

Table S3. Genes with Grsf1 high-affinity consensus-binding sites

Transcript ID	Total matches	Locations	Gene ID	Sequence
ENSMUST0000000028.1	1	73	ENSMUSG0000000028.1	TGGAACACATTCAATAATGTGTGACTGAATTTACTTTATGTCTA AGAGTATATTTGTTTTCTAAGTATGCC AGGGT CAGATAATAGACCTT CCTTCCCGAAGTAAAGATGTCTGCCAAACATAGGTGGTTTTGGGTG ACTGGACGTTAGCGTCAACACCCGGCAACAAGGAACCAATCAGAAAG GAGGAAAGGCTAAGAATTATTTGGCTGTGGCGTGGACCAATCAGAA GAGCTGTGATTTGGCGGGAGTCTTGACGACCTCCGGGGCTGTCCGT GTCTCAGCGCCAGTTCTAGGTATCCGCCGCTGTGGCT
ENSMUST0000000033.1	2	87,502	ENSMUSG0000000033.1	AGCATTTCCTCATTCTCTAGAGGACTTCTCTGAAGCCACAGAAATT AGAGGTGATTTTTCCCGGGTGTGTAGGGCCACTGGCTT AGGGT GAACCCTAGTCTCCACTCCACCCCTCAAAGAAGTGAAGTGAATT CCCTAAAATCCATCTGTGTGTTTTTCATCTCCCATTTTTAAGCAATT AAAAATTAAGCTCCCTAAAATTCATGTTGGGAATTTCTTAAACCC AACAGCAACAACAACCACCTAATCTTACAAATTAGTCTAGGATT TTGTGGGTTCCCAAGCTTCTAACAAGATATTTGGGTTCCTCCG TTAGGCCTGGATCAAGATGCCCCCATTTTTGCATAGAATAATTTT CCTCATTTCCCAACTTGGATTCTAATTTTTCTGGAATCTCAAATTT AGTCATTCGCCACAGTTTTCCCATTTATGGAGTCGCCCTTCGAGTCC CCCTACTTTGGGCCGCTCATTTCCAGGACCCGCAATCAGAC AGGG TCTGACTTGGGATCCCCGAAATTTGATCATTGTTTCCGCTGGCCAC TTTCGGCAGCTTCCCGTCTGCGCATAACAGTGGTATCGCCCTCGT CACTTCTCCTACGGTGTCCAGCGGCAGCACAGATTTGGAAAAGT GTGTGTGCCCCAAACACGCACTGGACACTGCGCGCGCGCCAGGACG TGGGCAGTGTGCTCCCGTGTCCAGGAAAACGACTGGGCATTTGCC CCAGTTTCCCCCAAATTTGGGCATGTCCCGGGTCTTCCCAAGGGA CTGGGCGTTGCCCGGTTCACTGGGGACTGCCCTTGGGGTCTCGCT CACCTTCAGCAGCGTCCACTTCAGCAGCTCCCACTTCAATCCGCTCT CCCGCCCTTCTCCTCCGATCCTCCTGCGCCAGCGGACCCGACCTTC GGCCTTGTGGTACCA
ENSMUST00000006749.1	1	73	ENSMUSG0000000122.1	GGTCCCGGATGTTGCGGGCAGTATGAGGCGAGCGCAGGGGGACAGG GACCAGCAGCTGTGCGCCGCTTCTC AGGGT GAAGAAAACCAGAA ACCTTTGCCCCCTGACTTTGGAGACTCAGTTTAACTTCAAACGTG CG
ENSMUST00000000284.1	1	6	ENSMUSG00000000275.1	GCGGT AGGGT GCGCAGCTGTCCCTGCGCGTCACGTGCGGTGAGCCC ACGAGCGCG
ENSMUST00000000394.1	1	23	ENSMUSG00000000384.1	CGTAGGCTGATGGAGGTCAGTG AGGGT GATCGCCGCCGAGTCTGG CGTCTGGAGAGACCGGGTTTCTGAACGGAACAAGACTGGCAGACT TGCCGAAAGAAACGTCATGTGGTTATGTAGCGTGTCTCGAAAAAG GACTTCGGAGTCACCTACTAGGAGTCTTCCCTCCCTCCCTCCCTCT TCCCTGCGCCAGCATC
ENSMUST00000000642.1	1	234	ENSMUSG00000000628.1	GCCACATTGTTGCACCAACTCCAGTGTGGAGTCTCAGGACACCAC AGGCTACCCGGAGTTGTTCTGCTTTGGAGATCCGAGGGCAGGAGCA TCACGCCAGTGACTCTGATAGGTGCGATCGCCGATTTGGAACAGAA CTGTCAATTTTTTCCGAAGTTGAGCCTTAGTGACCAGTGAGTGAA GTTAGCGACGGGACGCTAAGCAGCTAGACCCGTCGGCAGGAGTGAG ACT AGGGT ACCTTCTAGTAGTTGTGATTAATAAAATTAATAAA GAAAAAATAAACCTGTTTCTGAAACTTGGAGCCCTCAGCTGGT GAGCCATCGTGGTTAAGCTTCTTTGTGTGGCTCCTGGAGTCTTCGA TCCCAGCCGACACCCGGGCTGGTTTCAAAGCGGTCGGACAGCGC TGCCGTCTCCATCGGTAGCGCTCGAGCCTCGGTTTCTCTATTTGGC CCCCTGCGCCGCAACAAG
ENSMUST000000062678.1	1	26	ENSMUSG00000000951.1	GCGGAAGCGTCGAGTGCCTGGTCTC AGGGT TCTCCTCACCATGGTT CCCGGAGTGCCTCCCGCCGGAGATCCAGCTGGCGCAGCGCTGG CGGCAATGAACAGGTGA
ENSMUST000000041898.1	1	29	ENSMUSG00000000951.1	CCAGCGGAAGCGTCGAGTGCCTGGTCTC AGGGT TCTCCTCACC
ENSMUST00000000977.1	1	29	ENSMUSG00000000951.1	CCAGCGGAAGCGTCGAGTGCCTGGTCTC AGGGT TCTCCTCACC
ENSMUST00000000984.1	2	43,187	ENSMUSG00000000958.1	AGCAAATCAGCAAAAAGAGGATCTFAGCGAATCAGTTGGTT AGGG TTGGTTTCTCATAACAGGCATCTCAGCGCAGGGACATTTGAAACTGA AATCAGAGGGGAGAGACTTTGGGGTCAGGGGGAGGCAGAAAAAAG TTTTACCAAACCTGCCTCATTCATGCCTGTCTGTGCATAACAGGT TGAGGGTTCAGCTGTCTGATAAATAAGAGGGCAATGCGAGCAAGCT GGTGAAGGTCTTCTTCTCTCTCGCC
ENSMUST000000052870.1	1	352	ENSMUSG00000001034.1	GAGCGAGCCCGGGGAACACTCATCACTGGGTTGGCAAGACTCAGG AATCCCAAATTCCTCGAGGAGCGTGGCGCGGGGTGCCGGCCGCTC GGTGAGTGCATCCCGGAGTCCAGCGCCCGCCCTCCCTTTCT TCCGGGGCCGCGCCGCCCCCTGGATCCTGGGCCGTGGGGTTCT

ENSMUST0000001063.1	1	184	ENSMUSG0000001036.1	<p>CTGTGCCAGCGGTCCCTCTCGCCTGCTGCACAGGTCCTGCCTCCA AACCCACAGAGGCGGAACCTGAGAGGCCCTCAGGACGATCTTCTCAT CAGCGCTTCGTACAGACCATGGCCGAACCGTGAAGGAGGAGGACG GCGAAGATGGCTCTGGGGAGCCCCCTGGGAGGGTGAAAGCAGAAC CGTTCACACCGCTGCCTCTGTGGTGGCCAAGAACCCTGGCCCTGCTC AAAGCCCGCTCCTTCGACGTGACCTTTGACGTGGGGGACGAGTACG AGATCATCGAGACCATAGGAATGGGGCTACGGGGTGGTGTCTTC GGCGGCCCGCCCTCACGGGTGAGCTGGCTTCCTGA</p> <p>AAACGCTGCACAGGCTCGGGTGCCTCCCGCTTCTCCCGCTCGCCG GCGGCTGCAGCCTTGCACCTCGCGCTGGCCAGGAACGGAGGGCATGG CTGCCAGCTTCTGGGACCTGAGGCTTTGGAGGAGGAAATGACTGTG GAGGGCCATTTGTTCATCTGCATTTCTGCACGGAACCTCCTA GGGTGACAGGCTTAGGGGACAGGAAAGTTCTCTTGAAGGGCTTCAC ATTTGTAACAAGAAGATAAAAAATGACAACTTCATCTATCAGACGG CAGATGAAAAACAATTGTGAACAATTACTCAGAGGCTGAAATCAAAG TCCGGGAGGCCACCTCCAATGACCCGTGGGGCCATCCAGCTCTCT GATGACTGAGATTGCTGACCTGACCTACAATGTGGTAGCGTTCTCG GAGATCATGAGCATGGTTTGAAGCGACTTAATGACCATGGCAAGA ACTGGCGGCATGTATAC</p>
ENSMUST0000001155.1	4	61,782,811, 1206	ENSMUSG0000001127.1	<p>ACAAGCCCAAGATGGAGCGGTGGTGGTGGTAGCGGTGTGACAGGT GAGGGCAGGCCCGGTAGGGTTCGGGTTTTGGAGCGGCTCGCGGACC CGGGTATGAAGTCCAGACCGAAAGCTCAGCTCCAAGATGCTTCCGT CTGAATCTCAGCGTCTCCTCCGCCCGGAACCAAAGGAGTGGTTTGAC CAGGGCGAGACCGTCTGTCATCGACCCGTGGGAGTGGATGGAGGAGTG GGCCTGCAGGCTGCAGTGGTGGTTFCGCTGCTGCGCGTGGCAGTG CACCTGCACAGAGCTTGAAGCCCTTGGGGAGGGCGGGACGGAGCCA AATTGGGTCTGGGGTCTGGGGCTTGGGTGCGAAATCCAAGGTGAA TTCTTAAACCCCTTAAAAATGTCTAATGACGTTTCTCACGACGCTCC AGGAGATGCAGCTCTCTCCATGGTTCCTTATTGCCCTTCATATTC TACGCCACCTAGGAAGATGTCTGACGATTACCTCATTTATCCCTAGT TCACCCTAATCCCTTTCATGATTTCACAGTGCCTTTACACCAGTA ATCTGTTTGTGACCCCACTAGTATTACAGGTACAGTTTTTGGAAAC CCTTCCCAACCTCACCTCCATCTCTTCATCTGGATACCAATTGT CTTCCTTTGCCTTTCCTCTTGATAGTGTTTCTGATGAGCCATCAT TGCCACTGCATTTGATTTAGTGTGTAATGTGGTCTGTTATCCAGCT GTTTTTCACAGTCTGTAGTACTCTTATTACATCTCTCTTTAGTCT AGGGTATGGCGAACCTCTGTGGACTCTAGAGGGTCTGGTGACCTCT ATTAGCTACCTGACAGTACCTTTGATTCTACCATTAGCCTTATAGC TTATGCTCTGGAATACCCACAGTGCCTTTAAGGTCAATGGTACTG TCTTCATTTCCCTTCAATCTAAAAACAAGGTCTGATGATCCTCCATT TTCTGTCGCCCTGTCTGTGCTGATTACCCATTCTGAACTTAAG</p> <p>CGCGCGCTGAGGGACGCGAGGGTGAGCGCACCTGGCCTCGGCGAC CGCGGGAGCGCGCGCGCTGTCCGCCCGGAGGATTGGGGTTCGCT GCCCCGCGCCGTCCCAACGCGTCCCGGAGTGCCGAGAAGCTGGGAG CGGCTTGGGC</p> <p>GAACACAGTGTAGCCAGCCGGTCCGGTACAATGTAGCGGCAGCCA GGTGACGGGAGTCTGGGAAGTACAGTGACAAGAGTGTAGCCCTCC TCATGCAGGGTGAAAGGGGAACATCTCAAGTAAGGGGACAGGAAGG AAGATCCAGTTTCCAGAGGTGGGATGCT</p> <p>CACTCATTTCACTAGGGTCCCCGGGAAGGGCTTGTGAGTATGGGTG GGTCCAAGGTAGGACAGTCAAAATGTTTCAGCATGGTAGGAAACAAC TCCGTGCCCGATAGTACAGCGTGTGTCGGGGGCAGGAAGGCAGACGT GAAGCCTAGACAGGTGTGGACACGCACATGTGTGTTCTGGCCACG TGTTTGTGGAAATTTGAGGCAAAATTTTGTGTTTGGTTCCTGGGGTA AAGTTTCCATTCACATTTTCCCTACTGTTAATTTTTTTTTTAA TTTTAAATTAACAAACTCTGACTAGAAAAAGCGCAATACCTTTGAA AGGACTGGGGCAGGAGTGGACAGCAG</p> <p>CACTCATTTCACTAGGGTCCCCGGGAAGGGCTTGTGAGTATGGGTG GGTCCAAGGTAGGACAGTCAAAATGTTTCAGCATGGTAGGAAACAAC TCCGTGCCCGATAGTACAGCGTGTGTCGGGGGCAGGAAGGCAGACGT GAAGCCTAGACAGGTGTGGACACGCACATGTGTGTTCTGGCCACG TGTTTGTGGAAATTTGAGGCAAAATTTTGTGTTTGGTTCCTGGGGTA AAGTTTCCATTCACATTTTCCCTACTGTTAATTTTTTTTTTAA TTTTAAATTAACAAACTCTGACTAGAAAAAGCGCAATACCTTTGAA AGGACTGGGGCAGGAGTGGACAGCAG</p>
ENSMUST0000001319.1	1	19	ENSMUSG0000001300.1	<p>CGCGCGCTGAGGGACGCGAGGGTGAGCGCACCTGGCCTCGGCGAC CGCGGGAGCGCGCGCGCTGTCCGCCCGGAGGATTGGGGTTCGCT GCCCCGCGCCGTCCCAACGCGTCCCGGAGTGCCGAGAAGCTGGGAG CGGCTTGGGC</p>
ENSMUST0000001522.1	1	98	ENSMUSG0000001482.1	<p>GAACACAGTGTAGCCAGCCGGTCCGGTACAATGTAGCGGCAGCCA GGTGACGGGAGTCTGGGAAGTACAGTGACAAGAGTGTAGCCCTCC TCATGCAGGGTGAAAGGGGAACATCTCAAGTAAGGGGACAGGAAGG AAGATCCAGTTTCCAGAGGTGGGATGCT</p>
ENSMUST00000057054.1	1	14	ENSMUSG0000001493.1	<p>CACTCATTTCACTAGGGTCCCCGGGAAGGGCTTGTGAGTATGGGTG GGTCCAAGGTAGGACAGTCAAAATGTTTCAGCATGGTAGGAAACAAC TCCGTGCCCGATAGTACAGCGTGTGTCGGGGGCAGGAAGGCAGACGT GAAGCCTAGACAGGTGTGGACACGCACATGTGTGTTCTGGCCACG TGTTTGTGGAAATTTGAGGCAAAATTTTGTGTTTGGTTCCTGGGGTA AAGTTTCCATTCACATTTTCCCTACTGTTAATTTTTTTTTTAA TTTTAAATTAACAAACTCTGACTAGAAAAAGCGCAATACCTTTGAA AGGACTGGGGCAGGAGTGGACAGCAG</p>
ENSMUST0000001533.1	1	14	ENSMUSG0000001493.1	<p>CACTCATTTCACTAGGGTCCCCGGGAAGGGCTTGTGAGTATGGGTG GGTCCAAGGTAGGACAGTCAAAATGTTTCAGCATGGTAGGAAACAAC TCCGTGCCCGATAGTACAGCGTGTGTCGGGGGCAGGAAGGCAGACGT GAAGCCTAGACAGGTGTGGACACGCACATGTGTGTTCTGGCCACG TGTTTGTGGAAATTTGAGGCAAAATTTTGTGTTTGGTTCCTGGGGTA AAGTTTCCATTCACATTTTCCCTACTGTTAATTTTTTTTTTAA TTTTAAATTAACAAACTCTGACTAGAAAAAGCGCAATACCTTTGAA AGGACTGGGGCAGGAGTGGACAGCAG</p>
ENSMUST0000001558.1	1	0	ENSMUSG0000001517.1	<p>AGGGTCAAAGCTTGCATTTCTGATGGAGAGCGAAAGCACAGCCTC ACG</p>
ENSMUST0000002070.1	1	24	ENSMUSG0000002017.1	<p>TCCGGGAAGGAGCGCATGCGCTAGGGTACGCGTTGCCGGCGAGAG GGCAGCCTGACGACTCGGAAATTTGAATACCACAGTAGCATGGAGT GTGACCTC</p>

ENSMUST00000056241.1	1	39	ENSMUSG0000002059.1	CGCTCGCAGAGTGGGACGGCGGGCCTCGCTGCGCGTCT AGGGT TGT CGCCCCCTCCTCTCACCAGTTCGAGGGCGTCGGCAGTTGCTGCCCT GCGCAAAGTGACCCCGTGTGGCGGGGGCGCCCCGAGCCCCCAGG CCTCTCTGTATAGGTAGGGCCATCCCAGCCCCGAGTTGTCGTGGG TCTCCGCGGGCCCCGGTTATCGTAGGGCTATCCGACCCCGTGTCA TTGTAGGATCCGCGCGGGCCCCGGCTCCCCGGGACGCGACTCCCC CCCACAAC TAGCGGCGGGGATCTCCCCGCCCCGAGTGGTCTTC GGGACGCCCCGGGCTCGGGT GATTGTGGCTCTCCAGACCCGGG TGATTGTCTCGTCCCCTTGGCCCCGGTGGT CGTAGCGTCTCCAAG GCCGAGGGCTCCACAGGCTCTCCGTGGCCCCGGT GATTGTGGT ACCCCGGGCCCGGATAAATCGTGGGTCTCCACGGGTCCCGGCCG CCGGGGCGGATCAGGCTCTGCGCTTCCCGGGAGCCCCGAAGG CCGCAGACAAG
ENSMUST0000002198.1	1	1180	ENSMUSG0000002129.1	CTCTGGGTCGCCCATCTTGTCTATTGAGTTGGATACTTCGTGTGG TGATCTTTAATCTTGTCTCGTCGCACCGGTTGTCCGCCACCGAGGTGGA CTGGCAGCCCTGAGCGTCGCAGTCATGCAGCCGGACCCGTGCAGG CGGTACCCCCCGCCGCCAGTAGCCACTGAGTCCAAACAGCCAAT TGAAGAAGAAGCATCGTCAAAGGAGGATCCACCCCTTCCAAGCCA GTGGTCGGCATTATTTACCTCCCCGGAGGTCAGGAACATCGTCG ACAAGACTGCCAGTTTGTGGCCAGAAATGGCC TGAATTTGAAGC TAGGATTCGACAGAATGAGATCAACAACCCCAAGTCAATTTCTTA AATCCCAATGACCCTTACCATGCCTACTACCGCCACAAGT CAGCG AGTTCAAGGAGGGGAAGGCTCAGAGCCCTCAGCTGCCATCCCCAA GGTTATGCAGCAGCAGCAGCAAGCTACGCAACAGCAGCTGCCCCAG AAGGTCCAAGCCAGGTGATCCAAGAGACCATAGTACCGAAGGAGC CCCCCTCTGAGTTT GAGTTCATCGCTGATCCCCCTCCATCTCAGC CTTCGACCTGGATGTAGTGAAGCTGACAGCTCAGTTTGTGGCCAGG AATGGGCGTCAGTTTCTGACCCAGCTGATGCAGAAAGAGCAGCGCA ACTACCAAGTTT GACTTCTCCGACCCAGCACAGCCTCTTCACTA CTTCAACAAGCTGGTGGAGCAGTATACCAAGATCTTGATTCACCC AAAGCTTATTTTCAAAGCTCAAGAAAGAGGCTGAAAATCCTCGAG AAGTTTGGACCAGTTTGT TACCGAGTAGAATGGGCCAAATTTCA GGAACGTGAGAGGAAGAAGGAAGAAGAGGAGAAGAGAGAGCGGA GTAGCTTATGCTCAGATTGACTGGCATGATTTTGTGGTGGTGGAGA CAGTGGATTTTCAACCCAATGAGCAAGGAAACTTTCACCCCCAAC
ENSMUST0000002378.1	1	367	ENSMUSG0000002307.1	AGGGGAATTTGAACCCCATGGCCACCGATGACAGCATCATTTGTAC TTGATGATGACGATGAAGATGAAGCTGCTGCTCAACCAGGGCCCTC CAACCTACCCCCAATCTGCCTCAACAGGACCTGGTCTTGCCCTG TCTCAACAGGCCACTGGTCTCTCCGAGCCCGTGTGGATGGAGGGA GCAGTAACTCCGGTAGTAGGAAGTGCTACAAGTTGGATAATGAGAA GCTCTTTGAAGAGTTCTTGAAGCTGTGTAAGACGGAGACATCAGAC CACCTGAGGTGGTTCCGTCTCCACAAA ACTGCAGCAGCGTGCCC AGTCTGTGTTCTTGCCCTCTGCAGAGTTCTGCAACATCTCTC AG GGT CTCGGCTCGGCTCGGAAGCGGGCCGCTAAGATCTATGTGTAC ATTAACGAGCTCTGCACTGTTCTTAAAGCTCAC TCCATCAAGAAGA AGTTGAAC TAGCTCCTGCAGCCTCAACGACCAGT GAGGCGTCCGGG CCCTAACCCCTCCACAGAGCCCTCTGACCTTACAACAC TGAA AACACTGCCTCTGAGGCCTCAAGGACTCGCGGTTCCCGGAGGCAGA TCCAGCCCTGGAGCAGCTGCTGGCACTGTACGTAGCCGAGATTCCG G
ENSMUST0000002452.1	1	46	ENSMUSG0000002379.1	GAGAGTTGACCTAGCCGGCTACCCTTGAGTTCCGCCAGACGCTTT A GGGT CGGCCGAGCAAGCCAGCTAGGT
ENSMUST0000002532.1	1	101	ENSMUSG0000002458.1	CTGCGCACTGCGCCCCCTCCCCGGCGACCAGCAGGACTTCGGAGCG CGCGGGCGGGCTGACTCGGGGACCGCGGATCTGCCAGGATCCTAT GCTGCAGT GAGGGT CCAGAGCTGCGCACCAAGAAATCTGGGCAACCC CCTCCACTCACCC
ENSMUST0000002599.1	1	91	ENSMUSG0000002524.1	GCGACGGCGACTATAGCTCTCGTAAGT GAGTCCCTCGCGGCCAGGG GGCGGCCCTCAGCTCGGAGGACAGGTCAATGGCCAACAAGGAG GAG GGT CGGAGCCAGCAGCAGCGGCTGCAGCGCGGGCGGGCGG AGTGGT GGCAGCAGGAGACAAATGGAAACCTCCACAGGGCACAGAATCCATC AAG
ENSMUST0000003183.1	1	54	ENSMUSG0000003099.1	TCACTCGGCACTCCTTCGCGACGGTTCGGCC TGGTCCCGGAGCGG CCGTTGCC AGGGT GGGGT CGCTTTGCGGC
ENSMUST0000003356.1	1	53	ENSMUSG0000003269.1	TGGCTTCTTCTTCC TGCGGACCTAGGCTTAAACCCGCTCCTTTCCGACC CTGACCC AGGGT CCTGCTGCGCTAGCTTGTCTTCTACTGTGTACCC AGATCCAGGCCAGTTGTCCGCTATGGCGGAACCAGAACCTCGTTT CTTTTCCAAGAAATGCACCAAGATTCAGGACCCCAACTTTCCCA TCATGATGGAGCCAGAATCTGGCCCCCTTACGAGAAATGCACCCCA GGTT TCATGCTAGGATCCCTACAGTGGTGGATCCAGAAGCCAGATC CTGGTGTCTTTCCAAGATTTGCATCCGAGATCTAGGACCCCAAAGC

ENSMUST0000003435.1	1	229	ENSMUSG0000003345.1	CCTTTTGATGATGAAGCCATGAGTCCAAGGCCCTGTGTCCTTCCAA GTAATGTTTCCAATATCCAAGCATCCTGTCTACTGTGTTGGGACC AAGGAGCCAGGGCTTCCAATAAAGCATCTAAAATTCAGACTCAGG AGTTTCTAATGTGGTGATGGGTCCAGAATCCAGGGACTGGTTGC CTTTCAAGTAATTGGCCCAGAAATTCATCCTCAGACCTATGAGCTG GGATTCTTAGGCATCTTGACACAAACTCAGGACTCAGTTTACTC CCTCTCCTCAGACTTCTGGTACCATTCTCTTCTGGACAGGAATC CAGGCCCCAGCCAAATCCTTCTCAGGATGCAGGATCCTGACC CCCAGAACTAATTTCTTGACCCCTGGTCCCA
ENSMUST00000019676.1	1	5	ENSMUSG0000003345.1	CAGCTGGGCACCACAAGATTTAAGGCAGTGGGACCTGTGGCAGAA TGCTCTCTCTCTGCAAGCAACCTGGAAGCCACCAAGATGAGCAC CCCAGTCCGGCCTGTGAGCGTACCCGGGTGTCAATAGCCGGGACC GAGGGGCCACCCGGGAGCAATGGTGTACTAGGCCGGGCGGAGTCA GGTTTCGCACTCGGATCTCACGGCAGAGTCACCGTGGAGAGGCC AG GGT ACCACAAACTT
ENSMUST0000003777.1	1	93	ENSMUSG0000003680.1	GGCC AGGGT ACCACAAACTT GAGAGGGAATTACCCTGAGCCGGTGAGTGAAGCAGCCGTCCTCC CCAGCAGGCGCCCTCCAACCCCGAGTCTGCAGCAAGTGTAAATG AGGGT ATAGTATGTGCTGACCCCTGCTGGAGCCCTGGGATGCAAAGT TCCACCGGGGCC
ENSMUST0000003858.1	1	259	ENSMUSG0000003760.1	TCGCGGGCGGTGGGGGGCGGGTATGGCGCGCTGCGAAGCGCAGGG CGGCTGGCACAAACGGCGGCCGAGGCCGGAGAAAAAGCTCGCC ACCCCATCAGTCCCTTCTCAAGCTCCTAGAGACAACCTGGACTT GGGGACCAGCGAGCACCCCCAGAGCACTAGAGGAGCCCTGTGCTC TGCCCTGCCCTCACCTGCCCCACACGAGGCCCAGCGGCCCGGGCT GCATCAAGTGGAGGAGGAGGAGCGGAG AGGGT GGCACCATGGGC CCGGCCGTGCCCTCCATGCCCGGGGATGAAGACACTGTGCC
ENSMUST00000061869.1	2	395,420	ENSMUSG0000003873.1	ATGGACGGGTCCGGGGAGCAGCTTGGGAGCGCGGTGAGGCGGGAG GCGGAGGACTAGGCCCGTCCAAGAACCCTAGGACCCCTCCGGCTT TGGGCTCGGGCGGGAGCAGGCTGGGGCGCGGGATCCATTTCCACC GGCTCATCCGCACCCCGAGAGCGGACATCCGCTGCGCGCCCCCG GCAGGCCCGGGCTTGTGCTGGCGCCACTTCTGCTGGTGGCCTGG GATGGGACAGAAGGCCAGCGCCACTTCTCCACCCCCAGCTGGGG GTCTGTTTGCTTTTGGCATCTGCTCTCTGGGTTTGTGTGGAGCT GGGATGCAGGCCGGTCCCGCCCCCTGTCCATCAGAAGCAGTAGCC AGGCCTTCCATGCTACTTGTCACTACT AGGGT CCCCAGCTCTGTCT CCCC AGGGT TATGAGCCTACCTATCCATCCCCCTGA
ENSMUST0000004140.1	2	14,72	ENSMUSG0000004038.1	CTGCCCTCCGCTTT AGGGT CTGCTGCTCTGGTTACAGACCTAGGAA GGGGAGTGCCTAATTTGGGATTTGGTGC AGGGT TGGGAGGACCCGCT GTTTGTCTGCCACGTTTCTCTAGTAGTCTGTATAAAGTCACAA CTCCAAACACACAGGTCAGTCTCTGTAAGCCAGTTTGTAGAAGACC ACAGCACCAGCACC
ENSMUST0000004200.1	1	41	ENSMUSG0000004096.1	CTTGGGCTTGGCGCCCCCGCGCCGAGATTTCTGGGAGCTA AGGGT CGCATTTGGTTCATGAGTGAGTTTCCGAAGGTGCTGCGTAGGACCC CGCCAGAACTAAAAG
ENSMUST00000061351.1	1	303	ENSMUSG0000004099.1	ATGCGCGGGGAGCGGTTTGGCGCGGGCTGTGCTTCTGTCGCGCT GCCCTTAGCTGTTGGCGCCAAAATGGGTGGGGCCGGGTGCTGGC AAGCCATTGACTGGGAGCTTGGGAGCAAGGGGATCAGCCCTCT GAAATAGAACAAAGCTTGGGACACCCCTCAGGGGTTCCCTCTTTGG TCAGCCAGGCTCCTGGGTGTGCAGGAAGTGCCCTCTCCCGGCTG TGGACACCTGAAGCCCCACTCCGCTCCAGCCTCCACTTCCGGTG CCCTGCAGATCCCGCCGCGCCACCC AGGGT CCCTCCGCGGTT CCCTGGCCCTGGTTTCAAGAGGCCCTCCTTCCAGCCCCGCTGTCA AGTCTTAGGACCTTTTCTCTCTCATCCTGCCGGCCGGCCCTGGGC AGCTTGAAGCCCTCGTGGGATTTTGTTTTGTCTTCTATCTAACGTA AAGGAGCTCCTGCGATCCTGGAGCTATCAAAGAGACTGCTGCGGA AAGAGCTGGTGTGCAGAAATGGGCCCTCCACTTTGGCAGTGACATA ACTCTGTCCCGAGATCCCAAGAGCAATCGAGGAAACCTTTAACTCCA TTCAAAGTGTATCAGGGGAAGGAAAGATGAATGGTAGTGAGAT GTCTCGGCCCCCGCCCTATATTTTAGCCCTGTAA
ENSMUST0000004389.1	1	57	ENSMUSG0000004278.1	GTCCCGCTTCTTCTGCTCTCTGCGCTGCATCCGTGGGGGAGG TGGCTGGCTGC AGGGT TCTCCGGATCTCTCTGTGTTCCCACTACT CAAGCACCAGTGGCGTTCT
ENSMUST0000004569.1	1	251	ENSMUSG0000004455.1	ATCCGTGCGCCGCCCGAGGCTGGCTGAGGAGTCCGGCCATCTT GTCTCTCTGCTGGTTCCTAGTGGCGAGAGGAGGAGGAAGCCCGGAG CGGAGCGGGCGGCTGGGGGGGTGGACCCCGCGGCTGTGCTGT CCACCGCCCGCCGCCACCACCCTCGTGGGGCTCGTGGCGTGAG GAAGGAGGACGAGTGAACCCCGGGGCGAGCGGGCGGCGGCCG TGCTGCTGCTGCTGCTGCGGG AGGGT CGCGCGGGGACGGCG

ENSMUST00000004574.1	1	113	ENSMUSG00000004460.1	GAAGGGGCGCGCTACCTGTCTCCGCGGCCGGGCAAGAGAGAGACCC CGGCGTGAGGCGGCCTCCCTGGGCGCGAAGGGCTGGTCAGCCGACG CAGCGGCACCGGAGGCTGAG AGGGT AGGACCAGGGGACGCC
ENSMUST00000004750.1	1	64	ENSMUSG00000004631.1	GGCAGGCCAAGAATGCTATTATTCGGTGGTGGGAGCTGGGAGACC CTTGTGCTTGACCGGGA AGGGT CGGGGACACTCAAGATGAGCCC CGGACCCTGGCACATTCTTACTGACAGG
ENSMUST000000059625.1	1	7	ENSMUSG00000004947.1	ATACTCG AGGGT TCTTCCAGGCCGAGCCGGAGCTGAGCCCGGAGG TCGGCGGTCTCTCAACCTGTTCTTCTGCTTCCCTCAGACTCGGT ACCTCGGAATCGGTGTGGCTGAGTCAGCAAGGCCTCAGATTTGCCG GGTCTTGTGTGCTGTTCCCTATCAAGATGGGAGCTCAGACAAGTTA TTGCTTCTGAGGATCTGGTGTCTTCATCAAGAAGGGACAGTTTGGT GCCAGCTCTCAGTGAAGAGGAGGTCCCCCAGAGGTGCTGGGCAAT GAACCTGAACCTGCAACCCAGCGTGGTGTGAAGTCTTCAGAGAAAG CAGAAG
ENSMUST00000005072.1	1	79	ENSMUSG00000004947.1	ATGCGCAGCGCGGTGCTTGGAGGCTGCGACGCCGAGTTTCACTCCG GCTGCTCCGGCTCGGAGTCGGAGACATACTCC AGGGT TCTTCCCA GGCCGAGCCGGAGCTGAGCCCGGAGGTCGGCGGTCTCTCAACCTG TTCCTTCTGCTTCCCTCAGACTCGGTACCTCGGAATCGGTGTGGCT GAGTCAGCAAGGCCCTCAGATTTGCCGGGTCTTGTGTTGCTGTTCT ATCAAGATGGGAGCTCAGACAAGTTATTGCTTCTGAGGATCTGGTG CTTTCATCAAGAAGGGACAGTTTGGTGCAGCTCTTCAGTGAAGAG GAGGTCCCCCAGAGGTGCTGGGCAATGAACCTGAACCTGCAACCCA GCGTGGTGTGAAGTCTTCAGAGAAAGCAGAAG
ENSMUST000000019213.1	1	7	ENSMUSG00000004947.1	ATACTCG AGGGT TCTTCCAGGCCGAGCCGGAGCTGAGCCCGGAGG TCGGCGGTCTCTCAACCTGTTCTTCTGCTTCCCTCAGACTCGGT ACCTCGGAATCGGTGTGGCTGAGTCAGCAAGGCCTCAGATTTGCCG GGTCTTGTGTTGCTGTTCCCTATCAAGATGGGAGCTCAGACAAGTTA TTGCTTCTGAGGATCTGGTGTCTTCATCAAGAAGGGACAGTTTGGT GCCAGCTCTCAGTGAAGAGGAGGTCCCCCAGAGGTGCTGGGCAAT GAACCTGAACCTGCAACCCAGCGTGGTGTGAAGTCTTCAGAGAAAG CAGAAG
ENSMUST00000005185.1	1	17	ENSMUSG00000005054.1	CAAGCCAGGTTTTTCT AGGGT CCAGGCACCCAGGTCTCCTAGTTGG ATCTGTCTTCAGCTTCTCCGTGCTACCCCGACTACTGCTGCCAAG
ENSMUST00000005371.1	1	102	ENSMUSG00000005239.1	AAGTTCTGTAGCTTCAGTTCATTGGGACCATCC TGGCT GATAGTAG CGACTACAGTTAGGGGACCTAGCATT CAGGCCCT CATCTCCTCCT CTTCCAGC AGGGT GTACCGCTTCTCCGAAGACTGG
ENSMUST00000006025.1	1	583	ENSMUSG00000005871.1	AGGATGGGCTGCCTACCCCATCAGGATTTTATGTTTCTCTTGTGTC TGACTTTGTGAATGGCTGCACCTTCTGTGGCATCGTAAATCTTCAGA ACTACTTTGCCATAGATTAATTAATGAATGTGGTAGGGATGAAC TCTGCTTCATTCATGATTTCTACTTCCGAAGGCCATATAGGCCATG TCCAATCAGAAGCTAAAGTGCAGCATTACTCACACAATTTCTTTA TCAGTGGTTGTATTCTGTAAGTTTGACATACAGGAGGAGTTAGGTC ATCTTTAACCTTGAACAGTCTCACCAGATAGAGAGCTTACCTGTA GCACTCAGATCTCTTCCGATGGGACTGAGGCTTCGCCTTTTGCTT GAACCTGTCTTCTCTCAGCTCAGACCCATGTTCCATCCTCTTAG GAACGTGTGCTGCTGGGACCATGGCGTTTGGAGCCCAAGCCTGCGA ATAAGCACCCTCCTCCTGCTGAGAGAGCTTTGCTGCCTTTGTCTC TTTCTTCAAACAAAACAAGCAGCTACTCCATTTCTAGTGGTGAAT TTCAAATCCTTTTTAACTTATATAGGTTCA AGGGT AGCCAAAG
ENSMUST000000055687.1	1	29	ENSMUSG00000006519.1	AGAGTTGGACCGGGCTGCTGCGTGTGCGC AGGGT CCTCGTC
ENSMUST000000017604.1	1	48	ENSMUSG00000006519.1	GACTTGCAGAGTGGGCTGCAGAGTTGGACCGGGCTGCTGCGTGTGC GC AGGGT CCTCGTC
ENSMUST000000027415.1	1	126	ENSMUSG00000006576.1	TGCGTGGGGCGCCTGGAGAGGGTCTTGGGGCAGGTGGGATCCTG CGGGGACCCGAGCGCGGGGCCACGCTGGCCTGGTGGGGTCCCC AAGAGGTCTCTGCAGCGCCCTTCTTCTCACCC AGGGT TTGGGT CCATAGTGATTGAGAGACTCCTAAGTCTTCACTTTCAGCCCTGCC GGTGGAGCAGCTGGGTGTGGGTGCACTGGGCTGTGGGAAGCCG TGTTGGAGCGAACTAA AGGGT CTGATCGGACTTGGGTTGCGCCGAA GGGACAGCCCTGAGTCTGGAGGAGAGAATCCCCGACCGTGAGACCC GCTTCCCTTGGCCCGGCCCTCCAGTTCGCCAGCGACGGCTGC TTCTTGGTCCCCGACGCAACC
ENSMUST00000007257.1	1	63	ENSMUSG00000007041.1	GGCCTCGTGTGCGTTCGGTGGGCGGCAGCCAGGCC AGGGT TT TCCGTACAGCCTTACTGCCACACCCAGTGTGAGGAGGCTGCTCG GAGCCG
ENSMUST00000007266.1	1	40	ENSMUSG00000007050.1	GGCCTCGTGTGCGTTCGGTGGGCGGCAGCCAGGCC AGGGT TT TCCGTACAGCCTTACTGCCACACCCAGTGTGAGGAGGCTGCTCG GAGCCG
ENSMUST00000009003.1	1	29	ENSMUSG00000008859.1	CGGCGGTGCTGCAGAGCGCGGGAGC AGGGT GGGTCCTCCTAGA GCGGAGCGCCGAGTCTCTCTCTCCCGCCGCCAGGCCCGCCG CCGCTGCCCGCCGCGCTCCGGACTCCTCTTGGCCGCCCGCGCGG AACTCCGAGCGGGTCCGATCGGCGCAGCCGAGGCCAAAGAGCCCG CGGTCGAGCGGCTCGCGTGCAGATTTTCTTAACTCTCTGAGGA

ENSMUST00000010051.1	1	55	ENSMUSG0000009907.1	CTCTGGAAAACAGG GCCAGAGGCGGGACCAGAGCCCTAAGGGGCTCGAAATTACGGAAGT TTTGTGCGC AGGGT CGGGTGGCTGCTGGAGTTCCTGCTGGATTAC GGCTCCGAGCTGGGGCTGCCGCTGGGGGGTCTCAGAGCCGCCAG CCTCCGCACGGTTTTCGGTGGTGACCCGGCGCGACTCCAGCGCGC TGCTGCGGGCCTTGCTGTAGTAGGGGACCCCTCGGATCTCCACC
ENSMUST00000061164.1	3	11,300,494	ENSMUSG00000010110.1	CAC TTTTAA C AGGGT TTTTTTCGCCCTCCCCCTCCGCCCTCCGAAGTG TGTCCACCTCTGGAGATCGGTTGCTGTTTTCTGTGAGAGGGGGAAG GAAATCACGTATACCAAAGGCAGGATTGAGACCTGGGCTAACTGCA AAGGTCTGCCTGGAAGTTCAGGGCCGAGGACCAGGCTGTGGCTGT TTTCTCGACTTTAGGGGCCCGGCCGAGCTCTGGCAGTCAGAGCC AAGTCGGAAGGAGACTCTGAGGAGGCTTCGCCCTGGGCCCTGGAGGA AGCTGACCGTTCTCGCCGTGTCC AGGGT GCAGGATCTGCGGGTGGC CGTGGCTCCAAGTCTGTCAAATACGGGAAAGGGCTGGGGATT GCTAGTTGAGGGGACCGTTTGGGAAAGAGGCTGTCTGGAGAATGA CATTCCTCTCCACAACAGTCTGAGGTTATGCGACTCGATGATCC CGCGAAACGCTACGGATCTAAGAACACGGATC AGGGT GTCTACCT GGGTCTCAAAGACACAGGTTCTGTCCCTGCAACTGCTATCAGT AGCAGCAGTGACAGCACTCTTTGCCACTCCGGTGGCCCTGGTCC CCTCCCTCCCGACACC
ENSMUST00000010254.1	1	193	ENSMUSG00000010110.1	GAGTTAGGAGTACGTCTAGGTGACGTGGCGGCTCCTGTCTTTGGT CCGGCTTCCACTGCTTACAGTCTTCGAGGAGGGCGCAACGATCT GGGAAGAGTGGCGGTGGTGGTGGCGGTAGGAAACAGAAGAGTCTGA GGTTATGCGACTCGATGATCCCGGAAACGCTACGGATCTAAGAA CACGGATC AGGGT GTCTACCTGGGTCTCTCAAAGACACAGGTTCTG TCCCTGCAACTGCTATCAGTAGCAGCAGTGACAGCACTCCTTTG CCACTCCGGTGGCCCTGGTCCCTCCCTCCCGACACC
ENSMUST00000010278.1	1	28	ENSMUSG00000010134.1	ACGTGTGCGGTCCCCTCCGGCGCCGAGT AGGGT CTCTCGTCGAGTC TGGGTCTAGGTTAGATTGGAATCGTGGAG
ENSMUST00000011240.1	2	27,81	ENSMUSG00000011096.1	GGCGCGTGTGTGAGCTGGGGTTTGGGG AGGGT CTGGCCTTCCTGAG GTTGAGGGGCGAGTGGGAGGGCGAGCCCCGTGGGA AGGGT ATGGAC TGCATAGGT CAGGGGGCAGT GATCGTCTCGACTCCTGGCCGAC TGCTGAAAGAGCTCACGCTCAACCCATGTGTCTGA
ENSMUST00000012566.1	1	12	ENSMUSG00000012422.1	CCCGGCCCGGA AGGGT GATGTGGCTGGACCAGCACCGGCTCACTA TG
ENSMUST00000015712.1	1	108	ENSMUSG00000015568.1	AAAGGTTGACTTGCCTACGGCGCTCCACCGGCTCCAGTCTCTT GCGCTCCTGCTCAACCCGCTCTGACTGCCCCACGCCCGTAGTT CCAGCAGCAAAGCAGA AGGGT GCACCGGGAG
ENSMUST00000061747.1	1	180	ENSMUSG00000015568.1	AGACTCTCGATTTCTCCTCTACTCCTCCTCCGAGGAATTCTGCC CTTGTAACTGTTCTGCCCTCCCTTTAAAGGTTGACTTGCCCTACG GCGCTCCACCGGCTCCAGTCTCTTGCCTCCTGCTCAACCCGC TCTGACTGCCCCACGCCGCTAGTTCCAGCAGCAAAGCAGA AGGG T GCACCGGGAG
ENSMUST00000056450.1	2	371,788	ENSMUSG00000015697.1	CGAACAGTATCGGGGCAAGAACCCTCTATTAGTTCCACTTCTGTAT GACTTCCGGAGGATGACAGCACGGCGCAGAGTTAACCCGAAAAATGG GCTTTCATGTAATCTATAAGACACCCTGTGGTCTCTGCCCTCGGAC GATGCAGGAGATAGAGCGCTACCTTTTTGAGACTGGCTGTGACTTT CTGTTCCTGGAGATGTTCTGTTTGGATCCATATGTTCTGTGGACA GAAAGTTTCAACCCTTTAAAGCCTTTTACTATATTTTGGACATCAC CTATGGCAAGGAAGATGTTCCCTGTCTGTTAATGAGATTGAC ACAACCTCCCCACCCAGGTGGCCTACAGCAAGGAACGCATTCTG GCA AGGGT GTTTTCATTAACACAGGCCCTGAATTTCTGGTTGGCTG TGACTGCAAGGATGGGTGTCTGGGATAAGTGAGTTGGTGGGGTGTAC AGGCATTGCTGTCTCTGCCCTCAGGTTTATTACAGTTGCTTTTCTT TCTTTTTTATTTGTATTGCTTTCCCTGTTTCTTTTACTCTCTCT TTCAGCTAGAGTTCTGCTAAGGTCATTATGAAATACAGATACAGAA ACTGGGTACAGTGGCACATACCTGTAACCTCAGAATTTGAAATCA GCATTGTGGCAGTTTCATCTTGAGTTCTGGGCCAGCCTAGGCTTCA TAATAACTTTGAAGCTAGGCTGAGCTAGCTACGCAGTGAGATCTTA TTGAAAGAGAGAGAGAGAGGGAGAATGAATGAACATGAGATAGG GAGACC AGGGT CTGATCGTCTTAAATGTCCCCAGGAGTAAACCTGG AAATGTAGGGTTATGTTCTGTTCTCTCTCCTCTGCTGTGTTCTG TCTCCCTTAAACCTTTTACCTTTGTTTACCATTTAGATTCTACT TTATTCTCACTGTATCTTACTCATGCTTTTCTCACTACCTTTACC TTATCCCCATCCTCTGTTATTGGTTGATTTTGGCCCTAAGGTAAGG
ENSMUST00000015893.1	1	259	ENSMUSG00000015749.1	AGTCTCGCAGCAGCCATTGAAGGGGAAGGAAC T CGGGCGCGCGCG TGCTCTCTCCCTCACTCTCTCTGTGAAAGTGTGCGGTGCCCG AGTGTGCGCGCGGGTGTGTGGACTCGGAGGTGGGGCAGCCGAG TTAGTCCCAAGTCTGTCGGACTCCATTTGCTATTCTTTCTTTCTCT

ENSMUST00000015934.1	1	95	ENSMUSG00000015790.1	CCCACACCCGTGTGGTAGTGGGCGTTTCGTCTTTGCGTCTCTTTTCA TTCATCTCCAGACCTTTAGAGGTTTTTT AGGGT TGGGGATAGTGG GGAGGGCAGGCGAGGGGAAAGGAGGAGGAC
ENSMUST00000016639.1	1	203	ENSMUSG00000016495.1	GCCCTACTCTTCCGGTCACGGTTCTTCCGACCTTGC GGGTGTG GGCAGTAGTCTCAAGCTGGGGTGTGGCCCAAGAATGCAAGCACAT CAG AGGGT TGGTTCGTCCATGATCGGAGATGCCCATCTGACGCCGA GCCACCAGTGAGACAGAGCGCCGTCCCGGAAGGAAGCAGATTCT CGTCCCGGAAGTGCTCAAAG
ENSMUST00000016763.1	2	239,630	ENSMUSG00000016619.1	GCTCTGCCGAAGCAAGGTACTGTCCCTGCGCTGATCGCTCTGGAGC TCTGGCTAGAGGCCCTCTGCTGGGGTACCGTCCCCGCACCGTGTG CGTGAGATCTCCAGAGGGACACTCTGTTTGCCTTCTATATTTAAC CGTGTACCTGAGATTTCCCCGCACACATCCAAAGTCCAAGTCCAAG AGAGCAAGGCCCAAGAAG AGGGT CAAG
ENSMUST00000039852.1	2	16,877	ENSMUSG00000017119.1	GCTTTCCAAAGATGAAACAAGGGTGTGCATTTTCCAGAACGACTG TGTAGCCACGTGCCCTGTGGGGTGCACACGTGTCAAACCTCACAGGCA CTTTCCAGGAACCTGTCTCTTCATGGTGGCAGTGTCTGTGAGC TGCCCATGCCCTTGAATATTTACCAAAAAGATAAAAGCAAAAAAGAT CATGACTGGACTGCCCTTCTAGAGCTCCCGGCCAATTTCAAGTGT AATTAGT GAGGGT GGCTTGCTTTTTTTTCTAACATCCAGCAATTT GCTGTAAAGACTATCACCTTTTGAAACAAGAATTACAGGGGAGAT GTGTGGGGTGTGACTGTAACCTCGGTGCTTTGCTTTATGCTTTAGG AGCTAGCTCATTGCATCTGACCTGAGTATGGGAATCACTATGAAGT CTGAGTGTACAGGGAGGCCCGGAGGGCAGTCTGTTCTCTTCC ACTGTGTGTAGCTGGTTCCAACCCATGGCTTAAACTTCATTTAT GGTTTAAACGTGTAGAACTTGCATCTTGTCTGTTTAAATGTGAAC GAGGTGTGTATCTCCAGTTTGAAAATCTCACGTTGTGTCTTACAT TGCCGAAGGAAGTGTGTCTCTGTGGT AGGGT GCATCTGGCA GATGCTAAGCCTGGGCCCTCCACACTATAGCTCACACTATGACAC ATTCCAGCCCTGCC
ENSMUST00000017365.1	1	120	ENSMUSG00000017221.1	AGTAGTCTGTACAA AGGGT GGGAATCGCTCCCTGAGGCCGAATA TGAGCGCAAGGTAGTGCCCAAAGCAGTTGCAAAACGAGGTCTCATC CCTCCCTCAGCCTTCTGCCATGGAAGTCTCCAGTTCCGGTAAATA AGAGACTTGTGTAAGAAGAACTACCAATTCAGCATGCATTCGGGA ACGAAAGGCCTTCTCCACAGCATCTTTGAAAGTGTAGTCTTACG GGAAAAGAGCTTCTCACACCGGAAGCAGGCACGAGTACACAGGAA CCCAGTCCGTACAGCGGAGACCTCTCGCAGTTATGCGTCTTAGCT GCTATGAATCGCAGCGTCTGTGTTCGTGTTTTGTGCACAGAAAAT AGACTAAAAGGAGCTGTGGGTTCAGGAAGACTACAATTCGGTCC AGCCCGCGATTTCTCGGAAAAAACAACAAACCAACCACTTGAAC GTGCTGGGGAGTTGCTGGGGAGTTGATGAGCCAGCGTCTGCCAAA TTTTACAGCTCTTAAGAAGGAAGATTGCATTTTCCAGGCTGACCTAG AACTTTGGACTTCCATTACCATCTGCATCAACTTCTGAGTAACT GGGACTACAGCTCCAGCCAGACAGCATGGAACCAAGTTACACTTA AATGTGACTTTTAAAAATGAACTCAAAGCTTTCTGGTTTCGGATC CAGAAAATACAACCTGGGCTGATGTTGAAGCTATGGTAAAAGTTTC ATTTGATCTGAATACTATCCAGATAAAATACCTGGATGAGGAGAAC GAGGAGATATCCATCAATAGTCAAGGTGAATATGAAGAAGCACTTA GATGGCTAACATTAAGCAAGGAAATCAGCTACAGATGCAAGTCCAC GA AGGGT TACCATGTTGTAGATGAAGCACTCCCCAAAATGTGTAG AAAACCAAGCGGCTGCCAGGACAGGGAAGAAGCCACTTGCACATTA TCTTCACTGGTGAGAGTCTTGGGATCAGACATGAAGACCACAGAG CTGGCATTTCCAGAAGCCCCAGCGCCGGGAAGGAGTTTGCAGCTG CTCGTTCATCGTGC GGCCGACGCGAGCCCGCTGGTGTGCAGGC CCGGCTCTGTGCCTGGTCTCTGGTGT AGGGT TTACGCGAGGCCCC TGCTTCGGTCCCCGACTAGGCCCTGACCCCGGGCGCC
ENSMUST00000017384.1	1	126	ENSMUSG00000017240.1	AAAATTAGCTCCACAGTAAGTAAAATAGATTGTTCTCTCTTTTCA GGTAGTTGTACCTCCTTTTCCAGGCTCCATGGAAGCCATCACCGAC AGACGTCATCTCGCTCTCCAGAAAACGTGCCG AGGGT GCAGGCC CGCCCCGGAAAGAAGGGCGGCCCTCCCTGGACGTGAAGCAGCT GGACTCCGGAGTCTCGAGCTTCCGGCAGCCTCCGCGGGCGGCT GGTGCCTAAGGAGCTGACCAGCGGTGGCCGTTCTCCGTAAG
ENSMUST00000017904.1	1	90	ENSMUSG00000017760.1	AGAGCTGATCTAAGAGGTGGCTATAAAGCCCTGGCCGGCTGCGGCC CACCAGACGGTCCC GGGAATTCGGAAC TGCTCGATGCCAGAT AG GGT TCAACCAAGTAGGGCTTGGGGACCAC TGGGGACCGTGCCTCCG CTTCTGGTTGACCTTCCCGGGGCACACGGTTGTGGTGGCGTGTGAT AGCGAAGACCAACTGTGGCCAAGGCTGACCAAGTCAAGCAGTGAA AACTCGGGTACAGCGCCAGACTGGCGGGATCCAGAGCGGTACGGC CAAGAC
ENSMUST00000017975.1	2	126,235	ENSMUSG00000017831.1	GTCCCTCGGAACCTCGAGCGCGGACTCTGGAGGAGGAGGAAAGG AAGGCCGAACCGAGAGGGCGGAGACGCGAGCCCGGACGGGGCGGCGG

ENSMUST00000018005.1	1	114	ENSMUSG00000017861.1	ACGGCGGGCGGGCGCTCATAGTCCCAGCGCCGGCC AGGGT GAGAAGAA GGAGCGAGCAGGCGACGCCCGCTGACGCCGGCGCATCCGATC TCCGGGCGGGCGGGCGGTGCGTGGCCTCGCTGCCGGGAGACGCG GCC AGGGT AATTTCTCCAGAAAGAAAACAAAATTAATGCCTTGCA TCCTGGAAGTTCATTTAGGAATCTGAAATTAGGACTTCTTTAAAA TTTGGAC
ENSMUST00000018050.1	1	530	ENSMUSG00000017906.1	CAGACCTGCAGACACGCTGACGCCCTGAGAGCACCCCTGGGGCCCG GAGCGGCTCGAGCAGCCTGAGTCCCTGACCCCGCCCGCTCCCCT CCGGCTCGCCGGCGGGCGTA AGGGT GCGGGCGGGTCCGGGCGG GGGATGTCTCGGCGACGCGCTGC
ENSMUST00000040191.1	1	57	ENSMUSG00000018166.1	CAAGCGGCAGATTCCAAGCCGGTTCCAGCTCAACCTGGACAAGACC ATAGAGAGTTGCAAAGCACAGCTAGGCATAAATGAGATCTCAGAGG ATGTTTATACAGCCGTGGAGCACAGCGATTCCGAGACTCCGAAAA GTCGGAGAGCAGCGACAGCGAGTACGTCAGCGATGAGGAACAGAAG CCCAAGAATGAGCCCGAGGACCCCGAGGACAAAGAGGGGAGTCGGG TGGACAAAGAGGCCCTGCCATCAAAGGAAGCCAAACCCACAAA CCAGTAGAGGTCAAAGAGGAAGCAAGAGCAACTCTCCTGATAGC GAGAAGCCGACCCACACCCGCCAAGGACAAGGCCAGCCAGAGC CTGAGAAGGACTTTGTAGAGAAAGCAAAGCCATCACCTCATCCAC AAAGGACAACTGAAAGGAAAGGATGAAACGGATTCTCCACAGTG CACTTGGGCTTGGAATTCGACTCGGAGAGCGAACTTGTCTAGACT TAGGAGAGGATCCTTCTGGGAGGG AGGGT CGAAAAACAAGAAAGA TCCCAAGGTGCCGTGCGCTAAGCAAGACGCTATAGGTAACCCGCCA CCGTCGTCCACTTCGGCGGGCAACAGTCTCCCCAGAGACACCCG TACTCACCCGCTCAGCCACCCAAGCACCCGCGGTGGGGTCCCGT GGCCCGCCACCACCAGCACGATGTCTACCGTCACAGTCACGGCA CCGGCCACCGCCGTACGGGAAGCCGGTGAAGAGCAGAGGCCGC TCTTACCGAAGGAGACTGTCCAGCTGTGCAGCGGGTCTGTGGAA CGCATCAAGTAAGTTTCAAACGCTCTCCAAAAGTGGCACATGCAG AAGATACAGCGCCAGCAGCAGCAGCAACAACAACAGCAGAGCC AACAGCAGAGCCAGCAGCAGCAGCTCAGTCTTCCAGGGGACGAG ATATCAGACCAGACAGGCTGTGAAAGCTGTCCAGCAGAAGGAGGTC
ENSMUST00000018441.1	1	16	ENSMUSG00000018297.1	GCACCGTGAGACACTGGGACCACAGCTGCTGCTCAACTGGGGAGTA CAATTTGCCA AGGGT ATGATATTACTCGAGGAACACAGATGCTG
ENSMUST00000018506.1	1	8	ENSMUSG00000018362.1	AGTGCTGCTCCGGTAC AGGGT CGCGCTCGGCTCTGTCTTAAGGCT CTCCTCGGTGTCACGGCACCCCTTTCTTGTCTTGCAGCGATCC TACTGCCAGAAATTCGCC
ENSMUST00000018711.1	1	18	ENSMUSG00000018567.1	GGGCTGA AGGGT AGCAGACGTTTCCACAGCCGCCAGCCGAGCTT GAGTGTCTGCACCACCTTTCGTGGAAATCTGAGCCGGGTGTACAG CTTCTCTCTTGTCTTCTGCAGCC
ENSMUST00000018713.1	1	383	ENSMUSG00000018569.1	ACTTTGTACTGTGGGAA AGGGT TTTTTCAGTTCACTCGAAACAACAG CAACCTTATCTGCGATGTATATGTGTAACCCACAAGTTGATTTCCA AAGCAGTTACGCTGAAGGCGTAAGAGGACCAGGCTACGGGTTGCCG TAGCAAGCTGAGCTAGTGGCGTATGTTAGCAGGCGGGGCGGTCCG ATGGTCGGGGCGGGGTTGATGAATAGGGAAGTGGCGCAAATTCGT GGATCGCTCCGCCAAGTCTGTTCTGTCGAAGCCGCTCCGCCCGCG CCCCGTGCCGGCCCCCCCCCTGGGTTCCCTCAGCCAGCTCGGTC CAGCCCGGTTCTCGGGAGA
ENSMUST00000019117.1	1	31	ENSMUSG00000018973.1	GCCCCACCTGCCGCGCACCGCCAGCTCCCTGTGCCGCGCACCGC AGCCTGGGGCCCAAGGGCCGCATACTTTCTGGGGGCCAGCCCTA ACGGCCCCCTCCACTTCTTTGGGTAGTCTCGGAGCACGCCGGTAGGA ACCGCCCGGCTTCGGGGACCGCTTTTGTCTGGAACAGTCCCTTCG GGCGAAGCCGGTTCCCTCTGCTGTGAGAGTGTGCTTCCAGCGAGG GGACGATTTGTGTTTACCTCGGTTAACAAGATTTGTAGTTACCCGG TCCAAAAAAAATCTTTTCTCTCTTTGGGTGACTTAAATCTCTATC CAAAATTTCTTGTGTGCTGCTCCCCGATTTTGTGTTTTTTGTTTT TTTTGCTTTACTGT AGGGT CGCCCTCCCGCGCGCTCCCGCTTTTC TGAGACAAGGAA
ENSMUST00000019183.1	1	220	ENSMUSG00000019039.1	TGACATACTGCCGAAGGTTGTAGGGCAAG AGGGT GTCTCCCCAA ACGGCCCAGCCCTCTTCGGCTCTAC
				TTTAGTCTTCCGGTCGCCATGGCGACCGGGCGCTTGGGTTGGCG AGACGCTGGAGGCCCTTAATGCAGCTGTAGGGCTGGTAGCCAGT GTGGTTTAAAGGAAACCCATGCCCGCACCTTCGTGTTTCGAGACTTC TTGGCACCGGAAGCGCGCTACAGCGCGCTTCAGGGACGGCCAGG TGCCAGAGTGCCTGTTCCGTGCGGTCTCCTGCC AGGGT CCCCG AGTGCCCTTGTACTGCGCTGCGCGCCGACACCCCGGGTTTTATCG CTCCAACCTACAGCGCCCGCTGTCTTCGAACATGTACTCGGTGCC TGGCTCCTATGCTACTCCCGCCAAACCTGCCTCACCAGGCCCGCG AGTTGCTTACACTGCCAGCACTGCGCTGTAATTCGGGGACGCTC CGATTGAGCCAGCTGCGTGCCGTCTCGTAGCCGATCATCTAGTAC

ENSMUST00000019354.1	1	4	ENSMUSG00000019210.1	GGGTACTGCGTGTCTCATGGGGTACGTGTGTGCTCAGTGCCCCCGGT GCGGGACCCTCACATGTCAACTTTCTCCAGAACTTCGGGTGGAA TGGCCACTGCCTCGAAGAGCACCTCGACCGAAACTGAGAACCT GTGTTCTTGCAAACCTTAATGGTTCTAAGGAAGCGACGTCGCC TGGCGTCTTAGGCCGACTGTGTCTGAAGGAACTGGTAGAACAGAGA GGCACTGCTGGCTATGACCCAGCATAGACCACGTGTTGGTACTG AAGATGTGCTCTCTGTGCTCTCGGAGCTGCAGGAGGCTGTGCGCCA CTGGCCAGAGGGCGGCCACCCAGCCGGCGTCCAGATGCTGGTGTA GATGACTGCGTGGTTATACACGTGGTTAGCTGTGAAGAGGCATTCC AGCAACAAAAGCTGGATTTGCTCTGGCAGAAAATGGATGACCGGGC TCCTCACAAGCAGAAAACCTGGTGTGTGGTCCCGTAAAAATGGCT GGTGTACCCGGCACCCAGCTGACTGCCCTCAGTACTACAGGCTCA TCCCAGGTTTTCGTCTCAGGTTTGTCTCCGCGCCACTTTGAACCC AGATTGGAAGCTGTCCCTGGCCGGACTTTGCCCTTCGCC
ENSMUST00000019470.1	1	92	ENSMUSG00000019326.1	GCGAGCGAGAGAGCAAGCAGCCAGCAGGCGGGCGGGTGGCCG GCCCGCACGAGGGAGGGGACGAGCAAGCGGTGAGCAAGCCAGCGA GGGTGCCCGGTTCCGAGGGCAACGGAGATTCTCAGGCCCCCTCCG GTGCCCTCCCGGAGCCAGAGCACCTCCGGCACCCAGCGGAGCGG ACACGGCCCCGCTGGCC
ENSMUST00000019611.1	1	39	ENSMUSG00000019467.1	CCCAGCTTCCGTGGCCCCTCGGCCCTGAAACTTGAAGCAGGTTAGG GGTCCAGC
ENSMUST0000005515.1	1	41	ENSMUSG00000019505.1	AGTGACGAGAGGCTTTGTCCGGTTCGGCGGTCTTTCTGTGAGGGTG TTTTCGACGCGCTGGGCGGTTTGTGCTTTTCATCACATTTGTTAACAG GTCAAAATGCAGATCTTCGTGAAGACCCGACCGGCAAGACCATCA CCCTGGAGGTGGAGCCAGTGACACCATCGAGAACGTGAAGGCCAA GATCCAGGATAAAGAGGGCATCCCCCTGACCAGCAGAGGCTGATC TTTGGCCGCAAGCAGCTGGAAGATGGCCGACCCCTCTCTGATTACA ACATCCAGAAAGAGTCAACCTGCACCTGGTCCCTCCGTCTGAGGGG TGGCATGCAGATCTTCGTGAAGACCCGACTGGCAAGACCATCACC CTGGAGGTGGAGCCAGTGACACCATCGAGAACGTGAAGGCCAAGA TCCAGGATAAAGAGGGCATCCCCCTGACCAGCAGAGGCTGATCTT TGCCGGCAAGCAGCTGGAAGATGGCCGACCCCTCTCTGATTACAA ATCCAGAAGGAGTCAACCTGCACCTGGTCCCTTCGCCTGAGAGGTG GC
ENSMUST00000019649.1	1	72	ENSMUSG00000019505.1	ATAAATAGCGGCTCGCGCGCCACTGAGCTCAGTGACGAGAGGCTT TGTCCGGTTCGGCGGTCTTTCTGTGAGGGTGTTCGACGCGCTGGG CGGTTTGTGCTTTTCATCACATTTGTTAACAGGTCAAA
ENSMUST00000019859.1	1	36	ENSMUSG00000019715.1	GAAGCGGAAGGCGGCGCCACCTCGCGGGGATTCGAGGTTTGT GTCAGTCGTGTCAGCTGGTGACATGCC
ENSMUST00000019950.1	1	74	ENSMUSG00000019814.1	AGCCCTGTGGACCCAGTGTGGAGCTGCCGGCAGGTACCGGGGAGC GGCGGTTCCGCTGCGCGGTTCCGGAGAGGTTGCCCTGCCTCATC ATG
ENSMUST00000020099.1	1	80	ENSMUSG00000019942.1	TGGCACTCGGCTCTAAGCTCCTGGAGTTGCTGCGTCCGCGCAGTC CGAACTGCGGTGTGGCCCCAGCCGGGACAGAGAGGTTCCGTGTA ACCTGTTGAGTAACT
ENSMUST00000020174.1	1	77	ENSMUSG00000019998.1	AGCTGAGACCGGCTGCGCCAGGCAGTGGCCCCCGGGTACAGCGG CTGGAGGTGGCCGAGGAAGCCGGCAGGTCAGGTTGACTCCTAGAA ATCCACATAGCCTACCTGCATCTGATGAAATCAGCCAGCCAGCCAA CCAGCC
ENSMUST00000059116.1	1	14	ENSMUSG00000020088.1	TGTGCTCTGAGGGAGGTCGCGCCGCCAGCCACC GCCGGAGGAGCC CCTCGCGGCTTGTAAGCATCAATA
ENSMUST00000020285.1	1	48	ENSMUSG00000020088.1	CGCGTAGCTGGCGGACCCGGGACTGCTGGTCTGTGTGCTCTGAGG GAGGTCGCGCCGCCAGCCACC GCCGAGGAGCCCTCGGGCCGTT GTAAGCATCAATA
ENSMUST00000020342.1	1	358	ENSMUSG00000020134.1	CCAGGTTGCTGGCTTCTTAGTTCTCTGCTTGGCATATATATTAGTCA AAGGGAGCACAGAAAATTCAGTCTTCTTGTTCCTTAGATCCCAGAA TCCCTACTGTTCTGCCTCTCTCAGATTTTATATCTTCTTATATTT TTTTTTCATGCTATTTATATATGTGCCTACATGTACCATGCTGTGC ATGTCGAGGCCAAAGGACAGTTTGCAGCAATGGTCTCTTCTTCTTTC ACCAGTGAGGTCCAGATCAAACCTCAGTCAAAGGTAAGCACTT TACCCACTGAGCCATCCTGCCAGCTCCCTCCCTTCGTATATTTAGA AAAAGCTTTCTATATCTGCTTACATATTTTATCCAGGTTCTTAA TTATACTTTGTAGAAAATAATAGGAAAATGGACAACCTTTGTTTCAGTA AAGTGGCAGACAGACAAAATGTACATTTATCTGTTTGTGTCAAAATAC AGAACCATTGACATGTGTTTCATGTGATTTTCTTGCTGTGTTTCATG AAGACTTGGAAAACTACTTATTTAACTGGAATCATGTTTCATGTT ATTAACAAAACCTTTTCTCTTTAGGAAAATAATGCAAAAGGTGTCT CAAGGCTCCTGACCAGTGAACAGAGATTTGAGAAAAGACAGCCAAGC TC

ENSMUST00000020358.1	1	39	ENSMUSG00000020149.1	GCGATCACTGAGTGGCGGGCTGCTGATTGTGTCTTA AGGGT CGG AGTGGGGTCGACGTTTGCCTACCGGAACAGCTTAGCTCATTCCCTC CCTTTCATTACCTGTGGCGGGAGAGTTGGGGCGGGCTGCGTC AGCAAGGGCGGTGGTGGCGCGGGCGCGCAGCTGCAGTGACA TGTCAGCATGAATCCCAATAT
ENSMUST00000020420.1	1	2	ENSMUSG00000020198.1	AAGGGT CTGTGGAAGCTGGGGGGGGGGCTTACTGGCTACCCCTT CTCCTCAGACTGCTCTCCGGCTACAGCCGTCGCTTGGCTCCACG GCGTCCCTCCGCGGGCGGCGAAACACAGCGGGCGGTTGCCTGA GGTGCGGTCCCGGGTCCCCGCACCTTCTAGGGCCGCGCAGCGG GTTTCCCTCGGAGGCGCAGCCACGGCCCGCCG
ENSMUST00000020604.1	1	366	ENSMUSG00000020346.1	GGTGGGGCTGCGGGCGGCAGGGACCTGGCCCCGGCTGGATCTGG AGCCGGGAGGGCGGAGGCTCCCAGCCCGGACCGATGGCGGGGCC AGTTTCCACAGAGATCAGCCTCCCGGGCCATGTTGGTGTAAAGC CTGTTTCTTCTCCTGAGCCCGGCAGAACACAAGTGGACCAGTGGGA TGACTTCTCTGTCTGAGCAAGAGATGGCTAATCCCAGCAATCTC TCTACCCTGGCTCTGAGCTGTAAAAGCCAGCTGGATGAAGGGAT GTAACACGCGCTGGGAGGGACACTGAAGTCAGGAGTGGGGGGGA GGGGCCCGGACACACCCCTTCCCCCCCCAGACTCTCCCCATC AGG GT GCACGTGGCCATGGACTTTGGACTGGATAAGTGGAGAGAAGCT GTACTTTGGGGGATCTGATTTCTAGTTTGGAAATGAAGTATTAGG TTGGGGAGGGGGCGGGTTGATGATCTTCAGGGAAGCGACAGAGA GAAGAAAAGAAAGGTACATGGCTTCTTCTACTCTCAGCCTAGAAG AATAAACCCCTAGTGTGGGGACCTGAGCCAGGCAAGCCAAAGGCAG CCTTGAGCCCTCCCTCCCTGCCCCCTCGGGGGCCAGG
ENSMUST00000020640.1	1	18	ENSMUSG00000020372.1	TCTTCTTTTCTCCAC AGGGT CGTGGTGGCAGCCGCTGTGGTGTCT TGGCTCTCTGAGCTATCCGGTGCCATCCTTGTCTGCTGCGGCGACCC TCGCATCAACTGCAGCC
ENSMUST00000020653.1	1	81	ENSMUSG00000020386.1	AGGAGCTGAGAAGAGCTGGGGCCCTGGCAGCCATAGCGCTTTGCAC AGCCGGCTTGGAGCGTGTAGGACGGGCACGGAG AGGGT TGCGTTT TCTGAAGTCGCAGACCTGTAAGATCTGGAT
ENSMUST0000003461.1	1	29	ENSMUSG00000020456.1	GGCGTTGACACCCGGAGCTCGCGGCC AGGGT ACTTGTGGAAGGC TTCAGGACAAA
ENSMUST00000060992.1	1	27	ENSMUSG00000020458.1	ACCCTAGGGCTTTGTCTACGAGTGGC AGGGT G
ENSMUST00000018744.1	1	164	ENSMUSG00000020534.1	GCGCTCTCCAGGAATTGGCGATCCACTTGCCTCTGCCTCCCTAGT GCTGGGATTAAAGGCGTGCGCCACCACACCGCTTTAGTCCCCTTTC ATAAAGACCCGAGGAACAGACGTTTACGGCCAGCTCCCCGAAACCAA GTGAACTGGAGGCCACCCTCACCA AGGGT TGGAACCTTTTCCACAA AATCCACGCTCCTAATACAAGGCAACTCTGAACCAGTGCA
ENSMUST00000051716.1	1	57	ENSMUSG00000020608.1	TTTGGGGGGTGTGCCCTGCTTGGCGGGCAGCGGTGGCCGAGGTC CGACCCCTC AGGGT CGCCTTCCGTGCTGACAGCCCGCGCGTGT GCTTCCCCGGGGTGACCCGCGACTTGTGGAGATCTG
ENSMUST00000020960.1	1	69	ENSMUSG00000020632.1	TTCTTCCGCCACCCGGATATGAGCCGTTCTCGGAGAGCCGTCCTT CTTTCTAAGCCGGCGATCCGTC AGGGT GGAAGCC
ENSMUST00000061672.1	2	62,500	ENSMUSG00000020661.1	CCACAGGCAGAGCCGCTGAAGCCAGCGCTGAGGCTGCACTTTTC CGAGGGCTTGACATC AGGGT CTATGTTTAAAGCTTAGCTCTTGCTT ACAAAGACCACGGCAATTCCTTCTGTAAGCCCTCGCAGCCCCACA GCGCCCTCGCAGCCCCAGCCTGCCCTACTGCCAGCAATGCCCT CCAGCGCCCCGGGACACCAGCAGCTCCTCTTGGAGCGGGAGGA TGATCGAAAGGAAGGAGAGGAACAGGAGGAGAACCCTGGCAAGGAA GAGCGCCAGGAGCCAGCGCCACGGCCGGAAGTGGGGAGGCCTG GCCGGAAGCGCAAGCACCCACCGTGGAAGCAGTGACACCCCAA GGACCAGCAGTGACACCAAGTCTCAGCCATGGCCAGGACTCT GGCCCTCAGATCTGCTACCCAATGGAGACTTGAGAGAAGCGGAGTG AACCCCAACTGAGGAGGGGAGCCAGCTGCAGGGCAGA AGGGT TGG GGCCAGCTGAAGGAGAGGGAAGTGAAGCCCAAGAGAGCCCTCC AGAGCTGTGGAGAAATGGCTGCTGTGTGACCAAGGAAGGCCGTGGAG CCTCTGCAGGAGAGGGCAAAGAACAGAAGCAGACCAACATCGAATC CATGAAAATGGAGGGCTCCCGGGCCGACTGCGAGGTGGCTTGGGC TGGGAGTCCAGCCTCCGTGAGCAGCCATGCCAAGACTCACCCTTCC AGGCAGGGGACCCCTACTACATCAGCAAACGGAACGGGATGAGTG GCTGCGACCTTGGAAGAGGAGGCTGAGAAGAAAGCCAAAGGTAAAT GCAGTA
ENSMUST00000020991.1	1	62	ENSMUSG00000020661.1	CCACAGGCAGAGCCGCTGAAGCCAGCGCTGAGGCTGCACTTTTC CGAGGGCTTGACATC AGGGT CTATGTTTAAAGCTTAGCTCTTGCTT ACAAAGACCACGGCAATTCCTTCTGTAAGCCCTCGCAGCCCCACA GCGCCCTCGCAGCCCCAGCCTGCCCTACTGCCAGCA
ENSMUST0000002980.1	1	36	ENSMUSG00000020664.1	GCTCCTCGCGATGACGTATATGTTGCGCAGGGCGC AGGGT GGGGAG ACCTGGATAAGCTTACCAGCGGTTTCAGCGGAGGTGAAAACCCCT GGTTGGAGGACGGGACCGAGGGACG

ENSMUST00000015107.1	1	2	ENSMUSG00000020694.1	TAGGGT TAGAGAAGACAGTTGGTACAGAAGAAAGGAGACTGAGAAG GACTAGAGAGGAGAGAGGCAGTTGGTGAAGAGAATGAACAGTAAAA GAAAGGCTGGTGAGCCAGGAAGCTAAGCTGAGCCAGAAAAGATCC TACTGTTAGGAAAACAGAGGGAGAATCCATGAAGAACTCACACAAA TAGCAGGAAAAAAAAGACATAAAGCTTCAATTTATAGAAAATTA TTGCTGGGCAGTGGTGGCATTGCGCTTTAATCCCAGCTCTCGGGAG GCAGAGGCAGGCGGATCTCTATGAGTTTCAGGACAGCCAGGGCTAC ACAGAGAAAACCTGTCTTGACCCCCATCTTCCCCCAAAAAGGT GAACTAAAAATTTCACTGTCTTCAAATGGTTCTTTAAAACCTGC ACTCAGGAAACAGGCATCAGGGCATATGCTTATACTGCCAGCTCCT AGGGCCTGGGACAAAAGGACTGAGAATTTAGAACAATCTTGGCTAC ATAGTGAGACTCTCTGAAAACAGATAAAGTCTTCAGACACGTTCA GACATCTGGTCAAGGAAGCATCAGAAGAAAACAAAAGCTGAGTCCG TTACTTTGAAGTCCGTGTCTTGGCTCGTGAACATAGAAATG
ENSMUST00000021052.1	1	34	ENSMUSG00000020710.1	GTCTCCCATTTGAGAGAGAGAGAGAGATGG AGGGT ATGGGCTA TGGACCTCGGAGGGCTCGCCACATGACCTGTGTCCCTCCACTGTT CACTTTCCTCAGCGTCCCTGGC
ENSMUST00000021085.1	1	20	ENSMUSG00000020739.1	AGAGAAGCGGCCGCGCGG AGGGT CCAGCGCGGGGGCACGGCG CT
ENSMUST00000021087.1	1	96	ENSMUSG00000020743.1	GTCTGACCTAGTTACCTGAGCGGGCAAGGGATATGGTGACCCCG GCGGGGGTGGCACTGGCAAGACCAACAACCTTCAGCAAAACGCA GGG AGGGT CCGGCCAGCGCTCGGAGGCTTTCGTGGTCAGAAA GGCGGAGGTGCTGTCTTAGTTTCAGGCCAGTGAACCTGCCGGG CTTAGACCGTC
ENSMUST00000016008.1	1	115	ENSMUSG00000020802.1	CAGAGTGGCAGTGGCACTGGTCGTAAGAGCATTCCCTTGTTCCA TCAAAAACCTGAAGCGAAAACACAAGAGGAAGAAGAATAAGGTAC CCGTGACTTCAAGCCTGGAGAC AGGGT GGCAGTGGAGGTTGTGACC ACG
ENSMUST00000019038.1	1	53	ENSMUSG00000020824.1	AGAAGCAGGCGCCAGAACAACCGGAGTCCCTGAGGCTCCAGAAC AGAGT AGGGT GAGCCAGCCCCAGCCCAGCCCAGGTTCTGGCTTC CTCTCTGCTTCTCCTCCTTTGGTTGCAGCCAGCAGAGCCCACTT AAACTCCGAGGTGACTCCAGCTGTGTTGGCGAC
ENSMUST00000021197.1	1	13	ENSMUSG00000020840.1	CTTCCGGCGCTT AGGGT GCGAGAACCAGGTCCGGCCAGCTAGGCAG CGGACTGTAGTGTAAACCCAGAGCTCACCTGAAAACCTGAAAAC AACCTTCCCTCCACGAAGCAGTTTGGGCGCC
ENSMUST00000021338.1	1	339	ENSMUSG00000020955.1	GAGCCAGGAGGCAAGACGCTCATCCAGGCCCTTCCGCGTGGCC TCACCTCAAGGGGACCCACAAGCGCAAACTCAGTGCCTAGCGGGC CCACGCCAGACTCTCGCCAGAGGCGCTGGGCCAAACCCCGGAGG CCCAGGAGAGGTGGCTCCGGAGGAGCCCTGCGGACGCCATGTAAA AGCCAAAATGGCTGCCCAAGGATGCCCGCAGCGCGCCGCCGTGA GGAGGGAGCCGGGCGCGCTCACCGCTCGCCGGCCGGAGCGGCTC AGGTTCCAGTACGGTCAATCCAGTGCATAACTTTTAAAGGATATT GCAAAGAACTGGGAA AGGGT GAAAAA
ENSMUST00000047981.1	1	51	ENSMUSG00000021012.1	GCGGCAGCGCGGCAGCGGCAGCGCGGCGTAGGGGGCCAGG CTG AGGGT GGCAGCCCGCGGGCTCCAGGTAACCGAGGCGCCG CGCAGTGCCGAGCCGGCCCGCCCGCCGAGCC
ENSMUST00000021564.1	1	149	ENSMUSG00000021136.1	GCCGCGCCACGCCGAGCGCAGCAGGCGCCACGCCAGAGCACAG CTCGACTCCAGCTCCGGGCTCCGCGCTTCATGACCGTGACCCCG GGCGCAGGCTCCTCCAGCCCCTGCCGCTGGCTCTTCGGCCACTTCC AGCTGCTGCA AGGGT CCCCACCTCCCCAAGTGCCTTGAAGTACCC TGAGCCCCCTGCCCGCTGCCCGCTCGTGGCTGCCCGCTCCGCTG GCACC
ENSMUST00000062658.1	2	1508,1619	ENSMUSG00000021156.1	CTGGGAAGTGGCTCCTCACCTCCTGTCTACTGGCTCAGAGTTTGT AAGCCCTGAGTGTACCGTTGTATGCTGCTTTACAGTAGGCA GAGTCCACACCATGAGCTTAAACCTCCAGCACCATGGGGTTTCTA ACTACACCTCCCAATCCTTCCACAGAGCTGGATTCCTTCTGAAA CATCCAGGATATCAGGTCATGTTTACCAGTGCACGTGAAGCGC AGCATGGGCTGGAAGAAGGCTGTGACGAGCTGGAACATGCATCAGC GCTTCCCTCCGTGAAGGAAGGTTCTGGAAGTCTAAGAATGAGGACCG AGGTGAGGAAGAGGCAGAAATCCAGTATCTCCTCCACCAGTAACGAG CAGGTGAGTCCGCGGTGTCGGTAAGAAGGCGCTGCTGATTCGGATT CTCCATGTACCTCCTCACTGTCTATAAACAGGTTTGTGACATCTTCT TTCCCTTTCTACAAACATCTGTAAAGTTCTCTGCACAAAGTAACCA AACAGTGCAAAGATGTGAGTGGGTAGAAGCAACCTGGAGCCTGAC CCAGTGGTGGGAGGAGATAAGTGCAGCGCTCGGCTCTCGGGCTC CGTGGCTTTTACCACCAACCCACAGCAATAACGAAGCAAGGGGCT GCTGAGTGGATGGAAGGACTCCCTTCTCTCCTGCGCGTCCACTACA AGTATTTTCAACACAGAGGTAATTTCCGTGTGTGCCAAGTAATAAGA TATTACTTTTATAATGCCACAGCTGAAGGTCACTCAAGAGCCAAAG AGCAAAGAAAGGACGACGTAATCAGAGTGTGGAGCCCAAAAAGGAA

ENSMUST00000058861.1	2	70,91	ENSMUSG00000021241.1	GTAAGTTGCCCGCCTCACAGTGTCCAGGTGGCAATCGAAAGAGGAA AGAGTCTCAAAGTACGCTCAAGCAGATCAAGTAATATCCGTCAAGT TAAGGCCAGTCTCCCGACTCCTGTCGTTGTGGACTGCTGCTCGAC CAGCACGCCAGTGCACAGTCTCCGTCCCGTAGCAGCAGCGGGGAG CTCCAGGGCCTTGTCCCTAACTGCCAGGCGGTGAGGGCTGTCTATT CCTAGGCGCTCGGGAAGGTATCG AGGGT GGAACGTCACTTAGGA AG GGT GT TGGGT TCTGCGTCTTCAGGATAGATGGGAGGC TAA
ENSMUST00000021706.1	1	6	ENSMUSG00000021277.1	GGTAC AGGGT CCCCATTACTTGAAGGATAAGGCTGGCAGCGCTCCG ACGTCTGTGTGGAAGCTTCCCTCCCTTCTGAGCTTCTCTAGACT CCTTACAGCGCACGGCACAGAATTT CAGTT TCCTAAG
ENSMUST00000060274.1	1	6	ENSMUSG00000021277.1	GGTAC AGGGT CCCCATTACTTGAAGGATAAGGCTGGCAGCGCTCCG ACGTCTGTGTGGAAGCTTCCCTCCCTTCTGAGCTTCTCTAGACT CCTTACAGCGCACGGCACAGAATTT CAGTT TCCTAAG
ENSMUST00000001307.1	2	80,303	ENSMUSG00000021282.1	CAACGCTGTGCTCGCTCGGCCGGGGCAACCCATGACTCGCCGGTGGCCT TTGATGTGACAATCTCCCGCGGCTGAGGGAGC AGGGT TTGTGTTC CGTGTGTCTCCTCGTTTCGAGCAGTTTCCCTGCCAGTCACAACC CGTGTCAAATGGTGGCTCCTGGGTTCCTGGAGTTGTCTTTGT ACATGGGGATGTCAGCTGTTTCTCACAAGGACTCGGGCTGTTAGA GCTCGGAGTGTAGTTGTGTGAGGACTCGGGGACGGGAAGTTGTC CCGGGAGGAGTGATGCTAAACCTGT AGGGT TGTTGTGTGTTTCT CCTTTCTCTTT CAGAGCT GTTCGCGAGCCATTGGTACCTGTATTG GGGAAACATAGCATAACAAGCAAGAAGCTTACAGCCTCAGTGGCGAA AATTTTTCATGT CAGAGACCGAGA ACTCTTGCAGTCGTTATGTC ATCCCTTCTTCTCCAGACAGAAGATACCAAAAAGTTGCAATCAAAG ATCTCTTCACTTTATGATAAAAGTCACTAATAAGCCAAA
ENSMUST00000050993.1	2	80,303	ENSMUSG00000021282.1	CAACGCTGTGCTCGCTCGGCCGGGGCAACCCATGACTCGCCGGTGGCCT TTGATGTGACAATCTCCCGCGGCTGAGGGAGC AGGGT TTGTGTTC CGTGTGTCTCCTCGTTTCGAGCAGTTTCCCTGCCAGTCACAACC CGTGTCAAATGGTGGCTCCTGGGTTCCTGGAGTTGTCTTTGT ACATGGGGATGTCAGCTGTTTCTCACAAGGACTCGGGCTGTTAGA GCTCGGAGTGTAGTTGTGTGAGGACTCGGGGACGGGAAGTTGTC CCGGGAGGAGTGATGCTAAACCTGT AGGGT TGTTGTGTGTTTCT CCTTTCTCTTT CAGAGCT GTTCGCGAGCCATTGGTACCTGTATTG GGGAAACATAGCATAACAAGCAAGAAGCTTACAGCCTCAGTGGCGAA AATTTTTCATGT CAGAGACCGAGA ACTCTTGCAGTCGTTATGTC ATCCCTTCTTCTCCAGACAGAAGATACCAAAAAGTTGCAATCAAAG ATCTCTTCACTTTATGATAAAAGTCACTAATAAGCCAAA
ENSMUST00000021807.1	1	381	ENSMUSG00000021377.1	TTCTGAGGAGCGGGGAGAGAGAGAGCGCGAGAGAGAGCGAGCGCGC GGCGCGAGGACCTCGGCCCGCGGACTTCTACACAGCGGGCGCCT TCTGTGCGCACCCGCGGCCCCAGCATGTGCGCGCGCGGCCCC CGTGTGCGGAGGAGAGGACGCCCCCGTCCCGCCCTCATCCGAGAAG GAACCCGAGATCCCGGTCCAGGGAAGAGAGT GAGGAGGAGGAGG AGGATGACGAAGACGATGATGAAGAGGACGAGGAGGAAGAAAAAGA AAAGAGTCTTATCGTGAAGGCAAGAGAGAGAAGAAAGAAAGTAGAG AGACTGACGATGCAAGTGTCTTCTTACAGAGAGAGCCATTTACAG TGACACAAGGGAA AGGGT CAGAAACTTTGTGAAATTGAA
ENSMUST00000021921.1	1	66	ENSMUSG00000021466.1	TGGATGTGGGCGAGCGCGCGCGCAAAAGACCTCGGGACTCACGCGCA ATGTGGCAATGGAAGGCGC AGGGT CTGAGTCCCGGCAGCGGCCAC GGCCGAGCACCCCGAGCGCCCGCGTGTGAGCGGACAGCGGGT CTGTACCCGAGCGGAGTCCCGCGCGCCAGCAGCGTCTCGCG AGCCGAGCGCCAGCGCGCGCGGAGCCCGCGCGCGCGCGCAAC GTTTCAGGCCCTGGAGCTGGTCCCGCGGTTCCAGGATCAGTCACT TCCGCGTAATGTGGGG AGGGT GAGAGCTCTACGATGTGCGCCCTAC TAGGCTGCTTCTT CAGGCT GCCTTCTCCCTGCTCCGGGACGCGG TGGTGGCGCGCGACCCCGCCTCGCGCGCGGTTCTTCCCTGGGC TAGCACCTTCT CAGGGT GCCAGACCCCGCCAGCGT CAGGCACC TTCGCTGCTGCGGTCCGTGCTGCGGGTCCAGCCTTCTAGGGC CGGGCCTCCGGGCGCGCGGAGGACGGGGAGAAGA ACT
ENSMUST00000022276.1	1	3	ENSMUSG00000021756.1	GG AGGGT GGCGTGTGCGGTGGGAGGCCAGAGCTTCGAGCCATCCG GGCTGCGGCTCCGCTGAGGGACCGGTGGTGTGGCCGGGATCCGCG GGCTGAGGGACGCTCAGGAGCGCGGAGGCTCGCGTCCGGAAGGAA GACCCGATAGAAGGAACATGACATCTAGAGGCAGCGAACTTGTTC CGATTCATGCTTTATCATTTCTTAATTTCTGATGTTGGAAACATCC CTGCAAG
ENSMUST00000022383.1	2	4,17	ENSMUSG00000021835.1	GAG AGGGT GGTGTG AGGGT GGGAAGGCAAGAGCGCGAGGCCTGG CCCGAAGCTAGGTGAGTTCGGCATCCGAGCTGAGAGACCCAGCC TAAGACGCCCTGCGCTGCAACCCAGCCTGAGTATCTGGTCTCCGT CCCTGATGGGATTTCTGCTTAAACCGTCTTGGAGCCTGCAGCGATC CAGTCTTGGCCCTCGACAGGTT CATTG CAGCTTCTTAGAGGTCC CCAGAAGCAGCTGCTGGCGAGCCCGCTTCTGCAGGAACCAATGGAG

ENSMUST0000050772.1	1	257	ENSMUSG0000022199.1	CCATTCCGTAGTGCCATTTCGGAGCGACGCACTGCCGACGCTTCTCT GAGCCTTTCCAGCAAGTTTGTTCAGATTGGCTCCCAAGAATCATG GACTGTTATTATATGCCTTGTCTGTCAA GCAGAGCTGCAGAGCGGGTCTCCCGCCCTCTGCGTCTAGCTCT CCGCACCTAGCCAGCCAGACAGCAGCTCATTCTTCGGCGCGGCC CATAGGGCCCCAGCGGTTCGGCAAGCTGGCTCCCGAGTAGCCACCG GGACCCCGAGCCCAATGGCGGGGGCGGCAACAAAATCGACAGCGC CGTGGAGATCGCCCCGGTCCAATGGAGCAGGTCTGGGAGCTCGG AGATGCGGTCCCCCGAGCAGCTGCA AGGT GAGCGGGAGCGCCGG CGGGAGGGGAGGGCGACGCGTGGGCAGCAGCTGTGCTGGCCG CGCCCCGGGACCCCTCAGCTTCGAGGCTGTGCTCGCCAGGTGGG GGCCCTGGTGGCGCCAGCAGCTGCAGCTCGCCCTGTGCTAGCTG CCCGTCTTTTCGTGGCGCTGGGCATGGCTCAGACCCCATCTTCA CGCTGGCGCCCCGCTGCACTGCCACTACGGCGCTTGCCCCCAA CGCTTCGGGTGGGAGCAGCCCCCAACTCCAGCGGCTCAGTGTG GCCGGCGCGCCCTAGCAGCCAGCGCCAGCGGAGTCTGCAACCA GTACGGACCCCTCGTGCAGTGGCTTCGCCCCACCAGACTTCAACCA CTGCTGAAGACTGGGACTATAACGACTGCCCGTGTCAACCACC A
ENSMUST0000022815.1	1	60	ENSMUSG0000022204.1	GGAGGTGCTGGAGTCAGACGTGTCAAGTTCGATAAACACTTTTGAAA AACCTCCAGGAGC AGGGT G
ENSMUST0000022856.1	1	16	ENSMUSG0000022248.1	GCTTTTGGACGCTC AGGGT CTTCTGGGGCTGGGGTGGCAGGGGC TTTGAGGGGTTCGGACGTCACCCACAGCTGGCGCCAGGGGCTCCCT TAGTGGCCGCTGTGCGGCGAGCGGGCCGAAGTCGCGTTCTCTGCA AGCCAGGTTTTCACACATCTTCCGGAAGAGGAGCATCTTCTTCTC GGAGCCGACCGTACCGTGGACCATCC
ENSMUST0000022867.1	2	54,74	ENSMUSG0000022257.1	CCCAGTGTCCCGTCGCAGCGGCCACTCGGAGCTCTCGGTACAGTGC AGAGCCA AGGGT CGGGCGAGCGGTCC AGGGT CGGGCGGCCAAGG AGAGGGGCGAGGAGCAGCGGACCCAAAGACGAAGCGAGCGAGCTCTC ACAACTTCCACGAGCGCCGGAGCT
ENSMUST0000054014.1	1	360	ENSMUSG0000022430.1	CAAAGCAAAATAGGTGTGTATTTTGGCTTTGGTTGCTTTTAAAT ACAAGAGCAAGACAGAATCTAACTGTTGAGTCTGAGGATGTAGTGA GTAGATGAAGTGCCTTTCCGTGCTGCTCTGTGACTGGTCTGAAGGT AAGTTGGTTGTATTTGGTAGACTGTGCCAGGCTTCTCCCAACAG AGTAAAAGTGATTTGGCCCTGCACTTAATGGTGGTTACTAAGTTC TTCTACATTTCTAGCTTCGAAAGGGGTGGCAGTATTTGTCTATT CTGAACCTCTGGTCTCAGTGTAGCTCCTGTGTCAGCATATCATTACAGA AGAGGCGAGGAGTTTGGGGTATTGGAGGGAGCTCCCAT AGGGT AATC ACAAACCAAGATGCAGGGCCTGCCTGTGTCCTGAGTGGCACTGATC CTCTTTACTCTGTGGGATGAGTCTTTTTTTGTACCTACTCAGG GCAGTTACTAACTTCATCTTCTCCCTCTGTGCTGTCATCTGCATTC GTGCTCTCCACCTCTTGGCATGTCTTACCTTCTCTTTCTCTGCCA CATCAACCTACACAATGTCTCCTCATTGACGTGGAAGATGTGAAG ATGTCAAGTTTGTATCAACTACGATTATCCAACAGCTCAGAGGA TTATGTTACCGTATTGGCCGAACGGCCCGCAGCACCACAAGGGC ACTGCCTATACTTTCTTTACCCCGGCAACCTGAAGCAGGCTAGAG AGCTGATCAAAGTATTGGAAGAGGCCAATCAAGCCATCAATCCAAA ATTG
ENSMUST0000023108.1	1	55	ENSMUSG0000022471.1	AGTTTAGGGAACAGGGGTGGAAGCGGGAATGCGAGTGGGCGTGC CCGCTTGA AGGGT CGAAGGGCGTGTGTGCGTGTGACGCAACGTC GCTGATTGGGCGAGAGACAAGGAGCCCGCTGGACGTGGTGGCCAC CTTCTGCTGTCCAGTGGCTTGCCCGCTGCGGTTAAGTGAGCAAA CCAAC
ENSMUST0000023292.1	1	138	ENSMUSG0000022620.1	CTGAGATCGACGCTGTCTACCACAGTTCCTCCTCAATTTGAAACC GCCCTTGTCCCATGGCGCTGGAGCCTCCCGGTTCAATGTGAAGTGA CTTCTGCTCCTGATCCCAAGCCTGTGCTGGCACCTCTGGGTGAACA GGGT CAGATCCCCGCTCGTGACGTTAATGAAGCCCTGGTCTTTAG GGGCTCTGTGGAGTTACACCCAGGCCACCCCTTCCGAGTTCTGA CAGATTCGCTGGAGCTTCAGAGAGTGGACCTACAGACAGAAGGATT ATTTGGTCTGGCGGCTCAGGGGAGGAGGAGGCTCGGGACTGGGG CCTCAGGTAGGGGCTGGCCCTGGGCGCTCAAGGAACGAGCTGTGG AATCGCTCTGCCCTTCCCTACCAAGGACTGAGGACACAGGCCCATC TGATCTCTGTC
ENSMUST0000023426.1	1	20	ENSMUSG0000022744.1	GAGGAGGCGCGGGGAGAGT AGGGT GCTGTGGTTCGGAGCTGGAGGGC GAAGCCGGTGGAGTGAAGAGTGGGCGAGCAGTCTGAATGCCAGA
ENSMUST0000023451.1	2	499,669	ENSMUSG0000022767.1	AGCTCAGAGAAGGACAACCGAGATGGCCGCTGCGGAAGCAGGAGCT AGAAGAGCTGGTGGCTGGGCTGGAAGCCGAGAGCGAGCCTCACCC GGGCGCTGGAGGAGCTGCGGGAGCGGAGCGCAGCCTGCAGCGGA GACGAAGTCAAGCATCACAGCCATTTCGAGGCGAGGCAATGTGAGGC GGCACGGGAGCGTGGGAGCGGGCTCGTGGGCTGCTGGAGCGCGC

ENSMUST00000023465.1	1	44	ENSMUSG00000022779.1	GAGCAGCACCGGCAGGACCTGGTGCGGGCAAGAGCAAGAGGGCGCT CCCCGGGTGGCTAGGCTGGAGGAGGGGCTAGACAGCCTGGACCCCT GTTCCGAGGAGCAACACAATCGGAAGCTGCAGGAACAGTGGGAGGA ACTGTCCAGTCAGCTTTTCTACTATGGAGGGGAGCAGCTAAGTCAA CAGCGAGCGGAGCAGCAACTAGGGAACCAGCTTGTGGCGCTGCAGG TACTTGGGGCGGGCTGTGGGCGGAGTATGGCTGTGGG AGGGT TAT GTGCATTTGTGGGCAGAGTATCAGCCTTCAAGGCCGGGACCGAGC CTCGAGGCCAGTGGTGTGCGAGGACTTCAGGTTCTTGACATCACT TGAATCCTCCCGAAGAAACATCTGGAGCTGGCGGAGGCCAAATTC GCATGCAGGCAGAGGACCTGCGGC AGGGT GCGCAGCGGACAGAGA GGCCTGGGCCAGCTTCCAGGAGCAGAGTGGAGTCTGCAGGTGTGA CCCCTCGTTTCTGACAGCGGTTCTCTTTCGAATGCCCTGCGGGCTC GACTCTTTCTTCTTACTCTCTGACTCGCGATGTAGCGCATCTCT GCCCTGAATCCCTATTGCCATCTTTCAGGAGCTGCAGGGGAAAGTG CCGGAATGGTAGCAGCGCTCCGACCCGGGCGGGGGCGTGGGG AGG GT CCTGCCCCGGCGGGCTTTTTCGCATCCAGCCCTCGCCGTGGG GCCCTGGGCGGGCGGTGGAGCCCGGTTTGTGGGAGTGGCTCGCTT TTCCACGAGCTCCCGCGGCCCGAGGAGTCAGCATTTGGCAGTCG TGTTGAGCTACAGAGGAGACATTTCTAAGCTTTTATATGCTGCTG TTCTGGGTCTGGGTGCAACGGTCTGTGGGCCCTGACAGCCAGGAGC AAGA
ENSMUST00000023515.1	2	71,107	ENSMUSG00000022817.1	TGGCGGCCCGCAGGAGAGGGGGAGGAGAAAGCAGAGAAGAGTGGG GGCTGGCGGCCGAGGAAAAGGG AGGGT CCTCCGAGAGTAGACCGG CGGGGACTCGGCC AGGGT CGCTCCGAGCAGCGACAACCTCCGAGC GTCCAGCGGGCCAGCGAGGAGGATGGTGGCGGGCGGGCGCGACC AGCCCGGCCGCGGGCGCGTGGAGCCGAGCGCAGCGCCCGCATGC GGCTGCGGTCCCGGCCCTCGGCCCGCTCCGCCCGCGGAGCGCC CCAGCCGAGCGCGCGCATC
ENSMUST0000003321.1	1	26	ENSMUSG00000022822.1	GCCGCTATAAAGGCTTGTTTTGTCT AGGGT CCGATGTTTCGCGAGCG TGCCCGGGCTGTTTGTCTCTCGTGTGGGGAGGCTGGGGTGCAGAATT TCTGAAAGTAAAGGAGGAGTCTGCACCCCTGGTCTCTGTGTGGTGA AG
ENSMUST00000051289.1	1	139	ENSMUSG00000022863.1	CGTTCGCCCTGTTCGGCCGCGCTCCGCCCGCCCGCCAGTCTGGTCCG GCGCGCTCAGCGCGCGCGCGCGGCCCGGACGACGACGACAGCGG CGCTCGCGCTCGGCTCCCGGCCACGGGACGCGGTTCGACCCCGCGG AGGGT GCAGCCCCGGAGCGCGCGCGCGCGGGGAAAAAA
ENSMUST00000023570.1	1	159	ENSMUSG00000022863.1	CGTGGGCGCGTTCGGACTGCGTTCGCCCTGTTCGGCCGCGCGCTCC GCCGCCCGCCAGTCTGGTTCGGCGCGCGCTCAGCGCGCGCGCGCGG GCCCGACGACGACGACGAGCGCGCTCGCGCTCGGCTCCCGGCCACG GGACGCGTTCGACCCGGCG AGGGT GCAGCCCCGGAGCGCGCGCG GCGCGGGAAAA
ENSMUST00000057483.1	1	25	ENSMUSG00000022951.1	CGCAGTGAGGGAGGATGCGCAGT AGGGT TCCTTGACCTTTTCTTCT TGAGTTCGGCACCCATAAGAAAACTGTATGTAAACTGCCCGTCGAT GCACTTAGCTACAGTATGGAATGCTGGAGCATCAGAAGCTGTTAC GCAGTTTCTTAGGGGAGGAACCGCTGATGGCCACAGCGCCCTGAAC ACGGCTGA
ENSMUST00000023731.1	1	138	ENSMUSG00000022995.1	GAGCCGGGGAGCGGGCCAGCGGACCATCTTACCCGCGTTCGGGTCCG GCTTTCGGAGCGGGAGGCAGCGCGCGGAGAGCCGGGCGGAACCTGC GGGGCGGAGGCGGGCGGTGGCAGCCGCGCGCAGGGAGCAGGAACA GGGT CAAGTCTCTCCATACCAAGGACCAGGCTAAAACAGATTACACT TGCCCTCCCTGGGCCCTATTGACTTAAAGCAGCCACTGTAATCAT G
ENSMUST00000053183.1	1	183	ENSMUSG00000022995.1	GTTCGCGTTCGCGGCTTCCGCTGCTAGGTTGGAGGGCGGGCAGGAGGG AGCCGGGAGCGGGCCAGCGGACCATCTTACCCGCGTTCGGGTTCGG CTTTCGGAGCGGGAGGCAGCGCGGAGAGCCGGCGGAACCTGCGG GGGGCGGAGGCGGGCGGTGGCAGCCGCGCGCAGGGAGCAGGAACA AG GGT CAAGTCTCTCCATACCAAGGACCAGGCTAAAACAGATTACACT GCCCTCCCTGGGCCCTATTGACTTAAAGCAGCCACTGTAATCT
ENSMUST00000041991.1	2	325,1323	ENSMUSG00000023008.1	TGCCCTCTGACAAGGCCCGGCTGCTGCGACAGTATGACAACGAGAA GAAGTGGGATCTGATCTGTGACAGGAAAGATTTCAAAGTAAAGAA CCTCCCCACACCTATATCCAGAACTCCAGAGCTTCTTGGACCCCA ATGTAACACGGAAGAAGTTCCGGAGGAGAGTGCAGGAGTCCACTAA AGTCTACGGGAGCTGGAGATCTCACTTCGCACCAATCACATTTGGG TGGGTGAGGGAGTTTCTCAATGATGAGAACAAAGGCCCTGGACGTGC TGGTGGATTACCTGTCATTTGCCAGTGTCTGTCATGTTGACTT TAGGGT CTGGAGAGTGGTGTATGACGGTGCATTTGACAGCTCCGG TCCTGGAGCAGGTCAATCGAGGACCTGCAACCGCCCAACGCCCTGT CGGCCCTTCACCAACAGCCTCGCTCGCTCTGCGCGTCAGTCCGT GCTCCGGTACAGTACTCTCCCTGGCCGCGAGGCCCTGAAGAATCC CGCCTGGTGAGCCAGAAGGATGACGTCCATGCTGTCATCTTTGTC

ENSMUST00000038494.1	1	236	ENSMUSG00000023022.1	TCAGAGCCATCATGAACTATCAGTATGGCTTCAACTTGGTCATGTC CCACCCCCACGCTGTCAATGAGATTCAGCTTAGCCTCAACAACAAG AATCCAAGGACCAAGCCCTGGTCTTGGAGCTGCTGGCAGCTGTGT GTTTGGTGCGGGGAGGTTCATGAAATCATCTGGCTGCCCTTGACAA TTTCAAAGAGGTGTGTAAGAAGTGCATCGGTTTGAGAAGCTCATG GAGTATTTCCGAAATGAGGACAGCAACATGACTTCATGGTGGCCT GCATGCAGTTCATCAACATTTGTGGTGCAGCTCGGTAGAGGACATGAA CTTCCGGGTCCACCTGCAATATGAGTTTACCAAGTTGGGGCTGGAG GAATTCCTCCAGAAGTCGAGGCACACGGAGAGCGAGAAGTTGCAGG TGCAGATTCAGCGTACCTGGACAATGTGTTTGACGTGGGGGGCTT TGAACGACGGTGGACCAGGCACAGCTTGGAGTTTAACTTTCAGTT TACAAAGACGCATGTTTGGCTGTTCAGCAGGCAAGTTGTAACCTGG TACTTACTTCTGTTCCTCTAGAACCCTGAAAGTCTGCCACAGCAC TTTAGAAGAGGGACCTGTCTGTGTTAAAGAAGAAGTTGGGAGAACC CGGTGGCTGGGGCAGAAATCCACACAGACTCAC TGCCAAACAGCAG CAGTCAAGGGTGGGCACACAGCGGACTACCTCCTGTGAAGTGACG GACAAGCCTGTCTCGGAGTCAGAGCTGACCGGGAAGAGCACACCC AGCCCAACCTAGATTTGGATCTCGTCCGGAAGCAGTTATCCAGAG CCGGTATCCTCGCTCAGAGAACAGCCACGATTTTAAAGCCAGGCC ACGGAGAGCCAAAA
ENSMUST00000024619.1	2	335,896	ENSMUSG00000023809.1	AGCCCGCATCCGCGCCGAGGGCCGCGCTCGGGCTCCCGGCGCG CGTGCCCGCCAGCGCGCTGCCTAGCCTGGGATGTGCCGGGATGCG CGCCCGCCGCTCGCGCTCCAGCAGCTGGGCGCGGGCGATGG AGCTGAGCATGAAGAAGTTCACGGTGGCAGGTTCTTCTCCGTGTA CCTGCGCAAGAAGTTCGCGCTCCAAGAGCTCCAGTCTGAGTCCGCTC GAGGAAGAAGGCATTTGTAAGGAGATTGACATTAGCAACCATGTGA AGGAAGGCTTTGAGAAGGCAGACCCCTCCAGTTCGAGTACTAAA GGTTTTAGGACAAGGGTTCGATGAAAGGTTCTTGGTGAGGAAG GTTACAGGATCAGACGCTGGTTCAGCTCTACGCCATGAAGTCCGTA AGAAAGCCACCTTGAAGTGCAGAGACCGGGTTCAGATCTAAGATGGA GAGAGACATCCTGGCAGAGGTGAATCACCTTTTCAATGTCAGCTG CATTATGCCCTTTCAGACCGAAGGCAAGCTCTACCTGATCCTGGACT TCTGCGGGGAGGTGACCTCTTACCAGGCTTTCCAAAGTGGGTGAT GTTACGAGGAGGATGTCAAGTCTACCTGGCTGAGCTGGCCTTG GCTCTAGACCACCTCCATGGCTGGGATCATCTACAGGGATCTGA AGCCAGAGAATATCTCTGGATGAAGAGGGACACATTAAGATCAC AGATTTTGGCTTGAGCAAGGAGGCCACCGACCATGACAGAGAGCC TATTCATTTCTGTGGACTATTGAATACATGGCGCCGAGGTGGTGA ACCGCGTGGACACACAGAGTCCGACTGGTGGTCTTCCGCTGT GCTCATGTTTCGAGATGCTCACAGGGTCCCTGCCATCCAGGGGAAG GACAGGAAGGAAACAATGGCCCTCATCCTCAAAGCCAAGTGGGTA TGCCCTCAGTTCCTCAGTGGGAGGCTCAGAGCCTGCTCAGGGCCCT GGCTCCGAGAGTGACCTTTTTTCTTGGAAAAGCGGTGGCGAGAGA AGTGAAGGTGGCTGTGGGTAGGGAGTCAAGACTCCTGGAAGGTGG AGAGGGTGGCGGGAGG
ENSMUST00000024642.1	1	95	ENSMUSG00000023865.1	CTTATCTCCAGCTACAGGGTGGCCCTTTATCTCTCCAGCTTCGC AGGACCCAACCTCCTGCTGAGCCTGAGCCTAGGACCCCTCCTGGG GACGCCCAGGTACCTTTGGCTCTCACCCTCCTGCCAACATCGAGT CTATAAATTTGCAAGAGCCAGAGGGAGGAGCTGCCAGCCAGGCAC AGCCGAGAACACTGGAGCC
ENSMUST00000024737.1	1	17	ENSMUSG00000023942.1	AGTCTCTGAGTTCAGGGTTTGGAGGCGCCACCTTTTGATCCTTCG CTATGGGAGTGACGTGT
ENSMUST00000056742.1	1	57	ENSMUSG00000023983.1	GCTTCTGTGTTTAGGGGGCCGCTTCGCGTGAAGGTCTGGAGTC TCTGAGTTCAGGGTTTGGAGGCGCCACCTTTTGATCCTTCGCT
ENSMUST00000024967.1	1	11	ENSMUSG00000024151.1	CGGCCAGCGCAGGGTTCGCTCTGTGCTCTAGTGGTGTGGTGGAG CGGCTCGGAA
ENSMUST00000063145.1	1	30	ENSMUSG00000024181.1	GAGGCGCGGGCGCGCTCTCCTAGAAGTAGAGGGTTCGCGCG
ENSMUST00000025014.1	1	30	ENSMUSG00000024181.1	GAGGCGCGGGCGCGCTCTCCTAGAAGTAGAGGGTTCGCGCG
ENSMUST00000025073.1	1	7	ENSMUSG00000024231.1	GAGCCGAGGGTGTGTGTCGCGAAAGCCAGAGCTCCGGAGGACGA CAGCTCCCCGAGCCAGCTACCTGCCCTCCTCCTCCTTGCCTC CTCGGCTGGCCGAGCGCATTTGTTTACTAGGCTCCTCCTGGGA GCAGTTTCAACACTAAACTTGCACA
ENSMUST00000025133.1	1	41	ENSMUSG00000024283.1	ACCGCCGGCGCCAGTAACGGGGAGGTGCGCGAGCCCGCCAGGGT CGCTGAGACTGGTCCCGGGCTGCCCGCCCGCCCGCCCGCCCG CGCGCCCGCCGCTGCCTCGCGGCGCTCTCCCCCTCCCCGACAC ACACACACAGCCGGCATTG
ENSMUST00000025163.1	2	53,165	ENSMUSG00000024309.1	GGTTTATTGATTACAGCGGGTAGAGCGTGAAGAGGTTAGCGTTG GCTTGGAGGGTTCGGGATCTCTTCTTTCGCTCCTTTGCTTAGG GAGTGGCTATTCTGGACGAAAAGAGGCTCGGCGCCTCGGAGGTT

ENSMUST00000025186.1	1	155	ENSMUSG00000024327.1	GCGGGTAGAAAGTGTCTCTCTGC AGGGT CAGGGAGGGGGGATT CAGGTGCCTCCAGAGCTTGAGACCCAGCGACCCCGCCAGGAGG CTTCTCCTTCACC
ENSMUST00000056284.1	1	155	ENSMUSG00000024327.1	TCCCGGAGCCGGTGAGAGGTCCCTGCTGCTCCCTTACGGCGCTTTC CAGGCCTTTACCCCAACCAGTGGGCCATAGAGACGCGGGCCAGAG AGACCGTAAAGTTGCTGATCAAAGGCTAGAGCGGTGTCGGGGTGG GGGGCTGCATCCAGGA AGGGT GTTGGGGATGAGGTGGACCGGCCTT GGGGACAATGTAAGAGCGGAGCAAGTAGTATAGAGGAAGGGCTTCA AGGGACGCGGATCCCGAATAGGTAGATTGAGAGTCAAGTCGAGTCCG TCTCTGTCTCCTCCGGTCAGCGTG
ENSMUST00000025295.1	1	63	ENSMUSG00000024427.1	GGCGCGCTGCGCACTGGAGCTCTCTGCCCTCCCATTCATAAAAA GCCATTTTCCAGGCA AGGGT TGCAACATCGCCGCTGAGGCAGCGA ACAGAGCTGACAGCGCGGAGCTGGCGCTGCAGGGCTCAGGGAGCTT TGCCGGCTCCTCCGACTGACGCTCTGCGACTTCAACGGCGACTGACC CACTCGGGTTCGGGGATTTACACAGACGTGGAGCGATGCTTGTGAC TCTGCAGCTCCTCAAAGACCCCTAGAAGCTGTCCCTTGGTGCAGT TCAGGACCTCCAGCCTC
ENSMUST00000007183.1	2	47,62	ENSMUSG00000024463.1	CCTGTGAGATCCACATCCCATATCGTCACGTGCATTTCTACTGTCAA AGGGT TACAGTGGCT AGGGT CTGTGCCCTGTCTCACGGCAGCCCC GAATGGTGCACCATGGCACCTGATATCTTAGGTCTTCTGGGTTC ACCCACAATGCTGTCACTCGTGAACCTCAGTGTGAGTCATTGGCAA GTCTTGGGTCTTCTTCTCCCCAGAGTAATCACACAGAGCGCTCAC ACTCTCTCTCTGGGAGCCTGTGTGAGAATTAATTACCAGCACAT CCCCGAAACTGGTGAAAGTCTGTGGCTGTAGGAGAATGTGTGGTGGGA TACATCTCTGGAAAGGACCTGCGGAAGTTAGAAATTAAGCGGTGG CTGGCGAGCCCTGCACATTTAGAGCTGGTTGGGAGAGGGCTACGGATC AGTTGGCTCTGTCTGGAGCCTGTAGAAT
ENSMUST00000025453.1	1	54	ENSMUSG00000024563.1	GGAGGAGCAGCTCGCCAAGCCTGCAGCTGCGGAGCGCCGAGCGAGC CTCCCG AGGGT AGATTTACCGGCTTTTCTGAGTGTGGATTGTT ACCTTGGTAAGAAA
ENSMUST00000025477.1	1	71	ENSMUSG00000024584.1	GAGTTCAGGGCAGCCCTGGCTACATAGAGAGACCCCTGTCTCAAAA AGGAGGAGGAAGAGGAAAAAGAG AGGGT TGTGAAAGCCAGAAA TGTTAGAGCATGATAAAGCAGGAATGTTACCAGGTGAAAGCTAGAC TGAACTACAGAGATCCCCATCTCAACATAAAGAAGTGACACACTT CCTCTACAAGGCCACACCCCAATCATGCCACTCCTGGGGCCATC TACACTCAGACCGCTCCACTGTGGTAGCTCCTAAGATGTAGCTTCT GCTCTGCACAGCTGACACTGCATTGCCCAAGCTCTTGAACAATTT GAATTCAGAGGGACAATATGGAAAGATGGATCAAGTCGCAACTAGG AGTTGACAGGTGCTGGTAACCAGTGCAGCGGTGGAGATGGCAACC TCGCTGGGAACCGCTGGGGAGCCTGAGCCCGCAGCCGGAGACGCA CTGCTCTTGTGCTCCACCGCCCGCCAGCCCGCGCAGACCCCTC CATCTTCCATTTACGCTCCGGGCCAGGCTCGACCCTGCCCGGGGT GGGGTAGGGAGCGGGCTCCCGCTTCTCTCGGGCTCCAGGTGCTTC TCCACCCCGGGCCCTCTGCGACTCAATTGCTGGGTCCCCCTCC CCCGCCACACACTCACACGCGCCCGCAGCACACAGCACAGCAC ACAACACTCACACGCCAGCGGTGCTGGCCGCTCAATGGACCG ATTTCCCGGTTTCCTGAACCCAGCCTAGCCCGG
ENSMUST00000025639.1	1	75	ENSMUSG00000024732.1	TACTGGCCAGAGACAAGAATCGTAAGAGTAAGGGAGCAGGGCATC AGAGATTTAAGAAAATGACGTTGAATA AGGGT GGACCGTGCAGAG CTCCGTGACGGCTCTTTACAGAAGTCATTTGTTATACTCTTAAAT CCTAAGCGCAGGGGATAACCCCTCCCGCAAGCACACCCATTAAC AGAGGAAAGTGAGGCTTAAAGAGAAAGGCACCAAGCGGAGAACTT TGAAGCTGTTCTTTTCCCTGTCCGAGCAAACCAATACAGGCCA CTGATGGCCACGGGTGA
ENSMUST00000025711.1	1	58	ENSMUSG00000024797.1	ACCCCTTTGAGTTGAGGTTGGAGCTATGGCGGCTGCGGACGCTGTG GGGCTGGCCT AGGGT CCGGGCCCTGGAGACTCCCAGAAAGTCCCG AGGCGGACGCTCCGGAGCGTCCGGCGGAAGGCTCACGGGATGCTGAA GCTTTACTACGGCTCTCGAGGGGAGGTGGCGGGCATCCCGCA GGGCTGACCCTCTGGACCAACCGATCTCAATGGGGCGCACTTCG ACCCGGAAGTTATCTTGACAAGCTGCGTAGAGAATGTCTCTGGC CCAGCTGATGGACAGTGAGACGGACATGGTACGGCAGATCCGGGCT CTAGACAGGCACATGCAGACCCCTGGTCTATGAGAACTACAACAAGT TCATCTCAGTACAGACACCATTCGAAA

ENSMUST00000025749.1	1	53	ENSMUSG00000024830.1	GACGTAGGCACAGCCCGGTGCTGTCTAGTCAGAGTTCTGCCTGGTCC GGGCCA AGGGT CCCGCGGACCCGGCGGGCC
ENSMUST00000025752.1	1	238	ENSMUSG00000024833.1	TCGCGCAAGCGCGCTAGGCAAAGCGTTTGGCGGGTTTTCCTGA TGCTGTCTCCTCACGGAGAAGCTAAGGTGTAGTCTCGGAAGCAA GTTTTCTCTCTGGATCGAGACCTCTCGAGGGCTTTTGAAGTATTTT TCTGTGACCTGGTGGCTGGGGTCGTTTGAGGGCTTAGGCCAGGTGG TCTCGTGACACGCTCCCTGTACCTTCCGGTAAAGCGAAAGGATAAG CGTCTGC AGGGT AGAGCTGAGGTGCGGGCCCGCGGCAGGCGCCCG GCCACTCCCGGGTCACC
ENSMUST00000040772.1	1	103	ENSMUSG00000024965.1	CCAGCAACAGCCCGCCCTGGGGAGGGACTAGTACAACCTTTCATGAT AAGGCCACTACAGGCTGACCTCTGAAGGAAGCAACTGAGCAGGACC AGGCCAGACC AGGGT AACAGGTGTCCCACTGCCACCTGACAGCTGCA GCCCCTTGCAGGCTAGCAGAACAACAGCCCGAGCC
ENSMUST00000026252.1	1	146	ENSMUSG00000025223.1	CGGGGCTGTGACCCCGCGGGCGGGCGGAGGCTGTGCATGCGAGTC TTTGTGCGGCTGCGGAGTGAGCTCCCAGCCAGACCGGCTGTCC CACTCGGGACATGAGCTGTGAAGTTGGCTCCACCTTAGTCTCAC CCTTGCC AGGGT CCCTGAGGACTCCCAGGCGTCCCCGCACCTCCC CTGACCCCTCAGTCTCCAGGTTGTTCTCAAAGTCATTCAAGC TGACTCGCCGAAGGAGCCCCGAACGGCAACGCCTTCCCTCCCTT CCACCCCGGCACC
ENSMUST00000026254.1	1	332	ENSMUSG00000025224.1	CTGGAGGAAGCTGGTGACTCTGGGGCTGACAAAAAGTTTACCAGGA AGCCACCTCGATTTTCTGTCTTCTGCCAGATCCACGGAACTAAT TGAAATTA AAAACAAAAAAGCTGTGATCACTGGTACAGAGCAG TTCAACAAAAACCAAGAAGGGGATCCAATTTCTGCAGGAGAAAG GCCTCTCACCATCCCAATGGATAACACGGAGGTAGCCCAATGGCT CCGAGAAAACCTCGGTTAGACAAAAAATGATTGGAGAGTTTGTG AGTGACCGCAAAAACATGGACCTGTGGAGAGTTTGTGAGCACCT TCAGCTTTC AGGGT TCGCGCTTGATGAAGCTCTCCGACTCTACCT GGAAGCCTTCCGTTTGCCTGGGGAGCACCCGTTATTCACAGGTTG CTGGAGGTATTCCTGAGCACTGGAGGAGTTGTAATGGCTCCCCAT TTGCTAATAGTGATGCTTGTCTTCCCTGGCCTATGCTGCATCAT GCTTAACACTGACCAACATAACCAATGTTGAAAGCAGAATGCA CCCATGACCTGGAGGAATTTCCGAAAAACCTAAAAGGTGTGAATG GAGCAAGGACTTTGAGCAAGACATCCTGGAAGACATGTACCATGC CATCAAGAAATGAGGAGATTGTGATGCCCTGAGGAGCAGACAGGCTG GTCCGTGAGAACTATGTGTGGAGCGTGTGCTTACCCGAGGTGCTA GCCCTGAGGGCGTGTCTTCGAGTGCCTCCTGGCAGCTACGATCT TGACCTTTCACTATGACCTGGGGCCCCACGATCGTGTCTCTCT TATGTCTTCGATAAAAAGCCTTGAGGAGACCATCATCCAGAAAGCCA TCTCAGGCTTCAGGAAGTGTGCCATGATCTCCGCCACTATGGCCT CAGCGATGTGTTGACAATCTCATCATCTCTCTGTGCAAAATTCACA GCTCTAAGTAGTGAGTCTATTGAGAACCCTCCAGTGTATTTGGAA GGTAGCTTCTTCCCTGGTAGGTTCCGGAAGAGCCGCGACTCCTTG GGCGTTA AGGGT TCGCGCGCCGC AGGGT CGTTTCAGCCGAGCACTT GGCGTCCCCTCGAGCTCGAGATCTGTGAACAGCCACC
ENSMUST00000026387.1	2	53,69	ENSMUSG00000025337.1	GTCCCTCCTGTCCAGCTCGGGCTCCGGCGCCCTGCTCTGACCGT GCGCTCTCTGGGTCAAGGTAGAGCCCCCGGAGCCCCGTGCCACT CGCACACTTCGCACCCCGCCAAAAGGGCAGCGGAAGGGCGCCGC CACCGACTGGGTGAGGGCTGCGGCTCCAGAGAAGGAAGCGTTGAC AGCTGGAAGCTGCTGTGA AGGGT TGCGCTGGGACTCCGGGACT GCCGTAGCGCTGCACAAGACGCAAGACCCGGGCTAACCTCTGAAA AACAAAGAAGCTGTAATACTACCAGGCTGTCTCTGTGATCAACTTCAGGA AGAGAAGAAGG
ENSMUST00000026414.1	1	205	ENSMUSG00000025357.1	GGCGGCAACATTTGTTTCAAGTTGGACAAAATGTCAAGGGCTGAGCT CTCCTTGCCTTCCATCCCAGCTGGGACTGCCGTGCTCACCCGGGG TCCCCCAGGTCTCCGCTCCGAGTGTGCGGCCCGCTTTTCGT AGGG T TCCCGGGCCCGCTCCCGGGGCTGAGCCCGCTCACTAGCGCTC C
ENSMUST00000026416.1	1	135	ENSMUSG00000025358.1	GGGGTCCCTCGCTGCCTCGGAGGCGCTCCTAAAGCTGCCTGCTCGCG CGAGAGTTTGGAGGGGGGGGCTT AGGGT CAGTTTTCGGTGGGGGGCT CGCAGGGACCCCTCAGATCTCCGCTTAGGTGCCAGTTAAGTCCGG GAAGCTGGGCCAGGCGGTCACTGGCCACCCTGAACCTGGCGGGAGC CGGAGCGCTCTGGAGAAGCCGGGACAGCCCGTTTTCAGCCAGCAG CTGCT AGGGT TGGGACCCACAGAAAAAAGTGAAGTCCGGCTGCTG TTTCCAGAGCCTGGGCCACGGCGGCGCTGGGAGCAGAGGTGGA GCGACCCTGTTACACTAAAG
ENSMUST00000026446.1	2	70,236	ENSMUSG00000025381.1	GGCCGAGCGTCTCTGTACTCCGAGTGATCGCTCTACCGTGGCTG CCGGGGCTGGTATTTCAAAGCGTGGTGGTGAAGTCCGTGAAGC ATAGCCCG AGGGT TGGGGAGCAGTGTCTGAGTTCCTCGCTCACT GGTGTTCCTAGTCTCAAAGCTGGCTCAGGGACGCCAGGAGGCAG
ENSMUST00000026584.1	1	100	ENSMUSG00000025510.1	GGCCGAGCGTCTCTGTACTCCGAGTGATCGCTCTACCGTGGCTG CCGGGGCTGGTATTTCAAAGCGTGGTGGTGAAGTCCGTGAAGC ATAGCCCG AGGGT TGGGGAGCAGTGTCTGAGTTCCTCGCTCACT GGTGTTCCTAGTCTCAAAGCTGGCTCAGGGACGCCAGGAGGCAG

				AGCCTGAGATCTGGTGGCTCTGAGAACCATTTTGACCACTGCTTAA GCTTCTGTAGTTGGAGTGGCAAGATCCACCTGCTAGGTGAAGGGC AGAGAGTGACTTTTGACCTGTACCTGCTGGTCCCTGACTTGAGAGGC CCAGG
ENSMUST0000026666.1	1	52	ENSMUSG0000025579.1	ACAGACCACGTGACCCACGCTGCCCGCTGAGCCTGGGGGTCTTCGG CCTGG AGGGT GATTGCGCAGGCCCTCAGAAGTATTCATGCTGCCCC GAACCAACAGGCTTTCACC
ENSMUST0000059097.1	1	24	ENSMUSG0000025647.1	AGATTCGATTTCCCTTTCTTTGAA AGGGT AGGAGATTGAAACTGAG TGGCCTCTGATGAAAAGAGGGGAAGTCCCTGGGCTGCAGGAGCCCTT TGAGTGAAGGCGGAGGCTAACATGGGG
ENSMUST0000058351.1	1	1365	ENSMUSG0000025791.1	CTGAGCCCTCTGCAGCAGCCAGACCCGAGCCACTGTGCGCTCGCA GCCAACCCACCACATGGTGAAGATCGTGCAGTGAAGACGCAGGCA TATCCGGATCAGAAGCCGGGCACCAGCGGATTGCGGAAGCGAGTGA AGGTTTCCAGAGCAACGCCAATATGCGGAGAATTTTCATCCAGAG CATCGTCTCTACCGTGGAGCCGGCGCTGAGGCAGGAGGCCACGCTG GTTGTGGGCGGGGACGGCCGCTTCTACATGACCCAGGCCATCCAGC TCATCGTACGCATCGCTGCAGCCAACGGGATTGGTTCGCTGGTTAT TGGGCAGAAATGGAATACTCTCCACCCCTGCCGTATCTTGCATATC CGAAAAATCAAAGCTATTGGTGGGATCATTTCTGACAGCCAGCCATA ATCCAGGAGGGCCCAATGGAGATTTTGGAAATTAATTCATATTTTC TAATGGGGTCTCTGCTCCAGAAGCAATCACTGATAAAAAATTTCCAA ATCAGCAAGACAATCGAAGAATAATGCCATTTGCCCTGACTTGAAGG TAGACCTCGGTGTTCTGGGAAAGCAGCAGTTTGACTTGGAAAACAA GTTCAAGCCCTTCAAGTGGAGATTGTGGACTCAGTGGAGGCCAT GCCAATGCTGAGAAACATCTTCGATTTCAACGCACTGAAGGAGC TACTCTGGTCCAAACAGACTGAAGATCCGCATAGACGCCATGCA CGGAGTTGTGGGACCGTACGTAAGAAGATCCTCTGTGAAGAAGT GGTGGCCCTGCAAACTCAGCTGTGAAGTGTTCCTCCCTGGAGGATT TTGGAGGCCACCATCCCGACCCCAATCTCACCTATGCTGCTGACCT AGTGGAGACCATGAAGTCAAGTCAAGGAGAGCATGATTTGGGGCTT GATGGTGACGGGGATCGAAACATGATTTCTGGGCAAGCACGGGTTCT TTGTGAATCCTTCTGACTCTGTGGCTGTATCGCTGCCAACATCTT
ENSMUST0000026987.1	1	75	ENSMUSG0000025869.1	GCGCGCACGGGTGGACGGAGACTATTAACACCGCGCTCTGAGAGCG TGTTCTTGAGTTTGAGCTGCTGTTTCA AGGGT TTGAGCTGCTGTT GGGCGAGTTAGCGAG
ENSMUST0000027035.1	2	733,1020	ENSMUSG0000025902.1	CCCATTTAGTGAAGAAACTGAAATATGGCCCACTCACACTGCTGGC GGGTCTGAAGTGCAGTTGGCCCCAACACTCCCTCCCAAAGTATCTAT CAAGAGAATGGTCAGCAGAAGTTAGATCTAGTTTTTAGAGAAATCA ACCAAGACAGGGAAGACAGAGAAAATGCATTTCTGGACCCCTG TTTTCAATCGTCAATTTCAAACAAAACCCGATGTTATTTAAAAAAA AAAAAACACGGAAGAGAAAATTAGGCCCTGAGATCTTTGAAAAG ATGCCATTAAGTATACAAAAGAGAAGAGTCACTGTGGAGGTGAG GGACTGCGTCCCTGCTTCTGAGAGGCAGGAGAGTACATGGGGAGA CTGTCTCAAACTAACACAGAAGAGATAGAATTTTTTTTTTCTTA AAGAGCACCTGGCTAGAGAAATCGATTTGTAAAATGCTATTTCTAC CCTTAGAGTTTCTTGATTAACATCTGAAATGCATTTTTTTTGT TTACTTTCAAGCTAATGTTTTTTCAGAAAAAATAAAAAGCTTTGAG GAAAAGCACATTATCAGTTAGATTTAAGACCAATTGCTTTTAAAT ACCAATTTAAATATCATTTTTTTTATTTCTTAAAGCAGATTTAAT TTTACCCCTTTGTATGAATCTTACAGACTGGAGTTTAACTACT ATCACTGATCTCTACACACAACCTCCAGCTTTAAATGGGAGGG AGG GT CACCACCTGCTTTATAACATAACAATTAGAGAAAAGCTGGCTTC TGTATGAGTTCTTTGGAGACAAAGTAGCTCCAGAACTGCAGACCA GAAGTATCAAAATCTCTGTGCTTTTTTGGAACTCCAGTAAGCCA GATTTGGTCTCTGAAATAATACAGGAAAACCTCAGCATGTCACCTC ATGGATACAATGAGCAGCACCTCCAGACATCTGAATTTTCAGCCTTC CTATTTCCCAAGAGGCTTTGGCGCCAGGCCCCGGCTCCAGCCAGT
ENSMUST0000055098.1	1	187	ENSMUSG0000025902.1	CTGAAGTGCAGGTGGCCCCAACACTCCCTCCCAAAGTATCTATCAAG AGAATGGTCAGCAGAAGTTAGATCTAGTGCAGCAGCCTCCAGACA TCTGAATTTAGCCTTCTTATTTCCCAAGAGGCTTTGGCGCCAGC GCCCGGCTCCAGCCAGTTTTTCCCAAGGCTAGCTTCCGATCCCTGC CTC AGGGT CGGGGGAAGCGGCGTGTCCCGTGGCCATAGCAGAGCTC GGGTCGGTCTGGAGAGCC
ENSMUST0000027111.1	1	61	ENSMUSG0000025968.1	TTTCCGCTCCTCCAGGTCCGGCTGACAGAGGTTGCCGTGGCCGCCAT ATTGACTTAGCGGCC AGGGT TTTGGAGGGTTCAGGAGACCCGGACA GGTCCGCGGAACACTCGGTGGGCTCCGGAGGAAAGCCATC
ENSMUST0000027195.1	1	73	ENSMUSG0000026034.1	ATCGTCGTAATCGTTTGCAGACTTCTCGCGCTGCCTTGTAAAGCTT TGCTTTCGCTTGAAGCTTTGTCTT AGGGT TGGAAAG
ENSMUST0000027298.1	2	11,191	ENSMUSG0000026124.1	CAGGACTGTAT AGGGT CAGCACTTCCAGCCTGGTGGTTCAGAGCTC CTGACCTGAGAGGGCTTCAACACCTGGACTCCAGGATCTTCTTTA

ENSMUST0000027344.1	3	387,406,64 8	ENSMUSG0000026159.1	<p>ACCCTGCTGTCTCTGGTCCAGGCAGAGGGCAGAGACATCTTCATCT TGCAAGACTGTGCATCCTGTAACCTGCTATAGTGATTCCAAGACCT GGAGTAAAGGGTGCCTCCGGGGCTAGGATATTTGAGTTTCAACTTC TGTGGTCATCGATCCCCAAGCACAG</p> <p>GGCGGTGTCCCGCCCGCCGGTTGGTGTGACCGGTTCGGCGCGTGC TGCAGCTTCTCGCTTGTCTGCCCGGGAGCCGAGCGGAGG CCGAGACCGGAGTCCGCGAGGGCGGAGCGCGCGCCGAGGGCGG CCCGTGGGAAGGGAGCGCGGGGCCCGGCAGCGCCCGGCTCCCG GCCCTGCCCGCTTCTCGGTCCGAGCCCGGCCATGGCGGCCAGCG CGAAGCGGAAGCAGGAGGAGAAGCACCTGAAGATGCTGCGGGACAT GACGGGGCTGCCGACAACCGCAAGTGTTCGACTGCGACCGCGC GGCCCCACCTACGTGAACATGACGGTCCGGTTCGTGTCACCT CCTGTCCCGCAGCCTGAGAGGGTTAAATCCACCTCAAGGGTGAA ATCTATCTCCATGACAACATTTACACAACAGGAAATTTGAATTCCTA CAAAAACATGGAAATGAAGTCTGCAAAACAGATATGGCTAGGATTTAT TTGATGACAGATCTTCAGCAATTCAGACTTCAGGGATCCCAAAA AGTGAAAGAGTTTCTACAAGAGAAATATGAAAAGAAAAGATGTTAT GTTCCGCCAGAGCAAGCCAAAGTGGTGGCTCCGTTTATGCGTCTA TTTTAGGGTCTTCTGCCAGCAGCACAAAGCAGCACCCCGGAGGTC AATAAGGGCACACCTAGTCAGTCCCAAGTTGTAGGTCCGCTCTCAAG GGCAGCAGCAGGAGAAGAAGCAGTTTGACCTTTTGAGTGATCTTGG CTCAGACATCTTTGTGCTCCAGCTCCTCAGTCAACAGCTACAGCC AATTTTGTCTAACTTTGCACACTTAACAGTCAATGACGCTCAGAA TGTTGCAGAAATCCAGTTTTCGAACGTGTCTTTCGCTGTGGCTCGG CTCTCGGACATTAGGGGAGGCTTCTGAGGGAGGGTCGAGTGACGA GGCTTGGTGTGCGTGTCTAGTAGTTCCGTTGGGTAGACTCTGACTGG TAACTCCTGGACTCGAATTTGGGTCTTGGTGTCTCCATTTCACTCC TGAAGATCCTCACGTATTTACCGCAGAACTGATTTGTGGGAGCGGG TAAAGGCTGAAGGGCATTTCTGCGTGGGGATGGCCAAACCGGCTGG CGATCGCGCAGTAGGATCTCGTTCGAGAGATTGTTCTGCCCTCC GTTTCTTCTTCAGCCACGTCGCCAGCTCCAAGTGCAGCCTCAGCCC CTGCCCTCCGTTTCCCTGTTGTCCCTCAACGGGGAAGCTCCACTCAT TCGGGGCTGAGCCTGGTGGCCAAAGCTCCTGGGGAGGCTCTGGCC TGGGCGCCCGGTACTTCCGTCCAGGAGAGAACAACAGCTCGGGGG GAAAAGTATCTCCATATTTCTGGAATTTTCAGAGAAATTTATTTG TTCAGCCTGTGACCAGATCTTCCAGAACCACCAGGAACAGGAGAA CATTATAAGCTTGATTTGGCATCGCTTTAACTTAAAACAACGTCTCA AGAACAAGCCTCTCCTGTCTGCTTCAGACTTTGAACAGCAAAGCTC CACAGGTGATGCTTGTACCCGGGAAGCCTGCCTGGGAGCAGGGCGG GCTGGGGAGGACCCCTGTGGGGCTTGAGGAAAGGTCACAGGTGAGT ACCAAACCTGCAGGGCCCATATTTGTCTTCAGGGGATCTTTCCAGC ATCTCAGGATCAGATGACACAGACTCCAGCAGTGAAGAGGACTTGC TGCCACTGGATGAGGGGAGGGCTGAATCCGAGAAACCTAACCGGCC CCCGGATTTCAACCACATCGGGTCTTTTCAAAAACGCCAGGGC CAGTTTCTTTATGCCTATCGTTGTGCTCAGGCCCTCACCAGGCAA GGTCTTGCCTGTGGCTCGGCTCTCGGACATTAGGGGAGGCTTCTG AGGAGGGTCGAGTGACGAGGCTTGGTGTGCGTGTAGTTCGG TTGGGTAGACTCTGACTGGTAACTCCTGGACTCGAATTTGGGCTTTG GCGCTCTCCATTTCACTCCTGAAGATCCTCACGTATTTACCGAGA ACTGATTTGTGGGAGCGGGTAAAGGCTGAAGGGCATTTCTGCGTGG GGATGGCCAAACCGGCTGGCGATGCGGCAGTAGGATCTCGTTCGG AGAGTTGTTCTGCCCTCCGTTTCTTCTCAGCCACGTCGCCAGCT CCAAGTGCAGCCTCAGCCCTGCCCTCCGTTTCCCTGTTGTCCCTCA ACGGGGAAGCTCCACTCATTCGGGGCTGAGCCTGGTGGCCAAAGC TCCTGGGGAGGCTCTGGCCGCGCGCGGTACTTCTGTCCAGGA GAGAACAAGCTCGGGGGAAAAGTATCTCCATATTTCTTGGAAA TTTCAGAGAAATTAATTTGTTCAGCCTGTGACCAGATCTTCCAGAA CCACCAGGAACAGAGAGAACATTAAGCTTGATTTGGCATCGCTTT AACTTAAAACAACGCTCTCAAGAAACAGCCTCTCCTGTCTGCTTCAG ACTTTGAACAGCAAAGCTCCACAGGGGATCTTTCCAGCATCTCAGG ATCAGATGACACAGACTCCAGCAGTGAAGAGGACTTGTCCCACTG GATGAGGGGAGGGCTGAATCCGAGAAACCTAACCGGCCCGGGAT TCTACCCACATCGGGTCTTTTCAAAAACGCCAGGGCCAGTTTCT TTATGCCATATCGTTGTGCTTAGGCCCTCACCAGGCAAGTAAACGT CCAGATTTGTGTGCTCACTCCCAACTTTTGTATACTAGGTTTCTC AGCCAATGTATGCTTATTTTCTTCTTTTGTAGTAAGGCTATATCA TACCTGACAGCATAATCTTGAACAGGGTGGCCAGAACTTGAATGGGTCA CTTCCGACAGGCCGAGACCGGTCGGTGTGGAGTTTGTAGTGGCAG ACCTGTGCTCGTTCCGAGCCAGCGAGGGTGGACTCGGCCAGAGG TGGGCTCGAGCCCGCACCTCTCGCCCGCCACCCATGCCTGACC</p>
ENSMUST0000027397.1	1	77	ENSMUSG0000026199.1	<p>TGTTGCAGAAATCCAGTTTTCGAACGTGTCTTTCGCTGTGGCTCGG CTCTCGGACATTAGGGGAGGCTTCTGAGGGAGGGTCGAGTGACGA GGCTTGGTGTGCGTGTCTAGTAGTTCCGTTGGGTAGACTCTGACTGG TAACTCCTGGACTCGAATTTGGGTCTTGGTGTCTCCATTTCACTCC TGAAGATCCTCACGTATTTACCGCAGAACTGATTTGTGGGAGCGGG TAAAGGCTGAAGGGCATTTCTGCGTGGGGATGGCCAAACCGGCTGG CGATCGCGCAGTAGGATCTCGTTCGAGAGATTGTTCTGCCCTCC GTTTCTTCTTCAGCCACGTCGCCAGCTCCAAGTGCAGCCTCAGCCC CTGCCCTCCGTTTCCCTGTTGTCCCTCAACGGGGAAGCTCCACTCAT TCGGGGCTGAGCCTGGTGGCCAAAGCTCCTGGGGAGGCTCTGGCC TGGGCGCCCGGTACTTCCGTCCAGGAGAGAACAACAGCTCGGGGG GAAAAGTATCTCCATATTTCTGGAATTTTCAGAGAAATTTATTTG TTCAGCCTGTGACCAGATCTTCCAGAACCACCAGGAACAGGAGAA CATTATAAGCTTGATTTGGCATCGCTTTAACTTAAAACAACGTCTCA AGAACAAGCCTCTCCTGTCTGCTTCAGACTTTGAACAGCAAAGCTC CACAGGTGATGCTTGTACCCGGGAAGCCTGCCTGGGAGCAGGGCGG GCTGGGGAGGACCCCTGTGGGGCTTGAGGAAAGGTCACAGGTGAGT ACCAAACCTGCAGGGCCCATATTTGTCTTCAGGGGATCTTTCCAGC ATCTCAGGATCAGATGACACAGACTCCAGCAGTGAAGAGGACTTGC TGCCACTGGATGAGGGGAGGGCTGAATCCGAGAAACCTAACCGGCC CCCGGATTTCAACCACATCGGGTCTTTTCAAAAACGCCAGGGC CAGTTTCTTTATGCCTATCGTTGTGCTCAGGCCCTCACCAGGCAA GGTCTTGCCTGTGGCTCGGCTCTCGGACATTAGGGGAGGCTTCTG AGGAGGGTCGAGTGACGAGGCTTGGTGTGCGTGTAGTTCGG TTGGGTAGACTCTGACTGGTAACTCCTGGACTCGAATTTGGGCTTTG GCGCTCTCCATTTCACTCCTGAAGATCCTCACGTATTTACCGAGA ACTGATTTGTGGGAGCGGGTAAAGGCTGAAGGGCATTTCTGCGTGG GGATGGCCAAACCGGCTGGCGATGCGGCAGTAGGATCTCGTTCGG AGAGTTGTTCTGCCCTCCGTTTCTTCTCAGCCACGTCGCCAGCT CCAAGTGCAGCCTCAGCCCTGCCCTCCGTTTCCCTGTTGTCCCTCA ACGGGGAAGCTCCACTCATTCGGGGCTGAGCCTGGTGGCCAAAGC TCCTGGGGAGGCTCTGGCCGCGCGCGGTACTTCTGTCCAGGA GAGAACAAGCTCGGGGGAAAAGTATCTCCATATTTCTTGGAAA TTTCAGAGAAATTAATTTGTTCAGCCTGTGACCAGATCTTCCAGAA CCACCAGGAACAGAGAGAACATTAAGCTTGATTTGGCATCGCTTT AACTTAAAACAACGCTCTCAAGAAACAGCCTCTCCTGTCTGCTTCAG ACTTTGAACAGCAAAGCTCCACAGGGGATCTTTCCAGCATCTCAGG ATCAGATGACACAGACTCCAGCAGTGAAGAGGACTTGTCCCACTG GATGAGGGGAGGGCTGAATCCGAGAAACCTAACCGGCCCGGGAT TCTACCCACATCGGGTCTTTTCAAAAACGCCAGGGCCAGTTTCT TTATGCCATATCGTTGTGCTTAGGCCCTCACCAGGCAAGTAAACGT CCAGATTTGTGTGCTCACTCCCAACTTTTGTATACTAGGTTTCTC AGCCAATGTATGCTTATTTTCTTCTTTTGTAGTAAGGCTATATCA TACCTGACAGCATAATCTTGAACAGGGTGGCCAGAACTTGAATGGGTCA CTTCCGACAGGCCGAGACCGGTCGGTGTGGAGTTTGTAGTGGCAG ACCTGTGCTCGTTCCGAGCCAGCGAGGGTGGACTCGGCCAGAGG TGGGCTCGAGCCCGCACCTCTCGCCCGCCACCCATGCCTGACC</p>
ENSMUST0000058770.1	1	50	ENSMUSG0000026199.1	<p>GGTCTTGCCTGTGGCTCGGCTCTCGGACATTAGGGGAGGCTTCTG AGGAGGGTCGAGTGACGAGGCTTGGTGTGCGTGTAGTTCGG TTGGGTAGACTCTGACTGGTAACTCCTGGACTCGAATTTGGGCTTTG GCGCTCTCCATTTCACTCCTGAAGATCCTCACGTATTTACCGAGA ACTGATTTGTGGGAGCGGGTAAAGGCTGAAGGGCATTTCTGCGTGG GGATGGCCAAACCGGCTGGCGATGCGGCAGTAGGATCTCGTTCGG AGAGTTGTTCTGCCCTCCGTTTCTTCTCAGCCACGTCGCCAGCT CCAAGTGCAGCCTCAGCCCTGCCCTCCGTTTCCCTGTTGTCCCTCA ACGGGGAAGCTCCACTCATTCGGGGCTGAGCCTGGTGGCCAAAGC TCCTGGGGAGGCTCTGGCCGCGCGCGGTACTTCTGTCCAGGA GAGAACAAGCTCGGGGGAAAAGTATCTCCATATTTCTTGGAAA TTTCAGAGAAATTAATTTGTTCAGCCTGTGACCAGATCTTCCAGAA CCACCAGGAACAGAGAGAACATTAAGCTTGATTTGGCATCGCTTT AACTTAAAACAACGCTCTCAAGAAACAGCCTCTCCTGTCTGCTTCAG ACTTTGAACAGCAAAGCTCCACAGGGGATCTTTCCAGCATCTCAGG ATCAGATGACACAGACTCCAGCAGTGAAGAGGACTTGTCCCACTG GATGAGGGGAGGGCTGAATCCGAGAAACCTAACCGGCCCGGGAT TCTACCCACATCGGGTCTTTTCAAAAACGCCAGGGCCAGTTTCT TTATGCCATATCGTTGTGCTTAGGCCCTCACCAGGCAAGTAAACGT CCAGATTTGTGTGCTCACTCCCAACTTTTGTATACTAGGTTTCTC AGCCAATGTATGCTTATTTTCTTCTTTTGTAGTAAGGCTATATCA TACCTGACAGCATAATCTTGAACAGGGTGGCCAGAACTTGAATGGGTCA CTTCCGACAGGCCGAGACCGGTCGGTGTGGAGTTTGTAGTGGCAG ACCTGTGCTCGTTCCGAGCCAGCGAGGGTGGACTCGGCCAGAGG TGGGCTCGAGCCCGCACCTCTCGCCCGCCACCCATGCCTGACC</p>
ENSMUST0000027401.1	1	72	ENSMUSG0000026201.1	<p>CTTCCGACAGGCCGAGACCGGTCGGTGTGGAGTTTGTAGTGGCAG ACCTGTGCTCGTTCCGAGCCAGCGAGGGTGGACTCGGCCAGAGG TGGGCTCGAGCCCGCACCTCTCGCCCGCCACCCATGCCTGACC</p>

ENSMUST0000027499.1	1	77	ENSMUSG0000026278.1	GGTGCAGAGCTGGACCTGGCCGAAGGTGGGCCGGGGTTGAAAGAA GCGGCTGCATGACCCGCCGGGACCCACCGCATCGCCTGGAAGAG CCCACCTCCCTGGAAGGAAGACCATCCCTGAAGAGGATGACTGAG ACGTT
ENSMUST0000027534.1	2	44,425	ENSMUSG0000026309.1	GGCGGAGCCTGTGCTTCAGCTCGGGTGTGGACGGGGCGGGCGCTGG GGCGGGGCGCGCTCGCGGGTTTGAATGGA AGGGT CTAGACCGCC GGAGACGGCAGCAGCGGGTCCCTGAAACCAGAACTCCACCGCCGCC CCGCGGCCATGAGCGGGAGAGGTGTGGCGCTCTCGCCCGCGCT TCGGCC
ENSMUST0000027629.1	1	29	ENSMUSG0000026380.1	GTCTCCCGGGTGTAGTGACGGCGCCGCCCGCCCGCCCGCC AG GGT AGCGCGGAGCCTCCCGTCCACTGCACCGCCGCCATGGACGTCT TCGGGGACCTGCCGGAGCCCGAGCGCGCCCGCGGCCATCTGCCGG GAAGGAAGCACAGGACGACCCGTGCTCTTTGAGGACCTGCCCCCG GCCAGCAGTACTGACTCAGGCTCTGGGGACCTTTACTCTTTGATG ATCTTCCGCCTGCTGCCAGTGGCAATTCAGGTTCTCTTGCACATC AGGTTCCAGGTGGTGAAGACTGAAGGAAAGGAGCAAAGAGGAAA GCCCTGAGGAGGAGAAGAATGGCGGTGAAGAGCTTGTGGAAAAGA AAGTTGTAAAGCCTCTTCGGTGTCTTTGGTCTGAAAGGCTATGT GGCAGAGCGGA AGGGT GAGAGGGAGGAGATGCAGGATGCCATGTC ATCCTGAACGATATCACTCAGGAGTGAATCCTCCATCATCTCTCA TTACTCGGGTTTCACTTTGCTGTGTTTGTATGGACATGGAGAAT ACGAGCCTCGAAATTTGCTGCACAGAATTTGCACCAGAACTTAATC AGGAAATTTCTAAAGGAGATATA
ENSMUST0000027686.1	2	25,32	ENSMUSG0000026427.1	TGGGTGCTGCTTAAAGGTGGACGGCGGCC AGGGT TGCCGCTCCAG CTCGGTGCCACGCCCCGGCGGTGCTGCGGAAGCCTCAGCC
ENSMUST0000027697.1	1	121	ENSMUSG0000026437.1	GCCGAGTCTCAGCATGGCTGCCTCC AGGGT T AGGGT CCGGGAGCC GCCACTCCTTCGTTTGTGTTGACCGCCCTTGGCGTCTGTGCTCTCT TGCTTTCCCTGAGCTACTCCAGCAGAC
ENSMUST0000027877.1	1	198	ENSMUSG0000026585.1	TTTTGCCTTCTCCTCCTCTTACCACCTTCTGCACCCCTCCCTT CTCCCTTCTCCCGCAGCTCAGGTTACAGCTTCTTTGGGGGAAAC CGCTCACCTTTCAGGGCCAGGAAGAGCC AGGGT CCCGAGTAGGGA CCCCGGCGGGCGGGGCAGGGCACCTAAGCCTGGCAGCGCGGCC GCGGAGGGCGGGAGCCGGCTCGCCACGACCGGGACACGCGCAGAGT CCGCCGCGGGCCAGAGAGGGGCACCGCGCCGGGCAAGCTGAGCA AAGGACCACTTTGGACCCCTGCTGATC
ENSMUST0000056368.1	1	102	ENSMUSG0000026585.1	GTAGCGCATGCGCCTTTCGGAGAGTTCGGCCCTGACGGCTCTGGG CGGGTCTGGGCTGCTCCAGTGTTTTGGGGCCAGGAGCAGTGGGAG GAGCCGGCGGGTTCACCGTGGTAACCGCTGCGCCGCGCCGCCGCC ACCGCCACCGCCACCGCGCCCGCCCTTGACGGCTTTGGACTGTG ACCGCTCTGCTTT AGGGT ACTTTGGCCGGGTCTCCGGAAGTAGCC CTCCAGATTTCTCAGACACTCCCATTTCTCCCCACGCCGCTGCCGCC GCCGCCGCCGCC
ENSMUST0000052228.1	1	102	ENSMUSG0000026585.1	CGGCGGGTTACCGTGGTAACCGCTGCGCCGCCCGCCGCCACC CCACCGCCACCGCCCGCCCGCTTGCAGGCTTTGGACTGTACCG CTCTGCTTT AGGGT ACTTTGGCCGGGTCTCCGGAAGTAGCCCTCC CAGATTTCTCAGACACTCCCATTTCTCCCCACGCCGCTGCCGCCGCC CCGCCGCC
ENSMUST0000027927.1	1	330	ENSMUSG0000026618.1	CGGCGGGTTACCGTGGTAACCGCTGCGCCGCCCGCCGCCACC CCACCGCCACCGCCCGCCCGCTTGCAGGCTTTGGACTGTACCG CTCTGCTTT AGGGT ACTTTGGCCGGGTCTCCGGAAGTAGCCCTCC CAGATTTCTCAGACACTCCCATTTCTCCCCACGCCGCTGCCGCCGCC CCGCCGCCATGCAAGGCGAGGACGCCAGATACCTCAAAGGAAAGT TAAAGGGGGG
ENSMUST0000062189.1	1	25	ENSMUSG0000026618.1	TCCTCCGAAGTTGGAGTCTCTTACAGATGCCTCATCCCTGTTAGC GTTTTAGTTTGGACCACCAGCCTTGGACAATTCGCCCAACCAGG CAATTTGCTATATGCCAGAGGCAAAGTATGCTGTGGTGAATGTT TGCTCTGGGCACCTCTACATCTGGCTGAAGATAAAAATAGCACCT GTCGCTTCTGCCTTGGAAACAACATTTGATGTTGTTGCAGCATTT CAGGTGTGGATCTGGAAGGTGGCACTTGTAGTCAACCTTTAACTCC CGATAAAGTGTCTCTCTTTTACCTGCTACCCAGTACTATGGCC AAAGGAAC AGGGT TGGTTACACAGCCCCAGCTCACGGTATGGAAG ATTACAGCGTAGCATCTCAGCACAGCCTCCCTATGGACTGTTTAGT GGATGAAGGCGGAATGTTACCCGATGCCGAGGCCCTGAACTTTCAG AACAAGGCTGTACTTAAAGAAGGAACAGATGTGGTTATAAAGATGC TTCAAGCTACCAAGAATGTGTTGAAAGAAGAGAACATTTGTGCACAG CTATCCCTGTGACTGGAGAATAAGACACCCGTGCTGATTCGA CAGTTCTCGCCCGGAGCTCTTCA AGGGT CTCTACCTTTAGGTAC CGGGCGCTGCCGTGGCCGTGTGCGGAGGGCTCCGCCGGCTCGT CCACCATGCCTGGGGCTGTGCCCTCGCGGGCCGGGGCGGGCGG

ENSMUST00000027931.1	1	81	ENSMUSG00000026622.1	GGTCGCCCGCGCT CAGACGAGGGGCTCGGGTTTCGGCGCGGTTGGCCTGCAGCGGGCGA GCCTGGGCTCCGAGCGGCGCGTGGTGTGGTTGCC AGGGT GGCCGC TCGCC
ENSMUST00000060745.1	1	10	ENSMUSG00000026634.1	GCGGAGGAAG AGGGT CCGCGGCGGGGACGCCAGGCGGCGCCCGG GGAGAGGTAA
ENSMUST00000027961.1	1	18	ENSMUSG00000026651.1	GCTAGCTGAAGCTGCTGA AGGGT CCTTCGTTGAGCTGCCGTGGTCT CCGCCGCTT
ENSMUST00000027980.1	1	16	ENSMUSG00000026669.1	CAGCTAAGAGGAAGGA AGGGT TGGTTACAGGAAAGGGAGTCGGATT GAGTCTTCAGCACTGCCTAGTGTACAGCTGCTTAGAGCACTGGCTT CACGTGCCCTTCCAAAACCAGCTCAGACTGACCTTCGCCCATTCGTA GGATAAAAACCGTAGCACTTACATAAGCTTTCTCTTACAGGTGTGC TTATCTATTGATCATCCTCAAAAAGTCTTAATTATGGGAGAAGCTA TGGACCTGGGAGCCTGTAAGGCCAAGAAGAAGATGGAGAGCCATG TACACAGACAGTTAACTTGCATGACTGTGAATACTGCCAGTATCAC ATCCAGGCCAGTACAAGAAGCTCAGCGCAAAGAGGACTGATCTGC AGTCCACTTTCCTGGGGACGGATTCCGAAGAAGTTCGCCAAAGG CACCAGCCTGAAGGAGCGGCTGTGCCAAGATGGTTTCTACTATGGT GGTGTTCTTCCGAATCCTTCGCAGCGTCCAGGCGGCGCCATTTG CTCCTAAGAAGAAGTTCAAACCACGCTGACCAATCTGGTTGTCCG GGGCACAACTCGATCATCCAGGAACAAAACAAAAGCTTGGTATT CCCCAGAAGAGCTTGTCTGCTCTGAGGAGTTCAGGGAATTG
ENSMUST00000028059.1	1	4	ENSMUSG00000026727.1	GGAC AGGGT GTGTTCTGCTGCGGGATCCTGTTTTTCGGCTGATCCA GTTTCATCGCTCTCCACCCGAGTTTCCCTTCAGGTCCTTAATCACA CCCACAGGTGTTGCTCGCTGCGAAC
ENSMUST00000028139.1	1	113	ENSMUSG00000026799.1	GGAAAGCCGGCTGTGACAGCTGCAACATGGCGGACGTGCTGAGCGT TGGTGTGAACCTGGAGGCCCTTTTCGCAGGCTATTAGCGCCATCCAG GCGCTACGCTCTAGCGTGAGT AGGGT CTTCGACTGCCCTTAAGGATG GC
ENSMUST00000052987.1	1	494	ENSMUSG00000026814.1	AGGAAGTCTACAAGACAGTCTCCATGCGCCTGAACATCGTCAGCCC TGACCTGTCTGGTAAAGGCCTTGTCCTGCCCTCTGTACTGGGTATC ACCTTTGGTGCCCTTCCTGATTTGGGGCCCTGCTCACAGCTGCACTCT GGTACATCTATTTCTCACACACGTGGCCCCAGCAGCATGGCGTAGTG CCCAGCCTGGAGCCTCGGGGAGCCCCCAGCCAGCCCTTGCCCTGC AGGAGAGACCGAGCAGCCACAAGCTGGAAACCACCGGCCATGAACT TGTCCAGGAACCAACACCTCCCTGCACCTGTTTCATTCCTCCCA GTGGAGACTTCAGATTGGAATACCTTGGGATCTCTCACCCCACTT TACAGAACTGCCCAATCCAGGGGCTCTGGGATATGGCTGCCCGGGA TTACAGAAAGACACGGCACTGCCGTGCACACCCATGCTGCTTAGAA GCCTAAGCCTCTGCCTTCAAGCTGGATCCTGTGC AGGGT GGGCAGG CAAGAACTCAGACATGCCAGCCTAGCCAGGGCGGCTGCATCTG GCCCCAGAAGCCTCCTCACCTGGACTGGCACAACCTTCGGTTGGGGA AACAGAAGCTGAGGGAGCTTAGATGGGGTGGGGATCCAAGCCCTC CCCAGCCACCCATTGGCCAGGCAGCAGGGGGAGTGGCCAGGCGG CTGGTTGTGGCCCAAGTCTGCATATTCATAATAAATCAGACATG AAACCAGTGCCCTCTGGGTTGTATGGGAGAAGAGGAAGATGGGCA ATT
ENSMUST00000054313.1	1	791	ENSMUSG00000026842.1	GCCAGCTCTGCCTCGGAAACGCACCAGTGAGAGCAGGTCTGAGCAG GTGGCCAAAAGCAGCGGATGCCCTCCCGGCTGGTGAAGAAGA ACGAGGAGGCTGCTGAAGAAGGCTTCAAAGACACAGAATCCAGCCC TGGCTCCAGCCCTCCAGCTTGACTCCCAAACCTCCTCCGAGGCAG GTCACTGCCCTCTCCTTCTGGCTCTCTCACAAAGGAAGAGGCCA CCAAGGGCAGTGCCTCAGGCATGGGGACTCCGGCCACTGCAGAGCC AGCACCCCCAGCAACAAAGTGGGCTCAGCAAGGCCTCCTCTGAG GAGATGCGCGTAAGGAGGCACAAGCACAGCTCGGAGTCCCCAGGGA GAGACAAGGGGCGACTGGCTAAGCTCAAGCCTGCCCGCCGCTCC TCTTGCTGCACAGGAAAAGCAGGCAAGCCGCACAGAGCCCCAGC CAAGAGGCCGGGAGGCAGGGGGGCCCAAAAGACAAAATGCACGA GTCTGGCTATGGATGCTGTGAACACTGACCCACCAAGCCGGCCC ACCTGGAGAAGGACTGAGAAAGCCTGTGCCCCATCTGTGCCAAAG CCCCAGTCGACGGCTAAGCCTCCAGGACTCCCACCAGCCGGTCT CCACCCCTCCACAGCACAGCTCCTTCCACCCCTGGCTGGGACCA GCAGCCATCTTCTGCCGCTTCATCCCCCTCATATCAACCCGTGTG TCTCTTAGGAAGACCCGCCAGCCGCAGAGCGCATTGCCAGTGCCA CCATCACC AGGGT TGGTTCTGGACAGTACTGAGGCCCTGTGCCT TGCCATCTCCCGAACTCAGAGCAGATGGCCAGCCACAGTGTGTA CTGGAGGCTGGCAAGAACCTGTACACTTTCTGTGTGAGCTATGTGG ACTCTATCCAGCAGATGAGGAACAAGTTTGCCTTCCGTGAGGCTAT CAACAAGCTGGAGAGCAACCTCCGAGAGCTGCAGATCTGCCCTGCC

ENSMUST00000028205.1	1	10	ENSMUSG00000026851.1	CGCAGCGCCA AGGGT CTGGTTCCGCT
ENSMUST00000028258.1	1	29	ENSMUSG00000026895.1	ACGGGGCAGACCGGCCGAGGGCACCTGGT CAGGGT CGCGGCTACCGC CGTC
ENSMUST00000028389.1	2	10,105	ENSMUSG00000027004.1	GTGGGGACCA AGGGT TCGTCTATGGATCCAGAGCCGGGGTGGAGT GGGAAAGGTGTGCGGCTCCTGTGCGGAGCTGCCTGGGGCTACAGC ATCACAGATAGAC CAGGGT CTCACACTCCAGTCCCCTGAAACTCAA AGCCTTCTCGGAAGGAGAGCCGGAGGGCAGGGACCGCGGGGCGG AGCTCTTGTGCGCCGAGGTGGGAAGGCGCAGCTGCGAGCCAAGGCG CTGACCTCCTCTGAGCTCCTCTGGCCGCTCGCAGGATCTTCCCGAC CCTGCAGGACTTGGCAAACCTCCACCTCCGCTCCCATTAGTCCCTC CACCCACCAAAATCTCCTCCCTCGGAGGTCCCCTATCCATCTCAC TTTGCAGAAATTTATCGCTTCTTCCAACACCTTTTGTGCAACACCCCA GAATCCGAGTCCCTAACTGAATTTGACTTTTGTTTTTATTTCTC TCTGGCTTCCCTTCTGCCCCCTCATCTGATTGATGTGCTAAGGCT GATGTCTCTGCCAGAGCGAGAGGAATAAATAGATGCTGCCTCGCCT AGAGGCTTAGACGCTTGGGAAGAGCAGCCGGCGCAGCGAGGCACCG GGCTCCGCCAAGCTAGTGGACCGGACCTGGGAGCACTTGGATCCAA GAGAATGTGATTGTCCAGGGGTGGGGCAGCTCCCAGGTCTGTT GGGATCACCCCTCGGAACCGAGGGGAGACTTCGGAACGAAAGTG TCTCCGCGTCCGTGCTCGGCTGCGCCCTGCCCATCTGCTGGG ACC
ENSMUST00000028463.1	1	136	ENSMUSG00000027067.1	GAAACGTAGATTACGCGGGGCCCGGGTGGTGGGGTCTCTGCGA TCAGGACACTACCCTCTGAGCGGAGTTGAGATCCCACCTGTGCG ACATCTACACAACCTAACAGGAATGGGGCACAGCATCCAGAGAA AG GGT TCGTTTTCTCTGGTGCAGCCTAGGGCTGTGTGCTCAGGCCACC ACGGGCAGGTGAAC
ENSMUST00000028800.1	1	66	ENSMUSG00000027327.1	GTTCGTGCTGCTACCGCCGCTCCGCGGTGCTTCTGACCGCCT GGCCGCGGGGCTCGCCTGCA AGGGT TCCGTGCTGTCTCTGGAGC ATGGCAGGCTGCTGAGGTGAGTGGCAGTGTCAAGTAGGAGCTGCG TGCTTGCCAGTGGCAGGGAGCGTGTCC
ENSMUST00000028817.1	1	21	ENSMUSG00000027342.1	ATTAGACGGTTGCGGGCGCAG AGGGT GGTAGTTGTGCTGTAGGC CTTCGCTGCCGCTTCTGCATCGTGAATCGGGGGACCTTGGCAGCCA GACCTCGTTCCTCTTAGAGTAGCTCTCATCTAGTCGCCACAACCTCC GCCACC
ENSMUST00000037875.1	1	113	ENSMUSG00000027422.1	TCCCGCGGAGGGGGCCGTTTCGCCAGCTCCGAGGCAGAAAGTGCCA CGACTCCACACGCGCACGCGCAGCGAGCGAGCGCCGGAGCGGACG GCGGACGGGGCGGACGGCGCC AGGGT CGCAGTGTGTGAGCTGCTC AGGGGCGGCTTCTCGGTGGAGGCTCGGCCGGCTCCCCTTTGGGGT TCCGCGGCGGCGGGCGGCTGCTCTTGCCCTCTCGCTCTCCCTCT CGGCTTCCCGCTGCAGGTGGAAAGCAAGCCAGCCAAG
ENSMUST00000029005.1	1	4	ENSMUSG00000027502.1	AGGT AGGGT TTCGCCAGAGACCCCGGAAGCGACGGCTTCTCGTCTT TGCTAAGGCTTCTGGTTTTTGTACGGTTTCTGATTTCCGGCTTTGG G
ENSMUST00000029028.1	1	191	ENSMUSG00000027523.1	AGTGGAGGCACCTCTCGGAGTCTTAGACTTCAGAGTCTGAGACTTA GCGAGAGGAGCCTCGAGGAGACTCTTCTCTCTTTTACCATCC TTTTCTTTTACTTACAGCCACAAGCTGAGGCGCGGAGCTTTAGAAA GTTTCGAGTGGTTTTGAAGTCCCTTGGCAGTGGGGCCACTCTTGCA GAGCCAG AGGGT GAGTCGGCTTCTCGGTGAGCACCTAAGAGA
ENSMUST00000029270.1	1	42	ENSMUSG00000027715.1	CGTCTCTCCCGCTGCGAGCTTCTGCTCCGCGGGTGGCCCGC AGGG T CCCGGCTGCTCCGGAGCGCGGCGCTGTGCAGCTCTGCCGCC GACAGAACCAGGACCGGAGCCGCG
ENSMUST00000029431.1	1	109	ENSMUSG00000027842.1	CCCCAAGGAGACAAGGACATGAAGTAAACACCACGCTAAATGCTA CAGACCCGCACAGGAACCTCTGGAACATCGGGACAGCCTCCCGGG GACCGACGGGTACTGGG AGGGT CGTTTCTGAGTGAATCCCATTTC TCTGGCTGGAGACACAGATGGCCTCAAATGAGAGAGATGCTATATC ATGGTATCAGAAGAAGATTGGAGCATATGATCAGCAGATATGGGAA AAGTCAATCGAACAGACTCAGATTAAG
ENSMUST00000037340.1	1	450	ENSMUSG00000027942.1	CATCCACCATGTTTTCTGACGGACTCTAGCCTGGTTTTTTTTTTTT TTTTTTTTTAAATCGAAAACCATATGGAATGTTCCGGAGAGCTCCA GGGAACCTAGGTTCCCTGGCTTCCGACAGCCTGGGCTAACCGCGG AGCGCGGGGACTGTCTTAGCAGGTGTTCCCGAGAGAGAGGCGA TGGCGTCTAGTAGTAACTGGCTTCTGGAGTGAATGTCGTGCTGGT GATGGCGTACGGGAGCCTGGTATTCGTAAGTGTGTTATTTTTGTG AAGAGACAAATCATGCGCTTTGCAATGAAATCTAGAAGGGACCTC ATGTTCTGTAGGACACAATGCCCCCAAGAGATCCCGTTTCATGCT GAAGCCCGGACCCCTGTTCTTTAATGGGTAAGAATTTCCGCTCT ACTTGCTAGATCTGCGAAATACTAGCACCTCTTTCA AGGGT GTTGG CAAGCCCTCATTTGATACTCTCCTGGATGGATATGAGACAGCCGCG TATGGGACAGGGTCTTTGGCCAGAGTGAATACGATATCAAG

ENSMUST00000029554.1	1	44	ENSMUSG00000027944.1	AGGCCTTGAGTGAGCTGGCCACTGTGGTCAA GGTTGCTTTCGGCAGCGAACGCTGAGCCCTGGCTATATCCGACAG GGT AGCGTAAGCTGGTCGTGCTGTTGCCATGGGCTGCAGA GCTTCAAAGTTTCTAGTGCCCTACTGGA
ENSMUST00000029603.1	1	2	ENSMUSG00000027978.1	CG AGGGT GGGGTGGAGGTCGGACTCCGGGCTACAGAGCTCCTGGCG CTCATCGCCTCTGGCGCTCCAGCCTTTGCTTCGGGGGGCTGACCCCT TTGGGTCCCGGTGTGA
ENSMUST00000029679.1	1	2	ENSMUSG00000028044.1	AG AGGGT GGGAGCGCGTGTGCTGGGAGTTGTCTGGAGGCTCGCG CGCGGGCTGAGCGCCCTCGGACAGAGCAATC
ENSMUST00000029683.1	1	282	ENSMUSG00000028048.1	ACTTGTCTGTCTAGTCGGTTCFAAGAGCTATGATATCTGTCTGTGT TTTATTTGGTAGGTCTTCTATCCCTCCAAGGCACAGAACTTCCAC AGTCTTCTCATTTCGCTGGTCTGAGTAGCTCCAGTTTCCAAGATCT TCTGGAGAGGGCATCATGGCTCTTTGAGGGCACAGATGGAGGGAGG GCTGAAGGTTGAAATCGATGGGGGAAAAGAGTGAAGAGAGTCTTCT TTGGAGTGGGCAGCAAACTCCCTAGCAGAGTGAATGAATGCAGGAC GCCTCC AGGGT CTACGGGCACTGTCTAATCACTAATAAAGAAGTGT GCTGGTGTCT
ENSMUST00000029698.1	1	66	ENSMUSG00000028062.1	TGGGCCACCGGAAGCGACTGAGGGAGAGCAAGAGGCTGCGACTGTA GGGGTGTGTTGGTGCAGGTC AGGGT TAAGAGACGCAGGC
ENSMUST00000029700.1	1	91	ENSMUSG00000028064.1	GTGCCTGGAGGGCCGCGCCCGTTCAGCCAGGCTGAGCCTGTCTT GCCTTGCCCTGGACCCCTTCTTTGCTCGGATGGCACCCCTGATTC A GGGT TTGAACACAGGACTTCTCAGTGTGGCTGGCTCAAGGAACCAT CTGGTGACCATCTCAGGCTGACC
ENSMUST00000029723.1	1	739	ENSMUSG00000028082.1	AGCCAAGGACCCCTGTATCCATTAGAGCGGTAATCAAGAGATCTT CTCGGACTGTATTACAGAGTGAACCTTCATCGGGACAGGAGCGCTCC AGAGATCACCATCGTGGCAGCAGAGCCACTGAGGCCGGCCTCGTGG TTTCCAGGAGCTCCACCTCCAGGACTGGGATTTCCCTCCACGCTG GAGCAGGCCCTTGGAGACCAATGACTTGGTTCCCGCTGAGCTCCC GCCATCTATGAACAAGTGATAAAAGAAATCAACCAAGTCCAGGTC AATGCCACAATAACAATAACGCTGCTGCCACTCCAAGGAGCACTA TCACCTCTGCGACGCAGACGGACTTTCGGAGGACATAGACAGCGA TCCCTCCCCAACACTACAGGCGCCTCTCAAGCCTCTCCAGCCGTCA CCCGCAGCCTCAGCTGGTAACCTCCCCCAGGTGTGGACCTTTAA TCGTCTTCGATATCTGTGAAGAGCAAACCTGTCTGAAAACCCAG TGCTACAAGATGTCCAGTGCCAAGGCCAAGATCAAAAAGCAACCTC AGACCAGTAGCTAGGGATGCTAACAGTAAAGAGAAAAACAGCCAGA AAAGCCAGTGACCCCAAGAGAACTGGCCACCCCACTGTCTACT GGACAGCACCTGCAATTTAGATAGCCAGGCAATGATGAACATTTATG AACACAGAACAAAGCCAAAATATATTGTTTCCAGGATCAAAGCAT TTG AGGGT CAGACGAACACAGAAATCCCAGGACTGCCCAAGAAACC CGAGATTAATCCCCGCACGATTCCCCGAAGCCTGCTGTTTCTCA GGGAAAACCCCTAGTGGCACCCAGCCAGCTGCTAACAGAGCTTCTG GGGAATGGGACACATGGGCGGAAACAGGCTCAAGGTGACTTCCAG AGAAGGGCTCACGCCATCTCATCGCCACAAGAAGCCGGAATCACCC CCAGTAACCAAAACCTGAAATGCCCCAAGAAACCAACTCCTGGCCTTA GGGCAGCGAGCAGGGCAGCCGGTCCCAGTCCAGAGCGACCCGGAGC CTCCGCGGGACTCGAGTCTTAGCGAACCTCGAAGCATCATCCGCT CCGTCTGCGGCTTCCGGCTTCTCCGGCGCCGCGCAGGGGAGCGAG CTCGTGCATCACCCGCGCGGCGCGCTGGGGCTAAGAGCAGGGAC ACCC AGGGT GACTGACCCGTAGAACTCTTCCAGTCTGTCACAAACAGC CATGACCCACTTCAACAAGGGCCCTTCTACGGGCTCTCCGCCGAA GTTAAGAACAAG
ENSMUST00000029773.1	1	188	ENSMUSG00000028129.1	CGCGGGCCGGTCTAGCAGCGCAGGCCGGAGCTCAGGGCCCCGCG CGCCCGGCCCGCCCGCTTCTCCGCCGCGCGCAGCCATGGCG CGCCGCTGAGCCGCCCGCCCGCCCGCCCGCCCGACCCGGCTCG GGCTCCCGCGGTCCGCGCGCTCCGACGCGGAGCCCGCAGGGCA GGAGAGGCCGCGCCGATCTCC AGGGT ACCCTCAGAGGCCAGAAG A GGT GTCAGAGCCCTTGTAAGTGGAGTTTGACGGTCTGAGCTGCG CATCTTACC
ENSMUST00000029812.1	2	206,229	ENSMUSG00000028163.1	CGCGGGCTGCTGGGGAGAGGCAGCGGGTTCGCCCTGGGATGGCT TACGCTCTGGGCG AGGGT TGTGCTGGCTGGGCTCGAGGAGCCA GCTGCCGCTCTCGGGAGCGCCCTCGGAGCGTCTCGGGGGCGCT GGGCGAGCACCCGGAACATCGCCGGGTCTACAGCGCGCCCTCC CTCCCCACCCGTGTCTCCAAGTCCCTACTGCCGAGCTCTCGATG GCACCTATGAGAAGGATATAGGACC
ENSMUST00000029812.1	2	206,229	ENSMUSG00000028163.1	CGCGGGCCGGTCTAGCAGCGCAGGCCGGAGCTCAGGGCCCCGCG CGCCCGGCCCGCCCGCTTCTCCGCCGCGCGCAGCCATGGCG CGCCGCTGAGCCGCCCGCCCGCCCGCCCGCCCGACCCGGCTCG GGCTCCCGCGGTCCGCGCGCTCCGACGCGGAGCCCGCAGGGCA GGAGAGGCCGCGCCGATCTCC AGGGT ACCCTCAGAGGCCAGAAG A GGT GTCAGAGCCCTTGTAAGTGGAGTTTGACGGTCTGAGCTGCG CATCTTACC
ENSMUST00000029950.1	1	60	ENSMUSG00000028282.1	CGCGGGCTGCTGGGGAGAGGCAGCGGGTTCGCCCTGGGATGGCT TACGCTCTGGGCG AGGGT TGTGCTGGCTGGGCTCGAGGAGCCA GCTGCCGCTCTCGGGAGCGCCCTCGGAGCGTCTCGGGGGCGCT GGGCGAGCACCCGGAACATCGCCGGGTCTACAGCGCGCCCTCC CTCCCCACCCGTGTCTCCAAGTCCCTACTGCCGAGCTCTCGATG GCACCTATGAGAAGGATATAGGACC
ENSMUST00000030069.1	1	418	ENSMUSG00000028378.1	AAGTCTGGGCGCTTTGCGAAGCATTCAGAGCGGTCTCCCGGGAAG GAGTTCTGTGAGCTTGTGGTATAACAGGATGGTGCAGGCCAAGAG CTGGACCTGAAGAAGCACTTCGAAGGCTTCCCTACGGACGGTAAC TTCGAGTTGAAGACGACTGAGCTCCACCCCTTAAATAATGGAGGAG

ENSMUST0000030091.1	1	49	ENSMUSG0000028394.1	GTCTTGTGGAAGCCCTGTTCCCTCTCTGTGGATCCTTACATGAGGA GTTGCGAGCCAAAAACTGAAGGAGGGCGACAGGATGATGGGCGAGC AAGTGGCCAGGAGTCGTGGAAGTAAAACTCAGCTTTCCAAAAAG GAACGATTTAGCGGCTTTATTAGGCAGGACATCACATTCCTTTTC TGATGGGAGCCTCACTGCCTACTTTGGCCTGCTTGACATCTGTGGC GTGA AGGGT GGAGAACCCTG
ENSMUST0000030121.1	2	123,1092	ENSMUSG0000028413.1	AGCGACGCGGGAAGTCCAGACACCAGAAGTGTCTGGAGACCTGAGC AG AGGGT CGGGCCCCAGCGGAGGCA GGATCCACAAGTTTGTGTATCAGCTTATAGATAATAGAACCAC ACCTAAGGAACATAGACATAAAAGAGCCGACAGGACCACAGCCTCA GGACCTCACCAAGGAGGCGAGGGGCCAGAG AGGGT CGGTTCAGGAA GTCACCTGATGAGCAGTATACTTTCTTTCTTTCTTTCTTTT TTTTTTTTTTTGGTTTGTTTTGTCTTTTGTTTTTCGAGACAGGTTT TTTTTCTGTGTAGCCCTGGCTGTCTGGAACCTCACTCTGTAGAACA GGCTGGCCTCGAATCAGAAATGCACCTGCCTCCCAAGTGGTTT TTTTTTTAAATACTTTCTATGATTGCAACCAATGTCACTCAGCC TGCTTCTCATCGAATGAAATCGGAGACAGTTAACAAACCCATATFACA TGGCATATATTGGTTAACAACTCTCCAAACATAGGAGTAGCT AGAATTAGCATTCCCCATCTTAAGTTCTCATCACATTCAAGGATA AATGGGTCTGAGGCCCTCGGGTCAAGACTTCAAGTGTAAATCTT CCAGCTTCCACTTTTCAGATCAACAAGTTAGGTAAGGACAGGCA GTGACAAAGTTTGTAGGAGCCCTGAGTTCCACAGCTTATCAGCTGT GAGATTTTACAGGCATTCTATTCTTATTCACTCCAAGGCACTGAAA TCTTTGTTTACTACATAGTCTGGGCTGGCTCCAACTCTGGCTCTT CCTGTCTCCGCAACCAGAGTCTGGGATTACAGGTGTTACACGCGC GCCTAGATTCCAGTATTCTGTAAATGGGACTGTGTTCCAGCGCT GTGTACAACGGCTGTCTGTACGACAGGCTTAGGAATTAATGCAGT TTTCTGCCAGTCTCATCCCAACAAGCATGTGTCTCATCTCATGTGGC ATGCACTAGAGGCCATGTTGCACCTAGAACCAAGTTGGGACAGTTC CTGAGGTTTCCCAATCCTGCAAACTTATGTGGGAGTAAGAGTAG GGGAGGCTGCCAG AGGGT TTGTCTACTGCTGTGCTCCTCCGCTCA GCGAGTCCAGCCCCGGCTTAGTCCGTGCGCTGCCTTCTCATAGCC GTTACCCCTCAGGCCGCCACAGCCGCCACCGGGAGAGGCGCGGCC GGCAGGCGAGTCCCCGCGTGC AGGGT GTCGAGGACGGGCTGCT GGGCAAGTGCAGCGGCTGCGCTTGGCCACCGCCAAAGCC
ENSMUST0000030164.1	1	13	ENSMUSG0000028452.1	TTTTACC
ENSMUST0000030252.1	1	23	ENSMUSG0000028527.1	TTTTACC
ENSMUST0000030339.1	1	18	ENSMUSG0000028602.1	TTTTACC
ENSMUST0000030372.1	1	190	ENSMUSG0000028626.1	AAGGACCCAGACAAGCTTGCCCGGGAAAGGATGGGGCTGAGGGCC AGGAGGAAGGCTTTGATCTTGGAGGCAAGGAGGAAAGGACTTCGA ATGGACTTCTGCTCTTACACAGAAAGTAGTCCCGTACCCGATGAT GCCCCCGGGACTTCCAGCTGGGGCGTCTGGTCAAACCTCAGAATGC AGACCC AGGGT GGGCACAGAAGATCCGCCCTGACCGGGCGGAGCT GGACAGTTCTCCACAGTGTCTCAGGTGACAGGCTGCAGGTC CCCCCGCGCCGCTTAGCTGCGTTTTTCGGGAGATCCAGTCCGAG GCTCCGAAAGCAGCCCCGCCATCGGTGCTTGAGCCCCCGCTCCAG AACCCGCTGTTCGCC
ENSMUST0000030543.1	1	123	ENSMUSG0000028760.1	GAAGAAAACAAAAGAGCAGACCCGAACCCAGATGAAGTGTAGAA GCAGAGGCAGAGCCTAAAGCCGAAGAAGAGCTTGCAGTTGACAGTG TCCTTGAGCCTGAGCAAGAGAAGATGAGCCA AGGGT TTCCGTCTGA GAGAGACCCCTCTGCCCTGAAGAGAGGGAAAGCTGAGGAAGGAAAC GGAGAAGAGGCTGAGCCTGTGCGAAATGGCGCTGAGAGTGTCTCTG AGGGGAAGGGGAGATGGCAACTCAGGCTCTGCTGACAGCTCTGC TGATGGGCTCACCTTCCCGTTTAAAGCAGAGTCTTGAAGCCTGCA GATACAGAAGGCAAGAAGCAGTATGACCGGGAGTTCCTACTGGACA TCCAGTTTATGCCCGCTGTATCCAAAAACCAGAAGGCCCTGCCTCC CATCAGCGACGTGGTCTTGACAAGATCAACCAGCCAGATTTGTCA ATGCGGACCCCTGGATCCTCGCATTTGCTCGAGGACCTGACTTCA CCCCAGCCTTGTGCACTTTCCAAGGCAACCGCTGGTGGAAAGAGG TGTGCTCTGTGAATGTTGGACCTCGGAGGTCTCAACTGGCCAG AGAAGGGAGCCAGAAAGATAATCACTGTCTCCGTAAGAAAGATG TGCACTTGAGAAAGCGGAGAATGCTTGAAGCCGAGCCAGAAACG GGACAGCCACGCGATGACCCGAAAGCATTAAACTCAGGAAGCTT TTCAGAAAAGTTCGAAGTATCTTGAATAAACTGACACACAGATGT TCAACCAGCTGATGAAGCAAGTGTGGCTCTTACGGTGGACACGGA AGGCGGCTAAAAGGGGTATCGACCTTGTCTTGAAGAGGCTATC GATGAGCCAGCTTCTCTGTGGCTACGCAACATGTGTGGTGGCC TAGTAACG
ENSMUST0000030551.1	1	172	ENSMUSG0000028766.1	CGCCAGAGTACGCTCCCGCCACTGCGCTCCTTAGGGCTGCGCGCTCG CGAGCCGGAACAGACCCCTCCACGAGTGCCTGCAGGATCGGAACG TCAATTAACGTCAATTAACATCTGACGCTGCCCGCCCCCTCTT

ENSMUST0000030586.1	1	29	ENSMUSG00000028795.1	CCCACCATCTGGGCTCCAGCGAGGGACGAATCTC AGGGT ACACC GCTCCAGTTCCTCCCTGAGGAGAGAGAAAGC AGGGT GAGGGAGATTG CAAAGAAGCACTGTTTCACACTCCAGACCCCAAACCTCCAGACCTG AGGTCCAACACACCACCCA
ENSMUST0000030729.1	1	91	ENSMUSG00000028894.1	CGGAGGTGTCTGCAGGCCACCGGTGACAGCTCGGGAGCCCCCG AAGCAGCTCTAATACGGAATGGGAGGTTCCACCTGCCCTACCCCA GGGT TTGACAGCTCAGCATGGACCAGTCTGTGGCAATCCAGGAGAC CCTGGTTGAGGGGGAATACTGCGTCATCGCAGTCCAAGGTGTGCTG TGTAAGGGAGATAGCCGGCAGAGCCGCTGCTCGGGCTGGTGAGGT ACCGGCTGGAAAATGACGCCAGGAGCATGCTCTCTTCTGTATAC ACACCGGAGGATGGCCATCACAGGAGACGATGTATCTCTGGACCAG ATAGTGCCACTCTCAAAAGATTTTATGCTGGAAGAAGTGTCCCCAG ATGGTGAACCTACATCTTGGCTCTGATGTGACAGTACAATTGAA CACAGCTGAACTCAGCTTGTATTCCAACCTCCCTTTGGTTCCACAC ACCAGAACGTTCTCCAGGAAGTGGCCAGAGCCTGTCCAGGTTTCG ACCCTGAGACGCGGGATCCCGAGTTCGAGTGGCTGTCAAGACACAC ATGCGCGGAGCCCGATGCCGAGTCCGCGAAACCGCGAGTGGAAAT TCCGACCCGGGTACCCGGAGTGGGTTCCGCGCCATTGGAGAACGA GGCATCAGTCTCGGAATGCACGGCGAGGATTGGAGGATGTCTTGCC TAGGGCCCTGGCTACATTTCTGCTTTGGGGCGGAGCCGCTGAGGAG CCGGAATTTCTATTGGCGGAGGAG
ENSMUST0000054917.1	2	1482,2018	ENSMUSG00000028906.1	GAACTTTATGGAATCGGTACCCGAACCACGGCCAGCGAGTGGGAC AAGCGCTTATCTACACACTCACCTTCCGGACTCTTAACATCAACG GGCAAGTCCCTACTGGAGATGGAAGTGTAAATGGCATTGGAACAGA GGAGGTGGCTACCGTGACAAAAGGGCCATCCACCTACCCTGCCTCT GAATGGGAGTGCSCCAAACAGTCAGTAGTTCTTAGTCAGAGCTGGA TGACCACTCCGCGGCGTCTCCACAGAGCTTTGGTTCTGGCTCCCT CTCCATAAACAGCAAGGAGCGGAAGAGAAGGAGCAGGGGGCAGCT GGCTATCTTGATGCTGAAGAGATGCCAACAGGCCCAAGTGGGGAAAT GCTTAGGAGTGGAGGAACAGGCCAGTGCATTCAGTTTCCAGTAAC TCCAGCTTCCCTGCCAGCTGCAACTCGGTGGGAAAAGGCAGACAGT AGCGAAGAGTGGGTGCAGCAGCAGAGACCCTTGAGACCCAGAGCG GATCCTTTCTTGACTCACCTGTGGGTAACCAGTTCCCCACCCTCAT TCGAAGTTTCCAGCCTCCTCTGGTAAAGACTCAAATGTCACCATC TCAGATACTGCCAATGCTGTGAAAAGTGAATCCCAACCAAAGATG TCCCTATTGTCCACACTGAGACCAAGACCATCACCTATGAAGTGC CCAGACTGAGGACAGCAATGGGGACTTAGACCCCTGGAGTCTTGTCTG ACAGCCAGACCATCACATCCGAGACCACAAGTAGTACAACACGGA CACAGATTACCAAGACTGTAAAAGGTGGGATTTCTGAGACCCGGAT CGAGAAGAGAATTGTGATCAGAGGAGATGCCGATATCGACCATGAT CAGGTCCCTGTACAGCCATCAAGGAAGCCAAGGAGCAGCATCCAG ACATGTCAGTGACCAAGGTGGTCTCCACCAGGAGACAGAGATCTC TGAGGAGTGAAGTCAAGGACTGTCTGCCCCACCCCACTGTGCC
ENSMUST0000053819.1	2	810,864	ENSMUSG00000028911.1	GAGGAGAGTAGTCAGAGATGATTGCAAGGTTGTTGGGAGTGAATCA GGTGTGTCAGGGGTTCTGGAAGAGAGAAAATCATGAGGTAGGTTTCT TCTTTGAAGGTGGGAAAGATCAAGTGCAGACTGAGCTGTGGCCAA CCGTTGTCAGACCAGGAATCCACACTAGCTCTAATGAGAGAGCTCT TGGTGTGCGGGAACAGTCCAGTTTGGCCAGCTGAAAAGTCCCAGGC TGGGTAATGTTGAGCCCTGAAGTCCGACCCAGCTCTGCCACTGAG TGAGCACGGGTAAGTCTTCCACCTTCTCTGGGTGGCCTTGATGGCC CTCCCTCTGAGACTAAAGAAAAGGGAGGGCAGAAAAGCCAGA GCAGCCTCCTTCTGTCTCAGAATAGGAAAAGGTCTCAGGAACCTG CTCCTGGAGCAGCAGCTTGCCACTGTGGCTTGTAAACTCCCTCAGT CACTGCGGAAGCCAGCTCACATCCATGGCCATTAAGGTTAAGCAGT TAATGTGCTTTGAGGGCCTGACTGCTGGTGGCCCTGGGATGCTGCAG ACCTGTGGAATCAGGGCCATTGCACTGTTCTCATTCACAAGCTTCT ACAAGTTAGCATCACCTGAGCACGAGAGTTGGCTGTAGAACTGTCT TAGTTCTACAGGTTTCTGTGCACCTGATGCAGCACTCGAGAATTAC TCTCTACTGTCTGTCATATGCCCTTTTCACTCTTAAGACCCAA GTTGGTTGAAGCCTAGGATCTACTGAGTGTCTTGAAGCTGTTTGA TTCCCTGTTCACTGAATACCATTTCTTT AGGGT AGATTAAAGGCT CTGCCCTCAAATAACAATGCTACTGGCTTAGATT AGGGT TCAAG CCACCTGTGGGTTTACTTCAACAGATGAAAATTTTCTCTGAGCATA CAGCAACATCCCTAATCTGACCAGCCATGGAGAGGTTCCGGTCTT ACAAGGAAAATGAGTGAATGTGGGA
ENSMUST0000062981.1	1	41	ENSMUSG00000028937.1	AGAGCTCTTCCCTAACAACTTCCCTTTGGCTGCAGCTTCTGC AGGGT GACGACAGACAGAAAGGAC
ENSMUST0000059610.1	4	1,80,245,32 1	ENSMUSG00000028960.1	GAGGTC CACGTGACCCCTTCAAGATGGCCGCCCTGTGTTTGA TGAATAAATTTGTTGGTGGGGCGAGGGGTAAAGAT AGGGT TGGAGGG GTAGGAGGATTTACGCTTCCAGCGAGGGCTTCGCCAGTCCCGTCCC

ENSMUST00000030801.1	4	119,198,36 3,439	ENSMUSG00000028960.1	<p>TCCCCGCCCCCACCGGGTTCCTCGCGTGGAGGCGGGGCGAGCCT GGCCTGCTTTAGAGGGGAGGGGCTTCCCGGTCCGGTGCCTGGGCTC TGCCCTGGGCTGCTGTAGGGTCGCCGCGCCTCGGGGGCATCCAGTGT GCAGTGGAGCTGTTCCCGCTGGGCCAGGGGTGGGACCCGGAGCA GGGTCTGCGGGAGAAAAAACGCAGCTGCCGCGTCACCGCCACGAA GACACGGCGCGCAGCGGGCACGAGCCGAGCTGGAGACCGCGCCGCC CGCCCTGGGTAACCTGGGAAGCTGAGGGGAGTCACTGGCGCCTGGA GAGGACCCATAGCGGTGGCCGTGGCCAGAGGGCGCAGCTCTGGGC GCTTGTCTGCTGGAGGAGCTGCGGCGGTGCGAGCGGCCGAAGCCAA GGCGATTAGTGCCTCGTGTCTTAGTTTAACTCTGACTATGC AATTCTGAAACCTCCCCATTGGGGGACCAGACAGCCCGATAGATA CCTTCCACTCTTCTTTGCTCCCGCCCTGGTCTCAAGAACTGAAGG ATCTCTTAACGCCCTTACCATTAAGAGGAAAGCG</p> <p>GGAAGAGGGGTGGGGCAGGGGCGGGGACAGGATGCAAGCGAAGA GGAATCGGCGGGCGCAGCGCCCGCTGCTTATTGGCTGGCGAATCCC AGAGCGAGAAGCCCGCCTCCCGGGCAGGGTCACGTGACCCCTTT CAAAGATGGCGCCCTGTTGTTTTGATGAATAATTCTTGGTGGGGC GAGGGGTAAAGATAGGGTTGGAGGGTAGGAGGATTTACGCTTCC AGCGAGGGCTTCGCCAGTCCCGTCCCTCCCTGCCCCCACCGGGG TTCTCGCGTGGAGGCGGGCGAGCCTGGCCTGCTTTTAGAGGGAG GGGCTTCCCGTCCGGTGCCTGGGCTCTGCTGGGCTGCTGTAGGGT CGCCGCGCCTCGGGGACATCCAGTGTGCAGTGGAGCTGTTCCCGCC TGGGCCCAGGGGTGGGACCCGGAGCAGGGTCTGCGGGAGAAAAAAA CGAGCTGCGCGCTACCGCCACGAAGACACGGCGCGCAGCGGGCA CGAGCCGAGCTGGAGACCGCGCCCGCCCTGGGTAACCTGGGAA GCTGAGGGGAGTCACTGGCGCCTGGAGAGGACCCATAGCGGTGGC CGTGGCCAGAGGCGCGAGCTCTGGCGCTTGTCTGGAGGAGGCT CGCGCGTGGAGCGGGCGAAGCCAAGGCGATTCACTGCCTCGTGT TCTTAGTTTAACTCTGACTATGCAATTCTGAAACCTCCCCAT TGGGGGACCAGACAGCCCGATAGATACCTTCCACTCTTCTTTGCT CCCGCCCTGGTCTCAAGAACTGAAGGATCTCTTAACGCCCTTTCAC CATTAAGAGGAAAGCG</p>
ENSMUST00000030810.1	1	55	ENSMUSG00000028962.1	<p>GGAGCGGCGGGGGCGCCCGGGTGGGCACCGGAAATCGTCCG GAGCGCGCGAGGGTTCCGGAGGATCAGGGGAGACCCGGAGACCC GGGACACGAAATCTAGAGCTAGCGGTTATGCCCTCCACCTGTGTGC CCTGAAAGCCGAAGCGACAGCGAGAAGGGCTAAGATTTGGCC</p>
ENSMUST00000030830.1	1	59	ENSMUSG00000028980.1	<p>AGAGCTTCATCTGGAAGTGTGGTCCCCAGATTGGCCATGAGGGGA CCAAATGCAGACAGGGTTGACTGACACCAGGTTGTGTCTTTGCC TGACTGGCACACAGGCATTTGGAAG</p>
ENSMUST00000030886.1	1	103	ENSMUSG00000029022.1	<p>GATCTCGGGACCACAGAGGCGTGCCTTCGTTCCCGCTAGACCGGTAG AGAAGGGGCAAGCGCCTAGGCCCCGGTGTGCACCTGCCTGAGTGC GCGTGGAACTAGGGTCAGCACCTCTGCAGCCCAGAGACAGTGACA TTACTGTGAGAAGCCGCATGCCCAAT</p>
ENSMUST00000030938.1	1	86	ENSMUSG00000029062.1	<p>CCGGGCGCTGTTCTTCCAGACTCCAGGACCGGCTGCGGGCGCTG TAGCGGCGCAGGGGTGAGTAGCGGCGCGGGGGTTTCGGAGCAGGGTT TACGGCGCCCTGAAGAATCGCGGCTGGCGACACGCTGCTGCCGCG GAGCAGTCTCGCTCCACACGGAGCTGAGGGCGGTGGAGGCGGACGG CCTGGCGGCCCCCGAGCCGGCCCTTGCCTCAGGTTTGGCTGACTG AACCTCAGAAGTGGGACCCCGCCCGGAGTCCCGCGCTTGACAGT GCACCTTGATCTTACCTGTACCCAGGCGCTCCCGCGCTCTGGAGC TTTCTCATAACAACCTTTTGACACCTAAGGCAGAGTGTGTGAGTGC GAGGCACTGAAATGACCTGGATGGTCTTTCATCTAGAACAGTACC GTTACGTGGATGATGATGGTTGCGTTTTACGGAAAACACTGAGGTA AACTAAGTTACCCAAAACCTTACAGGAATGACAGAAACGACAGTGT ATTCAGGCAGAATCCTTCCGACCTACCGGACTTACTCTGAAACAC TAACGATTAGACTTAAGTGTTCGGAAAAGACAGACCGACAGACCGA CCGTAGCTTTCTGTGTCCCGAGGTTGCTTGAATGTTTTCTTTTT GCAGTGTTTTAACTCAA</p>
ENSMUST00000030987.1	1	100	ENSMUSG00000029104.1	<p>GGCTGAGCGCCTTGGTTCGGCTTCTGCCTGCCGCGAGAGCCCCAT TCATTCCTTGTCTGCTAAGTGGCGCCCGGTAGTGCCAGTAGGCTCC AAGTCTTAGGGTCTGTCCCATCGGGCAGGAAGCCGTC</p>
ENSMUST00000031024.1	3	322,1563,2 040	ENSMUSG00000029142.1	<p>GTCGCTGAGGCGCGGCGAGGGCTGCGGCGTGGAGCCGAGGCGG TGACCCGAGGTCCCGAGGTGGAGCCCGGAGGGGTGGAGGACCTGG CGCGCGGCTGCCACCCCGCGCGCCCTCCGGTCTGGTGAAG CGGGCGGAGCCCGTCCCGCTTGCAGGGGTGTCGAAGAAATGTC TACTGGCGCTGTGGTATTACCCGCTGCCTGGCTCCTGGCTGACA TCCTGATTAGAGTTAGCATCTCAGGCGACTTTGCTGCAGTCTGTAA AGTTCAAACAAGAGCTGTGTTGCAGTACAAATATTTACTATATAGA AGGGTGGGGATAGAGCAGATATTACTTAGAACGATGTTAAGATGGC AGACAACCTGTTGATTATACCAAGACAACAACAACAACAACATTC</p>

ENSMUST00000031032.1	1	77	ENSMUSG00000029147.1	ATAATTGTGTGGGCCAGACTCACACCAGGAAAAAGTTATTTTAGTG TAAAGTGGGGAATACTTTTAAAGTGTTTTGGTTACAACCTAATGTT GATAAGCACCTTCCAATGAAAAAATAACAACCTTATCTTTTCTT TCTTCCAACCTTTACACACACAAGTTGCCAAGAGCAAGTCAAAGTA AGTAAGGTTTTGTTTTATTTGGCCAGTGTGGGTTTGATCTCCC AAGAGTTGATCTGGGGTATTTATTTGGTTAATTTTGGTTGATGT GAGCACCTTGGGGGAAAAGTCCTTTGGTGGTGCACCATTTGACAGT TCGATCCTGGGTTCAGATACATAAGCTGAGAATGCATCTGATATA CCAAAACCACAGATCATGTCGCTTAGCAACCCCTGCTTCTCTTCCC TTTGTGGCTGGTAGGAAGCCGAGGTACCCGTTACTAATCGGGGAAG AGAGCACAGTGGGAAATGTGGCTCTTTGCAAAGCAGTGCAATTTGCA CTGGGTAACCTGAGGATGTAAGTTGAGGACTGTGCTGTCTCCCTTC TGTCACAGGAGTATTCACAGCCTTTGTGTAAGGAACTTTGCTTC GCACCTTGCCTGACTGCGCAGCCGGGCCCGCTCTTGCACGCGC GCCCCAGGGGCCCGGCTCCGGCCGGCA AGGGT CGCGTCCCGC TTACTGTTCCTCAGGTAGCCAGCCATCCGCCGCC
ENSMUST00000052121.1	1	396	ENSMUSG00000029199.1	AAGCGACGAGTTGTTGGACGCGTCCGGTCCGGGGGTGCTGTTCCC TCGATCCTTGGACTCCTGAGACCTAAAAGAGGGGGATGGCTCTA CGCTGCTGGGATACAGCTCGCAGCTGGGGTCCCGGTGAGCGCGC GGAACGCCATTTGCTTATCCTAAGTTCAAACCTAGGGAAATTTGTTCC AGATATCCTTTTAAAGCCCGACAGCTGTGGCATATCTTAAT TATTGCAAACCTGTTGACAAACATATTTAGTACCTGTTTAGGAAT AGAAGACATGAAAACGTGGCATGTTAAGTCACCCACTAAGGTTTTC TAACCTATATTTAGCGGTTAACTTTGATCTGCGTCCCCTTTTTC CCCCATTTGTCATGGCTGAGCGTGCAT AGGGT CTCTGTAATCTAG GCTGGCCTGAAACTAAATTTCTAGACCAAAGACGACTCCTCACTCT GCCTCCTCTGAGAGCTGCATACGTTTGGAGCCGCGGTGACTTAC GGTCTTTCACCTTGAGTCTTTTTCAGGTTCTGATCTACGTAGTTT GAGCTCTTAAATCGTTTACATAATTTCTGAATCAATTTCTTTAGC TTTGGTATTATAATGGGTTAAAACATAATTTTTCAGAGTCTACTG AGTGAATGTTGTACTGAACCCTTTGTGTAG
ENSMUST00000031105.1	1	14	ENSMUSG00000029203.1	GGAACGCGACGGCC AGGGT GGCAGTGGCAGCGTTCGTTGCTCGGG TCTGAATCGCTGAGGGAGGAGGCCGGCGGAGGAAGAGGTGGCAG CGGTGGCGGTGGTTCGTAGCGGTGGCGGAGGAGCGGGTACGAATCA GCTGCGGGCAGAGAC
ENSMUST00000031136.1	1	6	ENSMUSG00000029227.1	CTCTT AGGGT CGCCGCCCTCCACCAGGTTGGCCCCAGATTTGAGT CTCGCGCTCTTCGTTTCGCTTACCGCGCGCTTCCCTCCCATTCTCGC GCCCTGGGACGGCGAGGCTGGAAAAGGGGTTGAGAGAGCTGTTGG CGCCGCCCTTAACTTGTGCGTGGGGCGGCC
ENSMUST00000031137.1	1	0	ENSMUSG00000029227.1	AGGGT CGCCGCCCTCCACCAGGTTGGCCCCAGATTTGAGTCTCGCG CTCTTCGTTTCGCTTACCGCGCGCTTCCCTCCCATTCTCGCGCCCTG GGACGGCGAGGCTGGAAAAGGGGTTGAGAGAGCTGTTGGCCGCC CCTTAACTTGTGCGTGGGGCGGCC
ENSMUST00000031190.1	1	414	ENSMUSG00000029265.1	GCAAAGCGTCCGGGATCAGCTTCCGGCAAACCTCCTTCCCCGGCC CGTAGAGAGACCACCGTTAGCGCGCTCCTGCTCGCACAGCCTGCT CTCGCCACACGCTTGGCCGCTGCGGCTCCCGCAGTGTTCGGCCCC GTCCACTTGGTTTCCAGGCAGCCGGCGTGCCTCAGTTCGGGCTT CGGCAGACATGTTGTGAGGCGGCGCGGGTGCCTGAAGATGGT TTGGCCGAGGCGGCTGCAACCGCTGCTGGTGGCGGCGTCTCGGGG GCTCCGGCTCTGTAGAGCTGACCCCTGCTCAGTGTCCGCCCGGGACC GCGGCCGGGCGGTTATCTCTGCTTTCGCTGCGCTCCCGTGCCTG TTAGGTTCCGTTAGACGACAGCGCCAGTCCGTTTGGAGCGACACGC AGGGT GGTTCTCCAGCCCTGGGAGTGGTGTCCCTAGAACCCTCAGC CCCCTGACCTTTCCTTCAATTTCCCACTAAAATCTCTCACACAGTG GGTGTTCCTTGCCTCCAGCCCTCCTTCTGGTTTCTGCACCTCTCT TCTCTGAGCTTCCCGGACCCCAACATCCCTCTCCAGGGACAGCCTG TTGAGAAATCTTCGTGGAGTGGTGGACCAGAGGCGAGGAGTTTAAA AGTTGGGGCTTGAAGACAGGAAGATACG
ENSMUST00000002832.1	1	392	ENSMUSG00000029267.1	CCGCTAGTCCCGGGAAACAAAATGGCGAAGGGCTGTTGCGAAGT GGTCTGTGTTGAGGCGGTGTGAGCACGCACATTTCTCTTCTTAA CCCTCGTCCCAAGGAACCTCGGTGTGTGTGCGTGTGCGAGGGC TCCCCTGGGGCGGTTGCCAGGGAGTCCCGGACTCGCGGGGGAG CGCCACGGGAACGAGATGCTTCTATTTTCTGTATGAAGCGGTT GGCACCACTTAAGTGACCGAATGAGAGACTTACAGGAGCAGGTAA TTCACCTGGTCCACAAGCGTCTCCTTTACGTCGAAACCAAAGACC TCAGCATCCTTGAACAAGCTGCTTTTACAGGATGGACATAAAGCCA AAAAACCAGCATGTAATTTGAAC AGGGT CAAGATGCTCTAGCTAG ATGGTCAGATGGCTTGTTTATCTTGGAACTATCAAAAAGATAAAC ATATTGAAACAGAGCTGCTTTCATCATATTTGAGGACAGTTCCAAAT CCTGGGTTCTTGGAAAGACATCCAACAGGAGCCACTGGGAGTGG

GGAA

ENSMUST00000031328.1	1	516	ENSMUSG00000029381.1	<p>GGGACGTCACTGTGAACGCAGTGGGTAGACCCCACTCAGGACTTCC GCTGAATTCAGCGGGTGTAGTGGGAGAAGCATCCCGGGGAGCCG CAGGCTTCGCTGTCCCGACTGAGTTTATCTTGGCCTGAGGGCAGCG TGCTGAGCGATCTAACCCAGCAGGAAGTCTCTTGGCTCCATCT GGGTCAAGCACTTTAAACCGAAGCCGACTTGACCATGCCTCTGGCG CGATGAAGACTCCCGAGAACTTGAGAGGAGCCTAGCGCCACGCCAAA CCCCAGTAGGACCCACGGAGAGATTCGTTTATCTGGAAGCGCTC CTAGAGGGAGGGGCTCCCTGGGGCTTCACCTGAAAGGTGGCCTGG AGCGTGGAGAACCCTTAATCATTTTCCAAGATTGAAGAAGGGGGCAA AGCCGACTCAGTGAAGCTCCGGACTGCAAGCTGGGGACGAAGTCATA CACATCAATGAGGTGGCGCTGAGCAGTTCAGGAGAGAGGCTGTCT CCCTAGTGAAAGGGTCTCAACAAGACCCTGCGGCTGGTGGTGCCGAG A</p>
ENSMUST00000031341.1	1	119	ENSMUSG00000029394.1	<p>GGTCCGGCCCCGGCCAGCACCGACCGGCTGGGCTCAAAGTTTGGC GCCGCCCTGCGCCGCGCGCCGATGTATGGGTGATCTACTGCGGC GGCGCGCGGGCGGGCGGGCGGGCGGCAGGGTGAGGGACGGCCATA TTTGGCGCGCGGGCCGAGCCGGCGACAACAAAAGTGCAGCCGCT CCCGCGGGCGCTCGGACGGCTGCGGGGACGTGGGGCCCGCCGGCC CGGGCTCGGCTCGGCTCGCCGGCGGCTCGTGCCCTGGCCCGG CTCTGCCCGCGCGCCCGCCCGCCGGGGATGTCGTACAAGCCGA ACTTGACCGCGCATGCCCCGCCGCCCTCAACGCCGGAAGTGT CCACTACCTCTACTAGC</p>
ENSMUST00000031426.1	1	46	ENSMUSG00000029469.1	<p>CCAAGGAGCGGTCTCTAAGAACCAGCAAGCGCCCACTGCCTCCCG AGGGTGGGGAGGTGGTTTCTGTGAGGAGGATTTGAGTTTAAAGCTAT AACATTAATC</p>
ENSMUST00000031528.1	1	272	ENSMUSG00000029552.1	<p>GCGGCGCGGAGTTCCCGCAGCGGAGATCGCGGACGCGGGACTGAG CCCCCAGCGCCAGTATGGACCTGGAAACAAAATGAAGAAGTG GAACATATGGACACCAACAAAGGTGATTTATGGGAAATACTTCGAGC TGTGCCTGGCAGTGCAGATGCTTGTGCTGTTCCTCACTACAATCC TTGTAGACCCATTCCTGTGAAAGCAGTGGACGTTTGGGGGGCAGG ATACTATGTATATAACAGGAATCTCTGCTCTGGATCAAGAGGG TCACTGAATGTTGCCAGCATATCTGGTTCTTGACATGATTATG GAGAAATGGTGCCACTTCCATTCTAACTCTAAACTAAACAGAGA GAAGAAGCAGGGGCTTGGAGACTCGGGTCATGGAAATATGGGCTTA GGTCATGAGCAAGGATTTGGAGCCCCGTCTAAAATGCAAGAGA ACTGT</p>
ENSMUST00000031544.1	1	137	ENSMUSG00000029562.1	<p>GCGGCGGAGCCGGGTGAGAAGCAGCGCGGGCCCATGCAGGACGCTG AGAAGCTGGCGGTGCCGAGGCGGCCGAGGAGCGGGCTGAGCCCGC GAGGAGCAGCCGGCTCCGAGTCGCCGCGCAGCGACGAGCGGGCA GGGTCTGGGGGTCCGAAGTGGGCGAGCGGAAGACGCCGAAGAAG ACGCCGAGGCGGACCGGAGCCGAAAGTGAAGGCAAGCCGGCGGC CCAATCCGAAGAGGAAACGGCGACGAGTCCGGCCGCCCTCGCCACG CCGAGTCGGCGGAGCGGTCCCGTCGCAAGGAGCCCTCTGCTCCCG GGAAGGCAGAGGCCGTGGCGAGCAGGCCCGGGGACCCCTCGGC TGGAGCGGAGGAGGAGGGCGGGTCTGATGGGAGCGCGCTGAGGCG GAGCCGCGGGCTCTGGAGAACGGAGAGGAGATGAGCCCTCCTTCA GCGACCCGAGGATTTCTGTAGACAGCTGAGCGAGGAAGAACTACT TGGTGTGTACTC</p>
ENSMUST00000053600.1	1	992	ENSMUSG00000029613.1	<p>AATGGGTGTTCCAGGAGACGCTCTTTTCCCGAGAGCGGCAGCGCC AACTCTCCCGCGGTGACTGTGACTGGAGGAGTCTGCATCCATGGA GCAAACCGAAGCGTGAGGTACAGAATGTGCTAAGGCCATCAAGCC TATTGATGGGAAGTCAAGTCCATCAAATTTGTTCTGGGCAGGTGGTA CTCAGTTTAAACACCGCTGTGAAGGAGTTGATAGAAAATAGTGTAG ATGCTGGTGTACTACTATTTGGATCTAAGGCTTAAAGACTATGGGG TGGACCTCATGAAAGTTTACAGACAATGGATGTGGGGTAGAAGAAGA AAACTTTGAAGGTCTAGGCTCTGAAACATCACACATCTAAGATTCA AGAGTTTGGCGACCTCACGAGGTTGAAACTTTTGGCTTTCGGGGG GAAGCTCTGAGCTCTCTGTGTGACTAAGGTGATGTCACTATATCT ACCTCCACGGGCTCGCAAGCGTTGGGACTCGACTGGTGTGACC ATAATGGGAAAATCACCCAGAAAACCTCCTACCCCGACCTAAAGG AACCACAGTCAAGTGCAGCACTTATTTTATACACTACCGTGGCT TACAAAGAGTTTACAGGAAACATTAAGGAGGATGCAAAAATG GTGCAGGCTTACAGGCGTACTGTATCATCTCAGCAGGCGCTGGT TAAGTGCACATAATCAGCTCGGACAGGGGAAGCGGCAGCCTGTGGT GTGACAAGCGGCAGCTCTGGCATGAAGGAAAATATCGGGTCTGTG TTTGGCCAGAAGCAGGTTGCAAAGCCTCATCTCTTTGTTTCAAGT CCCCAGTACGCTGTGTGTAAGAGTACGGCTGAGCCTGAGCATAAGGA CGCCAAAACCTTTTCTAGCGTTTCGGGCTTCATTTTCAAGTGC CGCACGGCGCGGAGGAGTGCAACAGACAGGAGTTTCTTCTCAT</p>

ENSMUST0000031640.1	1	84	ENSMUSG00000029635.1	<p>CAATCAGAGGCCCTGTGACCCAGCAAAGGGTCTCTAAGCTTGTCAA</p> <p>TTTAATAACAAATATTTATTTGTGATTTTTTTTTCTCTTAGTGTAT</p> <p>AGAACAAATACTGGCAAGTTTATGGAACAGAGTAGCAAGGGTAGG</p> <p>CTGACATGTGATTAGGTGTCGAGCCAGAAGGCCACGGGTGTAGCC</p> <p>GGAGCTTGAGCACTCCTATGAGAGCCAGTCTTAGAAAAGCTCTCAAA</p> <p>GTAATCTTTGTTAGCATTTCTGAGACTAGGAGCCTAGGCAACATAA</p> <p>ACATTTATCAATGTATTTACAGATAAAGATTTGGGAAGATATAAAA</p> <p>AAGATGCCCGAACATTTCAACATTAATGAAAAGATTTCAGAAGAAATA</p> <p>CGTATACCAATTCAGCCTTATCAAGTATATGGAAAAGCATAAAGT</p> <p>TAAACCCGATAGTAAAGCATTCCACTTGCCTCAGAAGTTGCTCACT</p>
ENSMUST0000031664.1	1	57	ENSMUSG00000029657.1	<p>GCTGCGTGAGAGAGCGGGCGGGAGAGCGGTGGCAGAGACTGAG</p> <p>CGCAGTCTTGCAGGGTAAGCCGGAGGCATCTTCCCAGCTGGTCGGG</p> <p>AGCAGGACGAGCACCGCAGCGGACCCGAGCGGAGGCGGACCGGGCC</p> <p>AGCC</p>
ENSMUST0000006301.1	4	479,899,12 13,1683	ENSMUSG00000029703.1	<p>AGCGACCGGACTTCTGTGAGGCGCGGGTTCGGTTGAGCCCTCGGCC</p> <p>ACCCATGGCTCCTCTCACGCGCAACTGCTCCTGCAACGTGGGGGA</p> <p>CCCAAGACGGATAAGCTGGGGAAGATTCAGAGTTTGAATCTGTGCG</p> <p>GGCTGCAGCTGCTCTCAGAGCACTTGGATCCCAATCTCCTGGGGCG</p> <p>CCTGAAGAAGCTGAGGGAACCTTGACCTCTCAACAACCTTGCTGGAG</p> <p>ACGCTGCCTGCTAACCTGGGCTGTCCCATCTGCGCATCTTCGCT</p> <p>GTACCAACAACCAGCTCGGGGATGTCACTGCCTTGACCCAGTTCCC</p> <p>AGAACTTGAGGAGCTCAATCTGGAAGGCAACCCCTTCTTGAGGCTC</p> <p>AGTGACAACCTCAAAGTCTCCTTTCTCCTGCCCCAAGCTTCGTAAGG</p> <p>TGAATGGCAAGGACCGGCTCCACCTGCTCACAGGTGGAGAATCT</p> <p>AGATCGGGAGCTGATGGCAAGGGTAAGGATGATGGCGTGGGGTGG</p> <p>GGTCTTGGTCATAGCAAATGGGTACTGAGTGGGACAGAAGTGGAG</p> <p>TTTTGGAGCTGTGTAACAGAGATTTCTGCCAGACAGCCTCAGGTC</p> <p>TGAGGTGGTGAATCTGTTTTTTTGTTCCTTTCTTTCTGTGTTGG</p> <p>AGACCCTGTCTCCAGGTATGCAGCAAGCACAGCAGGACACCAGCG</p> <p>AAGCTAGACTCACAGTGAAGTGGTTTTTGGCACATGCTCTTTCTTG</p> <p>CCTATATAGCCAGGTGGCTTAGGACTCTTCTGCCTCAGCCCCCA</p> <p>AGTGTGGTATCACACCATGTTCAAGTTGAACCAGACTGATTTCAA</p> <p>GTCTAGTACTAGATATTGAGTAGTTTCTAGAAGTGGTATAGTCA</p> <p>GTCTACTGTGTGAGCCGGAGGAGTTAGGGTGGAGGTGCTGTGTGTA</p> <p>GCCTGGAGACCCAGGCTGGGCGGGGACGGTTCGTGGTCTTCTTACC</p> <p>GCAGGTCACAGCTCACTGGCAGAAGTTCATAGCCACTGTGAGCCCT</p>
ENSMUST0000031740.1	5	35,933,105 3,118,134 6	ENSMUSG00000029726.1	<p>CACTCGGGGAAGGAGGGAGTGGAGTGGTCTTAGGAAGGGTTACAGG</p> <p>GGGCTTCCCCTTGCCTCTTCTCAGTACCCTCGCTTGAGAAGGGGA</p> <p>AATTAACAGGGAGAGGAGATGATCGAGATGGCGCGGAGAGGAG</p> <p>CCCTTTCTGGTGCCGGCCCCGCGCGGCTCAAAGATGAGTCGG</p> <p>GCGGAGGGGCGGCCCGAGGTGAATCGCACCAAGAGGCTGCCTC</p> <p>CGGGGAGCTCCGTGATGGGACAGAACACGGGCCGGGCCCTCGCGCG</p> <p>CACTCGGCCGGGGCGGCAGCCGAGCGGAGGGGGCGGCCACAGGC</p> <p>ACAGGCGCACGGGGAGCCCCACGGGCGAGCCGCGCTCCTGCGGAC</p> <p>GTGGGGAGGAGCGCCGGGAGGGGGCGGGACGACCTGGGTCCCC</p> <p>CAGCCCCCTCCTCGACCTCGCAATGGCTACCAGCCCCACCGACCCCC</p> <p>TGGGGTGGTGGGGCAAAGAAGAAATAGCTGTAACCTGGGGGGA</p> <p>GGGAGCGGTGGAAGCTTCAAACATCCGGCTTCAAGAGGCGCCGGC</p> <p>GAGTGAATTCAGACTGCGACTCTGTGTTACCATCCAATTTCCCTCT</p> <p>GGGGGTAACATATTTGATCCACTGAACCTGAATAGCCTCCTGGAT</p> <p>GAGGAAGTGAGTTCGCGCACTCAATGCGGAGACCCAAAGTCACTCC</p> <p>CACTTCCGGCCAAGGGGCGAGACCCTGTGGAGATCCTCATCCCCAA</p> <p>AGATATTTACTGACCCGCTCAGTCTCAACACTTGCACTGACGAGGCC</p> <p>CATGTAGTGTTCCTCACCCTCAAGATTGGTCGCAAGCGCCATA</p> <p>GACACCGGGACCGCACCAACAGCAGCAGCAGCAGGCGTCTGGAGG</p> <p>GAATGATAGCAACGCGCGTGTGCTGCCACTGACCTCTCACGCC</p> <p>TCACCTCATGGGAGGGTGCTACGAGCAGCAGCAAAAACAGAGGCC</p> <p>AGAACCGTGATGCCCTCAACCTTATGAACCAACACAGCCATCAA</p>
ENSMUST0000061232.1	1	33	ENSMUSG00000029810.1	<p>TCACGGCCCCCTGGTAGCCCCCTTTTGAAGCATAGGGTCTCTCTCT</p> <p>CTCTGGAAGAGTCTCCAAGTCTACTCTCTCAAGCTCCATCTTGGCTC</p> <p>AGGATGCTTCTCTCTCTCTATCTGCTTTCTGTAGGACTCTG</p> <p>GGGAGGGAGGGATGTTGGACAGAGGATGTGACTCTGGAAACAGG</p> <p>GCTGAGGCTGGGAGGTCAGAGTCTGGCTTTACCTTCCATAGTTAT</p> <p>CAGTCCCTCACGCCCTGCGTCTTAAGAGCAGGGCCTTTGAGACCAG</p> <p>CAGAGGTGGGACAGTGTGGGACACGGGGTGTCTTTTTCTTTGT</p> <p>TTCTGAACACTGGGAGGAGGATATCAGAGAGCCACTATCTGGAGC</p> <p>GGTGCCAGAAGTGGTGAGAGGCTTCTGGTGCTTAGGGCTTTAGTT</p> <p>CCTGCTCTGCAGAGGAAGCAGAGGATTTGGGTGGCCAGGGCAGG</p> <p>GATAGCACTGGGGTCTAGAGGGGGCCAGCACCCAGACAACCTGAGA</p> <p>CTTTATTTCTGGAACCTCAAGGGAAGGTGTGAACCTGAGGCCCTCA</p> <p>TTTGTGTTTTCTCTCTGCTCCTGAAAAGTTGTCAGACTCTGTG</p>

ENSMUST0000032141.1	1	13	ENSMUSG0000030060.1	CTTTCGGCTCTGAGGTGCACGGCAGGAAAG CTAGTTCGCGAGGA AGGGT GGACTAGACCCTCGGGCGGTCTGAGCGG CAGCGCTGAAGT
ENSMUST0000032398.1	1	54	ENSMUSG0000030264.1	TTTCCGGGCTGGCACCTCGGCTTCCGGCGGCGTCTCGCGGTGCGG AGACCGGA AGGGT CTGTGCTTGCTGCCGAGACTGTTGGTCTTTTA GAAACATCTCCATC
ENSMUST0000032723.1	1	20	ENSMUSG0000030512.1	GCAGGCTGGTGTGCGAGGTG AGGGT CCGCGGGCTGCGACAGG
ENSMUST0000032729.1	1	105	ENSMUSG0000030516.1	CGCCTGAGTTGCCCGCGACGGCTCTGCCCGCCGACGGCACGTCTCT CGGCGGCGCGCGTTCGGGGAAAGTTACGTGCGGGAGCAGGCCTTTG GAGGAGACGCCCC AGGGT TAGGGGACAGCCGGAGGCCCGGGTACT GCGGAGCGGCGAGCCGGCGGAGGCGGCGGAGCCGAGCAGGCGGC CGGGTGTGCCCGCGGAGAAGCCCGGGCGGGGCGGACGCTTCCCGG ACTTTGTGCCACTTGAATCCCCTCCCCGTGGGCCGGCCTTTCCG GCCTCCCCGCCCTGCCCGCTCGTCCCCGGGAGATGTTATGCG GACGGTGGCGTGAGGAGCGGGCGGGCCGGCGGCGGAGTTTCCGG TCCGAGGAGCTTCGCGCGCGCGGAGAGACAAAGATGTCGGCCAG GGCCCGGCCGCTAAGAGCACAGCAATGGAGGAAACAGCTATATGG GAACAGCACACAGTGACGCTTACAGG
ENSMUST0000032826.1	1	606	ENSMUSG0000030605.1	GAGAGCAGAGTGCCTTACACTCTCCTCAGAAAGCTGCTGAGGGG GATTCTACAAAGTACCATGGAGAGGCAGGTGCGATGCCAAAAGCCT CTAATTGGGGCCAAGGCAGGAGAATCACAGGTTCAAGGCTAGCAT GGGCAACTGGGAGTGTCCCTGTCTCAAAGCAGTAAGGACTGGGGAT GTAGTCAATGGTAGAAGCCTCACCTAGCTTGTTCAGTTTAGTCC CCAGTACTACACACGCGCTAAGAAGATGACGAAAAGCCTGCTTTGT GTGGAGTTACCTTCGCTGTTCGCTACTGTCCAAGGCCACTCTGCTC CCAAAGCCACTCCTCCTGGGCGAGCCAGGGCTAGGGATGTGGAAGA AGAGGTATCCTGCTTTTCTCTCCTACCAGAGACCAACTACTACAA CCTGGATGGAGAATACATGTTACACACAGCCGTCCCAATAGTCC GTCCCCACCCCGGCCCCACCCCGATCTTTCCAACAACCTAGCCT CCCGTGAGTTAACTCTGCTGGCTCCTTGTCTCCCGTGTCTCCCGTG ATGCTTCTCTTCCATCTGCTGTGCGGTGTCCCTTGGTGTATCTGC TCTGAGT AGGGT CTGAGGTTCTCTGTCTCTAGGTCCTCATGAG AGGCCACGTTGTTTTTCTCCTCTTGTCCCGTGACATAACCGGGC CGTGGAACCTTGGAATTAGGCTCCCGATGGTCACTGTCTCCCTGCAG GTTGTTCTACACAGCTGGGC
ENSMUST0000032840.1	1	33	ENSMUSG0000030611.1	TGGTGTGGCTCGAGCTAAGCCAAGCGCCGG AGGGT CAATTTCA GTC
ENSMUST0000032851.1	2	13,63	ENSMUSG0000030620.1	AAGTTAGGAAGGA AGGGT CAGAGGTCGCCGGCCAGATGCGTTCCCT GTGTTGTTATGTAGTGG AGGGT CACGTTCCCTTCCGCAAATTCCTGG AAGGTTCTTGTAGTTCAATTAGGACAGTGCTGCGGAATTCCTGGTG TCCGGCCTGAGGTGCCCGCTGGCCTAGCAGAGGCGCCGAGGGCGCT GCC
ENSMUST0000057491.1	2	27,77	ENSMUSG0000030620.1	CCGGAGAGGCGTGCAAGTTAGGAAGGA AGGGT CAGAGGTCGCCGGC CCAGATGCGTTCCCTGTGTTGTTATGTAGTGG AGGGT CACGTTCCCTT CCTGCAAATTCGGAAGGTTCTTGTAGTTCAATTAGGACAGTGGCTG CGAATTCCTGGTGTCCGGCCTGAGGTCGCCGCTGGCCTAG
ENSMUST0000032989.1	1	437	ENSMUSG0000030738.1	CCAGAGATGTGGCAGATGTGCCCTAGACTGCATCAATGAACTGATGG ATACGTTGGTTGCACATTCACAACATCTTTGTTGGAGAGAACATTTT GGAAGAGAGTGAGAACTTACACAACCTTTGATCAGGTCACCTGCGTGT ACGAGGCTGCATCCTAACTTTGGTGGAGCGAATGGATGAAGAATTT ACCAAATAATGCAAAATACTGATCCTCACTCCCAAGAGTATGTGG AGCACCTGAAGGATGAGGCACAAGTGTGTGCCATCATTTAGCGAGT GCAGCGCTACCTGGAGGAGAAAGGTACCCTGAGGAGATCTGCCAG ATCTACTTAAGGCGCATCTGCACACGTAACAAGTTTACTTACA AGGCCATCAGCGGCAGCTTACTCCTCCTGAAGGATCTCAAAGTC TGAGCAAGACCAGGCAGAAAAT AGGGT GAGGACTCAGCTGTGCTA
ENSMUST0000033068.1	1	221	ENSMUSG0000030800.1	AGAACAGTCCACGCTGGTCACTGCAGAGAGACTAAAGGTGTGTCC CGTCTTCCCCCTGGCCATTTCTGCCGAGAAGCCTGCTTACCTTTC CCAGCCTAGATCCTGGGATTCCTCACTCTGATCCCACACCTAGATC CTGCCCTCAAACCAGCCTTCTGTTCTTCCCTTCTACTACGGGG CTCCTTCCGGGGGCCCTTGTCTTAGGCCATGGCCCT AGGGT GGGC CTGGGACTTGGGCGACTGGAAGCTGTGACCATTTCTGCTCTTCTCG GATGCTCCAGTCGGGAATCCGAGCTGACGGGACTGAAGCCTCCTG TGGTCCGTCATCCAGCCACGCATCACCGTGGTGGCAGTGCAAAAG CCCGTCACTGGCCCTGGCAGGTCAGCATCACCTACGATGGCAACC ATGTTTGTGGCGGGTCCGTCGTGTCAAATAAATGGGTGGTGTCTGC TGCTCACTGCTTCCCCAGA
ENSMUST0000051220.1	1	603	ENSMUSG0000030868.1	GGCCGATCAACCGGAAGTAGCTGGAATCACCGTCTGCCTGAGCTAC TGACAGGATCCTGAGGTTACAGAGGGGGAAAGCCATGGAGTTGGG

ENSMUST00000033169.1	1	127	ENSMUSG00000030878.1	<p>GAACTGCTGTACAACAAGTCGGAGTACATCGAGACGGTGC</p> <p>GGCGACCCCTGCCGCGCTGGCAGTCACGGGACCCCTCGAGGACTGGA</p> <p>CGGTCCGCCCCCCTCCCGTCCCGGCTGCACTGGTCCCGTTCCTCAGT</p> <p>CCCTTCCCTGGATGACTTAGAGATGCTTCGTGTTTCATCTGATTTGT</p> <p>TATTTAGTCGGTGCATGCATGCATTAGGCTCTCTTCTCCTTCATCT</p> <p>CGTGTGTGTGGGTGTGCTGTGTAGCGGGGGAGAAAGTGTGGATGT</p> <p>GGGAGAGTTTCTATGCATATATATCTATGTGTGCATATACACAC</p> <p>GCCTGAGTTTCCCTGTAAATAATGTCTTCCAGAGGAAATACACAGTA</p> <p>CAGCCTATTCATTCTGTATATAAATTACATTTTCAGACTCCGGGCC</p> <p>CTTTTAAAAATAATATTTTCACAGTCTGCTTACGTGCTAAGACGTT</p> <p>ATTGTTTCTATTCGTCAACTCATAATAACAATATGTAACACTGCC</p> <p>CCGTTAGGGTFACTATCATATATTTTCTGTGTCTGTGATCATG</p> <p>GAAAAGTAATTTTCCCTCACTGAAGGCTATGAAACCGTAATATGGAA</p> <p>GTGGGTCTGAATGCACATCAGTCAATAGACCCTCATAGATACC</p> <p>GATCCTGAATTCATTTCTTGAGCTCTCAGTTCCTGATCTACCCCTG</p> <p>CTCTTTTGTAGATATGGATTCAGTTCCTGAGTGTCTTATCACAGGA</p> <p>GCCGTGCCACAGCCTTCCCCCCCCCCCCAGTGCATTCCTTCTC</p> <p>CAGTTTGTTTTGTGTGTGTGTGGTGTGGAGTCTCACTTATA</p> <p>GTTTAGTCTAACCCAAATTCACAGTACCCCCACCCAGAGCTGGGA</p> <p>CAGTAGGGGTGCAGTATACATTCAGGCCCTCATTATTTTAGACTG</p> <p>TTGGGCCGGGCAGCAGGCGTGGAGGACCGGCTCCCGGCCACCCG</p> <p>GGCGCGCTCGCTAGGGCGCCGGCTTTGGCGCGCGGGATAGCG</p> <p>GCGAGAGCTGCTGCGGGACCTGCGTGTCCCGCCCCAGGGTGGCTCT</p> <p>GGTGAGGGCGGGCAG</p>
ENSMUST00000033321.1	1	182	ENSMUSG00000031012.1	<p>CGCGGATCAGCCGCCACCACCTCCCTTCGCGACGATCCCTCCCTCCA</p> <p>TGGTGTGTCGCGGGCCCCCTGTAGCCCGAGCTGCCCGCGCCGC</p> <p>GCCGAGCCGGTCTCGGGCAGAGGAGCGGTTCGCGGCTTCGCGGCC</p> <p>CGCGCGGGCTGACGAGCGGAGAGTGCGGCGCTTCGCGGTCCCCAG</p> <p>GGTCCGCACGCCCCGGCAGCGCGGTTCGCCAGCCACCGCGCAGGAG</p> <p>CAGCGGGCGGGCGGGCGCGCGGGCCCCGGGCCCTCGCTCCCA</p> <p>CGCCCGGCCCGCCCGCCCGCGCGGGGGCGGCAGCCGGCAGAGGAA</p> <p>AGGCGCTGCAGTCTCCGGCCCTCACGGCCCCAGTGCAGCTTCCTCA</p> <p>GCACCGAGGGCTTCGCGGTCTTGAGTGGAGGACACGAGCCCGGAGC</p> <p>CGGGCACTGAGCTCTTGGGCGCCCCAACCCAGTTTTCAGAACCCT</p> <p>CCACGCTGCGGCCGCTGTCCCTTCGGACC</p>
ENSMUST00000057655.1	1	182	ENSMUSG00000031012.1	<p>CGCGGATCAGCCGCCACCACCTCCCTTCGCGACGATCCCTCCCTCCA</p> <p>TGGTGTGTCGCGGGCCCCCTGTAGCCCGAGCTGCCCGCGCCGC</p> <p>CCCGGAGCCGGTCTCGGGCAGAGGAGCGGTTCGCGGCTTCGCGGCC</p> <p>CGCGCGGGCTGACGAGCGGAGAGTGCGGCGCTTCGCGGTCCCCAG</p> <p>GGTCCGCACGCCCCGGCAGCGCGGTTCGCCAGCCACCGCGCAGGAG</p> <p>CAGCGGGCGGGCGGGCGCGCGGGCCCCGGGCCCTCGCTCCCA</p> <p>CGCCCGGCCCGCCCGCCCGCGCGGGGGCGGCAGCCGGCAGAGGAA</p> <p>AGGCGCTGCAGTCTCCGGCCCTCACGGCCCCAGTGCAGCTTCCTCA</p> <p>GCACCGAGGGCTTCGCGGTCTTGAGTGGAGGACACGAGCCCGGAGC</p> <p>CGGGCACTGAGCTCTTGGGCGCCCCAACCCAGTTTTCAGAACCCT</p> <p>CCACGCTGCGGCCGCTGTCCCTTCGGACC</p>
ENSMUST00000033509.1	2	166,354	ENSMUSG00000031168.1	<p>TGCCTACTGGTCCGTAGGTAATAATTAATAATGACAGTTTGAGATGA</p> <p>TCAATATTCAGCTAAATGCTGACGAGGCTGTGTTGCCAACTTGTT</p> <p>TACCGTCATGCCTTCTGTTGGCTTTTAAGAACTGGCACTGTTGAG</p> <p>AGTCTACACCAACTGCTCAGCAGGAGTAGGGTTTGAAGGTGACCG</p> <p>ATGCTGTTAGGACTGGAGAGTTCTGAGCTCTGGTGGGGCTAGGTT</p> <p>TGTTTGTACTGAATGTAATCCACCTGTCTGATTTCTGATTTGGG</p> <p>CTAAGAAATGGTCCGGAACTGATTTGGTTGCCCTAGAAAACCTTAGAA</p> <p>GACCACGCAACTCCGGTCACTAGCAAATGTTAGGGTTTCAAATTT</p> <p>CAGCCTCATCTGTGCGATTTGATAAGAGGGCAGGAAATTTGAAGCT</p> <p>CAGAAATAGCATAGATTTGCTATCGGGAGAAAGCGCCACAGACCTT</p> <p>GGAGGTCTCCACCTACTCCTGACTTGGTCTCAGCCAACAGGGAAG</p> <p>ATGACACCATAGGCGAGGACAGGGCTTCGACATTCGGAGGACTCC</p> <p>TATTTGGCAGAAGCCACCTTCTCCACTTCACTATTGGTCCGCTCCAT</p> <p>CGGGCGGGGAAGCGTAGAGCTGAGCGGAACCTGGGCTATTAGGGA</p> <p>GCCTGCAGGTCTTCTTGGAAAGTCGCAAGCCTGTGTTAGGAAGTCG</p> <p>CCCTGCGATCGCGCCGCTGGGGTTTTTCTGTCCCTTTGTCTCGT</p> <p>TTATGTACGAAGCTGCCAGCGGGCCATAGAAAAC</p>
ENSMUST00000033582.1	1	17	ENSMUSG00000031231.1	<p>TTTACAGGACGCTTTGCAAGGGTAGCTGGGGTGAATTTGCACCAAGG</p> <p>CAGCAGCATAGTCGCGCAGTTCCATCTTCGTCTCCGCG</p>
ENSMUST00000033604.1	1	52	ENSMUSG00000031252.1	<p>CGGAAACTCTCGCGCTGGCAAGCTCGAGCCGATCGCCCGGTGCAT</p> <p>AGGCGCAGGGTCTCCGGTAGTC</p>
ENSMUST00000033673.1	1	137	ENSMUSG00000031311.1	<p>CGGTCCGCGCTCTTTTCTCGGGACGGTGGAGGCCGTGCAGCGTCC</p> <p>CCCATACTCCGAGCAAAGAACTGTGGCCAGAGGAGTCCAGGTTAG</p> <p>TGAGGACTGCGAGGACACTTTGCTGTGTTCAAATCCAAGTCAA</p>

ENSMUST00000052229.1	1	102	ENSMUSG00000031311.1	GGGTACAAAA GTGCAGCGTCGCCATACTCCGAGCAAAGAACTGTGGCCAGAGGCA GTCGAGGTTAGTGAGGACTGCGAGGCAGACACTTGTCTGTGTTCAA ATCCAAGTCAAGGGTACAAAA
ENSMUST00000033715.1	1	92	ENSMUSG00000031349.1	GAGCGTCAATTGGTTGCGCCAGAGCCAAGCTAGACCAATCAACATT ATGAAGGAAGCTCTGCTGATTGTGGGCTCATATCTATCAGTAGAAA AGGGTGGCGGGTGTTCAGCCAGACTTCTCTGGTTGCCGGTGTCTG CAAGCTGAGGTCGATCATTGAGTGTCTAAACCGGGAAGAAGAGTT GATTGCAAACGAAACCATACTTTGAGCCATA
ENSMUST00000033797.1	1	88	ENSMUSG00000031422.1	ATTCCTCACTTCATCTTTCAGACCATCCTAGGAAATACAGGAATC CTTGGAAAGGAAAGAAGGAACATTGTTGGTTGGAATAAAAA CAGGG TTGA
ENSMUST00000033824.1	1	79	ENSMUSG00000031447.1	TCCACGGGCTCTCGCGAGACCCTCGGCTCACGTGACCGCGGGGCGC GGCACTGCTCACGTGACAGGCGCTGCCGGCCG CAGGGT CCTCTCCG TGCCGGCGCCGAGCTGCGGGGCCCTCGAGTCGGTGGACGCGCCC TCCCGCGGGCTCGCCGCCCGCAACCGCGTCTCCGGCTCGG CTGCTCGCGCC
ENSMUST00000033899.1	1	89	ENSMUSG00000031503.1	AGCAGAGCCAGGCCGGCTGGCCCGGGTGTGCCACGGGCCAACGC TTCTTCAGGGGCCATGCGCGGGGCGAGCAGCTCCTGACCT CAGG GT TAGGAAGGGATCGAGCCGAGCTAGAGCTCAAAGACTGGGATC
ENSMUST00000034166.1	1	26	ENSMUSG00000031730.1	CTCCTCCTCACGGTTGCACCGAAGGA AGGGT GCAGCTCAGAGC AGCGTCCCTTAGGAGGCGGACAGCGACAAGACAGAAAGTAGGCAC GTCCCGCCACGGAGCCTGACTCCGGGCGAGCGCACGCGTTCGGCT GTCCAATCAACGCTTAGGGGCGGGCCGGTGGTGGGGCTTGGGAGA TAGGTGGAGCCGAGCCACATTCTCCAATGGGATGCAGGCAGAGGC GGGCTAATGGCAGAAGGAGCATGGCGTGGAGACAGCTGAGA
ENSMUST00000034226.1	1	28	ENSMUSG00000031774.1	TGTGGCTGTAAGGAACAGGAAGCCCG AGGGT CAAAAGGAATACA ATAGCGAAGTGTGTTTCTTCTTAAAGCCGTCGTTCTTTCTTGG TTTCTTTCTAGTTTTTAAAGAGCGAGAGTGGCCTTGGCGGGCAGC GTTTACGGTAGGCGCCGGAGGTGAGGGCGGCTCGCTCCCGCGC TCTCGTAGATCTGCCACCTCCCTCCTCATAGACGGGACTTGACTG CTAAAGCGCTTGTAGTACCTGAGAGTCTCCATTAGAATCTGCTTTG GAAGCAAGAACAGACTGTACCATT
ENSMUST00000034277.1	1	93	ENSMUSG00000031819.1	GGTAGCAGCTGCTTTCGGCGAGAGCTTTCGGCCGACCGGCTGAG GCGGAGGCCCGGGCCGAGGTGCGAGAGCGTCACGGCGTGCAGCG AGGGT CGTGGCGGAGGACCGCGTGCCTGGGTGCGG
ENSMUST00000034329.1	1	129	ENSMUSG00000031865.1	TGGATGAAGCAAAAGGCCAAAAATGATGGCACTGTCCAGGGAGGAA GTATTTACATGTGATGAAGGCCACGGCATCTTGTACGCCAGTCC CAGATCCAAGTATTTGAAGATGGAGCAGATACTACTTCCCAGAGA CTCCTGATTTCTGCTTCAAAGTCTCTCAAGAGAGAGGGAGCCGA TGCAGCTGCAAAAGACCAGCAAACTGCGGGGACTGAAGCCTAAGAAG GCACCGACAGCCCGAAAGACCACAACCTGACGGCCCAAGCCTATC GCCCAGCCAGCACTGGGGTGGCTGGGCCAGTAGCTCCCTTGGCCC CTCTGGCTCAGCGTACCGGGGAACTAAGCAGCAGTAGGCCAGC ACCCAGCTCAGACTCCGCTGGCAGCACCCATCATCCCCACACCGG CCCTCACCTCTCTGGAGCAGCACCCCACTTCCATCTCCCTTAA GGAAGAGGAAGGGCTGAGGGCTCAGGTACGGGACTGGAGGAGAAG CTGGAGACCTGCGCTAAACGCTCAGAAGACAAGCAAGTGA AAGAGCTGGAGAAGCACAAGATCCAGCTGGAGCAGGTGCAGGAATG GAAGAGCAAAATGCAGGAGCAGCGCAGACTGCAGCGCCGCTC AAGGAGGCTCGGAAGGAAGCCAAGGAGGCGCTAGAGGCAAGGAAC GCTACATGGAGGAGATGGCCGACACAGCCGACGCTATCGAGATGGC CACTCTGGACAAGGAGATGGCTGAAGAGCGCGCTGAGTCTCTGCAG CAAGAGGTGAGGCACTGAAGGAACGGGTAGACGAGCTACCACAG ACCTGGAGATTTCTAAGGCTGAAATCGAAGAGAAAGGCTCTGATGG GGCCGATCAAGCTACCAGCTCAAGCAGCTGGAGGAGCAGAATGCC CGCTGAAGGATGCCCTGGTGGAGGATGCAGACCTCTCTTCTCAG AGAAGCAGGACAGCTGAAGCTGCAGAACTCATGGAAAAAGAAAA AGGCCATACTAAGCACAGGTGTACAGGAACCAATTTACCATGGAGC ACAGGAGCTTGGAGCCCCACCCACCTACCATCTTCCCCAAA GCCAACAGCACACTGTAAAGAAGATGCCGGCTCACCATCTCA AG GGT CTCCA
ENSMUST00000051662.1	1	136	ENSMUSG00000031904.1	GGGCTCCGGGCAAGGAAGGACCTGGGGACCCGGACCTCGGGAAAA AAAGCAAGTGAGCCCCGAGAGCTTACGAGAAGAGCCGCGCTTGG AGGGGAGGGGAGCTGCAGCGGGTGCCTGGGGCTCCCGCCCTG GCCTGGGTCAGGACCCGGTCTCCGAGGAGCCGGATCTCGAGAGTA GCTTTTGTATTTCCCTCGGAGCACTGAGAGTGGTGTGGTTCTGGT GGACTTGCAGAGGACCAAGACCTTGGGAAGATCGCGTTGCTCTTC AGTCGCCACCAGAGCTAAGTTCCCGAGGAGACTTCCGAAATGG
ENSMUST00000034441.1	1	1744	ENSMUSG00000031960.1	GGGCTCCGGGCAAGGAAGGACCTGGGGACCCGGACCTCGGGAAAA AAAGCAAGTGAGCCCCGAGAGCTTACGAGAAGAGCCGCGCTTGG AGGGGAGGGGAGCTGCAGCGGGTGCCTGGGGCTCCCGCCCTG GCCTGGGTCAGGACCCGGTCTCCGAGGAGCCGGATCTCGAGAGTA GCTTTTGTATTTCCCTCGGAGCACTGAGAGTGGTGTGGTTCTGGT GGACTTGCAGAGGACCAAGACCTTGGGAAGATCGCGTTGCTCTTC AGTCGCCACCAGAGCTAAGTTCCCGAGGAGACTTCCGAAATGG

ENSMUST0000001520.1	2	125,213	ENSMUSG00000031967.1	ATGCCACTTTAACAGCACGAGAGATCCGAGAGCGGTTTATAAAATTT CTTCAGACGAAAATGAGCACACCTATGTCCACTCTTCGCCACCACATC CCTCTGGATGACCCCACTCTGCTCTTCGCCAACGCTGGCATGAACC AGTTCAAACCCATCTTCCATAACACAATCGACCCATCTCACCCATAT GGCGAAGCTGAGCAGAGCTGCCAATACCCAGAAAATGCATCCGAGCT GGGGCAAGCACAAACGACCTGGATGACGTGGGCAAGGATGTCTACC ACCACACTTTCTTTGAGATGCTGGGCTCCTGGTCTTTTGGGGACTA TTTCAAGGAATTGGCATGTAAGATGGCCCTGGAACCTCTTACCAG GAGTTTGGTATTCCAGTTGAAAGACTCTATGTCACTTACTTTGGTG GTGATGAGGCGGCCGCCCTAGAGCCAGATCTGGAGTGCAGACAGAT TTGGCAAAAATTTAGGACTGGATGAAGCCAGAATCTCCCTGGCAAC ATGAAGGACAACCTTCTGGGAGATGGGTGACACAGGCCCTGTGGTC CCTGCAGCGAGATCCACTATGACCCGATTTGGTGGCAGGGACGCCGC ACACCTTGTCAACCAGGATGACCCCAATGTGCTGGAGATCTGGAAC CTCGTGTTCATCCAGTATAACAGGGAGTCGGATGGTGTCTGAAAC GCTGGTGGGGTGCACGGGCAGCTGAGCCCTGGCTGGCCCTTTCTCC AAGCTGTGGCGATGTGGCGGATGCGCAGGGAGCGCGGTACCGGTCT GGAGCAGCGTGGGGCTGTGGCATTGCTCTGC AGGGT CATCTGGG GAGATGCTCGCAGAGCTGGCTCTGCAGGGAAAAGTACTTCAATTT TCCCCGAGGCTGTATTTAAAACCTCCCAG AGGGT TTGAGAAGTTT TTAAGAATAAGAAGAACAAGAAAAAGTGAAGCCAGGAAATTCAGT ACCTCAAAAAAAGAACCAAAAAATGCTGGCCCTGGAGGAGATGGA GGCAACAGAGGAGGAAAGGAGATGATTTTCCCTGGTGGAAACGGA TGCAAAAAG
ENSMUST00000034552.1	1	85	ENSMUSG00000032051.1	GTGTAGCCCTCTCGCAGCCGGACACGCGGGACCTACCCGACCTCA GCACTGCGCAGGACTCCGCGGGACCCGGAACCTTCCGAC AGGGT T
ENSMUST00000056684.1	1	219	ENSMUSG00000032117.1	CCGGCTTTATCTGCACTGAAGAGTTGCGGAGTTGCCCTGGCATTTCG AAATGAAATTTTGC CGGAGTAGTTGGAGTGATCAGCGCCATACACC TTGCGATTTTCAAGCCCTCTGGCTTTGTTTTCAGACTGGACTCAGGC TGGCCTTGAACCTCCAGTGTAGCTGAGGATGACCTTTCCGCTCATGG ACTTCTGTTTCCACTTCCTAAGTGTGGGATTTCC AGGGT GACAGA GTGCCACTGTCCACTGAAATTCATCAGCTGCACATAAGCAAAGCTT GCCTCAGTGAAGGAGTATTCATGCAGACTTCTGTGTTACAGG
ENSMUST00000054708.1	2	35,185	ENSMUSG00000032123.1	GTTCCTTCCTAAGAGCTTCTTGTGGTGCAGGAGG AGGGT CAGGTC CTAGCTCCCTAGCTGGGTTTGTTCCCGCTGGCGCCGGAATCCTCT GCGGGTTGGGAGCCGCAC TGCCGCTGCCGAGGCCACGGGATTGTT CCTGGCTTACCAGTTAGCTGAGTAGGCGCGGGCGGCCGCCACCG GAGGGT CACC
ENSMUST00000034639.1	2	7,157	ENSMUSG00000032123.1	AGGAGGG AGGGT CAGGTCCTAGCGTCTAGCTGGGTTTGTTCCCG CTGGCGCCGGAATCTCTGCGGGTTGGGAGCCGCAC TGCCGGTGC CGAGCCACGGGATGTTTCTTGGCTTACCAGTTAGCTGAGTAGGCG GCGGGCGCGGCCACCG AGGGT CACCATGTGGGCTTCCCGGAG TTGCCCTTGCCGCTGCCGCTGCTGGTGAATTTGATCGGCTCGCTGT TGGGATTTCGTGGCTACAGTCACCCCTCATCCCTGCCCTCCGTA G
ENSMUST00000048674.1	1	47	ENSMUSG00000032295.1	GTCATGGATTACCATCTAGAGACACGGTACTTCTTGGGACGACCT GAGGGT GGCTGTGTATGCACGCTTCTCTGGCTTAG
ENSMUST00000034865.1	1	39	ENSMUSG00000032315.1	CTGAAGGTGGTAGTTCTTGGAGCTTCCCCGATCCTCCCT AGGGT CC TAGAGAACACTTCTCACTTCACTCCCTCTTACAGCCCAAGCAGCC ACCTAGATC
ENSMUST00000034878.1	1	32	ENSMUSG00000032328.1	GTAGCGGCAGCGGTGACTGCGGCTCTCTGT AGGGT CGGCGGCAC GCAAGTCCCTTGGGCGGCCAGCTGGACGTGGCCGAGCCGAAGCCC GGGGGCCG
ENSMUST00000034997.1	2	118,273	ENSMUSG00000032424.1	TTCTTTTACGACGGAGCCTAAGATATTCCTTTGTCTTGTGGTGGAT GAGTTACAGTCGGATGACCAAGTGAATATAGGGGTGCAACGAGGA TTTGGAGGCTTCTGAGACTTGAAC AGGGT ACTGGTGAACCTTC CTCGGAGAAGTGCGCAGCAGCTAATGATATTTCCGGATTTGGAGTCT GGGCCCAGTGAGATTCTACTAAGCGGCTGACTGAAGGCCGAT GCGTTCTAGTTCTTCTGAGTCCCGCGTGGGTAGGTTTTTACAG AGG G TTTGCAGCCTTTTGTGCTGTTCCGAAGTACTAGAGTACCCGAAA GAGACATCCATTATATGCACGTTTACAAAGGACA
ENSMUST00000035205.1	1	179	ENSMUSG00000032586.1	AAAAGATTTCACTTCTGCTTTCGCCGGCTGGAGCAGACCTACTTTAT AAAGTTATGTATGCTTCTTCTGAGGGAGTAATACTGCTAACGATAC CGTAAAAATCGCTAAGGAGCCTCGCTTCAACTCAAGATGGCCTTTC TCAGGGAGGACCTTAAATTAATCTGATGTGGGAATAATAAAG AGGGT TTGTTATTTCTTGGTCTTTGAAGCATCTGTACCTCCAAAATCACCA TCCTACAGTCTCAGCTGGTTCCTGGGCTGCTTGGTGGTGGTGGTGGT G
ENSMUST00000041081.1	1	56	ENSMUSG00000032771.1	GAAGCTAGGGGAGCGCGGCTATTGCCGCTGGCGCTTCCACCGCAGT GTGAAGAAAA AGGGT CTGAAACAAGTCTTACCAACGCTGCTTTT GAACACAGTACTGCTGGATCTTTAAACATCAAGTTACGCTTTGTC

ENSMUST00000050950.1	4	219,329,50 9,766	ENSMUSG00000032806.1	TGTC AACCTGTCTGAC GCCGGCCCGGCCACTACTTGTGAGGAGCTCTGTGGCCCGGAAGC AAGTGAGAGATTTCGACCGTTACCTTACTCTGGTTTTCTGCCTC CCTCTTCATCAGCGAGATTCAAGGCTGGACCAGGGCCCCAGGGAA AAAAATCCTGCTATCAAGGAAGAAAATATAGGACCAGGACCTCCCA TGGACCCTTCTCAGGACATTTCCACAGCACAAGCAAGGGTGTCTCC CTAAGACACAAGAGGCTGAAAAACTATCCTTTGTGAAGTGCCAT GGTGGTCAAGAAAAGCAGAGGTAGCTCCAGCAGTTGCCTGGCCTG GGAGACAGGGTGGTTGTACAGGTTTGTAGGCATGCTTGGAACTG CCCTGCTGTTCATCAGCCTACCATGGGGAGCTCAAGTGATGGCCAG TGCCAACATCAGCACTGCTCTGGCCACACAAGTGGTCACTATTTG AGTATTGGGGATGGCTCAGTGACAGAATTTGATTTCCCTGAGAAGA GT GAGGGT ATCATTGTGATCTCTAGCCAATACACTGGACAGACCAA TGGGACAGGGCCCAGCCCCATACTTAAGGTTATATCCCTGGACACA GAGGTGCTGACCAATAAGAATGTGAGTGCCATAACCTGGAGCAGTG GAGGTGGCTTTGTGGTAGGCATCCACTCAGGCTTAGCTGGGCTGGC CCCCTCCACCTCCAGCTCATGGATTTCTATGAGGCCCCACCCCTG CTGATCGAAGAACGGAGAGATTTCTGCATCAGGGTGTACCTGCTG AAGACCTCCCTTCTGCTCTCAACACCAACTTGGCCACTTCTCAGA GAACCAATACTCTACTTGTCTTCTGCCTTTATCTTTGTCAACAAG TGTTCAATTTGGTTGCAAAGTGGAACTTGAAGTTTGAAGGAGCTCC TACAGAGCCCCAACCCATGCTGTGGGCTCTTGGGCCAGTTTCT GGTCAATGCCTTCTATGCTTTCCGTGATGGCCAAAGCTTCATGCTA
ENSMUST00000037967.1	1	188	ENSMUSG00000032806.1	CGAGGCCCGGGCAGGACGGGCTCACTTGGCCGGCTTTGGCCGCC GGGCCACTACTTGTGAGGAGCTCTGTGGCCCGGAAGCAAGTGAGA GATTTTCGACCAGGAAAAATCCTGCTATCAAGGAAGAAAATATAGG ACCAGGACCTTCCATGGACCTTCTCAGGACATTTCCACAGCACA AGCA AGGGT GTCTCCCTAAGACACAAGAGGCTGAAAAACTATCC TTTGTGAAGTGCC
ENSMUST00000062098.1	1	21	ENSMUSG00000033006.1	TCAGTCTCGGCTGTCCAGCC AGGGT CTTTGGTGGTGAGGATTACAGG CTCCGTCCAGACAAGGCAGTGGCCTGAGGCTCAGGGCCCCCAGCC CCTCCCTCCAGTCCATCAGCGTCACTCCCAGCCCCGAGCTGGAC CGCACACCTTGGGACACGGTTTTTCCACTTCCCTCAGGACGAGCCCCA GACTGGAGGAGAGGTTCGGAGGAGGTGGGCGTTGGGCTTTCACGAG GACCCCGGCGGGGCCCGGGGAGGCGGCCGAAGCGGCGGGCC GGGAGCGAC
ENSMUST00000040019.1	1	85	ENSMUSG00000033006.1	CAGGACTGGGTCTCCTTTCCAGGGAGAGGAAGAGCCCTTCATGGAA CCGTCTGCAGCGGCTCAGTCAGTCTCGGCTGTCCAGCC AGGGT GTT TGGTGGTGAGGATTACAGGCTCCGTCCAGACAAGGCAGTGGCCTGAG GCTCAGGGCCCCCAGCCCCCTCCCTCCAGTCCATCAGCGTCACTC CCCAGCCCCGAGCTGGACCGCACACCTTGGGACACGGTTTTTCCACT TCCTCAGGACGAGCCCCAGACTGGAGGAGAGGTTCGGAGGAGGTGGG CGTTGGGCTCTTACGAGGACCCCGGCGCGGGCCCCGGGGAGGCG GCCGAAGCGGCGGGCCGGGAGCGAC
ENSMUST00000050006.1	1	151	ENSMUSG00000033545.1	TGCTTTTCCACCCCGGGATTTTTTTTGGAGGATTTCCCCCTCAC CTTTTTTCATTTTTCTCCCTCGGGCTCTTTTGTGACTCTCCCCA ACCCCAACCTTCCGCTTTATGTTTCGCCAGACCTCCACCCGCTTC TGAGTAGTGGGG AGGGT TTACAGCTCCACGTTCCCGCCCCACCG GGCCCCGGCGAAC
ENSMUST00000042012.1	1	129	ENSMUSG00000033732.1	CGCCGGCGGATCGGCAGTGGCGGTGGCTTAGGCCCTGAAGCGATT AGCATCCGTCCGGTACCGAAGCCATCCTTCTTGAGCAGGCTCTGCT TTGCCTTGAAACCGTTGCTGTAACCAAGAGTTGACT GAGGGT CACA GCTTTGCTTGTACC
ENSMUST00000054613.1	1	129	ENSMUSG00000033732.1	CGCCGGCGGATCGGCAGTGGCGGTGGCTTAGGCCCTGAAGCGATT AGCATCCGTCCGGTACCGAAGCCATCCTTCTTGAGCAGGCTCTGCT TTGCCTTGAAACCGTTGCTGTAACCAAGAGTTGACT GAGGGT CACA GCTTTGCTTGTACC
ENSMUST00000044369.1	1	105	ENSMUSG00000033793.1	CACGGAGTCGCCTTCGTTCTGCTCTGGGCTCCTCCGTGGCCACTGAG ACCTCGGAGCTCGACCGGCGCTGCCGCCCGTGGCCCTCACTC CCCGAGGCTATC AGGGT CTGTGGGAAACATTCAAAGTCATAAAGT TTAG
ENSMUST00000036996.1	1	42	ENSMUSG00000033938.1	AGTCTTCCAGGTGGGAGCGAGGTGACCCCGGCTACTAAAGA AGGG TAAGC CAGAGTAGCC
ENSMUST00000042664.1	1	41	ENSMUSG00000033965.1	GGACAGGCTGGCCAGCTCGGGCGCTGGGAGGAGGAGGAGCG AGGGT CTCAGGCAGCCGCGCGGAGTGTCTCGGAGCGGAGGAGCAGTAGC AGCAGAAACAAGTACCAGCCAGACAACAGCTCCTCCGGCAAGCCAC AGTCAGTCCCCCTAGCCGCG
ENSMUST00000048082.1	1	88	ENSMUSG00000034053.1	GTGTGCGGCCGAGGGGACTCCGCGCGGACGACAGCTCCCGGCTGAG GCTGCGTGAAGGATCCGCTTCCGGCGGCCCTACTGCGAC AGGG

ENSMUST00000035840.1	1	73	ENSMUSG00000034075.1	<p>TGGTGTGCGCTGTCACCCACGGGCTCAGCGGGCGTCCC GCGACGG CCTTTCGCTGAGCTGGCCCGGGCTGCGATCCCTGCGCGTGC AAG CCGAGGCCCCGCGGCC</p> <p>ATCACCTTTCCTCCCATGTGCTTTCCTTCATTTGAGATCTTTT GACCTTCATTTTATTTGGGAGGGGAAAGGGTGATAAATTATACATT TTCTGTTTTCCCCAGTTTCTTTCCTCTCTGTTTCCCTCATCCCATT TTCTTGCTGCTCTGCGCGCTGTGTGGGCTTGGGCTATGCGGCAGGG CACATCTTTCATCAGAGCTCCAAC</p>
ENSMUST00000040721.1	1	26	ENSMUSG00000034118.1	<p>CGGCACGGCTGCGCCTCCGCCATCGTAGGGTGCCGATCCCTTGCC ACAGTCGAGTCTCCATGGCCTGACCGTGTCTTGACAATAAATTTGA GCAAATCTATGTCTAATAAGAAGATAACCACATCAAG</p>
ENSMUST00000051232.1	1	119	ENSMUSG00000034120.1	<p>CGTCAGGTTCCGGTGTCTGCGGGCGGCTTGC GGCTCCCTCCCTAC CCACGAGGACTGTAGCTACCGAGCGCCTGACGGAGCTGCGTTTCCG GAGAGCGAGGGCCTGTCCGGGGCGTAGGGTCTCGGCGCGCTTCG CAGCC</p>
ENSMUST00000047473.1	1	129	ENSMUSG00000034120.1	<p>CTCAGGCGTCCGTACAGTTCCGGTGTCTGCGGGCGGCTTGC GGCT CCCTCCCTACCCACGAGGACTGTAGCTACCGAGCGCCTGACGGAGC TGCGTTTCCGGAGAGCGAGGGCCTGTCCGGGGCGTAGGGTCTCGG CGCCGCTTCG CAGCC</p>
ENSMUST00000039679.1	1	24	ENSMUSG00000034558.1	<p>ATTCTCAGGGAAAGCTGTGTGAGGGTTGGAGGGAGGGAAGATTG GATGCTGAGCCCTGTGAGAGCCAGGGATGTGATTGGGGTCTATT AACTGGCTCCAACATCCAAGGTTTATCTGTGCAACCATTTCTCTGA GG</p>
ENSMUST00000058094.1	1	4	ENSMUSG00000034681.1	<p>AAGAGGGTGGGAGGCGAGGTTCGATGTCTGTGCGCGGAGCGGACGGT GCAGATTGCGAGCCCGCCTAAAAGTGCTCTTTGGCGTAAATTGCAA TCGATTAGGGATCGTTTCTCAGACTCAAGTTAGAAGTGAGAGTCA GATAAGTGAGCCGACATGTCTGCCTTGAAGAAGGGGAGA</p>
ENSMUST00000040344.1	1	841	ENSMUSG00000034707.1	<p>CACCTGACGTCCACAGAGGCAGCACGGAGTGGCGAAACTCGGTTTC CAGCCTGTCTCGGCAGTGAGCGGTTTAGCTTTACACAGCCCTCTG CCCAGCTTTAACTTGTAAAGACAGCTATGAGTCACTTTGAGAATTC AGAGGCCATGTTGGGGGACAGCCATTGAGTTTATTCCTTTACCTC ATGTGACCCAGCAACTTTGGTGATACTGAGAGGCCAGCAGGCAGT AGAGTGGACACCTCGGCCGTGGCCACTTTAGAGGGGAAAAGTTTA AGTTTAAACTAAAAGTTACAGAATTGAATGTGGATACCGGCTTCA TTACCCCCACTTGGATTCTAAACATGACCAGTGAAAATAGTGAAAG CTGACCACAGTTGTTCCCAAATAAAGGTCGGCAGCTCCTACCAGGT CTGGGATTGAGATGTTAGAGTCTTCAGTTTATAGCCGGCTCCTGA AAGCAGGCGACATCAGAGTGGTAACAGTCACTAGGCTGCAGTAGGT GTCTTACCTCGAGGCCCTCAGATGGAGGTAACACATTAGGATTTGTG GGACACAAGATCCTCTCTGAACCTCCTGGTTAAGGAACCTTCTTGC AAACATTC AAGTAGACCTTCTATAACAGACTGCAGCGTGCATGCGCC TCTACCCACAAGAGATGCACTGCAGGAGCCGGCCCTGTTCTCTGT ACTCAGCATTTTGACATCTCCTTTGAAGGCCAGGTATATGTGTACC AGTGCTTTCAAAGGGAGAACCATTAAAACCAACATGGAATGCAGG GACTTCGCCCTTATAAGATTTCCAGTTTTAAAAC TGCCCTCAGATA CAATTTCAAAGTAGGGTACACATTAGAGTGTCTTTGAGTTCAACAA GTTGGTACTGTGCAAAACCTTCTGAATTGCCAGCGCCCGGGTTT TTATGTAAAAATAGAGTGGCT</p>
ENSMUST00000038488.1	3	530,1113,1 406	ENSMUSG00000034908.1	<p>GCTCCTGGTAGCTCCGAGTTCTGCGCGCGTCCGCCGCCCTTAAAG GGCCCGGCTCCGGGAAGCCTTCCGGGCCAGGGCCACCGCCGCTCGG CTCTCCGGGCGCGAGCGGACCGGGTCTCCAGCCGGCTGGGCCG GGCTGGGCCGGGCTGGGGTAGCGGGTCCGCGGTGCCGCCCTCGCGAG CCGGATCCGCGCGAGGCCAGGAGCGGCTCCAGGGAGGGGACGCG TCCTATCTGAGGCCGGGTTAAAGTTCTGGTCCCGGTGAGATGCTG GAAGTGTCTGCGGCAGCCGCAACGCGCCCGGTGCCGCTCCCGTCCG CAATCCCCGCGCTCCCGGCCATGATCGCTGGCGTCTGCCCTTGT GCGTGTCTTTGGTGGCCTCCGTGAGAGCCACCTGGGGGCCCTGGG GCCCAAGAACGTCTCGCAGAAAGACCGGAGTTTGGAGCGCACCTAC GCGGACGACGTCAACAGCGAGCTGGTCAACATCTACACCTTCAACC ACACCGTGACCCGCAACCGGACCGAGGGTTGCGGAGTGTCTGTGAA TGCTGTAACAAGCAGAAAGGGGGCCTTTGCTGTTTGTGGTCCGC CAGAAGGAGGCTGTTGTGCTCTCCAGGTGCCCTAATCTTCCGAG GACTATATCAGCGGAAGTACCTCTACCAAAAAGTGAACGAACCTCT GTGTGAGCCCCCACAAGAATGAGTCTGAGATCCAGTTTTCCTAT GTGGACGTGTCTACCTGTACCCGTCAATACCACTTACCAGCTCC GAGTCAACCGTGTGGACAATTTTGTGCTCAGGACTGGAGAGCTGTT TACTTTTAAATACCACTGCAGCCAGCCAGTACTTCAAATACGAG TTTCTGTAGGGTGTGGACTCGGTAATTGTC AAGGTGACCTCCAAGA AGGCCTTCCCTGCTCAGTCACTCCATCCAAGATGCTCTGTGCC TGTCTATGATCTGGACAACAATGTAGCCTTCATTTGGCATGTACCAG</p>

ENSMUST00000048250.1	1	139	ENSMUSG00000035476.1	ATATGTGGATACACTGAAAAAGATAACAATAATCATGTCTCAAGAA GAGCATGATATGTAACATCTCTCACACAACCTGCGACAAAACCTGT GAAAATCGTAATGGTGGGAAAACAGGCGCAAACCCATGGACTTGGAA AAGGGT GAAAGGCTTGTAAGGTGGGTTTCTGTGCGATCCCCAGGAAG CAGTCTAGCAGTCCCTACTGTTCTTAAAGGTGCCCTTGCCCTTTGTGT AGTTTTTGTCTCCCTTAGAGATGGACAACCTCCACTTGCATATTATGA GACAAGTTAGGAGGAACATATACACTACTTGACATATCTGACTAAA GGTGTCCCAGTGTTCGTAATAAGATGCTGAAATACCGACAGCATGA CACTTGTCACTTGACCATGAAAGAAGCATGTGTGAAAAGTCTGATG CTTTATTAATAACTATTGCATGAAAACCTACCAAGGTCAATAAGCTG TTAACATACAGTAGATGC
ENSMUST00000038384.1	1	64	ENSMUSG00000035851.1	CAGGATGCAAGATTTTTTCCTCATAAAGAGTAATAACCATGAGAATG TGTCTCTTGCCAAAGCA AAGGGT GTATGG
ENSMUST00000049411.1	1	27	ENSMUSG00000035960.1	AGGCAGACTCCATTTCTTTGTGCCGT AAGGGT CTCTGGCTTCGTTGG GAGGCGAGCGAGTAAACACTGCTTCGGTGTCCAGGAGCTTAAGGG CTTTCGTACAGCG
ENSMUST00000047766.1	1	38	ENSMUSG00000036106.1	GTGCAAGGCTCCGCCAAGGTCACAGGCGAGCAGGCC AAGGGT ACCC CTTCCCTCGCCACCTTGCAGCTTCTGGCTCCTGAGCAGGTTGAA GTTT
ENSMUST00000035496.1	4	387,421,62 2,1577	ENSMUSG00000036180.1	CCGGGCTCCATGTGTGCGGCCGAGGGGCGCATTATCTGGCCGGCGG CGCGGGGGGGCGAGCGGGGAGCGAGCGCCGGGGCCCGGGCGGG CCCTCAGGCGCAGCGAGCACGCGCGGGCCGGCGCCCGCCCGCCAG CCCTGTGGACACGCGCGCTGCCCCCTGGGCGCGGTGCGGCGCGCGC GGGTTGGCCAGCACATTGAGCCAGCACATCCACATAAGTTGCCCTT TGACAGAACTGTGGCCATGGCAGCATGGTAGGATCCGTGTCCCGGA CCCTGAGGCCAGAATGAGTGAAGAAGCATGCCGAACCCGAGTCAG AAGCGCACCCCTTGAACCTGACCTAACGGAGGATGATGTGGAGAACA AGAAAATGAAAATGGAGAA AAGGGT CATCAGAGCTGACAGTGGACGG AGACAGCA AAGGGT GATGCCAGAGCCGAGTGCAGGCTCAGCCAGGGG TTGCTGAGGACAACAGAGGCCATGGGCACAGGATCTGGCGAGGGGC TGTTAGGAGACGGGCTGTGGACATGCGCACTTACACAGTGACAT GAAGTCTGAGAAGAGACCTCCCTCGCCTGATGTGATTTGTGCTCTCT GACAGTGAGCAGCCATCGAGCCCC AAGGGT GAAATGGCTGACCACAG TAGCCTTGAAGACACCAGCACTGAGGCGCTCTTGAAGAAGCAGCCC AGAAGAACGAGAGCGGATGATCAAGCAGCTGAAGGAGGAGTAGG CTAGAGGAAGCAAACTGGTCTTTGTTGAAGAAGCTGCGGCAGAGTC AGATACAGAAGGAAGCCACCGCACAGAAGCCTACAGCTTCCCTCAGG GAGCACTGTGACCACCCCTCCCCACTCGTGGGGGTACCCAGAAC ATTCTGTGCAAGACCTCACTTCAGACCTCCTCCACTCGAATAC CCGGCAGCATCATCCACCACCCTGGTCCGAGGTGGGCAGCAGGT GTCTGCCAAACTGGGACCACAGGCCAGCTCTCAAGTAGTCATGCCA ATCAGTTTTCCGCTTACGTCCGACCTAATGAGGTTCCCCAGCAGCT AAGGGT CCTACCTAGCACCTCAAACCTTGTCTGTGAGAGGCCAG TGGGAAGAAGACTCAGCTCTCATCCGCC
ENSMUST00000040299.1	1	48	ENSMUSG00000036315.1	GCA AAGGGT ACAGCTCCTGCCCTTCACTGACGGGCGGGGAGCTGA CAGGAGCCGGGGCGGGCGGGCGGCCAGCGAAGGAGCGCACGGC GGCCCGGGCCCGCCCTGGTCTCCCGCCAGCCTCAGTGACCTTCA CTGGTTCGGGCGGGGCTGACGGCCCGGGCGGGCGGGCGGC
ENSMUST00000036509.1	1	3	ENSMUSG00000036352.1	CAGTGGCCCCGAGGAGCAGTGCAGAGTTCCCCAGCGAGGCTAGGC GAGCAGCCGGCCGGCCGGAGCGGAGAAGGG AAGGGT GGGAGCGAGGC GCAGAGCCGGCGCCGCGCACTGTGGGGGCCAGGAGCAGCCCGCGC CCGAGGGAGGGACTCGCACTTGCAAT
ENSMUST00000043098.1	1	76	ENSMUSG00000036390.1	CCCGCTCGCCGTTAGGGAGGCTCTGCGCCTCAGCCGCCACCGCCTC CGCCTCCGCTCCGCGCTCCCGCCACTTCTCCGCTGTGCCGCC GCCGCTGCCCGGGTCTCCGGGGGTGCTACCGGGCTGGCCCGC GCCACTGCAGTCGCTTACGCTCGCGCTAGAGGCGCTTACAGGAG AGACCCGCGCGCCGCGTGCCTT AAGGGT TCAGTCTCGCCTCG TCGACGTGCGCA AAGGGT CTGGAAAAGCGGCCAAGGCCGGGAACG GGGCTTCGCGGTTCACACGATTAAGTTCTGAAGTACTGATCGAGTT CTCAAACAGCCATAAATGACAGAACGATGCTTGTCTCAGTGGAGGAA GCTGGTGCAGAAGCCGTGTTTTAAACTTAGGTGTTAAGTACTCAA AGAAAAGACAGCTTTGATTTCTGGCTGCAAAAAGCT
ENSMUST00000040506.1	1	243	ENSMUSG00000036501.1	AAGATAGAAGCCAACCGTAACGCTGCTACACAGGTGCCCGAGAGG CAGGCCGCACTATCTTCTACAAGCCCTCCACGGAGAAATCCAGTG TGGCGCCATCTGATAGGTGCCAGCGAGAGCTTCCCATGCGGGCTCG GAGCATCTGCCCTATCCACTGGGCAGTCGTGATGGACTCGTCGCCA CAGCCGTGCTGCACCGCGGGGGCTGAATCTGACAGCAGTGCAGT AACTGCCGAGAATGACCACACTGTTGCGTTCTGGGCACCTCAGAT GGCCGATCCTTAAGGTGTACCTTGTCCAGACGGCACTTCTGCAG
ENSMUST00000042858.1	1	1593	ENSMUSG00000036606.1	

ENSMUST00000045604.1	1	99	ENSMUSG00000036850.1	AGTATGGTTCATCCAGTAGACATCAATAAGAAAATCAAGCAGGA CCTGGCACTGTCTGGAAACCTGTCCAGTCTGTATGCTATGACCCAG GACAAGGTGTTCGGCTCCCAGTACAAGAATGCCTGAGCTATGTAA CCTGGCTCAGTGTGTGACTCCCAAGATCCCTACTGTGGCTGGTG TGTCATCGAGGGACGATGCACCAGGAAGTCCGAGTGTCTACGGGCC GAGGAAACCGGACACTGGCTGTGGAGCCGGGAGAAGTCTGTGTGG CCATCACTGATGCCTTCCACAGAACATGAGCCGGGGGGCCCAAGG AGAGGTACGCCTGTCTGTAGCCCTGCCCACCTGACTGAGGAC GATGAGTTACTGTGCCTTTTGGTACTCACCACCCACCTGCCC GGGTAGAGGACGATACCGTCATCTGTAATTCCCCAAGCAGCATCCC TAGTACACCCAGGCCAAGACCATGTTGACGTGAGCATCCAGCTC CTCTTAAAAAGCGGCAAGTGTCTTCTCACCTCCCACAGTATCCCT TCTATGACTGCCGTGAGGCCATGAGCCTGGTGGAGAACCTGCCGTG CATCTCTGTGTAGCAACCGCTGGACTTGCCAATGGGACCTGCAG TACTACGAGTGTCCGGAGGCTTCGCCCAACCCAGAGGAGGGAATCA CAGGGAGGACCTTGTGTGCCTTGGAAAGGAGTGACCCGGTACGGCG TGTTTTAAACCGGCTCAGGCTGGGAAACCGTGTCTGAGCTGTCTCA GGTCGAAAGGGTTCCTCCCTTCTCCCTTGGGGCCGAGCTCTAGAG CCGTGAGCCAGAGCTGATTTATCCAGAGCCAGC
ENSMUST00000050641.1	1	166	ENSMUSG00000036965.1	GCTTGGATCCAGAGCCAGCCTGGGAGGAACCGGGCTGTGGTG TACCACCATCATCCCAACACTCTGTTTCCAGAAAGATGGGTGGGAA ATCAGCCGATGACCAAGTGGGAAATGAGCTACAAGATCACCTGAT CTTCATCAGTGAGAAAGCTTTCACACAAGAGGGTGTCTAGAAAT CCGTGTCCCTGCGCTCCCGTCCGCTCAGCGGGCGGGCCGGCAGGAT GGAGCCGACGACGTGCGCCCGGTGCTTGGATCCAGAGCCAGCCAGCC TGGGAGGAACCGAAATCTTCAGTACTCCTCTCGCAACATGAACGT TTAAAGCTAAAACCTTTCACAGAGATGTGAGATGGAGCAGGAGCAGT GGCTAAATGTGAACTCTTCAAAACTTGGCGTATGGGCTGTGGTG TACCACCATCATCCCAACACTCTGTTTCCAGAAAGATGGGTGGGAA AGTGAAAGTCTAATCAGTACAGCCGATGACCAAGTGGGAAATGAG CTACAAGATCACCTGATCTTCATCAGTGAGAAAGCTTTCACACAAG AGGGTGT
ENSMUST00000061519.1	1	367	ENSMUSG00000036965.1	CCGTGTCCCTGCGCTCCCGTCCGCTCAGCGGGCGGGCCGGCAGGAT GGAGCCGACGACGTGCGCCCGGTGCTTGGATCCAGAGCCAGCCAGCC TGGGAGGAACCGAAATCTTCAGTACTCCTCTCGCAACATGAACGT TTAAAGCTAAAACCTTTCACAGAGATGTGAGATGGAGCAGGAGCAGT GGCTAAATGTGAACTCTTCAAAACTTGGCGTATGGGCTGTGGTG TACCACCATCATCCCAACACTCTGTTTCCAGAAAGATGGGTGGGAA AGTGAAAGTCTAATCAGTACAGCCGATGACCAAGTGGGAAATGAG CTACAAGATCACCTGATCTTCATCAGTGAGAAAGCTTTCACACAAG AGGGTGT
ENSMUST0000000506.1	1	9	ENSMUSG00000037017.1	GATTTTCGAGAGGGTGGGACGGGTTTTCAGGACTGTGGTTCTGGTTCG GGGAGTTCCATGGTGGTTCGGGAGATTGAGGAGGAGCGCCCC GCCAGCCGTCGTGCGCGCCCGCTTAAGGAAAGGCTTTTCCACCC CCGAGGGCTCCCTGGAACAAAACCTGATCTTTTGTCTCCGGAAT CGCATTTCTAGTCTCTCCGTTATTTGTCTGTACCTGACGGAAACTG CCCTCTTCTTCCCAAGAGCCCTGAGATCTAAACTCAGAACT AATTTGTAAGAATAAGCCCAAGTGTAGAAACCTCTGAAAACCGAA TCTCCTCAGTCTTGAGTCTTGTCCAGTCCAGGCGGGGAATTTGGTCC CGGTGGGCTTTGTGCGCACTGGACAAGGATTTGTCAAGTCTGGAA AGATTTTTCAGACGATCGTTTGTAAAACGCGTATAGGATAGAAAGGT GATTTGATTTATTTGGTGGCTGACATAGTTGGAATCTGTTGAAAGG GGACTTAAAGAATTTGTGAACAACAACAACAATAACAGGA AAATTTGTTTTCAAGTGGTGGAAAGGCTTCTGAAGAGAGACTGAGTA TTGGTTCAGGGCTATGAAATGATGCAGAAATTTGGTCACTCTGAG CTACTAGATCTGCCAGTAGTTATGCTCTTCAGAAATTTATGGCCGTG CCTGGAAGCTTTTGAATAATGATTTGCTCGGTTTGGAGCGGGGTC TTACTGTATGGCTTACACTGGTGTATAATTTGGTGTATCTCCTGTCT CTGTTCTCTTCAGTGTGTAATTTACAGGTATGCACCACCACGACTT CAGCTTGGAGTTTCCAAGTGCAGAGTGTCTTAAGGGCATTATCTAC TACAAGGTTTGAAGAGTGGCACTTTAAGAACCAGAAACCCAAAGGT ACCAGGTCTACTCTAAAAGTCTGCTGGCTCGGGAATCTGTG TCAGTCAACCACAACGAAGGGTAACTCAGGTGTCTCCAGCGTTACCC GGGCCCCGAGGGCCAGCCAGGGCTTCGGCCTGTGGGCGCTGGAGGG GCAAGCCAGTCTGTCTACGAGCTGGCA
ENSMUST00000046983.1	1	17	ENSMUSG00000037049.1	TCAGTCAACCACAACGAAGGGTAACTCAGGTGTCTCCAGCGTTACCC GGGCCCCGAGGGCCAGCCAGGGCTTCGGCCTGTGGGCGCTGGAGGG GCAAGCCAGTCTGTCTACGAGCTGGCA
ENSMUST00000042512.1	1	41	ENSMUSG00000037262.1	GAGCCAGTTCGCTTCCGACCGCTTTGTAGTTGTAGCGCTCAGGGT CGCC
ENSMUST00000041418.1	1	1172	ENSMUSG00000037286.1	AGCAGAGGGCGGTCCGGACCCGAGTCTGCAGCGGCCCATTTGGCGT GTGGAAAATGCCACCAGATGGCGGGTTAGGATTCAGCTCCGTTGA AGGCGCGGCCCGCTCCGAAACCCCGCGACCAACCCGTAACCA CCCCCCACTCGGGAATAACACACCCGGAGACTTTTGGGGGAAAC TAGGTCGACGGCCGACAGCGCCCGATGGGCGAGTGTGGTGTGACT TTGAGGTTGAATAACCAGTTTGAATTTATACAGAAATTTCTGTACTG TGGAATAGCTTCTCCAGCAATGATTTACTTCAGAGTTACCAAGTGT CAGGATTCAACTAATGAACTACTGCCCCACTCTGATGTGGCAGCG AATTTGAAGAAACAGAGGTCAAAGGAAAAGAAAAGGGGTCGTCC TGGCCGGCTCCATCAACAATAAGAAACCTCGAAAATCTCCAGGA GAAAAGAGCAGAAATGAAGCTGGAATTCGAGGAGCAGGTCTGTGAA GAGCAATGGGCACCCCAACAGAACGGCGACGGGATCTGTAC

ENSMUST00000043296.1	1	218	ENSMUSG00000037544.1	<p>CTTATTTGAGGTGGTGAAGCTGGGGAAGAGTGCATGCAGTCCGTC GTGGATGACTGGATGAAATATATAAAACAGACAGGGACATCCGCAC TTCTGGATTTAATCAACTTTTTTATCCAGTGTTCAGGATGTCGAGG TACGGTCAGAATAGAGATGTTTCGAAAATATGCAGAACGCAGAAATA ATCAGAAAAATGACTGAAGAATTTGATGAGGACAGTGGTGACTACC CCCTTACAATGCCTGGTCCCTCAGTGGAAAAAATTCGTTCCAATTT TTGTGAATTTATTTGGAGTCTGATTCGACAGTGTCAATATAGCATA ATTTATGATGAATAATATGATGGACACCGTAATTTCCCTTTTGACTG GTTTGTGACTCCCAAGTCAGAGCTTTTAGGCATACAAGTACCCT TGCTGCAATGAAGCTGATGACTGCTGCTGGTGAATGTTGCTTTAAAC AGTTTATAGTGTGTCGCTGCCACGCCTAGCGGGTTTACCGCCCTCCC TCCTCCCCCTCGCCCTCCCGCTCCCAACCCTTTGGCTTCCAACAA TTTAAATGTCGCACAGAACCAACCTATCGCAAGCCTCGTTTCGAGGG GAAGGGCGGGAGCTTCCGGAAGTGTGGCAAAAGTCCCTCCAATC AGCGGCTGGCAGCGGAAATTTTCAGTTCCTGTGAAGGGTCGGTCCGG GAGTTCCTTCTCGGATCGGTGGAGTTTTCTGTGTTGCGACATTTG TGTGGATCCAGAAACTGCTTCAGG</p>
ENSMUST00000045457.1	1	16	ENSMUSG00000037677.1	<p>AGTACCTTCCCAGCAAGGGTTACTGGGCATTTCTGGACCGTAACCC TCGCTTGCA</p>
ENSMUST00000047074.1	1	145	ENSMUSG00000037777.1	<p>ACTCCTGCTCCCGGGCCCTTCTTTGTTTTCTCCCTGGGTTTGT TCTTCTACCTGGCTTGGCTGTTTCTTCAATTCACTTTGGAGAAGAGC CCGTCTCCAATCGCCCAAGTTACACAAGTGCCTGGGGCTCTCTGGA CTTGTGAGGGTCCCTGCTACTCTGACTGCCCTGGTATCAAGTTACT GAAAGTCTACACCAGGCAGTCCCTCATATTTACATACAAATAACTC CTGGGTTTGGCTTTTATGTCACTATTTGGGTCCTGCAAGAGGCTTGCC AGAGCGTCCCTAATCCAATCAGGAGGCCTTTGAAAGGATGCTGTGT TGAGCGGTCAGAAGGATGTTTCGTCGCTATTAAGTGTGGCCACACAA AATTTTTCGCATGTTTCGGTCTGAGTTTTTTTTTTTTTTAAATCT TCGGAGTTAAAAAAGTGAAGGATGATGTACAGCTGCTCAGTTGCCT TCGCAGCTTGGAGATGCTGAGGAAACGCTGCAGCCCTGGTGAAG AAGATCTGACTAGGACGGGTTTGGATCCATACCAGGCTGGTGTGG ATTGGGGCTGGTGTGGACGGCTTACTCTAAACCCTGCTTAAAGGAA TTCTTGGAGCCCTCGGAAAGTACTCCCAACCAGTCTGGTGGAA ATGGCTTTGCCACACAGTAAGATGCCATCACAGGGGACACTGACAA GTATCTCGGGCCACAGGACCTTAAGGAGTAGGTGATGACTCCCTG CCAGCAGAAGGTTACGTAGGCTTCAGTCTTGGAGCCCGTTCTGCCA GCCTCCGCTCCTTCAGTTCGGATAGGCTTACACCTTGAACAGAAG CTCCTACGCAAGGGACAGCATGATGATAGAGGAACTTCTGGTACCA TCCAAAGAGCAGCACCTGACGTTACAGAGGGAGTTGATTCTGACT CCCTCAGACACTACAGTTGGGCAGCGGACAGCTTAGATAATGTGAA CCTGGTCTCAAGCCCGGTGCATTTCTGGGTTTCTGGTTAGCTTTATG CGGTAAGGCTTGCCGCTCCCTGCCATGCGTTTCAGATCTAGCCGGGA TGGCCAGCGCCGACCATGACCTGTTCGTGTTTTCTCCCTCCCAAAC GCAGGCTCAAGTCCACCCACGCCCAAGTTCTCGGTGTGCGTTCCT GGGGGACCAGCAGCACTGTGATGAAGCCAAGGCCGTGGATATCCCC CACATGGACATCGAGGCGCTCAAGAAGCTTAACAAAAACAAGAAGT TGGTCAAGAAAGCTGGGTAGGTGGGCTCACTAGGGCTGAACACAA CCATGACCCCTGCCAGGAGTGGCAGCACACATTTGGGCTTCACAA CCAGTTAGAAAAATGCCCCACAGGCTGGTCTGATACTCCCTCTCGC CAGTGTGTGCACTGACTCATAGCCAGCTATTGGTTTGGGTTTCAA GCTTTTTCAGTTAACAACCTATCGAGGGAGGGGTCACAAGTGTCTC CCACGTGTTAGCCTCCATGGTAGCCCTGTCTCCGCATACATTTTG GGAATAGTTATCCACTGTGAGCTAGGCAGTTGTGATGCTGCTTTT ATAGATAGAAGGTTTCTCCATCTGTCTTAAGATTGGAGTAATACT GAGTCTTACTGATGTTGCCAGCCTGGGGTCTAAGGTTATCCCTTAG AAGTGTCTCAGGACTGTGCCCTGTCACTGAGCTGTGTTCTCAGGTGA CATTATGGTTCCAGGCCCTGCTTGGGCTTCTCAGATAGCTGGCCT TGGTCCACCTTTGACAGATAATGAGACAGCTTTTTTCTTAAGATTT TATTTTATGATATATGAGCAGGCTGATGAGAGCCTCAGATCCCATTA CAGGTGGCTGTGAGCCACCATGTGGCTGCTGGAAATTGAACCTCAGG ACCTCTGGAAGGCAGCACTCTTAAGTGTGAGCCATCTCTCCAGTC CATAGTTTGGAGCAATTTAAATGCAGGCTTACAGTGAATCCAAGGG GTGGGGCCATCACAGCCCTCAGTTCTATGAGCACACACAGGGAT CGTGCCCGGAGCCCTGGGAAAGAGGGAGGGAGGGAGGGAGGGTC GTGGCCGGCCGCC</p>
ENSMUST00000049974.1	1	1051	ENSMUSG00000037805.1	<p>CAAGACTGGTCAGCGGCTCCCTAACCCCGGGCTCGCAGGCTGATGA CCCTGGGAGACAGGGGCTCGAGGGGCCGAACTAGCCGCGCCGG GGCTGAGCCCGAGAGGCCAGGCTGGGGGAGGGAGGCCCGGAGGGA GGGAGTGAAGGAAGGAGGAGGGCTGGCGAGCTGGAGCCCGCAGGCG GCGGGAGCCCGGGCAGCCTCGTGGGAGTGCCTCTCCCGCAGA</p>
ENSMUST00000042891.1	1	41	ENSMUSG00000038146.1	<p>CGTGCCCGGAGCCCTGGGAAAGAGGGAGGGAGGGAGGGAGGGTC GTGGCCGGCCGCC</p>
ENSMUST00000046893.1	1	622	ENSMUSG00000038390.1	<p>CAAGACTGGTCAGCGGCTCCCTAACCCCGGGCTCGCAGGCTGATGA CCCTGGGAGACAGGGGCTCGAGGGGCCGAACTAGCCGCGCCGG GGCTGAGCCCGAGAGGCCAGGCTGGGGGAGGGAGGCCCGGAGGGA GGGAGTGAAGGAAGGAGGAGGGCTGGCGAGCTGGAGCCCGCAGGCG GCGGGAGCCCGGGCAGCCTCGTGGGAGTGCCTCTCCCGCAGA</p>

ENSMUST00000038681.1	1	93	ENSMUSG00000038503.1	GCAGGACGCAGCCAGAGCTTGTCCAGGTGACTGAGCTCCACCCCTG TGCACCAAGACACCCACCCACCCCCACTGGTCAAGCCTCGCTGG AGAAAGAGACCGGGAAGTCCCAGCATGAGAATCAGAGCTGCCAGC CAGCTTCATAGATGGGGAAGCAGCCTGCTTGCCCTCCCCATCAATT ACAGGGATAACTGAGAAAAAGCCCCACCCAATATGGAGGCTGAGGA CTACCGCCTCTATTAATTCCCTGCCTTCTCCCTGCCCCGCCACC TGGCCTTAGCTGGGTCACTCATGCAATGCTGAGAAGTAAGCAAGAC TTGGGGTCAGCTTGCTGGCTACCAGGCAAGGACTGTGGGCATCAT GGGGTGTGTGTGAGCGGGGCTCC AGGGT GAGACCTAGCCCCGCC CCCAGGAATCAAGGGGGTGGGGGTGGGGCCGAGGATAGA CGGATGAGGTCGGACAGGAGGAACCAGAACGAGGCGGGGTGCGGT AGGCTACGGACTCCTCGGAGCGGAGCCATGGGACTTGAGTCCGC AGGGT GGGACGGGGTCAAGTACTGGGTTT AGTT TGCGCAGAACA CGCTTAGGGACTGGATTGGAAGCCGGGGCGGGTGGGGCGGAGG CCCCGGCTCCGGACTCCGCACGCTGTCTGCGCAGGCTCATTTGTC CTTACGCTGGGCAGTCCGTTACGCTAGGCTGCTAAC AAAA TGAGAGGGCTGGACGGGAGAGT GAGTGTGGGGCGGAGCT AG GGT CTGTGTTCAACGCGCCGAGTCCCGGCTTGGTCCAGGAAAA GCTGCTTGCCTAGGGGCATCCCGCTGCCTGGTGAAAGGAACCGC AGCACAC AGGGT GGGAGGGCTTCCGATTTTAG
ENSMUST00000052687.1	2	44,145	ENSMUSG00000038525.1	ACACTGGCTGCCTGGTGCCTCCGCGAGGGGGCTGTGCCGAGCCGCA CATCCGCGGGCTCCATGTTCAACGAGCTGCGGTTCAAGCTGAGCCC CCCCGAGCTCGCGCGGGGCTGTGCGTCCGGCTTCCGGGAGCGT CCGGATGTGGACGGCCGAGCTCTGCTTCGACTGAATGCAGATAAGC TGCAGAGAA TGGGGTTGACCCAAGAGGC TCAGAGGCAGGAGGTGCT GCAGCAGGTACTCCACCTGCAGGTTCGTGAGGAGGGGGCGGAGCTG AAGCTGCTCAGCCAAGCTTCCCTCGAAACATGTCCTAGCTGCTGC CTATACTTGGACCCAGACCCCAACACTGTGACAGAGCCACAGC CAAGAATGAGTCAGAAT TGGCCCTACAGCCCTTTGGATCCTGCAG GATACCC TAGTGGCTAAACCTAGCCAGT GATCAGGGAGGCAAG ACTTCCACCTCCAGGTGCTCTGGAGAGGCAC TACAGGTTCTGCC TGTGGCTGGGTGGTGGTGGTGGCTGCTTATAGACCCCTCTCTG AGATCCAAGCCAGTCCATCCCTGGTGTGCTGGCAGCAA ACA AGGT AGCTGCCTGGA ACTAGAATGGGGTTGAA TGTCCCGAGACT CCAGGGAGTCTGTTTATTTATTTCTCCCTCCAACATGTGACCATCCC CCATCTGAGTCATGAGTCTTCCCTTAAATCTTAGTCTGTGTCTT TCCCGGGCACCC CAGATCAGCCACAGTGGGCAAGCTGTCTTG GCTCTCTTCAAGTATATCTGTCCCTAGCTCTCTTAGAGTACAGC AGGCCAACCTGCTGTCCATACTA GCGCGCAG AGGGT TCAGGGGTACGGCGCGGTATCTTGTGGCGGGA AAAGCTGTTT TGAGGCG
ENSMUST00000060173.1	1	597	ENSMUSG00000038605.1	ATTTCCCAAGGCCGGCGGAGCCCACGGCTTCCAGGACTTGCCTGC TTGACACA ACTTTTCTTCTCTCTGCTCTGAGAGCCTCCTCCCGCG GCTTCTTCTTAAGCTCGTCGCAG AGGGT CACGTGACGTCCCAC GTAACGGAGGACGGAGCGCTCCCGTATTGCCATTTGCAGGCG CCTAA AGGTGCCCCGGCGGTGACGTATACTCGCGCGCGGGCT GAGGAAGGGAAAGGGCCAGCCTCCGAGCCATCGGGTCTCCACGCGC GCGTCTT TGCCCGCACGAGTGTGCGGA ATTTCCCAAGGCCGGCGGAGCCCACGGCTTCCAGGACTTGCCTGC TTGACACA ACTTTTCTTCTCTCTGCTCTGAGAGCCTCCTCCCGCG GCTTCTTCTTAAGCTCGTCGCAG AGGGT CACGTGACGTCCCAC GTAACGGAGGACGGAGCGCTCCCGTATTGCCATTTGCAGGCG CCTAA AGGTGCCCCGGCGGTGACGTATA AAGCTTAAATATGACTACCTCGT TGTTGTTGAAAAATATGTTTAGGA GAGGAAGCTGATGATTTGATA ACTTGTATTAATAACCAATTACA TTTATAGGACCTTTTAA ACTCGGTGCAATTAACCGTGTCTTTT ACATTTTCCGAAGCGACCTGACATTTAGAAAGACTCCAAT TGCC TCGTTAAATCGCGAAATTAACAGCGTGCCTACGCCAGGCTCAGCG TTGTGGATGTGTGTGATGGTGT TTTCCGTGACTCCCCACATCA GTCTTTGGGGTGGTCTGCGAAGGTATTTGATTTGTTGTGAGCA GAGATATCTCATTAA TGTAGGTAGTTAAACAGATTTAATCCGTA TT CGTTCTCTCTCTCCCCCTCCCTCTCCCCCTCTCCCCCTCTT TCTCCCTGGGTGTT TTTTTCTCTCCCCCTCTTTTTTCTGCCCTC TCTCACTCCCTGGCGCTCTCTCGCTTAGCTCTCTCTCGCACTCG CTCTCTCTCGCTCTCACCTCGCTCTGCGT CTGTCCGGGAGGAGT ACCCAGAAGCCAATAGGATGCGGGTCTCTAATGGATGCAATGAT GGTGAAAAGACGGGGCAAATATGAAACACTCATTTGGAGGGAA TAAATCACCGAAA ACTGTTTATGAACTGGCATCCCTTCTCGAAAT GTAAGCGAGGACCTTT TAAAGTGGCGGTATATTTTGTGTTGGGG GTGGGGGTGGGGGAGGGCGAGCGAGCCGGCTGCCATGCAGGC
ENSMUST00000049343.1	1	8	ENSMUSG00000038644.1	
ENSMUST00000049666.1	1	119	ENSMUSG00000038683.1	
ENSMUST00000046951.1	1	119	ENSMUSG00000038683.1	
ENSMUST00000052650.1	1	924	ENSMUSG00000038721.1	

ENSMUST0000049352.1	1	194	ENSMUSG00000038721.1	<p>TTAGACTTTTGCAGGCTTCGCTCTTCTATTCCTGGAAATCACAAA AGTGTGGCGGCTTTGAGATCTTCTCGTCTTTTCTTTCTTTCCCT CCTTCCTTCTTTTTTTTCCCCTCCTCCCTTTTCCCTCCTTTCCCTG GCGAGGGTGACTAGGAGCCGGCGAATCCGCGTTTTTTTTCTCTCT CTCTCCCTCCCTTTTCCCCTCCCCACCCCTCCCCAACAGCCCCC GAGCTCCGGCCCCGCGAGCGGAGCCAGGAGCTGGGCCTCCACAGC AGCGTCCCCCGCCGCGCCAGTCCCCGCTAGTGGTAGTATCTCGTAA TAGCTTCTGTGTGTGAGCTACCGTGGATCTCCTTCCCTTCTCTTGG GGTCCGGGGGAAAAAAGAAAAGGATTTAAGCAAGGACTCCCT CGTCTGCGAGGGTGATCGACTGCGGCCGTCGAGAACCCCTCGCC CCCCCCCCATGTA AAAAAGCCTCCTGTGCAATGGTCTGTTTCCCT TGAACGTGCTTCTTTGTAATGACCGAGGTACCGATTTCTGCTAAGT TTTTCCCAACAACATGAAACTGCCTATTCACGCCGTAATCTTTCTG TCTCCCGTCACTTCTCTCTTTCTCTCGCTCTCTTCTCTCACCG CGTCCCCATCTTTCTCGCAACCCCTCTCCCCGCTGCCCCCTCCCTA GCTGGCTTCTCTCTTGTCTCTTTTCTCTCTGTCGCCCCACC CCCACCCCTTTGGTTTGACAATTTGTCTTAAGTTTTCTCAAAA GAGATTACTTTAGTTAGCATGCGCGCTGTGAGCATTGTTAAAAGTG TTCTTAGGTTTACTGTGAAGAGAATGTATCCTGTATCTGTGAATTG CTTTATGGGGGGAGGGAGGGCTAATTATATATTTGTGTTGTTCCCT TATACTTTGTCTGTGCTGCGCCTGAAAAGGGCGGAAGATTTAC AATAAAGTTTACAAGCGAGAACCCGAGACTGGCCCGGGCGCCGCT CCTCATTCGCTCCTAGGCGCCTTGCAGGGCTGGGGGTGGGGGGAG CTGGTTCAGCAGGCTCCTGGGCTGGCCTAGGCTAGGTCGCTGAGAG AGGGGGCGGGGGCGGGGGCTGGAAGCAGGTGGTGCAGTCCCTGGG CCCAGGGGCGCAGGGGTGAGGGAGCGGCTGAACTGATTGGAGG AGAGAGGATCGAGGGAGGGGAGCCAAGAGAAACCCCTCCCTTGC</p>
ENSMUST0000043775.1	1	664	ENSMUSG00000038773.1	<p>GTGGAAGCGAGCAGTGCCTGGAGTTCGGGAGATGTGTGATGTGTGT GAGACAACCCTCTTCAATATCCACTGGGTCTGTGCGAAATGTGGAT TTGGGGTCTGCCTTGACTGTTACCGGCTCAGGAAAAGCCGTCCAAG GAGTGAGACAGAAGAAATGGGGGATGAGGAAGTTTCTCCTGGCTG AAGTGTGCAAAGGGGAGTCCCACGAAACAGAAAACCTCATGCCCA CCCAGATCATCCCTGGCACAGCGCTTTACAATATTTGAGACAGTGGT ACACGCTGCCCGGGGAAAGTGGGGGATTAAGCTAACTGCCCTTGT ATAAGTTCGCAAAGCAAATCTGTTTGGAGACTGCTGTACCAGT GGATATCACAGCTTCCCAGTGAACCCCTAGTGCTCTTCTGGAAA CGAAACTACCTTCTCAAGCGGAGCGGAGCTGCAGCGTACAAAT CCAGAGCCAGACCAAGTTCCCAAAGGTGCTGGCACTGACGGCAGAT CTGAGGAGCCCTAAAAGCAGAAGTTCGCGTCAAATAGCAATAG TGAATAAAAGCCATCAGGCCCCCGTGCCTGGACACAGCCCTCTCT TCTCTGCTCTGCATTGGTTGGCCGACTTAGCAACTCAGAAGCGGA AAGAAGAAACGAAAGATGCAGGGTCCCTGCGGTGCGTCAATAA GGAGTCTCATTCACCTTTGGGCTGGACTCATTCAACTCTACTGCA AAAGTCTCTCCATTG</p>
ENSMUST0000045372.1	1	132	ENSMUSG00000038871.1	<p>GAGCGTTGATGCCGGCTGTAGCGATGAATCCTCAGTGGCGTCTGCA GCACGGCGTTACCGAGGACCGGCTGCTACTGGTAGTTTTCTTGCAG ATATACTGCTGTTCTTGAACATCATCCCATGAGAACCCAGGGTA GTTACGCCACCAGC</p>
ENSMUST0000047558.1	1	29	ENSMUSG00000038943.1	<p>CCGTCTCCGTCCCGCGCGTGGCAAGTGGAGGGTCTCGATTCTGGA CAGCTTGGAGCGTCCACC</p>
ENSMUST00000035301.1	1	40	ENSMUSG00000039105.1	<p>AGAGTCTGGGTGGTGGATCAGGTGATCCGAGGGGCTTCGGAGGGTG TTTTGAGCAGTTGACTTAGGCCGTTCTCTCAGCCCAAAGTCCCTCA GCA</p>
ENSMUST00000048657.1	1	53	ENSMUSG00000039367.1	<p>GTTCCGGCTCCTCTGTGAGGAGCTCAAGTCACTCTTAGACTACCTAC CTAGGGAGGGTGGAGCAGAAGAGTCAGCAATCCGAGTTGGCTTTGT CACCTATAATAAAGTGCTCCACTTCTACAATGTGAAAAGCTCCTTG GCTCAGCCACAGATGATGGTTGTATCTGATGTAGCTGACATGTTTG TGCCACTGCTGGATGGCTTCTTAGTCAATGTGAGTGTCTCGGGC TGTTATCACACAGCTTATTTGATCAGATTCAGAAAATGTTTGCAGAT ACAAGAGAGACAGAGACAGTGTGCTCCAGTTATCCAGGCCGGGA TGGAAGCTCTGAAGGCTGCTGAGTGTGCAGGAAAGCTGTTCTGTT CCACACATCCTTGCCCATTCAGAGGCCCCAGGGAAGCTGAAGAA AGA</p>
ENSMUST00000035672.1	2	1712,3211	ENSMUSG00000039457.1	<p>CACCTGCGCCCGCCCGCCGCTTTCGGTGGCGCGGGTCCGTGCGC GCGTTCCAGTCCCTCTGTGCCAAGCGCCACCATGCACTCGCTCTT CAGGAAGAGAAACAAGGCAATACAGCCCAACGGTGCAGACCGG AGCATCTCCAACAAGGAATCTCAGATCTGATTGAGCAGCTGCAGA AGAAATGCAGACAGGTGGAAAGGAACATTTGTTGACACCGAGCCAA GATGCAGAGCGACTTGGCCCGGATGCAAGAGGGGCGAGCTCCCTGAG CACCGGGACGCGCCCTGCAGAACGTGTCTGACTCAGAAAAGCTGC</p>

ENSMUST0000044911.1	1	274	ENSMUSG00000039615.1	<p>TGTACGTGCTGGAGGCAGATTTCGGCCATCGCCAAGCACATGAAGCA CCCACAGGGGGACATGATCGCCGAGGACATCCGCCAGCTGAAAAGAG CGCGTGACCAACCTGCGGGGAAACACAAGCAGATGTACAGCCTGG CAGTGAAAGAGGCCGACCCGAGAGTCAACTGGGACACACTGGTGGA CGAGAAGCTGGACAAGCTGAGCAGCCAGAGCTTTGGGACTGACCTT CCTCTGGTGGATAGCCAGGTGGAGCAACACAACATCTTCCACAATG AAGTCAAAGCCATCGGGCCCCACCTGGCCAAGGACAAGGAGCAGAA CAGTGAACTCCAAGCCAAGTATCAGAAGTTGCTGACAGCATCACAG GCACGGCAGCAGCACCTGAGCTCGCTGCAGGATTACATGCAGCGCT GCACCAATGAGCTGTAAGCTGGCTGGACCAGCAAGCCAAGGGCCGCAT GCAGTATGACTGGAGCGACCCGAACCTCGACTACCCAGCCGCGCCG CGCCAGTACGAGAAATTCATCAACCGGAACCTGGAGGCCAAAAGAAG AAAGAATCAACAACTGCACACTGAAGGTGACCAACTGCTGACAGC TGAGCACCCAGGGAGGAACCTCCATTTAGGCACACATGGAGGCTGTG CATGCTGAGTGGAAGGAGTACCTGAACCTGCTCATCTGTGAGGAGA GGCCGACGGCAGCTCCTCCCGATTCCCGAGGAAGCCCTCGAGAGC GGTCTGATCTGCGGGCCTCTTTCTACCTCAATTCGCGCTTCCCTA CCGGCGGTCCAGACGTTCCAGGCTGTGCGGTGAGCCGCTGTGTGC CCTGGTGGTGCCTAGGACCCGGCCCTAGTGACCGGCCCTCGGAAG GCCACTTCTCAATGACCGCTGCCAGTTCCGCCAGCTTGGGGCCGG AGGGCGGGGCTTGAGCGCCGATGGCGGAGCCTTGGTCTGAGAGAGG GTAGGTCTCGGTTACTGTAGGGCGGGCCTGTAGAGCGGGCGGAA GCTTCTCAGAGCTAAGGGAACCTGCTCAATCCACGAGGCTCCGCT TTGCTCAGCTGTCCCATGCCAGCTCCGCCACACCGGAAGTTCC GGTGGCGGATCGCCGACCGGGCGAGCTGATCGCTGCGCGGGCTGC GAGATCTAGGTGGCCGGCGGGAGCCCAAGCCGTGCCGCGGGCC CC</p>
ENSMUST0000044268.1	1	81	ENSMUSG00000039660.1	<p>AACTGGCAGGCGCGCGGTGGGCCCTGGAAACATGGCGGAGCGCCCGA GGAAGCGTCCGTGTGGTCCGGGTGAACATGGCCAAAGGGTTGAATG GCGAAAAATGGAAACAGCAGAGTAAGTAAAAAGCTGAGGCCGGGTTG GGCAAGCGCACTGAGCCCTCCCTTTCACAAACAGCTAATGGCC GACGAGCCCTCTTTGGGTCTCAGTGTATCCAAGTGAGTGGTGGCAG CCTCTCCAGAGCCTAGGCTAGCCAGCGAGAAGGAACCTCTCCCTCC CATGTCAAGTCCCTTCCCTCCAATAATTTCTCCAGAAAAAGAGGAGA AAAAGAAGTGAAGGACCTCAAGATA</p>
ENSMUST0000048724.1	4	295,301,11 12,1360	ENSMUSG00000039807.1	<p>CCTGTGCCACAGCAAAGGCACGGGAAAAATGGAGAGGGGGCAGCTG GATCTGGTAGACGAGACAAAGCTTTTATTTGCTACTAGTACTGAAGG GACGACAAAAGGCATCATGTTAAACACAGTCAAGACTGGAGATGCC ACCACCACCTTCATCAGAAGTGGGAGAGAAGGGGACAGCCTTACCTT GCACCAGTATGAGCGCGACGAAGGCTTCATGATGGGTGCTTGCC TAAAAACATCCCTCCAGGTTGGGGCAGAAGCCAGTGAATGCACT GTTTTTGCTGCAGCTGAACAGGGTAGGGTGTTGTACAGAAGGAT TTGCTGAAAGTGAGATTTTGCTTACAAGCTCCAAGGAAGGAGAAAG TGGAGAATGTGCTGTGGCTGAGTCAAGACAGAGTAGCAGGTTCC TTGGCTGCTCATACAGTTCAAGCTGAAGCCAATGTGAACAGTATTA CAACAGAGGAAAAAGACGATGCAGTAACAGTGCAGGCTCTGAGGA AAAGTGTGGTGGATCTGCATGTACAGTTGAGGGGACGGCTACTTTT ATTGGTGAAGTTGAAAGTATGAGCTGTTACAAGTGTGGAACGG AAATAAGAGCAGGATCTCTGAGCAGTGAAGATGTTGATGGGTCCCA AGAAAATAGGATACAAGTTGGTCTTAAAAAAGAAACAGAAAGCACT GTGACATGTACTGAAACCAAAGGAAGAAATGATAACTTTCATTTGCT TGGTAACTAGAGTAGAAACCCAAGAGCAACGCTGTAGTTACAGGTGC AGATGTGGTCCAAGTAAATGCTGCTAAACCCCAAGAGGCAAATGCC AATCAAGGAGATGGTTCTGGAACCTGATGGTGCAGAAGGTGAGAGTG CAGTACCAGCACAGGCATTACTGAAGAAGATGGGGAAGCATCAGC AAATTGCACAGGCTCAGAAGACAACAGGGAAGGCTGTGCCATAAGT TCTGAAACAGAAGAAAGTGCAGAGAGTGCCATGGACAGCACAGAAG</p>
ENSMUST0000049149.1	2	205,399	ENSMUSG00000040249.1	<p>GCCAGTGCACAGGAGGCGGAAACGGGGGAGCCCTAGTGTCCCA TCAGGCCCCCTACCAGGCACCCCATCGGGTCCACGCCCCCCACCC CCCACCCCGCTCCTCCCAATTGTGCATTTTGCAGCCAGAGGCGG CTCCGAGATGGGGCTGTGAGCTTCGCCCTGGGAGGGGGAGAGGAGC GAGGAGTAAAGCAGGGGTGAAGGGTTGCAATTTGGGGCAGGGGGC GCACCCGCTCAGCAGGCCCTTCCCAGGGGGCTCGAACTGTACCA TTTCCCTATGCCCTGGTTCGCTTTGCTTAAGGAAAGGATAAGAA TAGAAGAGTCGGGGAGAGGAAGATAAAGGGGGACCCCCAATTTGGG GGGGCGAGGACAGAAGTAACAGGACCAGAGGGTGGGGCTGCTG TTTGATCGGCCACACC</p>
ENSMUST0000062861.1	1	6	ENSMUSG00000040472.1	<p>GTGCAAGGGTCCACGGGACGGACGGACGGGGGGGGGGCAGTCTGCTC TCTATATGCGCGGCTGTGCTCGGCCCTGACGGGTGGGGCTTCGG AAAGATCCGTGGGACGGAGGCCGTGGTTGTGGTGAGCGCTTCCTC CTGACCTCACAGTGCAGCCGCCGCCCTTTTAACTCACGGGGA</p>

ENSMUST0000002393.1	1	6	ENSMUSG0000004072.1	TCCTTATCCTGGGCCTGCTGGCAGCTTCCGGGAAACACCTGGGGGG CGGGGCCGTGTGGCGGGGTCTGTGATTGACATCTCTTTCGGCAG ATTGAACGGGCTGCCTCCGGACCCCTCCCTATCGCCAACGCTGA GTGCA AGGGT CCACGGGACGGACGGACGGCGGGCGGGCTGCTC TCTATATGCGCGGCGTGTGGCTCGGCCCTGACGGGTGGGGTTCGG AAAGATCCGTGGGACGGAGGCCGTGGTTGTGGTGAGCGCTTCCCTC CTGACCTCACAGTGCAGCCGCCGGCCCTTTTAACCTCACGGGGA TCCTTATCCTGGGCCTGCTGGCAGCTTCCGGGAAACACCTGGGGGG CGGGGCCGTGTGGCGGGGTCTGTGATTGACATCTCTTTCGGCAG ATTGAACGGGCTGCCTCCGGACCCCTCCCTATCGCCAACGCTGAG CCGAAACCATG
ENSMUST00000045141.1	1	11	ENSMUSG0000004072.1	AGGGGGTGCA AGGGT CCACGGGACGGACGGACGGCGGGCGGGC TGCTCTTATATGCGCGGCGTGTGGCTCGGCCCTGACGGGTGGGGC TTCGGAAAGATCCGTGGGACGGAGGCCGTGGTTGTGATTGAACGG GCTGCCTCCGGACCCCTCCCTATCGCCAACGCTGAGCCGAAACCA TG
ENSMUST00000049228.1	1	16	ENSMUSG0000004076.1	GGCGGTGTGGTTGATT AGGGT GCTGCTTTCAATCGTGTGGCCTTTG GGAACCCCGGTAGCCACTGCCCGCTCCTTCTGTCTCCGCC
ENSMUST00000045035.1	1	29	ENSMUSG00000040564.1	CATGGCCCTCCTGAGAGATCCTTAGATCC AGGGT GCCCTCCAACC AGG
ENSMUST00000046478.1	2	148,171	ENSMUSG00000040644.1	CTTCATCCTTCAGGTACCAGCCATCTGGGCAGAACTTAAGCTGTGG AGACTGAGACCACCCCTCCAAGGATCTCGTCTGAGCATCTCTAGTG ACCTTCTCTGCATTAACCTGCAGTGTACGGATATTTTAGCTCCA AGTCTTGGC AGGGT GGGGCACCTATCTGAGGC AGGGT TTGGTGCC CCTCCCACTGACCCTACATCCCTGGCTGCCGTGCTGTACTTCA GG
ENSMUST00000040428.1	1	52	ENSMUSG00000040904.1	TCGCTCTGCGCCGCGCAAGTCCCCAAATCCAGCTCCTGTCTTAGCA TTTCC AGGGT TCCCTCTCCGGCTTCTGTG
ENSMUST00000047013.1	1	187	ENSMUSG00000041012.1	GCAGTCCACTGCCACCGGTGCCAGCGATCCCGTTCCCGGGTCTCC GAGCAGACCAGAGTGCCTCGCCGAGGTGTTGGGACACTTGCCTGA CCTGACCCCTGGAGATCACCCGGGTTCGCCCGCTCCCATCATCCGC GATTCCTGGCCCGCATCTGAGCCAGGGAACCTATTGGGTGGG GGT AGGGT CCTCGGGGACCCGGCCAGCTCCCGGGGCGAGC
ENSMUST00000035875.1	1	41	ENSMUSG00000041431.1	GGAACGGCTGTAGTGTTAGTGTGGATAGCCAGAGGTT AGGGT G TCTTCTCGAATCGGGGAACCTCTGATTTTGGAGGAGCC
ENSMUST00000047629.1	1	939	ENSMUSG00000041438.1	AGGTGGATTCCTCAGTCTCTGCTGGCACCTGCGGGTACCCACGTC GCAGCTGGTTCCTTAGACTACATTAGCGTGTGTTGATGTCAAATCAG GGAGCATAAATTCGTAAGATGGTTTTAGATAGGCAACACCTGGGAGT GACTAAGTCCAGGTGCATAGTGTGGGTGTTGCCCTCTTGTCCGAC GGCACTGTATAAGTGTGGACTCTGTTGGAAAGGTGCAGTTGTGGG ACTCTGCTACTGGGACACTCGTTAAGAGTCACTCTGTCGCAATGTC TGATGTGAGTCTATTGCTGTTGCTGATCAAGAAGACAGTTTTTGTG GTGGGACCCGCCGAGGGCACGGTATTCATTTCCAGCTGGTGTCCA TGACTTCCAACAGCAGTGAAGAGAGTGGGTGCCGACGAAACCGTT CCAGCATCACACTCATGACGTGCGTGTGTGGCCACAGCCCAACA GCCCTGATCTCAGGAGGCCACCGACACCCACCTGGTTATTCGGCTC TCATGGAGAGAGTGGAGGTAAAGAATTACGATGCTGCTCTCCGAAA GATCACGTTCCCCATCGCGCTCTCATTTCCTGTTCAAAAAGAGG CAGCTTCTCCTTTTCCAGTTCGCGCATCACTTGAAGTGTGGAGAC TAGGATCCACATCTGCAACAGGCAAGAACGGAGATACTCTTCCACT CTCTAAAACGCAGATCATCTCCTGCACCTCAAGACAAAGGGCCCT GAGAACATTATCTGAGCTGTGTCTCCCGTGTGGAAGCTGGATAG CCTATTCTACAGCTCTCGCTTTTTTCTCTATCGATTGAAATATGA ACGCGATAACATAAGCCTCCAAAGAGTTTTCCAAATTGCCATCATTC CTGCGCTCTGCCCTTCATATTCTGTTTTTCTGAAGATTCAACAAAGC TCCTTGTGGCATCCAATCA AGGGT CTCTGCATATTGTTTCATCTGTC GGAAGGAAGCTTCAAGCACTTGCATACTTTCAGCCGCGCAGTCAAGT AACAAATCGGCGCGGTGCGCCCGAGGGGGCGTGTGCGCACAGACT TCTCCATGAATAACCGCTGAGTTTCGTGCTGAGTAGAGGGGTGT ACGCGTGTCTCCCGTGTACACACTGCTTTAGGCGCACCCGGT GTCGCGCGGCGGGGAGAAAGGAGGGCAAGAGCCGGTGGAAAGGCA ATAGCCTAAAGAGCAAATACTCCCGCCGTCGGAGCCCTTCCCTTC TCCCGCCCGCCGCTCCCTTGGAAAGACTTGGAGGCCAAGGCCGC AAGAGGCGC AGGGT GGGGCTGGGCGGAGCTGGCGGTCCCTTAGAAA CCTGGGACGAGGCTTTACCGGGGGGACCTGCGCGCGCCCGGTA CGTCCGAAGCATGGGGCTCGAGGCTTTTTCAGGGCGAGTAGGTAG CGGTTGGTTAATGATTTAACCCTGGCTTGGGACGTTGAAGGCTGC GATCTGATCTCTGGCTCCTCCCATTCCTGGAGCGCCCCAGCCG GAGGAACAAATCTGCCCTCCTGTGCTGTGGCGTCTGCTGGAG CTGCTTTCCCTTTGGGGGACCCCTGGTTGCTGTGGCCCTCTGAT
ENSMUST00000041997.1	1	286	ENSMUSG00000041598.1	

ENSMUST0000048046.1	1	71	ENSMUSG00000041732.1	TGCCCTGTCTACCCCTTTCGATTGCTGGACTTCAGATCTGACCCCAT ACCTGCCTGTGCTTGGGAGTGCACAGCTCCCCCGCAGCCAGCAC G CTGACAAGGAGATCTGTGGAGTTTTTCTCCAAGTGAACCAATCCCC TGTGTCTTGCTCAGACTGTGGTT AGGGT GGGCACATCCACTCTGC CATCTTAAACACACAGAAACCAACATCAGTGTCCAGTAGCTTAC TA
ENSMUST0000038945.1	1	132	ENSMUSG00000041801.1	GAGCGGTGGAACATGTAAGGGCACATCCCGCCAGCAGCCGCCAGC TCGCAGACGAGCGCAGGGGAGCGGGCGTGCAGGGCGGCAGGCAGC GGGCACCGGGTAGAGGCTCGGGGAGGTCGAAGCGGCGCGC AGGGT CCAAGCCGGCGGAGAGAGTAGCATCGCACAGCCTCCCGGTACC CGTGTCTGCGAGGCGGCCCGGGCCGAGGCTCGACCCGACAGGGA GCAAGGCCAACAGCTCCAGGGCGCAGAAGCCGGCGCTGTAGAGC CGGGACAGCCGGGATCGCCCGAGCCTCCAGAGCTGTGGAACTCG GGGTGCC
ENSMUST0000048966.1	4	426,585,18 74,2505	ENSMUSG00000041852.1	TGAGAGGAGAACTGCCCCCTTTCCTTTTCTTCCCGGTTTCTCGC TTTCCCTTCCCTCCCTGCCTCCCGGGGGGTTGTTTTCTGCAGCC TGCATGCTGTGGGCTGTCAAGGGGTTTGGGGCAAGTGCAGGGGA GGATGCAGCTGCAAAGGAGGCTGCTGGCTGCTGTGTGTGTGTG AACAGTATGCAGTCGTTTCGGGAGCAAAGCAGTTACCACGGAAC AGCAGAGCTACCCACAGGAGGTGCACAGCTCATCCGCATAGAAGA GTTACAGCCCTCGCCAGGCCAGATGTTCCAGAATTTTGGGGAGCA GGTGGTGGTAGTAGTGGCACTGGCAGCAGCAGTAGCGGTCGACGAG GAACAGCTGTGCAGCGGAGCAATGGCTAGTGAGACCTCTGGCCA TCAAGGCTATC AGGGT TTTCAGGAAAGAAGCTGGAGATTTTACTAC ATGGCAGGCAACAAGACACAGTGGCAGCAGGAACCCACAGCCTC CTCAGCGAAGCCCTTCTGGGCTGTACAGAGCTATGGACCTCCCA GGGGAGCAGCTTGGCAATCAGTATCGGAGT AGGGT CATGTGAGC CAATTTCAAGCACAGCCTTGCCTTGGTGGTGTGTCTCATTTATC AGCAGGATTACACAGGGCCCTTCTCTCCTGGGAGTGTCTCAGTACA ACAGCAGGCCCTTAGCCAACAACAGCAGCAGCAGCAGCAGCAGCAA CAGCAGCAGCAGCAACAGCAGCAGCAAGTACAGCAGTTGAGAC AACAGCTTTACCAATCCCATCAGCCTTGCACAAACCACTGGACA GCCAGCCTTGGCTCATCGCATCTACAACCAATGCAGCGGCTCA ACTCTGCCATCTTCTGTGGTTATCAGTTAAGAGTAGGTACGTTTG GACAGCACTACCAGTCTTCTGCTTCCCTCCTTCTCCTCCTCCT CCTTCTCCACAGCGTTTCAGTCACTGGCAAAGCTATGATGGC CCTGAGTCGGCAACTTTGGATTCTGGGATCCAGGATCAATC AGGTCAGCTACATAGAGTCCACCAGGGTACATTCACGCATTC CACTGCTCTCTTGGGCTCTGTCTTTAACATCTGGGTTAACTGGA TCGTGCAAAAC AGGGT TAACAGGGCGAGAAAACAGCTGGACACGTTGC TGAGCCAGACTGTACGTACTAGTTCTTAGAAAACCGCTTCTGGAT CTCTGTGAGCCAAACAAGCTCGTCCGTCTGA
ENSMUST0000036160.1	1	149	ENSMUSG00000042275.1	GAGATGCCCTCTTAATGAGT AGGGT TAGAAAAGGAAGAGCATTCCAGG CGGGAGGAATCAAGGCCAGGTCTGAGCAGAGAGAGGCAAGGTGGC ACAGCCCCCGAACCTGAGCAGGCACC GGTAGGTGTCCCACCCGCTTGTGAAGACACCCGAAATTCGTCAA CGAGCGATCCCTCCGCGCTCCGGAACAGCCGCGCTGGTCTGCA ACCTATAAAGTAGTGCACTTTCTCTCATGGGGCTTTAGGACGAT CTCTAACGCCACAGTTACCCCGGAGCAGCGGAG AGGGT TGGG GCGGGCGAGGGCGTCACTGAGAGGCGGTTTGGTGGCGCTGCGGTAG GATCACGTGACCACAGTGGGAGGATACGCGGTGTGCTGCGTCCCTG GCCGAGGCTATAAAGGGCGGTTTAGGGCGTGCAGCCGCCATTTCT GCTTGTCTGTGCGGGTTAAGTTGTGTCTCGGGTGTCCCTTCC TCTTCCCTCCCGCAGGGCTTGGCGCCACCATGGCGTATTAGAGGC AGCAGTGCCCTGCGGCAGCGTTGGCCTTTCAGCGCGCGGAGCAGCA CCAGGCTCTGCAGCGCAACCCCAACCGGCTAAGCCATGGCG
ENSMUST0000046532.1	1	20	ENSMUSG00000042367.1	GAGATGCCCTCTTAATGAGT AGGGT TAGAAAAGGAAGAGCATTCCAGG CGGGAGGAATCAAGGCCAGGTCTGAGCAGAGAGAGGCAAGGTGGC ACAGCCCCCGAACCTGAGCAGGCACC
ENSMUST0000044156.1	1	176	ENSMUSG00000042406.1	GGTAGGTGTCCCACCCGCTTGTGAAGACACCCGAAATTCGTCAA CGAGCGATCCCTCCGCGCTCCGGAACAGCCGCGCTGGTCTGCA ACCTATAAAGTAGTGCACTTTCTCTCATGGGGCTTTAGGACGAT CTCTAACGCCACAGTTACCCCGGAGCAGCGGAG AGGGT TGGG GCGGGCGAGGGCGTCACTGAGAGGCGGTTTGGTGGCGCTGCGGTAG GATCACGTGACCACAGTGGGAGGATACGCGGTGTGCTGCGTCCCTG GCCGAGGCTATAAAGGGCGGTTTAGGGCGTGCAGCCGCCATTTCT GCTTGTCTGTGCGGGTTAAGTTGTGTCTCGGGTGTCCCTTCC TCTTCCCTCCCGCAGGGCTTGGCGCCACCATGGCGTATTAGAGGC AGCAGTGCCCTGCGGCAGCGTTGGCCTTTCAGCGCGCGGAGCAGCA CCAGGCTCTGCAGCGCAACCCCAACCGGCTAAGCCATGGCG
ENSMUST0000030630.1	1	102	ENSMUSG00000042446.1	AAGACGAAGACACAGAGATGGATTCCCCAGCCAGCAGCGGCGAGGG AGGAAGAAGTCTGTGGTACTGTGGAACCCAGAAGTCTTATTCAAG GAGCCTTGCA AGGGT GCTCAGTGTCTGGAATGACACTGAAGTATAT GTATGGGGTAAATGCCTGGAAGAAGTGGGTTCACTGGAAAAATGCC AAGGATGAACAAGGAGATCTGAAGTGGGGGGAGGTGAACTTGCCCT CTGCTAGTCCGTGTCTGACTCCTTAGGAAGTGTCAAGACCAATGC CCTCTCTCAAGAATCCTCAGAGCAAGGCTGTAAAGCCCGCTCTGTG AAACTGAAGGAAGATATTCTGTCTGCACTTTTCTGAGTTGAGTT TGGGCTTATGCCAGTTTATCCAAGAGGTGCGGAGACCAATGGTGA AAAGTATGACCCAGACAGTATCTTATACCTGTGCTTGGAAATTCAG CAGTACCTATTTGAAAATGGTAGAATAGATAACATTTTACGGAGC CCTATTCAGATTTATGATTTGAACCTACCAAACTCTTGAATAATG GGAACCTACAATACTTCTAATGGTTACATGTTCTCCCGATTGAA

				GAAGAGCAT
ENSMUST0000057427.1	1	197	ENSMUSG0000042590.1	CACATTGGCTGTAGAGGAACCAGTGTGAAGAGTGGCGTTTCTTGCA TAGCCATGGCTTTAAAATTCAAAAACCGTGGAGTGCCTGGCGTCA GCAGTGGCCAGAGAACTGAGTTAAAGAACGGAGCTCTGCAGAGTT AAAACAAAAGCCTTAAAGCCACGTGATGATACGAGTCCCGTATCCCT GAATTACATCCA AGGGT CCCTAAGCCATTGTCTTCATTGACTCCTC TTCAGGCAAATCCAATTTTGAGAATACAACTTTTGGGTCTTCAA GAGTGGCTAGCCTCGTCAGCCCTTGCTGTAAACATCTGTTATCAGA ATCCCATATCTATGTGTGGCAGAACATTATGTTATATTAATGGAC TAACATTACAAATTGCCCTTACCTTGGACCAATATATCCAGAACTT GGGTGTAAAATCTCTTCTATTTCATCACACGACCCTGCCTA
ENSMUST0000042141.1	1	73	ENSMUSG0000042699.1	GCCGTCTCGTGGAGGTTGGCGCTGCGAACTCGCCTAAGAAGGCT GTGCTCTCGGGCACGGAAAAGCGGAG AGGGT GTGAAGAAGACACC TGAATC
ENSMUST0000049668.1	1	248	ENSMUSG0000042936.1	AACTCAGCTGCCGACCACCAGGCCAAGCCTCTGGCTTGCCAGGCA GAAC TGCCT TCAGTGCAGCTGCAGCCTTCTTGGAAGGCCACTGC CCATGTTGCAGGCCAGCCTGGAGCCTCTGCCACACTGGCAAACCT TCCCCGGGGCTCCACTCGATCACGTATGGCTCCATCAGGAGAACCCT GGCCCTCTTCTCTAGAACCTCGGGCCCTCCTAGGGAACGTAGGG CACCTGCAAGGGACAAAA AGGGT CCTCCAAAAGAGCGC
ENSMUST0000050897.1	1	2	ENSMUSG0000043065.1	CAGGGT CAGTTTATGTTCCCGGTGAACCTAGCGCGTTTGGCTCCAC TGGGAGGTAGCAAGACATATTTCTAAGCAAACGATCAAAAGTTAAG GCAAGGAAGTGCCTGATGTGGAGGTTGGTGTGCAAGTTTCTTTGG AGACTTCTAGAGGCTTATGACAGGCGCGCCATTTGGCCCTTTGGGT GAGAACTGCAGAGCCCACGCCAGTACCGCCCTTGGGTGCCTCGG AGGAGCTCGCCGGATGTACGCAAAGGCGTGGGGCGGAGCTCTGGT AACCCAGGCAACGGCCCGAAGCCACTTCCCGCTTCCCGCTGGC GGGCTCTGTGGTCTGGAGGCTGAACTTTTAGTCGGGGCGGAGGCA CAGTCGGCCAGCGGCAAG
ENSMUST0000058150.1	1	36	ENSMUSG0000043165.1	TCACCTCCTTCCCTCACTCATCTTCCCTGGTGTCT AGGGT AACCC TTCTCTTAAACAAG
ENSMUST0000062888.1	1	12	ENSMUSG0000043848.1	GAGGGCTTCGG AGGGT GTTTGGAGCTTGACTTAGGCCGTTCTCT CGGCCAAAGTCCCTCAGCA
ENSMUST0000055995.1	1	19	ENSMUSG0000044123.1	GCCTGGGGTCTGTGATTGCT AGGGT GGATCTTCGGTTTGTCTCAGAA CCGTGTGGTTCGAGA
ENSMUST0000050516.1	1	34	ENSMUSG0000044475.1	GCCTTTCATACGGCCGGCGGGCGGAGCCTCC AGGGT CTCTTCT ACGCCTCCAGTTAGTCTTGGCAGGACTTTCCTGGAACGTCATTTGT C
ENSMUST0000061392.1	1	4	ENSMUSG0000044539.1	GCG AGGGT ATCTGGGGTCTGTCTTGAATTTGGACCGCTTGACCTG TGAGTCCCTGTGGCTCTTCGGCCATTCTGATGTGAAC
ENSMUST0000053864.1	1	41	ENSMUSG0000044573.1	AGTGCATGCGCCTCGTCCCGACGCGGTTTCTGGGCGCC AGGGT TGCACCGAAC
ENSMUST0000058733.1	1	609	ENSMUSG0000044600.1	TTTCCGGTTTGACGGACGCCTTGGGTGTAAGGATGATCGGAGACAT ACTGCTGTTTCGGGGACGCTACTGATGAACGCGGGGCTGTGCTCAA CTTTAAACTGGAAAAGAAGGACACACAAGGCTTTGGGAAGAATC GAAGGAACCCAGCACAGGGAGACAACTCCGAGAGTTTACTAAG CCTGAGGTATTTCCGGATCTTCACTCGACTGTGGAATGTGTTTCTG ATGCTCTGCATGATCGTGACTGTTTCGGCTCTTGAGTCCCTCGGGA ACCCAGAGATCACCTGCTGGACATCAAGGCTCTATTTCTGTTTCTG ATGACTTCAAGAATCTTCTCAATGGAAAACCAGGGACCTTCCAGA AGGCCAAGCTCATTTGGGTGGAGAATGTCATTTCCAGCTCCCT GACCCTCGTCAGCCACAGTGACAAAGTCAGACTTATTAGGAGAAA GACCTAGGCTCTTACCTTGTGCTGGCATTTCTATCTTCTCTGGCCC AGCTTCTCCAGAAACCTGACCTGGGCTATTTCTGGTTGAATTGAT GGTGATGTTTGGTTTGAATTTGGGTGCTTTGCTGTTTTTTTGT TTTTTTGAGAC AGGGT TTTTTCTGGTTAGCCCTGGCTATCTGGAAC TCACACACCAGACGGGCTCAAACCTCATAGAGATCCGCTGTCTCT GCCTCTCAAGTGTGGGATTAAGGTGT
ENSMUST0000050410.1	1	122	ENSMUSG0000044627.1	GCCTGACGTGGGGCGGTTGGTGGTCTCCGTCGTCGGTTTCTAGTTC CCTGAAGCAGCCGTTTAAACCCACCCCTGGACCTTCCGAGTTTAA GCCCCCCCCACTCCGGGTGCCCCGACCTT AGGGT TCAGGAGGGGT GAGTCAGAAATCAGCCGACTTTACCATGGCGGTACCAGTACCCGC AACGCCATTCCCC
ENSMUST0000061681.1	1	126	ENSMUSG0000044645.1	GGCCGCGCGCTCCGCGCCCGCAGTCTGGTTCGGCGCGCGCTCAGC GGCGCGGGCGGGCCCGACGACGACGACGCGGGCGCTCGCGCTCGG CTCCCCGGCCACGGGACGCGGTTCGACCCCGCGC AGGGT GCAGCCCC CGGAGCGGGCGGGCGGGCGGAAAA
ENSMUST0000058776.1	1	416	ENSMUSG0000044980.1	TTTTTTGTTTTTTTTTTTTTTTCTTAACCCACCTCCTTTTTTTATT TTCTTCTCTTCTGATATGCAAGTGTGCTTGTGACCATAGC

				CTTGGGCAATCCTACAATCAGGAGATTGCTATGCTGCTTTCCAAA AAAAAGATGAAAAATGGAGGAAAAAGTAAAAAACAAAAACAAC CAAAAAAAAAAATGATAAAAAGCCAGACTTTTTGTTTTGTTTTTA AACCATTTTGGAAAAGAAGCGGTTTGGAAAAATAGTTCGTAAATT TGGGACAAATATATTTCTAGAAGCTTTGTGTGACCTCATGGCTGTT TCCAAGACTGTCAACCTGTTTCGAAGTGAACAGTTGGGACT CATTTGGACCACAGTGAAGTGACAACCTTAACCCAGTCTGGGG TG AGGGT GTGGTGTCTTCTGTGGTACTAATGCGGGTAAATGTAG GGACCTGGTTTTATGCCTCCCGACCTGTCTTCATCCTCTGTTTTT TTTTTTTTGTTTTGATTTGTTTTTTTTAAATGTACTTTAAGAGA AAAGGAGAAGAGAATGCCAGAAAACTAAGATGGTTCAATTAATCCA CTTCCTTCAGCCTTATGCCCTTGGATAGGACATCTCCATACACCG GCC
ENSMUST00000060985.1	1	8	ENSMUSG00000045553.1	GGGCTGA AGGGT AGCAGACGTTTCCACAGCCGCCGACCCGAGCTT GAGTGTCTGCACCACCTTTCGTGGAAATCTGAGCCGGCTGTACAG CTTTCCCTCCTTGTTCCTGCAGCC
ENSMUST0000005258.1	1	38	ENSMUSG00000045671.1	CTCCACACCACAGTTGCCACTTGGGGTGCACAGATA AGGGT AGGT CACCAACTGATTATGCCTGTCTCTGAGCCATGCAAGAGGCTCCTAA TGTGCTGGGGGGGGGAGCACATATGCATATATATAT
ENSMUST00000055744.1	1	19	ENSMUSG00000045748.1	AGACGGTTGCGGGCGCA AGGGT TGGTAGTTGTGCTGTGGCCCT CGCTGCCGCTTCTGCATCGTGAATCGGGGGACCTTGGCAGCCAGAC CTCGTTCCCTTACAGTAGCTCTCATCTAGTCGCCACAACCTCCGCC ACC
ENSMUST00000060433.1	1	114	ENSMUSG00000045752.1	GGGCGCTGAAGCCACGAAAACTGATCGCCCGAGACTCGGTTTCCC AGGAACCCGAGCGAGACTGGACAGGACCAATCCCGGGGAACCTGGC GGGACGCTGCGAGAAAGCGGC AGGGT ATTGAGGCGGTACGGACG CTGGAACGCTCCTGTATCTGTGCGCGCTAGGATACCTTTAACCAC CCAGCTTCGCGAGGCTCCCGTCCGGCTGTGAGTAGAGGCACTTGA CACATAGTGGAGGTGGGACGGGTGTCAAGTCTGT
ENSMUST00000060630.1	5	13,1804,23 15,2338,25 35	ENSMUSG00000046268.1	TGGACAGTTGGC AGGGT TCCTGATGCAGATGGACAGGTTTCATGATT TTTCAAGCCTCCCGCTTCCCGGTGAAGCCGAGAGAGTGGCCCTCC TGGTATCCCGTCTGACTGGGGAGGCGGAGAAAGTGGCCATCCCCCA CATGCAACCAGACAGCCCTTTGCGAAACAATTACCAGGGGTTTCTG GCTGAGCTCCGCAGAACCTACAAGTCCCGCTGAGGCACTCAAGGC GAGCACAAAATCCGGAAGACATCCCGCTCCAATAGGGCTGTGCGGGA GCGAGAGCGGGAGCGCCAGATGTTGTGTGCGCAACTGGCCGAGCT GGCACAGGATCCTGCCCGGTGCATCCAGCTCCAACGGGACCAATC CCGCACCAGCCTTGCCCTCTCGTGGCCGGAAACCTTTAAGGACTTGC CACCACCCTGGTAGTCTGTGTCCACCAGGTAGCTAGACTCCCGTTG TTGAGAGTTGTCAATTCAGTAGCTTTGCCCTGTTTGGGACCCCTT CACGCTCTCTGGTCTACGGGAGACCATCCTGTATCGGCATTGGT CACCCACCCCGCTGTGCGGCGTGTATTTGTTTTGTTAGCGTTACCC GCGACTCAGTGCATGCTCCCTTCTGTGTGCTTGAATCCCGCT TCTCCAGCAATCACAAACACAGCCCTTGGGCATGTGCCTGCCAGG AACCATTTAGGCTGACCACCTCTGCGAGCTCAGCTCACGGATACTC AGCTCCTGGAACACTCCCTACAGCTCTTGTGCCCCAGGCTGAAGA ACTGCGAGGAGTGGCCAACCTGCTFCGGGTCTCATGTGGACATG TTCCAGTCCCAAGGAGCAGAGCCTCACAGGAGGATGACCTCTCAAT CAGACTCAGCAAGCCTCTGGACCATGACATCATCTGTATTTCAA TGCCAAATGAACTGTGTTTACATACCTACCTGGCCCTTTGGGGAG ATGGGTTACCTCTCCTGGGTTTTCCCTGCCCTCCTGTCATGGCTTT GTATACT AGGGT GATGTAAAATCACAAAGAAGAACTGTGTGAG GTAAGGAAAATACATTCAAAATAATATATATATATTTAAAATTA GTCTTCTACTTGACTTTTAAACAATCTTGAAGAGAAGTCGAGAATG TAAGTAATAATTTTATTTAAGTA AGGGT TTAAGGAAAGGCATGCT ACCCTGAATGGCAGTCATGAGCAGAACAGATGCTGTTAAATTTAA TGGAAACATAAGCTTAATATTTTAGCCATAGAAAGCTAAATTTGAA TTTATCTATACCGCATAAATAATCAACCTGAGGAAAATGATTTGATT TTTTAAAAGCTTAATTTCTTTATTTCTAGAAAATCAAGTGATGTAT TGTCTTCCCATTGTATATATTCATTACAGTTAATCATGCAATCATTA GGTGTCTACTTCTGTATACTACTAACAGTGGCCAGCTCACTAGAC ACATACCTGAACAAAACAGTAAACATTTTAAAAACTTACTTTAT TTGAAAATTCAGATACTTTTATATCATTTAGTCACTTTACTGCTGTA AAGTTTTTACTAAGAAAAGGCAGAGAAAATCAACCTTAGCATGCTGT TATAAAGTGTCCATTTATTTGCTCATTTCTCAGGATACTCTTATT CCTTTCTGTATATAAGAAAACAAATCTGAAGAATCCAACCTTTTCA TTCCAGAGTTCCATCTTAATTAGCATACAAGGTAGGTAAGGTTTA AACAAATTTCCCTCAAAGCTGTGACTTTAGGTTGCCATCCTTGAAGT TAGTTTTCCAGTTGGGTGATGCTCATCTACAGGCTCTTTGAAAATA AACACAGTTTCGGAATTATAGGCTCAGGTTAAGGGAATAGTTTTACG
ENSMUST00000051734.1	4	8,161,1933, 3161	ENSMUSG00000046700.1	

ENSMUST00000058928.1	1	1	ENSMUSG00000046710.1	AAAACTTTGAGTGTGAAGATGTTTGA AAAATTAATTTAGAACTATCTG AATAATCTCTGGATGATGTTTGTGATATTCAGAGGAGCTGCTGAGG ACACAGGCTTACTGCTTTGTGAGAATCAGTGC AAAAATAGCTCT CAGGGT CTGCACCGAAAC
ENSMUST00000053872.1	1	239	ENSMUSG00000046722.1	CTCAACTCCCCCGCTGCCGAGAAGCAGCCAGGGGACCCGGAGTGG CGGAGCCCCCGCCGAGTGGGGACGCCGGGAGCCGAGGATTC ACATCTAAAGAAGACAGGACCTTGTGCC TGCCGACCCAGCCCTT GCCAGTCCCCACCAGTCAAGACTCCGACCTTACCCGAAAGGCCA CTTGTGTGGTGTCTAGGATTTCTACCTTTTCCCACCCCATCCGGTTG ACTGAACCC CAGGGT GTTGTTACACCTGCCTGTGAGGACTGGTTGGT TAGCAACAAACACGAGCCCCCTGGGGCCTCTGGCAGCGCCCTGAAG CTGGAACCATCAGGGAAC
ENSMUST00000062238.1	1	239	ENSMUSG00000046722.1	CTCAACTCCCCCGCTGCCGAGAAGCAGCCAGGGGACCCGGAGTGG CGGAGCCCCCGCCGAGTGGGGACGCCGGGAGCCGAGGATTC ACATCTAAAGAAGACAGGACCTTGTGCC TGCCGACCCAGCCCTT GCCAGTCCCCACCAGTCAAGACTCCGACCTTACCCGAAAGGCCA CTTGTGTGGTGTCTAGGATTTCTACCTTTTCCCACCCCATCCGGTTG ACTGAACCC CAGGGT GTTGTTACACCTGCCTGTGAGGACTGGTTGGT TAGCAACAAACACGAGCCCCCTGGGGCCTCTGGCAGCGCCCTGAAG CTGGAACCATCAGGGAAC
ENSMUST00000050490.1	1	309	ENSMUSG00000047213.1	GGAACTGGGGCTGAGGCGCCTGTCCGCCATTTGGGCCGAGGATC GGAGGACGAGCGGGGACGAGCAGTGTGCAGGCGCGAGCTCGGGCC CTTCCGCGACTCCCGAGCGTGAGCCCTCTCCCTGGAGCCTGCCAG AGCGGCGGCGGGGAGGCGGAGCAGAGCTTCGCGAGGGCGGTAGT CGACTGCTGTGAGTGTCTTCGGCGAGGCCAGGAGCGCGCGCGGC GGCGGCGGTTCTCTCGGGTTACGGTGAAGAATGTCAGCCACTAGC GTGGATCAGGAGACCTAAAGGGCAAGGAAATA AAGGGT GGGAAAC ATGATGCACACATCTGTTGACTTTCTTAACCTTGATGTAGTCAGGAC CAGAGCAGAGACCCACCTGGCTTCTAAGGCC
ENSMUST00000061794.1	1	318	ENSMUSG00000047245.1	GTGTTTGCAAAAAGGGAAAAGTACTTTGTGCTCCTTTAAGACTAG GGCTGGGAGAAAGAAGAGGAGAGAGAAAGAAGGAGAGAAGTTTGG AGCCCGAGGCTTAAGCCTTTCCAAAAACTAATCACAAACATCCGCG CGGCCGAGGAGGAGAGCGCCTGTTTTTTCATCCCAATTCACCTTC GCCGCTCTCGAGCTCCGCTTCCCCCAACTATTCTCCGCCAGATCT CCGCGCAGGGCCGTGCACGCCGAGGCCCCCGCCCGGGCCCCTGCA TCCCCGGCCCCGAGCGCGGCCCCACAGTCCCGCCGGGCC CAGGG TTGGCGGCCCGCGGGCCGCGCCCGCCAGCGCCCCG
ENSMUST00000055486.1	1	4	ENSMUSG00000047249.1	GTC CAGGGT GAAGCCATGTTCC
ENSMUST00000058161.1	1	42	ENSMUSG00000047350.1	GAGTGACGAGAGGCTTTGTCCGGTTCGGCGGCTTTCTGTG CAGGGT GTTTCGACGCGCTGGGCGGTTTGTGCTTTCATCACATTTGTTAACA GGTCAAAATGCAGATCTTCGTGAAGACCTGACCGGCAAGACCATC ACCCTAGAGGTGGAGCCAGTGACACCATCGAGAACGTGAAGGCCA AGATCCAGGATAAAGAGGGCATCCCCCTGACCAGCAGAGGCTGAT CTTTCCCGGCAAGCAGCTGGAAGATGGCCGCACCTCTCTGATTTAC AACATCCAGAAGGAGTCAACCCTGCACCTGGTCTCCGCTGAGGG GTGGC
ENSMUST00000058023.1	2	492,561	ENSMUSG00000047614.1	GTCTTTACGCTTCAGCTCTCTGGGTACAGTGGTTCCAGTGGTTCC CAGTAGCTCCCAGACACCTAACGCCCTGGGCACCTTTGAGCATC CCTGATTTGGAAAGGGATGCAGGCTTTAGAAAGCGGCTGACGGGTA AAATCGCTGCATACCTTGACACAAGCCTCAAGGTGCACGGGCACAG GAAGATGCGAGCCTGCCAATGAGCAGCCCTCTTCTCTCTCCTGAAT GGTCTGGAGCAGGAGGCCAGAGGCTGCACAGACTCCTTACATAGC CCTGCATCATCAGCCTACTGAAGGCCCTCCCCACCCCTGCTGCT TTTCATTTGCCCTAATTACCAAGTCAAAGTTGCAGTCCAATTTGCTT TATTTTGTAAAGTGAATGACCCCCCTACGCCCTGTAGGTCGTG TCCTGTAAGCGCACCTTCCCTCCTACTTGTGAGGAACTAGGAGTG GGTGAGTCTGGGCTTTGGGTTTTGAGATGG CAGGGT TGGCATCCAT CCCTGCTGTGGTCTTGCCCTGATCTAAGTCACTCCCTCTGTGAAA GGCTGGAC CAGGGT GGCAAGGCAGCATGAAGCACTACAGGTGCCAG CCTGAGGGGGCAAAATGAGCCTCCTCCCAACTTCAGAGGGAGCT GGTGGATCAGAGGGCGTTGCCCTCGTTTCAAAGGAGGCTGAGATACT TCACTGGAGTATGGAGGCTTCAGAGCCAGGCTGGCCGGCATTTTA AAGGGAAATGTGGGACTCTTGACTGGCCATGGCAGAAACAAGGTCA GTCAAGGATGGACTGGCCTCTGGGACCTAAGAGGGCACCCACC TTTTCTCCTTACTTTTCTGGTTGGTTCGGGTTTTTCGGGTTTTTTTT GTTTGTGTTGTTTATTTCTGTTTTTTGCACTTAATGG
ENSMUST00000055747.1	1	7	ENSMUSG00000047858.1	GGGCTGA CAGGGT AGCAGACGTTTTCCACAGCCCGACCCGAGCTT GAGTGTCCCCCACCCCTTTTCTGTTGAAATCTGAGCCGGCTGTACA GCTTTCCTCCTTGTTCCTGCAGCC

ENSMUST0000059828.1	1	75	ENSMUSG0000048354.1	GGGCAGGGACC GCCAGGGCCGACCTCCGGGCCGGCCCTCCGCGC CCCCGAGATGAGTACGGTTTCTTCTGTGG AGGGT ACGCAGTTAAAG TCTTGATTTCTTGGATCTGGTAACATGGCAAAAGATGTGTGGTATC TCTTGTAGCCGTCCACCCGTCCACAGTCAACACACTTGGGAAGCAG CTTTTGCCAAAAACCTTCGGACAGTCC
ENSMUST0000054634.1	5	363,1436,1 551,2018,2 322	ENSMUSG0000049237.1	GGGATTTTAAAGTGGAAATCACCTTTTCAAGATTATTACCATTCT GTTGTGGTACTGGAGGCTCTAAATCTCTGCATGATGTAGTTCACT TGAAGTGTTTTGGTATTTCTTAGTGATTTTAGAAAAGCCTCATTTT GTAAAAGTAAAATATCAGTAAATATCCCAAGATAATTTTCAGATAT TTTACTGTATATGTGTAAACGATTGAACGTAAAGGGAATATAAAA CAGACTTAAAGTCCAGGCTTAGGAGGGCACATAATATTTTAAATC CCAACACTCAGAAACCAGAGAGGCAGGCTTCTGTGAGGTCCAGCT AGTCTGCTCTACATAGCAGAGAAGGAGCAGCTGGAAC TACAGGGT TATCAAAAAGAAAGCAGTAGCTCCTCCGCCATTGTGAGTGCCAAAG TGTGACACTGCTGCAGGTACAGTGGTGTTTTGGAGATGTGTTTAG TTAAGAAGTAATCTTAAAGCTTTCTAATGTCCTAGCAAGTCCGTCT TAGCTGAGGGAAATTTATTTGCATATAATAAAATTTTATTCCTGACC GGTGGTCTCAGGGGGCTAATATTAAGTATTTATCCTTCTGTCTT TTTAAATCCTAGGTAGAGAGGTAGCAAGAGTGTCAAGCAGCATATTA CAAGTAATGAAAATCTTTTCAATTTGGCAATTATATATTTCTGTGAC ATCTCAAAAATTCGTGGCTGTTTAGAAGAGAGTGGCTGGAGGATGA AGAGATCTTCTTAAATTAAGGGAAATGGTTTCTTAACTACACA GCAGAGAAGCGGGTGGCCAGCATATAGCAACATGTGGGATACATT TTCACAGTGTCTTAAAGAAAGGGCAGGACACTCGGGCTAGTGCAG GGGCATTTGAAGCACACTTCCATTTCTGGGATCTCGTATTTTCAATG TGTGTAATAAGGACCTGAGAACACAGGCAGATGCAGCTCTTCAGTT TCATCTTGAGTTTATTTTCCAAATAAAAAGGGCTGCTCTTACGGC
ENSMUST0000059580.1	1	612	ENSMUSG0000049327.1	AAAGGGAAATGAATTTTCTTACACACACACACGCACACACACAC ACATACACACACACTCACACTCCTTAGCTAATTAATCTTAAAT GTTTTTAAAAAGTATATTAAGATGCCTTTTTCATGTAGTATTTAAA TATCTGTACAGGTTTCCAGGTGGACTTGAACAGATGGCCTTATA TTACCAAAACTTTTATATCTAGTTGTTTTTGTACCTTTTGTGATA CAAGCTGAACGTTTGTGCTTCCCGCAGTGTAAAGACTCGGCACAG GTTTTAGAGAATGGAGTTGAACATGAACTAGGAAGCCGGGCTCTGC CCAAGATGAAAGCCAGGACTTCCCCACACCCACGTCCAAGGACAG GCCGGTGTGAGGGGCTGCCCCACACAGCCTGGACGGGATG TCTCCAAGCTCTTGTCTCCTCAGCATCTGACAGGCGTACACACT GTCGTGTATGAATATTTTGTAGCAAAAGTTTACAGTAAGCTAGTC TTCCCTCTGCTTTCTCCAAGCTTACTGAGCCCGGGCTGGGAGG CCCGGCCAGGAACAGACTCTTCCACAGGCTTACGGCTTTTCCAGG CACCTTGAAGCAT CAGGGT GGACAGTCAAGATTAGAGCGGGCCGGG AAAAGCACGTCTCTCTGCTCAAGAAGGGCAGGTCTCTGAAACTG CATTAAATCTTTATAGAAAATGTGAACACTGAATTTATTTTAAAAA TAATAAAAACAAAACATTTTAAAAAAATCAAAAAAGAAAAATGG AAAAAAAACCCACAGAAAACAACCTTAAAGTGTATATAGGTTTTGA AGGGAGTGAATGAATGCGGTTTTCTTTCTTCTGCGGTTTTATTTT TTTTCTTTTGGCTTGGCTGGTTGGTTTTGTGTAGAGAAGATTTGAG ATGGTACTCTATTTCAATCAAAAGTGAAGTTTTGTAGTGGGACCAG AAATTAAGCCACACCCCTCCCTAACCCCAATCTGTCTG
ENSMUST0000054168.1	1	107	ENSMUSG0000050441.1	TGGCGCCGAGCCGTGTGCTCCTCCTCCGCGCCGCATATTGTC TGTGTGAAGCTAGGGGAGCGCGCTATTGCCGCTGCCGCTTCCACC GCAGTGTGAAGAAA AGGGT CTGAAACAAAGTCTTACCAACGCTG CTTTTGAACACAGTACTGCTGGATCTTTAAACATCAAGTTACAGT TTGTCTGTCAACCTGTCTGAC
ENSMUST0000051517.1	1	17	ENSMUSG0000050490.1	GGCGGTGTGGTTGATT AGGGT GTGCTTTCAATCGTGTGGCCTTTG GGAACCCCGGTAGCCACTGCCGCTCCTTCTGTCTCTCGCC
ENSMUST0000056704.1	1	181	ENSMUSG0000050560.1	GGCGAGAGGAGGAGGAAAGCCGGAGCGGAGCGGGCGGCTGGGGGG GGTGGACCCGCCGGGCTGCTGCTGCCACCGCCGCCCGCCACCA CCGCTCGTGGGGCTCGTGGCGTGAAGGAGGACGAGTGAAGACCC CGGGCGAGCGGGCGGGCGCCGCTGCTGCTGCTGCTGCGGG AGG GT CGGCGGGCGGACGGCG
ENSMUST0000060404.1	1	195	ENSMUSG0000050565.1	GGAAATGAAACCGAGCGCAGAGTAGTTTGGGGCTCCGACAATGGCT TAGCCGCCGACTCTAGCAAAAGCTTACAGAAAGAGGAGACCTAGA CCCCCAAACTGAAGCTCCAGACTAGGCAGAGCTGCCCGCTCCG CTCGGGTCACTTCGCACCACCCTTCCCGCGCGGCCACTGCGTCT CTTCCCTCTT AGGGT CCGGGTGGACTCAATCCGGGAGTGCAGCC CAAAGGGCCGCAGAAATCACAGGACCCAGGCGGGCCGGAGCGGG GCCCGCTCCACGGGGCGCGCCTGCCCGCCGCTGCCCGCCCGC GCGCGCTCCCGAGCCCGCAGCCGAGACTGTTACCTTCGCGGTCTC ACTGGAGGACGGAGAGTCCCGTAACCCCTCGGCCGCTCGTGGCCGA

ENSMUST00000053254.1	1	1279	ENSMUSG00000050620.1	GACAGCTGCGGCTGCTGTGAGTGTCTCAAGGCGAGCAGACCTCC GCGTCTTCATCTCCTCGGCTTCCTGGGCTCGCCGCTGCCTCCGTGG TCGAGAGCGAAGGTTGTAAGCGCTTTCTCTCACTTCCTCTCCCGCA GAAGCCGGCCGAACTTTTCTGGCGGGTTCGTCTCCCCCGGGAG ACCTTTCTTTGGCCGCCGGGCTCGAAGTCGCCGTACACTTCTGC CGGCTCCTCTGAAAACCTCACTTCCTCGTCCGCGGGCGACGGG TGAGTCCGTACGCAGGTCTTTGAGAAAGGATCCCTCCCCACCC ACCTCCCTACGGCACAAACAGAAATCGAGGTGTGTGACGCATPCC CAGACCATCTGCAAACCTCAACACCAGCGACTTCTCTGTGACTGGG TCCAGATAAAGGTCCTTTCAAGACTGACTTCAGTGGATCTACTCCA CCAGGTCTTCCGACCTTACTACATCACTGCCAAGTGTATTGGCG AGACTGCCTGCACCAGCAGAAGACTCACCGGATCCATCAGAGGCTC GGTTTACCAGAGCAAAGCAAGAGCCTGTGTGGTTCTGCCTCCCGC CAGGATGGGTTTGATCCGTCAAGCAAGGAATGAGGAAGAAAACAT ATACTCGGTCGCCACGACAGCACCAGGGCAAGATCATTTACCATT CGAACATCAACAAAGCCAGTCCAATGGCAGTGGTAATGGTTCTG ACAGTGAGATGGACACAAGTTCCCTAGAGCGAGGCCGCAAGGTATC TGCAGTGAGTAAGCCTGTGTGTACAGGACAAGATGCACTCGCCTG GGGCGGTTTGTAGTTACCGTACCAGCTTCAGTGTCCGGAGTGATG ATGAGCTGGGACCCATCCGAAAGAAAGAGGAGGACCAGGCATCCCA AGGTTATAAAGGGGACAAATGCTGTCAATCCATATGAAACAGATGAG GACCCAGGAGGAGGAATATCCTTCGAAGTCTAAGAAGGAACACCA AGAAACCAAGCCCAACCCCGCCATCCATCACAAGGCAACCTG GGAGAGTAACTATTTGGGGTGCCCTTAACAACAGTGGTGACTCCA GAGAAACCGATACCCATTTTCAATGAAAGATGCATTTGAGTACATCG AAGCCACAGGACTAAGCACTGAAGGCATCTACCGGTCAGTGGAAA CAAGTCAGAAATGGAAAGTTTGCAGGACAGTTTGTATCAAGACCAC AATCTGGACTGGCAGAGAAAGACTTCACTGTGAACACTGTGGCAG GGCCATGAAGAGTTTCTCAGAGCTACCAGACCCCTGGTACC ATACAGCATGCAGATTGACTTGGTGAAGCTCACAAAATCAACGAC AGGGAACAGAAAGCTGCATGCTCTGAAGGAGTGTGAAGAAAGTTCC CGAAGGAAAACCATGAAGTCTTCAAATATGTCACTCCCACCTGAA CAAAGTCAGCCACAACAACAAGGTGAATCTTATGACCAGTGAAGAC CTGTCCATCTGCTTCTGGCCACGCTGATGCGGCTGACTTCAGCA GCATGGACGCGCTCACAGCCACGCGCTCCTACCAGACCATCATCGA CATTAGCAGAGACATGTTTCTGAGACAGCCGACTATGTGACACTCT GATTTACAGCCCTGACTTCCCCACCTGTGGAACGTGT AGGGT TAT TTGCCTAAGATGCGACC
ENSMUST00000051412.1	1	85	ENSMUSG00000050904.1	CGGACGTCCGCACGTGGTTGCCGGTTT AGGGT GCTGCTGTAGTGGC GATACGTCCCGCGCTGTCCCGAAGTGAGGGATCCGAGCCGACGG AGAGCC
ENSMUST00000053256.1	1	27	ENSMUSG00000051141.1	CGAGGTAGCAGGGAAGGGTTTCGC AGGGT GCTTGCGTGGTGTGTG AGCAG AGGGT CGGCGTTAGGGGCCTTAGTTCTGTATACA
ENSMUST00000051112.1	2	24,51	ENSMUSG00000051256.1	GTGAAAGCCGGCCGAGGTAGCAGGGAAGGGTTTCGC AGGGT GCTT GGCTGGGTGTGTGAGCAG AGGGT CGGCGTTAGGGGCCTTAGTTCTG TACA
ENSMUST00000062200.1	2	37,64	ENSMUSG00000051256.1	GGTCCGGCCCCGGCCAGCACCCGCGCTGGGCTCAAAGTTTGGC GCCGCCCTGCGCCGCGCCCGATGTATGGGTGATCTACTGCGGC GGCGCGCGCGCGCGCGCGCGCGGC AGGGT GAGGGACGGCCATA GTTGCGCGCGCGCGCGCGCGCGGACACAACAAAAGTGCAGCGGCT CCCCGCGCGCGCTCGGACGGCTGCGGGGACGTGGGGCCCGCCGGCC CGGGCTCGGCTCGGCTCGCCGCGCGCTCGCGGCTTGGCCCGG CTCTGCCCGCGCGCCCGCGCGCGGGATGTCTGTAAGCCG
ENSMUST00000049640.1	1	120	ENSMUSG00000051303.1	TCTC AGGGT CCTGACCTATGCTCTGTGTCTTGACAGTGCCTGCTC ACTGTGTCCCCGGGTT
ENSMUST00000058162.1	1	5	ENSMUSG00000051510.1	GGGAGGCTGCCAG AGGGT TTGTCACTGCTGTGTGCTCCTCCGCCTCA GCGAGTCCAGCCCGGCCCTAGTGGTGCCTGCCTTTCTCATAGCC GTTACCCTCAGCCGCCACAGCCCGGACCGGGAGAGGCGCGCCG
ENSMUST00000053054.1	1	13	ENSMUSG00000051612.1	

Genes with an annotated 5'-UTR in the ENSEMBL database and expressed at late-gastrulation stage according to our U74Av2 Affymetrix wild-type data set were searched for high-affinity Grsf1-binding sites (5'-AGGGU-3'). Genes with binding sites are listed with their ENSEMBL transcript ID, total number of matches, locations of the matches, ENSEMBL gene ID and the 5'-UTR sequence.