939.9740, 1944.0040, 1946.9679, 1949.9595, 1954.0236, 1955.9738, 1958.9556, 1960.0034, 1968.8600, 1973.9845, 1976.9861, 1978.9910, 1981.9854, 1983.9884, 1987.9784, 1995.9408, 1998.9894, 2000.9926, 2008.0460, 2012.9590, 2015.0104, 2017.9747,
  2021.0170, 2026.0275, 2027.0256, 2031.0166, 2044.0123, 2047.4957, 2047.9515, 2052.0496, 2060.0520, 2062.0073, 2064.9880, 2066.9873,
  2094.0376, 2097.0454, 2102.0667, 2103.1641, 2111.0305, 2127.0930, 2139.0630, 2144.0493, 2148.1023, 2155.0950, 2156.0796, 2160.0632, 2176.0664, 2190.9895, 2199.0723, 2202.1624, 2208.0862, 2216.1062, 2225.1274, 2226.1272, 2229.0972, 2233.0984, 2239.0225, 2242.0435,
  2268.1489, 2270.1287, 2271.1294, 2277.0823, 2284.1990, 2292.1426, 2309.0994, 2334.1719, 2342.9915, 2350.1746, 2383.9607, 2398.2400, 2400.0862, 2413.0549, 2414.1897, 2417.0959, 2497.2800, 2501.2637, 2511.1460, 2513.1421, 2528.1750, 2537.2012, 2541.1948, 2542.1836,
  2556.2058, 2562.1487, 2612.2666, 2706.2109, 2717.0869, 2767.2666, 2888.2532, 3221.1733, 3224.2917, 3312.3306, 3916.9434
  G3X720
                                                                Score: 22
                                                                                                    Expect: 1.7e+002 Matches: 12
                     Mass: 22128
  Uncharacterized protein OS=Bos taurus GN=C19orf81 PE=4 SV=1
                                                                                   ppm Start End Miss Ions Peptide
11.5 64 - 69 0 --- R.ELPCI
   Observed Mr(expt) Mr(calc)
                                                          786 4058
    787 4221
                               786 4148
                                                                                                                                                             R.ELPCIR.K
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1519.7544 1518.7471 1518.7096 24.7 30 - 42 1 --- R.ETPEEMQARSLGR.S + Oxidation (M)
1624.8062 1623.7989 1623.7610 23.4 119 - 132 1 --- R.FENMNVICGTAGRR.D
1680.8746 1679.8673 1679.8454 13.1 133 - 145 1 --- R.DRWLIMYTDFQTR.S
1852.9364 1851.9291 1851.9414 -6.62 132 - 145 2 --- R.DRWLIMYTDFQTR.S + Oxidation (M)
1911.9130 1910.9057 1910.8839 11.4 119 - 134 2 --- R.FENMNVICGTAGRDR.W + Oxidation (M)
1923.9718 1922.9645 1922.9785 -7.27 133 - 147 2 --- R.DRWLIMYTDFQTRS.L
1939.9740 1938.9667 1938.9734 -3.45 133 - 147 2 --- R.DRWLIMYTDFQTRSR.L + Oxidation (M)
2000.9926 1999.9853 1999.9633 11.0 21 - 38 1 --- R.DRGALLVDRETPEEMQAR.S
2027.0256 2026.0183 2025.9724 22.7 114 - 131 1 --- R.VSSIRFENMNVICGTAGR.R + Oxidation (M)
2203.1221 2202.1148 2202.1466 -14.45 53 - 70 2 --- R.DVIAUSELPELPCIRK.F
2414.1897 2413.1824 2413.2019 -8.09 21 - 42 2 --- R.DAGALLVDRETPEEMQARS.S
No match to: 721.4365, 725.4001, 726.4063, 728.3681, 730.3848, 731.4017, 732.3573, 734.4151, 735.4143
   No match to: 721.4365, 725.4001, 726.4063, 728.3681, 730.3848, 731.4017, 732.3573, 734.4151, 735.4143, 741.4101, 742.4515,
    744.4171, 745.4167, 746.4169, 747.4125, 750.4153, 752.4127, 755.4100, 756.4199, 757.4313, 761.4177, 767.4266, 768.3700, 768.3737, 770.3966, 772.4093, 775.4307, 779.4308, 784.3688, 786.4000, 788.4210, 792.4376, 795.4350, 798.4351, 800.4296, 812.4388, 815.4332,
  770.3966, 772.4093, 775.4307, 779.4308, 784.3688, 786.4000, 788.4210, 792.4376, 795.4350, 798.4351, 800.4296, 812.4388, 815.4332, 822.4482, 825.4540, 831.4382, 832.4557, 835.4719, 837.4463, 842.5060, 844.4760, 854.4837, 856.4911, 860.4691, 862.4852, 869.4231, 885.4465, 905.4955, 907.4991, 908.4929, 913.5700, 913.5747, 916.5284, 918.5050, 919.5053, 922.5070, 928.5117, 934.5172, 940.4840, 942.4854, 943.4289, 943.5453, 946.5259, 950.4959, 951.5076, 953.5164, 954.5388, 959.5266, 966.5410, 969.5256, 972.5305, 974.5395, 976.5310, 978.5314, 979.5442, 991.5409, 993.5307, 1001.5854, 1003.5496, 1011.5262, 1014.5215, 1021.5579, 1023.5663, 1023.5700, 1031.5903, 1035.5381, 1036.5447, 1037.5573, 1039.5327, 1041.5658, 1044.5751, 1045.5729, 1046.5897, 1051.5448, 1056.5658, 1057.6078, 1067.5753, 1073.5902, 1086.5509, 1092.5961, 1100.6071, 1106.5391, 1111.5615, 1113.5729, 1118.5818, 1120.6045, 1122.5912, 1123.5848, 1125.6182, 1163.6152, 1168.6215, 1173.6418, 1175.6089, 1178.6356, 1179.6157, 1181.6819, 1188.6544, 1197.6704, 1199.7006, 1208.6415, 1261.6714, 1227.6595, 1231.6387, 1232.6447, 1234.6672, 1235.6445, 1244.6453, 1247.6211, 1248.6174, 1250.6554, 1255.6096, 1256.6531, 1261.6714, 1227.6595, 1231.6387, 1232.6447, 1234.6672, 1235.6445, 1244.6453, 1247.6211, 1248.6174, 1250.6554, 1255.6096, 1256.6531, 1261.6714, 1277.6595, 1231.6387, 1237.6648, 1277.6632, 1278.6382, 1278.6382, 1278.6382, 1278.6382, 1278.6382, 1278.6382, 1278.6382, 1278.6382, 1278.6382, 1278.6382, 1278.6382, 1278.6382, 1278.6382, 1278.6382, 1278.6382, 1278.6382, 1278.6382, 1278.6382, 1278.6382, 1278.6382, 1278.6382, 1278.6382, 1278.6382, 1278.6382, 1278.6382, 1278.6382, 1278.6382, 1278.6382, 1278.6382, 1278.6382, 1278.6382, 1278.6382, 1278.6382, 1278.6382, 1278.6382, 1278.6382, 1278.6382, 1278.6382, 1278.6382, 1278.6382, 1278.6382, 1278.6382, 1278.6382, 1278.6382, 1278.6382, 1278.6382, 1278.6382, 1278.6382, 1278.6382, 1278.6382, 1278.6382, 1278.6382, 1278.6382, 1278.6382, 1278.6382, 1278.6382, 1278.6382, 1278.6382, 1278.6382, 1278.6382, 1278.6382, 1278.6382, 12
     1261.6592, 1262.6453, 1266.6777, 1273.6260, 1275.6362, 1276.6343, 1277.6531, 1301.7079, 1303.7076, 1307.7042, 1308.6376, 1310.6146,
   1312.6418, 1315.7098, 1320.6659, 1322.6886, 1323.6771, 1324.6964, 1328.7089, 1331.7202, 1335.7318, 1338.6581, 1339.6637, 1349.7253, 1352.7205, 1356.7230, 1360.6638, 1363.7153, 1365.7379, 1367.7319, 1369.7043, 1377.6947, 1379.7268, 1383.7137, 1385.7534, 1388.7404,
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   1513.8079, 1515.8213, 1517.7854, 1522.7811, 1523.7953, 1529.8099, 1530.7523, 1531.7472, 1537.7974, 1539.8005, 1542.8422, 1545.8091, 1547.8051, 1549.7339, 1551.7778, 1553.8065, 1555.8101, 1556.8109, 1557.8010, 1561.8401, 1563.8109, 1565.8199, 1571.8400, 1579.7939,
   1580.8077, 1583.8444, 1587.7620, 1592.8066, 1594.8335, 1604.8323, 1605.8586, 1608.8497, 1615.8754, 1628.7900, 1628.7921, 1633.7985, 1640.9384, 1642.8099, 1646.8297, 1649.8447, 1657.8101, 1667.8622, 1677.7988, 1689.9465, 1694.7288, 1698.9225, 1699.8862, 1704.8773, 1706.8701, 1707.8302, 1710.9279, 1716.8671, 1719.9058, 1723.9011, 1725.8300, 1725.8346, 1727.8986, 1730.8931, 1737.9006, 1751.8656,
    1754.8580, 1765.8463, 1766.8040, 1767.8138, 1769.8741, 1770.3567, 1772.9315, 1774.7610, 1774.9131, 1777.8770, 1780.8777,
                                                                                                                                                                                                                                                                                                                                                                                                                                   1783.9246
    1787.8188, 1787.8200, 1791.8137, 1793.9050, 1795.9353, 1798.9340, 1800.9336, 1804.9142, 1805.9069, 1809.8469, 1815.9044, 1821.9144,
   1828.9227, 1837.9396, 1840.9827, 1843.9688, 1844.9012, 1846.9153, 1856.9908, 1861.8881, 1867.9218, 1874.9695, 1880.9265, 1884.49417, 1891.9622, 1894.9313, 1896.9078, 1896.9100, 1900.9546, 1905.9313, 1906.9501, 1908.9043, 1912.9154, 1916.9923, 1918.9587, 1921.9825, 1925.9573, 1928.0469, 1932.0060, 1933.9950, 1937.9630, 1944.0040, 1946.9679, 1949.9595, 1954.0236, 1955.9738, 1958.9556, 1960.0034,
   1968.8600, 1973.9845, 1976.9861, 1978.9910, 1981.9854, 1983.9884, 1987.9784, 1995.9408, 1998.9894, 2008.0460, 2012.9590, 2015.0104, 2017.9747, 2021.0170, 2026.0275, 2031.0166, 2044.0123, 2047.4957, 2047.9515, 2052.0496, 2060.0520, 2062.0073, 2064.9880, 2066.9873,
  2094.0376, 2097.0454, 2102.0667, 2103.1641, 2111.0305, 2127.0930, 2139.0630, 2144.0493, 2148.1023, 2155.0950, 2156.0796, 2160.0632, 2176.0664, 2190.9895, 2195.0774, 2199.0723, 2202.1624, 2208.0862, 2211.1042, 2216.1062, 2225.1274, 2226.1272, 2229.0972, 2233.0984,
  2239.0225, 2242.0435, 2268.1489, 2270.1287, 2271.1294, 2277.0823, 2284.1990, 2292.1426, 2309.0994, 2334.1719, 2342.9915, 2350.1746, 2383.9607, 2398.2400, 2400.0862, 2413.0549, 2417.0959, 2497.2800, 2501.2637, 2511.1460, 2513.1421, 2528.1750, 2537.2012, 2541.1948, 2542.1836, 2556.2058, 2562.1487, 2612.2666, 2706.2109, 2717.0869, 2767.2666, 2888.2532, 3221.1733, 3224.2917, 3312.3306, 3916.9434
                                   Mass: 26366 Score: 21
                                                                                                                                     Expect: 1.8e+002 Matches: 12
   Multiple myeloma tumor-associated protein 2 homolog OS=Bos taurus GN=MMTAG2 PE=2 SV=1
Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide
  No match to: 721.4365, 725.4001, 726.4063, 728.3681, 730.3848, 731.4017, 732.3573, 734.4151, 735.4143, 741.4101, 742.4515, 744.4171, 745.4167, 746.4169, 747.4125, 750.4153, 752.4127, 755.4100, 756.4199, 757.4313, 767.4266, 768.3700, 768.3737, 770.3966, 772.4093, 775.4307, 779.4308, 784.3688, 786.4000, 787.4221, 788.4210, 792.4376, 795.4350, 798.4351, 800.4296, 812.4388, 815.4332,
  772.4093, 775.4307, 779.4308, 784.3688, 786.4000, 787.4221, 788.4210, 792.4376, 795.4350, 798.4351, 800.4296, 812.4388, 815.4332, 822.4482, 825.4540, 831.4382, 832.4557, 835.4719, 837.4463, 842.5060, 844.4760, 854.4837, 856.4911, 860.4691, 862.4852, 869.4231, 885.4465, 905.4955, 907.4991, 908.4929, 913.5700, 913.5747, 916.5284, 918.5050, 919.5053, 928.5117, 934.5172, 940.4840, 942.4854, 943.4289, 943.5453, 946.5259, 950.4959, 951.5076, 953.5164, 954.5388, 959.5266, 966.5410, 969.5256, 972.5305, 974.5395, 976.5310, 978.5314, 979.5442, 991.5409, 993.5307, 1001.5854, 1003.5496, 1011.5262, 1014.5215, 1021.5579, 1023.5663, 1023.5700, 1031.5903, 1035.5381, 1036.5447, 1037.5573, 1039.5327, 1041.5658, 1044.5751, 1045.5729, 1046.5897, 1051.5448, 1056.5658, 1057.6078, 1067.5753, 1073.5902, 1086.5509, 1092.5961, 1100.6071, 1106.5391, 1111.5615, 1113.5729, 1118.5818, 1120.6045, 1122.5912, 1123.5848, 1125.5823, 1132.6047, 1134.5714, 1139.5746, 1143.6318, 1144.6497, 1145.6407, 1147.6393, 1150.6108, 1157.6199, 1158.6685, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1162.6182, 1
  1132.6047, 1134.5714, 1139.5746, 1143.6318, 1144.6497, 1145.6407, 1147.6393, 1150.6108, 1155.6215, 1157.6199, 1158.6685, 1162.6182, 1163.6152, 1168.6215, 1173.6418, 1175.6089, 1178.6356, 1179.6157, 1181.6819, 1188.6544, 1197.6704, 1208.6415, 1216.6714, 1227.6595, 1231.6387, 1232.6447, 1234.6672, 1235.6445, 1244.6453, 1247.6211, 1248.6174, 1250.6554, 1255.6096, 1256.6531, 1261.6592, 1262.6453, 1266.6777, 1273.6260, 1275.6362, 1276.6343, 1277.6531, 1301.7079, 1303.7076, 1307.7042, 1308.6376, 1310.6146, 1312.6418, 1315.7098, 1320.6659, 1323.6771, 1324.6964, 1328.7089, 1331.7202, 1335.7318, 1338.6581, 1339.6637, 1349.7253, 1352.7205, 1356.7230, 1360.6638, 1363.7153, 1365.7379, 1367.7319, 1369.7043, 1377.6947, 1379.7268, 1383.7137, 1383.7534, 1388.7404, 1390.7284, 1393.7428, 1407.7553, 1417.7010, 1421.7061, 1422.7019, 1425.7727, 1427.7742, 1429.7365, 1431.7412, 1433.7228, 1434.7446, 1437.7584, 1461.7778, 1467.7521, 1472.7633, 1475.7632, 1477.7545, 1484.7889, 1488.7537, 1491.7965, 1493.7579, 1500.7737, 1505.8177, 1513.8079, 1515.8213, 1517.7854, 1482.7863
   1519.7544, 1523.7953, 1529.8099, 1530.7523, 1531.7472, 1537.7974, 1539.8005, 1542.8422, 1545.8091, 1547.8051, 1549.7339, 1553.8065, 1555.8101, 1556.8109, 1557.8010, 1561.8401, 1563.8109, 1571.8400, 1579.7939, 1580.8077, 1583.8444, 1587.7620, 1592.8066, 1594.8335, 1604.8323, 1605.8586, 1608.8497, 1615.8754, 1624.8062, 1628.7900, 1628.7921, 1633.7985, 1640.9384, 1642.8099, 1646.8297, 1649.8447,
   1657.8101, 1667.8622, 1677.7988, 1680.8746, 1689.9465, 1694.7288, 1698.9225, 1699.8862, 1704.8773, 1706.8701, 1707.8302, 1710.9279, 1716.8671, 1719.9058, 1723.9011, 1725.8300, 1725.8346, 1727.8986, 1730.8931, 1737.9006, 1751.8656, 1754.8580, 1765.8463, 1766.8040,
   1767.8138, 1769.8741, 1770.3567, 1772.9315, 1774.7610, 1774.9131, 1777.8770, 1780.8777, 1783.9246, 1787.8188, 1787.8200, 1791.8137, 1793.9050, 1795.9353, 1798.9340, 1800.9336, 1805.9069, 1809.8469, 1815.9044, 1821.9144, 1828.9227, 1837.9396, 1840.9827, 1843.9688,
   1844.9012, 1846.9153, 1852.9364, 1856.9908, 1861.8881, 1867.9218, 1874.9695, 1880.9265, 1884.9417, 1891.9622, 1894.9313, 1896.9078,
  1896.9100, 1900.9546, 1905.9313, 1906.9501, 1908.9043, 1911.9130, 1912.9154, 1916.9923, 1918.9587, 1921.9825, 1923.9718, 1925.9573, 1928.0469, 1932.0060, 1933.9950, 1937.9630, 1939.9740, 1944.0040, 1946.9679, 1949.9595, 1954.0236, 1955.9738, 1958.9566, 1960.0034, 1968.8600, 1973.9845, 1976.9861, 1981.9854, 1983.9884, 1987.9784, 1995.9408, 1998.9894, 2000.9926, 2012.9590, 2015.0104, 2017.9747, 2021.0170, 2026.0275, 2027.0256, 2031.0166, 2044.0123, 2047.4957, 2047.9515, 2052.0496, 2060.0520, 2062.0073, 2064.9880, 2066.9873,
  2094.0376, 2097.0454, 2102.0667, 2103.1641, 2111.0305, 2127.0930, 2139.0630, 2144.0493, 2148.1023, 2155.0950, 2156.0796, 2160.0632, 2190.9895, 2195.0774, 2199.0723, 2202.1624, 2203.1221, 2208.0862, 2211.1042, 2216.1062, 2225.1274, 2226.1272, 2229.0972, 2233.0984,
  2239.0225, 2242.0435, 2268.1489, 2270.1287, 2271.1294, 2277.0883, 2284.1990, 2292.1426, 2309.0994, 2334.1719, 2342.9915, 2350.1746, 2383.9607, 2398.2400, 2400.0862, 2413.0549, 2414.1897, 2497.2800, 2501.2637, 2511.1460, 2513.1421, 2528.1750, 2537.2012, 2541.1948, 2542.1836, 2556.2058, 2562.1487, 2612.2666, 2706.2109, 2717.0869, 2767.2666, 2888.2532, 3221.1733, 3224.2917, 3312.3306, 3916.9434
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Mass: 8166
                                                                                                              Expect: 1.8e+002 Matches: 10
            Q28024
                                                                            Score: 21
                Guanine nucleotide-binding protein G(I)/G(S)/G(O) subunit gamma-12 OS=Bos taurus GN=GNG12 PE=1 SV=2
                Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide
                                                                                                                  67 - 72 1 --- K.KTCTIL.-
65 - 72 2 --- K.DKKTCTIL.-
             735.4143 734.4070 734.3997 9.96 67 - 72 1 --- K.KTCTIL.-
978.5314 977.5241 977.5246 2.59 65 - 72 2 --- K.DKKTCTIL.-
1092.5961 1091.5888 1091.5645 22.3 23 - 31 1 --- R.MEASIERIK.V + Oxidation (M)
1579.7939 1578.7866 1578.7784 5.23 1 - 15 1 --- M.SSKTASTNNIAQAR.R
1604.8323 1603.8250 1603.8390 -8.71 2 - 16 2 --- M.SSKTASTNNIAQAR.R
1751.8656 1750.8583 1750.8744 -9.18 1 - 16 2 --- M.SSKTASTNNIAQAR.T + Oxidation (M)
1772.9315 1771.9242 1771.8815 24.1 49 - 64 0 --- R.NDPLLMGIPTSENPFK.D
160.0632 2159.0559 2159.0932 -17.28 49 - 67 2 --- R.NDPLLMGIPTSENPFKDK.T + Oxidation (M)
1795.0774 2194.0701 2194.0510 8.70 30 - 48 2 --- R.IKVSKASADLMSYCEEHAR.N
1798.08454 10.772.4365. 725.4001. 726.4063. 728.3681. 730.3848. 731.4017, 732.3573, 734.4151, 741.4101,
                                            734.4070
                                                                       734.3997
               No match to: 721.4365, 725.4001, 726.4063, 728.3681, 730.3848, 731.4017, 732.3573, 734.4151, 741.4101, 742.4515, 744.4171, 745.4167, 746.4169, 747.4125, 750.4153, 752.4127, 755.4100, 756.4199, 757.4313, 761.4177, 767.4266, 768.3700, 768.3737, 770.3966, 772.4093, 775.4307, 779.4308, 784.3688, 786.4000, 787.4221, 788.4210, 792.4376, 795.4350, 798.4351, 800.4296, 812.4388, 815.4332,
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               1168.6215, 1173.6418, 1175.6089, 1178.6356, 1179.6157, 1181.6819, 1188.6544, 1197.6704, 1199.7006, 1208.6415, 1216.6714, 1227.6595, 1231.6387, 1232.6447, 1234.6672, 1235.6445, 1244.6453, 1247.6211, 1248.6174, 1250.6554, 1255.6096, 1256.6531, 1261.6592, 1262.6453,
               1266.6777, 1273.6260, 1275.6362, 1276.6343, 1277.6531, 1301.7079, 1303.7076, 1307.7042, 1308.6376, 1310.6146, 1312.6418, 1315.7099, 1320.6659, 1322.6886, 1323.6771, 1324.6964, 1328.7089, 1331.7202, 1335.7318, 1338.6581, 1339.6637, 1349.7253, 1352.7205, 1356.7230,
                1360.6638, 1363.7153, 1365.7379, 1367.7319, 1369.7043, 1377.6947, 1379.7268, 1383.7137, 1385.7534, 1388.7404, 1390.7284, 1393.7428,
               1407.7563, 1417.7010, 1421.7061, 1422.7019, 1425.7727, 1427.7742, 1429.7365, 1431.7412, 1433.7228, 1434.7446, 1437.7584, 1461.7778,
               1467.7521, 1472.7633, 1475.7632, 1477.7545, 1484.7889, 1488.7537, 1491.7965, 1493.7579, 1500.7737, 1505.8177, 1513.8079, 1515.8213,
               1517.7854, 1519.7544, 1522.7811, 1523.7953, 1529.8099, 1530.7523, 1531.7472, 1537.7974, 1539.8005, 1542.8422, 1545.8091, 1547.8051, 1549.7339, 1551.7778, 1553.8065, 1555.8101, 1556.8109, 1557.8010, 1561.8401, 1563.8109, 1565.8199, 1571.8400, 1580.8077, 1583.8444,
                1587.7620, 1592.8066, 1594.8335, 1605.8586, 1608.8497, 1615.8754, 1624.8062, 1628.7900, 1628.7921, 1633.7985, 1640.9384, 1642.8099,
               1646.8297, 1649.8447, 1657.8101, 1667.8622, 1677.7988, 1680.8746, 1689.9465, 1694.7288, 1698.9225, 1699.8862, 1704.8773, 1706.8701,
                1707.8302, 1710.9279, 1716.8671, 1719.9058, 1723.9011, 1725.8300, 1725.8346, 1727.8986, 1730.8931, 1737.9006, 1754.8580, 1765.8463,
               1766.8040, 1767.8138, 1769.8741, 1770.3567, 1774.7610, 1774.9131, 1777.8770, 1780.8777, 1783.9246, 1787.8188, 1787.8200, 1791.8137, 1793.9050, 1795.9353, 1798.9340, 1800.9336, 1804.9142, 1805.9069, 1809.8469, 1815.9044, 1821.9144, 1828.9227, 1837.9396, 1840.9827,
               1843.9688, 1844.9012, 1846.9153, 1852.9364, 1856.9908, 1861.8881, 1867.9218, 1874.9695, 1880.9265, 1884.9417, 1891.9622, 1894.9313, 1896.9078, 1896.9100, 1900.9546, 1905.9313, 1906.9501, 1908.9043, 1911.9130, 1912.9154, 1916.9923, 1918.9587, 1921.9825, 1923.9718,
               1925.9573, 1928.0469, 1932.0060, 1933.9950, 1937.9630, 1939.9740, 1944.0040, 1946.9679, 1949.9595, 1954.0236, 1955.9738, 1958.9556, 1960.0034, 1968.8600, 1973.9845, 1976.9861, 1978.9910, 1981.9854, 1983.9884, 1987.9784, 1995.9408, 1998.9894, 2000.9926, 2008.0460,
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               2062.0073, 2064.9880, 2066.9873, 2094.0376, 2097.0454, 2102.0667, 2103.1641, 2111.0305, 2127.0930, 2139.0630, 2144.0493, 2148.1023, 2155.0950, 2156.0796, 2176.0664, 2190.9895, 2199.0723, 2202.1624, 2203.1221, 2208.0862, 2216.1062, 2225.1274, 2226.1272, 2229.0972,
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               3312.3306. 3916.9434
                                                                                                        Expect: 1.8e+002 Matches: 26
23. E1BD03 Mass: 66968 Score: 21
               Uncharacterized protein OS=Bos taurus GN=PPM1D PE=3 SV=2

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss
        Ions
        Peptide

        1044.5751
        1043.5678
        1043.5876
        -18.97
        239
        - 247
        1
        ---
        K.SGVNRVVWK.R

        1045.5729
        1044.5656
        1044.5763
        -10.23
        358
        - 364
        2
        ---
        R.WRQRMLR.A

             1044.5752 1044.5656 1044.5763 -10.23 358 - 364 2 --- R.WRQRMLR.A

1073.5902 1072.5829 1072.5877 -4.42 459 - 469 0 --- R.GNVQAAVISSK.D

1157.6199 1156.6126 1156.6393 -23.06 118 - 126 1 --- R.EHLWGFIKK.Q

1188.6544 1187.6471 1187.6332 11.7 512 - 522 1 --- K.NVKISSPGQMK.A

1335.7318 1334.7245 1334.6942 22.7 126 - 137 2 --- K.KQRGFTSSEPAK.V

1433.7228 1432.7155 1432.7231 -5.32 537 - 549 1 --- R.TLEESNSGPLMKK.H

1461.7778 1460.7705 1460.7421 19.5 145 - 156 1 --- K.GFLACHLAMWKK.L

1477.7545 1476.7472 1476.7370 6.93 145 - 156 1 --- K.GFLACHLAMWKK.L + Oxidation (M)

1605.8586 1604.8513 1604.8319 12.1 144 - 156 2 --- R.KGFLACHLAMWKK.L + Oxidation (M)
             1615.8754 1614.8681 1614.8325 22.0 558 - 573 1 --- R.SSGAQPASLPTTSQRK.N

1633.7985 1632.7912 1632.8253 -20.90 228 - 243 1 --- R.IEGLGGSVMNKSGVNR.V + Oxidation (M)

1840.9827 1839.9754 1839.9479 14.9 2 - 19 1 --- M.AGLYSLGVSVFSDQGGRK.Y

1900.9546 1899.9473 1899.9836 -19.10 512 - 528 2 --- K.NVKISSPGQMKAQEVER.T
             R.GLKMYVAHVGDSGVVLGIQDDPK.D + Oxidation (M)
              2414.1897 2413.1824 2413.2312 -20.20 182 - 204 1 --- R.GLKMYVAHVGDSGVVLGIQDDPK.D + Oxidation (M)

No match to: 721.4365, 725.4001, 726.4063, 728.3681, 730.3848, 731.4017, 732.3573, 734.4151, 735.4143, 741.4101, 742.4515,

744.4171, 745.4167, 746.4169, 747.4125, 750.4153, 752.4127, 755.4100, 756.4199, 757.4313, 761.4177, 767.4266, 768.3700, 768.3737,

770.3966, 772.4093, 775.4307, 779.4308, 784.3688, 786.4000, 787.4221, 788.4210, 792.4376, 795.4350, 798.4351, 800.4296, 812.4388,

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940.4840, 942.4854, 943.4289, 943.5453, 946.5259, 950.4959, 951.5076, 953.5164, 954.5388, 959.5266, 966.5410, 969.5256, 972.5305,

974.5385, 976.5310, 978.5314, 979.5442, 991.5409, 993.5307, 1001.5854, 1003.5496, 1011.5262, 1014.5215, 1021.5579, 1023.5663,
               1023.5700, 1031.5903, 1035.5381, 1036.5447, 1037.5573, 1039.5327, 1041.5658, 1046.5897, 1051.5448, 1056.5658, 1057.6078, 1067.5753,
               1086.5509, 1092.5961, 1100.6071, 1106.5391, 1111.5615, 1113.5729, 1118.5818, 1120.6045, 1122.5912, 1123.5848, 1125.5823, 1132.6047, 1134.5714, 1139.5746, 1143.6318, 1144.6497, 1145.6407, 1147.6393, 1150.6108, 1155.6215, 1158.6685, 1162.6182, 1163.6152, 1168.6215,
               1173.6418, 1175.6089, 1178.6356, 1179.6157, 1181.6819, 1197.6704, 1199.7006, 1208.6415, 1216.6714, 1227.6595, 1231.6387, 1232.6447, 1234.6672, 1235.6445, 1244.6453, 1247.6211, 1248.6174, 1250.6554, 1255.6096, 1256.6531, 1261.6592, 1262.6453, 1266.6777, 1273.6260, 1275.6362, 1276.6343, 1277.6531, 1301.7079, 1303.7076, 1307.7042, 1308.6376, 1310.6146, 1312.6418, 1315.7098, 1320.6659, 1322.6886,
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1323.6771, 1324.6964, 1328.7089, 1331.7202, 1338.6581, 1339.6637, 1349.7253, 1352.7205, 1356.7230, 1360.6638, 1363.7153, 1365.7379, 1367.7319, 1369.7043, 1377.6947, 1379.7268, 1383.7137, 1385.7534, 1388.7404, 1390.7284, 1393.7428, 1407.7563, 1417.7010, 1421.7061,
 1422.7019, 1425.7727, 1427.7742, 1429.7365, 1431.7412, 1434.7446, 1437.7584, 1467.7521, 1472.7633, 1475.7632, 1484.7889, 1488.7537,
 1491,7965, 1493,7579, 1500,7737, 1505,8177, 1513,8079, 1515,8213, 1517,7854, 1519,7544, 1522,7811, 1523,7953, 1529,8099, 1530,7523,
  1531.7472, 1537.7974, 1539.8005, 1542.8422, 1545.8091, 1547.8051, 1549.7339, 1551.7778, 1553.8065, 1555.8101, 1556.8109,
 1561.8401, 1563.8109, 1565.8199, 1571.8400, 1579.7939, 1580.8077, 1583.8444, 1587.7620, 1592.8066, 1594.8335, 1604.8323, 1608.8497, 1624.8062, 1628.7900, 1628.7921, 1640.9384, 1642.8099, 1646.8297, 1649.8447, 1657.8101, 1667.8622, 1677.7988, 1680.8746, 1689.9465,
 1694.7288, 1698.9225, 1699.8862, 1704.8773, 1706.8701, 1707.8302, 1710.9279, 1716.8671, 1719.9058, 1723.9011, 1725.8300, 1725.8346, 1727.8986, 1730.8931, 1737.9006, 1751.8656, 1754.8580, 1765.8463, 1766.8040, 1767.8138, 1769.8741, 1770.3567, 1772.9315, 1774.7610,
 1774.9131, 1777.8770, 1780.8777, 1783.9246, 1787.8188, 1787.8200, 1791.8137, 1793.9050, 1795.9353, 1798.9340, 1800.9336, 1804.9142,
 1805.9069, 1809.8469, 1815.9044, 1821.9144, 1828.9227, 1837.9396, 1843.9688, 1844.9012, 1846.9153, 1852.9364, 1856.9908, 1861.8881, 1867.9218, 1874.9695, 1880.9265, 1884.9417, 1891.9622, 1894.9313, 1896.9078, 1896.9100, 1905.9313, 1906.9501, 1908.9043, 1911.9130,
 1912.9154, 1921.9825, 1923.9718, 1925.9573, 1928.0469, 1933.9950, 1937.9630, 1939.9740, 1944.0040, 1946.9679, 1949.9595, 1954.0236, 1955.9738, 1958.9556, 1960.0034, 1968.8600, 1973.9845, 1976.9861, 1978.9910, 1981.9854, 1983.9884, 1995.9408, 1998.9894, 2000.9926,
 2008.0460, 2012.9590, 2017.9747, 2021.0170, 2026.0275, 2027.0256, 2031.0166, 2044.0123, 2047.4957, 2047.9515, 2052.0496, 2060.0520, 2062.0073, 2064.9880, 2094.0376, 2097.0454, 2103.1641, 2111.0305, 2127.0930, 2139.0630, 2144.0493, 2155.0950, 2156.0796, 2160.0632,
 2076.0664, 2190.9895, 2195.0774, 2199.0723, 2203.1221, 2208.0862, 2211.1042, 2216.1062, 2225.1274, 2226.1272, 2229.0972, 2239.0225, 2242.0435, 2268.1489, 270.1287, 2271.1294, 2277.0823, 2284.1990, 2292.1426, 2309.0994, 2334.1719, 2342.9915, 2350.1746, 2383.9607, 2400.0862, 2413.0549, 2417.0959, 2497.2800, 2501.2637, 2511.1460, 2513.1421, 2528.1750, 2537.2012, 2541.1948, 2542.1836, 2556.2058, 2562.1487, 2612.2666, 2706.2109, 2717.0869, 2767.2666, 2888.2532, 3221.1733, 3224.2917, 3312.3306, 3916.9434
 F1N6S6
                 Mass: 28266
                                             Score: 21
                                                                          Expect: 2.1e+002 Matches: 13
 Placental prolactin-related protein 3 OS=Bos taurus GN=PRP3 PE=3 SV=2 ^{\circ}
                                                              ppm Start End Miss Ions Peptide
  Observed Mr(expt) Mr(calc)
  745.4167
                                                                  23.6 2 - 8 0 --- M.APAPSFR.G
                       744.4094
                                            744.3919
1349.7253 1348.7180 1348.7503 -23.95 172 - 182 0 --- R.QFSQVIYPVIR.T
1360.6638 1359.6565 1359.6427 10.1 212 - 221 1 --- K.LFMCLYRDSR.K
1488.7537 1487.7464 1487.7377 5.86 212 - 222 2 --- K.LFMCLYRDSR.K
1547.8051 1546.7978 1546.7773 13.3 109 - 121 2 --- R.EKALRMNNEDLSK.W
1563.8109 1562.8036 1562.7722 20.1 109 - 121 2 --- R.EKALRMNNEDLSK.W + Oxidation (M)
1751.8656 1750.8583 1750.8323 14.8 206 - 218 1 --- R.HSAFYKLFMCLYR.D + Oxidation (M)
1867.9218 1866.9145 1866.9244 -5.31 140 - 156 1 --- K.DLOSMKEVSDTILSSAK.E + Oxidation (M)
1921.9825 1920.9752 1920.9727 1.32 157 - 171 2 --- K.ENMRKIEELQAFIER.Q + Oxidation (M)
1923.9718 1922.9645 1922.9374 14.1 189 - 205 0 --- R.IYMSGLASLVSNDEDVR.H
1983.9884 1982.9811 1982.9864 -2.64 2 - 18 1 --- M.APAPSFRGHQWTYNPVR.G
2094.0376 2093.0303 2092.9975 15.7 206 - 221 2 --- R.HSAFYKLFMCLYR.DRSR.K
2414.1897 2413.1824 2413.1465 14.9 140 - 160 2 --- K.DLOSMKEVSDTILSSAKENMR.K + 2 Oxidation (M)
No match tc: 721.4365 725.4001 726.4063, 728.3681, 730.3848, 731.4017, 732.3573, 734.4151, 735.4143, 741
                                                                              172 - 182 0 --- R.QFSQVIYPVIR.T
 1349.7253 1348.7180 1348.7503 -23.95
 No match to: 721.4365, 725.4001, 726.4063, 728.3681, 730.3848, 731.4017, 732.3573, 734.4151, 735.4143, 741.4101, 742.4515, 744.4171, 746.4169, 747.4125, 750.4153, 752.4127, 755.4100, 756.4199, 757.4313, 761.4177, 767.4266, 768.3700, 768.3737, 770.3966, 772.4093, 775.4307, 779.4308, 784.3688, 786.4000, 787.4221, 788.4210, 792.4376, 795.4350, 798.4351, 800.4296, 812.4388, 815.4332, 822.4482, 825.4540, 831.4382, 832.4557, 835.4719, 837.4463, 842.5060, 844.4760, 854.4837, 856.4911, 860.4691, 862.4852, 869.4231,
 885.4465, 905.4955, 907.4991, 908.4929, 913.5700, 913.5747, 916.5284, 918.5050, 919.5053, 922.5070, 928.5117, 934.5172, 940.4840, 942.4854, 943.4289, 943.5453, 946.5259, 950.4959, 951.5076, 953.5164, 954.5388, 959.5266, 966.5410, 969.5256, 972.5305, 974.5395, 976.5310, 978.5314, 979.5442, 991.5409, 993.5307, 1001.5854, 1003.5496, 1011.5262, 1014.5215, 1021.5579, 1023.5663, 1023.5700,
 1031.5903, 1035.5381, 1036.5447, 1037.5573, 1039.5327, 1041.5658, 1044.5751, 1045.5729, 1046.5897, 1051.5448, 1056.5658, 1057.6078, 1067.5753, 1073.5902, 1086.5509, 1092.5961, 1100.6071, 1106.5391, 1111.5615, 1113.5729, 1118.5818, 1120.6045, 1122.5912, 1123.5848,
 1125.5823, 1132.6047, 1134.5714, 1139.5746, 1143.6318, 1144.6497, 1145.6407, 1147.6393, 1150.6108, 1155.6215, 1157.6199, 1158.6685, 1162.6182, 1163.6152, 1168.6215, 1173.6418, 1175.6089, 1178.6356, 1179.6157, 1181.6819, 1188.6544, 1197.6704, 1199.7006, 1208.6415,
  1216.6714, 1227.6595, 1231.6387, 1232.6447, 1234.6672, 1235.6445, 1244.6453, 1247.6211, 1248.6174, 1250.6554, 1255.6096, 1256.6531,
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 1356.7230, 1363.7153, 1365.7379, 1367.7319, 1369.7043, 1377.6947, 1379.7268, 1383.7137, 1385.7534, 1388.7404, 1390.7284, 1393.7428, 1407.7563, 1417.7010, 1421.7061, 1422.7019, 1425.7727, 1427.7742, 1429.7365, 1431.7412, 1433.7228, 1434.7446, 1437.7584, 1461.7778,
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 1553.8065, 1555.8101, 1556.8109, 1557.8010, 1561.8401, 1565.8199, 1571.8400, 1579.7939, 1580.8077, 1583.8444, 1587.7620, 1592.8066,
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  1649.8447, 1657.8101, 1667.8622, 1677.7988, 1680.8746, 1689.9465, 1694.7288, 1698.9225, 1699.8862, 1704.8773, 1706.8701, 1707.8302,
 1710.9279, 1716.8671, 1719.9058, 1723.9011, 1725.8300, 1725.8346, 1727.8986, 1730.8931, 1737.9006, 1754.8580, 1765.8463, 1766.8040, 1767.8138, 1769.8741, 1770.3567, 1772.9315, 1774.7610, 1774.9131, 1777.8770, 1780.8777, 1783.9246, 1787.8188, 1787.8200, 1791.8137,
  1793.9050, 1795.9353, 1798.9340, 1800.9336, 1804.9142, 1805.9069, 1809.8469, 1815.9044, 1821.9144, 1828.9227, 1837.9396,
 1843.9688, 1844.9012, 1846.9153, 1852.9364, 1856.9908, 1861.8881, 1874.9695, 1880.9265, 1884.9417, 1891.9622, 1894.9313, 1896.9078, 1896.9100, 1900.9546, 1905.9313, 1906.9501, 1908.9043, 1911.9130, 1912.9154, 1916.9923, 1918.9587, 1925.9573, 1928.0469, 1932.0060,
 1933.9950, 1937.9630, 1939.9740, 1944.0040, 1946.9679, 1949.9595, 1954.0236, 1955.9738, 1958.9556, 1960.0034, 1968.8600, 1973.9845, 1976.9861, 1978.9910, 1981.9854, 1987.9784, 1995.9408, 1998.9894, 2000.9926, 2008.0460, 2012.9590, 2015.0104, 2017.9747, 2021.0170,
 2026.0275, 2027.0256, 2031.0166, 2044.0123, 2047.4957, 2047.9515, 2052.0496, 2060.0520, 2062.0073, 2064.9880, 2066.9873, 2097.0454,
 2102.0667, 2103.1641, 2111.0305, 2127.0930, 2139.0630, 2144.0493, 2148.1023, 2155.0950, 2156.0796, 2160.0632, 2176.0664, 2190.9895,
 2195.0774, 2199.0723, 2202.1624, 2203.1221, 2208.0862, 2211.1042, 2216.1062, 2225.1274, 2226.1272, 2229.0972, 2233.0984, 2239.0225,
 2242.0435, 2268.1489, 2270.1287, 2271.1294, 2277.0823, 2284.1990, 2292.1426, 2309.0994, 2334.1719, 2342.9915, 2350.1746, 2383.9607, 2398.2400, 2400.0862, 2413.0549, 2417.0959, 2497.2800, 2501.2637, 2511.1460, 2513.1421, 2528.1750, 2537.2012, 2541.1948, 2542.1836,
 2556.2058, 2562.1487, 2612.2666, 2706.2109, 2717.0869, 2767.2666, 2888.2532, 3221.1733, 3224.2917, 3312.3306, 3916.9434
 F6QYE2 Mass: 72629
                                             Score: 20
                                                                          Expect: 2.5e+002 Matches: 25
 Uncharacterized protein OS=Bos taurus GN=CFAP100 PE=4 SV=1

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss Ions
        Peptide

        788.4210
        787.4137
        787.4300
        -20.75
        167 - 172
        1
        ---
        K.RSEIQ

                                                                                                                       K.RSEIQR.L
                                            915.5185 2.87
                                                                              588 - 594
                                                                                                    2 --- R.GRRLVCR.S
  916.5284
                      915.5211
915.5284 915.5211 915.5185 2.87 588 - 594 2 --- R.GRRIVCR.S

943.5453 942.5381 942.5610 -24.34 554 - 560 2 --- R.LRIREEK.A

950.4959 949.4886 949.4902 -1.73 219 - 226 2 --- K.ESKARMEK.I

976.5310 975.5237 975.5059 18.3 489 - 496 0 --- K.LLESINCK.V

1031.5903 1030.5830 1030.5845 -1.39 224 - 231 1 --- K.MEKILEIR.E

1173.6418 1172.6345 1172.6400 -4.71 541 - 550 2 --- R.IEQAEKAKEK.E

1175.6089 1174.6016 1174.6194 -15.09 292 - 302 0 --- K.ESLLISSYGDR.A

1199.7006 1198.6933 1198.6782 12.6 575 - 585 2 --- R.AQARAQAEVKK.K

1248.6174 1247.6101 1247.5890 17.0 1 - 11 0 --- - MSENLPPMVSK.S + Oxidation (M)
1488.7537 1487.7464 1487.7467 -0.18 462 - 474 1 --- K.EEETAAELELKAR.V
1500.7737 1499.7664 1499.7516 9.87 155 - 166 0 --- R.QMFLIQYALDMK.R
                                                                              73 - 84 2 --- K.SLLDREQKQQLR.V
604 - 615 2 --- K.EQSKHELMDKDR.E + Oxidation (M)
 1513.8079 1512.8006 1512.8372 -24.18
 1531.7472 1530.7399 1530.7096 19.8
 1539 8005 1538 7932 1538 8165 -15 11
                                                                              292 - 305 1 ---
                                                                                                                     K ESLLLSSVGDRAHR L
                                                                              208 - 221 2 ---
 1565.8199 1564.8126 1564.7879 15.8
                                                                                                                     R.SSVQALRMADKESK.A + Oxidation (M)
 1587.7620 1586.7547 1586.7787 -15.12 173 - 186 0 --- R.LESLAAQEEAELER.A
1594.8335 1593.8262 1593.8185 4.88 85 - 98 2 --- R.VHEKMTYSSKVSAK.H
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1719.9058 1718.8985 1718.8962 24.6 124 - 137 1 --- R.SFHEQVAWKLAMTR.E + Oxidation (M)
1777.8770 1776.8697 1776.9080 -21.54 2 - 17 1 --- M.SENLPPMVSKSVTFNK.H
1793.9050 1792.8977 1792.9029 -2.90 2 - 17 1 --- M.SENLPPMVSKSVTFNK.H + Oxidation (M)
1955.9738 1954.9665 1954.9432 12.0 303 - 318 1 --- R.AHRLWEVGQLSEQSCR.L
1976.9861 1975.9788 1975.9938 -7.57 124 - 139 2 --- R.SFHEQVAWKLAMTREK.K + Oxidation (M)
2270.1287 2269.1214 2269.1711 -21.88 155 - 172 2 --- R.QMFLIQYALDMKRSEIQR.L
2513.1421 2512.1348 2512.1789 -17.56 99 - 118 2 --- K.TSLRRELQLEDETEDQEER.A
   No match to: 721.4365, 725.4001, 726.4063, 728.3681, 730.3848, 731.4017, 732.3573, 734.4151, 735.4143, 741.4101, 742.4515, 744.4171, 745.4167, 746.4169, 747.4125, 750.4153, 752.4127, 755.4100, 756.4199, 757.4313, 761.4177, 767.4266, 768.3700, 768.3737, 770.3966, 772.4093, 775.4307, 779.4308, 784.3688, 786.4000, 787.4221, 792.4376, 795.4350, 798.4351, 800.4296, 812.4388, 815.4332,
   822.4482, 825.4540, 831.4382, 832.4557, 835.4719, 837.4463, 842.5060, 844.4760, 854.4837, 856.4911, 860.4691, 862.4852, 885.4465, 905.4955, 907.4991, 908.4929, 913.5700, 913.5747, 918.5050, 919.5053, 922.5070, 928.5117, 934.5172, 940.4840,
                                                                                                                                                                                                                                                                                                          869 4231
   943.4289, 946.5259, 951.5076, 953.5164, 954.5388, 959.5266, 966.5410, 969.5256, 972.5305, 974.5395, 978.5314, 979.5442, 991.5409, 993.5307, 1001.5854, 1003.5496, 1011.5262, 1014.5215, 1021.5579, 1023.5663, 1023.5700, 1035.5381, 1036.5447, 1037.5573, 1039.5327, 1041.5658, 1044.5751, 1045.5729, 1046.5897, 1051.5448, 1056.5658, 1057.6078, 1067.5753, 1073.5902, 1086.5509, 1092.5961, 1100.6071,
   1106.5391, 1111.5615, 1113.5729, 1118.5818, 1120.6045, 1122.5912, 1123.5848, 1125.5823, 1132.6047, 1134.5714, 1139.5746, 1143.6318, 1144.6497, 1145.6407, 1147.6393, 1150.6108, 1155.6215, 1157.6199, 1158.6685, 1162.6182, 1163.6152, 1168.6215, 1178.6356, 1179.6157,
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    1307.7042, 1308.6376, 1310.6146, 1312.6418, 1315.7098, 1320.6659, 1322.6886, 1323.6771, 1324.6964, 1328.7089, 1331.7202, 1335.7318,
   1338.6581, 1339.6637, 1349.7253, 1352.7205, 1356.7230, 1360.6638, 1363.7153, 1365.7379, 1367.7319, 1369.7043, 1377.6947, 1379.7268,
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   1549.7339, 1551.7778, 1553.8065, 1555.8101, 1556.8109, 1557.8010, 1561.8401, 1563.8109, 1571.8400, 1579.7939, 1580.8077, 1583.8444, 1592.8066, 1604.8323, 1605.8586, 1608.8497, 1615.8754, 1624.8062, 1628.7900, 1628.7921, 1633.7985, 1640.9384, 1642.8099, 1646.8297,
    1649.8447, 1657.8101, 1667.8622, 1677.7988, 1680.8746, 1689.9465, 1694.7288, 1698.9225, 1699.8862, 1704.8773, 1706.8701, 1707.8302,
   1710.9279, 1716.8671, 1723.9011, 1725.8300, 1725.8346, 1727.8986, 1730.8931, 1737.9006, 1751.8656, 1754.8580, 1765.8463, 1766.8040, 1767.8138, 1769.8741, 1770.3567, 1772.9315, 1774.7610, 1774.9131, 1780.8777, 1783.9246, 1787.8188, 1787.8200, 1791.8137, 1795.9353,
   1798.9340, 1800.9336, 1804.9142, 1805.9069, 1809.8469, 1815.9044, 1821.9144, 1828.9227, 1837.9396, 1840.9827, 1843.9688, 1844.9012, 1846.9153, 1852.9364, 1856.9908, 1861.8881, 1867.9218, 1874.9695, 1880.9265, 1884.9417, 1891.9622, 1894.9313, 1896.9078, 1896.9100,
   1900.9546, 1905.9313, 1906.9501, 1908.9043, 1911.9130, 1912.9154, 1916.9923, 1918.9587, 1921.9825, 1923.9718, 1925.9573, 1928.0469, 1932.0060, 1933.9950, 1937.9630, 1939.9740, 1944.0040, 1946.9679, 1949.9595, 1954.0236, 1958.9556, 1960.0034, 1968.8600, 1973.9845,
   1978.9910, 1981.9854, 1983.9884, 1987.9784, 1995.9408, 1998.9894, 2000.9926, 2008.0460, 2012.9590, 2015.0104, 2017.9747, 2021.0170, 2026.0275, 2027.0256, 2031.0166, 2044.0123, 2047.4957, 2047.9515, 2052.0496, 2060.0520, 2062.0073, 2064.9880, 2066.9873, 2094.0376,
   2097.0454, 2102.0667, 2103.1641, 2111.0305, 2127.0930, 2139.0630, 2144.0493, 2148.1023, 2155.0950, 2156.0796, 2160.0632, 2176.0664,
   2190.9895, 2195.0774, 2199.0723, 2202.1624, 2203.1221, 2208.0862, 2211.1042, 2216.1062, 2225.1274, 2226.1272, 2229.0972, 2233.0984, 2239.0225, 2242.0435, 2268.1489, 2271.1294, 2277.0823, 2284.1990, 2292.1426, 2309.0994, 2334.1719, 2342.9915, 2350.1746, 2383.9607,
   2398.2400, 2400.0862, 2413.0549, 2414.1897, 2417.0959, 2497.2800, 2501.2637, 2511.1460, 2528.1750, 2537.2012, 2541.1948, 2542.1836, 2556.2058, 2562.1487, 2612.2666, 2706.2109, 2717.0869, 2767.2666, 2888.2532, 3221.1733, 3224.2917, 3312.3306, 3916.9434
                                                            Score: 20
                                                                                                Expect: 2.5e+002 Matches: 21
                     Mass: 51632
   DNA polymerase delta subunit 3 OS=Bos taurus GN=POLD3 PE=4 SV=2
    Observed Mr(expt) Mr(calc)
                                                                                       ppm Start End Miss Ions Peptide
                                774.4235
                                                          774.4422
                                                                                -24.15 241 - 247 1 ---
919.5053 918.4980 918.4957 2.53 292 - 298 2 --- R.MQQKEKK.R
993.5307 992.5234 992.5179 5.61 363 - 371 0 --- K.TEPEPPPVK.G
1001.5854 1000.5781 1000.5665 11.6 283 - 291 2 --- K.SSKKAEPVR.M
1045.5729 1044.5656 1044.5750 -8.96 440 - 450 2 --- K.SEPVRMQGK.E
1120.6045 1119.5972 1119.5818 13.7 443 - 453 2 --- K.AEPVRMQGK.E
1120.6045 1119.5972 1119.5818 13.7 443 - 453 2 --- K.KGTAAMGKANR.Q + Oxidation (M)
1134.5714 1133.5641 1133.5387 22.5 216 - 226 0 --- K.EVMNASSVGPK.A + Oxidation (M)
1360.6638 1359.6565 1359.6493 5.34 39 - 48 1 --- K.QMLYDYVERK.R + Oxidation (M)
1433.7228 1432.7155 1432.7157 -0.15 203 - 215 2 --- K.QMLYDYVERK.R
1515.8213 1514.8140 1514.8457 -20.89 92 - 105 0 --- K.EVMNASSVGPK.A
1547.8051 1546.7978 1546.7661 20.5 212 - 226 1 --- K.TEAKEVMNASSVGPK.A
1615.8754 1614.8681 1614.8518 10.1 25 - 38 0 --- K.WLSYLGVHVNQAK.Q
1783.9246 1782.9173 1782.9597 -23.74 417 - 432 2 --- K.MKTSSVHRPPAMAVKK.E + Oxidation (M)
1900.9546 1899.9473 1899.9724 -13.19 212 - 230 2 --- K.ETKTEAKEVMNASSVGPK.A
1916.9923 1915.9850 1915.9673 9.25 212 - 226 2 --- K.ETKTEAKEVMNASSVGPK.A
1921.9825 1920.9752 1920.9462 15.1 209 - 226 2 --- K.ETKTEAKEVMNASSVGPK.A + Oxidation (M)
1921.9825 1920.9752 1920.9462 15.1 209 - 226 2 --- K.ETKTEAKEVMNASSVGPK.A + Oxidation (M)
1925.9573 1924.9500 1224.9499 0.09 190 - 226 2 --- K.ETKTEAKEVMNASSVGPK.A + Oxidation (M)
1925.9573 1924.9500 1224.9499 0.09 190 - 226 2 --- K.ETKTEAKEVMNASSVGPK.A + Oxidation (M)
1925.9573 1924.9500 1224.9499 0.09 190 - 226 2 --- K.ETKTEAKEVMNASSVGPK.A + Oxidation (M)
1925.9573 1924.9500 1224.9499 0.09 190 - 226 2 --- K.ETKTEAKEVMNASSVGPK.A + Oxidation (M)
                               918.4980
                                                          918.4957
                                                                                  2.53 292 - 298 2 --- R.MQQKEKK.R
  2102.0667 2101.0594 2101.0071 24.9 384 - 401 2 --- R.VLKSKTFTDEEGCMVTEK.V
No match to: 721.4365, 725.4001, 726.4063, 728.3681, 730.3848, 731.4017, 732.3573, 734.4151, 735.4143, 741.4101, 742.4515,
   No match to: 721.4365, 723.4001, 726.4065, 726.3661, 730.3646, 731.4017, 732.3375, 734.4131, 735.4143, 741.4101, 742.4315, 744.4171, 745.4167, 746.4169, 747.4125, 750.4153, 752.4127, 755.4100, 756.4199, 757.4313, 761.4177, 767.4266, 768.3700, 768.3737, 770.3966, 772.4093, 779.4308, 784.3688, 786.4000, 787.4221, 788.4210, 792.4376, 795.4350, 798.4351, 800.4296, 812.4388, 815.4332, 822.4482, 825.4540, 831.4382, 832.4557, 835.4719, 837.4463, 842.5060, 844.4760, 854.4837, 856.4911, 860.4691, 862.4852, 869.4231,
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   1147.6393, 1150.6108, 1155.6215, 1157.6199, 1158.6685, 1162.6382, 1163.6152, 1168.6215, 1173.6418, 1175.6089, 1178.6356, 1179.6157, 1181.6819, 1188.6544, 1197.6704, 1199.7006, 1208.6415, 1216.6714, 1227.6595, 1231.6387, 1232.6447, 1234.6672, 1235.6445, 1244.6453, 1247.6211, 1248.6174, 1250.6554, 1255.6096, 1256.6531, 1261.6592, 1262.6453, 1266.6777, 1273.6260, 1275.6362, 1276.6343, 1277.6531,
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   1633.7985, 1640.9384, 1642.8099, 1646.8297, 1649.8447, 1657.8101, 1667.8622, 1677.7988, 1680.8746, 1689.9465, 1694.7288, 1698.9225,
    1699.8862, 1704.8773, 1706.8701, 1707.8302, 1710.9279, 1716.8671, 1719.9058, 1723.9011, 1725.8300, 1725.8346, 1727.8986, 1730.8931,
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   1821.9144, 1828.9227, 1837.9396, 1840.9827, 1843.9688, 1844.9012, 1846.9153, 1852.9364, 1856.9908, 1861.8881, 1867.9218, 1874.9695,
   1880.9265, 1884.9417, 1891.9622, 1894.9313, 1896.9078, 1896.9100, 1906.9501, 1908.9043, 1911.9130, 1912.9154, 1918.9587, 1923.9718,
     .928.0469, 1932.0060, 1933.9950, 1937.9630, 1939.9740, 1944.0040, 1946.9679, 1949.9595, 1954.0236, 1955.9738, 1958.9556, 1960.0034,
   1968.8600, 1973.9845, 1976.9861, 1978.9910, 1981.9854, 1983.9884, 1987.9784, 1995.9408, 1998.9894, 2000.9926, 2008.0460, 2012.9590, 2015.0104, 2017.9747, 2021.0170, 2026.0275, 2027.0256, 2031.0166, 2044.0123, 2047.4957, 2047.9515, 2052.0496, 2060.0520, 2062.0073,
   2064.9880, 2066.9873, 2094.0376, 2097.0454, 2103.1641, 2111.0305, 2127.0930, 2139.0630, 2144.0493, 2148.1023, 2155.0950, 2156.0796,
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2160.0632, 2176.0664, 2190.9895, 2195.0774, 2199.0723, 2202.1624, 2203.1221, 2208.0862, 2211.1042, 2216.1062, 2225.1274, 2226.1272, 2229.0972, 2233.0984, 2239.0225, 2242.0435, 2268.1489, 2270.1287, 2271.1294, 2277.0823, 2284.1990, 2292.1426, 2309.0994, 2334.1719,
   2342.9915, 2350.1746, 2383.9607, 2398.2400, 2400.0862, 2413.0549, 2414.1897, 2417.0959, 2497.2800, 2501.2637, 2511.1460, 2513.1421,
   2528.1750, 2537.2012, 2541.1948, 2542.1836, 2556.2058, 2562.1487, 2612.2666, 2706.2109, 2717.0869, 2767.2666, 2888.2532, 3221.1733,
    3224.2917, 3312.3306, 3916.9434
  G3MX17 Mass: 200058 Score: 20
                                                                                                            Expect: 2.5e+002 Matches: 53
   Uncharacterized protein OS=Bos taurus PE=3 SV=1

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss Ion

        745.4167
        744.4094
        744.4017
        10.3
        1218 - 1223
        0 ---

        767.4266
        766.4194
        766.4337
        -18.73
        1598 - 1603
        1 ---

                                                                                                                                          End Miss Ions Peptide

        767.4266
        766.4194
        766.4337
        -18.73
        1598 - 1603
        1
        ---
        K.KTYSLR.S

        812.4388
        811.4316
        811.4188
        15.7
        738 - 744
        1
        ---
        K.TKTYSGR.K

        832.4557
        831.4485
        831.4490
        -0.66
        1359 - 1364
        1
        ---
        K.KMLEEK.M

        854.4837
        853.4764
        853.4658
        12.5
        1590 - 1597
        0
        ---
        K.VSIHPSSK.K

        916.5284
        915.5211
        915.5138
        8.02
        140 - 147
        1
        ---
        K.DLLKGQSR.L

        951.5076
        950.5004
        950.4929
        7.85
        1365 - 1372
        0
        ---
        K.MMLITQAK.E + Oxidation (M)

        1001.5854
        1000.5718
        1000.5916
        -13.51
        1218 - 1225
        2
        ---
        K.INELEKKK.N

        1011.5262
        1010.5189
        1010.4954
        23.3
        1643 - 1651
        0
        ---
        K.IIETMSSSK.F + Oxidation (M)

        118.5818
        1117.5745
        1117.5655
        8.07
        1302 - 1310
        0
        ---
        K.EXYLDEAK.H

        1125.5823
        <
                                                                                                                                                                                        K.KTYSLR.S
 1174.6089 1174.6016 1174.5982 2.91 1151 - 1159 1 --- R.NNQETERLER.E

1199.7006 1198.6933 1198.7173 -19.96 577 - 586 1 --- K.LLDLIEDLKK.L

1216.6714 1215.6641 1215.6645 -0.31 897 - 906 1 --- K.LMQAKIDELR.R

1232.6447 1231.6374 1231.6594 -17.86 897 - 906 1 --- K.LMQAKIDELR.R + Oxidation (M)

1367.7319 1366.7246 1366.7568 -23.57 1587 - 1598 2 --- K.EQKVSIHPSSKK.T

1377.6947 1376.6874 1376.6936 -4.46 201 - 211 1 --- R.EYLRLSPDQEK.E

1388.7404 1387.7331 1387.7605 -19.75 897 - 907 2 --- K.LMQAKIDELRR.L + Oxidation (M)
 1434.7446 1433.7373 1433.7514 -9.84 176 - 187 0 ---
1467.7521 1466.7448 1466.7365 5.67 762 - 775 0 ---
                                                                                                                                                                                       R.TLNVLFDSLQER.L
                                                                                                                                                                                       K.GLTHASPAITEDOK.K
  1488.7537 1487.7464 1487.7198 17.9 437 - 448 0 ---
1519.7544 1518.7471 1518.7824 -23.21 865 - 876 2 ---
                                                                                                                                                                                       K.LTHYFOSFFNGK.G
                                                                                                                                                                                       K.SINQEQKERIMK.L + Oxidation (M)
 1619.7544 1518.7471 1518.7824 -23.21 865 - 876 2 --- K.SINGEGKERIMK.L + 1624.8062 1623.7989 1623.7740 15.4 747 - 760 0 --- R.LINENELQQDEPPAK.K 1642.8099 1641.8026 1641.8223 -11.98 1404 - 1417 1 --- K.GQLAEKDGNLQQWR.E 1699.8862 1698.8789 1698.9100 -18.28 192 - 204 2 --- K.MNLKPHRSREYLR.L 1707.8302 1706.8229 1706.8475 -14.38 1174 - 1187 2 --- K.ADLQRKEEDYAELK.E 1719.9058 1718.8985 1718.8951 1.98 1652 - 1666 1 --- K.FSNVEVSKENVSRPK.F 1723.9011 1722.8938 1722.9264 -18.92 761 - 776 2 --- K.KGLTHASPAITEDQKK.
                                                                                                                                                                                       K.FSNVEVSKENVSRPK.R
                                                                                                                                                                                       K.KGLTHASPAITEDOKK.S
 1751.8656 1750.8583 1750.8624 -2.35 1180 -1194 2 --- K.EEDYARLKEKLADAK.K
1774.9131 1773.9058 1773.8931 7.20 1395 - 1409 1 --- K.QONEMEILKGQLAEK.D
                                                                                                                                                                                       K.OONEMETIKGOLAEK.D + Oxidation (M)
 1777.8770 1776.8697 1776.9039 -19.26 872 - 886 2 --- K.ERIMKISEEIETAGR.N + Oxidation (M
1780.8777 1779.8704 1779.8751 -2.62 746 - 760 1 --- K.RLNENELQQDEPPAK.K
1793.9050 1792.8977 1792.8703 15.3 996 - 1009 2 --- K.DYTNENNRLKIEER.E
1815.9044 1814.8971 1814.8655 17.4 1390 - 1403 1 --- R.EHCLKQQNEMEILK.G + Oxidation (M)
                                                                                                                                                                                        K.ERIMKLSEEIETAGR.N + Oxidation (M)
 1821.9144 1820.9071 1820.9057 0.79 315 - 329 1 --- K.DLQWIQVSDAKEAYR.L
1896.9078 1895.9005 1895.8723 14.9 1551 - 1565 2 --- K.SHEMEEDFVKFENKK.N
                                                                                                                                                                                       K.DLOWIOVSDAKEAYR.L
1896.9078 1895.9005 1895.8723 14.9 1551 - 1565 2 --- K.SHEMEEDFVKFENKK.N
1896.9100 1895.9027 1895.8723 16.0 1550 - 1564 2 --- R.KSHEMEEDFVKFENK.K
1905.9313 1904.9240 1904.9302 -3.24 102 - 118 2 --- R.LSEKSSGQMAQKFSFSK.V + Oxidation (M)
1912.9154 1911.9081 1911.8672 21.4 1551 - 1565 2 --- K.SHEMEEDFVKFENKK.N + Oxidation (M)
1916.9923 1915.9850 1916.0156 -15.95 1625 - 1641 1 --- K.FGDFLQHSPTILGSKAR.K
1921.9825 1920.9752 1920.9761 -0.43 1365 - 1380 2 --- K.FGDFLQHSPTILGSKAR.K
1924.0240 1942.9967 1943.0211 -12.54 1020 - 1035 2 --- K.EKDSLIQQLKEEVQEK.T
1954.0236 1953.0163 1953.0176 -0.66 1528 - 1545 2 --- K.EKDSLIQQLKEEVQEK.T
1957.0236 1966.9711 1986.9541 8.57 1098 - 1114 1 --- R.NLNECQANLKDSIQNAR.D
1987.9784 1986.9711 1986.9541 8.57 1098 - 1114 1 --- R.SEKSSGQMAQKFSFSK.V + Oxidation (M)
1987.9784 1986.9711 2016.9674 2017.0058 -19.00 434 - 450 2 --- R.EYLRLSPDQEKEEVASK.S
2062.0073 2061.0000 2060.9506 24.0 1072 - 1088 2 --- R.EYLRLSPDQEKEEVASK.S
2062.0073 2061.0000 2060.9506 24.0 1072 - 1088 2 --- K.LQDELQESEGKHEAREK.K
2216.1062 2215.0989 2215.1444 -20.53 877 - 896 1 --- K.LQDELQESEGKHEAREK.K
2216.1062 2215.0989 2215.1444 -20.53 877 - 896 1 --- K.LGDELQESEGKHEAREK.K
2216.1064 2215.0989 2215.1444 -20.53 877 - 896 1 --- R.EFSLIASSTEANSSESKDYLQVCLRVRPFTQPEK.E
No match to: 721.4365, 725.4001, 726.4063, 728.3681, 730.3848, 731.4017, 732.3573, 734.4151, 735.4143,
  No match to: 721.4365, 725.4001, 726.4063, 728.3681, 730.3848, 731.4017, 732.3573, 734.4151, 735.4143, 741.4101, 742.4515, 744.4171, 746.4169, 747.4125, 750.4153, 752.4127, 755.4100, 756.4199, 757.4313, 761.4177, 768.3700, 768.3737, 770.3966, 772.4093, 775.4307, 779.4308, 784.3688, 786.4000, 787.4221, 788.4210, 792.4376, 795.4350, 798.4351, 800.4296, 815.4332, 822.4482, 825.4540,
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   1120.6045, 1122.5912, 1132.6047, 1134.5714, 1143.6318, 1144.6497, 1145.6407, 1150.6108, 1155.6215, 1157.6199, 1158.6685, 1162.6182, 1163.6152, 1168.6215, 1173.6418, 1178.6356, 1179.6157, 1181.6819, 1188.6544, 1197.6704, 1208.6415, 1227.6595, 1231.6387, 1234.6672,
  1235.6445, 1244.6453, 1247.6211, 1248.6174, 1250.6554, 1255.6096, 1256.6531, 1261.6592, 1262.6453, 1266.6777, 1273.6260, 1275.6362, 1276.6343, 1277.6531, 1301.7079, 1303.7076, 1307.7042, 1308.6376, 1310.6146, 1312.6418, 1315.7098, 1320.6659, 1322.6886, 1323.6771,
   1324.6964, 1328.7089, 1331.7202, 1335.7318, 1338.6581, 1339.6637, 1349.7253, 1352.7205, 1356.7230, 1360.6638, 1363.7153, 1365.7379, 1369.7043, 1379.7268, 1383.7137, 1385.7534, 1390.7284, 1393.7428, 1407.7563, 1417.7010, 1421.7061, 1422.7019, 1425.7727, 1427.7742,
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    1545.8091, 1547.8051, 1549.7339, 1551.7778, 1553.8065, 1555.8101, 1556.8109, 1557.8010, 1561.8401, 1563.8109, 1565.8199, 1571.8400,
   1579.7939, 1580.8077, 1583.8444, 1587.7620, 1592.8066, 1594.8335, 1604.8323, 1605.8586, 1608.8497, 1615.8754, 1628.7900, 1628.7921, 1633.7985, 1640.9384, 1646.8297, 1649.8447, 1657.8101, 1667.8622, 1677.7988, 1680.8746, 1689.9465, 1694.7288, 1698.9225, 1704.8773,
   1706.8701, 1710.9279, 1716.8671, 1725.8300, 1725.8346, 1727.8986, 1730.8931, 1737.9006, 1754.8580, 1765.8463, 1766.8040, 1767.8138, 1769.8741, 1770.3567, 1772.9315, 1774.7610, 1783.9246, 1787.8188, 1787.8200, 1791.8137, 1795.9353, 1798.9340, 1800.9336, 1804.9142,
    1805.9069, 1809.8469, 1828.9227, 1837.9396, 1840.9827, 1843.9688, 1844.9012, 1846.9153, 1852.9364, 1856.9908, 1861.8881, 1867.9218,
   1874.9695, 1880.9265, 1884.9417, 1891.9622, 1894.9313, 1900.9546, 1906.9501, 1908.9043, 1911.9130, 1918.9587, 1923.9718, 1925.9573, 1928.0469, 1932.0060, 1933.9950, 1937.9630, 1939.9740, 1946.9679, 1949.9595, 1955.9738, 1958.9556, 1960.0034, 1968.8600, 1973.9845,
   1976.9861, 1978.9910, 1981.9854, 1983.9884, 1995.9408, 1998.9894, 2000.9926, 2008.0460, 2012.9590, 2015.0104, 2026.0275, 2027.0256, 2031.0166, 2044.0123, 2047.4957, 2047.9515, 2052.0496, 2060.0520, 2064.9880, 2066.9873, 2094.0376, 2102.0667, 2103.1641, 2111.0305,
  2127.0930, 2139.0630, 2144.0493, 2148.1023, 2155.0950, 2156.0796, 2160.0632, 2176.0664, 2190.9895, 2195.0774, 2199.0723, 2202.1624, 2203.1221, 2208.0862, 2211.1042, 2225.1274, 2226.1272, 2229.0972, 2233.0984, 2239.0225, 2242.0435, 2268.1489, 2270.1287, 2271.1294,
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2277.0823, 2284.1990, 2292.1426, 2309.0994, 2334.1719, 2342.9915, 2350.1746, 2383.9607, 2398.2400, 2400.0862, 2413.0549, 2414.1897, 2417.0959, 2497.2800, 2501.2637, 2511.1460, 2513.1421, 2528.1750, 2537.2012, 2541.1948, 2542.1836, 2556.2058, 2562.1487, 2612.2666,
  2706.2109, 2717.0869, 2767.2666, 2888.2532, 3221.1733, 3224.2917, 3312.3306
                    Mass: 41913
                                                       Score: 20
                                                                                       Expect: 2.5e+002 Matches: 17
  {\tt Testis-specific \ serine/threonine-protein \ kinase \ 1 \ OS=Bos \ taurus \ GN=TSSK1B \ PE=3 \ SV=1}
   Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide
731.4017 730.3945 730.3861 11.4 2 - 8 0 --- M.DDAAVLK.R
953.5164 952.5091 952.4978 11.9 28 - 35 1 --- K.SAYSERIK.F
1056.5658 1055.5585 1055.5400 17.6 152 - 160 1 --- K.LSDFGFSKR.C
1073.5902 1072.5829 1072.5989 -14.87 276 - 286 1 --- K.ARGLSSAAVNK.E
1134.5714 1133.5641 1133.5360 24.8 160 - 168 2 --- K.RCLRDDSGR.L
1158.6685 1157.6612 1157.6557 4.80 116 - 125 1 --- K.KFHQLSSAIK.Y
1517.7854 1516.7781 1516.7562 14.5 147 - 159 1 --- K.KFHQLSSAIK.Y
1561.8401 1560.8328 1560.8664 -21.51 47 - 159 1 --- K.KAPTDFLEKFLPR.E
1719.9058 1718.8985 1718.8774 12.3 238 - 251 2 --- R.SKHLTGECKDLIYK.M
1730.8931 1729.8858 1729.8774 4.86 71 - 85 1 --- R.SIKTYEIFETSDGK.V
1815.9044 1814.8971 1814.9236 -14.61 11 - 27 1 --- R.GYIMGINLGEGSYAKVK.S + Oxidation (M)
1874.9695 1873.9622 1873.9509 6.05 261 - 275 0 --- R.LHIDEILSHCWVQPK.A
1884.9417 1883.9344 1883.93676 -17.59 9 - 25 2 --- K.RRGYIMGINLGEGSYAK.V + Oxidation (M)
2027.0256 2026.0183 2026.0007 8.70 293 - 311 2 --- R.AAEPPWTPEPSDKKSATK.L
2031.0166 2030.0093 2030.0520 -21.02 260 - 275 1 --- R.LHIDEILSHCWVQPK.A
100.0667 2101.0594 2101.0891 -14.12 261 - 277 1 --- R.LHIDEILSHCWVQPK.A
100.0667 2101.0594 2101.0891 -14.12 261 - 277 1 --- R.LHIDEILSHCWVQPK.A
100.0667 2101.0594 2101.0891 -14.12 261 - 277 1 --- R.LHIDEILSHCWVQPK.A
100.0667 2101.0594 2101.0891 -14.12 261 - 277 1 --- R.LHIDEILSHCWVQPK.A
                                                                              731 4017
                           730 3945
                                                    730.3861
                                                                                                                                            M DDAAVIK R
 2102.0667 2101.0594 2101.0891 -14.12 261 - 277 1 --- R.LHIDEILSHCWQPKAR.G

No match to: 721.4365, 725.4001, 726.4063, 728.3681, 730.3848, 732.3573, 734.4151, 735.4143, 741.4101, 742.4515, 744.4171, 745.4167, 746.4169, 747.4125, 750.4153, 752.4127, 755.4100, 756.4199, 757.4313, 761.4177, 767.4266, 768.3700, 768.3737, 770.3966, 772.4093, 775.4307, 779.4308, 784.3688, 786.4000, 787.4221, 788.4210, 792.4376, 795.4350, 798.4351, 800.4296, 812.4388, 815.4332, 822.4482, 825.4540, 831.4382, 832.4557, 835.4719, 837.4463, 842.5060, 844.4760, 854.4837, 856.4911, 860.4691, 862.4852, 869.4231, 885.4465, 905.4955, 907.4991, 908.4929, 913.5700, 913.5707, 916.5284, 918.5050, 919.5053, 922.5070, 928.5117, 934.5172, 940.4840, 942.4854, 943.4289, 943.5453, 946.5259, 950.4959, 951.5076, 954.5388, 959.5266, 966.5410, 969.5256, 972.5305, 974.5395, 976.5310, 978.5314, 979.5442, 991.5409, 993.5307, 1001.5854, 1003.5496, 1011.5262, 1014.5215, 1021.5579, 1023.5663, 1023.5700, 1031.5903, 1035.5381, 1036.5447, 1037.5573, 1039.5327, 1041.5658, 1044.5751, 1045.5729, 1046.5897, 1051.5484, 1057.6078, 1067.5753, 1086.5509, 1092.5961, 1100.6071, 1106.5391, 1111.5615, 1113.5729, 1118.5818, 1120.6045, 1122.5912, 1123.5848, 1125.5823, 1132.6047, 1139.5746, 1143.6318, 1144.6497, 1145.6407, 1147.6393, 1150.6108, 1155.6215, 1157.6199, 1162.6182, 1163.6152, 1168.6215, 1173.6418, 1175.6089, 1178.6356, 1179.6157, 1181.6819, 1188.6554, 1197.6704, 1197.7006, 1208.6415, 121.66714, 1227.6559, 1231.6387, 1232.6447, 1234.6672.
  1178.6356, 1179.6157, 1181.6819, 1188.6544, 1197.6704, 1199.7006, 1208.6415, 1216.6714, 1227.6595, 1231.6387, 1232.6447, 1234.6672, 1235.6445, 1244.6453, 1247.6211, 1248.6174, 1250.6554, 1255.6096, 1256.6531, 1261.6592, 1262.6453, 1266.6777, 1273.6260, 1275.6362,
  1276.6343, 1277.6531, 1301.7079, 1303.7076, 1307.7042, 1308.6376, 1310.6146, 1312.6418, 1315.7098, 1320.6659, 1322.6886, 1323.6771,
  1324.6964, 1328.7089, 1331.7202, 1335.7318, 1338.6581, 1339.6637, 1349.7253, 1352.7205, 1356.7230, 1360.6638, 1363.7153, 1365.7379,
   1367.7319, 1369.7043, 1377.6947, 1379.7268, 1383.7137, 1385.7534, 1388.7404, 1390.7284, 1393.7428, 1407.7563, 1417.7010, 1421.7061,
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  1605.8586, 1608.8497, 1615.8754, 1624.8062, 1628.7900, 1628.7921, 1633.7985, 1640.9384, 1642.8099, 1646.8297, 1649.8447, 1657.8101, 1667.8622, 1677.7988, 1680.8746, 1689.9465, 1694.7288, 1698.9225, 1699.8862, 1704.8773, 1706.8701, 1707.8302, 1710.9279, 1716.8671,
   1723.9011, 1725.8300, 1725.8346, 1727.8986, 1737.9006, 1751.8656, 1754.8580, 1765.8463, 1766.8040, 1767.8138, 1769.8741, 1770.3567,
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  2284.1990, 2292.1426, 2309.0994, 2334.1719, 2342.9915, 2350.1746, 2383.9607, 2398.2400, 2400.0862, 2413.0549, 2414.1897, 2417.0959, 2497.2800, 2501.2637, 2511.1460, 2513.1421, 2528.1750, 2537.2012, 2541.1948, 2542.1836, 2556.2058, 2562.1487, 2612.2666, 2706.2109, 2717.0869, 2767.2666, 2888.2532, 3221.1733, 3224.2917, 3312.3306, 3916.9434
                                                                                        Expect: 2.5e+002 Matches: 8
  Profilin-3 OS=Bos taurus GN=PFN3 PE=2 SV=1
822.4482, 825.4540, 831.4382, 832.4557, 835.4719, 837.4463, 842.5060, 844.4760, 854.4837, 856.4911, 860.4691, 862.4852, 869.4231, 885.4465, 905.4955, 907.4991, 908.4929, 913.5700, 913.5747, 916.5284, 918.5050, 919.5053, 922.5070, 928.5117, 934.5172, 940.4840, 943.4289, 943.5453, 946.5259, 950.4959, 951.5076, 953.5164, 954.5388, 959.5266, 966.5410, 969.5256, 972.5305, 974.5395, 976.5310, 978.5314, 979.5442, 991.5409, 993.5307, 1001.5854, 1003.5496, 1011.5262, 1014.5215, 1021.5579, 1023.5663, 1023.5700,
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   1125.5823, 1132.6047, 1134.5714, 1139.5746, 1143.6318, 1144.6497, 1145.6407, 1147.6393, 1150.6108, 1155.6215, 1157.6199, 1158.6685,
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  1216.6714, 1227.6595, 1231.6387, 1232.6447, 1234.6672, 1235.6445, 1244.6453, 1247.6211, 1248.6174, 1250.6554, 1255.6096, 1256.6531,
  1261.6592, 1262.6453, 1266.6777, 1273.6260, 1275.6362, 1276.6343, 1277.6531, 1301.7079, 1303.7076, 1307.7042, 1308.6376, 1310.6146, 1312.6418, 1315.7098, 1320.6659, 1322.6886, 1323.6771, 1324.6964, 1328.7089, 1331.7202, 1335.7318, 1338.6581, 1339.6637, 1349.7253,
   1352.7205, 1356.7230, 1360.6638, 1363.7153, 1365.7379, 1367.7319, 1369.7043, 1377.6947, 1383.7137,
                                                                                                                                                                                                                               1385.7534, 1388.7404, 1390.7284
  1393.7428, 1407.7563, 1417.7010, 1421.7061, 1422.7019, 1425.7727, 1427.7742, 1429.7365, 1431.7412, 1433.7228, 1434.7446, 1437.7584, 1461.7778, 1467.7521, 1472.7633, 1475.7632, 1477.7545, 1484.7889, 1488.7537, 1491.7965, 1493.7579, 1500.7737, 1505.8177, 1513.8079,
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   1704.8773, 1706.8701, 1707.8302, 1710.9279, 1716.8671, 1719.9058, 1723.9011, 1725.8300, 1725.8346, 1727.8986, 1730.8931, 1751.8656,
  1754.8580, 1765.8463, 1766.8040, 1767.8138, 1769.8741, 1770.3567, 1772.9315, 1774.7610, 1774.9131, 1777.8770, 1780.8777, 1783.9246, 1787.8188, 1787.8200, 1791.8137, 1793.9050, 1795.9353, 1798.9340, 1800.9336, 1804.9142, 1805.9069, 1815.9044, 1821.9144, 1828.9227,
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1837.9396, 1840.9827, 1843.9688, 1844.9012, 1846.9153, 1852.9364, 1856.9908, 1861.8881, 1867.9218, 1874.9695, 1880.9265, 1884.9417, 1891.9622, 1896.9078, 1896.9100, 1900.9546, 1905.9313, 1906.9501, 1908.9043, 1911.9130, 1912.9154, 1916.9923, 1918.9587, 1921.9825,
                1923.9718, 1925.9573, 1928.0469, 1932.0060, 1933.9950, 1937.9630, 1939.9740, 1944.0040, 1946.9679, 1949.9595, 1954.0236, 1955.9738,
                1958.9556, 1960.0034, 1968.8600, 1973.9845, 1976.9861, 1978.9910, 1981.9854, 1983.9884, 1987.9784, 1995.9408, 1998.9894, 2000.9926,
                2008.0460, 2012.9590, 2015.0104, 2017.9747, 2021.0170, 2026.0275, 2027.0256, 2031.0166, 2044.0123, 2047.4957, 2047.9515, 2052.0496,
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                2513.1421, 2528.1750, 2537.2012, 2541.1948, 2542.1836, 2556.2058, 2562.1487, 2612.2666, 2706.2109, 2717.0869, 2767.2666, 2888.2532,
                3221.1733, 3224.2917, 3312.3306, 3916.9434
                                                                                                                 Expect: 2.5e+002 Matches: 11
30. G3X7E1 Mass: 19619 Score: 20
                Histone deacetylase complex subunit SAP18 OS=Bos taurus GN=SAP18 PE=4 SV=1
             744.4171, 745.4167, 746.4169, 747.4125, 750.4153, 752.4127, 755.4100, 756.4199, 757.4313, 761.4177, 767.4266, 768.3700, 768.3737, 770.3966, 772.4093, 775.4307, 779.4308, 784.3688, 786.4000, 787.4221, 788.4210, 792.4376, 795.4350, 798.4351, 800.4296, 812.4388, 815.4332, 822.4482, 825.4540, 831.4382, 832.4557, 835.4719, 837.4463, 842.5060, 844.4760, 854.4837, 856.4911, 860.4691, 862.4852,
               869.4231, 885.4465, 905.4955, 907.4991, 908.4929, 913.5700, 913.5747, 916.5284, 918.5050, 919.5053, 922.5070, 928.5117, 934.5172, 940.4840, 942.4854, 943.4289, 943.5453, 946.5259, 950.4959, 951.5076, 953.5164, 954.5388, 959.5266, 966.5410, 969.5256, 972.5305,
                788.5314, 979.5442, 993.5307, 1001.5854, 1003.5496, 1011.5262, 1014.5215, 1021.5579, 1023.5663, 1023.5700, 1031.5903, 1035.5381, 1036.5447, 1037.5573, 1039.5327, 1041.5658, 1044.5751, 1045.5729, 1046.5897, 1051.5448, 1056.5658, 1057.6078, 1067.5753, 1073.5902, 1086.5509, 1092.5961, 1100.6071, 1106.5391, 1111.5615, 1113.5729, 1118.5818, 1120.6045, 1122.5912, 1123.5848, 1125.5823, 1132.6047,
                1134.5714, 1139.5746, 1143.6318, 1144.6497, 1145.6407, 1147.6393, 1150.6108, 1155.6215, 1157.6199, 1158.6685, 1162.6182, 1163.6152, 1168.6215, 1173.6418, 1178.6356, 1179.6157, 1181.6819, 1188.6544, 1197.6704, 1199.7006, 1208.6415, 1216.6714, 1227.6595, 1231.6387,
                1234.6672, 1235.6445, 1244.6453, 1247.6211, 1250.6554, 1255.6096, 1256.6531, 1261.6592, 1262.6453, 1266.6777, 1273.6260, 1275.6362, 1276.6343, 1277.6531, 1301.7079, 1303.7076, 1307.7042, 1308.6376, 1312.6418, 1315.7098, 1320.6659, 1322.6886, 1323.6771, 1324.6964,
                1328.7089, 1331.7202, 1335.7318, 1339.6637, 1349.7253, 1352.7205, 1356.7230, 1360.6638, 1363.7153, 1365.7379, 1367.7319, 1369.7043, 1377.6947, 1379.7268, 1383.7137, 1385.7534, 1388.7404, 1390.7284, 1393.7428, 1407.7563, 1417.7010, 1421.7061, 1422.7019, 1425.7727, 1427.7742, 1429.7365, 1431.7412, 1433.7228, 1434.7446, 1437.7584, 1461.7778, 1467.7521, 1472.7633, 1475.7632, 1477.7545, 1484.7889,
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               2026.0275, 2027.0256, 2031.0166, 2044.0123, 2047.4957, 2047.9515, 2052.0496, 2060.0520, 2062.0073, 2064.9880, 2066.9873, 2094.0376, 2097.0454, 2102.0667, 2103.1641, 2111.0305, 2127.0930, 2139.0630, 2144.0493, 2148.1023, 2155.0950, 2156.0796, 2160.0632, 2176.0664,
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                2383.9607, 2398.2400, 2400.0862, 2413.0549, 2414.1897, 2417.0959, 2497.2800, 2501.2637, 2511.1460, 2513.1421, 2528.1750, 2537.2012,
                2541.1948, 2542.1836, 2556.2058, 2562.1487, 2612.2666, 2706.2109, 2717.0869, 2767.2666, 2888.2532, 3221.1733, 3224.2917, 3312.3306,
               <u>Q58DQ3</u> Mass: 32727 Score: 20
                                                                                                             Expect: 2.5e+002 Matches: 14

        Observed Description
        Mr (expt) Mr (calc)
        Mpm Start
        End Miss Ions Peptide
        Peptide

        788.4210
        787.4137
        787.4076
        7.77
        6 - 12
        0 ---
        K.AEKPDTK.E

        969.5256
        968.5183
        968.4974
        21.6
        38 - 45
        1 ---
        K.AEKPDTKEK.

        1045.5729
        1044.5656
        1044.5451
        19.6
        6 - 14
        1 ---
        K.AEKPDTKEK.K

        1057.6078
        1056.6005
        1056.6040
        -3.26
        251 - 259
        1 ---
        K.AVDSQILRR.I

        1144.6497
        1143.6424
        1143.6400
        2.09
        262 - 271
        0 ---
        K.AVPQLQGYLR.S

        1248.6174
        1247.6101
        1247.6080
        1.66
        56 - 65
        2 ---
        R.YSRSAMYSRK.A

        1320.6659
        1319.6586
        1319.6391
        14.8
        1 - 12
        1 ---
        MAGEKAEKPDTK.E + Oxidation (M)

        1323.6771
        1322.6698
        1322.66820
        19.1
        207 - 217
        0 ---
        K.IPEHLTDTYFK.K

        1491.7965
        1490.7892
        1490.7769
        8.26
        207 - 218
        1 ---
        K.IPEHLTDTYFKK.K

        1519.75
                60S ribosomal protein L6 OS=Bos taurus GN=RPL6 PE=2 SV=3
              2537.2012 2536.1939 2536.1830 4.32 226 - 245 2 --- R.HQEGEIFDTEREKYEITEQR.K

No match to: 721.4365, 725.4001, 726.4063, 728.3681, 730.3848, 731.4017, 732.3573, 734.4151, 735.4143, 741.4101, 742.4515, 744.4171, 745.4167, 746.4169, 747.4125, 750.4153, 752.4127, 755.4100, 756.4199, 757.4313, 761.4177, 767.4266, 768.3700, 768.3737, 770.3966, 772.4093, 775.4307, 779.4308, 784.3688, 786.4000, 787.4221, 792.4376, 795.4350, 798.4351, 800.4296, 812.4388, 815.4332, 822.4482, 825.4540, 831.4382, 832.4557, 835.4719, 837.4463, 842.5060, 844.4760, 854.4837, 856.4911, 860.4691, 862.4852, 869.4231, 885.4465, 905.4955, 907.4991, 908.4929, 913.5700, 913.5747, 916.5284, 918.5050, 919.5053, 922.5070, 928.5117, 934.5172, 940.4840, 942.4854, 943.4289, 943.5453, 946.5259, 950.4959, 951.5076, 953.5164, 954.5388, 959.5266, 966.5410, 972.5305, 974.5395, 976.5310, 978.5314, 979.5442, 991.5409, 993.5307, 1001.5854, 1003.5496, 1011.5262, 1014.5215, 1021.5579, 1023.5663, 1023.5700, 1031.5903, 1035.5381, 1036.5447, 1037.5573, 1039.5527, 1041.5658, 1044.56897, 1051.5484, 1056.5658, 1067.5753, 1073.5902, 1086.5509, 1092.5961, 1100.6071, 1106.5391, 1111.5615, 1113.5729, 1118.5818, 1120.6045, 1122.5912, 1123.5848, 1125.5823, 1132.6047, 1134.5714, 1139.5746, 1143.6318, 1145.6407, 1147.6393, 1156.6108, 1155.6215, 1157.6199, 1158.6685, 1162.6182, 1163.6152, 1168.6215, 1173.6418, 1175.6089, 1178.6356, 1179.6157, 1181.6819, 1188.6544, 1197.0607, 1181.6876, 1181.6874, 1181.6819, 1188.6544, 1197.0607, 1181.6876, 1181.6874, 1181.6819, 1188.6544, 1197.0607, 1181.6876, 1181.6874, 1181.6819, 1188.6544, 1197.0607, 1163.6152, 1168.6215, 1173.6418, 1175.6089, 1175.6089, 1176.6368, 1176.6368, 1176.6708, 1178.6708, 1178.6876, 1179.6157, 1181.6819, 1188.6544, 1197.0607, 1181.6874, 1181.6819, 1188.6544, 1197.0607, 1181.6874, 1181.6819, 1188.6544, 1197.0607, 1181.6874, 1181.6819, 1188.6544, 1197.0607, 1181.6874, 1181.6819, 1188.6818, 1182.6844, 1182.6846, 1182.6846, 1182.6846, 1182.6846, 1182.6846, 1182.6846, 1182.6846, 1182.6846, 1182.6846, 1182.6846, 1182.6846, 
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               1331.7202, 1335.7318, 1338.6581, 1339.6637, 1349.7253, 1352.7205, 1356.7230, 1360.6638, 1365.7379, 1367.7319, 1369.7043, 1377.6947, 1379.7268, 1383.7137, 1385.7534, 1388.7404, 1390.7284, 1393.7428, 1407.7563, 1417.7010, 1421.7061, 1422.7019, 1425.7727, 1427.7742,
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   1539.8005, 1542.8422, 1545.8091, 1547.8051, 1549.7339, 1551.7778, 1553.8065, 1555.8101, 1556.8109, 1557.8010, 1561.8401, 1563.8109, 1565.8199, 1571.8400, 1579.7939, 1580.8077, 1583.8444, 1587.7620, 1592.8066, 1594.8335, 1604.8323, 1605.8586, 1608.8497, 1615.8754, 1624.8062, 1628.7900, 1628.7921, 1633.7985, 1640.9384, 1642.8099, 1646.8297, 1649.8447, 1657.8101, 1677.7988, 1680.8746, 1689.9465,
  1694.7288, 1698.9225, 1699.8862, 1704.8773, 1706.8701, 1707.8302, 1710.9279, 1716.8671, 1719.9058, 1723.9011, 1725.8300, 1725.8346, 1727.8986, 1730.8931, 1737.9006, 1751.8656, 1754.8580, 1765.8463, 1766.8040, 1767.8138, 1769.8741, 1770.3567, 1772.9315, 1774.7610,
   1774.9131, 1777.8770, 1780.8777, 1783.9246, 1787.8188, 1787.8200, 1791.8137, 1793.9050, 1795.9353, 1798.9340, 1800.9336, 1804.9142, 1805.9069, 1809.8469, 1815.9044, 1821.9144, 1828.9227, 1837.9396, 1840.9827, 1843.9688, 1844.9012, 1846.9153, 1852.9364, 1856.9908,
   1861.8881, 1867.9218, 1874.9695, 1880.9265, 1884.9417, 1891.9622, 1894.9313, 1896.9078, 1896.9100, 1900.9546, 1905.9313, 1906.9501,
   1908.9043, 1911.9130, 1912.9154, 1916.9923, 1918.9587, 1921.9825, 1923.9718, 1925.9573, 1928.0469, 1932.0060, 1933.9950, 1937.9630, 1939.9740, 1944.0040, 1946.9679, 1949.9595, 1954.0236, 1955.9738, 1958.9556, 1960.0034, 1968.8600, 1973.9845, 1976.9861, 1978.9910,
  1981.9854, 1983.9884, 1987.9784, 1995.9408, 2000.9926, 2008.0460, 2012.9590, 2015.0104, 2017.9747, 2021.0170, 2026.0275, 2027.0256, 2031.0166, 2044.0123, 2047.4957, 2047.9515, 2052.0496, 2060.0520, 2062.0073, 2064.9880, 2066.9873, 2094.0376, 2097.0454, 2102.0667,
  2103.1641, 2111.0305, 2127.0930, 2139.0630, 2144.0493, 2148.1023, 2155.0950, 2156.0796, 2160.0632, 2176.0664, 2190.9895, 2195.0774, 2199.0723, 2202.1624, 2203.1221, 2208.0862, 2211.1042, 2216.1062, 2225.1274, 2226.1272, 2229.0972, 2233.0984, 2239.0225, 2242.0435,
  2268.1489, 2270.1287, 2271.1294, 2277.0823, 2284.1990, 2292.1426, 2309.0994, 2334.1719, 2342.9915, 2350.1746, 2383.9607, 2398.2400, 2400.0862, 2413.0549, 2414.1897, 2417.0959, 2497.2800, 2501.2637, 2511.1460, 2513.1421, 2528.1750, 2541.1948, 2542.1836, 2556.2058, 2562.1487, 2612.2666, 2706.2109, 2717.0869, 2767.2666, 2888.2532, 3221.1733, 3224.2917, 3312.3306, 3916.9434
                         Mass: 23786 Score: 20
                                                                                                      Expect: 2.6e+002 Matches: 11
   Peptidyl-prolyl cis-trans isomerase B OS=Bos taurus GN=PPIB PE=1 SV=4
 No match to: 721.4365, 725.4001, 726.4063, 728.3681, 730.3848, 731.4017, 732.3573, 734.4151, 735.4143, 741.4101, 742.4515, 744.4171, 745.4167, 746.4169, 747.4125, 750.4153, 752.4127, 755.4100, 756.4199, 757.4313, 761.4177, 767.4266, 768.3700, 768.3737, 770.3966, 772.4093, 775.4307, 779.4308, 784.3688, 786.4000, 787.4221, 788.4210, 792.4376, 795.4350, 798.4351, 800.4296, 815.4332,
  770.3966, 772.4093, 775.4307, 779.4308, 784.3688, 786.4000, 787.4221, 788.4210, 792.4376, 795.4350, 798.4351, 800.4296, 815.4332, 822.4482, 825.4540, 831.4382, 832.4557, 835.4719, 837.4463, 842.5060, 844.4760, 854.4837, 856.4911, 860.4691, 862.4852, 869.4231, 885.4465, 905.4955, 907.4991, 908.4929, 913.5700, 913.5747, 916.5284, 918.5050, 919.5053, 922.5070, 928.5117, 934.5172, 940.4840, 942.4854, 943.4289, 943.5453, 946.5259, 950.4959, 951.5076, 953.5164, 954.5388, 959.5266, 966.5410, 969.5256, 972.5305, 974.5395, 976.5310, 978.5314, 979.5442, 991.5409, 993.5307, 1001.5854, 1003.5496, 1011.5262, 1014.5215, 1021.5579, 1023.5663, 1023.5700, 1031.5903, 1035.5381, 1036.5447, 1037.5573, 1039.5327, 1041.5658, 1044.5751, 1045.5729, 1046.5897, 1051.5448, 1056.5658, 1057.6078, 1067.5753, 1073.5902, 1086.5509, 1092.5961, 1100.6071, 1106.5391, 1111.5615, 1113.5729, 1118.5818, 1122.5912, 1123.5848, 1125.5823, 1132.6047, 1134.5714, 1139.5746, 1143.6318, 1144.6497, 1147.6393, 1150.6108, 1155.6215, 1157.6199, 1158.6685, 1163.6152, 1168.6215, 1132.6047, 1134.5714, 1139.5746, 1143.6318, 1144.6497, 1147.6393, 1150.6108, 1155.6215, 1157.6199, 1158.6685, 1163.6152, 1168.6215, 1132.6047, 1134.6091, 1136.6324, 1136.6152, 1168.6215, 1132.6047, 1134.6091, 1136.6168, 1136.6152, 1168.6215, 1132.6047, 1134.6091, 1136.6168, 1136.6152, 1168.6215, 1137.6091, 1136.6091, 1136.6168, 1136.6152, 1168.6215, 1137.6091, 1136.6091, 1136.6168, 1136.6152, 1168.6215, 1137.6091, 1136.6091, 1136.6168, 1136.6152, 1168.6215, 1137.6091, 1136.6091, 1136.6168, 1136.6152, 1168.6215, 1137.6091, 1136.6091, 1136.6168, 1136.6152, 1136.6132, 1136.6132, 1136.6132, 1136.6132, 1136.6132, 1136.6132, 1136.6132, 1136.6132, 1136.6132, 1136.6132, 1136.6132, 1136.6132, 1136.6132, 1136.6132, 1136.6132, 1136.6132, 1136.6132, 1136.6132, 1136.6132, 1136.6132, 1136.6132, 1136.6132, 1136.6132, 1136.6132, 1136.6132, 1136.6132, 1136.6132, 1136.6132, 1136.6132, 1136.6132, 1136.6132, 1136.6132, 1136.6132, 1136.6132, 1136.6132, 1136.6132, 1136.6132, 1136.6132, 1136.6132, 1136.6132, 11
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    1273.6260, 1275.6362, 1276.6343, 1301.7079, 1303.7076, 1307.7042, 1308.6376, 1310.6146, 1312.6418, 1315.7098, 1320.6659, 1322.6886,
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  2066.9873, 2094.0376, 2097.0454, 2102.0667, 2103.1641, 2111.0305, 2127.0930, 2139.0630, 2144.0493, 2148.1023, 2155.0950, 2156.0796, 2160.0632, 2176.0664, 2190.9895, 2195.0774, 2202.1624, 2203.1221, 2208.0862, 2211.1042, 2216.1062, 2225.1274, 2226.1272, 2233.0984,
  2239.0225, 2242.0435, 2268.1489, 2270.1287, 2271.1294, 2277.0829, 2284.1990, 2292.1426, 2309.0994, 2334.1719, 2342.9915, 2350.1746, 2383.9607, 2398.2400, 2400.0862, 2413.0549, 2414.1897, 2417.0959, 2497.2800, 2501.2637, 2511.1460, 2513.1421, 2528.1750, 2537.2012, 2541.1948, 2542.1836, 2556.2058, 2562.1487, 2612.2666, 2706.2109, 2717.0869, 2767.2666, 2888.2532, 3221.1733, 3224.2917, 3312.3306,
  G1K1R3 Mass: 40420 Score: 20
                                                                                                     Expect: 2.7e+002 Matches: 17
   Tropomodulin-1 OS=Bos taurus GN=TMOD1 PE=4 SV=2

        Observed
        Mr (calc)
        ppm
        Start
        End Miss
        Ions
        Peptide

        728.3681
        727.3608
        727.3435
        23.8
        1
        5
        1
        ---
        -.MSYRR.E + Oxidation (M)

        745.4167
        744.4094
        744.3919
        23.6
        57
        63
        0
        ---
        K.APTGPFR.R

        750.4153
        749.4081
        749.4072
        1.20
        74
        79
        1
        ---
        K.QAKEFK.D

        779.4308
        778.4235
        778.4337
        -13.14
        229
        235
        0
        ---
        K.FSIVGTR.S

        837.4463
        836.4390
        836.4392
        -0.20
        6
        11
        1
        ---
        R.ELEKYR.D

        993.5307
        992.5234
        992.5403
        -16.99
        5
        11
        2
        ---
        R.RELEKYR.D

        1021.5579
        1020.5506
        1020.5352
        15.1
        74
        81
        2
        ---
        K.QAKEFKDR.E

        1125.5823
        1124.5750
        1124.57713
        3.29
        65
        7
        3
        0
        ---
        K.VQAKEFKDR.E</td
    Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide
  1846.9153 1845.9080 1845.9301 -11.97 325 - 340 2 --- R.LRASNAMMNNNDLVRK.R
  1856.9908 1855.9835 1855.9679 8.40
                                                                                                            65 - 79 2 --- R.EELLDHLEKQAKEFK.D
57 - 73 2 --- K.APTGPFRREELLDHLEK
  2008 0460 2007 0387 2007 0537
                                                                                       -7 48
                                                                                                                                                                  K APTGPERREELLDHLEK O
  No match to: 721.4365, 725.4001, 726.4063, 730.3848, 731.4017, 732.3573, 734.4151, 735.4143, 741.4101, 742.4515, 744.4171, 746.4169, 747.4125, 752.4127, 755.4100, 756.4199, 757.4313, 761.4177, 767.4266, 768.3700, 768.3737, 770.3966, 772.4093, 775.4307, 784.3688, 786.4000, 787.4221, 788.4210, 792.4376, 795.4350, 798.4351, 800.4296, 812.4388, 815.4332, 822.4482, 825.4540, 831.4382, 832.4557, 835.4719, 842.5060, 844.4760, 854.4837, 856.4911, 860.4691, 862.4852, 869.4231, 885.4465, 905.4955, 907.4991, 908.4929,
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  1001.5854, 1003.5496, 1011.5262, 1014.5215, 1023.5663, 1023.5700, 1031.5903, 1035.5381, 1036.5447, 1037.5573, 1039.5327, 1041.5658,
  1044.5751, 1045.5729, 1046.5897, 1051.5448, 1056.5658, 1057.6078, 1067.5753, 1073.5902, 1086.5509, 1092.5961, 1100.6071, 1106.5391,
   1111.5615, 1113.5729, 1118.5818, 1120.6045, 1122.5912, 1123.5848, 1132.6047, 1134.5714, 1139.5746, 1143.6318, 1144.6497, 1145.6407,
  1147.6393, 1150.6108, 1155.6215, 1157.6199, 1158.6685, 1162.6182, 1163.6152, 1168.6215, 1173.6418, 1175.6089, 1178.6356, 1179.6157, 1181.6819, 1188.6544, 1197.6704, 1199.7006, 1208.6415, 1216.6714, 1227.6595, 1231.6387, 1232.6447, 1234.6672, 1235.6445, 1244.6453,
  1247.6211, 1248.6174, 1250.6554, 1255.6096, 1256.6531, 1261.6592, 1262.6453, 1266.6777, 1273.6260, 1275.6362, 1276.6343, 1277.6531, 1301.7079, 1303.7076, 1307.7042, 1308.6376, 1310.6146, 1312.6418, 1315.7098, 1320.6659, 1322.6886, 1324.6964, 1328.7089, 1331.7202,
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   1780.8777, 1783.9246, 1787.8188, 1787.8200, 1791.8137, 1793.9050, 1795.9353, 1798.9340, 1800.9336, 1804.9142, 1805.9069, 1809.8469,
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  1918.9587, 1921.9825, 1923.9718, 1925.9573, 1928.0469, 1932.0060, 1933.9950, 1937.9630, 1939.9740, 1944.0040, 1946.9679, 1949.9595, 1954.0236, 1955.9738, 1958.9556, 1960.0034, 1968.8600, 1973.9845, 1976.9861, 1978.9910, 1981.9854, 1983.9884, 1987.9784, 1995.9408,
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  2144.0493, 2148.1023, 2155.0950, 2156.0796, 2160.0632, 2176.0664, 2190.9895, 2195.0774, 2199.0723, 2202.1624, 2203.1221, 2208.0862,
 2211.1042, 2216.1062, 2225.1274, 2226.1272, 2229.0972, 2233.0984, 2239.0225, 2242.0435, 2268.1489, 2270.1287, 2271.1294, 2277.0823, 2284.1990, 2292.1426, 2309.0994, 2334.1719, 2342.9915, 2350.1746, 2383.9607, 2398.2400, 2400.0862, 2413.0549, 2414.1897, 2417.0959,
 2497.2800, 2501.2637, 2511.1460, 2513.1421, 2528.1750, 2537.2012, 2541.1948, 2542.1836, 2556.2058, 2562.1487, 2612.2666, 2706.2109, 2717.0869, 2767.2666, 2888.2532, 3221.1733, 3224.2917, 3312.3306, 3916.9434
 E1B871 Mass: 21420
                                                   Score: 20
                                                                                  Expect: 2.7e+002 Matches: 11
 Uncharacterized protein OS=Bos taurus PE=3 SV=2

        Observed
        Mr(expt)
        Mr(calc)
        ppm
        Start
        End Miss Ions
        Peptide

        741.4101
        740.4028
        740.4115
        -11.78
        38
        - 43
        1
        ---
        K.GMHIRK.A

        757.4313
        756.4241
        756.4065
        23.3
        38
        - 43
        1
        ---
        K.GMHIRK.A

                                                                                                                                      K.GMHIRK.A + Oxidation (M)
757.4313 756.4241 756.4065 23.3 38 - 43 1 --- K.GMHIRK.A + Oxidation (M)
832.4557 831.4485 831.4450 4.15 177 - 184 1 --- K.KQTLTAGN.-
835.4719 834.4646 834.4599 5.58 87 - 93 0 --- K.SAEFLLR.M
860.4691 859.4618 859.4413 23.9 129 - 135 1 --- R.TYRAHGR.I
1057.6078 1056.6005 1056.5862 13.5 38 - 46 2 --- K.GMHIRKATK.Y + Oxidation (M)
1522.7811 1521.7738 1521.7861 -8.06 141 - 153 0 --- R.SSPCHIEIILPEK.E
1549.7339 1548.7266 1548.7606 -21.94 1 - 13 1 --- -MVRYSLDPENPTK.S
1793.9050 1792.8977 1792.8778 11.1 2 - 16 2 --- M.VRYSLDPENPTKSCK.S
2103.1641 2102.1568 2102.1484 4.01 106 - 124 1 --- K.GLDVDSLVIEHIQVNKAPR.M
2413.0549 2412.0476 2412.0998 -21.63 56 - 76 2 --- K.QCVPFCRYNGGGVGGCAQAKQR.G
 2412.0476 2412.0476 2412.0998 -21.63 56 - 76 2 --- R.QCPPCRYNGVGGCAQARQR.G

No match to: 721.4365, 725.4001, 726.4063, 728.3681, 730.3848, 731.4017, 732.3573, 734.4151, 735.4143, 742.4515, 744.4171,

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  1477.7545, 1484.7889, 1488.7537, 1491.7965, 1493.7579, 1500.7737, 1505.8177, 1513.8079, 1515.8213, 1517.7854, 1519.7544, 1523.7953, 1529.8099, 1530.7523, 1531.7472, 1537.7974, 1539.8005, 1542.8422, 1545.8091, 1547.8051, 1551.7778, 1553.8065, 1555.8101, 1556.8109,
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  1667.8622, 1677.7988, 1680.8746, 1689.9465, 1694.7288, 1698.9225, 1699.8862, 1704.8773, 1706.8701, 1707.8302, 1710.9279, 1716.8671, 1719.9058, 1723.9011, 1725.8300, 1725.8346, 1727.8986, 1730.8931, 1737.9006, 1751.8656, 1754.8580, 1765.8463, 1766.8040, 1767.8138,
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  1973.9845, 1976.9861, 1978.9910, 1981.9854, 1983.9884, 1987.9784, 1995.9408, 1998.9894, 2000.9926, 2008.0460, 2012.9590, 2015.0104, 2017.9747, 2021.0170, 2026.0275, 2027.0256, 2031.0166, 2044.0123, 2047.4957, 2047.9515, 2052.0496, 2060.0520, 2062.0073, 2064.9880,
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                                                                                    Expect: 2.7e+002 Matches: 17
                                                   Score: 20
 A0JNC0 Mass: 40548
  Tropomodulin-1 OS=Bos taurus GN=TMOD1 PE=2 SV=1
   Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide
                                                                          23.8 1 - 5 1 ---
23.6 57 - 63 0 ---
728.3681 727.3608 727.3435 23.8 1 - 5 1 --- -.MSYRR.E + Oxidation (M)
745.4167 744.4094 744.3919 23.6 57 - 63 0 --- K.APTGPFR.R
750.4153 749.4081 749.4072 1.20 74 - 79 1 --- K.QAKEFK.D
779.4308 778.4235 778.4337 -13.14 229 - 235 0 --- K.FSIVGTR.S
837.4463 836.4390 836.4392 -0.20 6 - 11 1 --- R.ELEKYR.D
993.5307 992.5234 992.5403 -16.99 5 - 11 2 --- R.RELEKYR.D
1021.5579 1020.5506 1020.5352 15.1 74 - 81 2 --- K.QAKEFK.E
1125.5823 1124.5750 1124.5713 3.29 65 - 73 0 --- R.ELLDHLEK.Q
1323.6771 1322.6698 1322.6461 17.9 298 - 308 0 --- K.VEMEIVSMLEK.N + Oxidation (M)
1339.6637 1338.6564 1338.6411 11.5 298 - 308 0 --- K.VEMEIVSMLEK.N + 2 Oxidation (M)
1421.7061 1420.6988 1420.6834 10.8 80 - 91 1 --- K.DREDLVPYTGEK.R
                                                                                                                                      -.MSYRR.E + Oxidation (M)
   728.3681
                          727.3608
                                                  727.3435
```

```
1491.7965 1490.7892 1490.7729 11.0 82 - 94 2 --- R.EDLVPYTGEKRGK.V

1608.8497 1607.8424 1607.8631 -12.84 64 - 76 2 --- R.REELLDHLEKQAK.E

1765.8463 1764.8390 1764.8359 1.77 328 - 342 2 --- R.ASNAMMNNNDLVRRR.R + 2 Oxidation (M)

1846.9153 1845.9080 1845.9301 -11.97 326 - 341 2 --- R.LRASNAMMNNNDLVRR.R

1856.9908 1855.9835 1855.9679 8.40 65 - 79 2 --- R.EELLDHLEKQAKEFK.D

2008.0460 2007.0387 2007.0537 -7.48 57 - 73 2 --- K.APTGFFRREELLDHLEK.Q
  No match to: 721.4365, 725.4001, 726.4063, 730.3848, 731.4017, 732.3573, 734.4151, 735.4143, 741.4101, 742.4515, 744.4171, 746.4169, 747.4125, 752.4127, 755.4100, 756.4199, 757.4313, 761.4177, 767.4266, 768.3700, 768.3737, 770.3966, 772.4093, 775.4307, 784.3688, 786.4000, 787.4221, 788.4210, 792.4376, 795.4350, 798.4351, 800.4296, 812.4388, 815.4332, 822.4482, 825.4540, 831.4382,
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  1335.7318, 1338.6581, 1349.7253, 1352.7205, 1356.7230, 1360.6638, 1363.7153, 1365.7379, 1367.7319, 1369.7043, 1377.6947, 1379.7268, 1383.7137, 1385.7534, 1388.7404, 1390.7284, 1393.7428, 1407.7563, 1417.7010, 1422.7019, 1425.7727, 1427.7742, 1429.7365, 1431.7412,
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  1542.8422, 1545.8091, 1547.8051, 1549.7339, 1551.7778, 1553.8065, 1555.8101, 1556.8109, 1557.8010, 1561.8401, 1563.8109, 1565.8199, 1571.8400, 1579.7939, 1580.8077, 1583.8444, 1587.7620, 1592.8066, 1594.8335, 1604.8323, 1605.8586, 1615.8754, 1624.8062, 1628.7900,
  1628.7921, 1633.7985, 1640.9384, 1642.8099, 1646.8297, 1649.8447, 1657.8101, 1667.8622, 1677.7988, 1680.8746, 1689.9465, 1694.7288, 1698.9225, 1699.8862, 1704.8773, 1706.8701, 1707.8302, 1710.9279, 1716.8671, 1719.9058, 1723.9011, 1725.8300, 1725.8346, 1727.8986,
   1730.8931, 1737.9006, 1751.8656, 1754.8580, 1766.8040, 1767.8138, 1769.8741, 1770.3567, 1772.9315, 1774.7610, 1774.9131, 1777.8770,
  1780.8777, 1783.9246, 1787.8188, 1787.8200, 1791.8137, 1793.9050, 1795.9353, 1798.9340, 1800.9336, 1804.9142, 1805.9069, 1809.8469, 1815.9044, 1821.9144, 1828.9227, 1837.9396, 1840.9827, 1843.9688, 1844.9012, 1852.9364, 1861.8881, 1867.9218, 1874.9695, 1880.9265,
  1884.9417, 1891.9622, 1894.9313, 1896.9078, 1896.9100, 1900.9546, 1905.9313, 1906.9501, 1908.9043, 1911.9130, 1912.9154, 1916.9923, 1918.9587, 1921.9825, 1923.9718, 1925.9573, 1928.0469, 1932.0060, 1933.9950, 1937.9630, 1939.9740, 1944.0040, 1946.9679, 1949.9595,
   1954.0236, 1955.9738, 1958.9556, 1960.0034, 1968.8600, 1973.9845, 1976.9861, 1978.9910, 1981.9854, 1983.9884, 1987.9784, 1995.9408,
  1998.9894, 2000.9926, 2012.9590, 2015.0104, 2017.9747, 2021.0170, 2026.0275, 2027.0256, 2031.0166, 2044.0123, 2047.4957, 2047.9515, 2052.0496, 2060.0520, 2062.0073, 2064.9880, 2066.9873, 2094.0376, 2097.0454, 2102.0667, 2103.1641, 2111.0305, 2127.0930, 2139.0630,
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  2284.1990, 2292.1426, 2309.0994, 2334.1719, 2342.9915, 2350.1746, 2383.9607, 2398.2400, 2400.0862, 2413.0549, 2414.1897, 2417.0959, 2497.2800, 2501.2637, 2511.1460, 2513.1421, 2528.1750, 2537.2012, 2541.1948, 2542.1836, 2556.2058, 2562.1487, 2612.2666, 2706.2109,
  2717.0869, 2767.2666, 2888.2532, 3221.1733, 3224.2917, 3312.3306, 3916.9434
  <u>F1MZ00</u> Mass: 14021 Score: 19
                                                                                                 Expect: 2.8e+002 Matches: 10
  Uncharacterized protein OS=Bos taurus GN=SNRPD3 PE=4 SV=2
| No match 
   Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide
 No match to: 721.4365, 725.4001, 726.4063, 728.3681, 730.3848, 731.4017, 732.3573, 734.4151, 735.4143, 741.4101, 742.4515, 744.4171, 745.4167, 746.4169, 747.4125, 750.4153, 752.4127, 755.4100, 756.4199, 757.4313, 761.4177, 767.4266, 768.3700, 768.3737, 770.3966, 772.4093, 775.4307, 779.4308, 786.4000, 787.4221, 788.4210, 792.4376, 795.4350, 798.4351, 800.4296, 812.4388, 815.4332, 822.4482, 825.4540, 831.4382, 832.4557, 835.4719, 837.4463, 842.5060, 884.4837, 856.4911, 860.4691, 869.4231, 885.4465, 805.4955, 907.4991, 908.4929, 913.5700, 913.5747, 916.5284, 918.5050, 919.5053, 922.5070, 928.5117, 934.5172, 940.4840, 942.4854,
  943.4289, 943.5453, 946.5259, 950.4959, 951.5076, 953.5164, 959.5266, 966.5410, 969.5256, 972.5305, 974.5339, 976.5310, 978.5314, 979.5442, 991.5409, 993.5307, 1001.5854, 1003.5496, 1011.5262, 1014.5215, 1021.5579, 1023.5663, 1023.5700, 1031.5903, 1036.5447, 1037.5573, 1039.5327, 1041.5658, 1044.5751, 1045.5729, 1046.5897, 1056.5658, 1057.6078, 1067.5753, 1073.5902, 1086.5509,
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  1770.3567, 1772.9315, 1774.7610, 1774.9131, 1777.8770, 1780.8777, 1783.9246, 1787.8188, 1787.8200, 1791.8137, 1793.9050, 1795.9353,
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  2537.2012, 2541.1948, 2542.1836, 2556.2058, 2562.1487, 2612.2666, 2706.2109, 2717.0869, 2767.2666, 2888.2532, 3221.1733, 3224.2917,
  3312.3306, 3916.9434
                                                                                                     Expect: 2.8e+002 Matches: 9
                          Mass: 18849
                                                                  Score: 19
  SNRNP27 protein OS=Bos taurus GN=SNRNP27 PE=2 SV=1

        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss
        Ions
        Peptide

        730.3945
        730.3834
        15.1
        35 - 39
        2 ---
        R.ERDRR

   Observed
                                                            730.3834
    731.4017
                                                                                                                                                                  R.ERDRR.R
```

```
800.4296 799.4223 799.4413 -23.72 8 - 13 2 --- R.SPRRER.R
950.4959 949.4886 949.5080 -20.45 77 - 84 2 --- K.ETKETKSK.E
978.5314 977.5241 977.5002 24.4 16 - 23 2 --- R.SRSTSRER.E
1111.5615 1110.5542 1110.5530 1.09 57 - 66 1 --- R.HRSTSPSPSR.L
1352.7205 1351.7132 1351.7320 -13.91 57 - 68 2 --- R.HRSTSPSPSR.L
2027.0256 2026.0183 2026.0207 -1.16 139 - 155 2 --- R.QYMNRKGGFNRPLDFIA.-
2541.1948 2540.1875 2540.1484 15.4 97 - 118 2 --- R.QYMNRKGGFNRPLDFIA.-
2541.1948 2540.1875 2540.1484 15.4 97 - 118 2 --- R.QYMNRKGGFNRPLDFIA.-
1746.4169, 747.4125, 750.4153, 752.4127, 755.4100, 756.4199, 757.4313, 761.4177, 767.4266, 768.3700, 768.3737, 770.3966, 772.4093, 775.4307, 779.4308, 784.3688, 786.4000, 787.4221, 788.4210, 792.4376, 795.4351, 812.4388, 815.4332, 822.4482, 825.4565, 905.4955.
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   1178.6356, 1179.6157, 1181.6819, 1188.6544, 1197.6704, 1199.7006, 1208.6415, 1216.6714, 1227.6595, 1231.6387, 1232.6447, 1234.6672, 1235.6445, 1244.6453, 1247.6211, 1248.6174, 1250.6554, 1255.6096, 1256.6531, 1261.6592, 1262.6453, 1266.6777, 1273.6260, 1275.6362, 1276.6343, 1277.6531, 1301.7079, 1303.7076, 1307.7042, 1308.6376, 1310.6146, 1312.6418, 1315.7098, 1320.6659, 1322.6886, 1323.6771,
   1324.6964, 1328.7089, 1331.7202, 1335.7318, 1338.6581, 1339.6637, 1349.7253, 1356.7230, 1360.6638, 1363.7153, 1365.7379, 1367.7319, 1369.7043, 1377.6947, 1379.7268, 1383.7137, 1385.7534, 1388.7404, 1390.7284, 1393.7428, 1407.7563, 1417.7010, 1421.7061, 1422.7019,
   1425.7727, 1427.7742, 1429.7365, 1431.7412, 1433.7228, 1434.7446, 1437.7584, 1461.7778, 1467.7521, 1472.7633, 1475.7632, 1477.7545, 1484.7889, 1488.7537, 1491.7965, 1493.7579, 1500.7737, 1505.8177, 1513.8079, 1515.8213, 1517.7854, 1519.7544, 1522.7811, 1523.7953,
   1529.8099, 1530.7523, 1531.7472, 1537.7974, 1539.8005, 1542.8422, 1545.8091, 1547.8051, 1549.7339, 1551.7778, 1553.8065, 1555.8101, 1556.8109, 1557.8010, 1561.8401, 1563.8109, 1565.8199, 1571.8400, 1579.7939, 1580.8077, 1583.8444, 1587.7620, 1592.8066, 1594.8335,
    1604.8323, 1605.8586, 1608.8497, 1615.8754, 1624.8062, 1628.7900, 1628.7921, 1633.7985, 1640.9384, 1642.8099, 1646.8297, 1649.8447,
  1657.8101, 1667.8622, 1677.7988, 1680.8746, 1689.9465, 1694.7288, 1698.9225, 1699.8862, 1704.8773, 1706.8701, 1707.8302, 1710.9279, 1716.8671, 1719.9058, 1723.9011, 1725.8300, 1725.8346, 1727.8986, 1730.8931, 1737.9006, 1751.8656, 1754.8580, 1765.8463, 1766.8040,
   1767.8138, 1769.8741, 1770.3567, 1772.9315, 1774.7610, 1774.9131, 1777.8770, 1780.8777, 1783.9246, 1787.8188, 1787.8200, 1791.8137, 1793.9050, 1795.9353, 1798.9340, 1800.9336, 1804.9142, 1805.9069, 1809.8469, 1815.9044, 1821.9144, 1828.9227, 1837.9396, 1840.9827,
   1843.9688, 1844.9012, 1846.9153, 1852.9364, 1856.9908, 1861.8881, 1867.9218, 1874.9695, 1880.9265, 1884.9417, 1891.9622, 1894.9313, 1896.9078, 1896.9100, 1900.9546, 1905.9313, 1906.9501, 1908.9043, 1911.9130, 1912.9154, 1916.9923, 1918.9587, 1921.9825, 1923.9718,
   1925.9573, 1928.0469, 1932.0060, 1933.9950, 1937.9630, 1939.9740, 1944.0040, 1946.9679, 1949.9595, 1954.0236, 1955.9738, 1958.9556, 1960.0034, 1968.8600, 1973.9845, 1976.9861, 1978.9910, 1981.9854, 1983.9884, 1987.9784, 1995.9408, 1998.9894, 2000.9926, 2008.0460,
   2012.9590, 2015.0104, 2017.9747, 2021.0170, 2026.0275, 2031.0166, 2044.0123, 2047.4957, 2047.9515, 2052.0496, 2060.0520, 2062.0073,
  2064.9880, 2066.9873, 2094.0376, 2097.0454, 2102.0667, 2103.1641, 2111.0305, 2127.0930, 2139.0630, 2144.0493, 2148.1023, 2155.0950, 2156.0796, 2160.0632, 2176.0664, 2190.9895, 2195.0774, 2199.0723, 2202.1624, 2203.1221, 2208.0862, 2211.1042, 2216.1062, 2225.1274,
   2226.1272, 2229.0972, 2233.0984, 2239.0225, 2242.0435, 2268.1489, 2270.1287, 2271.1294, 2277.0823, 2284.1990, 2292.1426, 2309.0994, 2334.1719, 2342.9915, 2350.1746, 2383.9607, 2398.2400, 2400.0862, 2413.0549, 2414.1897, 2417.0959, 2497.2800, 2501.2637, 2511.1460, 2513.1421, 2528.1750, 2537.2012, 2542.1836, 2556.2058, 2562.1487, 2612.2666, 2706.2109, 2717.0869, 2767.2666, 2888.2532, 3221.1733,
   3224.2917, 3312.3306, 3916.9434
                            Mass: 11695 Score: 19
                                                                                                                 Expect: 2.8e+002 Matches: 7
| No. 
   60S acidic ribosomal protein P2 OS=Bos taurus GN=RPLP2 PE=3 SV=1 \,
  815.4352, 822.4482, 822.4482, 832.4591, 831.4482, 832.4597, 835.4719, 837.4493, 842.5000, 844.4700, 854.4837, 856.44911, 850.44911, 850.44912, 869.4231, 885.4465, 905.4955, 907.4991, 908.4929, 913.5707, 913.5707, 915.5708, 918.5503, 919.5053, 922.5707, 928.5707, 928.5717, 934.5172, 940.4840, 942.4854, 943.4289, 943.5453, 946.5259, 950.4959, 951.5076, 953.5164, 954.5388, 959.5266, 966.5410, 969.5256, 972.5305, 974.5395, 976.5310, 978.5314, 979.5442, 991.5409, 993.5307, 1001.5854, 1003.5496, 1011.5262, 1014.5215, 1021.5579, 1023.5663, 1023.5700, 1031.5903, 1035.5381, 1036.5447, 1037.5573, 1039.5327, 1041.5658, 1044.5751, 1045.5729, 1046.5897, 1051.5448, 1056.5658, 1057.6078, 1067.5753, 1073.5902, 1086.5509, 1092.5961, 1100.6071, 1106.5391, 1111.5615, 1113.5729, 1118.5818, 1120.6045, 1122.5912, 1120.6045, 1122.5912, 1120.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 1122.6045, 
   1123.5848, 1125.5823, 1132.6047, 1134.5714, 1139.5746, 1143.6318, 1144.6497, 1145.6407, 1147.6393, 1150.6108, 1155.6215, 1157.6199, 1158.6685, 1162.6182, 1163.6152, 1168.6215, 1173.6418, 1175.6089, 1178.6356, 1179.6157, 1181.6819, 1188.6544, 1197.6704, 1199.7006,
   1208.6415, 1216.6714, 1227.6595, 1231.6387, 1232.6447, 1234.6672, 1235.6445, 1244.6453, 1247.6211, 1248.6174, 1250.6554, 1255.6096, 1261.6592, 1262.6453, 1266.6777, 1273.6260, 1275.6362, 1276.6343, 1277.6531, 1301.7079, 1303.7076, 1307.7042, 1308.6376, 1310.6146,
   1312.6418, 1315.7098, 1320.6659, 1322.6886, 1323.6771, 1324.6964, 1328.7089, 1331.7202, 1335.7318, 1338.6581, 1339.6637, 1349.7253, 1352.7205, 1356.7230, 1360.6638, 1363.7153, 1365.7379, 1367.7319, 1369.7043, 1377.6947, 1379.7268, 1383.7137, 1385.7534, 1388.7404,
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   1461.7778, 1467.7521, 1472.7633, 1475.7632, 1477.7545, 1484.7889, 1488.7537, 1491.7965, 1493.7579, 1500.7737, 1505.8177, 1513.8079, 1515.8213, 1517.7854, 1519.7544, 1522.7811, 1523.7953, 1529.8099, 1530.7523, 1531.7472, 1537.7974, 1539.8005, 1542.8422, 1547.8051,
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     l640.9384, 1642.8099, 1646.8297, 1649.8447, 1657.8101, 1667.8622, 1677.7988, 1680.8746, 1689.9465, 1694.7288, 1698.9225, 1699.8862,
   1704.8773, 1706.8701, 1707.8302, 1710.9279, 1716.8671, 1719.9058, 1723.9011, 1725.8300, 1725.8346, 1727.8986, 1730.8931, 1737.9006, 1751.8656, 1754.8580, 1765.8463, 1766.8040, 1767.8138, 1769.8741, 1770.3567, 1774.7610, 1774.9131, 1777.8770, 1780.8777, 1783.9246,
   1787.8188, 1787.8200, 1791.8137, 1793.9050, 1795.9353, 1798.9340, 1800.9336, 1804.9142, 1805.9069, 1809.8469, 1815.9044, 1821.9144, 1828.9227, 1837.9396, 1840.9827, 1843.9688, 1844.9012, 1846.9153, 1852.9364, 1856.9908, 1861.8881, 1867.9218, 1874.9695, 1880.9265,
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  2309.0994, 2334.1719, 2342.9915, 2350.1746, 2383.9607, 2398.2400, 2400.0862, 2413.0549, 2414.1897, 2417.0959, 2497.2800, 2501.2637, 2511.1460, 2513.1421, 2528.1750, 2537.2012, 2541.1948, 2542.1836, 2556.2058, 2562.1487, 2612.2666, 2706.2109, 2717.0869, 2767.2666,
   2888.2532, 3221.1733, 3224.2917, 3312.3306, 3916.9434
                                                                                                                       Expect: 2.8e+002 Matches: 12
   Serine/arginine-rich splicing factor 1 OS=Bos taurus GN=SRSF1 PE=2 SV=1
                                    Mr(expt)
                                                                      Mr(calc) ppm Start End Miss Ions Peptide
                                                                                                         16.1 112 - 118 1 ---
-8.65 84 - 90 1 ---
                                     831.4485
                                                                                                                                                                                             R.YGPPSRR.S
                                                                      831.4351
                                    915.5211
                                                                      915.5290
                                                                                                     -8.65
                                                                                                                                                                                           R.LRVEFPR.S
    916 5284
 1021.5579 1020.5506 1020.5716 -20.56 174 - 181 2 --- R.KLDNTKFR.S
1045.5729 1044.5656 1044.5577 7.59 110 - 118 2 --- R.GRYGPPSRR.S
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1162.6182 1161.6109 1161.6003 9.16 231 - 240 2 --- R.SRGSPRYSPR.H

1163.6152 1162.6079 1162.6346 -22.94 39 - 48 1 --- K.YGAIRDIDLK.N

1216.6714 1215.6641 1215.6836 -16.04 84 - 93 2 --- R.LRVEFPRSGR.G

1256.6531 1255.6458 1255.6230 18.1 165 - 174 2 --- R.KEDMTYAVRK.L + Oxidation (M)

1433.7228 1432.7155 1432.7171 -1.11 194 - 206 2 --- K.VDGPRSPSYGRSR.S

1255.0950 2154.0877 2154.1069 -8.92 119 - 138 1 --- R.SENRVVVSGLPPSGSWQDLK.D

1208.0862 2207.0789 2207.1157 -16.68 123 - 142 1 --- R.VVVSGLPPSGSWQDLKDHMR.E

1254.11948 2540.1875 2540.1608 10.5 52 - 74 1 --- R.GGPPFAFVEFEDPRDAEDAVYGR.D
  No match to: 721.4365, 725.4001, 726.4063, 728.3681, 730.3848, 731.4017, 732.3573, 734.4151, 735.4143, 741.4101, 742.4515, 744.4171, 745.4167, 746.4169, 747.4125, 750.4153, 752.4127, 755.4100, 756.4199, 757.4313, 761.4177, 767.4266, 768.3700, 768.3737, 770.3966, 772.4093, 775.4307, 779.4308, 784.3688, 786.4000, 787.4221, 788.4210, 792.4376, 795.4350, 798.4351, 800.4296, 812.4388,
  815.4332, 822.4482, 825.4540, 831.4382, 835.4719, 837.4463, 842.5060, 844.4760, 854.4837, 856.4911, 860.4691, 862.4852, 869.4231, 885.4465, 905.4955, 907.4991, 908.4929, 913.5700, 913.5747, 918.5050, 919.5053, 922.5070, 928.5117, 934.5172, 940.4840, 942.4854,
  943.4289, 943.5453, 946.5259, 950.4959, 951.5076, 953.5164, 954.5388, 959.5266, 966.5410, 969.5256, 972.5305, 974.53310, 978.5314, 979.5442, 991.5409, 993.5307, 1001.5854, 1003.5496, 1011.5262, 1014.5215, 1023.5663, 1023.5700, 1031.5903, 1035.5381, 1036.5447, 1037.5573, 1039.5327, 1041.5658, 1044.5751, 1046.5897, 1051.5448, 1056.5658, 1057.6078, 1067.5753, 1073.5902, 1086.5509,
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  1178.6356, 1179.6157, 1181.6819, 1188.6544, 1197.6704, 1199.7006, 1208.6415, 1227.6595, 1231.6387, 1232.6447, 1234.6672, 1235.6445, 1244.6453, 1247.6211, 1248.6174, 1250.6554, 1255.6096, 1261.6592, 1262.6453, 1266.6777, 1273.6260, 1275.6362, 1276.6343, 1277.6531,
  1301.7079, 1303.7076, 1307.7042, 1308.6376, 1310.6146, 1312.6418, 1315.7098, 1320.6659, 1322.6886, 1323.6771, 1324.6964, 1328.7089
  1331.7202, 1335.7318, 1338.6581, 1339.6637, 1349.7253, 1352.7205, 1356.7230, 1360.6638, 1363.7153, 1365.7379, 1367.7319, 1369.7043, 1377.6947, 1379.7268, 1383.7137, 1385.7534, 1388.7404, 1390.7284, 1393.7428, 1407.7563, 1417.7010, 1421.7061, 1422.7019, 1425.7727,
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  1491.7965, 1493.7579, 1500.7737, 1505.8177, 1513.8079, 1515.8213, 1517.7854, 1519.7544, 1522.7811, 1523.7953, 1529.8099, 1530.7523,
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  1770.3567, 1772.9315, 1774.7610, 1774.9131, 1777.8770, 1780.8777, 1783.9246, 1787.8188, 1787.8200, 1791.8137, 1793.9050, 1795.9353, 1798.9340, 1800.9336, 1804.9142, 1805.9069, 1809.8469, 1815.9044, 1821.9144, 1828.9227, 1837.9396, 1840.9827, 1843.9688, 1844.9012,
  1846.9153, 1852.9364, 1856.9908, 1861.8881, 1867.9218, 1874.9695, 1880.9265, 1884.9417, 1891.9622, 1894.9313, 1896.9078, 1896.9100, 1900.9546, 1905.9313, 1906.9501, 1908.9043, 1911.9130, 1912.9154, 1916.9923, 1918.9587, 1921.9825, 1923.9718, 1925.9573, 1928.0469,
   1932.0060, 1933.9950, 1937.9630, 1939.9740, 1944.0040, 1946.9679, 1949.9595, 1954.0236, 1955.9738, 1958.9556, 1960.0034, 1968.8600,
  1973.9845, 1976.9861, 1978.9910, 1981.9854, 1983.9884, 1987.9784, 1995.9408, 1998.9894, 2000.9926, 2008.0460, 2012.9590, 2015.0104, 2017.9747, 2021.0170, 2026.0275, 2027.0256, 2031.0166, 2044.0123, 2047.4957, 2047.9515, 2052.0496, 2060.0520, 2062.0073, 2064.9880,
  2066.9873, 2094.0376, 2097.0454, 2102.0667, 2103.1641, 2111.0305, 2127.0930, 2139.0630, 2144.0493, 2148.1023, 2156.0796, 2160.0632, 2176.0664, 2190.9895, 2195.0774, 2199.0723, 2202.1624, 2203.1221, 2211.1042, 2216.1062, 2225.1274, 2226.1272, 2229.0972, 2233.0984,
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  2542.1836, 2556.2058, 2562.1487, 2612.2666, 2706.2109, 2717.0869, 2767.2666, 2888.2532, 3221.1733, 3224.2917, 3312.3306, 3916.9434
                Mass: 54202
                                               Score: 19
                                                                            Expect: 2.8e+002 Matches: 20
  Chromosome 3 open reading frame 19 ortholog OS=Bos taurus GN=C22H3ORF19 PE=2 SV=1
                       Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide
   775.4307
                        774.4235
                                              774.4123
                                                                     14.4 84 - 89 1 ---
                                                                                                                          R.EKLEEK.A
916.5284 915.5211 915.5137 8.05 282 - 288 2 --- R.ENIKERR.K

974.5395 973.5323 973.5444 -12.41 84 - 91 2 --- R.EKLEEKAK.L

1046.5897 1045.5824 1045.5702 11.7 258 - 265 2 --- K.ELRNKQMK.T

1092.5961 1091.5888 1091.5645 22.3 203 - 211 1 --- K.TLLSEDMRK.E

1106.5391 1105.5318 1105.5364 -4.10 272 - 280 1 --- R.EQTTDQRTK.R

1262.6453 1261.6380 1261.6375 0.44 272 - 281 2 --- R.EQTTDQRTKR.E

1339.6637 1338.6564 1338.6350 16.0 124 - 135 1 --- K.EMEAIGASRGYR.K

1407.7563 1406.7490 1406.7374 8.30 261 - 271 2 --- R.NKQMKTLEMLR.E + Oxidation (M)

1467.7521 1466.7448 1466.7299 10.1 124 - 136 2 --- K.EMEAIGASRGYRK.T

1477.7545 1476.7472 1476.7150 21.8 367 - 378 2 --- R.GKDFSFGYWSKR.Q

1545.8091 1544.8018 1544.7682 21.8 65 - 77 2 --- R.AEKDAEQKIEEQK.T

1706.8701 1705.8628 1705.8491 8.06 118 - 132 2 --- K.MIDKQKEMEAIGASR.G

1719.9058 1718.8985 1718.8601 22.4 353 - 366 1 --- K.DTRPGVPHVREWDR.G

1884.9417 1883.9344 1883.9775 -22.84 178 - 193 2 --- R.KDLPDLLEMDKNLQGR.L

1900.9546 1899.9473 1899.9724 -13.19 178 - 193 2 --- R.KDLPDLLEMDKNLQGR.L + Oxidation (M)

1949.9595 1948.9522 1948.9928 -20.81 194 - 210 1 --- R.LFVSPANEKTLLSEDMR.K

1955.9738 1954.9665 1955.0000 -17.13 318 - 336 0 --- R.DGDVIGPLPPEPEVTPAPR.T

1904.0376 2093.0303 2093.0827 -25.00 194 - 211 2 --- R.LFVSPANEKTLLSEDMR.E + Oxidation (M)

No match to: 721.4365, 725.4001, 726.4063, 728.3681, 730.3848, 731.4017, 732.3573, 734.4151, 735.4143,
                                                                                 282 - 288 2 --- R.ENIKEKR.K
   916.5284
                       915.5211
                                              915.5137
                                                                8.05
  No match to: 721.4365, 725.4001, 726.4063, 728.3681, 730.3848, 731.4017, 732.3573, 734.4151, 735.4143, 741.4101, 742.4515, 744.4171, 745.4167, 746.4169, 747.4125, 750.4153, 752.4127, 755.4100, 756.4199, 757.4313, 761.4177, 767.4266, 768.3700, 768.3737, 770.3966, 772.4093, 779.4308, 784.3688, 786.4000, 787.4221, 788.4210, 792.4376, 795.4350, 798.4351, 800.4296, 812.4388, 815.4332,
  822.4482, 825.4540, 831.4382, 832.4557, 835.4719, 837.4463, 842.5060, 844.4760, 854.4837, 856.4911, 860.4691, 862.4852, 869.4231, 885.4465, 905.4955, 907.4991, 908.4929, 913.5700, 913.5747, 918.5050, 919.5053, 922.5070, 928.5117, 934.5172, 940.4840, 942.4854,
  943.4289, 943.5453, 946.5259, 950.4959, 951.5076, 953.5164, 954.5388, 959.5266, 966.5410, 969.5256, 972.5305, 976.5310, 978.5314, 979.5442, 991.5409, 993.5307, 1001.5854, 1003.5496, 1011.5262, 1014.5215, 1021.5579, 1023.5663, 1023.5700, 1031.5903, 1035.5381,
  1036.5447, 1037.5573, 1039.5327, 1041.5658, 1044.5751, 1045.5729, 1051.5448, 1056.5658, 1057.6078, 1067.5753, 1073.5902, 1086.5509,
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  2513.1421, 2528.1750, 2537.2012, 2541.1948, 2542.1836, 2556.2058, 2562.1487, 2612.2666, 2706.2109, 2717.0869, 2767.2666, 2888.2532,
  3221.1733, 3224.2917, 3312.3306, 3916.9434
                    Mass: 24689
                                                          Score: 19
                                                                                           Expect: 2.9e+002 Matches: 11
 Uncharacterized protein OS=Bos taurus GN=TEX35 PE=4 SV=1

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss Ions
        Peptide

        775.4307
        774.4235
        774.4123
        14.4
        61 - 66 1 - - 66 1 - - R.EELKEK.M.
        R.EELKEK.M.

976.5310 975.5237 975.5059 18.3 72 - 79 1 --- K.GIKDMOH. D
1045.5729 1044.5656 1044.5750 -8.94 1 - 9 9 2 --- -...MSAKRVEPK.I
1045.5729 1044.5656 1044.5750 -8.94 1 - 9 2 --- -.MSAKRVEPK.K
1073.5902 1072.5829 1072.5950 -11.30 102 - 110 0 --- K.MDVLINIQK.N
1118.5818 1117.5745 1117.5745 1117.5914 -15.06 119 - 127 1 --- R.GLKMQQELR.L + Oxidation (M)
1421.7061 1420.6988 1420.7119 -9.19 61 - 71 2 --- R.ELKEKMEEIK.Q + Oxidation (M)
1657.8101 1656.8028 1656.8069 -2.46 80 - 92 1 ---- K.DFDKLQEFVEIMK.E + Oxidation (M)
1707.8302 1706.8229 1706.8219 0.61 97 - 110 1 --- K.DFDKLQEFVEIMK.E + Oxidation (M)
1918.9587 1917.9514 1917.9414 5.25 194 - 211 0 --- K.DFDKLQEFVEIMK.E + Oxidation (M)
1920.00097 2019.9969 6.36 97 - 113 2 --- K.DMDEKMDVLINIQK.N + Oxidation (M)
1008.802 2070.0789 2207.0789 2207.0636 6.96 93 - 110 2 --- K.DMDEKMDVLINIQK.N
1009.80862 2207.0789 2207.0636 6.96 93 - 110 2 --- K.DMDEKMDVLINIQK.N
1009.80862 2207.0789 2207.0636 6.96 93 - 110 2 --- K.DMDEKMDVLINIQK.N
1009.80862 2207.0789 2207.0636 6.96 93 - 110 2 --- K.DMDEKMDVLINIQK.N
1009.80862 2207.0789 2207.0636 6.96 93 - 110 2 --- K.DMDEKMDVLINIQK.N
1009.80862 2207.0789 2207.0636 6.96 93 - 110 2 --- K.DMDEKMDVLINIQK.N
1009.80862 2207.0789 2207.0636 6.96 93 - 110 2 --- K.DMDEKMDVLINIQK.N
1009.80862 2207.0789 2207.0636 6.96 93 - 110 2 --- K.DMDEKMDVLINIQK.N
1009.80862 2207.0789 2207.0636 6.96 93 - 110 2 --- K.DMDEKMDVLINIQK.N
1009.80862 2207.0789 2207.0636 6.96 93 - 110 2 --- K.DMDEKMDVLINIQK.N
1009.80862 2207.0789 2207.0636 6.96 93 - 110 2 --- K.DMDEKMDVLINIQK.N
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1009.80862 2207.0789 2207.0789 2207.0636 6.96 93 - 110 2 --- K.DMDEKMDVLINIQK.N
1009.80862 2207.0789 2207.0789 2207.0636 6.96 93 - 110 2 --- K.DMDEKMDVLINIQK.N
1009.80862 2207.0789 2207.0789 2207.0636 6.96 93 - 110 2 --- K.DMDEKMDVLINIQK.N
1009.80862 2207.0789 2207.0789 2207.0636 6.96 93 - 110 2 --- K.DMDEKMDVLINIQK.N
1009.80862 2207.0789 2207.0789 2207.0636 6.96 93 - 110 2 --- K.DMDEKMDVLINIQK.N
1009.80862 2207.0789 2207.0789 2207.0789 2207.0789 2207.0789 2207.0789 2207.0789 2207
                                                                                                                     9 2 --- -.MSAKRVEPK.K
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                                                          Score: 19
                                                                                         Expect: 2.9e+002 Matches: 9
  60S ribosomal protein L26 OS=Bos taurus GN=RPL26 PE=2 SV=1
No match to: 721.4365, 725.4001, 726.4063, 728.3681, 730.3848, 731.4017, 732.3573, 734.4151, 735.4143, 741.4101, 742.4515,
 No materia Co. 721.4305, 723.4001, 720.4005, 720.5861, 730.3848, 731.4017, 732.43573, 734.4151, 735.4143, 741.4101, 742.4515, 744.4171, 745.4167, 746.4169, 750.4153, 755.4100, 756.4199, 751.4177, 761.4266, 768.3700, 768.3737, 770.3966, 772.4093, 775.4307, 779.4308, 784.3688, 786.4000, 787.4221, 788.4210, 792.4376, 795.4350, 798.4351, 800.4296, 812.4388, 815.4332, 822.4482, 825.4540, 831.4382, 832.4557, 835.4719, 837.4463, 842.5060, 844.4760, 854.4837, 856.4911, 860.4691, 869.4231, 885.4465, 905.4955, 907.4991, 908.4929, 913.5700, 913.5747, 916.5284, 918.5050, 919.5053, 922.5070, 928.5117, 934.5172, 940.4840, 942.4854, 943.4289, 943.5453, 946.5259, 950.4959, 951.5076, 953.5164, 954.5388, 959.5266, 966.5410, 969.5256, 972.5305, 974.5395, 976.5310, 978.5314, 979.5442, 991.5409, 993.5307, 1001.5854, 1003.5496, 1011.5262, 1014.5215, 1021.5579, 1023.5663, 1023.5700, 1031.5903, 1035.5381, 1036.5722, 1044.5659, 1044.5659, 1044.5659, 1045.5659, 1032.5663
   1036.5447, 1037.5573, 1041.5658, 1044.5751, 1045.5729, 1046.5897, 1051.5448, 1056.5658, 1057.6078, 1067.5753, 1073.5902, 1086.5509,
  1092.5961, 1100.6071, 1106.5391, 1111.5615, 1113.5729, 1118.5818, 1120.6045, 1122.5912, 1123.5848, 1125.5823, 1132.6047, 1134.5714, 1139.5746, 1143.6318, 1144.6497, 1145.6407, 1147.6393, 1150.6108, 1155.6215, 1157.6199, 1158.6685, 1162.6182, 1163.6152, 1168.6215,
  1173.6418, 1175.6089, 1178.6356, 1179.6157, 1181.6819, 1188.6544, 1197.6704, 1199.7006, 1208.6415, 1216.6714, 1227.6595, 1231.6387,
  1232.6447, 1235.6445, 1244.6453, 1247.6211, 1248.6174, 1250.6554, 1255.6096, 1256.6531, 1261.6592, 1262.6453, 1266.6777, 1273.6260,
   1275.6362, 1276.6343, 1277.6531, 1301.7079, 1303.7076, 1307.7042, 1308.6376, 1310.6146, 1312.6418, 1315.7098, 1320.6659, 1322.6886,
  1323.6771, 1324.6964, 1328.7089, 1331.7202, 1335.7318, 1338.6581, 1339.6637, 1349.7253, 1352.7205, 1356.7230, 1360.6638, 1363.7153, 1365.7379, 1367.7319, 1369.7043, 1377.6947, 1379.7268, 1383.7137, 1385.7534, 1388.7404, 1393.7428, 1417.7010, 1421.7061, 1422.7019,
  1427.7742, 1429.7365, 1431.7412, 1433.7228, 1434.7446, 1437.7584, 1461.7778, 1467.7521, 1472.7633, 1475.7632, 1477.7545, 1484.7889, 1488.7537, 1491.7965, 1493.7579, 1500.7737, 1505.8177, 1513.8079, 1515.8213, 1517.7854, 1519.7544, 1522.7811, 1523.7953, 1529.8099,
  1530.7523, 1531.7472, 1537.7974, 1539.8005, 1542.8422, 1545.8091, 1547.8051, 1549.7339, 1551.7778, 1553.8065, 1555.8101, 1557.8010, 1561.8401, 1563.8109, 1565.8199, 1571.8400, 1579.7939, 1580.8077, 1583.8444, 1587.7620, 1592.8066, 1594.8335, 1604.8323, 1605.8586,
  1608.8497, 1615.8754, 1624.8062, 1628.7900, 1628.7921, 1633.7985, 1640.9384, 1642.8099, 1646.8297, 1649.8447, 1657.8101, 1667.8622,
  1677.7988, 1680.8746, 1689.9465, 1694.7288, 1698.9225, 1699.8862, 1704.8773, 1706.8701, 1707.8302, 1710.9279, 1716.8671, 1719.9058, 1723.9011, 1725.8300, 1725.8346, 1727.8986, 1730.8931, 1737.9006, 1751.8656, 1754.8580, 1765.8463, 1766.8040, 1767.8138, 1769.8741,
  1770.3567, 1772.9315, 1774.7610, 1774.9131, 1777.8770, 1780.8777, 1783.9246, 1787.8188, 1787.8200, 1791.8137, 1793.9050, 1795.9353, 1798.9340, 1800.9336, 1804.9142, 1805.9069, 1809.8469, 1815.9044, 1821.9144, 1828.9227, 1837.9396, 1840.9827, 1843.9688, 1844.9012,
  1846.9153, 1852.9364, 1856.9908, 1861.8881, 1867.9218, 1874.9695, 1880.9265, 1884.9417, 1891.9622, 1894.9313, 1896.9078, 1896.9100, 1900.9546, 1905.9313, 1906.9501, 1908.9043, 1911.9130, 1912.9154, 1916.9923, 1918.9587, 1921.9825, 1923.9718, 1925.9573, 1928.0469,
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1932.0060, 1933.9950, 1937.9630, 1939.9740, 1944.0040, 1946.9679, 1949.9595, 1954.0236, 1955.9738, 1958.9556, 1960.0034, 1968.8600, 1973.9845, 1976.9861, 1978.9910, 1981.9854, 1983.9884, 1987.9784, 1995.9408, 1998.9894, 2000.9926, 2008.0460, 2012.9590, 2015.0104,
   2017.9747, 2021.0170, 2026.0275, 2027.0256, 2031.0166, 2044.0123, 2047.4957, 2047.9515, 2052.0496, 2060.0520, 2062.0073, 2064.9880,
  2066.9873, 2094.0376, 2097.0454, 2102.0667, 2103.1641, 2111.0305, 2127.0930, 2139.0630, 2144.0493, 2148.1023, 2155.0950, 2156.0796, 2160.0632, 2176.0664, 2190.9895, 2195.0774, 2199.0723, 2202.1624, 2203.1221, 2208.0862, 2211.1042, 2216.1062, 2225.1274, 2226.1272,
  2229.0972, 2233.0984, 2239.0225, 2242.0435, 2268.1489, 2270.1287, 2271.1294, 2277.0823, 2284.1990, 2292.1426, 2309.0994, 2334.1719, 2342.9915, 2350.1746, 2383.9607, 2398.2400, 2400.0862, 2413.0549, 2414.1897, 2417.0959, 2497.2800, 2501.2637, 2511.1460, 2513.1421,
  2528.1750, 2537.2012, 2541.1948, 2542.1836, 2556.2058, 2562.1487, 2612.2666, 2706.2109, 2717.0869, 2767.2666, 2888.2532, 3221.1733,
  3224.2917, 3312.3306, 3916.9434
                       Mass: 18652
                                                         Score: 19
                                                                                          Expect: 2.9e+002 Matches: 12
  Similar to ribosomal protein L21 (Fragment) OS=Bos taurus GN=RPL21 PE=2 SV=1

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss
        Ions
        Peptide

        951.5076
        950.5004
        950.4967
        3.81
        1
        -
        8
        2
        ---
        -.MINTKG

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss Ions
        Peptide

        951.5076
        950.5004
        950.4967
        3.81
        1 - 8
        2 ---
        -.MTNTKGKR.R + Oxidation (M)

        1231.6387
        1230.6314
        1230.6332
        -1.41
        13 - 21
        1 ---
        R.YMFSRPFRK.H

        1247.6211
        1246.6138
        1246.6281
        -11.44
        13 - 21
        1 ---
        R.YMFSRPFRK.H

        1416.6937
        1416.7085
        -10.41
        10 - 20
        1 ---
        R.GTRYMFSRPFR.K

        1433.7228
        1432.7155
        1432.7034
        8.47
        10 - 20
        1 ---
        R.GTRYMFSRPFR.K

        1561.8401
        1564.8038
        1560.7983
        22.1
        10 - 21
        2 ---
        R.GTRYMFSRPFR.H
        Oxidation (M)

        1604.8323
        1603.8250
        1603.8604
        -22.03
        36 - 50
        2 ---
        R.KGDIVDIKGMGTVQK.G + Oxidation (M)

        1677.7988
        1676.7915
        1676.8007
        -5.48
        147 - 160
        0 ---
        R.GPAPPREAHFVRTNGK.E

        2027.0256
        2026.0183
        2026.0340
        -7.73
        37 - 55
        2 ---
        R.GDI
 No match to: /21.4365, /25.44001, /26.4003, /28.3881, /31.4017, /32.35/3, /34.4151, /35.4143, /41.4101, /42.4515, /44.4171, 745.4167, 746.4169, 747.4125, 750.4153, 752.4127, 755.4100, 756.4199, 757.4313, 761.4177, 767.4266, 768.3730, 768.3737, 770.3966, 772.4093, 775.4307, 779.4308, 784.3688, 786.4000, 787.4221, 788.4210, 792.4376, 795.4350, 798.4351, 800.4296, 812.4388, 815.4332, 822.4482, 825.4540, 831.4382, 832.4557, 835.4719, 837.4463, 842.5060, 844.4760, 854.4837, 856.4911, 860.4691, 862.4852, 869.4231, 885.4465, 905.4955, 907.4991, 908.4929, 913.5700, 913.5747, 916.5284, 918.5050, 919.5053, 922.5070, 928.5117, 934.5172, 940.4840, 942.4854, 943.4289, 943.5453, 946.5259, 950.4959, 953.5164, 954.5388, 959.5266, 966.5410, 969.5256, 972.5305, 974.5395,
  976.5310, 978.5314, 979.5442, 991.5409, 993.5307, 1001.5854, 1003.5496, 1011.5262, 1014.5215, 1021.5579, 1023.5663, 1023.5700, 1031.5903, 1035.5381, 1036.5447, 1037.5573, 1039.5327, 1041.5658, 1044.5751, 1045.5729, 1046.5897, 1051.5448, 1056.5658, 1057.6078, 1067.5753, 1073.5902, 1086.5509, 1092.5961, 1100.6071, 1106.5391, 1111.5615, 1113.5729, 1118.5818, 1120.6045, 1122.5912, 1123.5848,
  1125.5823, 1132.6047, 1134.5714, 1139.5746, 1143.6318, 1144.6497, 1145.6407, 1147.6393, 1150.6108, 1155.6215, 1157.6199, 1158.6685, 1162.6182, 1163.6152, 1168.6215, 1173.6418, 1175.6089, 1178.6356, 1179.6157, 1181.6819, 1188.6544, 1197.6704, 1199.7006, 1208.6415,
  1216.6714, 1227.6595, 1232.6447, 1234.6672, 1235.6445, 1244.6453, 1248.6174, 1250.6554, 1255.6096, 1256.6531, 1261.6592, 1262.6453, 1266.6777, 1273.6260, 1275.6362, 1276.6343, 1277.6531, 1301.7079, 1303.7076, 1307.7042, 1308.6376, 1310.6146, 1312.6418, 1315.7098,
  1320.6659, 1322.6886, 1323.6771, 1324.6964, 1328.7089, 1331.7202, 1335.7318, 1338.6581, 1339.6637, 1349.7253, 1352.7205, 1356.7230, 1360.6638, 1363.7153, 1365.7379, 1367.7319, 1369.7043, 1377.6947, 1379.7268, 1383.7137, 1385.7534, 1388.7404, 1390.7284, 1393.7428,
   1407.7563, 1421.7061, 1422.7019, 1425.7727, 1427.7742, 1429.7365, 1431.7412, 1434.7446, 1437.7584, 1461.7778, 1467.7521, 1472.7633
  1475.7632, 1477.7545, 1484.7889, 1488.7537, 1491.7965, 1493.7579, 1500.7737, 1505.8177, 1513.8079, 1515.8213, 1517.7854, 1519.7544,
   1522.7811, 1523.7953, 1529.8099, 1530.7523, 1531.7472, 1537.7974, 1539.8005, 1542.8422, 1547.8051, 1549.7339, 1551.7778, 1553.8065,
  1555.8101, 1556.8109, 1557.8010, 1563.8109, 1565.8199, 1571.8400, 1579.7939, 1580.8077, 1583.8444, 1587.7620, 1592.8066, 1594.8335, 1605.8586, 1608.8497, 1615.8754, 1624.8062, 1628.7900, 1628.7921, 1633.7985, 1640.9384, 1642.8099, 1646.8297, 1649.8447, 1657.8101,
  1667.8622, 1680.8746, 1689.9465, 1694.7288, 1698.9225, 1699.8862, 1704.8773, 1706.8701, 1707.8302, 1710.9279, 1716.8671, 1719.9058, 1723.9011, 1725.8300, 1725.8346, 1727.8986, 1730.8931, 1737.9006, 1751.8656, 1754.8580, 1765.8463, 1766.8040, 1767.8138, 1769.8741,
   1770.3567, 1772.9315, 1774.7610, 1774.9131, 1777.8770, 1780.8777, 1783.9246, 1787.8188, 1787.8200, 1791.8137, 1793.9050, 1795.9353,
  1798.9340, 1800.9336, 1805.9069, 1809.8469, 1815.9044, 1821.9144, 1828.9227, 1837.9396, 1840.9827, 1843.9688, 1844.9012, 1846.9153, 1852.9364, 1856.9908, 1861.8881, 1867.9218, 1874.9695, 1880.9265, 1884.9417, 1891.9622, 1894.9313, 1896.9078, 1896.9100, 1900.9546,
  1905.9313, 1906.9501, 1908.9043, 1911.9130, 1912.9154, 1916.9923, 1918.9587, 1921.9825, 1923.9718, 1925.9573, 1928.0469, 1932.0060, 1933.9950, 1937.9630, 1939.9740, 1944.0040, 1946.9679, 1949.9595, 1954.0236, 1955.9738, 1958.9556, 1960.0034, 1968.8600, 1973.9845,
   1976.9861, 1978.9910, 1981.9854, 1983.9884, 1987.9784, 1995.9408, 1998.9894, 2000.9926, 2008.0460, 2012.9590, 2015.0104, 2017.9747
  2021.0170, 2026.0275, 2031.0166, 2044.0123, 2047.4957, 2047.9515, 2052.0496, 2060.0520, 2062.0073, 2064.9880, 2066.9873, 2097.0454,
   2102.0667, 2103.1641, 2111.0305, 2127.0930, 2139.0630, 2144.0493, 2148.1023, 2155.0950, 2156.0796, 2160.0632, 2176.0664, 2190.9895,
  2195.0774, 2199.0723, 2202.1624, 2203.1221, 2208.0862, 2211.1042, 2216.1062, 2225.1274, 2226.1272, 2229.0972, 2233.0984, 2239.0225,
   2242.0435, 2268.1489, 2270.1287, 2271.1294, 2277.0823, 2284.1990, 2292.1426, 2309.0994, 2334.1719, 2342.9915, 2350.1746, 2383.9607,
  2398.2400, 2400.0862, 2413.0549, 2414.1897, 2417.0959, 2497.2800, 2501.2637, 2511.1460, 2513.1421, 2528.1750, 2537.2012, 2541.1948, 2542.1836, 2556.2058, 2562.1487, 2612.2666, 2706.2109, 2717.0869, 2767.2666, 2888.2532, 3221.1733, 3224.2917, 3312.3306, 3916.9434
                                                                                           Expect: 2.9e+002 Matches: 7
                       Mass: 8315
                                                          Score: 19
  ATP synthase subunit e, mitochondrial OS=Bos taurus GN=ATP5I PE=1 SV=2
ATP synthase subunit e, mitochondrial OS=Bos taurus GN=ATP51 PE=1 SV=2

Observed Mr (expt) Mr (calc) ppm Start End Miss Ions Peptide

831.4382 830.4309 830.4358 -5.95 51 - 56 2 --- K.RDEQKR.I

916.5284 915.5211 915.5389 -19.41 43 - 50 2 --- R.LAAEEKKK.R

953.5164 952.5091 952.5130 -4.13 30 - 36 0 --- R.YNYLKPR.A

1073.5902 1072.5829 1072.5625 19.1 52 - 59 2 --- R.DEQKRIER.E

1547.8051 1546.7978 1546.7966 0.80 16 - 29 1 --- R.YSALFLGMAYGAKR.Y

1563.8109 1562.8036 1562.7915 7.76 16 - 29 1 --- R.YSALFLGMAYGAKR.Y + Oxidation (M)

1723.9011 1722.8938 1722.8801 7.97 30 - 42 2 --- R.YNYLKPRAEEERR.L
  No match to: 721.4365, 725.4001, 726.4063, 728.3681, 730.3848, 731.4017, 732.3573, 734.4151, 735.4143, 741.4101, 742.4515,
   744.4171, 745.4167, 746.4169, 747.4125, 750.4153, 752.4127, 755.4100, 756.4199, 757.4313, 761.4177, 767.4266, 768.3700, 768.3737, 770.3966, 772.4093, 775.4307, 779.4308, 784.3688, 786.4000, 787.4221, 788.4210, 792.4376, 795.4350, 798.4351, 800.4296, 812.4388,
  770.3966, 775.4307, 775.4307, 775.4307, 775.4307, 784.368, 786.4007, 787.4221, 786.4217, 782.4376, 785.4351, 786.4351, 800.4296, 812.4386, 815.4332, 822.4482, 825.4546, 832.4557, 835.4719, 837.4463, 825.5602, 844.4760, 854.4837, 856.4911, 860.4691, 862.4851, 869.4921, 869.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.4921, 988.492
  1092.5961, 1100.6071, 1106.5391, 1111.5615, 1113.5729, 1118.5818, 1120.6045, 1122.5912, 1123.5848, 1125.5823, 1132.6047, 1134.5714, 1139.5746, 1143.6318, 1144.6497, 1145.6407, 1147.6393, 1150.6108, 1155.6215, 1157.6199, 1158.6685, 1162.6182, 1163.6152, 1168.6215, 1173.6418, 1175.6089, 1178.6356, 1179.6157, 1181.6819, 1188.6544, 1197.6704, 1199.7006, 1208.6415, 1216.6714, 1227.6595, 1231.6387,
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  1322.6886, 1323.6771, 1324.6964, 1328.7089, 1331.7202, 1335.7318, 1338.6581, 1339.6637, 1349.7253, 1352.7205, 1356.7230, 1360.6638, 1363.7153, 1365.7379, 1367.7319, 1369.7043, 1377.6947, 1379.7268, 1383.7137, 1385.7534, 1388.7404, 1390.7284, 1393.7428, 1407.7563,
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  2888.2532, 3221.1733, 3224.2917, 3312.3306, 3916.9434
  F1N1S3
                   Mass: 20635 Score: 19
                                                                                         Expect: 2.9e+002 Matches: 10
  Uncharacterized protein OS=Bos taurus GN=LOC100294792 PE=4 SV=2
Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide
  825.4540, 831.4382, 832.4557, 835.4719, 837.4463, 842.5060, 844.4760, 854.4837, 856.4911, 860.4691, 862.4852, 869.4231, 885.4465, 905.4955, 907.4991, 908.4929, 913.5700, 913.5747, 916.5284, 918.5050, 919.5053, 934.5172, 940.4840, 942.4854, 943.4289, 943.5453,
  946.5259, 950.4959, 951.5076, 953.5164, 954.5388, 959.5266, 966.5410, 969.5256, 972.5305, 974.5395, 976.5310, 978.5314, 979.5442, 991.5409, 993.5307, 1001.5854, 1003.5496, 1011.5262, 1014.5215, 1021.5579, 1023.5663, 1023.5700, 1031.5903, 1035.5381, 1036.5447,
  1037.5573, 1039.5327, 1041.5658, 1044.5751, 1045.5729, 1046.5897, 1051.5448, 1057.6078, 1067.5753, 1073.5902, 1086.5509, 1092.5961, 1100.6071, 1106.5391, 1111.5615, 1113.5729, 1118.5818, 1120.6045, 1122.5912, 1123.5848, 1125.5823, 1132.6047, 1134.5714, 1139.5746, 1143.6318, 1144.6497, 1145.6407, 1147.6393, 1150.6108, 1155.6215, 1157.6199, 1158.6685, 1162.6182, 1163.6152, 1168.6215, 1173.6418,
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  1276.6343, 1277.6531, 1301.7079, 1303.7076, 1307.7042, 1308.6376, 1310.6146, 1312.6418, 1315.7098, 1320.6659, 1323.6771, 1324.6964, 1328.7089, 1331.7202, 1335.7318, 1338.6581, 1339.6637, 1349.7253, 1352.7205, 1356.7230, 1360.6638, 1363.7153, 1365.7379, 1367.7319,
  1369.7043, 1377.6947, 1379.7268, 1383.7137, 1385.7534, 1388.7444, 1390.7284, 1393.7428, 1407.7563, 1417.7010, 1421.7061, 1422.7019, 1425.7727, 1427.7742, 1429.7365, 1431.7412, 1433.7228, 1434.7446, 1461.7778, 1467.7521, 1472.7633, 1475.7632, 1477.7545, 1484.7889, 1488.7537, 1491.7965, 1493.7579, 1500.7737, 1505.8177, 1513.8079, 1515.8213, 1517.7854, 1519.7544, 1522.7811, 1523.7953, 1529.8099,
  1530.7523, 1531.7472, 1537.7974, 1539.8005, 1542.8422, 1545.8091, 1547.8051, 1549.7339, 1551.7778, 1553.8065, 1555.8101, 1556.8109, 1557.8010, 1561.8401, 1563.8109, 1565.8199, 1571.8400, 1579.7939, 1580.8077, 1583.8444, 1587.7620, 1592.8066, 1594.8335, 1604.8323,
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  2537.2012, 2541.1948, 2542.1836, 2556.2058, 2562.1487, 2612.2666, 2706.2109, 2717.0869, 2767.2666, 2888.2532, 3221.1733, 3224.2917
  3312.3306, 3916.9434
                                                                                        Expect: 2.9e+002 Matches: 18
 A5PK00 Mass: 44048 Score: 19
  Vacuolar protein-sorting-associated protein 36 OS=Bos taurus GN=VPS36 PE=2 SV=1

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss
        Ions
        Peptide

        1199.7006
        1198.6933
        1198.7107
        -14.52
        293 - 302
        1 ---
        K.MLEALKLPLR.L + Oxidation (M)

        1356.7230
        1355.7157
        1355.7198
        -2.97
        35 - 46
        0 ---
        K.FDPGTLLLSTHR.L

 1363.7153 1362.7080 1362.7363 -20.75 345 - 356 1 --- K.IMGMSVLLAKER.L + Oxidation (M) 1379.7268 1378.7195 1378.7312 -8.48 345 - 356 1 --- K.LMGMSVLLAKER.L + 2 Oxidation (M)
1379.7268 1378.7195 1378.7312 -8.48 345 - 356 1 --- K.LMGMSVLLAKER.L + 2 Oxidation (M)
1505.8177 1504.8104 1504.8357 -16.77 184 - 196 2 --- K.LMVKAKEMVELSK.S
1519.7544 1518.7471 1518.7162 20.4 204 - 216 1 --- K.DKGGDITEDETIR.F
1537.7974 1536.7901 1536.7907 -4.47 219 - 232 0 --- K.SYLLSMGIANPVTR.E + Oxidation (M)
1551.7778 1550.7705 1550.7576 8.30 206 - 218 1 --- K.QKGDITEDETIR.K.S
1563.8109 1562.8036 1562.8337 -19.27 188 - 201 2 --- K.AKEMVELSKSIANK.I + Oxidation (M)
1605.8586 1604.8513 1604.8807 -18.30 190 - 203 2 --- K.AKEMVELSKSIANK.I + Oxidation (M)
1704.8773 1703.8700 1703.8553 8.66 305 - 319 0 --- R.VPDSGVMVIELQSHK.E + Oxidation (M)
1723.9011 1722.8938 1722.8862 4.43 173 - 187 1 --- K.NISEAFEDLSKLL
1725.8346 1724.8273 1724.8104 9.79 169 - 183 1 --- K.ETDKNISEAFEDLSK.L
1725.8346 1724.8273 1724.8104 9.79 169 - 183 1 --- K.ETDKNISEAFEDLSK.L
1918.9587 1917.9514 1917.9288 11.8 276 - 292 1 --- R.ARGMELLSPEDLVNACK.M + Oxidation (M)
2144.0493 2143.0420 2143.0905 -22.60 335 - 354 1 --- K.GSLTSEEFFAKIMGMSVLLAK.E + 2 Oxidation (M)
2292.1426 2291.1353 2291.1229 5.41 131 - 150 1 --- R.WENDY-VPQSLQTNRGPYGR.I
2309.0994 2308.0921 2308.1018 -4.20 112 - 129 2 --- K.EHGGIEFYRRLSEEMTQR.R

No match to: 721.4365, 725.4001, 726.4063, 728.3681, 730.3848, 731.4017, 732.3573, 734.4151, 735.4143, 74
 2308.0994 2308.0921 2308.1018 -4.20 112 - 129 2 --- K.EHGGIEFYRKISSEMIGR.K

No match to: 721.4365, 725.4001, 726.4063, 728.3681, 730.3848, 731.4017, 732.3573, 734.4151, 735.4143, 741.4101, 742.4515,

744.4171, 745.4167, 746.4169, 747.4125, 750.4153, 752.4127, 755.4100, 756.4199, 757.4313, 761.4177, 767.4266, 768.3700, 768.3737,

770.3966, 772.4093, 775.4307, 779.4308, 784.3688, 786.4000, 787.4221, 788.4210, 792.4376, 795.4350, 798.4351, 800.4296, 812.4388,

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   2767.2666, 2888.2532, 3221.1733, 3224.2917, 3312.3306, 3916.9434
                                                                                                   Expect: 3e+002 Matches: 24
                                                            Score: 19
   Coiled-coil domain-containing protein 102A OS=Bos taurus GN=CCDC102A PE=2 SV=1

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss
        Ions
        Peptide

        747.4125
        746.4052
        746.4109
        -7.57
        344
        - 349
        1
        ---
        R.KMAELI

                                                                                         7.57 344 - 349 1 --- R.KMAELR.G
747.4125 746.4052 746.4109 -7.57 344 - 349 1 --- R.KMELR.G
768.3700 767.3627 767.3701 -9.61 299 - 304 0 --- K.YEELSK.T
768.3737 767.3664 767.3701 -4.85 299 - 304 0 --- K.YEELSK.T
787.4221 786.4148 786.4097 6.60 162 - 169 1 --- R.GARGYDR.T
953.5164 952.5091 952.4978 11.9 181 - 188 0 --- R.EQEPVPVR.D
972.5305 971.5232 971.5287 -5.65 9 - 17 0 --- R.LAESPQLSK.G
1031.5903 1030.5830 1030.5672 15.4 108 - 115 2 --- K.WSKVRAER.N
1057.6078 1056.6005 1056.5788 20.6 135 - 143 2 --- K.ELAGARRER.Q
1308.6376 1307.6303 1307.6438 -10.29 85 - 95 2 --- R.ARAQWEKTMR.W + Oxidation (M)
1323.6771 1322.6698 1322.6434 19.9 339 - 349 2 --- R.SSMDRKMAELR.G
1339.6637 1338.6564 1338.6384 13.5 339 - 349 2 --- R.SSMDRKMAELR.G
1339.6637 1338.46564 1338.5384 13.5 339 - 349 2 --- R.SSMDRKMAELR.G
1339.6637 1338.45664 1338.5384 13.5 339 - 349 2 --- R.SSMDRKMAELR.G
1339.6437 1322.8438 131.7208 -5.59 450 - 460 2 --- R.RVEQHEAEVKK.L
1427.7742 1426.7669 1426.7528 9.89 385 - 397 1 --- R.AQVGDLEEALARR.R
1433.7228 1432.7155 1432.7344 -13.15 276 - 287 2 --- R.EDKMALSRNIEK.L
1542.8422 1541.8349 1541.8161 12.2 73 - 84 2 --- R.EQUKMALSRNIEK.L
1542.8422 1541.8349 1541.8161 12.2 73 - 84 2 --- R.AQVGDLEEALARR.R
1642.8099 1641.8026 1641.8283 -15.65 299 - 311 2 --- K.YEELSKTKQEMLK.Q + Oxidation (M)
1821.9144 1820.9071 1820.9203 -7.23 1 - 17 1 --- .MSHGPSPRLAESPQLSK.G + Oxidation (M)
1891.9144 1820.9071 1820.9203 -7.23 1 - 17 1 --- .MSHGPSPRLAESPQLSK.G + Oxidation (M)
1891.9144 1820.9071 1820.9203 -7.23 1 - 17 1 --- .MSHGPSPRLAESPQLSK.G + Oxidation (M)
1891.9144 1820.9071 1820.9203 -7.23 1 - 17 1 --- .MSHGPSPRLAESPQLSK.G + Oxidation (M)
1891.9144 1820.9071 1820.9203 -7.23 1 - 17 1 --- .MSHGPSPRLAESPQLSK.G + Oxidation (M)
1891.9144 1820.9071 1820.9203 -7.23 1 - 17 1 --- .MSHGPSPRLAESPQLSK.G + Oxidation (M)
1891.9144 1820.9071 1820.9203 -7.23 1 - 17 1 --- .MSHGPSPRLAESPQLSK.G + Oxidation (M)
1891.9144 1820.9071 1820.9203 -7.23 1 - 17 1 --- .MSHGPSPRLAESPQLSK.G + Oxidation (M)
1891.9144 1820.9071 1820.9203 -7.23 1 - 17 1 --- .MSHGPSPRLAESPQLSK.G + Oxidation (M)
1891
    768.3700
                               767.3627
                                                          767.3701 -9.61
                                                                                                       299 - 304
                                                                                                                                                            K.YEELSK.T
  No match to: 721.4365, 725.4001, 726.4063, 728.3681, 730.3848, 731.4017, 732.3573, 734.4151, 735.4143, 741.4101, 742.4515, 744.4171, 745.4167, 746.4169, 750.4153, 752.4127, 755.4100, 756.4199, 757.4313, 761.4177, 767.4266, 770.3966, 772.4093, 775.4307, 779.4308, 784.3688, 786.4000, 788.4210, 792.4376, 795.4350, 798.4351, 800.4296, 812.4388, 815.4332, 822.4482, 825.4540, 831.4382, 832.4557, 835.4719, 837.4463, 842.5060, 844.4760, 854.4837, 856.4911, 860.4691, 862.4852, 869.4231, 885.4465, 905.4955, 907.4991,
   908.4929, 913.5700, 913.5747, 916.5284, 918.5050, 919.5053, 922.5070, 928.5117, 934.5172, 940.4840, 942.4854, 943.4289, 943.5453, 946.5259, 950.4959, 951.5076, 954.5388, 959.5266, 966.5410, 969.5256, 974.5395, 976.5310, 978.5314, 979.5442, 991.5409, 993.5307,
   1001.5854, 1003.5496, 1011.5262, 1014.5215, 1021.5579, 1023.5663, 1023.5700, 1035.5381, 1036.5447, 1037.5573, 1039.5327, 1041.5658, 1044.5751, 1045.5729, 1046.5897, 1051.5448, 1056.5658, 1067.5753, 1073.5902, 1086.5509, 1092.5961, 1100.6071, 1106.5391, 1111.5615, 1113.5729, 1118.5818, 1120.6045, 1122.5912, 1123.5848, 1125.5823, 1132.6047, 1134.5714, 1139.5746, 1143.6318, 1144.6497, 1145.6407,
   1147.6393, 1150.6108, 1155.6215, 1157.6199, 1158.6685, 1162.6182, 1163.6312, 1163.6315, 1173.6418, 1175.6089, 1178.6356, 1179.6157, 1181.6819, 1188.6544, 1197.6704, 1199.7006, 1208.6415, 1216.6714, 1227.6595, 1231.6387, 1232.6447, 1234.6672, 1235.6445, 1244.6453, 1246.6211, 1248.6174, 1250.6554, 1255.6096, 1256.6531, 1261.6592, 1262.6453, 1266.6777, 1273.6260, 1275.6362, 1276.6343, 1277.6531, 1301.7079, 1303.7076, 1307.7042, 1310.6146, 1312.6418, 1315.7098, 1320.66559, 1322.6886, 1324.6964, 1328.7089, 1331.7202, 1355.7318,
   1338.6581, 1349.7253, 1356.7230, 1360.6638, 1363.7153, 1365.73319, 1367.7319, 1369.7043, 1377.6947, 1379.7268, 1383.7137, 1385.7534, 1388.7404, 1390.7284, 1393.7428, 1407.7563, 1417.7010, 1421.7061, 1422.7019, 1425.7727, 1429.7365, 1431.7412, 1434.7446, 1437.7584, 1461.7778, 1467.7521, 1472.7633, 1475.7632, 1477.7545, 1484.7889, 1488.7537, 1491.7965, 1493.7579, 1500.7737, 1505.8177, 1513.8079,
   1515.8213, 1517.7854, 1519.7544, 1522.7811, 1523.7953, 1529.8099, 1530.7523, 1531.7472, 1537.7974, 1539.8005, 1545.8091, 1547.8051, 1549.7339, 1551.7778, 1553.8065, 1555.8101, 1556.8109, 1557.8010, 1561.8401, 1563.8109, 1565.8199, 1571.8400, 1579.7939, 1580.8077,
   1587.7620, 1592.8066, 1594.8335, 1604.8323, 1605.8586, 1608.8497, 1615.8754, 1624.8062, 1628.7900, 1628.7921, 1633.7985, 1640.9384, 1646.8297, 1649.8447, 1657.8101, 1667.8622, 1677.7988, 1680.8746, 1689.9465, 1694.7288, 1698.9225, 1699.8862, 1704.8773, 1706.8701,
   1707.8302, 1710.9279, 1716.8671, 1719.9058, 1723.9011, 1725.8300, 1725.8346, 1727.8986, 1730.8931, 1737.9006, 1751.8656, 1754.8580
   1765.8463, 1766.8040, 1767.8138, 1769.8741, 1770.3567, 1772.9315, 1774.7610, 1774.9131, 1777.8770, 1780.8777, 1783.9246, 1787.8188, 1787.8200, 1791.8137, 1793.9050, 1795.9353, 1798.9340, 1800.9336, 1804.9142, 1805.9069, 1809.8469, 1815.9044, 1828.9227, 1840.9827,
   1843.9688, 1844.9012, 1846.9153, 1852.9364, 1856.9908, 1861.8881, 1867.9218, 1874.9695, 1880.9265, 1884.9417, 1891.9622, 1894.9313, 1896.9078, 1896.9100, 1900.9546, 1905.9313, 1906.9501, 1908.9043, 1911.9130, 1912.9154, 1916.9923, 1918.9587, 1921.9825, 1923.9718,
  1925.9573, 1928.0469, 1932.0060, 1933.9950, 1937.9630, 1939.9740, 1940.0040, 1946.9679, 1949.9595, 1954.0236, 1955.9738, 1958.9556, 1960.0034, 1968.8600, 1973.9845, 1976.9861, 1978.9910, 1981.9854, 1983.9884, 1987.9784, 1998.9894, 2000.9926, 2008.0460, 2012.9590, 2015.0104, 2017.9747, 2021.0170, 2026.0275, 2027.0256, 2031.0166, 2044.0123, 2047.4957, 2047.9515, 2052.0496, 2060.0520, 2062.0073, 2064.9880, 2094.0376, 2097.0454, 2102.0667, 2103.1641, 2111.0305, 2127.0930, 2139.0630, 2144.0493, 2155.0950, 2156.0796, 2160.0632,
   2176.0664, 2190.9895, 2199.0723, 2202.1624, 2203.1221, 2208.0862, 2211.1042, 2216.1062, 2225.1274, 2226.1272, 2229.0972, 2233.0984,
   2239.0225, 2242.0435, 2268.1489, 2270.1287, 2271.1294, 2277.0823, 2284.1990, 2292.1426, 2309.0994, 2334.1719, 2342.9915, 2350.1746, 2383.9607, 2398.2400, 2413.0549, 2414.1897, 2417.0959, 2497.2800, 2501.2637, 2511.1460, 2513.1421, 2528.1750, 2537.2012, 2541.1948,
   2542.1836, 2556.2058, 2562.1487, 2612.2666, 2706.2109, 2717.0869, 2767.2666, 2888.2532, 3221.1733, 3224.2917, 3312.3306, 3916.9434
                      Mass: 17221
                                                             Score: 19
                                                                                                 Expect: 3e+002 Matches: 9
   Uncharacterized protein OS=Bos taurus PE=3 SV=1
                                                          Mr (calc) ppm Start End Miss Ions
746.4109 -7.60 46 - 51 1 ---
    Observed Mr (expt)
    747.4125
                               746.4052
                                                                                                                                                           R.SMPIRK.D + Oxidation (M)
                                                                                                       131 - 136 2 ---
    752 4127
                               751 4054
                                                           751.4228 -23.11
                                                                                                                                                          K EKCKYK E
    862.4852
                              861.4779
                                                          861.4630 17.3
                                                                                                        29 - 36 0 ---
                                                                                                                                                           K.IMSSPLSK.E
  862.4852 861.4779 861.4630 17.3 29 - 30 0 -- K.YKEETIEK.M

1039.5327 1038.5254 1038.5233 2.05 135 - 142 1 --- K.YKEETIEK.M

1057.6078 1056.6005 1056.6080 -7.06 77 - 84 1 --- K.KHYIYIER.V

1234.6672 1233.6599 1233.6479 9.74 18 - 27 1 --- R.HFNAPSHIRR.K

1390.7284 1389.7211 1389.7490 -20.06 17 - 27 2 --- K.RHFNAPSHIRR.K
```

```
1407.7563 1406.7490 1406.7452 2.70 40 - 50 2 --- R.QKYNVRSMPIR.K + Oxidation (M)
1555.8101 1554.8028 1554.7977 3.32 1 - 13 2 --- -.MKFNPFVTSNRSK.N

No match to: 721.4365, 725.4001, 726.4063, 728.3681, 730.3848, 731.4017, 732.3573, 734.4151, 735.4143, 741.4101, 742.4515, 744.4171, 745.4167, 746.4169, 750.4153, 755.4100, 756.4199, 757.4313, 761.4177, 767.4266, 768.3700, 768.3737, 770.3966, 772.4093, 775.4307, 779.4308, 784.3688, 786.4000, 787.4221, 788.4210, 792.4376, 795.4350, 798.4351, 800.4296, 812.4388, 815.4332, 822.4482, 786.4001, 787.4351, 786.4016, 784.4351, 786.4016, 787.4351, 788.4210, 792.4376, 795.4350, 798.4351, 800.4296, 812.4388, 815.4332, 822.4482, 786.4001, 787.4351, 786.4016, 784.4351, 786.4016, 786.4351, 786.4016, 786.4351, 786.4016, 786.4351, 786.4016, 786.4351, 786.4016, 786.4351, 786.4016, 786.4351, 786.4016, 786.4351, 786.4016, 786.4351, 786.4016, 786.4351, 786.4016, 786.4351, 786.4016, 786.4351, 786.4016, 786.4351, 786.4016, 786.4351, 786.4016, 786.4351, 786.4016, 786.4351, 786.4016, 786.4351, 786.4016, 786.4351, 786.4016, 786.4351, 786.4016, 786.4351, 786.4016, 786.4351, 786.4016, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4351, 786.4
  825.4540, 831.4382, 832.4557, 835.4719, 837.4463, 842.5060, 844.4760, 854.4837, 856.4911, 860.4691, 869.4231, 885.4485, 905.4955, 907.4991, 908.4929, 913.5700, 913.5747, 916.5284, 918.5050, 919.5053, 922.5070, 928.5117, 934.5172, 940.4840, 942.4854, 943.4289, 943.5453, 946.5259, 950.4959, 951.5076, 953.5164, 954.5388, 959.5266, 966.5410, 969.5256, 972.5305, 974.5395, 976.5310, 978.5314, 979.5442, 991.5409, 993.5307, 1001.5854, 1003.5496, 1011.5262, 1014.5215, 1021.5579, 1023.5663, 1023.5700, 1031.5903, 1035.5381,
   1036.5447, 1037.5573, 1041.5658, 1044.5751, 1045.5729, 1046.5897, 1051.5448, 1056.5658, 1067.5753, 1073.5902, 1086.5509, 1092.5961,
  1100.6071, 1106.5391, 1111.5615, 1113.5729, 1118.5818, 1120.6045, 1122.5912, 1123.5848, 1125.5823, 1132.6047, 1134.5714, 1139.5746, 1143.6318, 1144.6497, 1145.6407, 1147.6393, 1150.6108, 1155.6215, 1157.6199, 1158.6685, 1162.6182, 1163.6152, 1168.6215, 1173.6418,
  1175.6089, 1178.6356, 1179.6157, 1181.6819, 1188.6544, 1197.6704, 1199.7006, 1208.6415, 1216.6714, 1227.6595, 1231.6387, 1232.6447, 1235.6445, 1244.6453, 1247.6211, 1248.6174, 1250.6554, 1255.6096, 1256.6531, 1261.6592, 1262.6453, 1266.6777, 1273.6260, 1275.6362,
  1276.6343, 1277.6531, 1301.7079, 1303.7076, 1307.7042, 1308.6376, 1310.6146, 1312.6418, 1315.7098, 1320.6659, 1322.6886, 1323.6771, 1324.6964, 1328.7089, 1331.7202, 1335.7318, 1338.6581, 1339.6637, 1349.7253, 1352.7205, 1356.7230, 1360.6638, 1363.7153, 1365.7379,
    1367.7319, 1369.7043, 1377.6947, 1379.7268, 1383.7137, 1385.7534, 1388.7404, 1393.7428, 1417.7010, 1421.7061, 1422.7019, 1425.7727
  1427.7742, 1429.7365, 1431.7412, 1433.7228, 1434.7446, 1437.7584, 1461.7778, 1467.7521, 1472.7633, 1475.7632, 1477.7545, 1484.7889,
    1488.7537, 1491.7965, 1493.7579, 1500.7737, 1505.8177, 1513.8079, 1515.8213, 1517.7854, 1519.7544, 1522.7811, 1523.7953, 1529.8099,
  1530.7523, 1531.7472, 1537.7974, 1539.8005, 1542.8422, 1545.8091, 1547.8051, 1549.7339, 1551.7778, 1553.8065, 1556.8109, 1557.8010, 1561.8401, 1563.8109, 1565.8199, 1571.8400, 1579.7939, 1580.8077, 1583.8444, 1587.7620, 1592.8066, 1594.8335, 1604.8323, 1605.8586,
  1608.8497, 1615.8754, 1624.8062, 1628.7900, 1628.7921, 1633.7985, 1640.9384, 1642.8099, 1646.8297, 1649.8447, 1657.8101, 1667.7988, 1680.8746, 1689.9465, 1694.7288, 1698.9225, 1699.8862, 1704.8773, 1706.8701, 1707.8302, 1710.9279, 1716.8671, 1719.9058, 1723.9011, 1725.8300, 1725.8346, 1727.8986, 1730.8931, 1737.9006, 1751.8656, 1754.8580, 1765.8463, 1766.8040, 1767.8138, 1769.8741,
  1770.3567, 1772.9315, 1774.7610, 1774.9131, 1777.8770, 1780.8777, 1783.9246, 1787.8188, 1787.8200, 1791.8137, 1793.9050, 1795.9353, 1798.9340, 1800.9336, 1804.9142, 1805.9069, 1809.8469, 1815.9044, 1821.9144, 1828.9227, 1837.9396, 1840.9827, 1843.9688, 1844.9012,
  1846.9153, 1852.9364, 1856.9908, 1861.8881, 1867.9218, 1874.9695, 1880.9265, 1884.9417, 1891.9622, 1894.9313, 1896.9078, 1896.9100, 1900.9546, 1905.9313, 1906.9501, 1908.9043, 1911.9130, 1912.9154, 1916.9923, 1918.9587, 1921.9825, 1923.9718, 1925.9573, 1928.0469,
  1932.0060, 1933.9950, 1937.9630, 1939.9740, 1944.0040, 1946.9679, 1949.9595, 1954.0236, 1955.9738, 1958.9556, 1960.0034, 1968.8600, 1973.9845, 1976.9861, 1978.9910, 1981.9854, 1983.9884, 1987.9784, 1995.9408, 1998.9894, 2000.9926, 2008.0460, 2012.9590, 2015.0104,
  2017.9747, 2021.0170, 2026.0275, 2027.0256, 2031.0166, 2044.0123, 2047.4957, 2047.9515, 2052.0496, 2060.0520, 2062.0073, 2064.9880,
  2066.9873, 2094.0376, 2097.0454, 2102.0667, 2103.1641, 2111.0305, 2127.0930, 2139.0630, 2144.0493, 2148.1023, 2155.0950, 2156.0796,
  2160.0632, 2176.0664, 2190.9895, 2195.0774, 2199.0723, 2202.1624, 2203.1221, 2208.0862, 2211.1042, 2216.1062, 2225.1274, 2226.1272,
  2229.0972, 2233.0984, 2239.0225, 2242.0435, 2268.1489, 2270.1287, 2271.1294, 2277.0823, 2284.1990, 2292.1426, 2309.0994, 2334.1719, 2342.9915, 2350.1746, 2383.9607, 2398.2400, 2400.0862, 2413.0549, 2414.1897, 2417.0959, 2497.2800, 2501.2637, 2511.1460, 2513.1421,
  2528.1750, 2537.2012, 2541.1948, 2542.1836, 2556.2058, 2562.1487, 2612.2666, 2706.2109, 2717.0869, 2767.2666, 2888.2532, 3221.1733,
  3224.2917, 3312.3306, 3916.9434
 F1MYD0 Mass: 90289 Score: 19
                                                                                                             Expect: 3e+002 Matches: 28
  Uncharacterized protein OS=Bos taurus GN=CUL1 PE=3 SV=2
    Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide
                                                                 Mr(calc) ppm Start End Miss Ions Peptide
755.4218 -12.14 671 - 676 0 --- K.LYLGYK.N
786.4235 -11.06 268 - 273 0 --- R.LLEEQR.R
942.5246 14.3 268 - 274 1 --- R.LLEEQRR.V
971.5287 -5.67 329 - 337 0 --- R.LQDGLGELK.K
     756.4199
                                   755.4126
    787.4221
                                   786.4148
    943.5453
                                  942.5381
                                 971.5232
972.5305 971.5232 971.5287 -5.67 329 - 337 0 --- R.IQDGLGELK.K

1003.5496 1002.5423 1002.5419 0.38 752 - 759 0 --- K.CIDILIEK.E

1035.5381 1034.5308 1034.5509 -19.39 26 - 34 0 --- R.AGIQQVYTR.Q

1100.6071 1099.5998 1099.6237 -21.72 329 - 338 1 --- R.IQDGLGELKK.L

1143.6318 1142.6245 1142.6270 -2.17 465 - 473 2 --- K.FYAKMLAKR.L + Oxidation (M)

1162.6182 1161.6109 1161.5965 12.5 169 - 177 0 --- R.DCLFRPLNK.Q

1199.7006 1198.6933 1198.6856 6.45 680 - 689 1 --- K.LRVNINVPMK.T + Oxidation (M)

1324.6964 1323.6891 1323.6843 18.7 2 - 13 1 --- M.SSNRSQNPHGLK.Q

1328.7089 1327.7016 1327.6806 15.9 425 - 435 2 --- R.YCDSLLKKSSK.N
1198.0933 1198.0933 1198.0936 6.45 680 - 689 1 --- K.LKWNINVPMK.1 + OXIGATION (M)
1324.6964 1323.6891 1323.6643 18.7 2 - 13 1 --- K.LKWNINVPMK.1 + OXIGATION (M)
1328.7089 1327.7016 1327.6806 15.9 425 - 435 2 --- R.YCDSLLKKSSK.N
1437.7584 1436.7511 1436.7446 4.55 504 - 515 1 --- K.LQRMFQDIGVSK.D + OXIGATION (M)
1580.8077 1579.8004 1579.8140 -8.62 26 - 39 1 --- R.AGIQQVYTRQSMAK.S
1587.7620 1586.7547 1586.7511 2.28 494 - 506 1 --- K.QACGFEYTSKLQR.M
1604.8323 1603.8250 1603.8432 -11.34 460 - 472 2 --- K.DVFQKFYAKMLAK.R + OXIGATION (M)
1604.8323 1603.8250 1603.8432 -11.34 460 - 472 2 ---- K.DVFQKFYAKMLAK.R + Oxidation (M)
1640.9384 1639.9311 1639.9621 -18.87 178 - 191 2 ---- K.QVTNAVLKLIEKER.N
1793.9050 1792.8977 1792.9036 -3.26 455 - 468 2 ---- K.YLEDKDVFQKFYAK.M
1828.9227 1827.9154 1827.9301 -8.05 492 - 506 2 ---- K.LKQACGFEYTSKLQR.M
1884.9417 1883.9344 1883.8973 19.7 694 - 708 2 ---- K.QEQETTHKNIEEDRK.L
1944.0040 1942.9967 1942.9861 5.48 274 - 289 1 ---- R.RVQVYLHESTQDELAR.K
2008.0460 2007.0387 2007.0789 -20.03 72 - 90 2 ---- K.SKKGQTFGGAQFVGLELYK.R
2027.0256 2026.0183 2026.0193 -0.51 507 - 523 2 ---- R.MFQDIGVSKDLNEQFKK.H
2144.0493 2143.0420 2143.0579 -7.40 474 - 493 1 ---- R.LVHQNSASDDAEASMISKLK.Q
2160.0632 2159.0559 2159.0528 1.44 474 - 493 1 ---- R.LVHQNSASDDAEASMISKLK.Q + Oxidation (M)
2398.2400 2397.2327 2397.1958 15.4 682 - 701 2 ---- R.VNINVPMKTEQKQEQETTHK.N + Oxidation (M)
2511.1460 2510.1387 2510.1788 -15.95 243 - 262 1 ---- R.FYTRESTEFLQQNFVTEYMK.K
2767.2666 2766.2593 2766.2119 17.1 106 - 127 1 ---- K.DGEDLMDESVLKFYTQQWEDYR.F
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  1707.8302, 1710.9279, 1716.8671, 1719.9058, 1723.9011, 1725.8300, 1725.8346, 1727.8986, 1730.8931, 1737.9006, 1751.8656, 1754.8580,
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             2199.0723, 2202.1624, 2203.1221, 2208.0862, 2211.1042, 2216.1062, 2225.1274, 2226.1272, 2229.0972, 2233.0984, 2239.0225, 2242.0435,
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            2612.2666, 2706.2109, 2717.0869, 2888.2532, 3221.1733, 3224.2917, 3312.3306, 3916.9434
50. F1MHT3 Mass: 217593 Score: 19
                                                                                        Expect: 3e+002 Matches: 55
            Uncharacterized protein OS=Bos taurus GN=MYO5A PE=4 SV=2

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss
        Ions
        Peptide

        726.4063
        725.3990
        725.3894
        13.2
        836 -
        840
        1 ---
        R.YKIMR

        732.3573
        731.3500
        731.3450
        6.91
        938 -
        943
        0 ---
        K.VDEQNI

                                                                                                                                            R.YKIMR.T + Oxidation (M)
                                                                                                                                            K.VDEONK.D
             746.4169
                                   745.4096
                                                         K.ODKTVR.K
                                                                                                                         0 ---
             767.4266
                                   766.4194
                                                                                                                                            K.EVLNHR.I
                                                         791.4258 5.75 900 - 905 2 ---
794.4221 7.07 829 - 834 1 ---
824.4578 -13.49 710 - 715 1 ---
831.4450 4.15 718 - 724 1 ---
             792 4376
                                   791 4303
                                                                                                                                            R RMMAKR E
             795.4350
                                   794.4277
                                                                                                                                            R.MYVARR.R
             825 4540
                                   824 4467
                                                                                                                                            R.YRVLMK.O + Oxidation (M)
             832.4557
                                   831.4485
                                                                                                                                            K.DVLSDRK.Q
                                                         884.4392 0.05 741 - 747 1 ---
904.4767 12.8 692 - 700 0 ---
             885.4465
                                   884.4393
                                                                                                                                            K.DKYOFGK.T
             905 4955
                                   904 4883
                                                                                                                                            R.ISAAGFPSR.W
                                                          915.5324 -12.32 931 - 937 1 ---
             916.5284
                                   915.5211
                                                                                                                                            K.IMQLQRK.V
             951 5076
                                   950 5004
                                                         950.5232 -24.04 829 - 835
                                                                                                                         2 ---
                                                                                                                                            R.MYVARRR.Y
          959.5266 958.5193 958.5196 -0.24 912 - 919 1 ---
972.5305 971.5232 971.5301 -7.06 633 - 640 1 ---
978.5314 977.5241 977.5182 6.06 754 - 762 0 ---
1056.5658 1055.5585 1055.5359 21.4 1192 - 1199 0 ---
1106.5391 1105.5318 1105.5404 -7.73 249 - 257 0 ---
1113.5729 1112.5656 1112.5913 -23.07 809 - 816 2 ---
1133.5714 1133.5641 1133.5677 - 23.12 500 600 0
                                                                                                                                            K.IEARSVER.Y
                                                                                                                                            K.KTVGHQFR.N
                                                                                                                                            R.AGQVAYLEK.L
                                                                                                                                            K.EEERPOIR.G
                                                                                                                                            R.VVFQAEEER.N
                                                                                                                                            R.CYAKFLRR.T
           1134.5714 1133.5641 1133.5677 -3.12 598 - 609 0 ---
                                                                                                                                            K.AISPTSATSSGR.I
            1162.6182 1161.6109 1161.6393 -24.46 1308 - 1318
                                                                                                                                            K.GEIAQAYIGLK.E
            1173.6418 1172.6345 1172.6401 -4.73 1323 - 1332 0 ---
                                                                                                                                            R.LLESQLQSQK.R
            1178.6356 1177.6283 1177.6417 -11.34 1150 - 1159 0 ---
                                                                                                                                            K.VPLDMSLFLK.L + Oxidation (M)
           1188.6544 1187.6471 1187.6557 -7.21 1807 - 1815 2 ---
1208.6415 1207.6342 1207.6422 -6.56 622 - 632 1 ---
                                                                                                                                            R.TIQMRLRDR.K
                                                                                                                                            K.GRPGQTAKEHK.K
           1231.6387 1230.6314 1230.6455 -11.47 1031 - 1040 1 ---
                                                                                                                                            K.EENTLLKQEK.E
            1247.6211 1246.6138 1246.5942 15.8 1010 - 1019 1 ---
                                                                                                                                            K.SIEEHADRYK.Q
           1250.6554 1249.6481 1249.6778 -23.78 912 - 921 2 --- K.IEARSVERYK.K
           1261.6592 1260.6519 1260.6384 10.8 1816 - 1826 1 --- R.KDSPQLLMDAK.H + Oxidation (M) 1320.6659 1319.6586 1319.6873 -21.77 1401 - 1410 1 --- K.YQSYRISLYK.R
          1338.6581 1337.6508 1319.6675 -21.7/ 1401 - 1410 1 --- K.Igirishir.k
1338.6581 1337.6508 1337.6775 -19.93 877 - 886 2 --- R.GWLARTCYRR.S
1417.7010 1416.6937 1416.7170 -16.44 503 - 514 0 --- K.Igiriblideeck.M
1421.7061 1420.6988 1420.7054 -4.62 1411 - 1421 1 --- K.RMIDLMEQLEK.Q + Oxidation (M)
1472.7633 1471.7560 1471.7823 -17.88 220 - 231 2 --- R.FGKYIEIGFDKR.Y
           1513.8079 1512.8006 1512.7896 7.30 1068 - 1079 1 --- K.QLELDLNDERLR.Y
1531.7472 1530.7399 1530.7388 0.73 1474 - 1485 2 --- K.EKDFQGMLEYKK.E + Oxidation (M)
           1561.8401 1560.8328 1560.8624 -18.92 754 - 767 2 ---
1579.7939 1578.7866 1578.8253 -24.50 1018 - 1030 1 ---
                                                                                                                                            R.AGOVAYLEKLRADK.L
                                                                                                                                            R.YKQETEQLVSNLK.E
           1646.8297 1645.8224 1645.8158 4.00 968 - 981 1 ---
1680.8746 1679.8673 1679.8916 -14.45 1304 - 1318 2 ---
                                                                                                                                            R.SDLERLOLSEEEAK.I
                                                                                                                                            K.MKDKGEIAQAYIGLK.E + Oxidation (M)
           1707.8302 1706.8229 1706.8397 -9.81 1289 - 1303 0 ---
1710.9279 1709.9206 1709.9069 8.04 923 - 936 1 ---
                                                                                                                                            K.NTMTDSTILLEDVQK.M
                                                                                                                                            K.LHIGMENKIMOLOR.K
           1725.8300 1724.8227 1724.8589 -21.00 1099 - 1113 0 5
                                                                                                                                            K.EEMTLMVNVPKPGHK.R + Oxidation (M)
           1725.8346 1724.8273 1724.8589 -18.33 1099 - 1113 0 --- K.EEMTLMVNVPKPGHK.R + Oxidation (M)
          1725.8346 1724.8273 1724.8589 -18.33 1099 - 1113 0 --- K.EEMTLMVNVPKPGHK.R + C 1840.9827 1839.9754 1840.0029 -14.92 232 - 246 2 --- R.YRIIGANMRTYLLEK.S 1856.9908 1855.9835 1855.9978 -7.68 232 - 246 2 --- R.YRIIGANMRTYLLEK.S + C 1944.0040 1942.9967 1942.9847 6.18 1062 - 1077 1 --- K.LVEETKQLELDLNDER.L 1976.9861 1975.9788 1976.0070 -14.28 1412 - 1427 2 --- R.MIDLMEQLEKQDKTVR.K 1998.9894 1997.9821 1997.9649 8.60 1289 - 1305 1 --- K.NTMIDSTILLEDVQKMK.D + 2026.0275 2025.0202 2025.0638 -21.52 1406 - 1421 2 --- R.ISLYKRMIDLMEQLEK.Q + 2097.0454 2096.0381 2096.0902 -24.83 241 - 257 2 --- R.TYLLEKSRVVFQAEEER.N 2176.0664 2175.0591 2175.0807 -9.92 1192 - 1209 1 --- K.EEERPQIRGAELEYESLK.R
                                                                                                                                            R.YRIIGANMRTYLLEK.S + Oxidation (M)
                                                                                                                                            K.NTMTDSTILLEDVOKMK.D + 2 Oxidation (M)
                                                                                                                                            R. TSLYKRMIDIMEOLEK.O + Oxidation (M)
           2226.1272 2225.1199 2225.1263 -2.85 641 - 659 0 --- R.NSLHLLMETLNATTPHYVR.C + Oxidation (M) 2233.0984 2232.0911 2232.0917 -0.24 149 - 169 2 --- K.QMARDERNQSIIVSGESGAGK.T
           2242.0435 2241.0362 2241.0868 -22.58 1289 - 1307 2 ---
2501.2637 2500.2564 2500.3020 -18.23 1020 - 1040 2 ---
                                                                                                                                            K.NTMTDSTILLEDVOKMKDK.G + 2 Oxidation (M)
                                                                                                                                            K.QETEQLVSNLKEENTLLKQEK.E
           2501.2637 2500.2564 2500.3020 -18.23 1020 - 1040 2 --- R.QETEQLVSNIKEENTLLKQEK.E

No match to: 721.4365, 725.4001, 728.3681, 730.3848, 731.4017, 734.4151, 735.4143, 741.4101, 742.4515, 744.4171, 745.4167, 747.4125, 750.4153, 752.4127, 755.4100, 756.4199, 757.4313, 761.4177, 768.3700, 768.3737, 770.3966, 772.4093, 775.4307, 779.4308, 784.3688, 786.4000, 787.4221, 788.4210, 798.4351, 800.4296, 812.4388, 815.4332, 822.4482, 831.4382, 835.4719, 837.4463, 842.5060, 844.4760, 854.4837, 856.4911, 860.4691, 862.4852, 869.4231, 907.4991, 908.4929, 913.5700, 913.5747, 918.5050, 919.5053, 922.5070, 928.5117, 934.5172, 940.4840, 942.4854, 943.4289, 943.5453, 946.5259, 950.4959, 953.5164, 954.5388, 966.5410, 969.5256, 974.5395, 976.5310, 979.5442, 991.5409, 993.5307, 1001.5854, 1003.5496, 1011.5262, 1014.5215, 1021.5579, 1023.5663, 1023.5700, 1031.5903, 1036.5381, 1036.5447, 1037.5573, 1039.5327, 1041.5658, 1044.5751, 1045.5729, 1046.5897, 1051.5448, 1057.6078, 1067.5753, 1073.5902, 1096.5501, 100.6071, 1111.5612, 1111.5612, 1045.5729, 1046.5897, 1051.5448, 1057.6078, 1067.5753, 1073.5902, 1096.5501, 100.6071, 1111.5612, 1111.5612, 1112.5612, 1123.5804, 1123.5804, 1123.5802, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.5804, 1123.58
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Search Parameters

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Oxidation (M)
Variable modifications :
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Fragment Mass Tolerance: ± 0.5 Da
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Mascot: http://www.matrixscience.com/

MATRIX Mascot Search Results

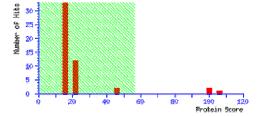
User : 1w_(F23@11273_12Mar2012)
Email : proteomics@ipatimup.pt
Search title : Project: Proteomica, Spot Set: Proteomica\12Jan2012, Label: F23, Spot Id: 221886, Peak List Id: 435348, MS Job Run Id: 30
MS data file : C:\Documents and Settings\Administrator\Desktop\xu\xu\xu\Proteomica\12Jan2012\ppw_F23_146796935502.txt

Database : OrganismSpecie Bos_taurus_Reference_Proteome_2016_06 (24214 sequences; 12839866 residues)
Timestamp : 8 Jul 2016 at 10:05:41 GMT
Warning : A Peptide summary report will usually give a much clearer picture of MS/MS search results.
Top Score : 106 for E1B198, Uncharacterized protein OS=Bos taurus GN=COL6A1 PE=1 SV=1

Mascot Score Histogram

Protein score is -10*Log(P), where P is the probability that the observed match is a random event. Protein scores greater than 56 are significant (p<0.05).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



Protein Summary Report



Index

	Accession	Mass	Score	Description
1	E1BI98	109744		Uncharacterized protein OS=Bos taurus GN=COL6A1 PE=1 SV=1
	P02459	142825		Collagen alpha-1(II) chain OS=Bos taurus GN=COL2A1 PE=1 SV=4
	F1MSR8	134858		Collagen alpha-1(II) chain OS=Bos taurus GN=COL2A1 PE=4 SV=2
	F1MKG2	110451		Uncharacterized protein OS=Bos taurus GN=COL6A2 PE=1 SV=2
	G3MXU3	25162		Uncharacterized protein OS=Bos taurus GN=COL6A2 PE=4 SV=1
	Q32LI7	30313		Putative uncharacterized protein MgC133880 OS-Bos taurus GN=MGC133880 PE=2 SV=1
	P46171	4789		Beta-defensin 13 OS=Bos taurus GN=DEFB13 PE=1 SV=1
	Q0VC96	22800		Thymocyte nuclear protein 1 OS=Bos taurus GN=THYN1 PE=2 SV=1
	P62935	18086	20	
	Q29RM9	23940	20	
	Q28024	8166	20	
	P46170	4445	20	
	Q29RZ4	49390	19	
	A7Z060	81637		RNF219 protein OS=Bos taurus GN=RNF219 PE=2 SV=1
	P48427	12756	19	
	Q3ZBD3	12035	19	Pterin-4-alpha-carbinolamine dehydratase OS=Bos taurus GN=PCBD1 PE=3 SV=2
	F1MK70	59648	19	•
	Q5EAC6	45065	18	
	Q2HJG7	16553	18	Protein Churchill OS=Bos taurus GN=CHURC1 PE=2 SV=2
20.	Q0VCG0	10705		LYR motif-containing protein 4 OS=Bos taurus GN=LYRM4 PE=3 SV=1
	G3N0J4	6707		Uncharacterized protein OS=Bos taurus PE=4 SV=1
22.	F1N2B6	97976	18	Uncharacterized protein OS=Bos taurus GN=AR PE=3 SV=2
23.	A8QW39	16136		Protein FAM183A OS=Bos taurus GN=FAM183A PE=2 SV=1
24.	Q0VCW1	42846	18	Speckle-type POZ protein OS=Bos taurus GN=SPOP PE=2 SV=1
	Q95106	28555	17	Brain-derived neurotrophic factor OS=Bos taurus GN=BDNF PE=2 SV=2
26.	G5E620	21503	17	Uncharacterized protein OS=Bos taurus GN=LOC101904345 PE=4 SV=1
27.	Q0II95	50922	17	Inositol hexakisphosphate kinase 1 OS=Bos taurus GN=IP6K1 PE=2 SV=1
28.	F6QWT9	13281	17	Uncharacterized protein OS=Bos taurus GN=FAM229A PE=4 SV=1
29.	A4FV50	40277	17	MGC142792 protein OS=Bos taurus GN=MGC142792 PE=2 SV=1
30.	G3MXX8	36525	17	Uncharacterized protein OS=Bos taurus GN=SCRT1 PE=4 SV=1
31.	G5E5D2	21544	17	Uncharacterized protein OS=Bos taurus GN=TNNI2 PE=4 SV=1
32.	Q2YDE5	22966	17	Uncharacterized protein C14orf53 homolog OS=Bos taurus PE=2 SV=1
33.	F1N7K1	24749	17	Ropporin-1-like protein OS=Bos taurus GN=ROPN1L PE=4 SV=1
34.	F1N1Y9	49406	17	Zinc finger protein 2 OS=Bos taurus GN=ZNF2 PE=4 SV=2
35.	P79136	34176	17	F-actin-capping protein subunit beta OS=Bos taurus GN=CAPZB PE=1 SV=1
	Q0VC77	19543	17	CCDC49 protein OS=Bos taurus GN=CCDC49 PE=2 SV=1
	F1MHL1	40868	17	Hsp90 co-chaperone Cdc37 OS=Bos taurus GN=CDC37 PE=1 SV=2
38.	F1MQW7	14077	16	Uncharacterized protein OS=Bos taurus GN=C15H11orf97 PE=4 SV=2
	E1B9E7	17216	16	Uncharacterized protein OS=Bos taurus GN=LOC783279 PE=4 SV=2
	E1BA70	34295		Uncharacterized protein OS=Bos taurus PE=4 SV=1
	F1MR52	116761	16	Uncharacterized protein OS=Bos taurus PE=4 SV=2
	E1B705	50364		Uncharacterized protein OS=Bos taurus GN=RASSF9 PE=4 SV=2
	E1BDB7	30920		Uncharacterized protein OS=Bos taurus GN=CEBPE PE=4 SV=1
	Q0P584	23768		Uncharacterized protein OS=Bos taurus GN=ZMAT2 PE=2 SV=1
	F1MH60	51585		Uncharacterized protein OS=Bos taurus GN=SPRED1 PE=4 SV=2
	Q3ZCH0	73981	16	
	Q0P571	19114	16	1 · · · · · · · · · · · · · · · · · · ·
48.	G3N0L1	8718	16	Uncharacterized protein OS=Bos taurus GN=FGF12 PE=3 SV=1

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    49. G3MYV8 6868 16 Uncharacterized protein OS=Bos taurus PE=4 SV=1
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Results List

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                                                                         K.AVQEAQR.A
                                               425 - 433
             881.4397
                          881.4468
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882.4470
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             886.4222
                          886.4145
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                                               864 - 871
                                                                         R.TDPGODVR.V
                                                                         R.EASSNAAKK.R
905.4763
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                                                                         K.GSRGPKGYK.G
949 5244
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                                               311 - 319
                                        6.76 723 - 731 0 ---
 957.5792
             956.5719
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                                                                         R.IALVITDGR.S
             977.5279
                          977.5043
                                               976 - 983
1006.5120 1005.5047 1005.4879
                                                69 - 76
                                       16.7
                                               714 - 722
1021.5762
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                                                                         R.LLPPTPNNR.I
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1046.6058 1045.5985 1045.5920
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1156.5652 1155.5579 1155.5594
1178.6371
            1177.6298
                        1177.6428
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                                                                         R.GPRGTPGARGPR.G
1184.6431 1183.6358 1183.6350
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1488.7366 1487.7293 1487.7157
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                                               69 - 79
                                                                         R.FIDNLNDRYYR.C
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                                        9.42
                                                                         K.VFSVAITPDHLEPR.L
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                                               152 - 180
3159.5210 3158.5137 3158.5230 -2.95
                                                                         K.YLVVVTDGHPLEGYKEPCGGLEDAVNEAK.H
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                                                                                                                                            3127.4749.
3141.4126, 3143.5066, 3144.5298, 3219.4854, 3236.5574, 3266.6021, 3280.5635, 3321.6216, 3344.4895, 3347.5515, 3348.5020, 3396.5195,
3412.5801, 3428.5874, 3444.5840, 3462.6301, 3478.6123, 3484.6497, 3489.7246, 3505.6919, 3510.5859, 3521.6392, 3552.6614, 3553.6028, 3554.5630, 3558.6460, 3573.6545, 3589.6523, 3608.6155, 3624.6685, 3630.5806, 3641.7090, 3651.7944, 3667.7266, 3683.6980, 3691.7681,
3707.7200, 3714.5493, 3715.6206, 3719.6914, 3720.7048, 3723.7041, 3735.7100, 3751.7539, 3830.8091, 3869.7393, 3876.6707, 3885.6946
```

```
Mass: 142825 Score: 101
                                                                       Expect: 1.9e-006 Matches: 36
 Collagen alpha-1(II) chain OS=Bos taurus GN=COL2A1 PE=1 SV=4

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss
        Ions

        828.4415
        827.4342
        827.4250
        11.2
        335 - 344
        0 ---

                                                                                                                   R.TGPAGAAGAR.G
  868.4412
                      867.4339
                                          867.4199
                                                              16.1
                                                                          384 - 392 0 ---
                                                                                                                   R.GPEGAOGPR.G
  949.5244
                                                                                                   0 ---
                     948.5171
                                         948.5029
                                                              15.0 1164 - 1174
                                                                                                                   R.GPPGPVGPSGK.D
1041.5637 1040.5564 1040.5475 8.55 333 - 344 1 ---
1126.6241 1125.6168 1125.6183 -1.29 276 - 287 0 ---
                                                                                                                   R.GRTGPAGAAGAR.G
                                                                                                                   R.GFPGTPGLPGVK.G
1143.5592 1142.5519 1142.5720 -17.60 516 - 527 0 ---
1150.6226 1149.6153 1149.5931 19.4 1334 - 1342 2 ---
1227.6459 1226.6386 1226.6156 18.8 288 - 299 1 ---
1293.6760 1292.6687 1292.6473 16.6 804 - 818 0 ---
                                                                                                                   R.GFPGQDGLAGPK.G
                                                                                                                   K.KNWWSSKSK.D
                                                                                                                   K.GHRGYPGLDGAK.G
                                                                                                                   K.GEVGPPGPAGTAGAR.G
1349.6729 1348.6656 1348.6445 15.7 1230 - 1240 1 ---
                                                                                                                   R.EKGPDPLQYMR.A + Oxidation (M)
 1423.7096 1422.7023 1422.6964
                                                              4.17 926 - 940
                                                                                                                   K.DGPKGARGDSGPPGR.A
 1503.7648 1502.7575 1502.7325 16.7 1116 - 1130 2 ---
                                                                                                                   R.GDKGETGEAGERGLK.G
1526.7924 1525.7851 1525.7711
                                                              9.19 1445 - 1456 2 ---
                                                                                                                   K.WGKTMIEYRSOK.T
1551.7465 1550.7591 1550.7260 8.55 1089 - 1106 0 ---
1553.7668 1552.7595 1552.7706 -7.13 1119 - 1133 2 ---
                                                                                                                   R.GEAGAOGPMGPAGPAGAR.G
                                                                                                                   K.GETGEAGERGLKGHR.G
1625.7886 1624.7813 1624.7805 0.50 765 - 781 2 ---
1650.8429 1649.8356 1649.8710 -21.43 327 - 344 2 ---
1664.8490 1663.8417 1663.8026 23.5 375 - 392 1 ---
                                                                                                                   K.GDRGDVGEKGPEGAPGK.D
                                                                                                                   R.GLPGERGRTGPAGAAGAR.G
                                                                                                                   K.GEAGPTGARGPEGAOGPR.G
1710.8904 1709.8831 1709.8485 20.2 516 - 533 1 ---
1829.8527 1828.8454 1929.8005
                                                                                                                   R.GDVGEKGPEGAPGKDGGR.G
                                                                                                                   R.GFPGODGLAGPKGAPGER.G
1829.8527 1828.8454 1828.8205
1845.8363 1844.8290 1844.8154
                                                             13.6 191 - 209 0 ---
7.38 191 - 209 0 ---
                                                                                                                   K.AGGAOMGVMOGPMGPMGPR.G
                                                                                                                   K.AGGAQMGVMQGPMGPMGPR.G + Oxidation (M)
1861.8531 1860.8458 1860.8103 19.1 191 - 209 0 ---
1973.9971 1972.9898 1972.9425 24.0 1232 - 1249 1 ---
                                                                                                                   K.AGGAQMGVMQGPMGPMGPR.G + 2 Oxidation (M)
                                                                                                                   K.GPDPLQYMRADEAAGNLR.Q
2007.9530 2006.9427 2006.9341 4.31 1085 - 1106 1 101
2007.9532 2006.9459 2006.9341 5.91 1085 - 1106 1 ---
                                                                                                                   K.QGDRGEAGAQGPMGPAGPAGAR.G
                                                                                                                   K.QGDRGEAGAQGPMGPAGPAGAR.G

    2001.932
    2006.9459
    2006.9341
    5.91
    1085 - 1106
    1
    ---

    2023.9482
    2022.9409
    2022.9290
    5.90
    1085 - 1106
    1
    ---

    2029.9972
    2028.9899
    2028.9726
    8.55
    120 - 140
    2
    ---

    2082.9822
    2081.9749
    2081.9549
    9.63
    1107 - 1127
    2
    ---

    2143.0237
    2142.0164
    2142.0276
    -5.24
    732 - 755
    0
    ---

    2283.1606
    2282.1533
    2282.1114
    18.4
    597 - 620
    2
    ---

    2400.0532
    2399.0459
    2399.0596
    -5.70
    1313 - 1333
    0
    ---

                                                                                                                   K.QGDRGEAGAQGPMGPAGPAGAR.G + Oxidation (M)
                                                                                                                   K.GPPGPQGPAGEQGPRGDRGDK.G
                                                                                                                   R.GMPGPOGPRGDKGETGEAGER.G
                                                                                                                   K.GAAGPAGPPGAOGPPGLOGMPGER.G + Oxidation (M)
                                                                                                                   R.GQPGVMGFPGPKGANGEPGKAGEK.G + Oxidation (M)
                                                                                                                   K.VFCNMETGETCVYPNPASVPK.K
2844.3398 2843.3325 2843.3951 -22.01 1017 - 1048 1 ---
3023.3674 3022.3601 3022.3992 -12.93 210 - 242 0 ---
                                                                                                                   R.GPPGPVGPPGLTGPAGEPGREGSPGADGPPGR.D
                                                                                                                   R.GPPGPAGAPGPOGFOGNPGEPGEPGVSGPMGPR.G + Oxidation (M)
3321.6216 3320.6143 3320.6763 -18.67 1128 - 1163 2 ---
3869.7393 3868.7320 3868.8056 -19.03 1346 - 1379 0 ---
                                                                                                                   R.GLKGHRGFTGLQGLPGPPGPSGDQGASGPAGPSGPR.G
                                                                                                                   K.HIWFGETINGGFHFSYGDDNLAPNTANVQMTFLR.L
 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7320 3606.7
 805.4417, 807.4076, 810.3293, 812.3207, 818.3782, 820.3700, 829.4508, 830.4513, 834.3805, 842.5101, 849.3834, 852.4368, 857.4457, 860.4262, 870.4462, 873.4370, 877.4166, 880.4280, 882.4470, 883.4816, 887.4295, 889.4857, 891.4872, 894.4923, 898.4610, 900.5174,
 905.4763, 907.4251, 912.5086, 914.4942, 920.4296, 922.4855, 928.4565, 929.4484, 933.4327, 936.4976, 938.5062, 944.4982, 950.5168, 957.5792, 961.5109, 965.5151, 967.4963, 972.5023, 974.4913, 976.5255, 978.5352, 981.5225, 983.6221, 986.5463,
                                                                                                                                                                                                                         946 4672
 993.5123, 995.4512, 998.5833, 1000.5594, 1006.5120, 1007.5640, 1021.5762, 1024.5542, 1031.5300, 1034.5703, 1037.5466, 1043.5297, 1044.5375, 1045.5594, 1046.6058, 1054.5287, 1056.5575, 1057.6187, 1057.6200, 1068.5790, 1074.6162, 1076.6190, 1082.6056, 1105.5938, 1110.5851, 1113.5701, 1118.5687, 1120.6050, 1122.5892, 1123.6047, 1128.5618, 1130.5756, 1135.5951, 1137.5647, 1145.6373, 1148.6318,
 1149.6230, 1156.5652, 1157.5676, 1159.5890, 1160.5966, 1169.5873, 1177.6421, 1178.6371, 1180.6443, 1182.6539, 1184.6431, 1185.6815, 1193.6090, 1194.6001, 1209.6238, 1213.7180, 1216.7178, 1221.5953, 1229.6874, 1234.6899, 1238.2251, 1239.6622, 1254.6993, 1255.6351,
 1264.7139, 1265.1680, 1265.7196, 1269.6532, 1276.6729, 1278.6892, 1281.6375, 1285.6674, 1289.7029, 1301.6362, 1303.6489, 1304.6685, 1306.6946, 1308.6797, 1314.7227, 1319.6770, 1320.6364, 1323.6815, 1326.6937, 1328.6799, 1333.7430, 1336.7301, 1337.6429, 1351.6969,
  1353.6891, 1356.6255, 1358.6919, 1359.7013, 1361.7147, 1364.7118, 1365.6619, 1366.6965, 1372.6228, 1375.6693, 1382.6771,
 1390.7089, 1393.8007, 1397.7449, 1403.7434, 1410.7849, 1416.7737, 1420.7114, 1434.7847, 1436.7469, 1442.8257, 1445.7913, 1456.7555,
                    1467.7560, 1470.7466, 1475.7615, 1479.8038, 1483.7579,
                                                                                                                       1484.7480, 1487.7660, 1488.7366, 1493.7556, 1500.7393,
 1504.7708, 1514.7063, 1516.7281, 1519.7705, 1522.7722, 1524.8040, 1528.7079, 1530.7058, 1536.7252, 1537.7859, 1540.8043, 1543.7938,
 1550.7543, 1555.7836, 1556.8011, 1562.8008, 1568.7620, 1572.7245, 1578.8058, 1580.8580, 1580.8600, 1584.8486, 1587.7675, 1608.8051,
 1616.8165, 1621.7870, 1628.7313, 1632.8120, 1635.7964, 1637.7974, 1642.7417, 1647.8439, 1651.8369, 1655.8147, 1657.8483, 1658.8953, 1660.8379, 1662.8666, 1666.7892, 1679.8091, 1680.8357, 1696.8464, 1698.8180, 1701.8243, 1702.8386, 1707.8938, 1714.7905, 1716.8219,
  1717.9052, 1718.9094, 1721.8976, 1722.9003, 1724.9030, 1728.8840, 1730.8910, 1734.1617, 1738.8267, 1739.8165, 1741.8934,
 1747.9127, 1758.4807, 1758.8918, 1761.8734, 1765.8154, 1772.0012, 1774.9300, 1774.9319, 1779.9012, 1781.8585, 1783.8062, 1787.8407, 1809.0583, 1810.0460, 1812.9126, 1832.8584, 1833.8571, 1834.8650, 1836.8618, 1838.8677, 1847.8600, 1848.8938, 1850.9128, 1851.8932,
 1862.9542, 1864.9258, 1880.9026, 1883.7704, 1887.8878, 1897.7863, 1902.9769, 1904.9276, 1908.8986, 1920.9131, 1923.9126, 1928.0443, 1932.0068, 1936.9510, 1938.0171, 1947.9314, 1958.9393, 1959.9655, 1960.9813, 1961.9463, 1967.1549, 1969.9951, 1975.9755, 1976.9708,
 1990.4971, 1990.9373, 1991.4857, 1997.8479, 2001.8607, 2003.8768, 2004.8850, 2011.9381, 2012.8951, 2015.9694, 2017.9860, 2018.9740,
 2020.1631, 2026.9529, 2027.5033, 2043.5356, 2044.9940, 2055.0205, 2057.0154, 2060.9878, 2066.9939, 2068.9661, 2086.0254, 2088.1033,
 2097.0371, 2098.4941, 2102.9954, 2109.0095, 2112.9932, 2114.9707, 2122.9578, 2128.0444, 2130.9980, 2132.0200, 2136.9250, 2140.0063,
 2144.0559, 2145.0781, 2148.0483, 2153.0049, 2153.9973, 2174.0508, 2175.0435, 2178.0483, 2188.0610, 2191.0464, 2192.0427, 2199.1150,
 2205.0615, 2211.1067, 2223.1533, 2225.1382, 2226.1472, 2239.1646, 2243.1448, 2246.9482, 2251.1108, 2255.1484, 2265.0837, 2271.1211,
 2273.0735, 2277.0642, 2285.1355, 2286.0986, 2289.0901, 2291.0173, 2309.0349, 2328.9888, 2343.0608, 2352.9583, 2355.0383, 2366.9595, 2371.0325, 2392.1594, 2424.1577, 2434.2429, 2438.2283, 2449.2180, 2450.2451, 2451.2480, 2465.1592, 2466.2458, 2467.2458, 2478.1377,
 2501.2207, 2523.2014, 2526.2585, 2540.2451, 2542.2578, 2545.2258, 2550.2373, 2561.6841, 2562.1826, 2562.6890, 2573.2495, 2576.1792, 2646.9758, 2659.2144, 2661.1409, 2662.0120, 2671.1924, 2681.2705, 2682.2888, 2685.3098, 2689.3059, 2695.1064, 2696.2695, 2699.2324,
 2703.2529, 2705.2944, 2712.2937, 2717.2903, 2720.2839, 2721.2937, 2726.2935, 2727.2986, 2728.3079, 2739.2837, 2743.2729, 2744.2207,
 2745.2256, 2746.2031, 2748.2295, 2755.2700, 2760.2590, 2763.1829, 2771.2400, 2778.1865, 2785.2969, 2786.2561, 2787.2524, 2790.2317, 2792.2166, 2800.3093, 2801.2932, 2803.2415, 2804.2429, 2807.2869, 2808.2227, 2812.2244, 2813.2373, 2817.2632, 2820.2441, 2824.2598,
 2828.2454, 2833.2544, 2843.2900, 2847.3630, 2851.3313, 2864.3188, 2890.3293, 2896.4324, 2908.3105, 2910.3325, 2911.3594, 2912.4265, 2925.3323, 2927.4434, 3025.3865, 3026.3452, 3039.3838, 3042.3542, 3070.3745, 3071.3933, 3086.3984, 3087.3970, 3093.4294, 3101.3831,
 3103.4006,
 3103.4006, 3104.4041, 3110.4143, 3127.4749, 3141.4126, 3143.5066, 3144.5298, 3159.5210, 3219.4854, 3236.5574, 3266.6021, 3280.5635, 3344.4895, 3347.5515, 3348.5020, 3380.5210, 3396.5195, 3412.5801, 3427.6099, 3428.5874, 3444.5840, 3462.6301, 3478.6123, 3484.6497,
 3489.7246, 3505.6919, 3510.5859, 3521.6392, 3552.6614, 3553.6028, 3554.5630, 3558.6460, 3573.6545, 3589.6523, 3608.6155, 3624.6685,
 3630.5806, 3641.7090, 3651.7944, 3667.7266, 3683.6980, 3691.7681, 3707.7200, 3714.5493, 3715.6206, 3719.6914, 3720.7048, 3723.7041, 3735.7100, 3751.7539, 3830.8091, 3876.6707, 3885.6946
                   Mass: 134858 Score: 101 Expect: 1.9e-006 Matches: 36
 Collagen alpha-1(II) chain OS=Bos taurus GN=COL2A1 PE=4 SV=2
  Observed
                     Mr (expt)
                                         Mr(calc)
                                                          ppm Start
                                                                                        End Miss Ions Peptide
                                                                                        275 0 ---
                                                                         266 -
                                                                                                                   R.TGPAGAAGAR.G
                      867.4339
                                          867.4199
                                                                         315 - 323
                                                                                                  0 ---
                                                                                                                   R.GPEGAQGPR.G
                                                              15.0 1095 - 1105
                                                                                                  0 ---
                     948.5171
                                         948.5029
                                                                                                                   R.GPPGPVGPSGK.D
                                                          8.55 264 - 275 1 ---
1041.5637 1040.5564 1040.5475
```

```
1126.6241 1125.6168 1125.6183 -1.29 207 - 218 0 --- R.GFPGTPGLPGVK.G
1143.5592 1142.5519 1142.5720 -17.60 447 - 458 0 ---
                                                                                                     R.GFPGQDGLAGPK.G
1150.6226 1149.6153 1149.5931
                                                     19.4 1265 - 1273
                                                                                                     K.KNWWSSKSK.D
                                                      18.8 219 - 230 1 ---
16.6 735 - 749 0 ---
1227.6459 1226.6386 1226.6156
                                                                                                     K.GHRGYPGLDGAK.G
                                                                                                     K.GEVGPPGPAGTAGAR.G
1293.6760 1292.6687 1292.6473
                                                      15.7 1161 - 1171 1 ---
1349.6729 1348.6656 1348.6445
                                                                                                     R.EKGPDPLOYMR.A + Oxidation (M)
1423.7096 1422.7023 1422.6964
                                                      4.17 857 - 871
                                                                                                     K.DGPKGARGDSGPPGR.A
1503.7648 1502.7575 1502.7325 16.7 1047 - 1061 2 ---
1526.7924 1525.7851 1525.7711 9.19 1376 - 1387 2 ---
1551.7465 1550.7392 1550.7260 8.55 1020 - 1037 0 ---
                                                                                                     R.GDKGETGEAGERGLK.G
                                                                                                     K.WGKTMIEYRSOK.T
                                                                                                     R.GEAGAQGPMGPAGPAGAR.G
1553.7668 1552.7795 1552.7706 -7.13 1050 - 1064 2 --- 1625.7886 1624.7813 1624.7805 0.50 696 - 712 2 ---
                                                                                                     K.GETGEAGERGLKGHR.G
                                                                                                     K.GDRGDVGEKGPEGAPGK.D
1650.8429 1649.8356 1649.8710 -21.43
                                                                258 - 275
                                                                                                     R.GLPGERGRTGPAGAAGAR.G
1664.8490 1663.8417 1663.8026 23.5 306 - 323 1 ---
                                                                                                     K.GEAGPTGARGPEGAQGPR.G
1682.8409 1681.8336 1681.8020
                                                      18.8 699 - 716 2 ---
                                                                                                     R.GDVGEKGPEGAPGKDGGR.G
1710.8904 1709.8831 1709.8485
                                                      20.2 447 - 464 1 ---
                                                                                                     R.GFPGQDGLAGPKGAPGER.G

    1829.8527
    1828.8454
    1828.8205
    13.6
    122 - 140
    0 ---

    1845.8363
    1844.8290
    1844.8154
    7.38
    122 - 140
    0 ---

                                                                                                     K.AGGAQMGVMQGPMGPMGPR.G
                                                                                                     K.AGGAQMGVMQGPMGPMGPR.G + Oxidation (M)

    1861.8531
    1860.8458
    1860.8103
    19.1
    122
    140
    0
    ---

    1973.9971
    1972.9898
    1972.9425
    24.0
    1163
    -1180
    1
    ---

    2007.9500
    2006.9427
    2006.9341
    4.31
    1016
    - 1037
    1
    101

    2007.9532
    2006.9459
    2006.9341
    5.91
    1016
    - 1037
    1
    ---

                                                                                                     K.AGGAQMGVMQGPMGPMGPR.G + 2 Oxidation (M)
                                                                                                     K.GPDPLQYMRADEAAGNLR.Q
                                                                                                     K.QGDRGEAGAQGPMGPAGPAGAR.G
                                                                                                     K.QGDRGEAGAQGPMGPAGPAGAR.G

    2007.9532
    2006.9459
    2006.9341
    5.91
    1016 - 1037
    1
    ---

    2023.9482
    2022.9409
    2022.9290
    5.90
    1016 - 1037
    1
    ---

    2029.9972
    2028.9899
    2028.9726
    8.55
    51 - 71
    2
    ---

    2082.9822
    2081.9749
    2081.9549
    9.63
    1038 - 1058
    2
    ---

    2143.0237
    2142.0164
    2142.0276
    -5.24
    663 - 686
    0
    ---

    2283.1606
    2282.1533
    2282.1114
    18.4
    528 - 551
    2
    ---

    2400.0532
    2399.0459
    2399.0596
    -5.70
    1244 - 1264
    0
    ---

                                                                                                     K.OGDRGEAGAOGPMGPAGPAGAR.G + Oxidation (M)
                                                                                                     K.GPPGPOGPAGEOGPRGDRGDK.G
                                                                                                     R.GMPGPQGPRGDKGETGEAGER.G
                                                                                                     K.GAAGPAGPPGAOGPPGLOGMPGER.G + Oxidation (M)
                                                                                                     R.GOPGVMGFPGPKGANGEPGKAGEK.G + Oxidation (M)
                                                                                                     K.VFCNMETGETCVYPNPASVPK.K
2844.3398 2843.3325 2843.3951 -22.01 948 - 979 1 ---
3023.3674 3022.3601 3022.3992 -12.93 141 - 173 0 ---
                                                                                                     R.GPPGPVGPPGLTGPAGEPGREGSPGADGPPGR.D
                                                                                                     R.GPPGPAGAPGPOGFOGNPGEPGEPGVSGPMGPR.G + Oxidation (M)
3321.6216 3320.6143 3320.6763 -18.67 1059 - 1094 2 ---
3869.7393 3868.7320 3868.8056 -19.03 1277 - 1310 0 ---
                                                                                                     R.GLKGHRGFTGLOGLPGPPGPSGDOGASGPAGPSGPR.G
                                                                                                     K.HIWFGETINGGFHFSYGDDNLAPNTANVOMTFLR.L
No match to: 716.3353, 718.2895, 724.2175, 726.3070, 728.2833, 729.4336, 730.2399, 732.2518, 734.4341, 743.3130, 745.3617, 747.4360, 753.3469, 756.3524, 758.3462, 759.3632, 768.3517, 779.4633, 781.3725, 789.3640, 794.3674, 796.3701, 799.2854, 801.4280, 805.4417, 807.4076, 810.3293, 812.3207, 818.3782, 820.3700, 829.4508, 830.4513, 834.3805, 842.5101, 849.3834, 852.4368, 857.4457, 860.4262, 870.4462, 873.4370, 877.4166, 880.4280, 882.4470, 883.4816, 887.4295, 889.4857, 891.4872, 894.4923, 898.4610, 900.5174,
 905.4763, 907.4251, 912.5086, 914.4942, 920.4296, 922.4855, 928.4565, 929.4484, 933.4327, 936.4976, 938.5062, 944.4982, 946.4672, 950.5168, 957.5792, 961.5109, 965.5151, 967.4963, 972.5023, 974.4913, 976.5255, 978.5352, 981.5225, 983.6221, 986.5463, 988.4922, 993.5123, 995.4512, 998.5833, 1000.5594, 1006.5120, 1007.5640, 1021.5762, 1024.5542, 1031.5300, 1034.5703, 1037.5466, 1043.5297,
 1044.5375, 1045.5594, 1046.6058, 1054.5287, 1056.5575, 1057.6187, 1057.6200, 1068.5790, 1074.6162, 1076.6190, 1082.6056, 1105.5938, 1110.5851, 1113.5701, 1118.5687, 1120.6050, 1122.5892, 1123.6047, 1128.5618, 1130.5756, 1135.5951, 1137.5647, 1145.6373, 1148.6318,
 1149.6230, 1156.5652, 1157.5676, 1159.5890, 1160.5966, 1169.5873, 1177.6421, 1178.6371, 1180.6443, 1182.6539, 1184.6431, 1185.6815, 1193.6090, 1194.6001, 1209.6238, 1213.7180, 1216.7178, 1221.5953, 1229.6874, 1234.6899, 1238.2251, 1239.6622, 1254.6993, 1255.6351,
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 1353.6891, 1356.6255, 1358.6919, 1359.7013, 1361.7147, 1364.7118, 1365.6619, 1366.6965, 1372.6228, 1375.6699, 1382.6771, 1383.7347, 1390.7089, 1393.8007, 1397.7449, 1403.7434, 1410.7849, 1416.7737, 1420.7114, 1434.7847, 1436.7469, 1442.8257, 1445.7913, 1456.7555,
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 1747.9127, 1758.4807, 1758.8918, 1761.8734, 1765.8154, 1772.0012, 1774.9300, 1774.9319, 1779.9012, 1781.8585, 1783.8062, 1787.8407, 1809.0583, 1810.0460, 1812.9126, 1832.8584, 1833.8571, 1834.8650, 1836.8618, 1838.8677, 1847.8600, 1848.8938, 1850.9128, 1851.8932,
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2745.2256, 2746.2031, 2748.2295, 2755.2700, 2760.2590, 2763.1829, 2771.2400, 2778.1865, 2785.2969, 2786.2561, 2787.2524, 2790.2317, 2792.2166, 2800.3093, 2801.2932, 2803.2415, 2804.2429, 2807.2869, 2808.2227, 2812.2244, 2813.2373, 2817.2632, 2820.2441, 2824.2598,
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3630.5806, 3641.7090, 3651.7944, 3667.7266, 3683.6980, 3691.7681, 3707.7200, 3714.5493, 3715.6206, 3719.6914, 3720.7048, 3723.7041, 3735.7100, 3751.7539, 3830.8091, 3876.6707, 3885.6946
               Mass: 110451 Score: 45
                                                              Expect: 0.77 Matches: 39
 Uncharacterized protein OS=Bos taurus GN=COL6A2 PE=1 SV=2
 Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide
                   828.4435
                                    828.4453
                                                      -2.18 204 - 210
                                                                                                     K.LNEQGLR.D
                                                    4.14 188 - 194
                   829.4440
                                    829.4406
                                                                                                     R.AREEGIR.L
                                                                 747 - 753
                   859.4189
                                    859.4035
                                                                                                     R.DDDLNLR.A
                                    966.5108 -22.44 381 - 389 1 ---
                   966.4891
                                                                                                     K.GDPGRPGRR.G
                                                                 852 - 859
                   971.4950
                                    971.4825
                                                                                                     R.LGEONFHK.V
                                    997.5960 -20.05 195 - 203
                   997.5760
                                                                                                     R.LFAVPPNLK.L
                                                                 129 - 137
                 1023.5469 1023.5349
                                                                 876 - 884
                 1042.5224 1042.5043
                                                      17.4
                 1056.6114 1056.6080
                                                                 885 - 894
1057.6200 1056.6127 1056.6080
                                                      4.45
                                                                                                     R.VALLQFGGPR.E
                                                                 644 - 652
1074.6162 1073.6089 1073.5982
                                                      10.0
                                                                                                     K.NFVINVVNR.L
1076.6190 1075.6117 1075.6026
                                                                                                     R.VFAVVITDGR.H
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1145.6373 1144.6300 1144.6241 5.22 996 - 1006 0 --- K.ISLGDPAAVFR.E
1177.6421 1176.6348 1176.6363 -1.29 862 - 870 2 --- R.RFVEEVSRR.L
 1180.6443 1179.6370 1179.6360
                                                                             129 - 138
                                                                                                                       K.SLQSISSFRR.G
 1227.6459 1226.6386 1226.6520 -10.90 852 - 861 1 ---
1328.6799 1327.6726 1327.6520 15.5 211 - 221 0 ---
1333.7430 1332.7357 1332.7514 -11.77 731 - 742 1 ---
1365.6619 1364.6546 1364.6433 8.31 743 - 753 1 ---
1383.7347 1382.7274 1382.7531 -18.57 852 - 862 2 ---
                                                                                                                       R.DIANTPHELYR.N
 1514.7063 1513.6693 1513.6693 19.6 245 - 256 1 ---
1530.7058 1529.6985 1529.6787 13.0 1009 - 1021 0 ---
                                                                                                                       K.VMKHEAYGECYK.V
                                                                                                                       K.DYDSLAOPGFFDR.F
1555.7836 1554.7763 1554.8114 -22.57 327 - 343 2 --- K.DYDSLAQPGFFDR.F 1555.7836 1554.8147 1654.8074 1654.8210 -8.18 344 - 359 2 --- K.LGRIGPDGCKGNTGDR.G 1743.9005 1742.8932 1742.8992 -3.40 701 - 716 0 --- K.NLEWIAGGTWTPSALK.F 1774.9300 1773.9227 1773.8983 13.8 381 - 398 2 --- K.GDPGRPGRGPPGENGAK.G 1774.9319 1773.9246 1773.8983 14.9 381 - 398 2 --- K.GDPGRPGRGPPGENGAK.G 1788.8407 1786.8334 1786.8162 9.63 1007 - 1021 1 --- R.EDPYDSLAQPGFFDR.F
1787.8407 1786.8334 1786.8162 9.63 1007 - 1021 1 --- R.EKDYDSLAQFGFFDR.F
1809.0583 1808.0510 1808.0308 11.2 195 - 210 1 --- R.LFAVPPNIKINEGGLR.D
1810.0460 1809.0387 1809.0261 7.00 188 - 203 2 --- R.AREGIRLFAVPPNIK.L
1932.0068 1930.9995 1930.9973 1.13 474 - 493 2 --- K.GDRGLFGPRGPQGTVGEPGR.Q
1947.9314 1946.9241 1946.9082 8.15 441 - 461 2 --- K.GDRGLFGPRGPGGTVGEPGR.Q
2174.0508 2173.0435 2173.0222 9.82 775 - 792 0 --- K.HESENLYSIACDKPQQVR.N
2277.0642 2276.0569 2276.0894 -14.28 483 - 506 2 --- R.GPGGTVGEPGKQSSRGEDFGDAGPR.G
2392.1594 2391.1521 2391.1343 7.46 668 - 688 0 --- R.VGVVQYSHEGTFEAIQLDDER.I
2755.2700 2754.2627 2754.2266 13.1 581 - 607 0 --- R.GAPGPEGEPGPPGDPGLTECDVMTYVF
2771.2400 2770.2327 2770.2215 4.06 581 - 607 0 --- R.GAPGPEGEPGPPGDPGLTECDVMTYVF
2864.3188 2863.3115 2863.3421 -10.70 248 - 272 2 --- K.HEAYGECYKVSCLEIFGPPGFRGYR.G
3023.3674 3022.3601 3022.4268 -22.07 662 - 688 1 --- K.SETGTRVGVVQYSHEGTFEAIQLDDER
No match to: 716.3353, 718.2895, 724.2175, 726.3070, 728.2833, 729.4336, 730.2399, 732.2518,
                                                                                                                       R.GAPGPEGEPGPPGDPGLTECDVMTYVR.E
                                                                                                                       R.GAPGPEGEPGPPGDPGLTECDVMTYVR.E + Oxidation (M)
                                                                                                                       K.HEAYGECYKVSCLEIPGPPGPKGYR.G
                                                                                                                       K.SETGTRVGVVOYSHEGTFEAIOLDDER.I
 No match to: 716.3353, 718.2895, 724.2175, 726.3070, 728.2833, 729.4336, 730.2399, 732.2518, 734.4341, 743.3130, 745.3617,
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  3552.6614, 3553.6028, 3554.5630, 3558.6460, 3573.6545, 3589.6523, 3608.6155, 3624.6685, 3630.5806, 3641.7090, 3651.7944, 3667.7266,
 3683.6980, 3691.7681, 3707.7200, 3714.5493, 3715.6206, 3719.6914, 3720.7048, 3723.7041, 3735.7100, 3751.7539, 3830.8091, 3869.7393,
                                             Score: 45
                                                                         Expect: 0.78 Matches: 11
 Uncharacterized protein OS=Bos taurus GN=COL6A2 PE=4 SV=1
9.63 209 - 223 1 --- R.EKDYDSLAQPGFFDR.F
 1787.8407 1786.8334 1786.8162
 No match to: 716.3353, 718.2895, 724.2175, 726.3070, 728.2833, 729.4336, 730.2399, 732.2518, 734.4341, 743.3130, 745.3617,
 747.4360, 753.3469, 756.3524, 758.3462, 759.3632, 768.3517, 779.4633, 781.3725, 789.3640, 794.3674, 796.3701, 799.2854, 801.4280, 805.4417, 807.4076, 810.3293, 812.3207, 818.3782, 820.3700, 828.4415, 829.4508, 830.4513, 834.3805, 842.5101, 849.3834, 852.4368,
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3735.7100, 3751.7539, 3830.8091, 3869.7393, 3876.6707, 3885.6946
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032LI7 Mass: 30313 Score: 24
                                                                                                                  Expect: 86 Matches: 18
   Putative uncharacterized protein MGC133880 OS=Bos taurus GN=MGC133880 PE=2 SV=1

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss
        Ions
        Peptide

        805.4417
        804.4344
        804.4453
        -13.54
        266 - 272
        2 ---
        K.SKNKNS

        1021.5762
        1020.5689
        1020.5465
        22.0
        97 - 105
        1 ---
        K.KGSFRE

                                                                                                                                                                                        K.SKNKNSK.-
1021.5762 1020.5689 1020.5465 22.0 97 - 105 1 --- K.KGSFRPSR.E

1118.5687 1117.5614 1117.5476 12.4 57 - 67 1 --- R.GDSPRSSSLGR.A

1255.6351 1254.6278 1254.6105 13.8 240 - 249 1 --- K.TDLGRWHQK.N

1319.6770 1318.6697 1318.6517 13.7 202 - 213 0 --- R.SDLFQGAPQETK.S

1383.7347 1382.7274 1382.7055 15.9 239 - 249 2 --- R.KTDDLGRWHQK.N

1519.7705 1518.7632 1518.7804 -11.30 228 - 239 2 --- K.SVRDLEHWHGRK.T

1635.7964 1634.7891 1634.7756 8.29 250 - 263 1 --- K.NANNMNLQKALDEK.E + Oxidation (M)

1834.8650 1833.8577 1833.8870 -15.99 231 - 245 2 --- K.NANNMNLQKALDEK.E + Oxidation (M)

1938.0171 1937.0098 1937.0292 -9.98 214 - 230 2 --- K.SLMKASYTPEVIEKSV.D

2011.9381 2010.9308 2010.9355 -2.32 123 - 142 0 --- K.SLMKASYTPEVIEKSV.D

2277.0642 2276.0569 2276.0894 -14.25 123 - 144 1 --- K.EDPNAGAQGQSGSSIPNNIRH.F

2896.4324 2895.4251 2895.4688 -15.07 202 - 227 2 --- R.SNLFQGAPQETKSLMKASYTPEVIEK.S

2912.4265 2911.4192 2911.4637 -15.27 202 - 227 2 --- R.SNLFQGAPQETKSLMKASYTPEVIEK.S

2912.4265 2911.4192 2911.4637 -15.27 202 - 227 2 --- R.SNLFQGAPQETKSLMKASYTPEVIEK.S + Oxidation (M)

3505.6919 3504.6846 3504.6764 2.36 109 - 142 2 --- R.SNLFQGAPQETKSLMKASYTPEVIEK.S + Oxidation (M)

3573.6545 3572.6472 3572.6927 -12.73 1 - 31 2 --- MELGHRPGTTILTRAHPNNNKEGQODTDPWR.A + Oxidation

No match to: 716.3353, 718.2895, 724.2175, 726.3070, 728.2833, 729.4336, 730.2399, 732.2518, 734.4341, 743.313
  1021.5762 1020.5689 1020.5465 22.0
                                                                                                                                                                                   K.KGSFRPSSR.E
                                                                                                                                                                                        -. MELGHRPGTTTLTRAHPNNNKEGQQDTDPWR.A + Oxidation (M)
   337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337.6343 337
   741.4360, 753.3469, 756.3524, 758.3462, 759.3632, 768.3517, 779.4633, 781.3725, 789.3640, 794.3574, 795.3701, 799.2854, 801.4280, 807.4076, 810.3293, 812.3207, 818.3782, 820.3700, 828.4415, 829.4508, 830.4513, 834.3805, 842.5101, 849.3834, 852.4368, 857.4457, 860.4262, 868.4412, 870.4462, 873.4370, 877.4166, 880.4280, 882.4470, 883.4816, 887.4295, 889.4857, 891.4872, 894.4923, 898.4610, 900.5174, 905.4763, 907.4251, 912.5086, 914.4942, 920.4296, 922.4855, 928.4565, 929.4484, 933.4327, 936.4976, 938.5062, 944.4982, 946.4672, 949.5244, 950.5168, 957.5792, 961.5109, 965.5151, 967.4963, 972.5023, 974.4913, 976.5255, 978.5352, 981.5225, 983.6221, 986.5463, 988.4922, 993.5123, 995.4512, 998.5833, 1000.5594, 1006.5120, 1007.5640, 1024.5542, 1031.5300, 1034.5703, 1037.5466,
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   P46171
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                                                             Score: 23
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                       Mass: 22800
                                                             Score: 21
                                                                                                  Expect: 2.1e+002 Matches: 16
Thymocyte nuclear protein 1 OS=Bos taurus GN-THYN1 PE=2 SV=1

Observed Mr(expt) Mr(calc) ppm Start End Miss Ions
887.4295 886.4222 886.4331 -12.24 7 - 14 0 --- R.RPAGPDMK.G + Oxidation (M)
944.4982 943.4909 943.5087 -18.84 15 - 22 2 --- K.FSEEDLQAQPR.G + Oxidation (M)
1178.6371 1177.6298 1177.6026 23.1 156 - 164 1 --- R.RPAGPDMK.G + Oxidation (M)
1178.6371 1177.6298 1177.6026 23.1 156 - 164 1 --- K.WSMRLSVQR.L + Oxidation (M)
1254.6993 1253.6920 1253.6775 11.6 4 - 14 2 --- R.ARRPAGPDMK.G
1303.6489 1302.6416 1302.6568 -11.65 73 - 83 0 --- K.FSIEDLQAQPR.Q
1555.7836 1554.7763 1554.7837 -4.76 93 - 104 2 --- R.NYQARNFLRAMR.L + Oxidation (M)
1761.8734 1760.8661 1760.8628 1.90 151 - 164 2 --- K.PDYRWSMRLSVQR.L + Oxidation (M)
2015.9694 2014.9621 2014.9194 21.2 41 - 58 0 --- K.FDYRWSMRLSVQR.L + Oxidation (M)
2285.1355 2284.1282 2284.0920 15.9 84 - 101 2 --- R.QTTCWDGVRNYQARNFLR.A
2576.1792 2575.1719 2575.1848 -5.02 98 - 117 2 --- R.NFLRAMR.LDEEAFFYHSNCR.E
2844.3398 2843.3325 2843.3402 -2.70 127 - 150 2 --- K.FSIEDLQAQPRQTTCWDGVRNYQARN.S
2910.3325 2909.3252 2909.3952 -24.06 102 - 126 2 --- R.AMRLDEEAFFYHSNCR.E
2910.3325 2909.3252 2909.3952 -24.06 102 - 126 2 --- K.FSIEDLQAQPRQTTCWDGVRNYQARN.N
3071.3933 3070.3860 3070.4441 -18.90 41 - 67 2 --- K.FSIEDLQAQPRQTTCWDGVRNYQARN.N
3087.3970 3086.3897 3086.3859 11.9 130 - 155 2 --- K.EAYPDHTQFEKNNPYYDASSKEDNPK.W
No match to: 716.3353, 718.2895, 724.2175, 726.3070, 728.2833, 729.4336, 730.2399, 732.2518, 734.4341, 743.3136
   Thymocyte nuclear protein 1 OS=Bos taurus GN=THYN1 PE=2 SV=1
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Mass: 18086
                                       Score: 20
                                                               Expect: 2.4e+002 Matches: 10
Peptidyl-prolyl cis-trans isomerase A OS=Bos taurus GN=PPIA PE=1 SV=2
 No match to: 716.3353, 718.2895, 724.2175, 726.3070, 728.2833, 729.4336, 730.2399, 732.2518, 734.4341, 743.3130, 745.3617,
 747.4360, 753.3469, 756.3524, 758.3462, 759.3632, 768.3517, 779.4633, 781.3725, 789.3640, 794.3674, 796.3701, 799.2854, 801.4280, 805.4417, 807.4076, 810.3293, 812.3207, 818.3782, 820.3700, 828.4415, 829.4508, 830.4513, 834.3805, 842.5101, 849.3834, 852.4368, 857.4457, 860.4262, 868.4412, 870.4462, 873.4370, 877.4166, 880.4280, 882.4470, 883.4816, 887.4295, 889.4857, 891.4872, 894.4923,
 898.4610, 900.5174, 905.4763, 907.4251, 912.5086, 914.4942, 920.4296, 922.4855, 928.4565, 929.4484, 933.4327, 936.4976, 938.5062, 944.4982, 946.4672, 949.5244, 950.5168, 957.5792, 961.5109, 965.5151, 967.4963, 972.5023, 974.4913, 976.5255, 978.5352, 981.5225,
 983.6221, 986.5463, 988.4922, 993.5123, 995.4512, 998.5833, 1000.5594, 1006.5120, 1007.5640, 1021.5762, 1024.5542, 1031.5303, 1034.5703, 1037.5466, 1041.5637, 1043.5297, 1044.5375, 1045.5594, 1046.6058, 1054.5287, 1056.5575, 1057.6187, 1057.6200, 1068.5790, 1074.6162, 1076.6190, 1082.6056, 1105.5938, 1110.5851, 1113.5701, 1120.6050, 1122.5892, 1123.6047, 1126.6241, 1128.5618, 1130.5756,
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 1227.6459, 1229.6874, 1234.6899, 1238.2251, 1239.6622, 1254.6993, 1255.6351, 1264.7139, 1265.1680, 1265.7196, 1269.6532, 1276.6729, 1278.6892, 1281.6375, 1285.6674, 1289.7029, 1293.6760, 1301.6362, 1303.6489, 1304.6685, 1306.6946, 1308.6797, 1314.7227, 1319.6770,
 1320.6364, 1323.6815, 1326.6937, 1328.6799, 1333.7430, 1336.7301, 1337.6429, 1349.6729, 1351.6969, 1353.6891, 1356.6255, 1358.6919, 1359.7013, 1361.7147, 1364.7118, 1365.6619, 1366.6965, 1372.6228, 1375.6693, 1382.6771, 1383.7347, 1390.7089, 1393.8007, 1397.7449,
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 1657.8483, 1658.8953, 1660.8379, 1662.8666, 1664.8490, 1666.7892, 1679.8091, 1680.8357, 1682.8409, 1696.8464, 1698.8180, 1701.8243, 1702.8386, 1707.8938, 1710.8904, 1714.7905, 1716.8219, 1717.9052, 1718.9094, 1721.8976, 1722.9003, 1724.9030, 1728.8840, 1730.8910,
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 1779.9012, 1781.8585, 1783.8062, 1787.8407, 1809.0583, 1810.0460, 1812.9126, 1829.8527, 1832.8584, 1833.8571, 1834.8650, 1836.8618, 1838.8677, 1845.8363, 1847.8600, 1848.8938, 1850.9128, 1851.8932, 1861.8531, 1862.9542, 1864.9258, 1880.9026, 1883.7704, 1887.8878,
 1897.7863, 1902.9769, 1904.9276, 1908.8986, 1920.9131, 1923.9126, 1928.0443, 1932.0068, 1936.9510, 1938.0171, 1947.9314, 1958.9393, 1959.9655, 1960.9813, 1961.9463, 1967.1549, 1969.9951, 1973.9971, 1976.9708, 1990.4971, 1990.9373, 1991.4857, 1997.8479, 2001.8607,
 2003.8768, 2004.8850, 2007.9500, 2007.9532, 2011.9381, 2012.8951, 2015.9694, 2017.9860, 2018.9740, 2020.1631, 2023.9482, 2026.9529, 2027.5033, 2029.9972, 2043.5356, 2044.9940, 2055.0205, 2057.0154, 2060.9878, 2066.9939, 2068.9661, 2082.9822, 2086.0254, 2088.1033,
  2097.0371, 2098.4941, 2102.9954, 2109.0095, 2112.9932, 2114.9707, 2122.9578, 2128.0444, 2130.9980, 2132.0200, 2136.9250, 2140.0063,
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 2478.1377, 2501.2207, 2523.2014, 2526.2585, 2540.2451, 2542.2578, 2545.2258, 2550.2373, 2561.6841, 2562.1826, 2562.6890, 2573.2495,
 2576.1792, 2646.9758, 2659.2144, 2661.1409, 2662.0120, 2671.1924, 2681.2705, 2682.2888, 2685.3098, 2689.3059, 2695.1064, 2696.2695, 2699.2324, 2703.2529, 2705.2944, 2712.2937, 2717.2903, 2720.2839, 2721.2937, 2726.2935, 2727.2986, 2728.3079, 2739.2837, 2743.2729,
 2744.2207, 2745.2256, 2746.2031, 2748.2295, 2755.2700, 2760.2590, 2763.1829, 2771.2400, 2778.1865, 2785.2969, 2786.2561, 2787.2524, 2790.2317, 2792.2166, 2800.3093, 2801.2932, 2803.2415, 2804.2429, 2808.2227, 2812.2244, 2813.2373, 2817.2632, 2820.2441, 2824.2598,
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 3624.6685, 3630.5806, 3641.7090, 3651.7944, 3667.7266, 3683.6980, 3691.7681, 3707.7200, 3714.5493, 3715.6206, 3719.6914, 3720.7048, 3723.7041, 3735.7100, 3751.7539, 3830.8091, 3869.7393, 3876.6707, 3885.6946
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Mass: 23940
                                                                          Expect: 2.4e+002 Matches: 15
 Q29RM9
                                                Score: 20
Regulator of G-protein signaling 4 OS=Bos taurus GN=RGS4 PE=2 SV=1
 805.4417, 807.4076, 810.3293, 812.3207, 818.3782, 820.3700, 828.4415, 829.4508, 830.4513, 834.3805, 842.5101, 849.3834, 852.4368, 857.4457, 860.4262, 868.4412, 870.4462, 873.4370, 877.4166, 880.4280, 882.4470, 883.4816, 887.4295, 889.4857, 891.4872, 898.4610, 900.5174, 905.4763, 907.4251, 912.5086, 914.4942, 920.4296, 922.4855, 928.4565, 929.4484, 933.4327, 936.4976, 938.5062, 944.4982, 946.4672, 949.5244, 950.5168, 957.5792, 961.5109, 965.5151, 967.4963, 974.4913, 976.5255, 978.5352, 981.5225, 983.6221, 986.5463, 993.5123, 995.4512, 998.5833, 1000.5594, 1006.5120, 1007.5640, 1021.5762, 1024.5542, 1031.5300, 1034.5703, 1037.5466, 1041.5637, 1043.5297, 1044.5375, 1045.5594, 1046.6058, 1054.5287, 1056.5575, 1057.6187, 1057.6200, 1068.5790, 1074.6162, 1076.6190, 1082.6056, 1105.5938, 1110.5851, 1113.5701, 1118.5687, 1120.6050, 1122.5892, 1123.6047, 1126.6241, 1128.5618, 1130.5756, 1135.5951, 1137.5647, 1143.5592, 1148.6318, 1149.6230, 1150.6226, 1156.5652, 1157.5676, 1159.5890, 1160.5966, 1169.5873, 1177.6421, 1178.6371, 1180.6443, 1182.6618, 1139.6013, 1139.6011, 1200.6239, 1213.7190, 1213.7196, 1213.7192, 1221.5953, 1227.6489, 1222.6874, 1234.6890
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  1289.7029, 1293.6760, 1301.6362, 1303.6489, 1304.6685, 1306.6946, 1308.6797, 1314.7227, 1319.6770, 1320.6364, 1323.6815, 1326.6937, 1328.6799, 1333.7430, 1336.7301, 1337.6429, 1349.6729, 1351.6969, 1353.6891, 1356.6255, 1358.6919, 1359.7013, 1361.7147, 1364.7118,
   1365.6619, 1366.6965, 1372.6228, 1375.6693, 1382.6771, 1383.7347, 1390.7089, 1393.8007, 1397.7449, 1403.7434, 1410.7849, 1416.7737,
  1420.7114, 1423.7096, 1434.7847, 1436.7469, 1442.8257, 1445.7913, 1456.7555, 1457.7440, 1467.7560, 1470.7466, 1475.7615, 1479.8038, 1483.7579, 1484.7480, 1487.7660, 1488.7366, 1493.7556, 1500.7393, 1500.7400, 1503.7648, 1504.7708, 1514.7063, 1516.7281, 1519.7705,
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   1975.9755, 1976.9708, 1990.4971, 1990.9373, 1991.4857, 1997.8479, 2001.8607, 2003.8768, 2004.8850, 2007.9500, 2007.9532, 2011.9381,
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  2114.9707, 2122.9578, 2128.0444, 2130.9980, 2132.0200, 2136.9250, 2140.0063, 2143.0237, 2144.0559, 2145.0781, 2148.0483, 2153.0049, 2153.9973, 2178.0483, 2188.0610, 2191.0464, 2192.0427, 2199.1150, 2205.0615, 2211.1067, 2223.1533, 2225.1382, 2226.1472, 2239.1646,
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  2721.2937, 2726.2935, 2727.2986, 2728.3079, 2739.2837, 2743.2729, 2744.2207, 2745.2256, 2746.2031, 2748.2295, 2755.2700, 2760.2590, 2763.1829, 2771.2400, 2778.1865, 2785.2969, 2786.2561, 2790.2317, 2792.2166, 2800.3093, 2801.2932, 2803.2415, 2804.2429, 2807.2869,
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   3042.3542, 3070.3745, 3071.3933, 3086.3984, 3087.3970, 3093.4294, 3101.3831, 3103.4006, 3104.4041, 3110.4143, 3127.4749, 3141.4126,
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  3552.6614, 3553.6028, 3554.5630, 3558.6460, 3573.6545, 3589.6523, 3608.6155, 3624.6685, 3630.5806, 3641.7090, 3651.7944, 3667.7266, 3683.6980, 3691.7681, 3707.7200, 3714.5493, 3715.6206, 3719.6914, 3720.7048, 3723.7041, 3735.7100, 3751.7539, 3830.8091, 3869.7393,
  3876.6707, 3885.6946
                Mass: 8166
                                              Score: 20
                                                                        Expect: 2.5e+002 Matches: 7
  Guanine nucleotide-binding protein G(I)/G(S)/G(O) subunit gamma-12 OS=Bos taurus GN=GNG12 PE=1 SV=2
 857.4457, 860.4262, 868.4412, 870.4462, 873.4370, 877.4166, 880.4280, 882.4470, 883.4816, 887.4295, 889.4857, 891.4872, 894.4923, 898.4610, 905.4763, 907.4251, 912.5086, 914.4942, 920.4296, 922.4855, 928.4565, 929.4484, 933.4327, 936.4976, 938.5062, 944.4982,
  946.4672, 949.5244, 950.5168, 957.5792, 961.5109, 965.5151, 967.4963, 972.5023, 974.4913, 976.5255, 981.5225, 983.6221, 986.5463, 988.4922, 993.5123, 995.4512, 998.5833, 1000.5594, 1006.5120, 1007.5640, 1021.5762, 1024.5542, 1031.5300, 1034.5703, 1037.5466, 1041.5637, 1044.5297, 1044.5375, 1045.5594, 1046.6058, 1054.5287, 1056.5575, 1057.6187, 1057.6200, 1068.5790, 1074.6162, 1076.6190, 1082.6056, 1105.5938, 1110.5851, 1113.5701, 1118.5687, 1120.6050, 1122.5892, 1123.6047, 1126.6241, 1128.5618, 1130.5756, 1135.5951,
  1137.5647, 1143.5592, 1145.6373, 1148.6318, 1149.6230, 1150.6226, 1156.5652, 1157.5676, 1159.5890, 1160.5966, 1169.5873, 1177.6421
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P46170 Mass: 4445
                                      Score: 20
                                                              Expect: 2.6e+002 Matches: 5
 Beta-defensin 12 OS=Bos taurus GN=DEFR12 PE=1 SV=1
No match to: 716.3353, 718.2895, 724.2175, 726.3070, 728.2833, 729.4336, 730.2399, 732.2518, 734.4341, 743.3130, 745.3617, 747.4360, 753.3469, 756.3524, 758.3462, 768.3517, 779.4633, 781.3725, 789.3640, 794.3674, 796.3701, 799.2854, 801.4280, 805.4417, 807.4076, 810.3293, 812.3207, 818.3782, 820.3700, 828.4415, 829.4508, 830.4513, 834.3805, 842.5101, 849.3834, 852.4368, 857.4457, 860.4262, 868.4412, 870.4462, 873.4370, 877.4166, 880.4280, 882.4470, 883.4816, 887.4295, 889.4857, 891.4872, 894.4923, 898.4610,
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                                        Score: 19
                                                               Expect: 2.8e+002 Matches: 20
              Mass: 49390
 Zinc finger protein 2 OS=Bos taurus GN=ZNF2 PE=2 SV=1
                                    Mr(calc) ppm Start End Miss Ions Peptide
  Observed Mr (expt)
                                                                                                     R.RYAKQGID.-
                   949.5096
                                     949.4981
                                                                418 - 425 2 ---
                                                        12.1
                   960.5037
                                     960.5253 -22.58
961.5109 960.5037 960.5253 -22.58 303 - 310 0 --- R.HQLIHTGR.K

1056.5575 1055.5502 1055.5764 -24.77 250 - 258 0 --- R.HQLIHTGR.K

1110.5851 1109.5778 1109.6054 -24.83 410 - 418 1 --- K.SSVIQHQRR.Y

1113.5701 1112.5628 1112.5614 1.24 321 - 330 0 --- K.AFYGVSSLNR.H

1126.6241 1125.6168 1125.5938 20.5 382 - 389 2 --- R.CRLTRHQR.V

1130.5756 1129.5683 1129.5741 -5.08 331 - 340 1 --- R.HQKAHAGEPR.Y

1658.8953 1657.8880 1657.9012 -7.97 405 - 418 2 --- K.VFSSKSSVIQHQRR.Y
                                                                  259 - 274 2 --- K.CSECGKAFFDRSSLTR.H
321 - 340 2 --- K.AFYGVSSLNRHQKAHAGEPR.Y
1920.9131 1919.9058 1919.8618
                                                     22.9
 2225.1382 2224.1309 2224.1250
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2239.1646 2238.1573 2238.1718 -6.47 30 - 47 2 --- R.LVPTQRDLYKEVMLENYK.S
2255.1484 2254.1411 2254.1667 -11.35 30 - 47 2 --- R.LVPTQRDLYKEVMLENYK.S + Oxidation (M)
2450.2451 2449.2378 2449.2383 -0.20 139 - 159 2 --- K.ESPTVEACKKPPSLEESLRIR.A
2526.2585 2525.2512 2525.2380 5.24 384 - 404 2 --- R.LTRHQRVHTGEKPFECSVCGK.V
2685.3098 2684.3025 2684.3690 -24.78 134 - 157 2 --- R.LGTEKESPTVEACKKPPSLEESLR.H
2745.2256 2744.2183 2744.2507 -11.80 270 - 292 2 --- R.SSLTRHQRIHTGESPYECNQCGK.A
2911.3594 2910.3521 2910.3752 -7.94 278 -302 2 --- R.ITHCESPYECNQCGKARFSQKSILTR.H
3280.5635 3279.5562 3279.5619 -1.73 2 - 29 2 --- M.AAVSPTRCQDPVTFEDVAVVFTDEEWRR.L
3321.6216 3320.6143 3320.5931 6.39 303 - 330 2 --- R.HQLHHTGRKPYECNECGKAFYGVSSLNR.H
3427.6099 3426.6026 3426.5973 1.55 1 - 29 2 --- M.AAVSPTRCQDPVTFEDVAVVFTDEEWRR.L + OX.
                                                                                                                                                   -.MAAVSPTRCODPVTFEDVAVVFTDEEWRR.L + Oxidation (M)
  No match to: 716.3353, 718.2895, 724.2175, 726.3070, 728.2833, 729.4336, 730.2399, 732.2518, 734.4341, 743.3130, 745.3617, 747.4360, 753.3469, 756.3524, 758.3462, 759.3632, 768.3517, 779.4633, 781.3725, 789.3640, 794.3674, 796.3701, 799.2854, 801.4280, 805.4417, 807.4076, 810.3293, 812.3207, 818.3782, 820.3700, 828.4415, 829.4508, 830.4513, 834.3805, 842.5101, 849.3834, 852.4368,
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  3589.6523, 3608.6155, 3624.6685, 3630.5806, 3641.7090, 3651.7944, 3667.7266, 3683.6980, 3691.7681, 3707.7200, 3714.5493, 3715.6206, 3719.6914, 3720.7048, 3723.7041, 3735.7100, 3751.7539, 3830.8091, 3869.7393, 3876.6707, 3885.6946
                                                        Score: 19
                                                                                             Expect: 2.8e+002 Matches: 31
  <u>A7Z060</u> Mass: 81637
  RNF219 protein OS=Bos taurus GN=RNF219 PE=2 SV=1
                            Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide
   Observed
                             806.4003
                                                       806.3923 9.99 653 - 658 0 --- R.LFEDQR.F
943.5087 -18.84 202 - 209 1 --- R.LKAEVDNR.S
943.4982 943.4909 943.5087 -18.84 202 - 209 1 --- R.IKAEVDNR.S

967.4963 966.4891 966.4658 24.1 166 - 173 0 --- R.TANEIYEK.V

1143.5592 1142.5519 1142.5680 -14.05 204 - 213 1 --- K.AEVDNRSPQK.F

1314.7227 1313.7154 1313.7303 -11.30 574 - 584 1 --- K.LEERTKPNI.SK.G

1361.7147 1360.7074 1360.7133 -4.29 490 - 501 1 --- K.LSEKPGSCLSKR.L

1366.6965 1365.6892 1365.6823 5.08 502 - 512 1 --- R.LNSLRSFEMNR.T

1382.6771 1381.6698 1381.6772 -5.34 502 - 512 1 --- R.LNSLRSFEMNR.T + Oxidation (M)
1382.6771 1381.6698 1381.6772 -5.34 502 -512 1 --- R.LNSLRSFEMNR.T + Oxidation (M)
1456.7555 1455.7482 1455.7793 -21.38 198 - 209 2 --- R.ENLRLKAEVDNR.S
1503.7648 1502.7575 1502.7579 -0.96 204 - 216 2 --- K.AEVDNRSPQKFGR.F
1522.7722 1521.7649 1521.7834 -12.13 501 - 512 2 --- K.RLNSLRSFEMNR.T
1851.8932 1850.8859 1850.8833 1.44 544 - 560 1 --- K.SPCNNGFKSLDLDGLSK.S
1880.9026 1879.8953 1879.8846 5.69 327 - 341 2 --- K.TEPNCSKNQDLYQKR.V
1958.9393 1957.9320 1957.9415 -4.84 67 - 84 0 --- K.EIIGGTSESEPMLSHTVR.K + Oxidation (M)
2003.8768 2002.8695 2002.8587 5.40 418 - 433 1 --- R.KLMPDEFCDSPNVCNK.D
2136.9250 2135.9177 2135.9603 -19.92 342 - 359 0 --- R.VETMLTVTDTSMDTYLER.E + 2 Oxidation (M)
2175.0435 2174.0362 2174.0365 -9.32 92 - 108 1 --- R.LEILHKEYFDETDCLOK.E
 2175.0435 2174.0362 2174.0565 -9.32 92 - 108 1 --- R.LELLHKEYEDEIDCLQK.E
2277.0642 2276.0569 2276.0665 -4.19 341 - 359 1 --- K.RVETMLTVTDTSMDTYLER.E + Oxidation (M)
3143.5066 3142.4993 3142.4964 0.92 666 - 692 2 --- K.MSSEMPGLHTHLQSPWSTSFVPEKRNK.N + 2 Oxidation (M) 3521.6392 3520.6319 3520.5643 19.2 529 - 560 2 --- K.ISELDSMMSESDNSKSPCNNGFKSLDLDGLSK.S + Oxidation (M)
 3651.7944 3650.7871 3650.7650 6.06 659 - 690 2 --- R.FGSSLFKMSSEMPGLHTHLQSPWSTSFVPEKR.N + Oxidation (M)
 3667.7266 3666.7193 3666.7599 -11.07 659 - 690 2 --- R.FGSSLFKMSSEMPGLHTHLOSPWSTSFVPEKR.N + 2 Oxidation (M)
  3720.7048 3719.6975 3719.7658 -18.36 373 - 405 1 --- K.DEELYDLPASCAPLSLSCLQLNTPDNRESSVVK.A
 3869.7393 3868.7320 3868.7416 -2.48
                                                                                                 341 - 372
                                                                                                                                                   K.RVETMLTVTDTSMDTYLEREWGNKPSDCMPYK.D + Oxidation (M)
  3885.6946 3884.6873 3884.7365 -12.67 341 - 372 2 ---
                                                                                                                                                    K.RVETMLTVTDTSMDTYLEREWGNKPSDCMPYK.D + 2 Oxidation (M)
  No match to: 716.3353, 718.2895, 724.2175, 726.3070, 728.2833, 729.4336, 730.2399, 732.2518, 734.4341, 743.3130, 745.3617, 747.4360, 753.3469, 756.3524, 758.3462, 759.3632, 768.3517, 779.4633, 781.3725, 789.3640, 794.3674, 796.3701, 799.2854, 801.4280,
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993.5123, 995.4512, 998.5833, 1000.5594, 1006.5120, 1007.5640, 1021.5762, 1024.5542, 1031.5300, 1034.5703, 1037.5466, 1041.5637, 1043.5297, 1044.5375, 1045.5594, 1046.6058, 1054.5287, 1056.5575, 1057.6187, 1057.6200, 1068.5790, 1074.6162, 1076.6190, 1082.6056, 1105.5938, 1110.5851, 1113.5701, 1118.5687, 1120.6050, 1122.5892, 1123.6047, 1126.6241, 1128.5618, 1130.5756, 1135.5951, 1137.5647,
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                                                           Expect: 2.9e+002 Matches: 9
Tubulin-specific chaperone A OS=Bos taurus GN=TBCA PE=1 SV=3
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P48427 Mass: 12756 Score: 19
   Observed Mr (expt) Mr (calc) ppm Start End Miss Ions Peptide
| No. 
  No match to: 716.3353, 718.2895, 724.2175, 726.3070, 728.2833, 729.4336, 730.2399, 732.2518, 734.4341, 743.3130, 745.3617,
  747.4360, 753.3469, 756.3524, 758.3462, 759.3632, 768.3517, 779.4633, 781.3725, 789.3640, 794.3674, 796.3701, 799.2854, 801.4280, 805.4417, 807.4076, 810.3293, 812.3207, 818.3782, 820.3700, 828.4415, 829.4508, 830.4513, 834.3805, 842.5101, 849.3834, 852.4368,
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  1328.6799, 1333.7430, 1336.7301, 1337.6429, 1349.6729, 1351.6969, 1353.6891, 1356.6255, 1358.6919, 1361.7147, 1364.7118, 1365.6619, 1366.6965, 1372.6228, 1375.6693, 1382.6771, 1383.7347, 1390.7089, 1393.8007, 1397.7449, 1403.7434, 1410.7849, 1416.7737, 1420.7114,
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   1526.7924, 1528.7079, 1530.7058, 1536.7252, 1537.7859, 1540.8043, 1543.7938, 1550.7543, 1551.7465, 1553.7668, 1555.7836, 1556.8011,
  1562.8008, 1568.7620, 1572.7245, 1578.8058, 1580.8580, 1580.8600, 1584.8486, 1587.7675, 1608.8051, 1616.8165, 1621.7870, 1625.7886, 1628.7313, 1632.8120, 1635.7964, 1637.7974, 1642.7417, 1647.8439, 1650.8429, 1651.8369, 1655.8147, 1657.8483, 1658.8953, 1660.8379,
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             3720.7048, 3723.7041, 3735.7100, 3751.7539, 3830.8091, 3869.7393, 3876.6707, 3885.6946
                              Mass: 12035
                                                            Score: 19
                                                                                         Expect: 2.9e+002 Matches: 8
             Pterin-4-alpha-carbinolamine dehydratase OS=Bos taurus GN=PCBD1 PE=3 SV=2

        Observed
        Mr(expt)
        Mr(calc)
        ppm
        Start
        End Miss
        Ions
        Peptide

        1068.5790
        1067.5717
        1067.5472
        23.0
        5 - 13
        1 ---
        K.AHRLS.

          1068.5790 1067.5717 1067.5472 23.0 5 - 13 1 --- K.AHRLSAEER.D
1130.5756 1129.5683 1129.5516 14.8 22 - 31 0 --- R.AVGWNELEGR.D
1584.8486 1583.8413 1583.8130 17.9 46 - 59 1 --- R.AVGWNELEGR.D
1698.8180 1697.8107 1697.7950 9.24 60 - 72 0 --- K.LDHPEWFNVYNK.V
1739.8165 1738.8092 1738.8448 -20.43 89 - 104 0 --- R.DVNLASFIEQVAVSMT. - + Oxidation (M)
1812.9126 1811.9053 1811.9107 -2.99 32 - 45 2 --- R.DAIFKQFHFKDFNR.A
2438.2283 2437.2210 2437.2179 1.30 53 - 72 1 --- R.VALQAEKLDHPEWFNVYNK.V

No match to: 716.3353, 718.2895, 724.2175, 726.3070, 728.2833, 729.4336, 730.2399, 732.2518, 734.4341, 743.3130, 745.3617,
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                                                                                  23.0 5 - 13 1 --- K.AHRLSAEER.D
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17. F1MK70 Mass: 59648
                                                           Score: 19
                                                                                          Expect: 3e+002 Matches: 26
          Uncharacterized protein OS=Bos taurus GN=SPATS2 PE=4 SV=2
             Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide
            3093.4294 3092.4221 3092.4772 -17.81 420 - 449 2 --- K.NSAPGETPATTANSGGRSYQPHREALPGNR.R
                                                                                                 47 - 79
            3751.7539 3750.7466 3750.8233 -20.44
                                                                                                                                          K.SNNEIILVLQHFDNCVDKTVQAFMEGSASEVLK.E + Oxidation (M)
            No match to: 716.3353, 718.2895, 724.2175, 726.3070, 728.2833, 729.4336, 730.2399, 732.2518, 734.4341, 743.3130, 745.3617, 747.4360, 753.3469, 756.3524, 758.3462, 759.3632, 768.3517, 779.4633, 781.3725, 789.3640, 794.3674, 796.3701, 799.2854, 801.4280,
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805.4417, 810.3293, 812.3207, 818.3782, 820.3700, 828.4415, 829.4508, 830.4513, 834.3805, 842.5101, 849.3834, 852.4368, 857.4457, 860.4262, 868.4412, 870.4462, 873.4370, 877.4166, 880.4280, 882.4470, 883.4816, 887.4295, 889.4857, 891.4872, 894.4923, 898.4610,

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900.5174, 905.4763, 907.4251, 914.4942, 920.4296, 922.4855, 928.4565, 929.4484, 933.4327, 936.4976, 938.5062, 944.4982, 949.5244, 950.5168, 957.5792, 961.5109, 965.5151, 967.4963, 972.5023, 974.4913, 976.5255, 978.5352, 981.5225, 983.6221, 986.5463, 988.4922,
  993.5123, 995.4512, 998.5833, 1000.5594, 1006.5120, 1007.5640, 1021.5762, 1024.5542, 1031.5300, 1034.5703, 1037.5466, 1041.5637, 1043.5297, 1044.5375, 1045.5594, 1046.6058, 1054.5287, 1057.66187, 1057.6200, 1068.5790, 1082.6056, 1105.5938, 1110.5851, 1113.5701, 1120.6050, 1122.5892, 1123.6047, 1126.6241, 1128.5618, 1130.5756, 1135.5951, 1137.5647, 1143.5592, 1145.6373, 1148.6318,
  1149.6230, 1150.6226, 1156.5652, 1157.5676, 1159.5890, 1160.5966, 1169.5873, 1177.6421, 1178.6371, 1180.6443, 1182.6539, 1184.6431, 1185.6815, 1194.6001, 1209.6238, 1213.7180, 1216.7178, 1221.5953, 1227.6459, 1229.6874, 1234.6899, 1238.2251, 1239.6622, 1254.6993,
  1255.6351, 1264.7139, 1265.1680, 1265.7196, 1269.6532, 1276.6729, 1278.6892, 1281.6375, 1285.6674, 1289.7029, 1293.6760, 1301.6362,
  1303.6489, 1304.6685, 1306.6946, 1308.6797, 1314.7227, 1319.6770, 1320.6364, 1323.6815, 1326.6937, 1333.7430, 1336.7301, 1337.6429, 1349.6729, 1351.6969, 1353.6891, 1356.6255, 1358.6919, 1359.7013, 1364.7118, 1366.6965, 1372.6228, 1375.6693, 1382.6771, 1383.7347,
  1390.7089, 1393.8007, 1397.7449, 1403.7434, 1410.7849, 1416.7737, 1420.7114, 1423.7096, 1434.7847, 1436.7469, 1442.8257, 1445.7913, 1457.7440, 1467.7560, 1470.7466, 1475.7615, 1479.8038, 1483.7579, 1484.7480, 1487.7660, 1488.7366, 1493.7556, 1500.7393, 1500.7400,
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   1584.8486, 1608.8051, 1616.8165, 1621.7870, 1625.7886, 1632.8120, 1635.7964, 1637.7974, 1642.7417, 1647.8439, 1650.8429,
  1655.8147, 1657.8483, 1658.8953, 1662.8666, 1664.8490, 1666.7892, 1679.8091, 1696.8464, 1698.8180, 1701.8243, 1702.8386, 1707.8938,
   1710.8904, 1714.7905, 1716.8219, 1717.9052, 1718.9094, 1721.8976, 1722.9003, 1724.9030, 1728.8840, 1730.8910, 1734.1617, 1738.8267,
  1739.8165, 1741.8934, 1743.9005, 1747.9127, 1758.4807, 1758.8918, 1761.8734, 1765.8154, 1772.0012, 1774.9300, 1774.9319, 1779.9012
   1781.8585, 1783.8062, 1787.8407, 1809.0583, 1810.0460, 1812.9126, 1829.8527, 1832.8584, 1833.8571, 1834.8650, 1836.8618, 1838.8677,
  1845.8363, 1847.8600, 1848.8938, 1850.9128, 1851.8932, 1861.8531, 1862.9542, 1864.9258, 1880.9026, 1883.7704, 1887.8878, 1897.7863, 1902.9769, 1904.9276, 1908.8986, 1920.9131, 1923.9126, 1928.0443, 1932.0068, 1936.9510, 1938.0171, 1947.9314, 1958.9393, 1959.9655,
  1960.9813, 1961.9463, 1967.1549, 1973.9971, 1975.9755, 1976.9708, 1990.4971, 1990.9373, 1991.4857, 1997.8479, 2001.8607, 2003.8768, 2004.8850, 2007.9500, 2007.9532, 2011.9381, 2012.8951, 2015.9694, 2017.9860, 2018.9740, 2020.1631, 2023.9482, 2026.9529, 2027.5033,
   2029.9972, 2043.5356, 2044.9940, 2055.0205, 2057.0154, 2060.9878, 2066.9939, 2068.9661, 2082.9822, 2086.0254, 2088.1033, 2097.0371,
  2098.4941, 2102.9954, 2109.0095, 2112.9932, 2114.9707, 2122.9578, 2128.0444, 2130.9980, 2132.0200, 2136.9250, 2140.0063, 2143.0237, 2144.0559, 2145.0781, 2148.0483, 2153.0049, 2153.9973, 2174.0508, 2175.0435, 2178.0483, 2188.0610, 2191.0464, 2192.0427, 2199.1150,
  2205.0615, 2211.1067, 2223.1533, 2225.1382, 2226.1472, 2239.1646, 2246.9482, 2251.1108, 2255.1484, 2265.0837, 2271.1211, 2273.0735, 2277.0642, 2283.1606, 2285.1355, 2286.0986, 2289.0901, 2291.0173, 2309.0349, 2328.9888, 2343.0608, 2352.9583, 2355.0383, 2366.9595,
   2371.0325, 2392.1594, 2400.0532, 2424.1577, 2434.2429, 2438.2283, 2450.2451, 2451.2480, 2465.1592, 2466.2458, 2467.2458, 2478.1377
  2501.2207, 2523.2014, 2540.2451, 2545.2258, 2561.6841, 2562.1826, 2562.6890, 2573.2495, 2576.1792, 2646.9758, 2659.2144, 2661.1409,
   2662.0120, 2671.1924, 2681.2705, 2682.2888, 2685.3098, 2689.3059, 2695.1064, 2696.2695, 2699.2324, 2703.2529, 2705.2944, 2712.2937,
  2717.2903, 2720.2839, 2721.2937, 2726.2935, 2727.2986, 2728.3079, 2739.2837, 2743.2729, 2744.2207, 2745.2256, 2746.2031, 2748.2295,
   2755.2700, 2760.2590, 2763.1829, 2771.2400, 2778.1865, 2785.2969, 2786.2561, 2787.2524, 2790.2317, 2792.2166, 2800.3093, 2801.2932,
  2803.2415, 2804.2429, 2807.2869, 2808.2227, 2812.2244, 2813.2373, 2817.2632, 2820.2441, 2824.2598, 2828.2454, 2833.2544, 2843.2900, 2844.3398, 2847.3630, 2851.3313, 2864.3188, 2890.3293, 2896.4324, 2908.3105, 2910.3325, 2911.3594, 2912.4265, 2925.3323, 3023.3674,
   3025.3865, 3026.3452, 3039.3838, 3042.3542, 3070.3745, 3071.3933, 3086.3984, 3087.3970, 3101.3831, 3103.4006, 3104.4041, 3110.4143,
  3127.4749, 3141.4126, 3143.5066, 3144.5298, 3159.5210, 3219.4854, 3236.5574, 3266.6021, 3280.5635, 3321.6216, 3344.4895, 3347.5515, 3348.5020, 3380.5210, 3396.5195, 3412.5801, 3427.6099, 3428.5874, 3444.5840, 3462.6301, 3478.6123, 3484.6497, 3489.7246, 3505.6919,
  3510.5859, 3521.6392, 3552.6614, 3553.6028, 3554.5630, 3558.6460, 3573.6545, 3589.6523, 3608.6155, 3624.6685, 3630.5806, 3641.7090, 3651.7944, 3667.7266, 3683.6980, 3691.7681, 3707.7200, 3714.5493, 3715.6206, 3719.6914, 3720.7048, 3723.7041, 3735.7100, 3830.8091,
  3869.7393, 3876.6707, 3885.6946
                   Mass: 45065
                                              Score: 18
                                                                         Expect: 3.6e+002 Matches: 20
  Hsp90 co-chaperone Cdc37 OS=Bos taurus GN=CDC37 PE=2 SV=1

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss Ions
        Peptide

        805.4417
        804.4344
        804.4163
        22.5
        104 - 109
        1 ---
        K.LEEMR

        949.5244
        948.5171
        948.5062
        11.5
        104 - 110
        2 ---
        K.LEEMR

                                                                  22.5 104 - 109 1 --- K.LEEMRK.K
11.5 104 - 110 2 --- K.LEEMRKK.E + Oxidation (M)
949.5244 948.5171 948.5062 11.5 104 - 110 2 --- K.EEMRKK.E + Oxidation (M)

1043.5297 1042.5224 1042.5335 -10.62 152 - 159 1 --- K.TFVEKYEK.Q

1056.5575 1055.5502 1055.5723 -20.94 86 - 94 0 --- R.LQAEAQQIR.K

1145.6373 1144.6300 1144.6175 10.9 160 - 168 1 --- K.QIKHFGMIR.R + Oxidation (M)

1194.6001 1193.5928 1193.5863 5.49 37 - 45 1 --- R.VERMEÇFQK.E

1308.6797 1307.6724 1307.6874 -11.42 150 - 159 2 --- K.HKTFVEKYEK.Q

1358.6919 1357.6846 1357.7089 -17.86 68 - 80 1 --- K.LKELEVAEGEGGK.A

1375.6693 1374.6620 1374.6602 1.34 338 - 349 0 --- R.CIDSCLWVPNSK.S

1445.7913 1444.7840 1444.7649 13.2 234 - 244 2 --- R.ACFRQFFTKIK.T

1467.7560 1466.7487 1466.7187 20.4 37 - 47 2 --- R.VERMEÇFQKE.E + Oxidation (M)

1550.7543 1549.7470 1549.7446 1.55 111 - 123 1 --- K.EKSMPWNVDTLSK.D + Oxidation (M)

1662.8666 1661.8593 1661.8447 8.82 110 - 123 2 --- K.EKSMPWNVDTLSK.D

1702.8386 1701.8313 1701.8369 -3.28 33 - 45 2 --- R.HQARVERMEQFQK.E + Oxidation (M)

2068.9661 2067.9588 2067.9935 -16.78 111 - 128 2 --- K.EESSWEQKLEEMR.K + Oxidation (M)

2068.9661 2067.9588 2067.9935 -16.78 111 - 128 2 --- K.EESSWEQKLEEMR.K + Oxidation (M)

2068.9661 2067.9588 2067.9935 -16.78 111 - 128 2 --- K.EESSWEQKLEEMR.K + Oxidation (M)

20721.2937 2720.2864 2720.2720 5.30 315 - 337 2 --- K.CPDAKDVQMLQDAISKMDPTDAK.Y + 2 Oxidation (M)

23553.6028 3552.5955 3552.6792 -23.57 176 - 204 0 --- K.YLSDNVHLVCEETANYLVIWCIDLEVEEK.C

No match to: 716.3353, 718.2895, 724.2175, 726.3070, 728.2833, 729.4336, 730.2399, 732.2518, 734.4341, 743.3
  No match to: 716.3353, 718.2895, 724.2175, 726.3070, 728.2833, 729.4336, 730.2399, 732.2518, 734.4341, 743.3130, 745.3617, 747.4360, 753.3469, 756.3524, 758.3462, 759.3632, 768.3517, 779.4633, 781.3725, 789.3640, 794.3674, 796.3701, 799.2854, 801.4280, 807.4076, 810.3293, 812.3207, 818.3782, 820.3700, 828.4415, 829.4508, 830.4513, 834.3805, 842.5101, 849.3834, 852.4368, 857.4457,
  860.4262, 868.4412, 870.4462, 873.4370, 877.4166, 880.4280, 882.4470, 883.4816, 887.4295, 889.4857, 891.4872, 894.4923, 898.4610, 900.5174, 905.4763, 907.4251, 912.5086, 914.4942, 920.4296, 922.4855, 928.4565, 929.4484, 933.4327, 936.4976, 938.5062, 944.4982,
  946.4672, 950.5168, 957.5792, 961.5109, 965.5151, 967.4963, 972.5023, 974.4913, 976.5255, 978.5352, 981.5225, 983.6221, 986.546, 988.4922, 993.5123, 995.4512, 998.5833, 1000.5594, 1006.5120, 1007.5640, 1021.5762, 1024.5542, 1031.5300, 1034.5703, 1037.5466,
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  1540.8043, 1543.7938, 1551.7465, 1553.7668, 1555.7836, 1556.8011, 1562.8008, 1568.7620, 1572.7245, 1578.8058, 1580.8580, 1580.8600, 1584.8486, 1587.7675, 1608.8051, 1616.8165, 1621.7870, 1625.7886, 1628.7313, 1632.8120, 1635.7964, 1637.7974, 1642.7417, 1647.8439,
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   1730.8910, 1734.1617, 1738.8267, 1739.8165, 1741.8934, 1743.9005, 1747.9127, 1758.4807, 1758.8918, 1761.8734, 1772.0012, 1774.9300,
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   1997.8479, 2001.8607, 2003.8768, 2004.8850, 2007.9500, 2007.9532, 2011.9381, 2012.8951, 2015.9694, 2017.9860, 2018.9740, 2020.1631,
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  2744.2207, 2745.2256, 2746.2031, 2748.2295, 2755.2700, 2760.2590, 2763.1829, 2771.2400, 2778.1865, 2785.2969, 2786.2561, 2787.2524, 2790.2317, 2792.2166, 2800.3093, 2801.2932, 2803.2415, 2804.2429, 2807.2869, 2808.2227, 2812.2244, 2813.2373, 2817.2632, 2820.2441,
  2824.2598, 2828.2454, 2833.2544, 2843.2900, 2844.3398, 2847.3630, 2851.3313, 2864.3188, 2890.3293, 2896.4324, 2908.3105, 2910.3325,
 2911.3594, 2912.4265, 2925.3323, 2927.4434, 3023.3674, 3025.3865, 3026.3452, 3039.3838, 3042.3542, 3070.3745, 3071.3933, 3086.3984, 3087.3970, 3093.4294, 3101.3831, 3103.4006, 3104.4041, 3110.4143, 3127.4749, 3141.4126, 3143.5066, 3144.5298, 3159.5210, 3219.4854,
  3236.5574, 3266.6021, 3280.5635, 3321.6216, 3344.4895, 3347.5515, 3348.5020, 3380.5210, 3396.5195, 3412.5801, 3427.6099, 3428.5874, 3444.5840, 3462.6301, 3478.6123, 3484.6497, 3489.7246, 3505.6919, 3510.5859, 3521.6392, 3552.6614, 3554.5630, 3558.6460, 3573.6545,
 3589.6523, 3608.6155, 3624.6685, 3630.5806, 3641.7090, 3651.7944, 3667.7266, 3683.6980, 3691.7681, 3707.7200, 3714.5493, 3715.6206, 3719.6914, 3720.7048, 3723.7041, 3735.7100, 3751.7539, 3830.8091, 3869.7393, 3876.6707, 3885.6946
 Q2HJG7
                       Mass: 16553 Score: 18
                                                                                            Expect: 3.6e+002 Matches: 10
  Protein Churchill OS=Bos taurus GN=CHURC1 PE=2 SV=2

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss
        Ions
        Peptide

        829.4508
        828.4435
        828.4566
        -15.74
        3 - 9
        0 ---
        R.RPSLNSR.E

        981.5225
        980.5152
        980.5001
        15.4
        64 - 71
        0 ---
        R.DFMLITNK.S

        1006.5120
        1005.5047
        1005.4927
        12.0
        90 - 97
        0 ---
        K.NCHHYIAR.H

        1761.8734
        1760.8661
        1760.9064
        -22.85
        1 - 15
        2 ---
        -MRRPSLNSREVSSSR.K

        2191.0464
        2190.0391
        2190.0878
        -22.24
        121 - 139
        1 - --
        K.ABDITISILPDDPRQMTLLF. - + Oxidation (M)

        2277.0642
        2276.0569
        2276.0613
        -1.91
        17 - 35
        2 ---
        K.HRRIFADMGVAMCVDCVEK.E

        2659.2144
        2658.2071
        2658.1989
        3.11
        19 - 40
        2 ---
        K.EEDGEEIVTYDHLCKNCHHVIAR.H

        3127.4749
        3126.4676
        3126.4889
        -6.81
        64 - 89
        2 ---
        R.DFMLITNKSLKEEDGEEIVTYDHLCK.N

        3143.5066
        3142.4993
        3142.493
        64 - 89
        2 ---
        <td
   Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide
  747.4360, 753.3469, 756.3524, 758.3462, 759.3632, 768.3517, 779.4633, 781.3725, 789.3640, 794.3674, 796.3701, 799.2854, 801.4280, 805.4417, 807.4076, 810.3293, 812.3207, 818.3782, 820.3700, 828.4415, 830.4513, 834.3805, 842.5101, 849.3834, 852.4368, 857.4457,
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 3624.6685, 3630.5806, 3641.7090, 3651.7944, 3667.7266, 3683.6980, 3691.7681, 3707.7200, 3714.5493, 3715.6206, 3719.6914, 3720.7048, 3723.7041, 3735.7100, 3751.7539, 3830.8091, 3869.7393, 3876.6707, 3885.6946
                                                                                         Expect: 3.7e+002 Matches: 10
  LYR motif-containing protein 4 OS=Bos taurus GN=LYRM4 PE=3 SV=1
Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide
  No match to: 716.3353, 718.2895, 724.2175, 726.3070, 728.2833, 729.4336, 730.2399, 732.2518, 734.4341, 743.3130, 745.3617, 747.4360, 753.3469, 756.3524, 758.3462, 759.3632, 768.3517, 781.3725, 789.3640, 794.3674, 796.3701, 799.2854, 801.4280, 805.4417, 807.4076, 810.3293, 812.3207, 818.3782, 820.3700, 828.4415, 829.4508, 830.4513, 834.3805, 849.3834, 852.4368, 857.4457, 860.4262,
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G3N0J4 Mass: 6707
                                            Score: 18
                                                                    Expect: 4e+002 Matches: 6
 Uncharacterized protein OS=Bos taurus PE=4 SV=1
Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide

1194.6001 1193.5928 1193.5750 14.9 17 - 26 0 --- R.LPEAMLEGYR.A + Oxidation (M)

1657.8483 1656.8410 1656.8431 -1.24 27 - 42 2 --- R.AESIPPTSSGRNEGKK.E

2277.0642 2276.0569 2276.1107 -23.61 17 - 37 1 --- R.LPEAMLEGYRAESIPPTSSGR.N + Oxidation (M)

2545.2258 2544.2185 2544.2754 -22.36 14 - 37 2 --- R.AGRLPEAMLEGYRAESIPPTSSGR.N

2689.3059 2688.2986 2688.3177 -7.09 17 - 41 2 --- R.LPEAMLEGYRAESIPPTSSGRNEGK.K

2705.2944 2704.2871 2704.3126 -9.42 17 - 41 2 --- R.LPEAMLEGYRAESIPPTSSGRNEGK.K + Oxidation (M)

No match to: 716.3353, 718.2895, 724.2175, 726.3070, 728.2833, 729.4356, 730.2399, 732.2518, 734.4341, 743.3130, 745.3617, 747.4360, 755.3657, 759.3667, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.3657, 759.365
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Expect: 4.1e+002 Matches: 19
22
               F1N2B6 Mass: 97976 Score: 18
                Uncharacterized protein OS=Bos taurus GN=AR PE=3 SV=2

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End
        Miss
        Ions
        Peptide

        988.4922
        987.4849
        987.4873
        -2.41
        274
        -283
        0
        ---
        K.GSLLD

                                                                                                                                                                             K.GSLLDDGPSK.G
            | 1356.6255 | 1355.6182 | 1355.6326 | -10.58 | 590 | -601 | 1 | --- | K.CYEAGMTLGARK.L | + Oxidation (M) |
| 1475.7615 | 1474.7542 | 1474.7278 | 17.9 | 797 | -807 | 1 | --- | K.FFDELRMYIK.E |
| 1484.7480 | 1483.7407 | 1483.7275 | 8.90 | 589 | -601 | 2 | --- | R.KCYEAGMTLGARK.L | + Oxidation (M) |
| 1500.7393 | 1499.7320 | 1499.7224 | 6.39 | 589 | -601 | 2 | --- | R.KCYEAGMTLGARK.L | + Oxidation (M) |
| 1500.7400 | 1499.7327 | 1499.7224 | 6.86 | 589 | -601 | 2 | 18 | R.KCYEAGMTLGARK.L | + Oxidation (M) |
| 1625.7886 | 1624.7813 | 1624.8177 | -22.41 | 587 | -600 | 2 | --- | R.LERCYEAGMTLGARK.L | + Oxidation (M) |
| 1625.7886 | 1624.7813 | 1624.8177 | -22.41 | 587 | -600 | 2 | --- | R.LERCYEAGMTLGARK.L | + Oxidation (M) |
| 1625.7886 | 1624.7813 | 1624.8177 | -22.41 | 587 | -600 | 2 | --- | R.LERCYEAGMTLGARK.L | + Oxidation (M) |
| 1625.7886 | 1624.7813 | 1624.8177 | -22.41 | 587 | -600 | 2 | --- | R.LERCYEAGMTLGARK.L | + Oxidation (M) |
| 1625.7886 | 1624.7813 | 1624.8177 | -22.41 | 587 | -600 | 2 | --- | R.LERCYEAGMTLGARK.L | + Oxidation (M) |
| 1625.7886 | 1624.7813 | 1624.8177 | -22.41 | 587 | -600 | 2 | --- | R.LERCYEAGMTLGARK.L | + Oxidation (M) |
| 1625.7886 | 1624.7813 | 1624.8177 | -22.41 | 587 | -600 | 2 | --- | R.LERCYEAGMTLGARK.L | + Oxidation (M) |
| 1625.7886 | 1624.7813 | 1624.8177 | -22.41 | 587 | --- | R.LERCYEAGMTLGARK.L | + Oxidation (M) |
| 1625.7886 | 1624.7813 | 1624.8177 | -22.41 | 587 | --- | R.LERCYEAGMTLGARK.L | + Oxidation (M) |
| 1625.7886 | 1624.7813 | 1624.8177 | -22.41 | 587 | --- | R.LERCYEAGMTLGARK.L | + Oxidation (M) |
| 1625.7886 | 1624.7813 | 1624.8177 | -22.41 | 587 | --- | R.LERCYEAGMTLGARK.L | + Oxidation (M) |
| 1625.7886 | 1624.7813 | 1624.8177 | -22.41 | 587 | --- | R.LERCYEAGMTLGARK.L | + Oxidation (M) |
| 1625.7886 | 1624.7813 | 1624.8177 | -22.41 | 587 | --- | R.LERCYEAGMTLGARK.L | + Oxidation (M) |
| 1625.7886 | 1624.7813 | 1624.8177 | -22.41 | 587 | --- | R.LERCYEAGMTLGARK.L | + Oxidation (M) |
| 1625.7886 | 1624.7813 | 1624.8177 | -22.41 | 587 | --- | R.LERCYEAGMTLGA
               1356.6255 1355.6182 1355.6326 -10.58
                                                                                                                          590 - 601
                                                                                                                                                                                  K.CYEAGMTLGARK.L
                                                                                                                                                                                 R.VPYPSPSCVKSEMGPWMENYSGPYGDMRLETTR.D + 3 Oxidation (M)
                No match to: 716.3353, 718.2895, 724.2175, 726.3070, 728.2833, 729.4336, 730.2399, 732.2518, 734.4341, 743.3130, 745.3617,
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                2720.2839, 2721.2937, 2726.2935, 2727.2986, 2728.3079, 2739.2837, 2743.2729, 2744.2207, 2745.2256, 2746.2031, 2748.2295, 2755.2700, 2760.2590, 2763.1829, 2771.2400, 2778.1865, 2785.2969, 2786.2561, 2787.2524, 2790.2317, 2792.2166, 2800.3093, 2801.2932, 2803.2415,
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                3127.4749, 3141.4126, 3143.5066, 3144.5298, 3159.5210, 3219.4854, 3236.5574, 3266.6021, 3280.5635, 3321.6216, 3344.4895, 3347.5515, 3348.5020, 3380.5210, 3396.5195, 3412.5801, 3427.6099, 3428.5874, 3444.5840, 3462.6301, 3484.6497, 3489.7246, 3505.6919, 3510.5859,
                3521.6392, 3552.6614, 3553.6028, 3554.5630, 3558.6460, 3573.6545, 3589.6523, 3608.6155, 3624.6685, 3630.5806, 3641.7090, 3651.7944, 3667.7266, 3683.6980, 3691.7681, 3714.5493, 3715.6206, 3720.7048, 3723.7041, 3830.8091, 3876.6707, 3885.6946
                                                                                                                    Expect: 4.2e+002 Matches: 9
                                        Mass: 16136 Score: 18
                Protein FAM183A OS=Bos taurus GN=FAM183A PE=2 SV=1

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss
        Ions
        Peptide

        928.4565
        927.4493
        927.4596
        -11.16
        1
        -
        8
        1
        ---
        -MAGHQ

              | Deserved | MR (46)-0 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
                No match to: 716.3353, 718.2895, 724.2175, 726.3070, 728.2833, 729.4336, 730.2399, 732.2518, 734.4341, 743.3130, 745.3617,
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   3608.6155, 3624.6685, 3630.5806, 3641.7090, 3651.7944, 3667.7266, 3683.6980, 3691.7681, 3707.7200, 3714.5493, 3715.6206, 3719.6914,
   3720.7048. 3723.7041. 3735.7100. 3751.7539. 3830.8091. 3869.7393. 3876.6707. 3885.6946
  Q0VCW1
                     Mass: 42846
                                                   Score: 18
                                                                                   Expect: 4.2e+002 Matches: 17
   Speckle-type POZ protein OS=Bos taurus GN=SPOP PE=2 SV=1
Observed Mr (earc) ppm Start End Miss Ions Peptide

1336.7301 1335.7228 1335.7034 14.5 104 - 115 1 --- K.FSILNAKGEETK.A

1500.7393 1499.7320 1499.7555 -15.64 355 - 368 0 --- R.SLASAQCPFLGPPR.K

1500.7400 1499.7327 1499.7555 -15.17 355 - 368 0 --- R.SLASAQCPFLGPPR.K

1655.8147 1654.8074 1654.7733 20.6 111 - 124 2 --- K.GEETKAMESQRAYR.F

1781.8585 1780.8512 1780.8665 -8.58 269 - 284 1 --- K.MADDLLAAADKYALER.L + Oxidation (M)

1787.8407 1786.8334 1786.8771 -24.43 263 - 279 1 --- K.APNLDKMADDLLAAADK.Y + Oxidation (M)

2012.8951 2011.8878 2011.9019 -7.00 222 - 238 1 --- R.SEMGEVIKSSTFSSGANDK.L

2055.0205 2054.0132 2054.0102 1.47 104 - 121 2 --- K.FSILNAKGEETKAMESQR.A + Oxidation (M)

2273.0735 2272.0662 2272.0893 -10.14 46 - 66 2 --- R.EEMGEVIKSSTFSSGANDKLK.W + Oxidation (M)

2804.2429 2803.2356 2803.2444 -3.14 32 - 53 1 --- K.FSYMTINNFSFCREEMGEVIK.S + Oxidation (M)

3321.6216 3320.6143 3320.6910 -23.10 340 - 369 2 --- K.SMVSHPILVABAYRSLASAQCPFLGPPR.K R + Oxidation (M)

3348.5020 3347.4947 3347.5764 -24.39 241 - 268 2 --- R.VEINDVEPEVFKEMMCFIYTGKAPNLDK.M + 2 Oxidation (M)

3358.6460 3557.6387 3557.7051 -18.66 287 - 318 0 --- K.FSYMTINNFSFCREEMGEVIK.STFSSGANDK.L

3885.6946 3884.6873 3884.7120 -6.36 32 - 64 2 --- K.FSYMTINNFSFCREEMGEVIKSSTFSSGANDK.L + Oxidation (M)

No match to: 716.3353, 718.2895, 724.2175, 726.3070, 728.2833, 729.4336, 730.2399, 732.2518, 734.4341, 743.3130, 745.
                                                                     ppm Start End Miss Ions Peptide
   Observed Mr(expt) Mr(calc)
   No match to: 716.3353, 718.2895, 724.2175, 726.3070, 728.2833, 729.4336, 730.2399, 732.2518, 734.4341, 743.3130, 745.3617,
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   1553.7668, 1555.7836, 1556.8011, 1562.8008, 1568.7620, 1572.7245, 1578.8058, 1580.8580, 1580.8600, 1584.8486, 1587.7675, 1608.8051, 1616.8165, 1621.7870, 1625.7886, 1628.7313, 1632.8120, 1635.7964, 1637.7974, 1642.7417, 1647.8439, 1650.8429, 1651.8369, 1657.8483, 1658.8953, 1660.8379, 1662.8666, 1664.8490, 1666.7892, 1679.8091, 1680.8357, 1682.8409, 1696.8464, 1698.8180, 1701.8243, 1702.8386,
   1707.8938, 1710.8904, 1714.7905, 1716.8219, 1717.9052, 1718.9094, 1721.8976, 1722.9003, 1724.9030, 1728.8840, 1730.8910, 1734.1617, 1738.8267, 1739.8165, 1741.8934, 1743.9005, 1747.9127, 1758.4807, 1758.8918, 1761.8734, 1765.8154, 1772.0012, 1774.9300, 1774.9319,
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                                                                                                                                                                                                                                                                  1845.8363.
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   2526.2585, 2540.2451, 2542.2578, 2545.2258, 2550.2373, 2561.6841, 2562.1826, 2562.6890, 2573.2495, 2576.1792, 2646.9758, 2659.2144,
  2661.1409, 2662.0120, 2671.1924, 2681.2705, 2682.2888, 2685.3098, 2689.3059, 2695.1064, 2696.2695, 2699.2324, 2703.2529, 2705.2944, 2712.2937, 2717.2903, 2720.2839, 2721.2937, 2726.2935, 2727.2986, 2728.3079, 2739.2837, 2743.2729, 2744.2207, 2745.2256, 2746.2031,
   2748.2295, 2755.2700, 2760.2590, 2763.1829, 2771.2400, 2778.1865, 2785.2969, 2786.2561, 2787.2524, 2790.2317, 2792.2166,
                                                                                                                                                                                                                                                                  2800.3093
   2801.2932, 2803.2415, 2807.2869, 2808.2227, 2812.2244, 2813.2373, 2817.2632, 2824.2598, 2828.2454, 2833.2544, 2843.2900, 2844.3398,
           .3630, 2851.3313, 2864.3188, 2890.3293, 2896.4324, 2908.3105, 2910.3325, 2911.3594, 2912.4265, 2925.3323, 2927.4434, 3023.3674,
   3025.3865, 3026.3452, 3039.3838, 3042.3542, 3070.3745, 3071.3933, 3086.3984, 3087.3970, 3093.4294, 3101.3831, 3103.4006, 3104.4041, 3110.4143, 3127.4749, 3141.4126, 3143.5066, 3144.5298, 3159.5210, 3219.4854, 3236.5574, 3266.6021, 3280.5635, 3344.4895, 3347.5515,
   3380.5210, 3396.5195, 3412.5801, 3427.6099, 3428.5874, 3444.5840, 3462.6301, 3478.6123, 3484.6497, 3489.7246, 3505.6919, 3510.5859,
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                                                                                  Score: 17
                                                                                                                        Expect: 4.5e+002 Matches: 15
                                         Mass: 28555
                Brain-derived neurotrophic factor OS=Bos taurus GN=BDNF PE=2 SV=2

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss Ions
        Peptide

        781.3725
        780.3652
        780.3687
        -4.51
        220
        - 226
        0
        ---
        R.ALTMDSK.K + Oxidation (M)

                1118.5687 1117.5614 1117.5880 -23.78
                                                                                                                                  28 - 38
                                                                                                                                                                                          R.AQGSLAYPGVR.T
                1572.7245 1571.7172 1571.7184 -0.76 118 - 130 1 --- K.NYLDAANMSMRVR.R + 2 Oxidation (M) 1616.8165 1615.8092 1615.7876 13.4 213 - 226 1 --- R.TTQSYVRALTMDSK.K + Oxidation (M)
              1572.7245 1571.7172 1571.7184 -0.76 118 - 130 1 --- K.NYLDAANMSMRVR.R + 2 Oxidation (M) 1616.8165 1615.8092 1615.7876 13.4 213 - 226 1 --- R.TTQSYVRALTMDSK.K + Oxidation (M) 1651.8369 1650.8299 -12.25 157 - 172 1 --- K.KTAVDMSGGTVTVLEK.V + Oxidation (M) 1696.8464 1695.8391 1695.8297 5.57 118 - 131 2 --- K.NYLDAANMSMRVR.H 1728.8840 1727.8767 1727.8876 -6.30 213 - 227 2 --- R.TTQSYVRALTMDSKK.R 1779.9012 1778.8939 1778.9131 -10.80 236 - 250 2 --- R.TTQSYVRALTMDSKK.R 1779.9012 1778.8939 1778.9131 -10.80 236 - 250 2 --- R.IDTSCVCTLTIKRGR.- 2011.9381 2010.9308 2010.9306 12.1 80 - 96 1 --- K.VRPSEENNKDADMYTSR.V 2055.0205 2054.0132 2054.0113 0.93 1 - 17 0 --- -- MTILFLTMVISYFGCMK.A 2101.9881 2101.9981 2101.9981 -3.78 1 - 17 0 --- -- MTILFLTMVISYFGCMK.A + 3 Oxidation (M) 2122.9578 2121.9505 2122.0001 -23.35 138 - 156 1 --- R.RGELSVCDSISEMVTAADK.K 2251.1108 2250.1035 2250.0950 3.77 138 - 157 2 --- R.RGELSVCDSISEMVTAADKK.T 2438.2283 2437.2210 2437.2282 -2.159 132 - 156 2 --- R.HSDPARRGELSVCDSISEWVTAADKK.E + Oxidation (M) 2786.2561 2785.2488 2785.3089 -21.59 132 - 156 2 --- R.HSDPARRGELSVCDSISEWVTAADK.K 70 match to: 716.3353, 718.2895, 724.2175, 726.3070, 728.2833, 729.4336, 730.2399, 732.2518, 734.4341, 7
                 No match to: 716.3353, 718.2895, 724.2175, 726.3070, 728.2833, 729.4336, 730.2399, 732.2518, 734.4341, 743.3130, 745.3617,
                 747.4360, 753.3469, 756.3524, 758.3462, 759.3632, 768.3517, 779.4633, 789.3640, 794.3674, 796.3701, 799.2854, 801.4280, 805.4417, 807.4076, 810.3293, 812.3207, 818.3782, 820.3700, 828.4415, 829.4508, 830.4513, 834.3805, 842.5101, 849.3834, 852.4368, 857.4457, 860.4262, 868.4412, 870.4462, 873.4370, 877.4166, 880.4280, 882.4470, 883.4816, 887.4295, 889.4857, 891.4872, 894.4923, 898.4610,
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                2766.2935, 2727.2986, 2728.3079, 2739.2837, 2745.2729, 2744.2207, 2745.2256, 2746.2031, 2748.2295, 2755.2700, 2760.2590, 2763.1829, 2771.2400, 2778.1865, 2785.2969, 2787.2524, 2790.2317, 2792.2166, 2800.3093, 2801.2932, 2803.2415, 2804.2429, 2807.2869, 2808.2227, 2812.2244, 2813.2373, 2817.2632, 2820.2441, 2824.2598, 2828.2454, 2833.2544, 2843.2900, 2844.3398, 2847.3630, 2851.3313, 2864.3188,
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26. <u>G5E620</u> Mass: 21503 Score: 17
                                                                                                                     Expect: 4.6e+002 Matches: 11
                 Uncharacterized protein OS=Bos taurus GN=LOC101904345 PE=4 SV=1
              Uncharact=rized protein OS=Bos taurus GN=LOCI01904345 PE=4 SV=1

Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide

820.3700 819.3627 819.3659 -3.88 160 - 165 0 --- K.GQLQYDAMTSSR.M

1356.6255 1355.6182 1355.6140 3.15 167 - 178 0 --- K.GQLQYDAMTSSR.M

1372.6228 1371.6155 1371.6089 4.85 167 - 178 0 --- K.GQLQYDAMTSSR.M + Oxidation (M)

1484.7480 1483.7407 1483.7089 21.4 166 - 178 1 --- K.KGQLQYDAMTSSR.M

1500.7393 1499.7320 1499.7328 18.8 166 - 178 1 --- K.KGQLQYDAMTSSR.M + Oxidation (M)

1500.7400 1499.7327 1499.7038 19.3 166 - 178 1 --- K.KGQLQYDAMTSSR.M + Oxidation (M)

1787.8407 1786.8334 1786.8737 -22.56 20 - 34 1 --- K.WLDVIDQGNEDDKIK.A

1990.9373 1989.9300 1989.9176 6.26 150 - 165 1 --- K.EQSLESEPVRMTMFYK.K + Oxidation (M)

1202.9954 2101.9881 2102.0176 -14.03 150 - 166 2 --- K.EQSLESEPVRMTMFYK.K G

2286.0986 2285.0913 2285.0643 11.8 160 - 178 2 --- R.MTMFYKKGQLQYDAMTSSR.M

2501.2207 2500.2134 2500.2705 -22.84 145 - 165 2 --- K.VALVIKEQSLESEPVRMTMFYK.K + Oxidation (M)

No match to: 716.3353, 718.2895, 724.2175, 726.3070, 728.2833, 729.4336, 730.2399, 732.2518, 734.4341, 7
                 No match to: 716.3353, 718.2895, 724.2175, 726.3070, 728.2833, 729.4336, 730.2399, 732.2518, 734.4341, 743.3130, 745.3617,
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  3735.7100, 3751.7539, 3830.8091, 3869.7393, 3876.6707, 3885.6946
                   Mass: 50922
                                              Score: 17
                                                                         Expect: 4.8e+002 Matches: 22
  Inositol hexakisphosphate kinase 1 OS=Bos taurus GN=IP6K1 PE=2 SV=1

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End
        Miss
        Ions
        Peptide

        753.3469
        752.3396
        752.3487
        -11.99
        15
        -
        200
        1
        ---
        R.MRSES

                                                                                                                      R.MRSESK.D + Oxidation (M)
 781.3725 780.3652 780.3622 3.88 354 - 359 1 --- R.SEMRMK.H
1056.5575 1055.5502 1055.5294 19.7 187 - 194 1 --- R.CHKQQLSR.M
No match to: 716.3353, 718.2895, 724.2175, 726.3070, 728.2833, 729.4336, 730.2399, 732.2518, 734.4341, 743.3130, 745.3617, 747.4360, 756.3524, 758.3462, 759.3632, 768.3517, 779.4633, 789.3640, 794.3674, 796.3701, 799.2854, 801.4280, 805.4417, 807.4076, 810.3293, 812.3207, 818.3782, 820.3700, 828.4415, 829.4508, 830.4513, 834.3805, 842.5101, 849.3834, 852.4368, 857.4457, 860.4262, 868.4412, 870.4462, 873.4370, 877.4166, 880.4280, 882.4470, 883.4816, 887.4295, 889.4857, 891.4872, 894.4923, 898.4610, 900.5174, 905.4763, 907.4251, 912.5086, 914.4942, 920.4296, 922.4855, 928.4565, 929.4484, 933.4327, 936.4976, 938.5062, 944.4982, 946.4672, 940.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950.4760, 950
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                                                            Score: 17
                                                                                               Expect: 4.8e+002 Matches: 5
                       Mass: 13281
  Uncharacterized protein OS=Bos taurus GN=FAM229A PE=4 SV=1

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss
        Ions
        Peptide

        1445.7913
        1444.7840
        1444.7746
        6.52
        31 - 46
        1 ---
        R.ARAAASSLGLASASGR.A

        2847.3630
        2846.3557
        2846.3046
        18.0
        100 - 124
        0 ---
        R.CPGCHCLTLLPMPIDVYLAMGGSPR.A + 2 Oxidation (M)

 3039.3838 3038.3765 3038.4451 -22.56 1 - 30 1 --- -.MQPSPSTPGPGRAADTCPAPPGPERPPAAR.A + Oxidation (M) 3266.6021 3265.5948 3265.5833 3.53 1 - 32 2 --- -.MQPSPSTPGPGRAADTCPAPPGPERPPAARAR.A + Oxidation (M) 3651.7944 3650.7871 3650.7965 -2.56 64 - 98 0 --- R.FPIEAGDSPGLAAAPESQDSPEPVATEHNPVRPLR.R
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                                                                                                Expect: 4.8e+002 Matches: 17
  MGC142792 protein OS=Bos taurus GN=MGC142792 PE=2 SV=1
2140.0063 2138.9990 2139.0506 -24.13 216 - 233 1 --- R.VVNAMGKQWHVEHFVCAK.C

2355.0383 2354.0310 2354.0313 -4.35 2 - 24 0 --- M.LGVASGMTNSNMANALANASCER.C + Oxidation (M)

2371.0325 2370.0252 2370.0362 -4.63 2 - 24 0 --- M.LGVASGMTNSNMANALANASCER.C + 2 Oxidation (M)

2671.1924 2670.1851 2670.1730 4.53 2 - 26 1 --- M.LGVASGMTNSNMANALANASCER.C + 2 Oxidation (M)

2786.2561 2785.2488 2785.2186 10.9 1 - 26 1 --- M.LGVASGMTNSNMANALANASCER.C G + Oxidation (M)

3402.5801 3279.5562 3279.6005 -13.49 216 - 242 2 --- R.VVNAMGKQWHVEHFVCAKCEKFFLGHR.H + Oxidation (M)

3412.5801 3411.5728 3411.5540 5.52 2 - 34 2 --- M.LGVASGMTNSNMANALANASCERCR.GGFAPAEK.I

3428.5874 3427.5801 3427.5889 9.10 2 - 34 2 --- M.LGVASGMTNSNMANALANASCERCRGGFAPAEK.I

3444.5840 3443.5767 3443.5438 9.55 2 - 34 2 --- M.LGVASGMTNSNMANALANASCERCRGGFAPAEK.I + Oxidation (M)

3510.5859 3509.5786 3509.5786 3509.5703 2.36 150 - 178 1 --- K.CHAIIDEQPLIFKNDPYHPDHFNCANCGK.E
  No match to: 716.3353, 718.2895, 724.2175, 726.3070, 728.2833, 729.4336, 730.2399, 732.2518, 734.4341, 743.3130, 745.3617,
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                                                                         Expect: 4.9e+002 Matches: 13
                  Mass: 36525
                                               Score: 17
  Uncharacterized protein OS=Bos taurus GN=SCRT1 PE=4 SV=1

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss
        Tons
        Peptide

        873.4370
        872.4297
        872.4100
        22.5
        180 - 190
        0 ---
        R.AGPGAGSSGGR.H

        889.4857
        888.4784
        888.4665
        13.5
        215 - 222
        0 ---
        R.SLDSQLAR.R

        1045.5594
        1044.5521
        1044.5676
        -14.80
        215 - 223
        1 ---
        R.SLDSQLARR.C

        1157.5676
        1156.5603
        1156.5448
        13.5
        293 - 302
        0 ---
        R.AHMQTHSAFK.H

        1364.7118
        1363.7045
        1363.6844
        14.8
        199 - 210
        1 ---
        K.TYATSSNLSRHK.Q

        1743.9005
        1742.8932
        1742.8521
        23.6
        159 - 179
        2 ---
        R.GAGSGAGGGGGARAGGTEAR.A

        2029.9972
        2028.9899
        2028.9523
        18.5
        293 - 308
        2 ---
        R.AHMQTHSAFKHFQCKR.C + Oxidation (M)

        2188.0610
        2187.0537
        2187.0756
        -9.99
        284 - 302
        2 ---
        K.AFADRSNLRAHMQTHSAFK.H

        2523.2014
        2522.1746
        7.76
        128 - 158
        0 ---
        K.AFADRSNLR
                                                            ppm Start End Miss Ions Peptide
   Observed Mr(expt) Mr(calc)
                                                                9.07 127 - 167 2 --- R.KAANASAAAAPSAASAPAPDGDGGGGVGAGTRGAGSGAGGR.G
 3321.6216 3320.6143 3320.5842
  No match to: 716.3353, 718.2895, 724.2175, 726.3070, 728.2833, 729.4336, 730.2399, 732.2518, 734.4341, 743.3130, 745.3617,
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3651.7944, 3667.7266, 3683.6980, 3691.7681, 3707.7200, 3714.5493, 3715.6206, 3719.6914, 3720.7048, 3723.7041, 3735.7100, 3751.7539, 3830.8091, 3869.7393, 3876.6707, 3885.6946 Expect: 4.9e+002 Matches: 14 Mass: 21544 Score: 17 Uncharacterized protein OS=Bos taurus GN=TNNI2 PE=4 SV=1
 Observed
 Mr(expt)
 Mr(calc)
 ppm
 Start
 End Miss Ions
 Peptide

 1137.5647
 1136.5574
 1136.5682
 -9.46
 115 - 124
 1 -- R.VRMSADAMLK.A + Oxidation (M)
 1137.5647 1136.5574 1136.5682 1293.6760 1292.6687 1292.6693 -0.43 114 - 124 2 --- R.RVRMSADAMLK.A + Oxidation (M) 1467.7560 1466.7487 1466.7473 1.00 117 - 130 1 --- R.MSADAMLKALLGSK.H + 2 Oxidation (M) 747.4360, 753.3469, 756.3524, 758.3462, 759.3632, 768.3517, 779.4633, 781.3725, 789.3640, 794.3674, 796.3701, 799.2854, 801.4280, 805.4417, 807.4076, 810.3293, 812.3207, 818.3782, 820.3700, 828.4415, 829.4508, 830.4513, 834.3805, 842.5101, 849.3834, 852.4368, 857.4457, 860.4262, 868.4412, 870.4462, 873.4370, 877.4166, 880.4280, 882.4470, 883.4816, 887.4295, 889.4857, 891.4872, 894.4923, 898.4610, 900.5174, 905.4763, 907.4251, 912.5086, 914.4942, 920.4296, 922.4855, 928.4565, 929.4484, 933.4327, 936.4976, 938.5062, 944.4982, 946.4672, 949.5244, 950.5168, 957.5792, 961.5109, 965.5151, 967.4963, 972.5023, 974.4913, 976.5255, 978.5352, 981.5225, 983.6221, 986.5463, 988.4922, 993.5123, 995.4512, 998.5833, 1000.5594, 106.5120, 1007.5640, 1021.5762, 1024.5542, 1031.5300, 1034.5703, 1037.5466, 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 Observed
 Mr (expt)
 Mr (calc)
 ppm
 Start
 End Miss Ions
 Peptide

 747.4360
 746.4287
 746.4109
 23.9
 68 - 73
 0 --- R.SLQIM
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                        Mass: 24749
                                                          Score: 17
                                                                                           Expect: 5.1e+002 Matches: 12
 Ropporin-1-like protein OS=Bos taurus GN=ROPN1L PE=4 SV=1
  Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide
No match to: 716.3353, 718.2895, 724.2175, 726.3070, 728.2833, 729.4336, 730.2399, 732.2518, 734.4341, 743.3130, 745.3617,
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2755.2700, 2760.2590, 2763.1829, 2771.2400, 2778.1866, 2785.2969, 2786.2561, 2787.2524, 2790.2317, 2792.2166, 2800.3093, 2801.2932, 2803.2415, 2804.2429, 2807.2869, 2808.2227, 2812.2244, 2813.2373, 2817.2632, 2820.2441, 2824.2598, 2828.2454, 2833.2544, 2843.2900, 2844.3398, 2847.3630, 2851.3313, 2864.3188, 2890.3293, 2864.4324, 2908.3105, 2910.3325, 2911.3594, 2912.4265, 2925.3323, 2927.4434, 3023.3674, 3025.3865, 3026.3452, 3039.3838, 3042.3542, 3070.3745, 3071.3933, 3086.3984, 3087.3970, 3093.4294, 3101.3831, 3103.4006,
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Mass: 49406
                                                                                Expect: 5.2e+002 Matches: 19
F1N1Y9
                                                    Score: 17
  Zinc finger protein 2 OS=Bos taurus GN=ZNF2 PE=4 SV=2
  Observed Mr(expt) Mr(calc)
                                                                 ppm Start End Miss Ions Peptide
                                               949.4981
                                                                                    418 - 425
  950.5168
                         949.5096
                                                                                                                                R.RYAKQGID.-
  961.5109
                         960.5037
                                               960.5253 -22.58
                                                                                     303 - 310
                                                                                                              0 ---
                                                                                                                                R.HOLIHTGR.K
 1056.5575 1055.5502
                                             1055.5764 -24.77
                                                                                     250 - 258
                                                                                                              0 ---
                                                                                                                                R.IHTGEKPFK.C
1110.5851 1109.5778 1109.6054 -24.83
                                                                                    410 - 418
                                                                                                            1 --- K.SSVIQHQRR.Y
1113.5701 1112.5628 1112.5614
                                                                                    321 - 330
                                                                                                            0 --- K.AFYGVSSLNR.H
                                                                     1.24
                                                                     20.5 382 - 389 2 --- R.CRLTRHQR.V
-5.08 331 - 340 1 --- R.HQKAHAGEPR.Y
 1126.6241 1125.6168 1125.5938
1130.5756 1129.5683 1129.5741
                                                                    -5.08
                                                                                   405 - 418 2 --- K.VFSSKSSVIQHQRR.Y
259 - 274 2 --- K.CSECGKAFFDRSSLTR.H
 1658.8953 1657.8880 1657.9012 -7.97
1920.9131 1919.9058 1919.8618
                                                                      22.9
2225.1382 2224.1309 2224.1250 2.68
                                                                                    321 - 340 2 --- K.AFYGVSSLNRHQKAHAGEPR.Y
                                                                                    30 - 47 2 --- R.LVPTQRDLYKEVMLENYK.S
30 - 47 2 --- R.LVPTQRDLYKEVMLENYK.S + Oxidation (M)
139 - 159 2 --- K.ESLTVEACKKPPSLEESLRHR.A
2239.1646 2238.1573 2238.1718
2255.1484 2254.1411 2254.1667 -11.35
2466.2458 2465.2385 2465.2696 -12.61
2706.2365 2706.2307 2707.2307 12.01 137 137 2 R.IDITVARCHIT SIBELSHIMI.A
2526.2585 2525.2512 2525.2380 5.24 384 - 404 2 --- R.ITRHQRVHTGEKPFECSVCGK.V
2745.2256 2744.2183 2744.2507 -11.80 270 - 292 2 --- R.SSLTRHQRIHTGESPYECNQCGK.A
2911.3594 2910.3521 2910.3752 -7.94 278 - 302 2 --- R.IHTGESPYECNQCGKAFSQKSILTR.H
 3280.5635 3279.5562 3279.5619
                                                                    -1.73
                                                                                        2 - 29 2 --- M.AAVSPTRCQDPVTFEDVAVVFTDEEWRR.L
 3321.6216 3320.6143 3320.5931
                                                                   6.39
                                                                                    303 - 330 2 --- R.HQLIHTGRKPYECNECGKAFYGVSSLNR.H
 3427.6099 3426.6026 3426.5973
                                                                      1.55
                                                                                         1 - 29
                                                                                                                                 -.MAAVSPTRCODPVTFEDVAVVFTDEEWRR.L + Oxidation (M)
 No match to: 716.3353, 718.2895, 724.2175, 726.3070, 728.2833, 729.4336, 730.2399, 732.2518, 734.4341, 743.3130, 745.3617,
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                   Mass: 34176 Score: 17
                                                                                Expect: 5.2e+002 Matches: 14
 F-actin-capping protein subunit beta OS=Bos taurus GN=CAPZB PE=1 SV=1
                                                                      ppm Start End Miss Ions Peptide
  Observed
                       Mr (expt)
                                             Mr(calc)
                      1005.5047
                                                                       5.52 189 - 197 1 --- K.SSGRTAHYK.L
                                             1005.4992
1057.6187
                      1056.6114 1056.5927
                                                                       17.7
                                                                                     289 - 297
                                                                                                                               K.NDLVEALKR.K
                                                                  18.9 289 - 297 1 7 K.NDLVEALKR.K
1057.6200 1056.6127 1056.5927
1057.6200 1056.6127 1056.5927 18.9 289 - 297 1 7 K.NDLVEALKR.K

1110.5851 1109.5778 1109.5717 5.53 274 - 283 1 --- R.SVQTFADKSK.Q

1185.6815 1184.6742 1184.6877 -11.36 289 - 298 2 --- K.NDLVEALKRK.Q

1337.6429 1336.6356 1336.6405 -3.66 211 - 224 0 --- K.SGSGTMNLGGSLTR.Q

1568.7620 1567.7547 1567.7267 17.9 125 - 137 0 --- K.LEVEANNAFDQYR.D

1662.8666 1661.8593 1661.8737 -8.64 267 - 281 1 --- K.DLVNGLRSVQTFADK.S

1696.8464 1695.8391 1695.8216 10.3 124 - 137 1 --- R.KLEVEANNAFDQYR.D
1787.8407 1786.8334 1786.8672 -18.90
1932.0068 1930.9995 1930.9571 22.0
                                                                                  2055.0205 2054.0132 2054.0619 -23.69
                                                                                    172 - 188
                                                                                                            2 --- K.KIKGCWDSIHVVEVOEK.S
2745.2256 2744.2183 2744.2381 -7.22
                                                                                    229 - 252
                                                                                                                               K.DETVSDCSPHIANIGRLVEDMENK.I + Oxidation (M)
2911.3594 2910.3521 2910.2879
                                                                                      96 - 121
                                                                                                                                R.DGDSYRSPWSNKYDPPLEDGAMPSAR.L
                                                                      22.1
 No match to: 716.3353, 718.2895, 724.2175, 726.3070, 728.2833, 729.4336, 730.2399, 732.2518, 734.4341, 743.3130, 745.3617,
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 3869.7393, 3876.6707, 3885.6946
 Q0VC77 Mass: 19543 Score: 17 Expect: 5.3e+002 Matches: 9
 CCDC49 protein OS=Bos taurus GN=CCDC49 PE=2 SV=1
| Observed | Mr (expt) | Mr (calc) | ppm | Start | End Miss | Ions | Royalization | Royalization
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                                                                                                                                                                                                                       946 4672
                                                                                                                                                                                                                       986 5463.
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Mass: 40868
                                                                          Expect: 5.3e+002 Matches: 19
                                               Score: 17
  Hsp90 co-chaperone Cdc37 OS=Bos taurus GN=CDC37 PE=1 SV=2
  Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide
                                                                  14.5 205 - 210 0 --- R.SFYGDK.H
22.5 71 - 76 1 --- K.LEEMRK.K
   716.3353
                       715.3281
                                           715.3177
805.4417
                       804.4344
                                           804.4163 22.5
 2685.3098 2684.3025 2684.3500 -17.67 239 - 261 2 --- R.ERLPTPVFWPGEFHGLYSPGDRK.E
 No match to: 718.2895, 724.2175, 726.3070, 728.2833, 729.4336, 730.2399, 732.2518, 734.4341, 743.3130, 745.3617, 747.4360,
 753.3469, 756.3524, 758.3462, 759.3632, 768.3517, 779.4633, 781.3725, 789.3640, 794.3674, 796.3701, 799.2854, 801.4280, 807.4076, 810.3293, 812.3207, 818.3782, 820.3700, 828.4415, 829.4508, 830.4513, 834.3805, 842.5101, 849.3834, 852.4368, 857.4457, 860.4262,
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  1774.9319, 1779.9012, 1781.8585, 1783.8062,
                                                                                   1787.8407, 1809.0583, 1810.0460, 1812.9126, 1829.8527, 1832.8584, 1833.8571,
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  1887.8878, 1897.7863, 1902.9769, 1904.9276,
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 1958.9393, 1959.9655, 1960.9813, 1961.9463, 1967.1549, 1969.9951, 1973.9971, 1975.9755, 1976.9708, 1990.4971, 1990.9373, 1991.4857, 1997.8479, 2001.8607, 2003.8768, 2004.8850, 2007.9500, 2007.9532, 2011.9381, 2012.8951, 2015.9694, 2017.9860, 2018.9740, 2020.1631,
 2023.9482, 2026.9529, 2027.5033, 2029.9972, 2043.5356, 2044.9940, 2055.0205, 2057.0154, 2060.9878, 2066.9939, 2082.9822, 2086.0254, 2088.1033, 2097.0371, 2098.4941, 2102.9954, 2109.0095, 2112.9932, 2114.9707, 2122.9578, 2128.0444, 2130.9980, 2132.0200, 2136.9250,
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 2744.2207, 2745.2256, 2746.2031, 2748.2295, 2755.2700, 2760.2590, 2763.1829, 2771.2400, 2778.1865, 2785.2969, 2786.2561, 2787.2524, 2790.2317, 2792.2166, 2800.3093, 2801.2932, 2803.2415, 2804.2429, 2807.2869, 2808.2227, 2812.2244, 2813.2373, 2817.2632, 2820.2441,
 2824.2598, 2828.2454, 2833.2544, 2843.2900, 2844.3398, 2847.3630, 2851.3313, 2864.3188, 2890.3293, 2896.4324, 2908.3105, 2910.3325,
 2911.3594, 2912.4265, 2925.3323, 2927.4434, 3023.3674, 3025.3865, 3026.3452, 3039.3838, 3042.3542, 3070.3745, 3071.3933, 3086.3984, 3087.3970, 3093.4294, 3101.3831, 3103.4006, 3104.4041, 3110.4143, 3127.4749, 3141.4126, 3143.5066, 3144.5298, 3159.5210, 3219.4854,
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 F1MQW7
                  Mass: 14077 Score: 16
                                                                       Expect: 5.4e+002 Matches: 6
 Uncharacterized protein OS=Bos taurus GN=C15H11orf97 PE=4 SV=2
  Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss
        Tons
        Peptide

        1221.5953
        1220.5880
        1220.6012
        -10.79
        51 - 59
        1 ---
        K.KFLYCEPHK.R

        1526.7924
        1525.7851
        1525.7736
        7.54
        3 - 17
        0 ---
        M. REEEAAAVVTVPQAGR.D

        1682.8409
        1681.8336
        1681.8747
        -24.44
        2 - 17
        1 ---
        M. REEEAAAVVTVPQAGR.D

        2760.2590
        2759.2517
        2759.2682
        -5.96
        18 - 46
        1 ---
        R. DGEQPGPPAGLGCAAVRGEPGGGPQESR.K

        3159.5210
        3158.5137
        3158.5415
        -8.79
        3 - 34
        1 ---
        R. EEEAAAVVTVPQAGRDEQPGPPAGLGCAAVR.G

        3462.6301
        3461.6228
        3461.6780
        -15.93
        1 - 34
        2 ---
        - MREEEAAAVVTVPQAGRDEQPGPPAGLGCAAVR.G
        Oxidation (M)

        No match to:
        716.3353, 718.2895, 724.2175, 724.2175, 726.3070, 728.2833, 729.4336, 730.2399, 732.2518, 734.4341, 743.3130, 745.3617, 747.4360, 753.3469, 759.3524, 758.3462, 759.3632, 758.3612, 778.3637, 779.4633, 781.3725, 789.3640, 794.3674, 796.3701, 799.2854.80

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                                                                                                                                                                                                                                938 5062
 983.6221, 986.5463, 988.4922, 993.5123, 995.4512, 998.5833, 1000.5594, 1006.5120, 1007.5640, 1021.5762, 1024.5542, 1031.5300, 1034.5703, 1037.5466, 1041.5637, 1043.5297, 1044.5375, 1045.5594, 1046.6058, 1054.5287, 1056.5575, 1057.6187, 1057.6200, 1068.5790,
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 1359.7013, 1361.7147, 1364.7118, 1365.6619, 1366.6665, 1372.6228, 1375.6693, 1382.6771, 1383.7347, 1390.7089, 1393.8007, 1397.7449, 1403.7434, 1410.7849, 1416.7737, 1420.7114, 1423.7096, 1434.7847, 1436.7469, 1442.8257, 1445.7913, 1456.7555, 1457.7440, 1467.7560,
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   1655.8147, 1657.8483, 1658.8953, 1660.8379, 1662.8666, 1664.8490, 1666.7892, 1679.8091, 1680.8357, 1696.8464, 1698.8180, 1701.8243,
  1702.8386, 1707.8938, 1710.8904, 1714.7905, 1716.8219, 1717.9052, 1718.9094, 1721.8976, 1722.9003, 1724.9030, 1728.8840, 1730.8910, 1734.1617, 1738.8267, 1739.8165, 1741.8934, 1743.9005, 1747.9127, 1758.4807, 1758.8918, 1761.8734, 1765.8154, 1772.0012, 1774.9300,
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  1887.8878, 1897.7863, 1902.9769, 1904.9276, 1908.8986, 1920.9131, 1923.9126, 1928.0443, 1932.0068, 1936.9510, 1938.0171, 1947.9314,
  1958.9393, 1959.9655, 1960.9813, 1961.9463, 1967.1549, 1969.9951, 1973.9971, 1975.9755, 1976.9708, 1990.4971, 1990.9373, 1991.4857, 1997.8479, 2001.8607, 2003.8768, 2004.8850, 2007.9500, 2007.9532, 2011.9381, 2012.8951, 2015.9694, 2017.9860, 2018.9740, 2020.1631,
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 E1B9E7
                  Mass: 17216 Score: 16
                                                                                     Expect: 5.4e+002 Matches: 10
 Uncharacterized protein OS=Bos taurus GN=LOC783279 PE=4 SV=2

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss
        Ios
        Peptide

        905.4763
        904.4690
        904.4510
        19.9
        50 - 56
        0 ---
        K.MPICLQK.K + Oxidation (M)

        1150.6226
        1149.6153
        1149.5924
        19.9
        1 - 10
        2 ---
        -.MGSRTLKDSR.L

1150.6226 1149.6153 1149.5924 19.9 1 - 10 2 --- - MCSGRTIKDSR.L

1372.6228 1371.6155 1371.6313 -11.54 97 - 107 1 --- R.DCSQRVDHLSR.N

1457.7440 1456.7367 1456.7133 16.1 79 - 89 1 --- K.DNFNMYLQKLR.V + Oxidation (M)

2003.8768 2002.8695 2002.8408 14.3 120 - 138 0 --- K.DNFNMYLQKLR.V + Oxidation (M)

2174.0508 2173.0435 2173.0408 1.24 102 - 119 1 --- R.VDHLSRNMLCAWQELGTK.G + Oxidation (M)

2255.1484 2254.1411 2254.1389 0.97 90 - 107 2 --- R.VVQITWRDCSQRVDHLSR.N

2720.2839 2719.2766 2719.2378 14.3 120 - 144 2 --- K.GNCQGDSGAPMVCTIHGSR.R

2804.2429 2803.2356 2803.2952 -21.26 97 - 119 2 --- R.DCSQRVDHLSRNMLCAWQELGTK.G

2820.2441 2819.2368 2819.2901 -18.91 97 - 119 2 --- R.DCSQRVDHLSRNMLCAWQELGTK.G

2820.2441 2819.2368 2819.2901 -18.91 97 - 119 2 --- R.DCSQRVDHLSRNMLCAWQELGTK.G + Oxidation (M)

No match to: 716.3353, 718.2895, 724.2175, 726.3070, 728.2833, 729.4336, 730.2399, 732.2518, 734.4341, 743.3130, 745.3617, 747.4360, 750.3459, 756.3524, 758.3462, 759.3632, 768.3517, 779.4633. 781.3725, 789.3640, 794.374, 799.2854, 80
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  898.4610, 900.5174, 907.4251, 912.5086, 914.4942, 920.4296, 922.4855, 928.4565, 929.4484, 933.4327, 936.4976, 938.5062, 944.4982, 946.4672, 949.5244, 950.5168, 957.5792, 961.5109, 965.5151, 967.4963, 972.5023, 974.4913, 976.5255, 978.5352, 981.5225, 983.6221,
  986.5463, 988.4922, 993.5123, 995.4512, 998.5833, 1000.5594, 1006.5120, 1007.5640, 1021.5762, 1024.5542, 1031.5300, 1034.5703, 1037.5466, 1041.5637, 1043.5297, 1044.5375, 1045.5594, 1046.6058, 1054.5287, 1056.5575, 1057.6187, 1057.6200, 1068.5790, 1074.6162, 1076.6190, 1082.6056, 1105.5938, 1110.5851, 1113.5701, 1118.5687, 1120.6050, 1122.5892, 1123.6047, 1126.6241, 1128.5618, 1130.5756,
  1135.5951, 1137.5647, 1143.5592, 1145.6373, 1148.6318, 1149.6230, 1156.5652, 1157.5676, 1159.5890, 1160.5966, 1169.5873, 1177.6421, 1178.6371, 1180.6443, 1182.6539, 1184.6431, 1185.6815, 1193.6090, 1194.6001, 1209.6238, 1213.7180, 1216.7178, 1221.5953, 1227.6459,
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  1483.7579, 1484.7480, 1487.7660, 1488.7366, 1493.7556, 1500.7393, 1500.7400, 1503.7648, 1504.7708, 1514.7063, 1516.7281, 1519.7705,
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                                                        Score: 16
                                                                                       Expect: 5.7e+002 Matches: 11
  Uncharacterized protein OS=Bos taurus PE=4 SV=1

        Observed
        Mr(expt)
        Mr(calc)
        ppm
        Start
        End Miss Ions
        Peptide

        1514.7063
        1513.6990
        1513.7269
        -18.40
        76 - 88
        0 ---
        R.MPEPCQIPVINTK.T

        1530.7058
        1529.6985
        1529.7218
        -15.22
        76 - 88
        0 ---
        R.MPEPCQIPVINTK.T + Oxidation (M)

 1514.7063 1513.6990 1513.7269
 1530.7058 1529.6985 1529.7218 -15.22
```

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1608.8051 1607.7978 1607.8090 -6.93 178 - 191 0 --- R.NQIVHEVMALPADR.W + Oxidation (M) 1833.8571 1832.8498 1832.8913 -22.64 74 - 88 1 --- K.FRMPEPCQIPVTNTK.T + Oxidation (M) 2289.0901 2288.0828 2288.1082 -11.09 254 - 273 0 --- R.ALFPCQEPPVAMSTWQATVR.A
 2288.0828 2288.1082 - 11.09 254 - 273 0 --- R.ALFPCQEPPVAMSIWQATVK.A
2576.1792 2575.1719 2575.1382 13.1 105 - 129 2 --- R.SCHTSGKDGNHDNQEQASGISSSK.Y
2681.2705 2680.2632 2680.2664 -1.18 230 - 253 0 --- R.SVTWTSDQSGRPCVYTVGSPINNR.A
3104.4041 3103.3968 3103.3396 18.5 130 - 155 0 --- K.YCCDTGNHGSEEFLLVLDCCDLSVLK.V
3236.5574 3235.5501 3235.5642 -4.35 274 - 304 0 --- R.AAASFVVLMSGENSAKPTQLQEGTVHVFCAS.-
3347.5515 3346.5442 3346.6036 -17.75 76 - 104 2 --- R.MPEPCQIPVINTKTFSSKIGYNDFVICGK.G + Oxidation (M)
3641.7090 3640.7017 3640.6266 20.6 57 - 88 2 --- R.SSSTEVACPSESNEACKFRMPEPCQIPVINTK.T
   No match to: 716.3353, 718.2895, 724.2175, 726.3070, 728.2833, 729.4336, 730.2399, 732.2518, 734.4341, 743.3130, 745.3617,
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                                                                                                                                                                                                                                                                                      894 4923
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   3735.7100, 3751.7539, 3830.8091, 3869.7393, 3876.6707, 3885.6946
  F1MR52
                    Mass: 116761 Score: 16
                                                                                            Expect: 5.7e+002 Matches: 43
   Uncharacterized protein OS=Bos taurus PE=4 SV=2
                                                                            ppm Start End Miss Ions Peptide
    Observed Mr(expt) Mr(calc)
    972 5023
                             971.4950
                                                      971.4858
                                                                                  9.41 400 - 408 0 --- R.ASGLTQHMK.T
988.4922 987.4849 987.4808 4.21 400 - 408 0 --- R.ASGLTQHMK.T + Oxidation (M)
1044.5375 1043.5302 1043.5400 -9.36 780 - 788 0 --- K.THTGERPFK.C
1056.5575 1055.5502 1055.5764 -24.77 808 - 816 0 --- K.THTGERPFK.C
1336.7301 1335.7228 1335.6895 24.9 378 - 389 1 --- R.HLQSHTGEKTAK.C
1382.6771 1381.6698 1381.6482 15.6 134 - 144 2 --- R.DQPYKCKVCGK.H
1410.7849 1409.7776 1409.7555 15.7 879 - 890 0 --- K.TFTTSSYLIIHK.R
1434.7847 1433.7774 1433.7813 -2.69 238 - 249 1 --- K.HMKHHTGEKPIK.C + Oxidation (M)
1483.7579 1482.7506 1482.7732 -15.21 947 - 958 2 --- K.YFRAHTGGKTFK.C
1493.7556 1492.7483 1492.7457 1.79 396 - 408 1 --- R.HMKTHTGEKPYK.C + Oxidation (M)
1500.7393 1499.7320 1499.7303 1.14 350 - 361 1 --- R.HMKTHTGEKPYK.C + Oxidation (M)
1500.7400 1499.7327 1499.7303 1.61 350 - 361 1 --- R.HMKTHTGEKPYK.C + Oxidation (M)
1522.7722 1521.7649 1521.7610 2.61 739 - 751 1 --- K.TFTRSSGLIEHMK.T + Oxidation (M)
1526.7924 1525.7851 1525.7677 11.4 851 - 863 0 --- K.TFTRSSGLIEHMK.T + Oxidation (M)
1555.7836 1554.7763 1554.7388 24.1 986 - 997 0 --- K.TFTRSSGLIEHMK.T + Oxidation (M)
1555.7836 1564.7763 1554.7388 24.1 986 - 997 0 --- K.TFTRSSGLIEHMK.T + Oxidation (M)
1664.8490 1663.8417 1663.8828 -24.69 480 - 493 2 --- K.TFTRSSGLIEHMK.T + Oxidation (M)
1582.8409 1681.8336 1681.8477 - 8.39 943 - 955 2 --- K.ECGKTFRLSSYLR.V
1664.8490 1663.8417 1663.8828 -24.69 480 - 493 2 --- K.ECGKTFRLSSYLR.V
1664.8490 1663.8417 1663.8828 -24.69 480 - 493 2 --- K.ETGKTRSSGLTHMK.T + OXIDATION (M)
1582.8515 1780.8512 1780.8930 -23.47 208 - 222 0 --- R.LIEHMNTHTGEKPFK.C
1783.8657 1837.8604 1837.8451 8.34 158 - 172 2 --- K.THTGEKPFK.C
1838.8677 1837.8604 1837.8451 8.34 158 - 172 2 --- K.THTGEKPFK.C
1838.8677 1837.8604 1837.8451 8.34 158 - 172 2 --- K.THTGEKPFK.CK.C
1838.8677 1837.8604 1837.8451 8.34 158 - 172 2 --- K.THTGEKPFK.CK.C
1848.86805 1886.9210 -21.45 434 - 448 2 --- R.ASGSRJADHURTHANN. H.
    988.4922
                           987.4849 987.4808
                                                                               4.21
                                                                                                400 - 408 0 --- R.ASGLTOHMK.T + Oxidation (M)
  1044.5375 1043.5302 1043.5400 -9.36
                                                                                                780 - 788 0 --- K.THTGEKPFK.C
                                                                                               434 - 448 2 --- K.HFRTHTGEKPFKCDK.C
  1887.8878 1886.8805 1886.9210 -21.45
  1960.9813 1959.9740 1960.0126 -19.69
                                                                                                    5 - 23
                                                                                                                                                  R.ASIOSASLOAHVPTHTANK.H
  2029.9972 2028.9899 2029.0051 -7.48
                                                                                                400 - 417 1 --- R.ASGLTQHMKTHTGEKPYK.C + Oxidation (M)
  2097.0371 2096.0298 2096.0287
                                                                                 0.56
                                                                                                  24 - 41
                                                                                                                            2 --- K.HYIYEDSGKVSDATLSRR.Q
  2112.9932 2111.9859 2111.9477
                                                                                 18.1
                                                                                                                                               K.CYRCEDSGKVSTASLSHR.O
  2140.0063 2138.9990 2138.9626
                                                                                 17.0
                                                                                                612 - 629
                                                                                                                                                 K.THTGEKPFQCDTCGKAFR.F
                                                                                                805 - 822 2 --- R.HMKIHTGEKPFKCDTCGK.A
368 - 386 2 --- K.GFGFSFFLRRHLQSHTGEK.
  2174.0508 2173.0435 2173.0231
                                                                                 9.40
  2251.1108 2250.1035 2250.1447 -18.29
                                                                                                                                                 K.GFGFSFFLRRHLOSHTGEK.T
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2271.1211 2270.1138 2270.0573 24.9 780 - 798 2 --- K.THTGEKPFKCDTCGKTFTR.S

2286.0986 2285.0913 2285.1409 -21.69 182 - 200 2 --- R.VHSQIHTGIKIYKCQECGK.T

2573.2495 2572.2422 2572.3009 -22.80 909 - 930 2 --- K.RFANSSPFAIHKCIHTGEIPYK.C

2748.2295 2747.2222 2747.2829 -22.10 743 - 766 2 --- R.SSGLIEHMKTHTGEKPFKCDTCGK.T

2847.3630 2846.3557 2846.3956 -14.01 808 - 832 2 --- K.IHTGEKPFKCDTCGKAFASSSHIIR.H

3025.3865 3024.3792 3024.4434 -21.21 297 - 323 2 --- R.TPTGEKPFKCDTCGKFVQSSGLSQHK.K

3280.5635 3279.5562 3279.5523 10.3 195 - 222 2 --- K.CQECGKTFTCSSRLIEHMNTHTGEKPFK.C

3347.5515 3346.5442 3346.4958 14.5 705 - 732 2 --- K.CGECGKDFKHSLPFNIHMGTHTGEQPYK.C

3735.7100 3734.7027 3734.7790 -20.42 238 - 268 2 --- K.HMKIHTGEKPLKCDICGTTFTQTSYLTQHMR.T + Oxidation (M)

3751.7539 3750.7466 3750.7739 -7.27 238 - 268 2 --- K.HMKIHTGEKPLKCDICGTTFTQTSYLTQHMR.T + 2 Oxidation (M)
  No match to: 716.3353, 718.2895, 724.2175, 726.3070, 728.2833, 729.4336, 730.2399, 732.2518, 734.4341, 743.3130, 745.3617, 747.4360, 753.3469, 756.3524, 758.3462, 759.3632, 768.3517, 779.4633, 781.3725, 789.3640, 794.3674, 796.3701, 799.2854, 801.4280, 805.4417, 807.4076, 810.3293, 812.3207, 818.3782, 820.3700, 828.4415, 829.4508, 830.4513, 834.3805, 842.5101, 849.3834, 852.4368,
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  2088.1033, 2098.4941, 2102.9954, 2109.0095, 2114.9707, 2122.9578, 2128.0444, 2130.9980, 2132.0200, 2136.9250, 2143.0237, 2144.0559, 2145.0781, 2148.0483, 2153.0049, 2153.9973, 2175.0435, 2178.0483, 2188.0610, 2191.0464, 2192.0427, 2199.1150, 2205.0615, 2211.1067,
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  2540.2451, 2542.2578, 2545.2258, 2550.2373, 2561.6841, 2562.1826, 2562.6890, 2576.1792, 2646.9758, 2659.2144, 2661.1409, 2662.0120,
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   3042.3542, 3070.3745, 3071.3933, 3086.3984, 3087.3970, 3093.4294, 3101.3831, 3103.4006, 3104.4041, 3110.4143, 3127.4749, 3141.4126,
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  3554.5630, 3558.6460, 3573.6545, 3589.6523, 3608.6155, 3624.6685, 3630.5806, 3641.7090, 3651.7944, 3667.7266, 3683.6980, 3691.7681, 3707.7200, 3714.5493, 3715.6206, 3719.6914, 3720.7048, 3723.7041, 3830.8091, 3869.7393, 3876.6707, 3885.6946
 E1B705
                                                    Score: 16
                                                                                     Expect: 5.8e+002 Matches: 18
  Uncharacterized protein OS=Bos taurus GN=RASSF9 PE=4 SV=2

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss Ions
        Peptide

        734.4341
        733.4269
        733.4156
        15.3
        325 - 331
        1
        ---
        K.SMKAGLK.I

920.4296 919.4223 919.4433 -22.84 255 - 261 0 --- R.QMLEDLR.E + Oxidation (M)
1082.6056 1081.5983 1081.6244 -24.08 151 - 159 2 --- K.TLPPDKQRR.I
1145.6373 1144.6300 1144.6339 -3.40 283 - 292 1 --- K.SSAETEKEVK.S
1351.6969 1350.6896 1350.6642 18.8 140 - 150 0 --- K.LWELSPANYMK.T
1403.7434 1402.7361 1402.7489 -9.14 203 - 213 2 --- K.RMKELDLEIEK.C
1470.7466 1469.7393 1469.7435 -2.87 342 - 353 1 --- K.EIKYSDSLLQMK.A + Oxidation (M)
1761.8734 1760.8661 1760.8556 5.98 102 - 116 0 --- K.AWGDEQPMMQFVLVK.A
1833.8571 1832.8498 1832.8905 -22.18 384 - 400 0 --- K.ESVYTSNGVVSPFTQR.I
1969.9951 1968.9878 1968.9905 -1.34 262 - 277 1 --- R.ESNGTVQLEERLTYYR.K
2018.9740 2017.9667 2018.0069 -19.91 382 - 400 1 --- R.GKESEVPTSNGVVSPFTQR.I
2145.0781 2144.0708 2144.0572 6.37 206 - 222 2 --- K.ELDLEIEKCEAKFHLDR.V
2175.0435 2174.0362 2174.0637 -12.64 255 - 272 1 --- R.QMLEDLRESNGTVQLEERLT + Oxidation (M)
2055.0615 2204.0542 2204.1088 -24.78 99 - 116 1 --- K.LWKANGCDEQPNMQFVLVK.A + Oxidation (M)
2696.2695 2695.2622 2695.2357 9.85 17 - 38 2 --- R.SPTKEMDSEEKEIVVWVCQEEK.I + Oxidation (M)
2790.2317 2789.2244 2789.2490 -8.81 223 - 246 0 --- R.VENNGENYQDAYLMPSFSEVEQK.L
3735.7100 3734.7027 3734.6378 17.4 401 - 435 0 --- R.VENNGENYQDAYLMPSFSEVEQK.L
3735.7100 3785.6634 3875.7056 -10.89 293 - 327 2 --- K.SVCMEINEDAEGAAASELESSNLESVKCDLEKKNA.A + OXIDATION (M)
3876.6707 3875.6634 3875.7056 -10.89 293 - 327 2 --- K.SVCMEINEDAEGAAASELESSNLESVKCDLEKKNA.A + OXIDATION (M)
3876.6707 3875.6634 3875.7056 -10.89 293 - 327 2 --- K.SVCMEINEDAEGAAASELESSNLESVKCDLEKKNA.A + OXIDATION (M)
3876.6707 3875.6634 3875.7056 -10.89 293 - 327 2 --- K.SVCMEINEDAEGAAASELESSNLESVKCDLEKKNK.A + OXIDATION (M)
                                                                                           255 - 261
                           919.4223
                                                   919.4433 -22.84
                                                                                                                                        R.QMLEDLR.E + Oxidation (M)
                                                                                                                                        K.SVCMEINEDAEGAAASELESSNLESVKCDLEKSMK.A + Oxidation (M)
 No match to: 716.3353, 718.2895, 724.2175, 726.3070, 728.2833, 729.4336, 730.2399, 732.2518, 743.3130, 745.3617, 747.4360, 753.3469, 756.3524, 758.3462, 759.3632, 768.3517, 779.4633, 781.3725, 789.3640, 794.3674, 796.3701, 799.2854, 801.4280, 805.4417, 807.4076, 810.3293, 812.3207, 818.3782, 820.3700, 828.4415, 829.4508, 830.4513, 834.3805, 842.5101, 849.3834, 852.4368, 857.4457, 860.4262, 868.4412, 870.4462, 873.4370, 877.4166, 880.4280, 882.4470, 883.4816, 887.4295, 889.4857, 891.4872, 894.4923, 898.4610,
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  3691.7681, 3707.7200, 3714.5493, 3715.6206, 3719.6914, 3720.7048, 3723.7041, 3751.7539, 3830.8091, 3869.7393, 3885.6946
                                                                                             Expect: 5.8e+002 Matches: 12
  Uncharacterized protein OS=Bos taurus GN=CEBPE PE=4 SV=1
Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide
  800.4262, 868.4412, 870.4462, 873.4370, 877.4166, 880.4280, 882.4470, 883.4816, 887.4295, 889.4857, 891.4872, 894.4923, 898.4610, 900.5174, 905.4763, 907.4251, 912.5086, 914.4942, 920.4296, 922.4855, 928.4565, 929.4484, 933.4327, 936.4976, 938.5062, 944.4982, 946.4672, 949.5244, 950.5168, 957.5792, 961.5109, 965.5151, 967.4963, 972.5023, 974.4913, 976.5255, 978.5352, 981.5225, 983.6221, 986.5463, 988.4922, 993.5123, 995.4512, 1000.5594, 1006.5120, 1007.5640, 1021.5762, 1024.5542, 1031.5300, 1034.5703, 1037.5466, 1041.5637, 1043.5297, 1044.5375, 1045.5594, 1046.6058, 1054.5287, 1056.5575, 1068.5790, 1074.6162, 1076.6190, 1082.6056, 1105.5938,
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  Q0P584
                                                                                             Expect: 5.9e+002 Matches: 11
                   Mass: 23768
                                                        Score: 16
  Uncharacterized protein OS=Bos taurus GN=ZMAT2 PE=2 SV=1
   Observed Mr(expt) Mr(calc) ppm Start
                                                                                                                 End Miss Ions Peptide
   936.4976
                            935.4903
                                                       935.4746
                                                                                   16.9 132 - 138 2 --- K.KMEEKQK.D + Oxidation (M)
 1074.6162 1073.6089 1073.6193 -9.66 117 - 125 2 --- R.STLDQVKKR.F
1229.6874 1228.6801 1228.6676 10.2 47 - 55 2 --- R.ELLRHRDYK.V
1320.6364 1319.6291 1319.6391 -7.52 146 - 155 2 --- R.MKELREEEEK.A
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3023.3674 3022.3601 3022.3909 -10.17 65 - 90 1 --- K.TIVITKTTPQSEMGGYYCNVCDCVVK.D 3039.3838 3038.3765 3038.3858 -3.05 65 - 90 1 --- K.TIVITKTTPQSEMGGYYCNVCDCVVK.D + Oxidation (M) 3141.4126 3140.4053 3140.3703 11.2 169 - 196 2 --- K.TRAEEDLIFEEDDEMAAVMGFSGFGSTK.K + Oxidation (M) 3321.6216 3320.6143 3320.5914 6.92 62 - 90 2 --- K.LGKTIVITKTTPQSEMGGYYCNVCDCVVK.D
  No match to: 716.3353, 718.2895, 724.2175, 726.3070, 728.2833, 729.4336, 730.2399, 732.2518, 734.4341, 743.3130, 745.3617, 747.4360, 753.3469, 756.3524, 758.3462, 759.3632, 768.3517, 779.4633, 781.3725, 789.3640, 794.3674, 796.3701, 799.2854, 801.4280, 805.4417, 807.4076, 810.3293, 812.3207, 818.3782, 820.3700, 828.4415, 829.4508, 830.4513, 834.3805, 842.5101, 849.3834, 852.4368,
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  2787.2524, 2790.2317, 2792.2166, 2800.3093, 2801.2932, 2803.2415, 2804.2429, 2807.2869, 2808.2227, 2812.2244, 2817.2632, 2820.2441, 2824.2598, 2828.2454, 2833.2544, 2843.2900, 2844.3398, 2847.3630, 2851.3313, 2864.3188, 2890.3293, 2896.4324, 2908.3105, 2910.3325,
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  3735.7100, 3751.7539, 3830.8091, 3869.7393, 3876.6707, 3885.6946
  F1MH60
                  Mass: 51585
                                                       Score: 16
                                                                                      Expect: 6.1e+002 Matches: 18
  Uncharacterized protein OS=Bos taurus GN=SPRED1 PE=4 SV=2
                                                                      ppm Start End Miss Ions Peptide
Mr(calc)
   Observed Mr(expt)
 2896.4324 2895.4251 2895.4259 -0.28 19 - 213 1 --- R.SQANQINESHEGENTQRKSINGGR.Q
2912.4265 2911.4192 2911.4209 -0.56 19 - 46 1 --- R.AVVMTRDDSSGGWLPLGGSGLSCVTVFK.V + Oxidation (M)
3093.4294 3092.4221 3092.3782 14.2 262 - 287 2 --- R.AVVMTRDDSSGGWLPLGGSGLSCVTVFK.V + Oxidation (M)
3144.5298 3143.5225 3143.5768 -17.25 399 - 423 1 --- K.FCLRWLALVALSFIVPCMCCYVPLR.M
3869.7393 3868.7320 3868.7432 -2.90 119 - 154 1 --- R.AIEDISQGCPSFKNEAEGTEDNLQAAEEDTSSSLVK.D
  No match to: 716.3353, 718.2895, 724.2175, 726.3070, 728.2833, 729.4336, 730.2399, 732.2518, 734.4341, 743.3130, 745.3617, 747.4360, 753.3469, 756.3524, 758.3462, 759.3632, 768.3517, 779.4633, 781.3725, 789.3640, 794.3674, 796.3701, 799.2854, 801.4280, 805.4417, 807.4076, 810.3293, 812.3207, 818.3782, 820.3700, 828.4415, 829.4508, 830.4513, 834.3805, 842.5101, 849.3834, 857.4457,
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   1323.6815, 1326.6937, 1328.6799, 1333.7430, 1336.7301, 1337.6429, 1349.6729, 1351.6969, 1353.6891, 1356.6255, 1358.6919, 1359.7013,
   1361.7147, 1364.7118, 1366.6965, 1372.6228, 1375.6693, 1382.6771, 1383.7347, 1390.7089, 1393.8007, 1397.7449, 1403.7434, 1410.7849,
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                                                                                                                                                                                                                                                  1781 8585
  1787.8407, 1809.0583, 1810.0460, 1812.9126, 1829.8527, 1832.8584, 1833.8571, 1834.8650, 1836.8618, 1838.8677, 1845.8363, 1847.8600,
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 O3ZCH0
                   Mass: 73981
                                               Score: 16
                                                                              Expect: 6.2e+002 Matches: 30
  Stress-70 protein, mitochondrial OS=Bos taurus GN=HSPA9 PE=2 SV=1
  Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide
                                                                                  285 - 291
                                                                -14.17
                                                                                                                             R.HIVKEFK.R
   900.5174
                        899.5101
                                              899.5229
 1045.5594 1044.5521 1044.5314
                                                                                    647 - 654
                                                                                                                             K.LFEMAYKK.M + Oxidation (M)
                                                                19.9
                                                                                  301 - 309 1 --- K.DNMALQRVR.E + Oxidation (M)
1 - 11 1 --- -.MISASRAAVSR.F
 1118.5687 1117.5614 1117.5662
                                                                  -4.28
 1148.6318 1147.6245 1147.6131 9.92
1938.0171 1937.0098 1937.0265 -8.60
2088.1033 2087.0960 2087.0971 -0.51
                                                                                  1 - 19 2 --- -.MISASRAAVSRFVGTAASR.G
536 - 555 2 --- K.DKGTGREQQIVIQSSGGLSK.D
2109.0095 2108.0022 2108.0300 -13.18 26 - 43 1 --- R.HQDGWNGLSHEAFRIVSR.R 2265.0837 2264.0764 2264.1311 -24.16 26 - 44 2 --- R.HQDGWNGLSHEAFRIVSRR.D
2286.086 2285.0913 2285.1321 -17.86 576 - 595 2 --- K.RUDUSWNGLSHEAFKIVSKR.U
2434.2429 2433.2356 2433.2057 12.3 542 - 563 1 --- K.EQUIVIQSSGLSKDJENMYK.N + Oxidation (M)
2438.2283 2437.2210 2437.1829 15.7 369 - 391 1 --- K.AMQDAEVSKSDIGEVILVGGMTR.M + 2 Oxidation (M)
3127.4749 3126.4676 3126.5325 -20.77 44 - 73 2 --- R.RDYASEAIKGAVVGIDLGTTNSCVAVMEGK.Q + Oxidation (M)
3127.4749 3126.4676 3126.5325 -20.77 44 - 73 2 --- R.RDYASEAIKGAVVGIDLGTTNSCVAVMEGK.Q + Oxidation (M)
3159.5210 3158.5137 3158.5780 -20.35 160 - 187 2 --- K.LYSPSQIGAFVLMKMKETAENYLGHTAK.N + 2 Oxidation (M)
3236.5574 3235.5501 3235.5887 -11.92 362 - 391 2 --- R.TIAPCQKAMQDAEVSKSDIGEVILVGGMTR.M + 2 Oxidation (M)
3651.7944 3650.7871 3650.7742 3.53 317 - 348 2 --- K.CELSSSVQTDINLPYLTMDASGPKHLNMKLTR.A + 2 Oxidation (M)
3691.7681 3690.7608 3690.6851 20.5 579 - 610 2 --- R.VEAVNMAEGIIHDTETKMEFFKDQLPADECNK.L
3707.7200 3706.7127 3706.6800 8.82 579 - 610 2 --- R.VEAVNMAEGIIHDTETKMEFFKDQLPADECNK.L + Oxidation (M)
3723.7041 3722.6968 3722.6750 5.87 579 - 610 2 --- R.VEAVNMAEGIIHDTETKMEFFKDQLPADECNK.L + 2 Oxidation (M)
No.match to 116.3353 319.3885 3724.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324.6355 324
 3723.7041 3722.6968 3722.6750 5.87 579 - 610 2 --- R.VEAVMAREGIIHDTETKMEEFKDQLPADECNK.L + 2 0xidation (M)

No match to: 716.3353, 718.2895, 724.2175, 726.3070, 728.2833, 729.4336, 730.2399, 732.2518, 734.4341, 743.3130, 745.3617, 747.4360, 753.3469, 756.3524, 758.3462, 759.3632, 768.3517, 779.4633, 781.3725, 789.3640, 794.3674, 796.3701, 799.2854, 801.4280, 805.4417, 807.4076, 810.3293, 812.3207, 818.3782, 820.3700, 828.4415, 829.4508, 830.4513, 834.3805, 842.5101, 849.3834, 852.4368, 857.4457, 860.4262, 868.4412, 870.4462, 873.4370, 877.4166, 880.4280, 882.4470, 883.4816, 887.4295, 889.4857, 891.4872, 894.4923, 898.4610, 905.4763, 907.4251, 912.5086, 914.4942, 920.4296, 922.4855, 928.4565, 929.4484, 933.4327, 936.4976, 938.5062, 944.4982, 946.4672, 949.5244, 950.5168, 957.5792, 961.5109, 965.5151, 967.4963, 972.5023, 974.4913, 976.5255, 978.5352, 981.5225, 983.6221, 865.463, 988.4922, 993.5123, 995.4512, 998.5833, 1000.5594, 1006.5120, 1007.5640, 1021.5762, 1024.5542, 1031.5300, 1034.5703, 1037.5466, 1041.5637, 1043.5297, 1044.5375, 1046.6058, 1054.5287, 1056.5575, 1057.6187, 1057.6200, 1068.5709, 1074.6162, 1076.6190, 1082.6056, 1105.5938, 1110.5851, 1113.5701, 1120.6050, 1122.5892, 1123.6047, 1126.6241, 1128.5618, 1130.5756, 1135.5951, 1131.55951, 1137.5647
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                                                                Score: 16
                                                                                                      Expect: 6.2e+002 Matches: 9
 Myosin regulatory light chain 2, skeletal muscle isoform OS=Bos taurus GN=MYLPF PE=2 SV=1
No match to: 716.3353, 718.2895, 724.2175, 726.3070, 728.2833, 729.4336, 730.2399, 732.2518, 734.4341, 743.3130, 745.3617,
  No match to: 16.3333, 716.3353, 724.213, 726.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3374, 788.3
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                                                                                                     Expect: 6.2e+002 Matches: 7
  Uncharacterized protein OS=Bos taurus GN=FGF12 PE=3 SV=1

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss
        Ions
        Peptide

        1057.6187
        1056.6114
        1056.5927
        17.7
        1 - 9
        1 ---
        -.srlsepQLK.G

        1057.6200
        1056.6127
        1056.5927
        18.9
        1 - 9
        1 ---
        -.srlsepQLK.G

1057.6200 1056.6127 1056.5927 18.9 1 - 9 1 --- -.SRLSEPQLK.G
1761.8734 1760.8661 1760.8920 -14.69 10 - 24 0 --- K.GIVTMVFSQQGYFLR.M + Oxidation (M)
1880.9026 1879.8953 1879.8774 9.53 61 - 77 0 --- K.ASLYYAMNGEGYLYSSR.S
2896.4324 2895.4251 2895.3936 10.9 10 - 35 1 --- K.GIVTMVFSQQGYFLRMYPDGAVDGTK.D + Oxidation (M)
2912.4265 2911.4192 2911.3885 10.6 10 - 35 1 --- K.GIVTMVFSQQGYFLRMYPDGAVDGTK.D + 2 Oxidation (M)
3691.7681 3690.7608 3690.8426 -22.16 3 - 35 2 --- R.LSEPQLKGIVTMVFSQQGYFLRMYPDGAVDGTK.D + Oxidation (M)
 No match to: 716.3353, 718.2895, 724.2175, 726.3070, 728.2833, 729.4336, 730.2399, 732.2518, 734.4341, 743.3130, 745.3617, 747.4360, 753.3469, 756.3524, 758.3462, 759.3632, 768.3517, 779.4633, 781.3725, 789.3640, 794.3674, 796.3701, 799.2854, 801.4280, 805.4417, 807.4076, 810.3293, 812.3207, 818.3782, 820.3700, 828.4415, 829.4508, 830.4513, 834.3805, 842.5101, 849.3834, 852.4368,
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 3715.6206, 3719.6914, 3720.7048, 3723.7041, 3735.7100, 3751.7539, 3830.8091, 3869.7393, 3876.6707, 3885.6946
                                                                      Expect: 6.4e+002 Matches: 6
 Uncharacterized protein OS=Bos taurus PE=4 SV=1
Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide
 1145.6373, 1148.6318, 1149.6230, 1150.6226, 1156.5652, 1157.5676, 1160.5966, 1169.5873, 1177.6421, 1178.6371, 1180.6443, 1182.6539, 1184.6431, 1185.6815, 1193.6090, 1194.6001, 1209.6238, 1213.7180, 1216.7178, 1221.5953, 1227.6459, 1229.6874, 1234.6899, 1238.2251,
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 3714.5493, 3715.6206, 3719.6914, 3720.7048, 3723.7041, 3735.7100, 3751.7539, 3830.8091, 3869.7393, 3876.6707, 3885.6946
                 Mass: 30659
                                            Score: 16
                                                                     Expect: 6.4e+002 Matches: 13
 RASD family, member 2 OS=Bos taurus GN=RASD2 PE=2 SV=1 \,

        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss Ions
        Peptide

        728.4263
        728.4432
        -23.21
        115 - 120
        0 ---
        K.QILEVK.S

  Observed

        Observed
        Mr (exp., 728.4263)
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1908.8986 1907.8913 1907.8797 6.07 176 - 191 0 --- K.NTNVDEMFYVLFSMAK.L
2068.9661 2067.9588 2067.9645 -2.76 175 - 191 1 --- K.KNTNVDEMFYVLFSMAK.L + 2 Oxidation (M)
2550.2373 2549.2300 2549.1791 20.0 64 - 85 1 --- R.GDMYQLDILDTSGNHPFPAMRR.L + Oxidation (M)
2685.3098 2684.3025 2684.2640 14.4 150 - 174 0 --- R.QVPTTEAELLVSGDGNCAYFEVSAK.K
3039.3838 3038.3765 3038.4379 -20.18 59 - 84 1 --- K.VYNIRGDMYQLDILDTSGNHPFPAMR.R + Oxidation (M)
3321.6216 3320.6143 3320.6144 -0.03 176 - 203 2 --- K.NTNVDEMFYVLFSMAKLPHEMSPALHRK.I + Oxidation (M)
 No match to: 716.3353, 718.2895, 724.2175, 726.3070, 728.2833, 730.2399, 732.2518, 734.4341, 743.3130, 745.3617, 747.4360, 753.3469, 756.3524, 758.3462, 759.3632, 768.3517, 779.4633, 781.3725, 789.3640, 794.3674, 796.3701, 799.2854, 801.4280, 805.4417, 807.4076, 810.3293, 812.3207, 818.3782, 820.3700, 828.4415, 829.4508, 830.4513, 834.3805, 842.5101, 849.3834, 852.4368, 857.4457,
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Mascot: http://www.matrixscience.com/

MATRIX Mascot Search Results

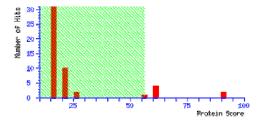
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User : 2w_(F19@11273_12Mar2012)
Email : proteomics@ipatimup.pt
Search title : Project: Proteomica, Spot Set: Proteomica\12Jan2012, Label: F19, Spot Id: 221882, Peak List Id: 435347, MS Job Run Id: 30
MS data file : C:\Documents and Settings\Administrator\Desktop\xu\xu\xu\Proteomica\12Jan2012\ppw_F19_146796935501.txt

Database : OrganismSpecie Bos_taurus_Reference_Proteome_2016_06 (24214 sequences; 12839866 residues)
Timestamp : 8 Jul 2016 at 10:03:05 GMT
Warning : A Peptide summary report will usually give a much clearer picture of MS/MS search results.
Top Score : 91 for F1MSR8, Collagen alpha-1(II) chain OS=Bos taurus GN=COL2A1 PE=4 SV=2
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Mascot Score Histogram

Protein score is -10*Log(P), where P is the probability that the observed match is a random event. Protein scores greater than 56 are significant (p<0.05).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



Protein Summary Report



Index

	Accession	Mass	Score	Description
1.	F1MSR8	134858	91	Collagen alpha-1(II) chain OS=Bos taurus GN=COL2A1 PE=4 SV=2
	P02459	142825		Collagen alpha-1(II) chain OS=Bos taurus GN=COL2A1 PE=1 SV=4
3.	F1MYE4	41319	63	Chondroadherin OS=Bos taurus GN=CHAD PE=4 SV=2
4.	P19879	34530		Mimecan OS=Bos taurus GN=OGN PE=1 SV=2
	A5D9E8	34517		Mimecan OS=Bos taurus GN=OGN PE=1 SV=1
6.	G3N088	40915	61	Mimecan OS=Bos taurus GN=OGN PE=1 SV=1
7.	Q27972	41373	58	Chondroadherin OS=Bos taurus GN=CHAD PE=1 SV=1
8.	F1MYS7	68834	25	Uncharacterized protein OS=Bos taurus GN=EIF4B PE=1 SV=1
9.	E1BND5	218183	24	Uncharacterized protein OS=Bos taurus GN=NCOA6 PE=4 SV=1
10.	A7Z060	81637	22	RNF219 protein OS=Bos taurus GN=RNF219 PE=2 SV=1
11.	G5E523	28080	20	Uncharacterized protein OS=Bos taurus GN=STAU2 PE=4 SV=1
12.	A6QR15	32975	20	LOC535277 protein OS=Bos taurus GN=LOC535277 PE=1 SV=1
13.	G3N219	3783	20	Uncharacterized protein OS=Bos taurus PE=4 SV=1
14.	G3X6N6	52918	19	Uncharacterized protein OS=Bos taurus PE=4 SV=1
15.	Q5E9D0	38604	19	Eukaryotic translation initiation factor 2 subunit 2 OS=Bos taurus GN=EIF2S2 PE=2 SV=1
16.	A0A140T862	38576	19	Eukaryotic translation initiation factor 2 subunit 2 OS=Bos taurus GN=EIF2S2 PE=1 SV=1
17.	E1BDF0	81113	19	Uncharacterized protein OS=Bos taurus GN=NEXN PE=4 SV=2
	Q2TBK0	39253	19	Uncharacterized protein C6orf163 homolog OS=Bos taurus PE=2 SV=1
	Q2TBN3	19797	19	Centrin-2 OS=Bos taurus GN=CETN2 PE=2 SV=1
	G3MWY8	9886	19	Coiled-coil domain-containing protein 167 OS=Bos taurus GN=CCDC167 PE=4 SV=1
	Q3MHQ4	30565	19	Zinc finger protein SNAI2 OS=Bos taurus GN=SNAI2 PE=2 SV=1
	F1MMB7	28878	18	
	F1N6K9	95221		Uncharacterized protein OS=Bos taurus PE=4 SV=2
	Q32KL9	28308		B-cell receptor-associated protein 29 OS=Bos taurus GN=BCAP29 PE=2 SV=1
	G3N097	6896		Uncharacterized protein OS=Bos taurus GN=SERF2 PE=4 SV=1
	F1MB56	24689		Uncharacterized protein OS=Bos taurus GN=TEX35 PE=4 SV=1
	G3MYV8	6868		Uncharacterized protein OS=Bos taurus PE=4 SV=1
	F1N3R9	25138		Uncharacterized protein OS=Bos taurus GN=TMCO5A PE=4 SV=1
	F1MN93	91564		Uncharacterized protein OS=Bos taurus GN=TOP1 PE=4 SV=1
	Q3SX42	23992	18	
	F1MGT0	24053		Meiotic nuclear division protein 1 homolog OS=Bos taurus GN=MND1 PE=4 SV=1
	Q32L19 O62827	24083		Meiotic nuclear division protein 1 homolog OS=Bos taurus GN=MND1 PE=2 SV=1
	Q05B49	21064 24773		ADM OS=Bos taurus GN=ADM PE=2 SV=2 UPF0711 protein C18orf21 homolog OS=Bos taurus PE=2 SV=1
	Q8MJN0	20622		FUNIA domain-containing protein 2 OS=Bos taurus GN=FUNDC2 PE=2 SV=1
	Q32LM7	28555		FOUNT GOMENT-CONTRAINING PICTERS OS-BOS LEGIUS GN-E-CODICE PE-2 SV-1 COILEd-coil domain-containing protein 152 OS-Bos taurus GN-CCDC152 PE-2 SV-2
	F1MJA8	28543		Coiled-coil domain-containing protein 152 OS-Bos taurus GN-CCDC152 FE-4 SV-2
	A5D7A0	26902		EF-hand domain-containing protein D2 OS-Bos taurus GN-EFHD2 PE-2 SV-1
	G3N365	141959		Structural maintenance of chromosomes protein OS=Bos taurus GN=SMC3 PE=3 SV=1
	E1BMK2	25092		Uncharacterized protein OS=Bos taurus PE=4 SV=2
	A7MBI0	50969		Protein kinase C and casein kinase substrate in neurons protein 1 OS=Bos taurus GN=PACSIN1 PE=2 SV=1
	G3N0Z2	40114		Uncharacterized protein OS=Bos taurus PE=3 SV=1
	Q0II81	14868		Regulator of G-protein signaling 13 OS=Bos taurus GN=RGS13 PE=2 SV=1
	P35246	37724		Pulmonary surfactant-associated protein D OS=Bos taurus GN=SFTPD PE=1 SV=2
	F1MWQ0	17662		Complexin-3 OS=Bos taurus GN=CPLX3 PE=4 SV=1
	Q0VC09	44563		RIB43A-like with coiled-coils protein 1 OS=Bos taurus GN=RIBC1 PE=2 SV=1
	E1BL95	154749		Uncharacterized protein OS=Bos taurus GN=CENPJ PE=4 SV=1
	P31976	68832		Ezrin OS=Bos taurus GN=EZR PE=1 SV=2

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49. Q2YDN4 58176 16 Coiled-coil domain-containing protein 105 OS=Bos taurus GN=CCDC105 PE=2 SV=1 50. G3MZ80 7701 16 Uncharacterized protein OS=Bos taurus PE=4 SV=1
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Expect: 1.9e-005 Matches: 40

Results List

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        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss
        Ions
        Peptide

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        806.3820
        806.3711
        13.5
        1266 - 1271
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        811.3912
        811.3898
        1.75
        1379 - 1384
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        K.TMIEYR.S

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        827.3847
        -1.95
        1379 - 1384
        0
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        K.TMIEYR.S + Oxid

        871.4945
        870.4872
        870.4851
        2.44
        1360 - 1366
        0
        ---
        R.FTYTVLK.D

        912.4497
        911.4424
        911.4283
        15.4
        1038 - 1046
        0
        ---
        R.GMGPQGPR.G + C

        935.4698
        934.4625
        934.4661
        -3.82
        1265 - 1271
        1
        ---
        K.KNWWSSK.S

        1003.4687
        1062.4614
        1002.4553
        6.12
        1367 - 1375
        1
        ---
        K.DGCTKHTGK.W

        1026.4922
        1025.4849
        1025.5003
        -14.95
        861 - 871
        1
        ---
        K.GARGDSGPFGR.A

        1114.5396
        1113.5323

     Observed Mr(expt) Mr(calc) ppm Start End Miss Ions
                                                                                                                                                                                       K.TMIEYR.S + Oxidation (M)
                                                                                                                                                                                       R.GMPGPOGPR.G + Oxidation (M)
1325.6637 1324.6564 1324.6598 -2.53 1216 -1225 1 --- R.DLKICHPEWK.S
1374.6412 1373.6339 1373.6510 -12.45 1367 - 1378 2 --- K.DGCTKHTGKWGK.T
1427.7872 1426.7799 1426.7780 1.37 1341 - 1353 0 --- K.ALLIQGSNDVEIR.A
1432.7133 1431.7060 1431.7068 -0.55 1360 - 1371 1 --- K.ALLIQGSNDVEIR.A
1478.7439 1477.7366 1477.7412 -3.11 1326 - 1339 0 --- K.NSIAYLDEAAGNLK.K
1485.7720 1484.7647 1484.7623 1.61 1354 - 1366 1 --- R.AEGNSRFTYTVLK.D
1555.8816 1554.8743 1554.8729 0.90 1340 - 1353 1 --- K.KALLIQGSNDVEIR.A
1606.8384 1605.8314 1605.8362 -3.15 1326 - 1340 1 --- K.NSIAYLDEAAGNLK.K
1757.8322 1756.8249 1756.8605 -20.25 633 - 650 1 --- R.LLSTEGSQNITYHCK.N
1757.8322 1756.8249 1756.8605 -20.25 633 - 650 1 --- R.GFFGERSPGSQGLQGAR.G
1786.9001 1785.8927 1785.8969 -2.34 1192 - 1207 1 76 K.SLNNQIESLRSPEGSR.K
1786.9017 1785.8944 1785.8969 -1.38 1192 - 1207 1 --- K.SLNNQIESLRSPEGSR.K
1914.9995 1913.9922 1913.9919 0.19 1192 - 1208 2 --- K.GGDRGEAGAGGPMGPAGPAGA
2042.0640 2041.0567 2041.0552 0.75 1341 - 1359 1 --- K.ALLIQGSNDVEIRAEGNSR.F
                                                                                                                                                                                       K.HTGKWGKTMIEYR.S + Oxidation (M)
2007.9894 2006.9821 2006.9341 23.9 1016 - 1037 1 --- K.QGDRGEAGAQGPMGPAGPAGAR.
2042.0640 2041.0567 2041.0552 0.75 1341 - 1359 1 --- K.ALLIQGSNDVETRAEGNSR.F
2047.0167 2046.0094 2045.9840 12.4 1354 - 1371 2 --- R.AEGNSRFTYTVLKDGCTK.H
2070.8835 2069.8762 2069.8823 -2.92 1226 - 1243 0 --- K.SGDYWIDPNQGCTLDAMK.V
2086.8828 2085.8755 2085.8772 -0.80 1226 - 1243 0 --- K.SGDYWIDPNQGCTLDAMK.V + 2098.9976 2097.9903 2097.9498 19.3 1038 - 1058 2 --- R.GMPGPQGPRGDKGETGEAGER.G
2170.1467 2169.1394 2169.1501 -4.94 1340 - 1359 2 --- K.KALLIQGSNDVETRAEGNSR.F
2400.0652 2399.0579 2399.0596 -0.70 1244 - 1264 0 --- K.VFCNMETGETCVYPNPASVPK.K
2416.0752 2415.0679 2415.0545 5.55 1244 - 1264 0 --- K.VFCNMETGETCVYPNPASVPK.K
2452.0632 2451.0559 2451.1085 -21.44 231 - 257 1 --- K.GEAGAPGVKGESGSPGENGSPGE
2528.1580 2527.1507 2527.1546 -1.52 1244 - 1265 1 --- K.VFCNMETGETCVYPNPASVPKK.
                                                                                                                                                                                       K.OGDRGEAGAOGPMGPAGPAGAR.G
                                                                                                                                                                                       K.SGDYWIDPNOGCTLDAMK.V + Oxidation (M)
                                                                                                                                                                                       R.GMPGPOGPRGDKGETGEAGER.G + Oxidation (M)
                                                                                                                                                                                       K.VFCNMETGETCVYPNPASVPK.K + Oxidation (M)
                                                                                                                                                                                       K.GEAGAPGVKGESGSPGENGSPGPMGPR.G + Oxidation (M)
                                                                                                                                                                                       K.VFCNMETGETCVYPNPASVPKK.N
  2528.1580 2527.1507 2527.1546 -1.52 1244 - 1205 1 --- K.V.CONTELGEICVIPNERAVERA.N
No match to: 713.4334, 719.2388, 724.3009, 726.2899, 732.2586, 735.3865, 745.4124, 756.4687, 764.4056, 765.3908, 767.3679,
768.3909, 772.3955, 795.4186, 802.4548, 803.4370, 805.4229, 806.4631, 809.4480, 811.4104, 816.4408, 820.4244, 822.3905, 823.3846,
824.3756, 834.4043, 836.4589, 837.3853, 839.3696, 840.3839, 842.5085, 845.4100, 845.4123, 851.3975, 852.4056, 856.4893, 866.3914,
867.3724, 870.5402, 878.4625, 880.4403, 886.3815, 888.4233, 890.4479, 893.9562, 894.4579, 897.0289, 897.4412, 902.4597, 910.4410,
  86. 3815, 886. 48425, 880. 4403, 886. 3815, 888. 4233, 890. 44/9, 893. 9562, 894. 45/9, 897. 0289, 897. 0289, 897. 0289, 897. 0289, 897. 0289, 897. 0289, 897. 0289, 897. 0289, 897. 0289, 897. 0289, 897. 0289, 897. 0289, 897. 0289, 897. 0289, 897. 0289, 897. 0289, 897. 0289, 897. 0289, 897. 0289, 897. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 987. 0289, 
    1165.5817, 1172.6301, 1179.6063, 1180.6165, 1182.6090, 1185.6317, 1187.6431, 1193.6096, 1195.6060, 1206.6770, 1209.1387, 1209.5848,
    1210.1014, 1215.6627, 1216.6494, 1222.5994, 1229.6246, 1231.6174, 1234.6317, 1235.5846, 1240.6298, 1244.6324, 1248.6119, 1250.6144,
     1268.6498, 1271.6696, 1273.6653, 1275.6644, 1291.6425, 1295.7233, 1300.6062, 1301.6205, 1307.6858, 1315.6570, 1317.6521, 1319.6852,
    1323.6517, 1328.6809, 1329.6672, 1331.6763, 1332.6743, 1334.6592, 1335.6937, 1336.6715, 1337.6724, 1338.6471, 1342.6680, 1345.6760,
    1346.6880, 1349.6991, 1354.6907, 1355.7155, 1357.7034, 1360.6882, 1361.6670, 1365.6913, 1368.6920, 1375.6798, 1376.6804, 1377.6794,
    1382.6647, 1387.6444, 1410.7505, 1411.7208, 1421.7177, 1431.7961, 1434.7288, 1446.7256, 1450.7079, 1473.8054, 1475.7748, 1477.7524, 1486.7664, 1493.7539, 1494.7423, 1505.8649, 1523.7841, 1524.7848, 1537.8021, 1549.7388, 1558.8474, 1576.7987, 1579.7926, 1584.7897,
    1588.8136, 1590.3611, 1604.8417, 1605.8098, 1615.8826, 1616.8605, 1628.8260, 1629.8358, 1630.8466, 1633.9790, 1635.7943, 1644.8046
    1647.8785, 1649.8463, 1651.8245, 1659.8241, 1662.7909, 1668.7810, 1679.9736, 1681.8214, 1683.8121, 1684.8204, 1706.8616, 1707.7838,
    1716.8571, 1725.8353, 1728.8242, 1734.8152, 1740.8768, 1742.9031, 1746.1659, 1751.8787, 1753.8948, 1756.8905, 1763.8188, 1765.7690, 1767.8036, 1768.9027, 1769.4475, 1770.4261, 1774.9091, 1783.8499, 1791.7335, 1808.8868, 1824.8674, 1840.8225, 1844.8907, 1848.8322, 1850.8301, 1851.8488, 1867.9503, 1880.9277, 1887.9734, 1908.8838, 1919.0038, 1925.9418, 1928.0103, 1931.9463, 1953.9353, 1975.9609,
   1992.9642, 1995.9020, 2011.8845, 2013.8983, 2024.8591, 2025.6234, 2036.5195, 2036.9486, 2047.9691, 2051.9792, 2052.9924, 2058.9963, 2060.0469, 2064.9900, 2068.8982, 2074.8914, 2083.9907, 2084.8987, 2092.8821, 2095.9941, 2100.9160, 2102.8872, 2106.9011, 2108.8835,
   2109.9175, 2114.9180, 2116.9160, 2118.8835, 2119.8833, 2125.0176, 2132.8694, 2136.9180, 2211.1045, 2225.1191, 2273.0496, 2277.0137, 2307.9941, 2322.9980, 2341.0366, 2343.0271, 2352.0571, 2355.0459, 2359.0532, 2366.0813, 2368.0544, 2369.0710, 2376.0264, 2382.0349,
    2383.6099, 2383.9600, 2390.0403, 2396.0342, 2398.0576, 2406.0737, 2411.0076, 2414.0813, 2417.0732, 2420.0718, 2422.0408, 2423.0466,
   2428.0898, 2430.0828, 2431.0845, 2433.0779, 2436.0508, 2438.0457, 2439.0261, 2442.0618, 2449.0347, 2460.0254, 2461.9956, 2463.9858, 2510.1277, 2542.1509, 2545.1558, 2547.1531, 2552.1038, 2565.1543, 2585.1111, 2601.0889, 2705.2192, 2717.0693, 3129.3176, 3208.1736,
    3223.2710, 3290.4131, 3291.4248, 3312.2756, 3451.3933, 3453.4365
  P02459
                            Mass: 142825 Score: 91
                                                                                                              Expect: 2e-005 Matches: 41
   Collagen alpha-1(II) chain OS=Bos taurus GN=COL2A1 PE=1 SV=4
    Observed

        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss Ions
        Peptide

        806.3820
        806.3711
        13.5
        1335
        - 1340
        0
        ---
        K.NWWSS

     807.3893
                                                                                                                                                                                       K.NWWSSK.S
                                                                  812.3985
                                   811.3912
                                                                                                                                                                                        K.TMTEYR.S
     828.3904
                                   827.3831
                                                                                                                                                                                       K.TMIEYR.S + Oxidation (M)
     871.4945
                                   870.4872
                                                                   870.4851 2.44 1429 - 1435 0 ---
911.4283 15.4 1107 - 1115 0 ---
                                                                                                                                                                                        R.FTYTVLK.D
                                                                                                                                                            0 ---
                                   911.4424
     912.4497
                                                                                                                                                                                       R.GMPGPOGPR.G + Oxidation (M)
                                                                                                                                                            1 ---
     935.4698
                                   934.4625
                                                                    934.4661 -3.82 1334 - 1340
                                                                                                                                                                                       K.KNWWSSK.S
                                                                                                -4.13 1288 - 1294
                                                                                                                                                            0 ---
     969.4571
                                   968.4498
                                                                   968.4538
                                                                                                                                                                                       K.LCHPEWK.S
  1003.4687 1002.4614 1002.4553 6.12 1436 - 1444 1 --- K.DGCTKHTGK.W 1026.4922 1025.4849 1025.5003 -14.95 930 - 940 1 --- K.GARGDSGPPGR.A
```

1114.5396 1113.5323 1113.5414 -8.18 609 - 620 1 --- K.GANGEPGKAGEK.G

```
1155.6113 1154.6040 1154.5754 24.8 1448 - 1456 1 ---
                                                                                                                                                         K.TMIEYRSOK.T
                                                                                   3.16 1261 - 1270
 1173.6259 1172.6186 1172.6149
                                                                                                                                                         K.SLNNQIESLR.S
 1183.6123 1182.6050 1182.5855 16.5 1445 - 1453 1 ---
                                                                                                                                                         K.WGKTMIEYR.S
                                                                                  21.9 1107 - 1118
 1196.6102 1195.6029 1195.5768
                                                                                                                                                         R.GMPGPQGPRGDK.G
 1196.6102 1195.6029 1195.5768 21.9 1107 - 1118 1 --- 1226.5948 1225.5875 1225.5939 -5.18 1250 - 1260 0 ---
                                                                                                                                                         R.QHDAEVDATLK.S
 1325.6637 1324.6564 1324.6598 -2.53 1285 - 1294 1 ---
1374.6412 1373.6339 1373.6510 -12.45 1436 - 1447 2 ---
                                                                                                                                                         R.DLKLCHPEWK.S
 1427.7872 1426.7789 1426.7780 1.37 1410 - 1422 0 --- K.ALLIQGSNDVETR.
1432.7133 1431.7060 1431.7068 -0.55 1429 - 1440 1 --- R.FTYTVLKDGCTK.H
                                                                                                                                                         K.ALLIQGSNDVEIR.A
1478.7439 1477.7366 1477.7412 -3.11 1395 - 1400 1 --- K.FITVLEDGLIK.H
1485.7720 1484.7647 1484.7623 1.61 1423 - 1435 1 --- R.AEGNSRFTYTVLK.D
1555.8816 1554.8743 1554.8729 0.90 1409 - 1422 1 --- K.KALLIQGSNDVEIR.A
1606.8384 1605.8311 1605.8362 -3.15 1395 - 1409 1 --- K.NSIAYLDEAAGNLK.K
1622.8137 1621.8064 1621.8035 1.81 1441 - 1453 2 --- K.HTGKWGKTMIEYR.S +
1750.8356 1749.8283 1749.8356 -4.14 1380 - 1394 0 --- R.LLSTEGSQNITYHCK.N
                                                                                                                                                         K.HTGKWGKTMTEYR.S + Oxidation (M)
 1757.8322 1756.8249 1756.8605 -20.25 702 - 719 1 ---
                                                                                                                                                         R.GFPGERGSPGSQGLQGAR.G
 1786.9000 1785.8927 1785.8969 -2.34 1261 - 1276 1 76 K.SLNNQIESLRSPEGSR.K
1786.9017 1785.8944 1785.8969 -1.38 1261 - 1276 1 --- K.SLNNQIESLRSPEGSR.K
1914.9995 1913.9922 1913.9919 0.19 1261 - 1277 2 --- K.SLNNQIESLRSPEGSR.K N
2007.9894 2006.9821 2006.9341 23.9 1085 - 1106 1 --- K.QGDRGEAGAQGPMGPAGPAGAG
2042.0640 2041.0567 2041.0552 0.75 1410 - 1428 1 --- K.ALLIQGSNDVEIRAEGNSR.F
                                                                                                                                                         K.QGDRGEAGAQGPMGPAGPAGAR.G
2047.0167 2046.0094 2045.9840 12.4 1423 - 1440 2 ---
2070.8835 2069.8762 2069.8823 -2.92 1295 - 1312 0 ---
                                                                                                                                                        R.AEGNSRFTYTVLKDGCTK.H
                                                                                                                                                         K.SGDYWIDPNOGCTLDAMK.V

    2070,8835
    2069,8762
    2069,8823
    -2.92
    1295
    -1312
    0
    ---

    2086,8828
    2085,8755
    2085,8772
    -0.80
    1295
    -1312
    0
    ---

    2098,9976
    2097,9903
    2097,9498
    19.3
    1107
    -1127
    2
    ---

    2170,1467
    2169,1394
    2169,1501
    -4.94
    1409
    -1428
    2
    ---

    2400,0652
    2399,0579
    2399,0596
    -0.70
    1313
    -1333
    0
    ---

    2416,0752
    2415,0679
    2415,0545
    5.55
    1313
    -1333
    0
    ---

    2417,0732
    2416,0659
    2416,0089
    23.6
    54
    -73
    0
    ---

                                                                                                                                                         K.SGDYWIDPNQGCTLDAMK.V + Oxidation (M)
                                                                                                                                                         R.GMPGPOGPRGDKGETGEAGER.G + Oxidation (M)
                                                                                                                                                         K.KALLIOGSNDVEIRAEGNSR.F
                                                                                                                                                        K.VFCNMETGETCVYPNPASVPK.K
                                                                                                                                                         K.VFCNMETGETCVYPNPASVPK.K + Oxidation (M)
                                                                                                                                                        R.ICVCDTGTVLCDDIICEDMK.D
2452.0632 2451.0559 2451.1085 -21.44 300 - 326 1 ---
2528.1580 2527.1507 2527.1546 -1.52 1313 - 1334 1 ---
                                                                                                                                                         K.GEAGAPGVKGESGSPGENGSPGPMGPR.G + Oxidation (M)
                                                                                                                                                         K.VFCNMETGETCVYPNPASVPKK.N
 No match to: 713.4334, 719.2388, 724.3009, 726.2899, 732.2586, 735.3865, 745.4124, 756.4687, 764.4056, 765.3908, 767.3679, 768.3909, 772.3955, 795.4186, 802.4548, 803.4370, 805.4229, 806.4631, 809.4480, 811.4104, 816.4408, 820.4244, 822.3905, 823.3846, 824.3756, 834.4043, 836.4589, 837.3853, 839.3696, 840.3839, 842.5085, 845.4100, 845.4123, 851.3975, 852.4056, 856.4893, 866.3914, 867.3724, 870.5402, 878.4625, 880.4403, 886.3815, 888.4233, 890.4479, 893.9562, 894.4579, 897.0289, 897.4412, 902.4597, 910.4410,
 913.5118, 916.4905, 918.5391, 925.4747, 928.5064, 930.5048, 933.4619, 939.4758, 947.4628, 949.4591, 951.4703, 954.4674, 957.4657, 963.4676, 965.4761, 967.4568, 972.4793, 972.4800, 975.4650, 977.4630, 978.4976, 981.4565, 983.4664, 985.4842, 991.4688, 993.5331, 997.4298, 999.4453, 1001.4488, 1007.5668, 1018.5200, 1018.5212, 1023.4777, 1027.4972, 1030.5151, 1031.3850, 1033.5419, 1035.5352, 1039.5402, 1042.5383, 1045.5654, 1056.5488, 1066.5400, 1060.5402, 1065.5425, 1086.5115, 1106.5372, 1111.5582, 1113.5546, 1115.5605, 1118.5529, 1122.5363, 1128.5775, 1129.6014, 1130.5935, 1140.5485, 1144.5709, 1156.5720, 1157.5952, 1158.6154, 1159.6273, 1167.5705, 1157.6732, 1130.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6733, 1100.6
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  1716.8571,
   1850.8301, 1851.8488, 1867.9503, 1880.9277, 1887.9734, 1908.8838, 1919.0038, 1925.9418, 1928.0103, 1931.9463, 1953.9353, 1975.9609,
 1992.9642, 1995.9020, 2011.8845, 2013.8983, 2024.8591, 2025.6234, 2036.5195, 2036.9486, 2047.9691, 2051.9792, 2052.9924, 2058.9963, 2060.0469, 2064.9900, 2068.8982, 2074.8914, 2083.9907, 2084.8987, 2092.8821, 2095.9941, 2100.9160, 2102.8872, 2106.9011, 2108.8835,
 2109.9175, 2114.9180, 2116.9160, 2118.8835, 2119.8833, 2125.0176, 2132.8694, 2136.9180, 2211.1045, 2225.1191, 2273.0496, 2277.0137, 2307.9941, 2322.9980, 2341.0366, 2343.0271, 2352.0571, 2355.0459, 2359.0532, 2366.0813, 2368.0544, 2369.0710, 2376.0264, 2382.0349,
 2383.6099, 2383.9600, 2390.0403, 2396.0342, 2398.0576, 2406.0737, 2411.0076, 2414.0813, 2420.0718, 2422.0408, 2423.0466, 2428.0898, 2430.0828, 2431.0845, 2433.0779, 2436.0508, 2438.0457, 2439.0261, 2442.0618, 2449.0347, 2460.0254, 2461.9956, 2463.9858, 2510.1277,
  2542.1509, 2545.1558, 2547.1531, 2552.1038, 2565.1543, 2585.1111, 2601.0889, 2705.2192, 2717.0693, 3129.3176, 3208.1736, 3223.2710,
  3290.4131, 3291.4248, 3312.2756, 3451.3933, 3453.4365
 F1MYE4
                      Mass: 41319 Score: 63
                                                                                             Expect: 0.012 Matches: 20
 Chondroadherin OS=Bos taurus GN=CHAD PE=4 SV=2
                                                       Mr(calc) ppm Start End Miss Ions Peptide
755.4653 -5.21 57 - 62 0 --- K.Linloi
764.3817 2.40 166 - 173 0 --- R.SGAFQI
801.4497 -2.74 315 - 320 1 --- R.RWLEAI
                            Mr(expt)
   Observed
   756.4687
                             755.4614
                                                                                                                                                    K.LLNLQR.N
   765.3908
                             764.3835
                                                                                                                                                    R.SGAFOGAK.D
   802.4548
                            801.4475
                                                                                                                                                   R.RWLEAK.T
                                                       819.4239 -8.28 91 - 98 0 --- R.EVAAGAFR.G
836.3633 17.6 306 - 311 0 --- K.CTCQLR.G
                            819.4171
   820.4244
                            836.3780
837.3853 836.3780 836.3633 17.6 306 - 311 0 --- K.CTCQLR.G
913.5118 912.5045 912.5042 0.32 334 - 340 1 --- K.FRGGHIR.D
993.5331 992.5258 992.5226 3.26 347 - 354 2 --- R.GCKFPTKR.S
1018.5200 1017.5127 1017.5104 2.28 274 - 281 0 35 K.HVHLENNR.L
1018.5212 1017.5139 1017.5104 3.46 274 - 281 0 --- K.HVHLENNR.L
1315.6570 1314.6497 1314.6429 5.19 336 - 346 1 --- R.GQHIRDTDAFR.G
1319.6852 1318.6779 1318.6710 5.22 306 - 315 2 --- K.CTCQLRGLRR.W
1338.6471 1337.6398 1337.6364 2.55 235 - 246 0 --- K.SIPDNAPQSFGR.Y
1349.6991 1348.6918 1348.6888 2.27 63 - 74 0 --- R.NNFPVLAANSFR.A
   837.3853
1355.7155 1354.7082 1354.7133 -3.74 261 - 273 0 --- K.FSDGAFLGYTTLK.H 1361.6670 1360.6597 1360.6405 14.1 321 - 333 0 --- K.TSRPDATCASPAK.F 1365.6913 1364.6840 1364.6936 -6.99 207 - 219 0 --- R.NQLSYPSAALSK.L 1505.8649 1504.8576 1504.8613 -2.44 222 - 234 1 --- R.VVEELKLSHNPLK.S 1647.8785 1646.8712 1646.8780 -4.12 102 - 114 0 --- K.QLIYLYLSHNDIR.V 1751.8787 1750.8714 1750.8777 -3.60 247 - 260 0 --- R.VLETWLDNTNLEK.F
                                                                                                                                                  R.YLETLWLDNTNLEK.F
 2060.0469 2059.0396 2059.0374 1.07 202 - 219 1 ---
                                                                                                                                                    K.FYLDRNQLSSYPSAALSK.L
 No match to: 713.4334, 719.2388, 724.3009, 726.2899, 732.2586, 735.3865, 745.4124, 764.4056, 767.3679, 768.3909, 772.3955, 795.4186, 803.4370, 805.4229, 806.4631, 807.3893, 809.4480, 811.4104, 812.3985, 816.4408, 822.3905, 823.3846, 824.3756, 828.3904, 834.4043, 836.4589, 839.3696, 840.3839, 842.5085, 845.4100, 845.4123, 851.3975, 852.4056, 856.4893, 866.3914, 867.3724, 870.5402,
  871.4945, 878.4625, 880.4403, 886.3815, 888.4233, 890.4479, 893.9562, 894.4579, 897.0289, 897.4412, 902.4597, 910.4410, 912.4497, 916.4905, 918.5391, 925.4747, 928.5064, 930.5048, 933.4619, 935.4698, 939.4758, 947.4628, 949.4591, 951.4703, 954.4674, 957.4657,
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963.4676, 965.4761, 967.4568, 969.4571, 972.4793, 972.4800, 975.4650, 977.4630, 978.4976, 981.4565, 983.4664, 985.4842, 991.4688, 997.4298, 999.4453, 1001.4488, 1003.4687, 1007.5668, 1023.4777, 1026.4922, 1027.4972, 1030.5151, 1031.3850, 1033.5419, 1035.5352, 1036.5372, 1039.5402, 1042.5383, 1045.5654, 1056.5488, 1060.5400, 1060.5442, 1065.5425, 1086.5115, 1106.5372, 1111.5582, 1113.5546,
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  1473.8054, 1475.7748, 1477.7524, 1478.7439, 1485.7720, 1486.7664, 1493.7539, 1494.7423, 1523.7841, 1524.7848, 1537.8021, 1549.7388, 1555.8816, 1558.8474, 1576.7987, 1579.7926, 1584.7897, 1588.8136, 1590.3611, 1604.8417, 1605.8098, 1606.8384, 1615.8826, 1616.8605,
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  2007.9894, 2011.8845, 2013.8983, 2024.8591, 2025.6234, 2036.5195, 2036.9486, 2042.0640, 2047.0167, 2047.9691, 2051.9792, 2052.9924,
  2058.9963, 2064.9900, 2068.8982, 2070.8835, 2074.8914, 2083.9907, 2084.8987, 2086.8828, 2092.8821, 2095.9941, 2098.9976, 2100.9160,
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  2211.1045, 2225.1191, 2273.0496, 2277.0137, 2307.9941, 2322.9980, 2341.0366, 2343.0271, 2352.0571, 2355.0459, 2359.0532, 2366.0813,
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                                                                                     Expect: 0.015 Matches: 15
  Mimecan OS=Bos taurus GN=OGN PE=1 SV=2
                          Mr(expt)
                                                                                                      End Miss Ions Peptide
                                                                          ppm Start
                                                   805.4698 -17.35 190 - 196 0 ---
917.5334 -1.80 292 - 299 1 ---
                           805.4558
                           917 5318
                                                                                                                                          K RIPIGSYT -
   918 5391
   930.5048
930.5048 929.4975 929.4930 4.81 266 - 272 1 --- R.DRIEEIR.L
939.4758 938.4686 938.4457 24.3 258 - 265 0 --- K.ANDTSYIR.D
972.4793 971.4720 971.4712 0.85 121 - 128 0 --- K.ESAYLYAR.F
972.4800 971.4727 971.4712 1.56 121 - 128 0 8 K.ESAYLYAR.F
1060.5400 1059.5327 1059.5349 -2.05 139 - 147 0 36 K.DFADIPNLR.R
1060.5442 1059.5369 1059.5349 1.91 139 - 147 0 --- K.DFADIPNLR.R
1115.5605 1114.5532 1114.5533 -5.49 283 - 291 0 --- K.HPNSFICLK.R
1216.6494 1215.6421 1215.6360 5.04 139 - 148 1 --- K.DFADIPNLR.L
1271.6696 1270.6623 1270.6604 1.48 283 - 292 1 --- K.HPNSFICLK.L
1361.6670 1360.6597 1360.6775 -13.07 121 - 131 1 --- K.ESAYLYAR.FK.I
1473.8054 1472.7981 1472.7987 -0.40 135 - 147 1 --- K.LTAKDFADIPNLR.R
1679.9736 1678.9663 1678.9617 2.74 268 - 282 1 --- R.IEEIRLEGRPVILGK.H
2705.2192 2704.2119 2704.1704 15.3 29 - 50 0 --- R.IIYDYGTDNLEETFFSQDYEDK.Y

No match to: 713.4334, 719.2388, 724.3009, 726.2899, 732.2586, 735.3865, 745.4124, 756.46
                          929.4975
                                                   929.4930 4.81 266 - 272
                                                                                                                                          R.DRIEEIR.L
  No match to: 713.4334, 719.2388, 724.3009, 726.2899, 732.2586, 735.3865, 745.4124, 756.4687, 764.4056, 765.3908, 767.3679,
  768.3909, 772.3955, 795.4186, 802.4548, 803.4370, 805.4229, 807.3893, 809.4480, 811.4104, 812.3985, 816.4408, 820.4244, 822.3905, 823.3846, 824.3756, 828.3904, 834.4043, 836.4589, 837.3853, 839.3696, 840.3839, 842.5085, 845.4100, 845.4123, 851.3975, 852.4056,
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  1728.8242, 1734.8152, 1740.8768, 1742.9031, 1746.1659, 1750.8356, 1751.8787, 1753.8948, 1756.8905, 1757.8322, 1763.8188, 1765.7690,
  1767.8036, 1768.9027, 1769.4475, 1770.4261, 1774.9091, 1783.8499, 1786.9000, 1786.9017, 1791.7335, 1808.8868, 1824.8674, 1840.8225, 1844.8907, 1848.8322, 1850.8301, 1851.8488, 1867.9503, 1880.9277, 1887.9734, 1908.8838, 1914.9995, 1919.0038, 1925.9418, 1928.0103,
  1931.9463, 1953.9353, 1975.9609, 1992.9642, 1995.9020, 2007.9894, 2011.8845, 2013.8983, 2024.8591, 2025.6234, 2036.5195, 2036.9486, 2042.0640, 2047.0167, 2047.9691, 2051.9792, 2052.9924, 2058.9963, 2060.0469, 2064.9900, 2068.8982, 2070.8835, 2074.8914, 2083.9907,
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 2463.9858, 2510.1277, 2528.1580, 2542.1509, 2545.1558, 2547.1531, 2552.1038, 2565.1543, 2585.1111, 2601.0889, 2717.0693, 3129.3176, 3208.1736, 3223.2710, 3290.4131, 3291.4248, 3312.2756, 3451.3933, 3453.4365
 A5D9E8
                     Mass: 34517
                                                                                       Expect: 0.015 Matches: 15
                                                        Score: 62
  Mimecan OS=Bos taurus GN=OGN PE=1 SV=1
   Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide
                           805.4558
                                                   805.4698 -17.35 190 - 196 0 ---
                                                                                                                                         K.LTLFNAK.Y
                          917.5318
                                                   917.5334 -1.80
                                                                                          292 - 299
                          929.4975
                                                   929.4930
                                                                                           266 - 272
                                                                            4.81
                          938.4686
                                                   938.4457
                                                                            24.3 258 - 265 0 --- K.ANDTSYIR.D
                                                   971.4712
                                                                             0.85 121 - 128 0 ---
                                                   971.4712 1.56 121 - 128 0 8 K.ESAYLYAR.F
                          971.4727
                                                                       1.56 121 - 128 0 8 K.ESAYLYAR.F

-2.05 139 - 147 0 36 K.DFADIPNLR.R

1.91 139 - 147 0 --- K.DFADIPNLR.R

-5.49 283 - 291 0 --- K.HPNSFICLK.R

5.04 139 - 148 1 --- K.DFADIPNLR.L

1.48 283 - 292 1 --- K.HPNSFICLKR.L

-13.07 121 - 131 1 --- K.ESAYLYARFNK.I

-0.40 135 - 147 1 --- K.LTAKDFADIPNLR.R

2.74 268 - 282 1 --- R.IEEIRLEGNPVILGK.H
1060.5400 1059.5327 1059.5349 -2.05
1060.5442 1059.5369 1059.5349 1.91
 1115.5605 1114.5532 1114.5593
 1216.6494 1215.6421 1215.6360
 1271.6696 1270.6623 1270.6604
 1361.6670 1360.6597 1360.6775 -13.07
 1473.8054 1472.7981 1472.7987 -0.40
 1679.9736 1678.9663 1678.9617
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2705.2192 2704.2119 2704.1704

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15.3 29 - 50 0 --- R.IIYDYGTDNLEETFFSQDYEDK.Y
 No match to: 713.4334, 719.2388, 724.3009, 726.2899, 732.2586, 735.3865, 745.4124, 756.4687, 764.4056, 765.3908, 767.3679, 768.3909, 772.3955, 795.4186, 802.4548, 803.4370, 805.4229, 807.3893, 809.4480, 811.4104, 812.3985, 816.4408, 820.4244, 822.3905, 823.3846, 824.3756, 828.3904, 834.4043, 836.4589, 837.3853, 839.3696, 840.3839, 842.5085, 845.4100, 845.4123, 851.3975, 852.4056,
 856.4893, 866.3914, 867.3724, 870.5402, 871.4945, 878.4625, 880.4403, 886.3815, 888.4233, 890.4479, 893.9562, 894.4579, 897.0289, 897.4412, 902.4597, 910.4410, 912.4497, 913.5118, 916.4905, 925.4747, 928.5064, 933.4619, 935.4698, 947.4628, 949.4591, 951.4703,
 954.4674, 957.4657, 963.4676, 965.4761, 967.4568, 969.4571, 975.4650, 977.4630, 978.4976, 981.4565, 983.4664, 985.4842, 991.4688, 993.5331, 997.4298, 999.4453, 1001.4488, 1003.4687, 1007.5668, 1018.5200, 1018.5212, 1023.4777, 1026.4922, 1027.4972, 1030.5151, 1031.3850, 1033.5419, 1035.5352, 1036.5372, 1039.5402, 1042.5383, 1045.5654, 1056.5488, 1065.5425, 1086.5115, 1106.5372, 1111.5582,
 1113.5546, 1114.5396, 1118.5529, 1122.5363, 1128.5775, 1129.6014, 1130.5935, 1140.5485, 1144.5709, 1155.6113, 1156.5720, 1157.5952, 1158.6154, 1159.6273, 1165.5817, 1172.6301, 1173.6259, 1179.6063, 1180.6165, 1182.6090, 1183.6123, 1185.6317, 1187.6431, 1193.6096,
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  1368.6920, 1374.6412, 1375.6798, 1376.6804, 1377.6794, 1382.6647, 1387.6444, 1410.7505, 1411.7208, 1421.7177, 1427.7872, 1431.7961,
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 1931.9463, 1953.9353, 1975.9609, 1992.9642, 1995.9020, 2007.9894, 2011.8845, 2013.8983, 2024.8591, 2025.6234, 2036.5195, 2036.9486, 2042.0640, 2047.0167, 2047.9691, 2051.9792, 2052.9924, 2058.9963, 2060.0469, 2064.9900, 2068.8982, 2070.8835, 2074.8914, 2083.9907,
 2084.8987, 2086.8828, 2092.8821, 2095.9941, 2098.9976, 2100.9160, 2102.8872, 2106.9011, 2108.8835, 2109.9175, 2114.9180, 2116.9160, 2118.8835, 2119.8833, 2125.0176, 2132.8694, 2136.9180, 2170.1467, 2211.1045, 2225.1191, 2273.0496, 2277.0137, 2307.9941, 2322.9980,
 2341.0366, 2343.0271, 2352.0571, 2355.0459, 2359.0532, 2366.0813, 2368.0544, 2369.0710, 2376.0264, 2382.0349, 2383.6099, 2383.9600, 2390.0403, 2396.0342, 2398.0576, 2400.0652, 2406.0737, 2411.0076, 2414.0813, 2416.0752, 2417.0732, 2420.0718, 2422.0408, 2423.0466,
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 2463.9858. 2510.1277. 2528.1580. 2542.1509. 2545.1558. 2547.1531. 2552.1038. 2565.1543. 2585.1111. 2601.0889. 2717.0693. 3129.3176.
 3208.1736, 3223.2710, 3290.4131, 3291.4248, 3312.2756, 3451.3933, 3453.4365
                                                                       Expect: 0.021 Matches: 16
 Mimecan OS=Bos taurus GN=OGN PE=1 SV=1
                     Mr (expt)
                                         Mr (calc)
                                                               ppm Start End Miss Ions Peptide
                                          734.3963 -23.27
                                                                          5 - 10 0 ---
                      734.3792
                                                                                                  0 ---
                                          805.4698 -17.35
                                                                            247 - 253
                      805.4558
                                                                                                                 K.LTLFNAK.Y
                                         917.5334 -1.80 349 - 356
929.4930 4.81 323 - 329
                     917.5318
                                                                                                                  K.RLPIGSYI.-
  918.5391
                     929.4975
                                                                                                                 R.DRIEEIR.L
                                         938.4457
971.4712
                     938.4686
                                                              24.3 315 - 322 0 --- K.ANDTSYIR.D
                     971.4720
                                                                          178 - 185 0 --- K.ESAYLYAR.F
                                         971.4712 1.56 178 - 185 0 8 K.ESAYLYAR.F
                    971.4727
972.4800 971.4727 971.4712 1.56 178 - 185 0 8 K.ESAYLYAR.F

1060.5401 1059.5327 1059.5349 -2.05 196 - 204 0 36 K.DFADIPNLR.R

1060.5442 1059.5369 1059.5349 1.91 196 - 204 0 --- K.DFADIPNLR.R

1115.5605 1114.5532 1114.5593 -5.49 340 - 348 0 --- K.HPNSFICLK.R

1216.6494 1215.6421 1215.6360 5.04 196 - 205 1 --- K.DFADIPNLR.L

1271.6696 1270.6623 1270.6604 1.48 340 - 349 1 --- K.HPNSFICLKR.L

1361.6670 1360.6597 1360.6775 -13.07 178 - 188 1 --- K.ESAYLYARFNK.I

1473.8054 1472.7981 1472.7987 -0.40 192 - 204 1 --- K.LTAKDFADIPNLR.R

1679.9736 1678.9663 1678.9617 2.74 325 - 339 1 --- R.IEBIRLEGMPVLIGK.H

2705.2192 2704.2119 2704.1704 15.3 86 - 107 0 --- R.IIYDYGTDNLEETFFSQDYEDK.Y
 No match to: 713.4334, 719.2388, 724.3009, 726.2899, 732.2586, 745.4124, 756.4687, 764.4056, 765.3908, 767.3679, 768.3909,
No match to: 713.4334, 719.2388, 724.3009, 726.2899, 732.2586, 745.4124, 756.4687, 764.4056, 765.3908, 767.3679, 768.3909, 772.3955, 795.4186, 802.4548, 803.4370, 805.4229, 807.3893, 809.4480, 811.4104, 812.3985, 816.4408, 820.4244, 822.3905, 823.3846, 824.3756, 828.3904, 834.4043, 836.4589, 837.3853, 839.3896, 840.3839, 842.5085, 845.4100, 845.4123, 851.3975, 852.4056, 856.4893, 866.3914, 867.3724, 870.5402, 871.4945, 878.4625, 880.4403, 886.3815, 888.4233, 890.4479, 893.9562, 894.4579, 897.0289, 897.4412, 902.4597, 910.4410, 912.4497, 913.5118, 916.4905, 925.4747, 928.5064, 933.4619, 935.4698, 947.4628, 949.4591, 951.4703, 954.4674, 957.4657, 963.4676, 965.4761, 967.4568, 969.4571, 975.4650, 977.4630, 978.4976, 981.4565, 983.4664, 985.4842, 991.4688, 993.5331, 997.4298, 999.4453, 1001.4488, 1003.4687, 1007.5668, 1018.5200, 1018.5212, 1023.4777, 1026.4922, 1027.4972, 1030.5151, 1031.3850, 1033.5419, 1035.5352, 1036.5372, 1039.5402, 1042.5383, 1045.5654, 1056.5488, 1056.5485, 1086.5115, 1106.5372, 1111.5582, 1113.5546,
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 1434.7288, 1446.7256, 1450.7079, 1475.7748, 1477.7524, 1478.7439, 1485.7720, 1486.7664, 1493.7539, 1494.7423, 1505.8649, 1523.7841
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  1606.8384, 1615.8826, 1616.8605, 1622.8137, 1628.8260, 1629.8358, 1630.8466, 1633.9790, 1635.7943, 1644.8046, 1647.8785,
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 1953.9353, 1975.9609, 1992.9642, 1995.9020, 2007.9894, 2011.8845, 2013.8983, 2024.8591, 2025.6234, 2036.5195, 2036.9486, 2042.0640, 2047.0167, 2047.9691, 2051.9792, 2052.9924, 2058.9963, 2060.0469, 2064.9900, 2068.8982, 2070.8835, 2074.8914, 2083.9907, 2084.8987,
 2086.8828, 2092.8821, 2095.9941, 2098.9976, 2100.9160, 2102.8872, 2106.9011, 2108.8835, 2109.9175, 2114.9180, 2116.9160, 2118.8835, 2119.8833, 2125.0176, 2132.8694, 2136.9180, 2170.1467, 2211.1045, 2225.1191, 2273.0496, 2277.0137, 2307.9941, 2322.9980, 2341.0366,
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 3223.2710, 3290.4131, 3291.4248, 3312.2756, 3451.3933, 3453.4365
                 Mass: 41373
                                           Score: 58
                                                                       Expect: 0.039 Matches: 19
 Chondroadherin OS=Bos taurus GN=CHAD PE=1 SV=1

        Mr (calc)
        ppm
        Start
        End Miss Ions
        Peptide

        755.4653
        -5.21
        57 - 62
        0 ---
        K.LLNLOI

  Observed Mr(expt)
                                                                       57 - 62 0 ---
                                                                                                                 K.LLNLQR.N
                      755.4614
                                                                          166 - 173
  765.3908
                      764.3835
                                          764.3817 2.40
                                                                                               0
                                                                                                                 R.SGAFQGAK.D
                                          801.4497 -2.74
                      801.4475
                                                                          315 - 320
                                                                                                                 R.RWLEAK.T
                      819.4171
                                          819.4239 -8.28
                                                                            91 - 98
                                                                                               0 ---
                                                                                                                 R.EVAAGAFR.G
                     836.3780
                                                                          306 - 311
  837.3853
                                          836.3633 17.6
                                                                                              0 ---
                                                                                                                 K.CTCQLR.G
                                                                                               1 ---
                                                                                                                 K.FRGQHIR.D
  913.5118
                      912.5045
                                          912.5042 0.32
                                                                          334 - 340
                                                           3.26
                                                                          347 - 354
  993.5331
                     992.5258
                                          992.5226
                                                                                                                R.GCKFPTKR.S
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1018.5200 1017.5127 1017.5104 2.28 274 - 281 0 35 K.HVHLENNR.L
1018.5212 1017.5139 1017.5104 3.46 274 - 281 0 --- K.HVHLENNR.L
1315.6570 1314.6497 1314.6429 5.19 336 - 346 1 --- R.GQHIRDIDAFR.G
1319.6852 1318.6779 1318.6710 5.22 306 - 315 2 --- K.CTCQLRGLRR.W
1338.6471 1337.6398 1337.6364 2.55 235 - 246 0 --- K.SIPDNAFQSFGR.Y
1355.7155 1354.7082 1354.7133 -3.74 261 - 273 0 --- K.FSDAFLGVTIK.H
1361.6670 1360.6597 1360.6405 14.1 321 - 333 0 --- K.TSRPDATCASPAK.F
1365.6913 1364.6840 1364.6936 -6.99 207 - 219 0 --- R.NQLSSYPSAALSK.L
1505.8649 1504.8576 1504.8613 -2.44 222 - 234 1 --- R.VVEELKLSHNPLK.S
1647.8785 1646.8712 1646.8780 -4.12 102 - 114 0 --- K.QLIYLYLSHNDIR.V
1751.8787 1750.8714 1750.8777 -3.60 247 - 260 0 --- R.YLETLWIDNINLEK.F
2060.0469 2059.0396 2059.0374 1.07 202 - 219 1 --- R.KFYLDRNQLSSYPSAALSK.L
No match to: 713.4334, 719.2388, 724.3009, 726.2899, 732.2586, 735.3865, 745.4124, 76
 No match to: 713.4334, 719.2388, 724.3009, 726.2899, 732.2586, 735.3865, 745.4124, 764.4056, 767.3679, 768.3909, 772.3955, 795.4186, 803.4370, 805.4229, 806.4631, 807.3893, 809.4480, 811.4104, 812.3985, 816.4408, 822.3905, 823.3846, 824.3756, 828.3904, 834.4043, 836.4589, 839.3696, 840.3839, 842.5085, 845.4100, 845.4123, 851.3975, 852.4056, 856.4893, 866.3914, 867.3724, 870.5402,
 871.4945, 878.4625, 880.4403, 886.3815, 888.4233, 890.4479, 893.3562, 894.4579, 897.0289, 897.4412, 902.4597, 910.4410, 912.4497, 916.4905, 918.5391, 925.4747, 928.5064, 930.5048, 933.4619, 935.4698, 939.4758, 947.4628, 949.4591, 951.4703, 954.4674, 957.4650, 977.4630, 978.4976, 981.4565, 983.4664, 985.4842, 991.4688, 997.4298, 999.4453, 1001.4488, 1003.4687, 1007.5668, 1023.4777, 1026.4922, 1027.4972, 1030.5151, 1031.3850, 1033.5419, 1035.5352,
   1036.5372, 1039.5402, 1042.5383, 1045.5654, 1056.5488, 1060.5400, 1060.5442, 1065.5425, 1086.5115, 1106.5372, 1111.5582, 1113.5546,
  1114.5396, 1115.5605, 1118.5529, 1122.5363, 1128.5775, 1129.6014, 1130.5935, 1140.5485, 1144.5709, 1155.6113, 1156.5720, 1157.5952, 1158.6154, 1159.6273, 1165.5817, 1172.6301, 1173.6259, 1179.6063, 1180.6165, 1182.6090, 1183.6123, 1185.6317, 1187.6431, 1193.6096,
   1195.6060, 1196.6102, 1206.6770, 1209.1387, 1209.5848, 1210.1014, 1215.6627, 1216.6494, 1222.5994, 1226.5948, 1229.6246,
  1234.6317, 1235.5846, 1240.6298, 1244.6324, 1248.6119, 1250.6144, 1268.6498, 1271.6696, 1273.6653, 1275.6644, 1291.6425, 1295.7233,
   1300.6062, 1301.6205, 1307.6858, 1317.6521, 1323.6517, 1325.6637, 1328.6809, 1329.6672, 1331.6763, 1332.6743, 1334.6592, 1335.6937
  1336.6715, 1337.6724, 1342.6680, 1345.6760, 1346.6880, 1349.6991, 1354.6907, 1357.7034, 1360.6882, 1368.6920, 1374.6412, 1375.6798, 1376.6804, 1377.6794, 1382.6647, 1387.6444, 1410.7505, 1411.7208, 1421.7177, 1427.7872, 1431.7961, 1432.7133, 1434.7288, 1446.7256,
  1450.7079, 1473.8054, 1475.7748, 1477.7524, 1478.7439, 1485.7720, 1486.7664, 1493.7539, 1494.7423, 1523.7841, 1524.7848, 1537.8021, 1549.7388, 1555.8816, 1558.8474, 1576.7987, 1579.7926, 1584.7897, 1588.8136, 1590.3611, 1604.8417, 1605.8098, 1606.8384, 1615.8826,
  1616.8605, 1622.8137, 1628.8260, 1629.8358, 1630.8466, 1633.9790, 1635.7943, 1644.8046, 1649.8463, 1651.8245, 1659.8241, 1662.7909,
  1668,7810, 1679,9736, 1681,8214, 1683,8121, 1684,8204, 1706,8616, 1707,7838, 1716,8571, 1725,8353, 1728,8242, 1734,8152, 1740,8768,
   1742.9031, 1746.1659, 1750.8356, 1753.8948, 1756.8905, 1757.8322, 1763.8188, 1765.7690, 1767.8036, 1768.9027, 1769.4475, 1770.4261,
  1774.9091, 1783.8499, 1786.9000, 1786.9017, 1791.7335, 1808.8868, 1824.8674, 1840.8225, 1844.8907, 1848.8322, 1850.8301, 1851.8488, 1867.9503, 1880.9277, 1887.9734, 1908.8838, 1914.9995, 1919.0038, 1925.9418, 1928.0103, 1931.9463, 1953.9353, 1975.9609, 1992.9642,
  1995.9020, 2007.9894, 2011.8845, 2013.8983, 2024.8591, 2025.6234, 2036.5195, 2036.9486, 2042.0640, 2047.0167, 2047.9691, 2051.9792, 2052.9924, 2058.9963, 2064.9900, 2068.8982, 2070.8835, 2074.8914, 2083.9907, 2084.8987, 2086.8828, 2092.8821, 2095.9941, 2098.9976,
  2100.9160, 2102.8872, 2106.9011, 2108.8835, 2109.9175, 2114.9180, 2116.9160, 2118.8835, 2119.8833, 2125.0176, 2132.8694,
 2170.1467, 2211.1045, 2225.1191, 2273.0496, 2277.0137, 2307.9941, 2322.9980, 2341.0366, 2343.0271, 2352.0571, 2355.0459, 2359.0532, 2366.0813, 2368.0544, 2369.0710, 2376.0264, 2382.0349, 2383.6099, 2383.9600, 2390.0403, 2396.0342, 2398.0576, 2400.0652, 2406.0737,
  2411.0076, 2414.0813, 2416.0752, 2417.0732, 2420.0718, 2422.0408, 2423.0466, 2428.0898, 2430.0828, 2431.0845, 2433.0779, 2436.0508, 2438.0457, 2439.0261, 2442.0618, 2449.0347, 2452.0632, 2460.0254, 2461.9956, 2463.9858, 2510.1277, 2528.1580, 2542.1509, 2545.1558,
 2547.1531, 2552.1038, 2565.1543, 2585.1111, 2601.0889, 2705.2192, 2717.0693, 3129.3176, 3208.1736, 3223.2710, 3290.4131, 3291.4248, 3312.2756, 3451.3933, 3453.4365
 F1MYS7 Mass: 68834
                                                Score: 25
                                                                          Expect: 84 Matches: 16
  Uncharacterized protein OS=Bos taurus GN=EIF4B PE=1 SV=1
   Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide
                                            712.4092 23.7 399 - 403 1 --- R.RPRER.H
827.3773 6.99 129 - 135 0 --- R.EPSNPER
                        712.4261
828.3904 827.3831 827.3773 6.99 129 - 135 0 --- R.EPSNPER.L
836.4589 835.4516 835.4626 -13.17 473 - 480 0 --- K.VMPAPPPK.E
839.3696 838.3623 838.3569 6.39 287 - 292 1 --- R.RDDDYR.G
845.4100 844.4027 844.3926 12.0 579 - 586 0 15 K.AEENPASK.F
845.4123 844.4050 844.3926 14.7 579 - 586 0 --- K.AEENPASK.F
852.4056 851.3984 851.3886 11.5 180 - 186 1 --- R.DDRSFGR.D
930.5048 929.4975 929.4930 4.81 383 - 389 1 --- K.EQEKLQR.Q
1165.5817 1164.5744 1164.6000 -21.93 324 - 333 1 --- R.DDRGFPQRPK.L
1342.6680 1341.6607 1341.6888 -20.95 512 - 524 0 --- K.VVPAQLSEEGSAR.K
1357.7034 1356.6961 1356.6997 -2.66 166 - 177 1 --- R.IRVDVADQAQDK.D
1579.7926 1578.7853 1578.8228 -23.75 473 - 486 1 --- K.VMPAPPPKENAWVK.R + Oxidation (M)
1628.8260 1627.8187 1627.8278 -5.57 166 - 179 2 --- R.IRVDVADQAQDKDR.D
2013.8983 2012.8910 2012.9049 -6.89 538 - 557 2 --- K.GQSGSSSRGFGGGGNKDHWK.E
2352.0571 2351.0498 2351.0567 -2.92 195 - 214 1 --- K.TDTDWRARPAADSFDDYPPR.R
2390.0403 2389.0330 2389.0742 -17.23 488 - 511 1 --- R.SSNPPARSQSSDTEQQSPTSGGGK.V
No match to: 719.2388, 724.33009, 726.2899, 732.2586, 735.3865, 745.4124, 756.4687, 764.4056, 765.
                                                                                                                      R.EPSNPER.L
  No match to: 719.2388, 724.3009, 726.2899, 732.2586, 735.3865, 745.4124, 756.4687, 764.4056, 765.3908, 767.3679, 768.3909,
  772.3955, 795.4186, 802.4548, 803.4370, 805.4229, 806.4631, 807.3893, 809.4480, 811.4104, 812.3985, 816.4408, 820.4244, 822.3905, 823.3846, 824.3756, 834.4043, 837.3853, 840.3839, 842.5085, 851.3975, 856.4893, 866.3914, 867.3724, 870.5402, 871.4945, 878.4625, 880.4403, 886.3815, 888.4233, 890.4479, 893.9562, 894.4579, 897.0289, 897.4412, 902.4597, 910.4410, 912.4497, 913.5118, 916.4905,
  918.5391, 925.4747, 928.5064, 933.4619, 935.4698, 939.4758, 947.4628, 949.4591, 951.4703, 954.4674, 957.4657, 963.4676, 965.4761, 967.4568, 969.4571, 972.4793, 972.4800, 975.4650, 977.4630, 978.4976, 981.4565, 983.4664, 985.4842, 991.4688, 993.5331, 997.4298,
  999.4453, 1001.4488, 1003.4687, 1007.5668, 1018.5200, 1018.5212, 1023.4777, 1026.4922, 1027.4972, 1030.5151, 1031.3850, 1033.5419, 1035.5352, 1036.5372, 1039.5402, 1042.5383, 1045.5654, 1056.5488, 1060.5400, 1060.5442, 1065.5425, 1086.5115, 1106.5372, 1111.5582,
  1113.5546, 1114.5396, 1115.5605, 1118.5529, 1122.5363, 1128.5775, 1129.6014, 1130.5935, 1140.5485, 1144.5709, 1155.6113, 1156.5720,
  1157.5952, 1158.6154, 1159.6273, 1172.6301, 1173.6259, 1179.6063, 1180.6165, 1182.6090, 1183.6123, 1185.6317, 1187.6431, 1193.6096, 1195.6060, 1196.6102, 1206.6770, 1209.1387, 1209.5848, 1210.1014, 1215.6627, 1216.6494, 1222.5994, 1226.5948, 1229.6246, 1231.6174,
  1234.6317, 1235.5846, 1240.6298, 1244.6324, 1248.6119, 1250.6144, 1268.6498, 1271.6696, 1273.6653, 1275.6644, 1291.6425, 1295.7233, 1300.6062, 1301.6205, 1307.6858, 1315.6570, 1317.6521, 1319.6852, 1323.6517, 1325.6637, 1328.6809, 1329.6672, 1331.6763, 1332.6743,
   1334.6592, 1335.6937, 1336.6715, 1337.6724,
                                                                                    1338.6471, 1345.6760, 1346.6880, 1349.6991, 1354.6907, 1355.7155, 1360.6882,
  1365.6913, 1368.6920, 1374.6412, 1375.6798, 1376.6804, 1377.6794, 1382.6647, 1387.6444, 1410.7505, 1411.7208, 1421.7177, 1427.7872,
   1431.7961, 1432.7133, 1434.7288, 1446.7256, 1450.7079, 1473.8054, 1475.7748, 1477.7524, 1478.7439, 1485.7720, 1486.7664, 1493.7539,
  1494.7423, 1505.8649, 1523.7841, 1524.7848, 1537.8021, 1549.7388, 1555.8816, 1558.8474, 1576.7987, 1584.7897, 1588.8136, 1590.3611, 1604.8417, 1605.8098, 1606.8384, 1615.8826, 1616.8605, 1622.8137, 1629.8358, 1630.8466, 1633.9790, 1635.7943, 1644.8046, 1647.8785,
  1649.8463, 1651.8245, 1659.8241, 1662.7909, 1668.7810, 1679.9736, 1681.8214, 1683.8121, 1684.8204, 1706.8616, 1707.7838, 1716.8571, 1725.8353, 1728.8242, 1734.8152, 1740.8768, 1742.9031, 1746.1659, 1750.8356, 1751.8787, 1753.8948, 1756.8905, 1757.8322, 1763.8188,
  1765.7690, 1767.8036, 1768.9027, 1769.4475, 1770.4261, 1774.9091, 1783.8499, 1786.9000, 1786.9017, 1791.7335, 1808.8868, 1824.8674,
  1840.8225, 1844.8907, 1848.8322, 1850.8301, 1851.8488, 1867.9503, 1880.9277, 1887.9734, 1908.8838, 1914.9995, 1919.0038, 1925.9418,
   1928.0103, 1931.9463, 1953.9353, 1975.9609, 1992.9642, 1995.9020, 2007.9894, 2011.8845, 2024.8591, 2025.6234, 2036.5195, 2036.9486,
  2042.0640, 2047.0167, 2047.9691, 2051.9792, 2052.9924, 2058.9963, 2060.0469, 2064.9900, 2068.8982, 2070.8835, 2074.8914, 2083.9907, 2084.8987, 2086.8828, 2092.8821, 2095.9941, 2098.9976, 2100.9160, 2102.8872, 2106.9011, 2108.8835, 2109.9175, 2114.9180, 2116.9160,
  2118.8835, 2119.8833, 2125.0176, 2132.8694, 2136.9180, 2170.1467, 2211.1045, 2225.1191, 2273.0496, 2277.0137, 2307.9941, 2322.9980,
  2341.0366, 2343.0271, 2355.0459, 2359.0532, 2366.0813, 2368.0544, 2369.0710, 2376.0264, 2382.0349, 2383.6099, 2383.9600, 2396.0342,
  2398.0576, 2400.0652, 2406.0737, 2411.0076, 2414.0813, 2416.0752, 2417.0732, 2420.0718, 2422.0408, 2423.0466, 2428.0898, 2430.0828,
 2431.0845, 2433.0779, 2436.0508, 2438.0457, 2439.0261, 2442.0618, 2449.0347, 2452.0632, 2460.0254, 2461.9956, 2463.9858, 2510.1277, 2528.1580, 2542.1509, 2545.1558, 2547.1531, 2552.1038, 2565.1543, 2585.1111, 2601.0889, 2705.2192, 2717.0693, 3129.3176, 3208.1736,
  3223.2710, 3290.4131, 3291.4248, 3312.2756, 3451.3933, 3453.4365
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Mass: 218183 Score: 24
                                                                   Expect: 1e+002 Matches: 12
 Uncharacterized protein OS=Bos taurus GN=NCOA6 PE=4 SV=1
  Observed Mr(expt) Mr(calc) ppm Start End Miss Ions
                                                             8.21 1321 - 1328 1 ---
                     804.4156
                                        804.4090
                                                                                                             R.SSPGSSRK.T
  983.4664
                    982.4591
                                       982.4832 -24.54 1047 - 1055 0 ---
                                                                                                             R.GPLNPDSOR.M
                                                                                            0 ---
                                                                                                             K.QNNTNANKPK.K
 1128.5775 1127.5702 1127.5683 1.71 900 - 909
1126.5775 1127.5702 1127.5603 1.71 900 - 909 0 --- K.QNNTNANKPK.K

1165.5817 1164.5744 1164.5735 0.83 2026 - 2037 0 --- R.SSRPASASSSTK.V

1172.6301 1171.6228 1171.5945 24.1 1329 - 1339 1 --- K.AVPDEVKMVVPEDOCK.K

1328.6809 1327.6736 1327.6983 -18.61 1517 - 1529 0 --- K.ASVIPSLQDPSSK.E

1365.6913 1364.6840 1364.6725 8.48 54 - 64 2 --- K.GNIDDKDFKWK.L

1786.9000 1785.8927 1785.9221 -16.44 1294 - 1311 1 24 K.LDSVVVNSGKQSNSGAPK.R

1786.9017 1785.8944 1785.9221 -15.49 1294 - 1311 1 --- K.LDSVVVNSGKQSNSGAPK.R

1931.9463 1930.9390 1930.9717 -16.92 1083 - 1099 2 --- K.QRMPMPVNTPLGSTSRK.M + 2 Oxidation (M)

1953.9353 1952.9280 1952.9700 -21.48 1432 - 1448 1 --- K.AVPDEVKMVVPEDOCK.K
 1953.9353 1952.9280 1952.9700 -21.48 1432 - 1448 1 --- 2211.1045 2210.0972 2210.0424 24.8 2004 - 2023 2 ---
                                                                                                             K.AVPPQEVKMVVPEDQCK.K
                                                                                                             R.RNSRTDEPAVASESVENGHR.K
 No match to: 713.4334, 719.2388, 724.3009, 726.2899, 732.2586, 735.3865, 745.4124, 756.4687, 764.4056, 765.3908, 767.3679, 768.3909, 772.3955, 795.4186, 802.4548, 803.4370, 806.4631, 807.3893, 809.4480, 811.4104, 812.3985, 816.4408, 820.4244, 822.3905, 823.3846, 824.3756, 828.3904, 834.4043, 836.4589, 837.3853, 839.3696, 840.3839, 842.5085, 845.4100, 845.4123, 851.3975, 852.4056,
 856.4893, 866.3914, 867.3724, 870.5402, 871.4945, 878.4625, 880.4403, 886.3815, 888.4233, 890.4479, 893.9562, 894.4579, 897.0289, 897.4412, 902.4597, 910.4410, 912.4497, 913.5118, 916.4905, 918.5391, 925.4747, 928.5064, 930.5048, 933.4619, 935.4698, 939.4758,
 947.4628, 949.4591, 951.4703, 954.4674, 957.4657, 963.4676, 965.4761, 967.4568, 969.4571, 972.4793, 972.4800, 975.4650, 977. 978.4976, 981.4565, 985.4842, 991.4688, 993.5331, 997.4298, 999.4453, 1001.4488, 1003.4687, 1007.5668, 1018.5200, 1018.5212,
  1023.4777, 1026.4922, 1027.4972, 1030.5151, 1031.3850, 1033.5419, 1035.5352, 1036.5372, 1039.5402, 1042.5383, 1045.5654, 1056.5488,
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 1183.6123, 1185.6317, 1187.6431, 1193.6096, 1195.6060, 1196.6102, 1206.6770, 1209.1387, 1209.5848, 1210.1014, 1215.6627, 1216.6494,
 1222.5994, 1226.5948, 1229.6246, 1231.6174, 1234.6317, 1235.5846, 1240.6298, 1244.6324, 1248.6119, 1250.6144, 1268.6498, 1271.6696,
  1273.6653, 1275.6644, 1291.6425, 1295.7233, 1300.6062, 1301.6205, 1307.6858, 1315.6570, 1317.6521, 1319.6852, 1323.6517,
 1329.6672, 1331.6763, 1332.6743, 1334.6592, 1335.6937, 1336.6715, 1337.6724, 1338.6471, 1342.6680, 1345.6760, 1346.6880, 1349.6991,
  1354.6907, 1355.7155, 1357.7034, 1360.6882, 1361.6670, 1368.6920, 1374.6412, 1375.6798, 1376.6804, 1377.6794, 1382.6647, 1387.6444,
 1410.7505, 1411.7208, 1421.7177, 1427.7872, 1431.7961, 1432.7133, 1434.7288, 1446.7256, 1450.7079, 1473.8054, 1475.7748, 1477.7524, 1478.7439, 1485.7720, 1486.7664, 1493.7539, 1494.7423, 1505.8649, 1523.7841, 1524.7848, 1537.8021, 1549.7388, 1555.8816, 1558.8474,
 1576.7987, 1579.7926, 1584.7897, 1588.8136, 1590.3611, 1604.8417, 1605.8098, 1606.8384, 1615.8826, 1616.8605, 1622.8137, 1628.8260, 1629.8358, 1630.8466, 1633.9790, 1635.7943, 1644.8046, 1647.8785, 1649.8463, 1651.8245, 1659.8241, 1662.7909, 1668.7810, 1679.9736,
  1681.8214, 1683.8121, 1684.8204, 1706.8616, 1707.7838, 1716.8571, 1725.8353, 1728.8242, 1734.8152, 1740.8768, 1742.9031,
 1750.8356, 1751.8787, 1753.8948, 1756.8905, 1757.8322, 1763.8188, 1765.7690, 1767.8036, 1768.9027, 1769.4475, 1770.4261, 1774.9091,
  1783.8499, 1791.7335, 1808.8868, 1824.8674, 1840.8225, 1844.8907, 1848.8322, 1850.8301, 1851.8488, 1867.9503, 1880.9277, 1887.9734,
 1908.8838, 1914.9995, 1919.0038, 1925.9418, 1928.0103, 1975.9609, 1992.9642, 1995.9020, 2007.9894, 2011.8845, 2013.8983, 2024.8591, 2025.6234, 2036.5195, 2036.9486, 2042.0640, 2047.0167, 2047.9691, 2051.9792, 2052.9924, 2058.9963, 2060.0469, 2064.9900, 2068.8982,
 2070.8835, 2074.8914, 2083.9907, 2084.8987, 2086.8828, 2092.8821, 2095.9941, 2098.9976, 2100.9160, 2102.8872, 2106.9011, 2108.8835, 2109.9175, 2114.9180, 2116.9160, 2118.8835, 2119.8833, 2125.0176, 2132.8694, 2136.9180, 2170.1467, 2225.1191, 2273.0496, 2277.0137,
 2307.9941, 2322.9980, 2341.0366, 2343.0271, 2352.0571, 2355.0459, 2359.0532, 2366.0813, 2368.0544, 2369.0710, 2376.0264, 2382.0349
 2383.6099, 2383.9600, 2390.0403, 2396.0342, 2398.0576, 2400.0652, 2406.0737, 2411.0076, 2414.0813, 2416.0752, 2417.0732, 2420.0718, 2422.0408, 2423.0466, 2428.0898, 2430.0828, 2431.0845, 2433.0779, 2436.0508, 2438.0457, 2439.0261, 2442.0618, 2449.0347, 2452.0632,
 2460.0254, 2461.9956, 2463.9858, 2510.1277, 2528.1580, 2542.1509, 2545.1558, 2547.1531, 2552.1038, 2565.1543, 2585.1111, 2601.0889, 2705.2192, 2717.0693, 3129.3176, 3208.1736, 3223.2710, 3290.4131, 3291.4248, 3312.2756, 3451.3933, 3453.4365
 <u>A7Z060</u> Mass: 81637
                                         Score: 22
                                                                   Expect: 1.4e+002 Matches: 21
 RNF219 protein OS=Bos taurus GN=RNF219 PE=2 SV=1
                                       Mr(calc) ppm Start End Miss Ions Peptide
  Observed Mr (expt)
                                        806.3923 -12.72
                                                                       653 - 658 0 ---
                                                                                                           R.LFEDOR.F
                     822.3774
                                        822.3872 -11.91
                                                                       226 - 231 0 ---
  823.3846
                                                                                                          K.VEQYER.E
845.4100 844.4027 844.4151 -14.67 293 - 300 1 12 K.NQGDGARK.Q
845.4123 844.4050 844.4151 -11.96 293 - 300 1 --- K.NQGDGARK.Q
916.4905 915.4832 915.4886 -5.90 693 - 700 1 --- K.NQGDGARK.Q
967.4568 966.4495 966.4658 -16.84 166 - 173 0 --- R.TANBIYEK.V
1158.6154 1157.6081 1157.6265 -15.86 691 - 700 2 --- R.NKNVNQSAKR.K
1315.6570 1314.6497 1314.6819 -24.51 152 - 162 1 --- K.IDPETVAEWKK.R
1323.6517 1322.6444 1322.6215 17.4 226 - 235 1 --- K.VEQYERETNR.L
1382.6647 1381.6574 1381.6772 -14.31 502 - 512 1 --- R.INSLRSFEMMR.T + Oxidation (M)
1605.8098 1604.8025 1604.8369 -21.44 702 - 717 2 --- R.INSLRSFEMMR.T + Oxidation (M)
1658.9027 1767.8954 1767.9155 -11.37 217 - 231 1 --- R.FTVAALQSKVEQYER.E
1851.8488 1850.8415 1850.8833 -22.55 544 - 560 1 --- K.SPCNNGFKSLDLDGLSK.S
1880.9277 1879.9204 1879.8846 19.0 327 - 341 2 --- K.EAMMAICQRALSTIGKGSK.G
                     844.4027
                                        844.4151 -14.67
                                                                       293 - 300
                                                                                            1 12 K.NOGDGARK.O
1860.927/ 1679.3244 1879.8646 19.0 327 - 341 2 --- K.IEPRCSNNQDLIQAK.V
2036.9486 2035.9413 2035.9779 -17.95 265 - 283 2 --- K.EAMMAICQRALSTDGKGSK.G
2052.9924 2051.9851 2051.9728 6.01 265 - 283 2 --- K.EAMMAICQRALSTDGKGSK.G + Oxidation (M)
2086.8828 2085.8755 2085.9160 -19.43 561 - 577 1 --- K.SSQCSEFLEETDKLEER.T
2136.9180 2135.9107 2135.9603 -23.19 342 - 359 0 --- R.VETMLTVTDTSMDTYLER.E + 2 Oxidation (M)
2355.0459 2354.0386 2354.0808 -17.93 321 - 340 2 --- R.QEGTSKTEPNCSKNQDLYQK.R
 2510.1277 2509.1204 2509.1213 -0.35 507 - 528 2 --- R.SFEMNRTRTSSEASMDAAYLDK.I
 2542.1509 2541.1436 2541.1111
                                                                      507 - 528
                                                                                                          R.SFEMNRTRTSSEASMDAAYLDK.I + 2 Oxidation (M)
                                                           12.8
 No match to: 713.4334, 719.2388, 724.3009, 726.2899, 732.2586, 735.3865, 745.4124, 756.4687, 764.4056, 765.3908, 767.3679,
  768.3909, 772.3955, 795.4186, 802.4548, 803.4370, 805.4229, 806.4631, 809.4480, 811.4104, 812.3985, 816.4408, 820.4244, 822.3905,
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 1155.6113, 1156.5720, 1157.5952, 1159.6273, 1165.5817, 1172.6301, 1173.6259, 1179.6063, 1180.6165, 1182.6090, 1183.6123, 1185.6317, 1187.6431, 1193.6096, 1195.6060, 1196.6102, 1206.6770, 1209.1387, 1209.5848, 1210.1014, 1215.6627, 1216.6494, 1222.5994, 1226.5948,
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                    1335.6937, 1336.6715, 1337.6724,
                                                                            1338.6471, 1342.6680, 1345.6760, 1346.6880, 1349.6991,
                                                                                                                                                                          1354.6907, 1355.7155,
 1360.6882, 1361.6670, 1365.6913, 1368.6920, 1374.6412, 1375.6798, 1376.6804, 1377.6794, 1387.6444, 1410.7505, 1411.7208, 1421.7177
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  1588.8136, 1590.3611, 1604.8417, 1606.8384, 1615.8826, 1616.8605, 1622.8137, 1628.8260, 1629.8358, 1630.8466, 1633.9790, 1635.7943,
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 1757.8322, 1763.8188, 1765.7690, 1767.8036, 1769.4475, 1770.4261, 1774.9091, 1783.8499, 1786.9000, 1786.9017, 1791.7335, 1808.8868
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1824.8674, 1840.8225, 1844.8907, 1848.8322, 1850.8301, 1867.9503, 1887.9734, 1908.8838, 1914.9995, 1919.0038, 1925.9418, 1928.0103, 1931.9463, 1953.9353, 1975.9609, 1992.9642, 1995.9020, 2007.9894, 2011.8845, 2013.8983, 2024.8591, 2025.6234, 2036.5195, 2042.0640,
  2047.0167, 2047.9691, 2051.9792, 2058.9963, 2060.0469, 2064.9900, 2068.8982, 2070.8835, 2074.8914, 2083.9907, 2084.8987, 2092.8821,
  2095.9941, 2098.9976, 2100.9160, 2102.8872, 2106.9011, 2108.8835, 2109.9175, 2114.9180, 2116.9160, 2118.8835, 2119.8833, 2125.0176,
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 2366.0813, 2368.0544, 2369.0710, 2376.0264, 2382.0349, 2383.6099, 2383.9600, 2390.0403, 2396.0342, 2398.0576, 2400.0652, 2406.0737, 2411.0076, 2414.0813, 2416.0752, 2417.0732, 2420.0718, 2422.0408, 2423.0466, 2428.0898, 2430.0828, 2431.0845, 2433.0779, 2436.0508,
 2438.0457, 2439.0261, 2442.0618, 2449.0347, 2452.0632, 2460.0254, 2461.9956, 2463.9858, 2528.1580, 2545.1558, 2547.1531, 2552.1038, 2565.1543, 2585.1111, 2601.0889, 2705.2192, 2717.0693, 3129.3176, 3208.1736, 3223.2710, 3290.4131, 3291.4248, 3312.2756, 3451.3933,
 G5E523 Mass: 28080 Score: 20
                                                                                        Expect: 2.5e+002 Matches: 13
  Uncharacterized protein OS=Bos taurus GN=STAU2 PE=4 SV=1
   Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide
   880.4403
                            879.4330
                                                       879.4524 -22.05 203 - 209 0 --- R.EFVMQVK.V
 1036.5372 1035.5299 1035.5535 -22.79 202 - 209 1 --- R.REFVMQVK.V
1036.5372 1035.5299 1035.5535 -22.79 202 - 209 1 ---- R.REFVMQVK.V
1056.5488 1055.5415 1055.5335 7.64 1 - 8 1 --- R.YHCPYFK.I
1113.5546 1112.5473 1112.5509 -3.19 29 - 38 1 ---- R.QAARHNAAMK.A + Oxidation (M)
1179.6063 1178.5990 1178.6005 -1.29 84 - 93 0 ---- R.NMPVSFEVIK.E + Oxidation (M)
1319.6852 1318.6779 1318.7067 -21.84 83 - 93 1 ---- K.RNMPVSFEVIK.E + Oxidation (M)
1353.6937 1334.6864 1334.7016 -11.40 83 - 93 1 ---- K.RNMPVSFEVIK.E + Oxidation (M)
1354.6907 1353.6834 1353.7047 -15.75 27 - 38 2 ---- K.TRQAARHNAAMK.A
1421.7177 1420.7104 1420.7384 -19.68 228 - 240 0 ---- K.NAAEAMLLQLGYK.A
1477.7524 1476.7451 1476.7460 -0.58 185 - 196 1 ---- K.EKEPDYVLLSER.G
1605.8098 1604.8025 1604.8409 -23.94 184 - 196 2 ---- K.EKEPDYVLLSER.G
1919.0038 1917.9965 1917.9618 18.1 185 - 200 2 ---- K.EKEPDYVLLSER.G
2058.9963 2057.9890 2057.9914 -1.17 84 - 101 1 ---- R.NMPVSFEVIK.E + Oxidation (M)
No match to: 713.4334, 719.2388, 724.3009, 726.2899, 732.2586, 735.3865, 745.4124, 756.4687, 764.4056, 7
 No match to: 713.4334, 719.2388, 724.3009, 726.2899, 732.2586, 735.3865, 745.4124, 756.4687, 764.4056, 765.3908, 767.3679, 768.3909, 772.3955, 795.4186, 802.4548, 803.4370, 805.4229, 806.4631, 807.3893, 809.4480, 811.4104, 812.3985, 816.4408, 820.4244, 822.3905, 823.3846, 824.3756, 828.3904, 834.4043, 836.4589, 837.3853, 839.3696, 840.3839, 842.5085, 845.4100, 845.4123, 851.3975,
  852.4056, 856.4893, 866.3914, 867.3724, 870.5402, 871.4945, 878.4625, 886.3815, 888.4233, 890.4479, 893.9562, 894.4579, 897.0289, 897.4412, 902.4597, 910.4410, 912.4497, 913.5118, 916.4905, 918.5391, 925.4747, 928.5064, 930.5048, 933.4619, 935.4698, 939.4758,
 897.4412, 902.4597, 910.4410, 912.4497, 913.5118, 916.4905, 918.5391, 925.4747, 928.5064, 930.5048, 933.4619, 935.4698, 939.4758, 947.4628, 949.4591, 951.4703, 954.4674, 957.4657, 963.4676, 965.4761, 967.4568, 969.4571, 972.4793, 972.4800, 975.4650, 977.4630, 978.4976, 981.4565, 983.4664, 985.4842, 991.4688, 993.5331, 997.4298, 999.4453, 1001.4488, 1003.4687, 1007.5668, 1018.5200, 1018.5212, 1023.4777, 1026.4922, 1027.4972, 1030.5151, 1031.3850, 1033.5419, 1035.5352, 1039.5402, 1042.5383, 1045.5654, 1060.5402, 1060.5442, 1065.5425, 1086.5115, 1106.5372, 1111.5582, 1114.5396, 1115.5605, 1118.5529, 1122.5363, 1128.5775, 1129.6014, 1130.5935, 1140.5485, 1144.5709, 1155.6113, 1156.5720, 1157.5952, 1158.6154, 1159.6273, 1165.5817, 1172.6301, 1173.6259, 1180.6165, 1182.6090, 1183.6123, 1185.6317, 1187.6431, 1193.6096, 1195.6060, 1196.6102, 1206.6770, 1209.1387, 1209.5848, 1210.1014, 1215.6627, 1216.6494, 1222.5994, 1226.5948, 1229.6246, 1231.6174, 1234.6317, 1235.5846, 1240.6298, 1244.6324, 1248.6119, 1250.6144, 1268.6498, 1271.6696, 1273.6563, 1273.6644, 1287.6432, 1287.6637, 1287.6696, 1273.6637, 1287.6637, 1287.6637, 1287.6696, 1277.326.6637, 1287.6637, 1287.6637
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  1588.8136, 1590.3611, 1604.8417, 1606.8384, 1615.8826, 1616.8605, 1622.8137, 1628.8260, 1629.8358, 1630.8466, 1633.9790, 1635.7943, 1644.8046, 1647.8785, 1649.8463, 1651.8245, 1659.8241, 1662.7909, 1668.7810, 1679.9736, 1681.8214, 1683.8121, 1684.8204, 1706.8616,
  1707.7838, 1716.8571, 1725.8353, 1728.8242, 1734.8152, 1740.8768, 1742.9031, 1746.1659, 1750.8356, 1751.8787, 1753.8948, 1756.8905, 1757.8322, 1763.8188, 1765.7690, 1767.8036, 1768.9027, 1769.4475, 1770.4261, 1774.9091, 1783.8499, 1786.9000, 1786.9017, 1791.7335, 1808.8868, 1824.8674, 1840.8225, 1844.8907, 1848.8322, 1850.8301, 1851.8488, 1867.9503, 1880.9277, 1887.9734, 1908.8838, 1914.9995,
  1925.9418, 1928.0103, 1931.9463, 1953.9353, 1975.9609, 1992.9642, 1995.9020, 2007.9894, 2011.8845, 2013.8983, 2024.8591, 2025.6234, 2036.5195, 2036.9486, 2042.0640, 2047.0167, 2047.9691, 2051.9792, 2052.9924, 2060.0469, 2064.9900, 2068.8982, 2070.8835, 2074.8914,
  2083.9907, 2084.8987, 2086.8828, 2092.8821, 2095.9941, 2098.9976, 2100.9160, 2102.8872, 2106.9011, 2108.8835, 2109.9175, 2114.9180, 2116.9160, 2118.8835, 2119.8833, 2125.0176, 2132.8694, 2136.9180, 2170.1467, 2211.1045, 2225.1191, 2273.0496, 2277.0137, 2307.9941,
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  2423.0466, 2428.0898, 2430.0828, 2431.0845, 2433.0779, 2436.0508, 2438.0457, 2439.0261, 2442.0618, 2449.0347, 2452.0632, 2460.0254
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                        Mass: 32975 Score: 20
                                                                                             Expect: 2.5e+002 Matches: 14
  LOC535277 protein OS=Bos taurus GN=LOC535277 PE=1 SV=1

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End
        Miss
        Ions
        Peptide

        802.4548
        801.4475
        801.4344
        16.3
        199 - 205
        0
        ---
        K.NVTNN

                                                                                  16.3 199 - 205 0 --- K.NVTNNLK.S
                                                       833.4130 -19.20
                                                                                                  206 - 213
                                                                                                                               0 ---
834.4043 833.3970 833.4130 -19.20 206 - 213 0 --- K.SLEAASEK.Y
866.3914 865.3841 865.3851 -1.11 134 - 140 1 --- R.AMKDEKK.M + Oxidation (M)
894.4579 893.4507 893.4606 -11.16 162 - 168 1 --- K.YEEVARK.L
1165.5817 1164.5744 1164.5518 19.4 141 - 149 0 --- K.MEIQEMQLK.E + Oxidation (M)
1268.6498 1267.6425 1267.6156 21.2 150 - 160 1 --- K.EAKHIAEEADR.K
1332.6743 1331.6670 1331.6820 -11.24 249 - 259 1 --- K.LEKTIDDLEEK.L
1431.7961 1430.7888 1430.7616 19.0 66 - 77 2 --- K.DAQEKLEITEKK.A
1473.8054 1472.7981 1472.7722 17.6 252 - 264 1 --- K.TIDDLEEK.LQAK.E
1493.7539 1492.7466 1492.7265 13.5 141 - 152 1 --- K.MEIQEMQLKEAK.H
1493.7539 1492.7466 1492.7265 13.5 141 - 152 1 --- K.MEIQEMQLKEAK.H + Oxidation (M)
1928.0103 1927.0030 1927.0374 -17.83 102 - 118 2 --- R.AQERLATALQKLEEAEK.A
1931.9463 1930.9390 1930.9232 8.22 13 - 29 2 --- K.DKENNIDRAEQAESDK.K
1953.9353 1952.9280 1952.9578 -15.25 50 - 65 2 --- K.LEKTEDELDKYSENLK.D

No match to: 713.4334, 719.2388, 724.3009, 726.2899, 732.2586, 735.3865, 745.4124, 756.4687, 76
   834.4043
                             833.3970
                                                                                                                                                    K.SLEAASEK.Y
  No match to: 713.4334, 719.2388, 724.3009, 726.2899, 732.2586, 735.3865, 745.4124, 756.4687, 764.4056, 765.3908, 767.3679,
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            3129.3176, 3208.1736, 3223.2710, 3290.4131, 3291.4248, 3312.2756, 3451.3933, 3453.4365
           G3N219 Mass: 3783
                                                         Score: 20
                                                                                       Expect: 2.7e+002 Matches: 4
           Uncharacterized protein OS=Bos taurus PE=4 SV=1

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss Ions
        Peptide

        935.4698
        934.4625
        934.4654
        -3.11
        24 - 31
        1 ---
        K.LRNACSSK.E

        1410.7505
        1409.7432
        1409.7370
        4.38
        14 - 25
        1 ---
        K.SLQMVTATMKI

                                                                                                                                 K.SLQMVTATMKLR.N + 2 Oxidation (M)
           1421.7177 1420.7104 1420.6802 21.2 24 - 35 2 --- K.SLQMYTATMKINANCY 2 Oxidation (M)
2042.0640 2041.0567 2041.0118 22.0 14 - 31 2 --- K.SLQMYTATMKINANCSSK.E + Oxidation (M)
No match to: 713.4334, 719.2388, 724.3009, 726.2899, 732.2586, 735.3865, 745.4124, 756.4687, 764.4056, 765.3908, 767.3679,
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                                                                                       Expect: 2.8e+002 Matches: 18
14. <u>G3X6N6</u> Mass: 52918
                                                           Score: 19
         Uncharacterized protein OS=Bos taurus PE=4 SV=1
            No match to: 713.4334, 719.2388, 724.3009, 726.2899, 732.2586, 735.3865, 745.4124, 756.4687, 764.4056, 765.3908, 767.3679,
            768.3909, 772.3955, 795.4186, 802.4548, 803.4370, 805.4229, 806.4631, 807.3893, 809.4480, 811.4104, 812.3985, 816.4408, 820.4244,
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            1486.7664, 1493.7539, 1505.8649, 1523.7841, 1524.7848, 1537.8021, 1549.7388, 1555.8816, 1558.8474, 1576.7987, 1579.7926, 1584.7897, 1588.8136, 1590.3611, 1604.8417, 1605.8098, 1606.8384, 1615.8826, 1616.8605, 1628.8260, 1629.8358, 1630.8466, 1633.9790, 1635.7943,
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                1953.9353, 1975.9609, 1992.9642, 1995.9020, 2007.9894, 2011.8845, 2013.8983, 2024.8591, 2025.6234, 2036.5195, 2036.9486, 2042.0640
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                2086.8828, 2092.8821, 2095.9941, 2098.9976, 2100.9160, 2102.8872, 2106.9011, 2108.8835, 2109.9175, 2114.9180, 2116.9160, 2118.8835,
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                3291.4248, 3312.2756, 3451.3933, 3453.4365
                                                                                                            Expect: 3e+002 Matches: 13
15. 05E9D0 Mass: 38604 Score: 19
                Eukaryotic translation initiation factor 2 subunit 2 OS=Bos taurus GN=EIF2S2 PE=2 SV=1
                                                                       | 1.2 | 209 | 215 | 216 | 217 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 
                 Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide
                                             763.3984
                                            794.4114
              795.4186 794.4114 794.4109 0.60 183 - 188 0 --- R.VFNIMR.E + Oxidation (N 871.4945 870.4872 870.4923 -5.81 266 - 272 0 --- K.QIENVLR.R 1036.5372 1035.5299 1035.5535 -22.78 183 - 190 1 --- R.VFNIMREK.N 1244.6324 1243.6251 1243.6343 -7.36 191 - 201 2 --- K.NPDMVAGEKRK.F 1273.6653 1272.6580 1272.6674 -7.35 286 - 296 1 --- R.SPDTILQKDTR.L 1558.8474 1557.8401 1557.8739 -21.70 262 - 273 2 --- R.FQQKQIENVLRR.Y 1615.8826 1614.8753 1614.8954 -12.43 260 - 272 2 --- K.GRFQQKQIENVLR.R 1844.8907 1843.8834 1843.8518 17.1 1 - 16 2 --- MSGDEMIFPDTMSKKK.K 2352.0571 2351.0498 2351.0176 13.7 133 - 152 1 --- K.FPDDEVLEKDEALEDEDSK.K 2359.0532 2359.0459 2359.0919 -19.409 2373.315 1 --- R.JYLOGETGUSPSYNSLK.K
              2352.05/1 2351.0498 2351.0176 13.7 133 - 152 1 --- K.FPDEDEVLEKBEALEDEDSK.K
2359.0532 2358.0459 2358.0919 -19.49 297 - 315 1 --- R.LYFLQCETCHSRCSVASIK.T
2510.1277 2509.1204 2509.1166 1.52 21 - 42 0 --- K.KPFMLDEEGDAQTEETQPSETK.E
3291.4248 3290.4175 3290.4752 -17.53 154 - 182 1 --- K.DDGISFSNQTGPAWAGSERDYTYEELLNR.V
No match to: 713.4334, 719.2388, 724.3009, 726.2899, 732.2586, 735.3865, 745.4124, 756.4687, 765.3908, 767.3679, 768.3909,
                772.3955, 802.4548, 803.4370, 805.4229, 806.4631, 807.3893, 809.4480, 811.4104, 812.385, 816.4408, 820.4244, 822.3905, 823.3846, 824.3756, 828.3904, 834.4043, 836.4589, 837.3853, 839.3696, 840.3839, 842.5085, 845.4100, 845.4123, 851.3975, 852.4056, 856.4893, 866.3914, 867.3724, 870.5402, 878.4625, 880.4403, 886.3815, 888.4233, 890.4479, 893.9562, 894.4579, 897.0289, 897.4412, 902.4597,
                910.4410, 912.4497, 913.5118, 916.4905, 918.5391, 925.4747, 928.5064, 930.5048, 933.4619, 935.4698, 939.4758, 947.4628, 949.4591, 951.4703, 954.4674, 957.4657, 963.4676, 965.4761, 967.4568, 969.4571, 972.4793, 972.4800, 975.4650, 977.4630, 978.4976, 981.4565, 983.4664, 985.4842, 991.4688, 993.5331, 997.4298, 999.4453, 1001.4488, 1003.4687, 1007.5668, 1018.5200, 1018.5212, 1023.4777,
                1026.4922, 1027.4972, 1030.5151, 1031.3850, 1033.5419, 1035.5352, 1039.5402, 1042.5383, 1045.5654, 1056.5488, 1060.5400, 1060.5442, 1065.5425, 1086.5115, 1106.5372, 1111.5582, 1113.5546, 1114.5396, 1115.5605, 1118.5529, 1122.5363, 1128.5775, 1129.6014, 1130.5935,
                1140.5485, 1144.5709, 1155.6113, 1156.5720, 1157.5952, 1158.6154, 1159.6273, 1165.5817, 1172.6301, 1173.6259, 1179.6063, 1180.6165, 1182.6090, 1183.6123, 1185.6317, 1187.6431, 1193.6096, 1195.6060, 1196.6102, 1206.6770, 1209.1387, 1209.5848, 1210.1014, 1215.6627,
                1216.6494, 1222.5994, 1226.5948, 1229.6246, 1231.6174, 1234.6317, 1235.5846, 1240.6298, 1248.6119, 1250.6144, 1268.6498, 1271.6696, 1275.6644, 1291.6425, 1295.7233, 1300.6062, 1301.6205, 1307.6858, 1315.6570, 1317.6521, 1319.6852, 1323.6517, 1325.6637, 1328.6809,
                1329.6672, 1331.6763, 1332.6743, 1334.6592, 1335.6937, 1336.6715, 1337.6724, 1338.6471, 1342.6680, 1345.6760, 1346.6880, 1349.6991,
                1354.6907, 1355.7155, 1357.7034, 1360.6882, 1361.6670, 1365.6913, 1368.6920, 1374.6412, 1375.6798, 1376.6804, 1377.6794, 1382.6647, 1387.6444, 1410.7505, 1411.7208, 1421.7177, 1427.7872, 1431.7961, 1432.7133, 1434.7288, 1446.7256, 1450.7079, 1473.8054, 1475.7748,
                1477.7524, 1478.7439, 1485.7720, 1486.7664, 1493.7539, 1494.7423, 1505.8649, 1523.7841, 1524.7848, 1537.8021, 1549.7388, 1555.8816, 1576.7987, 1579.7926, 1584.7897, 1588.8136, 1590.3611, 1604.8417, 1605.8098, 1606.8384, 1616.8605, 1622.8137, 1628.8260, 1629.8358,
                1630.8466, 1633.9790, 1635.7943, 1644.8046, 1647.8785, 1649.8463, 1651.8245, 1659.8241, 1662.7909, 1668.7810, 1679.9736, 1681.8214, 1683.8121, 1684.8204, 1706.8616, 1707.7838, 1716.8571, 1725.8353, 1728.8242, 1734.8152, 1740.8768, 1742.9031, 1746.1659, 1750.8356,
                 1751.8787, 1753.8948, 1756.8905, 1757.8322, 1763.8188, 1765.7690, 1767.8036, 1768.9027, 1769.4475, 1770.4261, 1774.9091, 1783.8499,
                1786.9000, 1786.9017, 1791.7335, 1808.8868, 1824.8674, 1840.8225, 1848.8322, 1850.8301, 1851.8488, 1867.9503, 1880.9277, 1887.9734, 1908.8838, 1914.9995, 1919.0038, 1925.9418, 1928.0103, 1931.9463, 1953.9353, 1975.9609, 1992.9642, 1995.9020, 2007.9894, 2011.8845,
                2013.8983, 2024.8591, 2025.6234, 2036.5195, 2036.9486, 2042.0640, 2047.0167, 2047.9691, 2051.9792, 2052.9924, 2058.9963, 2060.0469, 2064.9900, 2068.8982, 2070.8835, 2074.8914, 2083.9907, 2084.8987, 2086.8828, 2092.8821, 2095.9941, 2098.9976, 2100.9160, 2102.8872,
               2106.9011, 2108.8835, 2109.9175, 2114.9180, 2116.9160, 2118.8835, 2119.8833, 2125.0176, 2132.8694, 2136.9180, 2170.1467, 2211.1045, 2225.1191, 2273.0496, 2277.0137, 2307.9941, 2322.9980, 2341.0366, 2343.0271, 2355.0459, 2366.0813, 2368.0544, 2369.0710, 2376.0264,
                2382.0349, 2383.6099, 2383.9600, 2390.0403, 2396.0342, 2398.0576, 2400.0652, 2406.0737, 2411.0076, 2414.0813, 2416.0752, 2417.0732,
               2420.0718, 2422.0408, 2423.0466, 2428.0898, 2430.0828, 2431.0845, 2433.0779, 2436.0508, 2438.0457, 2439.0261, 2442.0618, 2449.0347, 2452.0632, 2460.0254, 2461.9956, 2463.9858, 2528.1580, 2542.1509, 2545.1558, 2547.1531, 2552.1038, 2565.1543, 2585.1111, 2601.0889,
               2705.2192,\ 2717.0693,\ 3129.3176,\ 3208.1736,\ 3223.2710,\ 3290.4131,\ 3312.2756,\ 3451.3933,\ 3453.4365
                                              Mass: 38576
                                                                                     Score: 19
                                                                                                                         Expect: 3e+002 Matches: 13
               Eukaryotic translation initiation factor 2 subunit 2 OS=Bos taurus GN=EIF2S2 PE=1 SV=1

        Cobserved Mr (expt)
        Mr (calc)
        ppm Start
        End Miss Ions
        Peptide

        764.4056
        763.3984
        763.3898
        11.2
        309 - 315
        0 ---
        R.CSVASIK.T

        795.4186
        794.4114
        794.4109
        0.60
        183 - 188
        0 ---
        R.VFNIMR.E + Oxidation (M)

        871.4945
        870.4872
        870.4923
        -5.81
        266 - 272
        0 ---
        K.VFNIMR.E + Oxidation (M)

        1244.6324
        1243.6251
        1243.6343
        -7.36
        191 - 201
        2 ---
        K.NPDMVAGEKRK.F

        1273.6653
        1272.6580
        1272.6674
        -7.35
        286 - 296
        1 ---
        R.SPDTILQKDTR.L

        1558.8474
        1557.8401
        1557.8739
        -21.70
        262 - 273
        2 ---
        K.GRFQQKQIENVLRR.Y

        1615.8826
        1614.8753
        1614.8954
        -12.43
        260 - 272
        2 ---
        K.GRFQQKQIENVLR.R

        1844.8907
        1843.8834
        1843.8518
        17.1
        1 - 16
        2 ---
        R.SGDMIFDPTMSKKK.K

        2352.0571
        2351.0498
        2351.0176
        13.7
        133 - 152
        1 ---
        R.FYPLOCETCHSRCSVASIK.T

               No match to: 713.4334, 719.2388, 724.3009, 726.2899, 732.2586, 735.3865, 745.4124, 756.4687, 765.3908, 767.3679, 768.3909, 772.3955, 802.4548, 803.4370, 805.4229, 806.4631, 807.3893, 809.4480, 811.4104, 812.3985, 816.4408, 820.4244, 822.3905, 823.3846, 824.3756, 828.3904, 834.4043, 836.4589, 837.3853, 839.3696, 840.3839, 842.5085, 845.4100, 845.4123, 851.3975, 852.4056, 856.4893, 866.3914, 867.3724, 870.5402, 878.4625, 880.4403, 886.3815, 888.4233, 890.4479, 893.3562, 894.4579, 897.0289, 897.4412, 902.4597,
                910.4410, 912.4497, 913.5118, 916.4905, 918.5391, 925.4747, 928.5064, 930.5048, 933.4619, 935.4698, 939.4758, 947.4628, 949.4591, 951.4703, 954.4674, 957.4657, 963.4676, 965.4761, 967.4568, 969.4571, 972.4793, 972.4800, 975.4650, 977.4630, 978.4976, 981.4565, 983.4664, 985.4842, 991.4688, 993.5331, 997.4298, 999.4453, 1001.4488, 1003.4687, 1007.5668, 1018.5200, 1018.5212, 1023.4777,
                1026.4922, 1027.4972, 1030.5151, 1031.3850, 1033.5419, 1035.5352, 1039.5402, 1042.5383, 1045.5654, 1056.5488, 1060.5400, 1060.5442, 1065.5425, 1086.5115, 1106.5372, 1111.5582, 1113.5546, 1114.5396, 1115.5605, 1118.5529, 1122.5363, 1128.5775, 1129.6014, 1130.5935,
                1140.5485, 1144.5709, 1155.6113, 1156.5720, 1157.5952, 1158.6154, 1159.6273, 1165.5817, 1172.6301, 1173.6259, 1179.6063, 1180.6165,
                1182.6090, 1183.6123, 1185.6317, 1187.6431, 1193.6096, 1195.6060, 1196.6102, 1206.6770, 1209.1387, 1209.5848, 1210.1014, 1215.6627
                1216.6494, 1222.5994, 1226.5948, 1229.6246, 1231.6174, 1234.6317, 1235.5846, 1240.6298, 1248.6119, 1250.6144, 1268.6498, 1271.6696,
                1275.6644, 1291.6425, 1295.7233, 1300.6062, 1301.6205, 1307.6858, 1315.6570, 1317.6521, 1319.6852, 1323.6517, 1325.6637, 1328.6809, 1329.6672, 1331.6763, 1332.6743, 1334.6592, 1335.6937, 1336.6715, 1337.6724, 1338.6471, 1342.6680, 1345.6760, 1346.6880, 1349.6991,
                1354.6907, 1355.7155, 1357.7034, 1360.6882, 1361.6670, 1365.6913, 1368.6920, 1374.6412, 1375.6798, 1376.6804, 1377.6794, 1382.6647, 1387.6444, 1410.7505, 1411.7208, 1421.7177, 1427.7872, 1431.7961, 1432.7133, 1434.7288, 1446.7256, 1450.7079, 1473.8054, 1475.7748,
                1477.7524, 1478.7439, 1485.7720, 1486.7664, 1493.7539, 1494.7423, 1505.8649, 1523.7841, 1524.7848, 1537.8021, 1549.7388, 1555.8816, 1576.7987, 1579.7926, 1584.7897, 1588.8136, 1590.3611, 1604.8417, 1605.8098, 1606.8384, 1616.8605, 1622.8137, 1628.8260, 1629.8358,
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```
1630.8466, 1633.9790, 1635.7943, 1644.8046, 1647.8785, 1649.8463, 1651.8245, 1659.8241, 1662.7909, 1668.7810, 1679.9736, 1681.8214, 1683.8121, 1684.8204, 1706.8616, 1707.7838, 1716.8571, 1725.8353, 1728.8242, 1734.8152, 1740.8768, 1742.9031, 1746.1659, 1750.8356,
  1751.8787, 1753.8948, 1756.8905, 1757.8322, 1763.8188, 1765.7690, 1767.8036, 1768.9027, 1769.4475, 1770.4261, 1774.9091, 1783.8499
  1786.9000, 1786.9017, 1791.7335, 1808.8868, 1824.8674, 1840.8225, 1848.8322, 1850.8301, 1851.8488, 1867.9503, 1880.9277, 1887.9734,
   1908.8838, 1914.9995, 1919.0038, 1925.9418, 1928.0103, 1931.9463, 1953.9353, 1975.9609, 1992.9642, 1995.9020, 2007.9894, 2011.8845,
  2013.8983, 2024.8591, 2025.6234, 2036.5195, 2036.9486, 2042.0640, 2047.0167, 2047.9691, 2051.9792, 2052.9924, 2058.9963, 2060.0469, 2064.9900, 2068.8982, 2070.8835, 2074.8914, 2083.9907, 2084.8987, 2086.8828, 2092.8821, 2095.9941, 2098.9976, 2100.9160, 2102.8872,
  2106.9011, 2108.8835, 2109.9175, 2114.9180, 2116.9160, 2118.8835, 2119.8833, 2125.0176, 2132.8694, 2136.9180, 2170.1467, 2211.1045, 2225.1191, 2273.0496, 2277.0137, 2307.9941, 2322.9980, 2341.0366, 2343.0271, 2355.0459, 2366.0813, 2368.0544, 2369.0710, 2376.0264,
  2382.0349, 2383.6099, 2383.9600, 2390.0403, 2396.0342, 2398.0576, 2400.0652, 2406.0737, 2411.0076, 2414.0813, 2416.0752, 2417.0732,
  2420.0718, 2422.0408, 2423.0466, 2428.0898, 2430.0828, 2431.0845, 2433.0779, 2436.0508, 2438.0457, 2439.0261, 2442.0618, 2449.0347, 2452.0632, 2460.0254, 2461.9956, 2463.9858, 2528.1580, 2542.1509, 2545.1558, 2547.1531, 2552.1038, 2565.1543, 2585.1111, 2601.0889,
  2705.2192, 2717.0693, 3129.3176, 3208.1736, 3223.2710, 3290.4131, 3312.2756, 3451.3933, 3453.4365
 E1BDF0
                       Mass: 81113
                                                          Score: 19
                                                                                                Expect: 3e+002 Matches: 24
  Uncharacterized protein OS=Bos taurus GN=NEXN PE=4 SV=2
   Observed

        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss Ions
        Peptide

        801.4475
        801.4344
        16.3
        531 - 536
        1
        ---
        R.RIEEQ

   802.4548
                                                                                                                                                        R.RIEEQK.L
                              802.4297
                                                         802.4184 14.1
   803.4370
                                                                                                     466 - 471
                                                                                                                                                          K.KIEEER.A
                                                        815.4474 -17.02 46 - 51 2 --- R.NQRRSR.D
   816.4408
                             815.4335
                                                        819.4351 -21.97 343 - 349 1 --- K.AFAEARR.S
835.4552 -4.29 58 - 63 1 --- R.KEQYIR.E
   820.4244
                             819.4171
   836.4589
                             835.4516
                                                       835.4552 -4.29 58 - 63 1 --- R.KEQYIR.E

838.3821 -23.58 204 - 209 1 --- K.YEEDKR.I

850.3855 5.64 1 - 7 0 --- -.MNDISQK.A + Oxidation (M)

877.4406 16.7 280 - 286 1 --- R.AFEEARR.Q

901.4617 -10.33 467 - 473 1 --- K.IEEERAR.R

909.4443 -11.62 202 - 208 1 --- R.VKYEEDK.R

917.5447 -14.04 304 - 311 1 --- K.GYRPGKLK.L

938.4531 16.4 104 - 111 1 --- K.GKFAEMEK.Q

948.4665 -15.50 406 - 412 0 --- K.QEFEQLR.Q
   839.3696
                             838.3623
   851.3975
                             850.3902
                             877.4552
   878.4625
   902.4597
                             901.4524
   910.4410
                             909.4338
   918 5391
                             917 5318
   939.4758
                             938.4686
   949 4591
                            948 4518
 948.4316 948.4316 948.4363 -15.30 406 - 412 0 --- R.QEFEQER.Q

975.4650 974.4578 974.4417 16.5 525 - 531 1 --- R.EEEEQRR.I

993.5331 992.5258 992.5039 22.1 59 - 65 1 --- K.EQYIRER.E

1036.5372 1035.5299 1035.5237 6.06 249 - 256 0 --- K.LTFEELER.Q

1056.5488 1055.5415 1055.5359 5.30 393 - 400 2 --- R.TEEERKHK.L
1055.5488 1055.5415 1055.5359 5.30 393 - 400 2 --- R.TEEERKHK.L

1172.6301 1171.6228 1171.6448 -18.79 363 - 373 0 --- K.TISQESLIPGK.L

1195.6060 1194.5987 1194.5880 8.95 200 - 208 2 --- K.ERVKYEEDK.R

1307.6858 1306.6785 1306.6517 20.5 187 - 196 2 --- K.KNFEDIEKER.E

1376.6804 1375.6731 1375.6514 15.8 520 - 530 2 --- R.MAKAREEEEQR.R

1579.7926 1578.7853 1578.7711 8.98 401 - 412 1 --- K.LEMEKQEFEQLR.Q

1844.8907 1843.8834 1843.9250 -22.56 399 - 412 2 --- K.HKLEMEKQEFEQLR.Q

2211.1045 2210.0972 2210.0446 23.8 221 - 239 2 --- K.ERKCLSLVMDDELESEAKK.E + Oxidation (M)
  No match to: 713.4334, 719.2388, 724.3009, 726.2899, 732.2586, 735.3865, 745.4124, 756.4687, 764.4056, 765.3908, 767.3679, 768.3909, 772.3955, 795.4186, 805.4229, 806.4631, 807.3893, 809.4480, 811.4104, 812.3985, 822.3905, 823.3846, 824.3756, 828.3904, 834.4043, 837.3853, 840.3839, 842.5085, 845.4100, 845.4123, 852.4056, 856.4893, 866.3914, 867.3724, 870.5402, 871.4945, 880.4403,
  886.3815, \ 888.4233, \ 890.4479, \ 893.9562, \ 894.4579, \ 897.0289, \ 897.4412, \ 912.4497, \ 913.5118, \ 916.4905, \ 925.4747, \ 928.5064, \ 933.4619, \ 935.4698, \ 947.4628, \ 951.4703, \ 954.4674, \ 957.4657, \ 963.4676, \ 965.4761, \ 967.4568, \ 969.4571, \ 972.4793, \ 972.4800, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.4628, \ 947.
                                                                                                                                                                                                                                                                                                      930 5048.
  988.4976, 981.4565, 983.4664, 985.4842, 991.4688, 997.4298, 999.4453, 1001.4488, 1003.4687, 1007.5668, 1018.5200, 1018.5212, 1023.4777, 1026.4922, 1027.4972, 1030.5151, 1031.3850, 1033.5419, 1035.5352, 1039.5402, 1042.5383, 1045.5654, 1060.5400, 1060.5442, 1065.5452, 1086.5115, 1106.5372, 1111.5582, 1131.5546, 1114.55695, 1118.5529, 1122.5363, 1128.5775, 1129.6063, 1039.5935, 1140.5485, 1144.5709, 1155.6113, 1156.5720, 1157.5952, 1158.6154, 1159.6273, 1165.5817, 1173.6259, 1179.6063, 1180.6165, 1182.6090,
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  1355.7155, 1357.7034, 1360.6882, 1361.6670, 1365.6913, 1368.6920, 1374.6412, 1375.6798, 1377.6794, 1382.6647, 1387.6444, 1410.7505,
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  1485.7720, 1486.7664, 1493.7539, 1494.7423, 1505.8649, 1523.7841, 1524.7848, 1537.8021, 1549.7388, 1555.8816, 1558.8474, 1576.7987,
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  1633.9790, 1635.7943, 1644.8046, 1647.8785, 1649.8463, 1651.8245, 1659.8241, 1662.7909, 1668.7810, 1679.9736, 1681.8214, 1683.8121, 1684.8204, 1706.8616, 1707.7838, 1716.8571, 1725.8353, 1728.8242, 1734.8152, 1740.8768, 1742.9031, 1746.1659, 1750.8356, 1751.8787,
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  2108.8835, 2109.9175, 2114.9180, 2116.9160, 2118.8835, 2119.8833, 2125.0176, 2132.8694, 2136.9180, 2170.1467, 2225.1191, 2273.0496, 2277.0137, 2307.9941, 2322.9980, 2341.0366, 2343.0271, 2352.0571, 2355.0459, 2359.0532, 2366.0813, 2368.0544, 2369.0710, 2376.0264,
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  2452.0632, 2460.0254, 2461.9956, 2463.9858, 2510.1277, 2528.1580, 2542.1509, 2545.1558, 2547.1531, 2552.1038, 2565.1543, 2585.1111,
  2601.0889, 2705.2192, 2717.0693, 3129.3176, 3208.1736, 3223.2710, 3290.4131, 3291.4248, 3312.2756, 3451.3933, 3453.4365
 02TBK0 Mass: 39253 Score: 19
                                                                                              Expect: 3e+002 Matches: 14
  Uncharacterized protein C6orf163 homolog OS=Bos taurus PE=2 SV=1 \,

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss
        Ions
        Peptide

        765.3908
        764.3835
        764.3738
        12.7
        247 - 253
        0
        ---
        K.LGSVMDK.L + Oxidation (M)

        852.4056
        851.3984
        851.4171
        -21.99
        118 - 124
        1
        ---
        K.EMATRTK.M + Oxidation (M)

765.3908 764.3835 764.3738 12.7 247 - 253 0 --- K.LGSVMDK.L + Oxidation (M) 852.4056 851.3984 851.4171 -21.99 118 - 124 1 --- K.EMATRTK.M + Oxidation (M) 1030.5151 1029.5078 1029.5090 -1.19 130 - 137 0 --- K.KLEARATRTK.M + Oxidation (M) 1205.6697 1205.66438 21.5 115 - 124 2 --- K.ELKEMATRTK.M 1215.6627 1214.6554 1214.6295 21.3 71 - 81 0 --- R.IAQAEADIWAK.A 1332.6743 1331.6670 1331.6503 12.5 174 - 184 0 --- R.LMAQEEIQSQR.R 1616.8605 1615.8532 1615.8464 4.24 174 - 186 2 --- R.LMAQEEIQSQR.R 1662.7909 1661.7836 1661.7800 2.20 150 - 161 2 --- R.IQRIMMECHREK.V + 2 Oxidation (M) 1753.8948 1752.8875 1752.8716 9.09 88 - 102 2 --- K.MQLHKNLEEELQR.E + Oxidation (M) 1867.9503 1866.9430 1866.9067 19.5 187 - 203 1 --- K.AMELMSSGVTVVKDQK.K + Oxidation (M) 1953.9353 1952.9280 1952.9479 -10.20 276 - 291 1 --- K.DFLEEELQETRAAFQK.Y 2 044.0094 2045.9912 8.91 170 - 185 2 --- R.EQRIMAQEEIQSQR.K + Oxidation (M) 2277.0137 2266.0064 2275.9959 4.63 1 - 18 1 --- M.REPUNDEVICOXVCNK.I + Oxidation (M) 2 --- M.REPUNDEVICOXVCNK.I + Oxidation (M) --- M.CONTRIVENTICOXVCNK.I 
 2277.0137 2276.0064 2275.9959
                                                                                                         1 - 18
                                                                                                                                  1 ---
                                                                                                                                                         -.MIRNPNYTNFVCCAVCNK.I + Oxidation (M)
                                                                                    4.63
  No match to: 713.4334, 719.2388, 724.3009, 726.2899, 732.2586, 735.3865, 745.4124, 756.4687, 764.4056, 767.3679, 768.3909,
      72.3955, 795.4186, 802.4548, 803.4370, 805.4229, 806.4631, 807.3893, 809.4480, 811.4104, 812.3985, 816.4408, 820.4244, 822.3905,
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  949.4591, 951.4703, 954.4674, 957.4657, 963.4676, 965.4761, 967.4568, 969.4571, 972.4793, 972.4800, 975.4650, 977.4630, 978.4800, 975.4650, 977.4630, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.4800, 978.48
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  1328.6809, 1329.6672, 1331.6763, 1334.6592, 1335.6937, 1336.6715, 1337.6724, 1338.6471, 1342.6680, 1345.6760, 1346.6880, 1349.6991, 1354.6907, 1355.7155, 1357.7034, 1360.6882, 1361.6670, 1365.6913, 1368.6920, 1374.6412, 1375.6798, 1376.6804, 1377.6794, 1382.6647,
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                        Mass: 19797 Score: 19
                                                                                                               Expect: 3.1e+002 Matches: 12
  Centrin-2 OS=Bos taurus GN=CETN2 PE=2 SV=1
   Observed Mr(expt) Mr(calc) ppm Start
 851.3975 850.3902 850.4106 -23.94 72 - 78 0 --- K.MISEIDK.E + Oxidation (M)
1234.6317 1233.6244 1233.6540 -23.94 55 - 65 1 --- K.VAMRALGFEPK.K + Oxidation (M)
| 1234.6317 | 1233.6244 | 1233.6540 | -23.94 | 55 - 65 | 1 | --- | K.VAMRALGEPEK.K + Oxidation (M) |
| 1323.6517 | 1322.6444 | 1322.6388 | 4.28 | 72 - 83 | 1 | --- | K.MISEIDKEGTGK.M + Oxidation (M) |
| 1432.7133 | 1431.7060 | 1431.6915 | 10.1 | 19 - 30 | 0 | --- | K.MISEIDKEGTGK.M + Oxidation (M) |
| 1478.7439 | 1477.7366 | 1477.7697 | -22.41 | 67 - 78 | 2 | --- | K.EIKKMISEIDK.E + Oxidation (M) |
| 1588.8136 | 1587.8063 | 1587.7926 | 8.63 | 18 - 30 | 1 | --- | K.EIKKMISEIDK.E + Oxidation (M) |
| 1716.8571 | 1715.8498 | 1715.8476 | -22.00 | 17 - 30 | 2 | --- | R.KRMSPKPELTEEQK.Q + Oxidation (M) |
| 2007.9894 | 2006.9821 | 2006.9731 | 4.49 | 152 - 168 | 2 | --- | R.KRMSPKPELTEEQK.Q + Oxidation (M) |
| 2036.9486 | 2035.9413 | 2035.9417 | -0.18 | 84 - 100 | 1 | --- | K.MNFSDFLTVMTQKMSEK.D + Oxidation (M) |
| 2068.8982 | 2067.8909 | 2067.9315 | -19.64 | 84 - 100 | 1 | --- | K.MNFSDFLTVMTQKMSEK.D + 2 Oxidation (M) |
| 2084.8987 | 2083.8914 | 2083.9265 | -16.81 | 84 - 100 | 1 | --- | K.MNFSDFLTVMTQKMSEK.D + 3 Oxidation (M) |
| 2084.8987 | 2083.8914 | 2083.9265 | -16.81 | 84 - 100 | 1 | --- | K.MNFSDFLTVMTQKMSEK.D + 3 Oxidation (M) |
| 2084.8987 | 2083.8914 | 2083.9265 | -16.81 | 84 - 100 | 1 | --- | K.MNFSDFLTVMTQKMSEK.D + 3 Oxidation (M) |
| 2084.8987 | 2083.8914 | 2083.9265 | -16.81 | 84 - 100 | 1 | --- | K.MNFSDFLTVMTQKMSEK.D + 3 Oxidation (M) |
| 2084.8987 | 2083.8914 | 2083.9265 | -16.81 | 84 - 100 | 1 | --- | K.MNFSDFLTVMTQKMSEK.D + 3 Oxidation (M) |
| 2084.8987 | 2083.8914 | 2083.9265 | -16.81 | 84 - 100 | 1 | --- | K.MNFSDFLTVMTQKMSEK.D + 3 Oxidation (M) |
| 2084.8987 | 2083.8914 | 2083.9265 | -16.81 | 84 - 100 | 1 | --- | K.MNFSDFLTVMTQKMSEK.D + 3 Oxidation (M) |
  No match to: 713.4334, 719.2388, 724.3009, 726.2899, 732.2586, 735.3865, 745.4124, 756.4687, 764.4056, 765.3908, 767.3679,
  768.3909, 772.3955, 795.4186, 802.4548, 803.4370, 805.4229, 806.4631, 807.3893, 809.4480, 811.4104, 812.3995, 816.4408, 820.4244, 822.3905, 823.3846, 824.3756, 828.3904, 834.4043, 836.4589, 837.3853, 839.3696, 840.3839, 842.5085, 845.4100, 845.4123, 852.4056,
  856.4893, 866.3914, 867.3724, 870.5402, 871.4945, 838.4625, 880.4403, 886.3815, 888.4233, 890.4479, 893.5562, 894.4579, 897.0289, 897.4412, 902.4597, 910.4410, 912.4497, 913.5118, 916.4905, 918.5391, 925.4747, 928.5064, 930.5048, 933.4619, 935.4698, 939.4758, 947.4628, 949.4591, 951.4703, 954.4674, 957.4657, 963.4676, 965.4761, 967.4568, 969.4571, 972.4793, 972.4800, 975.4650, 977.4630,
  978.4976, 981.4565, 983.4664, 985.4842, 991.4688, 993.5331, 997.4298, 999.4453, 1001.4488, 1003.4687, 1007.5668, 1018.5200, 1018.5212, 1023.4777, 1026.4922, 1027.4972, 1030.5151, 1031.3850, 1033.5419, 1035.5352, 1036.5372, 1039.5402, 1042.5383, 1045.5654,
  1056.5488, 1060.5400, 1060.5442, 1065.5425, 1086.5115, 1106.5372, 1111.5582, 1113.5546, 1114.5396, 1115.5605, 1118.5529, 1122.5363, 1128.5775, 1129.6014, 1130.5935, 1140.5485, 1144.5709, 1155.6113, 1156.5720, 1157.5952, 1158.6154, 1159.6273, 1165.5817, 1172.6301,
   1173.6259, 1179.6063, 1180.6165, 1182.6090, 1183.6123, 1185.6317, 1187.6431, 1193.6096, 1195.6060, 1196.6102, 1206.6770, 1209.1387
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  1376.6804, 1377.6794, 1382.6647, 1387.6444, 1410.7505, 1411.7208, 1421.7177, 1427.7872, 1431.7961, 1434.7288, 1446.7256, 1450.7079, 1473.8054, 1475.7748, 1477.7524, 1485.7720, 1486.7664, 1493.7539, 1494.7423, 1505.8649, 1523.7841, 1524.7848, 1537.8021, 1549.7388,
   1555.8816, 1558.8474, 1576.7987, 1579.7926, 1584.7897, 1590.3611, 1604.8417, 1605.8098, 1606.8384, 1615.8826, 1616.8605, 1622.8137,
 1628.8260, 1629.8358, 1630.8466, 1633.9790, 1635.7943, 1644.8046, 1647.8785, 1649.8463, 1651.8245, 1659.8241, 1662.7909, 1668.7810, 1679.9736, 1681.8214, 1683.8121, 1684.8204, 1706.8616, 1707.7838, 1725.8353, 1728.8242, 1734.8152, 1740.8768, 1742.9031, 1746.1659,
  1750.8356, 1751.8787, 1753.8948, 1756.8905, 1757.8322, 1763.8188, 1765.7690, 1767.8036, 1768.9027, 1769.4475, 1770.4261, 1774.9091, 1783.8499, 1786.9000, 1786.9017, 1791.7335, 1808.8868, 1824.8674, 1840.8225, 1844.8907, 1848.8322, 1850.8301, 1851.8488, 1867.9503,
  1880.9277, 1887.9734, 1908.8838, 1914.9995, 1919.0038, 1925.9418, 1928.0103, 1931.9463, 1953.9353, 1975.9609, 1992.9642, 1995.9020, 2011.8845, 2013.8983, 2024.8591, 2025.6234, 2036.5195, 2042.0640, 2047.0167, 2047.9691, 2051.9792, 2058.9963, 2060.0469, 2064.9900,
  2070.8835, 2074.8914, 2083.9907, 2086.8828, 2092.8821, 2095.9941, 2098.9976, 2100.9160, 2102.8872, 2106.9011, 2108.8835, 2109.9175,
 2114.9180, 2116.9160, 2118.8835, 2119.8833, 2125.0176, 2132.8694, 2136.9180, 2170.1467, 2211.1045, 2225.1191, 2273.0496, 2277.0137, 2307.9941, 2322.9980, 2341.0366, 2343.0271, 2352.0571, 2355.0459, 2359.0532, 2366.0813, 2368.0544, 2369.0710, 2376.0264, 2382.0349,
 2383.6099, 2383.9600, 2390.0403, 2396.0342, 2398.0576, 2400.0652, 2406.0737, 2411.0076, 2414.0813, 2416.0752, 2417.0732, 2420.0718, 2422.0408, 2423.0466, 2428.0898, 2430.0828, 2431.0845, 2433.0779, 2436.0508, 2438.0457, 2439.0261, 2442.0618, 2449.0347, 2452.0632,
 2460.0254, 2461.9956, 2463.9858, 2510.1277, 2528.1580, 2542.1509, 2545.1558, 2547.1531, 2552.1038, 2565.1543, 2585.1111, 2601.0889, 2705.2192, 2717.0693, 3129.3176, 3208.1736, 3223.2710, 3290.4131, 3291.4248, 3312.2756, 3451.3933, 3453.4365
 G3MWY8 Mass: 9886
                                                                  Score: 19
                                                                                                          Expect: 3.3e+002 Matches: 7
  Coiled-coil domain-containing protein 167 OS=Bos taurus GN=CCDC167 PE=4 SV=1
Observed Mr (expt) Mr (calc) ppm Start End Miss Ions Peptide
802.4548 801.4475 801.4596 -15.10 2 - 8 1 --- M.IDGLEKK.L
805.4229 804.4156 804.4051 13.0 1 - 7 0 --- - MIDGLEK.L
1376.6804 1375.6731 1375.6878 -10.65 23 - 34 1 --- R.LGGVELSSEARR.S
1387.6444 1386.6371 1386.6449 -5.59 41 - 52 1 --- K.SSLMNKASNYEK.E + Oxidation (M)
1628.8260 1627.8187 1627.7875 19.2 39 - 52 2 --- K.EKSSLMNKASNYEK.E
1644.8046 1643.7973 1643.7824 9.06 39 - 52 2 --- K.EKSSLMNKASNYEK.E + Oxidation (M)
1757.8322 1756.8249 1756.8665 -23.66 41 - 55 2 --- K.EKSSLMNKASNYEK.E + Oxidation (M)
No match to: 713.4334, 719.2388, 724.3009, 726.2899, 732.2586, 735.3865, 745.4124, 756.4687, 764.4056, 765.3908, 767.3679, 768.3909, 772.3555, 795. 816.6688, 827.3893, 8370.806.4631, 807.3893, 809.4480.811, 4104.812.3985, 816.4448.820.42444.822.3905, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805, 82.3805
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  902.4597, 910.4410, 912.4497, 913.5118, 916.4905, 918.5391, 925.4747, 928.5064, 930.5048, 933.4619, 935.4698, 939.4758, 947.4628, 949.4591, 951.4703, 954.4674, 957.4657, 963.4676, 965.4761, 967.4568, 969.4571, 972.4793, 972.4800, 975.4650, 977.4630, 978.4976,
  981.4565, 983.4664, 985.4842, 991.4688, 993.5331, 997.4298, 999.4453, 1001.4488, 1003.4687, 1007.5668, 1018.5212, 1023.4777, 1026.4922, 1027.4972, 1030.5151, 1031.3850, 1033.5419, 1035.5352, 1036.5372, 1039.5402, 1042.5383, 1045.5654, 1056.5408, 1060.5400, 1060.5442, 1065.5425, 1086.5115, 1106.5372, 1111.5582, 1113.5546, 1114.5396, 1115.5605, 1118.5529, 1122.5363, 1128.5775,
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1129.6014,\ 1130.5935,\ 1140.5485,\ 1144.5709,\ 1155.6113,\ 1156.5720,\ 1157.5952,\ 1158.6154,\ 1159.6273,\ 1165.5817,\ 1172.6301,\ 1173.6259,\ 1179.6063,\ 1180.6165,\ 1182.6090,\ 1183.6123,\ 1185.6317,\ 1187.6431,\ 1193.6096,\ 1195.6060,\ 1196.6102,\ 1206.6770,\ 1209.1387,\ 1209.5848,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182.6123,\ 1182
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    1319.6852, 1323.6517, 1325.6637, 1328.6809, 1329.6672, 1331.6763, 1332.6743, 1334.6592, 1335.6937, 1336.6715, 1337.6724, 1338.6471,
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   1473.8054, 1475.7748, 1477.7524, 1478.7439, 1485.7720, 1486.7664, 1493.7539, 1494.7423, 1505.8649, 1523.7841, 1524.7848, 1537.8021, 1549.7388, 1555.8816, 1558.8474, 1576.7987, 1579.7926, 1584.7897, 1588.8136, 1590.3611, 1604.8417, 1605.8098, 1606.8384, 1615.8826,
  1616.8605, 1622.8137, 1629.8358, 1630.8466, 1633.9790, 1635.7943, 1647.8785, 1649.8463, 1651.8245, 1659.8241, 1662.7909, 1668.7810, 1679.9736, 1681.8214, 1683.8121, 1684.8204, 1706.8616, 1707.7838, 1716.8571, 1725.8353, 1728.8242, 1734.8152, 1740.8768, 1742.9031, 1746.1659, 1750.8356, 1751.8787, 1753.8948, 1756.8905, 1763.8188, 1765.7690, 1767.8036, 1768.9027, 1769.4475, 1770.4261, 1774.9091,
   1783.8499, 1786.9000, 1786.9017, 1791.7335, 1808.8868, 1824.8674, 1840.8225, 1844.8907, 1848.8322, 1850.8301, 1851.8488, 1867.9503, 1880.9277, 1887.9734, 1908.8838, 1914.9995, 1919.0038, 1925.9418, 1928.0103, 1931.9463, 1953.9353, 1975.9609, 1992.9642, 1995.9020,
   2007.9894, 2011.8845, 2013.8983, 2024.8591, 2025.6234, 2036.5195, 2036.9486, 2042.0640, 2047.0167, 2047.9691, 2051.9792, 2052.9924, 2058.9963, 2060.0469, 2064.9900, 2068.8982, 2070.8835, 2074.8914, 2083.9907, 2084.8987, 2086.8828, 2092.8821, 2095.9941, 2098.9976,
  2100.9160, 2102.8872, 2106.9011, 2108.8835, 2109.9175, 2114.9180, 2116.9160, 2118.8835, 2119.8833, 2125.0176, 2132.8694, 2136.9180, 2170.1467, 2211.1045, 2225.1191, 2273.0496, 2277.0137, 2307.9941, 2322.9980, 2341.0366, 2343.0271, 2352.0571, 2355.0459, 2359.0532,
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   2547.1531, 2552.1038, 2565.1543, 2585.1111, 2601.0889, 2705.2192, 2717.0693, 3129.3176, 3208.1736, 3223.2710, 3290.4131, 3291.4248,
   3312.2756, 3451.3933, 3453.4365
                                                                 Score: 19
                      Mass: 30565
                                                                                                  Expect: 3.3e+002 Matches: 14
  Zinc finger protein SNAI2 OS=Bos taurus GN=SNAI2 PE=2 SV=1

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss Tons
        Peptide

        972.4793
        971.4720
        971.4495
        23.2
        245 - 252
        1
        ---
        K.SCSKTFSR.M

        972.4800
        971.4727
        971.4495
        23.9
        245 - 252
        1
        ---
        K.SCSKTFSR.M

972.4800 971.4727 971.4495 23.9 245 - 252 1 --- K.SCSKTFSR.M

993.5331 992.5258 992.5477 -22.07 1 - 8 1 --- -MPRSFLVK.K + Oxidation (M)

1060.5400 1059.5327 1059.5237 8.53 136 - 145 0 --- K.TYSTFSGLGK.H

1060.5442 1059.5369 1059.5237 12.5 136 - 145 0 --- K.TYSTFSGLGK.H

1115.5605 1114.5532 1114.5264 24.1 180 - 188 0 --- R.THILPCVCK.I

1209.5848 1208.5775 1208.6037 -21.64 117 - 127 0 --- K.LSDPHAIEREK.F

1325.6637 1324.6564 1324.6776 -15.95 136 - 147 1 --- K.TYSTFSGLGKHK.Q

1605.8098 1604.8025 1604.8383 -22.28 226 - 239 1 --- R.SNLRAHLQTHSDVK.K

1668.7810 1667.7737 1667.8058 -19.25 176 - 188 1 --- K.MHIRTHILPCVCK.I + Oxidation (M)

1681.8214 1680.8141 1680.8440 -17.75 245 - 258 2 --- K.SCSKTFSRMSLLHK.H

1851.8488 1850.8415 1850.8516 -5.43 148 - 162 2 --- K.SCSKTFSRMSLLHK.H

1851.8488 1850.8415 1850.8516 -5.43 148 - 162 2 --- K.QLHCDAQSRKSFSCK.Y

2098.9976 2097.9903 2098.0339 -20.79 163 - 179 2 --- K.YCDKEYVSLGALKMHIR.T + Oxidation (M)

2125.0176 2124.0103 2123.9769 15.8 128 - 145 1 --- K.PCCNLCNKTYSTFSCLGK.H

No match to: 713.4334, 719.2388, 724.3009, 726.2899, 732.2586, 735.3865, 745.4124, 756.4687, 764.4056, 765.3908, 767.3679, 768.3909, 772.3955, 795.4186, 802.4548, 803.4370, 805.4229, 806.4631, 807.3893, 809.4480, 811.4104, 812.3985, 816.4408, 82
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   897.0289, 897.4412, 902.4597, 910.4410, 912.4497, 913.5118, 916.4905, 918.5391, 925.4747, 928.5064, 930.5048, 933.4619, 935.4698, 939.4758, 947.4628, 949.4591, 951.4703, 954.4674, 957.4657, 963.4676, 965.4761, 967.4568, 969.4571, 975.4650, 977.4630, 978.4976,
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   1757.8322, 1763.8188, 1765.7690, 1767.8036, 1768.9027, 1769.4475, 1770.4261, 1774.9091, 1783.8499, 1786.9000, 1786.9017, 1791.7335, 1808.8868, 1824.8674, 1840.8225, 1844.8907, 1848.8322, 1850.8301, 1867.9503, 1880.9277, 1887.9734, 1908.8838, 1914.9995, 1919.0038,
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  2428.0898, 2430.0828, 2431.0845, 2433.0779, 2436.0508, 2438.0457, 2439.0261, 2442.0618, 2449.0347, 2452.0632, 2460.0254, 2461.9956, 2463.9858, 2510.1277, 2528.1580, 2542.1509, 2545.1558, 2547.1531, 2552.1038, 2565.1543, 2585.1111, 2601.0889, 2705.2192, 2717.0693,
   3129.3176. 3208.1736. 3223.2710. 3290.4131. 3291.4248. 3312.2756. 3451.3933. 3453.4365
  F1MMB7 Mass: 28878 Score: 18
                                                                                                    Expect: 3.4e+002 Matches: 11
Uncharact=rized protein OS=Bos taurus GN=TP53TG5 PE=4 SV=1

Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide

902.4597 901.4524 901.4327 21.8 132 - 139 0 --- R.AQEAMPQK.E

925.4747 924.4674 924.4677 -11.19 153 - 161 0 --- R.GHGITTSPR.A

1113.5546 1112.5473 1112.5397 6.88 179 - 187 1 --- K.THQDRTPMK.D

1165.5817 1164.5744 1164.5645 8.56 224 - 231 2 --- R.WYKRCCTR.F

1328.6809 1327.6736 1327.6918 -13.69 184 - 194 2 --- R.TPMKDVKQPER.A

1337.6724 1336.6651 1336.6655 -15.35 208 - 218 1 --- R.VHLPGPRVMCR.S + Oxidation (M)

1880.9277 1879.9204 1879.9462 -13.69 17 - 32 2 --- R.WYKRCTR.F

2013.8983 2012.8910 2012.8997 -4.29 99 - 115 1 --- R.AQAQEPPTGDPRVVFWK.T

20376.0264 2375.0191 2375.0531 -14.29 228 - 246 1 --- R.CCTRFCSASLETPMVHLYK.V + Oxidation (M)

No match to: 713.4334 719.2388, 724.3009, 726.2899, 732.2586, 735.3865, 745.4124, 756.4687, 764.4056, 765
  Uncharacterized protein OS=Bos taurus GN=TP53TG5 PE=4 SV=1
  No match to: 713.4334, 719.2388, 724.3009, 726.2899, 732.2586, 735.3865, 745.4124, 756.4687, 764.4056, 765.3908, 767.3679, 768.3909, 772.3955, 795.4186, 802.4548, 803.4370, 805.4229, 806.4631, 807.3893, 809.4480, 811.4104, 812.3985, 816.4408, 820.4244,
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   897.0289, 897.4412, 910.4410, 912.4497, 913.5118, 916.4905, 918.5391, 928.5064, 930.5048, 933.4619, 935.4698, 939.4758, 947.4628, 949.4591, 951.4703, 954.4674, 957.4657, 963.4676, 965.4761, 967.4568, 969.4571, 972.4793, 972.4800, 975.4650, 977.4630, 978.4976, 981.4565, 983.4664, 985.4842, 991.4688, 993.5331, 997.4298, 999.4453, 1001.4488, 1003.4687, 1007.5668, 1018.5200, 1018.5212,
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   2601.0889, 2705.2192, 2717.0693, 3129.3176, 3208.1736, 3223.2710, 3290.4131, 3291.4248, 3312.2756, 3451.3933, 3453.4365
  F1N6K9 Mass: 95221
                                                    Score: 18
                                                                                     Expect: 3.5e+002 Matches: 27
   Uncharacterized protein OS=Bos taurus PE=4 SV=2

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End
        Miss
        Ions
        Peptide

        807.3893
        806.3820
        806.3956
        -16.88
        583
        -
        589
        0
        ---
        K.NTMLN

                                                                                                                                      K NTMLNSK L
807.3893 806.3820 806.3956 -16.88 583 - 589 0 --- K.NTMLNSK.L
823.3846 822.3774 822.3905 -16.01 583 - 589 0 --- K.NTMLNSK.L + Oxidation (M)
834.4043 833.3970 833.4130 -19.22 562 - 568 0 --- R.NEETLTK.T
897.4412 896.4339 896.4239 11.1 463 - 469 1 --- K.EDQYSKK.V
902.4597 901.4524 901.4366 17.5 440 - 446 1 --- K.QEGEQRR.N
983.4664 982.4591 982.4429 16.4 447 - 454 0 --- R.NADMLYEK.I
999.4453 998.4380 998.4379 0.17 447 - 454 0 --- R.NADMLYEK.I + Oxidation (M)
1030.5151 1029.5078 1029.5317 -23.23 1 - 9 1 --- -.MKIFGFGSK.K + Oxidation (M)
1155.6113 1154.6040 1154.5859 15.7 541 - 549 0 --- K.YFEDIEIVK.G
1158.6154 1157.6081 1157.6267 -16.04 1 - 10 2 --- -.MKIFGFGSK.G + Oxidation (M)
1165.5817 1164.5744 1164.5710 2.98 622 - 630 1 --- K.RDMELAFQR.A
1173.6259 1172.6186 1172.6203 -1.43 28 - 36 1 --- R.RIHFQPGYR.I
1185.6317 184.6244 1184.6513 -22.69 775 - 784 1 --- K.QELVLEENK.E
1268.6498 1267.6425 1267.6230 15.4 447 - 456 1 --- R.NADMLYEKIR.E + Oxidation (M)
1271.6696 1270.6623 1270.6339 22.3 197 - 207 1 --- K.EANIHAVDKMK.R + Oxidation (M)
1332.6743 1331.6670 1331.6364 23.0 66 - 76 2 --- K.NGINDRDKMNR.T
1411.7208 1410.7135 1410.7401 -18.86 197 - 208 2 --- K.NGINDRDKMNR.T
1421.7177 1420.7104 1420.7245 -9.90 633 - 643 2 --- R.DERLHLHDKMK.S
1434.7288 1433.7215 1433.7370 -10.82 683 - 693 1 --- R.DERLHLHDKMK.S
1434.7288 1433.7215 1433.7370 -10.82 683 - 693 1 --- R.DERLHLHDKMK.S
1588.8136 1587.8063 1587.8018 2.82 24 - 36 2 --- R.DERLHLHDKMK.S
1786.9000 1785.8927 1785.8969 -2.35 10 - 27 2 6 K.KGESPLGSSISPGRDSGR.R
1786.9001 1785.8944 1785.8969 -2.35 10 - 27 2 6 K.KGESPLGSSISPGRDSGR.R
1786.9001 1785.8944 1785.8969 -2.35 10 - 27 2 6 K.KGESPLGSSISPGRDSGR.R
1786.9001 1785.8944 1785.8969 -1.40 10 - 27 2 --- K.KYEMRQUELTIR.A
1898.48674 1823.8601 1823.8333 14.7 607 - 622 1 --- R.LAAASHDHDQCQTSKR.D
1919.0038 1917.9965 1917.9982 -0.89 751 - 766 1 --- K.EKTVISIQDQFQPMVR.E

No match to: 713.4334, 719.2388, 724.3009, 726.2899, 732.2586, 735.3865, 745.4124, 756.4687, 768.3999, 772.2586, 735.5386, 745.4124, 756.4687, 768.83999, 772.2586, 735.43
                                                                                          583 - 589 0 ---
    823 3846
                          822 3774
                                                  822.3905 -16.01
                                                                                                                                        K.NTMLNSK.L + Oxidation (M)
   No match to: 713.4334, 719.2388, 724.3009, 726.2899, 732.2586, 735.3865, 745.4124, 756.4687, 764.4056, 765.3908, 767.3679,
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   867.3724, 870.5402, 871.4945, 878.4625, 880.4403, 886.3815, 888.4233, 890.4479, 893.9562, 894.4579, 897.0289, 910.4410, 912.4497, 913.5118, 916.4905, 918.5391, 925.4747, 928.5064, 930.5048, 933.4619, 935.4698, 939.4758, 947.4628, 949.4591, 951.4703, 954.4674, 957.4657, 963.4676, 965.4761, 967.4568, 969.4571, 972.4793, 972.4800, 975.4650, 977.4630, 978.4976, 981.4565, 985.4842, 991.4688,
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   2119.8833, 2125.0176, 2132.8694, 2136.9180, 2170.1467, 2211.1045, 2225.1191, 2273.0496, 2277.0137, 2307.9941, 2322.9980, 2341.0366,
  2343.0271, 2352.0571, 2355.0459, 2359.0532, 2366.0813, 2368.0544, 2369.0710, 2376.0264, 2382.0349, 2383.6099, 2383.9600, 2390.0403, 2396.0342, 2398.0576, 2400.0652, 2406.0737, 2411.0076, 2414.0813, 2416.0752, 2417.0732, 2420.0718, 2422.0408, 2423.0466, 2428.0898,
  2430.0828, 2431.0845, 2433.0779, 2436.0508, 2438.0457, 2439.0261, 2442.0618, 2449.0347, 2452.0632, 2460.0254, 2461.9956, 2463.9858, 2510.1277, 2528.1580, 2542.1509, 2545.1558, 2547.1531, 2552.1038, 2565.1543, 2585.1111, 2601.0889, 2705.2192, 2717.0693, 3129.3176,
   3208.1736, 3223.2710, 3290.4131, 3291.4248, 3312.2756, 3451.3933, 3453.4365
  032KL9 Mass: 28308
                                                    Score: 18
                                                                                     Expect: 3.8e+002 Matches: 12
   B-cell receptor-associated protein 29 OS=Bos taurus GN=BCAP29 PE=2 SV=1

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss
        Ions
        Peptide

        806.4631
        805.4558
        805.4559
        -0.08
        97
        - 102
        1
        ---
        K.LFRSQI

                                                                                                                                        K.LFRSOR.N
                                                                                         180 - 186
                                                                                                                   1 ---
    890.4479
                           889.4407
                                                  889.4392
                                                                          1.60
                                                                                                                                       K.LEEDKEK.L
                                                  909.4556 -23.97 215 - 221 1 ---
977.4964 -6.24 210 - 217 1 ---
    910 4410
                          909 4338
                                                                                                                                      R LSKEYDR L
    978 4976
                          977 4903
                                                                                                                                      K.MOSERLSK.E
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1018.5200 1017.5127 1017.5342 -21.10 179 - 186 2 --- K.KLEEDKEK.L
1018.5212 1017.5139 1017.5342 -19.92 179 - 186 2 --- K.KLEEDKEK.L
1065.5425 1064.5352 1064.5138 20.1 73 - 81 0 --- K.YSSTHTIEK.S
1193.6096 1192.6023 1192.6088 -5.41 72 - 81 1 --- R.KYSSTHTIEK.S
1195.6060 1194.5987 1194.5703 23.8 151 - 159 1 --- K.FMEENERLK.R
1323.6517 1322.6444 1322.6652 -15.72 150 - 159 2 --- K.KFMEENERLK.R
2095.9941 2094.9868 2095.0269 -19.12 82 - 99 1 --- K.SSASRPAAYEHTQMKLFR.S + Oxidation (M)
2369.0710 2368.0637 2368.1185 -23.11 194 -214 2 --- K.ASDALSKAQNDVMIMKMQSER.L + Oxidation (M)
 No match to: 713.4334, 719.2388, 724.3009, 726.2899, 732.2586, 735.3865, 745.4124, 756.4687, 764.4056, 765.3908, 767.3679, 768.3909, 772.3955, 795.4186, 802.4548, 803.4370, 805.4229, 807.3893, 809.4480, 811.4104, 812.3985, 816.4408, 820.4244, 822.3905, 823.3846, 824.3756, 828.3904, 834.4043, 836.4589, 837.3853, 839.3696, 840.3839, 842.5085, 845.4100, 845.4123, 851.3975, 852.4056,
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 951.4703, 954.4674, 957.4657, 963.4676, 965.4761, 967.4568, 969.4571, 972.4793, 972.4800, 975.4650, 977.4630, 981.4565, 983.4664, 985.4842, 991.4688, 993.5331, 997.4298, 999.4453, 1001.4488, 1003.4687, 1007.5668, 1023.4777, 1026.4922, 1027.4972, 1030.5151, 1031.3850, 1033.5419, 1035.5352, 1036.5372, 1039.5402, 1042.5383, 1045.5654, 1056.5488, 1060.5400, 1060.5442, 1086.5115, 1106.5372,
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 1427.7872, 1431.7961, 1432.7133, 1434.7288, 1446.7256, 1450.7079, 1473.8054, 1475.7748, 1477.7524, 1478.7439, 1485.7720, 1486.7664,
 1493.7539, 1494.7423, 1505.8649, 1523.7841, 1524.7848, 1537.8021, 1549.7388, 1555.8816, 1558.8474, 1576.7987, 1579.7926, 1584.7897,
  1588.8136, 1590.3611, 1604.8417, 1605.8098, 1606.8384, 1615.8826, 1616.8605, 1622.8137, 1628.8260, 1629.8358, 1630.8466,
 1635.7943, 1644.8046, 1647.8785, 1649.8463, 1651.8245, 1659.8241, 1662.7909, 1668.7810, 1679.9736, 1681.8214, 1683.8121, 1684.8204,
  1706.8616, 1707.7838, 1716.8571, 1725.8353, 1728.8242, 1734.8152, 1740.8768, 1742.9031, 1746.1659, 1750.8356, 1751.8787,
 1756.8905, 1757.8322, 1763.8188, 1765.7690, 1767.8036, 1768.9027, 1769.4475, 1770.4261, 1774.9091, 1783.8499, 1786.9000, 1786.9017, 1791.7335, 1808.8868, 1824.8674, 1840.8225, 1844.8907, 1848.8322, 1850.8301, 1851.8488, 1867.9503, 1880.9277, 1887.9734, 1908.8838,
 1914.9995, 1919.0038, 1925.9418, 1928.0103, 1931.9463, 1953.9353, 1975.9609, 1992.9642, 1995.9020, 2007.9894, 2011.8845, 2013.8983, 2024.8591, 2025.6234, 2036.5195, 2036.9486, 2042.0640, 2047.0167, 2047.9691, 2051.9792, 2052.9924, 2058.9963, 2060.0469, 2064.9900,
 2068.8982, 2070.8835, 2074.8914, 2083.9907, 2084.8987, 2086.8828, 2092.8821, 2098.9976, 2100.9160, 2102.8872, 2106.9011, 2108.8835,
 2109.9175, 2114.9180, 2116.9160, 2118.8835, 2119.8833, 2125.0176, 2132.8694, 2136.9180, 2170.1467, 2211.1045, 2225.1191, 2273.0496,
  2277.0137, 2307.9941, 2322.9980, 2341.0366, 2343.0271, 2352.0571, 2355.0459, 2359.0532, 2366.0813, 2368.0544, 2376.0264, 2382.0349,
 2383.6099, 2383.9600, 2390.0403, 2396.0342, 2398.0576, 2400.0652, 2406.0737, 2411.0076, 2414.0813, 2416.0752, 2417.0732, 2420.0718, 2422.0408, 2423.0466, 2428.0898, 2430.0828, 2431.0845, 2433.0779, 2436.0508, 2438.0457, 2439.0261, 2442.0618, 2449.0347, 2452.0632,
 2460.0254, 2461.9956, 2463.9858, 2510.1277, 2528.1580, 2542.1509, 2545.1558, 2547.1531, 2552.1038, 2565.1543, 2585.1111, 2601.0889, 2705.2192, 2717.0693, 3129.3176, 3208.1736, 3223.2710, 3290.4131, 3291.4248, 3312.2756, 3451.3933, 3453.4365
                   Mass: 6896
                                                    Score: 18
                                                                                Expect: 3.8e+002 Matches: 6
 Uncharacterized protein OS=Bos taurus GN=SERF2 PE=4 SV=1
  Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide
| Note | 
 No match to: 713.4334, 719.2388, 724.3009, 726.2899, 732.2586, 735.3865, 745.4124, 756.4687, 764.4056, 765.3908, 767.3679, 768.3909, 772.3955, 795.4186, 802.4548, 803.4370, 805.4229, 806.4631, 807.3893, 809.4480, 811.4104, 812.3985, 816.4408, 820.4244, 822.3905, 823.3846, 824.3756, 828.3904, 834.4043, 836.4589, 837.3853, 839.3696, 840.3839, 842.5085, 845.4100, 845.4123, 851.3975,
 852.4056, 856.4893, 866.3914, 867.3724, 870.5402, 871.4945, 878.4625, 880.4403, 886.3815, 888.4233, 890.4479, 893.9562, 894.4579, 897.0289, 897.4412, 902.4597, 910.4410, 912.4497, 913.5118, 916.4905, 918.5391, 925.4747, 928.5064, 930.5048, 933.4619, 935.4698,
 933.4758, 947.4628, 949.4591, 951.4703, 954.4674, 957.4657, 963.4676, 965.4761, 967.4568, 969.4571, 972.4793, 972.4800, 975.4650, 977.4630, 978.4976, 981.4565, 983.4664, 985.4842, 991.4688, 993.5331, 997.4298, 999.4453, 1001.4488, 1003.4687, 1007.5668, 1018.5200, 1018.5212, 1023.4777, 1026.4922, 1027.4972, 1030.5151, 1031.3850, 1033.5419, 1035.5352, 1036.5372, 1039.5402, 1042.5383,
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  1173.6259, 1179.6063, 1182.6090, 1183.6123, 1185.6317, 1193.6096, 1195.6060, 1196.6102, 1206.6770, 1209.1387, 1209.5848,
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  1558.8474, 1576.7987, 1579.7926, 1584.7897, 1588.8136, 1590.3611, 1604.8417, 1605.8098, 1606.8384, 1615.8826, 1616.8605, 1622.8137
 1628.8260, 1629.8358, 1630.8466, 1633.9790, 1635.7943, 1644.8046, 1647.8785, 1649.8463, 1651.8245, 1659.8241, 1662.7909, 1668.7810,
  1679.9736, 1681.8214, 1683.8121, 1684.8204, 1706.8616, 1707.7838, 1716.8571, 1725.8353, 1728.8242, 1734.8152, 1740.8768, 1742.9031,
 1746.1659, 1750.8356, 1751.8787, 1753.8948, 1756.8905, 1757.8322, 1763.8188, 1765.7690, 1767.8036, 1768.9027, 1769.4475, 1770.4261, 1774.9091, 1783.8499, 1786.9000, 1786.9017, 1791.7335, 1808.8868, 1824.8674, 1840.8225, 1844.8907, 1848.8322, 1850.8301, 1851.8488,
 1867.9503, 1880.9277, 1887.9734, 1908.8838, 1914.9995, 1919.0038, 1925.9418, 1928.0103, 1931.9463, 1953.9353, 1975.9609, 1992.9642,
 1995.9020, 2007.9894, 2011.8845, 2013.8983, 2024.8591, 2025.6234, 2036.5195, 2036.9486, 2042.0640, 2047.0167, 2047.9691, 2051.9792, 2052.9924, 2058.9963, 2060.0469, 2064.9900, 2068.8982, 2070.8835, 2074.8914, 2083.9907, 2084.8987, 2086.8828, 2092.8821, 2095.9941, 2098.9976, 2100.9160, 2102.8872, 2106.9011, 2108.8835, 2109.9175, 2114.9180, 2116.9160, 2118.8835, 2119.8833, 2125.0176, 2132.8694,
  2136.9180, 2170.1467, 2211.1045, 2225.1191, 2273.0496, 2277.0137, 2307.9941, 2322.9980, 2341.0366, 2343.0271, 2352.0571, 2355.0459,
 2359.0532, 2366.0813, 2368.0544, 2369.0710, 2376.0264, 2382.0349, 2383.6099, 2383.9600, 2390.0403, 2396.0342, 2398.0576, 2400.0652, 2406.0737, 2411.0076, 2414.0813, 2416.0752, 2417.0732, 2420.0718, 2422.0408, 2423.0466, 2428.0898, 2430.0828, 2431.0845, 2433.0779,
 2436.0508, 2438.0457, 2439.0261, 2442.0618, 2449.0347, 2452.0632, 2460.0254, 2461.9956, 2463.9858, 2510.1277, 2528.1580, 2542.1509, 2545.1558, 2547.1531, 2552.1038, 2565.1543, 2585.1111, 2601.0889, 2705.2192, 2717.0693, 3129.3176, 3208.1736, 3223.2710, 3290.4131,
 3291.4248, 3312.2756, 3451.3933, 3453.4365
                                                                                  Expect: 3.8e+002 Matches: 12
 F1MB56
                                                 Score: 18
 Uncharacterized protein OS=Bos taurus GN=TEX35 PE=4 SV=1
  Observed Mr(expt) Mr(calc) ppm Start End Miss Ions
                                                                                                                               K.RVEPKK.T
   756.4687
                        755.4614
                                               755.4653
                                                                     -5.21 5 - 10 2 ---
1 - 9 2 ---
1045.5654 1044.5581 1044.5750 -16.12
                                                                                                                                  - .MSAKRVEPK.K
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2052.9924 2051.9851 2051.9867 -0.77 97 -113 2 --- K.DMDEKMDVLINIQKNSK.F + 2 Oxidation (M)
2376.0264 2375.0191 2374.9981 8.87 161 - 179 1 --- R.QQPKDPMDPLHQCDSCFEK.C + Oxidation (M)

No match to: 713.4334, 719.2388, 724.3009, 726.2899, 732.2586, 735.3865, 745.4124, 764.4056, 765.3908, 767.3679, 768.3909, 772.3955, 795.4186, 802.4548, 803.4370, 805.4229, 806.4631, 807.3893, 809.4480, 811.4104, 812.3985, 816.4408, 820.4244, 822.3905, 823.3846, 824.3756, 828.39756, 828.39756, 824.3756, 828.39756, 824.3756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756, 828.39756
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   1018.5212, 1023.4777, 1026.4922, 1027.4972, 1030.5151, 1031.3850, 1033.5419, 1035.5352, 1036.5372, 1039.5402, 1042.5383, 1056.5488,
  1060.5400, 1060.5442, 1065.5425, 1086.5115, 1106.5372, 1111.5582, 1113.5546, 1114.5396, 1115.5605, 1118.5529, 1122.5363, 1128.5775, 1129.6014, 1130.5935, 1140.5485, 1144.5709, 1155.6113, 1156.5720, 1157.5952, 1158.6154, 1165.5817, 1172.6301, 1173.6259, 1179.6063,
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  1271.6696, 1273.6653, 1275.6644, 1291.6425, 1295.7233, 1300.6062, 1301.6205, 1307.6858, 1315.6570, 1317.6521, 1319.6852, 1323.6517, 1325.6637, 1328.6809, 1329.6672, 1331.6763, 1332.6743, 1334.6592, 1335.6937, 1336.6715, 1337.6724, 1338.6471, 1342.6680, 1345.6760,
   1346.6880, 1349.6991, 1354.6907, 1355.7155, 1357.7034, 1360.6882, 1361.6670, 1365.6913, 1368.6920, 1374.6412, 1375.6798, 1376.6804,
  1377.6794, 1382.6647, 1387.6444, 1410.7505, 1411.7208, 1427.7872, 1431.7961, 1432.7133, 1434.7288, 1446.7256, 1450.7079, 1473.8054, 1475.7748, 1477.7524, 1478.7439, 1485.7720, 1486.7664, 1493.7539, 1494.7423, 1505.8649, 1523.7841, 1524.7848, 1537.8021, 1549.7388,
  1555.8816, 1558.8474, 1576.7987, 1579.7926, 1584.7897, 1588.8136, 1590.3611, 1604.8417, 1605.8098, 1615.8826, 1628.8260, 1629.8358, 1630.8466, 1633.9790, 1635.7943, 1644.8046, 1647.8785, 1649.8463, 1651.8245, 1659.8241, 1662.7909, 1668.7810, 1679.9736, 1681.8214,
  1683.8121, 1706.8616, 1707.7838, 1716.8571, 1725.8353, 1728.8242, 1734.8152, 1740.8768, 1742.9031, 1746.1659, 1750.8356, 1751.8787, 1753.8948, 1756.8905, 1757.8322, 1763.8188, 1765.7690, 1767.8036, 1768.9027, 1769.4475, 1770.4261, 1774.9091, 1783.8499, 1786.9000, 1786.9017, 1791.7335, 1808.8868, 1824.8674, 1840.8225, 1844.8907, 1848.8322, 1850.8301, 1851.8488, 1867.9503, 1880.9277, 1887.9734,
  1908.8838, 1914.9995, 1919.0038, 1925.9418, 1928.0103, 1931.9463, 1953.9353, 1975.9609, 1992.9642, 1995.9020, 2007.9894, 2011.8845, 2013.8983, 2024.8591, 2025.6234, 2036.5195, 2042.0640, 2047.0167, 2047.9691, 2051.9792, 2058.9963, 2060.0469, 2064.9900, 2068.8982,
  2070.8835, 2074.8914, 2083.9907, 2084.8987, 2086.8828, 2092.8821, 2095.9941, 2098.9976, 2100.9160, 2102.8872, 2106.9011, 2108.8835, 2109.9175, 2114.9180, 2116.9160, 2118.8835, 2119.8833, 2125.0176, 2132.8694, 2136.9180, 2170.1467, 2211.1045, 2225.1191, 2273.0496,
 2277.0137, 2307.9941, 2322.9980, 2341.0366, 2343.0271, 2352.0571, 2355.0459, 2359.0532, 2366.0813, 2368.0544, 2369.0710, 2382.0349, 2383.6099, 2383.9600, 2390.0403, 2396.0342, 2398.0576, 2400.0652, 2406.0737, 2411.0076, 2414.0813, 2416.0752, 2417.0732, 2420.0718, 2422.0408, 2422.0408, 2422.0408, 2422.0408, 2423.0408, 2423.0408, 2423.0466, 2428.0898, 2430.0828, 2431.0845, 2433.0779, 2436.0508, 2438.0457, 2439.0261, 2442.0618, 2449.0347, 2452.0632, 2460.0254, 2461.9956, 2463.9858, 2510.1277, 2528.1580, 2542.1509, 2545.1558, 2547.1531, 2552.1038, 2565.1543, 2585.1111, 2601.0889,
  2705.2192, 2717.0693, 3129.3176, 3208.1736, 3223.2710, 3290.4131, 3291.4248, 3312.2756, 3451.3933, 3453.4365
 G3MYV8 Mass: 6868
                                                                     Score: 18
                                                                                                      Expect: 3.8e+002 Matches: 6
  Uncharacterized protein OS=Bos taurus PE=4 SV=1
No match to: 713.4334, 719.2388, 724.3009, 726.2899, 732.2586, 735.3865, 745.4124, 756.4687, 764.4056, 767.3679, 768.3909, 772.3955, 795.4186, 802.4548, 803.4370, 805.4229, 806.4631, 807.3893, 809.4480, 811.4104, 812.3985, 816.4408, 820.4244, 822.3905, 823.3846, 824.3756, 828.3904, 834.4043, 836.4589, 837.3853, 839.3696, 840.3839, 842.5085, 845.4100, 845.4123, 851.3975, 852.4056,
  856.4893, 866.3914, 867.3724, 870.5402, 871.4945, 878.4625, 880.4403, 886.3815, 888.4233, 890.4479, 893.9562, 894.4579, 897.0289, 897.4412, 902.4597, 910.4410, 912.4497, 913.5118, 916.4905, 918.5391, 925.4747, 928.5064, 930.5048, 933.4619, 935.4698, 939.4758,
  947.4628, 949.4591, 951.4703, 954.4674, 957.4657, 963.4676, 965.4761, 967.4568, 969.4571, 972.4793, 972.4800, 975.4650, 977.978.4976, 981.4565, 983.4664, 985.4842, 991.4688, 993.5331, 997.4298, 999.4453, 1001.4488, 1003.4687, 1007.5668, 1018.5200,
  1018.5212, 1023.4777, 1026.4922, 1027.4972, 1030.51515, 1031.3850, 1033.5419, 1035.5352, 1036.5372, 1039.5402, 1045.5583, 1045.5654, 1056.5488, 1060.5400, 1060.5442, 1065.5425, 1086.5115, 1106.5372, 1111.5582, 1113.5546, 1114.5396, 1115.5605, 1118.5529, 1122.5363, 1128.5775, 1129.6014, 1130.5935, 1140.5485, 1144.5709, 1155.6113, 1156.5720, 1157.5952, 1158.6154, 1165.5817, 1172.6301, 1173.6259,
  1179.6063, 1180.6165, 1182.6090, 1183.6123, 1185.6317, 1193.6096, 1195.6060, 1196.6102, 1206.6770, 1209.1387, 1209.5848, 1210.1014, 1215.6627, 1216.6494, 1222.5994, 1226.5948, 1229.6246, 1231.6174, 1235.5846, 1240.6298, 1244.6324, 1248.6119, 1268.6498, 1271.6696,
   1273.6653, 1275.6644, 1291.6425, 1295.7233, 1300.6062, 1301.6205, 1307.6858, 1315.6570, 1317.6521, 1319.6852, 1323.6517, 1325.6637,
  1328.6809, 1329.6672, 1331.6763, 1332.6743, 1334.6592, 1335.6937, 1336.6715, 1337.6724, 1342.6680, 1345.6760, 1346.6880, 1349.6991, 1354.6907, 1355.7155, 1357.7034, 1360.6882, 1361.6670, 1365.6913, 1368.6920, 1374.6412, 1375.6798, 1376.6804, 1377.6794, 1382.6647,
  1387.6444, 1410.7505, 1411.7208, 1421.7177, 1427.7872, 1431.7961, 1432.7133, 1434.7288, 1446.7256, 1450.7079, 1473.8054, 1475.7748, 1477.7524, 1478.7439, 1485.7720, 1486.7664, 1493.7539, 1494.7423, 1505.8649, 1523.7841, 1524.7848, 1537.8021, 1549.7388, 1555.8816,
  1558.8474, 1576.7987, 1579.7926, 1584.7897, 1588.8136, 1590.3611, 1604.8417, 1605.8098, 1606.8384, 1615.8826, 1616.8605, 1622.8137, 1628.8260, 1629.8358, 1630.8466, 1633.9790, 1635.7943, 1644.8046, 1647.8785, 1649.8463, 1651.8245, 1659.8241, 1662.7909, 1668.7810,
   1679.9736, 1681.8214, 1683.8121, 1684.8204, 1706.8616, 1707.7838, 1716.8571, 1725.8353, 1728.8242, 1734.8152, 1740.8768, 1742.9031,
  1746.1659, 1750.8356, 1751.8787, 1753.8948, 1756.8905, 1757.8322, 1763.8188, 1765.7690, 1767.8036, 1768.9027, 1769.4475, 1770.4261, 1774.9091, 1783.8499, 1786.9000, 1786.9017, 1791.7335, 1808.8868, 1824.8674, 1840.8225, 1844.8907, 1848.8322, 1850.8301, 1851.8488,
  1867.9503, 1880.9277, 1887.9734, 1908.8883, 1914.9995, 1919.0038, 1925.9418, 1928.0103, 1931.9463, 1953.9353, 1975.9609, 1992.9642, 1995.9020, 2007.9894, 2011.8845, 2013.8983, 2024.8591, 2025.6234, 2036.5195, 2036.9486, 2042.0640, 2047.0167, 2047.9691, 2051.9792, 2052.9924, 2058.9963, 2060.0469, 2064.9900, 2068.8892, 2070.8835, 2074.8914, 2083.9907, 2084.8987, 2086.8828, 2092.8821, 2095.9941, 2088.9976, 2100.9160, 2102.8872, 2106.9011, 2108.8835, 2109.9175, 2114.9180, 2116.9160, 2118.8835, 2119.8833, 2125.0176, 2132.8694,
  2136.9180, 2170.1467, 2211.1045, 2225.1191, 2273.0496, 2277.0137, 2307.9941, 2322.9980, 2341.0366, 2343.0271, 2352.0571, 2355.0459,
  2359.0532, 2366.0813, 2368.0544, 2369.0710, 2376.0264, 2382.0349, 2383.6099, 2383.9600, 2390.0403, 2396.0342, 2398.0576, 2400.0652, 2406.0737, 2411.0076, 2414.0813, 2416.0752, 2417.0732, 2420.0718, 2422.0408, 2423.0466, 2428.0898, 2430.0828, 2431.0845, 2433.0779,
  2436.0508, 2438.0457, 2439.0261, 2442.0618, 2449.0347, 2452.0632, 2460.0254, 2461.9956, 2463.9858, 2510.1277, 2528.1580, 2542.1509, 2545.1558, 2547.1531, 2552.1038, 2565.1543, 2585.1111, 2601.0889, 2705.2192, 2717.0693, 3129.3176, 3208.1736, 3223.2710, 3290.4131,
  3291.4248, 3312.2756, 3451.3933, 3453.4365
                                                                                                         Expect: 3.8e+002 Matches: 10
                        Mass: 25138
                                                                 Score: 18
Uncharacterized protein OS=Bos tarus GN=TMCO5A PE=4 SV=1

| Observed | Mr (expt) | Mr (calc) | ppm | Start | End Miss Ions | 805.458 | 805.458 | 805.458 | 805.4680 | 9.70 | 197 - 202 | 2 ---- | R.EVMKRK.R + Oxidation (M) |
| 997.4298 | 996.4225 | 996.4182 | 4.28 | 75 - 82 | 0 ---- | K.ENTIMER.E + Oxidation (M) |
| 1295.7233 | 1294.7160 | 1294.6993 | 12.9 | 46 - 55 | 2 ---- | K.IHKKEDEIQR.L |
| 1334.6592 | 1333.6519 | 1333.6296 | 16.8 | 20 - 30 | 0 ---- | K.IHKKEDEIQR.L |
| 1446.7256 | 1445.7183 | 1445.7296 | -7.81 | 19 - 30 | 1 ---- | K.KNINSLMMDLER.D + Oxidation (M) |
| 1446.7256 | 1445.7183 | 1445.7296 | -7.81 | 118 - 130 | 2 ---- | K.SQRATKCEQDNLK.G |
| 1558.8474 | 1557.8401 | 1557.8297 | 6.70 | 1 - 13 | 2 ---- | M.GGPRSEKVEILR.L + Oxidation (M) |
| 1488.8322 | 1847.8249 | 1847.8618 | -19.94 | 20 - 34 | 1 ---- | K.KNINSLMMDLER.DMQR.I |
| 1992.9642 | 1991.9569 | 1991.9516 | 2.65 | 19 - 34 | 2 ---- | K.KNINSLMMDLER.DMQR.I |
| 1992.9642 | 1991.9569 | 1991.9516 | 2.65 | 19 - 34 | 2 ---- | K.KNINSLMMDLER.DMQR.I |
| 1992.9642 | 1993.955, 795.4186, 802.4384, 803.4370, 805.4229, 807.3893, 809.4480, 811.4104, 812.3395, 816.4408, 820.4244, 822.3905, 823.33846, 824.3756, 828.3904, 834.4043, 836.4589, 837.3853, 839.3696, 840.3839, 842.5085, 845.4100, 845.4123, 851.3975, 852.4056, 856.4893, 866.3914, 867.3724, 870.5402, 871.4945, 878.4625, 880.4403, 886.3815, 888.2423, 890.4479, 893.9562, 894.4579, 897.0289, 886.4893, 866.3914, 867.3724, 870.5402, 871.4945, 878.4625, 880.4403, 886.3815, 888.2433, 890.4479, 893.9562, 894.4579, 897.0289, 886.4893, 866.3914, 867.3724, 870.5402, 871.4945, 878.4625, 880.4403, 886.3815, 888.2433, 890.4479, 893.9562, 894.4579, 897.0289, 886.4893, 886.3815, 888.4233, 890.4479, 893.9562, 894.4579, 897.0289, 886.4893, 886.3815, 888.4233, 890.4479, 893.9562, 894.4579, 897.0289, 886.4893, 886.3815, 888.3433, 890.4479, 893.9562, 894.4579, 897.0289, 886.4893, 886.3815, 888.3431, 890.4479, 893.9562, 894.4579, 897.0289, 886.4893, 886.3815, 888.3433, 890.4479, 893.9562, 894.4579, 897.0289, 886.4893, 886.
  Uncharacterized protein OS=Bos taurus GN=TMCO5A PE=4 SV=1
  856.4893, 866.3914, 867.3724, 870.5402, 871.4945, 878.4625, 880.4403, 886.3815, 888.4233, 890.4479, 893.9562, 894.4579, 897.0289, 897.4412, 902.4597, 910.4410, 912.4497, 913.5118, 916.4905, 918.5391, 925.4747, 928.5064, 930.5048, 933.4619, 935.4698, 939.4758,
  947.4628, 949.4591, 951.4703, 954.4674, 957.4657, 963.4676, 965.4761, 967.4568, 969.4571, 972.4793, 972.4800, 975.4650, 977.4630,
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978.4976, 981.4565, 983.4664, 985.4842, 991.4688, 993.5331, 999.4453, 1001.4488, 1003.4687, 1007.5668, 1018.5200, 1018.5212, 1023.4777, 1026.4922, 1027.4972, 1030.5151, 1031.3850, 1033.5419, 1035.5352, 1036.5372, 1039.5402, 1042.5383, 1045.5654, 1056.5488,
 1060.5400, 1060.5442, 1065.5425, 1086.5115, 1106.5372, 1111.5582, 1113.5546, 1114.5396, 1115.5605, 1118.5529, 1122.5363, 1128.5775,
 1129.6014, 1130.5935, 1140.5485, 1144.5709, 1155.6113, 1156.5720, 1157.5952, 1158.6154, 1159.6273, 1165.5817, 1172.6301, 1173.6259,
  1179.6063, 1180.6165, 1182.6090, 1183.6123, 1185.6317, 1187.6431, 1193.6096, 1195.6060, 1196.6102, 1206.6770, 1209.1387, 1209.5848,
 1210.1014, 1215.6627, 1216.6494, 1222.5994, 1226.5948, 1229.6246, 1231.6174, 1234.6317, 1235.5846, 1240.6298, 1244.6324, 1248.6119, 1250.6144, 1268.6498, 1271.6696, 1273.6653, 1275.6644, 1291.6425, 1300.6062, 1301.6205, 1307.6858, 1315.6570, 1317.6521, 1319.6852,
 1323.6517, 1325.6637, 1328.6809, 1329.6672, 1331.6763, 1332.6743, 1335.6937, 1336.6715, 1337.6724, 1338.6471, 1342.6680, 1345.6760, 1346.6880, 1349.6991, 1354.6907, 1355.7155, 1357.7034, 1360.6882, 1361.6670, 1365.6913, 1368.6920, 1374.6412, 1375.6798, 1376.6804,
 1377.6794, 1382.6647, 1387.6444, 1410.7505, 1411.7208, 1421.7177, 1427.7872, 1431.7961, 1432.7133, 1434.7288, 1450.7079, 1473.8054,
 1475.7748, 1477.7524, 1478.7439, 1485.7720, 1486.7664, 1493.7539, 1494.7423, 1505.8649, 1523.7841, 1524.7848, 1537.8021, 1555.8816, 1576.7987, 1579.7926, 1584.7897, 1588.8136, 1590.3611, 1604.8417, 1605.8098, 1606.8384, 1615.8826, 1616.8605, 1622.8137, 1628.8260,
 1629.8358, 1630.8466, 1633.9790, 1635.7943, 1644.8046, 1647.8785, 1649.8463, 1651.8245, 1659.8241, 1662.7909, 1668.7810, 1679.9736, 1681.8214, 1683.8121, 1684.8204, 1706.8616, 1707.7838, 1716.8571, 1725.8353, 1728.8242, 1734.8152, 1740.8768, 1742.9031, 1746.1659,
 1750.8356, 1751.8787, 1753.8948, 1756.8905, 1757.8322, 1763.8188, 1765.7690, 1767.8036, 1768.9027, 1769.4475, 1770.4261, 1774.9091, 1783.8499, 1786.9000, 1786.9017, 1791.7335, 1808.8868, 1824.8674, 1840.8225, 1844.8907, 1850.8301, 1851.8488, 1867.9503, 1880.9277,
 1887.9734, 1908.8838, 1914.9995, 1919.0038, 1925.9418, 1928.0103, 1931.9463, 1953.9353, 1975.9609, 1995.9020, 2007.9894,
                                                                                                                                                                                                                                        2011.8845
 2013.8983, 2024.8591, 2025.6234, 2036.5195, 2036.9486, 2042.0640, 2047.0167, 2047.9691, 2051.9792, 2052.9924, 2058.9963, 2060.0469,
 2064.9900, 2068.8982, 2070.8835, 2074.8914, 2083.9907, 2084.8987, 2086.8828, 2092.8821, 2095.9941, 2098.9976, 2100.9160, 2102.8872,
 2106.9011, 2108.8835, 2109.9175, 2114.9180, 2116.9160, 2118.8835, 2119.8833, 2125.0176, 2132.8694, 2136.9180, 2170.1467, 2211.1045,
 2225.1191, 2273.0496, 2277.0137, 2307.9941, 2322.9980, 2341.0366, 2343.0271, 2352.0571, 2355.0459, 2359.0532, 2366.0813, 2368.0544,
 2369.0710, 2376.0264, 2382.0349, 2383.6099, 2383.9600, 2390.0403, 2396.0342, 2398.0576, 2400.0652, 2406.0737, 2411.0076, 2414.0813, 2416.0752, 2417.0732, 2420.0718, 2422.0408, 2423.0466, 2428.0898, 2430.0828, 2431.0845, 2433.0779, 2436.0508, 2439.0261, 2442.0618,
 2449.0347, 2452.0632, 2460.0254, 2461.9956, 2463.9858, 2510.1277, 2528.1580, 2542.1509, 2545.1558, 2547.1531, 2552.1038, 2565.1543, 2585.1111, 2601.0889, 2705.2192, 2717.0693, 3129.3176, 3208.1736, 3223.2710, 3290.4131, 3291.4248, 3312.2756, 3451.3933, 3453.4365
F1MN93 Mass: 91564 Score: 18
                                                                          Expect: 3.8e+002 Matches: 29
 Uncharacterized protein OS=Bos taurus GN=TOP1 PE=4 SV=1
  Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide
                                                                               374 - 379
  735.3865
                                            734.3931 -18.95
                                                                                                                        K.MGMLKR.R
                       734.3792
  795.4186
                       794.4114
                                                                               448 - 453
                                                                                                                        K.YETARR.L
                                            794.4035
                                                               9.93
                                            802.4297
                                                                              315 - 321
  803.4370
                       802.4297
                                                                 0.06
                                                                                                                        K.AQTEARK.Q
                                                                              35 - 40 2 --- R.HKEHKK.D
                                            805.4558 -0.06
                      805.4558
                                            841.4909
889.4294
                       841.5012
                                                                              133 - 139 0 --- K.EDIKPLK.R
  842 5085
                                                                 12.3
                                                                              441 - 447 1 --- K.GEKDWQK.Y
407 - 413 1 --- K.EVRHDNK.V
                       889.4407
  890.4479
                                                                  12.7
  897.4412
                       896.4339
                                            896.4464 -13.97
                                            917.5117 21.9
                                                                              456 - 462 2 --- K.KCVDKIR.N
                      917.5318
  918.5391
                                            927.5178 -20.18 359 - 366 0 --- K.IEPPGLFR.G
929.4930 4.81 659 - 666 1 --- K.KEQLADAR.R
  928.5064
                       927.4991
  930.5048
                       929.4975
                                                                 978.4976
                      977.4903
                                            977.5043 -14.29
 1128.5775 1127.5702 1127.5580
                                                              10.9
1144.5709 1143.5636 1143.5529
                                                                              109 - 119 1 --- K.ENGFSSPPRIK.D
369 - 379 2 --- R.GNHPKMGMLKR.R
541 - 550 2 --- R.YYNKVPVEKR.V
1231.6174 1230.6101 1230.6357 -20.76
1268.6498 1267.6425 1267.6641 -17.05
1295 7233 1294 7160 1294 7033 9 80
1325.6637 1324.6564 1324.6856 -22.03 367 - 378 2 --- R.GRGNHPKMCMLK.R
1355.7155 1354.7082 1354.6915 12.4 580 - 591 0 --- K.HLQDLMEGLTAK.V
1357.7034 1356.6961 1356.6754 15.2 367 - 378 2 --- R.GRGNHPKMGMLK.R + 2 Oxidation (M) 1365.6913 1364.6840 1364.6792 3.56 647 - 658 1 --- K.SMMNLOSKIDAK.K
1365.6913 1364.6840 1364.6792 3.56 647 - 658 1 --- K.SMMNLQSKIDAK.K
1375.6798 1374.6725 1374.6891 -12.09 106 - 117 2 --- K.KEKENGFSSPPR.I
1432.7133 1431.7060 1431.7101 -2.88 381 - 392 0 --- R.IMPEDIIINCSK.D
1493.7539 1492.7466 1492.7741 -18.42 647 - 659 2 --- K.SMNLQSKIDAKK.E
1537.8021 1536.7948 1536.8188 -15.58 253 - 266 1 --- K.LSPKAEEVATFFAK.M
1588.8136 1587.8063 1587.8112 -3.10 380 - 392 1 --- R.RIMPEDIIINCSK.D
1604.8417 1603.8344 1603.8062 17.6 380 - 392 1 --- R.RIMPEDIINCSK.D + Oxidation (M)
1753.8948 1752.8875 1752.9087 -12.06 228 - 243 0 --- K.GPVFAPPYEPLENVK.F
1840.8225 1839.8152 1839.8136 0.88 2 - 17 0 --- M.SGDHLHNDSQIEADFR.L
1919.0038 1917.9965 1917.9652 16.3 380 - 395 2 --- R.RIMPEDIINCSKDAK.V + Oxidation (M)
Nomatch to: 713.4334, 719.2388, 724.3009, 726.2899, 732.2586, 745.4124, 756.4687, 764.4056, 765.39
 No match to: 713.4334, 719.2388, 724.3009, 726.2899, 732.2586, 745.4124, 756.4687, 764.4056, 765.3908, 767.3679, 768.3909, 772.3955, 802.4548, 805.4229, 807.3893, 809.4480, 811.4104, 812.3985, 816.4408, 820.4244, 822.3905, 823.3846, 824.3756, 828.3904, 834.4043, 836.4589, 837.3853, 839.3696, 840.3839, 845.4100, 845.4123, 851.3975, 852.4056, 856.4893, 866.3914, 867.3724, 870.5402,
 871.4945, 878.4625, 880.4403, 886.3815, 888.4233, 893.9562, 894.4579, 897.0289, 902.4597, 910.4410, 912.4497, 913.5118, 916.4905, 925.4747, 933.4619, 935.4698, 939.4758, 947.4628, 949.4591, 951.4703, 954.4674, 957.4657, 963.4676, 965.4761, 967.4568, 969.4571,
 972.4793, 972.4800, 975.4850, 977.4630, 981.4865, 983.4664, 985.4842, 991.4688, 993.5331, 997.4298, 999.4453, 1001.4488, 1003.4687, 1007.5668, 1018.5200, 1018.5212, 1023.4777, 1026.4922, 1027.4972, 1030.5151, 1031.3850, 1033.5419, 1035.5352, 1036.5372, 1039.5402, 1042.5383, 1045.5654, 1056.5488, 1060.5400, 1060.5442, 1065.5425, 1086.5115, 1106.5372, 1111.5582, 1113.5546, 1114.5396, 1115.5605, 1118.5529, 1122.5363, 1129.6014, 1130.5935, 1140.5485, 1155.613, 1156.5720, 1157.5952, 1158.6154, 1159.6273, 1165.5817, 1172.6301, 1173.6259, 1179.6063, 1180.6165, 1182.6090, 1183.6123, 1185.6317, 1187.6431, 1193.6096, 1195.6060, 1196.6102, 1206.6770, 1209.1387, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1200.5004, 1
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 1421.7177, 1427.7872, 1431.7961, 1434.7288, 1446.7256, 1450.7079, 1473.8054, 1475.7748, 1477.7524, 1478.7439, 1485.7720, 1486.7664,
 1494.7423, 1505.8649, 1523.7841, 1524.7848, 1549.7388, 1555.8816, 1558.8474, 1576.7987, 1579.7926, 1584.7897, 1590.3611, 1605.8098, 1606.8384, 1615.8826, 1616.8605, 1622.8137, 1628.8260, 1629.8358, 1630.8466, 1633.9790, 1635.7943, 1644.8046, 1647.8785, 1649.8463,
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 1768.9027, 1769.4475, 1770.4261, 1774.9091, 1783.8499, 1786.9000, 1786.9017, 1791.7335, 1808.8868, 1824.8674, 1844.8907, 1848.8322, 1850.8301, 1851.8488, 1867.9503, 1880.9277, 1887.9734, 1908.8838, 1914.9995, 1925.9418, 1928.0103, 1931.9463, 1953.9353, 1975.9609,
 1992.9642, 1995.9020, 2007.9894, 2011.8845, 2013.8983, 2024.8591, 2025.6234, 2036.5195, 2036.9486, 2042.0640, 2047.0167, 2047.9691, 2051.9792, 2052.9924, 2058.9963, 2060.0469, 2064.9900, 2068.8982, 2070.8835, 2074.8914, 2083.9907, 2084.8987, 2086.8828, 2092.8821,
 2095.9941, 2098.9976, 2100.9160, 2102.8872, 2106.9011, 2108.8835, 2109.9175, 2114.9180, 2116.9160, 2118.8835, 2119.8833, 2125.0176,
 2132.8694, 2136.9180, 2170.1467, 2211.1045, 2225.1191, 2273.0496, 2277.0137, 2307.9941, 2322.9980, 2341.0366, 2343.0271, 2352.0571, 2355.0459, 2359.0532, 2366.0813, 2368.0544, 2369.0710, 2376.0264, 2382.0349, 2383.6099, 2383.9600, 2390.0403, 2396.0342, 2398.0576,
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 2542.1509, 2545.1558, 2547.1531, 2552.1038, 2565.1543, 2585.1111, 2601.0889, 2705.2192, 2717.0693, 3129.3176, 3208.1736, 3223.2710,
 3290.4131, 3291.4248, 3312.2756, 3451.3933, 3453.4365
                                                                          Expect: 3.9e+002 Matches: 10
 03SX42
                  Mass: 23992
                                                Score: 18
 Charged multivesicular body protein 2b OS=Bos taurus GN=CHMP2B PE=2 SV=1
                                                                  Observed
                      Mr (expt.)
                                            Mr(calc)
                                                                                                      1 --- R.DRAALEK.Q
  802.4548
                       801.4475
                                            801.4344
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807.3893 806.3820 806.3956 -16.90 108 - 114 0 --- K.TMQAVNK.K + Oxidation (M)
837.3853 836.3780 836.3884 -12.43 91 - 97 0 --- K.VMNSQMK.M
916.4905 915.4832 915.5025 -21.08 33 - 40 1 --- R.AALEKQEK.Q
947.4628 946.4556 946.4654 -10.43 52 - 59 1 --- K.IGNKEACR.V
1187.6431 1186.6358 1186.6306 4.44 31 - 40 2 --- R.DRAALEKQEK.Q
1740.8768 1739.8695 1739.8368 18.8 98 - 114 1 --- K.MAGAMSTTAKTMQAVNK.K
1848.8322 1847.8249 1847.8427 -9.64 82 - 97 1 --- K.VTSMSTQTKVMNSQMK.M + 3 Oxidation (M)
1850.8301 1849.8228 1849.8042 10.1 91 - 107 1 --- K.VMNSQMKMAGAMSTTAK.T + 4 Oxidation (M)
2036.9486 2035.9413 2035.9909 -24.36 187 - 205 1 --- R.SLPSASTSKSTISDEDEIER.Q
 No match to: 713.4334, 719.2388, 724.3009, 726.2899, 732.2586, 735.3865, 745.4124, 756.4687, 764.4056, 765.3908, 767.3679, 768.3909, 772.3955, 795.4186, 803.4370, 805.4229, 806.4631, 809.4480, 811.4104, 812.3985, 816.4408, 820.4244, 822.3905, 823.3846, 824.3756, 828.3904, 834.4043, 836.4589, 839.3696, 840.3839, 842.5085, 845.4100, 845.4123, 851.3975, 852.4056, 856.4893, 866.3914,
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 991.4688, 993.5331, 997.4298, 999.4453, 1001.4488, 1003.4687, 1007.5668, 1018.5200, 1018.5212, 1023.4777, 1026.4922, 1027.4792, 1030.5151, 1031.3850, 1033.5419, 1035.5352, 1036.5372, 1039.5402, 1042.5383, 1045.5654, 1056.5488, 1060.5400, 1060.5442, 1065.5425
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  1354.6907, 1355.7155, 1357.7034, 1360.6882, 1361.6670, 1365.6913, 1368.6920, 1374.6412, 1375.6798, 1376.6804, 1377.6794, 1382.6647,
 1387.6444, 1410.7505, 1411.7208, 1421.7177, 1427.7872, 1431.7961, 1432.7133, 1434.7288, 1446.7256, 1450.7079, 1473.8054, 1475.7748, 1477.7524, 1478.7439, 1485.7720, 1486.7664, 1493.7539, 1494.7423, 1505.8649, 1523.7841, 1524.7848, 1537.8021, 1549.7388, 1555.8816,
 1558.8474, 1576.7987, 1579.7926, 1584.7897, 1588.8136, 1590.3611, 1604.8417, 1605.8098, 1606.8384, 1615.8826, 1616.8605, 1622.8137, 1628.8260, 1629.8358, 1630.8466, 1633.9790, 1635.7943, 1644.8046, 1647.8785, 1649.8463, 1651.8245, 1659.8241, 1662.7909, 1668.7810,
  1679.9736, 1681.8214, 1683.8121, 1684.8204, 1706.8616, 1707.7838, 1716.8571, 1725.8353, 1728.8242, 1734.8152, 1742.9031, 1746.1659,
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 1908.8838, 1914.9995, 1919.0038, 1925.9418, 1928.0103, 1931.9463, 1953.9353, 1975.9609, 1992.9642, 1995.9020, 2007.9894, 2011.8845,
 2013.8983, 2024.8591, 2025.6234, 2036.5195, 2042.0640, 2047.0167, 2047.9691, 2051.9792, 2052.9924, 2058.9963, 2060.0469, 2064.9900,
 2068.8982, 2070.8835, 2074.8914, 2083.9907, 2084.8987, 2086.8828, 2092.8821, 2095.9941, 2098.9976, 2100.9160, 2102.8872, 2106.9011,
 2108.8835, 2109.9175, 2114.9180, 2116.9160, 2118.8835, 2119.8833, 2125.0176, 2132.8694, 2136.9180, 2170.1467, 2211.1045, 2225.1191,
  2273.0496, 2277.0137, 2307.9941, 2322.9980, 2341.0366, 2343.0271, 2352.0571, 2355.0459, 2359.0532, 2366.0813, 2368.0544, 2369.0710,
 2376.0264, 2382.0349, 2383.6099, 2383.9600, 2390.0403, 2396.0342, 2398.0576, 2400.0652, 2406.0737, 2411.0076, 2414.0813, 2416.0752, 2417.0732, 2420.0718, 2422.0408, 2423.0466, 2428.0898, 2430.0828, 2431.0845, 2433.0779, 2436.0508, 2438.0457, 2439.0261, 2442.0618,
 2449.0347, 2452.0632, 2460.0254, 2461.9956, 2463.9858, 2510.1277, 2528.1580, 2542.1509, 2545.1558, 2547.1531, 2552.1038, 2565.1543, 2585.1111, 2601.0889, 2705.2192, 2717.0693, 3129.3176, 3208.1736, 3223.2710, 3290.4131, 3291.4248, 3312.2756, 3451.3933, 3453.4365
                                                     Score: 18
                                                                                     Expect: 3.9e+002 Matches: 10
                     Mass: 24053
 Meiotic nuclear division protein 1 homolog OS=Bos taurus GN=MND1 PE=4 SV=1

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss Ions
        Peptide

        806.4631
        805.4558
        805.4368
        23.6
        41 - 48
        0 ---
        K.GITAM

| No. 
 No match to: 713.4334, 719.2388, 724.3009, 726.2899, 732.2586, 735.3865, 745.4124, 756.4687, 764.4056, 765.3908, 767.3679,
 768.3909, 772.3955, 795.4186, 802.4548, 803.4370, 805.4229, 807.3893, 809.4480, 811.4104, 812.3985, 816.4408, 820.4244, 822.3905, 823.3846, 824.3756, 828.3904, 834.4043, 836.4589, 837.3853, 839.3696, 840.3839, 842.5085, 845.4100, 845.4123, 851.3975, 852.4056,
  856.4893, 866.3914, 867.3724, 870.5402, 871.4945, 878.4625, 880.4403, 886.3815, 888.4233, 890.4479, 893.9562, 897.0289, 897.4412,
 902.4597, 910.4410, 912.4447, 913.5118, 918.5391, 925.4747, 928.5064, 930.5048, 933.4619, 935.4698, 939.4758, 947.4628, 949.4591, 951.4703, 954.4674, 957.4657, 963.4676, 965.4761, 967.4568, 969.4571, 972.4793, 972.4800, 975.4650, 977.4630, 978.4976, 981.4565, 983.4664, 985.4842, 991.4688, 993.5331, 997.4298, 999.4453, 1001.4488, 1003.4687, 1007.5668, 1018.5200, 1018.5212, 1023.4777, 1026.4922, 1027.4972, 1030.5151, 1031.3850, 1033.5419, 1035.5352, 1036.5372, 1039.5402, 1042.5383, 1045.5654, 1056.5488, 1066.5402, 1066.5442, 1065.5425, 1086.5115, 1066.5372, 1111.5582, 1114.5586, 1114.5396, 1115.5605, 1118.5529, 1122.5363, 1128.5775, 1129.6014, 1130.5935, 1140.5485, 1144.5709, 1155.6113, 1156.5720, 1157.5952, 1158.6154, 1159.6273, 1165.5817, 1172.6301, 1173.6259, 1179.6063,
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 1751.8787, 1753.8948, 1756.8905, 1757.8322, 1763.8188, 1765.7690, 1767.8036, 1768.9027, 1769.4475, 1770.4261, 1774.9091, 1783.8499,
 1786.9000, 1786.9017, 1791.7335, 1808.8868, 1824.8674, 1840.8225, 1844.8907, 1848.8322, 1850.8301, 1851.8488, 1867.9503, 1880.9277,
 1887.9734, 1908.8838, 1914.9995, 1919.0038, 1925.9418, 1928.0103, 1931.9463, 1975.9609, 1992.9642, 1995.9020, 2007.9894, 2011.8845, 2013.8983, 2024.8591, 2025.6234, 2036.5195, 2036.9486, 2042.0640, 2047.0167, 2047.9691, 2051.9792, 2052.9924, 2058.9963, 2060.0469, 2064.9900, 2068.8982, 2070.8835, 2074.8914, 2083.9907, 2084.8987, 2086.8828, 2092.8821, 2095.9941, 2098.9976, 2100.9160, 2102.8872,
 2106.9011, 2108.8835, 2109.9175, 2114.9180, 2116.9160, 2118.8835, 2119.8833, 2125.0176, 2132.8694, 2136.9180, 2170.1467, 2225.1191, 2273.0496, 2277.0137, 2307.9941, 2322.9980, 2341.0366, 2343.0271, 2352.0571, 2355.0459, 2359.0532, 2366.0813, 2368.0544, 2369.0710,
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 2585.1111, 2601.0889, 2705.2192, 2717.0693, 3129.3176, 3208.1736, 3223.2710, 3290.4131, 3291.4248, 3312.2756, 3451.3933, 3453.4365
032L19 Mass: 24083 Score: 18
                                                                                     Expect: 3.9e+002 Matches: 10
 Meiotic nuclear division protein 1 homolog OS=Bos taurus GN=MND1 PE=2 SV=1

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss
        Ions
        Peptide

        836.4589
        835.4516
        835.4473
        5.08
        41 - 48
        0 ---
        K.GITTMSVK.E

                          893.4507
                                                   893.4606 -11.16
                                                                                            139 - 145
                                                                                                                                           K.AEVEKYR.E
916.4905 915.4832 915.4774 6.37 132 - 138 1 --- R.DQREQLK.A
1226.5948 1225.5875 1225.5979 -8.45 184 - 193 1 --- K.FGFENKIDK.N
1268.6498 1267.6425 1267.6118 24.2 25 - 34 1 --- K.DVFQLKDMEK.I + Oxidation (M)
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1354.6907 1353.6834 1353.6928 -6.96 183 - 193 2 --- R.KFGFEENKIDK.N

1579.7926 1578.7853 1578.8194 -21.61 169 - 181 1 --- R.WIDNIFAIKSWAK.R

1647.8785 1646.8712 1646.8774 -3.72 121 - 134 2 --- R.TMLAKELSSLRDQR.E

1953.9353 1952.9280 1952.9264 0.85 16 - 30 1 --- R.MMEIFYETKDVFQLK.D + 2 Oxidation (M)

2211.1045 2210.0972 2210.0752 9.99 14 - 30 2 --- R.TRMMEIFYETKDVFQLK.D + 2 Oxidation (M)
 No match to: 713.4334, 719.2388, 724.3009, 726.2899, 732.2586, 735.3865, 745.4124, 756.4687, 764.4056, 765.3908, 767.3679, 768.3909, 772.3955, 795.4186, 802.4548, 803.4370, 805.4229, 806.4631, 807.3893, 809.4480, 811.4104, 812.3985, 816.4408, 820.4244, 822.3905, 823.3846, 824.3756, 828.3904, 834.4043, 837.3853, 839.3696, 840.3839, 842.5085, 845.4100, 845.4123, 851.3975, 852.4056,
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  1786.9000, 1786.9017, 1791.7335, 1808.8868, 1824.8674, 1840.8225, 1844.8907, 1848.8322, 1850.8301, 1851.8488, 1867.9503, 1880.927
 1887.9734, 1908.8838, 1914.9995, 1919.0038, 1925.9418, 1928.0103, 1931.9463, 1975.9609, 1992.9642, 1995.9020, 2007.9894, 2011.8845, 2013.8983, 2024.8591, 2025.6234, 2036.5195, 2036.9486, 2042.0640, 2047.0167, 2047.9691, 2051.9792, 2052.9924, 2058.9963, 2060.0469,
 2064.9900, 2068.8982, 2070.8835, 2074.8914, 2083.9907, 2084.8987, 2086.8828, 2092.8821, 2095.9941, 2098.9976, 2100.9160, 2102.8872, 2106.9011, 2108.8835, 2109.9175, 2114.9180, 2116.9160, 2118.8835, 2119.8833, 2125.0176, 2132.8694, 2136.9180, 2170.1467, 2225.1191,
 2273.0496, 2277.0137, 2307.9941, 2322.9980, 2341.0366, 2343.0271, 2352.0571, 2355.0459, 2359.0532, 2366.0813, 2368.0544, 2369.0710,
 2376.0264, 2382.0349, 2383.6099, 2383.9600, 2390.0403, 2396.0342, 2398.0576, 2400.0652, 2406.0737, 2411.0076, 2414.0813, 2416.0752,
 2417.0732, 2420.0718, 2422.0408, 2423.0466, 2428.0898, 2430.0828, 2431.0845, 2433.0779, 2436.0508, 2438.0457, 2439.0261, 2442.0618,
 2449.0347, 2452.0632, 2460.0254, 2461.9956, 2463.9858, 2510.1277, 2528.1580, 2542.1509, 2545.1558, 2547.1531, 2552.1038, 2565.1543, 2585.1111, 2601.0889, 2705.2192, 2717.0693, 3129.3176, 3208.1736, 3223.2710, 3290.4131, 3291.4248, 3312.2756, 3451.3933, 3453.4365
                                                      Score: 18
                                                                                   Expect: 4e+002 Matches: 10
 ADM OS=Bos taurus GN=ADM PE=2 SV=2

        Observed
        Mr(expt)
        Mr(calc)
        ppm
        Start
        End Miss Ions
        Peptide

        845.4100
        844.4027
        844.4039
        -1.37
        131
        - 138
        1
        5
        K.DKDGS.

                                                844.4039 1.34 131 - 138 1 --- K.DKDGSAPR.S
870.4671 23.1 171 - 178 1 --- K.LRGAPDSR.V
                          844.4050
                       870.4872
871.4945 870.4872 870.4671 23.1 171 - 178 1 --- K.LKGAPDSR.V

1033.5419 1032.5346 1032.5465 -11.47 141 - 149 1 --- K.LKGAPDSR.V

1060.5400 1059.5327 1059.5309 1.75 131 - 140 2 --- K.DKDGSAPRSK.I

1060.5442 1059.5369 1059.5309 5.71 131 - 140 2 --- K.DKDGSAPRSK.I

1086.5115 1085.5042 1085.5101 -5.44 79 - 89 0 --- R.SPQASSPDAAR.I

1355.7155 1354.7082 1354.6953 9.54 79 - 91 1 --- R.SPQASSPDAAR.I

1751.8787 1750.8714 1750.8737 -1.31 45 - 60 1 --- R.ELRESSSYPTGLADVK.A

1783.8499 1782.8426 1782.8884 -8.84 97 - 111 1 --- R.QSLNNFQGLRSFGCR.F
 No match to: 713.4334, 719.2388, 724.3009, 726.2899, 732.2586, 735.3865, 745.4124, 756.4687, 764.4056, 765.3908, 767.3679, 768.3909, 772.3955, 795.4186, 802.4548, 803.4370, 805.4229, 806.4631, 807.3893, 809.4480, 811.4104, 812.3985, 816.4408, 820.4244, 822.3905, 823.3846, 824.3756, 828.3904, 834.4043, 836.4589, 837.3853, 839.3696, 840.3839, 842.5085, 851.3975, 852.4056, 856.4893,
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                                                   Score: 18
                                                                                  Expect: 4.1e+002 Matches: 10
 Q05B49
                   Mass: 24773
 UPF0711 protein C18orf21 homolog OS=Bos taurus PE=2 SV=1

        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss
        Ions
        Peptide

        805.4558
        805.4559
        -0.10
        110
        - 116
        1
        ---
        R.TVKHH

        870.4872
        870.5035
        -18.70
        72
        - 78
        1
        ---
        K.LLNREZ

  Observed
                                                                                                                                     R.TVKHHGK.S
  878.4625 877.4552
                                                877.4440 12.8 106 - 112 1 --- K.TCNRTVK.H
                                                                                      1035.5352 1034.5279 1034.5331 -5.01
1229.6246 1228.6173 1228.5910 21.4
1337.6724 1336.6651 1336.6782 -9.81
1584.7897 1583.7824 1583.7766 3.68
1647.8785 1646.8712 1646.8351 21.9
2225.1191 2224.1118 2224.1158 -1.78
```

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2449.0347 2448.0274 2448.0872 -24.43 37 - 56 1 --- K.STFEGTCPYCCQLLVQDKSR.V

No match to: 713.4334, 719.2388, 724.3009, 726.2899, 732.2586, 735.3865, 745.4124, 756.4687, 764.4056, 765.3908, 767.3679, 768.3909, 772.3955, 795.4186, 802.4548, 803.4370, 805.4229, 807.3893, 809.4480, 811.4104, 812.3985, 816.4408, 820.4244, 822.3905, 823.3846, 824.3756, 828.3904, 834.4043, 836.4589, 837.3853, 839.3696, 840.3839, 842.5085, 845.4100, 845.4123, 851.3975, 852.4056,
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 1273.6653, 1275.6644, 1291.6425, 1295.7233, 1300.6062, 1301.6205, 1307.6858, 1315.6570, 1317.6521, 1319.6852, 1323.6517, 1328.6809, 1329.6672, 1331.6763, 1332.6743, 1334.6592, 1335.6937, 1336.6715, 1338.6471, 1342.6680, 1345.6760, 1346.6880, 1349.6991,
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                                                              Expect: 4.1e+002 Matches: 10
 FUN14 domain-containing protein 2 OS=Bos taurus GN=FUNDC2 PE=2 SV=1
No match to: 713.4334, 719.2388, 724.3009, 726.2899, 732.2586, 735.3865, 745.4124, 756.4687, 764.4056, 767.3679, 768.3909, 795.4186, 802.4548, 803.4370, 805.4229, 806.4631, 807.3893, 809.4480, 811.4104, 812.3985, 816.4408, 820.4244, 822.3905, 823.3846, 824.3756, 828.3904, 834.4043, 836.4589, 837.3853, 839.3696, 840.3839, 842.5085, 845.4100, 845.4123, 851.3975, 856.4893, 866.3914,
 867.3724, 870.5402, 871.4945, 878.4625, 880.4403, 886.3815, 888.4233, 890.4479, 893.9562, 894.4579, 897.0289, 897.4412,
                                                                                                                                                                                                   902 4597
 901.4410, 912.4497, 913.5118, 916.4905, 918.5391, 925.4747, 928.5064, 930.5048, 933.4619, 935.4698, 939.4758, 947.4628, 949.4591, 951.4703, 954.4674, 957.4657, 963.4676, 965.4761, 967.4568, 969.4571, 972.4793, 972.4800, 975.4650, 977.4630, 978.4976, 981.4565, 983.4664, 985.4842, 991.4688, 993.5331, 997.4298, 999.4453, 1001.4488, 1003.4687, 1007.5668, 1018.5200, 1018.5212, 1023.4777, 1026.4922, 1027.4972, 1030.5151, 1031.3850, 1033.5419, 1035.5352, 1036.5372, 1039.5402, 1042.5383, 1045.5654, 1056.5488, 1060.5400,
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 1382.6647, 1387.6444, 1410.7505, 1411.7208, 1421.7177, 1427.7872, 1431.7961, 1432.7133, 1434.7288, 1446.7256, 1450.7079, 1473.8054, 1475.7748, 1477.7524, 1478.7439, 1485.7720, 1486.7664, 1493.7539, 1494.7423, 1505.8649, 1523.7841, 1524.7848, 1537.8021, 1549.7388,
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  2068.8982, 2070.8835, 2074.8914, 2083.9907, 2084.8987, 2086.8828, 2092.8821, 2095.9941, 2098.9976, 2100.9160, 2102.8872, 2106.9011,
 2108.8835, 2109.9175, 2114.9180, 2116.9160, 2118.8835, 2119.8833, 2125.0176, 2132.8694, 2136.9180, 2170.1467, 2211.1045, 2225.1191,
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                                                              Expect: 4.2e+002 Matches: 12
 Q32LM7 Mass: 28555 Score: 18
 Coiled-coil domain-containing protein 152 OS=Bos taurus GN=CCDC152 PE=2 SV=2
154 - 167 1 ---
 1706.8616 1705.8543 1705.8709 -9.70
                                                                                                     K. ONEMIKLOLEFDAK.L
                                                      -2.74
 2051.9792 2050.9719 2050.9775
                                                                      2 - 19 2 ---
                                                                                                     M.NQNSEGCMKKISSVNLDK.L
 No match to: 713.4334, 719.2388, 724.3009, 726.2899, 732.2586, 735.3865, 745.4124, 756.4687, 764.4056, 765.3908, 768.3909,
 772.3955, 795.4186, 803.4370, 805.4229, 806.4631, 807.3893, 809.4480, 811.4104, 812.3985, 816.4408, 820.4244, 822.3905, 823.3846,
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824.3756, 828.3904, 834.4043, 836.4589, 837.3853, 839.3696, 840.3839, 842.5085, 845.4100, 845.4123, 851.3975, 852.4056, 856.4893, 866.3914, 867.3724, 870.5402, 871.4945, 878.4625, 880.4403, 886.3815, 888.4233, 890.4479, 893.9562, 894.4579, 897.0289, 897.4412, 902.4597, 910.4410, 912.4497, 913.5118, 916.4905, 918.5391, 925.4747, 928.5064, 930.5048, 933.4619, 935.4698, 939.4758, 947.4628, 949.4591, 951.4703, 954.4674, 957.4657, 963.4676, 965.4761, 967.4568, 969.4571, 972.4793, 972.4800, 975.4650, 977.4630, 978.4976, 981.4565, 983.4664, 985.4842, 991.4688, 993.5331, 997.4298, 999.4453, 1001.4488, 1003.4687, 1007.5668, 1018.5200, 1018.5212,
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  1275.6644, 1291.6425, 1295.7233, 1300.6062, 1301.6205, 1307.6858, 1315.6570, 1317.6521, 1319.6852, 1323.6517, 1325.6637, 1328.6809, 1329.6672, 1331.6763, 1332.6743, 1334.6592, 1335.6937, 1336.6715, 1337.6724, 1338.6471, 1342.6680, 1345.6760, 1346.6880, 1354.6907,
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  2025.6234, 2036.5195, 2036.9486, 2042.0640, 2047.0167, 2047.9691, 2052.9924, 2058.9963, 2060.0469, 2064.9900, 2068.8982, 2070.8835, 2074.8914, 2083.9907, 2084.8987, 2086.8828, 2092.8821, 2095.9941, 2098.9976, 2100.9160, 2102.8872, 2106.9011, 2108.8835, 2109.9175,
 2014.9180, 2116.9160, 2118.8835, 2198.8933, 2125.0176, 2132.8694, 2136.9910, 2107.01467, 2021.1045, 2225.1019, 2173.0496, 2277.0137, 2307.9941, 2322.9980, 2341.0366, 2343.0271, 2352.0571, 2355.0459, 2359.0532, 2366.0813, 2368.0544, 2369.0710, 2376.0264, 2382.0349, 2383.6099, 2383.9600, 2390.0403, 2396.0342, 2398.0576, 2400.0652, 2406.0737, 2411.0076, 2414.0813, 2416.0752, 2417.0732, 2420.0718, 2422.0408, 2423.0466, 2428.0898, 2430.0828, 2431.0845, 2433.0779, 2436.0508, 2438.0457, 2439.0261, 2442.0618, 2449.0347, 2452.0632, 2460.0254, 2461.9956, 2463.9858, 2510.1277, 2528.1580, 2542.1509, 2545.1558, 2547.1531, 2552.1038, 2565.1543, 2585.1111, 2601.0889,
  2705.2192, 2717.0693, 3129.3176, 3208.1736, 3223.2710, 3290.4131, 3291.4248, 3312.2756, 3451.3933, 3453.4365
                                                                                                Expect: 4.2e+002 Matches: 12
  Coiled-coil domain-containing protein 152 OS=Bos taurus GN=CCDC152 PE=4 SV=2

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss Tons
        Peptide

        767.3679
        766.3606
        766.3531
        9.86
        31 - 37 0 ---
        K.MIESSGK.N + Oxidation (M)

        802.4548
        801.4475
        801.4475
        2.26
        146 - 151 1 ---
        K.LRTGER.E

        1035.5352
        1034.5279
        1034.5066
        20.6
        152 - 159 1 ---
        R.EKQNEMIK.L + Oxidation (M)

        1130.5935
        1129.5862
        1129.5840
        2.00
        209 - 217 1 ---
        R.NTVRDLEQR.L

        1180.6165
        1179.6092
        1179.5992
        8.54
        54 - 63 1 ---
        R.VMQTKEVAMK.Q + Oxidation (M)

        1349.6991
        1348.6918
        1348.6918
        1348.6918
        1348.6918
        1348.6918
        1348.6918
        1548.7566 - 16.17
        148 - 58 1 ---
        K.ANCLLRWMQTK.E + Oxidation (M)

        1549.7388
        1548.7315
        1548.7566 - 16.17
        148 - 159 2 ---
        R.TQEREKONEMIK.L + Oxidation (M)

        1659.8241
        1658.8168
        1658.8410 -14.55
        59 - 72 2 ---
        R.CVAMKQGENEQLKR.N

        1706.8616
        1705.8543
        1705.8709 -9.70
        154 - 167 1 ---
        K.QNEMIKLQLEFDAK.L

        <
   Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide
  949.4591, 951.4703, 954.4674, 957.4657, 963.4676, 965.4761, 967.4568, 969.4571, 972.4793, 972.4800, 975.4650, 977.4630, 978.4976, 981.4565, 983.4664, 985.4842, 991.4688, 993.5331, 997.4298, 999.4453, 1001.4488, 1003.4687, 1007.5668, 1018.5200, 1018.5212,
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  1183.6123, 1185.6317, 1187.6431, 1193.6096, 1195.6060, 1206.6770, 1209.1387, 1209.5848, 1210.1014, 1215.6627, 1216.6494, 1222.5999, 1226.5948, 1229.6246, 1231.6174, 1234.6317, 1235.5846, 1240.6298, 1244.6324, 1248.6119, 1250.6144, 1268.6498, 1271.6696, 1273.6653,
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                                                                                                Expect: 4.3e+002 Matches: 14
EF-hand domain-containing protein D2 OS=Bos taurus GN=EFHD2 PE=2 SV=1
```

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No match to: 713.4334, 719.2388, 724.3009, 726.2899, 732.2586, 735.3865, 745.4124, 756.4687, 764.4056, 765.3908, 767.3679, 768.3909, 772.3955, 795.4186, 802.4548, 803.4370, 805.4229, 806.4631, 807.3893, 809.4480, 811.4104, 812.3985, 816.4408, 820.4244, 822.3905, 823.3846, 824.3756, 828.3904, 836.4589, 837.3853, 839.3696, 840.3839, 842.5085, 845.4100, 845.4123, 851.3975, 852.4056,
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  1931.9463, 1953.9353, 1975.9609, 1992.9642, 1995.9020, 2007.9894, 2011.8845, 2013.8983, 2024.8591, 2025.6234, 2036.5195, 2036.9486, 2042.0640, 2047.0167, 2047.9691, 2051.9792, 2052.9924, 2058.9963, 2060.0469, 2064.9900, 2068.8982, 2070.8835, 2074.8914, 2083.9907,
  2084.8987, 2086.8828, 2092.8821, 2095.9941, 2098.9976, 2100.9160, 2102.8872, 2106.9011, 2108.8835, 2109.9175, 2114.9180, 2116.9160, 2118.8835, 2119.8833, 2125.0176, 2132.8694, 2136.9180, 2170.1467, 2211.1045, 2225.1191, 2273.0496, 2277.0137, 2307.9941, 2322.9980,
  2341.0366, 2343.0271, 2352.0571, 2355.0459, 2359.0532, 2366.0813, 2368.0544, 2369.0710, 2376.0264, 2382.0349, 2383.6099, 2383.9600, 2390.0403, 2396.0342, 2398.0576, 2400.0652, 2406.0737, 2411.0076, 2414.0813, 2416.0752, 2417.0732, 2420.0718, 2422.0408, 2423.0466,
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  2463.9858, 2510.1277, 2528.1580, 2542.1509, 2545.1558, 2547.1531, 2552.1038, 2565.1543, 2585.1111, 2601.0889, 2705.2192, 2717.0693, 3129.3176, 3208.1736, 3223.2710, 3290.4131, 3291.4248, 3312.2756, 3451.3933, 3453.4365
                      Mass: 141959 Score: 17
                                                                                     Expect: 4.6e+002 Matches: 39
  Structural maintenance of chromosomes protein OS=Bos taurus GN=SMC3 PE=3 SV=1

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss
        Ions
        Peptide

        806.4631
        805.4558
        805.4731
        -21.54
        1053
        - 1059
        1
        ---
        K.ATLVMI

                                                                                                                                           K.ATLVMKK.G + Oxidation (M)
                           819.4171
                                                   819.4273 -12.40 873 - 879 1 ---
                                                                                                                                           R.VKDTMAR.S
   820.4244
                                                  819.4273 -12.40 873 - 879 1 --- K.YALIMAR.J

823.3568 14.0 937 - 942 1 --- K.EECMKK.I

850.4007 -12.29 904 - 909 1 --- R.WKNMEK.E +

851.3959 2.84 900 - 905 1 --- K.SMERNK.N +

893.4680 -19.45 572 - 578 0 --- K.ILMEFNK.M

915.4774 6.37 365 - 372 0 --- R.LAQATQER.T

917.5368 -5.47 1069 - 1076 2 --- R.MKEKGVVK.E
   824.3756
                           823.3683
                                                                                                                                           R.WKNMEK.E + Oxidation (M)
   851.3975
                          850.3902
                           851.3984
                                                                                                                                          K.SMERWK.N + Oxidation (M)
                           893.4507
                           915.4832
                           917.5318
                                                  934.4793 -17.99 281 - 288 1 ---
938.4610 8.05 615 - 621 1 ---
                           934.4625
                                                                                                                                           K.ISAMKEEK.E
938.4686 938.4610 8.05 615 - 621 1 --- R.YMPRTDK.A
951.4703 950.4631 950.4742 -11.76 281 - 288 1 --- K.ISAMKEEK.E +
1056.5488 1055.5415 1055.5287 12.1 107 - 114 1 --- K.DQYFLDKK.M
1158.6154 1157.6081 1157.6346 -22.83 1185 - 1193 2 --- K.FYGVKFRNK.V
1165.5817 1164.5744 1164.5775 -2.60 428 - 436 1 --- K.EKNLEQYNK.L
1172.6301 1171.6228 1171.6084 12.3 341 - 350 1 --- K.QKELAETEPK.F
1180.6165 1179.6092 1179.6169 -6.49 279 - 288 2 --- K.TKISAMKEEK.E
                                                                                                                                           K.ISAMKEEK.E + Oxidation (M)
                                                                                                                                           K.OKELAETEPK.F
                                                                                                                                          K.TKISAMKEEK.E + Oxidation (M)
 1235.5846 1234.5773 1234.5976 -16.41 1060 - 1070 1 ---
1250.6144 1249.6071 1249.6302 -18.49 828 - 837 0 ---
                                                                                                                                           K.GDVEGSQLRMK.E + Oxidation (M)
                                                                                                                                           R.VETYLNENLR.K
 1301.6205 1300.6132 1300.6259 -9.71 475 - 486 0 ---
1334.6592 1333.6519 1333.6812 -21.96 896 - 905 2 ---
                                                                                                                                           R.EENAEQQALAAK.R
                                                                                                                                           K.ELOKSMERWK.N
 1335.6937 1334.6864 1334.7162 -22.33 925 - 935 2 --- K.MTNRQCMLLKK.1
1338.6471 1337.6398 1337.6220 13.3 900 - 909 2 --- K.SMERWKNMEK.E
                                                                                                                                           K.MTNRQGMLLKK.K + Oxidation (M)
 1345.6760 1344.6687 1344.6772 -6.32
                                                                                         684 - 695 1 ---
                                                                                                                                           R.KAEEELGELEAK.L
 1434.7288 1433.7215 1433.6933 19.7 265 - 275 2 --- R.DKMEDIERQVR.E + Oxidation (M)

    1485.7720
    1484.7647
    1484.7471
    11.9
    840 - 851
    0 ---

    1523.7841
    1522.7768
    1522.7562
    13.5
    747 - 758
    2 ---

                                                                                                                                           R.LDOVEQELNELR.E
1523.7841 1522.7768 1522.7562 13.5 747 - 758 2 --- R.QQEKTMPKQR.S + Oxidation (M)
1588.8136 1587.8063 1587.8039 1.55 144 - 157 1 --- K.INQMATAPDSQRLK.L + Oxidation (M)
1616.8605 1615.8532 1615.8569 -2.30 943 - 956 1 --- K.IRELGSLPQEAFEK.Y
1644.8046 1643.7973 1643.8049 -4.63 141 - 155 1 --- K.IRELGSLPQEAFEK.Y
1706.8616 1705.8543 1705.8855 -18.26 921 - 934 2 --- K.ELERMTNRQCMLLK.K + Oxidation (M)
1734.8152 1733.8079 1733.8319 -13.83 880 - 895 1 --- R.SEDLDNSIDKTEAGIK.E
1740.8768 1739.8695 1739.8301 22.7 208 - 220 2 --- K.ELLAQYQKWDKMR.R + Oxidation (M)
1742.9031 1741.8958 1741.9071 -6.45 289 - 302 2 --- K.EULSAERQEGIKQR.T
1786.9000 1785.8927 1785.9010 -4.61 373 - 388 2 --- R.TDLYAKQGRSQFTSK.E
1786.9017 1785.8944 1785.9010 -3.66 373 - 388 2 --- R.TDLYAKQGRSQFTSK.E
1844.8907 1843.8834 1843.9275 -23.91 286 - 300 2 --- K.EEKEQLSAERQEQIK.Q
1995.9020 1994.8947 1994.8826 6.06 645 - 661 0 --- R.AFTMDCITLEGDQVSHR.G + Oxidation (M)
2042.0640 2059.0396 2059.0116 13.6 757 - 774 1 --- K.QRSLQSLEASLHAMESTR.E + Oxidation (M)
No match to: 713.4334, 719.2388, 724.3009, 726.2899, 732.2586, 735.3865, 745.4124, 756.4687, 764.4056.
                                                                                                                                           R.QQSEKTFMPKQR.S + Oxidation (M)
  No match to: 713.4334, 719.2388, 724.3009, 726.2899, 732.2586, 735.3865, 745.4124, 756.4687, 764.4056, 765.3908, 767.3679
  No match to: 713.4334, 719.2388, 724.3009, 726.2899, 732.2586, 735.3865, 745.4124, 756.4687, 764.4056, 765.3908, 767.3679, 768.3909, 772.3955, 795.4186, 802.4548, 803.4370, 805.4229, 807.3893, 809.4480, 811.4104, 812.3985, 816.4408, 822.3905, 823.3846, 828.3904, 834.4043, 836.4589, 837.3853, 839.3696, 840.3839, 842.5085, 845.4100, 845.4123, 856.4893, 866.3914, 867.3724, 870.5402, 871.4945, 878.4625, 880.4403, 886.3815, 888.4233, 890.4479, 893.9562, 897.0289, 897.4412, 902.4597, 910.4410, 912.4497, 913.5118, 925.4747, 928.5064, 930.5048, 933.4619, 947.4628, 949.4591, 954.4674, 957.4657, 963.4676, 965.4761, 967.4568, 969.4571, 972.4793, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973.4709, 973
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  1753.8948, 1756.8905, 1757.8322, 1763.8188, 1765.7690, 1767.8036, 1768.9027, 1769.4475, 1770.4261, 1774.9091, 1783.8499, 1791.7335,
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   2036.9486, 2047.0167, 2047.9691, 2051.9792, 2052.9924, 2058.9963, 2064.9900, 2068.8982, 2070.8835, 2074.8914, 2083.9907, 2084.8987,
   2086.8828, 2092.8821, 2095.9941, 2098.9976, 2100.9160, 2102.8872, 2106.9011, 2108.8835, 2109.9175, 2114.9180, 2116.9160, 2118.8835, 2119.8833, 2125.0176, 2132.8694, 2136.9180, 2170.1467, 2211.1045, 2225.1191, 2273.0496, 2277.0137, 2307.9941, 2322.9980, 2341.0366,
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   3208.1736, 3223.2710, 3290.4131, 3291.4248, 3312.2756, 3451.3933, 3453.4365
   E1BMK2
                        Mass: 25092 Score: 17
                                                                                                                 Expect: 4.7e+002 Matches: 10
   Uncharacterized protein OS=Bos taurus PE=4 SV=2

        Observed
        Mr(expt)
        Mr(calc)
        ppm
        Start
        End Miss Ions
        Peptide

        916.4905
        915.4832
        915.4814
        1.97
        89 - 96
        1 ---
        K.FKDPN

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Wiss
        Ions
        Peptide

        916.4905
        915.4822
        915.4814
        1.97
        89
        -96
        1
        ----
        K.FKDPNAPK.R

        1036.5372
        1035.5299
        1035.5461
        -15.63
        66
        -73
        2
        ----
        K.VDKARYER.E

        1128.5775
        1127.5702
        1127.5611
        8.11
        155
        -163
        1
        ----
        K.YEKDIAAYR.A

        1128.6090
        1181.6017
        1181.5750
        22.6
        56
        -65
        2
        ----
        K.EKGKFEDMAK.V

        1325.6637
        1324.6564
        1324.6644
        8.89
        -60
        -70
        2
        ----
        K.EMCKFEDMAK.V

        1537.8021
        1536.7948
        1536.7858
        5.90
        74
        -86
        2
        ----
        R.EMKTYIPPKGETK.K + Oxidation (M)

        1681.8214
        1680.8141
        1680.7752
        23.1
        11
        -24
        1
        ----
        R.EMCKMSSYAFFVQTCR.E

        2125.0176
        2124.0103
        2123.9694
        19.3
        31
        -48

   No match to: 713.4334, 719.2388, 724.3009, 726.2899, 732.2586, 735.3865, 745.4124, 756.4687, 764.4056, 765.3908, 767.3679, 768.3909, 772.3955, 795.4186, 802.4548, 803.4370, 805.4229, 806.4631, 807.3893, 809.4480, 811.4104, 812.3985, 816.4408, 820.4244, 822.3905, 823.3846, 824.3756, 828.3904, 834.4043, 836.4589, 837.3853, 839.3696, 840.3839, 842.5085, 845.4100, 845.4123, 851.3975,
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   1786.9000, 1786.9017, 1791.7335, 1808.8868, 1824.8674, 1840.8225, 1844.8907, 1848.8322, 1850.8301, 1851.8488, 1867.9503, 1880.9277, 1887.9734, 1908.8838, 1914.9995, 1919.0038, 1925.9418, 1928.0103, 1931.9463, 1953.9353, 1975.9609, 1992.9642, 1995.9020, 2007.9894, 2011.8845, 2013.8983, 2024.8591, 2025.6234, 2036.5195, 2036.9486, 2042.0640, 2047.0167, 2047.9691, 2051.9792, 2052.9924, 2058.9963,
   2060.0469, 2064.9900, 2068.8982, 2070.8835, 2074.8914, 2083.9907, 2084.8987, 2086.8828, 2092.8821, 2095.9941, 2098.9976, 2100.9160, 2102.8872, 2106.9011, 2108.8835, 2109.9175, 2114.9180, 2116.9160, 2118.8835, 2119.8833, 2132.8694, 2170.1467, 2211.1045, 2225.1191,
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   2417.0732, 2420.0718, 2422.0408, 2423.0466, 2428.0898, 2430.0828, 2431.0845, 2433.0779, 2436.0508, 2438.0457, 2439.0261, 2442.0618,
   2449.0347, 2452.0632, 2460.0254, 2461.9956, 2463.9858, 2510.1277, 2528.1580, 2542.1509, 2545.1558, 2547.1531, 2552.1038, 2565.1543, 2585.1111, 2601.0889, 2705.2192, 2717.0693, 3129.3176, 3208.1736, 3223.2710, 3290.4131, 3291.4248, 3312.2756, 3451.3933, 3453.4365
  A7MBI0 Mass: 50969 Score: 17
                                                                                                                      Expect: 4.9e+002 Matches: 17
Protein kinase C and casein kinase substrate in neurons protein 1 OS=Bos taurus GN=PACSIN1 PE=2 SV=1

Observed Mr (expt) Mr (calc) ppm Start End Miss Ions Peptide

745.4124 744.4051 744.4018 4.51 212 - 218 0 ---- K.VLDDVGK.T

802.4548 801.4475 801.4497 -2.76 113 - 118 1 --- K.VKNWQK.D

925.4747 924.4674 924.4552 13.2 205 - 211 1 ---- K.TQEKYEK.V

935.4698 934.4625 934.4793 -17.99 150 - 157 1 --- K.MKELEAAK.K + Oxidation (M)

951.4703 950.4631 950.4457 18.2 134 - 141 1 --- K.EAEDGFRK.A

1165.5817 1164.5744 1164.6026 -24.23 209 - 218 1 --- K.YEVLDDVGK.T

1248.6119 1247.6046 1247.5968 6.26 159 - 168 1 --- K.YEVLDDVGK.T

1376.6804 1375.6731 1375.6918 -13.56 158 - 168 2 --- K.KAYHLACKEEK.L

1376.6804 1375.6731 1375.6918 -13.56 158 - 168 2 --- K.KAYHLACKEEK.L

1450.7079 1449.7006 1449.7364 -24.70 55 - 66 1 --- K.AYAQQLTDWAKR.W

1523.7841 1522.7768 1522.77627 9.27 200 - 211 2 --- K.QDVGKTGEKYEK.V

1651.8245 1650.8172 1650.8465 -17.70 205 - 218 2 --- K.TQEKYEKVLDDVGK.T

1768.9027 1767.8954 1767.8614 19.3 119 - 133 2 --- K.DAYHKQIMGGFKETK.E + Oxidation (M)

2007.9894 2006.9821 2006.9579 12.1 174 - 190 2 --- R.EMNSKTEQSVTPEQQKK.L + Oxidation (M)

2007.9894 2006.9821 2006.9579 12.1 174 - 190 2 --- K.AGDELTKLGEEDEQGWCR.G

2390.0403 2389.0330 2389.0685 -14.86 31 - 49 2 --- K.RIDDGHRLCNDLMSCVQER.A + Oxidation (M)

2417.0732 2416.0659 2416.1046 -15.99 32 - 51 2 --- R.IDDGHRLCNDLMSCVQERAK.I + Oxidation (M)

2433.0779 2432.0706 2432.0995 -11.87 32 - 51 2 --- R.IDDGHRLCNDLMSCVQERAK.I + Oxidation (M)

2433.0779 2432.0706 2432.0995 -11.87 32 - 51 2 --- R.IDDGHRLCNDLMSCVQERAK.I + Oxidation (M)

2433.0779 2432.0706 2432.0995 -11.87 32 - 51 2 --- R.IDDGHRLCNDLMSCVQERAK.I + Oxidation (M)

2433.0779 2432.0706 2432.0995 -11.87 32 - 51 2 --- R.IDDGHRLCNDLMSCVQERAK.I + Oxidation (M)

2433.0779 2432.0706 2432.0995 -11.87 32 - 51 2 --- R.IDDGHRLCNDLMSCVQERAK.I + Oxidation (M)
   Protein kinase C and casein kinase substrate in neurons protein 1 OS=Bos taurus GN=PACSIN1 PE=2 SV=1
  2432.0776 2432.0776 2432.0776 2432.0995 -11.87 32 - 51 2 --- R.IDDGHRICNDLMNSCVQERAR.1 + OXIGATION (M)

No match to: 713.4334, 719.2388, 724.3009, 726.2899, 732.2586, 735.3865, 756.4687, 764.4056, 765.3908, 767.3679, 768.3909,

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    3290.4131, 3291.4248, 3312.2756, 3451.3933, 3453.4365
   G3N072
                         Mass: 40114 Score: 17
                                                                                                     Expect: 5.1e+002 Matches: 4
    Uncharacterized protein OS=Bos taurus PE=3 SV=1

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End
        Miss
        Ion
        Peptide

        1222.5994
        1221.5921
        1221.6210
        -23.60
        199
        209
        0
        ----
        R.VNSSMLMLVGR.D + Oxidation (M)

        1786.9000
        1785.8927
        1785.9301
        -20.94
        180
        - 195
        1
        19
        K.KQGAISDPVFSFYLSK.K

   1786.9017 1785.8944 1785.9301 -19.99 181 - 196 1 --- K.QGAISDPVFSFYLSKK.C
1914.9995 1913.9922 1914.0251 -17.17 180 - 196 2 --- K.QGAISDPVFSFYLSKK.C
No match to: 713.4334, 719.2388, 724.3009, 726.2899, 732.2586, 735.3865, 745.4124, 756.4687, 764.4056, 765.3908, 767.3679,
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    1725.8353, 1728.8242, 1734.8152, 1740.8768, 1742.9031, 1746.1659, 1750.8356, 1751.8787, 1753.8948, 1756.8905, 1757.8322, 1763.8188, 1765.7690, 1767.8036, 1768.9027, 1769.4475, 1770.4261, 1774.9091, 1783.8499, 1791.7335, 1808.8868, 1824.8674, 1840.8225, 1844.8907,
    1848.8322, 1850.8301, 1851.8488, 1867.9503, 1880.9277, 1887.9734, 1908.8838, 1919.0038, 1925.9418, 1928.0103, 1931.9463, 1953.9353, 1975.9609, 1992.9642, 1995.9020, 2007.9894, 2011.8845, 2013.8983, 2024.8591, 2025.6234, 2036.5195, 2036.9486, 2042.0640, 2047.0167, 2047.9691, 2051.9792, 2052.9924, 2058.9963, 2060.0469, 2064.9900, 2068.8982, 2070.8835, 2074.8914, 2083.9907, 2084.8987, 2086.8828,
    2092.8821, 2095.9941, 2098.9976, 2100.9160, 2102.8872, 2106.9011, 2108.8835, 2109.9175, 2114.9180, 2116.9160, 2118.8835, 2119.8833, 2125.0176, 2132.8694, 2136.9180, 2170.1467, 2211.1045, 2225.1191, 2273.0496, 2277.0137, 2307.9941, 2322.9980, 2341.0366, 2343.0271,
    2352.0571, 2355.0459, 2359.0532, 2366.0813, 2368.0544, 2369.0710, 2376.0264, 2382.0349, 2383.6099, 2383.9600, 2390.0403, 2396.0342, 2398.0576, 2400.0652, 2406.0737, 2411.0076, 2414.0813, 2416.0752, 2417.0732, 2420.0718, 2422.0408, 2423.0466, 2428.0898, 2431.0845, 2433.0779, 2436.0508, 2438.0457, 2439.0261, 2442.0618, 2449.0347, 2452.0632, 2460.0254, 2461.9956, 2463.9858, 2510.1277,
    2528.1580, 2542.1509, 2545.1558, 2547.1531, 2552.1038, 2565.1543, 2585.1111, 2601.0889, 2705.2192, 2717.0693, 3129.3176, 3208.1736, 3223.2710, 3290.4131, 3291.4248, 3312.2756, 3451.3933, 3453.4365
                                                                   Score: 17
                                                                                                       Expect: 5.2e+002 Matches: 8
Q0II81 Mass: 14868
    Regulator of G-protein signaling 13 OS=Bos taurus GN=RGS13 PE=2 SV=1
  Regulator of G-protein signaling 13 OS=Bos taurus GN=RGS13 PE=2 SV=1

Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide

1155.6113 1154.6005 1154.6005 3.04 109 - 117 1 1 --- K.SEMYQKLLK.T + Oxidation (M)

1173.6259 1172.6186 1172.5900 24.5 106 - 114 1 --- K.FLKSEMYQK.L

1179.6063 1178.5990 1178.5792 16.8 39 - 48 1 --- K.TASQWSRTSR.A

1215.6627 1214.6554 1214.6619 -5.30 115 - 125 1 --- K.LLKTIQANNNS.-

1307.6858 1306.6785 1306.6742 3.33 38 - 48 2 --- K.TLKTIQANNSS.A

1728.8242 1727.8169 1727.7759 23.7 93 - 105 1 --- K.TLKTIQANNSSTSR.A

1728.8242 1727.8169 1727.7759 23.7 93 - 105 1 --- K.TLKTIQANNSSTSR.A

1728.8342 1727.8169 1727.7759 23.7 93 - 105 1 --- K.TLKTIQANNSSTSR.A

1728.8342 1727.8169 2416.0857 -6.96 20 - 38 2 --- K.TEHSDENIKFWMACETYKK.T

2433.0779 2432.0706 2432.0777 -2.89 20 - 38 2 --- K.TEHSDENIKFWMACETYKK.T + Oxidation (M)
    No match to: 713.4334, 719.2388, 724.3009, 726.2899, 732.2586, 735.3865, 745.4124, 756.4687, 764.4056, 765.3908, 767.3679,
   No match to: 713.4334, 719.2388, 724.3009, 726.2899, 732.2586, 735.3865, 745.4124, 756.4687, 764.4056, 765.3908, 767.3679, 768.3909, 772.3955, 795.4186, 802.4548, 803.4370, 805.4229, 806.4631, 807.3893, 809.4480, 811.4104, 812.3985, 816.4408, 820.4244, 822.3905, 823.3846, 824.3756, 828.3904, 834.4043, 836.4589, 837.3853, 839.3696, 840.3839, 842.5085, 845.4100, 845.4123, 851.3975, 852.4056, 856.4893, 866.3914, 867.3724, 870.5402, 871.4945, 878.4625, 880.4403, 886.3815, 888.4233, 890.4479, 893.9562, 894.4579, 897.0289, 897.4412, 902.4597, 910.4410, 912.4497, 913.5118, 916.4905, 918.5391, 925.4747, 928.5064, 930.5048, 933.4619, 935.4698, 939.4758, 947.4628, 949.4551, 951.4703, 954.4674, 957.4657, 963.4676, 965.4761, 967.4568, 969.4571, 972.4793, 972.4800, 975.4650, 977.4630, 978.4976, 981.4565, 983.4664, 985.4842, 991.4688, 993.5331, 997.4298, 999.4453, 1001.4488, 1003.4687, 1007.5668, 1018.5202, 1018.5212, 1023.4777, 1026.4922, 1027.4972, 1030.5151, 1031.3850, 1033.5419, 1035.5352, 1036.5372, 1039.5402, 1042.5383, 1048.5202, 1018.5202, 1018.5202, 1026.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5402, 1066.5
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    1328.6809, 1329.6672, 1331.6763, 1332.6743, 1334.6592, 1335.6937, 1336.6715, 1337.6724, 1338.6471, 1342.6680, 1345.6760, 1346.6880, 1349.6991, 1354.6907, 1355.7155, 1357.7034, 1360.6882, 1361.6670, 1365.6913, 1368.6920, 1374.6412, 1375.6798, 1376.6804, 1377.6794,
    1382.6647, 1387.6444, 1410.7505, 1411.7208, 1421.7177, 1427.7872, 1431.7961, 1432.7133, 1434.7288, 1446.7256, 1450.7079, 1473.8054, 1475.7748, 1477.7524, 1478.7439, 1485.7720, 1486.7664, 1493.7539, 1494.7423, 1505.8649, 1523.7841, 1524.7848, 1537.8021, 1549.7388,
    1655.8816, 1558.8474, 1576.7987, 1579.7926, 1584.7897, 1588.8136, 1590.3611, 1604.8417, 1605.8098, 1606.8384, 1615.8826, 1616.8605, 1622.8137, 1628.8260, 1629.8358, 1630.8466, 1633.9790, 1635.7943, 1644.8046, 1647.8785, 1649.8463, 1651.8245, 1659.8241, 1662.7909, 1668.7810, 1679.9736, 1681.8214, 1683.8121, 1684.8204, 1706.8616, 1707.7838, 1716.8571, 1725.8353, 1734.8152, 1740.8768, 1742.9031,
    1746.1659, 1750.8356, 1751.8787, 1753.8948, 1756.8905, 1757.8322, 1763.8188, 1765.7690, 1767.8036, 1768.9027, 1769.4475, 1770.4261, 1774.9091, 1783.8499, 1786.9000, 1786.9017, 1791.7335, 1808.8868, 1824.8674, 1840.8225, 1844.8907, 1848.8322, 1850.8301, 1851.8488,
    1867.9503, 1880.9277, 1887.9734, 1908.8838, 1914.9995, 1919.0038, 1925.9418, 1928.0103, 1931.9463, 1953.9353, 1975.9609, 1992.9642, 1995.9020, 2007.9894, 2011.8845, 2013.8983, 2024.8591, 2025.6234, 2036.5195, 2036.9486, 2042.0640, 2047.0167, 2047.9691, 2051.9792,
    2052.9924, 2058.9963, 2060.0469, 2064.9900, 2068.8982, 2070.8835, 2074.8914, 2083.9907, 2084.8987, 2086.8828, 2092.8821, 2095.9941, 2098.9976, 2100.9160, 2102.8872, 2106.9011, 2108.8835, 2109.9175, 2114.9180, 2116.9160, 2118.8835, 2119.8833, 2125.0176, 2132.8694, 2136.9180, 2170.1467, 2211.1045, 2225.1191, 2273.0496, 2277.0137, 2307.9941, 2322.9980, 2341.0366, 2343.0271, 2352.0571, 2355.0459,
    2359.0532, 2366.0813, 2368.0544, 2369.0710, 2376.0264, 2382.0349, 2383.6099, 2383.9600, 2390.0403, 2396.0342, 2398.0576, 2400.0652, 2406.0737, 2411.0076, 2414.0813, 2416.0752, 2420.0718, 2422.0408, 2423.0466, 2428.0898, 2430.0828, 2431.0845, 2436.0508, 2438.0457,
    2439.0261, 2442.0618, 2449.0347, 2452.0632, 2460.0254, 2461.9956, 2463.9858, 2510.1277, 2528.1580, 2542.1509, 2545.1558, 2547.1531, 2552.1038, 2565.1543, 2585.1111, 2601.0889, 2705.2192, 2717.0693, 3129.3176, 3208.1736, 3223.2710, 3290.4131, 3291.4248, 3312.2756,
    3451.3933, 3453.4365
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Mass: 37724
                                                                                                                                  Expect: 5.4e+002 Matches: 14
 P35246
                                                                                    Score: 16
  Pulmonary surfactant-associated protein D OS=Bos taurus GN=SFTPD PE=1 SV=2
    Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide
                                                                                                                                       18 - 24 0 ---
57 - 63 1 ---
                                        734.3792
                                                                             734.3633
                                                                                                                                                                                                                 R.SLGAEMK.I
    772.3955
                                        771 3882
                                                                            771.3875 0.96
                                                                                                                                                                                                               R.EGPRGEK.G
772.3955 771.3882 771.3875 0.96 57 - 63 1 --- R.EGPRGEK.G
965.4761 964.4689 964.4726 -3.92 163 - 173 0 --- R.GAPGEPGAPGR.A
967.4568 966.4495 966.4519 -2.49 64 - 74 0 --- K.GDPGSPGPAGR.A
1033.5419 1032.5346 1032.5538 -18.62 244 - 252 1 --- K.KAMLFPNGR.S
1114.5396 1113.5323 1113.5275 4.31 51 - 60 2 --- R.DGRDGREGPR.G
1215.6627 1214.6554 1214.6255 24.6 211 - 222 0 --- K.GESGLAEVNALR.Q
1226.5948 1225.5875 1225.5761 9.29 123 - 135 0 --- K.QESMGPPGTPGFK.G + Oxidation (M)
1354.6907 1353.6834 1353.6962 -9.44 18 - 29 1 --- R.SLGAEMKIYSQK.T
1421.7177 1420.7104 1420.7133 -2.00 245 - 257 1 --- K.AMLFPNGRSVGEK.I + Oxidation (M)
1493.7539 1492.7466 1492.7746 -18.77 193 - 207 2 --- R.GPPGLKGDRGTPGER.G
1588.8136 1587.8063 1587.8118 -3.42 174 - 192 0 --- R.AGAPGPAGAIGPQGPSGAR.G
2052.9924 2051.9851 2051.9857 14.3 354 - 369 2 --- K.WINDKVCGEQRLVICEF.-
2277.0137 2276.0064 2276.0058 0.28 30 - 50 0 --- K.TMANACTLVMCSPPEDGLPGR.D

No match to: 713.4334, 719.2388, 724.3309, 726.2899, 732.2586, 745.4124, 756.4687, 764.4056, 765
  No match to: 713.4334, 719.2388, 724.3009, 726.2899, 732.2586, 745.4124, 756.4687, 764.4056, 765.3908, 767.3679, 768.3909, 795.4186, 802.4548, 803.4370, 805.4229, 806.4631, 807.3893, 809.4480, 811.4104, 812.3985, 816.4408, 820.4244, 822.3905, 823.3846, 824.3756, 828.3904, 834.4043, 836.4589, 837.3853, 839.3696, 840.3839, 842.5085, 845.4100, 845.4123, 851.3975, 852.4056, 856.4893,
  824.3756, 824.3904, 834.4043, 836.4358, 837.3833, 839.3896, 840.3893, 842.3085, 849.4100, 843.4123, 831.3973, 832.4056, 836.4893, 848.4833, 890.4479, 893.9562, 894.4579, 897.0289, 897.4412, 902.4597, 910.4410, 912.4497, 913.5118, 916.4905, 918.5391, 925.4747, 928.5064, 930.5048, 933.4619, 935.4698, 939.4758, 947.4628, 945.91, 951.4703, 954.4674, 957.4657, 963.4676, 969.4571, 972.4793, 972.4800, 975.4650, 977.4630, 978.4976, 981.4565, 983.4664, 985.4842, 991.4688, 993.5331, 997.4298, 999.4453, 1001.4488, 1003.4687, 1007.5668, 1018.5200, 1018.5212, 1023.4777, 1026.4922, 1027.4972, 1030.5151, 1031.3850, 1035.5352, 1036.5372, 1039.5402, 1042.5383, 1045.5654, 1056.5488, 1060.5400, 1060.5442, 1055.5425, 1030.5402, 1042.5383, 1045.5654, 1056.5488, 1060.5400, 1060.5442, 1056.5425, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.5402, 1060.540
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  185.6317, 1187.6431, 1193.6096, 1195.6060, 1196.6102, 1206.6770, 1209.1387, 1209.5848, 1210.1014, 1216.6494, 1222.5994, 1229.6246, 1231.6174, 1234.6317, 1235.5846, 1240.6298, 1244.6324, 1248.6119, 1250.6144, 1268.6498, 1271.6696, 1273.6653, 1275.6644, 1291.6425, 1295.7233, 1300.6062, 1301.6205, 1307.6858, 1315.6570, 1317.6521, 1319.6852, 1323.6517, 1325.6637, 1328.6809, 1329.6672, 1331.6763,
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    1360.6882, 1361.6670, 1365.6913, 1368.6920, 1374.6412, 1375.6798, 1376.6804, 1377.6794, 1382.6647, 1387.6444, 1410.7505, 1411.7208,
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  1648.875, 1649.8463, 1651.8245, 1659.8241, 1662.7909, 1668.7810, 1679.9736, 1681.8214, 1683.8121, 1684.8204, 1706.8616, 1707.7838, 1716.8571, 1725.8353, 1728.8242, 1734.8152, 1740.8768, 1742.9031, 1746.1659, 1750.8356, 1751.8787, 1753.8948, 1756.8905, 1757.8322, 1763.8188, 1765.7690, 1767.8036, 1768.9027, 1769.4475, 1770.4261, 1774.9091, 1783.8499, 1786.9000, 1786.9017, 1791.7335, 1808.8868, 1824.8674, 1840.8225, 1844.8907, 1848.8322, 1850.8301, 1851.8488, 1867.9503, 1880.9277, 1887.9734, 1908.8838, 1914.9995, 1919.0038, 1925.9418, 1928.0103, 1931.9463, 1953.9353, 1975.9609, 1992.9642, 1995.9020, 2007.9894, 2011.8845, 2013.8983, 2024.8591, 2025.6234, 2036.9486, 2042.0640, 2047.0167, 2047.9691, 2051.9792, 2058.9963, 2060.0469, 2064.9900, 2068.8982, 2070.8835, 2074.8914, 2036.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2037.8303, 2
  2083.9907, 2084.8987, 2086.8828, 2092.8821, 2095.9941, 2098.9976, 2100.9160, 2102.8872, 2106.9011, 2108.8835, 2109.9175, 2114.9180, 2116.9160, 2118.8835, 2119.8833, 2125.0176, 2132.8694, 2136.9180, 2170.1467, 2211.1045, 2225.1191, 2273.0496, 2307.9941, 2322.9980,
  2341.0366, 2343.0271, 2352.0571, 2355.0459, 2359.0532, 2366.0813, 2368.0544, 2369.0710, 2376.0264, 2382.0349, 2383.6099, 2383.9600, 2390.0403, 2396.0342, 2398.0576, 2400.0652, 2406.0737, 2411.0076, 2414.0813, 2416.0752, 2417.0732, 2420.0718, 2422.0408, 2428.0898, 2430.0828, 2431.0845, 2433.0779, 2436.0508, 2438.0457, 2439.0261, 2442.0618, 2449.0347, 2452.0632, 2460.0254, 2461.9956,
  2463.9858, 2510.1277, 2528.1580, 2542.1509, 2545.1558, 2547.1531, 2552.1038, 2565.1543, 2585.1111, 2601.0889, 2705.2192, 2717.0693, 3129.3176, 3208.1736, 3223.2710, 3290.4131, 3291.4248, 3312.2756, 3451.3933, 3453.4365
                                                                                                                                  Expect: 5.4e+002 Matches: 8
 F1MWQ0 Mass: 17662 Score: 16
  Complexin-3 OS=Bos taurus GN=CPLX3 PE=4 SV=1

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss
        Ions
        Peptide

        745.4124
        744.4051
        744.4017
        4.55
        50
        -
        55
        0
        ---
        K.QLVEE

                                                                                                                                                                                                              K.QLVEEK.M
744.4051 744.4051 744.4051 744.4051 744.4051 744.4051 744.4051 744.4051 744.4051 744.4051 744.4051 744.4051 744.4051 744.4051 744.4051 744.4051 744.4051 744.4051 744.4051 744.4051 744.4051 744.4051 744.4051 744.4051 744.4051 744.4051 744.4051 744.4051 744.4051 744.4051 744.4051 744.4051 744.4051 745.4051 744.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745.4051 745
  No match to: 713.4334, 719.2388, 724.3009, 726.2899, 732.2586, 735.3865, 756.4687, 764.4056, 765.3908, 767.3679, 768.3909, 772.3955, 795.4186, 802.4548, 803.4370, 805.4229, 806.4631, 807.3893, 809.4480, 811.4104, 812.3985, 816.4408, 820.4244, 822.3905, 823.3846, 824.3756, 828.3904, 834.4043, 836.4589, 837.3853, 839.3696, 840.3839, 842.5085, 845.4100, 845.4123, 851.3975, 852.4056,
  856.4893, 866.3914, 867.3724, 870.5402, 871.4945, 878.4625, 880.4403, 886.3815, 888.4233, 890.4479, 893.9562, 894.4579, 897.0289, 897.4412, 902.4597, 910.4410, 912.4497, 913.5118, 916.4905, 918.5391, 925.4747, 928.5064, 930.5048, 933.4619, 935.4698, 939.4758, 947.4628, 949.4591, 951.4703, 954.4674, 957.4657, 963.4676, 965.4761, 967.4568, 969.4571, 972.4793, 972.4800, 975.4650, 977.4630,
   978.4976, 981.4565, 983.4664, 985.4842, 991.4688, 997.4298, 999.4453, 1001.4488, 1003.4687, 1007.5668, 1018.5200, 1018.5212,
  1026.4922, 1027.4972, 1030.5151, 1031.3850, 1033.5419, 1035.5352, 1036.5372, 1039.5402, 1042.5383, 1045.5654, 1056.5488, 1060.5400, 1060.5442, 1065.5425, 1086.5115, 1106.5372, 1111.5582, 1113.5546, 1114.5396, 1115.5605, 1118.5529, 1122.5363, 1128.5775, 1129.6014, 1130.5935, 1140.5485, 1144.5709, 1155.6113, 1156.5720, 1157.5952, 1158.6154, 1159.6273, 1165.5817, 1172.6301, 1173.6259, 1179.6063,
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  1323.6517, 1325.6637, 1328.6809, 1329.6672, 1331.6763, 1332.6743, 1334.6592, 1335.6937, 1336.6715, 1337.6724, 1338.6471, 1342.6680, 1345.6760, 1346.6880, 1354.6907, 1355.7155, 1357.7034, 1360.6882, 1361.6670, 1365.6913, 1368.6920, 1374.6412, 1375.6798, 1376.6804,
  1377.6794, 1382.6647, 1387.6444, 1410.7505, 1411.7208, 1421.7177, 1427.7872, 1431.7961, 1432.7133, 1434.7288, 1446.7256, 1450.7079, 1473.8054, 1477.7524, 1478.7439, 1485.7720, 1486.7664, 1493.7539, 1494.7423, 1505.8649, 1523.7841, 1524.7848, 1537.8021, 1549.7388,
    1555.8816, 1558.8474, 1576.7987, 1579.7926, 1584.7897, 1590.3611, 1604.8417, 1605.8098, 1606.8384, 1615.8826, 1616.8605, 1622.8137,
  1628.8260, 1629.8358, 1630.8466, 1633.9790, 1635.7943, 1644.8046, 1647.8785, 1649.8463, 1651.8245, 1659.8241, 1662.7909, 1668.7810, 1679.9736, 1681.8214, 1683.8121, 1684.8204, 1706.8616, 1707.7838, 1716.8571, 1725.8353, 1728.8242, 1734.8152, 1740.8768, 1742.9031,
  1746.1659, 1750.8356, 1751.8787, 1753.8948, 1756.8905, 1757.8322, 1763.8188, 1765.7690, 1767.8036, 1768.9027, 1769.4475, 1770.4261, 1774.9091, 1783.8499, 1786.9000, 1786.9017, 1791.7335, 1808.8868, 1824.8674, 1840.8225, 1844.8907, 1848.8322, 1850.8301, 1851.8488,
  1867.9503, 1880.9277, 1887.9734, 1908.8838, 1914.9995, 1919.0038, 1925.9418, 1928.0103, 1931.9463, 1953.9353, 1975.9609, 1992.9642, 2011.8845, 2013.8983, 2024.8591, 2025.6234, 2036.5195, 2036.9486, 2042.0640, 2047.0167, 2047.9691, 2051.9792, 2052.9924, 2058.9963,
  2060.0469, 2064.9900, 2068.8982, 2070.8835, 2074.8914, 2083.9907, 2084.8987, 2086.8828, 2092.8821, 2095.9941, 2098.9976, 2100.9160,
  2102.8872, 2106.9011, 2108.8835, 2109.9175, 2114.9180, 2116.9160, 2118.8835, 2119.8833, 2125.0176, 2132.8694, 2136.9180, 2170.1467, 2211.1045, 2225.1191, 2273.0496, 2277.0137, 2307.9941, 2322.9980, 2341.0366, 2343.0271, 2352.0571, 2355.0459, 2359.0532, 2366.0813,
  2368.0544, 2369.0710, 2376.0264, 2382.0349, 2383.6099, 2383.9600, 2390.0403, 2396.0342, 2398.0576, 2400.0652, 2406.0737, 2411.0076, 2414.0813, 2416.0752, 2417.0732, 2420.0718, 2422.0408, 2423.0466, 2428.0898, 2430.0828, 2431.0845, 2433.0779, 2436.0508, 2438.0457,
  2439.0261, 2442.0618, 2449.0347, 2452.0632, 2460.0254, 2461.9956, 2463.9858, 2510.1277, 2528.1580, 2542.1509, 2545.1558, 2547.1531, 2552.1038, 2565.1543, 2585.1111, 2601.0889, 2705.2192, 2717.0693, 3129.3176, 3208.1736, 3223.2710, 3290.4131, 3291.4248, 3312.2756,
  3451.3933, 3453.4365
 Q0VC09 Mass: 44563 Score: 16
                                                                                                                         Expect: 5.4e+002 Matches: 15
```

```
RIB43A-like with coiled-coils protein 1 OS=Bos taurus GN=RIBC1 PE=2 SV=1
     Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide
                                   964.4689
                                                                 964.4841
                                                                                             -15.75 269 - 275 0 ---
 1045.5654 1044.5581 1044.5424 15.0 83 - 90 2 --- K.EQAERTRR.L

1128.5775 1127.5702 1127.56083 1.69 167 - 175 0 --- R.QLQEQQQAR.V

1179.6063 1178.5990 1178.5787 17.2 208 - 219 0 --- R.IAMMAATASANK.A

1195.6060 1194.5987 1194.5736 21.0 208 - 219 0 --- R.IAMMAATASANK.A + Oxidation (M)

1275.6644 1274.6571 1274.6401 13.4 276 - 286 1 --- K.GMTPEQRATIR.K + Oxidation (M)

1323.6517 1322.6444 1322.6327 8.86 225 - 235 0 --- K.GMTPEQRATIR.K + Oxidation (M)

1333.6519 1333.6519 1333.6519 1333.6846 -24.49 190 - 201 1 --- R.LAMDMRAAQLAK.L + Oxidation (M)

1375.6798 1374.6725 1374.6925 -14.53 196 - 207 1 --- R.AAQLAKLEESCR.I

1767.8036 1766.7963 1766.7835 7.27 109 - 121 0 --- R.CELDFWNSNQLWR.E

1953.9353 1952.9280 1952.9117 8.34 202 - 219 1 --- K.EESCRIAMMAATASANK.A

2058.9963 2057.9890 2058.0164 -13.30 35 - 52 1 --- K.EESCRIAMMAATASANK.A

2058.9963 2057.9890 2058.0164 -13.30 35 - 52 1 --- K.EESCRIAMMAATASANK.A

2058.9964 2094.9868 2095.0368 -23.83 73 - 89 2 --- R.YDLVAQMLEKEQAERTR.R + Oxidation (M)

2125.0176 2124.0103 2124.0125 -1.04 190 - 207 2 --- R.LAMDMRAAQLAKLEESCR.I + 2 Oxidation (M)

2442.0618 2441.0545 2441.0443 4.18 176 - 195 1 --- R.VDENCADMLNDQLRLAMDMR.A + 2 Oxidation (M)

No match to: 713.4334, 719.2388, 724.3009, 726.2899, 732.2586, 735.3865, 745.4124, 756.4687, 764.4056, 764.4056, 764.4056, 764.4056, 764.4056, 764.4056, 764.4056, 764.4056, 764.4056, 764.4056, 764.4056, 764.4056, 764.4056, 764.4056, 764.4056, 764.4056, 764.4056, 764.4056, 764.4056, 764.4056, 764.4056, 764.4056, 764.4056, 764.4056, 764.4056, 764.4056, 764.4056, 764.4056, 764.4056, 764.4056, 764.4056, 764.4056, 764.4056, 764.4056, 764.4056, 764.4056, 764.4056, 764.4056, 764.4056, 764.4056, 764.4056, 764.4056, 764.4056, 764.4056, 766.4067, 764.4056, 764.4056, 764.4056, 764.4056, 764.4056, 764.4056, 764.4056, 764.4056, 764.4056, 764.4056, 764.4056, 764.4056, 764.4056, 764.4056, 764.4056, 764.4056, 764.4056, 764.4056, 764.4056, 764.4056, 764.4056, 764.4056, 764.4056, 764.4056, 764.4056, 764.4056, 764.4056, 764.4056, 764.4056, 764.4056, 764.4056, 76
  1045.5654 1044.5581 1044.5424 15.0
                                                                                                                    83 - 90 2 ---
                                                                                                                                                                              K.EOAERTRR.L
  2441.0343 2441.0343 4.16 176 - 193 1 --- R.VDBCADMINDURLAMDRICA + 2 OKIGATION (N)

No match to: 713.4334, 719.2388, 724.3009, 726.2899, 732.2586, 735.3865, 745.4124, 756.4687, 764.4056, 765.3908, 767.3679,

768.3909, 772.3955, 795.4186, 802.4548, 803.4370, 805.4229, 806.4631, 807.3893, 809.4480, 811.4104, 812.3985, 816.4408, 820.4244,

822.3905, 823.3846, 824.3756, 828.3904, 834.4043, 836.4589, 837.3853, 839.3696, 840.3839, 842.5085, 845.4100, 845.4123, 851.3975,

852.4056, 856.4893, 866.3914, 867.3724, 870.5402, 871.4945, 878.4625, 880.4403, 886.3815, 888.4233, 890.4479, 939.9562, 894.4579,

897.0289, 897.4412, 902.4597, 910.4410, 912.4497, 913.5118, 916.4905, 918.5391, 925.4747, 928.5064, 930.5048, 933.4619, 935.4698,

939.4758, 947.4628, 949.4591, 951.4703, 954.4674, 957.4657, 963.4676, 967.4568, 969.4571, 972.4793, 972.4800, 975.4650, 977.4630,
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    1060.5400, 1060.5442, 1065.5425, 1086.5115, 1106.5372, 1111.5582, 1113.5546, 1114.5396, 1115.5605, 1118.5529, 1122.5363, 1129.6014, 1130.5935, 1140.5485, 1144.5709, 1155.6113, 1156.5720, 1157.5952, 1158.6154, 1159.6273, 1165.5817, 1172.6301, 1173.6259, 1180.6165,
    1182.6090, 1183.6123, 1185.6317, 1187.6431, 1193.6096, 1196.6102, 1206.6770, 1209.1387, 1209.5848, 1210.1014, 1215.6627, 1216.6494, 1222.5994, 1226.5948, 1229.6246, 1231.6174, 1234.6317, 1235.5846, 1240.6298, 1244.6324, 1248.6119, 1250.6144, 1268.6498, 1271.6696,
    1273.6653, 1291.6425, 1295.7233, 1300.6062, 1301.6205, 1307.6858, 1315.6570, 1317.6521, 1319.6852, 1325.6637, 1328.6809, 1329.6672,
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    1584.7897, 1588.8136, 1590.3611, 1604.8417, 1605.8098, 1606.8384, 1615.8826, 1616.8605, 1622.8137, 1628.8260, 1629.8358, 1630.8466, 1633.9790, 1635.7943, 1644.8046, 1647.8785, 1649.8463, 1651.8245, 1659.8241, 1662.7909, 1668.7810, 1679.9736, 1681.8214, 1683.8121,
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    1753.8948, 1756.8905, 1757.8322, 1763.8188, 1765.7690, 1768.9027, 1769.4475, 1770.4261, 1774.9091, 1783.8499, 1786.9000, 1786.9017, 1791.7335, 1808.8868, 1824.8674, 1840.8225, 1844.8907, 1848.8322, 1850.8301, 1851.8488, 1867.9503, 1880.9277, 1887.9734, 1908.8838,
    1914.9995, 1919.0038, 1925.9418, 1928.0103, 1931.9463, 1975.9609, 1992.9642, 1995.9020, 2007.9894, 2011.8845, 2013.8983, 2024.8591, 2025.6234, 2036.5195, 2036.9486, 2042.0640, 2047.0167, 2047.9691, 2051.9792, 2052.9924, 2060.0469, 2064.9900, 2068.8982, 2070.8835,
   2074.8914, 2083.9907, 2084.8987, 2086.8828, 2092.8821, 2098.9976, 2100.9160, 2102.8872, 2106.9011, 2108.8835, 2109.9175, 2114.9180, 2116.9160, 2118.8835, 2119.8833, 2132.8694, 2136.9180, 2170.1467, 2211.1045, 2225.1191, 2273.0496, 2277.0137, 2307.9941, 2322.9980,
    2341.0366, 2343.0271, 2352.0571, 2355.0459, 2359.0532, 2366.0813, 2368.0544, 2369.0710, 2376.0264, 2382.0349, 2383.6099, 2383.9600,
   2390.0403, 2396.0342, 2398.0576, 2400.0652, 2406.0737, 2411.0076, 2414.0813, 2416.0752, 2417.0732, 2420.0718, 2422.0408, 2423.0466, 2428.0898, 2430.0828, 2431.0845, 2433.0779, 2436.0508, 2438.0457, 2439.0261, 2449.0347, 2452.0632, 2460.0254, 2461.9956, 2463.9858,
    2510.1277, 2528.1580, 2542.1509, 2545.1558, 2547.1531, 2552.1038, 2565.1543, 2585.1111, 2601.0889, 2705.2192, 2717.0693, 3129.3176
    3208.1736, 3223.2710, 3290.4131, 3291.4248, 3312.2756, 3451.3933, 3453.4365
                            Mass: 154749 Score: 16
                                                                                                              Expect: 5.4e+002 Matches: 40
   Uncharacterized protein OS=Bos taurus GN=CENPJ PE=4 SV=1
                                                                Mr(calc) ppm Start End Miss Ions Peptide 734.3963 -23.27 996 - 1001 1 --- R.TFPDK.
     Observed
                                  Mr (expt)
                                                                                                                996 - 1001 1 ---
388 - 394 1 ---
                                   794.4114
                                                                 794.4286 -21.74

    794.4286
    -21.74
    388
    -394
    1
    ---
    R.FTMARSK.F

    802.4184
    14.1
    932
    -939
    0
    ---
    K.AENASLAK.L

    815.4250
    10.5
    1288
    -1294
    1
    ---
    R.VQRDGNK.I

    819.4199
    -3.36
    784
    -790
    1
    ---
    K.LSDSSRR.H

    909.4127
    23.2
    483
    -489
    1
    ---
    K.KCDGQFR.E

    915.4886
    -5.90
    885
    -892
    2
    ---
    K.SKSKSHSR.S

    946.4760
    -21.57
    80
    -87
    0
    ---
    K.LEPNSPYK.L

    980.4419
    7.47
    1075
    - 1083
    0
    ---
    R.MGQCVTASK.K

                                  815.4335
                                  909.4338
     916.4905
                                  915.4832
     947.4628
                                  946.4556
     981.4565
                                  980.4493
  997.4298 996.4225 996.4256 -3.15 838 - 845 0 --- K.SEMCVLDK.T + Oxidation (M) 1033.5419 1032.5346 1032.5273 7.05 1050 - 1057 1 --- R.EEIKVMER.F
 1032.5346 1032.5346 1032.5273 7.05 1050 - 1057 1 --- R.EEIKVMEK.F.
1115.5605 1114.5532 1114.5692 -14.36 291 - 300 0 --- R.GEGILPCLEK.M
1129.6014 1128.5941 1128.6040 -8.73 1304 - 1312 1 --- R.ELHTAQFKR.R
1172.6301 1171.6228 1171.6197 2.70 351 - 359 1 --- R.LEELERQQK.Q
1187.6431 1186.6358 1186.6598 -20.17 135 - 144 1 --- K.EVPYKDPLVK.K
1216.6494 1215.6421 1215.6598 -14.53 920 - 929 0 --- K.IELETEIEK.F
1231.6174 1230.6101 1230.6356 -20.73 563 - 571 2 --- K.KLENWEREK.E
1231.6174 1230.6101 1230.6356 -20.73 563 - 571 2 --- K.KLENWEREK.E
1235.5846 1234.5773 1234.5863 -7.31 1342 -1352 1 --- K.DKDGNVLMDTK.L
1319.6852 1318.6779 1318.7106 -24.75 381 - 392 2 --- K.RGGGLARFTNAK.S
1323.6517 1322.6444 1322.6574 -9.81 838 - 848 1 --- K.SEMCVLDKTIK.R
1331.6763 1330.6690 1330.6841 -11.32 757 - 767 2 --- K.RRDVDLDLSDK.D
1336.6715 1335.6642 1335.6969 -24.44 1050 - 1059 2 --- R.EEIKVMERFR.L
1338.6471 1337.6398 1337.6649 -18.74 969 - 978 2 --- R.IEEFKKEEMR.K
1354.6907 1353.6834 1353.6598 17.4 969 - 978 2 --- R.IEEFKKEEMR.K
1354.6907 1353.6834 1353.6598 17.4 969 - 978 2 --- R.IEEFKKEEMR.K
13432.7133 1431.7060 1431.6954 7.44 1129 - 1142 1 --- R.DEGSEKGGTASPR.E
1434.7288 1433.7215 1433.7514 -20.84 953 - 964 2 --- R.KEIADFEQQKAK.E
1473.8054 1472.7981 1472.7973 0.54 918 - 929 1 --- R.EKILELETEIEK.F
1486.7664 1485.7591 1485.7899 -20.74 1011 - 1022 2 --- K.RQVSDLQEDLKR.K
1584.7897 1583.7824 1583.7566 16.3 768 - 781 0 --- K.DYSSDDSLIIESLK.N
1659.8241 1658.8168 1658.7828 20.5 1143 - 1156 0 --- R.ELPEPVNFPPDPVK.E
1887.9734 1886.9661 1886.9711 -2.63 1288 - 1303 2 --- R.DSVFSPGASWAPSCEVR
                                                                                                                                                                                 R.IEEFKKEEMR.K + Oxidation (M)
                                                                                                                                                                                 R.DSVFSPGASWAPSCEVR.R
  1887.9734 1886.9661 1886.9711 -2.63 1288 - 1303 2 ---
                                                                                                                                                                                 R.VORDGNKIIEFNNGOR.E
  1931.9463 1930.9390 1930.8955
                                                                                              22.5 232 - 247
                                                                                                                                                                                 K.KHPSNILSSEQNDFCR.T
  2051.9792 2050.9719 2050.9744 -1.21 866 - 884 0 ---
                                                                                                                                                                                  R.GPSPPPTSGLMMEFFPSLK.S + 2 Oxidation (M)
  2058.9963 2057.9890 2058.0242 -17.11 1111 - 1128 2 ---
2170.1467 2169.1394 2169.1641 -11.37 1004 - 1021 2 ---
                                                                                                                                                                                  K.NYLPTQGNPSQRSKSEPR.D
                                                                                                                                                                                 R.EEIOVLKROVSDLOEDLK.R
```

```
2542.1509 2541.1436 2541.1626 -7.48 629 - 652 1 --- K.TATLGSVSQHNQNEDPGRAQCGSK.A
2565.1543 2564.1470 2564.2064 -23.15 279 - 300 2 --- K.NDLKEENDNYSKGEGILPCLEK.M

No match to: 713.4334, 719.2388, 724.3009, 726.2899, 732.2586, 745.4124, 756.4687, 764.4056, 765.3908, 767.3679, 768.3909, 772.3955, 802.4548, 805.4229, 806.4631, 807.3893, 809.4480, 811.4104, 812.3985, 822.3905, 823.3846, 824.3756, 828.3904, 834.4043, 836.4589, 837.3853, 839.3696, 840.3839, 842.5085, 845.4100, 845.4123, 851.3975, 852.4056, 856.4893, 866.3914, 867.3724, 870.5402, 871.4048, 872.4676, 872.4676, 872.4676, 872.4676, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 872.4677, 8
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   967.4568, 969.4571, 972.4793, 972.4800, 975.4650, 977.4630, 978.4976, 983.4664, 985.4842, 991.4688, 993.5331, 999.4453, 1001.4488, 1003.4687, 1007.5668, 1018.5200, 1018.5212, 1023.4777, 1026.4922, 1027.4972, 1030.5151, 1031.3850, 1035.5352, 1036.5372, 1039.5402, 1042.5383, 1045.5654, 1056.5488, 1060.5400, 1060.5442, 1065.5425, 1086.5115, 1106.5372, 1111.5582, 1113.5546, 1114.5396, 1118.5529,
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   1683.8121, 1684.8204, 1706.8616, 1707.7838, 1716.8571, 1725.8353, 1728.8242, 1734.8152, 1740.8768, 1742.9031, 1746.1659, 1750.8356, 1751.8787, 1753.8948, 1756.8905, 1757.8322, 1763.8188, 1765.7690, 1767.8036, 1768.9027, 1769.4475, 1770.4261, 1774.9091, 1783.8499,
   1786.9000, 1786.9017, 1791.7335, 1808.8868, 1824.8674, 1840.8225, 1844.8907, 1848.8322, 1850.8301, 1867.9503, 1880.9277, 1908.8838, 1914.9995, 1919.0038, 1925.9418, 1928.0103, 1953.9353, 1975.9609, 1992.9642, 1995.9020, 2007.9894, 2011.8845, 2013.8983, 2024.8591, 2025.6234, 2036.5195, 2036.9486, 2042.0640, 2047.0167, 2047.9691, 2052.9924, 2060.0469, 2064.9900, 2068.8982, 2070.8835, 2074.8914,
  2083.9907, 2084.8987, 2086.8828, 2092.8821, 2095.9941, 2098.9976, 2100.9160, 2102.8872, 2106.9011, 2108.8835, 2109.9175, 2114.9180, 2116.9160, 2118.8835, 2119.8833, 2125.0176, 2132.8694, 2136.9180, 2211.1045, 2225.1191, 2273.0496, 2277.0137, 2307.9941, 2322.9980,
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  2428.0898, 2430.0828, 2431.0845, 2433.0779, 2436.0508, 2438.0457, 2439.0261, 2442.0618, 2449.0347, 2452.0632, 2460.0254, 2461.9956, 2463.9858, 2510.1277, 2528.1580, 2545.1558, 2547.1531, 2552.1038, 2585.1111, 2601.0889, 2705.2192, 2717.0693, 3129.3176, 3208.1736,
   3223.2710, 3290.4131, 3291.4248, 3312.2756, 3451.3933, 3453.4365
                                                                                                             Expect: 5.5e+002 Matches: 21
  <u>P31976</u> Mass: 68832 Score: 16
   Ezrin OS=Bos taurus GN=EZR PE=1 SV=2

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss
        Ions
        Peptide

        726.2899
        725.2836
        725.2836
        -1.44
        338 - 342
        0
        ---
        K.EQMMR.E + 2 Oxidation (M)

        803.4370
        802.4297
        802.4184
        14.1
        375 - 380
        1
        ---
        K.LEEERK.R

        816.4408
        815.4335
        815.4389
        -6.56
        231 - 237
        1
        ---
        K.DDKLTPK.I

        852.4056
        851.3984
        851.4137
        -18.03
        144 - 151
        0
        ---
        K.AGYLGSER.L

        890.4479
        889.4507
        893.4719
        -23.75
        555 - 561
        2
        ---
        R.QGRDKYK.T

        967.4568
        966.4495
        966.4263
        24.1
        338 - 344
        1
        ---
        R.QGRDKYK.T

        182.6090
        1181.6017
        1181.5869
        12.5
        264 - 273
        0
        ---
        K.APDFVYAPR.L

        1250.6144
        1249.6091
        -1.59
        134 - 143
        1
        ---
        R.KPDTINEVQMK.A + Oxidation (M)

        1346.6880
        1345.6807
        1345.6837<
    Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide
  No match to: 713.4334, 719.2388, 724.3009, 732.2586, 735.3865, 745.4124, 756.4687, 764.4056, 765.3908, 767.3679, 768.3909, 772.3955, 795.4186, 802.4548, 805.4229, 806.4631, 807.3893, 809.4480, 811.4104, 812.3985, 820.4244, 822.3905, 823.3846, 824.3756, 828.3904, 834.4043, 836.4589, 837.3853, 839.3696, 840.3839, 842.5085, 845.4100, 845.4123, 851.3975, 856.4893, 866.3914, 867.3724, 870.5402, 871.4945, 878.4625, 880.4403, 886.3815, 888.4233, 893.9562, 897.0289, 897.4412, 902.4597, 910.4410, 912.4497, 913.5118,
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    1615.8826, 1616.8605, 1622.8137, 1629.8358, 1630.8466, 1633.9790, 1635.7943, 1644.8046, 1647.8785, 1649.8463, 1651.8245, 1659.8241,
  1662.7909, 1668.7810, 1679.9736, 1683.8121, 1684.8204, 1706.8616, 1707.7838, 1716.8571, 1725.8353, 1728.8242, 1734.8152, 1740.8768, 1746.1659, 1750.8356, 1751.8787, 1753.8948, 1756.8905, 1757.8322, 1763.8188, 1765.7690, 1767.8036, 1768.9027, 1769.4475, 1770.4261,
   1774.9091, 1783.8499, 1786.9000, 1786.9017, 1791.7335, 1808.8868, 1824.8674, 1840.8225, 1844.8907, 1848.8322, 1851.8488, 1867.9503, 1880.9277, 1887.9734, 1908.8838, 1919.0038, 1925.9418, 1928.0103, 1931.9463, 1953.9353, 1975.9609, 1992.9642, 1995.9020, 2007.9894,
   2011.8845, 2013.8983, 2024.8591, 2025.6234, 2036.5195, 2036.9486, 2042.0640, 2047.0167, 2047.9691, 2051.9792, 2052.9924, 2058.9963, 2060.0469, 2064.9900, 2068.8982, 2070.8835, 2074.8914, 2084.8987, 2086.8828, 2092.8821, 2095.9941, 2098.9976, 2100.9160, 2102.8872, 2106.9011, 2108.8835, 2109.9175, 2114.9180, 2116.9160, 2118.8835, 2119.8833, 2125.0176, 2132.8694, 2136.9180, 2170.1467, 2211.1045,
  2225.1191, 2273.0496, 2277.0137, 2307.9941, 2322.9980, 2341.0366, 2343.0271, 2352.0571, 2355.0459, 2359.0532, 2366.0813, 2368.0544, 2369.0710, 2376.0264, 2382.0349, 2383.6099, 2383.9600, 2390.0403, 2396.0342, 2398.0576, 2400.0652, 2406.0737, 2411.0076, 2414.0813,
  2416.0752, 2417.0732, 2420.0718, 2422.0408, 2423.0466, 2428.0898, 2430.0828, 2431.0845, 2433.0779, 2436.0508, 2438.0457, 2439.0261, 2442.0618, 2449.0347, 2452.0632, 2460.0254, 2461.9956, 2463.9858, 2510.1277, 2528.1580, 2542.1509, 2545.1558, 2547.1531, 2552.1038,
   2565.1543, 2585.1111, 2601.0889, 2705.2192, 2717.0693, 3129.3176, 3208.1736, 3223.2710, 3290.4131, 3291.4248, 3312.2756, 3451.3933
  3453.4365
                                                                                                             Expect: 5.5e+002 Matches: 20
  Q2YDN4 Mass: 58176 Score: 16
   Coiled-coil domain-containing protein 105 OS=Bos taurus GN=CCDC105 PE=2 SV=1

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss
        Ions
        Peptide

        880.4403
        879.4371
        -4.66
        204 - 210
        1
        ---
        K.EELKSMK.R + Oxidation (M)

        981.4565
        980.4493
        980.4307
        19.0
        212 - 219
        1
        ---
        R.KMEADMEK.S

        997.4298
        996.4225
        996.4256
        -3.12
        212 - 219
        1
        ---
        R.KMEADMEK.S + Oxidation (M)
```

```
1035.5352 1034.5279 1034.5430 -14.57 340 - 347 1 --- K.MRETLELK.D + Oxidation (M)
1036.5372 1035.5299 1035.5382 -8.03 204 - 211 2 --- K.EELKSMKR.K + Oxidation (M)
1106.5372 1105.5299 1105.5437 -12.49 432 - 440 0 --- K.NLDELLSMR.K + Oxidation (M)
1179.6063 1178.5900 1178.5900 7.67 332 - 341 1 --- R.VCASLAQKMR.E + Oxidation (M)
1183.6123 1182.6050 1182.5856 16.5 443 - 451 1 --- K.LTWSFNCKK.I
1234.6317 1233.6244 1233.6387 -11.56 432 - 441 1 --- K.NLDELLSMRK.K + Oxidation (M)
1319.6852 1318.6779 1318.6849 -5.32 348 - 358 1 --- K.DRLINMTLGLMR.G
1331.6763 1330.6690 1330.6953 -19.74 159 - 169 2 --- R.EATDRLSEVR.K
1335.6937 1334.6864 1334.6799 4.92 348 - 358 1 --- K.DRLINMTLGLMR.G + Oxidation (M)
1494.7423 1493.7350 1493.7105 16.4 213 - 225 1 --- K.MEADMEKSEALLK.T
1579.7926 1578.7853 1578.7599 16.1 195 - 207 1 --- K.ADSMLTWEKEELK.S
1622.8137 1621.8064 1621.8055 0.59 212 - 225 2 --- R.KMEADMEKSEALLK.T
1628.8260 1627.8187 1627.8392 -12.57 367 - 379 1 --- K.FNQEMYITRGLIK.G + Oxidation (M)
1662.7909 1661.7836 1661.7930 -5.65 309 - 322 1 --- K.FNQEMYITRGLIK.G + Oxidation (M)
1662.7909 1661.7836 1661.7930 -5.65 309 - 322 1 --- K.STLDMAKNEEDIR.E
1756.8905 1755.8832 1755.8838 -0.36 400 - 414 1 --- R.MYQRHYGTQLPEAAR.L
1840.8225 1839.8152 1839.8560 -22.17 188 - 203 1 --- K.SETISDKADSMLTWEK.E
1925.9418 1924.9345 1924.9274 3.71 195 - 210 2 --- K.ADSMLTWEKEELKSMKR.R

No match to: 713.4334, 719.2388, 724.3009, 726.2899, 732.2586, 735.3865, 745.4124, 756.4687, 764
      No match to: 713.4334, 719.2388, 724.3009, 726.2899, 732.2586, 735.3865, 745.4124, 756.4687, 764.4056, 765.3908, 767.3679,
    No match to: 713.4334, 719.2388, 724.3009, 726.2899, 732.2586, 735.3865, 745.4124, 756.4687, 764.4056, 765.3908, 767.3679, 768.3909, 772.3955, 795.4186, 802.4548, 803.4370, 805.4229, 806.4631, 807.3893, 809.4480, 811.4104, 812.3985, 816.4408, 820.4244, 822.3905, 823.3846, 824.3756, 828.3904, 834.4043, 836.4589, 837.3853, 839.3696, 840.3839, 842.5085, 845.4100, 845.4123, 851.3975, 852.4056, 856.4893, 866.3914, 867.3724, 870.5402, 871.4945, 878.4625, 886.3815, 888.4233, 890.4479, 893.9562, 894.4579, 897.0289, 897.4412, 902.4597, 910.4410, 912.4497, 913.5118, 916.4905, 918.5391, 925.4747, 928.5064, 930.5048, 933.4619, 935.4698, 939.4758, 947.4628, 949.4591, 951.4703, 954.4674, 957.4657, 963.4676, 965.4761, 967.4568, 969.4571, 972.4793, 972.4800, 975.4650, 977.4630, 978.4976, 983.4664, 985.4842, 991.4688, 993.5331, 999.4453, 1001.4488, 1003.4687, 1007.5668, 1018.5200, 1018.5212, 1023.4777, 1026.4922, 1027.4972, 1030.5151, 1031.3850, 1033.5419, 1039.5402, 1042.5383, 1045.5654, 1056.5488, 1060.5400, 1060.5442, 1065.5425, 1086.5115, 1011.5822, 1113.5584, 1114.5709
      1086.5115, 1111.5582, 1113.5546, 1114.5396, 1115.5605, 1118.5529, 1122.5363, 1128.5775, 1129.6014, 1130.5935, 1140.5485, 1144.5709, 1155.6113, 1156.5720, 1157.5952, 1158.6154, 1159.6273, 1165.5817, 1172.6301, 1173.6259, 1180.6165, 1182.6090, 1185.6317, 1187.6431,
        1193.6096, 1195.6060, 1196.6102, 1206.6770, 1209.1387, 1209.5848, 1210.1014, 1215.6627, 1216.6494, 1222.5994, 1226.5948,
      1231.6174, 1235.5846, 1240.6298, 1244.6324, 1248.6119, 1250.6144, 1268.6498, 1271.6696, 1273.6653, 1275.6644, 1291.6425, 1295.7233, 1300.6062, 1301.6205, 1307.6858, 1315.6570, 1317.6521, 1323.6517, 1325.6637, 1328.6809, 1329.6672, 1332.6743, 1334.6592, 1336.6715,
      1337.6724, 1338.6471, 1342.6680, 1345.6760, 1346.6880, 1349.6991, 1354.6907, 1355.7155, 1357.7034, 1360.6882, 1361.6670, 1365.6913, 1368.6920, 1374.6412, 1375.6798, 1376.6804, 1377.6794, 1382.6647, 1387.6444, 1410.7505, 1411.7208, 1421.7177, 1427.7872, 1431.7961,
     1308.0920, 1374.0912, 1375.0738, 1376.0804, 1377.0734, 1382.0947, 1387.0744, 1410.7305, 1411.7208, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 1421.7177, 
      1774.9091, 1783.8499, 1786.9000, 1786.9017, 1791.7335, 1808.8868, 1824.8674, 1844.8907, 1848.8322, 1850.8301, 1851.8488, 1867.9503, 1880.9277, 1887.9734, 1908.8838, 1914.9995, 1919.0038, 1928.0103, 1931.9463, 1953.9353, 1975.9609, 1992.9642, 1995.9020, 2007.9894,
     2011.8845, 2013.8983, 2024.8591, 2025.6234, 2036.5195, 2036.9486, 2042.0640, 2047.0167, 2047.9691, 2051.9792, 2052.9924, 2058.9963, 2060.0469, 2064.9900, 2068.8982, 2070.8835, 2074.8914, 2083.9907, 2084.8987, 2086.8828, 2092.8821, 2095.9941, 2098.9976, 2100.9160, 2102.8872, 2106.9011, 2108.8835, 2109.9175, 2114.9180, 2116.9160, 2118.8835, 2119.8833, 2125.0176, 2132.8694, 2136.9180, 2170.1467,
      2211.1045, 2225.1191, 2273.0496, 2277.0137, 2307.9941, 2322.9980, 2341.0366, 2343.0271, 2352.0571, 2355.0459, 2359.0532, 2366.0813, 2368.0544, 2369.0710, 2376.0264, 2382.0349, 2383.6099, 2383.9600, 2390.0403, 2396.0342, 2398.0576, 2400.0652, 2406.0737, 2411.0076,
     2414.0813, 2416.0752, 2417.0732, 2420.0718, 2422.0408, 2423.0466, 2428.0898, 2430.0828, 2431.0845, 2433.0779, 2436.0508, 2438.0457, 2439.0261, 2442.0618, 2449.0347, 2452.0632, 2460.0254, 2461.9956, 2463.9858, 2510.1277, 2528.1580, 2542.1509, 2545.1558, 2547.1531,
      2552.1038, 2565.1543, 2585.1111, 2601.0889, 2705.2192, 2717.0693, 3129.3176, 3208.1736, 3223.2710, 3290.4131, 3291.4248, 3312.2756
      3451.3933, 3453.4365
                                       Mass: 7701
                                                                                                                                                                   Expect: 5.7e+002 Matches: 7
    G3MZ80
                                                                                                             Score: 16
     Uncharacterized protein OS=Bos taurus PE=4 SV=1
  Uncharacterized protein OS-Bos taurus PE-4 SV-1

Observed Mr(expt) Mr(calc) ppm Start End Miss Ions

949.4591 948.4518 948.4698 -19.06 32 - 39 1 --- R.EKVADTMR.Q

965.4761 964.4689 964.4648 4.25 32 - 39 1 --- R.EKVADTMR.Q + Oxidation (M)

1033.5419 1032.5346 1032.5274 7.04 40 - 48 0 --- R.OMEALQLGK.Q + Oxidation (M)

1216.6494 1215.6421 1215.6434 -1.05 49 - 58 1 --- K.QGMHLKIFDKI.I

1473.8054 1472.7981 1472.8173 -13.05 49 - 60 2 --- K.QGMHLKIFDKIK.Y + Oxidation (M)

1706.8616 1705.8543 1705.8491 3.06 34 - 48 1 --- K.QGMHLKIFDKIK.Y + Oxidation (M)

1757.8322 1756.8249 1756.8340 -5.16 18 - 33 1 --- R.OQOAETPTAADQGREK.V

Normathy A. 333 718.338 718.338 718.338 7.65 309 7.76 309 7.73 308 7.75 318 7.75 4687 7.64 48
      No match to: 713.4334, 719.2388, 724.3009, 726.2899, 732.2586, 735.3865, 745.4124, 756.4687, 764.4056, 765.3908, 767.3679,
    No match to: 713.4334, 719.2388, 724.3009, 726.2899, 732.2586, 735.3865, 745.4124, 756.4687, 764.4056, 765.3908, 767.3679, 768.3909, 772.3955, 795.4186, 802.4548, 803.4370, 805.4229, 806.4631, 807.3893, 809.4480, 811.4104, 812.3985, 816.4408, 820.4244, 822.3905, 823.3846, 824.3756, 828.3904, 834.4043, 836.4589, 837.3853, 839.3696, 840.3839, 842.5085, 845.4100, 845.4123, 851.3975, 852.4056, 856.4893, 866.3914, 867.3724, 870.5402, 871.4945, 878.4625, 880.4403, 886.3815, 888.4233, 890.4479, 893.9562, 894.4579, 897.0289, 897.4412, 902.4597, 910.4410, 912.4497, 913.5118, 916.4905, 918.5391, 925.4747, 928.5064, 930.5048, 933.4619, 935.4698, 939.4758, 947.4628, 951.4703, 954.4674, 957.4657, 963.4676, 967.4568, 969.4571, 972.4793, 972.4800, 975.4650, 977.4630, 978.4976, 981.4565, 983.4664, 985.4842, 991.4688, 993.5331, 997.4298, 999.4453, 1001.4488, 1003.4687, 1007.5668, 1018.5200, 1018.5212, 1023.4777, 1026.4922, 1027.4972, 1030.5151, 1031.3850, 1035.5352, 1036.5372, 1039.5402, 1042.5383, 1045.5654, 1056.5488, 1060.5402, 1060.5442, 1065.5425, 1086.5115, 1106.5372, 1111.5582, 1113.5546, 1114.5396, 1115.5605, 1118.5529, 1122.5363, 1128.5775, 1129.6014, 1130.5935, 1140.5485, 1144.5709, 1155.6113, 1156.5720, 1157.5952, 1158.6154, 1159.6273, 1165.5817, 1173.6301, 1173.6259, 1179.6063, 1179.6063, 1179.6063, 1179.6063, 1179.6063, 1179.6063, 1179.6063, 1179.6063, 1179.6063, 1179.6063, 1179.6063, 1179.6063, 1179.6063, 1179.6063, 1179.6063, 1179.6063, 1179.6063, 1179.6063, 1179.6063, 1179.6063, 1179.6063, 1179.6063, 1179.6063, 1179.6063, 1179.6063, 1179.6063, 1179.6063, 1179.6063, 1179.6063, 1179.6063, 1179.6063, 1179.6063, 1179.6063, 1179.6063, 1179.6063, 1179.6063, 1179.6063, 1179.6063, 1179.6063, 1179.6063, 1179.6063, 1179.6063, 1179.6063, 1179.6063, 1179.6063, 1179.6063, 1179.6063, 1179.6063, 1179.6063, 1179.6063, 1179.6063, 1179.6063, 1179.6063, 1179.6063, 1179.6063, 1179.6063, 1179.6063, 1179.6063, 1179.6063, 1179.6063, 1179.6063, 1179.6063, 1179.6063, 1179.6063, 1179.6063, 1179.6063, 1179.6063, 1179.6063, 1179.6063, 1179
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      1215.6627, 1222.5994, 1226.5948, 1229.6246, 1231.6174, 1234.6317, 1235.5846, 1240.6298, 1244.6324, 1248.6119, 1250.6144, 1268.6498, 1271.6696, 1273.6653, 1275.6644, 1291.6425, 1295.7233, 1300.6062, 1301.6205, 1307.6858, 1315.6570, 1317.6521, 1319.6852, 1323.6517,
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Oxidation (M)
Variable modifications :
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Protein Mass
                            Unrestricted
Peptide Mass Tolerance :
Fragment Mass Tolerance: ± 0.5 Da
Max Missed Cleavages
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Query325 (2211.1045,1+): <no title>
         (2225.1191,1+):
Query326
Query327 (2273.0496,1+): <no title>
          (2277.0137,1+):
Query328
Query329 (2307.9941,1+): <no title>
         (2322.9980,1+): <no title>
Query330
Query331 (2341.0366,1+): <no title>
Query332 (2343.0271,1+): <no title>
         (2352.0571,1+): <no title>
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Query334 (2355.0459,1+): <no title>
          (2359.0532,1+): <no title>
Query335
Query336 (2366.0813,1+): <no title>
Query337
          (2368.0544,1+): <no title>
                          <no title>
Query338
          (2369.0710,1+):
          (2376.0264,1+): <no title>
Query339
Query340
         (2382.0349,1+): <no title>
Ouerv341 (2383.6099.1+): <no title>
Query342
         (2383.9600,1+): <no title>
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Query344
Query345 (2398.0576,1+): <no title>
Ouerv346 (2400.0652,1+): <no title>
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Query351 (2417.0732,1+): <no title>
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Query353 (2422.0408,1+): <no title>
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Query361
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Query369
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Protein Summary Report (Project: Proteomica, Spot Set: Proteomica\12Jan2012, Label:... Page 33 of 33

Mascot: http://www.matrixscience.com/

MATRIX Mascot Search Results

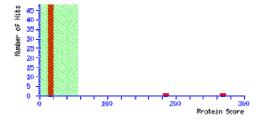
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User : 3w_(F17@11273_12Mar2012)
Email : proteomics@ipatimup.pt
Search title : Project: Proteomica, Spot Set: Proteomica\12Jan2012, Label: F17, Spot Id: 221880, Peak List Id: 435346, MS Job Run Id: 30
MS data file : C:\Documents and Settings\Administrator\Desktop\xu\xu\xu\Proteomica\12Jan2012\ppw_F17_146796935400.txt

Database : OrganismSpecie Bos_taurus_Reference_Proteome_2016_06 (24214 sequences; 12839866 residues)
Timestamp : 8 Jul 2016 at 09:59:43 GMT
Warning : A Peptide summary report will usually give a much clearer picture of MS/MS search results.
Top Score : 269 for FIMYE4, Chondroadherin OS=Bos taurus GN=CHAD PE=4 SV=2
```

Mascot Score Histogram

Protein score is -10*Log(P), where P is the probability that the observed match is a random event. Protein scores greater than 56 are significant (p<0.05).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



Protein Summary Report



Index

	Accession	Mass	Score	Description
1	F1MYE4	41319	269	· · · · · · · · · · · · · · · · · · ·
	027972	41373	183	
	E1BFX3	11338	20	Ribosomal protein L37 OS-Bos taurus GN-RPL37 PE-3 SV-1
	Q1PSA0	42952	20	Uncharacterized protein OS=Bos taurus GN=ZAR1 PE=2 SV=1
	E1B7W1	108879	20	•
	G3X6N6	52918	20	
	Q02368	16615	20	•
	F1N1U9	64259	20	
	F1N7L8	63126	20	•
	G3N2J6	36179	19	
11.	Q1PSA4	20552	19	Uncharacterized protein OS=Bos taurus GN=ZAR1 PE=4 SV=1
12.	Q17Q91	10021	19	Coiled-coil-helix-coiled-coil-helix domain-containing protein 7 OS=Bos taurus GN=CHCHD7 PE=3 SV=1
	Q0IIC8	17012	19	
14.	Q5KR49	32732	19	Tropomyosin alpha-1 chain OS=Bos taurus GN=TPM1 PE=2 SV=1
15.	G1K1U4	51632	19	DNA polymerase delta subunit 3 OS=Bos taurus GN=POLD3 PE=4 SV=2
16.	Q5KR47	32856	19	Tropomyosin alpha-3 chain OS=Bos taurus GN=TPM3 PE=2 SV=1
	Q2T9X5	23537	19	Uncharacterized protein C7orf61 homolog OS=Bos taurus PE=2 SV=1
18.	A6QPI2	49923	19	GAS7 protein OS=Bos taurus GN=GAS7 PE=2 SV=1
19.	Q2TBU3	28638	19	Golgi SNAP receptor complex member 1 OS=Bos taurus GN=GOSR1 PE=2 SV=1
	Q2TBN3	19797	18	
21.	F1MMV5	66566	18	Nuclear speckle-splicing regulatory protein 1 OS=Bos taurus GN=NSRP1 PE=4 SV=2
	Q2KIC0	66733	18	
	E1BDW0	49794	18	
	G3N3V8	69281	18	
	F1MNR4	58473	18	
	Q6YFP9	10868	18	Cytochrome c oxidase subunit 6B2 OS=Bos taurus GN=COX6B2 PE=2 SV=1
	P11019	26180		V-type proton ATPase subunit E 1 OS=Bos taurus GN=ATP6V1E1 PE=2 SV=1
	F1MLG8	9765	18	
	E1BEC7	19673	18	. ,
	A6QLN3	7445	18	± 111 11 11 11 11 11 11 11 11 11 11 11 1
	F1MIT2	31839	18	
	E1BLN1	117436	18	
	Q3ZBL3	49458	17 17	
	Q56JZ9 F1MQU4	16931 106272	17	
	G3MYV8	6868	17	•
	E1B8A3	13661	17	
	G3MWK4	30649	17	
	G3N0W0	3134	17	•
	Q2KHY2	12884	17	
	E1BPQ7	23626	17	•
	Q5EA89	36065	17	
	Q9N287	23425	17	
	F1MJH0	128067	17	
	F1MJI7	69096	17	
	G3MZ80	7701	17	Uncharacterized protein OS=Bos taurus PE=4 SV=1
	A5D7M3	56128	16	
48.	F1MYR3	56242	16	Growth arrest-specific protein 8 OS=Bos taurus GN=GAS8 PE=4 SV=1

```
49. E1BF46     243942     16   Uncharacterized protein OS=Bos taurus GN=ZNF407 PE=4 SV=2
50. F1MYI2     58389     16   Uncharacterized protein OS=Bos taurus GN=HNRNPM PE=1 SV=2
```

Results List

F1MYE4	Mass: 41319	Score:	269	Expect:	3e-0	23 M	Matche	ss: 29
Chondroadh	erin OS=Bos	taurus GN						
Observed 756.4777	Mr (expt)	Mr (calc)	ppm 6.75	Start			Ions	
765.3959	755.4704 764.3887	755.4653 764.3817	9.11	166 -	62			K.LLNLQR.N R.SGAFQGAK.D
802.4609	801.4537	801.4497	4.96	315 -				R.RWLEAK.T
820.4252	819.4180	819.4239	-7.24		98	0		R.EVAAGAFR.G
837.3794	836.3721	836.3633	10.5	306 -		0		K.CTCQLR.G
913.5080	912.5007	912.5042	-3.82	334 -	340	1		K.FRGQHIR.D
913.5100	912.5027	912.5042	-1.63	334 -	340	1	28	K.FRGQHIR.D
985.6071	984.5998	984.5968	3.14	220 -	227	1		K.LRVVEELK.L
993.5267	992.5195	992.5226	-3.14	347 -		2		R.GCKFPTKR.S
	1017.5057		-4.60	274 -				K.HVHLENNR.L
		1068.4659	10.7	341 -		1		R.DTDAFRGCK.F
	1148.5839		-8.61	166 -		1		R.SGAFQGAKDLR.W
	1162.6072		-1.92	163 -				R.ELRSGAFQGAK.D
	1314.6291		-10.48 -10.23	336 - 235 -		1		R.GQHIRDTDAFR.G K.SIPDNAFQSFGR.Y
	1337.6227		-10.23	235 -		0	67	K.SIPDNAFQSFGR.Y
	1348.6727		-11.89		74	0	80	R.NNFPVLAANSFR.A
	1348.6754		-9.89		74	0		R.NNFPVLAANSFR.A
	1354.6891			261 -		0		K.FSDGAFLGVTTLK.H
	1360.6300		-7.70	321 -		0		K.TSRPDATCASPAK.F
1365.6752	1364.6679	1364.6936	-18.78	207 -	219	0		R.NQLSSYPSAALSK.L
1505.8511	1504.8438	1504.8613	-11.61	222 -	234	1		R.VVEELKLSHNPLK.S
1647.8730	1646.8657	1646.8780	-7.46	102 -	114	0		K.QLIYLYLSHNDIR.V
	1750.8584			247 -				R.YLETLWLDNTNLEK.F
1775.0302	1774.0229	1774.0465	-13.27	220 -	234	2		K.LRVVEELKLSHNPLK.S
	1915.9809		-3.31	75 -		0		R.AMPNLVSLHLQHCQIR.E
	1931.9740		-4.23	75 -		0		R.AMPNLVSLHLQHCQIR.E + Oxidation (M)
	2059.0327		-2.28	202 -		1	44	K.FYLDRNQLSSYPSAALSK.L
	2059.0332		-2.04	202 -			2754	K.FYLDRNQLSSYPSAALSK.L
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								430, 1867.9100, 1868.9441, 1870.9304, 1880.9020, 1884.9191, 1908.8989,
								543, 1994.8763, 2011.9012, 2013.8700, 2020.9592, 2025.5920, 2042.0568,
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2564.1965,	2/05.2144,	2/1/.1655	, 2834.2	925, 288	38.24	83, 2	904.4	1053, 3130.4312, 3291.4875, 3312.3765, 3451.6833, 3454.6270
027972	Mass: 41373	Score:	183	Expect:	1 2e	-014	Mato	thes: 27
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Observed		Mr (calc)			End	Miss	Ions	Peptide
756.4777	755.4704	755.4653			62			K.LLNLQR.N
765.3959	764.3887	764.3817	9.11	166 -	173	0		R.SGAFQGAK.D
802.4609	801.4537	801.4497	4.96	315 -	320	1		R.RWLEAK.T
820.4252	819.4180	819.4239		91 -				R.EVAAGAFR.G
837.3794	836.3721	836.3633	10.5	306 -		0		K.CTCQLR.G
913.5080								K.FRGQHIR.D
913.5100	912.5027	912.5042				1	28	K.FRGQHIR.D
985.6071	984.5998	984.5968		220 -				K.LRVVEELK.L
993.5267	992.5195	992.5226		347 -				R.GCKFPTKR.S
	1017.5057			274 -				K.HVHLENNR.L
	1068.4773			341 -				R.DTDAFRGCK.F
	1148.5839			166 -				R.SGAFQGAKDLR.W
	1162.6072 1314.6291			163 - 336 -				R.ELRSGAFQGAK.D R.GQHIRDTDAFR.G
1010.0004								
1338 6300								K SIPDNAFOSEGR Y
1338.6300 1338.6300							67	K.SIPDNAFQSFGR.Y K.SIPDNAFOSFGR.Y
1338.6300	1337.6227	1337.6364	-10.23	235 -	246	0	67	K.SIPDNAFQSFGR.Y
1338.6300 1355.6964		1337.6364 1354.7133	-10.23 -17.84		246	0	67	

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1365.6752 1364.6679 1364.6936 -18.78 207 - 219 0 --- R.NQLSSYPSAALSK.L
1505.8511 1504.8438 1504.8613 -11.61 222 - 234 1 --- R.VVEELKJSHNPLK.S
1647.8730 1646.8657 1646.8780 -7.46 102 - 114 0 --- K.QLIYLYLSHNDIR.V
1751.8657 1750.8584 1750.8777 -11.03 247 - 260 0 --- R.YLETLWLDNTNLEK.F
1775.0302 1774.0229 1774.0465 -13.27 220 - 234 2 --- K.LRVVEELKJSHNPLK.S
1916.9882 1915.9809 1915.9873 -3.31 75 - 90 0 --- R.AMPNLVSLHLQHCQIR.E
1932.9813 1931.9740 1931.9822 -4.23 75 - 90 0 --- R.AMPNLVSLHLQHCQIR.E + Oxidation (M)
2060.0400 2059.0327 2059.0374 -2.28 202 - 219 1 44 K.FYLDRNQLSSYPSAALSK.L
2060.0405 2059.0332 2059.0374 -2.04 202 - 219 1 --- K.FYLDRNQLSSYPSAALSK.L
 No match to: 713.4400, 713.4415, 724.3446, 728.2467, 730.2754, 732.2383, 734.2729, 735.3820, 736.3320, 740.2330, 743.2514, 748.2947, 750.2650, 764.3574, 768.3784, 772.4155, 774.3952, 778.4551, 780.3343, 782.3223, 783.3115, 787.2390, 791.2662, 805.3347, 806.4342, 807.3921, 808.4378, 812.4002, 814.4128, 828.3922, 830.3668, 834.3623, 840.3857, 842.5100, 845.4155, 851.3846, 856.5103,
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 1884.9191, 1908.8989, 1914.9821, 1920.9862, 1930.9827, 1934.9822, 1947.0288, 1958.9543, 1994.8763, 2011.9012, 2013.8700, 2020.9592, 2025.5920, 2042.0568, 2047.0238, 2047.9805, 2049.9497, 2052.9905, 2053.9851, 2058.9988, 2065.0427, 2066.0137, 2066.9895, 2067.9763,
 2068.9128, 2070.8792, 2074.8860, 2082.0293, 2084.8977, 2086.8872, 2087.8835, 2090.8708, 2092.8674, 2093.8711, 2096.9836, 2097.9961
 2100.8787, 2101.8999, 2103.9092, 2107.8730, 2119.9924, 2122.9397, 2136.9133, 2211.1047, 2217.9368, 2225.1243, 2232.0229, 2233.0840,
 2238.1050, 2250.0259, 2257.9934, 2262.9368, 2263.9700, 2273.0264, 2277.9500, 2283.1741, 2290.9570, 2307.9631, 2321.9558, 2323.9670,
 234.9824, 2335.9763, 2339.9456, 2343.0320, 2349.9844, 2352.0308, 2355.0315, 2358.0854, 2368.0815, 2369.0588, 2378.0020, 2379.0002, 2380.0007, 2381.9963, 2383.0444, 2383.9822, 2393.0020, 2394.0181, 2398.0447, 2400.0771, 2405.0879, 2414.1050, 2417.0933, 2421.0769, 2422.0593, 2426.0476, 2428.0725, 2430.0947, 2432.0962, 2435.0254, 2438.0706, 2444.0901, 2451.0278, 2459.9802, 2461.0254, 2501.2520, 2528.1902, 2543.2092, 2564.1965, 2705.2144, 2717.1655, 2834.2925, 2888.2483, 2904.4053, 3130.4312, 3291.4875, 3312.3765, 3451.6833,
 E1BFX3 Mass: 11338 Score: 20
                                                                       Expect: 2.4e+002 Matches: 7
 Ribosomal protein L37 OS=Bos taurus GN=RPL37 PE=3 SV=1
842.5100, 845.4155, 851.3846, 856.5103, 855.3634, 869.4703, 870.5254, 871.4965, 872.6990, 888.3988, 891.4706, 893.9500, 894.4554, 897.0277, 905.4637, 911.4314, 912.4475, 913.5080, 913.5100, 918.5267, 925.4804, 927.4970, 930.5015, 933.4662, 935.4675, 943.4757, 951.4646, 952.4799, 957.4673, 961.4901, 962.4866, 967.4440, 969.4496, 972.4781, 974.5051, 975.4521, 977.4406, 978.4772, 979.4924, 983.4706, 985.6071, 991.4533, 993.5267, 999.4602, 1001.4565, 1001.5621, 1003.5043, 1007.5638, 1012.5004, 1014.5331, 1018.5130,
 1022.5398, 1023.5525, 1028.5991, 1030.5259, 1035.5314, 1036.5333, 1040.5127, 1042.5243, 1045.5603, 1060.5398, 1069.4846, 1075.5515, 1092.6041, 1106.5313, 1109.5087, 1111.5457, 1113.5419, 1115.5394, 1118.5659, 1121.5419, 1122.5701, 1131.5602, 1138.5428, 1155.5768,
  1157.5907, 1158.6328, 1163.6145, 1173.6122, 1177.6130, 1178.6060, 1179.5918, 1180.6001, 1181.6368, 1183.6030, 1187.6376, 1192.6014,
 1193.5928, 1195.5924, 1199.6785, 1206.6066, 1216.6482, 1226.5839, 1227.6051, 1231.6115, 1232.6251, 1233.6230, 1234.6500, 1235.6155, 1248.6078, 1250.6483, 1254.6526, 1255.6036, 1256.6123, 1268.6208, 1271.6423, 1276.6179, 1277.6350, 1289.6449, 1294.6362, 1295.6366,
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 1355.6964, 1359.7053, 1360.6173, 1361.6373, 1365.6752, 1371.6718, 1375.6670, 1377.6776, 1382.6367, 1383.6619, 1387.6700, 1393.6727, 1400.6235, 1409.7107, 1411.6742, 1427.7725, 1431.7605, 1432.6987, 1434.7190, 1449.7479, 1466.6953, 1473.7905, 1475.7498, 1478.7303,
 1479.7468, 1485.7531, 1486.7472, 1493.7345, 1495.7502, 1500.7242, 1503.7690, 1505.8511, 1509.6786, 1520.7347, 1522.7239, 1523.7567,
 1525.7864, 1527.8068, 1532.7472, 1537.7886, 1539.7711, 1549.7833, 1555.8657, 1558.8440, 1559.8573, 1568.7592, 1570.7814, 1578.7899, 1606.8213, 1615.8425, 1619.7972, 1621.7831, 1628.8156, 1630.8202, 1631.8217, 1639.9263, 1644.8083, 1647.8730, 1649.8650, 1650.8523,
 1658.8206, 1659.8125, 1661.8284, 1663.7981, 1665.8070, 1669.8174, 1677.8353, 1679.9403, 1680.8076, 1682.7780, 1696.8055, 1697.7845, 1698.7950, 1707.7931, 1709.8029, 1710.8878, 1712.9166, 1716.8563, 1725.8188, 1727.8683, 1730.8236, 1731.8221, 1742.8798, 1746.1482,
 1749.8406, 1751.8657, 1756.8782, 1757.8225, 1763.8152, 1765.7922, 1766.8105, 1768.8596, 1769.4275, 1770.4087, 1773.8615, 1774.8795, 1775.0302, 1783.8599, 1785.8483, 1786.8871, 1790.8822, 1792.7894, 1801.9315, 1804.9026, 1808.8663, 1824.8685, 1830.8608, 1849.8231,
 1851.8430, 1867.9100, 1868.9441, 1870.9304, 1880.99020, 1884.9191, 1908.8889, 1914.9821, 1916.9882, 1920.9862, 1930.9827, 1932.9813, 1934.9822, 1947.0288, 1958.9543, 1994.8763, 2011.9012, 2013.8700, 2020.9592, 2025.5920, 2042.0568, 2047.0238, 2047.9805, 2049.9497, 2052.9905, 2053.9851, 2058.9988, 2060.0400, 2060.0405, 2065.0427, 2066.0137, 2066.9895, 2067.9763, 2068.9128, 2070.8792, 2074.8860,
 2082.0293, 2084.8977, 2086.8872, 2087.8835, 2090.8708, 2092.8674, 2093.8711, 2097.9961, 2100.8787, 2101.8999, 2103.9092, 2107.8730, 2119.9924, 2122.9397, 2136.9133, 2211.1047, 2217.9368, 2225.1243, 2232.0229, 2233.0840, 2238.1050, 2250.0259, 2257.9934, 2262.9368,
 2263.9700, 2273.0264, 2277.9500, 2283.1741, 2290.9570, 2307.9631, 2321.9558, 2323.9670, 2324.9824, 2335.9763, 2339.9456, 2343.0320, 2349.9844, 2352.0308, 2355.0315, 2358.0854, 2368.0815, 2369.0588, 2378.0020, 2379.0002, 2380.0007, 2381.9963, 2383.0444, 2383.9822,
 2393.0020, 2394.0181, 2398.0447, 2400.0771, 2405.0879, 2414.1050, 2417.0933, 2421.0769, 2422.0593, 2426.0476, 2428.0725, 2430.0947
 2432.0962, 2435.0254, 2438.0706, 2444.0901, 2451.0278, 2459.9802, 2461.0254, 2501.2520, 2528.1902, 2543.2092, 2564.1965, 2705.2144, 2717.1655, 2834.2925, 2888.2483, 2904.4053, 3130.4312, 3291.4875, 3312.3765, 3451.6833, 3454.6270
 Q1PSA0 Mass: 42952
                                                Score: 20
                                                                           Expect: 2.5e+002 Matches: 16
 Uncharacterized protein OS=Bos taurus GN=ZAR1 PE=2 SV=1

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss
        Ions
        Peptide

        1035.5314
        1034.5241
        1034.5219
        2.18
        24
        33
        0
        ---
        R.CLYPAAAAAK.G

        1069.4846
        1068.4773
        1068.4836
        -5.87
        156
        - 165
        0
        ---
        R.GPEQDSPPSR.A

        1271.6423
        1270.6350
        1270.6266
        6.65
        258
        - 269
        1
        ---
        R.VPDTAGERSSPR.

                                                                                                                      R.VPDTAGERSSPR.S
 1276.6179 1275.6106 1275.6354 -19.40 111 - 121 1 --- R.DVSVQCSLGRR.T
1294.6362 1293.6289 1293.6473 -14.18 357 - 366 1 --- K.RPHRQDLCGR.C
1347.6653 1346.6580 1346.6289 21.6 371 - 381 1 --- K.RLSCDSTFSFK.Y
```

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1355.6964 1354.6891 1354.6953 -4.56 266 - 277 2 --- R.SSPRSPQPSKER.L
1393.6727 1392.6654 1392.6746 -6.57 156 - 168 1 --- R.GPEQDSPPSRAPR.R
1532.7472 1551.7399 1531.7453 -3.52 369 - 381 2 --- K.GKRLSCDSTFSFK.Y
1549.7833 1548.7760 1548.7757 0.22 156 - 169 2 --- R.GPEQDSPPSRAPR.V
1680.8076 1679.8003 1679.7912 5.42 313 - 324 2 --- K.VYYKGPCRTCQK.S
1870.9304 1869.9231 1869.9493 -13.98 352 - 366 2 --- R.HVDPKRPHRQDLCGR.C
1930.9827 1929.9754 1929.9769 -0.76 211 - 229 2 --- R.GPPARPRGFEEGDGSARK.V
2383.0444 2382.0371 2382.0549 -7.45 331 - 349 2 --- R.VEDITCQNCKQTRCSCPVK.L
2432.0962 2431.0889 2431.1009 -4.91 325 - 343 2 --- K.SYNPYRVEDITCQNCKQTR.C
2564.1965 2563.1892 2563.1254 24.9 321 - 340 2 --- R.TCQKSYNPYRVEDITCQNCK.Q
  No match to: 713.4400, 713.4415, 724.3446, 728.2467, 730.2754, 732.2383, 734.2729, 735.3820, 736.3320, 740.2330, 743.2514, 748.2947, 750.2650, 756.4777, 764.3574, 765.3959, 768.3784, 772.4155, 774.3952, 778.4551, 780.3343, 782.3223, 783.3115, 787.2390, 791.2662, 802.4609, 805.3347, 806.4342, 807.3921, 808.4378, 812.4002, 814.4128, 820.4252, 828.3922, 830.3668, 834.3623, 837.3794,
  840.3857, 842.5100, 845.4155, 851.3846, 856.5103, 865.3634, 869.4703, 870.5254, 871.4965, 872.6990, 888.3988, 891.4706, 893.9500, 894.4534, 897.0277, 905.4637, 911.4314, 912.4475, 913.5080, 913.5100, 918.5267, 925.4804, 927.4970, 930.5015, 933.4662, 935.4675, 943.4757, 951.4646, 952.4799, 957.4673, 961.4901, 962.4866, 967.4440, 969.4496, 972.4781, 974.5051, 975.4521, 977.4406, 978.4772,
  979.4924, 983.4706, 985.6071, 991.4533, 993.5267, 995.5177, 999.4602, 1001.4565, 1001.5621, 1003.5043, 1007.5638, 1012.5004,
   1014.5331, 1018.5130, 1022.5398, 1023.5525, 1028.5991, 1030.5259, 1036.5333, 1037.5145, 1040.5127, 1042.5243, 1045.5603, 1060.5398,
  1075.5515, 1092.6041, 1106.5313, 1109.5087, 1111.5457, 1113.5419, 1115.5394, 1118.5659, 1121.5419, 1122.5701, 1131.5602, 1138.5428, 1149.5912, 1155.5768, 1157.5907, 1158.6328, 1163.6145, 1173.6122, 1177.6130, 1178.6060, 1179.5918, 1180.6001, 1181.6368, 1183.6030,
  1187.6376, 1192.6014, 1193.5928, 1195.5924, 1199.6785, 1206.6066, 1215.6306, 1216.6482, 1226.5839, 1227.6051, 1231.6115, 1232.6251,
  1233.6230, 1234.6500, 1235.6155, 1248.6078, 1250.6483, 1254.6526, 1255.6036, 1256.6123, 1268.6208, 1277.6350, 1289.6449, 1292.6322, 1295.6366, 1300.5895, 1303.6643, 1305.6523, 1307.6600, 1308.6443, 1310.6051, 1315.6364, 1320.6128, 1321.6134, 1323.6320, 1325.6456,
  1331.6674, 1332.6602, 1333.2076, 1334.6744, 1336.6710, 1337.6279, 1338.6300, 1338.6300, 1345.6146, 1349.6800, 1349.6827, 1354.6820, 1359.7053, 1360.6173, 1361.6373, 1365.6752, 1371.6718, 1375.6670, 1377.6776, 1382.6367, 1383.6619, 1387.6700, 1400.6235, 1409.7107,
  1411.6742, 1427.7725, 1431.7605, 1432.6987, 1434.7190, 1449.7479, 1466.6953, 1473.7905, 1475.7498, 1478.7303, 1479.7468, 1485.7531, 1486.7472, 1493.7345, 1495.7502, 1500.7242, 1503.7690, 1505.8511, 1509.6786, 1520.7347, 1522.7239, 1523.7567, 1525.7864, 1527.8068,
   1537.7886, 1539.7711, 1555.8657, 1558.8440, 1559.8573, 1568.7592, 1570.7814, 1578.7899, 1606.8213, 1615.8425, 1619.7972,
                                                                                                                                                                                                                                                       1621.7831
  1628.8156, 1630.8202, 1631.8217, 1639.9263, 1644.8083, 1647.8730, 1649.8650, 1650.8523, 1658.8206, 1659.8125, 1661.8284, 1663.7981,
  1665.8070, 1669.8174, 1677.8353, 1679.9403, 1682.7780, 1696.8055, 1697.7845, 1698.7950, 1707.7931, 1709.8029, 1710.8878, 1712.9166, 1716.8563, 1725.8188, 1727.8683, 1730.8236, 1731.8221, 1742.8798, 1746.1482, 1749.8406, 1751.8657, 1756.8782, 1757.8225, 1763.8152,
  1765.7922, 1766.8105, 1768.8596, 1769.4275, 1770.4087, 1773.8615, 1774.8795, 1775.0302, 1783.8599, 1785.8483, 1786.8871, 1790.8822,
  1792.7894, 1801.9315, 1804.9026, 1808.8663, 1824.8685, 1830.8608, 1849.8231, 1851.8430, 1867.9100, 1868.9441, 1880.9020, 1884.9191, 1908.8989, 1914.9821, 1916.9882, 1920.9862, 1932.9813, 1934.9822, 1947.0288, 1958.9543, 1994.8763, 2011.9012, 2013.8700, 2020.9592,
  2025.5920, 2042.0568, 2047.0238, 2047.9805, 2049.9497, 2052.9905, 2053.9851, 2058.9988, 2060.0400, 2060.0405, 2065.0427, 2066.0137, 2066.9895, 2067.9763, 2068.9128, 2070.8792, 2074.8860, 2082.0293, 2084.8977, 2086.8872, 2087.8835, 2090.8708, 2092.8674, 2093.8711,
  2096.9836, 2097.9961, 2100.8787, 2101.8999, 2103.9092, 2107.8730, 2119.9924, 2122.9397, 2136.9133, 2211.1047, 2217.9368, 2225.1243,
  2232.0229, 2233.0840, 2238.1050, 2250.0259, 2257.9934, 2262.9368, 2263.9700, 2273.0264, 2277.9500, 2283.1741, 2290.9570, 2307.9631, 2321.9558, 2323.9670, 2324.9824, 2335.9763, 2339.9456, 2343.0320, 2349.9844, 2352.0308, 2355.0315, 2358.0854, 2368.0815, 2369.0588,
  2378.0020, 2379.0002, 2380.0007, 2381.9963, 2383.9822, 2393.0020, 2394.0181, 2398.0447, 2400.0771, 2405.0879, 2414.1050, 2417.0933, 2421.0769, 2422.0593, 2426.0476, 2428.0725, 2430.0947, 2435.0254, 2438.0706, 2444.0901, 2451.0278, 2459.9802, 2461.0254, 2501.2520, 2528.1902, 2543.2092, 2705.2144, 2717.1655, 2834.2925, 2888.2483, 2904.4053, 3130.4312, 3291.4875, 3312.3765, 3451.6833, 3454.6270
                     Mass: 108879 Score: 20
                                                                                Expect: 2.5e+002 Matches: 34
  Uncharacterized protein OS=Bos taurus GN=THRAP3 PE=4 SV=1
                                                                     ppm Start End Miss Ions
   Observed Mr(expt) Mr(calc)
                                                                        23.4 423 - 428 0 ---
   764.3574
                         763.3501
                                                763.3323
                                                                                                                              K.MADFHK.E + Oxidation (M)
808.4378 807.4305 807.4160 18.0 371 - 376 2 --- K.EKMKEK.G + Oxidation (M)
828.3922 827.3849 827.3998 -18.03 511 - 517 1 --- K.RSESGHR.G
933.4662 932.4500 932.4716 -13.50 702 - 709 1 --- K.SPEPGYK.A
935.4675 934.4602 934.4468 14.3 741 - 748 1 --- K.SPESVDSR.D
967.4440 966.4367 966.4308 6.14 109 - 115 0 --- R.SNWQNYR.Q
978.4772 977.4700 977.4818 -12.10 705 - 713 1 --- R.EPGYKAEGK.Y
979.4924 978.4852 978.4955 -10.56 9 - 17 2 --- K.SGSRSSRSR.S
933.5267 992.5111 8.39 13 - 21 2 --- R.SSRSASRS.S
1035.5314 1034.5241 1034.5397 -15.02 683 - 691 0 --- R.IDISPSTFR.K
1042.5243 1041.5170 1041.5291 -11.55 910 - 917 2 --- R.GGSKRSESGHR.G
1158.6328 1157.6255 1157.6040 18.6 757 - 766 2 --- R.SAKTEKTHK.G
1163.6145 1162.6072 1162.6346 -23.56 683 - 692 1 --- R.JDISPSTFR.H
1183.6030 1182.5957 1182.6006 -4.14 63 - 71 1 --- R.NHPRVYQNR.D
1216.6482 1215.6409 1215.6288 9.97 473 - 483 0 --- K.WEGLVYAPPGK.E
1235.6155 1234.6082 1234.5829 20.5 335 - 347 0 --- K.EGARAPGGAAYTK.R
1277.6350 1276.6277 1276.6173 8.13 72 - 81 2 --- R.DFRGHNRGYR.R
1305.6523 1304.6450 1304.6725 -21.04 818 - 829 1 --- R.IGTKDFVGPSER.G
   808.4378
                         807.4305
                                                807.4160
                                                                      18.0
                                                                                    371 - 376
                                                                                                            2 ---
                                                                                                                               K.EKMKEK.G + Oxidation (M)
2380.0007 2378.9934 2378.9873
                                                                                     796 - 815
                                                                                                              1 --- K.AEEYTEETEEREESTTGFDK.S
                                                                      2.55
  No match to: 713.4400, 713.4415, 724.3446, 728.2467, 730.2754, 732.2383, 734.2729, 735.3820, 736.3320, 740.2330, 743.2514,
  748.2947, 750.2550, 756.4777, 765.3550, 756.4777, 768.3784, 772.4155, 774.3952, 778.4551, 780.3343, 782.3223, 783.3115, 787.2390, 791.2662, 802.4609, 805.3347, 806.4342, 807.3921, 812.4002, 814.4128, 820.4252, 830.3668, 834.3623, 837.3794, 840.3857, 842.5100, 845.4155, 851.3846, 856.5103, 865.3634, 869.4703, 870.5254, 871.4965, 872.6990, 888.3988, 891.4706, 893.9500, 894.4534, 897.0277, 905.4637,
  911.4314, 912.4475, 913.5080, 913.5100, 918.5267, 925.4804, 927.4970, 930.5015, 943.4757, 951.4646, 952.4799, 957.4673, 961.4901, 962.4866, 969.4496, 972.4781, 974.5051, 975.4521, 977.4406, 983.4706, 985.6071, 991.4533, 995.5177, 999.4602, 1001.4565, 1001.5621, 1003.5043, 1007.5638, 1012.5004, 1014.5331, 1018.5130, 1022.5398, 1023.5525, 1028.5991, 1030.5259, 1036.5333, 1037.5145, 1040.5127,
  1045.5603, 1060.5398, 1069.4846, 1075.5515, 1092.6041, 1106.5313, 1109.5087, 1111.5457, 1113.5419, 1115.5394, 1118.5659, 1121.5419,
   1122.5701, 1131.5602, 1138.5428, 1149.5912, 1155.5768, 1173.6122, 1177.6130, 1178.6060, 1179.5918, 1180.6001, 1181.6368, 1187
  1192.6014, 1193.5928, 1195.5924, 1199.6785, 1206.6066, 1215.6306, 1226.5839, 1227.6051, 1231.6115, 1232.6251, 1233.6230, 1234.6500, 1248.6078, 1250.6483, 1254.6526, 1255.6036, 1256.6123, 1268.6208, 1271.6423, 1276.6179, 1289.6449, 1292.6322, 1294.6362, 1295.6366,
  1300.5895, 1303.6643, 1307.6600, 1308.6443, 1310.6051, 1315.6364, 1320.6128, 1321.6134, 1323.6320, 1325.6456, 1332.6602, 1333.2076,
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1336.6710, 1337.6279, 1338.6300, 1338.6300, 1345.6146, 1347.6653, 1349.6800, 1349.6827, 1354.6820, 1355.6964, 1359.7053, 1360.6173, 1365.6752, 1375.6670, 1382.6367, 1383.6619, 1387.6700, 1400.6235, 1409.7107, 1411.6742, 1427.7725, 1431.7605, 1432.6987, 1434.7190,
  1449.7479, 1466.6953, 1475.7498, 1478.7303, 1479.7468, 1486.7472, 1493.7345, 1495.7502, 1500.7242, 1503.7690, 1505.8511,
                                                                                                                                                                                                                                                           1509.6786.
  1520,7347, 1522,7239, 1523,7567, 1525,7864, 1527,8068, 1532,7472, 1537,7886, 1539,7711, 1549,7833, 1555,8657, 1558,8440, 1559,8573,
   1568.7592, 1570.7814, 1578.7899, 1606.8213, 1615.8425, 1619.7972, 1621.7831, 1628.8156, 1630.8202, 1631.8217, 1639.9263, 1644.8083,
 1647.8730, 1649.8650, 1650.8523, 1658.8206, 1659.8125, 1661.8284, 1663.7981, 1665.8070, 1677.8353, 1679.9403, 1680.8076, 1682.7780, 1696.8055, 1697.7845, 1698.7950, 1707.7931, 1709.8029, 1710.8878, 1712.9166, 1716.8563, 1727.8683, 1730.8236, 1731.8221, 1742.8798,
  1746.1482, 1749.8406, 1751.8657, 1756.8782, 1757.8225, 1763.8152, 1766.8105, 1768.8596, 1769.4275, 1770.4087, 1773.8615, 1774.8795, 1775.0302, 1783.8599, 1785.8483, 1786.8871, 1790.8822, 1792.7894, 1801.9315, 1804.9026, 1824.8685, 1830.8608, 1849.8231, 1851.8430,
  1867.9100, 1868.9441, 1870.9304, 1884.9191, 1908.8989, 1914.9821, 1916.9882, 1920.9862, 1930.9827, 1932.9813, 1934.9822, 1947.0288,
  1958.9543, 1994.8763, 2011.9012, 2013.8700, 2020.9592, 2025.5920, 2042.0568, 2047.0238, 2047.9805, 2049.9497, 2052.9905, 2053.9851, 2058.9988, 2060.0400, 2060.0405, 2065.0427, 2066.0137, 2066.9895, 2067.9763, 2068.9128, 2070.8792, 2074.8860, 2082.0293, 2084.8977,
 2086.8872, 2087.8835, 2090.8708, 2092.8674, 2093.8711, 2096.9836, 2097.9961, 2100.8787, 2101.8999, 2103.9092, 2107.8730, 2119.9924, 2122.9397, 2136.9133, 2211.1047, 2217.9368, 2225.1243, 2232.0229, 2233.0840, 2238.1050, 2250.0259, 2257.9934, 2262.9368, 2263.9700,
 2277.9500, 2283.1741, 2290.9570, 2307.9631, 2321.9558, 2323.9670, 2324.9824, 2335.9763, 2339.9456, 2343.0320, 2349.9844, 2352.0308, 2355.0315, 2358.0854, 2368.0815, 2369.0588, 2378.0020, 2379.0002, 2381.9963, 2383.0444, 2383.9822, 2393.0020, 2394.0181, 2398.0447,
 2400.0771, 2405.0879, 2414.1050, 2417.0933, 2421.0769, 2422.0593, 2426.0476, 2428.0725, 2430.0947, 2432.0962, 2435.0254, 2438.0706, 2444.0901, 2451.0278, 2459.9802, 2461.0254, 2501.2520, 2528.1902, 2543.2092, 2564.1965, 2705.2144, 2717.1655, 2834.2925, 2888.2483,
  2904.4053, 3130.4312, 3291.4875, 3312.3765, 3451.6833, 3454.6270
                     Mass: 52918
                                                 Score: 20
                                                                                  Expect: 2.5e+002 Matches: 19
  Uncharacterized protein OS=Bos taurus PE=4 SV=1

        Observed
        Mr (expt)
        Mr(calc)
        ppm
        Start
        End Miss
        Ions
        Peptide

        977.4406
        976.4333
        976.4284
        5.00
        49 - 57
        0 ---
        K.SDGLCPSNK.G

 1001.5621 1000.5548 1000.5454 9.42
                                                                                      170 - 177
                                                                                                                                 R.IHTEKAFR.N
 1036.5333 1035.5260 1035.5349 -8.57 366 - 374 0 --- K.VFNQNSSLK.G
 1040.5127 1039.5054 1039.4934 11.6 178 - 186 0 --- R.NYSNLSSQK.K
1060.5398 1059.5325 1059.5349 -2.24 216 - 224 0 --- R.THTGEKPYK.C
1122.5701 1121.5628 1121.5353 24.6 323 - 331 1 --- K.SHTEEKTYK.C
1122.5701 1121.5628 1121.5353 24.6 323 - 331 1 --- K.SHTEEKTYK.C

1178.6060 1177.5987 1177.5840 12.5 166 - 174 1 --- K.EHERIHTEK.A

1195.5924 1194.5851 1194.5638 17.9 225 - 234 1 --- K.CPLGGKAFSR.C

1216.6482 1215.6409 1215.6360 4.05 215 - 224 1 --- K.THTGEKPYK.C

1310.6051 1309.5978 1309.5696 21.6 329 - 337 1 --- K.TYKCHQCWK.V

1371.6718 1370.6645 1370.6587 4.23 85 - 95 1 --- R.MAFNQAKMFQR.F

1387.6700 1386.6627 1386.6536 6.55 85 - 95 1 --- R.MAFNQAKMFQR.F + Oxidation (M)

1503.7690 1502.7617 1502.7664 -3.08 255 - 266 2 --- R.LCGFSLKEHEK.A

1804.9026 1803.8953 1803.8648 16.9 407 - 421 0 --- K.HTGEKPYK.C

1930.9827 1929.9754 1929.9917 -8.43 187 - 202 2 --- K.KHTGEKPYK.C

2307.9631 2306.9558 2306.9692 -5.78 375 - 393 1 --- K.GHERTHTGEKPCECHQCGK.A

2398.0447 2397.0374 2396.9974 16.7 263 - 281 2 --- K.EHERHTHGEKPCECHQCGK.V

2428.0725 2427.0652 2427.0631 0.89 379 - 398 1 --- R.THTGEKPCECHQCGKAFPQR.R

No match to: 713.4410, 713.4415, 724.3446, 728.2467, 730.2754, 732.2383, 734.2729, 735.3820,
 78. No match to: 713.4400, 713.4415, 724.3446, 728.2467, 730.2754, 732.2383, 734.2729, 735.3820, 736.3320, 740.2330, 743.2514, 748.2947, 750.2650, 756.4777, 764.3574, 765.3959, 768.3784, 772.4155, 774.3952, 778.4551, 780.3343, 782.3223, 783.3115, 787.2390, 791.2662, 802.4609, 805.3347, 806.4342, 807.3921, 808.4378, 812.4002, 814.4128, 820.4252, 828.3922, 830.3668, 834.3623, 837.3794,
 840.3857, 842.5100, 845.4155, 851.3846, 856.5103, 865.3634, 869.4703, 870.5254, 871.4965, 872.6990, 888.3988, 891.4706, 893.9500, 894.4534, 897.0277, 905.4637, 911.4314, 912.4475, 913.5080, 913.5100, 918.5267, 925.4804, 927.4970, 930.5015, 933.4662, 935.4675, 943.4757, 951.4646, 952.4799, 957.4673, 961.4901, 962.4866, 967.4440, 969.4496, 972.4781, 974.5051, 975.4521, 978.4772, 979.4924,
  983.4706, 985.6071, 991.4533, 993.5267, 995.5177, 999.4602, 1001.4565, 1003.5043, 1007.5638, 1012.5004, 1014.5331, 1018.5130, 1022.5398, 1023.5525, 1028.5991, 1030.5259, 1035.5314, 1037.5145, 1042.5243, 1045.5603, 1069.4846, 1075.5515, 1092.6041, 1106.5313,
 1109.5087, 1111.5457, 1113.5419, 1115.5394, 1118.5659, 1121.5419, 1131.5602, 1138.5428, 1149.5912, 1155.5768, 1157.5907, 1158.6328, 1163.6145, 1173.6122, 1177.6130, 1179.5918, 1180.6001, 1181.6368, 1183.6030, 1187.6376, 1192.6014, 1193.5928, 1199.6785, 1206.60666,
   1215.6306, 1226.5839, 1227.6051, 1231.6115, 1232.6251, 1233.6230, 1234.6500, 1235.6155, 1248.6078, 1250.6483, 1254.6526, 1255.6036,
  1256.6123, 1268.6208, 1271.6423, 1276.6179, 1277.6350, 1289.6449, 1292.6322, 1294.6362, 1295.6366, 1300.5895, 1303.6643, 1305.6523, 1307.6600, 1308.6443, 1315.6364, 1320.6128, 1321.6134, 1323.6320, 1325.6456, 1331.6674, 1332.6602, 1333.2076, 1334.6744, 1336.6710,
  1337.6279, 1338.6300, 1338.6300, 1345.6146, 1347.6653, 1349.6800, 1349.6827, 1354.6820, 1355.6964, 1359.7053, 1360.6173, 1361.6373, 1365.6752, 1375.6670, 1377.6776, 1382.6367, 1383.6619, 1393.6727, 1400.6235, 1409.7107, 1411.6742, 1427.7725, 1431.7605, 1432.6987,
  1434.7190, 1449.7479, 1466.6953, 1473.7905, 1475.7498, 1478.7303, 1479.7468, 1485.7531, 1486.7472, 1493.7345, 1495.7502, 1500.7242, 1505.8511, 1509.6786, 1520.7347, 1522.7239, 1523.7567, 1525.7864, 1527.8068, 1532.7472, 1537.7886, 1539.7711, 1549.7833, 1555.8657,
   1558.8440, 1559.8573, 1568.7592, 1570.7814, 1578.7899, 1606.8213, 1615.8425, 1619.7972, 1621.7831, 1628.8156, 1630.8202, 1631.8217,
 1639.9263, 1647.8730, 1649.8650, 1650.8523, 1658.8206, 1659.8125, 1661.8284, 1663.7981, 1665.8070, 1669.8174, 1677.8353, 1679.9403, 1680.8076, 1682.7780, 1696.8055, 1697.7845, 1698.7950, 1707.7931, 1709.8029, 1710.8878, 1712.9166, 1716.8563, 1725.8188, 1727.8683,
  1730.8236, 1731.8221, 1742.8798, 1746.1482, 1749.8406, 1751.8657, 1756.8782, 1757.8225, 1763.8152, 1765.7922, 1766.8105, 1768.8596, 1769.4275, 1770.4087, 1773.8615, 1774.8795, 1775.0302, 1783.8599, 1785.8483, 1786.8871, 1790.8822, 1792.7894, 1801.9315, 1808.8663,
 1824.8685, 1830.8608, 1849.8231, 1851.8430, 1867.9100, 1868.9441, 1870.9304, 1880.9020, 1884.9191, 1908.8989, 1914.9821, 1916.9882, 1920.9862, 1932.9813, 1934.9822, 1947.0288, 1958.9543, 1994.8763, 2011.9012, 2013.8700, 2020.9592, 2025.5920, 2042.0568, 2047.0238, 2047.9805, 2049.9497, 2052.9905, 2053.9851, 2058.9988, 2060.0400, 2060.0405, 2055.0427, 2066.0137, 2066.9895, 2067.9763, 2068.9128, 2070.8792, 2074.8860, 2082.0293, 2084.8977, 2086.8872, 2087.8835, 2090.8708, 2092.8674, 2093.8711, 2096.9836, 2097.9961, 2100.8787,
  2101.8999, 2103.9092, 2107.8730, 2119.9924, 2122.9397, 2136.9133, 2211.1047, 2217.9368, 2225.1243, 2232.0229, 2233.0840, 2238.1050,
 2250.0259, 2257.9934, 2262.9368, 2263.9700, 2273.0264, 2277.9500, 2283.1741, 2290.9570, 2321.9558, 2323.9670, 2324.9824, 2335.9763, 2339.9456, 2343.0320, 2349.9844, 2352.0308, 2355.0315, 2358.0854, 2368.0815, 2369.0588, 2378.0020, 2379.0002, 2380.0007, 2381.9963,
 2383.0444, 2383.9822, 2393.0020, 2394.0181, 2400.0771, 2405.8879, 2414.1050, 2417.0933, 2421.0769, 2422.0593, 2426.0476, 2430.0947, 2432.0962, 2435.0254, 2438.0706, 2444.0901, 2451.0278, 2459.9802, 2461.0254, 2501.2520, 2528.1902, 2543.2092, 2564.1965, 2705.2144, 2717.1655, 2834.2925, 2888.2483, 2904.4053, 3130.4312, 3291.4875, 3312.3765, 3451.6833, 3454.6270
                                                 Score: 20
                                                                                 Expect: 2.5e+002 Matches: 8
  NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 7 OS=Bos taurus GN=NDUFB7 PE=1 SV=2
No match to: 713.4400, 713.4415, 724.3446, 728.2467, 730.2754, 732.2383, 734.2729, 735.3820, 736.3320, 740.2330, 743.2514, 748.2947, 750.2650, 756.4777, 764.3574, 765.3959, 768.3784, 772.4155, 774.3952, 778.4551, 780.3343, 782.3223, 783.3115, 787.2390, 791.2662, 802.4609, 805.3347, 806.4342, 807.3921, 808.4378, 812.4002, 814.4128, 820.4252, 828.3922, 830.3668, 834.3623, 837.3794,
  840.3857, 842.5100, 845.4155, 851.3846, 856.5103, 865.3634, 869.4703, 870.5254, 871.4965, 872.6990, 888.3988, 891.4706, 893.9500, 894.4534, 897.0277, 905.4637, 911.4314, 912.4475, 913.5080, 913.5100, 918.5267, 925.4804, 930.5015, 933.4662, 935.4675, 943.4757,
 951.4646, 952.4799, 957.4673, 961.4901, 962.4866, 967.4440, 969.4496, 972.4781, 974.5051, 975.4521, 977.4406, 978.4772, 979.4924, 983.4706, 985.6071, 991.4533, 993.5267, 999.4602, 1001.4565, 1001.5621, 1003.5043, 1007.5638, 1012.5004, 1014.5331, 1018.5130, 1022.5398, 1023.5525, 1028.5991, 1030.5259, 1035.5314, 1036.5333, 1037.5145, 1040.5127, 1042.5243, 1045.5603, 1060.5398, 1069.4846,
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1075.5515, 1092.6041, 1106.5313, 1109.5087, 1111.5457, 1113.5419, 1115.5394, 1118.5659, 1121.5419, 1122.5701, 1131.5602, 1138.5428, 1149.5912, 1155.5768, 1157.5907, 1158.6328, 1163.6145, 1173.6122, 1177.6130, 1178.6060, 1179.5918, 1180.6001, 1181.6368, 1183.6030,
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  1234.6500, 1235.6155, 1248.6078, 1250.6483, 1254.6526, 1255.6036, 1256.6123, 1268.6208, 1271.6423, 1276.6179, 1277.6350, 1289.6449,
   1292.6322, 1294.6362, 1295.6366, 1300.5895, 1303.6643, 1305.6523, 1307.6600, 1308.6443, 1310.6051, 1315.6364, 1320.6128, 1321.6134,
  1323.6320, 1325.6456, 1331.6674, 1332.6602, 1333.2076, 1334.6744, 1336.6710, 1337.6279, 1338.6300, 1338.6300, 1345.6146, 1347.6653, 1349.6800, 1349.6827, 1355.6964, 1359.7053, 1360.6173, 1361.6373, 1365.6752, 1371.6718, 1375.6670, 1377.6776, 1382.6367, 1383.6619,
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  1522.7239, 1523.7567, 1525.7864, 1527.8068, 1532.7472, 1537.7886, 1539.7711, 1549.7833, 1555.8657, 1558.8440, 1559.8573, 1568.7592,
  1570.7814, 1578.7899, 1606.8213, 1615.8425, 1619.7972, 1621.7831, 1628.8156, 1630.8202, 1631.8217, 1639.9263, 1644.8083, 1647.8730, 1649.8650, 1650.8523, 1658.8206, 1659.8125, 1661.8284, 1663.7981, 1665.8070, 1669.8174, 1677.8353, 1679.9403, 1680.8076, 1682.7780,
  1696.8055, 1698.7950, 1707.7931, 1709.8029, 1710.8878, 1712.9166, 1716.8563, 1725.8188, 1727.8683, 1730.8236, 1731.8221, 1742.8798, 1746.1482, 1749.8406, 1751.8657, 1756.8782, 1757.8225, 1763.8152, 1765.7922, 1766.8105, 1768.8596, 1769.4275, 1770.4087, 1773.8615,
  1774.8795, 1775.0302, 1783.8599, 1785.8483, 1786.8871, 1790.8822, 1792.7894, 1801.9315, 1804.9026, 1808.8663, 1824.8685, 1830.8608, 1849.8231, 1851.8430, 1867.9100, 1868.9441, 1870.9304, 1880.9020, 1884.9191, 1908.8989, 1914.9821, 1916.9882, 1920.9862, 1930.9827,
  1932.9813, 1934.9822, 1947.0288, 1958.9543, 1994.8763, 2011.9012, 2013.8700, 2020.9592, 2025.5920, 2042.0568, 2047.0238, 2047.9805, 2049.9497, 2052.9905, 2053.9851, 2058.9988, 2060.0400, 2060.0405, 2065.0427, 2066.0137, 2066.9895, 2067.9763, 2068.9128, 2070.8792,
   2074.8860, 2082.0293, 2084.8977, 2086.8872, 2087.8835, 2090.8708, 2092.8674, 2093.8711, 2096.9836, 2097.9961, 2100.8787, 2101.8999,
  2103.9092, 2107.8730, 2119.9924, 2122.9397, 2136.9133, 2211.1047, 2217.9368, 2225.1243, 2233.0840, 2238.1050, 2250.0259, 2257.9934, 2262.9368, 2263.9700, 2273.0264, 2277.9500, 2290.9570, 2307.9631, 2321.9558, 2323.9670, 2324.9824, 2335.9763, 2339.9456, 2343.0320,
  2349.9844, 2352.0308, 2355.0315, 2368.0815, 2369.0588, 2378.0020, 2379.0002, 2380.0007, 2381.9963, 2383.0444, 2383.9822, 2393.0020, 2394.0181, 2398.0447, 2400.0771, 2405.0879, 2414.1050, 2417.0933, 2421.0769, 2422.0593, 2426.0476, 2428.0725, 2430.0947, 2432.0962,
  2435.0254, 2438.0706, 2444.0901, 2451.0278, 2459.9802, 2461.0254, 2501.2520, 2528.1902, 2543.2092, 2564.1965, 2705.2144, 2717.1655, 2834.2925, 2888.2483, 2904.4053, 3130.4312, 3291.4875, 3312.3765, 3451.6833, 3454.6270
  F1N1U9 Mass: 64259 Score: 20
                                                                                   Expect: 2.5e+002 Matches: 20
  Uncharacterized protein OS=Bos taurus PE=4 SV=2
   Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide
                                                  968.4577 -15.85
                                                                                       456 - 463 0 ---
                          968.4423
                                                                                                                                     K.SHFSAHOR.I
   969.4496
                          978.4852
                                                  978.4995 -14.69
                                                                                        272 - 279
                                                                                                                                     K.THLSTHQR.I
 1018.5130 1017.5057 1017.4920 13.5 96 - 103 0 --- R.FTNAFYQK.L 1060.5398 1059.5325 1059.5574 -23.44 160 - 167 0 --- K.EHLIQHQR.T
1060.5398 1059.5325 1059.5574 -23.44 160 - 167 0 --- K.EHLIQHQR.T

1113.5419 1112.5346 1112.5107 21.5 44 - 52 0 --- K.EHLIQHQR.T

1192.6014 1191.5941 1191.5918 1.99 24 - 33 1 --- K.RLIGESCK.D

1216.6482 1215.6409 1215.6546 -11.26 414 - 422 1 --- K.RLIGESCK.D

1332.6602 1331.6529 1331.6517 0.93 516 - 526 1 --- K.VHITRMHTGEK.N

1432.6987 1431.6914 1431.7153 -16.71 328 - 339 2 --- K.HCAHQKTHTGKK.L

1486.7472 1485.7399 1485.7688 -19.44 211 - 223 1 --- K.TALFNCMRTGTK.E

1539.7711 1538.7638 1538.7365 17.8 112 - 123 2 --- K.TALFNCMRTGTK.E

1539.7711 1538.7638 1538.7365 17.8 112 - 123 2 --- R.THKEEKFYQSDK.Y

1697.7845 1696.7772 1696.7726 2.71 25 - 38 1 --- R.LLTGESCKDNEFR.E

1707.7931 1706.7858 1706.7869 -0.60 196 - 210 1 --- R.THMEVNLYKCNEGGK.T

1773.8615 1772.8542 1772.8549 -0.40 44 - 58 2 --- K.TALFNCMRTGTKEK.C + Oxidation (M)

1804.9026 1803.8953 1803.8978 -1.35 258 - 271 2 --- K.LYKCNEFQKTFAQK.T

2233.0840 2232.0767 2232.0382 17.3 220 - 237 1 --- K.AHQRIHTGEKPYECSEYK.K

2307.9631 2306.9558 2306.9606 -2.07 280 - 298 0 --- R.INTGERPYECCEGGTFSQK.S

2421.0769 2420.0696 2420.0307 16.1 34 - 52 2 --- K.EKCPDINECALSVKNLSQSSAHTVHQK.T

No match to: 713.4400, 713.4415, 724.3446, 728.2467, 730.2754, 732.2383, 734.2729, 735.3820, 736.33
 3130.4312 3129.4239 3129.4971 -23.40 57 - 83 2 --- K.EKCPLNECALSVKNLSQSSAHTVHQK.T

No match to: 713.4415, 724.3446, 728.2467, 730.2754, 732.2383, 734.2729, 735.3820, 736.3320, 740.2330, 743.2514, 748.2947, 750.2650, 756.4777, 764.3574, 765.3959, 768.3784, 772.4155, 774.3952, 778.4551, 780.3343, 782.3223, 783.3115, 787.2390, 791.2662, 802.4609, 805.3347, 806.4342, 807.3921, 808.4378, 812.4002, 814.4128, 820.4252, 828.3922, 830.3668, 834.3623, 837.3794, 840.3857, 842.5100, 845.4155, 851.3846, 856.5103, 865.3634, 869.4703, 870.5254, 871.4965, 872.6990, 888.3988, 891.4706, 893.9500, 843.4757, 951.4646, 952.4799, 957.4673, 961.4901, 962.4866, 967.4440, 972.4781, 974.5051, 975.4521, 977.4406, 978.4772, 983.4706, 985.6071, 991.4533, 993.5267, 995.5177, 999.4602, 1001.4565, 1001.5621, 1003.5043, 1007.5638, 1012.5004, 1014.5331, 1022.5398, 1065.5313, 1109.5087, 1111.5457, 1115.5394, 1118.5659, 1121.5419, 1122.5701, 1131.5602, 1138.5428, 1149.5912, 1155.5768, 1157.5907, 1158.6328, 1163.6145, 1173.6122, 1177.6130, 1178.6060, 1179.5918, 1180.6001, 1181.6368, 1183.6030, 1187.6376, 1193.5928, 1199.6078, 1293.6675, 1224.5675, 1224.5675, 1224.5675, 1248.6078, 1225.5678, 1157.5904, 1199.6785, 1224.66666, 1274.63676, 1193.5928, 1195.5924, 1199.6785, 1224.66666, 1274.63676, 1193.5928, 1195.5924, 1199.6785, 1224.66666, 1274.63676, 1193.5928, 1295.66781, 1294.6078, 1224.6675, 1224.6675, 1226.5688, 1226.5688, 1226.5688, 1226.5688, 1226.5688, 1226.5688, 1226.5688, 1226.5688, 1226.5688, 1226.5688, 1226.5688, 1226.5688, 1226.5688, 1226.5688, 1226.5688, 1226.5688, 1226.5688, 1226.5688, 1226.5688, 1226.5688, 1226.5688, 1226.5688, 1226.5688, 1226.5688, 1226.5688, 1226.5688, 1226.5688, 1226.5688, 1226.5688, 1226.5688, 1226.5688, 1226.5688, 1226.5688, 1226.5688, 1226.5688, 1226.5688, 1226.5688, 1226.5688, 1226.5688, 1226.5688, 1226.5688, 1226.5688, 1226.5888, 1226.5688, 1226.5688, 1226.5888, 1226.5688, 1226.5888, 1226.5688, 1226.5888, 1226.5688, 1226.5888, 1226.5888, 1226.5888, 1226.5888, 1226.5888, 1226.5888, 1226.5888, 1226.5888, 1226.588
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  1495.7502, 1503.7690, 1505.8511, 1509.6786, 1520.7347, 1522.7239, 1523.7567, 1525.7864, 1527.8068, 1532.7472, 1537.7886, 1549.7833, 1555.8657, 1558.8440, 1559.8573, 1568.7592, 1570.7814, 1578.7899, 1606.8213, 1615.8425, 1619.7972, 1621.7831, 1628.8156, 1630.8202,
   1631.8217, 1639.9263, 1644.8083, 1647.8730, 1649.8650, 1650.8523, 1658.8206, 1659.8125, 1661.8284, 1663.7981, 1665.8070, 1669.8174,
  1677.8353, 1679.9403, 1680.8076, 1682.7780, 1696.8055, 1698.7950, 1709.8029, 1710.8878, 1712.9166, 1716.8563, 1725.8188, 1727.8683, 1730.8236, 1731.8221, 1742.8798, 1746.1482, 1749.8406, 1751.8657, 1756.8782, 1757.8225, 1763.8152, 1765.7922, 1766.8105, 1768.8596,
  1769.4275, 1770.4087, 1774.8795, 1775.0302, 1783.8599, 1785.8483, 1786.8871, 1790.8822, 1792.7894, 1801.9315, 1808.8663, 1824.8685, 1830.8608, 1849.8231, 1851.8430, 1867.9100, 1868.9441, 1870.9304, 1880.9020, 1884.9191, 1908.8989, 1914.9821, 1916.9882, 1920.9862,
  1930.9827, 1932.9813, 1934.9822, 1947.0288, 1958.9543, 1994.8763, 2011.9012, 2013.8700, 2020.9592, 2025.5920, 2042.0568, 2047.0238, 2047.9805, 2049.9497, 2052.9905, 2053.9851, 2058.9988, 2060.0400, 2060.0405, 2065.0427, 2066.0137, 2066.9895, 2067.9763, 2068.9128,
  2070.8792, 2074.8860, 2082.0293, 2084.8977, 2086.8872, 2087.8835, 2090.8708, 2092.8674, 2093.8711, 2096.9836, 2097.9961, 2100.8787,
  2101.8999, 2103.9092, 2107.8730, 2119.9924, 2122.9397, 2136.9133, 2211.1047, 2217.9368, 2225.1243, 2232.0229, 2238.1050, 2250.0259,
  2257.9934, 2262.9368, 2263.9700, 2273.0264, 2277.9500, 2283.1741, 2290.9570, 2321.9558, 2323.9670, 2324.9824, 2335.9763, 2339.9456,
  2343.0320, 2349.9844, 2352.0308, 2355.0315, 2358.0854, 2368.0815, 2369.0588, 2378.0020, 2379.0002, 2380.0007, 2381.9963, 2383.0444, 2383.9822, 2393.0020, 2394.0181, 2398.0447, 2400.0771, 2405.0879, 2414.1050, 2417.0933, 2422.0593, 2426.0476, 2428.0725, 2430.0947,
  2432.0962, 2435.0254, 2438.0706, 2444.0901, 2451.0278, 2459.9802, 2461.0254, 2501.2520, 2528.1902, 2543.2092, 2564.1965, 2705.2144,
  2717.1655, 2834.2925, 2888.2483, 2904.4053, 3291.4875, 3312.3765, 3451.6833, 3454.6270
                                                    Score: 20
                                                                                   Expect: 2.6e+002 Matches: 22
  F1N7L8
                     Mass: 63126
  Uncharacterized protein OS=Bos taurus GN=BBOF1 PE=4 SV=1

        ppm
        Start
        End Miss Ions
        Peptide

        -5.15
        248 - 254
        0 ---
        K.EADALQ

   Observed
                                                 Mr(calc)
                         Mr (expt)
                          773.3879
                                                                                                                                     K.EADALQK.N
                                                  773.3919
                          801.4537
                                                  801.4708 -21.39
                                                                                        121 - 126
                                                                                                                                      K.EKLERK.F
   802.4609
                                                  805.4116 19.0 347 - 352 1 ---
                                                                                                                                     K.EMNRIK.K + Oxidation (M)
   806.4342
                          805.4269
                                                                         14.4 463 - 469 0 --- K.MNGFVPR.K
8.53 347 - 353 2 --- K.EMNRIKK.L
12.79 407 - 413 1 --- R.MEYPKIR.T + Oxidation (M)
                          819.4180
   820 4252
                                                  819.4061
                          917.5195
                                                  917.5116
   918.5267
                          951.4726
                                                  951.4848 -12.79
                                                                                       30 - 37 0 --- K.LEESVLER.A
399 - 406 1 --- K.MREACVGR.M
   974.5051
                          973.4978
                                                  973.5080 -10.48
   978.4772
                         977.4700
                                                 977.4535
                                                                        16.8
 1001.5621 1000.5548 1000.5739 -19.08 337 - 344 0 --- K.LQQLLQMK.D
```

```
1118.5659 1117.5586 1117.5615 -2.54 114 - 122 2 --- K.EKAQEEKEK.L
1177.6130 1176.6057 1176.6060 -0.24 144 - 153 0 --- K.EIGMIQTELK.T + Oxidation (M)
1183.6030 1182.5957 1182.5954 0.24 83 - 92 0 --- K.DTMSVLNYLK.K
1195.5924 1194.5851 1194.6105 -21.25 57 - 65 2 --- R.IEYRDTSRR.L
1216.6482 1215.6409 1215.6360 4.07 38 - 48 1 --- R.AKANASLWEAR.L
1231.6115 1230.6042 1230.6204 -13.14 248 - 258 1 --- K.EADALQKNSQK.L
1359.7053 1358.6980 1358.6677 22.3 94 - 104 1 --- K.QDEKDNLIEK.L
1479.7468 1478.7395 1478.7473 -5.25 298 - 310 0 --- K.VVSLENALVCMTK.E + Oxidation (M)
1495.7502 1494.7429 1494.7249 12.1 69 - 79 2 --- R.CNEELKRQQYK.M
1790.8822 1789.8749 1789.9178 -23.97 337 - 350 2 --- K.LQQLLQMKDKEMNR.I + Oxidation (M)
1808.8663 1807.8590 1807.8563 1.49 127 - 141 0 --- K.FTMQVSELEGQFHQK.A
1824.8685 1823.8612 1823.8512 5.47 127 - 141 0 --- K.FTMQVSELEGGFHQK.A + Oxidation (M)
2394.0181 2393.0108 2393.0554 -18.61 414 - 434 1 --- R.TFDGREHSTNSVNQDLMEADK.W
No match to: 713.4400, 713.4415, 724.3446, 728.2467, 730.2754, 732.2383, 734.2729, 735.3820, 736.3
  No match to: 713.4400, 713.4415, 724.3446, 728.2467, 730.2754, 732.2383, 734.2729, 735.3820, 736.3320, 740.2330, 743.2514,
  748.2947, 750.2650, 756.4777, 764.3574, 765.3959, 768.3784, 772.4155, 778.4551, 780.3343, 782.3223, 783.3115, 787.2390, 791.2662, 805.3347, 807.3921, 808.4378, 812.4002, 814.4128, 828.3922, 830.3668, 834.3623, 837.3794, 840.3857, 842.5100, 845.4155, 851.3846,
  856.5103, 865.3634, 869.4703, 870.5254, 871.4965, 872.6990, 888.3988, 891.4706, 893.9500, 894.4534, 897.0277, 905.4637, 911.4314,
  912.4475, 913.5080, 913.5100, 925.4804, 927.4970, 930.5015, 933.4662, 935.4675, 943.4757, 951.4646, 957.4673, 961.4901, 962.4866, 967.4440, 969.4496, 972.4781, 975.4521, 977.4406, 979.4924, 983.4706, 985.6071, 991.4533, 993.5267, 995.5177, 999.4602, 1001.4565
  1003.5043, 1007.5638, 1012.5004, 1014.5331, 1018.5130, 1022.5398, 1023.5525, 1028.5991, 1030.5259, 1035.5314, 1036.5333, 1037.5145, 1040.5127, 1042.5243, 1045.5603, 1060.5398, 1069.4846, 1075.5515, 1092.6041, 1106.5313, 1109.5087, 1111.5457, 1113.5419, 1115.5394,
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  1234.6500, 1235.6155, 1248.6078, 1250.6483, 1254.6526, 1255.6036, 1256.6123, 1268.6208, 1271.6423, 1276.6179, 1277.6350, 1289.6449, 1292.6322, 1294.6362, 1295.6366, 1300.5895, 1303.6643, 1305.6523, 1307.6600, 1308.6443, 1310.6051, 1315.6364, 1320.6128, 1321.6134,
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  1870.9304, 1880.9020, 1884.9191, 1908.8989, 1914.9821, 1916.9882, 1920.9862, 1930.9827, 1932.9813, 1934.9822, 1947.0288, 1958.9543, 1994.8763, 2011.9012, 2013.8700, 2020.9592, 2025.5920, 2042.0568, 2047.0238, 2047.9805, 2049.9497, 2052.9905, 2053.9851, 2058.9988,
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  2087.8835, 2090.8708, 2092.8674, 2093.8711, 2096.9836, 2097.9961, 2100.8787, 2101.8999, 2103.9092, 2107.8730, 2119.9924, 2122.9397,
   2136.9133, 2211.1047, 2217.9368, 2225.1243, 2232.0229, 2233.0840, 2238.1050, 2250.0259, 2257.9934, 2262.9368, 2263.9700, 2273.0264,
  2277.9500, 2283.1741, 2290.9570, 2307.9631, 2321.9558, 2323.9670, 2324.9824, 2335.9763, 2339.9456, 2343.0320, 2349.9844, 2352.0308, 2355.0315, 2358.0854, 2369.0588, 2378.0020, 2379.0002, 2380.0007, 2381.9963, 2383.0444, 2383.9822, 2393.0020, 2398.0447,
  2400.0771, 2405.0879, 2414.1050, 2417.0933, 2421.0769, 2422.0593, 2426.0476, 2428.0725, 2430.0947, 2432.0962, 2435.0254, 2438.0706, 2444.0901, 2451.0278, 2459.9802, 2461.0254, 2501.2520, 2528.1902, 2543.2092, 2564.1965, 2705.2144, 2717.1655, 2834.2925, 2888.2483, 2904.4053, 3130.4312, 3291.4875, 3312.3765, 3451.6833, 3454.6270
                   Mass: 36179 Score: 19
                                                                                           Expect: 2.8e+002 Matches: 13
  G3N2J6
  Uncharacterized protein OS=Bos taurus GN=TNIP3 PE=4 SV=1

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss
        Ions
        Peptide

        782.3223
        781.3150
        781.3098
        6.59
        221 - 226
        0
        ----
        K.ACQMEK.E + Oxidation (M)

        905.4637
        904.4564
        904.4614
        -5.50
        55 - 62
        1
        ----
        K.ASKLDSABER.F

        1183.6030
        1182.5957
        1182.6066
        -9.23
        41 - 49
        2
        ----
        R.SMKELYERK.V

        1268.6208
        1267.6135
        1267.6408
        -21.51
        97 - 107
        0
        ----
        K.ESLINGELHELK.I

        1449.7479
        1448.7406
        1448.7115
        20.1
        215 - 266
        1
        ----
        R.LNSQIKACQMEK.E

        1525.7864
        1524.7791
        1524.7783
        0.52
        95 - 107
        1
        ----
        R.ESLINGELHELK.I

        1801.9315
        1800.9242
        1800.9080
        9.01
        251 - 266
        0
        ----
        R.ESPFPHCRTSEPLRR.A

        1914.9821
        1913.9748
        1913.9806
        -3.04
        199 - 214
        0
        ----
        K.EELQQIIQTSQSQLNR.L

        2058.9988<
   Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide
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Mass: 20552
                                                                   Score: 19
                                                                                                       Expect: 2.8e+002 Matches: 9
  Uncharacterized protein OS=Bos taurus GN=ZAR1 PE=4 SV=1
   Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide
 1035.5314 1034.5241 1034.5219
                                                                                              2.18 24 - 33 0 --- R.CLYPAAAAAK.G
4.18 143 - 152 1 --- K.RPHRODLCGR.C
 1294.6362 1293.6289 1293.6473 -14.18
1294.6362 1293.6289 1293.6473 -14.18 143 - 152 1 --- K.RPHRQDLCGR.C
1347.6653 1346.6580 1346.6289 21.6 157 - 167 1 --- K.RLSCDSTFSFK.Y
1532.7472 1531.7399 1531.7453 -3.52 155 - 167 2 --- K.RLSCDSTFSFK.Y
1680.8076 1679.8003 1679.7912 5.42 99 - 110 2 --- K.VYYKQFCRTCQK.S
1870.9304 1869.9231 1869.9493 -13.98 138 - 152 2 --- R.HVDPKRPHRQDLCGR.C
2383.0444 2382.0371 2382.0549 -7.45 117 - 135 2 --- R.VEDITCQNCKQTRCSCPVK.L
2432.0962 2431.0889 2431.1009 -4.91 111 - 129 2 --- K.SYNYKVEDITCQNCKQTR.C
2564.1965 2563.1892 2563.1254 24.9 107 - 126 2 --- R.TCQKSYNPYRVEDITCQNCKQT.C

No match to: 713.4400, 713.4415, 724.3446, 728.2467, 730.2754, 732.2383, 734.2729, 735.3820, 736.3320, 740.2330, 743.2514, 748.2947, 750.2650, 756.4777, 764.3574, 765.3959, 768.3784, 772.4155, 774.3952, 778.4551, 780.3343, 782.3223, 783.3115, 787.2390, 791.2662, 802.4609, 805.3347, 806.4342, 807.3921, 808.4378, 812.4002, 814.4128, 820.4525, 828.3922, 830.3668, 894.3623, 837.3790, 590.
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 <u>Q17Q91</u> Mass: 10021
                                                               Score: 19
                                                                                                    Expect: 2.9e+002 Matches: 7
  Coiled-coil-helix-coiled-coil-helix domain-containing protein 7 OS=Bos taurus GN=CHCHD7 PE=3 SV=1
748.2947, 750.2650, 756.4777, 764.3574, 765.3959, 768.3784, 772.4155, 774.3952, 778.4551, 780.3343, 782.3223, 783.3115, 787.2390, 791.2662, 802.4609, 805.3347, 806.4342, 807.3921, 808.4378, 812.4002, 814.4128, 820.4252, 828.3922, 830.3668, 834.3623, 837.3794,
  840.3857, 842.5100, 845.4155, 851.3846, 856.5103, 865.3634, 869.4703, 870.5254, 871.4965, 872.6990, 888.3988, 891.4706, 893.9500, 894.4534, 897.0277, 905.4637, 911.4314, 912.4475, 913.5080, 913.5100, 918.5267, 925.4804, 927.4970, 930.5015, 933.4662, 935.4675, 943.4757, 951.4646, 952.4799, 957.4673, 961.4901, 962.4866, 967.4440, 969.4496, 972.4781, 974.5051, 975.4521, 977.4406, 978.4772,
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  1325.6456, 1331.6674, 1332.6602, 1333.2076, 1334.6744, 1337.6279, 1338.6300, 1338.6300, 1345.6146, 1347.6653, 1349.6800, 1349.6827, 1354.6820, 1355.6964, 1359.7053, 1360.6173, 1361.6373, 1365.6752, 1371.6718, 1375.6670, 1377.6776, 1382.6367, 1383.6619, 1387.6700,
  1393.6727, 1400.6235, 1409.7107, 1411.6742, 1427.7725, 1431.7605, 1432.6987, 1434.7190, 1449.7479, 1466.6953, 1473.7905, 1475.7498, 1478.7303, 1479.7468, 1485.7531, 1486.7472, 1493.7345, 1500.7242, 1503.7690, 1505.8511, 1509.6786, 1520.7347, 1522.7239, 1523.7567,
  1525.7864, 1527.8068, 1532.7472, 1537.7886, 1539.7711, 1549.7833, 1555.8657, 1558.8440, 1559.8573, 1568.7592, 1570.7814, 1578.7899, 1606.8213, 1615.8425, 1619.7972, 1621.7831, 1628.8156, 1630.8202, 1631.8217, 1639.9263, 1644.8083, 1647.8730, 1649.8650, 1650.8523,
  1658.8206, 1659.8125, 1661.8284, 1663.7981, 1665.8070, 1669.8174, 1677.8353, 1679.9403, 1680.8076, 1682.7780, 1696.8055, 1697.7845,
 1698.7950, 1707.7931, 1709.8029, 1710.8878, 1712.9166, 1716.8563, 1725.8188, 1727.8683, 1730.8236, 1731.8221, 1742.8798, 1746.1482, 1749.8406, 1751.8657, 1756.8782, 1757.8225, 1763.8152, 1765.7922, 1766.8105, 1768.8596, 1769.4275, 1770.4087, 1773.8615, 1774.8795,
 1743.8406, 1761.8657, 1765.8762, 1765.8762, 1765.8152, 1765.8152, 1765.7922, 1765.8105, 1768.8596, 1769.4275, 1770.44087, 1773.8615, 1774.8795, 1775.0302, 1783.8599, 1785.8483, 1786.8871, 1790.8822, 1792.7894, 1801.9315, 1804.9026, 1808.8663, 1824.8685, 1830.8608, 1849.8231, 1851.8430, 1867.9100, 1868.9441, 1870.9304, 1880.9020, 1884.9191, 1908.8989, 1914.9821, 1916.9882, 1920.9862, 1930.9827, 1932.9813, 1934.9822, 1947.0288, 1958.9543, 1994.8763, 2011.9012, 2013.8700, 2020.9592, 2025.9592, 2042.0568, 2047.0238, 2047.9805, 2049.9497, 2052.9905, 2053.9851, 2058.9988, 2060.0400, 2060.0405, 2065.0427, 2066.0137, 2066.9895, 2067.9763, 2068.9128, 2070.8792, 2074.8860, 2082.0293, 2084.8977, 2086.8872, 2087.8835, 2090.8708, 2092.8674, 2093.8711, 2096.9836, 2097.9961, 2100.8787, 2101.8999, 2103.9092,
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  2705.2144, 2717.1655, 2834.2925, 2904.4053, 3130.4312, 3291.4875, 3312.3765, 3451.6833, 3454.6270
                          Mass: 17012 Score: 19
                                                                                                       Expect: 3e+002 Matches: 8
  Phospholipase A(2) OS=Bos taurus GN=PLA2G2A PE=2 SV=1
   Observed

        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss Ions
        Peptide

        806.3848
        806.3705
        17.8
        134 - 140
        0 ---
        R.NSLCT
```

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1023.5525 1022.5452 1022.5509 -5.51 121 - 128 2 --- R.NQKTYNKK.L
1037.5145 1036.5072 1036.5236 -15.83 74 - 82 1 --- K.LKHHGCGTK.F
1178.6060 1177.5987 1177.6026 -3.28 114 - 123 1 --- K.ALCFARNQK.T
1520.7347 1519.7274 1519.6984 19.1 93 - 105 1 --- R.GQITCADQGVCRR.I
1658.8206 1657.8133 1657.8358 -13.58 128 - 140 2 --- K.KLQYYRNSLCTGR.A
2058.9988 2057.9915 2058.0330 -20.15 76 - 92 2 --- K.HTGGGTKFINNYVSIRR.G
2834.2925 2833.2852 2833.3276 -14.95 31 - 57 2 --- K.HTGKGALLSYSAYGCYCGVSGGSPK.D

No match to: 713.4400, 713.4415, 724.3446, 728.2467, 730.2754, 732.2383, 734.2729, 735.3820, 736.3320, 740.2330, 743.2514,
748.2947, 750.2650, 756.4777, 764.3574, 765.3959, 768.3784, 772.4155, 774.3952, 778.4551, 780.3343, 782.3223, 783.3115, 787.2390,
791.2662, 802.4609, 805.3347, 806.4342, 808.4378, 812.4002, 814.4128, 820.4252, 828.3922, 830.3668, 834.3623, 837.3794, 840.3857,
842.5100, 845.4155, 851.3846, 856.5103, 865.3634, 869.4703. 870.5254, 871.4965, 871.4965, 872.6990, 888.3988, 891.4706. 893.9000, 894.4534.
 791.2662, 802.4609, 805.3347, 806.4342, 808.4378, 812.4002, 814.4128, 820.4252, 828.3922, 830.3668, 834.3623, 837.3794, 840.3857, 842.5100, 845.4155, 851.3846, 856.5103, 865.3634, 869.4703, 870.5254, 871.4965, 872.6990, 888.3988, 891.4706, 893.9500, 894.4534, 897.0277, 905.4637, 911.4314, 912.4475, 913.5080, 913.5100, 918.5267, 925.4804, 927.4970, 930.5015, 933.4662, 935.4675, 943.4757, 951.4646, 952.4799, 957.4673, 961.4901, 962.4866, 967.4440, 969.4496, 972.4781, 974.5051, 975.4521, 977.4406, 978.4772, 979.4924, 983.4706, 985.6071, 991.4533, 993.5267, 995.5177, 999.4602, 1001.4565, 1001.5621, 1003.5043, 1007.5638, 1012.5004, 1014.5331, 1018.5130, 1022.5398, 1028.5991, 1030.5259, 1035.5314, 1036.5333, 1040.5127, 1042.5243, 1045.5603, 1060.5398, 1069.4846, 1075.5515, 1092.6041, 1106.5313, 1109.5087, 1111.5457, 1113.5419, 1115.5394, 1118.5659, 1121.5419, 1122.5701, 1131.5602, 1138.5428, 1149.5912, 1155.5768, 1157.5907, 1158.6328, 1163.6145, 1173.6122, 1177.6130, 1179.5918, 1180.6001, 1181.6368, 1183.6030, 1187.6376, 1192.6014, 1102.5004, 1104.6708, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 1206.6014, 120
  1193.5928, 1195.5924, 1199.6785, 1206.6066, 1215.6306, 1216.6482, 1226.5839, 1227.6051, 1231.6115, 1232.6251, 1233.6230, 1234.6500, 1235.6155, 1248.6078, 1250.6483, 1254.6526, 1255.6036, 1256.6123, 1268.6208, 1271.6423, 1276.6179, 1277.6350, 1289.6449, 1292.6322, 1294.6362, 1295.6366, 1300.5895, 1303.6643, 1305.6523, 1307.6600, 1308.6443, 1310.6051, 1315.6364, 1320.6128, 1321.6134, 1323.6320,
  1325.6456, 1331.6674, 1332.6602, 1333.2076, 1334.6744, 1336.6710, 1337.6279, 1338.6300, 1338.6300, 1345.6146, 1347.6653, 1349.6800, 1349.6827, 1354.6820, 1355.6964, 1359.7053, 1360.6173, 1361.6373, 1365.6752, 1371.6718, 1375.6670, 1377.6776, 1382.6367, 1383.6619,
  1387.6700, 1393.6727, 1400.6235, 1409.7107, 1411.6742, 1427.7725, 1431.7605, 1432.6987, 1434.7190, 1449.7479, 1466.6953, 1473.7905, 1475.7498, 1478.7303, 1479.7468, 1485.7531, 1486.7472, 1493.7345, 1495.7502, 1500.7242, 1503.7690, 1505.8511, 1509.6786, 1522.7239,
  1523.7567, 1525.7864, 1527.8068, 1532.7472, 1537.7886, 1539.7711, 1549.7833, 1555.8657, 1558.8440, 1559.8573, 1568.7592, 1570.7814, 1578.7899, 1606.8213, 1615.8425, 1619.7972, 1621.7831, 1628.8156, 1630.8202, 1631.8217, 1639.9263, 1644.8083, 1647.8730, 1649.8650,
   1650.8523, 1659.8125, 1661.8284, 1663.7981, 1665.8070, 1669.8174, 1677.8353, 1679.9403, 1680.8076, 1682.7780, 1696.8055, 1697.7845,
  1698.7950, 1707.7931, 1709.8029, 1710.8878, 1712.9166, 1716.8563, 1725.8188, 1727.8683, 1730.8236, 1731.8221, 1742.8798, 1746.1482, 1749.8406, 1751.8657, 1756.8782, 1757.8225, 1763.8152, 1765.7922, 1766.8105, 1768.8596, 1769.4275, 1770.4087, 1773.8615, 1774.8795,
  1775.0302, 1783.8599, 1785.8483, 1786.8871, 1790.8822, 1792.7884, 1801.9315, 1804.9026, 1808.8663, 1824.8685, 1830.8608, 1849.8231, 1851.8430, 1867.9100, 1868.9441, 1870.9304, 1880.9020, 1884.9191, 1908.8989, 1914.9821, 1916.9882, 1920.9862, 1930.9827, 1932.9813,
  1934.9822, 1947.0288, 1958.9543, 1994.8763, 2011.9012, 2013.8700, 2020.9592, 2025.5920, 2042.0568, 2047.0238, 2047.9805, 2049.9497, 2052.9905, 2053.9851, 2060.0400, 2060.0405, 2065.0427, 2066.0137, 2066.9895, 2067.9763, 2068.9128, 2070.8792, 2074.8860, 2082.0293,
  2084.8977, 2086.8872, 2087.8835, 2090.8708, 2092.8674, 2093.8711, 2096.9836, 2097.9961, 2100.8787, 2101.8999, 2103.9092, 2107.8730, 2119.9924, 2122.9397, 2136.9133, 2211.1047, 2217.9368, 2225.1243, 2232.0229, 2233.0840, 2238.1050, 2250.0259, 2257.9934, 2262.9368,
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  2349.9844, 2352.0308, 2355.0315, 2358.0854, 2368.0815, 2369.0588, 2378.0020, 2379.0002, 2380.0007, 2381.9963, 2383.0444, 2383.9822, 2393.0020, 2394.0181, 2398.0447, 2400.0771, 2405.0879, 2414.1050, 2417.0933, 2421.0769, 2422.0593, 2426.0476, 2428.0725, 2430.0947,
  2432.0962, 2435.0254, 2438.0706, 2444.0901, 2451.0278, 2459.9802, 2461.0254, 2501.2520, 2528.1902, 2543.2092, 2564.1965, 2705.2144, 2717.1655, 2888.2483, 2904.4053, 3130.4312, 3291.4875, 3312.3765, 3451.6833, 3454.6270
  Q5KR49 Mass: 32732
                                                             Score: 19
                                                                                                  Expect: 3.1e+002 Matches: 14
  Tropomyosin alpha-1 chain OS=Bos taurus GN=TPM1 PE=2 SV=1
   Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide
                                                                                                         893.4461
                                                            893.4606 -16.29
  1022.5398 1021.5325 1021.5300 2.47
1022.5398 1021.5325 1021.5300 2.47 8 - 15 1 --- K.MQMLKLDK.E + Oxidation (M)
1109.5087 1108.5014 1108.4819 17.7 119 - 128 1 --- K.AADESERGMK.V + Oxidation (M)
1308.6443 1307.6370 1307.6106 20.2 234 - 244 1 --- K.AADESERGMK.V + Oxidation (M)
1332.6602 1331.6529 1331.6317 15.9 78 - 90 0 --- K.ATDEADVASLNR.R
1431.7605 1430.7532 1430.7365 11.7 129 - 140 2 --- K.VIESRAQKDEEK.M
1475.7498 1474.7425 1474.7701 -18.69 141 - 152 1 --- K.MEIQEIQLKEAK.H + Oxidation (M)
1549.7833 1548.7760 1548.7896 -8.74 232 - 244 2 --- K.LKEAETRAEFAER.S
1677.8353 1676.8280 1676.8151 7.68 119 - 133 2 --- K.AADESERGMKVIESR.A
1727.8683 1726.8610 1726.8849 -13.85 92 - 105 1 --- R.IQLVEEELDRAQER.L
1808.8663 1807.8590 1807.8257 18.4 113 - 128 2 --- K.LEAETRAEFAER.S
1908.8989 1907.8916 1907.9364 -23.45 249 - 264 1 --- K.LEKSIDDLEDELYAQK.L
2049.9497 2048.9424 2048.9724 -14.64 267 - 284 1 --- K.YKAISEELDHALNDMTSI.- 2066.0137 2065.0064 2064.9673 18.9 267 - 284 1 --- K.YKAISEELDHALNDMTSI.- + Oxidation (M)
 No match to: 713.4400, 713.4415, 724.3446, 728.2467, 730.2754, 732.2383, 734.2729, 735.3820, 736.3320, 740.2330, 743.2514, 748.2947, 750.2650, 756.4777, 764.3574, 765.3959, 768.3784, 772.4155, 774.3952, 778.4551, 780.3343, 782.3223, 783.3115, 787.2390, 791.2662, 802.4609, 805.3347, 806.4342, 807.3921, 808.4378, 812.4002, 814.4128, 820.4252, 828.3922, 830.3668, 834.3623, 837.3794, 840.3857, 842.5100, 845.4155, 851.3846, 856.5103, 865.3634, 869.4703, 870.5254, 871.4965, 872.6990, 888.3988, 891.4706, 893.9500,
  897.0277, 905.4637, 911.4314, 912.4475, 913.5080, 913.5100, 918.5267, 925.4804, 927.4970, 930.5015, 933.4662, 935.4675, 943.4757, 951.4646, 952.4799, 957.4673, 961.4901, 962.4866, 967.4440, 969.4496, 972.4781, 974.5051, 975.4521, 977.4406, 978.4772, 979.4924,
  983.4706, 985.6071, 991.4533, 993.5267, 995.5177, 999.4602, 1001.4565, 1001.5621, 1003.5043, 1007.5638, 1012.5004, 1014.5331, 1018.5130, 1023.5525, 1028.5991, 1030.5259, 1035.5314, 1036.5333, 1037.5145, 1040.5127, 1042.5243, 1045.5603, 1060.5398, 1069.4846, 1075.5515, 1092.6041, 1106.5313, 1111.5457, 1113.5419, 1115.5394, 1118.5659, 1121.5419, 1122.5701, 1131.5602, 1138.5428, 1149.5912,
  1155.5768, 1157.5907, 1158.6328, 1163.6145, 1173.6122, 1177.6130, 1178.6060, 1179.5918, 1180.6001, 1181.6368, 1183.6030, 1187.6376, 1192.6014, 1193.5928, 1195.5924, 1199.6785, 1206.6066, 1215.6306, 1216.6482, 1226.5839, 1227.6051, 1231.6115, 1232.6251, 1233.6230,
  1234.6500, 1235.6155, 1248.6078, 1250.6483, 1254.6526, 1255.6036, 1256.6123, 1268.6208, 1271.6423, 1276.6179, 1277.6350, 1289.6449, 1292.6322, 1294.6362, 1295.6366, 1300.5895, 1303.6643, 1305.6523, 1307.6600, 1310.6051, 1315.6364, 1320.6128, 1321.6134, 1323.6320,
  1325.6456, 1331.6674, 1333.2076, 1334.6744, 1336.6710, 1337.6279, 1338.6300, 1338.6300, 1345.6146, 1347.6653, 1349.6800, 1349.6827,
  1354.6820, 1355.6964, 1359.7053, 1360.6173, 1361.6373, 1365.6752, 1371.6718, 1375.6670, 1377.6776, 1382.6367, 1383.6619, 1387.6700, 1393.6727, 1400.6235, 1409.7107, 1411.6742, 1427.7725, 1432.6987, 1434.7190, 1449.7479, 1466.6953, 1473.7905, 1478.7303, 1479.7468,
  1485.7531, 1486.7472, 1493.7345, 1495.7502, 1500.7242, 1503.7690, 1505.8511, 1509.6786, 1520.7347, 1522.7239, 1523.7567, 1525.7864, 1527.8068, 1532.7472, 1537.7886, 1539.7711, 1555.8657, 1558.8440, 1559.8573, 1568.7592, 1570.7814, 1578.7899, 1606.8213, 1615.8425,
  1619.7972, 1621.7831, 1628.8156, 1630.8202, 1631.8217, 1639.9263, 1644.8083, 1647.8730, 1649.8650, 1650.8523, 1658.8206, 1659.8125, 1661.8284, 1663.7981, 1665.8070, 1669.8174, 1679.9403, 1680.8076, 1682.7780, 1696.8055, 1697.7845, 1698.7950, 1707.7931, 1709.8029,
  1710.8878, 1712.9166, 1716.8563, 1725.8188, 1730.8236, 1731.8221, 1742.8798, 1746.1482, 1749.8406, 1751.8657, 1756.8782, 1757.8225, 1763.8152, 1765.7922, 1766.8105, 1768.8596, 1769.4275, 1770.4087, 1773.8615, 1774.8795, 1775.0302, 1783.8599, 1785.8483, 1786.8871,
   1790.8822, 1792.7894, 1801.9315, 1804.9026, 1824.8685, 1830.8608, 1849.8231, 1851.8430, 1867.9100, 1868.9441, 1870.9304, 1880.9020,
  1884.9191, 1914.9821, 1916.9882, 1920.9862, 1930.9827, 1932.9813, 1934.9822, 1947.0288, 1958.9543, 1994.8763, 2011.9012, 2013.8700, 2020.9592, 2025.5920, 2042.0568, 2047.0238, 2047.9805, 2052.9905, 2053.9851, 2058.9988, 2060.0400, 2060.0405, 2065.0427, 2066.9895,
  2067.9763, 2068.9128, 2070.8792, 2074.8860, 2082.0293, 2084.8977, 2086.8872, 2087.8835, 2090.8708, 2092.8674, 2093.8711, 2096.9836, 2097.9961, 2100.8787, 2101.8999, 2103.9092, 2107.8730, 2119.9924, 2122.9397, 2136.9133, 2211.1047, 2217.9368, 2225.1243, 2232.0229,
  2233.0840, 2238.1050, 2250.0259, 2257.9934, 2262.9368, 2263.9700, 2273.0264, 2277.9500, 2283.1741, 2290.9570, 2307.9631, 2321.9558
  2323.9670, 2324.9824, 2335.9763, 2339.9456, 2343.0320, 2349.9844, 2352.0308, 2355.0315, 2358.0854, 2368.0815, 2369.0588, 2378.0020, 2379.0002, 2380.0007, 2381.9963, 2383.0444, 2383.9822, 2393.0020, 2394.0181, 2398.0447, 2400.0771, 2405.0879, 2414.1050, 2417.0933,
  2421.0769, 2422.0593, 2426.0476, 2428.0725, 2430.0947, 2432.0962, 2435.0254, 2438.0706, 2444.0901, 2451.0278, 2459.9802, 2461.0254, 2501.2520, 2528.1902, 2543.2092, 2564.1965, 2705.2144, 2717.1655, 2834.2925, 2888.2483, 2904.4053, 3130.4312, 3291.4875, 3312.3765,
  3451.6833, 3454.6270
  G1K1U4 Mass: 51632
                                                              Score: 19
                                                                                                Expect: 3.2e+002 Matches: 19
  DNA polymerase delta subunit 3 OS=Bos taurus GN=POLD3 PE=4 SV=2
   Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide
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806.4342 805.4269 805.4181 10.9 209 - 215 1 --- K.ETKTEAK.E
807.3921 806.3848 806.3956 -13.39 292 - 297 1 --- R.MQQKEK.K + Oxidation (M)
957.4673 956.4600 956.4460 14.7 190 - 198 0 --- K.GIMGMFASK.A + Oxidation (M)
957.4673 956.4600 956.4460 14.7 190 - 198 0 --- K.GIMGHASK.A + Oxidation (M)
993.5267 992.5195 992.5179 1.61 363 - 371 0 --- K.TEPEPPPVK.G
1001.5621 1000.5548 1000.5665 -11.68 283 - 291 2 --- K.SSKAEPVR.M
1003.5043 1002.4970 1002.5094 -12.33 199 - 208 1 --- K.AASKAQDANK.E
1045.5603 1044.5530 1044.5750 -21.02 440 - 450 2 --- K.GPKKGTAAMGK.A
1118.5659 1117.5586 1117.5437 13.3 216 - 226 0 --- K.EVMNASSVGPK.A
1323.6320 1322.6247 1322.6024 16.9 301 - 311 1 --- R.KQMELSDDETK.E
1359.7053 1358.6980 1358.6976 0.31 287 - 297 2 --- K.AEPVRMQQKEK.K + Oxidation (M)
1479.7468 1478.7395 1478.7035 24.4 300 - 311 2 --- R.RKQMELSDDETK.E
1615.8425 1614.8352 1614.8518 -10.28 25 - 38 0 --- K.WILSYTLGVHVNQAK.Q
1680.8076 1679.8003 1679.8002 0.05 363 - 378 1 --- K.TEPEPPPVKGSDEGENK.R
1756.8782 1755.8709 1755.8284 24.2 183 - 198 1 --- K.QSSQQPKGIMGMFASK.A + 2 Oxidation (M)
1916.9882 1915.9809 1915.9673 7.11 212 - 230 2 --- K.AENWANSSVGPKAPGK.G + Oxidation (M)
1932.9813 1931.9740 1931.9986 -12.71 241 - 257 2 --- K.AENWANSSVGPKAPGK.G + Oxidation (M)
2082.0293 2081.0220 2081.0397 -8.52 183 - 202 2 --- K.QSSQQPKGIMGMFASKASK.A
2087.8835 2086.8762 2086.9034 -13.04 302 - 318 2 --- K.QSSQQPKGIMGMFASKAASK.A + Oxidation (M)
2097.9961 2096.9888 2097.0347 -21.86 183 - 202 2 --- K.QSSQQPKGIMGMFASKAASK.A + Oxidation (M)
 2097.9961 2096.9888 2097.0347 -21.86
                                                                                       183 - 202 2 --- K.QSSQQPKGIMGMFASKAASK.A + Oxidation (M)
 No match to: 713.4400, 713.4415, 724.3446, 728.2467, 730.2754, 732.2383, 734.2729, 735.3820, 736.3320, 740.2330, 743.2514, 748.2947, 750.2650, 756.4777, 764.3574, 765.3959, 768.3784, 772.4155, 774.3952, 778.4551, 780.3343, 782.3223, 783.3115, 787.2390, 791.2662, 802.4609, 805.3347, 808.4378, 812.4002, 814.4128, 820.4252, 828.3922, 833.3668, 834.3623, 837.3794, 840.3857, 842.5100,
   845.4155, 851.3846, 856.5103, 865.3634, 869.4703, 870.5254, 871.4965, 872.6990, 888.3988, 891.4706, 893.9500, 894.4534,
  905.4637, 911.4314, 912.4475, 913.5080, 913.5100, 918.5267, 925.4804, 927.4970, 930.5015, 933.4662, 935.4675, 943.4757, 951.4646, 952.4799, 961.4901, 962.4866, 967.4440, 969.4496, 972.4781, 974.5051, 975.4521, 977.4406, 978.4772, 979.4924, 983.4706, 985.6071,
  991.4533, 995.5177, 999.4602, 1001.4565, 1007.5638, 1012.5004, 1014.5331, 1018.5130, 1022.5398, 1023.5525, 1028.5991, 1030.5259, 1035.5314, 1036.5333, 1037.5145, 1040.5127, 1042.5243, 1060.5398, 1069.4846, 1075.5515, 1092.6041, 1106.5313, 1109.5087, 1111.5457,
  1113.5419, 1115.5394, 1121.5419, 1122.5701, 1131.5602, 1138.5428, 1149.5912, 1155.5768, 1157.5907, 1158.6328, 1163.6145, 1173.6122, 1177.6130, 1178.6060, 1179.5918, 1180.6001, 1181.6368, 1183.6030, 1187.6376, 1192.6014, 1193.5928, 1195.5924, 1199.6785, 1206.6066,
  1215.6306, 1216.6482, 1226.5839, 1227.6051, 1231.6115, 1232.6251, 1233.6230, 1234.6500, 1235.6155, 1248.6078, 1250.6483, 1254.6526,
  1255.6036, 1256.6123, 1268.6208, 1271.6423, 1276.6179, 1277.6350, 1289.6449, 1292.6322, 1294.6362, 1295.6366, 1300.5895, 1303.6643, 1305.6523, 1307.6600, 1308.6443, 1310.6051, 1315.6364, 1320.6128, 1321.6134, 1325.6456, 1331.6674, 1332.6602, 1333.2076, 1334.6744,
  1336.6710, 1337.6279, 1338.6300, 1338.6300, 1345.6146, 1347.6653, 1349.6800, 1349.6827, 1354.6820, 1355.6964, 1360.6173, 1361.6373, 1365.6752, 1371.6718, 1375.6670, 1377.6776, 1382.6367, 1383.6619, 1387.6700, 1393.6727, 1400.6235, 1409.7107, 1411.6742, 1427.7725,
  1431.7605, 1432.6987, 1434.7190, 1449.7479, 1466.6953, 1473.7905, 1475.7498, 1478.7303, 1485.7531, 1486.7472, 1493.7345, 1495.7502, 1500.7242, 1503.7690, 1505.8511, 1509.6786, 1520.7347, 1522.7239, 1523.7567, 1525.7864, 1527.8068, 1532.7472, 1537.7886, 1539.7711,
  1549.7833, 1555.8657, 1558.8440, 1559.8573, 1568.7592, 1570.7814, 1578.7899, 1606.8213, 1619.7972, 1621.7831, 1628.8156, 1630.8202
  1631.8217, 1639.9263, 1644.8083, 1647.8730, 1649.8650, 1650.8523, 1658.8206, 1659.8125, 1661.8284, 1663.7981, 1665.8070, 1669.8174, 1677.8353, 1679.9403, 1682.7780, 1696.8055, 1697.7845, 1698.7950, 1707.7931, 1709.8029, 1710.8878, 1712.9166, 1716.8563, 1725.8188,
  1727.8683, 1730.8236, 1731.8221, 1742.8798, 1746.1482, 1749.8406, 1751.8657, 1757.8225, 1763.8152, 1765.7922, 1766.8105, 1768.8596, 1769.4275, 1770.4087, 1773.8615, 1774.8795, 1775.0302, 1783.8599, 1785.8483, 1786.8871, 1790.8822, 1792.7894, 1801.9315, 1804.9026,
   1808.8663, 1824.8685, 1830.8608, 1849.8231, 1851.8430, 1867.9100, 1868.9441, 1870.9304, 1880.9020, 1884.9191, 1908.8989,
                                                                                                                                                                                                                                                                  1914.9821
  1920.9862, 1930.9827, 1934.9822, 1947.0288, 1958.9543, 1994.8763, 2011.9012, 2013.8700, 2020.9592, 2025.5920, 2042.0568, 2047.0238, 2047.9805, 2049.9497, 2052.9905, 2053.9851, 2058.9988, 2060.0400, 2060.0405, 2065.0427, 2066.0137, 2066.9895, 2067.9763, 2068.9128,
 2070.8792, 2074.8860, 2084.8977, 2086.8872, 2090.8708, 2092.8674, 2093.8711, 2096.9836, 2100.8787, 2101.8999, 2103.9092, 2107.8730, 2119.9924, 2122.9397, 2136.9133, 2211.1047, 2217.9368, 2225.1243, 2232.0229, 2233.0840, 2238.1050, 2250.0259, 2257.9934, 2262.9368,
 2263.9700, 2273.0264, 2277.9500, 2283.1741, 2290.9570, 2307.9631, 2321.9558, 2323.9670, 2324.9824, 2335.9763, 2339.9456, 2343.0320, 2349.9844, 2352.0308, 2355.0315, 2358.0854, 2368.0815, 2369.0588, 2378.0020, 2379.0002, 2380.0007, 2381.9963, 2383.0444, 2383.9822,
 2393.0020, 2394.0181, 2398.0447, 2400.0771, 2405.0879, 2414.1050, 2417.0933, 2421.0769, 2422.0593, 2426.0476, 2428.0725, 2430.0947, 2432.0962, 2435.0254, 2438.0706, 2444.0901, 2451.0278, 2459.9802, 2461.0254, 2501.2520, 2528.1902, 2543.2092, 2564.1965, 2705.2144,
  2717.1655, 2834.2925, 2888.2483, 2904.4053, 3130.4312, 3291.4875, 3312.3765, 3451.6833, 3454.6270
                     Mass: 32856
                                                     Score: 19
                                                                                  Expect: 3.2e+002 Matches: 14
  Tropomyosin alpha-3 chain OS=Bos taurus GN=TPM3 PE=2 SV=1
   Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide
                                                801.4344 24.0 199 - 205 0 --- K.NVTNNLK.S
893.4606 -16.29 162 - 168 1 --- K.YEEVARK.L
                          801.4537
                         893.4461
   894.4534
894.4534 893.4461 893.4606 -16.29 162 - 168 1 --- K.YEEVARK.L
962.4866 961.4793 961.5015 -23.07 126 - 133 1 --- R.GMKVIENR.A + Oxidation (M)
1022.5398 1021.5325 1021.5300 2.47 8 - 15 1 --- K.MQMLKLDK.E + Oxidation (M)
1109.5087 1108.5014 1108.4819 17.7 119 - 128 1 --- K.AADESERGMK.V + Oxidation (M)
1268.6208 1267.6135 1267.6156 -1.66 150 - 160 1 --- K.EAKHIAEEADR.K
1308.6443 1307.6370 1307.6106 20.2 234 - 244 1 --- K.EAETRAEFAER.S
1475.7498 1474.7425 1474.7701 -18.69 141 - 152 1 --- K.MELQEIQLKEAK.H + Oxidation (M)
1549.7833 1548.7760 1548.7896 -8.74 232 - 244 2 --- K.MELQEIQLKEAK.H + Oxidation (M)
1727.8683 1726.8610 1726.8849 -13.85 92 - 105 1 --- R.IQLVEELDRAQER.L
1808.8663 1807.8590 1807.8257 18.4 113 - 128 2 --- K.LEEAEKAADESERGMK.V + Oxidation (M)
2049.9497 2048.9424 2048.9724 -14.64 267 - 284 1 --- K.YKAISEELDHALNDMTSI.-
2066.0137 2065.0064 2064.9673 18.9 267 - 284 1 --- K.YKAISEELDHALNDMTSI.- + Oxidation (M)
2119.9924 2118.9851 2119.0215 -17.16 31 - 48 2 --- K.QAEERSKQLEDELAAMQK.K + Oxidation (M)
2No match to: 713.4400, 713.4415, 724.3446, 728.2467, 730.2754, 732.2383, 734.2729, 735.3820, 736.3320
 No match to: 713.4400, 713.4415, 724.3446, 728.2467, 730.2754, 732.2383, 734.2729, 735.3820, 736.3320, 740.2330, 743.2514, 748.2947, 750.2650, 756.4777, 764.3574, 765.3959, 768.3784, 772.4155, 774.3952, 778.4551, 780.3343, 782.3223, 783.3115, 787.2390, 791.2662, 805.3347, 806.4342, 807.3921, 808.4378, 812.4002, 814.4128, 820.4252, 828.3922, 830.3668, 834.3623, 837.3794, 840.3857,
  842.5100, 845.4155, 851.3846, 856.5103, 865.3634, 869.4703, 870.5254, 871.4965, 872.6990, 888.3988, 891.4706, 893.9500, 897.0277, 905.4637, 911.4314, 912.4475, 913.5080, 913.5100, 918.5267, 925.4804, 927.4970, 930.5015, 933.4662, 935.4675, 943.4757, 951.4646,
  952.4799, 957.4673, 961.4901, 967.4440, 969.4496, 972.4781, 974.5051, 975.4521, 977.4406, 978.4772, 979.4924, 983.4707, 991.4533, 993.5267, 995.5177, 999.4602, 1001.4565, 1001.5621, 1003.5043, 1007.5638, 1012.5004, 1014.5331, 1018.5130, 1023.5525, 1028.5991, 1030.5259, 1035.5314, 1036.5333, 1037.5145, 1040.5127, 1042.5243, 1045.5603, 1060.5398, 1069.4846, 1075.5515, 1092.6041,
  1106.5313, 1111.5457, 1113.5419, 1115.5394, 1118.5659, 1121.5419, 1122.5701, 1131.5602, 1138.5428, 1149.5912, 1155.5768, 1157.5907, 1158.6328, 1163.6145, 1173.6122, 1177.6130, 1178.6060, 1179.5918, 1180.6001, 1181.6368, 1183.6030, 1187.6376, 1192.6014, 1193.5928,
  1195.5924, 1199.6785, 1206.6066, 1215.6306, 1216.6482, 1226.5839, 1227.6051, 1231.6115, 1232.6251, 1233.6230, 1234.6500, 1235.6155, 1248.6078, 1250.6483, 1254.6526, 1255.6036, 1256.6123, 1271.6423, 1276.6179, 1277.6350, 1289.6449, 1292.6322, 1294.6362, 1295.6366,
  1300.5895, 1303.6643, 1305.6523, 1307.6600, 1310.6051, 1315.6364, 1320.6128, 1321.6134, 1323.6320, 1325.6456, 1331.6674, 1332.6602,
  1333.2076, 1334.6744, 1336.6710, 1337.6279, 1338.6300, 1338.6300, 1345.6146, 1347.6653, 1349.6800, 1349.6827, 1354.6820, 1355.6964, 1359.7053, 1360.6173, 1361.6373, 1365.6752, 1371.6718, 1375.6670, 1377.6776, 1382.6367, 1383.6619, 1387.6700, 1393.6727, 1400.6235,
  1409.7107, 1411.6742, 1427.7725, 1431.7605, 1432.6987, 1434.7190, 1449.7479, 1466.6953, 1473.7905, 1478.7303, 1479.7468, 1485.7531, 1486.7472, 1493.7345, 1495.7502, 1500.7242, 1503.7690, 1505.8511, 1509.6786, 1520.7347, 1522.7239, 1523.7567, 1525.7864, 1527.8068,
  1532.7472, 1537.7886, 1539.7711, 1555.8657, 1558.8440, 1559.8573, 1568.7592, 1570.7814, 1578.7899, 1606.8213, 1615.8425, 1619.7972
  1621,7831, 1628,8156, 1630,8202, 1631,8217, 1639,9263, 1644,8083, 1647,8730, 1649,8650, 1650,8523, 1658,8206, 1659,8125, 1661,8284,
  1663.7981, 1665.8070, 1669.8174, 1677.8353, 1679.9403, 1680.8076, 1682.7780, 1696.8055, 1697.7845, 1698.7950, 1707.7931,
  1710.8878, 1712.9166, 1716.8563, 1725.8188, 1730.8236, 1731.8221, 1742.8798, 1746.1482, 1749.8406, 1751.8657, 1756.8782, 1757.8225,
  1763.8152, 1765.7922, 1766.8105, 1768.8596, 1769.4275, 1770.4087, 1773.8615, 1774.8795, 1775.0302, 1783.8599, 1785.8483, 1786.8871,
  1790.8822, 1792.7894, 1801.9315, 1804.9026, 1824.8685, 1830.8608, 1849.8231, 1851.8430, 1867.9100, 1868.9441, 1870.9304, 1880.9020,
 1884.9191, 1908.8989, 1914.9821, 1916.9882, 1920.9862, 1930.9827, 1932.9813, 1934.9822, 1947.0288, 1958.9543, 1994.8763, 2011.9012, 2013.8700, 2020.9592, 2025.5920, 2042.0568, 2047.0238, 2047.9805, 2052.9905, 2053.9851, 2058.9988, 2060.0400, 2060.0405, 2065.0427,
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2066.9895, 2067.9763, 2068.9128, 2070.8792, 2074.8860, 2082.0293, 2084.8977, 2086.8872, 2087.8835, 2090.8708, 2092.8674, 2093.8711, 2096.9836, 2097.9961, 2100.8787, 2101.8999, 2103.9092, 2107.8730, 2122.9397, 2136.9133, 2211.1047, 2217.9368, 2225.1243, 2232.0229,
                   2233.0840, 2238.1050, 2250.0259, 2257.9934, 2262.9368, 2263.9700, 2273.0264, 2277.9500, 2283.1741, 2290.9570, 2307.9631, 2321.9558
                  2323.9670, 2324.9824, 2335.9763, 2339.9456, 2343.0320, 2349.9844, 2352.0308, 2355.0315, 2358.0854, 2368.0815, 2369.0588, 2378.0020, 2379.0002, 2380.0007, 2381.9963, 2383.0444, 2383.9822, 2393.0020, 2394.0181, 2398.0447, 2400.0771, 2405.0879, 2414.1050, 2417.0933,
                  2421.0769, 2422.0593, 2426.0476, 2428.0725, 2430.0947, 2432.0962, 2435.0254, 2438.0706, 2444.0901, 2451.0278, 2459.9802, 2461.0254, 2501.2520, 2528.1902, 2543.2092, 2564.1965, 2705.2144, 2717.1655, 2834.2925, 2888.2483, 2904.4053, 3130.4312, 3291.4875, 3312.3765,
                   3451.6833, 3454.6270
17. <u>Q2T9X5</u> Mass: 23537 Score: 19
                                                                                                                             Expect: 3.3e+002 Matches: 12
                   Uncharacterized protein C7orf61 homolog OS=Bos taurus PE=2 SV=1

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss
        Ions
        Peptide

        870.5254
        869.5182
        869.5195
        -1.54
        166 - 172
        1 ---
        K.QLRQVAR.R

        1177.6130
        1176.6057
        1176.6233
        -14.92
        18 - 25
        1 ---
        R.WVFFWKHK.A

               1177.6130 1176.6057 1176.6233 -14.92 18 - 25 1 --- R.WYFWKHK.A
1276.6179 1275.6106 1275.6129 -1.78 28 - 38 1 --- K.SVIMDHTDSKK.N + Oxidation (M)
1331.6674 1330.6601 1330.6551 3.78 26 - 37 1 --- K.AKSVIMDHTDSK.K
1334.6744 1333.6911 -18.00 61 - 72 2 --- K.EAKVSKMDVSPK.V + Oxidation (M)
1347.6653 1346.6580 1346.6500 5.95 26 - 37 1 --- K.EAKVSKMDVSPK.V + Oxidation (M)
1359.7053 1358.6980 1358.6976 0.32 143 - 154 1 --- R.SPLESREAAMLR.E
1375.6670 1374.6597 1374.6925 -23.85 143 - 154 1 --- R.SPLESREAAMLR.E + Oxidation (M)
1475.7498 1474.7425 1474.7450 -1.66 26 - 38 2 --- K.AKSVIMDHTDSKK.N + Oxidation (M)
1932.9813 1931.9740 1931.9272 24.2 184 - 201 1 --- R.AHMGPQPDPAQGLKQDAR.S + Oxidation (M)
1225.1243 2224.1170 2224.1117 2.38 128 - 148 2 --- K.SVSSTSVASQMKTRSPLESR.E
2335.9763 2334.9690 2335.0105 -17.78 108 - 127 0 --- K.SVSMLMASALQSGWQMCSWK.S + 3 Oxidation (M)
178 March 10.713.4400 213.4415 274.3446 278.2467 278.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 378.278.7 
                  No match to: 713.4400, 713.4415, 724.3446, 728.2467, 730.2754, 732.2383, 734.2729, 735.3820, 736.3320, 740.2330, 743.2514, 748.2947, 750.2650, 756.4777, 764.3574, 765.3959, 768.3784, 772.4155, 774.3952, 778.4551, 780.3343, 782.3223, 783.3115, 787.2390, 791.2662, 802.4609, 805.3347, 806.4342, 807.3921, 808.4378, 812.4002, 814.4128, 820.4252, 828.3922, 830.3668, 834.3623, 837.3794,
                 791.2002, 801.4009, 805.3547, 800.4542, 807.3921, 806.4378, 812.4002, 814.4128, 820.4252, 820.3922, 830.3088, 891.4502, 831.3083, 834.3523, 837.3794, 840.3857, 842.5100, 845.4155, 851.3846, 856.5103, 865.3634, 869.4703, 871.4965, 872.6990, 888.3988, 891.4706, 893.9500, 894.4534, 897.0277, 905.4637, 911.4314, 912.4475, 913.5080, 913.5100, 918.5267, 925.4804, 927.4970, 930.5015, 933.4662, 935.4675, 943.4757, 951.4646, 952.4799, 957.4673, 961.4901, 962.4866, 967.4440, 969.4496, 972.4781, 974.5051, 975.4521, 977.4406, 978.4772, 979.4924, 983.4706, 985.6071, 991.4533, 993.5267, 995.5177, 999.4602, 1001.4565, 1001.5621, 1003.5043, 1007.5638, 1012.5004, 1014.5331, 1018.5130, 1022.5398, 1023.5525, 1028.5991, 1030.5259, 1035.5314, 1036.5333, 1037.5145, 1040.5127, 1042.5243, 1045.5603, 1060.5398, 1069.4846, 1075.5515, 1092.6041, 1106.5313, 1109.5087, 1111.5457, 1113.5419, 1115.5394, 1118.5659, 1121.5419, 1122.5701, 1131.5602,
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                   1537.7886, 1539.7711, 1549.7833, 1555.8657, 1558.8440, 1559.8573, 1568.7592, 1570.7814, 1578.7899, 1606.8213, 1615.8425, 1619.7972,
                   1621.7831, 1628.8156, 1630.8202, 1631.8217, 1639.9263, 1644.8083, 1647.8730, 1649.8650, 1650.8523, 1658.8206, 1659.8125, 1661.8284,
                   1663.7981, 1665.8070, 1669.8174, 1677.8353, 1679.9403, 1680.8076, 1682.7780, 1696.8055, 1697.7845, 1698.7950, 1707.7931, 1709.8029, 1710.8878, 1712.9166, 1716.8563, 1725.8188, 1727.8683, 1730.8236, 1731.8221, 1742.8798, 1746.1482, 1749.8406, 1751.8657, 1756.8782,
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                  1870.3904, 1880.9020, 1884.9191, 1908.8989, 1914.9821, 1916.9882, 1920.9862, 1930.9827, 1934.9822, 1947.0288, 1958.9543, 1994.8763, 2011.9012, 2013.8700, 2020.9592, 2025.5920, 2042.0568, 2047.0238, 2047.9805, 2049.9497, 2052.9905, 2053.9851, 2058.9988, 2060.0400, 2060.0405, 2065.0427, 2066.0137, 2066.9895, 2067.9763, 2068.9128, 2070.8792, 2074.8860, 2082.0293, 2084.8977, 2086.8872, 2087.8835,
                  2090.8708, 2092.8674, 2093.8711, 2096.9836, 2097.9961, 2100.8787, 2101.8999, 2103.9092, 2107.8730, 2119.9924, 2122.9397, 2136.9133, 2211.1047, 2217.9368, 2232.0229, 2233.0840, 2238.1050, 2250.0259, 2257.9934, 2262.9368, 2263.9700, 2273.0264, 2277.9500, 2283.1741,
                  2290.9570, 2307.9631, 2321.9558, 2323.9670, 2324.9824, 2339.9456, 2343.0320, 2349.9844, 2352.0308, 2355.0315, 2358.0854, 2369.0588, 2378.0020, 2379.0002, 2380.0007, 2381.9963, 2383.0444, 2383.9822, 2393.0020, 2394.0181, 2398.0447, 2400.0771, 2405.0879, 2414.1050, 2417.0933, 2421.0769, 2422.0593, 2426.0476, 2428.0725, 2430.0947, 2432.0962, 2435.0254, 2438.0706, 2444.0901, 2451.0278,
                   2459.9802, 2461.0254, 2501.2520, 2528.1902, 2543.2092, 2564.1965, 2705.2144, 2717.1655, 2834.2925, 2888.2483, 2904.4053, 3130.4312
                   3291.4875, 3312.3765, 3451.6833, 3454.6270
                  A60PI2 Mass: 49923 Score: 19
                                                                                                                                     Expect: 3.3e+002 Matches: 19
                   GAS7 protein OS=Bos taurus GN=GAS7 PE=2 SV=1
                    Observed Mr(expt) Mr(calc) ppm Start
                                                                                                                                                              End Miss Ions Peptide
                                                                                                                        0.34 185 - 190 1 --- K.GKQMQK.E + Oxidation (M)
                                                    734.3747
                                                                                    734.3745
              764,3574 763,3501 763,3460 5,38 30 - 37 0 --- R.TDSAAGSR.R

911,4314 910,4241 910,4218 2.52 191 - 197 0 --- K.EMSEFIR.E

935,4675 934,4602 934,4542 6.42 302 - 308 1 --- R.QRDLEMK.T + Oxidation (M)

1001,5621 1000,5548 1000,5777 - 22.91 296 - 303 2 --- R.KALTERQR.D

1028,5991 1027,5918 1027,5927 -0.83 60 - 68 1 --- R.LISFHRAGK.A

1109,5087 1108,5014 1108,4819 17.6 331 - 340 0 --- K.STQAGDDLMR.C + Oxidation (M)

1307,6600 1306,6527 1306,6768 -18,44 202 - 212 1 --- K.IEEFYARNLAK.L

1325,6456 1324,6383 1324,6081 22.8 341 - 351 0 --- R.CVDLYNQAGSK.W

1377,6776 1376,6703 1376,6830 -9,23 329 - 340 2 --- R.RKSTQAGDDLMR.C + Oxidation (M)

1475,7498 1474,7425 1474,7701 -18,70 304 - 315 1 --- R.DLEMKTQLEIK.L

1493,7345 1492,7272 1492,6987 19,1 1 - 14 2 --- -MARGCASPRASSSR.C

1509,6786 1508,6713 1508,6936 -14,77 1 - 14 2 --- -MARGCASPRASSSR.C + Oxidation (M)

1783,8599 1782,8526 1782,8498 1.57 352 - 365 0 --- K.HSEWERPLINFR.E + Oxidation (M)

1783,8599 1782,8526 1782,8498 1.57 352 - 365 0 --- K.HSEWERPLINFR.E + Oxidation (M)

1783,8599 1792,8526 1782,8498 1.57 352 - 365 0 --- K.HSEWERPLINFR.E + Oxidation (M)

1783,8599 1782,8526 2399,0845 -6.14 331 - 351 1 --- R.ATCSCWRSLEWSPLR.R

2400,0771 2399,0698 2399,0845 -6.14 331 - 351 1 --- K.STQAGDDLMRCVDLYNQAGSK.W

No match to: 713,4400, 713,4415, 724,3446, 728,2467, 730,2754, 732,2383, 734,2729, 736,3320, 740.5
                                                   763.3501 763.3460 5.38
                                                                                                                                          30 - 37 0 --- R.TDSAAGSR.R
                  No match to: 713.4400, 713.4415, 724.3446, 728.2467, 730.2754, 732.2383, 734.2729, 736.3320, 740.2330, 743.2514, 748.2947, 750.2650, 756.4777, 765.3959, 768.3784, 772.4155, 774.3952, 778.4551, 780.3343, 782.3223, 783.3115, 787.2390, 791.2662, 802.4609, 805.3347, 806.4342, 807.3921, 808.4378, 812.4002, 814.4128, 820.4252, 828.3922, 830.3668, 834.3623, 837.3794, 840.3857, 842.5100,
                   845.4155, 851.3846, 856.5103, 865.3634, 869.4703, 870.5254, 871.4965, 872.6990, 888.3988, 891.4706, 893.9500, 894.4534, 897.0277, 905.4637, 912.4475, 913.5080, 913.5100, 918.5267, 925.4804, 927.4970, 930.5015, 933.4662, 943.4757, 951.4646, 952.4799, 957.4673, 961.4901, 962.4866, 967.4440, 969.4496, 972.4781, 974.5051, 975.4521, 977.4406, 978.4772, 979.4924, 983.4706, 985.6071, 991.4533,
                  993.5267, 995.5177, 999.6002, 1001.4565, 1003.5043, 1007.5638, 1012.5004, 1014.5331, 1018.5130, 1022.5398, 1023.5525, 1030.5259, 1035.5314, 1036.5333, 1037.5145, 1040.5127, 1042.5243, 1045.5603, 1060.5398, 1069.4846, 1075.5515, 1092.6041, 1106.5313, 1111.5457, 1113.5419, 1115.5394, 1118.5659, 1121.5419, 1122.5701, 1131.5602, 1138.5428, 1149.5912, 1157.5968, 1157.5907, 1158.6328, 1163.6145, 1173.6122, 1177.6130, 1178.6060, 1179.5918, 1180.6001, 1181.6368, 1183.6030, 1187.6376, 1192.6014, 1193.5928, 1195.5924, 1199.6785,
                   1206.6066, 1215.6306, 1216.6482, 1226.5839, 1227.6051, 1231.6115, 1232.6251, 1233.6230, 1234.6500, 1235.6155, 1248.6078, 1250.6483,
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   1559.8573, 1568.7592, 1570.7814, 1578.7899, 1606.8213, 1619.7972, 1621.7831, 1628.8156, 1630.8202, 1631.8217, 1639.9263, 1644.8083,
  1647.8730, 1649.8650, 1650.8523, 1658.8206, 1659.8125, 1661.8284, 1663.7981, 1665.8070, 1669.8174, 1677.8353, 1679.9403, 1680.8076, 1682.7780, 1696.8055, 1697.7845, 1698.7950, 1707.7931, 1709.8029, 1710.8878, 1712.9166, 1716.8563, 1725.8188, 1727.8683, 1730.8236,
  1731.8221, 1742.8798, 1746.1482, 1749.8406, 1751.8657, 1756.8782, 1757.8225, 1763.8152, 1765.7922, 1766.8105, 1768.8596, 1769.4275, 1770.4087, 1773.8615, 1774.8795, 1775.0302, 1785.8483, 1786.8871, 1790.8822, 1792.7894, 1801.9315, 1804.9026, 1808.8663, 1824.8685,
  1830.8608, 1849.8231, 1851.8430, 1867.9100, 1868.9441, 1870.9304, 1880.9020, 1884.9191, 1914.9821, 1916.9882, 1920.9862, 1930.9827,
  1932.9813, 1934.9822, 1947.0288, 1958.9543, 1994.8763, 2011.9012, 2013.8700, 2020.9592, 2025.5920, 2042.0568, 2047.0238, 2047.9805, 2049.9497, 2052.9905, 2053.9851, 2058.9988, 2060.0400, 2060.0405, 2065.0427, 2066.0137, 2066.9895, 2067.9763, 2068.9128, 2070.8792,
  2074.8860, 2082.0293, 2084.8977, 2086.8872, 2087.8835, 2090.8708, 2092.8674, 2093.8711, 2096.9836, 2097.9961, 2100.8787, 2101.8999, 2103.9092, 2107.8730, 2119.9924, 2122.9397, 2136.9133, 2211.1047, 2217.9368, 2225.1243, 2232.0229, 2233.0840, 2238.1050, 2250.0259,
  2257.9934, 2262.9368, 2263.9700, 2273.0264, 2277.9500, 2283.1741, 2290.9570, 2307.9631, 2321.9558, 2323.9670, 2324.9824, 2335.9763, 2339.9456, 2343.0320, 2349.9844, 2352.0308, 2355.0315, 2358.0854, 2368.0815, 2369.0588, 2378.0020, 2379.0002, 2380.0007, 2381.9963,
  2383.0444, 2383.9822, 2393.0020, 2394.0181, 2398.0447, 2405.0879, 2414.1050, 2417.0933, 2421.0769, 2422.0593, 2426.0476, 2428.0725
  2430.0947, 2432.0962, 2435.0254, 2438.0706, 2444.0901, 2451.0278, 2459.9802, 2461.0254, 2501.2520, 2543.2092, 2564.1965, 2705.2144, 2717.1655, 2834.2925, 2888.2483, 2904.4053, 3130.4312, 3291.4875, 3312.3765, 3451.6833, 3454.6270
                                                         Score: 19
                                                                                              Expect: 3.3e+002 Matches: 13
  Golgi SNAP receptor complex member 1 OS=Bos taurus GN=GOSR1 PE=2 SV=1

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss Ions
        Peptide

        774.3952
        773.3879
        773.3892
        -1.70
        44 - 49
        2
        ---
        R.DGRRD

774.3952 773.3879 773.3892 -1.70 44 - 49 2 --- R.DGRRDR.Y

865.3634 864.3561 864.3759 -22.93 189 - 195 0 --- K.ENMTSQR.G

905.4637 904.4564 904.4436 14.1 136 - 143 0 --- R.ENLMGSVR.K

1007.5638 1006.5565 1006.5481 8.37 196 - 204 1 --- R.GMLKSIQSK.M + Oxidation (M)

1206.6066 1205.5993 1205.5822 14.2 134 - 143 1 --- R.GMLKSIQSK.M + Oxidation (M)

1294.6362 1293.6289 1293.6169 9.28 189 - 199 1 --- K.ENMTSQRGMLK.S

1310.6051 1309.5978 1309.6118 -10.70 189 - 199 1 --- K.ENMTSQRGMLK.S + Oxidation (M)

1334.6744 1333.6671 1333.6772 -7.56 134 - 144 2 --- R.GERENLMGSVRK.D + Oxidation (M)

1382.6367 1381.6294 1381.6262 2.32 2 - 13 0 --- M.AAGTSNYWEDLR.K

1537.7886 1536.7813 1536.8049 -15.31 160 - 171 1 --- R.TELFLKEHDHLR.N

1768.8596 1767.8523 1767.8825 -17.06 136 - 150 2 --- R.ENLMGSVRKDLESYK.S

1774.8795 1773.8722 1773.8686 2.05 113 - 126 1 --- R.DILDDYTHEFHKTK.A

2011.9012 2010.8939 2010.9243 -15.09 48 - 65 1 --- R.DRYSSDTTPLLNGSSQDR.M

No match to: 713.4400, 713.4415, 724.3446, 728.2467, 730.2754, 732.2383, 734.2729, 735.3820, 7
                                                                                                                                                     R.DGRRDR.Y
  No match to: 713.4400, 713.4415, 724.3446, 728.2467, 730.2754, 732.2383, 734.2729, 735.3820, 736.3320, 740.2330, 743.2514, 748.2947, 750.2650, 756.4777, 764.3574, 765.3959, 768.3784, 772.4155, 778.4551, 780.3343, 782.3223, 783.3115, 787.2390, 791.2662, 802.4609, 805.3347, 806.4342, 807.3921, 808.4378, 812.4002, 814.4128, 820.4252, 828.3922, 830.3668, 834.3623, 837.3794, 840.3857,
  842.5100, 845.4155, 851.3846, 856.5103, 869.4703, 870.5254, 871.4965, 872.6990, 888.3988, 891.4706, 893.9500, 894.4534, 897.0277, 911.4314, 912.4475, 913.5080, 913.5100, 918.5267, 925.4804, 927.4970, 930.5015, 933.4662, 935.4675, 943.4757, 951.4646, 952.4799, 957.4673, 961.4901, 962.4866, 967.4440, 969.4496, 972.4781, 974.5051, 975.4521, 977.4406, 978.4772, 979.4924, 983.4706, 985.6071, 991.4533, 993.5267, 995.5177, 999.4602, 1001.4565, 1001.5621, 1003.5043, 1012.5004, 1014.5331, 1018.5130, 1022.5398, 1023.5525, 1028.5991, 1030.5259, 1035.5314, 1036.5333, 1037.5145, 1040.5127, 1042.5243, 1045.5603, 1060.5398, 1069.4846, 1075.5515, 1092.6041,
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  1539.7711, 1549.7833, 1555.8657, 1558.8440, 1559.8573, 1568.7592, 1570.7814, 1578.7899, 1606.8213, 1615.8425, 1619.7972, 1621.7831, 1628.8156, 1630.8202, 1631.8217, 1639.9263, 1644.8083, 1647.8730, 1649.8650, 1650.8523, 1658.8206, 1659.8125, 1661.8284, 1663.7981,
  1665.8070, 1669.8174, 1677.8353, 1679.9403, 1680.8076, 1682.7780, 1696.8055, 1697.7845, 1698.7950, 1707.7931, 1709.8029, 1710.8878,
  1712.9166, 1716.8563, 1725.8188, 1727.8683, 1730.8236, 1731.8221, 1742.8798, 1746.1482, 1749.8406, 1751.8657, 1756.8782, 1757.8225,
   1763.8152, 1765.7922, 1766.8105, 1769.4275, 1770.4087, 1773.8615, 1775.0302, 1783.8599, 1785.8483, 1786.8871, 1790.8822, 1792.7894,
  1801.9315, 1804.9026, 1808.8663, 1824.8685, 1830.8608, 1849.8231, 1851.8430, 1867.9100, 1868.9441, 1870.9304, 1880.9020, 1884.9191, 1908.8989, 1914.9821, 1916.9882, 1920.9862, 1930.9827, 1932.9813, 1934.9822, 1947.0288, 1958.9543, 1994.8763, 2013.8700, 2020.9592,
  2025.5920, 2042.0568, 2047.0238, 2047.9805, 2049.9497, 2052.9905, 2053.9851, 2058.9988, 2060.0400, 2060.0405, 2065.0427, 2066.0137, 2066.9895, 2067.9763, 2068.9128, 2070.8792, 2074.8860, 2082.0293, 2084.8977, 2086.8872, 2087.8835, 2090.8708, 2092.8674, 2093.8711, 2096.9836, 2097.9961, 2100.8787, 2101.8999, 2103.9092, 2107.8730, 2119.9924, 2122.9397, 2136.9133, 2211.1047, 2217.9368, 2225.1243,
  2232.0229, 2233.0840, 2238.1050, 2250.0259, 2257.9934, 2262.9368, 2263.9700, 2273.0264, 2277.9500, 2283.1741, 2290.9570, 2307.9631, 2321.9558, 2323.9670, 2324.9824, 2335.9763, 2339.9456, 2343.0320, 2349.9844, 2352.0308, 2355.0315, 2358.0854, 2368.0815, 2369.0588,
  2378.0020, 2379.0002, 2380.0007, 2381.9963, 2383.0444, 2383.9822, 2393.0020, 2394.0181, 2398.0447, 2400.0771, 2405.0879, 2414.1050, 2417.0933, 2421.0769, 2422.0593, 2426.0476, 2428.0725, 2430.0947, 2432.0962, 2435.0254, 2438.0706, 2444.0901, 2451.0278, 2459.9802, 2461.0254, 2501.2520, 2528.1902, 2543.2092, 2564.1965, 2705.2144, 2717.1655, 2834.2925, 2888.2483, 2904.4053, 3130.4312, 3291.4875,
  3312.3765, 3451.6833, 3454.6270
 Q2TBN3 Mass: 19797 Score: 18
                                                                                          Expect: 3.4e+002 Matches: 12
Centrin-2 OS=Bos tau=us GN=CETN2 PE=2 SV=1

Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide
979.4924 978.4852 978.5056 -20.85 71 - 78 1 --- K.KMISEIDK.E + Oxidation (M)
1234.6500 1233.6427 1233.6540 -9.11 55 - 65 1 --- K.VAMRALGFEPK.K + Oxidation (M)
1307.6600 1306.6527 1306.6438 6.80 72 - 83 1 --- K.MISEIDKEGTGK.M
1323.6320 1322.6247 1322.6388 -10.61 72 - 83 1 --- K.MISEIDKEGTGK.M + Oxidation (M)
1432.6987 1431.6914 1431.6915 -0.06 19 - 30 0 --- R.MSPKPELTEEQK.Q + Oxidation (M)
1716.8563 1715.8490 1715.8876 -22.47 17 - 30 2 --- R.KRMSPKPELTEEQK.Q + Oxidation (M)
1785.8483 1784.8410 1784.8661 -14.07 1 - 16 2 --- MASNFKKANMASTIQR.K
1958.9543 1957.9470 1957.9778 -15.74 19 - 34 1 --- R.MSPKPELTEEQK.Q + Oxidation (M)
2049.9497 2048.9424 2048.9547 -6.00 79 - 96 1 --- K.MSPKPELTEEQK.Q + Oxidation (M)
2052.9905 2051.9832 2051.9366 22.7 84 - 100 1 --- K.MNFSDFLTVMTQKMSEK.D + Oxidation (M)
2068.9128 2067.9055 2067.9315 -12.58 84 - 100 1 --- K.MNFSDFLTVMTQKMSEK.D + 2 Oxidation (M)
2084.8977 2083.8904 2083.9265 -17.29 84 - 100 1 --- K.MNFSDFLTVMTQKMSEK.D + 3 Oxidation (M)
No match to: 713.4410, 713.4415, 724.33446, 728.2467, 730.2754, 732.2383, 734.2729, 735.3820, 736.3320,
  Centrin-2 OS=Bos taurus GN=CETN2 PE=2 SV=1
  No match to: 713.4400, 713.4415, 724.3446, 728.2467, 730.2754, 732.2383, 734.2729, 735.3820, 736.3320, 740.2330, 743.2514,
  748.2947, 750.2650, 756.4777, 764.3574, 765.3959, 768.3784, 772.4155, 774.3952, 778.4551, 780.3343, 782.3223, 783.3115, 787.2390, 791.2662, 802.4609, 805.3347, 806.4342, 807.3921, 808.4378, 812.4002, 814.4128, 820.4252, 828.3922, 830.3668, 834.3623, 837.3794, 840.3857, 842.5100, 845.4155, 851.3846, 856.5103, 865.3634, 869.4703, 870.5254, 871.4965, 872.6990, 888.3988, 891.4706, 893.9500,
  894.4534, 897.0277, 905.4637, 911.4314, 912.4475, 913.5080, 913.5100, 918.5267, 925.4804, 927.4970, 930.5015, 933.4662, 935.4675, 943.4757, 951.4646, 952.4799, 957.4673, 961.4901, 962.4866, 967.4440, 969.4496, 972.4781, 974.5051, 975.4521, 977.4406, 978.4772,
  983.4706, 985.6071, 991.4533, 993.5267, 995.5177, 999.4602, 1001.4565, 1001.5621, 1003.5043, 1007.5638, 1012.5004, 1014.531, 1018.5130, 1022.5398, 1023.5525, 1028.5991, 1030.5259, 1035.5314, 1036.5333, 1037.5145, 1040.5127, 1042.5243, 1045.5603, 1060.5398, 1069.4846, 1075.5515, 1092.6041, 1106.5313, 1109.5087, 1111.5457, 1113.5419, 1115.5394, 1118.5659, 1121.5419, 1122.5701, 1131.5602,
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1138.5428, 1149.5912, 1155.5768, 1157.5907, 1158.6328, 1163.6145, 1173.6122, 1177.6130, 1178.6060, 1179.5918, 1180.6001, 1181.6368, 1183.6030, 1187.6376, 1192.6014, 1193.5928, 1195.5924, 1199.6785, 1206.6066, 1215.6306, 1216.6482, 1226.5839, 1227.6051, 1231.6115,
  1232.6251, 1233.6230, 1235.6155, 1248.6078, 1250.6483, 1254.6526, 1255.6036, 1256.6123, 1268.6208, 1271.6423, 1276.6179, 1277.6350
  1289.6449, 1292.6322, 1294.6362, 1295.6366, 1300.5895, 1303.6643, 1305.6523, 1308.6443, 1310.6051, 1315.6364, 1320.6128, 1321.6134, 1325.6456, 1331.6674, 1332.6602, 1333.2076, 1334.6744, 1336.6710, 1337.6279, 1338.6300, 1338.6300, 1345.6146, 1347.6653, 1349.6800,
  1349.6827, 1354.6820, 1355.6964, 1359.7053, 1360.6173, 1361.6373, 1365.6752, 1371.6718, 1375.6670, 1377.6776, 1382.6367, 1383.6619, 1387.6700, 1393.6727, 1400.6235, 1409.7107, 1411.6742, 1427.7725, 1431.7605, 1434.7190, 1449.7479, 1466.6953, 1473.7905, 1475.7498,
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  1578.7899, 1606.8213, 1615.8425, 1619.7972, 1621.7831, 1628.8156, 1630.8202, 1631.8217, 1639.9263, 1644.8083, 1647.8730, 1649.8650,
  1650.8523, 1658.8206, 1659.8125, 1661.8284, 1663.7981, 1665.8070, 1669.8174, 1677.8353, 1679.9403, 1680.8076, 1682.7780, 1696.8055, 1697.7845, 1698.7950, 1707.7931, 1709.8029, 1710.8878, 1712.9166, 1725.8188, 1727.8683, 1730.8236, 1731.8221, 1742.8798, 1746.1482,
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  1867.9100, 1868.9441, 1870.9304, 1880.9020, 1884.9191, 1908.8989, 1914.9821, 1916.9882, 1920.9862, 1930.9827, 1932.9813, 1934.9822, 1947.0288, 1994.8763, 2011.9012, 2013.8700, 2020.9592, 2025.5920, 2042.0568, 2047.0238, 2047.9805, 2053.9851, 2058.9988, 2060.0400,
  2060.0405, 2065.0427, 2066.0137, 2066.9895, 2067.9763, 2070.8792, 2074.8860, 2082.0293, 2086.8872, 2087.8835, 2090.8708, 2092.8674, 2093.8711, 2096.9836, 2097.9961, 2100.8787, 2101.8999, 2103.9092, 2107.8730, 2119.9924, 2122.9397, 2136.9133, 2211.1047, 2217.9368,
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  3291.4875, 3312.3765, 3451.6833, 3454.6270
 F1MMV5 Mass: 66566 Score: 18
                                                                                          Expect: 3.4e+002 Matches: 22
  Nuclear speckle-splicing regulatory protein 1 OS=Bos taurus GN=NSRP1 PE=4 SV=2

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss Ions
        Peptide

        807.3921
        806.3848
        806.3896
        -5.90
        343
        - 348
        1
        ---
        R.DSHRHR.E

828.3922 827.3849 827.4038 -22.90 354 - 359 1 --- R.DSHWR.H 837.3794 836.3721 836.3698 2.79 130 - 135 1 --- R.EREMEK.G + Oxidation (M) 869.4703 868.4631 868.4627 0.39 310 - 316 2 --- R.SRGHEKR.E 927.4970 926.4687 926.4682 23.2 340 - 346 2 --- R.SRGHEK.E 1001.4565 1000.4492 1000.4396 9.61 403 - 410 1 --- R.HNEKGCEK.E 1111.5457 1110.5384 1110.5161 20.1 472 - 480 2 --- R.ASKMRDMEK.D + Oxidation (M) 1155.5394 1114.5321 1114.5519 -17.77 372 - 379 2 --- R.EPDREWKR.E 1181.6368 1180.6295 1180.6061 19.9 360 - 368 2 --- R.HEEERLEGR.D 1234.6500 1233.6427 1233.6135 23.7 127 - 135 2 --- K.IQREREMEK.G + Oxidation (M) 1303.6633 1302.6570 1302.6415 11.9 271 - 282 1 --- R.DRYLARQMAR.I + Oxidation (M) 1303.6643 1302.6570 1302.6415 11.9 271 - 282 1 --- R.EKGTETLSSHSK.H 1349.6800 1348.6727 1348.6847 -8.91 464 - 474 2 --- R.DRYLARQMAR.I + Oxidation (M) 1365.6752 1364.6679 1364.6983 -22.24 466 - 476 2 --- R.FVNQERASK.M 1349.6827 1348.6754 1348.6847 -6.91 464 - 474 2 --- R.FVNQERASK.M 1365.6752 1364.6679 1364.6983 -22.24 466 - 476 2 --- R.FVNQERASK.M 1520.7347 1519.7274 1519.7339 -4.24 526 - 538 2 --- R.FVNQERASK.M 1520.7347 1519.7274 1519.7339 -4.24 526 - 538 2 --- R.FVNQERASK.M 1866.9027 1866.9027 1866.9184 -8.38 527 - 542 2 --- R.SNEETVTSARDR.Y 1786.8871 1785.8798 1785.8857 -3.26 483 - 499 1 --- R.EKGTETLSSHSK.H 1914.9821 1913.9748 1913.9568 9.40 273 - 289 2 --- R.SNEETVTSARDR.S 2398.0447 2397.0374 2397.0330 1.86 317 - 335 1 --- R.EKGEVNSESER.N 1914.9821 1913.9748 1913.9568 9.40 273 - 289 2 --- R.SNEETVTSARDR.S 2398.0447 2397.0374 2397.0330 1.86 317 - 335 1 --- R.EEDEHQERPAREQDSYHTDR.D No match to: 713.4400, 713.4415, 724.3446, 728.2467, 730.2754, 732.2383, 734.2729, 735.3820, 748.8247, 750.2560, 756.756 4777, 768.3764, 730.2754, 732.2383, 734.2729, 735.3820, 748.8247, 750.2560, 756.64777, 768.3764, 750.2670, 736.8247, 750.2670, 735.3820, 768.3784, 772.4155, 778.45551, 780.
                                                      827.4038 -22.90 354 - 359 1 --- R.DSHWKR.H
   828.3922 827.3849
  No match to: 713.4400, 713.4415, 724.3446, 728.2467, 730.2754, 732.2383, 734.2729, 735.3820, 736.3320, 740.2330, 743.2514, 748.2947, 750.2650, 756.4777, 764.3574, 765.3959, 768.3784, 772.4155, 774.3952, 778.4551, 780.3343, 782.3223, 783.3115, 787.2390, 791.2662, 802.4609, 805.3347, 806.4342, 808.4378, 812.4002, 814.4128, 820.4252, 830.3668, 834.3623, 840.3857, 842.5100, 845.4155,
  851.3846, 856.5103, 865.3634, 870.5254, 871.4965, 872.6990, 888.3988, 891.4706, 893.9500, 894.4534, 897.0277, 905.4637, 911.4314, 912.4475, 913.5080, 913.5100, 918.5267, 925.4804, 930.5015, 933.4662, 935.4675, 943.4757, 951.4646, 952.4799, 957.4673, 961.4901, 962.4866, 967.4440, 969.4496, 972.4781, 974.5051, 975.4521, 977.4406, 978.4772, 979.4924, 983.4706, 985.6071, 991.4533, 993.5267,
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  1338.6300, 1347.6653, 1354.6820, 1355.6964, 1359.7053, 1360.6173, 1361.6373, 1371.6718, 1375.6670, 1377.6776, 1382.6367, 1383.6619, 1387.6700, 1393.6727, 1400.6235, 1409.7107, 1411.6742, 1427.7725, 1431.7605, 1432.6987, 1449.7479, 1466.6953, 1473.7905, 1475.7498,
  1478.7303, 1479.7468, 1485.7531, 1486.7472, 1493.7345, 1495.7502, 1500.7242, 1503.7690, 1505.8511, 1509.6786, 1522.7239, 1523.7567, 1525.7864, 1527.8068, 1532.7472, 1537.7886, 1539.7711, 1549.7833, 1555.8657, 1558.8440, 1559.8573, 1568.7592, 1570.7814, 1578.7899,
  1606.8213, 1615.8425, 1619.7972, 1621.7831, 1628.8156, 1630.8202, 1631.8217, 1639.9263, 1644.8083, 1647.8730, 1649.8650, 1650.8523, 1658.8206, 1659.8125, 1661.8284, 1663.7981, 1665.8070, 1669.8174, 1677.8353, 1679.9403, 1680.8076, 1682.7780, 1696.8055, 1697.7845,
   1698.7950, 1707.7931, 1709.8029, 1710.8878, 1712.9166, 1716.8563, 1725.8188, 1727.8683, 1730.8236, 1731.8221, 1742.8798, 1746.1482,
  1749.8406, 1751.8657, 1756.8782, 1757.8225, 1763.8152, 1765.7922, 1766.8105, 1768.8596, 1769.4275, 1770.4087, 1773.8615, 1774.8795, 1775.0302, 1783.8599, 1785.8483, 1790.8822, 1792.7894, 1801.9315, 1804.9026, 1808.8663, 1824.8685, 1830.8608, 1849.8231, 1851.8430,
  1868.9441, 1870.9304, 1880.9020, 1884.9191, 1908.8989, 1916.9882, 1920.9862, 1930.9827, 1932.9813, 1934.9822, 1947.0288, 1958.9543, 1994.8763, 2011.9012, 2013.8700, 2020.9592, 2025.5920, 2042.0568, 2047.0238, 2047.9805, 2049.9497, 2052.9905, 2053.9851, 2058.9988,
   2060.0400, 2060.0405, 2065.0427, 2066.0137, 2066.9895, 2067.9763, 2068.9128, 2070.8792, 2074.8860, 2082.0293, 2084.8977, 2086.8872,
  2087.8835, 2090.8708, 2092.8674, 2093.8711, 2096.9836, 2097.9961, 2100.8787, 2101.8999, 2103.9092, 2107.8730, 2119.9924, 2122.9397, 2136.9133, 2211.1047, 2217.9368, 2225.1243, 2232.0229, 2233.0840, 2238.1050, 2250.0259, 2257.9934, 2262.9368, 2263.9700, 2273.0264,
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  2400.0771, 2405.0879, 2414.1050, 2417.0933, 2421.0769, 2422.0593, 2426.0476, 2428.0725, 2430.0947, 2432.0962, 2435.0254, 2438.0706, 2444.0901, 2451.0278, 2459.9802, 2461.0254, 2501.2520, 2528.1902, 2543.2092, 2564.1965, 2705.2144, 2717.1655, 2834.2925, 2888.2483,
  2904.4053, 3130.4312, 3291.4875, 3312.3765, 3451.6833, 3454.6270
                                                        Score: 18
                                                                                           Expect: 3.4e+002 Matches: 22
  Nuclear speckle splicing regulatory protein 1 OS=Bos taurus GN=NSRP1 PE=2 SV=1

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss Ions
        Peptide

        807.3921
        806.3848
        806.3896
        -5.90
        343
        - 348
        1
        ---
        R.DSHRHF

        828.3922
        827.3849
        827.4038
        -22.90
        354
        - 359
        1
        ---
        R.DSHWKF

                                                                                                                                                R.DSHRHR.E
                                                                                                                                                R.DSHWKR.H
827.3849 827.4038 -22.90 354 - 359 1 --- R.DSHWRR.H
837.3794 836.3721 836.3698 2.79 130 - 135 1 --- R.EREMEK.G + Oxidation (M)
869.4703 868.4631 868.4627 0.39 310 - 316 2 --- R.SRGHEK.E
927.4970 926.4897 926.4682 23.2 340 - 346 2 --- K.EKRDSHR.H
1001.4565 1000.4492 1000.4396 9.61 404 - 411 1 --- R.HNEKGCEK.E
1003.5043 1002.4970 1002.4995 -2.47 374 - 380 2 --- R.NDREWKR.E
1111.5457 1110.5384 1110.5161 20.1 473 - 481 2 --- R.ASKMRDMEK.D + Oxidation (M)
```

```
1181.6368 1180.6295 1180.6061 19.9 360 - 368 2 --- R.HEEERLRGR.D
1234.6500 1233.6427 1233.6135 23.7 127 - 135 2 --- K.IQREREMEK.G + Oxidation (M)
1295.6366 1294.6293 1294.6564 -20.992 538 - 547 2 --- R.DRYLARQMAR.I + Oxidation (M)
1303.6643 1302.6570 1302.6415 11.9 271 - 282 1 --- R.EKGTETLSSHSK.H
1345.6146 1344.6073 1344.6058 1.13 429 - 438 2 --- R.YENSDKYRDR.E
1349.6800 1348.6727 1348.6847 -8.91 465 - 475 2 --- K.DRFVNQERASK.M
1349.6827 1348.6754 1348.6847 -6.91 465 - 475 2 --- K.DRFVNQERASK.M
1365.6752 1364.6679 1364.6983 -22.24 467 - 477 2 --- R.FVNQERASK.M
1343.7110 1433.7117 1433.7110 0.51 439 - 450 2 --- R.EKGTENSHSK.H
1520.7347 1519.7274 1519.7339 -4.24 527 - 539 2 --- K.RSNEETVTSARDR.Y
1786.8871 1785.8798 1785.8857 -3.26 484 - 500 1 --- K.ERNPEKPSSSEASLGAK.H
1867.9100 1866.9027 1866.9184 -8.38 528 - 543 2 --- R.SNEETVTSARDRYLAR.Q
1914.9821 1913.9748 1913.9568 9.40 273 - 289 2 --- K.GTETLSSHSKHRNPAR.S
2398.0447 2397.0374 2397.0330 1.86 317 - 335 1 --- R.EDEHQERPAREQDSYHTDR.D
No match to: 713.4400, 713.4415, 724.3446, 728.2467, 730.2754, 732.2383, 734.2729, 735.3820,
  No match to: 713.4400, 713.4415, 724.3446, 728.2467, 730.2754, 732.2383, 734.2729, 735.3820, 736.3320, 740.2330, 743.2514, 748.2947, 750.2650, 756.4777, 764.3574, 765.3959, 768.3784, 772.4155, 774.3952, 778.4551, 780.3343, 782.3223, 783.3115, 787.2390, 791.2662, 802.4609, 805.3347, 806.4342, 808.4378, 812.4002, 814.4128, 820.4252, 830.3668, 834.3623, 840.3857, 842.5100, 845.4155,
   851.3846, 856.5103, 865.3634, 870.5254, 871.4965, 872.6990, 888.3988, 891.4706, 893.9500, 894.4534, 897.0277, 905.4637, 911.4314,
  912.4475, 913.5080, 913.5100, 918.5267, 925.4804, 930.5015, 933.4662, 935.4675, 943.4757, 951.4646, 952.4799, 957.4673, 961.4901, 962.4866, 967.4440, 969.4496, 972.4781, 974.5051, 975.4521, 977.4406, 978.4772, 979.4924, 983.4706, 985.6071, 991.4533, 993.5267, 999.4602, 1001.5621, 1007.5638, 1012.5004, 1014.5311, 1018.5130, 1022.5398, 1023.5525, 1028.5991, 1030.5259, 1035.5314, 1036.5333, 1037.5145, 1040.5127, 1042.5243, 1045.5603, 1060.5398, 1069.4846, 1075.5515, 1092.6041, 1106.5313, 1109.5087, 1113.5419,
  1115.5394, 1118.5659, 1121.5419, 1122.5701, 1131.5602, 1138.5428, 1149.5912, 1155.5768, 1157.5907, 1158.6328, 1163.6145, 1173.6122, 1177.6130, 1178.6060, 1179.5918, 1180.6001, 1183.6030, 1187.6376, 1192.6014, 1193.5928, 1195.5924, 1199.6785, 1206.6066, 1215.6306, 1216.6482, 1226.5839, 1227.6051, 1231.6115, 1232.6251, 1233.6230, 1235.6155, 1248.6078, 1250.6483, 1254.65526, 1255.6066, 1255.6123, 1268.6208, 1271.6423, 1276.6179, 1277.6350, 1289.6449, 1292.6322, 1294.6362, 1300.5895, 1305.6523, 1307.6600, 1308.6443, 1310.6051,
    1315.6364, 1320.6128, 1321.6134, 1323.6320, 1325.6456, 1331.6674, 1332.6602, 1333.2076, 1334.6744, 1336.6710, 1337.6279, 1338.6300,
   1338.6300, 1347.6653, 1354.6820, 1355.6964, 1359.7053, 1360.6173, 1361.6373, 1371.6718, 1375.6670, 1377.6776, 1382.6367, 1383.6619, 1387.6700, 1393.6727, 1400.6235, 1409.7107, 1411.6742, 1427.7725, 1431.7605, 1432.6987, 1449.7479, 1466.6953, 1473.7905, 1475.7498,
   1478.7303, 1479.7468, 1485.7531, 1486.7472, 1493.7345, 1495.7502, 1500.7242, 1503.7690, 1505.8511, 1509.6786, 1522.7239, 1523.7567, 1525.7864, 1527.8068, 1532.7472, 1537.7886, 1539.7711, 1549.7833, 1555.8657, 1558.8440, 1559.8573, 1568.7592, 1570.7814, 1578.7899,
   1606.8213, 1615.8425, 1619.7972, 1621.7831, 1628.8156, 1630.8202, 1631.8217, 1639.9263, 1644.8083, 1647.8730, 1649.8650, 1650.8523,
   1658.8206, 1659.8125, 1661.8284, 1663.7981, 1665.8070, 1669.8174, 1677.8353, 1679.9403, 1680.8076, 1682.7780, 1696.8055, 1697.7845,
   1698.7950, 1707.7931, 1709.8029, 1710.8878, 1712.9166, 1716.8563, 1725.8188, 1727.8683, 1730.8236, 1731.8221, 1742.8798, 1746.1482,
   1749.8406, 1751.8657, 1756.8782, 1757.8225, 1763.8152, 1765.7922, 1766.8105, 1768.8596, 1769.4275, 1770.4087, 1773.8615, 1774.8795, 1775.0302, 1783.8599, 1785.8483, 1790.8822, 1792.7894, 1801.9315, 1804.9026, 1808.8663, 1824.8685, 1830.8608, 1849.8231, 1851.8430,
   1868.9441, 1870.9304, 1880.9020, 1884.9191, 1908.8989, 1916.9882, 1920.9862, 1930.9827, 1932.9813, 1934.9822, 1947.0288, 1958.9543, 1994.8763, 2011.9012, 2013.8700, 2020.9592, 2025.5920, 2042.0568, 2047.0238, 2047.9805, 2049.9497, 2052.9905, 2053.9851, 2058.9988,
   2060.0400, 2060.0405, 2065.0427, 2066.0137, 2066.9895, 2067.9763, 2068.9128, 2070.8792, 2074.8860, 2082.0293, 2084.8977, 2086.8872,
  2087.8835, 2090.8708, 2092.8674, 2093.8711, 2096.9836, 2097.9961, 2100.8787, 2101.8999, 2103.9092, 2107.8730, 2119.9924, 2122.9397, 2136.9133, 2211.1047, 2217.9368, 2225.1243, 2232.0229, 2233.0840, 2238.1050, 2250.0259, 2257.9934, 2262.9368, 2263.9700, 2273.0264,
   2277.9500, 2283.1741, 2290.9570, 2307.9631, 2321.9558, 2323.9670, 2324.9824, 2335.9763, 2339.9456, 2343.0320, 2349.9844, 2352.0308, 2355.0315, 2358.0854, 2368.0815, 2369.0588, 2378.0020, 2379.0002, 2380.0007, 2381.9963, 2383.0444, 2383.9822, 2393.0020, 2394.0181,
  2400.0771, 2405.0879, 2414.1050, 2417.0933, 2421.0769, 2422.0593, 2426.0476, 2428.0725, 2430.0947, 2432.0962, 2435.0254, 2438.0706, 2444.0901, 2451.0278, 2459.9802, 2461.0254, 2501.2520, 2528.1902, 2543.2092, 2564.1965, 2705.2144, 2717.1655, 2834.2925, 2888.2483,
   2904.4053, 3130.4312, 3291.4875, 3312.3765, 3451.6833, 3454.6270
                            Mass: 49794 Score: 18
                                                                                                           Expect: 3.4e+002 Matches: 17
   Uncharacterized protein OS=Bos taurus GN=ALS2CR12 PE=4 SV=1

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss
        Ions
        Peptide

        782.3223
        781.3150
        781.3098
        6.59
        164 - 169
        0 ---
        R.CAEMQI

        918.5267
        917.5195
        917.4970
        24.4
        240 - 246
        2 ---
        K.KKAEWI

                                                                                                                                                                          R.CAEMOK.N + Oxidation (M)
918.5267 917.5195 917.4970 24.4 240 - 246 2 --- K.KKAEWEK.D

1106.5313 1105.5240 1105.5437 -17.83 155 - 163 0 --- K.LLSNEMDLR.C + Oxidation (M)

1115.5394 1114.5321 1114.5225 5.99 110 - 119 1 --- K.KHSESEDVGK.V

1181.6368 1180.6295 1180.6200 8.07 294 - 302 1 --- K.ELLKQHER.D

1295.6366 1294.6293 1294.6041 19.5 267 - 276 1 --- K.FELESEERK.K

1332.6602 1331.6529 1331.6755 -16.92 202 - 213 1 --- K.FELESEERK.K

1332.6987 1431.6914 1431.6994 -5.54 242 - 252 2 --- K.AEWEKDEKLER.E

1473.7905 1472.7832 1472.8198 -24.85 303 - 314 2 --- R.DTLQLEELRRTK.E

1527.8068 1526.7995 1526.7875 7.89 64 - 76 2 --- K.MKVHLGKQEESNK.L

1570.7814 1569.7741 1569.8111 -23.53 111 - 124 2 --- K.HSESEDVGKVKISR.T

1665.8070 1664.7997 1664.8369 -22.34 263 - 275 2 --- K.HSESEDVGKVKISR.T

1668.8596 1767.8523 1767.8712 -10.70 202 - 216 2 --- K.LAQDKLEEMGKEYK.Y + Oxidation (M)

1783.8599 1782.8526 1782.8458 3.82 95 - 109 1 --- R.EQISVTLGDEMFDRK.K + Oxidation (M)

2053.9851 2052.9778 2052.9898 -5.85 93 - 109 2 --- K.REQISVTLGDEMFDRK.K + Oxidation (M)

2211.1047 2210.0974 2210.1113 -6.29 133 - 150 1 --- K.EQISETLYVITEQMNRDHR.S

No match to: 713.4400, 713.4415, 724.3446, 728.2467, 730.2754, 732.2383, 734.2729, 735.3820, 736.332
                                                                                                                                                                         K.KKAEWEK.D
  No match to: 713.4400, 713.4415, 724.3446, 728.2467, 730.2754, 732.2383, 734.2729, 735.3820, 736.3320, 740.2330, 743.2514, 748.2947, 750.2650, 756.4777, 764.3574, 765.3959, 768.3784, 772.4155, 774.3952, 778.4551, 780.3343, 783.3115, 787.2390, 791.2662, 802.4609, 805.3347, 806.4342, 807.3921, 808.4378, 812.4002, 814.4128, 820.4252, 828.3922, 830.3668, 834.3623, 837.3794, 840.3857,
  842.5100, 845.4155, 851.3846, 856.5103, 865.3634, 869.4703, 870.5254, 871.4965, 872.6990, 888.3988, 891.4706, 893.9500, 894.4534, 897.0277, 905.4637, 911.4314, 912.4475, 913.5080, 913.5100, 925.4804, 927.4970, 930.5015, 933.4662, 935.4675, 943.4757, 951.4646, 952.4799, 957.4673, 961.4901, 962.4866, 967.4440, 969.4496, 972.4781, 974.5051, 975.4521, 977.4406, 978.4772, 979.4924, 983.4706, 985.6071, 991.4533, 993.5267, 995.5177, 999.4602, 1001.4565, 1001.5621, 1003.5043, 1007.5638, 1012.5004, 1014.5331, 1018.5130, 1022.5398, 1023.5525, 1028.5991, 1030.5259, 1035.5314, 1036.5333, 1037.5145, 1040.5127, 1042.5243, 1045.5603, 1046.5398, 1069.4846, 1037.5145, 1040.5127, 1042.5243, 1045.5603, 1060.5398, 1069.4846, 1037.5145, 1040.5127, 1042.5243, 1045.5603, 1060.5398, 1069.4846, 1037.5145, 1040.5127, 1042.5243, 1045.5603, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 1040.5127, 
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   1195.5924, 1199.6785, 1206.6066, 1215.6306, 1216.6482, 1226.5839, 1227.6051, 1231.6115, 1232.6251, 1233.6230, 1234.6500, 1235.6155, 1248.6078, 1250.6483, 1254.6526, 1255.6036, 1256.6123, 1268.6208, 1271.6423, 1276.6179, 1277.6350, 1289.6449, 1292.6322, 1294.6362,
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   1333.2076, 1334.6744, 1336.6710, 1337.6279, 1338.6300, 1338.6300, 1345.6146, 1347.6653, 1349.6800, 1349.6827, 1354.6820, 1355.6964, 1359.7053, 1360.6173, 1361.6373, 1365.6752, 1371.6718, 1375.6670, 1377.6776, 1382.6367, 1383.6619, 1387.6700, 1393.6727, 1400.6235,
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   1539.7711, 1549.7833, 1555.8657, 1558.8440, 1559.8573, 1568.7592, 1578.7899, 1606.8213, 1615.8425, 1619.7972, 1621.7831, 1628.8156
   1630.8202, 1631.8217, 1639.9263, 1644.8083, 1647.8730, 1649.8650, 1650.8523, 1658.8206, 1659.8125, 1661.8284, 1663.7981, 1669.8174,
    1677.8353, 1679.9403, 1680.8076, 1682.7780, 1697.7845, 1698.7950, 1707.7931, 1709.8029, 1710.8878, 1712.9166, 1716.8563,
   1727.8683, 1730.8236, 1731.8221, 1742.8798, 1746.1482, 1749.8406, 1751.8657, 1756.8782, 1757.8225, 1763.8152, 1765.7922, 1766.8105, 1769.4275, 1770.4087, 1773.8615, 1774.8795, 1775.0302, 1785.8483, 1786.8871, 1790.8822, 1792.7894, 1801.9315, 1804.9026, 1808.8663,
   1824.8685, 1830.8608, 1849.8231, 1851.8430, 1867.9100, 1868.9441, 1870.9304, 1880.9020, 1884.9191, 1908.8989, 1914.9821, 1916.9882, 1920.9862, 1930.9827, 1932.9813, 1934.9822, 1947.0288, 1958.9543, 1994.8763, 2011.9012, 2013.8700, 2020.9592, 2025.5920, 2042.0568,
  2047.0238, 2047.9805, 2049.9497, 2052.9905, 2058.9988, 2060.0400, 2060.0405, 2065.0427, 2066.0137, 2066.9895, 2067.9763, 2068.9128, 2070.8792, 2074.8860, 2082.0293, 2084.8977, 2086.8872, 2087.8835, 2090.8708, 2092.8674, 2093.8711, 2096.9836, 2097.9961, 2100.8787,
   2101.8999, 2103.9092, 2107.8730, 2119.9924, 2122.9397, 2136.9133, 2217.9368, 2225.1243, 2232.0229, 2233.0840, 2238.1050, 2250.0259,
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2257.9934, 2262.9368, 2263.9700, 2273.0264, 2277.9500, 2283.1741, 2290.9570, 2307.9631, 2321.9558, 2323.9670, 2324.9824, 2335.9763, 2339.9456, 2343.0320, 2349.9844, 2352.0308, 2355.0315, 2358.0854, 2368.0815, 2369.0588, 2378.0020, 2379.0002, 2380.0007, 2381.9963,
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  2564.1965, 2705.2144, 2717.1655, 2834.2925, 2888.2483, 2904.4053, 3130.4312, 3291.4875, 3312.3765, 3451.6833, 3454.6270
 G3N3V8 Mass: 69281 Score: 18
                                                                                            Expect: 3.7e+002 Matches: 12
Uncharacterized protein OS=Bos taurus GN=C3orf67 PE=4 SV=1
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  845.4155, 851.3846, 856.5103, 865.3634, 869.4703, 870.5254, 871.4965, 872.6990, 888.3988, 891.4706, 893.9500, 894.4534, 897.0277, 905.4637, 911.4314, 912.4475, 913.5080, 913.5100, 918.5267, 925.4804, 927.4970, 930.5015, 933.4662, 935.4675, 943.4757, 951.4646,
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  2459.9802, 2461.0254, 2501.2520, 2528.1902, 2543.2092, 2564.1965, 2705.2144, 2717.1655, 2834.2925, 2888.2483, 2904.4053, 3130.4312,
  3291.4875, 3312.3765, 3451.6833, 3454.6270
 F1MNR4 Mass: 58473
                                                         Score: 18
                                                                                              Expect: 3.7e+002 Matches: 11
  Uncharacterized protein OS=Bos taurus GN=C3orf67 PE=4 SV=2
   Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide
                                                                              10.4 265 - 270 1 --- K.STSRER.T
9.67 406 - 412 0 --- K.EDTSVTR.S
                                                        734.3671
                             734.3747
807.3921 806.3848 806.3770 9.67 406 - 412 0 --- K.EDTSVTR.S
979.4924 978.4852 978.4917 -6.64 143 - 151 1 --- R.GTVSMRNSK.H
995.5177 994.5104 994.4866 24.0 143 - 151 1 --- R.GTVSMRNSK.H + Oxidation (M)
1069.4846 1068.4773 1068.4546 21.3 508 - 517 0 --- K.EMNPPSPSNP.-
1292.6322 1291.6249 1291.6554 -23.61 289 - 300 0 --- K.AATVLTAMSQQR.A + Oxidation (M)
1349.6800 1348.6727 1348.6517 15.6 175 - 185 1 18 R.NNMRLSNETVR.S + Oxidation (M)
1349.6827 1348.6754 1348.6517 17.6 175 - 185 1 --- R.NNMRLSNETVR.S + Oxidation (M)
1679.9403 1678.9330 1678.9049 16.7 164 - 178 2 --- K.VLGPPPLSGRRNNMR.L + Oxidation (M)
1727.8683 1726.8610 1726.8209 23.2 149 - 163 1 --- R.NSKHQDVCH1AFGSK.V
2211.1047 2210.0974 2210.0525 20.3 435 - 453 0 --- R.NYQPSEISESELQMLASLR.R + Oxidation (M)
  No match to: 713.4400, 713.4415, 724.3446, 728.2467, 730.2754, 732.2383, 734.2729, 736.3320, 740.2330, 743.2514, 748.2947,
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   3130.4312, 3291.4875, 3312.3765, 3451.6833, 3454.6270
 O6YFP9
                                                         Score: 18
                                                                                        Expect: 3.7e+002 Matches: 6
  Cytochrome c oxidase subunit 6B2 OS=Bos taurus GN=COX6B2 PE=2 SV=1
   Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide
| No. 
  780 match to: 713.4400, 713.4415, 724.3446, 728.2467, 730.2754, 732.2383, 734.2729, 735.3820, 736.3320, 740.2330, 743.2514, 748.2947, 750.2650, 756.4777, 764.3574, 765.3959, 768.3784, 772.4155, 774.3952, 778.4551, 780.3343, 782.3223, 783.3115, 787.2390, 791.2662, 802.4609, 805.3347, 806.4342, 807.3921, 812.4002, 814.4128, 820.4252, 828.3922, 830.3668, 834.3623, 837.3794, 840.3857,
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  1773.8615, 1774.8795, 1775.0302, 1783.8599, 1785.8483, 1786.8871, 1790.8822, 1792.7894, 1801.9315, 1804.9026, 1808.8663, 1824.8685,
 17/3.8615, 17/4.8795, 17/5.0302, 1783.8599, 1785.8483, 1786.8871, 1790.8822, 1792.894, 1801.9315, 1804.9026, 1808.8663, 1824.8685, 1830.8608, 1849.8231, 1851.8430, 1867.9100, 1868.9441, 1870.9304, 1880.9020, 1884.9191, 1908.8989, 1914.9821, 1916.9882, 1920.9862, 1930.9827, 1932.9813, 1934.9822, 1947.0288, 1958.9543, 1994.8763, 2011.9012, 2013.8700, 2020.9592, 2025.5920, 2042.0568, 2047.0238, 2047.9805, 2049.9497, 2052.9905, 2053.9851, 2058.9988, 2060.0400, 2060.0405, 2065.0427, 2066.0137, 2066.9895, 2067.9763, 2068.9128, 2070.8792, 2074.8860, 2082.0293, 2084.8977, 2086.8872, 2087.8835, 2090.8708, 2092.8674, 2093.8711, 2096.9836, 2100.8787, 2101.8999,
  2103.9092, 2107.8730, 2119.9924, 2122.9397, 2136.9133, 2211.1047, 2217.9368, 2225.1243, 2232.0229, 2233.0840, 2238.1050, 2250.0259, 2257.9934, 2262.9368, 2263.9700, 2273.0264, 2277.9500, 2290.9570, 2307.9631, 2321.9558, 2323.9670, 2324.9824, 2335.9763, 2339.9456,
  2343.0320, 2349.9844, 2352.0308, 2355.0315, 2358.0854, 2368.0815, 2369.0588, 2378.0020, 2379.0002, 2380.0007, 2381.9963, 2383.0444, 2383.9822, 2393.0020, 2394.0181, 2398.0447, 2400.0771, 2405.0879, 2414.1050, 2417.0933, 2421.0769, 2422.0593, 2426.0476, 2428.0725,
  2430.0947, 2432.0962, 2435.0254, 2438.0706, 2444.0901, 2451.0278, 2459.9802, 2461.0254, 2501.2520, 2528.1902, 2543.2092, 2564.1965, 2705.2144, 2717.1655, 2834.2925, 2888.2483, 2904.4053, 3130.4312, 3291.4875, 3312.3765, 3451.6833, 3454.6270
 P11019 Mass: 26180
                                                        Score: 18
                                                                                          Expect: 3.8e+002 Matches: 15
  V-type proton ATPase subunit E 1 OS=Bos taurus GN=ATP6V1E1 PE=2 SV=1

        Observed
        Mr(expt)
        Mr(calc)
        ppm
        Start
        End Miss Ions
        Peptide

        905.4637
        904.4564
        904.4614
        -5.52
        192 - 199
        0 ---
        K.VSNTLESR.L

        975.4521
        974.4449
        974.4419
        3.07
        53 - 59
        0 ---
        K.IMEYYEK.K

        985.6071
        984.5998
        984.6080
        -8.29
        45 - 52
        1 ---
        R.LVQTQRLK.I

905.4637 904.4564 904.4614 -5.52 192 - 199 0 --- K.VSNTLESR.L
975.4521 974.4449 974.4419 3.07 53 - 59 0 --- K.IMEYYEK.K
985.6071 984.5998 984.6080 -8.29 45 - 52 1 --- R.LVOTQRIK.I
991.4533 990.4460 990.4368 9.26 53 - 59 0 --- K.IMEYYEK.K + Oxidation (M)
1158.6328 1157.6255 1157.6404 -12.85 61 - 69 2 --- K.EKQIEQQKK.I
1216.6482 1215.6409 1215.6209 16.5 51 - 59 1 --- R.LKIMEYYEK.K
1232.6251 1231.6178 1231.6158 1.63 51 - 59 1 --- R.LKIMEYYEK.K
1232.6251 3104.6450 1304.6329 9.30 70 - 80 0 --- K.IQMSNLMNQAR.L
1321.6134 1320.6061 1320.6278 -16.42 70 - 80 0 --- K.IQMSNLMNQAR.L + Oxidation (M)
1337.6279 1336.6206 1336.6227 -1.57 70 - 80 0 --- K.IQMSNLMNQAR.L + Oxidation (M)
1359.7053 1358.6980 1358.6929 3.77 88 - 99 0 --- R.DDLITDLINEAK.Q
1449.7479 1448.7406 1448.7228 12.3 69 - 80 1 --- K.KIQMSNLMNQAR.L + Oxidation (M)
1578.7899 1577.7826 1577.8017 -12.12 70 - 82 1 --- K.IQMSNLMNQAR.L + Oxidation (M)
1947.0288 1946.0215 1946.0553 -17.37 70 - 85 2 --- K.IQMSNLMNQAR.LKV. + 2 Oxidation (M)
2047.0238 2046.0165 2046.0494 -16.06 34 - 50 2 --- K.AEEEFNIEKGRLVQTQR.L
No match to: 713.4400, 713.4415, 724.3446, 728.2467, 730.2754, 732.2383, 734.2729, 735.3820, 736.3320
  No match to: 713.4400, 713.4415, 724.3446, 728.2467, 730.2754, 732.2383, 734.2729, 735.3820, 736.3320, 740.2330, 743.2514, 748.2947, 750.2650, 756.4777, 764.3574, 765.3959, 768.3784, 772.4155, 774.3952, 778.4551, 780.3343, 782.3223, 783.3115, 787.2390,
  791.2662, 802.4609, 805.3347, 806.4342, 807.3921, 808.4378, 812.4002, 814.4128, 820.4252, 828.3922, 830.3668, 834.3623, 837.3794, 840.3857, 842.5100, 845.4155, 851.3846, 856.5103, 865.3634, 869.4703, 870.5254, 871.4965, 872.6990, 888.3988, 891.4706, 893.9500,
  894.4534, 897.0277, 911.4314, 912.4475, 913.5080, 913.5100, 918.5267, 925.4804, 927.4970, 930.5015, 933.4662, 935.4675, 943.4757, 951.4646, 952.4799, 957.4673, 961.4901, 962.4866, 967.4440, 969.4496, 972.4781, 974.5051, 977.4406, 978.4772, 979.4924, 983.4706,
  993.5267, 995.5177, 999.4602, 1001.4565, 1001.5621, 1003.5043, 1007.5638, 1012.5004, 1014.5331, 1018.5130, 1022.5398, 1023.5525, 1028.5991, 1030.5259, 1035.5314, 1036.5333, 1037.5145, 1040.5127, 1042.5243, 1045.5603, 1060.5398, 1069.4846, 1075.5515, 1092.6041, 1106.5313, 1109.5087, 1111.5457, 1113.5419, 1115.5394, 1118.5659, 1121.5419, 1122.5701, 1131.5602, 1138.5428, 1149.5912, 1155.5768,
  1157.5907, 1163.6145, 1173.6122, 1177.6130, 1178.6060, 1179.5918, 1180.6001, 1181.6368, 1183.6030, 1187.6376, 1192.6014, 1193.5928, 1195.5924, 1199.6785, 1206.6066, 1215.6306, 1226.5839, 1227.6051, 1231.6115, 1233.6230, 1234.6500, 1235.6155, 1248.6078, 1250.6483,
  1254.6526, 1255.6036, 1256.6123, 1268.6208, 1271.6423, 1276.6179, 1277.6350, 1289.6449, 1292.6322, 1294.6362, 1295.6366, 1300.5895, 1303.6643, 1307.6600, 1308.6443, 1310.6051, 1315.6364, 1320.6128, 1323.6320, 1325.6456, 1331.6674, 1332.6602, 1333.2076, 1334.6744,
   1336.6710, 1338.6300, 1338.6300, 1345.6146, 1347.6653, 1349.6800, 1349.6827, 1354.6820, 1355.6964, 1360.6173, 1361.6373, 1365.6752,
  1371.6718, 1375.6670, 1377.6776, 1382.6367, 1383.6619, 1387.6700, 1393.6727, 1400.6235, 1409.7107, 1411.6742, 1427.7725, 1431.7605, 1432.6987, 1434.7190, 1466.6953, 1473.7905, 1475.7498, 1478.7303, 1479.7468, 1485.7531, 1486.7472, 1493.7345, 1495.7502, 1500.7242,
  1503.7690, 1505.8511, 1509.6786, 1520.7347, 1522.7239, 1523.7567, 1525.7864, 1527.8068, 1532.7472, 1537.7886, 1539.7711, 1549.7833
  1555.8657, 1558.8440, 1559.8573, 1568.7592, 1570.7814, 1606.8213, 1615.8425, 1619.7972, 1621.7831, 1628.8156, 1630.8202, 1631.8217,
  1639.9263, 1644.8083, 1647.8730, 1649.8650, 1650.8523, 1658.8206, 1659.8125, 1661.8284, 1663.7981, 1665.8070, 1669.8174, 1677.8353, 1679.9403, 1680.8076, 1682.7780, 1696.8055, 1697.7845, 1698.7950, 1707.7931, 1709.8029, 1710.8878, 1712.9166, 1716.8563, 1725.8188,
    1727.8683, 1730.8236, 1731.8221, 1742.8798, 1746.1482, 1749.8406, 1751.8657, 1756.8782, 1757.8225, 1763.8152, 1765.7922,
  1768.8596, 1769.4275, 1770.4087, 1773.8615, 1774.8795, 1775.0302, 1783.8599, 1785.8483, 1786.8871, 1790.8822, 1792.7894, 1801.9315,
   1804.9026, 1808.8663, 1824.8685, 1830.8608, 1849.8231, 1851.8430, 1867.9100, 1868.9441, 1870.9304, 1880.9020, 1884.9191, 1908.8989,
  1914.9821, 1916.9882, 1920.9862, 1930.9827, 1932.9813, 1934.9822, 1958.9543, 1994.8763, 2011.9012, 2013.8700, 2020.9592, 2025.5920, 2042.0568, 2047.9805, 2049.9497, 2052.9905, 2053.9851, 2058.9988, 2060.0400, 2060.0405, 2065.0427, 2066.0137, 2066.9895, 2067.9763,
  2068.9128, 2070.8792, 2074.8860, 2082.0293, 2084.8977, 2086.8872, 2087.8835, 2090.8708, 2092.8674, 2093.8711, 2096.9836, 2097.9961,
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2100.8787, 2101.8999, 2103.9092, 2107.8730, 2119.9924, 2122.9397, 2136.9133, 2211.1047, 2217.9368, 2225.1243, 2232.0229, 2233.0840, 2238.1050, 2250.0259, 2257.9934, 2262.9368, 2263.9700, 2273.0264, 2277.9500, 2283.1741, 2290.9570, 2307.9631, 2321.9558, 2323.9670,
  2324.9824, 2335.9763, 2339.9456, 2343.0320, 2349.9844, 2352.0308, 2355.0315, 2358.0854, 2368.0815, 2369.0588, 2378.0020, 2379.0002,
 2380.0007, 2381.9963, 2383.0444, 2383.9822, 2393.0020, 2394.0181, 2398.0447, 2400.0771, 2405.0879, 2414.1050, 2417.0933, 2421.0769, 2422.0593, 2426.0476, 2428.0725, 2430.0947, 2432.0962, 2435.0254, 2438.0706, 2444.0901, 2451.0278, 2459.9802, 2461.0254, 2501.2520,
  2528, 1902, 2543, 2092, 2564, 1965, 2705, 2144, 2717, 1655, 2834, 2925, 2888, 2483, 2904, 4053, 3130, 4312, 3291, 4875, 3312, 3765, 3451, 6833,
 F1MLG8 Mass: 9765
                                                     Score: 18 Expect: 3.8e+002 Matches: 6
  Uncharacterized protein OS=Bos taurus GN=SMIM4 PE=4 SV=2
   Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss Ions
        Peptide

        925.4804
        924.4731
        924.4930
        -21.53
        18 - 24
        1 ---
        K.QRFGVYR.F

        1037.5145
        1036.5072
        1036.5050
        2.17
        58 - 65
        1 ---
        K.ASERQYQR.R

        1193.5928
        1192.5855
        1192.6061
        -17.24
        58 - 66
        2 ---
        K.ASERQYQRR.L

        1354.6820
        1353.6747
        1353.6976
        -16.88
        14 - 24
        2 ---
        R.MPGKQRFGVYR.F + Oxidation (M)

        1532.7472
        1531.7399
        1531.7419
        -1.32
        45 - 56
        1 ---
        R.VGQETFYDVYR.K

        1631.8217
        1630.8144
        1630.8104
        2.49
        43 - 55
        1 ---
        K.VRVGQETFYDVYR.R

  748.2947, 750.2650, 756.4777, 764.3574, 765.3959, 768.3784, 772.4155, 774.3952, 778.4551, 780.3343, 782.3223, 783.3115, 787.2390, 791.2662, 802.4609, 805.3347, 806.4342, 807.3921, 808.4378, 812.4002, 814.4128, 820.4252, 828.3922, 830.3668, 834.3623, 837.3794,
 840.3857, 842.5100, 845.4155, 851.3846, 856.5103, 865.3634, 869.4703, 870.5254, 871.4965, 872.6990, 888.3988, 891.4706, 893.4554, 897.0277, 905.4637, 911.4314, 912.4475, 913.5080, 913.5100, 918.5267, 927.4970, 930.5015, 933.4662, 935.4675, 943.4757, 951.4646, 952.4799, 957.4673, 961.4901, 962.4866, 967.4440, 969.4496, 972.4781, 974.5051, 975.4521, 977.4406, 978.4772, 979.4924, 983.4706, 985.6071, 991.4533, 993.5267, 995.5177, 999.4602, 1001.4565, 1001.5621, 1003.5043, 1007.5638, 1012.5004, 1014.5331,
  1018.5130, 1022.5398, 1023.5525, 1028.5991, 1030.5259, 1035.5314, 1036.5333, 1040.5127, 1042.5243, 1045.5603, 1060.5398, 1069.4846,
  1075.5515, 1092.6041, 1106.5313, 1109.5087, 1111.5457, 1113.5419, 1115.5394, 1118.5659, 1121.5419, 1122.5701, 1131.5602, 1138.5428, 1149.5912, 1155.5768, 1157.5907, 1158.6328, 1163.6145, 1173.6122, 1177.6130, 1178.6060, 1179.5918, 1180.6001, 1181.6368, 1183.6030,
  187.6376, 1192.6014, 1195.5924, 1199.6785, 1206.6066, 1215.6306, 1216.6482, 1226.5839, 1227.6051, 1231.6115, 1232.6251, 1233.6230, 1234.6500, 1235.6155, 1248.6078, 1250.6483, 1254.6526, 1255.6036, 1256.6123, 1268.6208, 1271.6423, 1276.6179, 1277.6350, 1289.6449, 1292.6322, 1294.6362, 1295.6366, 1300.5895, 1303.6643, 1305.6523, 1307.6600, 1308.6443, 1310.6051, 1315.6364, 1320.6128, 1321.6134,
  1323.6320, 1325.6456, 1331.6674, 1332.6602, 1333.2076, 1334.6744, 1336.6710, 1337.6279, 1338.6300, 1338.6300, 1345.6146, 1347.6653, 1349.6800, 1349.6827, 1355.6964, 1359.7053, 1360.6173, 1361.6373, 1365.6752, 1371.6718, 1375.6670, 1377.6776, 1382.6367, 1383.6619,
  1387.6700, 1393.6727, 1400.6235, 1409.7107, 1411.6742, 1427.7725, 1431.7605, 1432.6987, 1434.7190, 1449.7479, 1466.6953, 1473.7905, 1475.7498, 1478.7303, 1479.7468, 1485.7531, 1486.7472, 1493.7345, 1495.7502, 1500.7242, 1503.7690, 1505.8511, 1509.6786, 1520.7347,
  1522.7239, 1523.7567, 1525.7864, 1527.8068, 1537.7886, 1539.7711, 1549.7833, 1555.8657, 1558.8440, 1559.8573, 1568.7592, 1570.7814, 1578.7899, 1606.8213, 1615.8425, 1619.7972, 1621.7831, 1628.8156, 1630.8202, 1639.9263, 1644.8083, 1647.8730, 1649.8650, 1650.8523, 1658.8206, 1659.8125, 1661.8284, 1663.7981, 1665.8070, 1669.8174, 1677.8353, 1679.9403, 1680.8076, 1682.7780, 1696.8055, 1697.7845,
  1698.7950, 1707.7931, 1709.8029, 1710.8878, 1712.9166, 1716.8563, 1725.8188, 1727.8683, 1730.8236, 1731.8221, 1742.8798, 1746.1482,
   1749.8406, 1751.8657, 1756.8782, 1757.8225, 1763.8152, 1765.7922, 1766.8105, 1768.8596, 1769.4275, 1770.4087, 1773.8615, 1774.8795,
  1775.0302, 1783.8599, 1785.8483, 1786.8871, 1790.8822, 1792.7894, 1801.9315, 1804.9026, 1808.8663, 1824.8685, 1830.8608, 1849.8231,
  1851.8430, 1867.9100, 1868.9441, 1870.9304, 1880.9020, 1884.911, 1908.8889, 1914.9821, 1916.9882, 1920.9862, 1930.9827, 1932.9813, 1934.9822, 1947.0288, 1958.9543, 1994.8763, 2011.9012, 2013.8700, 2020.9592, 2025.5920, 2042.0568, 2047.0238, 2047.9805, 2049.9497,
 2052.9905, 2053.9851, 2058.9988, 2060.0400, 2060.0405, 2065.0427, 2066.0137, 2066.9895, 2067.9763, 2068.9128, 2070.8792, 2074.8860, 2082.0293, 2084.8977, 2086.8872, 2087.8835, 2090.8708, 2092.8674, 2093.8711, 2096.9836, 2097.9961, 2100.8787, 2101.8999, 2103.9092,
 2107.8730, 2119.9924, 2122.9397, 2136.9133, 2211.1047, 2217.9368, 2225.1243, 2232.0229, 2233.0840, 2238.1050, 2250.0259, 2257.9934, 2262.9368, 2263.9700, 2273.0264, 2277.9500, 2283.1741, 2290.9570, 2307.9631, 2321.9558, 2323.9670, 2324.9824, 2335.9763, 2339.9456,
 2343.0320, 2349.9844, 2352.0308, 2355.0315, 2358.0854, 2368.0815, 2369.0588, 2378.0020, 2379.0002, 2380.0007, 2381.9963, 2383.0444, 2383.9822, 2393.0020, 2394.0181, 2398.0447, 2400.0771, 2405.0879, 2414.1050, 2417.0933, 2421.0769, 2422.0593, 2426.0476, 2428.0725,
 2430.0947, 2432.0962, 2435.0254, 2438.0706, 2444.0901, 2451.0278, 2459.9802, 2461.0254, 2501.2520, 2528.1902, 2543.2092, 2564.1965, 2705.2144, 2717.1655, 2834.2925, 2888.2483, 2904.4053, 3130.4312, 3291.4875, 3312.3765, 3451.6833, 3454.6270
                                                                                     Expect: 3.9e+002 Matches: 10
 E1BEC7 Mass: 19673
                                                     Score: 18
 Mimitin, mitochondrial OS=Bos taurus GN=NDUFAF2 PE=4 SV=2

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss Ions
        Peptide

        764.3574
        763.3501
        763.3435
        8.66
        1 - 6
        0 --- - - MGWSQI

                                                                             780.3343 779.3271 779.3385 -14.60 1 - 6 0 --- -.MGWSQR.L + Oxidation (M)
1109.5087 1108.5014 1108.5005 0.84 94 - 101 1 --- K.CREEIQMK.S + Oxidation (M)
1138.5428 1137.5355 1137.5382 -2.37 32 - 39 0 --- K.YYYIPEYK.N
1320.6128 1319.6055 1319.6101 -3.47 80 - 90 0 --- R.QTPPTMEEIMK.N + Oxidation (M)
1449.7479 1448.7406 1448.7711 -21.02 1 - 12 1 --- -.MGWSQR.FGVIR.R
1559.8573 1558.8500 1558.8315 11.9 14 - 27 2 --- R.ALSKEVKEQVGTDR.F
1606.8213 1605.8140 1605.8111 1.83 18 - 31 2 --- K.EVKEQVGTDR.FGNK.Y
1707.7931 1706.7858 1706.7855 0.19 80 - 93 1 --- R.QTPPTMEEIMKNEK.C + 2 Oxidation (M)
1932.9813 1931.9740 1931.9444 15.3 78 - 93 2 --- K.TRQTPPTMEEIMKNEK.C

No match to: 713.4400, 713.4415, 724.3446, 728.2467, 730.2754, 732.2383, 734.2729, 735.3820, 736.3320, 740.2330, 743.2514, 748.2947, 750.2650, 756.4777, 765.3959, 768.3784, 772.4155, 774.3952, 778.4551, 782.3223, 783.3115, 787.2390, 791.2662, 803
                           779.3271
                                                   779.3385 -14.60
  748.2947, 750.2650, 756.4777, 765.3959, 768.3784, 772.4155, 774.3952, 778.4551, 782.3223, 783.3115, 787.2390, 791.2662, 802.4609, 805.3347, 806.4342, 807.3921, 808.4378, 812.4002, 814.4128, 820.4252, 828.3922, 830.3668, 834.3623, 837.3794, 840.3857, 842.5100,
  845.4155, 851.3846, 856.5103, 865.3634, 869.4703, 870.5254, 871.4965, 872.6990, 888.3988, 891.4706, 893.9500, 894.4534, 897.0277,
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  2400.0771, 2405.0879, 2414.1050, 2417.0933, 2421.0769, 2422.0593, 2426.0476, 2428.0725, 2430.0947, 2432.0962, 2435.0254, 2438.0706,
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2444.0901, 2451.0278, 2459.9802, 2461.0254, 2501.2520, 2528.1902, 2543.2092, 2564.1965, 2705.2144, 2717.1655, 2834.2925, 2888.2483, 2904.4053, 3130.4312, 3291.4875, 3312.3765, 3451.6833, 3454.6270 Score: 18 Expect: 4.1e+002 Matches: 6 Mass: 7445 FXYD2 protein OS=Bos taurus GN=FXYD2 PE=2 SV=1
 FAYING
 Observed
 Mr(expt)
 Mr(calc)
 ppm
 Start
 End Miss Ions
 Peptide

 894.4534
 893.4661
 893.4654
 -21.58
 48 - 54
 2 -- R.FRCGAKR.Q

 1012.5004
 1011.4931
 1011.5145
 -21.08
 50 - 57
 2 -- R.CGAKRQHR.Q
 1012.5004 1011.4931 1011.5145 -21.08 R.CGAKROHR.O 2 - 11 1 --- M.DRWYLGGSPK.E 1178.6060 1177.5987 1177.5880 9.11 1192.6014 1191.5981 1191.5996 -4.62 55 - 64 1 --- R.QHRQIPEDGL.1325.6456 1324.6383 1324.6234 11.3 1 - 11 1 --- MDRWYLGGSPK.E + Oxidation (M)
13130.4312 3129.4239 3129.3814 13.6 1 - 25 2 --- -- MDRWYLGGSPKENEDPPYYDYETVR.N

No match to: 713.4400, 713.4415, 724.3446, 728.2467, 730.2754, 732.2383, 734.2729, 735.3820, 736.3320, 740.2330, 743.2514,
748.2947, 750.2650, 756.4777, 764.3574, 765.3959, 768.3784, 772.4155, 774.3952, 778.4551, 780.3343, 782.3223, 783.3115, 787.2390,
791.2662, 802.4609, 805.3347, 806.4342, 807.3921, 808.4378, 812.4002, 814.4128, 820.4252, 828.3922, 830.3668, 834.3623, 837.3794, 840.3857, 842.5100, 845.4155, 851.3846, 856.5103, 865.3634, 869.4703, 870.5254, 871.4965, 872.6990, 888.3988, 891.4706, 893.9500, 897.0277, 905.4637, 911.4314, 912.4475, 913.5080, 913.5100, 918.5267, 925.4804, 927.4970, 930.5015, 933.4662, 935.4675, 943.4757, 951.4646, 952.4799, 957.4673, 961.4901, 962.4866, 967.4440, 969.4496, 972.4781, 974.5051, 975.4521, 977.4406, 978.4772, 979.4924, 983.4706, 985.6071, 991.4533, 993.5267, 995.5177, 999.4602, 1001.4565, 1001.5621, 1003.5043, 1007.5638, 1014.5331, 1018.5130, 1022.5398, 1023.5525, 1028.5991, 1030.5259, 1035.5314, 1036.5333, 1037.5145, 1040.5127, 1042.5243, 1045.5603, 1060.5398, 1069.4846, 1075.5515, 1092.6041, 1106.5313, 1109.5087, 1111.5457, 1113.5419, 1115.5394, 1118.5659, 1121.5419, 1122.5701, 1131.5602, 1138.5428, 1149.5912, 1155.5768, 1157.5907, 1158.6328, 1163.6145, 1173.6122, 1177.6130, 1179.5918, 1180.6001, 1181.6368, 1183.6030, 1187.6376, 1193.5928, 1195.5924, 1199.6785, 1206.6066, 1215.6306, 1216.6482, 1226.5839, 1227.6051, 1231.6115, 1232.6251, 1233.6230, 1234.6500, 1235.6155, 1248.6078, 1250.6483, 1254.6526, 1255.6036, 1256.6123, 1268.6208, 1271.6423, 1276.6179, 1277.6350, 1289.6449, 1292.6322, 1294.6362, 1295.6366, 1300.5895, 1303.6643, 1305.6523, 1307.6600, 1308.6443, 1310.6051, 1315.6364, 1320.6128, 1321.6134, 1323.6320, 1331.6674, 1332.6602, 1333.2076, 1334.6744, 1336.6710, 1337.6279, 1338.6300, 1338.6300, 1345.6146, 1347.6653, 1349.6800, 1349.6827, 1354.6820, 1355.6964, 1359.7053, 1360.6173, 1361.6373, 1365.6752, 1371.6718, 1375.6670, 1377.6776, 1382.6367, 1383.6619, 1387.6700, 1393.6727, 1400.6235, 1409.7107, 1411.6742, 1427.7725, 1431.7605, 1432.6987, 1434.7190, 1449.7479, 1466.6953, 1473.7905, 1475.7498, 1478.7303, 1479.7468, 1485.7531, 1486.7472, 1493.7345, 1495.7502, 1500.7242, 1503.7690, 1505.8511, 1509.6786, 1520.7347, 1522.7239, 1523.7567, 1525.7864, 1527.8068, 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2047.0238, 2047.9805, 2049.9497, 2052.9905, 2053.9851, 2058.9988, 2060.0400, 2060.0405, 2065.0427, 2066.0137, 2066.9895, 2067.9763, 2068.9128, 2070.8792, 2074.8860, 2082.0293, 2084.8977, 2086.8872, 2087.8835, 2090.8708, 2092.8674, 2093.8711, 2096.9836, 2097.9961, 2100.8787, 2101.8999, 2103.9092, 2107.8730, 2119.9924, 2122.9397, 2136.9133, 2211.1047, 2217.9368, 2225.1243, 2232.0229, 2233.0840, 2238.1050, 2250.0259, 2257.9934, 2262.9368, 2263.9700, 2273.0264, 2277.9500, 2283.1741, 2290.9570, 2307.9631, 2321.9558, 2323.9670, 2324.9824, 2355.9763, 2339.9456, 2343.0320, 2349.9844, 2352.0308, 2355.0315, 2358.0854, 2368.0815, 2369.0588, 2378.0020, 2379.0002, 2380.0007, 2381.9963, $2383.0444,\ 2383.9822,\ 2393.0020,\ 2394.0181,\ 2398.0447,\ 2400.0771,\ 2405.0879,\ 2414.1050,\ 2417.0933,\ 2421.0769,\ 2422.0593,\ 2426.0476,\ 2428.0725,\ 2430.0947,\ 2432.0962,\ 2435.0254,\ 2438.0706,\ 2444.0901,\ 2451.0278,\ 2459.9802,\ 2461.0254,\ 2501.2520,\ 2528.1902,\ 2543.2092,\ 2436.0947,\ 2436$ 2564.1965, 2705.2144, 2717.1655, 2834.2925, 2888.2483, 2904.4053, 3291.4875, 3312.3765, 3451.6833, 3454.6270 **31.** F1MIT2 **Mass:** 31839 **Score:** 18 Expect: 4.2e+002 Matches: 13 | Dispersion | Factor | Aproximation | Factor | Aproximation | Dispersion | Dispers Transcription elongation factor A protein 1 OS=Bos taurus GN=TCEA1 PE=4 SV=1 748.2947, 750.2650, 756.4777, 764.3574, 765.3959, 768.3784, 772.4155, 774.3952, 778.4551, 780.3343, 782.3223, 783.3115, 787.2390, 791.2662, 802.4609, 805.3347, 806.4342, 807.3921, 808.4378, 812.4002, 814.4128, 820.4252, 828.3922, 830.3668, 834.3623, 837.3794, 840.3857, 842.5100, 845.4155, 851.3846, 856.5103, 865.3634, 869.4703, 870.5254, 871.4965, 872.6990, 888.3988, 891.4706, 893.9500, 894.4534, 897.0277, 905.4637, 911.4314, 912.4475, 913.5080, 913.5100, 913.5100, 913.5267, 925.4804, 930.5015, 933.4662, 935.4675, 943.4757, 951.4646, 952.4799, 957.4673, 961.4901, 962.4866, 967.4440, 969.4496, 972.4781, 974.5051, 975.4521, 977.4406, 978.4772, 979.4924, 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3312.3765, 3451.6833, 3454.6270

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Mass: 117436 Score: 18
                                                                                                           Expect: 4.2e+002 Matches: 34
  Uncharacterized protein OS=Bos taurus GN=SYCP1 PE=4 SV=1
   Observed Mr(expt) Mr(calc) ppm Start End Miss Ions
                                                                                      -17.10
                                                                                                              556 - 562
                                 932.4590
                                                               932.4749
                                                                                                                                                                          R.QEERMLK.Q
   985.6071
                               984.5998
                                                              984.6080 -8.25
                                                                                                                140 - 147
                                                                                                                                                                         R.KIIEAORK.A
 1001.5621 1000.5548 1000.5440
                                                                                         10.8
                                                                                                                 669 - 677
                                                                                                                                                                          K.LEIELEGAK.Q
1001.5621 1000.5346 1000.5440 10.0 05.0 05.0 1.0 1000.5259 1029.5186 1029.5203 -1.61 132 - 139 1 --- K.ENKLQENR.K 1045.5603 1044.5530 1044.5790 -24.86 238 - 245 1 --- R.LEMHFKLK.E
1043.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3330 1044.3
1173.6122 1172.6049 1172.6149 -8.52 172 - 161 1 --- K.DLIRANNAIR.R. 1192.6014 1191.5941 1191.6169 -19.11 803 - 812 1 --- K.DLIRANNAIR.R. 1199.6785 1198.6712 1198.6921 -17.43 710 - 720 1 --- K.VVADEAVKLQK.E 1231.6115 1230.6042 1230.5952 7.30 546 - 555 1 --- K.QQEDINNSKR.Q 1234.6500 1233.6427 1233.6605 -14.38 453 - 462 1 --- K.QFEKIAEELK.E
 1276.6179 1275.6106 1275.6418 -24.48 594 - 604 2 --- K.SKLDRSEENAR.S
1277.6350 1276.6277 1276.6299 -1.70 637 - 646 0 --- K.FIEELQQENK.A
 1294.6362 1293.6289 1293.6486 -15.19 417 - 427 1 --- K.SSELEEMTKLK.N
 1295.6366 1294.6293 1294.6266
                                                                                           2.14
                                                                                                              847 - 858 1 --- R.SFPSANQSRSSK.D
770 - 780 0 --- K.ASLETELCNLR.N
 1305.6523 1304.6450 1304.6394
                                                                                            4.30
                                                                                       9.26 954 - 966 0 --- K.TPSSLTTPGSMQK.S
5.76 545 - 555 2 --- K.KQQEDINNSKR.Q
 1334.6744 1333.6671 1333.6548
 1359.7053 1358.6980 1358.6902
 1431.7605 1430.7532 1430.7261
                                                                                            18.9
                                                                                                                                                1 --- K.IAEMVALMEKHK.H + 2 Oxidation (M)
 1478.7303 1477.7230 1477.7446 -14.63 953 - 966 1 --- K.KTPSSLTTPGSMQK.S + Oxidation (M)
1494.7429 1494.7752 -21.58 283 - 294 1 --- K.MRELTFLLEEGR.N

1650.8523 1649.8450 1649.8294 9.48 417 - 430 2 --- K.SELEEMTKLKNNK.E

1663.7981 1662.7908 1662.7883 1.55 599 - 612 1 --- V.CTT.
 1663.7981 1662.7988 1662.7883 1.55 599 - 612 1 --- K.SEENARSIECEVIK.R
1669.8174 1668.8101 1668.8318 -13.00 789 - 801 2 --- K.HLETEREEKEELK.R
1725.8188 1724.8115 1724.8443 -19.01 238 - 250 2 --- R.LEMFKLKEDYEK.I + Oxidation (M)
1773.8615 1772.8542 1772.8401 7.97 546 - 559 2 --- K.QQEDINNSKRQEER.M
1804.9026 1803.8953 1803.9400 -24.79 950 - 966 2 --- R.TPKKTPSSLTTPGSMQK.S + Oxidation (M)
1947.0288 1946.0215 1946.0619 -20.73 383 - 398 2 --- K.TIICNLKKLLTTEQQR.L
2058.9988 2057.9915 2058.0051 -6.62 318 - 334 1 --- K.QDHLTSELEDIKMSLQR.S + Oxidation (M)
 2060.0400 2059.0327 2059.0797 -22.80
                                                                                                              391 - 407 2 --- K.LLTTEQQRLEKSEDELK.I
 2060.0405 2059.0332 2059.0797 -22.55
2066.9895 2065.9822 2066.0136 -15.19
                                                                                                                391 - 407
                                                                                                                                               2 --- K.LLTTEOORLEKSEDELK.T
                                                                                                                954 - 972 2 ---
                                                                                                                                                                        K.TPSSLTTPGSMOKSETMRK.T
 No match to: 713.4400, 713.4415, 724.3446, 728.2467, 730.2754, 732.2383, 734.2729, 735.3820, 736.3320, 740.2330, 743.2514, 748.2947, 750.2650, 756.4777, 764.3574, 765.3959, 768.3784, 772.4155, 774.3952, 778.4551, 780.3343, 782.3223, 783.3115, 787.2390, 791.2662, 802.4609, 805.3347, 806.4342, 807.3921, 808.4378, 812.4002, 814.4128, 820.4252, 828.3922, 830.3668, 834.3623, 837.3794, 840.3857, 842.5100, 845.4155, 851.3846, 856.5103, 865.3634, 869.4703, 870.5254, 871.4965, 872.6990, 888.3988, 891.4706, 893.9500, 803.478, 804.278, 804.278, 804.278, 805.278, 805.278, 805.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806.278, 806
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  1549.7833, 1555.8657, 1558.8440, 1559.8573, 1568.7592, 1570.7814, 1578.7899, 1606.8213, 1615.8425, 1619.7972, 1621.7831, 1628.8156,
  1630.8202, 1631.8217, 1639.9263, 1644.8083, 1647.8730, 1649.8650, 1658.8206, 1659.8125, 1661.8284, 1665.8070, 1677.8353, 1679.9403,
  1680.8076, 1682.7780, 1696.8055, 1697.7845, 1698.7950, 1707.7931, 1709.8029, 1710.8878, 1712.9166, 1716.8563, 1727.8683, 1730.8236, 1731.8221, 1742.8798, 1746.1482, 1749.8406, 1751.8657, 1756.8782, 1757.8225, 1763.8152, 1765.7922, 1766.8105, 1768.8596, 1769.4275,
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 2052.9905, 2053.9851, 2065.0427, 2066.0137, 2067.9763, 2068.9128, 2070.8792, 2074.8860, 2082.0293, 2084.8977, 2086.8872, 2087.8835, 2090.8708, 2092.8674, 2093.8711, 2096.9836, 2097.9961, 2100.8787, 2101.8999, 2103.9092, 2107.8730, 2119.9924, 2122.9397, 2136.9133,
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  2904.4053, 3130.4312, 3291.4875, 3312.3765, 3451.6833, 3454.6270
 Q3ZBL3
                          Mass: 49458 Score: 17
                                                                                                         Expect: 4.5e+002 Matches: 17
  Inositol hexakisphosphate kinase 2 OS=Bos taurus GN=IP6K2 PE=2 SV=1
   Observed
                                Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide
| Teach | Teac
                                                                                                              1 - 15 2 --- -.MSPAFRAMDVEPRDK.G
1 - 15 2 --- -.MSPAFRAMDVEPRDK.G + Oxidation (M)
 1749.8406 1748.8333 1748.8338 -0.26
 1765.7922 1764.7849 1764.8287 -24.81
1768.8596 1767.8523 1767.8136 21.9 226 - 241 1 --- R.QHGDDASEEKAANQIR.K
1801.9315 1800.9242 1800.9410 -9.31 140 - 153 2 --- K.VKSHKLEEEFEWLK.K
                                                                                                              62 - 80 1 --- K.FTPQYKGVVSVSFEEDEDR.N
174 - 191 2 --- K.HYNPWSMKCHQQQLQRMK.E
 2232.0229 2231.0156 2231.0383 -10.14
 2400.0771 2399.0698 2399.1198 -20.81
 2432.0962 2431.0889 2431.1096 -8.50 174 - 191 2 ---
2543.2092 2542.2019 2542.2314 -11.61 48 - 67 2 ---
                                                                                                                                                                          K.HYNPWSMKCHQQQLQRMK.E + 2 Oxidation (M)
                                                                                                                                                                         R.EHOFYETLPAEMRKFTPOYK.G
 3451.6833 3450.6760 3450.5975 22.8 243 - 273 1 --- K.CQQSTSAVIGVRVCGMQVYQAGSGQLMFMNK.Y + Oxidation (M)
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No match to: 713.4400, 713.4415, 728.2467, 730.2754, 732.2383, 734.2729, 735.3820, 736.3320, 740.2330, 743.2514, 748.2947, 750.2650, 756.4777, 764.3574, 765.3959, 768.3784, 772.4155, 774.3952, 780.3343, 782.3223, 783.3115, 787.2390, 791.2662, 802.4609, 805.3347, 806.4342, 807.3921, 808.4378, 812.4002, 814.4128, 820.4252, 828.3922, 830.3668, 834.3623, 837.3794, 840.3857, 842.5100,
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  2528.1902. 2564.1965. 2705.2144. 2717.1655. 2834.2925. 2888.2483. 2904.4053. 3130.4312. 3291.4875. 3312.3765. 3454.6270
                   Mass: 16931 Score: 17
                                                                                  Expect: 4.6e+002 Matches: 8
 Glia maturation factor gamma OS=Bos taurus GN=GMFG PE=2 SV=1
   Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide
No match to: 713.4400, 713.4415, 724.3446, 728.2467, 730.2754, 732.2383, 734.2729, 735.3820, 736.3320, 740.2330, 743.2514, 748.2947, 750.2650, 756.4777, 764.3574, 765.3959, 768.3784, 772.4155, 778.4551, 780.3343, 782.3223, 783.3115, 787.2390, 791.2662,
  802.4609, 805.3347, 806.4342, 807.3921, 808.4378, 812.4002, 814.4128, 820.4252, 828.3922, 830.3668, 834.3623, 837.3794, 840.3857, 842.5100, 845.4155, 851.3846, 856.5103, 865.3634, 869.4703, 870.5254, 871.4965, 872.6990, 888.3988, 891.4706, 893.9500, 894.4534,
 842.5100, 843.4155, 851.3846, 856.5103, 865.3634, 865.4703, 870.5274, 871.4965, 872.6990, 888.3988, 891.4706, 893.9500, 894.4534, 897.0277, 911.4314, 912.4475, 913.5500, 913.5100, 918.5267, 925.4804, 927.4970, 930.5515, 933.4662, 935.4675, 943.4757, 951.4646, 952.4799, 957.4673, 961.4901, 962.4866, 967.4440, 969.4496, 972.4781, 974.5051, 975.4521, 977.4406, 978.4772, 979.4924, 983.4706, 985.6071, 991.4533, 993.5267, 995.5177, 999.4602, 1001.4565, 1001.5621, 1003.5043, 1007.5638, 1012.5004, 1014.5331, 1018.5130, 1022.5398, 1023.5525, 1028.5991, 1030.5259, 1035.5314, 1036.5333, 1037.5145, 1040.5127, 1042.5243, 1045.5603, 1060.5398, 1069.4846, 1075.5515, 1022.6041, 1106.5313, 1109.5087, 1111.5457, 1113.5409, 1115.5394, 1118.5659, 1121.5419, 1122.5701, 1131.5602, 1138.5428,
  1149.5912, 1157.5907, 1158.6328, 1163.6145, 1173.6122, 1177.6130, 1178.6060, 1179.5918, 1180.6001, 1181.6368, 1183.6030, 1187.6376, 1192.6014, 1193.5928, 1195.5924, 1199.6785, 1206.6066, 1215.6306, 1216.6482, 1226.5839, 1227.6051, 1231.6115, 1232.6251, 1233.6230,
  1234.6500, 1248.6078, 1250.6483, 1254.6526, 1255.6036, 1256.6123, 1268.6208, 1271.6423, 1276.6179, 1277.6350, 1289.6449, 1294.6362,
  1295.6366, 1300.5895, 1303.6643, 1305.6523, 1307.6600, 1308.6443, 1310.6051, 1315.6364, 1320.6128, 1321.6134, 1323.6320, 1325.6456, 1331.6674, 1332.6602, 1333.2076, 1334.6744, 1336.6710, 1337.6279, 1338.6300, 1338.6300, 1345.6146, 1347.6653, 1349.6800, 1349.6827,
 1354.6820, 1355.6964, 1359.7053, 1360.6173, 1361.6373, 1365.6752, 1371.6718, 1375.6670, 1377.6776, 1382.6367, 1383.6619, 1387.6700, 1393.6727, 1400.6235, 1409.7107, 1411.6742, 1427.7725, 1431.7605, 1432.6987, 1434.7190, 1466.6953, 1473.7905, 1475.7498, 1478.7303,
  1479.7468, 1485.7531, 1486.7472, 1493.7345, 1495.7502, 1500.7242, 1503.7690, 1505.8511, 1509.6786, 1520.7347, 1522.7239, 1523.7567, 1525.7864, 1527.8068, 1532.7472, 1537.7886, 1539.7711, 1555.8657, 1558.8440, 1559.8573, 1568.7592, 1570.7814, 1578.7899, 1606.8213,
  1615.8425, 1619.7972, 1621.7831, 1628.8156, 1630.8202, 1631.8217, 1639.9263, 1644.8083, 1647.8730, 1649.8650, 1650.8523, 1658.8206,
  1659.8125, 1661.8284, 1663.7981, 1665.8070, 1669.8174, 1677.8353, 1679.9403, 1680.8076, 1682.7780, 1696.8055, 1697.7845, 1698.7950, 1707.7931, 1709.8029, 1710.8878, 1712.9166, 1716.8563, 1725.8188, 1727.8683, 1730.8236, 1731.8221, 1742.8798, 1746.1482, 1749.8406,
  1751.8657, 1756.8782, 1757.8225, 1763.8152, 1765.7922, 1766.8105, 1768.8596, 1769.4275, 1770.4087, 1773.8615, 1774.8795, 1775.0302, 1783.8599, 1785.8483, 1786.8871, 1790.8822, 1792.7894, 1801.9315, 1804.9026, 1808.8663, 1824.8685, 1830.8608, 1849.8231, 1851.8430,
  1867.9100, 1868.9441, 1870.9304, 1880.9020, 1884.9191, 1908.8989, 1914.9821, 1916.9882, 1920.9862, 1930.9827, 1932.9813, 1934.9822, 1947.0288, 1958.9543, 1994.8763, 2011.9012, 2013.8700, 2020.9592, 2025.5920, 2047.0238, 2047.9805, 2049.9497, 2052.9905, 2053.9851,
  2058.9988, 2060.0400, 2060.0405, 2065.0427, 2066.0137, 2066.9895, 2067.9763, 2068.9128, 2070.8792, 2074.8860, 2082.0293, 2084.8977
 2086.8872, 2087.8835, 2090.8708, 2092.8674, 2093.8711, 2096.9836, 2097.9961, 2100.8787, 2101.8999, 2103.9092, 2107.8730, 2119.9924, 2122.9397, 2136.9133, 2211.1047, 2217.9368, 2225.1243, 2232.0229, 2233.0840, 2238.1050, 2250.0259, 2257.9934, 2262.9368, 2263.9700,
 2273.0264, 2277.9500, 2283.1741, 2290.9570, 2307.9631, 2321.9558, 2323.9670, 2324.9824, 2335.9763, 2339.9456, 2343.0320, 2349.9844, 2352.0308, 2355.0315, 2358.0854, 2368.0815, 2369.0588, 2378.0020, 2379.0002, 2380.0007, 2381.9963, 2383.0444, 2383.9822, 2393.0020,
 2394.0181, 2398.0447, 2400.0771, 2405.0879, 2414.1050, 2417.0933, 2421.0769, 2422.0593, 2426.0476, 2428.0725, 2430.0947, 2432.0962, 2435.0254, 2438.0706, 2444.0901, 2451.0278, 2459.9802, 2461.0254, 2501.2520, 2528.1902, 2543.2092, 2564.1965, 2705.2144, 2717.1655,
  2834.2925, 2888.2483, 2904.4053, 3130.4312, 3291.4875, 3312.3765, 3451.6833, 3454.6270
                 Mass: 106272 Score: 17
                                                                                   Expect: 4.7e+002 Matches: 30
  Uncharacterized protein OS=Bos taurus GN=BCLAF1 PE=4 SV=2
   Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide
                                                 806.3817
                                                                           3.86
                                                                                         1 - 7 1 --- -.MGRSNSR.S
60 - 65 1 --- R.DYRNNR.G
                                                                                                                                     -.MGRSNSR.S
   807.3921
                          806.3848
                                                 836.3889 -20.05
   837.3794
                         836.3721
                                                844.3967 13.7 729 - 734 1 --- K.DYKEYK.S

893.4315 16.3 17 - 24 1 --- R.SQSSRSR.S

904.4614 -5.52 160 - 167 1 --- R.GSQEKQTK.K

932.4464 13.5 422 - 429 0 --- K.NFATTSHR.N

971.4784 -7.85 738 - 745 2 --- K.DDSKHKSR.E
   845.4155
                         844.4083
   894.4534 893.4461
   905 4637
                         904.4564
                        932.4590
                        971 4708
   972 4781
971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971.4706 971
                                                                                      135 - 145 2 --- R.SSRSPRSSSSR.S
4 - 14 2 --- R.SNSRSHSSRSK.S
685 - 694 2 --- K.KLRCDSADLR.H
 1193.5928 1192.5855 1192.5908 -4.45
 1232.6251 1231.6178 1231.6017
 1233.6230 1232.6157 1232.6295 -11.20
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    1308.6443
    1307.6370
    1307.6622
    -19.26
    844 - 853
    2 ---
    K.SKKYFLHDDR.D

    1310.6051
    1309.5978
    1309.5746
    17.7
    752 - 765
    0 ---
    R.SSSSASPSSPSSR.E

    1325.6456
    1324.6383
    1324.6524
    -10.62
    786 - 797
    0 ---
    K.EYSGFAGVSRPR.G

 1331.6674 1330.6601 1330.6557 3.29 507 - 517 0 --- K.DLFDYSPPLHK.N
1336.6710 1335.6637 1335.6895 -19.29 518 - 528 2 --- K.NLDAREKSTFR.E
No match to: 713.4400, 713.4415, 724.3446, 728.2467, 730.2754, 732.2383, 734.2729, 735.3820, 736.3320, 740.2330, 743.2514, 748.2947, 750.2650, 756.4777, 764.3574, 765.3959, 768.3784, 772.4155, 774.3952, 778.4551, 780.3343, 782.3223, 783.3115, 787.2390, 791.2662, 802.4609, 805.3347, 806.4342, 808.4378, 812.4002, 814.4128, 820.4252, 828.3922, 830.3668, 834.3623, 840.3857, 842.5100,
 791.2862, 802.4809, 803.3347, 806.4342, 808.4378, 812.4002, 814.4128, 820.4252, 828.3922, 830.3868, 834.3823, 840.3857, 842.5100, 851.3846, 856.5103, 865.3634, 869.4703, 870.5254, 871.4965, 872.6990, 888.3988, 891.4706, 893.9500, 897.0277, 911.4314, 912.4475, 913.5080, 913.5100, 918.5267, 925.4804, 927.4970, 930.5015, 935.4675, 943.4757, 951.4646, 952.4799, 957.4673, 961.4901, 962.4866, 967.4440, 969.4496, 974.5051, 975.4521, 977.4406, 978.4772, 979.4924, 983.4706, 985.6071, 991.4533, 993.5267, 995.5177, 999.4602, 1001.4565, 1001.5621, 1003.5043, 1007.5638, 1012.5004, 1014.5331, 1018.5130, 1022.5398, 1023.5525, 1028.5991, 1030.5259, 1035.5314, 1036.5333, 1037.5145, 1040.5127, 1042.5243, 1045.5603, 1060.5398, 1069.4846, 1092.6041, 1106.5313, 1109.5087, 1111.5457, 1113.5419,
  1115.5394, 1118.5659, 1121.5419, 1122.5701, 1131.5602, 1138.5428, 1157.5907, 1158.6328, 1163.6145, 1177.6130, 1178.6060, 1179.5918, 1180.6001, 1181.6368, 1183.6030, 1187.6376, 1192.6014, 1195.5924, 1199.6785, 1206.6066, 1215.6306, 1216.6482, 1226.5839, 1227.6051,
  1231.6115, 1234.6500, 1235.6155, 1248.6078, 1250.6483, 1254.6526, 1255.6036, 1256.6123, 1268.6208, 1271.6423, 1276.6179, 1277.6350,
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  1495.7502, 1500.7242, 1503.7690, 1505.8511, 1509.6786, 1520.7347, 1522.7239, 1523.7567, 1525.7864, 1527.8068, 1532.7472, 1537.7886, 1549.7833, 1555.8657, 1558.8440, 1559.8573, 1568.7592, 1570.7814, 1578.7899, 1606.8213, 1615.8425, 1619.7972, 1621.7831, 1628.8156,
   1630.8202, 1631.8217, 1639.9263, 1644.8083, 1647.8730, 1649.8650, 1650.8523, 1658.8206, 1659.8125, 1661.8284, 1663.7981, 1665.8070,
  1669.8174, 1677.8353, 1679.9403, 1680.8076, 1682.7780, 1696.8055, 1697.7845, 1698.7950, 1707.7931, 1709.8029, 1710.8878, 1712.9166, 1725.8188, 1727.8683, 1730.8236, 1731.8221, 1742.8798, 1746.1482, 1749.8406, 1751.8657, 1756.8782, 1763.8152, 1766.8105, 1768.8596,
  1769.4275, 1770.4087, 1773.8615, 1774.8795, 1775.0302, 1783.8599, 1785.8483, 1786.8871, 1790.8822, 1792.7894, 1801.9315, 1804.9026,
  1808.8663, 1824.8685, 1830.8608, 1849.8231, 1851.8430, 1867.9100, 1868.9441, 1870.9304, 1880.9020, 1884.9191, 1908.8989, 1914.9821,
  1920.9862, 1930.9827, 1932.9813, 1934.9822, 1947.0288, 1958.9543, 1994.8763, 2011.9012, 2013.8700, 2020.9592, 2025.5920, 2042.0568
  2047.0238, 2047.9805, 2049.9497, 2052.9905, 2053.9851, 2058.9988, 2060.0400, 2060.0405, 2065.0427, 2066.0137, 2066.9895, 2067.9763, 2068.9128, 2070.8792, 2074.8860, 2082.0293, 2084.8977, 2086.8872, 2087.8835, 2090.8708, 2092.8674, 2093.8711, 2096.9836, 2097.9961,
 2100.8787, 2101.8999, 2103.9092, 2107.8730, 2119.9924, 2122.9397, 2136.9133, 2211.1047, 2217.9368, 2225.1243, 2232.0229, 2233.0840, 2238.1050, 2250.0259, 2257.9934, 2262.9368, 2263.9700, 2277.9500, 2283.1741, 2290.9570, 2307.9631, 2321.9558, 2323.9670, 2324.9824,
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 2426.0476, 2428.0725, 2430.0947, 2432.0962, 2435.0254, 2438.0706, 2444.0901, 2451.0278, 2459.9802, 2501.2520, 2528.1902, 2543.2092, 2564.1965, 2705.2144, 2834.2925, 2888.2483, 2904.4053, 3130.4312, 3291.4875, 3312.3765, 3451.6833, 3454.6270
 G3MYV8 Mass: 6868
                                                        Score: 17
                                                                                          Expect: 4.7e+002 Matches: 5
  Uncharacterized protein OS=Bos taurus PE=4 SV=1
Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide

765.3959 764.3887 764.3851 4.72 12 - 17 1 --- R.DRINGEL, Q.KNMTK.Q. + Oxidation (M)

978.4772 977.4700 977.4788 21.7 40 - 47 0 --- R.DRINGEL, Q.KNMTK.Q. + Oxidation (M)

187.6376 188.6303 188.6.6167 11.5 26 - 36 2 --- K.RRDDGLSAAAR.K

1409.7107 1408.7034 1408.6980 3.84 12 - 23 2 --- R.QKNMTK.QSDSVK.G. + Oxidation (M)

No match to: 713.4400, 713.4415, 724.3446, 728.2467, 730.2754, 732.2383, 734.2729, 735.3820, 736.3320, 740.2330, 743.2514, 748.2947, 750.2650, 756.4777, 764.3574, 768.3784, 772.4155, 774.3952, 778.4551, 780.3343, 782.3223, 783.3115, 787.2390, 791.2662, 802.4609, 805.3347, 806.4342, 807.3921, 808.4378, 812.4002, 814.4128, 820.4252, 828.3922, 830.3668, 834.3623, 837.3794, 840.3857, 842.5100, 845.4155, 851.3846, 856.5103, 865.3634, 869.4703, 870.5254, 871.4965, 872.6990, 888.3988, 891.4706, 893.9500, 894.4534, 897.0277, 905.4637, 911.4314, 912.4475, 913.5080, 913.5100, 918.5267, 925.4804, 927.4970, 930.5015, 933.4662, 935.4675, 943.4757, 951.4646, 952.4799, 957.4673, 961.4901, 962.4866, 967.4440, 969.4496, 972.4781, 974.5051, 975.4521, 977.4406, 979.4924, 983.4706, 985.6071, 991.4533, 993.5267, 995.5177, 999.4602, 1001.4565, 1001.5621, 1007.5638, 1012.5004, 1014.5331, 1018.5130, 1022.5398, 1023.55525, 1028.5991, 1030.5259, 1035.5314, 1036.5333, 1037.5145, 1040.5127, 1042.5243, 1045.5603, 1060.5398, 1069.4846, 1075.5515, 1092.6041, 1106.5313, 1109.5087, 1111.5457, 1113.5419, 1115.5394, 1118.5659, 1121.5419, 1122.5701, 1131.5602, 1138.5428, 1149.5912, 1155.5768, 1157.5907, 1158.6328, 1163.6145, 1173.6122, 1177.6130, 1178.6060, 1179.5918, 1180.6001, 1181.6368, 1183.6030, 1129.6014, 1230.5259, 1248.6078, 1250.6468, 1255.6036, 1256.6123, 1268.6288, 1271.6423, 1271.6423, 1277.6350, 1289.6449, 1292.6322, 1200.5404, 1215.6060, 1215.6306, 1215.6306, 1215.6306, 1216.6482, 1226.6389, 1227.6051, 1231.6115, 1232.6251, 1233.6230, 1234.6500, 1235.6155, 1248.6078, 1250.6076, 1250.6036, 1256.6123, 1268.6288, 1271.6423, 1271.6423, 1277.6350, 1289.6449, 1292.6
   Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide
  1235.6155, 1248.6078, 1250.6483, 1254.6526, 1255.6036, 1256.6123, 1268.6208, 1271.6423, 1276.6179, 1277.6350, 1289.6449, 1292.6322, 1294.6362, 1295.6366, 1300.5895, 1303.6643, 1305.6523, 1307.6600, 1308.6443, 1310.6051, 1315.6364, 1320.6128, 1321.6134, 1323.6320,
  1325.6456, 1331.6674, 1332.6602, 1333.2076, 1334.6744, 1336.6710, 1337.6279, 1338.6300, 1338.6300, 1345.6146, 1347.6653, 1349.6800, 1349.6827, 1354.6820, 1355.6964, 1359.7053, 1360.6173, 1361.6373, 1365.6752, 1371.6718, 1375.6670, 1377.6776, 1382.6367, 1383.6619,
  1387.6700, 1393.6727, 1400.6235, 1411.6742, 1427.7725, 1431.7605, 1432.6987, 1434.7190, 1449.7479, 1466.6953, 1473.7905, 1475.7498
 1478.7303, 1479.7468, 1485.7531, 1486.7472, 1493.7345, 1495.7502, 1500.7242, 1503.7690, 1505.8511, 1509.6786, 1520.7347, 1522.7239, 1523.7567, 1525.7864, 1527.8068, 1532.7472, 1537.7886, 1539.7711, 1549.7833, 1555.8657, 1558.8440, 1559.8573, 1568.7592, 1570.7814, 1578.7899, 1606.8213, 1615.8425, 1619.7972, 1621.7831, 1628.8156, 1630.8202, 1631.8217, 1639.9263, 1644.8083, 1647.8730, 1649.8650, 1659.8523, 1658.8206, 1659.8125, 1661.8284, 1663.7981, 1665.8070, 1669.8174, 1677.8353, 1679.9403, 1680.8076, 1682.7780, 1696.8055,
  1697.7845, 1698.7950, 1707.7931, 1709.8029, 1710.8878, 1712.9166, 1716.8563, 1725.8188, 1727.8683, 1730.8236, 1731.8221, 1742.8798, 1746.1482, 1749.8406, 1751.8657, 1756.8782, 1757.8225, 1763.8152, 1765.7922, 1766.8105, 1768.8596, 1769.4275, 1770.4087, 1773.8615,
  1774.8795, 1775.0302, 1783.8599, 1785.8483, 1786.8871, 1790.8822, 1792.7894, 1801.9315, 1804.9026, 1808.8663, 1824.8685, 1830.8608, 1849.8231, 1851.8430, 1867.9100, 1868.9441, 1870.9304, 1880.9020, 1884.9191, 1908.8989, 1914.9821, 1916.9882, 1920.9862, 1930.9827, 1932.9813, 1934.9822, 1947.0288, 1958.9543, 1994.8763, 2011.9012, 2013.8700, 2020.9592, 2025.5920, 2042.0568, 2047.0238, 2047.9805,
  2049.9497, 2052.9905, 2053.9851, 2058.9988, 2060.0400, 2060.0405, 2065.0427, 2066.0137, 2066.9895, 2067.9763, 2068.9128, 2070.8792, 2074.8860, 2082.0293, 2084.8977, 2086.8872, 2087.8835, 2090.8708, 2092.8674, 2093.8711, 2096.9836, 2097.9961, 2100.8787, 2101.8999,
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  2564.1965, 2705.2144, 2717.1655, 2834.2925, 2888.2483, 2904.4053, 3130.4312, 3291.4875, 3312.3765, 3451.6833, 3454.6270
 E1B8A3 Mass: 13661 Score: 17
                                                                                           Expect: 4.7e+002 Matches: 7
  Uncharacterized protein OS=Bos taurus GN=LOC100298655 PE=4 SV=1

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss Ions
        Peptide

        756.4777
        755.4704
        755.4766
        -8.14
        4 - 9
        1 ---
        K.VTRKP

                                                                                                   4 - 9 1 --- K.VTRKPR.Q
40 - 46 1 --- K.ARNMTMR.V + 2 Oxidation (M)
   911.4314 910.4241 910.4113
                                                                             14.1
```

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979.4924 978.4852 978.5069 -22.24 14 - 21 1 --- R.VPMRFASR.M + Oxidation (M)
985.6071 984.5998 984.6192 -19.69 2 - 9 2 --- M.TKVTRKPR.Q

1045.5603 1044.5530 1044.5511 -7.70 10 - 17 2 --- R.QSRRVPMR.F + Oxidation (M)
1250.6483 1249.6410 1249.6383 2.16 36 - 46 2 --- R.GSVKARNMTMR.V

1409.7107 1408.7034 1408.7067 -2.35 14 - 25 2 --- R.VPMRFASR.MSK.K + Oxidation (M)

No match to: 713.4400, 713.4415, 724.3446, 728.2467, 730.2754, 732.2383, 734.2729, 735.3820, 736.3320, 740.2330, 743.2514,
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 952.4799, 957.4673, 961.4901, 962.4866, 967.4440, 969.4496, 972.4781, 974.5051, 975.4521, 977.4406, 978.4772, 983.4706, 991.4533 993.5267, 995.5177, 999.4602, 1001.4565, 1001.5621, 1003.5043, 1007.5638, 1012.5004, 1014.5331, 1018.5130, 1022.5398, 1023.5525,
  1028.5991, 1030.5259, 1035.5314, 1036.5333, 1037.5145, 1040.5127, 1042.5243, 1060.5398, 1069.4846, 1075.5515, 1092.6041, 1106.5313,
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 1195.5924, 1199.6785, 1206.6066, 1215.6306, 1216.6482, 1226.5839, 1227.6051, 1231.6115, 1232.6251, 1233.6230, 1234.6500, 1235.6155, 1248.6078, 1254.6526, 1255.6036, 1256.6123, 1268.6208, 1271.6423, 1276.6179, 1277.6350, 1289.6449, 1292.6322, 1294.6362, 1295.6366,
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  1751.8657, 1756.8782, 1757.8225, 1763.8152, 1765.7922, 1766.8105, 1768.8596, 1769.4275, 1770.4087, 1773.8615, 1774.8795, 1775.0302,
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 1947.0288, 1958.9543, 1994.8763, 2011.9012, 2013.8700, 2020.9592, 2025.5920, 2042.0568, 2047.0238, 2047.9805, 2049.9497, 2052.9905, 2053.9851, 2058.9988, 2060.0400, 2060.0405, 2065.0427, 2066.0137, 2066.9895, 2067.9763, 2068.9128, 2070.8792, 2074.8860, 2082.0293,
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 2432.0962, 2435.0254, 2438.0706, 2444.0901, 2451.0278, 2459.9802, 2461.0254, 2501.2520, 2528.1902, 2543.2092, 2564.1965, 2705.2144, 2717.1655, 2834.2925, 2888.2483, 2904.4053, 3130.4312, 3291.4875, 3312.3765, 3451.6833, 3454.6270
 G3MWK4 Mass: 30649 Score: 17
                                                                           Expect: 4.8e+002 Matches: 12
 Uncharacterized protein OS=Bos taurus GN=SRSF12 PE=4 SV=1
  Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide
                                            950.4781 -21.88 203 - 211 1 --- K.QTSSGTKSR.S
960.4849 -2.22 172 - 179 2 --- R.RNSGSRER.S
                       950.4573
961.4901 960.4828 960.4849 -2.22 172 - 179 2 --- R.RNSGSRER.S

1030.5259 1029.5186 1029.5428 -23.45 169 - 177 2 --- R.TPRRNSGSRE.

1177.6130 1176.6057 1176.5921 11.6 92 - 101 2 --- R.TPRRNSGSRE.

1179.5918 1178.5845 1178.5905 -5.03 120 - 129 2 --- R.TRSRSSSWGR.N + Oxidation (M)

1192.6014 1191.5941 1191.5857 7.08 122 - 131 2 --- R.TRSRSSSWGR.R R

1233.6230 1232.6157 1232.6361 -16.50 191 - 202 1 --- R.SRSSSWGRN.R

1295.6366 1294.6293 1294.6530 -18.32 142 - 151 2 --- R.HRFSYSQSK.S

1393.6727 1392.6654 1392.6871 -15.60 243 - 253 2 --- K.HSHFRSHSR.S

1649.8650 1648.8577 1648.8295 17.1 238 - 251 2 --- K.AQTAKHSHFRSHSR.S

1697.7845 1696.7772 1696.8090 -18.73 223 - 237 2 --- R.SPCKSPKAYINSETK.A

1930.9827 1929.9754 1929.9877 -6.34 33 - 48 0 --- R.YGPIUDVYIPLDFYTR.R
 1939.9827 1929.9754 1929.9877 -6.34 33 - 48 0 --- R.YGFIVDVYIPLDFYIR.R

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                                                                                                                                                                                              2277.9500, 2283.1741,
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 3291.4875, 3312.3765, 3451.6833, 3454.6270
                                                                           Expect: 4.9e+002 Matches: 4
 G3N0W0
               Mass: 3134
                                                Score: 17
 Uncharacterized protein OS=Bos taurus PE=4 SV=1
  Observed Mr(expt)

        Mr (calc)
        ppm
        Start
        End Miss
        Ions
        Peptide

        764.3970
        -10.87
        20 - 25
        1 ---
        R.WGRTVF.-

        2118.9617
        11.0
        1 - 17
        0 ---
        -.MLWFCYGY

  765.3959
                       764.3887
 2119.9924 2118.9851 2118.9617
                                                                                                                        -.MLWFCYGYTMGTLVFSK.E + Oxidation (M)
                                                                                1 - 1, 1
1 - 19 1 ---
1 - 19 1 ---
 2405.0879 2404.0806 2404.1054 -10.32
                                                                                                                       -.MLWFCYGYTMGTLVFSKER.W + Oxidation (M)
 2421 0769 2420 0696 2420 1003 -12 69
                                                                                                                        - MIWECYGYTMGTLVFSKER W + 2 Oxidation (M)
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                                                                                                                                                                                                                                                                                                                                             979.4924
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  1768.8596. 1769.4275. 1770.4087. 1773.8615. 1774.8795. 1775.0302. 1783.8599. 1785.8483. 1786.8871. 1790.8822. 1792.7894. 1801.9315.
   1804.9026, 1808.8663, 1824.8685, 1830.8608, 1849.8231, 1851.8430, 1867.9100, 1868.9441, 1870.9304, 1880.9020, 1884.9191, 1908.8989,
  1914.9821, 1916.9882, 1920.9862, 1930.9827, 1932.9813, 1934.9822, 1947.0288, 1958.9543, 1994.8763, 2011.9012, 2013.8700, 2020.9592, 2025.5920, 2042.0568, 2047.0238, 2047.9805, 2049.9497, 2052.9905, 2053.9851, 2058.9988, 2060.0400, 2060.0405, 2065.0427, 2066.0137,
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 O2KHY2
                        Mass: 12884
                                                                 Score: 17
                                                                                                           Expect: 4.9e+002 Matches: 8
  Vesicle-associated membrane protein 5 OS=Bos taurus GN=VAMP5 PE=3 SV=1

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss
        Ions
        Peptide

        802.4609
        801.4537
        801.4344
        24.0
        2 - 8
        8
        1 ---
        M.AGKELI

| No. 
  748.2947, 750.2650, 756.4777, 764.3574, 765.3959, 768.3784, 772.4155, 774.3952, 778.4551, 780.3343, 782.3223, 783.3115, 787.2390, 791.2662, 805.3347, 806.4342, 807.3921, 808.4378, 812.4002, 814.4128, 820.4252, 828.3922, 830.3668, 834.3623, 837.3794, 840.3857,
   842.5100, 845.4155, 851.3846, 856.5103, 865.3634, 869.4703, 870.5254, 871.4965, 872.6990, 888.3988, 891.4706, 893.9500, 894.4534
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   1958.9543, 1994.8763, 2011.9012, 2013.8700, 2020.9592, 2025.5920, 2042.0568, 2047.0238, 2047.9805, 2049.9497, 2052.9905, 2053.9851,
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  2435.0254, 2438.0706, 2444.0901, 2451.0278, 2459.9802, 2461.0254, 2501.2520, 2528.1902, 2543.2092, 2564.1965, 2705.2144, 2717.1655,
  2834.2925, 2888.2483, 2904.4053, 3130.4312, 3291.4875, 3312.3765, 3451.6833, 3454.6270
 E1BPO7 Mass: 23626
                                                                 Score: 17
                                                                                                           Expect: 4.9e+002 Matches: 9
  Uncharacterized protein OS=Bos taurus GN=LNP1 PE=4 SV=1

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Wiss
        Ions
        Peptide

        1310.6051
        1309.5978
        1309.6123
        -11.06
        36 - 46 2 ----
        R.DRRGSQDASYR.K

        1320.6128
        1319.6055
        1319.5894
        12.2
        88 - 97
        1 ----
        R.RYSYEDQGFR.C

        1336.6710
        1335.6637
        1335.6578
        4.41
        98 - 107
        2 ----
        R.CHTQVRDHRK.C

        1354.6820
        1353.6747
        1353.7000
        -18.70
        116 - 127
        2 ----
        K.EPLESKGRSHSK.I

        1725.8188
        1724.8115
        1724.7974
        8.17
        48 - 62
        1 ----
        R.KEDLESKGRSHSK.I

        1730.8236
        1729.8163
        1729.8522
        -20.76
        181 - 195
        1 ----
        R.KEEHGEAYLPTLSEK.A

        1914.9821
        1913.9748
        1913.9734
        0.74
        182 - 198
        1 ----
        K.EEHGEAYLPTLSEKALK.-

        2355.0315
        2354.0242
        2354.0392
        -6.38
        69 - 88
        2 ----
        R.EINHSDGQYKMMSSASHPRR.Y

                                                                                                                     63 - 87
                                                                                                                                                  2 --- K.HNOGPREHNHSDGOYKMMSSASHPR.R
 2888.2483 2887.2410 2887.2739 -11.38
 No match to: 713.4400, 713.4415, 724.3446, 728.2467, 730.2754, 732.2383, 734.2729, 735.3820, 736.3320, 740.2330, 743.2514,
      18.2947, 750.2650, 756.4777, 764.3574, 765.3959, 768.3784, 772.4155, 774.3952, 778.4551, 780.3343, 782.3223, 783.3115, 787.2390,
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  1749.8406, 1751.8657, 1756.8782, 1757.8225, 1763.8152, 1765.7922, 1766.8105, 1768.8596, 1769.4275, 1770.4087, 1773.8615, 1774.8795, 1775.0302, 1783.8599, 1785.8483, 1786.8871, 1790.8822, 1792.7894, 1801.9315, 1804.9026, 1808.8663, 1824.8685, 1830.8608, 1849.8231,
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 2435.0254, 2438.0706, 2444.0901, 2451.0278, 2459.9802, 2461.0254, 2501.2520, 2528.1902, 2543.2092, 2564.1965, 2705.2144, 2717.1655, 2834.2925, 2904.4053, 3130.4312, 3291.4875, 3312.3765, 3451.6833, 3454.6270
                                                  Score: 17
                                                                                 Expect: 4.9e+002 Matches: 14
  Protein FAM76A OS=Bos taurus GN=FAM76A PE=2 SV=1
   Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide
780.3343 779.3271 779.3306 -4.48 264 - 269 0 --- K.MNQMEK.T
979.4924 978.4852 978.4626 23.0 262 - 269 1 --- R.AKMNQMEK.T
1045.5603 1044.5530 1044.5451 7.57 273 - 281 0 --- K.EVTEQLQAK.N
1149.5912 1148.5839 1148.5747 8.04 236 - 244 1 --- K.DQMILEKEK.K + Oxidation (M)
1310.6051 1309.5978 1309.5867 8.51 85 - 94 2 --- K.CQRCTNSEKK.Y
1361.6373 1360.6300 1360.6591 -21.37 262 - 272 2 --- R.AKMNQMEKTHK.E + Oxidation (M)
1371.6718 1370.6645 1370.6327 23.2 152 - 162 1 --- R.AKHNQMEKTHK.E + Oxidation (M)
1371.6776 1376.6703 1376.6540 11.8 262 - 272 2 --- R.AKMNQMEKTHK.E + 2 Oxidation (M)
1478.7303 1477.7230 1477.6918 21.1 2 - 13 1 --- R.AKMNQMEKTHK.E + 2 Oxidation (M)
1503.7690 1502.7617 1502.7486 8.72 31 - 42 1 --- R.TAHPVVKCTYCR.T
1786.8871 1785.8798 1785.9117 -17.84 231 - 244 2 --- K.MLHQKDQMILEKEK.K + Oxidation (M)
2097.9961 2096.9888 2096.9772 5.56 14 - 30 1 --- R.FFFEALSQGQQLCKECR.I
2379.0002 2377.9929 2378.0453 -22.02 251 - 269 2 --- K.ADFQYQESQMRAKNNQMEK.T + Oxidation (M)
2422.0593 2421.0520 2421.0300 9.09 9.09 9.5 - 113 2 --- K.YGPPYSCEQCKQQCAFDRK.D
No match to: 713.4400, 713.4415, 724.3446, 728.2467, 730.2754, 732.2383, 734.2729, 735.3820, 736.3320,
                                                                                    264 - 269 0 --- K.MNQMEK.T
                                                                          4.48
 No match to: 713.4400, 713.4415, 724.3446, 728.2467, 730.2754, 732.2383, 734.2729, 735.3820, 736.3320, 740.2330, 743.2514, 748.2947, 750.2650, 756.4777, 764.3574, 765.3959, 768.3784, 772.4155, 774.3952, 778.4551, 782.3223, 783.3115, 787.2390, 791.2662, 802.4609, 805.3347, 806.4342, 807.3921, 808.4378, 812.4002, 814.4128, 820.4252, 828.3922, 830.3668, 834.3623, 837.3794, 840.3857,
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   1539.7711, 1549.7833, 1555.8657, 1558.8440, 1559.8573, 1568.7592, 1570.7814, 1578.7899, 1606.8213, 1615.8425, 1619.7972, 1621.7831,
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 1884.9191, 1908.8989, 1914.9821, 1916.9882, 1920.8862, 1930.9827, 1932.9813, 1934.9822, 1947.0288, 1958.9543, 1994.8763, 2011.9012, 2013.8700, 2020.9592, 2025.5920, 2042.0568, 2047.0238, 2047.9805, 2049.9497, 2052.9905, 2053.9851, 2058.9988, 2060.0400, 2060.0405, 2065.0427, 2066.0137, 2066.6985, 2067.9763, 2068.9128, 2070.8792, 2074.8860, 2082.0293, 2084.8977, 2086.8872, 2087.8835, 2092.8674, 2093.8711, 2096.9836, 2100.8787, 2101.8999, 2103.9092, 2107.8730, 2119.9924, 2122.9397, 2136.9133, 2211.1047, 2217.9368,
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  3451.6833, 3454.6270
 Q9N287 Mass: 23425
                                                  Score: 17
                                                                                Expect: 4.9e+002 Matches: 14
 {\tt DnaJ~homolog~subfamily~C~member~12~OS=Bos~taurus~GN=DNAJC12~PE=2~SV=1}
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1934.9822 1933.9749 1933.9303 23.1 107 - 123 2 --- R.GKKDLMLEESDQTPTDK.I
2430.0947 2429.0874 2429.0971 -3.99 158 - 178 0 --- K.SFSPQNPDSPGFANVNCWHLR.F
3291.4875 3290.4802 3290.4729 2.22 80 - 106 2 --- R.RSQMSMSFQQWEALSDSVKMSMHWAVR.G + 3 Oxidation (M)

No match to: 713.4400, 713.4415, 724.3446, 728.2467, 730.2754, 732.2383, 734.2729, 735.3820, 736.3320, 740.2330, 743.2514,
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                                                                                                                                                                                                                                                                                                                    1709.8029
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   2093.8711, 2096.9836, 2097.9961, 2100.8787, 2101.8999, 2103.9092, 2107.8730, 2119.9924, 2122.9397, 2136.9133, 2211.1047, 2217.9368
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   2307.9631, 2321.9558, 2323.9670, 2324.9824, 2335.9763, 2339.9456, 2343.0320, 2349.9844, 2352.0308, 2355.0315, 2358.0854, 2368.0815,
  2369.0588, 2378.0020, 2379.0002, 2380.0007, 2381.9963, 2383.0444, 2383.9822, 2393.0020, 2394.0181, 2398.0447, 2400.0771, 2405.0879, 2414.1050, 2417.0933, 2421.0769, 2422.0593, 2426.0476, 2428.0725, 2432.0962, 2435.0254, 2438.0706, 2444.0901, 2451.0278, 2459.9802,
   2461.0254, 2501.2520, 2528.1902, 2543.2092, 2564.1965, 2705.2144, 2717.1655, 2834.2925, 2888.2483, 2904.4053, 3130.4312, 3312.3765,
   3451.6833, 3454.6270
  <u>F1MJH0</u> Mass: 128067 Score: 17
                                                                                               Expect: 5.1e+002 Matches: 34
   Uncharacterized protein OS=Bos taurus GN=SPINK5 PE=4 SV=2

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss
        Ions
        Peptide

        805.3347
        804.3274
        804.3250
        3.10
        689 - 694
        0 ---
        K.EEEDQi

        869.4703
        868.4631
        868.4515
        13.3
        1066 - 1072
        0 ---
        R.QTNTH:

        961.4901
        960.4828
        960.4811
        1.75
        381 - 388
        0 ---
        K.NGQLLG

                                                                                                                                                                   K.EEEDOR.N
                                                                                                                                                                   R.OTNTHIR.S
  961.4901 960.4828 960.4811 1.75 381 - 388 0 ---
1003.5043 1002.4970 1002.5134 -16.38 49 - 57 0 ---
                                                                                                                                                                   K.NGOLLCTR.E
 1040.5127 1039.5054 1039.4869 17.8 454 - 463 1 --- R.GPDGKMGNK.C 1111.5457 1110.5384 1110.5202 16.4 195 - 203 0 --- K.CALCAEIFK.Q 1195.5924 1194.5851 1194.5849 0.19 720 - 729 2 --- K.MKDGKLSCTR.E 1295.6366 1294.6293 1294.6339 -3.57 231 - 240 1 --- K.LCIEYQDRAK.N 1325.6456 1324.6383 1324.6194 14.3 707 - 717 2 --- R.GKAKDQCAEYR.E 1338.6300 1337.6227 1337.6254 -1.99 746 - 755 1 --- K.CTMCKEILQR.E 1338.6300 1337.6227 1337.6254 -1.99 746 - 755 1 --- K.CTMCKEILQR.E 1338.6300 1337.6227 1337.6254 -1.99 746 - 755 1 --- K.CTMCKEILQR.E 1339.6727 1392.6654 1392.6820 -11.88 174 - 184 1 --- R.LFCTRESDPIR.G
 1509.6786 1508.6713 1508.6976 -17.44 579 - 590 1 --- K.DECIKESDPIR.G 1619.7972 1618.7839 1618.7733 10.3 722 - 735 2 --- K.DGKLSCTRESDPVR.D 1644.8083 1643.8010 1643.8413 -24.52 789 - 802 2 --- K.NGKLICTRESDPVR.G 1725.8188 1724.8115 1724.8152 -2.11 226 - 238 2 --- K.RGELICTRESDPVR.G 1725.8188 1724.8151 1724.8152 -2.11 226 - 238 2 --- K.RGELICTRESDPVR.G 1757.8225 1756.8152 1756.8050 5 92 360 - 372 1
 1757.8225 1756.8152 1756.8050 5.82 360 - 373 1 --- K.RQTETTTSFEELCR.E
1763.8152 1762.8079 1762.7931 8.41 1077 - 1091 0 --- R.CEENSIEETTPLDVK.-
1766.8105 1765.8032 1765.8166 -7.56 448 - 463 2 --- R.ENDPVRGPDGKMHGNK.
1768.8596 1767.8523 1767.8461 3.51 227 - 240 2 --- R.DTEKLCIEYQDRAK.N
                                                                                                                                                                  R.ENDPVRGPDGKMHGNK.C + Oxidation (M)
1768.8596 1767.8523 1767.8461 3.51 227 - 240 2 --- R.DTEKLCIEYQDRAK.N
1773.8615 1772.8542 1772.8587 -2.55 906 - 920 2 --- R.AKPSNDAKDQCREVR.N
1808.8663 1807.8590 1807.8635 -2.49 520 - 535 2 --- R.ENDPVRGPDGKMHVNK.C + Oxidation (M)
1880.9020 1879.8947 1879.8846 5.37 425 - 439 2 --- R.EDAKELCSEFRNQVR.N
2013.8700 2012.8627 2012.9005 -18.77 130 - 146 1 --- K.CAMCAELFLKEAEENAK.R
2049.9497 2048.9424 2048.9109 15.4 361 - 376 1 --- R.QTETTTSFELCREVR.K
2082.0293 2081.0220 2080.9960 12.5 311 - 329 2 --- R.NGKLPCTRENDPVQGPDGK.M
2096.9836 2095.9763 2095.9593 8.13 583 - 601 1 --- R.NGKLPCTRENDPVQGPDGK.I
2097.9961 2096.9888 2096.9909 -1.00 381 - 399 1 --- K.NGQLPCTRENDPVQGPDGK.M
2273.0264 2272.0191 2272.0625 -19.09 49 - 67 2 --- K.NFQDFDGKMFVNKCAMCK.M
2321.9558 2320.9485 2320.9158 14.1 1005 - 1025 0 --- R.SSEEEDSSESSISSINSEMCK.H
2369.0588 2368.0515 2368.0796 -11.85 531 - 549 2 --- K.MHVNKCAMCASLFRLEEEK.K + Oxidation (M)
2424.0725 2427.0652 2427.0691 -1.58 459 - 478 2 --- K.MHGNKCAMCASLFRLEEEK.K + Oxidation (M)
2444.0901 2443.0828 2443.0640 7.71 459 - 478 2 --- K.MHGNKCAMCASLFRLEEEK.K + Oxidation (M)
2501.2520 2500.2447 2500.2243 8.17 42 - 62 2 --- K.LFCSQDKKFFQSPDGKMFVNK.C
No match to: 713.4400, 713.4415, 724.3446, 728.2467, 730.2754, 732.2383, 734.2729, 735.3820, 736.3320, 7
                                                                                                                                                                  K.MHGNKCAMCASLFKLEEEEK.K + 2 Oxidation (M)
  No match to: 713.4400, 713.4415, 724.3446, 728.2467, 730.2754, 732.2383, 734.2729, 735.3820, 736.3320, 740.2330, 743.2514, 748.2947, 750.2650, 756.4777, 764.3574, 765.3959, 768.3784, 772.4155, 774.3952, 778.4551, 780.3343, 782.3223, 783.3115, 787.2390, 791.2662, 802.4609, 806.4342, 807.3921, 808.4378, 812.4002, 814.4128, 820.4252, 828.3922, 830.3668, 834.3623, 837.3794, 840.3857,
  842.5100, 845.4155, 851.3846, 856.5103, 865.3634, 870.5254, 871.4965, 872.6990, 888.3988, 891.4706, 893.9500, 894.4534, 897.0277, 905.4637, 911.4314, 912.4475, 913.5080, 913.5100, 918.5267, 925.4804, 927.4970, 930.5015, 933.4662, 935.4675, 943.4757, 951.4646,
   952.4799, 957.4673, 962.4866, 967.4440, 969.4496, 972.4781, 974.5051, 975.4521, 977.4406, 978.4772, 979.4924, 983.4706, 985.6071, 991.4533, 993.5267, 995.5177, 999.4602, 1001.4565, 1001.5621, 1007.5638, 1012.5004, 1014.5331, 1018.5130, 1022.5398, 1023.5525,
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   1163.6145, 1173.6122, 1177.6130, 1178.6060, 1179.5918, 1180.6001, 1181.6368, 1183.6030, 1187.6376, 1192.6014, 1193.5928, 1199.6785,
   1206.6066, 1215.6306, 1216.6482, 1226.5839, 1227.6051, 1231.6115, 1232.6251, 1233.6230, 1234.6500, 1235.6155, 1248.6078, 1250.6483, 1254.6526, 1255.6036, 1256.6123, 1268.6208, 1271.6423, 1276.6179, 1277.6350, 1289.6449, 1292.6322, 1294.6362, 1300.5895, 1303.6643,
  1305.6523, 1307.6600, 1308.6443, 1310.6051, 1315.6364, 1320.6128, 1321.6134, 1323.6320, 1331.6674, 1332.6602, 1333.2076, 1334.6744, 1336.6710, 1337.6279, 1345.6146, 1347.6653, 1349.6800, 1349.6827, 1354.6820, 1355.6964, 1359.7053, 1360.6173, 1361.6373, 1365.6752,
                              1375.6670,\ 1377.6776,\ 1382.6367,\ 1383.6619,\ 1387.6700,\ 1400.6235,\ 1409.7107,\ 1411.6742,\ 1427.7725,\ 1431.7605,
   1434.7190, 1449.7479, 1466.6953, 1473.7905, 1475.7498, 1478.7303, 1479.7468, 1485.7531, 1486.7472, 1493.7345, 1495.7502, 1500.7242,
     .503.7690, 1505.8511, 1520.7347, 1522.7239, 1523.7567, 1525.7864, 1527.8068, 1532.7472, 1537.7886, 1539.7711, 1549.7833, 1555.8657,
  1558.8440, 1559.8573, 1568.7592, 1570.7814, 1578.7899, 1606.8213, 1615.8425, 1621.7831, 1628.8156, 1630.8202, 1631.8217, 1639.9263, 1647.8730, 1649.8650, 1650.8523, 1658.8206, 1659.8125, 1661.8284, 1663.7981, 1665.8070, 1669.8174, 1677.8353, 1679.9403, 1680.8076,
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1682.7780, 1696.8055, 1697.7845, 1698.7950, 1707.7931, 1709.8029, 1710.8878, 1712.9166, 1716.8563, 1727.8683, 1730.8236, 1731.8221, 1742.8798, 1746.1482, 1749.8406, 1751.8657, 1756.8782, 1765.7922, 1769.4275, 1770.4087, 1774.8795, 1775.0302, 1783.8599, 1785.8483,
  1786.8871, 1790.8822, 1792.7894, 1801.9315, 1804.9026, 1824.8685, 1830.8608, 1849.8231, 1851.8430, 1867.9100, 1868.9441, 1870.9304,
 1884.9191, 1908.8989, 1914.9821, 1916.9882, 1920.9862, 1930.9827, 1932.9813, 1934.9822, 1947.0288, 1958.9543, 1994.8763, 2011.9012,
  2020.9592, 2025.5920, 2042.0568, 2047.0238, 2047.9805, 2052.9905, 2053.9851, 2058.9988, 2060.0400, 2060.0405, 2065.0427, 2066.0137,
 2066.9895, 2067.9763, 2068.9128, 2070.8792, 2074.8860, 2084.8977, 2086.8872, 2087.8835, 2090.8708, 2092.8674, 2093.8711, 2100.8787, 2101.8999, 2103.9092, 2107.8730, 2119.9924, 2122.9397, 2136.9133, 2211.1047, 2217.9368, 2225.1243, 2232.0229, 2233.0840, 2238.1050,
 2250.0259, 2257.9934, 2262.9368, 2263.9700, 2277.9500, 2283.1741, 2290.9570, 2307.9631, 2323.9670, 2324.9824, 2335.9763, 2339.9456, 2343.0320, 2349.9844, 2352.0308, 2355.0315, 2358.0854, 2368.0815, 2378.0020, 2379.0002, 2380.0007, 2381.9963, 2383.0444, 2383.9822,
 2393.0020, 2394.0181, 2398.0447, 2400.0771, 2405.0879, 2414.1050, 2417.0933, 2421.0769, 2422.0593, 2426.0476, 2430.0947, 2432.0962
 2435.0254, 2438.0706, 2451.0278, 2459.9802, 2461.0254, 2528.1902, 2543.2092, 2564.1965, 2705.2144, 2717.1655, 2834.2925, 2888.2483, 2904.4053, 3130.4312, 3291.4875, 3312.3765, 3451.6833, 3454.6270
                                                                                    Expect: 5.2e+002 Matches: 22
 Uncharacterized protein OS=Bos taurus GN=LMNB2 PE=3 SV=1
  Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide
                                                  836.3923 -24.12 606 - 612 1 ---
                          836.3721
  975 4521
                         974.4449
                                                 974.4570 -12.43
                                                                                         488 - 495
                                                                                                                   0 ---
                                                                                                                                      K.DOSLGNWR.I
974.4449 974.4450 -12.43 488 - 495 0 --- K.DQSIGNWR.I

1045.5603 1044.5503 1044.5563 -3.16 289 - 298 1 --- K.AASAREELK.E

1060.5398 1059.5325 1059.5382 -5.39 246 - 254 0 --- K.AASAREELK.E

1163.6145 1162.6072 1162.6016 4.86 187 - 195 1 --- K.QLEKETLMR.V + Oxidation (M)

1173.6122 1172.6049 1172.5785 22.5 38 - 46 1 --- K.ELRELNDR.L

1177.6130 1176.6057 1176.5921 11.6 295 - 303 2 --- R.EELKEARMR.V + Oxidation (M)

1215.6306 1214.6233 1214.6367 -11.04 128 - 138 1 --- K.REGELTVAQGR.V

1216.6482 1215.6409 1215.6360 4.05 488 - 497 1 --- K.DQSLGNWRIK.R

1294.6362 1293.6289 1293.6452 -12.60 499 - 509 0 --- R.QVLEGEEISYK.F

1320.6128 1319.6055 1319.6326 -20.49 103 - 113 1 --- R.DRACLQIEMGK.L

1334.6744 1333.6671 1333.6646 -13.10 105 - 115 1 --- R.ACLOIEMGKLR.A + Oxidation (M)
1320.6128 1319.6055 1319.6326 -20.49 103 - 113 1 --- R.DRACLQIEMGK.L
1334.6744 1333.6671 1333.6846 -13.10 105 - 115 1 --- R.ACLQIEMGKLR.A + Oxidation (M)
1375.6670 1374.6597 1374.6627 -2.14 327 - 338 1 --- R.ELEETVAGERDK.F
1409.7107 1408.7034 1408.7384 -24.82 372 - 383 1 --- K.LALDMEISAYRK.L
1485.7531 1484.7458 1484.7405 3.56 3 - 18 0 --- R.TTAAAAAAMATPQPGR.A
1665.8070 1664.7997 1664.8078 -4.85 407 - 424 0 --- R.ATTSSSGSSVSTAGRPGR.S
1880.9020 1879.8947 1879.9348 -21.31 407 - 426 1 --- R.ATTSSSGSSVSTAGRPGRSK.R
1932.9813 1931.9740 1931.9548 9.96 281 - 298 2 --- K.LSSDQNDKAASAAREELK.E
2042.0568 2041.0495 2041.0340 7.59 38 - 53 2 --- K.EELRELMDRLAHYIDR.V
2082.0293 2081.0220 2080.9809 19.8 355 - 371 0 --- R.DMMQQQLAEYQELLDVK.L
2097.9961 2096.9888 2096.9758 6.20 355 - 371 0 --- R.DMMQQQLAEYQELLDVK.L + Oxidation (M)
2501.2520 2500.2447 2500.2768 -12.84 149 - 171 2 --- R.SEAELAAALSDKRTLENDVAELR.A
Nomatch to: 713.4400, 713.4415, 724.3446, 728.2467, 730.2754, 732.2383, 734.2729, 735.3820, 736.332
 No match to: 713.4400, 713.4415, 724.3446, 728.2467, 730.2754, 732.2383, 734.2729, 735.3820, 736.3320, 740.2330, 743.2514,
 748.2947, 750.2650, 756.4777, 764.3574, 765.3959, 768.3784, 772.4155, 774.3952, 778.4551, 780.3343, 782.3223, 783.3115, 787.2390, 791.2662, 802.4609, 805.3347, 806.4342, 807.3921, 808.4378, 812.4002, 814.4128, 820.4252, 828.3922, 830.3668, 834.3623, 840.3857,
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 985.6071, 991.4533, 993.5267, 995.5177, 999.4602, 1001.4565, 1001.5621, 1003.5043, 1007.5638, 1012.5004, 1014.5331, 1018.5130, 1022.5398, 1023.5525, 1028.5991, 1030.5259, 1035.5314, 1036.5333, 1037.5145, 1040.5127, 1042.5243, 1069.4846, 1075.5515, 1092.6041, 1106.5313, 1109.5087, 1111.5457, 1113.5419, 1115.5394, 1118.5659, 1121.5419, 1122.5701, 1131.5602, 1138.5428, 1149.5912, 1155.5768,
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  1206.6066, 1226.5839, 1227.6051, 1231.6115, 1232.6251, 1233.6230, 1234.6500, 1235.6155, 1248.6078, 1250.6483, 1254.6526, 1255.6036,
 1256.6123, 1268.6208, 1271.6423, 1276.6179, 1277.6350, 1289.6449, 1292.6322, 1295.6366, 1300.5895, 1303.6643, 1305.6523, 1307.6600, 1308.6443, 1310.6051, 1315.6364, 1321.6134, 1323.6320, 1325.6456, 1331.6674, 1332.6602, 1333.2076, 1336.6710, 1337.6279, 1338.6300,
 1338.6300, 1345.6146, 1347.6653, 1349.6800, 1349.6827, 1354.6820, 1355.6964, 1359.7053, 1360.6173, 1361.6373, 1365.6752, 1371.6718, 1377.6776, 1382.6367, 1383.6619, 1387.6700, 1393.6727, 1400.6235, 1411.6742, 1427.7725, 1431.7605, 1432.6987, 1434.7190, 1449.7479,
 1466.6953, 1473.7905, 1475.7498, 1478.7303, 1479.7468, 1486.7472, 1493.7345, 1495.7502, 1500.7242, 1503.7690, 1505.8511, 1509.6786, 1520.7347, 1522.7239, 1523.7567, 1525.7864, 1527.8068, 1532.7472, 1537.7886, 1539.7711, 1549.7833, 1555.8657, 1558.8440, 1559.8573,
 1568.7592, 1570.7814, 1578.7899, 1606.8213, 1615.8425, 1619.7972, 1621.7831, 1628.8156, 1630.8202, 1631.8217, 1639.9263, 1644.8083,
 1647.8730, 1649.8650, 1650.8523, 1658.8206, 1659.8125, 1661.8284, 1663.7981, 1669.8174, 1677.8353, 1679.9403, 1680.8076, 1682.7780, 1696.8055, 1697.7845, 1698.7950, 1707.7931, 1709.8029, 1710.8878, 1712.9166, 1716.8563, 1725.8188, 1727.8683, 1730.8236, 1731.8221,
 1742.8798, 1746.1482, 1749.8406, 1751.8657, 1756.8782, 1757.8225, 1763.8152, 1765.7922, 1766.8105, 1768.8596, 1769.4275, 1770.4087, 1773.8615, 1774.8795, 1775.0302, 1783.8599, 1785.8483, 1786.8871, 1790.8822, 1792.7894, 1801.9315, 1804.9026, 1808.8663, 1824.8685,
 1830.8608, 1849.8231, 1851.8430, 1867.9100, 1868.9441, 1870.9304, 1884.9191, 1908.8989, 1914.9821, 1916.9882, 1920.9862, 1930.9827, 1934.9822, 1947.0288, 1958.9543, 1994.8763, 2011.9012, 2013.8700, 2020.9592, 2025.5920, 2047.0238, 2047.9805, 2049.9497, 2052.9905,
  2053.9851, 2058.9988, 2060.0400, 2060.0405, 2065.0427, 2066.0137, 2066.9895, 2067.9763, 2068.9128, 2070.8792, 2074.8860, 2084.8977
 2086.8872, 2087.8835, 2090.8708, 2092.8674, 2093.8711, 2096.9836, 2100.8787, 2101.8999, 2103.9092, 2107.8730, 2119.9924, 2122.9397, 2136.9133, 2211.1047, 2217.9368, 2225.1243, 2232.0229, 2233.0840, 2238.1050, 2250.0259, 2257.9934, 2262.9368, 2263.9700, 2273.0264,
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                  Mass: 7701
                                                      Score: 17
                                                                                  Expect: 5.2e+002 Matches: 6
 Uncharacterized protein OS=Bos taurus PE=4 SV=1
Observed Mr(expt) Mr(calc) ppm Start End Miss Ions Peptide

1216.6482 1215.6409 1215.6434 -2.04 49 - 58 1 --- K.QGMHLKIFDK.I

1232.6251 1231.6178 1231.6383 -16.64 49 - 58 1 --- K.QGMHLKIFDK.I + Oxidation (M)

1473.7905 1472.7832 1472.8173 -23.16 49 - 60 2 --- K.QGMHLKIFDK.I + Oxidation (M)

1500.7242 1499.7169 1499.6964 13.7 18 - 31 0 --- R.QQQAETPTAADQGR.E

1727.8683 1726.8610 1726.8858 -14.36 40 - 54 1 --- R.QGMALQLGRQGMHLK.I + Oxidation (M)

1757.8225 1756.8152 1756.8340 -10.68 18 - 33 1 --- R.QQQAETPTAADQGREK.V
 No match to: 713.4400, 713.4415, 724.3446, 728.2467, 730.2754, 732.2383, 734.2729, 735.3820, 736.3320, 740.2330, 743.2514, 748.2947, 750.2650, 756.4777, 764.3574, 765.3959, 768.3784, 772.4155, 774.3952, 778.4551, 780.3343, 782.3223, 783.3115, 787.2390, 791.2662, 802.4609, 805.3347, 806.4342, 807.3921, 808.4378, 812.4002, 814.4128, 820.4252, 828.3922, 830.3668, 834.3623, 837.3794,
 840.3857, 842.5100, 845.4155, 851.3846, 856.5103, 865.3634, 869.4703, 870.5254, 871.4965, 872.6990, 888.3988, 891.4706, 893.9500, 894.4534, 897.0277, 905.4637, 911.4314, 912.4475, 913.5080, 913.5100, 918.5267, 925.4804, 927.4970, 930.5015, 933.4662, 935.4675,
 943.4757, 951.4646, 952.4799, 957.4673, 961.4901, 962.4866, 967.4440, 969.4496, 972.4781, 974.5051, 975.4521, 977.4406, 978.4772, 979.4924, 983.4706, 985.6071, 991.4533, 993.5267, 995.5177, 999.4602, 1001.4565, 1001.5621, 1003.5043, 1007.5638, 1012.5004,
  1014.5331, 1018.5130, 1022.5398, 1023.5525, 1028.5991, 1030.5259, 1035.5314, 1036.5333, 1037.5145, 1040.5127, 1042.5243, 1045.5603,
 1060.5398, 1069.4846, 1075.5515, 1092.6041, 1106.5313, 1109.5087, 1111.5457, 1113.5419, 1115.5394, 1118.5659, 1121.5419, 1122.5701, 1131.5602, 1138.5428, 1149.5912, 1155.5768, 1157.5907, 1158.6328, 1163.6145, 1173.6122, 1177.6130, 1178.6060, 1179.5918, 1180.6001,
 1181.6368, 1183.6030, 1187.6376, 1192.6014, 1193.5928, 1195.5924, 1199.6785, 1206.6066, 1215.6306, 1226.5839, 1227.6051, 1231.6115, 1233.6230, 1234.6500, 1235.6155, 1248.6078, 1250.6483, 1254.6526, 1255.6036, 1256.6123, 1268.6208, 1271.6423, 1276.6179, 1277.6350,
 1289.6449, 1292.6322, 1294.6362, 1295.6366, 1300.5895, 1303.6643, 1305.6523, 1307.6600, 1308.6443, 1310.6051, 1315.6364, 1320.6128, 1321.6134, 1323.6320, 1325.6456, 1331.6674, 1332.6602, 1333.2076, 1334.6744, 1336.6710, 1337.6279, 1338.6300, 1338.6300, 1345.6146,
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1347.6653, 1349.6800, 1349.6827, 1354.6820, 1355.6964, 1359.7053, 1360.6173, 1361.6373, 1365.6752, 1371.6718, 1375.6670, 1377.6776, 1382.6367, 1383.6619, 1387.6700, 1393.6727, 1400.6235, 1409.7107, 1411.6742, 1427.7725, 1431.7605, 1432.6987, 1434.7190, 1449.7479,
   1466.6953, 1475.7498, 1478.7303, 1479.7468, 1485.7531, 1486.7472, 1493.7345, 1495.7502, 1503.7690, 1505.8511, 1509.6786, 1520.7347,
   1522.7239, 1523.7567, 1525.7864, 1527.8068, 1532.7472, 1537.7886, 1539.7711, 1549.7833, 1555.8657, 1558.8440, 1559.8573, 1568.7592,
    1570.7814, 1578.7899, 1606.8213, 1615.8425, 1619.7972, 1621.7831, 1628.8156, 1630.8202, 1631.8217, 1639.9263, 1644.8083, 1647.8730,
  1649.8650, 1650.8523, 1658.8206, 1659.8125, 1661.8284, 1663.7981, 1665.8070, 1669.8174, 1677.8353, 1679.9403, 1680.8076, 1682.7780, 1696.8055, 1697.7845, 1698.7950, 1707.7931, 1709.8029, 1710.8878, 1712.9166, 1716.8563, 1725.8188, 1730.8236, 1731.8221, 1742.8798,
   1746.1482, 1749.8406, 1751.8657, 1756.8782, 1763.8152, 1765.7922, 1766.8105, 1768.8596, 1769.4275, 1770.4087, 1773.8615, 1774.8795, 1775.0302, 1783.8599, 1785.8483, 1786.8871, 1790.8822, 1792.7894, 1801.9315, 1804.9026, 1808.8663, 1824.8685, 1830.8608, 1849.8231,
   1851.8430, 1867.9100, 1868.9441, 1870.9304, 1880.9020, 1884.9191, 1908.8989, 1914.9821, 1916.9882, 1920.9862, 1930.9827, 1932.9813,
   1934.9822, 1947.0288, 1958.9543, 1994.8763, 2011.9012, 2013.8700, 2020.9592, 2025.5920, 2042.0568, 2047.0238, 2047.9805, 2049.9497, 2052.9905, 2053.9851, 2058.9988, 2060.0400, 2060.0405, 2065.0427, 2066.0137, 2066.9895, 2067.9763, 2068.9128, 2070.8792, 2074.8860,
  2082.0293, 2084.8977, 2086.8872, 2087.8835, 2090.8708, 2092.8674, 2093.8711, 2096.9836, 2097.9961, 2100.8787, 2101.8999, 2103.9092, 2107.8730, 2119.9924, 2122.9397, 2136.9133, 2211.1047, 2217.9368, 2225.1243, 2232.0229, 2233.0840, 2238.1050, 2250.0259, 2257.9934,
  2262.9368, 2263.9700, 2273.0264, 2277.9500, 2283.1741, 2290.9570, 2307.9631, 2321.9558, 2323.9670, 2324.9824, 2335.9763, 2339.9456, 2343.0320, 2349.9844, 2352.0308, 2355.0315, 2358.0854, 2368.0815, 2369.0588, 2378.0020, 2379.0002, 2380.0007, 2381.9963, 2383.0444,
  2383.9822, 2393.0020, 2394.0181, 2398.0447, 2400.0771, 2405.8879, 2414.1050, 2417.0933, 2421.0769, 2422.0593, 2426.0765, 2430.0947, 2432.0962, 2435.0254, 2438.0706, 2444.0901, 2451.0278, 2459.9802, 2461.0254, 2501.2520, 2528.1902, 2543.2092, 2564.1965, 2705.2144, 2717.1655, 2834.2925, 2888.2483, 2904.4053, 3130.4312, 3291.4875, 3312.3765, 3451.6833, 3454.6270
                           Mass: 56128 Score: 16
                                                                                                        Expect: 5.4e+002 Matches: 19
   Growth arrest-specific protein 8 OS=Bos taurus GN=GAS8 PE=2 SV=1

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss Ion:

        724.3446
        723.3373
        723.3551
        -24.62
        297
        -302
        0
        ---

                                                                                          ppm Start End Miss Ions Peptide
                                                                                                                                                                     K.LGSYER.D
774,3952 773.3879 773.4032 -19.69 133 -139 0 --- R.AQEGTLR.R
802.4609 801.4537 801.4344 24.0 68 - 73 1 --- R.RQLEEK.K
930.5015 929.4942 929.4930 1.26 38 - 44 1 --- R.IREELDR.E
967.4440 966.4367 966.4341 2.66 174 - 180 1 --- K.MRNDFER.Q
995.5177 994.5104 994.4971 13.4 184 - 191 1 --- R.EIEAKYDK.K
1001.5621 1000.5548 1000.5414 13.5 75 - 82 2 --- K.AELRNKDR.E
1177.6130 1176.6057 1176.5921 11.6 216 - 225 0 --- K.NGQITTLMQR.H + Oxidation (M)
1215.6306 1214.6233 1214.6367 -11.01 38 - 46 2 --- R.IREELDRER.E
1289.6449 1288.6376 1288.6333 3.38 151 - 161 0 --- K.EQELANEVMVK.N
1305.6523 1304.6450 1304.6262 12.9 151 - 161 0 --- K.EQELANEVMVK.N + Oxidation (M)
1332.6602 1331.6529 1331.6728 -14.92 133 - 143 2 --- R.AQEGTLRRDMR.A
1360.6173 1359.6100 1359.6378 -20.44 40 - 49 2 --- R.ELDREEER.N
1783.6619 1382.6546 1382.6578 -2.32 47 - 56 1 --- R.EELDREEER.N
1791.9166 1711.9093 1711.9039 3.16 118 - 132 2 --- K.AECTVMKLAQKEHR.A + Oxidation (M)
1730.8236 1729.8163 1729.8557 -22.73 12 - 28 1 --- K.AEGTVMKLAQKEHR.A + Oxidation (M)
1731.8221 1730.8148 1730.8297 -8.62 104 - 117 0 --- K.HLLYEHQSSLTEMK.A + Oxidation (M)
1830.8608 1829.8535 1829.8287 13.5 288 - 302 2 --- R.EEMSDMQKKLGSYER.D
1958.9543 1957.9470 1957.9931 -23.54 102 - 117 1 --- K.YKHLLYEHQSSLTEMK.A + Oxidation (M)
1808.8608 1829.8535 1829.8287 13.5 288 - 302 2 --- R.EEMSDMQKKLGSYER.D
1958.9543 1957.9470 1957.9931 -23.54 102 - 117 1 --- K.YKHLLYEHQSSLTEMK.A + Oxidation (M)
1808.8608 1829.8535 1829.8287 13.5 288 - 302 2 --- R.EEMSDMQKKLGSYER.D
1808.8608 1829.8535 1829.8287 13.5 288 - 302 2 --- R.EEMSDMQKKLGSYER.D
1808.8608 1829.8535 1829.8287 13.5 288 - 302 2 --- R.EEMSDMQKKLGSYER.D
1808.8608 1829.8535 1829.8287 13.5 288 - 302 2 --- R.EEMSDMQKKLGSYER.D
1808.8608 1829.8535 1829.8287 13.5 288 - 302 2 --- R.EEMSDMQKKLGSYER.D
1808.8608 1829.8535 1829.8287 13.5 288 - 302 2 --- R.EEMSDMQKKLGSYER.D
1808.8608 1829.8535 1829.8287 13.5 288 - 302 2 --- R.EEMSDMQKKLGSYER.D
1808.8608 1829.8535 1829.8287 13.5 288 - 302 2 --- R.EEMSDMQKKLGSYER.D
1808.8608 1829.8535 1829.8287 13.5 288 - 302
                                                                                                             133 - 139 0 ---
                                 773.3879
                                                             773.4032 -19.69
    774.3952
                                                                                                                                                                      R.AQEGTLR.R
   No match to: 713.4400, 713.4415, 728.2467, 730.2754, 732.2383, 734.2729, 735.3820, 736.3320, 740.2330, 743.2514, 748.2947,
   750.2650, 756.4777, 764.3574, 765.3959, 768.3784, 772.4155, 778.4551, 780.3343, 782.3223, 783.3115, 787.2390, 791.2662, 805.3347, 806.4342, 807.3921, 808.4378, 812.4002, 814.4128, 820.4252, 828.3922, 830.3668, 834.3623, 837.3794, 840.3857, 842.5100, 845.4155,
   851.3846, 856.5103, 865.3634, 869.4703, 870.5254, 871.4965, 872.6990, 888.3988, 891.4706, 893.9500, 894.4534, 897.0277,
   911.4314, 912.4475, 913.5080, 913.5100, 918.5267, 925.4804, 927.4970, 933.4662, 935.4675, 943.4757, 951.4646, 952.4799, 957.4673, 961.4901, 962.4866, 969.4496, 972.4781, 974.5051, 975.4521, 977.4406, 978.4772, 979.4924, 983.4706, 985.6071, 991.4533, 993.5267,
   999.4602, 1001.4565, 1003.5043, 1007.5638, 1012.5004, 1014.5331, 1018.5130, 1022.5398, 1023.5525, 1028.5991, 1030.5259, 1035.5314, 1036.5333, 1037.5145, 1040.5127, 1042.5243, 1045.5603, 1060.5398, 1069.4846, 1075.5515, 1092.6041, 1106.5313, 1109.5087, 1111.5457,
   1113.5419, 1115.5394, 1118.5659, 1121.5419, 1122.5701, 1131.5602, 1138.5428, 1149.5912, 1155.5768, 1157.5907, 1158.6328, 1163.6145, 1173.6122, 1178.6060, 1179.5918, 1180.6001, 1181.6368, 1183.6030, 1187.6376, 1192.6014, 1193.5928, 1195.5924, 1199.6785, 1206.60666,
   1216.6482, 1226.5839, 1227.6051, 1231.6115, 1232.6251, 1233.6320, 1234.6500, 1235.6155, 1248.6078, 1250.6483, 1254.6526, 1255.6036, 1256.6123, 1268.6208, 1271.6423, 1276.6179, 1277.6350, 1292.6322, 1294.6362, 1295.6366, 1300.5895, 1303.6643, 1307.6600, 1308.6443, 1310.6051, 1315.6364, 1320.6128, 1321.6134, 1323.6320, 1325.6456, 1331.6674, 1333.2076, 1334.6744, 1336.6710, 1337.6279, 1338.6300,
   1338.6300, 1345.6146, 1347.6653, 1349.6800, 1349.6827, 1354.6820, 1355.6964, 1359.7053, 1361.6373, 1365.6752, 1371.6718, 1375.6670, 1377.6776, 1382.6367, 1387.6700, 1393.6727, 1400.6235, 1409.7107, 1411.6742, 1427.7725, 1431.7605, 1432.6987, 1434.7190, 1449.7479,
   1466.6953, 1473.7905, 1475.7498, 1478.7303, 1479.7468, 1485.7531, 1486.7472, 1493.7345, 1495.7502, 1500.7242, 1503.7690, 1505.8511, 1509.6786, 1520.7347, 1522.7239, 1523.7567, 1525.7864, 1527.8068, 1532.7472, 1537.7886, 1539.7711, 1549.7833, 1555.8657, 1558.8440,
    1559.8573, 1568.7592, 1570.7814, 1578.7899, 1606.8213, 1615.8425, 1619.7972, 1621.7831, 1628.8156, 1630.8202, 1631.8217, 1639.9263,
  1644.8083, 1647.8730, 1649.8650, 1650.8523, 1658.8206, 1659.8125, 1661.8284, 1663.7981, 1665.8070, 1669.8174, 1677.8353, 1679.9403, 1680.8076, 1682.7780, 1696.8055, 1697.7845, 1698.7950, 1707.7931, 1709.8029, 1710.8878, 1716.8563, 1725.8188, 1727.8683, 1742.8798,
   1746.1482, 1749.8406, 1751.8657, 1756.8782, 1757.8225, 1763.8152, 1765.7922, 1766.8105, 1768.8596, 1769.4275, 1770.4087, 1773.8615, 1774.8795, 1775.0302, 1783.8599, 1785.8483, 1786.8871, 1790.8822, 1792.7894, 1801.9315, 1804.9026, 1808.8663, 1824.8685, 1849.8231,
   1851.8430, 1867.9100, 1868.9441, 1870.9304, 1880.9020, 1884.9191, 1908.8989, 1914.9821, 1916.9882, 1920.9862, 1930.9827, 1932.9813, 1934.9822, 1947.0288, 1994.8763, 2011.9012, 2013.8700, 2020.9592, 2025.5920, 2042.0568, 2047.0238, 2047.9805, 2049.9497, 2052.9905,
   2053.9851, 2058.9988, 2060.0400, 2060.0405, 2065.0427, 2066.0137, 2066.9895, 2067.9763, 2068.9128, 2070.8792, 2074.8860, 2082.0293, 2084.8977, 2086.8872, 2087.8835, 2090.8708, 2092.8674, 2093.8711, 2096.9836, 2097.9961, 2100.8787, 2101.8999, 2103.9092, 2107.8730,
   2119.9924, 2122.9397, 2136.9133, 2211.1047, 2217.9368, 2225.1243, 2232.0229, 2233.0840, 2238.1050, 2250.0259, 2257.9934, 2262.9368,
  2263.9700, 2273.0264, 2277.9500, 2283.1741, 2290.9570, 2307.9631, 2321.9558, 2323.9670, 2324.9824, 2335.9763, 2339.9456, 2343.0320, 2349.9844, 2352.0308, 2355.0315, 2358.0854, 2368.0815, 2369.0588, 2378.0020, 2379.0002, 2380.0007, 2381.9963, 2383.0444, 2383.9822,
  2393.0020, 2394.0181, 2398.0447, 2400.0771, 2405.0879, 2414.1050, 2417.0933, 2421.0769, 2422.0593, 2426.0476, 2428.0706, 2444.0901, 2451.0278, 2459.9802, 2461.0254, 2501.2520, 2528.1902, 2543.2092, 2564.1965, 2705.2144, 2717.1655, 2834.2925, 2888.2483, 2904.4053, 3130.4312, 3291.4875, 3312.3765, 3451.6833, 3454.6270
                           Mass: 56242 Score: 16
                                                                                                       Expect: 5.4e+002 Matches: 19
FIMES | Comparison of the company of
  117.6.6306 1214.6233 1214.6367 -11.01 38 - 46 2 --- K.RGGIILEMOK.H.+ OXIDATION (M) 1215.6306 1214.6233 1214.6367 -11.01 38 - 46 2 --- K.RGGIILEMOK.H.+ OXIDATION (M) 1289.6449 1288.6376 1288.6333 3.38 151 - 161 0 --- K.EQELANEVMVK.N 1305.6523 1304.6450 1304.6282 12.9 151 - 161 0 --- K.EQELANEVMVK.N + Oxidation (M) 1332.6602 1331.6529 1331.6728 -14.92 133 - 143 2 --- R.AQEGTLRRDMR.A
                                                                                                            40 - 49 2 --- R.EELDREREER.N
47 - 56 1 --- R.EERNYFQLER.D
  1360.6173 1359.6100 1359.6378 -20.44
   1383.6619 1382.6546 1382.6578
                                                                                         -2.32
                                                                                       3.16 118 - 132 2 --- K.AEGTVVMKLAQKEHR.A + Oxidation (M)
  1712.9166 1711.9093 1711.9039
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1730.8236 1729.8163 1729.8557 -22.73 12 - 28 1 --- K.GKGTPIVDGLAPEDMSK.E + Oxidation (M) 1731.8221 1730.8148 1730.8297 -8.62 104 - 117 0 --- K.HLLYEHQSSLTEMK.A + Oxidation (M) 1830.8608 1829.8535 1829.8287 13.5 288 - 302 2 --- R.EEMSDMQKKLGSYER.D 1958.9543 1957.9470 1957.9931 -23.54 102 - 117 1 --- K.VKHLLYEHQSSLTEMK.A + Oxidation (M)
  No match to: 713.4400, 713.4415, 728.2467, 730.2754, 732.2383, 734.2729, 735.3820, 736.3320, 740.2330, 743.2514, 748.2947, 750.2650, 756.4777, 764.3574, 765.3959, 768.3784, 772.4155, 778.4551, 780.3343, 782.3223, 783.3115, 787.2390, 791.2662, 805.3347, 806.4342, 807.3921, 808.4378, 812.4002, 814.4128, 820.4252, 828.3922, 830.3668, 834.3623, 837.3794, 840.3857, 842.5100, 845.4155,
  851.3846, 856.5103, 865.3634, 869.4703, 870.5254, 871.4965, 872.6990, 888.3988, 891.4706, 893.9500, 894.4534, 897.0277, 905.4637, 911.4314, 912.4475, 913.5080, 913.5100, 918.5267, 925.4804, 927.4970, 933.4662, 935.4675, 943.4757, 951.4646, 952.4799, 957.4673,
  961.4901, 962.4866, 969.4496, 972.4781, 974.5051, 975.4521, 977.4406, 978.4772, 979.4924, 983.4706, 985.6071, 991.4533, 993.5267, 999.4602, 1001.4565, 1003.5043, 1007.5638, 1012.5004, 1014.5331, 1018.5130, 1022.5398, 1023.5525, 1028.5991, 1030.5259, 1035.5314,
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  1173.6122, 1178.6060, 1179.5918, 1180.6001, 1181.6368, 1183.6030, 1187.6376, 1192.6014, 1193.5928, 1195.5924, 1199.6785, 1206.6066,
  1216.6482, 1226.5839, 1227.6051, 1231.6115, 1232.6251, 1233.6230, 1234.6500, 1235.6155, 1248.6078, 1250.6483, 1254.6526, 1255.6036, 1256.6123, 1268.6208, 1271.6423, 1276.6179, 1277.6350, 1292.6322, 1294.6362, 1295.6366, 1300.5895, 1303.6643, 1307.6600, 1308.6443,
  1310.6051, 1315.6364, 1320.6128, 1321.6134, 1323.6320, 1325.6456, 1331.6674, 1333.2076, 1334.6744, 1336.6710, 1337.6279,
  1338.6300, 1345.6146, 1347.6653, 1349.6800, 1349.6827, 1354.6820, 1355.6964, 1359.7053, 1361.6373, 1365.6752, 1371.6718, 1375.6670,
   1377.6776, 1382.6367, 1387.6700, 1393.6727, 1400.6235, 1409.7107, 1411.6742, 1427.7725, 1431.7605, 1432.6987, 1434.7190, 1449.7479,
  1466.6953, 1473.7905, 1475.7498, 1478.7303, 1479.7468, 1485.7531, 1486.7472, 1493.7345, 1495.7502, 1500.7242, 1503.7690, 1505.8511, 1509.6786, 1520.7347, 1522.7239, 1523.7567, 1525.7864, 1527.8068, 1532.7472, 1537.7886, 1539.7711, 1549.7833, 1555.8657, 1558.8440,
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  1680.8076, 1682.7780, 1696.8055, 1697.7845, 1698.7950, 1707.7931, 1709.8029, 1710.8878, 1716.8563, 1725.8188, 1727.8683, 1742.8798, 1746.1482, 1749.8406, 1751.8657, 1756.8782, 1757.8225, 1763.8152, 1765.7922, 1766.8105, 1768.8596, 1769.4275, 1770.4087, 1773.8615,
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                                                                   Expect: 5.4e+002 Matches: 27
                Mass: 243942 Score: 16
  Uncharacterized protein OS=Bos taurus GN=ZNF407 PE=4 SV=2

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss
        Ions
        Peptide

        774.3952
        773.3879
        773.3959
        -10.38
        859 -
        864
        0
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        K.YYYVTT

K YYTVTK G
                                                                                             1 ---
   905.4637
                    904.4564
                                        904.4436 14.1 1359 - 1366
                                                                                                             K.DCAQGVKK.K
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  2528, 1902, 2543, 2092, 2564, 1965, 2705, 2144, 2717, 1655, 2834, 2925, 2888, 2483, 2904, 4053, 3130, 4312, 3291, 4875, 3312, 3765, 3451, 6833,
 F1MYI2 Mass: 58389 Score: 16
                                                                                                       Expect: 5.4e+002 Matches: 21
  Uncharacterized protein OS=Bos taurus GN=HNRNPM PE=1 SV=2

        Observed
        Mr (expt)
        Mr (calc)
        ppm
        Start
        End Miss
        Ions
        Peptide

        764.3574
        763.3501
        763.3534
        -4.28
        441 - 446
        0 ---
        R.AIEMER.G +

        802.4609
        801.4537
        801.4345
        24.0
        323 - 329
        0 ---
        R.VGQTIER.M

                                                                                                                                                                          R.AIEMER.G + Oxidation (M)
                                                                                                              256 - 262 0 --- R.MGLVMDR.M + Oxidation (M)
505 - 517 2 --- K.MENGKSKGCGVVK.F
   837.3794 836.3721 836.3884 -19.52
 1393.6727 1392.6654 1392.6853 -14.31
1393.6727 1392.6654 1392.6853 -14.31 505 - 517 2 --- K.MENGKSKGCGVVK.F
1409.7107 1408.7034 1408.6803 16.4 505 - 517 2 --- K.MENGKSKGCGVVK.F + Oxidation (M)
1522.7239 1521.7166 1521.7028 9.11 377 - 389 1 --- R.MGANNLERMGLER.M + 2 Oxidation (M)
1532.7472 1531.7399 1531.7235 10.7 223 - 237 1 --- R.MGPGIDRIGGAGMER.M + Oxidation (M)
1532.7472 1531.7399 1531.7235 -20.62 478 - 489 1 --- R.NLPFDFTWKMLK.D
1663.7981 1662.7908 1662.8036 -7.66 512 - 526 1 --- K.GCGVVKFESPEVAER.A
1710.8878 1709.8805 1709.9101 -17.28 36 - 51 1 --- K.AGRLGSTVFVANLDYK.V
1768.8596 1767.8523 1767.8430 5.29 530 - 544 2 --- R.MMNCMKLSGREIDVR.I + 2 Oxidation (M)
1808.8663 1807.8590 1807.8563 1.50 490 - 504 1 --- K.DKFNECGHVLYADIK.M
2042.0568 2041.0495 2041.0244 12.3 471 - 486 1 --- K.ACQLFVRNLPFDFTWK.M
2049.9497 2048.9424 2048.9917 -24.06 385 - 4402 2 --- R.MGLERMGNIER.M
2042.0568 2041.0495 2041.0244 12.3 471 - 486 1 --- KACQIFVRNLPFDFTWK.M

2049.9497 2048.9424 2048.9917 -24.06 385 - 402 2 --- R.MGLERMGANSLERMGLER.M + Oxidation (M)

2066.0137 2065.0064 2064.9866 9.58 385 - 402 2 --- R.MGLERMGANSLERMGLER.M + 2 Oxidation (M)

2097.9961 2096.9888 2096.9765 5.88 385 - 402 2 --- R.MGLERMGANSLERMGLER.M + 2 Oxidation (M)

2211.1047 2210.0974 2210.0428 24.7 256 - 275 2 --- R.MGLERMGANSLERMGLER.M + 3 Oxidation (M)

2368.0815 2367.0742 2367.0987 -10.35 490 - 509 2 --- K.DKFNECGHVLYADIKMENGK.S

2705.2144 2704.2071 2704.2190 -4.38 291 - 315 2 --- R.MGLERMGANSLERMGEGLER.M + 3 Oxidation (M)

2904.4053 2903.3980 2903.3874 3.67 398 - 425 2 --- R.MGLERMGANSLERMGANGEGLER.M + 2 Oxidation (M)

2808.0815 2367.0742 2367.0987 -10.35 490 - 509 2 --- K.DKFNECGHVLYADIKMENGK.S

2705.2144 2704.2071 2704.2190 -4.38 291 - 315 2 --- R.MGLERMGANSLERMGANGEGLER.M + 2 Oxidation (M)

2904.4053 2903.3980 2903.3874 3.67 398 - 425 2 --- R.MGLERMGANSLERMGPAMGPALGAGIER.M + 2 Oxidation (M)
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Search Parameters

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                         : Trypsin
Enzyme
Fixed modifications
Variable modifications :
                          Oxidation (M)
Protein Mass
                           Unrestricted
Peptide Mass Tolerance :
                          ± 25 ppm
Fragment Mass Tolerance: ± 0.5 Da
Max Missed Cleavages
Instrument type : MALDI-TOF-TOF
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   Query2 (713.4415,1+): <no title>
   Query3 (724.3446,1+): <no title>
   Query4 (728.2467,1+): <no title>
   Query5 (730.2754,1+): <no title>
Query6 (732.2383,1+): <no title>
   Query7 (734.2729,1+): <no title>
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          (736.3320,1+): <no title>
  Query10 (740.2330,1+): <no title>
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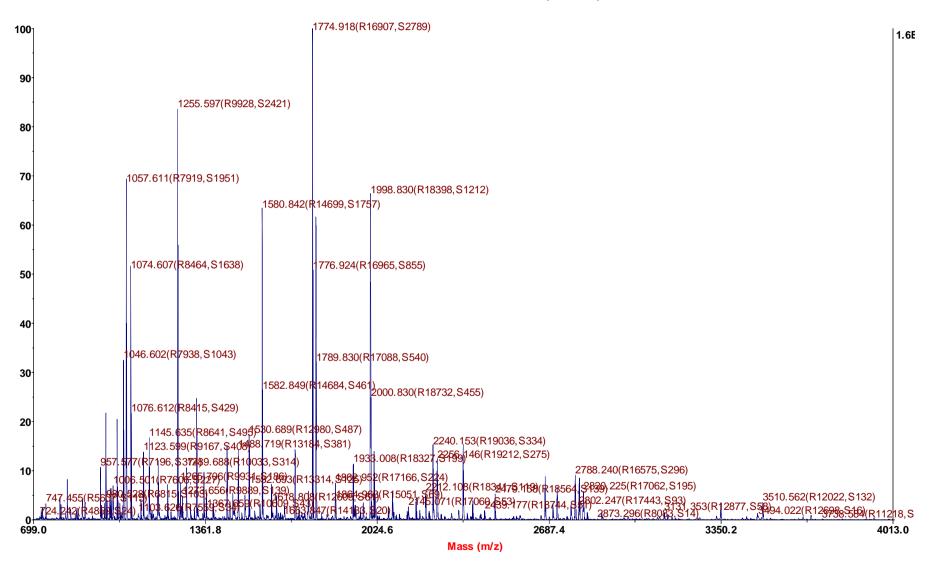
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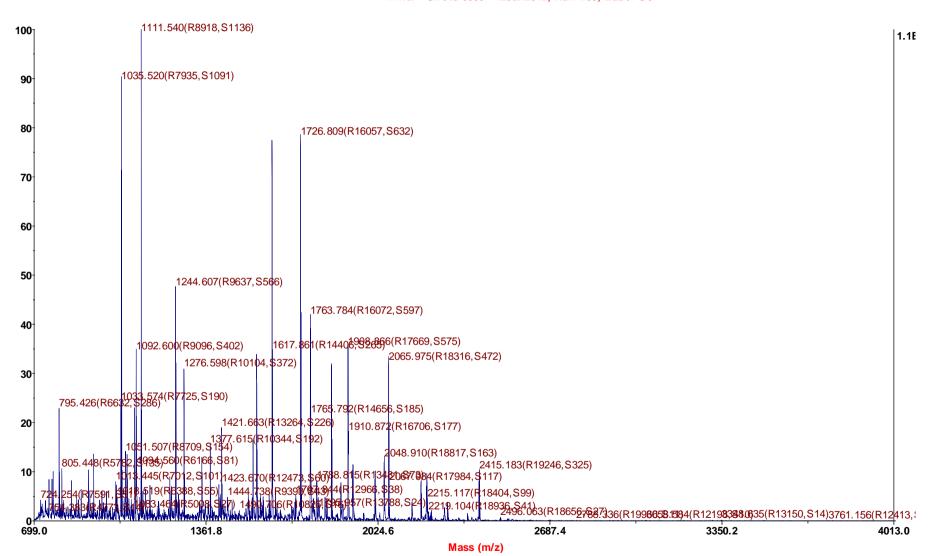
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Mascot: http://www.matrivscience.com

1C
Final - Shots 5000 - 12Jan 2012; Run #59; Label G1

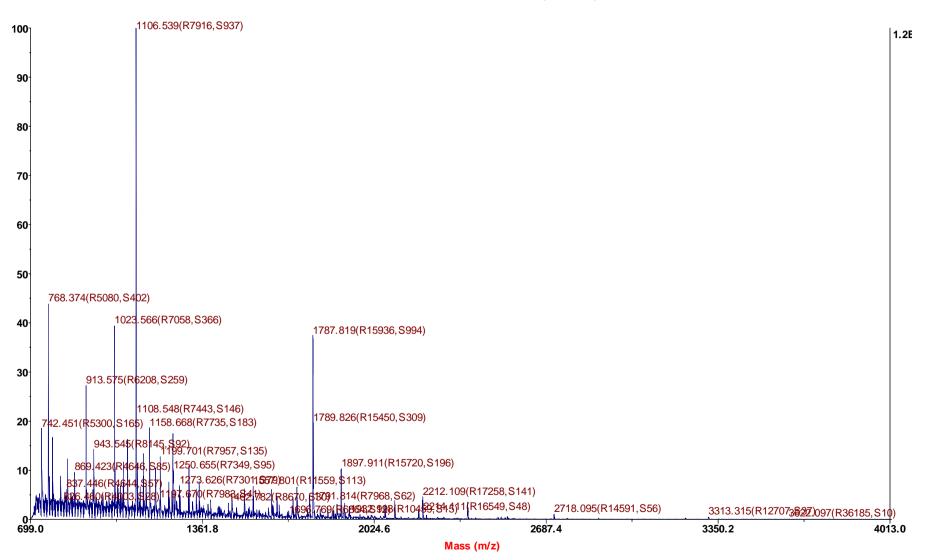


2c Final - Shots 5000 - 12Jan 2012; Run #59; Label G5



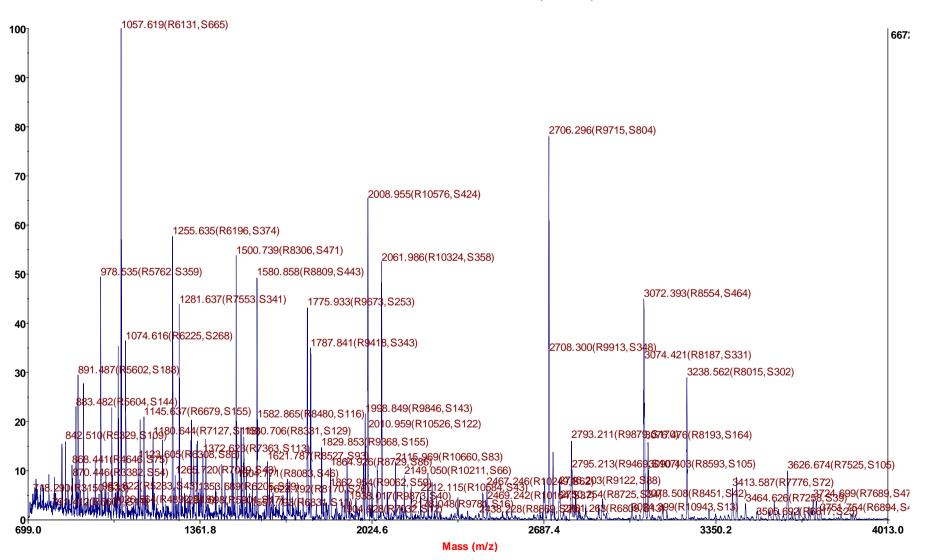
3c

Final - Shots 7500 - 12Jan2012; Run #59; Label G3

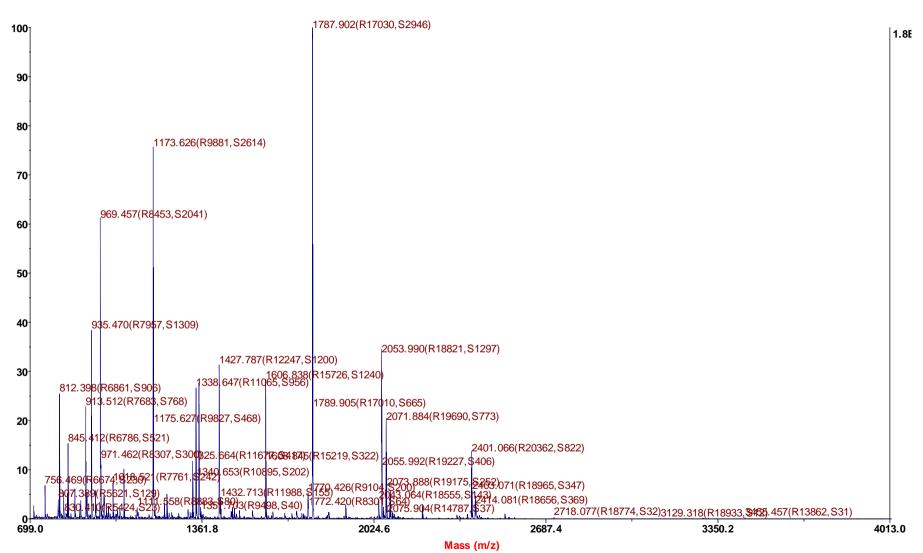


1w

Final - Shots 7500 - 12Jan 2012; Run #59; Label F23



2W Final - Shots 5000 - 12Jan2012; Run #59; Label F19



3W Final - Shots 5000 - 12Jan2012; Run #59; Label F17

