

Report for PEP Section in mzTab File example_5

The PEP section of the **mzTab** file contains 26,794 quantified peptide features measured in 54 samples.

| | number of peptides |
|------------------------------|--------------------|
| quantified | 26,794 |
| identified (total) | 26,794 |
| identified (unique modified) | 21,658 |
| identified (unique stripped) | 19,580 |

Table 1: Total number of quantified and identified peptides.

| mod | specificity | number |
|--------------------|-------------|--------|
| Oxidation | M | 4942 |
| Methylthio | C | 4473 |
| Dioxidation | M | 112 |
| Label:13C(6)15N(2) | K | 26 |
| Label:13C(6)15N(4) | R | 17 |

Table 2: Statistics of modifications.



Figure 1: Frequency plot of peptide quantifications.

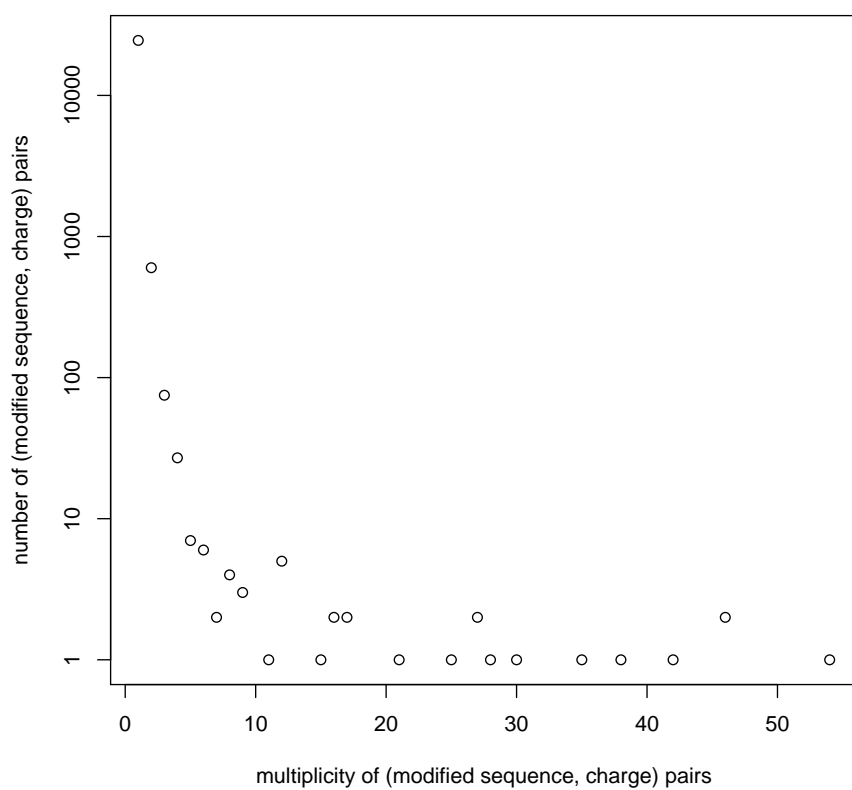
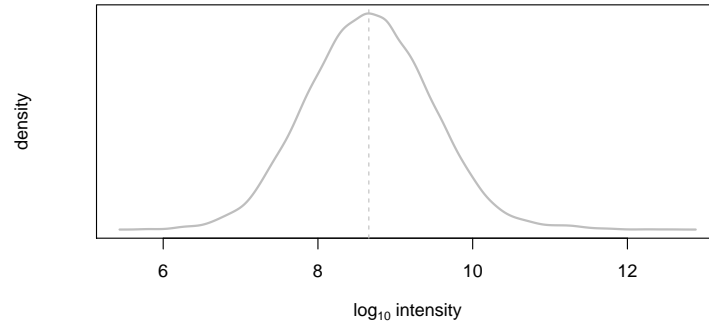
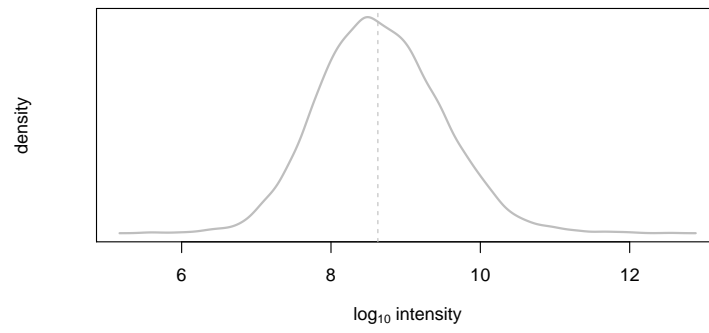


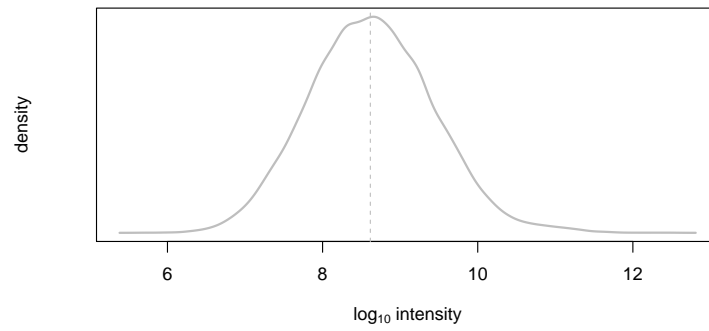
Figure 2: (modified sequence, charge) pair multiplicity vs frequency plot. Each peptide feature (characterised by a (possibly) modified peptide sequence and a charge state) should ideally occur only once in the analysis. In other words, peptides of multiplicity 1 should have a very high frequency. The plot below should show a significant spike on the left and can be used as QC of the analysis.



(a) peptide abundances 1, $\text{median}(\text{intensity}) = 455,025,504$



(b) peptide abundances 2, $\text{median}(\text{intensity}) = 424,578,000$



(c) peptide abundances 3, $\text{median}(\text{intensity}) = 412,578,512$

Figure 3: peptide abundance distributions.

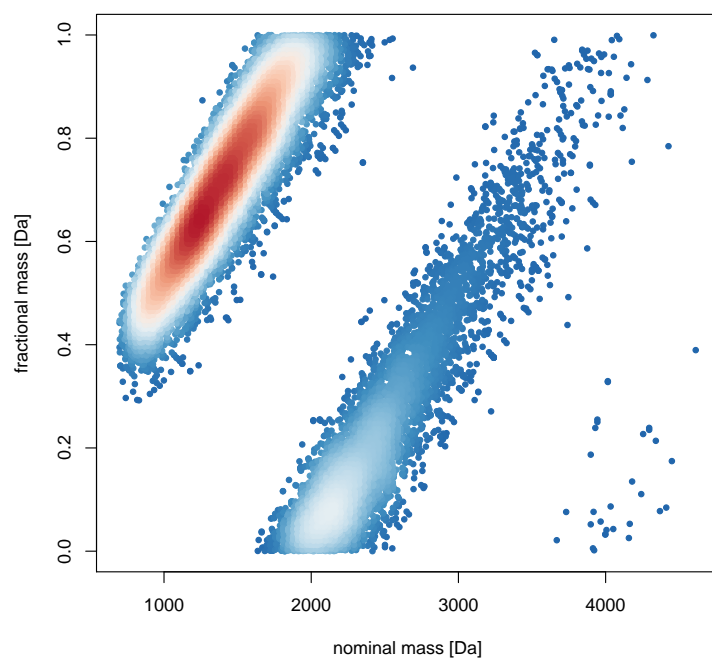


Figure 4: Kendrick nominal fractional mass plot

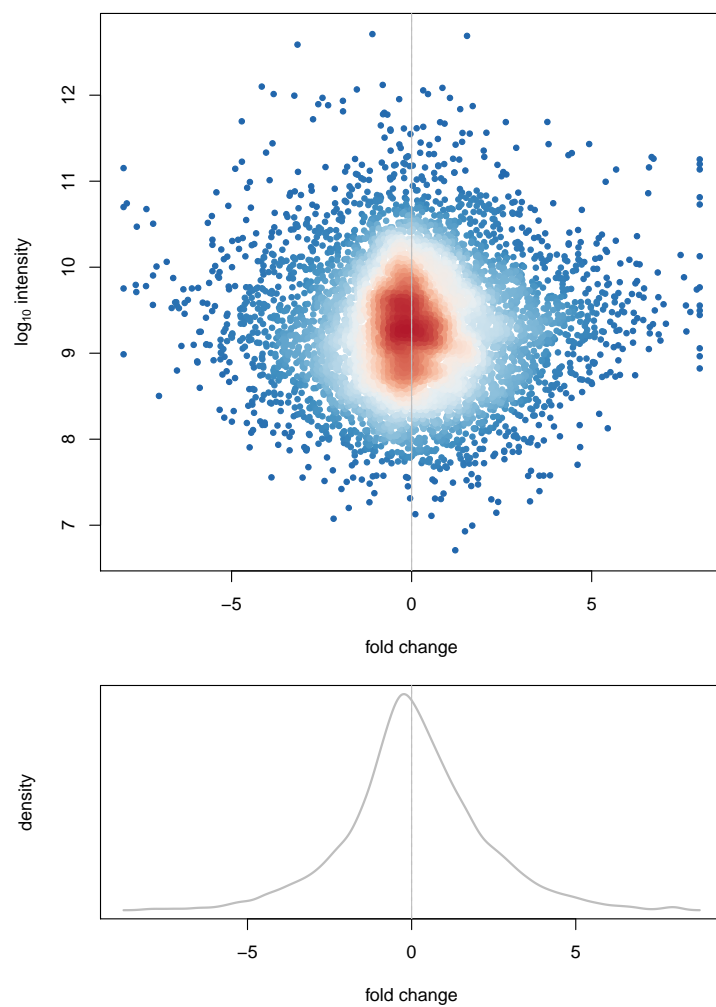


Figure 5: Fold changes of peptide abundances 1 and 2.
 $\text{median}(\text{fc}) = -0.0026$ $\text{sd}(\text{fc}) = 2.0776$

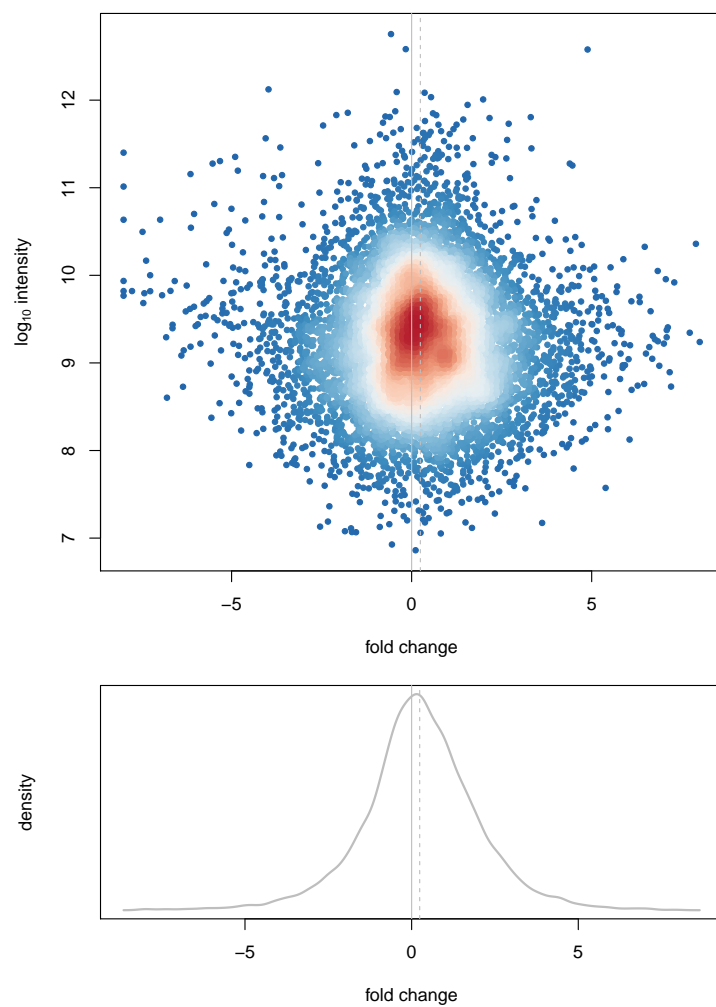


Figure 6: Fold changes of peptide abundances 1 and 3.
 $\text{median}(\text{fc}) = 0.2421$ $\text{sd}(\text{fc}) = 1.7661$

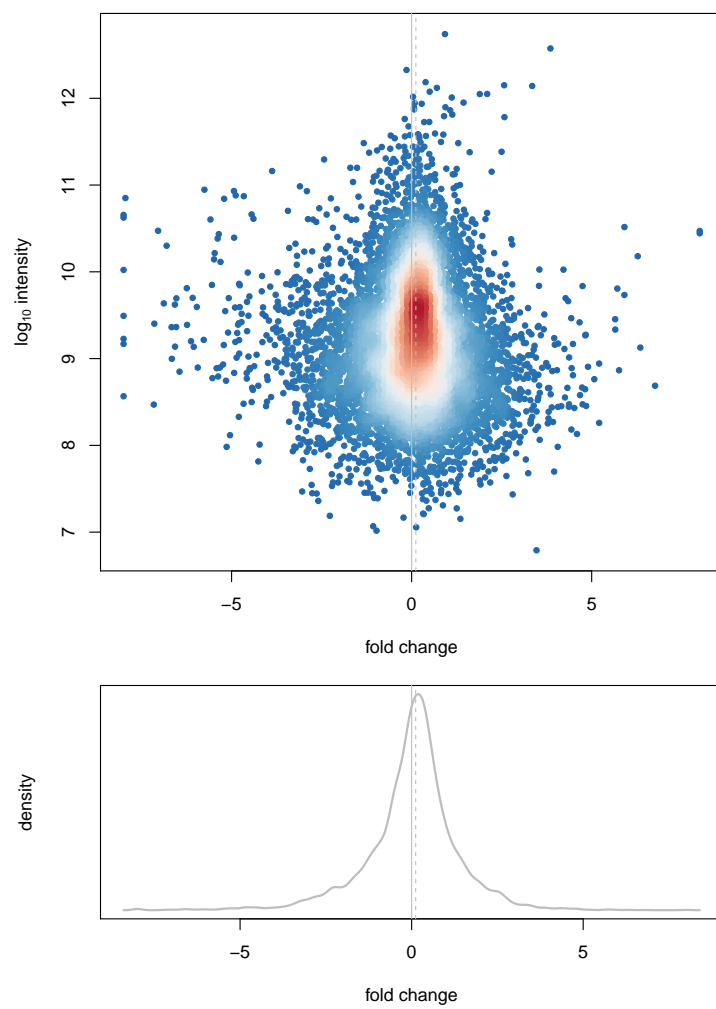


Figure 7: Fold changes of peptide abundances 2 and 3.
 $\text{median}(\text{fc}) = 0.1175$ $\text{sd}(\text{fc}) = 1.3543$

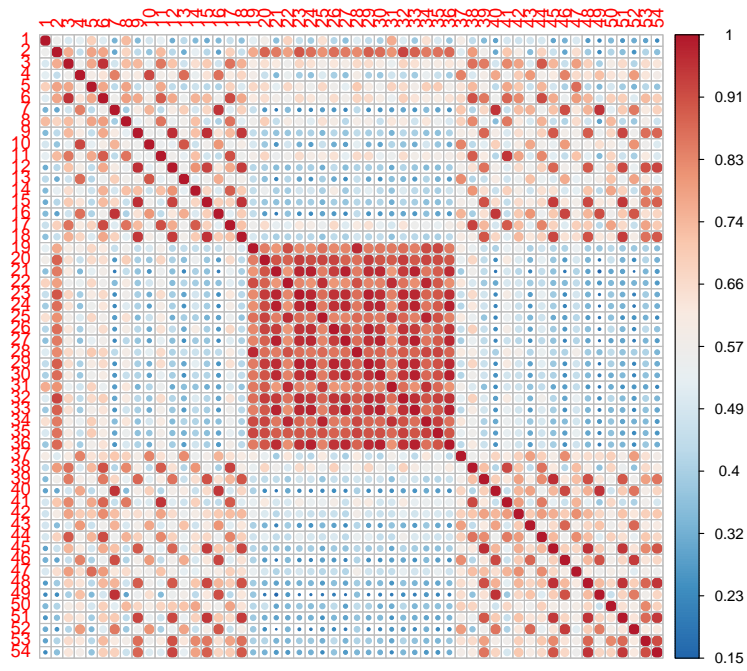


Figure 8: Pearson correlation of all peptide abundances. (min correlation = 0.1484, median correlation = 0.5701, max correlation = 1)

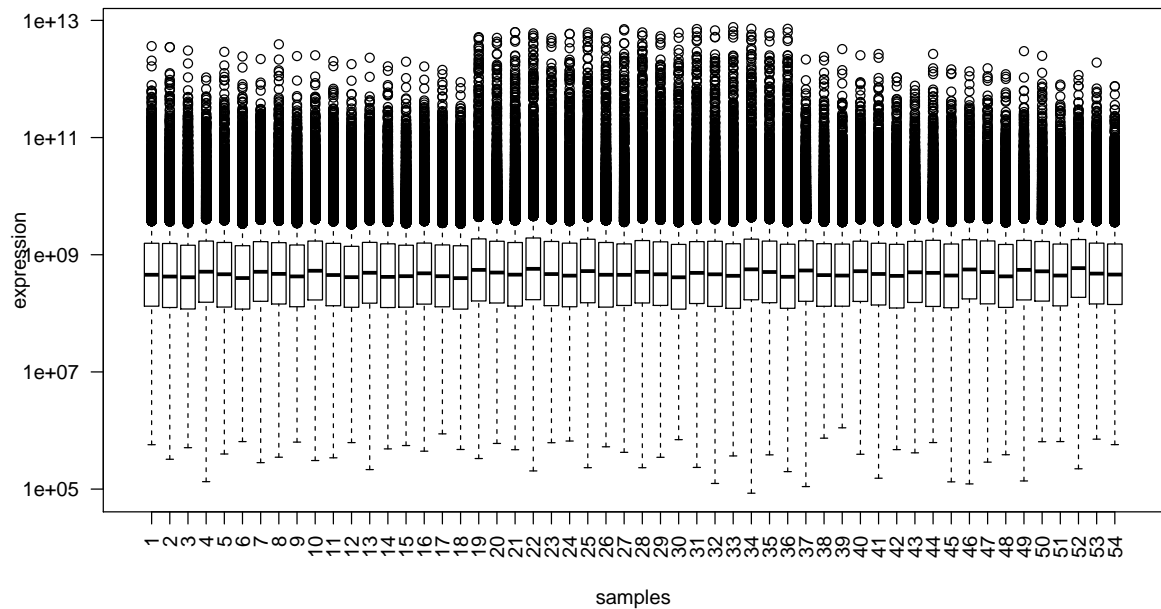


Figure 9: Boxplot of all peptide abundances.

| modified sequence | accession | charge | retention time | m/z |
|------------------------------|-----------|--------|----------------|---------|
| LSLM(Oxidation)YAR | P78527 | 2 | 3727.04 | 435.23 |
| LSLMYAR | P78527 | 2 | 4790.39 | 427.23 |
| EQC(Methylthio)C(Methylth... | P62633 | 4 | 4025.06 | 454.93 |
| EQC(Methylthio)C(Methylth... | P62633 | 3 | 4045.75 | 606.23 |
| M(Oxidation)VQEAEKYKAEDEK... | P11142 | 4 | 1316.10 | 500.25 |
| M(Oxidation)VQEAEKYKAEDEK... | P11142 | 3 | 1320.29 | 666.66 |
| MVQEAEKYKAEDEKQR | P11142 | 3 | 1585.13 | 661.33 |
| M(Oxidation)VQEAEKYKAEDEK... | P11142 | 2 | 1324.47 | 999.48 |
| MVQEAEKYKAEDEKQR | P11142 | 4 | 1577.81 | 496.25 |
| TVPFC(Methylthio)STFAAFFT... | P29401 | 2 | 12736.46 | 820.88 |
| GNFGGSFAGSFSGGAGGHAPGVAR | P52272 | 3 | 5570.46 | 678.99 |
| GNFGGSFAGSFSGGAGGHAPGVAR | P52272 | 2 | 5569.35 | 1017.98 |
| GNFGGSFAGSFSGGAGGHAPGVARK | P52272 | 4 | 4336.39 | 541.52 |
| GNFGGSFAGSFSGGAGGHAPGVARK | P52272 | 3 | 4346.43 | 721.69 |

Table 3: Peptides of interest. Please note that the script requires a vector of *stripped* peptide sequences, but in the above table we list the *modified* peptide sequences.

| modified sequence | accession | charge | retention time | m/z |
|------------------------------|-----------|--------|----------------|---------|
| AALETDENLLLC(Methylthio)A... | O75643 | 2 | 9446.27 | 966.97 |
| ANSNLVLQADR | O75643 | 2 | 3364.48 | 600.82 |
| DILC(Methylthio)GAADDEVLA... | O75643 | 2 | 13363.36 | 788.41 |
| GLFYFDNSFRPVPLEQTYVGITEK | O75643 | 3 | 10851.51 | 940.81 |
| GNIISTPEKWDILSR | O75643 | 3 | 8401.82 | 614.67 |
| GYTLLSEGIDEMVGIYKPK | O75643 | 3 | 12026.42 | 742.73 |
| HLILPEKYPPPTTELLDLQPLPVSA... | O75643 | 4 | 10522.78 | 738.18 |
| HLSDHLSSELVEQTLSDLEQSK | O75643 | 4 | 11777.91 | 602.80 |
| HLSDHLSSELVEQTLSDLEQSK | O75643 | 3 | 11778.33 | 803.40 |
| LELSVHLQPITR | O75643 | 3 | 6463.56 | 469.28 |
| LTAIDILTTC(Methylthio)AAD... | O75643 | 2 | 13199.51 | 882.46 |
| LYDLNHNEIGELIR | O75643 | 3 | 7560.42 | 566.96 |
| M(Oxidation)DTDLETM(Oxida... | O75643 | 2 | 6919.78 | 1105.48 |
| M(Oxidation)TQNPYYNLQGIS... | O75643 | 3 | 4206.52 | 651.31 |
| MTQNPYYNLQGISHR | O75643 | 3 | 4594.64 | 645.98 |
| RLDLVHTAALMLDKNNLVK | O75643 | 4 | 8302.19 | 541.81 |
| SGGPVVVLVQLEREEVETGPVIAPL... | O75643 | 3 | 12091.36 | 1029.91 |
| SLQYEEK | O75643 | 2 | 2782.59 | 465.73 |
| SLVQEMVGSFGK | O75643 | 2 | 8622.79 | 641.33 |
| TGNFQVTELGR | O75643 | 2 | 4983.82 | 611.31 |
| TNLLLQAHLSR | O75643 | 3 | 4683.05 | 422.58 |
| TRRDEPTGEVLSLVGKLEGTR | O75643 | 4 | 7443.32 | 579.07 |
| VPIPVKESIEEPSAK | O75643 | 3 | 4274.05 | 541.63 |
| VLLTGETSTDLLK | O75643 | 2 | 6029.52 | 688.39 |
| YAQAGFEGFK | O75643 | 2 | 4657.65 | 559.27 |
| AHGGYSVFAGVGER | P06576 | 3 | 4066.84 | 469.57 |
| AHGGYSVFAGVGER | P06576 | 2 | 4067.38 | 703.84 |
| AIAELGIYPAVDPLDSTSR | P06576 | 2 | 10056.72 | 994.52 |
| DQEGQDVLLFIDNIFR | P06576 | 2 | 13754.13 | 961.49 |
| EGNDLYHEM(Oxidation)IESGV... | P06576 | 3 | 6967.34 | 693.00 |
| EGNDLYHEMIESGVINLK | P06576 | 3 | 9519.98 | 687.67 |
| ETRLVLEVAQHLGESTVR | P06576 | 4 | 7089.19 | 510.03 |
| ETRLVLEVAQHLGESTVR | P06576 | 3 | 7085.92 | 679.71 |
| FLSQPFQVAEVFTGHM(Oxidatio... | P06576 | 3 | 8779.41 | 680.34 |

| | | | | |
|-------------------------------|--------|---|----------|---------|
| FLSQPFQVAEVFTGHMGK | P06576 | 3 | 9681.53 | 675.01 |
| FLSQPFQVAEVFTGHM(Oxidatio... | P06576 | 2 | 8779.66 | 1020.01 |
| FTQAGSEVSALLGR | P06576 | 2 | 7458.45 | 718.38 |
| FTQAGSEVSALLGRIPSAVGYQPTL... | P06576 | 3 | 10274.31 | 1238.94 |
| FTQAGSEVSALLGRIPSAVGYQPTL... | P06576 | 3 | 10761.70 | 1233.61 |
| GFQQILAGEYDHLPEQAFYM(Oxid... | P06576 | 3 | 11504.92 | 1122.88 |
| GFQQILAGEYDHLPEQAFYMGVPIE... | P06576 | 3 | 12341.34 | 1117.55 |
| GGKIGLFGGAGVGK | P06576 | 2 | 3908.14 | 609.35 |
| GQKVLDSGAPIKIPVGPETLGR | P06576 | 4 | 6585.67 | 558.82 |
| GQKVLDSGAPIKIPVGPETLGR | P06576 | 3 | 6587.37 | 744.76 |
| GSITSVQAIYVPADDLTD PAPATTF... | P06576 | 3 | 11298.03 | 1238.97 |
| IGLFGGAGVGK | P06576 | 2 | 5844.10 | 488.28 |
| IM(Oxidation)DPNIVGSEHYDV... | P06576 | 3 | 4749.42 | 611.29 |
| IM(Oxidation)DPNIVGSEHYDV... | P06576 | 2 | 4748.42 | 916.44 |
| IMDPNIVGSEHYDVAR | P06576 | 3 | 5605.08 | 605.96 |
| IM(Oxidation)DPNIVGSEHYDV... | P06576 | 3 | 5605.37 | 611.29 |
| IMDPNIVGSEHYDVAR | P06576 | 2 | 5607.40 | 908.44 |
| IM(Oxidation)NVIGEPIDER | P06576 | 2 | 5304.34 | 701.36 |
| IMNVIGEPIDER | P06576 | 2 | 6546.60 | 693.36 |
| IM(Oxidation)NVIGEPIDERGP... | P06576 | 3 | 5343.69 | 599.66 |
| IMNVIGEPIDERGPIK | P06576 | 3 | 6292.57 | 594.33 |
| IM(Oxidation)NVIGEPIDERGP... | P06576 | 3 | 6297.18 | 599.66 |
| IMNVIGEPIDERGPIK | P06576 | 2 | 6296.13 | 890.98 |
| IM(Oxidation)NVIGEPIDERGP... | P06576 | 2 | 5333.90 | 898.98 |
| IMNVIGEPIDERGPIKTK | P06576 | 4 | 5258.30 | 503.28 |
| IM(Oxidation)NVIGEPIDERGP... | P06576 | 4 | 4395.74 | 507.28 |
| IM(Oxidation)NVIGEPIDERGP... | P06576 | 3 | 4391.38 | 676.04 |
| IM(Oxidation)NVIGEPIDERGP... | P06576 | 4 | 5256.54 | 507.28 |
| IPSAVG YQPTLATDM(Dioxidati... | P06576 | 2 | 6010.84 | 1149.54 |
| IPSAVG YQPTLATDMGTM(Oxidat... | P06576 | 2 | 7115.37 | 1141.54 |
| IPSAVG YQPTLATDM(Oxidation... | P06576 | 2 | 6646.31 | 1141.54 |
| IPSAVG YQPTLATDMGTMQER | P06576 | 2 | 7931.74 | 1133.55 |
| KGSITSVQAIYVPADDLTD PAPATT... | P06576 | 4 | 10149.17 | 961.50 |
| KGSITSVQAIYVPADDLTD PAPATT... | P06576 | 3 | 10147.58 | 1281.67 |
| LVLEVAQHLGESTVR | P06576 | 3 | 6607.33 | 550.98 |
| LVLEVAQHLGESTVR | P06576 | 2 | 6606.95 | 825.96 |
| LVPLKETIK | P06576 | 2 | 2993.62 | 520.84 |
| QFAPIHAEAPEFM(Oxidation)E... | P06576 | 3 | 9597.57 | 1026.17 |
| SLQDIIAILGM(Oxidation)DEL... | P06576 | 3 | 12353.01 | 897.80 |
| SLQDIIAILGMDELSEEDKLT VSR | P06576 | 3 | 12689.66 | 892.47 |
| SLQDIIAILGM(Oxidation)DEL... | P06576 | 3 | 12687.94 | 897.80 |
| TIAM(Oxidation)DGTEGLVR | P06576 | 2 | 4113.14 | 639.82 |
| TIAMDGTEGLVR | P06576 | 2 | 5633.95 | 631.82 |
| TIAM(Oxidation)DGTEGLVR | P06576 | 2 | 5633.57 | 639.82 |
| TREGNDLYHEM(Oxidation)IES... | P06576 | 4 | 5712.27 | 584.29 |
| TREGNDLYHEM(Oxidation)IES... | P06576 | 3 | 5714.93 | 778.72 |
| TREGNDLYHEMIESGVINLK | P06576 | 3 | 8065.03 | 773.39 |
| TREGNDLYHEMIESGVINLK | P06576 | 4 | 8067.58 | 580.29 |
| TREGNDLYHEM(Oxidation)IES... | P06576 | 4 | 5683.00 | 709.85 |
| TREGNDLYHEMIESGVINLKDATSK | P06576 | 4 | 7944.27 | 705.85 |
| TVLIM(Oxidation)ELINNVAK | P06576 | 2 | 9934.08 | 737.42 |
| TVLIMELINNVAK | P06576 | 2 | 11599.39 | 729.42 |
| TVLIM(Oxidation)ELINNVAK | P06576 | 2 | 11591.65 | 737.42 |
| TVLIM(Oxidation)ELINNVAK | P06576 | 2 | 9924.20 | 737.42 |
| TVLIMELINNVAK | P06576 | 2 | 11737.48 | 729.42 |
| VALTGTLVAEYFR | P06576 | 2 | 9634.90 | 720.40 |

| | | | | |
|------------------------------|--------|---|----------|---------|
| VALVYGQMNEPPGAR | P06576 | 2 | 5752.97 | 801.40 |
| VALVYGQM(Oxidation)NEPPGA... | P06576 | 2 | 4561.82 | 809.41 |
| VALVYGQM(Oxidation)NEPPGA... | P06576 | 2 | 5735.77 | 809.41 |
| VLDSGAPIKIPVGPETLGR | P06576 | 3 | 7703.51 | 640.37 |
| VLDSGAPIKIPVGPETLGR | P06576 | 2 | 7703.86 | 960.05 |
| VVDLLAPYAK | P06576 | 2 | 7025.47 | 544.82 |
| AAVAGEDGRM(Oxidation)IAGQ... | P07910 | 3 | 8236.26 | 842.44 |
| GFAFVQYVNER | P07910 | 2 | 7451.91 | 665.33 |
| IVGC(Methylthio)SVHK | P07910 | 2 | 2266.05 | 444.72 |
| IVGC(Methylthio)SVHKGFAFV... | P07910 | 4 | 7057.45 | 550.53 |
| IVGC(Methylthio)SVHKGFAFV... | P07910 | 3 | 7078.28 | 733.70 |
| KELTQIK | P07910 | 2 | 1530.39 | 430.27 |
| LKGDDLQAIKK | P07910 | 3 | 2010.80 | 410.25 |
| LKGDDLQAIKK | P07910 | 2 | 2012.40 | 614.87 |
| LKGDDLQAIKKELTQIK | P07910 | 4 | 6152.95 | 486.04 |
| M(Oxidation)IAGQVLDINLAAE... | P07910 | 2 | 8127.15 | 849.96 |
| MIAGQVLDINLAAEPK | P07910 | 2 | 8833.20 | 841.96 |
| M(Oxidation)IAGQVLDINLAAE... | P07910 | 2 | 8831.39 | 849.96 |
| M(Oxidation)YSYPAR | P07910 | 2 | 2178.51 | 452.20 |
| MYSYPAR | P07910 | 2 | 2609.85 | 444.21 |
| MYSYPARVPPPPPIAR | P07910 | 3 | 5638.05 | 604.66 |
| SGKLGDDLQAIKK | P07910 | 3 | 1721.10 | 500.96 |
| SGKLGDDLQAIKK | P07910 | 2 | 1716.12 | 750.94 |
| VPPPPPIAR | P07910 | 2 | 3073.40 | 472.29 |
| VPPPPPIAR | P07910 | 2 | 3255.40 | 472.29 |
| AC(Methylthio)LISLGYDVEND... | O43707 | 3 | 8518.39 | 849.05 |
| AGTQIENIDEDFRDGLK | O43707 | 3 | 6848.07 | 640.98 |
| AGTQIENIDEDFRDGLK | O43707 | 2 | 6847.12 | 960.97 |
| AIM(Oxidation)TYVSSFYHAFS... | O43707 | 3 | 8185.69 | 675.32 |
| AIM(Oxidation)TYVSSFYHAFS... | O43707 | 2 | 8172.79 | 1012.48 |
| AIMTYVSSFYHAFSGAQK | O43707 | 3 | 9592.08 | 669.99 |
| AIMTYVSSFYHAFSGAQK | O43707 | 2 | 9597.33 | 1004.49 |
| AIM(Oxidation)TYVSSFYHAFS... | O43707 | 3 | 9596.21 | 675.32 |
| AIM(Oxidation)TYVSSFYHAFS... | O43707 | 4 | 7575.23 | 685.08 |
| AIM(Oxidation)TYVSSFYHAFS... | O43707 | 3 | 7571.39 | 913.11 |
| AIMTYVSSFYHAFSGAQKAETAANR | O43707 | 3 | 8754.95 | 907.77 |
| ALDFIASK | O43707 | 2 | 4963.37 | 432.74 |
| ASFNHFDKDHGGALGPEEFK | O43707 | 4 | 4122.09 | 551.51 |
| ASFNHFDKDHGGALGPEEFK | O43707 | 3 | 4144.77 | 735.01 |
| ASIHEAWTDGKEAM(Oxidation)... | O43707 | 3 | 3348.57 | 601.63 |
| ASIHEAWTDGKEAM(Oxidation)... | O43707 | 4 | 3349.63 | 451.47 |
| ASIHEAWTDGKEAMLK | O43707 | 3 | 4519.42 | 596.30 |
| ASIHEAWTDGKEAMLK | O43707 | 4 | 4527.79 | 447.47 |
| C(Methylthio)QLEINFNTLQTK | O43707 | 2 | 8884.72 | 799.39 |
| DAKGISQEQM(Oxidation)QEFR | O43707 | 3 | 2737.85 | 561.60 |
| DAKGISQEQM(Oxidation)QEFR | O43707 | 2 | 2742.44 | 841.89 |
| DDPVTNLNNAFEVAEK | O43707 | 2 | 9082.35 | 888.43 |
| DDPVTNLNNAFEVAEKYLDIPK | O43707 | 3 | 12761.98 | 835.76 |
| DGLAFNALIHR | O43707 | 2 | 7035.73 | 613.84 |
| DGLAFNALIHR | O43707 | 3 | 7033.86 | 409.56 |
| DYETATLSDIK | O43707 | 2 | 6094.41 | 628.31 |
| EAILAIHK | O43707 | 2 | 2743.24 | 447.77 |
| EAILAIHKEAQR | O43707 | 3 | 2210.93 | 460.26 |
| EAILAIHKEAQR | O43707 | 2 | 2215.06 | 689.89 |
| EALEKTEKQLEAIDQLHLEYAK | O43707 | 4 | 7225.32 | 650.60 |
| EGLLLWC(Methylthio)QR | O43707 | 2 | 9692.16 | 582.29 |

| | | | | |
|------------------------------|--------|---|----------|--------|
| ELPPDQAEYC(Methylthio)IAR | O43707 | 2 | 7002.71 | 775.85 |
| ELPPDQAEYC(Methylthio)IAR | O43707 | 2 | 7083.91 | 775.85 |
| ETTDTDADQVIASFK | O43707 | 2 | 8062.69 | 871.41 |
| FAIQDISVEETSAK | O43707 | 2 | 7063.20 | 769.39 |
| GISQEQM(Oxidation)QEFR | O43707 | 2 | 2739.50 | 684.81 |
| GISQEQMQEFR | O43707 | 2 | 4339.88 | 676.82 |
| GISQEQM(Oxidation)QEFR | O43707 | 2 | 4353.66 | 684.81 |
| GYEEWLLNEIR | O43707 | 2 | 10169.93 | 711.36 |
| HRDYETATLSDIK | O43707 | 3 | 3041.19 | 516.93 |
| HRPELIEYDK | O43707 | 3 | 2334.19 | 433.89 |
| HRPELIEYDK | O43707 | 2 | 2317.06 | 650.34 |
| HRPELIEYDKLR | O43707 | 4 | 3072.91 | 392.97 |
| HRPELIEYDKLR | O43707 | 3 | 3056.43 | 523.62 |
| HRPELIEYDKLRK | O43707 | 4 | 2437.01 | 424.99 |
| HTNYTMEHIR | O43707 | 2 | 1866.52 | 651.30 |
| HTNYTM(Oxidation)EHIR | O43707 | 3 | 1455.93 | 439.87 |
| HTNYTM(Oxidation)EHIR | O43707 | 2 | 1456.59 | 659.30 |
| HTNYTMEHIR | O43707 | 3 | 1855.45 | 434.54 |
| IAESNHIK | O43707 | 2 | 1235.63 | 456.25 |
| IAESNHIKLSGSNPYTTVTPQIINS... | O43707 | 4 | 5891.40 | 703.88 |
| IC(Methylthio)DQWDALGSLTH... | O43707 | 3 | 8717.28 | 583.27 |
| INNWNKALDFIASK | O43707 | 3 | 6288.21 | 516.29 |
| ISIEMNGTLEDQLSHLK | O43707 | 3 | 8458.92 | 643.33 |
| ISIEM(Oxidation)NGTLEDQLS... | O43707 | 3 | 7310.00 | 648.66 |
| ISIEM(Oxidation)NGTLEDQLS... | O43707 | 4 | 7457.52 | 630.82 |
| KAGTQIENIDEDFRDGLK | O43707 | 3 | 5572.19 | 683.68 |
| KAGTQIENIDEDFRDGLK | O43707 | 4 | 5566.69 | 513.01 |
| KDDPVTNLNNAFEVAEK | O43707 | 3 | 6826.99 | 635.32 |
| KDDPVTNLNNAFEVAEK | O43707 | 2 | 6826.29 | 952.47 |
| KDDPVTNLNNAFEVAEKYLDIPK | O43707 | 3 | 11618.90 | 878.45 |
| KDDPVTNLNNAFEVAEKYLDIPK | O43707 | 4 | 11629.73 | 659.09 |
| KTFTAWC(Methylthio)NSHLR | O43707 | 3 | 4628.27 | 503.91 |
| KTFTAWC(Methylthio)NSHLRK | O43707 | 3 | 3352.06 | 546.61 |
| LASDLLEWIR | O43707 | 2 | 10366.11 | 608.34 |
| LASDLLEWIRR | O43707 | 3 | 8660.76 | 457.93 |
| LDHLAEK | O43707 | 2 | 1399.43 | 413.23 |
| LDHLAEKFR | O43707 | 3 | 2308.99 | 376.88 |
| LM(Oxidation)LLEVISGERLP... | O43707 | 4 | 8470.91 | 528.06 |
| LMLLEVISGERLPKPER | O43707 | 4 | 9520.17 | 524.06 |
| LRKDDPVTNLNNAFEVAEK | O43707 | 4 | 5943.50 | 544.04 |
| LRKDDPVTNLNNAFEVAEKYLDIPK | O43707 | 4 | 10641.49 | 726.39 |
| LSGSNPYTTVTPQIINSK | O43707 | 2 | 6625.51 | 960.51 |
| LSGSNPYTTVTPQIINSKWEK | O43707 | 3 | 6923.35 | 788.41 |
| LSNRPAFMPSEK | O43707 | 3 | 3100.77 | 478.58 |
| LVSIGAEIIVDGNK | O43707 | 2 | 6663.17 | 757.91 |
| M(Oxidation)APYQGPDAVPGAL... | O43707 | 2 | 6433.07 | 904.93 |
| MAPYQGPDAVPGALDYK | O43707 | 2 | 7001.32 | 896.93 |
| M(Oxidation)APYQGPDAVPGAL... | O43707 | 2 | 6998.59 | 904.93 |
| M(Oxidation)LDAEDIVNTARPD... | O43707 | 3 | 5738.10 | 611.63 |
| M(Oxidation)LDAEDIVNTARPD... | O43707 | 2 | 5737.40 | 916.94 |
| MLDAEDIVNTARPDEK | O43707 | 3 | 6487.18 | 606.30 |
| MLDAEDIVNTARPDEK | O43707 | 2 | 6486.87 | 908.94 |
| M(Oxidation)LDAEDIVNTARPD... | O43707 | 3 | 6486.32 | 611.63 |
| M(Oxidation)LDAEDIVNTARPD... | O43707 | 2 | 6492.91 | 916.94 |
| NVNVQNFHISWK | O43707 | 2 | 6305.44 | 743.38 |
| NVNVQNFHISWK | O43707 | 3 | 6296.92 | 495.92 |

| | | | | |
|-------------------------------|--------|---|----------|---------|
| QFASQANVVG PWIQT K | O43707 | 2 | 7605.79 | 887.47 |
| QLEAIDQLHLEYAK | O43707 | 3 | 6835.31 | 557.63 |
| QLEAIDQLHLEYAKR | O43707 | 4 | 5640.68 | 457.50 |
| RDHALLEE QSK | O43707 | 3 | 1618.19 | 442.56 |
| RDHALLEE QSKQ QSNEHLR | O43707 | 4 | 1829.30 | 580.30 |
| RQFASQANVVG PWIQT K | O43707 | 3 | 5919.51 | 644.01 |
| RTIPWLED RVPQK | O43707 | 3 | 4602.85 | 546.64 |
| SIVDYKPNLDLLEQQHQ LIQEALIF... | O43707 | 4 | 11309.39 | 831.94 |
| SIVDYKPNLDLLEQQHQ LIQEALIF... | O43707 | 3 | 11306.86 | 1108.92 |
| TAPYKVN NVQNFHISWK | O43707 | 4 | 5925.81 | 512.27 |
| TAPYKVN NVQNFHISWK | O43707 | 3 | 5922.83 | 682.69 |
| TEKQLEAIDQLHLEYAK | O43707 | 4 | 5985.63 | 508.02 |
| TEKQLEAIDQLHLEYAK | O43707 | 3 | 5989.08 | 677.02 |
| TFTAWC(Methylthio)NSHLR | O43707 | 3 | 6199.54 | 461.21 |
| TFTAWC(Methylthio)NSHLR | O43707 | 2 | 6243.15 | 691.31 |
| TINEVENQILTR | O43707 | 2 | 6198.35 | 715.39 |
| TIQEMQ QK | O43707 | 2 | 1659.65 | 503.26 |
| VGWEQLLT TIAR | O43707 | 2 | 11063.02 | 693.89 |
| VHKPPKVQEK | O43707 | 3 | 1081.02 | 397.24 |
| VHKPPKVQEK | O43707 | 2 | 1104.93 | 595.36 |
| VLADGNFITA EELR | O43707 | 3 | 5870.35 | 559.31 |
| VLADGNFITA EELR | O43707 | 2 | 5867.80 | 838.45 |
| VLADGNFITA EELRR | O43707 | 4 | 4742.17 | 458.76 |
| VLA VNQENEHLM(Oxidation)ED... | O43707 | 3 | 4114.35 | 692.99 |
| VLA VNQENEHLMEDY EK | O43707 | 3 | 5428.68 | 687.66 |
| VLA VNQENEHLM(Oxidation)ED... | O43707 | 2 | 4120.65 | 1038.98 |
| VQQLV PK | O43707 | 2 | 2270.17 | 406.26 |
| AKFEELNMDLFR | P11021 | 3 | 7827.10 | 504.92 |
| AKFEELNM(Oxidation)DLFR | P11021 | 3 | 6340.88 | 510.25 |
| AKFEELNM(Oxidation)DLFR | P11021 | 2 | 6341.70 | 764.88 |
| AKFEELNMDLFR | P11021 | 2 | 7827.76 | 756.88 |
| AVEEKIEWLESHQDADIEDFK | P11021 | 3 | 7623.84 | 844.40 |
| AVEEKIEWLESHQDADIEDFKAK | P11021 | 4 | 6832.87 | 683.33 |
| DAGTIAGLNVM(Oxidation)R | P11021 | 2 | 5466.52 | 617.32 |
| DAGTIAGLNVMR | P11021 | 2 | 7130.61 | 609.32 |
| DAGTIAGLNVM(Oxidation)R | P11021 | 2 | 7157.32 | 617.32 |
| DAGTIAGLNVM(Oxidation)R | P11021 | 2 | 5517.68 | 617.31 |
| DNHLLGTFDLTGIPPAPR | P11021 | 3 | 9496.78 | 645.34 |
| DNHLLGTFDLTGIPPAPR | P11021 | 2 | 9506.43 | 967.51 |
| DNHLLGTFDLTGIPPAPR | P11021 | 3 | 9504.56 | 645.34 |
| ELEEIVQPIISK | P11021 | 2 | 7934.60 | 699.40 |
| FEELNM(Oxidation)DLFR | P11021 | 2 | 7569.60 | 665.31 |
| FEELNMDLFR | P11021 | 2 | 9376.14 | 657.31 |
| FLPFKVVEK | P11021 | 2 | 5178.59 | 553.83 |
| FLPFKVVEKK | P11021 | 3 | 3612.48 | 412.26 |
| FLPFKVVEKK | P11021 | 2 | 3627.05 | 617.88 |
| IDTRNELESYAYS LK | P11021 | 3 | 6935.43 | 601.30 |
| IDTRNELESYAYS LKNQIGDKEK | P11021 | 4 | 7094.46 | 679.35 |
| IEIESFYEGEDFSETLTR | P11021 | 2 | 10138.13 | 1083.00 |
| IEWLESHQDADIEDFK | P11021 | 3 | 7545.04 | 658.97 |
| IINEPTAAAIAYGLDK | P11021 | 2 | 8020.47 | 830.45 |
| IINEPTAAAIAYGLDKR | P11021 | 3 | 6870.54 | 606.00 |
| IINEPTAAAIAYGLDKR | P11021 | 2 | 6867.05 | 908.50 |
| ITITNDQNR | P11021 | 2 | 2138.96 | 537.78 |
| ITITNDQNRLTPEEIER | P11021 | 3 | 5248.06 | 681.35 |
| ITPSYVAFTPEGER | P11021 | 2 | 6421.94 | 783.89 |

| | | | | |
|------------------------------|--------|---|----------|---------|
| ITPSYVAFTPEGERLIGDAAK | P11021 | 3 | 7958.74 | 745.73 |
| KELEEIVQPIISK | P11021 | 3 | 6304.49 | 509.30 |
| KELEEIVQPIISK | P11021 | 2 | 6305.72 | 763.45 |
| KKELEEIVQPIISK | P11021 | 3 | 5133.47 | 552.00 |
| KSDIDEIVLVGGSTR | P11021 | 3 | 6037.10 | 530.29 |
| KSQIFSTASDNQPTVTIK | P11021 | 3 | 4607.32 | 655.68 |
| KSQIFSTASDNQPTVTIK | P11021 | 2 | 4611.97 | 983.02 |
| KTKPYIQVDIGGGQTK | P11021 | 3 | 2961.09 | 578.32 |
| KTKPYIQVDIGGGQTK | P11021 | 2 | 2951.68 | 866.98 |
| KVTHAVVTVPAYFNDAQR | P11021 | 4 | 4617.77 | 504.77 |
| KVTHAVVTVPAYFNDAQR | P11021 | 3 | 4612.83 | 672.69 |
| LIGDAAKNQLTSNPENTVFDAK | P11021 | 3 | 6558.55 | 782.74 |
| LTPEEIER | P11021 | 2 | 3254.01 | 493.76 |
| LYGSAGPPPTGEEDTAEKDEL | P11021 | 2 | 5768.97 | 1088.50 |
| MKETAEAYLGK | P11021 | 2 | 2781.25 | 620.82 |
| M(Oxidation)KETAEAYLGK | P11021 | 2 | 2236.90 | 628.81 |
| MKETAEAYLGKK | P11021 | 3 | 2110.37 | 456.91 |
| M(Oxidation)KETAEAYLGKK | P11021 | 2 | 1793.09 | 692.86 |
| M(Oxidation)KETAEAYLGKK | P11021 | 3 | 1796.96 | 462.24 |
| MKETAEAYLGKK | P11021 | 2 | 2108.19 | 684.86 |
| MVNDAEKFAEEDK | P11021 | 3 | 3309.46 | 509.23 |
| M(Oxidation)VNDAEKFAEEDKK | P11021 | 3 | 2051.82 | 557.26 |
| M(Oxidation)VNDAEKFAEEDKK | P11021 | 2 | 2046.91 | 835.39 |
| MVNDAEKFAEEDKK | P11021 | 3 | 2423.62 | 551.93 |
| M(Oxidation)VNDAEKFAEEDKK... | P11021 | 3 | 2498.13 | 637.66 |
| M(Oxidation)VNDAEKFAEEDKK... | P11021 | 4 | 2396.85 | 549.78 |
| NELESYAYSLK | P11021 | 2 | 6436.32 | 658.82 |
| NQLTSNPENTVFDAK | P11021 | 2 | 5446.82 | 839.41 |
| NQLTSNPENTVFDAKR | P11021 | 3 | 4260.53 | 611.97 |
| NQLTSNPENTVFDAKR | P11021 | 2 | 4256.22 | 917.46 |
| QATKDAGTIAGLNVM(Oxidation... | P11021 | 3 | 3539.53 | 554.63 |
| QATKDAGTIAGLNVM(Oxidation... | P11021 | 2 | 3539.12 | 831.44 |
| RALSSQHQR | P11021 | 2 | 1103.17 | 577.32 |
| RALSSQHQR | P11021 | 3 | 1103.54 | 385.21 |
| SDIDEIVLVGGSTR | P11021 | 2 | 7895.83 | 730.88 |
| SQIFSTASDNQPTVTIK | P11021 | 2 | 6081.44 | 918.97 |
| TFAPEEISAMVLTK | P11021 | 2 | 9476.05 | 768.90 |
| TFAPEEISAM(Oxidation)VLTK | P11021 | 2 | 7953.70 | 776.90 |
| TFAPEEISAM(Oxidation)VLTK | P11021 | 2 | 9484.35 | 776.90 |
| TKPYIQVDIGGGQTK | P11021 | 3 | 4136.75 | 535.63 |
| TKPYIQVDIGGGQTK | P11021 | 2 | 4133.47 | 802.94 |
| TWNDPSVQQDIK | P11021 | 2 | 4695.89 | 715.85 |
| VEIANDQGNR | P11021 | 2 | 2876.84 | 614.82 |
| VLEDSDLKK | P11021 | 2 | 1841.47 | 523.79 |
| VLEDSDLKKSDIDEIVLVGGSTR | P11021 | 4 | 7426.59 | 622.83 |
| VLEDSDLKKSDIDEIVLVGGSTR | P11021 | 3 | 7427.12 | 830.11 |
| VM(Oxidation)EHFIK | P11021 | 2 | 1954.59 | 460.24 |
| VTHAVVTVPAYFNDAQR | P11021 | 3 | 5758.44 | 629.99 |
| VTHAVVTVPAYFNDAQR | P11021 | 2 | 5757.18 | 944.49 |
| VYEGERPLTK | P11021 | 2 | 1926.05 | 596.32 |
| VYEGERPLTK | P11021 | 3 | 1926.28 | 397.88 |
| VYEGERPLTKDNHLLGTFDLTGIPP... | P11021 | 4 | 7715.33 | 777.41 |
| AEGSDVANAVLDGADC(Methylth... | P14618 | 2 | 10952.13 | 1250.06 |
| AEGSDVANAVLDGADC(Methylth... | P14618 | 2 | 12179.14 | 1242.06 |
| AEGSDVANAVLDGADC(Methylth... | P14618 | 3 | 11358.25 | 1167.21 |
| AEGSDVANAVLDGADC(Methylth... | P14618 | 3 | 12170.15 | 1161.87 |

| | | | | |
|-------------------------------|--------|---|----------|---------|
| AGKPVIC(Methylthio)ATQM(O... | P14618 | 3 | 6100.48 | 633.31 |
| AGKPVIC(Methylthio)ATQM(O... | P14618 | 3 | 7928.94 | 627.98 |
| AGKPVIC(Methylthio)ATQMLE... | P14618 | 3 | 7557.32 | 627.98 |
| AGKPVIC(Methylthio)ATQMLE... | P14618 | 3 | 9885.21 | 627.98 |
| APIIAVTR | P14618 | 2 | 3531.77 | 420.77 |
| APIIAVTR | P14618 | 2 | 3553.53 | 420.76 |
| C(Methylthio)C(Methylthio... | P14618 | 2 | 8142.61 | 600.29 |
| C(Methylthio)DENILWLDYK | P14618 | 2 | 9590.01 | 729.33 |
| EAEAAIYHLQLFEELR | P14618 | 3 | 9334.92 | 644.67 |
| EAEAAIYHLQLFEELR | P14618 | 2 | 9331.29 | 966.50 |
| EAEAAIYHLQLFEELRR | P14618 | 4 | 8073.33 | 522.78 |
| EAEAAIYHLQLFEELRR | P14618 | 3 | 8075.63 | 696.70 |
| FGVEQDVDM(Oxidation)VFASF... | P14618 | 2 | 12378.92 | 938.45 |
| FGVEQDVDMVFASFIR | P14618 | 2 | 12736.45 | 930.45 |
| FGVEQDVDM(Oxidation)VFASF... | P14618 | 3 | 10957.86 | 668.67 |
| FGVEQDVDMVFASFIRK | P14618 | 3 | 11592.60 | 663.34 |
| GDYPLEAVR | P14618 | 2 | 4567.95 | 510.26 |
| GIFPVL(C(Methylthio)KDPVQE... | P14618 | 3 | 11461.33 | 849.42 |
| GSGTAEVELK | P14618 | 2 | 2353.70 | 495.76 |
| GSGTAEVELKK | P14618 | 2 | 1677.86 | 559.81 |
| GVNLPGAAVDLPVSEKDIQDLK | P14618 | 3 | 9050.80 | 783.76 |
| IENHEGVR | P14618 | 2 | 1155.61 | 477.24 |
| IISKIENHEGVR | P14618 | 3 | 1919.34 | 465.60 |
| IISKIENHEGVR | P14618 | 2 | 1925.95 | 697.89 |
| ITLDNAYM(Oxidation)EK | P14618 | 2 | 4013.79 | 607.29 |
| ITLDNAYMEK | P14618 | 2 | 5144.14 | 599.29 |
| IYVDDGLISLQVK | P14618 | 2 | 8923.18 | 731.91 |
| KGDVVIVLTGWRPGSGFTNTM(Oxi... | P14618 | 4 | 7312.65 | 602.57 |
| KGVNLPGAAVDLPVSEKDIQDLK | P14618 | 4 | 7868.62 | 620.10 |
| KGVNLPGAAVDLPVSEKDIQDLK | P14618 | 3 | 7867.84 | 826.46 |
| LAPITSDPTEATAVGAVEASFK | P14618 | 2 | 9851.60 | 1088.06 |
| LDIDSPITAR | P14618 | 2 | 5910.75 | 599.33 |
| LNFSHGTHEYHAETIK | P14618 | 4 | 2405.09 | 471.73 |
| LNFSHGTHEYHAETIK | P14618 | 3 | 2404.96 | 628.64 |
| LNFSHGTHEYHAETIK | P14618 | 2 | 2403.79 | 942.46 |
| LNFSHGTHEYHAETIKNVR | P14618 | 4 | 2499.01 | 564.03 |
| LNFSHGTHEYHAETIKNVR | P14618 | 3 | 2511.51 | 751.71 |
| NTGIC(Methylthio)TIGPASR | P14618 | 2 | 7053.33 | 674.84 |
| QKGADFLVTEVENGGSLGSK | P14618 | 3 | 6957.20 | 679.35 |
| RFDEILEASDGIM(Oxidation)V... | P14618 | 3 | 7467.10 | 613.31 |
| RFDEILEASDGIMVAR | P14618 | 3 | 8451.01 | 607.98 |
| RFDEILEASDGIM(Oxidation)V... | P14618 | 3 | 8441.11 | 613.31 |
| RLAPITSDPTEATAVGAVEASFK | P14618 | 3 | 8420.56 | 777.74 |
| SVETLKEM(Oxidation)IK | P14618 | 2 | 2674.97 | 597.33 |
| SVETLKEMIK | P14618 | 2 | 4339.08 | 589.33 |
| SVETLKEM(Oxidation)IK | P14618 | 3 | 2757.07 | 398.55 |
| TATESFASDPILYRPVAVALDTK | P14618 | 3 | 9070.19 | 822.43 |
| TATESFASDPILYRPVAVALDTK | P14618 | 2 | 9075.68 | 1233.14 |
| TATESFASDPILYRPVAVALDTKGP... | P14618 | 4 | 8837.08 | 755.15 |
| TATESFASDPILYRPVAVALDTKGP... | P14618 | 3 | 8836.86 | 1006.54 |
| TGLIKGSGTAEVELK | P14618 | 2 | 3823.34 | 751.92 |
| TGLIKGSGTAEVELK | P14618 | 3 | 3804.51 | 501.62 |
| TGLIKGSGTAEVELKK | P14618 | 3 | 2779.90 | 544.32 |
| TGLIKGSGTAEVELKK | P14618 | 2 | 2786.83 | 815.97 |
| VNFAM(Oxidation)NVGK | P14618 | 2 | 2845.80 | 498.25 |
| VNFAMNVGK | P14618 | 2 | 4515.04 | 490.26 |

| | | | | |
|-------------------------------|--------|---|----------|---------|
| EANQAINPK | P17844 | 2 | 1368.20 | 492.76 |
| ELAQQVQQVAAEYC(Methylthio... | P17844 | 2 | 10292.83 | 891.42 |
| FVINYDYPNSEDYIHR | P17844 | 3 | 7106.52 | 711.33 |
| GHNC(Methylthio)PKPVLNFYE... | P17844 | 4 | 9073.68 | 745.36 |
| GHNC(Methylthio)PKPVLNFYE... | P17844 | 4 | 10392.74 | 741.36 |
| GLDVEDVKFVINYDYPNSEDYIHR | P17844 | 4 | 9214.17 | 747.61 |
| GLDVEDVKFVINYDYPNSEDYIHR | P17844 | 3 | 9211.06 | 996.47 |
| GYSSLLKR | P17844 | 2 | 2635.44 | 462.27 |
| HGKAPILIATDVASR | P17844 | 3 | 3600.58 | 516.97 |
| KKWNLDELPKFEK | P17844 | 4 | 4703.52 | 419.49 |
| LIDFLEC(Methylthio)GK | P17844 | 2 | 9345.30 | 542.26 |
| LMEEMSEKENK | P17844 | 3 | 3848.71 | 494.24 |
| LM(Oxidation)EEIM(Oxidati... | P17844 | 3 | 1706.27 | 504.90 |
| NFYQEHPDLAR | P17844 | 3 | 3390.43 | 463.89 |
| NFYQEHPDLAR | P17844 | 2 | 3389.48 | 695.33 |
| QVSDLISVLR | P17844 | 2 | 8288.14 | 565.33 |
| RTAQEVETYRR | P17844 | 3 | 1445.81 | 470.25 |
| TAQEVETYRR | P17844 | 2 | 1618.41 | 626.82 |
| TGTAYTFFTPNNIK | P17844 | 2 | 7214.46 | 787.90 |
| TGTAYTFFTPNNIKQVSDLISVLR | P17844 | 3 | 12122.62 | 895.81 |
| TIVFVETK | P17844 | 2 | 4564.87 | 468.77 |
| TIVFVETKR | P17844 | 2 | 3025.94 | 546.82 |
| TIVFVETKR | P17844 | 3 | 3024.25 | 364.88 |
| TLSYLLPAIVHINHQPFLER | P17844 | 4 | 9139.56 | 591.08 |
| WNLDELPKFEK | P17844 | 3 | 7573.15 | 473.58 |
| ATAPQTQHVSPM(Oxidation)R | P29692 | 2 | 1382.54 | 720.36 |
| ATAPQTQHVSPM(Oxidation)R | P29692 | 3 | 1384.88 | 480.57 |
| GVVQELQQAISK | P29692 | 2 | 8047.50 | 650.37 |
| GVVQELQQAISKLEAR | P29692 | 3 | 10876.25 | 590.34 |
| GVVQELQQAISKLEAR | P29692 | 2 | 10871.97 | 885.00 |
| IASLEVENQSLR | P29692 | 2 | 5007.93 | 679.87 |
| LVPVGYGIR | P29692 | 2 | 5088.31 | 487.30 |
| LVPVGYGIRK | P29692 | 2 | 3203.97 | 551.34 |
| SIQLDGLVWGASK | P29692 | 2 | 8819.78 | 687.37 |
| SLAGSSGPGASSGTSGDHGELVVR | P29692 | 3 | 3552.50 | 729.02 |
| SLAGSSGPGASSGTSGDHGELVVR | P29692 | 2 | 3550.73 | 1093.03 |
| SSILLDVKPWDDDETDM(Oxidatio... | P29692 | 3 | 10603.67 | 932.77 |
| DGEEAGAYDGPR | P30101 | 2 | 2686.20 | 618.76 |
| DLLIAYYDVDYEK | P30101 | 2 | 9910.53 | 810.40 |
| DLLIAYYDVDYEKNAK | P30101 | 2 | 8151.77 | 966.98 |
| DLLIAYYDVDYEKNAK | P30101 | 3 | 8153.70 | 644.99 |
| EATNPPVIQEEKPK | P30101 | 3 | 2402.50 | 527.28 |
| EATNPPVIQEEKPK | P30101 | 2 | 2396.37 | 790.42 |
| EATNPPVIQEEKPKK | P30101 | 3 | 1857.51 | 569.98 |
| EATNPPVIQEEKPKK | P30101 | 2 | 1858.65 | 854.47 |
| EATNPPVIQEEKPKKK | P30101 | 3 | 1543.99 | 612.68 |
| EATNPPVIQEEKPKKK | P30101 | 2 | 1537.95 | 918.51 |
| EATNPPVIQEEKPKKK | P30101 | 4 | 1540.43 | 459.76 |
| ELSDFISYLQR | P30101 | 2 | 10203.67 | 685.85 |
| FEDKTVAYTEQK | P30101 | 2 | 2438.88 | 729.86 |
| FEDKTVAYTEQK | P30101 | 3 | 2439.18 | 486.91 |
| FIQENIFGIC(Methylthio)PHM... | P30101 | 4 | 9449.37 | 709.84 |
| FIQENIFGIC(Methylthio)PHM... | P30101 | 4 | 8473.24 | 713.84 |
| FISDKDASIVGFFDDSFSEAHSEFL... | P30101 | 4 | 11062.29 | 735.35 |
| FISDKDASIVGFFDDSFSEAHSEFL... | P30101 | 3 | 11060.77 | 980.13 |
| FLDAGHKLNFVAVSR | P30101 | 4 | 5106.87 | 412.23 |

| | | | | |
|------------------------------|--------|---|----------|---------|
| FLDAGHKLNFASR | P30101 | 3 | 5101.44 | 549.30 |
| FLDAGHKLNFASRK | P30101 | 4 | 3906.42 | 444.25 |
| FLQDYFDGNLK | P30101 | 2 | 8189.42 | 680.33 |
| FLQDYFDGNLKR | P30101 | 3 | 6540.39 | 505.92 |
| FLQDYFDGNLKR | P30101 | 2 | 6540.71 | 758.38 |
| FVM(Oxidation)QEEFSR | P30101 | 2 | 3414.10 | 594.77 |
| FVMQEEFSR | P30101 | 2 | 5468.39 | 586.77 |
| FVM(Oxidation)QEEFSR | P30101 | 2 | 5459.61 | 594.77 |
| FVM(Oxidation)QEEFSRDGK | P30101 | 3 | 2632.30 | 496.90 |
| FVMQEEFSRDGK | P30101 | 3 | 4236.19 | 491.57 |
| FVM(Oxidation)QEEFSRDGK | P30101 | 2 | 2642.04 | 744.84 |
| FVM(Oxidation)QEEFSRDGK | P30101 | 3 | 4241.68 | 496.90 |
| GEKFVM(Oxidation)QEEFSR | P30101 | 2 | 3055.86 | 751.85 |
| GEKFVM(Oxidation)QEEFSRDG... | P30101 | 3 | 2499.24 | 601.62 |
| GEKFVMQEEFSRDGK | P30101 | 3 | 3567.85 | 596.29 |
| GFPTIYFSPANK | P30101 | 2 | 7787.46 | 671.35 |
| GFPTIYFSPANKK | P30101 | 2 | 5901.08 | 735.39 |
| GFPTIYFSPANKK | P30101 | 3 | 5900.67 | 490.60 |
| IFRDGEEAGAYDGPR | P30101 | 2 | 3383.93 | 826.89 |
| IFRDGEEAGAYDGPR | P30101 | 3 | 3384.40 | 551.59 |
| IFRDGEEAGAYDGPR | P30101 | 3 | 3667.39 | 551.60 |
| KFIQENIFGIC(Methylthio)PH... | P30101 | 4 | 7527.33 | 745.86 |
| KFISDKDASIVGFFDDSFSEAHSEF... | P30101 | 4 | 10090.20 | 767.37 |
| KFLDAGHK | P30101 | 2 | 1421.20 | 458.26 |
| KFLDAGHKLNFASR | P30101 | 4 | 4272.68 | 444.25 |
| KFLDAGHKLNFASR | P30101 | 3 | 4288.55 | 592.00 |
| KFLDAGHKLNFASRK | P30101 | 4 | 3346.88 | 476.27 |
| KQAGPASVPLRTEEEFKK | P30101 | 3 | 2663.35 | 672.37 |
| KTFSHELSDFGLESTAGEIPVVAIR | P30101 | 4 | 8992.31 | 676.60 |
| KTFSHELSDFGLESTAGEIPVVAIR | P30101 | 3 | 8985.33 | 901.80 |
| KYEGGRELSDFISYLQR | P30101 | 3 | 8106.57 | 687.68 |
| KYEGGRELSDFISYLQR | P30101 | 4 | 8098.05 | 516.02 |
| LAPEYEEAATR | P30101 | 2 | 3127.73 | 596.30 |
| LKGIVPLAK | P30101 | 2 | 3181.18 | 469.82 |
| LNFASR | P30101 | 2 | 4093.87 | 439.25 |
| LNFASRK | P30101 | 2 | 2522.07 | 503.30 |
| LSKDPNIVIAK | P30101 | 2 | 2868.45 | 599.36 |
| LSKDPNIVIAK | P30101 | 3 | 2869.05 | 399.91 |
| M(Oxidation)DATANDVPSPYEV... | P30101 | 2 | 5066.94 | 840.88 |
| MDATANDVPSPYEVR | P30101 | 2 | 5737.81 | 832.88 |
| M(Oxidation)DATANDVPSPYEV... | P30101 | 2 | 5739.93 | 840.88 |
| QAGPASVPLRTEEEFKK | P30101 | 3 | 3441.43 | 629.67 |
| QAGPASVPLRTEEEFKK | P30101 | 2 | 3435.78 | 944.00 |
| RLAPEYEEAATR | P30101 | 2 | 2512.53 | 674.35 |
| RLAPEYEEAATR | P30101 | 3 | 2519.11 | 449.90 |
| SEPIPESNDGPVK | P30101 | 2 | 3191.68 | 684.84 |
| TADGIVSHLK | P30101 | 2 | 2761.46 | 520.79 |
| TADGIVSHLKK | P30101 | 3 | 2127.76 | 390.23 |
| TADGIVSHLKK | P30101 | 2 | 2140.20 | 584.84 |
| TAKGEKFVM(Oxidation)QEEFS... | P30101 | 3 | 2492.49 | 601.63 |
| TAKGEKFVMQEEFSR | P30101 | 3 | 3352.26 | 596.30 |
| TFSHELSDFGLESTAGEIPVVAIR | P30101 | 3 | 10201.80 | 859.11 |
| TFSHELSDFGLESTAGEIPVVAIR | P30101 | 2 | 10202.28 | 1288.16 |
| VDC(Methylthio)TANTNTC(Me... | P30101 | 2 | 3759.41 | 688.26 |
| VDC(Methylthio)TANTNTC(Me... | P30101 | 3 | 6995.09 | 814.36 |
| YEGGRELSDFISYLQR | P30101 | 3 | 9493.99 | 644.99 |

| | | | | |
|---------------------------------|--------|---|----------|---------|
| YGVSGYPTLK | P30101 | 2 | 4804.40 | 542.79 |
| YKELGEK | P30101 | 2 | 1343.25 | 433.73 |
| YKELGEKLSKDPNIVIAK | P30101 | 4 | 3795.88 | 512.05 |
| YKELGEKLSKDPNIVIAK | P30101 | 3 | 3797.26 | 682.39 |
| AFTHTAQYDEAISDYFR | P31939 | 3 | 7432.15 | 678.98 |
| AFTHTAQYDEAISDYFRK | P31939 | 4 | 6271.44 | 541.51 |
| ALFEEVPELLTEAEKK | P31939 | 3 | 9602.14 | 616.00 |
| APGQLALFSVSDK | P31939 | 2 | 7400.69 | 666.86 |
| APGQLALFSVSDKTGLVEFAR | P31939 | 3 | 9516.75 | 736.07 |
| DVSELTGFPEMLGGR | P31939 | 2 | 10580.67 | 804.39 |
| DVSELTGFPEM(Oxidation)LGG... | P31939 | 2 | 8971.72 | 812.39 |
| ELKEALGIPAAASF | P31939 | 3 | 6599.94 | 515.63 |
| ELKEALGIPAAASF | P31939 | 2 | 6586.68 | 772.94 |
| EVSDGIIAPGYEEEEALTILSK | P31939 | 2 | 11580.53 | 1117.58 |
| HVSPAGAAVGIPLSEDEAK | P31939 | 3 | 5079.59 | 616.65 |
| HVSPAGAAVGIPLSEDEAK | P31939 | 2 | 5082.97 | 924.48 |
| IISREVS DGIIAPGYEEEEALTILSK | P31939 | 3 | 10294.32 | 901.82 |
| LDFNLIR | P31939 | 2 | 7494.89 | 445.76 |
| MSSFGDFVALSDVC(Methylthio... | P31939 | 2 | 12221.59 | 1067.98 |
| M(Oxidation)SSFGDFVALSDVC... | P31939 | 2 | 11978.98 | 1075.98 |
| NLTALGLNLVASGGTAK | P31939 | 2 | 8755.21 | 800.46 |
| RAEISNAIDQYVTGTIGEDEDLIKW... | P31939 | 4 | 10347.53 | 741.88 |
| SLFSNVVTK | P31939 | 2 | 5398.72 | 497.78 |
| TLFGLHLSQK | P31939 | 3 | 5323.70 | 381.89 |
| TLHPAVHAGILAR | P31939 | 3 | 2857.14 | 452.60 |
| TLHPAVHAGILAR | P31939 | 2 | 2849.73 | 678.40 |
| TLTPISAAYAR | P31939 | 2 | 4924.91 | 582.32 |
| TVASPGVTVEEAVEQIDIGGVTLRL | P31939 | 2 | 12497.68 | 1277.19 |
| VVAC(Methylthio)NLYPFVK | P31939 | 2 | 9314.53 | 649.84 |
| YGM(Oxidation)NPHQTPAQLYT... | P31939 | 3 | 4531.34 | 701.68 |
| YGMNPHQTPAQLYTLQPK | P31939 | 3 | 5581.15 | 696.35 |
| YTQSNSVC(Methylthio)YAK | P31939 | 2 | 3063.91 | 655.28 |
| AFSDPFVEAEK | P34932 | 2 | 6454.61 | 620.30 |
| AGGIETIANEYS DR | P34932 | 2 | 5849.11 | 748.35 |
| C(Methylthio)TPAC(Methyl... | P34932 | 2 | 7438.50 | 608.25 |
| EFSDTDVVPYISLR | P34932 | 2 | 11816.10 | 868.47 |
| ELSTTLNADEAVTR | P34932 | 2 | 5198.27 | 760.38 |
| FDEVLVNHFC(Methylthio)EEF... | P34932 | 3 | 10386.51 | 620.28 |
| FFGKELSTTLNADEAVTR | P34932 | 3 | 6859.29 | 667.01 |
| FLEMC(Methylthio)NDLLAR | P34932 | 2 | 11055.08 | 685.82 |
| FQSEERP KLFEE LGK | P34932 | 4 | 5233.77 | 492.25 |
| IKELTSTC(Methylthio)SPIIS... | P34932 | 4 | 3648.77 | 504.79 |
| KEPFTLEAYYSSPQDLPYPDPAIAQ... | P34932 | 3 | 10515.90 | 1143.90 |
| LFEELGK | P34932 | 2 | 4953.88 | 418.23 |
| LKETAESVLK | P34932 | 2 | 2365.42 | 559.33 |
| LMNETTAV ALAYGIYKQDLPAL E EK... | P34932 | 4 | 10383.19 | 759.41 |
| NAVEEYVYEM(Oxidation)R | P34932 | 2 | 5247.04 | 709.82 |
| NAVEEYVYEMR | P34932 | 2 | 6999.67 | 701.82 |
| NKEDQYDHLDAADMTK | P34932 | 3 | 3340.65 | 631.95 |
| NKEDQYDHLDAADMTKVEK | P34932 | 4 | 3694.05 | 563.26 |
| SNLAYDIVQLPTGLTG I K | P34932 | 2 | 10857.13 | 952.03 |
| SVM(Oxidation)DATQIAGLNC(... | P34932 | 2 | 8793.51 | 827.39 |
| VREFSITDVVPYISLR | P34932 | 3 | 10028.64 | 664.37 |
| WNSPAEEGSSDC(Methylthio)E... | P34932 | 2 | 7455.46 | 959.38 |
| KEELLKQLDDLKVELSQR | P42766 | 4 | 9408.30 | 575.08 |
| KKEELLKQLDDLKVELSQR | P42766 | 4 | 8398.95 | 607.11 |

| | | | | |
|------------------------------|--------|---|----------|--------|
| KYKPLDLRPK | P42766 | 3 | 1983.58 | 419.93 |
| KYKPLDLRPK | P42766 | 2 | 1977.58 | 629.39 |
| VLTVINQTQK | P42766 | 2 | 3202.67 | 572.34 |
| VLTVINQTQKENLR | P42766 | 2 | 3598.19 | 828.48 |
| VLTVINQTQKENLR | P42766 | 3 | 3607.01 | 552.65 |
| VLTVINQTQKENLRK | P42766 | 3 | 2632.91 | 595.35 |
| VLTVINQTQKENLRK | P42766 | 4 | 2642.46 | 446.76 |
| YKPLDLRPK | P42766 | 3 | 2467.57 | 377.23 |
| YKPLDLRPK | P42766 | 2 | 2470.30 | 565.34 |
| ALGLGVEQLPVVFEDVVLHQATILP... | P49327 | 3 | 12787.72 | 929.20 |
| DTVTISGPQAPVFEFVEQLRK | P49327 | 3 | 11164.71 | 787.75 |
| LHLSGIDANPNALFPPVEFPAPR | P49327 | 3 | 10323.42 | 824.77 |
| LSIPTYGLQC(Methylthio)TR | P49327 | 2 | 8402.01 | 699.35 |
| SLYQSAGVAPESFEYIEAHGTGTK | P49327 | 3 | 7516.59 | 848.07 |
| YSGTLNLDR | P49327 | 2 | 3715.14 | 519.76 |
| AHEILPNLVC(Methylthio)C(M... | P50990 | 3 | 8030.58 | 530.58 |
| AIADTGANVVVTGGK | P50990 | 2 | 4341.17 | 686.87 |
| ALAENSGVKANEVISK | P50990 | 2 | 2949.69 | 815.45 |
| APGFAQM(Oxidation)LK | P50990 | 2 | 3216.10 | 489.76 |
| APGFAQMLK | P50990 | 2 | 5499.77 | 481.76 |
| AVDDGVNTFK | P50990 | 2 | 3375.16 | 533.26 |
| DIDEVSSLLR | P50990 | 2 | 8499.92 | 573.80 |
| DM(Oxidation)LEAGILD TYLGK | P50990 | 2 | 10210.40 | 777.89 |
| DMLEAGILD TYLGK | P50990 | 2 | 11342.47 | 769.89 |
| EGAKHFSGLEEAVYR | P50990 | 3 | 3709.34 | 564.95 |
| ELEVQHPAAK | P50990 | 2 | 1738.63 | 561.30 |
| FAEAFEAI PR | P50990 | 2 | 6761.63 | 575.80 |
| GEENLMDAQVK | P50990 | 2 | 3994.29 | 617.29 |
| GSTDNLM(Oxidation)DDIER | P50990 | 2 | 4065.62 | 691.30 |
| GSTDNLMDDIER | P50990 | 2 | 6404.35 | 683.30 |
| GSTDNLM(Oxidation)DDIERAV... | P50990 | 3 | 11102.28 | 810.04 |
| GSTDNLMDDIERAVDDGVNTFK | P50990 | 3 | 12414.61 | 804.70 |
| GSTDNLM(Oxidation)DDIERAV... | P50990 | 3 | 10923.65 | 810.04 |
| HEKEDGAISTIVLR | P50990 | 3 | 3848.22 | 523.29 |
| HFSGLEEAVYR | P50990 | 2 | 4456.90 | 654.32 |
| IAVYSC(Methylthio)PFDGM(O... | P50990 | 2 | 9105.81 | 918.91 |
| IAVYSC(Methylthio)PFDGMIT... | P50990 | 2 | 10355.71 | 910.92 |
| IAVYSC(Methylthio)PFDGM(O... | P50990 | 3 | 9193.01 | 816.75 |
| IGLSVSEVIEGYEIAC(Methylth... | P50990 | 2 | 12319.02 | 942.47 |
| IGLSVSEVIEGYEIAC(Methylth... | P50990 | 3 | 10880.23 | 671.34 |
| ILGSGISSSSVLHGM(Oxidation... | P50990 | 3 | 6641.91 | 612.33 |
| ILGSGISSSSVLHGMVFK | P50990 | 3 | 7879.73 | 607.00 |
| ILGSGISSSSVLHGM(Oxidation... | P50990 | 4 | 5282.09 | 491.52 |
| KAHEILPNLVC(Methylthio)C(... | P50990 | 3 | 6683.04 | 573.29 |
| KFAEAFEAI PR | P50990 | 2 | 5299.80 | 639.85 |
| LATNAAVTVLR | P50990 | 2 | 4858.28 | 564.84 |
| LFVTNDAATILR | P50990 | 2 | 7771.62 | 667.38 |
| LFVTNDAATILRELEVQHPAAK | P50990 | 4 | 9354.20 | 609.84 |
| LIAQAC(Methylthio)VSIFPDS... | P50990 | 3 | 10399.00 | 821.40 |
| LVPGGGATEIELAK | P50990 | 2 | 5643.63 | 677.88 |
| MVINHLEK | P50990 | 2 | 2238.13 | 492.27 |
| M(Oxidation)VINHLEK | P50990 | 2 | 1735.39 | 500.27 |
| NIQAC(Methylthio)KELAQ TTR | P50990 | 2 | 4464.30 | 761.38 |
| NIQAC(Methylthio)KELAQ TTR | P50990 | 3 | 4473.64 | 507.92 |
| NLRDIDEVSSLLR | P50990 | 3 | 7752.87 | 510.61 |
| NLRDIDEVSSLLR | P50990 | 2 | 7751.99 | 765.42 |

| | | | | |
|------------------------------|--------|---|----------|--------|
| QITSYGETC(Methylthio)PGLE... | P50990 | 3 | 7149.47 | 725.69 |
| RLVPGGGATEIELAK | P50990 | 3 | 4654.96 | 504.29 |
| TAEELMNFSK | P50990 | 2 | 5464.72 | 585.28 |
| TAEELM(Oxidation)NFSKGEEN... | P50990 | 3 | 5630.83 | 806.04 |
| TVGATALPR | P50990 | 2 | 2714.07 | 443.26 |
| VADM(Oxidation)ALHYANK | P50990 | 2 | 2178.04 | 624.81 |
| YNIMLVR | P50990 | 2 | 5780.95 | 454.75 |
| AASDIAM(Oxidation)TELPPTH... | P62258 | 3 | 4830.87 | 612.65 |
| AASDIAMTELPPTHPIR | P62258 | 3 | 5834.49 | 607.32 |
| AASDIAM(Oxidation)TELPPTH... | P62258 | 2 | 4820.97 | 918.47 |
| EAAENSLVAYK | P62258 | 2 | 3745.63 | 597.80 |
| HLIPAANTGESK | P62258 | 2 | 2089.51 | 619.33 |
| IISIEQKEENKGGEDKLG | P62258 | 4 | 2208.95 | 537.04 |
| IISIEQKEENKGGEDKLG | P62258 | 3 | 2204.39 | 715.72 |
| LIC(Methylthio)C(Methylth... | P62258 | 4 | 12572.52 | 669.08 |
| VAGM(Oxidation)DVELTVEER | P62258 | 2 | 5025.79 | 732.36 |
| YLAEFATGNDRK | P62258 | 2 | 3177.99 | 692.85 |
| YLAEFATGNDRK | P62258 | 3 | 3181.25 | 462.23 |
| YLAEFATGNDRKEAAENSLVAYK | P62258 | 4 | 5674.94 | 640.82 |
| YLAEFATGNDRKEAAENSLVAYK | P62258 | 3 | 5680.63 | 854.09 |

Table 4: Proteins of interest.