NM_001309975.1 NM 000492.4	GGCACCTTCGGGGAAATAAGATCGTCAACTTTTTAAGGATTGTGGAGGACATTTATCGTC	60 0
NM_001009781.1	TGGAA-GCAAATGACATC	17
NM_001309975.1 NM 000492.4	CCATTGTGTCTGACTTTCCTCGGGAGCTGCGCGGGGTGGGGGACGCACACCAATGTGATCGTAGTAGGTCTTTGGCATT	120 19
NM_001009781.1	ACAGCAGGTCAGAGAAAAAGGGGCGAGCGGCAGGCAGAGAAGAGAGAG	77
NM_001309975.1 NM 000492.4	GGGGCTCAGAGACCCTCAGGTGCAGAGAAACAAAGCTGGCGCTGCTCTTAGGATGCAGAA AGGAGCTTGAGCCCAGACGGCCCTAGCA-GGGACCCCAGCGCCCCGAGAGACCATGCAGAG	180 78
NM_001009781.1	AGGAGCTTGAGCCCAGACGGCCCTAGCA-GGGACCCCAGCGCCCCGAGAGACCATGCAGAG AGGAGCTCTTGTCCGGCCTGCCCCGGCAGGGACCCCAGCGCCCCAGAGACCATGCAGAG ** *** * * * * * * * * * * * * * * *	137
NM_001309975.1 NM 000492.4	GTCACCGGTGGAAGATGCGAACTTCCTCTCCAGATTTGTCTTTTGGTGGATTACACCACT GTCGCCTCTGGAAAAGGCCAGCGTTGTCTCCAAACTTTTTTTCAGCTGGACCAGACCAAT	240 138
NM_001009781.1	GTCGCCTCTGGAAAAGGCCAGCGTTGTCTCCAAACTTTTTTTCAGCTGGACCAGACCAAT *** ** ***** * * * * * * * * * * * *	197
NM_001309975.1	GTTGAGGAAAGGTTTCACTAAAAAGTTAGAGCTGACCGACGTGTACAAGGCTCCTTCTTT TTTGAGGAAAGGATACAGACAGCGCCTGGAATTGTCAGACATATACCAAATCCCTTCTGT	300
NM_000492.4 NM_001009781.1	TTTGAGGAAAGGATACAGACAGCGCCTGGAATTGTCAGACATATACCAAATCCCTTCTGT TTTGAAGAAAGGATACAGACAGCGCTTGGAATTGTCAGACATATACCAAATCCCTTCTTC **** ***** * * * * * * * * * * * * * *	198 257
NM_001309975.1 NM_000492.4	TGACCTGGCAGACACCCTCTCCGAGAGACTCGAAAGGGAATGGGACAAAGAGGTGGTGTT TGATTCTGCTGACAATCTATCTGAAAAATTGGAAAGAGATGGGATAGAGAGCTGGCTTC	360 258
NM_001009781.1	TGATTCTGCTGACAATCTATCTGAAAAATTGGAAAGAGAATGGGATAGGAACTGGCTTC *** ** *** ** ** * * * ***** ****** * *** *** ***	317
NM_001309975.1 NM 000492.4	AGCCAAAGGCAGGCCCAAGCTCCTGAAAGCACTGGCCCGATGCTTCTTCCTCCCGTTTGC AAAGAAAAATCCTAAACTCATTAATGCCCTTCGGCGATGTTTTTTCTGGAGATTTAT	420 315
NM_001009781.1	AAAGAAAAATCCCAAACTCATTAATGCCCTTCGACGATGCTTTTTCTGGAGATTTAT * ** ** ** ** ** ** ** ** ** ** ** *** ***	374
NM_001309975.1 NM 000492.4	CTTCTTCGGTGTCCTCCTCTACCTCGGGGAGGCGTCCAAGACTGTGCAGCCTCAGCTTTC GTTCTATGGAATCTTTTTATATTTAGGGGAAGTCACCAAAGCAGTACAGCCTCTCTTACT	480 375
NM_001009781.1	GTTCTATGGAATCTTTTTATATTTAGGGGAAGTCACCAAAGCAGTACAGCCTCTTACT **** ** ** * * * * ***** * ***** * * ****	434
NM_001309975.1 NM 000492.4	AGGTCGCATCATTGCTTCCTTCGACCCCTTCCATGCTGCGGAGCGAAGTCAGGGATACTA GGGAAGAATCATAGCTTCCTATGACCCGGATAACAAGGAGGAACGCTCTATCGCGATTTA	540 435
NM_001009781.1	GGGAAGAATCATAGCTTCCTATGACCCAGATAACAAGGTGGAACGCTCCATTGCCATTTA ** * **** ***** ***** * * * * * * * *	494
NM_001309975.1 NM_000492.4	TTTGGCCCTGGGGCTCGGCCTCCTGTTCACCGCTCGCTTCATCCTGCTGCAGCCCGCAAT TCTAGGCATAGGCTTATGCCTTCTCTTTATTGTGAGGACACTGCTCCTACACCCAGCCAT	600 495
NM_001009781.1	CTTAGGCATAGGCTTATGCCTTCTTTATTGTGAGGACACTGCTCCTACACCCAGCCAT * * * * * * * * * * * * * * * * * * *	554
NM_001309975.1 NM_000492.4	CTATGGCCTGCATCACCTTGGCATGCAGATTCGCATTGCTCTTTTCAGCCTCATATACAA TTTTGGCCTTCATCACATTGGAATGCAGATGAGAATAGCTATGTTTAGTTTTGATTTATAA	660 555
NM_001009781.1	TTTTGGTCTCCATCACATTGGAATGCAGATGAGAATAGCTATGTTTAGTTTGATTTATAA * *** ** ****** **** ****** * ** ** * *	614
NM_001309975.1 NM 000492.4	AAAGACACTTAAGTTGTCCAGTAAGGTTTTGGACAAGATCAGCACCGGGCAACTCGTCAG GAAGACTTTAAAGCTGTCAAGCCGTGTTCTAGATAAAATAAGTATTGGACAACTTGTTAG	720 615
NM_001009781.1	AAAGACTTTAAAGCTGTCAAGCCGTGTTCTAGATAAAATAAGTATTGGACAACTTGTTAG ***** * *** * ** ** ** ** ** ** ** **	674
NM_001309975.1 NM 000492.4	TCTGATGTCTGCCCACCTCAACAAGCTGGATGAGAGCCTGGGTCTAGCGCACTTTGTGTG TCTCCTTTCCAACAACCTGAACAAATTTGATGAAGGACTTGCATTGCACACATTTCGTGTG	780 675
NM_001009781.1	TCTCCTTTCCAACAACCTGAACAAATTTGATGAAGGACTTGCATTGGCACATTTCGTGTG TCTCCTTTCCAACAACCTGAACAAATTTGATGAAGGACTTGCACTGGCACATTTCGTGTG *** * * * * * **** * **** * * * * * *	734
NM_001309975.1	GATCACACCTCTGCAGTGTATATTGTGTACTGGTTTGATCTGGGAGCTGATTGAGGTGAA	840

NM_000492.4 NM_001009781.1	GATCGCTCCTTTGCAAGTGGCACTCCTCATGGGGCTAATCTGGGAGTTGTTACAGGCGTC GATTGCTCCTCTGCAAGTGACGCTGCTGATGGGGCTGCTCTGGGACTTGTTGCAGGCCTT *** * *** **** * * * * * * * * ****** *	735 794
NM_001309975.1 NM_000492.4 NM_001009781.1	CGGCTTCTGTGCCCTGGCATCTCTGACCCTTCTTGGCATTCTCCAAGCTTGGCTCTCCCT TGCCTTCTGTGGACTTGGTTTCCTGATAGTCCTTGCCCTTTTTCAGGCTGGGCTAGGGAG CACCTTCTGTGGGCTTGCTTTCCTCGTAGTCCTCGCCCTTCTTCAAGCCGGGTTAGGGAA ******* ** * * * * * * * * * * * * *	900 795 854
NM_001309975.1 NM_000492.4 NM_001009781.1	GAAGATGGGCCCTCCCCGGGCACAGCGTGCTGGGCTGATAAACCGACGTCTGGCTCTTAC AATGATGATGAAGTACAGAGATCAGAGAGCTGGGAAGATCAGTGAAAGACTTGTGATTAC AATGATGATGAAGTACAGAGATCAGAGAGCTGGAAAGATCAATGAAAGACTGGTGATAAC * ****	960 855 914
NM_001309975.1 NM_000492.4 NM_001009781.1	TTCTGAGATTGTGGAGAACATTCACTCCGTGAAGGCGTATGGCTGGGAGGAAGTGATGGA CTCAGAAATGATTGAAAATATCCAATCTGTTAAGGCATACTGCTGGGAAGAAGCAATGGA GTCAGAAATGATTGAAAATATCCAATCAGTTAAGGCATACTGCTGGGAAGAAGCAATGGA ** ** ** * * ** ** ** ** ** ** ** ***	1020 915 974
NM_001309975.1 NM_000492.4 NM_001009781.1	AACTATTATCAAAAACATTAGACAGGATGAAATGACTCTCACCAGGAAGATCGGCTCTCT AAAAATGATTGAAAACTTAAGACAAACAGAACTGAAACTGACTCGGAAGGCAGCCTATGT AAAAATCATTGAAAACCTAAGACAAACAGAACTGAAACTTACCCGGAAGGCAGCCTATGT ** ** ** ***** ***** ***** ***** ***** ****	1080 975 1034
NM_001309975.1 NM_000492.4 NM_001009781.1	GCGGTATTTCTACAGTGCCTCATACTTTTTCTCCGCCATACTGGTTATTGTATCCGCCAT GAGATACTTCAATAGCTCAGCCTTCTTCTTCTCAGGGTTCTTTGTGGTGTTTTTTATCTGT GAGATACCTCAATAGCTCAGCCTTCTTCTTCTCAGGGTTCTTTGTGGTATTTTTATCTGT * * ** * * * * * * * * * * * * * * * *	1140 1035 1094
NM_001309975.1 NM_000492.4 NM_001009781.1	TGTGCCTCATGCACTCAGTAACGGCATTATATTGCGGCGAATCTTCACCACGGCGTCATA GCTTCCCTATGCACTAATCAAAGGAATCATCCTCCGGAAAATATTCACCACCATCTCATT GCTTCCTTATGCACTGCTCAAAGGAATCATCCTTCGAAAAATATTCACAACCATCTCATT * ** ****** ** ** ** ** ******* *******	1200 1095 1154
NM_001309975.1 NM_000492.4 NM_001009781.1	CTGCGTAGTGTTACGTATGACGCTCACCCGCCAGCTGCCAGGCTCCATCCA	1260 1155 1214
NM_001309975.1 NM_000492.4 NM_001009781.1	CGACACGTTGGCATTGGTCACAAAGATCGAGGATTTCCTGCTGAAGGAAG	1320 1215 1274
NM_001309975.1 NM_000492.4 NM_001009781.1	AATGGATTATAGCCTGACCACAGTTGGACTAGAGCTAATCAATGTTTCATCATCCTGGGA ATTGGAATATAACTTAACGACTACAGAAGTAGTGATGGAGAATGTAACAGCCTTCTGGGA ATTGGAATATAACTTAACAACTACAGATGTAGTGATGGAGAATGTAACAGCCTTCTGGGA * **** *** * * * * * * * * * * * * * *	1380 1275 1334
NM_001309975.1 NM_000492.4 NM_001009781.1	TGAGGGGATTGTTGAGCTCTTTGAGAAGATCAAGCGGGAAAACAAAGCCAATGGACAACT GGAGGGATTTGGGGAATTATTTGAGAAAGCAAAACAAAA	1440 1335 1394
NM_001309975.1 NM_000492.4 NM_001009781.1	TACCGGTGATGACGGACTGTTCTTCACTAACTTGTACGTCACCCCTGTCCTCAA TAATGGTGATGACAGCCTCTTCTTCAGTAATTTCTCACTTCTTGGTACTCCTGTCCTGAA TAATTGTGATACCAGCCTCTTCTTCAGTAACTTACTTCTTGGTACTCCTGTCCTG	1494 1395 1451
NM_001309975.1 NM_000492.4 NM_001009781.1	AAACATCAACCTACGCTTAGAGGAAGGCATGATGCTGGCAGTGGCTGGATCTACCGGATC AGATATTAATTTCAAGATAGAAAGAGGACAGTTGTTGGCGGTTGCTGGATCCACTGGAGC AGATATCAGTTTCAAGATAGAAAGAGGACAGTTGTTGGCAGTTGCTGGATCTACGGGAGC * * * * * * * * * * * * * * * * * * *	1554 1455 1511
NM_001309975.1 NM_000492.4 NM_001009781.1	AGGAAAGAGTTCCCTGCTTATGATGATCCTGGGGGAGTTGGTGCCATCAGAGGGTAAAAT AGGCAAGACTTCACTTC	1614 1515 1571

NM_001309975.1 NM_000492.4 NM_001009781.1	CAGACACAGTGGTCGGATTTCGTATTCACCACAAACTTCTTGGATAATGCCAGGGACCAT TAAGCACAGTGGAAGAATTTCATTCTGTTCTCAGTTTTCCTGGATTATGCCTGGCACCAT TAAGCACAGTGGAAGAATTTCATTCTGCTCTCAGTATTCCTGGATCATGCCTGGAACCAT * ****** * ***** * * * * * * * * * * *	1674 1575 1631
NM_001309975.1 NM_000492.4 NM_001009781.1	TCGCGACAACATCCTTTTCGGACTGACCTATGACGAATTTCGCTACACTTCCATTATTAG TAAAGAAAATATCATCTTTGGTGTTTCCTATGATGAATATAGATACAGAAGCGTCATCAA TAAAGATAACATCATCTTTGGTGTTTCCTATGATGAATATAGATATAGGAGTGTCATCAA * ** ** ** * * * * * * * * * * * * *	1734 1635 1691
NM_001309975.1 NM_000492.4 NM_001009781.1	GGCCTGCCAGCTGGAAGAGGATTTAGACCTGCTGCCTGAGAAGGACAAGACGGCGATTGC AGCATGCCAACTAGAAGAGGACATCTCCAAGTTTGCAGAGAAAGACAATATAGTTCTTGG AGCATGCCAACTAGAAGAGGACATCTCCAAGTTTTCAGAGAAAGACAACATAGTTCTTGG ** **** ** ****** * * * * * * * * * *	1794 1695 1751
NM_001309975.1	TGAAGGCGGAGTTACCCTCAGTGGGGGTCAAAGAGCAAGGATCTGCCTCGCCAGGGCCGT	1854
NM_000492.4 NM_001009781.1	AGAAGGTGGAATCACACTGAGTGGAGGTCAACGAGCAAGAATTTCTTTAGCAAGAGCAGT AGAAGGTGGAATCACATTGAGTGGAGGTCAGCGAGCAAGAATTTCTTTAGCAAGAGCAGT **** ** * * * * * **** **** *** * * *	1755 1811
NM_001309975.1	ATATAAGGATGCAGACCTGTACCTGCTCGATGCACCTTTCACCCACC	1914
NM_000492.4 NM_001009781.1	ATACAAAGATGCTGATTTGTATTTATTAGACTCTCCTTTTGGATACCTAGATGTTTTAAC ATACAAAGATGCTGATTTGTACCTGTTAGACTCTCCTTTTGGATATCTAGATGTTTTAAC *** ** ***** ** **** * * ** * ***** * *	1815 1871
NM_001309975.1	AGAGAAAGAGATCTTTGACAAATGTGTCTGTAAACTCATCGCCTCCAAGACTCGCGTTGT	1974
NM_000492.4 NM_001009781.1	AGAAAAAGAAATATTTGAAAGCTGTGTCTGTAAACTGATGGCTAACAAAACTAGGATTTT AGAGAAAGAAATATTTGAAAGCTGTGTCTGTAAATTGATGGCTAACAAAACTAGGATTTT *** **** ** **** * ******* * ** ** ** *	1875 1931
NM_001309975.1	GGTCACCAGCAAGTTGGAGCATCTCAAACGGGCGGACAGAATCCTTCTGTTGCACAACGG	2034
NM_000492.4 NM_001009781.1	GGTCACTTCTAAAATGGAACATTTAAAGAAAGCTGACAAAATATTAATTTTGCATGAAGG GGTCACTTCTAAAATGGAACACTTAAAGAAAGCTGACAAAATATTAATTTTACATGAAGG ***** ** ** *** ** ** ** ** ** ** ** **	1935 1991
NM_001309975.1	AGACTGCTACTTCTACGGCACCTTCTCAGAGCTGCAGGCCCAGCGGCCAGACTTTAGCTC	2094
NM_000492.4 NM_001009781.1	TAGCAGCTATTTTTATGGGACATTTTCAGAACTCCAAAATCTACAGCCAGACTTTAGCTC TAGCGTCTATTTCTATGGGACATTTTCTGAATTACAAAATCAGCGGCCTGACTTCAGCTC * *** ** ** ** ** ** ** ** * * * * * *	1995 2051
NM_001309975.1 NM 000492.4	CCTCCTGCTTGGGCTTGGATCTTATGACAACATCAGTGCAGAGCGCCGCAGCTCCATCCT AAAACTCATGGGATGTGATTCTTTCGACCAATTTAGTGCAGAAAGAA	2154 2055
NM_001009781.1	GAAGCTCATGGGATGTGATTCTTTCGACCAATTTAGTGCAGAAAGAA	2111
NM_001309975.1	CACAGAAACCCTTCGCAGAGTCTCAGTGGATGAAACGGCTGGTTTCCGAGGCCATGACCC	2214
NM_000492.4 NM_001009781.1	AACTGAGACCTTACACCGTTTCTCATTAGAAGGAGATGCTCCTGTCTCCTGGACAGAAAC AACCGAGACTTTACGGCGTTTCTCATTAGAAGGAGATACTTCTGTGTCCTGGAATGAAAC ** ** * * * * * * **** * * * * * * * *	2115 2171
NM_001309975.1	CAATCGGCAGTCCTTCCGCCATGAGCCATTTCATAGCCACGCTATGGGCGATGGCTACCC	2274
NM_000492.4 NM_001009781.1	AAAAAAACAATCTTTTAAACAGACTGGAGAGTTTGG AAAAAAGCCTTCTTTTAAACAGACTGGAGAGTTTGG ** * ** ** ** *	2151 2207
NM_001309975.1	TGAAAAACGCAAGCCGTCCCTCATCCTTAACCCTCTTGCAGCCGCCCGC	2334
NM_000492.4 NM_001009781.1	GGAAAAAAGGAAGAATTCTATTCTCAATCCAATCAACTCTATACGAAAATTTTCCAT TGAAAAAAGGAAGAACTCCATTCTCAATTCTATCAACTCTATAAGGAAATTTTCAGT ***** * *** * * * * * * * * * * * * *	2208 2264
NM_001309975.1	CATCGGTAACTCCCAGTCGACAAATAATTTCCCATCCTCAGCTATAGAAGACGGAGGACA	2394
NM_000492.4 NM_001009781.1	TGTGCAAAAGACTCCCTTACAAATGAATGGCATCGAAGAGGATTCTGA TGTACAAAAGACTTCATTACAAATGAATGGTATCGATGGAGCTTCTGA * ** * * * * * * * * * * * * * * * * *	2256 2312
NM_001309975.1	CGAACTTTCAGATAGAAGATTCTCTGTAGTACCAGGATGATCAGGAGGAGAGGGGGCT	2454
NM_000492.4 NM_001009781.1	TGAGCCTTTAGAGAGAGAGCTGTCCTTAGTACCAGATTCTGAGCAGGGAGAGGCGATACT TGAGCCTTTAGAGAGAGAGACTATCCTTAGTTCCCCATTCTGAACCTGGAGAGGGGATCCT ** * * * * * * * * * * * * * * * * * *	2316 2372

NM_001309975.1 NM_000492.4 NM_001009781.1	TCCTCGGAGCAACCTGTATCACCATGTGCTACAGCACCTCAACGGCAGGCGCCAGTCGGT GCCTCGCATCAGCGTGATCAGCACTGGCCCCACGCTTCAGGCACGAAGGAGGCAGTCTGT GCCTCGGAGCAATGCAGTCAACAGTGGCCCCACATTTCTGGGAGGGA	2514 2376 2432
NM_001309975.1 NM_000492.4 NM_001009781.1	CCTGGCGTTCATCACCAACGCTCAGGGCC-AGGAGCGCAGAGAGCAGATGCAGTC CCTGAACCTGATGACACACTCAGTTAACCAAGGTCAGAACATTCACCGAAAGACAAC TCTGAACCTTATGACCTGCTCCTCAGTGAACCAAGGTCAGAGCATTCATCGAAAGACAGC *** * * * * * * * * * * * * * * * * *	2568 2433 2492
NM_001309975.1 NM_000492.4 NM_001009781.1	TTCCTTCAGAAAAAAGCTGTCCATCACCCCGCAGTGTAACCTGGCATCCGAGCTGGACAT AGCATCCACACGAAAAGTGTCACTGGCCCCTCAGGCAAACTTGACTGAACTGGATAT GACATCCACACGAAAAATGTCACTGGCTCCTCAGGCAAGCTTAGCCGAAATAGATAT * * * * * * * * * * * * * * * * * * *	2628 2490 2549
NM_001309975.1 NM_000492.4 NM_001009781.1	CTACGCCCGACGCTTGTCCAAGGACAGTGTTTTTGACATCAGTGAGGAAGTGGATGAAGA ATATTCAAGAAGGTTATCTCAAGAAACTGGCTTGGAAATAAGTGAAGAAATTAACGAAGA ATATTCAAGACGGTTATCTCAAGATACTGGCTTGGAAATAAGTGAAGAAATTAATGAAGA ** * ** ** ** ** ** ** ** ** ** ** ** *	2688 2550 2609
NM_001309975.1 NM_000492.4 NM_001009781.1	AGACATGGAAGAATGCTTTGCAGATGACCGTGAGGACATCTTCGAAACTACCTCATGGAG AGACTTAAAGGAGTGCTTTTTTGATGATATGGAGAGCATACCAGCAGTGACTACATGGAA AGATTTAAGGGATTGCTTTTTTGATGATGTGGAGAACATACCAGCAGTGACTACCTGGAA *** * ** ***** *** ** ** * * * * * *	2748 2610 2669
NM_001309975.1 NM_000492.4 NM_001009781.1	TACTTATCTTCGATATGTTTCCACCAACAGAAGTTTGATCTATGTCTTGATTTTCATTTT CACATACCTTCGATATATTACTGTCCACAAGAGCTTAATTTTTGTGCTAATTTTGTGCTT TACATACCTTCGATATATTACTGTCCACAAGAGCTTAATGTTTGTGCTAATTTGGTGCTT ** ** ******* ** * * ** ** ** ** ** **	2808 2670 2729
NM_001309975.1 NM_000492.4 NM_001009781.1	GATTGTCTTTGCCATTGAGGTTGCCGGTTGTGTCATTGGGATTTTTCTCATTACTTCTGA AGTAATTTTTCTGGCAGAGGTGGCTGCTTCTTTGGTTGTGCTGGCTCCTTTGGAAACAC AGTTGTGTTTCTGGTTGAGGTGGCTGCTTCTTTGGTTGTTGTTGTGCCTGTTTCCGAAAAT * * *** * *** * * * * * * * * * * * *	2868 2730 2789
NM_001309975.1 NM_000492.4 NM_001009781.1	GATATGGAGGGATGGCGCCAACCCTAACTCCCCCAACTACATCGATGAGCAGCACCCGAA TCCTCTTCAAGACAAAGGGAATAG ACTTTTGCAAGACAAAGGAAATAG ** ** * * * * * * * * * *	2928 2754 2813
NM_001309975.1 NM_000492.4 NM_001009781.1	CGCCTCTTCGACTCCTGTCCACCTTGCAGTCATAGTCACACCAACCA	2988 2814 2873
NM_001309975.1 NM_000492.4 NM_001009781.1	CATCTACATATTCTTTGCTCACTCAGATAGCATACTGGCCCTTGGAGTCTTTAGGGGTCT GTTTTACATTTACGTGGGAGTAGCCGACACTTTGCTTGCT	3048 2874 2933
NM_001309975.1 NM_000492.4 NM_001009781.1	CCCTTTAGTCCACACGTTGCTCACTGTGTCTAAAAGACTTCACGAACAGATGCTTAGCTC ACCACTGGTGCATACTCTAATCACAGTGTCGAAAAATTTTACACCACAAAATGTTACATTC ACCACTGGTGCATACTCTAATCACAGTGTCAAAAACTTTACACCACAAAATGCTACAGTC ** * ** ** ** * * ** ** ** ** ** ** **	3108 2934 2993
NM_001309975.1 NM_000492.4 NM_001009781.1	TGTGCTACGGGCCCCTATGTCTGTTCTCAACACCATGAAAACAGGCCGGATAATGAACAG TGTTCTTCAAGCACCCTATGTCAACCCCTCAACACGTTGAAAGCAGGTGGGATTCTTAATAG TGTTCTTCAAGCCCCTATGTCAACCCTCAACACGTTGAAAACAGGTGGAATTCTTAATAG *** ** * ******** ****** **** *** ***	3168 2994 3053
NM_001309975.1 NM_000492.4 NM_001009781.1	ATTCACTAAAGACATGGCCGTCATTGATGACATGCTACCACTAGTGCTTTTTTGACCTCAT ATTCTCCAAAGATATAGCAATTTTGGATGACCTTCTGCCTCTTACCATATTTGACTTCAT ATTCTCCAAAGATATAGCAGTTTTGGATGATCTTCTGCCTCTTACCATATTTGACTTCAT **** * ***** * * * * ***** * * * ******	3228 3054 3113
NM_001309975.1 NM_000492.4 NM_001009781.1	ACAGTTAACTTTACTCGTCATCGGATGCATCTTCACGGTGTCCATCATGAGACCATACAT CCAGTTGTTATTAATTGTGATTGGAGCTATAGCAGTTGTCGCAGTTTTACAACCCTACAT TCAGTTGTTATTAATTGTGATTGGAGCTGTGGTGGTCGTCTCCGTTTTACAACCCTACAT	3288 3114 3173

NM_001309975.1 NM_000492.4 NM_001009781.1	CTTCATATCTGCAATCCCGCTGGCTGTGATCTTTGTGGTCATGAGGAAGTACTTCTTACG CTTTGTTGCAACAGTGCCAGTGATAGTGGCTTTTATTATGTTGAGAGCATATTTCCTCCA CTTCCTAGCTACAGTGCCAGTGATAGCGGCTTTTATTCTCTTGAGAGGCTACTTCCTCCA *** * * * * * * * * * * * * * * * * *	3348 3174 3233
NM_001309975.1 NM_000492.4 NM_001009781.1	AACTGGACAGCTCAAACAACTAGAGGCTGAAGCCCGTAGTCCCATCTTCTCTCACCT AACCTCACAGCAACTCAAACAACTGGAATCTGAAGGCAGGAGTCCAATTTTCACTCATCT CACCTCCCAGCAACTCAAGCAGCTGGAATCTGAAGGCAGGAGTCCAATTTTCACTCATCT ** **** **** ** ** ** ** ***** * * *****	3408 3234 3293
NM_001309975.1 NM_000492.4 NM_001009781.1	CATCATCTCGCTGAAGGGTTTATGGACAATCCGAGCCTTTGGACGTCAGACTTACTT	3468 3294 3353
NM_001309975.1 NM_000492.4 NM_001009781.1	GACGCTCTTCCACAAAGCTCTGAACACCCACACAGCCACCTGGTTCCACCACCTGTTCCACCACCTGTTCCACCAACTCTGTTCCACAAAGCTCTGAATTTACATACTGCCAACTGGTTCTTGTACCTGTCAACCAAC	3528 3354 3413
NM_001309975.1 NM_000492.4 NM_001009781.1	GCTGAGATGGTTCCTGTTCCGCTGCGACGTCATCTTTGTGCTGTTCTTCACCGCCGCTGC ACTGCGCTGGTTCCAAATGAGAATAGAAATGATTTTTGTCATCTTCATTGCTGTTAC ACTGCGCTGGTTCCAAATGAGAATAGAAATGATTTTTGTCATTTCTTCATTGCTGTTAC *** * ****** * * * * * * * * * * * * *	3588 3414 3473
NM_001309975.1 NM_000492.4 NM_001009781.1	CTTCATTGCTGTCGGAACCAACCAGGACAGACCAGGTGAGATCGGTATCATTGTGGCCCT CTTCATTTCCATTTTAACAACAGGAGAAGGAAGGAAGGAA	3648 3474 3533
NM_001309975.1 NM_000492.4 NM_001009781.1	AGCCATGCTGATCCTGGGCACTTTCCAATGGGCTATCATCACCAGTATCAATGTGGACGG AGCCATGAATATCATGAGTACATTGCAGTGGGCTGTAAACTCCAGCATAGATGTGGATAG AGCCATGAATATCATGGGTACATTGCAGTGGGCTGTAAACTCTAGCATAGATGTGGATAG ****** ** ** ** ** ** ** ** ** * * * *	3708 3534 3593
NM_001309975.1 NM_000492.4 NM_001009781.1	TCTGATGCGTTCGGTGGATCGGGTGTTCAAATTCATCGACTTGGCATCGGAAGAGACGCT CTTGATGCGATCTGTGAGCCGAGTCTTTAAGTTCATTGACATGCCAACAGAAGGTAA CTTGATGCGATCTGTGAGCCGAGTCTTTAAGTTTATTGATATGCCAACAGAAGATGGTAA ****** ** ** ** ** ** ** ** ** ** ** **	3768 3591 3653
NM_001309975.1 NM_000492.4 NM_001009781.1	CCAGGGAAAATCTGGAGGGAAAGGAGGCCCCGACCTGGT ACCTACCAAGTCAACCAAACCATACAAGAATGGCCAACTCTCGAAAGTTATGATTATTGA ACCTAACAATTCATTCAGACCATCCAAAGATAGTCAACCCTCAAAAGTTATGATCATCGA * ** ** * * * * * * * * * * * * * * *	3807 3651 3713
NM_001309975.1 NM_000492.4 NM_001009781.1	CATCAACAACCTCAGTACTCACAGCTACTGGCCTAACCGGGGCCAGCTGGAAGTGCAGGG GAATTCACACGTGAAGAAAGATGACATCTGGCCCTCAGGGGGCCAAATGACTGTCAAAGA GAATCAACATGTAAAGAAAGATGACATCTGGCCCTCAGGAGGCCAAATGACTGTCAAAGA * * * * * * * * * * * * * * * * * * *	3867 3711 3773
NM_001309975.1 NM_000492.4 NM_001009781.1	CCTGACTGTTAAATACACGGAGGCTGGGCGCGCCGTGCTCAACGACATCTCCTTCTCTGT TCTCACAGCAAAATACACAGAAGGTGGAAATGCCATATTAGAGAACATTTCCTTCTCAAT CCTCACAGCAAAGTACATAGACGGAGGGAATGCCATACTAGAGAACATATCCTTCTCAAT ** ** * ** **** ** * * * * * * * * * *	3927 3771 3833
NM_001309975.1 NM_000492.4 NM_001009781.1	GGATGGTGGGCAGAGCGTGGGCCTGCTGGGTCGAACAGGTTCTGGGAAGAGCACCCTGCT AAGTCCTGGCCAGAGGGTGGGCCTCTTGGGAAGAACTGGATCAGGGAAGAGTACTTTGTT AAGTCCCGGCCAGAGGGTGGGCCTCTTGGGAAGAACTGGATCAGGGAAGAGCACTTTGTT * ** **** ****** **** *** ** ** ** *****	3987 3831 3893
NM_001309975.1 NM_000492.4 NM_001009781.1	GTCCGCTCTGCTGGGCCTCAACTACACGGAAGGGGAAATGTTTATTGACGGGGTTTCTTC ATCAGCTTTTTTGAGACTACTGAACACTGAAGGAGAAATCCAGATCGATGGTGTGTCTTG ACTGGCTTTTTTTGAGACTGCTGAATACCAAAGGAGAAATCCAAATAGATGGTGTGTCTTG *** * ** ** ** ** ** ** *** ****	4047 3891 3953
NM_001309975.1 NM_000492.4	CAGCTCCATGCCGCTGCAAGCATGGAGGAAAGCCTTCGGAGTGGTGCCGCAGAAAGTCTT GGATTCAATAACTTTGCAACAGTGGAGGAAAGCCTTTGGAGTGATACCACAGAAAGTATT	4107 3951

NM_001009781.1	GGATTCAATTACTTTGCAACAATGGAGGAAGGCCTTTGGAGTCATACCACAGAAAGTATT ** ** * ***** ****** ***** * ****** **	4013
NM_001309975.1 NM_000492.4 NM_001009781.1	TATTCTGACTGGAACCTTCCGGATGAACCTGGACCCGTACGGGCGCTACAGTGACGATGA TATTTTTTCTGGAACATTTAGAAAAAACTTGGATCCCTATGAACAGTGGAGTGATCAAGA CATCTTTTCTGGAACATTTAGAAAAAACTTGGATCCCTATGAACAGTGGAGTGATCAAGA ** * ****** ** * ******* ** * ********	4167 4011 4073
NM_001309975.1 NM_000492.4 NM_001009781.1	GCTGTGGCGGGTGGCCGAGGAGGTTGGCTTGAAGTCAGTAATCGAGCAGTTCCCAGACAA AATATGGAAAGTTGCAGATGAGGTTGGGCTCAGATCTGTGATAGAACAGTTTCCTGGGAA AATATGGAAAGTTGCAGATGAGGTCGGACTCAGATCTGTGATAGAGCAGTTTCCTGGGAA * *** ** ** ** ** ** ** ** ** ** ** **	4227 4071 4133
NM_001309975.1 NM_000492.4 NM_001009781.1	GCTGGACTTTGAGCTTAAGGACGGAGGCAGTGTGCTGAGCAATGGGCACAAACAGCTGAT GCTTGACTTTGTCCTTGTGGATGGGGGCTGTGTCCTAAGCCATGGCCACAAGCAGTTGAT GCTTGATTTTGTCCTTGTGGATGGGGGTTGTTTCTAAGCCACGGCCACAAGCAGTTGAT *** ** *** *** *** ** ** *** *** *** *	4287 4131 4193
NM_001309975.1 NM_000492.4 NM_001009781.1	GTGTCTCGCCCGCTCCATCCTCAGCAAGGCCCGCATTCTGCTGCTGGACGAGCCGTCCTC GTGCTTGGCTAGATCTGTTCTCAGTAAGGCGAAGATCTTGCTGCTTGATGAACCCAGTGC GTGCTTGGCCAGATCTGTTCTCAGTAAAGCAAAGATCTTGCTGCTTGATGAACCCAGTGC *** * * * * * * * * * * * * * * * * *	4347 4191 4253
NM_001309975.1 NM_000492.4 NM_001009781.1	CTACCTGGACCCCATAACACTGCAGGTCCTGAGAAAGACGCTGAAGCAGTCGTTTTCTGG TCATTTGGATCCAGTAACATACCAAATAATTAGAAGAACTCTAAAACAAGCATTTGCTGA TCATTTGGATCCAATAACATACCAGATCATTCGAAGAACCCTAAAACAAGCATTTGCTGA * **** ** **** ** * * * * * * * * * *	4407 4251 4313
NM_001309975.1 NM_000492.4 NM_001009781.1	CTGCACCGTCATCCTATCAGAACACAAAGTGGAGCCGCTGCTGGAGTGCCAGTCATTCCT TTGCACAGTAATTCTCTGTGAACACAGGATAGAAGCAATGCTGGAATGCCAACAATTTT TTGCACAGTAATCCTCTCTGAACACAGGATAGAAGCAATGTTGGAATGTCAACGATTTTT ***** ** ** ** ** ** ** ** ** ** ** **	4467 4311 4373
NM_001309975.1 NM_000492.4 NM_001009781.1	GATGATAGAGAAGAGCTCTGTAAAAAGCTACGACTCCATTCAGAAGCTCATGAACGAGAT GGTCATAGAAGAAACAAAGTGCGGCAGTACGATTCCATCCA	4527 4371 4433
NM_001309975.1 NM_000492.4 NM_001009781.1	GAGCCACCTGAAGCAGGCCATCAGCCCCGCCGACCGGCTCCACCTCTTCCCCACACCCCA GAGCCTCTTCCGGCAAGCCATCAGCCCCTCCGACAGGGTGAAGCTCTTTCCCCACCGGAA GAGCCTCTTCCGGCAGGCCATCAGCCCCGCAGACCGGCTGAAGCTCTTGCCCCACCGGAA ***** * * *** ******** * *** * * * *****	4587 4431 4493
NM_001309975.1 NM_000492.4 NM_001009781.1	CCGCCTGAACTCCATCAAGAGGCCTCAGCCGCAGACCACCAAGATCTCCTCCCTGCCGGA CTCAAGCAAGTGCAAGTCTAAGCCCCAGATTGCTGCTCTGAAAGA CTCGAGCAGGCAGAGGTCTCGGGCCAACATCGCCGCTCTGAAGGA * * * * * * * * * * * * * * * * * * *	4647 4476 4538
NM_001309975.1 NM_000492.4 NM_001009781.1	AGAAGCCGAGGATGAAATCCAGGACACGCGGCTTTAAGCAGCCAGC	4707 4536 4598
NM_001309975.1 NM_000492.4 NM_001009781.1	CAAAACCAAGACTTTGATCAAGTGATCGGATGATAATAAGTCCTCGGGACATTTGCTCATGGAATTGGAGCTCGTGGGACAGTCACCTCATGGAATTGGAGCTCGTGGACGTCCACACGTGGGAGCTGAAGGAA	4753 4596 4626
NM_001309975.1 NM_000492.4 NM_001009781.1	TTGTCTGAGTTAGCGGTAAAGAGCAA GGAACAGTTACCTCTGCCTCAGAAAACAAGGATGAATTAAGTTTTTTTT	4779 4650 4680
NM_001309975.1 NM_000492.4 NM_001009781.1	AAGGATCCTTGGCATTCAGCTGCTGTAGAAGCGGATTTGTATTGAATCAA AAGAAACATTTGGTAAGGGGAATTGAGGACACTGATATGGGTCTTGATAAATGGCTTCCT GGAAAAATTGGGGTAAGAGGAATTAAGGACACTCCTGTGGGTCCGGATCCATGGCTTCCT * * * * * * * * * * * * * * * * * * *	4829 4710 4740
NM_001309975.1	CTTAAAAGAGAATTTAGAAGAGCAAAGGCAACAAAACAGACATTTATTTTTACATTTT	4887

NM_000492.4 NM_001009781.1	GGCAATAGTCAAATTGTGTGAAAGGTACTTCAAATCCTTGAAGATTTACCACTTGTGTTT GGCAGTGGTCAAATTGTGTGACAGGTACTTCAAATCCTTGAAGATTTACCACTTG * * * * * * * * * * * * * * * * *	4770 4795
NM_001309975.1 NM_000492.4 NM_001009781.1	TTAAGTAAAGCTACACATTTAAAT-AGTATATTGTTTAA-GAGATATAAAGACGTTTTTG TGCAAGCCAGATTTTCCTGAAAACCCTTGCCATGTGCTAGTAATTGGAAAGGCAGCTCTA	4945 4830 4795
NM_001309975.1 NM_000492.4 NM_001009781.1	TTTTACAGATGACACCCTGCAAAGGATTCTTCTACCCCTTTAAAAACGAGTTT AATGTCAATCAGCCTAGTTGATCAGCTTATTGTCTAGTGAAACTCGTTAATTTGTAGTGT	4998 4890 4795
NM_001309975.1 NM_000492.4 NM_001009781.1	TCCTGAG-AGAAGCGCAGTTCCTTCACTGTGAGAAATAAAAATAACCTGAACAC TGGAGAAGAACTGAAATCATACTTCTTAGGGTTATGATTAAGTAATGATAACTGGAAACT	5051 4950 4795
NM_001309975.1 NM_000492.4 NM_001009781.1	CCCGTCTAAAATATTAGCATCTCAAATT-TCTCAGTTATCTCAGAATCTCAGTTTTTAAA TCAGCGGTTTATATAAGCTTGTATTCCTTTTTCTCTCTCT	5110 5009 4795
NM_001309975.1 NM_000492.4 NM_001009781.1	CTCATTTTCAATTCAAAATGGACTGCTAAGCATTTCTAACTTCGTATCAATGC	5163 5061 4795
NM_001309975.1 NM_000492.4 NM_001009781.1	TCCATCTCCCCTCATGATCAAACCGACTGTGCCTGAACTTAA TTAGAA-TACCACAGGAACCACAAGACTGCACATCAAAATATGCCCCATTCAACATCTAG	5205 5120 4795
NM_001309975.1 NM_000492.4 NM_001009781.1	TGATTTTTATCTGGCAC TGAGCAGTCAGGAAAGAAGAACTTCCAGATCCTGGAAATCAGGGTTAGTATTGTCCAGGTC	5240 5180 4795
NM_001309975.1 NM_000492.4 NM_001009781.1	TGCATCCAGCCTAAATCGGATCTTTCAGACCTGCTCTGAAGACCTTGAGA TACCAAAAATCTCAATATTTCAGATAATCACAATACATCCCTTACCTGGGAAAGG	5290 5235 4795
NM_001309975.1 NM_000492.4 NM_001009781.1	GCAATAATATTCAAGGAGAGGCAGCCAGCATGGTACGAAACACCTGGAAGTTAGGC GCTGTTATAATCTTTCACAGGGG-ACAGGATGGTTCCCTTGATGAAGAAGTTGATATGCC	5346 5294 4795
NM_001309975.1 NM_000492.4 NM_001009781.1	TAGGAAGCCTTGCATGATGTCACGATCTGTTGTTGAGTAAGAGACAA TTTTCCCAACTCCAGAAAGTGACAAGCTCACAGACCTTTGAACTAGAGTTTAGCTGGAAA	5393 5354 4795
NM_001309975.1 NM_000492.4 NM_001009781.1	TCGATATGAGTAGATGTGCAGCAGGAAGGGCTCGTCTGTAATGAACCAATCAGAGTTGAGTATGTTAGTGCAAATTGTCACAGGACAGCCCTTCTTTCCACAGAAGCTCCAGGTAGAG	5451 5414 4795
NM_001309975.1 NM_000492.4 NM_001009781.1	TGAAAGTGAAGTGTGGGTGGAAATGCTTCATGTCATT GGTGTGTAAGTAGATAGGCCATGGGCACTGTGGGTAGACACACATGAAGTCCAAGCATTT	5488 5474 4795
NM_001309975.1 NM_000492.4 NM_001009781.1	CTTTGTAAGTAGCAGGTTTCAAACACACAACTAGATCATAGATTCTCCAACAGATGTATAGGTTGATGGTGGTATGTTTTCAGGCTAGATGTATGT	5539 5534 4795

NM_001309975.1 NM_000492.4 NM_001009781.1	TTCAACTATATTTGCCCAGAAAAACCAAGCGTGGTTCGGTCTTTTCTA CACTAAGAGAGAATGAGAGACACACTGAAGAAGCACCAATCATGAATTAGTTTTATATG		94
NM_001309975.1 NM_000492.4 NM_001009781.1	TTCTCCCCGTGTGTTGTCTGGAAAAACATGCATGACCTAGTGGAGATTTCTGTTTTAATTTTTGTGAAGCAAAATTTTTTCTCTAGGAAATATTTATT		54
NM_001309975.1 NM_000492.4 NM_001009781.1	GTTTCAAACATATAACAATGCTGTATTTTAAAAGAATGATTATGAACTTCTTTTATT		L4
NM_001309975.1 NM_000492.4 NM_001009781.1	ATTTTATTTTCTATCTTTGATTTCTTCACTAGCTTTACATTTCCAAAGTGCA AAAATAATTTTTATATTTGAAATATTGACTTTTTATGGCACTAGTATTTCTATGAAATA		74
NM_001309975.1 NM_000492.4 NM_001009781.1	TATGTTAAAACTGGGACAGGGGAGAACCTAGGGTGATATTAACCAGGGGCCATGAATCA	- 570 C 583 - 479	34
NM_001309975.1 NM_000492.4 NM_001009781.1	CTTTTGGTCTGGAGGGAAGCCTTGGGGCTGATGCAGTTGTTGCCCACAGCTGTATGATT	- 570 C 589 - 479	94
NM_001309975.1 NM_000492.4 NM_001009781.1	CCAGCCAGCACAGCCTCTTAGATGCAGTTCTGAAGAAGATGGTACCACCAGTCTGACTG	- 570 T 595 - 479	54
NM_001309975.1 NM_000492.4 NM_001009781.1	TTCCATCAAGGGTACACTGCCTTCTCAACTCCAAACTGACTCTTAAGAAGACTGCATTA	- 570 T 601 - 479	L4
NM_001309975.1 NM_000492.4 NM_001009781.1	ATTTATTACTGTAAGAAAATATCACTTGTCAATAAAATCCATACATTTGTGTGAAA	5708 6070 4795	