

Supplementary Table 1. 1,500 rMitChip Genes and Probe Sequences

GeneID	Symbol	Probe
25120	Aanat	5' - [AminoC6] AGGGACCACTTCCAAAGCTGGGGAACCCAGGGAGGGGTGAGTGGCCAGA
296925	Aass	5' - [AminoC6] TTGGCATTAGACATCCATCTGGACATTTAGAAAACAAGACCATTGATCTT
81632	Abat	5' - [AminoC6] TGGACAAGCTCCGGGAGTCCTTGATGTCGGTGGCGCCCAAAGGCATGTGT
310836	Abca4	5' - [AminoC6] CACCCGGTGGATCGCTGAGCCTGCTAGAGAGCCCGTTTTTGATGAAGATG
361439	Abcb10	5' - [AminoC6] CCAGTTCTGGAACAGTCAGTCTTGATGGCCATGACATTCGTCAGCTAAAC
140669	Abcb6	5' - [AminoC6] TTTCAGGGTTTGGAGTGGAAAGTCAACGGCTTCACTGGTTTTACTGAATCA
302395	Abcb7	5' - [AminoC6] AAGTGGCCATTGTAGGAGGTAGTGGGTCCAGGAAAAGCACGATAGTGAGG
362302	Abcb8	5' - [AminoC6] CGCTGGATGGGCATGACCTGCGTACTCTCGACCCCTCCTGGCTCCGGGGC
363516	Abcd1	5' - [AminoC6] TGGCCAGCCTCAACATCAGGGTGGAGGAAGGCATGCACCTGCTCATCACA
311959	Abcf2	5' - [AminoC6] GGACCTGGACCTTTCCCTTTGGAGTACATGATGAAGTGCTACCCAGAGA
303953	Abhd10	5' - [AminoC6] GGTAACCTAGCAGAGTGCTCAGTGGGGAAGTGGAGAAAAGGATGTTCTTTC
24157	Acaa1	5' - [AminoC6] GAATGTGGCTGAGCGGTTTGGCATCTCACGGCAGAAGCAAGATGCCTTCG
170465	Acaa2	5' - [AminoC6] GTGCTGGGGTCGTCATCATAGCCAGCGAAGATGCTGTCAAAAACATAAC
116719	Acacb	5' - [AminoC6] GTTCTGGAGCCCGAGGGCACTGTGGAGATTAAGTTCGGGAAGAAAGATTT
294973	Acad9	5' - [AminoC6] TGAACATCCTCAACAGTGGACGATTACAGCATGGGCAGTGCTGTGGCCGGG
25287	Acadl	5' - [AminoC6] GTGTATTGGTGCCATAGCCATGACAGAGCCTGGGGCTGGAAGTGACTTAC
24158	Acadm	5' - [AminoC6] CCAGAGAGCCCTGGACGAAGCTACTAAGTATGCCCTGGACAGGAAAACAT
25618	Acadsb	5' - [AminoC6] GGATGCGTCCGTGGCTCTCCTATGTGACATCCAGAACACAGTCATTAACA
25363	Acadvl	5' - [AminoC6] CCTCTTGAAATGTTGGCCTCCTCATAGGAGAAGCAAGCAAACAGCTGAG
25014	Acat1	5' - [AminoC6] CTGCAGAGGCAGCCAGCGGCTCAAGGTTAAGCCACTGGCACGAATCGCA
308100	Acat2	5' - [AminoC6] GCACCGTTATGCACGGCCCCAATATGATCCATTCAAGGAATGGGGATGT
289312	Acbd3	5' - [AminoC6] ATGGACAGACTCTCCAAACGCTGCTGTGTCAGTGTGCATGTCAGTGAGTCCA
24159	Acly	5' - [AminoC6] AACTGTGGCTCCTTCACCCGGGAGGAAGCTGACGAGTATGTTGACATTGG
50655	Aco1	5' - [AminoC6] AAACCCTCGATGTGTTTCGATGCCGCTGAGCGGTACCAGCAGGCTGGACTT
50559	Acot1	5' - [AminoC6] AAGACCATGGAACCATGCGCATTGAGTACTTTGAAGAAGCCGTGAACTA
291135	Acot13	5' - [AminoC6] AGTGGAGGAGCAGCACACTAATAAGTTTGGTACTCTCCACGGCGGCTTGA
302640	Acot9	5' - [AminoC6] GTCCTCCTGCCTTTGGGTTCTGACCCGTGATCTACGAGACAAATATTTGAC
50681	Acox1	5' - [AminoC6] AGCTGTCAAGTAAACGCTCGGATCCTGGAGCTGCTCACCCCTGATCCGC
295305	Acp6	5' - [AminoC6] GGCTTGTACATGCTGCAACAGGAAGACAGGGAAAGTATCCAGATGGCCG
171410	Acsbg1	5' - [AminoC6] GTATGGCAGTCAGGCTGGGGACATCCAGCCAGCGGAAGTGCAGCAAGAGG
114024	Acsl3	5' - [AminoC6] CTTTCTGCAACGACACAGCGATTTCATGAATATCTGTTCTGTTGTCCCGT
113976	Acsl4	5' - [AminoC6] GCTGCTAATTCTTCATGAAAATCCTAACACACACGTTAAGGGACCAGGGA
94340	Acsl5	5' - [AminoC6] GTGTTTTCAAAGATCCAAAGCAGCCTGGGTGGGAAGGTTTCGTCTCATGAT
117243	Acsl6	5' - [AminoC6] CGCCAGGGGACTGGACATCAGGGCACGTGGGAGCCCTCTGCCCTGCAAC
296259	Acss1	5' - [AminoC6] CACTGGAGATGGAGCTCACCGGACGGAGGGTGGCTATTACCAGATCACAG
29437	Acta1	5' - [AminoC6] CATCTATGAGGGTTATGCCCTGCCACACGCCATCATGCGTCTGGACCTGG
81633	Acta2	5' - [AminoC6] AAGGACAGCTATGTGGGGGACGAAGCGCAGAGCAAGAGAGGGATCCTGAC
81822	Actb	5' - [AminoC6] TGGGTATGGAATCCTGTGGCATCCATGAAACTACATTCAATTCATCATG
287876	Actg1	5' - [AminoC6] ACAACGAGCTGCGTGTGGCCCTGAGGAGCACCCGGTGCTTCTGACCCGAG
25365	Actg2	5' - [AminoC6] ACTCCTTCTACAACGAGCTGCGAGTAGCACCAGAAGAGCACCCGACCCTG
294010	Actr1a	5' - [AminoC6] GCTCATGAGCGGACCTTGCACACAGACATTTCTTTGGATTGATCAAAGA
300981	Acy1	5' - [AminoC6] GAGCTGTCAAAAATAGAGGTGGCGCCTGGCTATGTGATCACTGTGCTGA
24165	Ada	5' - [AminoC6] CGTCCACCTGGATGGAGCCATCAAGCCAGAAACCATCTTGTACTATGGCA
305509	Adcy1	5' - [AminoC6] TATCTACCTTCTGGTAATCCCACAGAGCGTGGCTGTCTCTGCTGCTGCTGG

24172	Adh1	5'-[AminoC6]AGCAGGAGCAGCCAAGATCATTGCCGTGGACATCAACAAAGACAAGTTTG
29646	Adh4	5'-[AminoC6]TCAATTTACCACCTTCATGGGAGTCAGTTCCCTTCTCTCAGTACACTGTGGT
100145871	Adh5	5'-[AminoC6]GATCCTGAGGGGTGTTTCCCCGTGATCTTAGGACATGAAGGCGCTGGCAT
310903	Adh6	5'-[AminoC6]TAGTGCATCAGTATATCGCTCTCGGCAGCTTCTCGGAATACACAGTCCTA
25369	Adora2a	5'-[AminoC6]CACATCATCAACTGTTTCACCTTCTTCTGCTCCACGTGCCGGACGCCCC
24925	Adrb1	5'-[AminoC6]AACCGGGCCTACGCCATCGCCTCGTCCGTCGTCTCCTTCTACGTGCCCT
361436	Afg3l1	5'-[AminoC6]TAGTCTGCCTCACTGATGGAGCATCCATCTTAACAACAGTCCCTTCTCTC
290923	Aga	5'-[AminoC6]CGGGGCTCCAACCTCTACCCCTGGTCGTCACACTTGCCCTTTTAAGAA
304375	Agfg2	5'-[AminoC6]TGCCCGTGTCTGTATAATCAAACCTGGGGCCCCAGGGCTCCAGGGAGGAC
502749	Agk	5'-[AminoC6]CCTGACGAGCAAAGAGGACTTATGAACATTTGCATTTGAGCCTGACACTG
298607	Agmat	5'-[AminoC6]CCGGCTAATCCGAGAGGCCTATCAGAACATCCTAGCAACTGGCTGCATTC
24792	Agxt	5'-[AminoC6]GTGCACCAGATGATCAAGAAGCCTGGAGAACATTACACACTGCAGGAGGT
83784	Agxt2	5'-[AminoC6]TGCTCCACCAGGGACACATGGAATGGCTCTTTGATTCCGGAAGGAAACAGA
428743	Agxt2l1	5'-[AminoC6]TTTGTATTTTCAGGAAAAGACAACATCTATTTCCCTTTGAAGTTTTCATAC
29443	Ahcy	5'-[AminoC6]GATGAAGGATGATGCCATTGTCTGTAACATTGGACACTTCGACGTGGAGA
25690	Ahr	5'-[AminoC6]AGTAGGAAAAGACTGGGCTCCCCAGTCAACCCGAGTAAGGATTTCTTTCCA
83533	Aifm1	5'-[AminoC6]CTGTGGGCCTAGAACCCAATGTGCGAGTTGGCCAAGACTGGTGGGCTGGAA
24183	Ak1	5'-[AminoC6]TTTGAACGGAAGATCGCACAGCCACACTGCTACTGTATGTGGACGCAGG
24184	Ak2	5'-[AminoC6]AGTTCAACCTCCAAAGGAGGCCATGAAAGATGATATCACTGGGGAGCCC
29223	Ak3l1	5'-[AminoC6]TGGTGACGTGGCAAAAACAGTACCTAGAAAAGGTCTTTTGGTTCCGGACC
114124	Akap1	5'-[AminoC6]GGTTGCAGGCAGGACAGTGCAGCGATGAGAATTCAAAAGTGGTACTCTCC
360540	Akap10	5'-[AminoC6]TCTAAACACAGTGAAAACAGAGTTCACTGGCTGAGCCTGTCTCTCCATCTA
24192	Akr1b1	5'-[AminoC6]CAAGATGCCACCCTGGGTCTGGGCACCTGGAAGTCTCCTCCTGGCCAGG
24185	Akt1	5'-[AminoC6]CCTGCAGTGGACCAGGTCATTGAGCGCACCTTCCATGTGGAAACGCCTG
65155	Alas1	5'-[AminoC6]GCCCCAAGATGATGGAAGTCGGGGCCAAGCCGGCTCCTCGGACCGTGTCC
25748	Alas2	5'-[AminoC6]CTCAAATCCATCTTAAGGCAACCAAGGCTGGAGCAGACTCTCCGTCTTGG
24186	Alb	5'-[AminoC6]CGACCTGTTGGAATGCGCGGATGACAGGGCGGAACCTGCCAAGTACATGT
361755	Aldh18a1	5'-[AminoC6]AGCAGAAGCGCAGAAAATCTCAACGGCACACTACACGAGCTGCTTCGGATG
116676	Aldh1a2	5'-[AminoC6]GAGGAGATTTTTGGACCAGTCCAGGAAATTTTGGGTTTAAGACTATGGA
266603	Aldh1a3	5'-[AminoC6]GCCTGCCTTGCCGCGCCCCATCCGCAACTTGGAGGTCAAGTTCCTAAGA
298079	Aldh1b1	5'-[AminoC6]CTTTTCAGGAGTCTTATGTCTTGGACCTGGATGAAGTCATCAAGGTATAC
29539	Aldh2	5'-[AminoC6]GGACGGAGCAGGGGCCGAGGTGGATGAGACTCAGTTAAGAAGATCCTG
309147	Aldh3b1	5'-[AminoC6]GCCAAGACCTACACAAGTCAGCCTTTGAGTCGGAGGTGTCCGAGATTGC
688800	Aldh3b2	5'-[AminoC6]GATCGTCATGGCTGCTGCTGCCAAACACCTGACGCCCATCACCTGGAGC
291133	Aldh5a1	5'-[AminoC6]GCCATGATCACCCGAAAAGTGGGGGCTGCCTGGCAGCTGGCTGCCTGT
24189	Aldoa	5'-[AminoC6]TTGGAGGGGTGATCCTTTTCCACGAGACTGTACCAGAAGGCAGATGAT
24191	Aldoc	5'-[AminoC6]TCTTCCACGAGACTCTACCAGAAAGATGACAATGGTGTCCCTTTGTG
363235	Als2	5'-[AminoC6]GGAGTGACAGCTATGCCTCTGGTGAAGTGTGTTGAAGGCTGCTTTCAAGA
25284	Amacr	5'-[AminoC6]TGAAAACCTCAGGCCATGGGTCTGTGGGCACAGCCTCGAGGGCAAAACCT
81640	Amd1	5'-[AminoC6]CTCTGACTGTATGAATCTTTACGACACTTGTGAAAACGATTCGACTTGGT
362015	Ampd2	5'-[AminoC6]CAAGGAGAGGGACAGGGGGACAGGGGTCTTTGGGAACGTGATGTGGTACT
309374	Ankrd2	5'-[AminoC6]ACTCCTGGGAAGACGTCCATGGACATGCTAGTGTAGAGGACGAGAAGCG
25380	Anxa1	5'-[AminoC6]CATTGACATCCTTACCAAGAGAACCAATGCTCAGCGCCAGCAGATCAAGG
290527	Anxa11	5'-[AminoC6]TCCTGGAGGTGGCTATCCTCCAGTCCCTCCTGGTGGCTTTGGGCAGCCCC
56611	Anxa2	5'-[AminoC6]GGAGGGTGATCATTCTACACCCCAAGTGCCTATGGGTGGTCAAACCT
25291	Anxa3	5'-[AminoC6]GGCTTGAGAGCAAGGTGGACAGCCATGGCGGCTCTTTGTGGGTGGACC
79125	Anxa6	5'-[AminoC6]CATTGAAATTTTGGCTTCCCGGACCAATGAGCAGATACACCAGCTGGTGG

78963	Apaf1	5'-[AminoC6]ATAGCAACCTGCTCAGTGGATAAGAAAGTTAAGATTTGGGATTCGGGAC
29339	Apcs	5'-[AminoC6]AATCTGAAACTGATTATGTGAAGCTGATCCCATGGCTAGAAAAACCGCTG
79116	Apex1	5'-[AminoC6]CCTAAGGGCTTTCGTTACAGCGATGCCGAAGCGGGGAAGAGAGCGGCAG
289662	Apex2	5'-[AminoC6]TCCCACAGCCTTGAGACATATTTTAAGGGAAGCTGGATGCCGATATAGTCT
362170	Api5	5'-[AminoC6]TACAGTTCAGTTATGTGGAGTGCCTATTATATAGTTTTCATCAGTTGGGC
25081	Apoa1	5'-[AminoC6]ATGCAGTCAAGGACAGCGGCAGAGACTATGTGTCCCAGTTTGAATCCTCC
287774	Apoh	5'-[AminoC6]GACCTGTCCGAAGCCGGATGAACTACCGTTTGCTGTGGTTGTTCCTTAA
54226	App	5'-[AminoC6]TCTCGTGCCCGACAAGTGCAAGTTTCTACACCAGGAGCGGATGGACGTTT
286758	Aqp11	5'-[AminoC6]CCGCGTGATCGCCCGCAACAGCTGCACAGGCCCATGGTCCACGCCTTCG
25293	Aqp4	5'-[AminoC6]AGTGGAGATGCATTTTCTAGCAGTGGCAGAGTGCCTGGGCACACAGTAGGT
64310	Arf1	5'-[AminoC6]AGCTTATGAGGATGCTAGCTGAAGATGAGCTCCGAGATGCCGTTCTCTTG
29215	Arg2	5'-[AminoC6]GCCATATAAAAGACTTTGGAGACTTGAGTTTTACTAACGTTCCCAAAGAT
311193	Arhgap1	5'-[AminoC6]ACAGCTCCCAAGCCATGCCACCACGGCCCCCCTGCCTAATCAGCAATT
303559	Arl4d	5'-[AminoC6]CCTTTCTGCCACACTTCCAGGCACTGCATGTTGTGGTCATTGGGTTGGAT
25242	Arnt	5'-[AminoC6]AAGGAGAGCCTCACTTTGTGGTAGTCCACTGCACAGGTTACATCAAGGCC
25243	Arnt2	5'-[AminoC6]ACTGATAAAAAGGCTCCTGCTTGCCCCGTCCCCAGTCTTATCTAGGAAGGT
29657	Arntl	5'-[AminoC6]GAAAAAAGCAGATCGAAAGAGCTTCTGCACAATCCACAGCACAGGCTACT
170903	Arntl2	5'-[AminoC6]AGGGCAGTGCAGTACTTGAGGTCTCAGAGAGTGTGCTTGCCCGGCATAG
114104	Asah2	5'-[AminoC6]TCCTTGAGGCGTTCCTCATTTTCTTCTGGTAATGATGACGGCCATCAC
298682	Atad3a	5'-[AminoC6]CGATCGAGAGAATGCAGACATCATCCGGGAACAGATTCGACTCAAGGCTG
25389	ATF3	5'-[AminoC6]CTGCGCTGGAGTCAGTCACCATCAACAACAGACCTCTGGAGATGTCAGTC
79255	Atf4	5'-[AminoC6]CTGTTTCGAATGGATGACCTGGAAACCATGCCAGATGAGCTTTTGGCCAC
282840	Atf5	5'-[AminoC6]CTGGCCCTGCCCCCTGGGCCCTATGAGGTCTTGGGGGTGCCCTGGA
499973	Atg9b	5'-[AminoC6]ATCATTGATTTTTTCCATCACTTCACTGTGGATGTGGCTGGTGTGGGGA
365564	Atoh7	5'-[AminoC6]TTTGGGGTGGGGTGGGGTGGGAGGAATGACTTTTTCTGAGCATCACTTC
84355	Atox1	5'-[AminoC6]CCTCGCCGCCCTGTGCCGCCCTGTGCCCTGTGCCCTGTGCCG
24211	Atp1a1	5'-[AminoC6]GTGCAGTAGCGGGAGATGCTTCCGAGTCGGCGCTCTTAAAGTGCATCGAG
24213	Atp1a3	5'-[AminoC6]GGAGGAACAGTTCCCAAGGGCTTTGCCTTTGACTGTGATGACGTGAACT
29693	Atp2a2	5'-[AminoC6]GGTGCTGCTGCGTGGTGGTTCATCGCTGCTGACGGTGGTCCGAGAGTCTC
24216	Atp4a	5'-[AminoC6]GAGGGCAGTGGAGACCCTGGGTCCAAGTCTGTCTCAGAGAAAGGCTCAGA
65262	Atp5a1	5'-[AminoC6]AAGCTGAGGAGATGGTAGAGTTTTCTTCCGGCTTAAAGGGTATGTCCCTG
171374	Atp5b	5'-[AminoC6]ACCGTCAGAACTATTGCTATGGATGGCACTGAAGGCTTGGTTAGAGCCA
116550	Atp5c1	5'-[AminoC6]CGAGTATTGTGGGCTGTCCGCCCTGCTCCTTGCAGCCGAATGGATCCAA
245965	Atp5d	5'-[AminoC6]GTGGATGTGCCTACGCTGACTGGAGCCTTTGGCATCTGGCATCCCATGT
245958	Atp5e	5'-[AminoC6]AAGACTGAGTTCAAAGCGAACGCTGAGAAGACTTCGGGCACCAGCATAAA
171375	Atp5f1	5'-[AminoC6]GGTGGTACTTTCTGCCGCCGCCACAGCGCCCCGTGTCTGAAGAACGCGG
29754	Atp5g1	5'-[AminoC6]GCAGTCCCCTCTCCAGGTGGCCAGACGGGAATCCAGACCAGTGTATT
171082	Atp5g2	5'-[AminoC6]TCCAAGTTCGTCTCTACCCGCTCCCTGATCAGGAGACCTCTCAGCTGCT
114630	Atp5g3	5'-[AminoC6]CGCCAAGCTCGCTGCACCCCTCTCTGATCCGAGCTGGATCCAGAGTTG
641434	Atp5h	5'-[AminoC6]ATGTGGACAAGCCTGGCTTGGTGGATGATTTTAAAAACAAGTATAATGCT
140608	Atp5i	5'-[AminoC6]CAGGTCTCTCCGCTCATCAAGTTCGGCCGGTACTCCGCTCTGATCCTCGG
94271	Atp5j	5'-[AminoC6]GGGTAGGCGTGTGTAGGCGGAGCCAGGGCCGGAAGTAGAACGGTGGCGGC
690441	Atp5j2	5'-[AminoC6]TGGCGTCTATCGTGCCATTGAAGGAGAAGAAGCTCATGGAGGTTAAACTT
300677	Atp5l	5'-[AminoC6]GGCCAAGTTCATCCGTAACCTCGCGGACAAGGCACCGTCGATGGTGGCGG
192241	Atp5o	5'-[AminoC6]TGTGGTCAGGCCCTTTTTCGAAGCTTGTAAAGCCCCCTGTCCAGGTCTACG
362749	Atp5s	5'-[AminoC6]TAAGAACCTCAAGTATTTGTTCTTAAGTGATCTTCTTGGAAATAAAAGATA
29757	Atp6v0a1	5'-[AminoC6]ATGCTCTGTGTCCCTGGATGCTGCTGTTTAAAGCCGTTGATCCTTCGCCA

297566	Atp6v1e1	5'-[AminoC6] TTGTTTGGTGCAAATGCCAATAGGAAGTTTCTGGACTGAGCCTAAGGAGG
24218	Atp7b	5'-[AminoC6] CGTCCTGTGCATCGCCTGCCCTGCTCCCTCGGGCTGGCCACACCCACAG
313510	Atpaf1	5'-[AminoC6] AAACAGATTTGGCAGCAGTATTTTTCAGCAAAGACACTGTCTACGCAGT
303190	Atpaf2	5'-[AminoC6] ACGTATGGGTCCACCCAAACCCCTGGGCATGATGTGGCGAATCTACCCCC
25392	Atpif1	5'-[AminoC6] GGCTCCATCCGAGAAGCTGGTGGGGCCTTCGGGAAACGAGAGAAGGCTGA
361215	Auh	5'-[AminoC6] GATATTTCTGTGCTGGCGCTGACCTTAAGGAAAGAGCCAAGATGCATTCCA
311299	Aven	5'-[AminoC6] GACCAGGAGCCAGAAAAGATGGGCAGATAGCCCAGGAGGAAATAGCTCC
24221	Avp	5'-[AminoC6] CTACGCTCTCTGCTTGCTTCCTGAGCCTGCTGGCCCTCACCTCTGCCTGC
25107	Avpr1a	5'-[AminoC6] GTGGCTGTGCTGGGCAATAGCAGTGTGCTGCTGGCGCTGCATCGCACGCC
58961	Azin1	5'-[AminoC6] GGGTCCATCCTGTGACGAGCTTGATCAAATGTGGAAAGTTGCTTCTTTC
288752	B3gnt4	5'-[AminoC6] CATGTGCAGCGCTGGATAGCCGCTGCCTGCACACAGGCCACTTCATACT
64639	Bad	5'-[AminoC6] GGGCTGGGACTATGGAGACCCGGAGTCGCCACAGTTCGTACCCAGCGGG
116502	Bak1	5'-[AminoC6] CGCCTCCAGCCTATTTAAGAGCGGCATCAGCTGGGGCCGTGTGGTGGCTC
24887	Bax	5'-[AminoC6] GATGGCTGGGGAGACACCTGAGCTGACCTTGAGAGCAGCCGCCCCAGGATG
317673	Bbc3	5'-[AminoC6] GGACCCTGGCCTCCCAAAGCCAGGGAAGGGAGGGCTGAAGGACTCATGG
64564	Bbox1	5'-[AminoC6] CCTCCACCATCCACCTGGGGTTCAGCTTCTGCACTGTATCAAGCAAACAG
293852	Bcap31	5'-[AminoC6] CATCTGTTGGAAACCTTTAAGTCACAGGATGAGTCTGCAGTGGACTGCAG
25414	Bcar1	5'-[AminoC6] CCTAGTGTGGAGAAAGCCTGCCCGCTCAACCATCATTCCGTGTATGA
29592	Bcat1	5'-[AminoC6] GGGATCTTATTTTTCTAATGGGACCTTTTCTCCGGTGTCCCTGTGGGCCA
64203	Bcat2	5'-[AminoC6] GGTTCAGGTGACCAGAGAGCCACAGAAGAAGCCAGCCCTAGCCAGCCTC
361666	Bccip	5'-[AminoC6] AAGCGAGCAGTGGGAAATGGGGTCCAGCGGCCCTTGAAGCACCAGGCCA
25244	Bckdha	5'-[AminoC6] ATCTCCGGCATCCCATCTACCGCGTATGGACCGACAGGGCCAGATCAT
29711	Bckdhb	5'-[AminoC6] ATAACAAGTGCCTTGGATAACTCATTGGCCAAAGACCCTACTGCAGTAAT
29603	Bckdk	5'-[AminoC6] CCACTCACTCTCTCTACTCCTGCTTTGGGGTCACCGTTGCCGTGTCGAG
24224	Bcl2	5'-[AminoC6] GAGATCGTGATGAAGTACATCCATTATAAGCTGTACAGAGGGGCTACGA
170929	Bcl2a1d	5'-[AminoC6] CCAGAGTGCTACAGAGAGTTGCTTTCTCTGTACAAAAGGAAGTTGAAAAG
24888	Bcl2l1	5'-[AminoC6] CCCAGAAAGGATACAGCTGGAGTCAGTTTAGCGATGTCTGAAGAGAACAGG
114552	Bcl2l10	5'-[AminoC6] GTGAGCTTGCTGTACAATCGACTCACAGGACGGCATCGCTCCTGGCTGGA
312682	Bcl2l13	5'-[AminoC6] CGCTGCCTCTGTACCCTGTGGGAAGCACCTGCTGCCACCGCCGTCTCCTT
360551	Bcl6b	5'-[AminoC6] AGTCCCCGGCTGGGCATAAGACCGGGGTGTCGAGCAGCAAGCGGAGGAG
315644	Bco2	5'-[AminoC6] CCAGTTCAAATGGAGAAGGGTACAGTGACATACAAGAGCAAGTTTCTAC
301514	Bcs1l	5'-[AminoC6] CGGCGTGCCAGACGGAGGACAGAGTGGCGGTGGAGGAGCGTTGCAGGAGA
117099	Bdh1	5'-[AminoC6] CTTTCAGCCCTGACACCCGTCGGACCTACACCAGTCAGGCAGATGCGGCT
24225	Bdnf	5'-[AminoC6] GAAACAAAGTGGCTGTCCACTGTGACTCAGGGAGTGAAGATACCATCAGC
79431	Bhlhe40	5'-[AminoC6] GTGCCACTGTTATACCCAGGCCTCAACACCTCAGCAGCAGCCCTCTCCAG
64625	Bid	5'-[AminoC6] CTCAGGCCTGGGGCCGAGCACATCACAAACCTGCTGGTGTTCGGCTTTC
60371	Birc2	5'-[AminoC6] GTTGATGAGATTCAAGCTAGATATCCTCATCTTCTTGAGCAGCTGTTGTC
364403	Blk	5'-[AminoC6] ACCTGCAAGTGCTAAAGGGAGAGAAGCTCCAAGTCTTGAAGGACTGGA
83470	Bmp1	5'-[AminoC6] CAGTACAACAACATGCGTGTGGAGTTCAAGTCTGACAATACTGTGTCCAA
140932	Bnip1	5'-[AminoC6] CTTGCCATCGACAACCTGGAGAAAGCAGAACTTCTGCAAGGAGGAGACTC
140923	Bnip3l	5'-[AminoC6] TTGGCCTGTA AAAACACTTTAGAGATTCCTAACAGAGTTTACTGTTGTTTA
296973	Bpgm	5'-[AminoC6] GCTGTACTGCTGTTCTCGAACCTCACCAATTGAGAACTCCAGGGCAGCC
114486	Braf	5'-[AminoC6] GGTCTTCAAAGGTTGGGTAATTTAGTAGCTGAGTTCCTAGGTAGAAAT
25246	Bsg	5'-[AminoC6] GCTGCTCTTGGACGAGCGACATGGCGGCGGCGCTGCTGCTGGCGCTGGC
287609	Bzrap1	5'-[AminoC6] CCTCAGGACCCCGAGAACATTCAGCCGGCTTCTTGGAATGGCGGGCC
360887	Cabc1	5'-[AminoC6] AGTGAGCGGGCTCGGGAGCGGAAGGTGCCAGTTACCCGGATTGGGCGGTT
300992	Cacna2d2	5'-[AminoC6] GCAGTGCCACGGGAGTCAACCCGCTATTACCCAGCCACACCGTGGCGAGCC

24240	Cad	5' - [AminoC6] CCTCGGCGGATCTTCCACCTGCCTCTCCAGGAGGACACCTATGTAGAGGT
24245	Camk2b	5' - [AminoC6] CCCTTCCCTGCCACCAGCAGCTGAGCGAGAGTGGCCACCCCTGGCCCGG
24246	Camk2d	5' - [AminoC6] GATACCCACCCTTCTGGGATGAAGATCAGCATAGACTGTATCAGCAGATC
171140	Camk2g	5' - [AminoC6] AGGGTGTGCGGTCAAGCTAGCTGATTTTGGCCTGGCCATCGAAGTGCAG
25050	Camk4	5' - [AminoC6] CCTGGTCTTGAGCTAGTCACAGGAGGAGAACTGTTTGACAGGATTGTGG
29144	Canx	5' - [AminoC6] ATGATGGGTGGGGCTGAAGAAAGCTGCTGATGGGGCTGCAGAGCCAGGT
116653	Cap2	5' - [AminoC6] CGAGAGCATCGCCGCCCTGGGGTGGATAGCCGTGTCTCCCAAACCTGGTC
29153	Capn1	5' - [AminoC6] GAAATTACCTGACCATCTTCCGAAAGTTTGACCTGGACAAGTCTGGCAGC
29154	Capn2	5' - [AminoC6] ATGACGAACTCATCATCGACTTTGACAACTTTGTGCGGTGTTTGGTTCCG
29155	Capn3	5' - [AminoC6] GGTGATTTGCAGCTTCTCTGTTGGCTCTGATGCAGAAAAATCGGGCAAGG
493810	Capza2	5' - [AminoC6] ACCATTATTGCATGCATCGAAAGCCATCAGTTTCAAGCAAAAACTTTTGG
54233	Car5a	5' - [AminoC6] GCACATGGGACCTCTCTGTGCCACAAGGCCACAGCACTGGCGCTTCCAGC
302669	Car5b	5' - [AminoC6] TGCCCTCCACATCTGGAACAATGGGTACTCCTTTTCTGTGGAATTTGAAGA
315120	Card10	5' - [AminoC6] TGGGGCTGGTGAGGCCAAGCCTGCAGGGGCACCTGCAGGAGACTCAGCG
304314	Card11	5' - [AminoC6] GGAGCAGGTCAACCTCATGTTCCGGAAGTTCTCTTTAGAAAGGCCCTTCC
294770	Card6	5' - [AminoC6] TGGGACAGCGGCCCTCTCATGTTGGTCCACATACATTTCTTCTGGTTCACAAG
64171	Card9	5' - [AminoC6] TGCAAAGTCTGAACCCCGATGATGAGGAGCAGGTGCTCAGTGACCCCAA
25166	Casp1	5' - [AminoC6] GTGCGATCATGTCACTAAAAAAGGACCCCGGGCAAGCCAGATGTTTATCA
156117	Casp12	5' - [AminoC6] ATGGACAAAAATGTTTAAATGGCGATGAGTTACTCAAAATCGGAGAAGG
299587	Casp14	5' - [AminoC6] GCCCGCTGGCCCTGACGCTGTGTGTCACCAAAGCCCGGAGGGTTCTGA
64314	Casp2	5' - [AminoC6] AATTAATGAAGATGAGACTTCTACTCGCTCAGACATGATATGTGGCTAT
25402	Casp3	5' - [AminoC6] TAAGTCATGGAGATGAAGGAGTAATTTTTGGAACGAACGGACCTGTGGAC
114555	Casp4	5' - [AminoC6] AAACACAACCAAGTGGGCAAAATGCTTCTCCAGACATTTCTTAAATGTGGA
83584	Casp6	5' - [AminoC6] CAGGGGAAAGTAAACATGACGGAGACAGATGGCTTCTACAGAAAGTAGGG
64026	Casp7	5' - [AminoC6] ACCACAGCAACTCAGCCTGCTTCGCCTGCTGCTGAGCCACGGAGAA
64044	Casp8	5' - [AminoC6] TACCCTAAAATCAATCTGTTTCCGGGTCAACAGGAGCTTGTGTTGGAAGGA
58918	Casp9	5' - [AminoC6] CGGGCAGGCTCTGGGTCTCGCGGGATCAGGCCAGGCAGCTGGTTCATAGA
686019	Casq1	5' - [AminoC6] GTGGCCAAGAACTAGGCCTAACTGAAGAGGACAGCGTGTATGTGTTCAA
29209	Casq2	5' - [AminoC6] CAAGGTCGCACAGAAGCAGTTCCAACCTGAAGGAGATCGTACTGGAGCTTG
24248	Cat	5' - [AminoC6] TCCACAGTCGCTGGAGAGTCAGGCTCAGCTGACACAGTTCGTGACCCTCG
25298	Cck	5' - [AminoC6] CTGGCCGCATGTCCGTTCTTAAAGAACCTGCAGGGCCTGGACCCTAGCCAC
310395	Ccrn4l	5' - [AminoC6] GTTCCGATCAGCTCAGGGATGTGACCTCCTCCAGAACCTGCAGAACATCA
29374	Cct4	5' - [AminoC6] GCCAGGGAGACCGTTACTCCACAGCAGGCCGGAATCCGTGTCCATCGGTC
288620	Cct6a	5' - [AminoC6] GCGCTTCAAACAGCATCGTTTATTATAATACTCCCTAATTTGGGAACCAGT
25668	CD38	5' - [AminoC6] GAAAATTGTCCCAACAACCCGTGTGCTGTGTTCTGGAATGTGATTTCCCA
25407	Cd59	5' - [AminoC6] ATGCTACAACCTGTTTAGACCCGGTTTCTTCATGCAAAACAACAGCACTT
192248	Cdh13	5' - [AminoC6] TGGAGAATGAGGACCCATTGGTACCCGACGCTCTCCTATGGCCCCAGCTCC
54237	Cdk1	5' - [AminoC6] TGCCAGTACGGCAATCCGGGAAATCTCTCTGTTAAAAGAACTTCGACAT
94201	Cdk4	5' - [AminoC6] ATCGGGACATCAAGGTCACCTTAGTGTGTTGAGCATATAGACCAGGACCTA
252827	Cdk5rap1	5' - [AminoC6] TGTGCTTAGGACCTTCAGGGCACATAACAGCACTTCCTGTCTGATCCA
114101	Cds2	5' - [AminoC6] AAAGTTAGATGGAGAGACCGCATCAGACAGCGAGAGTTCGAGCGGAAACAG
312680	Cecr5	5' - [AminoC6] AGAGGCGAAGGGGGCCGTTGGAACATGCACCTCAGGGACTCCTGTGTGCC
366624	Cfl2	5' - [AminoC6] ACCGTTAAAAAGCAAGATGATTTATGCTAGCTCTAAAGATGCCATTAATA
117279	Cflar	5' - [AminoC6] ATTTGAATCAATCTGATGTATCCTCCTTAATTTTCTTACAAAGGATTAC
288242	Chaf1b	5' - [AminoC6] GACTCTGACTATGACAAGCTGAGTGACATGGTAAAATACCTGGATCTGGA
296966	Chchd3	5' - [AminoC6] CGATATTCAGTGTGTTATGGTGTCTCAGTTTCTGATGAAGAATTGAAAAG
308215	Chd1	5' - [AminoC6] GAGGAAGCAGTATACAATCCCATGCCATACAAAGGCTGCTCACTTCGATA

308738	Chd2	5'-[AminoC6]CTAGGGGAGCTGGTTCATAATAGCTGTGTGTCAGCAATGCAGGAGTATGA
303241	Chd3	5'-[AminoC6]AGATGTAAAAGCAGATCGGGAGCTTCGACTTGGGCCTCCTCGGGATGAGC
117535	Chd4	5'-[AminoC6]AAGAGGAGGTAGAACCGGAAATCATAAAACAGGAAGAAAGTGTGGATCCT
691589	Chd5	5'-[AminoC6]GATCGACGGGGGTATCACTGGGGGCCTCCGGCAAGAAGCCATCGACAGAT
311607	Chd6	5'-[AminoC6]TTGATACAGAGCTTGGTGACATGCCCCCTTCTCCTTCTCTTTCAAGTCCC
65027	Chd8	5'-[AminoC6]GAGAATGCTGTTCAAGTCCCCAGTCTGGACAGTCTGACTTTAAACTAGA
64152	Chp	5'-[AminoC6]TCTCCATTCAGTCTTTCAGCTGTCTCTGTGCGTTGAGATTCCCTGCATT
25302	Chrna7	5'-[AminoC6]GCATATTCAGAGCTCCTGCTACATTGACGTTTCGCTGGTTCCCTTTTGAT
309361	Chuk	5'-[AminoC6]ACGTTAGCACAAATGATAGAAGAAAATCTGAACGTCTCTGGCCATTTAAG
364388	Cideb	5'-[AminoC6]GACTGCGGTGGAGACTGAAGACTTCTTCGAGCTGCTAGAGGATGACACAT
362859	Ckap4	5'-[AminoC6]CCACGTGGTGAAGGATGCCCGAGAGCGGGACTTCACGTCCCTGGAGAACA
24264	Ckb	5'-[AminoC6]ATATGGCCAAGGTGCTGACCCCCGAGCTGTACGCGGAGCTCCGTGCCAAG
29593	Ckmt1	5'-[AminoC6]GTCGCGACCCCTATTTTGGCTCCAGTCTCCGACCTGCTCCGTCCTCTCT
688698	Ckmt2	5'-[AminoC6]GTGCCTTCTCTAAGTTGCTAACTGGCCGAAATGCATCTCTGCTGTTTACG
365395	Clcf1	5'-[AminoC6]CTACCTGGAGCATCAACTCCGCAGCTTAGCTGGGACCTACCTGAACTACC
84360	Clcn3	5'-[AminoC6]GTGCTTTGCCAACACACTCCATCTCTTCCAGCAGAAAAGTCTCCGGCCAT
406864	Clic1	5'-[AminoC6]CCGGGCCGTGAGACCCGCCTTCCCTTGCCCGGGCCCTCCAGTTCCCCC
83718	Clic4	5'-[AminoC6]TGCCCTTTTACAGAGGCTCTTCATGATTTTGTGGCTCAAAGGAGTCGT
293485	Cln3	5'-[AminoC6]TTTTCTTGACGCTAACTCCTAACACACGCTGACTTTAGGTCTTTGGGGG
60447	Clock	5'-[AminoC6]TACTGTTGAAGAACCGAATGAAGAGTTCACATCTAGACACAGTTTAGAAT
301117	Clpp	5'-[AminoC6]GACAGGCTGCCAGCATGGGCTCCCTGCTCCTTGCTGCTGGCAGCCCAGGG
300786	Clpx	5'-[AminoC6]ATGTGCCAGTTTTAGGAAGACTGGGGACCTTGACACTCAGATTCTGCGC
59322	Cnksr2	5'-[AminoC6]GCCTCGAAGTTTTACTCTGCCTCGAGATAGCGGGTTCACCATTGCTGTC
25248	Cnr1	5'-[AminoC6]GTAATCGCTGTGTGCCTCTCCTGGGCTGGAAGTGAAGAAGCTGCAATC
294337	Col6a1	5'-[AminoC6]TGTGGACATGATAAAAATAATGTGGAGCAAGTGTGTGTACTTTTGAGT
24267	Comt	5'-[AminoC6]TTTGAGTACGTGCTGCAGCCAGTCCACAACCTGATCATGGGTGACACAAA
60384	Copb2	5'-[AminoC6]AACGGTGCGAATTTGGCACTCCAGCACCTACCGGCTGGAGAGCACACTGA
498332	Coq2	5'-[AminoC6]GCTGTCAAGGGCTCCTGTGATCCAGCTGTGTGCCTGCCTCTTTATTTTTT
29309	Coq3	5'-[AminoC6]CAAAACCTTCCAGGCCCTGGCTCACTCATGGTGGGATGAGCAAGGGAAGT
366013	Coq4	5'-[AminoC6]GCCGCGAGCCATGGCGCCCGCTGCTGTACCCAGACCACATCCCTACTAC
304542	Coq5	5'-[AminoC6]AGAGCGTGGCCAGGAAGTACGACCTGATGAATGACATGATGAGCCTCGGC
299195	Coq6	5'-[AminoC6]AACCTGGAGAACTGTGAGAACTTACAGCAACAGAGTCAAGTCCATAT
25249	Coq7	5'-[AminoC6]CATCTATGCAGGGCAGATGGCTGTGCTTGGACGGACCAGTGTGGCCCTG
498909	Coq9	5'-[AminoC6]TGAGACACAGGGGCCAGAGTTTTCTCGTCCACCCCCAGGTACACAGACC
25305	Cort	5'-[AminoC6]ATGAGTGGGCTTCCCAAGACAGCTCCAGCACCGCTTTCGAAGGGGGTACC
690300	Cox11	5'-[AminoC6]ATCAGCAGTGGCTGGGCATGCCTCAGACCAGATTGAAAACATGGTGCCTG
309391	Cox15	5'-[AminoC6]AAACCCGACAGCTCCTGTGGCTGAGACGCTTTGCTGGTGAACAGCAGGC
89786	Cox17	5'-[AminoC6]CCCTGCTGTGCCTGCCCGGAGACCAAGAAGGCGCGTGATGCGTGCATCAT
289522	Cox18	5'-[AminoC6]TCCTGCGTGGTGTGCTCACTCTGCCCTGGCCGCCTATCAACATTACATC
304330	Cox19	5'-[AminoC6]ACCGCAATGAACTTCGGGACCAAAAGCTTCAGCCGCGGCCCCCAGACAA
29445	Cox4i1	5'-[AminoC6]TTGCCTGATGTGGCCACGTCAAGCTGCTGTCTGCCAGCCAGAAGGCCCT
361425	Cox4nb	5'-[AminoC6]TCGTGTTTCGTACTGTGGTGCCTTGGTGCAGCGACCGACCAGTGGCTCA
252934	Cox5a	5'-[AminoC6]TATTCTCATGGGTACATGAGACAGATGAGGAGTTTGATGCTCGCTGGGT
94194	Cox5b	5'-[AminoC6]CTTCGGGCACCAAGGAAGACCCCAATCTAGTCCCATCCGTTAGCAACAAG
25282	Cox6a1	5'-[AminoC6]AGTGCCTCTCGAGTCTCTGGGCTGCTGGGCCGGGCCCTCCACGGGTGGG
54322	Cox6c	5'-[AminoC6]GGGAAGGACGTTGGTATAGAGGACATTTGGCTACCATGAGTTCGGGTGCTC
29507	Cox7a2	5'-[AminoC6]TCAGTAGTCGCGGTTGGTGGGTAACAACAGCTAGATGCTGCGGAATG

298762	Cox7a2l	5'-[AminoC6]GAGCAGTCGCCGAGGTTTCTCTGTGTGTACGGCACCCCTAGGCAAGGGTTT
303393	Cox7b	5'-[AminoC6]GTAGTCACCGCAGTTCATCCTTGTCTCCGCGATGTTGCCCTTGGCCAAA
100188937	Cox7c	5'-[AminoC6]GTGAAGAAAGTAGGGTGAGGTGGTACGGTCATTTCTTCTGCCTTCCGTCT
171335	Cox8a	5'-[AminoC6]TGTGTTGTCTTCTACCTGCGGGCTGGGTCCGTGTCACACCTGGAAAGCTAC
25250	Cox8b	5'-[AminoC6]CTAAAGCCCGTATCTCTTCCAAGCCAGCCAAATCTCCCACTTCCGCCATG
360229	Cox8c	5'-[AminoC6]TCTGGTGGTCTCCCATTTGCTCTTCCCTCGGTGGCCCTTTTCTGACCTGTG
304024	Cpox	5'-[AminoC6]GAAGGAGGTGGTGGCATCACCTGTGTGCTTCAGGACGGGCGTGTGTTTGA
497840	Cps1	5'-[AminoC6]AAGTTTCCAGAAGGCTCTGAGGATGTGCCATCCATCTGTGGATGGGTTCA
25757	Cpt1a	5'-[AminoC6]GAAAACGGACCCCTCGTGATACAAACCAAATGAATAGATGTTGCTCCTGAC
25756	Cpt1b	5'-[AminoC6]GGGAAACACCGTTCACGCCATGATCATGTATCGCCGCAAACCTGGACCGAG
308579	Cpt1c	5'-[AminoC6]CGCGGGACTGACCAGAGAGAACCCCGCAGCTTCCCTGGACACCTATGCC
25413	Cpt2	5'-[AminoC6]GTTTCTGCAGTCCGGTTTCTGAAGACACTTCAGGCTGGCCTTTTAGAACC
311849	Crat	5'-[AminoC6]GGGCCTCCTCAAGCCCTCCTCCTTGATGAAGGTGTCTGGTCGATTTAAGG
81646	Creb1	5'-[AminoC6]GTCCTCCCAGCACTTCTTACACAGCCTGCTGAAGAAGCAGCACGAAAGA
25620	Crem	5'-[AminoC6]GTGGTGATGGTGCCTCACCAGGAAGCCTGCACAGTCCCAGCAACTAGC
81648	Crh	5'-[AminoC6]CCGGAGCAGCCCCAGCAACCTCAGCCGATTTCTGATCCGCATGGGTGAAGA
83842	Crot	5'-[AminoC6]ATCAGAAGTTACTTGAAGGGCTAAAGGAAAAGAAACTGGCTGGAAGAG
60446	Crx	5'-[AminoC6]CGGATGTGTATGCACGTGAGGAGGTGCTCTCAAGATCAACCTGCCTGAG
299691	Cry1	5'-[AminoC6]GCACGACAACCCCGCCCTGAAGGAGTGCATCCAGGGCGCCGACACCATCC
170917	Cry2	5'-[AminoC6]ATTCTTGTCTGGCCAGCCCCACAGCCCTCAGCCCTTACCTGCGCTTTGGC
25420	Cryab	5'-[AminoC6]AGTCTGACCTCTTTTCTACAGCCACTTCCCTGAGCCCTTCTACCTTCGG
362061	Cryz	5'-[AminoC6]TGTTTGAATTTGGTGGACCGAAGTGCTGAAGCTCCAGTCTGATGTGGTA
170587	Cs	5'-[AminoC6]CCTTGCTGCCCGGCACGCCAGTGCTTCTTCCACGAATTTGAAAGACATAC
171081	Csf2rb	5'-[AminoC6]CAGCAAGAGCCTCCTTTTCCAGGATGGAGGTAAAGGACTCTGGCCTCCTG
113927	Csnk1a1	5'-[AminoC6]CGGAAGATCGGATCTGGTTTCCCTTCGGGGACATTTATCTAGCGATCAACAT
64462	Csnk1d	5'-[AminoC6]AGACCTTGAGAGCCATATAGGCTGCTGGAGAATTCGAAGATTCAAAGCTG
58822	Csnk1e	5'-[AminoC6]CATTGACTTCGGCCTGGCCAAGAAGTACCGGGATGCCCGTACACACCAGC
64086	Csnk1g1	5'-[AminoC6]GCACTTCAACATCTCTGGGGTTCTCATGGTGGGACCCAACCTCAGGGTT
65278	Csnk1g2	5'-[AminoC6]ACTGGGCGGCAAGCCCTGCCGACACCTATCGGCACCGTCCATCCTGAT
64823	Csnk1g3	5'-[AminoC6]GAGAATATTCTGGAGAGAGGGTGGGCAGGGTGCTTTGCCCTCCATAGCTTT
116549	Csnk2a1	5'-[AminoC6]GCATGGGGATTATGCACAGAGACGTGAAACCGCATAATGTATGATTGAT
307641	Csnk2a2	5'-[AminoC6]AGCAGAACAAGAACCAAATCAAAACGCTTAAACGCGTGTAGCGAGATCAC
81650	Csnk2b	5'-[AminoC6]TCTTCTGTGAGGTGGATGAAGACTACATCCAGGACAAATTTAATCTTACT
683927	Cstf2	5'-[AminoC6]ACCCAGAGCAGCTATGCAGCGGGGAGCCTTGCCCTGCCAACGTCCTCAACT
307505	Ctnna1	5'-[AminoC6]GGCTTTAGCGGCAAGCCACAGAGTAAACTGGCCCAAGAGAACATGGATC
171293	Ctsd	5'-[AminoC6]TAAAAACTACCTGGATGCCAGTACTATGGTGTGATCGGCATTGGGACT
64001	Cyb5a	5'-[AminoC6]GCCGAGCAGTCAGACAAGGATGTGAAGTACTACACTCTGGAGGAGATTCA
80773	Cyb5b	5'-[AminoC6]ACAATTCATGCCAAAGTTCCTGGGCATATTGGATTGTCCCCATCGTGGGT
304805	Cyb5r1	5'-[AminoC6]TCCGGGGCCGAGTGGGTGCTCAGTTATGCTGGGAAAGGGAATTTAAC
365345	Cyb5r2	5'-[AminoC6]AAAACAGTCACTTGCCATGAAGGTGCTAGTGAGTCCCCAAGCCACTCAC
25035	Cyb5r3	5'-[AminoC6]GGCGCTTCCGATTTGCACTCCCTTCGCCCCAGCACATCCTGGGCCTTCCT
79129	Cyba	5'-[AminoC6]TGCTTACTCTATTGTTGCAGGAGTGCTCATCTGTCTGCTGGAGTACCCCC
66021	Cybb	5'-[AminoC6]GCTCTGGCCCGGCACCTGCAGCCTGCCTGAATTTCAACTGCATGCTGAT
300047	Cyc1	5'-[AminoC6]GCAAGAGCTGCTAACAAATGGAGCTTTACCCCTGACCTCAGCTACATCGT
25309	Cycs	5'-[AminoC6]ACACTGTGGAAAAAGGAGGCAAGCATAAGACTGGACCAAACCTCCATGGT
29680	Cyp11a1	5'-[AminoC6]GTCCTAAACCAAGAGGTGATGGCCCTGACTCCATCAAGAACCTCGTGCC
500892	Cyp11b1	5'-[AminoC6]GCGCTTCAACCGACTGCAGCTGAATCCAAATATGCTGTACCAAAAAGCCA

24294	Cyp11b2	5'-[AminoC6]GCGCTTCAACCGACTGAAACTGAACCCAAACGTGCTGTCACCAAAAGCTG
25146	Cyp17a1	5'-[AminoC6]TGTCGGACCAAGGGAAAGGCGTGGCCTTTGCAGATGCTGGTAGCTCCTGG
25147	Cyp19a1	5'-[AminoC6]TAATGTCAACCATCATGGTCCCGGAAACTGTGCCTGTCAAGTCCATGCCAC
24296	Cyp1a1	5'-[AminoC6]GGAAGAGCACGTGAGCAAAGAGGCTGAATACTTAATCAGCAAGTTCCAGA
24297	Cyp1a2	5'-[AminoC6]CTACTTGGAGGAGCACGTGAGCAAAGAGGCTAACCATCTAATCAGCAAGT
25426	Cyp1b1	5'-[AminoC6]TTAGGTTCTGACTGAGCCAAGAGTGGGTGCTAAAGCAGCGGGCCTCAGGT
25279	Cyp24a1	5'-[AminoC6]GAAGGACAGGAGTGGCAAAGGGTCCGCAGCGCCTTCCAGAAGAACTCAT
301517	Cyp27a1	5'-[AminoC6]ATAAGAGACAGCATGGAGCAGTGAAGGAGCACCGAGACCACAAAGGCCT
114700	Cyp27b1	5'-[AminoC6]ACCAGCGGGCTTGC GGTTGCTAACGGCGGATGGTGAAGAATGGCAGAGG
24300	Cyp2b1	5'-[AminoC6]ATGAGAGACTTTGGGATGGGAAAAGAGGAGTGTGGAAGAACGGATTCAGGA
29277	Cyp2c11	5'-[AminoC6]GAGTTTACCCTTAAAAGCTTGGTGGCTACTGTAACAGCATGTTTGGAGC
100359554	Cyp2c26l	5'-[AminoC6]ACCGTGTCAAGAGGAAACACAGTGCCTTGTGTAGGAACTGAGGAAAACC
29298	Cyp2c7	5'-[AminoC6]ACAGCCCACTGTATATTGCATGGATATGAAGCAATAAAGGAAGCTCTGA
25086	Cyp2e1	5'-[AminoC6]CAAGAATGAGTTTTCTGACGGGGGACATTCCTGTGTTCCAGGAGTACA
65210	Cyp2j4	5'-[AminoC6]CGCCCCAAGAATATCCCCGGGGCCTTGGGGTCTCCCATTCGTGGGCAA
25642	Cyp3a23/3a1	5'-[AminoC6]ACACAGAAATGATCAAGAATGTGCTAGTGAAGGAATGCTTTTCTGTCTTC
170509	Cyp3a62	5'-[AminoC6]TCCATTCTTACCCAGTTTTTGAAGCATTGACATAACTGTGTTTCCAA
171352	Cyp3a9	5'-[AminoC6]TATATGGAACCTCATTACATGGAATTTTTAAAAAGTTGGGAATTCCTGGG
25429	Cyp7b1	5'-[AminoC6]TCTGGGCTCTCTAGCAAACACCATTCCAGCTATGTTCTGGGCAATGTAT
81924	Cyp8b1	5'-[AminoC6]GGTTTGTCTACTCCCTGCTGGGGCCCTGGAGTGGGTAGAAGTGAGCCAG
25699	Dbh	5'-[AminoC6]AGTCTCCGACCCAATGAGGCAGGCATCATGGAGCTTGACTGGTGTACAC
24309	Dbp	5'-[AminoC6]CAGATATCTGTGCGGGCAGCCTTCTGGAGAAGGAAAACGCCCTATTGCG
29611	Dbt	5'-[AminoC6]GCTCAGTACCACAGACCTCACGGGAGGGACATTCACTCTTTCCAACATTG
29740	Dci	5'-[AminoC6]GAAGGAGGGCGAGGCAGGAATCGCAGTATGAAGTTCAAGAACCCTCCAG
29167	Dctn1	5'-[AminoC6]TGATGAGCGTGGAGGTGGGGCGGCTGCGTGCCTTCTTGCAGGGTGGGCA
299850	Dctn2	5'-[AminoC6]GGATGATCAAGCAGAGTTTGATGCGGAGGAGCTGAGCAGCACAAAGTGTGG
362504	Dctn3	5'-[AminoC6]GGGTGAAGATTCTCTACAAAAAGATTGAAGACCTGATCAAATACCTGGAT
84428	Dctn4	5'-[AminoC6]CACACCTCTCCACCCGAGCTACAAGCATCTCCACACAGCTTCCAGACGA
308961	Dctn5	5'-[AminoC6]AAGCCAGAACATCGTTCTCAATGGCAAGACCATTATAATGAATGACTGTA
290798	Dctn6	5'-[AminoC6]GAAGATCGCTCCCGGAGCAGTAGTATGTGTAGAAAGTGAAATCCGAGGAG
171408	Dcxr	5'-[AminoC6]TGCTGTGGCTACGTTGCAGCCCTTCTGGAGGTCACCAAGGAGGCTGTG
24311	Ddc	5'-[AminoC6]CACGGCCAGCTCCTACCCAGCTATGCTTGC GGACATGCTGTGCGGGGCTA
313648	Ddost	5'-[AminoC6]ACGCACTCACTGTTCTTCCGACGCTGAAGGACCGGGGCTTTGAGCTCAC
25678	Ddr1	5'-[AminoC6]ATGCCCTGGGCATGCAGGACCGCACCATTCCAGACAGCGATATCTCTGTG
685781	Ddr2	5'-[AminoC6]CAGCCCTATTCCCAGCTGTGCGACGAGCAGGTTATGAGAATACTGGAGA
84474	Ddx1	5'-[AminoC6]GCAACTATTAAGCTGGTGTCTGTGCTCAACAAGTGGCAGATGAACCC
300710	Ddx10	5'-[AminoC6]TCTACAATGAATTTGTCCGAAAAGAGGGCTGCAGTCTTTTGTACTGAT
316767	Ddx11	5'-[AminoC6]TACCGCTTGACGCTCAAAGGGGTTGATCCTTGAATCCTCCCCAGATTGA
315133	Ddx17	5'-[AminoC6]GTCCTGCACGGCACTGATCCTTCTTTACTCTGTTGGGATGAGTCTTCTTT
308490	Ddx18	5'-[AminoC6]ACTAGGAAAAGGTGAAAAGCTAAAAGGCCCTGAAGCATTCTGTGACTG
292022	Ddx19a	5'-[AminoC6]CACTGCAAAACAGGAAAAGTATTGAGCAGATGGGCAAATTCATCCAGAA
84473	Ddx20	5'-[AminoC6]AAGAATGCTTGGATTGCGATGTGGAAGTTAAAGCTGCGATGCACACTTAC
317399	Ddx21	5'-[AminoC6]GTGACCATGATCCTGCGGTGTTCTGTTGAGATGCCCAACATTAGTTATGC
300208	Ddx23	5'-[AminoC6]AGGATGAGGAGGGCCGGCAGAAGATCCGGGAGGAGAAGGACAAGAGCAAG
373065	Ddx24	5'-[AminoC6]CTTGGAGCTGCTGAGACAGGAAGCGGGAAAACGCTGGCTTTTGCCATCCC
58856	Ddx25	5'-[AminoC6]GGAAGAACCCTTCGTGGTATTAGGAGTACCACAGTCCCAAACATAGACGGC
362274	Ddx27	5'-[AminoC6]CCGGCTCATCGACCACCTCCCAACTGCCTTCTTCCACCTGAGCAGCA

364995	Ddx28	5'-[AminoC6]AAGAGGCGCCCGCCATGAGGAACCTCTCGTCCCGGGGCAACTTCGTGGAC
311835	Ddx31	5'-[AminoC6]ATACAGCGTAGTGATGGCCCTATGCTTTGGTCCTAGTGCCACCAGAGA
89827	Ddx39	5'-[AminoC6]TCCATCCACAGTTCTGGCTTCCGGGACTTTCTGCTGAAGCCGGAGCTCCT
317335	Ddx3x	5'-[AminoC6]TATGGAGGCTTTTACAACAGTGATGGATACGGAGGAAATTACAACCTCCCA
310090	Ddx4	5'-[AminoC6]TGAATAACAACATTGCTAAGGCTGGCTATACCAAGCTCACTCCTGTGCAG
314336	Ddx41	5'-[AminoC6]ATCAGACCAGCACCTCAAAGAGAAGGCTGAAGCACGCAAGGAGTCCGCC
303607	Ddx42	5'-[AminoC6]CTGGTAGAGTTTACTTCTTCCGGGAGTGTCTCTTGTGTTGTACCAAGAA
287765	Ddx5	5'-[AminoC6]TGAAGCAAACCTTCTCTGCAAATGTCATGGATGTGATTGCAAGGCAGAACT
117543	Decr1	5'-[AminoC6]ATCAAAGCATCGATGCTCCACAGTCTAAATTCTTCCCACCCATTTTAAAG
64362	Des	5'-[AminoC6]GCAGAGGCTCAAGGCCAAGCTACAGGAGGAAATCCAACCTGAGAGAAGAAG
114214	Dffa	5'-[AminoC6]CCACCCGCACTCCCTCCACCTCCCGCCCTGCGGTGAGCTCTCCTCGCTCC
84359	Dffb	5'-[AminoC6]TACACAGCTCGTGCAAGTTCGGCGTGGCGGCCCGGAGCTGCCAGGAGCTG
297389	Dguok	5'-[AminoC6]AGCGTCTTCCGTTCACAGCCTCGGAACGCGCTCGTGACGACCCACGCG
65156	Dhodh	5'-[AminoC6]CTCTTCACTCTTACCTGACGGCCACAGGGGATGACCATTTCTATGCTGA
288923	Dhps	5'-[AminoC6]GGTAGATTACCACGCGCTTCTGGAAGCCTACGGCACCACCGGCTTCCAGG
266886	Dhrs4	5'-[AminoC6]GGGAAGGCAGAGGATCGAGAAAAGCTGGTAAACATGGCTCTGAAGCTTCA
289693	Dhx15	5'-[AminoC6]AAGTTGGTGATATTAATAATCATTCCATTATATTTTACACTTCCACCCAG
294232	Dhx16	5'-[AminoC6]ATAGACCTGTGGATCCTATACAGGCCGTGGACTTCACCCACTGCTGAG
367172	Dhx30	5'-[AminoC6]TTGTCCATGACCCAGCAAGACTCCCACAACCCACTCAGGGACTCAAGGGG
361667	Dhx32	5'-[AminoC6]GTATTTCATCGCGATATTACAAACTTCTGAAAGAGAGAGAGGAGCTTCCGA
287464	Dhx33	5'-[AminoC6]CAACGCGGTCTCATCGGGGAAACTGGCTCTGGGAAGACAACCTCAGATCC
362260	Dhx35	5'-[AminoC6]GGGTTCTCCCCATGTATGCAGGACTGCCTTCTTTTGAGCAGATGAAGGTG
310461	Dhx36	5'-[AminoC6]TGTTTTGTTGCTTGTGTTTTTTAATTTTTTTAAAAGTTCTTATATTAACCT
288647	Dhx37	5'-[AminoC6]AGCTGGTCTGGGTGACCACCTGGCCCGCGGGTTCAGAGTGAGACCTGC
292007	Dhx38	5'-[AminoC6]CCAGATCGTAGAGCACCTAGAGGAGCTGGAGAACGCGCCTGCCTTGGCTG
287727	Dhx8	5'-[AminoC6]TTCCTGAGTGGAAGAAGCATGCCTTTGGGGCAACAAAGCTTCTTACGGG
304859	Dhx9	5'-[AminoC6]AAACTCCCATTGAGCCTCGTTTTGGAAAATGATGATAATGGGGTGTAT
81654	Dlat	5'-[AminoC6]TGCAGGCAGGCACCATAGCCCGCTGGGAAAAAAAAAGAGGGGAAAAATC
298942	Dld	5'-[AminoC6]AGGGGGCTTCTTCAGTTCATTAAGAACTTATTTCAGATCAACCAATTGAT
245961	Dmgdh	5'-[AminoC6]TCCCTATGAAAGTCAGGAGAAGATGAAACTTCAAGCCTCCTGGGTCGCTC
117251	Dnah9	5'-[AminoC6]CTCCAGTACAGGCAGGAACTCCAGCCCAATGGAGTTCCTGTCCCACCAG
140694	Dnm1	5'-[AminoC6]AGCTACGCTATCAAGAACATTCATGGCATCAGGACAGGCCTCTTCACTCC
114114	Dnm1l	5'-[AminoC6]TCTTCACACCAAAAACAAGCTTTACACAGATTTTGATGAAATTCGACAAG
84350	Dnmt1	5'-[AminoC6]GGTATCAGAGCCCAAAGAGCCCGAGGCAGCCATCAAACCTGCCTAAGCTGC
81656	Dpyd	5'-[AminoC6]ACATGTACAGGCTGCACTCTCTGCCTCAGCGTCTGCCTATTATGGACTG
24316	Drd1a	5'-[AminoC6]CGAACTGTATGGTGCCCTTCTGTGGCTCTGAGGAGACCCAGCCATTCTGC
24318	Drd2	5'-[AminoC6]TGTTTCATCATCTGTGGCTGCCCTTCTTCATCACGCACATCCTGAATATA
29238	Drd3	5'-[AminoC6]ATTTTCAGCCGATTTGCTGTGACGTTTTTGTACCCCTGGATGTCATGATG
25432	Drd4	5'-[AminoC6]TCGTGGTGCACATCACACGGGCGCTGTGTCCGGCTTGTTCGTGTCCCA
266807	Duox1	5'-[AminoC6]ACTTCCACCGCTTCATCGCCTCCACAGCCATCATCCTTACAGTCTTACAC
79107	Duox2	5'-[AminoC6]TGCAGGCGCTGTTTGCAGACCGTGCCTACTACTATGGCTTTGCCTCGCC
361003	Dupd1	5'-[AminoC6]ATAATAAAGCTACACGGAGGACTCCAGCCAACCTTCCTTGATGTTGGTGG
114856	Dusp1	5'-[AminoC6]CGGCCACATCGTGGGCTCAGTGAACGTGCGCTTCAGCACCATCGTGCGGC
63995	Dusp10	5'-[AminoC6]TGTGACGCCATCCCAACCACTTCACATAGTTCTCGAGTCCCTGAAGAGAG
297412	Dusp11	5'-[AminoC6]CGTGGTGGTTCATCTGGAATCGTCCCAGCATGTTTCAGACCCAGAGCTCAGC
64014	Dusp12	5'-[AminoC6]GAACAGGACTGTCTTCCGTACTTACCACAGGGAATCAGGCTCAGTGTACA
361002	Dusp13	5'-[AminoC6]TGGGTGAGTGTGGCCAAGCCAGTGGCCCTCCTGGGTGCCGGTTTTCTTTTTT

360580	Dusp14	5'-[AminoC6]AGATCGTGGACGAGGCCAATGCCCGGGGAGAGGCTGTTGGAGTGCACCTGT
297682	Dusp16	5'-[AminoC6]CTGTCCAGGCCCTTCCCTAGTGCACCTTAGCGCTAAGACTGAGCCAGCTG
305477	Dusp18	5'-[AminoC6]CCCAGTTCAGTTCACAGCCCTCAATCAGTGGCCTCTCACAGATCACCA
311151	Dusp19	5'-[AminoC6]CTCATGTAATGCACTCCCTGAACCAAGAAATCAAAGCATTCTCCCGGGAT
311406	Dusp2	5'-[AminoC6]CCTACCTATACTTGGGCAGCTGCAACCCTCCTCAGATCTTCAGGGGCTG
302867	Dusp21	5'-[AminoC6]CTGGTGGCCAGGAACCTAATGCTGAGCTGACCTGTCACTGTGATGACAAC
361242	Dusp22	5'-[AminoC6]TTCTGTGCACGACACTGCCAGGCCCATGCTGGAGGGAGTTAAATACCTGT
360881	Dusp23	5'-[AminoC6]CCCCATGAACCACCTTTGGCCTAACCAGGCCCTTACACCGTGTGCAACA
306527	Dusp26	5'-[AminoC6]GTTGGGCAATGTGGTGGTGGGGGCTGCTGACCAGGAAGCAGTGGGGCTC
498267	Dusp27	5'-[AminoC6]AAACAACTGCGGGAGCTCAATGAGAAATTGATGGAGGAGAGGGAAAGAGGA
498003	Dusp3	5'-[AminoC6]GGGTGTCACTCCCAGGGTGAAGACCTCCGATCCCAGCAGGAGCAGAGCTG
60587	Dusp4	5'-[AminoC6]GAGCGCAGCCCGCGCGCCGAGAGTCTCCGGGAGGACAGCACAGTGTGCT
171109	Dusp5	5'-[AminoC6]TACTCACAGTATCCTGAGTGTGTGTGGATGCGAAGCCCATTTCAACAAGA
116663	Dusp6	5'-[AminoC6]ACTCCGATGGCAGCCCGCTGTCCAACAGCCAGCCTTCCTTCCCGGTGGAG
300980	Dusp7	5'-[AminoC6]GCTGCCCAGCAGTGCCACTGAGTCGGATGGCAGCCCTGTGCCATCCAGCC
361679	Dusp8	5'-[AminoC6]CCGAAAGGGTGTGCAGCTGCTGCTGAGTGGAGCGGGTGGAGCAACCTGGAGG
293847	Dusp9	5'-[AminoC6]TTTATTGACATGTTTGTTCAGTAAAGGGAGTAGAGAGGGCTCCTGTCTCC
497778	Dut	5'-[AminoC6]TAGCTGTTCTTCTGGGTGCTATGGAAGAGTGGCTCCACGTTCTGGCTTG
64526	Ech1	5'-[AminoC6]TGCTGATGCAGCAGCTGAGAGGTACCCGCCAGCTGTACTTCAACGTGAGC
361465	Echdc1	5'-[AminoC6]GAGGTGTATAACTTCCCTGCCGGAGGCGTTGGTATGGGGATGTACAACAC
298381	Echdc2	5'-[AminoC6]GCTGACAGGTCCCAACCAAGGAATCACTGAGATTCTGATGAACAGACCTC
140547	Echs1	5'-[AminoC6]ACATCATCACGAAAAGAAAGAAAGAAATAGCAGCGTGGGGCTGATCCAG
300447	Ecsit	5'-[AminoC6]CCAGCAATGCACGAAGACCTGTTTCAGGCCATCAGGAAACGGGGAGCAGGA
24323	Edn1	5'-[AminoC6]GGACATCATCTGGGTCAACACTCCCAGCGCGTCTCCCGTATGGACTAG
24799	Eef1a2	5'-[AminoC6]CAGAGCCAGAGCCCCACAGTGCCAGCCCGTCCCTCACTCAGGCAGAATG
24329	Egfr	5'-[AminoC6]CCAAAGTTCCGAGAGTTGATTCTCGAATTCTCCAAAATGGCCAGAGACCC
24330	Egr1	5'-[AminoC6]CCGCATGCGCAAGTACCCCAACCGGCCAGCAAGACACCCCCCATGAAC
361512	Ehd2	5'-[AminoC6]CTCGAAGATGCTGACTTCGATGGTAAACCCATGGTGTGGTGGCTGGCCA
192249	Ehd3	5'-[AminoC6]AGGGAGATGTGGAGGGGATCATCCCTGGGAACGCCCTGGTGGTGGATCCG
192204	Ehd4	5'-[AminoC6]CCTCTTCAGAGACATCCAGAGCCTGCCCCAGAAGGCTGCAGTGCCAAAC
171142	Ehhadh	5'-[AminoC6]TCGAAGACATGAACCTGAAGAAAAAGGTCTTTGCTGAGCTGTGAGCCCTG
192234	Eif2b5	5'-[AminoC6]AGCGTGGATCCCGAGGAGCTGGACAGCCGAGCAGGCTCCCTCAGCTGGA
296302	Eif2s2	5'-[AminoC6]TATGAAACCTCCACAGGTCGTCGAGTAGGAACTAAGAAAATCTTTTTG
314436	Elk1	5'-[AminoC6]GCTCCACTGAAGACTGCCACCCAGCCTGAGGTGTCTGTAACCTCGGCC
362871	Elk3	5'-[AminoC6]TCGGATGCTCTGCAGGGAAGGCTTCATGTGCCGTGGGTGAGGCTGTGAA
304786	Elk4	5'-[AminoC6]ACTAGGAATATAGAAGTGAAGTATCAAGAAGTTCAGGGTTTCATCCTTG
309918	Ell2	5'-[AminoC6]GATGCAGTGCCTGAGAGGAAAAGGTCAACGCCCATGAACCTGCAAATAC
362100	Endog	5'-[AminoC6]CGCGTACCACCGGCCACCAATGCGGACTACCGCGCAGTGGCTTTGACC
29496	Erb3	5'-[AminoC6]GGGGTGTGAACAGTTCTCCCGTCCCATCTCTCTGCACCCAATTCACGG
292673	Ercc1	5'-[AminoC6]CGTGAGCCCGCGGCAGAGGGGCAACCCCGTGTGAAGTTTGTTCGCAGTG
291703	Ercc3	5'-[AminoC6]GAGGCTACTGAACTCATCACAGAGACGTTTACGAGCAAATCTGCTATTTT
304719	Ercc4	5'-[AminoC6]GCACCTCCATGTTCTGTGAATGCTGCTGCCCCGAGTTTACCGTGTCCAGAT
301382	Ercc5	5'-[AminoC6]AGAAACAGTATCTCCTGCTCATGTGGTGGTGAAGCATCTCAGATAAGTA
306274	Ercc6	5'-[AminoC6]CGAAGTGTGGCCGATGACAGTTCAGGCAGTGGATGGAAAACGCCAAC
310071	Ercc8	5'-[AminoC6]GACTATATCTTGGCAACAGCAAGCGCTGACAGTAGAGTAAAATTATGGGA
24890	Esr1	5'-[AminoC6]TGTTGGAGATCCTGATGATTGGTCTGGTCTGGCGCTCCATGGAAACCCC
25149	Esr2	5'-[AminoC6]AGTGGTATCTCCTCCCAGCAGCAGTCACTCCGACTGGCCAACCTCCTGAT

293701	Esrra	5' - [AminoC6] AGTGATGGGGTTTTTGTAGCTGGATCCCACATAAAGCTGTCTGGAGCTGCT
299210	Esrrb	5' - [AminoC6] GCCATTGACTAAGATTGTCTCGTATCTACTGGTGGCCGAGCCGGACAAGC
360896	Esrrg	5' - [AminoC6] AAGAAATATAAAAGCATGAAGCTAGAGAAGGAAGAATTTGTCACCCTCAA
300726	Etfa	5' - [AminoC6] CAAGTGGAGGTAGTGCCAGTTCAGAAAAGGCACCAAGTTCTTCATCAGCA
292845	Etfb	5' - [AminoC6] CCACAAGGAGCCATTCCTGAAGGAATTGAGCAAGAAATCTATTTCAAAGT
295143	Etfdh	5' - [AminoC6] AAGCATCACCCAGCATCCGACCAACCCGTGAAGGTGGGAAAAGGATAGC
292710	Ethe1	5' - [AminoC6] CTGATCTCGTCTGCAGTCCGCCACGACTAGACCGGCAGGCCACCTACACA
54319	Ezr	5' - [AminoC6] ACTCTATAAGTCTAGAAACCCCTTGCCGTGTTCCAGTCCCTTAAAGAGC
79131	Fabp3	5' - [AminoC6] CCTGACTCTCACCCATGGCAATGTGGTGAAGTGGGACTTACGAGAAGG
79451	Fabp4	5' - [AminoC6] GTCGTATCCGGTCAGAGAGTACTTTTTAAAAACACCGAGATTTCCCTCAA
266610	Fadd	5' - [AminoC6] TGGGGAGAGACTGAAAAGACTGGCCCGTGAGCTGAAGGTGTCTGAGGCC
500419	Fam82b	5' - [AminoC6] AAGAGAGGCCTTTTGTCTCAGCCTTGCTTATTTGGGTTTTGAAACCTA
312641	Fancd2	5' - [AminoC6] CGCTCAGCCCTTGAGGTCTTGCGAGCCGACTGAAGCAGACGGAAAGAGGG
306879	Fars2	5' - [AminoC6] CCAGCTGCATCGCAGTTTGCTGTCCAAGGTGCTCCAGGCCGTGTCTGGA
246097	Fas	5' - [AminoC6] ACAAAGAGAGGAGAGAGCCTGCCACCTATGACGGGCACAAAATGAAAGC
83727	Fbn1	5' - [AminoC6] AAGCTTCACCTGTGAATGCCAGCGGGGATTTCTCCCTCGATCAGAGTGGTG
29580	Fdft1	5' - [AminoC6] TAGCCCTTGAAGGGCCATGTGGAAAATAACACGTGGTGAGGGAAACATGTG
29189	Fdx1	5' - [AminoC6] TGGTGAAACGCTAACGACCAAGGGGAAAGTTGGTGACTCTCTGCTAGATG
79122	Fdxr	5' - [AminoC6] TGAAGCACACACCCGGGCCACGTAGACATCTATGAGAAGCAGCTCGTC
361338	Fech	5' - [AminoC6] TCTGTAAGAACAAAATCTTACAACAGGAGTGTCACTTTATAATACGAC
81730	Fez1	5' - [AminoC6] GAAGATATCAGGCCCTGCTGCACTGAGGACCCAGAGGAAAAGCCACAAAG
84488	Fgf13	5' - [AminoC6] AATCTGAATTGGCATCTGAGACTCAGAGTAACGGCGTTCTTAAGGTTTTT
79113	Fgr	5' - [AminoC6] AGGGCATGGCCTACATGGAGCGCATGAACTATATCCACCGAGACCTGAGA
24368	Fh1	5' - [AminoC6] TTGGCAGCAAGAAGCCGTGCACCCCAATGATCACGTTAACAAAAGCCAG
25177	Fhl1	5' - [AminoC6] TTCCCACTGAGATGCCTTTGGGGCTCAGTCGGGACGCACTGTGCGGTAC
282837	Fibp	5' - [AminoC6] CAGTGGCTCTGCGAGTACGCTCCGGAATCCTGGAGCAGACGGGAGCCACC
288584	Fis1	5' - [AminoC6] CGGGCGAGGCAGCGCTGGCGGTGAACATCAGCGCGGCACGGGGCTGCA
287375	Flii	5' - [AminoC6] GAGGAAGCAGCAGCTGAGACAGAGGAGAAGCAGCCAGAGGAGGATTTTCA
314322	Fos	5' - [AminoC6] CGGCAGAAGGGGCAAAGTAGAGCAGCTATCTCCTGAAGAGGAAGAGAAAC
25446	Fosl2	5' - [AminoC6] AAGAGCCTCTGCACACCCCATCGTGGTGACCTCCACACCTGCCATCACT
79209	Frk	5' - [AminoC6] TATATTCAGAAGATAAAATGGGCAACTTAACCCCTTAGACCATTATCCT
291470	Ftmt	5' - [AminoC6] AGACTGCAGAACCAGCGAGGAGGCCGATCTGCCTCCAGGACATCAAGAA
84384	Fxc1	5' - [AminoC6] GCACCACCGAGCTCTGGACGCTGAGGAGGAGGCCCTGCCTGCACAGCTGTG
499335	Fxn	5' - [AminoC6] GCCCTGGCAGAATTCTTTGAAGACCTTGCGAGACAAGCCCTACACCCTGAA
58971	Fxyd1	5' - [AminoC6] CTGCGGATCGGGCGCCTCACTGCTGGGATCCTCCTCTTCATCTTGGGCAT
29639	Fxyd2	5' - [AminoC6] GGCCTGATCTTCGCGGGCCTTGCCCTTCGTCTGGGACTCCTCATCTCCT
363735	Gabpa	5' - [AminoC6] ACAATCTCTAGGCCTTGACTTCAGATGACAATTAGGTTCTCCCCATCTCA
499883	Gabpb1	5' - [AminoC6] CCACGCCGAGTTCATCATTTGGACCCGGAGGGTGGTGAACCTTACAGAT
24379	Gad1	5' - [AminoC6] CTGCAGGACAGATGGTACCCCACTGCAGTGTCTAGGGACCCAGGGAAA
24383	Gapdh	5' - [AminoC6] ATGGGAAGCTGGTCATCAACGGGAAACCATCACCATCTTCCAGGAGCGA
297113	Gars	5' - [AminoC6] TAACGTTGTACAGTTTGAGCCCAACAAGGGAGCCGTGGGCAAGGCGTACA
81660	Gatm	5' - [AminoC6] CTTTCCAGAGCACCCAGGCAGCTACAGTCTCCTCCAAAATCTCTGTGCA
366959	Gcat	5' - [AminoC6] CGCCTGGTGGCCACGGATGGAGCCTTCTCCATGGATGGTGTGCTCGCTCC
364975	Gcdh	5' - [AminoC6] GAGCAGCGACAGAAGTATCTGCCCGACTGGCCAAGGGTGAACCTTCTGGG
171133	Gcsh	5' - [AminoC6] GATGGTATTGGAACAGTGGGAATCAGCAACTTTGCACAGGAAGCTTTGGG
29455	Gdf15	5' - [AminoC6] CTGCAGCCCGACAGAGTGCCGGCCCCGTGCTGTGTCCCTCCAGCTACAC
29662	Gdi2	5' - [AminoC6] GTGAAATCTGAAGGAGAGATTGCTCGCTGTAAGCAGCTCATCTGTGATCC

27100	Gfer	5'-[AminoC6]GGCCCCGGCGCCGAAAGGTTTGGAGCACGGGAAGCGACCGTGCCGGGCCT
114017	Gfm1	5'-[AminoC6]GGTGCCGGCCAGTATGGGAAAAGTGATAGGGGTGCTGGAGCCCTTGGCCC
25235	Ghr	5'-[AminoC6]AGACTACACCACGGTTCACACCGTGAAGTCCCCAAGGGGCCTTATACTCA
29446	Ghrh	5'-[AminoC6]GGTGCGCGGCATGCAGACGCCATCTTCACCAGCAGCTACCGGAGAATCC
59301	Ghrl	5'-[AminoC6]CTACTCCTCAGCATGCTCTGGATGGACATGGCCATGGCAGGTTCAGCTT
24392	Gja1	5'-[AminoC6]AACATTTTTAAACAGTCATAACGTCATTTTTAGTTTAGTTTTTTTTTTT
84403	Gjb6	5'-[AminoC6]GGTGCCATGCACGTGGCCTACTACAGACATGAAACTGCCCGAAAAGTTTA
79223	Gk	5'-[AminoC6]AAACAAATAGTGCATTAATGCTTCTTCACTGGTATTCCTTGTTTTTTTTGA
289481	Gk2	5'-[AminoC6]ATGACATCCGGGGCTTTGGAAGGCGTGCCAATATCCGGATGTTTGGGGGA
309312	Gldc	5'-[AminoC6]TGGAGCGCAGGGGGAGTATGCTGGCCTGGCCACCATCCGAGCGTACTTAG
64045	Glrx1	5'-[AminoC6]TGTTTCATCAAACCCACCTGCCCTATTGCAGAAAGACTCAAGAAATCCTC
114022	Glrx2	5'-[AminoC6]CACTACTCCTGTGAACCAGATCCAAGAAACAATTTCTAATAATTGTGTGG
58815	Glrx3	5'-[AminoC6]TGACTCAGCTGCCCCCTGCATGCTCTTCATGAAGGGAACACCTCAGGAA
192268	Gls2	5'-[AminoC6]ACAAGCTGGGGAACAGCCACAGGGGCATCAGCTTCTGCCAGAAGTTGGTG
24399	Glud1	5'-[AminoC6]ATCTGATGGGAGTATATGGAATCCAGATGGTATTGACCCAAAAGAACTGG
293779	Glyat	5'-[AminoC6]AAACTCAGAAAACATCCTCTATGTGGTATCAGAGACAGTTAGGAAACT
81662	Gna11	5'-[AminoC6]CATCTTCACCGCCATGCAGGCTGTGGTGCAGCTATGGACACGCTCAAGA
81663	Gna12	5'-[AminoC6]GGACGTCCAGCGCTACCTGGTCCAGTGTCTTGACAGGAAGCGCAGGAACC
303634	Gna13	5'-[AminoC6]CCGAGAGAAGCTTCATATTCCCTGGGGAGATAACAAAAACCAGGTCCACG
309242	Gna14	5'-[AminoC6]TTTGAAGAGAAAAATCATGTACTCTCATCTAATCAGCTACTTCCCAGAGT
89788	Gna15	5'-[AminoC6]GCGCATCATTCACGGCGCCGGCTACTCTGAGGAGGACCGCAGAGCCTTCC
25686	Gnai1	5'-[AminoC6]CCGGATGCATGAAAGCATGAAGCTGTTTCGATAGCATATGTAACAACAAGT
81664	Gnai2	5'-[AminoC6]CATGCATGAGAGCATGAAGCTGTTTGATAGCATCTGCAATAATAAGTGGT
25643	Gnai3	5'-[AminoC6]TTGCTAGGAGACGTCTAAGAGTATAACAACGTGCATGCCTTTCCTTTGT
14680	Gnal	5'-[AminoC6]TACCCAGTGTCTGCCCTTCTGGTCTGCATGGCCAGGGCTTAAAGCAG
50664	Gnao1	5'-[AminoC6]AAGATCATCCATGAAGATGGCTTCTCTGGAGAAGACGTAAAGCAGTACAA
81666	Gnaq	5'-[AminoC6]GACAAAATCATCTACTCGCACTTCACGTGTGCCACAGACACGGAGAACAT
24896	Gnas	5'-[AminoC6]TCCAGGTGGACAAAGTCAACTTCCACATGTTTCGATGTGGGCGGCCAGCGC
363143	Gnat1	5'-[AminoC6]GGACGACGAAGTGAACCGAATGCACGAGAGCCTGCACCTGTTCAACAGCA
365901	Gnat2	5'-[AminoC6]AGTGCTGAGGACAAAGAACTTGCCAAGAGGTCCAGGGAGCTGGAAAAGAA
286924	Gnat3	5'-[AminoC6]TAAGGAAATCTATTCTCACATGACCTGCGCTACTGACACACAAAACGTCA
25740	Gnaz	5'-[AminoC6]GGCGTGACGGCCATCATCTTCTGTGTGGAGCTCAGTGGCTATGACCTGAA
24400	Gnb1	5'-[AminoC6]CTGGCAAAGATTTATGCCATGCACTGGGGCACAGACTCAAGGCTCCTTGT
81667	Gnb2	5'-[AminoC6]GGCTGTGGTCAGCGCCTCCCAGGACGGAAAGCTCATATTTGGGACAGC
83427	Gnb211	5'-[AminoC6]GTTATGGAATACTCTGGGTGTCTGCAAGTACACTGTCCAGGATGAGAGTC
60449	Gnb3	5'-[AminoC6]GTCAAGGTCAGCCGGAACTCTCGGCTCACACAGGTTATCTCTCTGTTG
294962	Gnb4	5'-[AminoC6]GAGGGGAACGTGAGAGTGAGCCGGGAGCTGCCAGGGCACACAGGCTACTT
83579	Gnb5	5'-[AminoC6]CTTCACTACTAACAAGGAGCACGCGGTCACCATGCCTTGACCTGGGTGA
114119	Gng10	5'-[AminoC6]AGGACGCCCTGCTGCTTGGTGTTCGGCTGGAAGCAACCCCTTCCGGGAG
64199	Gng11	5'-[AminoC6]ATCCCTGCAGCAGTGTCTTGGGAAATGGGACAAGTATGTGAATGGGAAA
114120	Gng12	5'-[AminoC6]AGACCTGATGTCTACTGTGAGGAGCATGCCCGGAGCGACCTCTGCTGA
685451	Gng13	5'-[AminoC6]GTGCCCCAGATGAAGAAGGAGGTGGAGAGCCTCAAGTACCAACTGGCCTT
114117	Gng3	5'-[AminoC6]AGGCAGCAGCAGACCTGATGACTTACTGTGATGCCACGCTTGTGAGGAT
79218	Gng5	5'-[AminoC6]TAGCTCCGTGAGAACGAGGCAGAAAGGGATACAGGTGCCTGACACTGCCA
58979	Gng7	5'-[AminoC6]AGTTACTCCCTGCAGCTCTGGTGGAAATCTGCTTCCCAAACCTGTGCCA
245986	Gng8	5'-[AminoC6]GAACATCGATCGCATGAAGGTGTTCGAGCGGCAGCGGAGCTATGGCTT
680149	Gngt1	5'-[AminoC6]TTGTTCTTGAGGAGTGGTTATCACAGGCAATTTGAAAGAAAACCCAAA

690825	Gngt2	5'-[AminoC6]AGGGCCGAGTAGGAAGTCCTGTGACCAGTACTTTGTGCCTAATGAAGATT
24401	Got1	5'-[AminoC6]ATCGCCGCCGTCATGAAGCGCCGTTTTCTGTTCGCCCTTCTTTGACTCAGC
25721	Got2	5'-[AminoC6]CACAGCTGAAGATCCTGATCCGCCCTTGTATTCCAACCCGCCTCTCAAT
29653	Gpam	5'-[AminoC6]CTGGTCATCCCTGTGGGCATCTCGTATGATCGGATAATCGAAGGTCACATA
60666	Gpd1	5'-[AminoC6]TGAAGTGATTGGGGAGAGCCTTGGCATCCCTATGAGCGTGTGATGGGGG
363159	Gpd1l	5'-[AminoC6]AAGGGTATAGATGAGGGCCCCGACGGGCTGAAGCTCATCTCCGACATCAT
25062	Gpd2	5'-[AminoC6]CTTCGGAAAGACGACATTAACCTTCATCTTAAATGAAGTGCGGAACCTACCTG
292804	Gpi	5'-[AminoC6]TGGAGTGGTGACTGATGGTGTGAAGCACTCCATGAACCCCTTCTGTGAGA
171407	Gprasp1	5'-[AminoC6]CTGAAAGCATAGTGGGACCCCTGGTCTGGGAAGGAGATGAAGCTAGCTTT
81670	Gpt	5'-[AminoC6]GAAGGACTCTTCTTGATGGCTGATGAGGTATACCAGGACAACGTGTATGC
24404	GPX1	5'-[AminoC6]GAGATTCTGAATTCCTCAAGTATGTCCGACCCGGTGGTGGGTTTCGAGCC
29328	GPX4	5'-[AminoC6]CGATACGCCGAGTGTGGTTTACGAATCTGGCCTTCCCTTGCAACCAGTT
298376	Gpx7	5'-[AminoC6]CCTACAGTGTCTCTTCCCCATGTTTAGCAAGATCGCAGTCACTGGCACT
498416	Grb10	5'-[AminoC6]TTTGATTTGATCACTTTTTTGCCTCCTTCTTCGTTGTCAATGTTGTACT
58844	Grb14	5'-[AminoC6]TCAGCACTAGTAATGTTTACATGTCCTGGCAGGCAAAAAAAGCATGGA
81504	Grb2	5'-[AminoC6]TTTCATAATGCCAAAACCTAACCTATTGAATGAATTACAGTTTTTATTAC
680021	Grhpr	5'-[AminoC6]GCAGCAGGACTGGATGTGACCACCCAGAACCCTGCCTCCAAGCCACCC
50592	Gria1	5'-[AminoC6]TCGTCACTACTATCCTCGAAGATCCTTACGTGATGCTTAAAAAGAATGCC
29627	Gria2	5'-[AminoC6]AGTATTTAAGGTTGTGTAGGAGCAGTAATCAATATAGATAAAGTCAGAAA
29628	Gria3	5'-[AminoC6]TGTCGGAGGTCTGGCCCTGGCCATGATGGTGGCTTTGATAGAATTCTGTT
29629	Gria4	5'-[AminoC6]AGTGAGGCAGGCGTCTTAGACAAGCTGAAAAACAAATGGTGGTACGATAA
79219	Grid1	5'-[AminoC6]CGTGGTTGAGTATGCAGCCCTGACAGATGACGACTGCTCAGTACTGTCA
79220	Grid2	5'-[AminoC6]GGCACGTCCATATGAGCAGCAGACAGCTCGGCCTATATCCTAGGACTGCC
288484	Grid2ip	5'-[AminoC6]TCCTTTGTTCAGAAAAGATGAATGAGACATAGTAGTTGTAGCGTGAAGGAT
29559	Grik1	5'-[AminoC6]GAGCTGACCTGGCAGTGGCCCTCTCACCATCACATACGTACGGGAGAAA
54257	Grik2	5'-[AminoC6]TCGTGAACTAATCGATCATAAAGCTGACCTTGAGTTGCTCCACTGGCTA
298521	Grik3	5'-[AminoC6]CCTGTCCCAGACATCTGGATGTACGTGCTACTCGCCTACCTGGGTGTCA
24406	Grik4	5'-[AminoC6]TTCCAAAATTCCCCTACCAGACCTACCAGCGCATGTGGAATTACATGTA
24407	Grik5	5'-[AminoC6]CTACCTGCGCATGGTAGAGTATGACGGGCTGACTGGGCGGGTTGAGTTCA
24408	Grin1	5'-[AminoC6]GTGGAACGGAATGATGGGCGAGCTACTCAGTGGCCAAGCGGACATGATTG
24409	Grin2a	5'-[AminoC6]CACAGGCTATGGAATTGCGCTGCAGAAGGGCTCACCTGGAAGAGGCAGA
24410	Grin2b	5'-[AminoC6]GCGAGGTAGAGAGAACATTTGGTAACCTGCAGCTGAAGGACAGCAATGTG
24411	Grin2c	5'-[AminoC6]GGGTCTTCTACATGCTGTTGGTGGCCATGGGACTGGCCCTTCTGGTCTTT
24412	Grin2d	5'-[AminoC6]CACGGAAAAGAACATCCGGAGCAACTACCCTGACATGCACAGCTACATGG
191573	Grin3a	5'-[AminoC6]GCACAGACTGCTGTTACCACGCATCAAAAAACAAATCCAAGCTGCAGTACT
170796	Grin3b	5'-[AminoC6]CGCCGCGGGCCGCAACCGTGGCACTGTCTTCTTACTCCTCCGCGCTC
266668	Grina	5'-[AminoC6]TTGTCCGGGAGGTGAAGGGCTTTGTCCGGGCAATGTCTGGACCTACTAT
192147	Grin1a	5'-[AminoC6]TGTTGAGCTTACATGTCTCATTTGAACCTCCTAACAGTATCAAGACAGT
84016	Grip1	5'-[AminoC6]CCCAACTCCCCTGGAGCTTCACAAGGTGACCTTATACAAAGACTCTGGCA
171571	Grip2	5'-[AminoC6]TTGGTCTTTCAATTATTTACGGGTGATTTCTGAACCTCAGAGCAGAAGT
306400	Grif1	5'-[AminoC6]AGTGTCTCCCTTCTCGGGGTCTGTGTCCGGTGTGTGGCCCTGGAATCAA
24414	Grm1	5'-[AminoC6]GTAGCAAATACTATCAACCAGTCCGACTTCTAAGATTCAAGTTTCAAGTTT
24415	Grm2	5'-[AminoC6]GTGCCCGGAGAACTTCAACGAAGCCAAGTTCATCGGCTTACCATGTACA
24416	Grm3	5'-[AminoC6]TGCATTGCTCGCATCTTCGATGGGGTCAAGAACGGCGCTCAGAGGCCGAA
24417	Grm4	5'-[AminoC6]GTGCCAAGCGCAAGCGCAGTCTCAAAGCCGTGGTCAACCGCCGCCACCAT
24418	Grm5	5'-[AminoC6]TAAGTCCAACGGAAAATCTGTGACTTGGGCCAGAAATGAGAAGAGTACC
24419	Grm6	5'-[AminoC6]ACATCATTTGCCCTCCGACCCACTGTAAGAAATACTGCTTCCAGGAAT

81672	Grm7	5'-[AminoC6] TGCTGGACCTGTGAGCCCTGTGATGGATACCAGTATCAGTTTGTATGAGAT
60590	Grm8	5'-[AminoC6] GGGCCGTGAATTTTAATGGCAGTGTGTTACACCTGTCACTTTTAATGAA
171101	Grp	5'-[AminoC6] AAGGGGAAGGAAGGAACTGCCAGCTGAAGGGACCATGACAAGGGCGGCTT
79563	Grpel1	5'-[AminoC6] GGGCTCGTGATGACTGAAGTCCAGATTGAGAAGGTGTTACAAAAACACGG
688777	Grpel2	5'-[AminoC6] TGAGTTTTTGGGAAAGGAAATGGTGGGGATTGGTTTTGACATTTAGGTA
84027	Gsk3b	5'-[AminoC6] GACACTAAAGTCATTTGAAATGGGTCAATTTGGTGTGGTATATCAAGCCAA
296654	Gsn	5'-[AminoC6] TGGGAAAATCTTTGTTTGGAAAGGCAAGCAGGCCAACATGGATGAGCGGA
116686	Gsr	5'-[AminoC6] AGAGTAAATTC AATTGGCATGTCATCAAGGAGAAGCGGGATGCTTACGTG
25458	GSS	5'-[AminoC6] GGATCGCCAAAGCCTGGGAGCTCTATGGCTCAGCCAATGCCGTGGTGCTA
297029	Gstk1	5'-[AminoC6] CCCCCTACTCCTGGCTGGGCTTTGAGGTCCATGCAGATACCAACACCTC
681913	Gstz1	5'-[AminoC6] TCCAAGCAGGCCAGAAATGAATGAATTGTAGTAGAGGATTTGAACTTTA
290633	Gtpbp3	5'-[AminoC6] GCCTCCGACCTGGCTTCTCTCTTAGCTGCAGCTTCTGGACACTGTGGT
301233	Guca1a	5'-[AminoC6] CTCTCGTGAGCCTGGACCATGGGCAACGTCGTGGAGGGCAAGTCGGTGGA
316218	Guca1b	5'-[AminoC6] AATGAGGAGGCCACCCAGTATGTGGAGGCATGTTCCGAGCCTTCGACAA
25656	Guca2a	5'-[AminoC6] CAGTGAACAACCTTAAGCACCTCCGGGAAGTACAGGAGCCCACACTGATG
64055	Guca2b	5'-[AminoC6] TGCTGTGGTGCTGCAGAGTCCCAGGGTGTCTACATCAAGTACCATGGC
66012	Gucy1a2	5'-[AminoC6] TAGAAAAAACTCACCAGGCCCTGGAAGAAGAGAAAAAGAAGACAGTGGAT
497757	Gucy1a3	5'-[AminoC6] TCAAGAAGAGGTTGGAAAGCTGAAGGCAACCTTGGAGCATGCCACCAA
25206	Gucy1b2	5'-[AminoC6] AGAGCAAGATGCATCTTTCTGATATCGCTCCGCACGACACGACCAGGGAT
25202	Gucy1b3	5'-[AminoC6] TGAATGGCAGCCTTTGTGGGGCAAAAAGAACTGTCAGCTGGGCTCTGGTG
25711	Gucy2c	5'-[AminoC6] GTGGACAGTCGCATGGTGGTGAAGATCACTGATTTTGGGTGCAATTCCAT
113911	Gucy2d	5'-[AminoC6] TGACCAAGTCACCATCTATTTCAAGTACATCGTGGGCTTTACCACCATCT
79222	Gucy2e	5'-[AminoC6] CTTCCGCCTTCCATGGACCTCACCTTTGACCTGTTCAAGGGCATCAACAA
116556	Gucy2f	5'-[AminoC6] ATGATGTCTATAAGGTAGAGACCATTGGAGATGCCTATATGGTGGCCTCA
245708	Gucy2g	5'-[AminoC6] CGTGTATGACATAGTCAACGGCATGCTGTTCTCCACGGGAGCCACTGA
171528	Gzmb	5'-[AminoC6] TTGGGGGCCACAACATCAAAGAACAGGAGAAGATGCAACAAATCATCCC
266704	Gzmf	5'-[AminoC6] TGGCACATGTGAAATTTGTGAAAGTTGATGGGAATAGAAGTGTCTGCGGA
113965	Hadh	5'-[AminoC6] GAAGAGAGCCTTAAGAGAATGGCAAAGAAGAAGTTCACAGAAAAACCTAA
171155	Hadhb	5'-[AminoC6] ATCTCAATAAAGCCAAGACTCTGGCCCAGCGCCTGTCTTACTCACTAAA
24439	Hagh	5'-[AminoC6] AAAAAGCACCGTGTGAAGCTGACCACAGTGTCTCACCCTCACCACCCTG
291202	Hax1	5'-[AminoC6] AGACACTTCGTGACTCAATGCTTAAGTACCAGATAGTCACCAACCCAGG
502359	Hbe2	5'-[AminoC6] CAGAGATTCTTTGACAAGTTTGGAAACCTCTCTTCTGCTCCGCCCATCAT
317444	Hccs	5'-[AminoC6] CAGTTCATATCCTGGATGTGCGTCCGGCCTTTGACTCATCTCAGCAGT
288077	Hcls1	5'-[AminoC6] ACTGCTCGAGGCAGGGGTGGGGCTGAGGGGTGGGGTTGAGGGGTGGGGTT
25723	Hcrt	5'-[AminoC6] ACCATCTCTCCGGATTGCCTCTCCCTGAGCTCCAGACACCATGAACCTTC
84578	Hdac3	5'-[AminoC6] TCTGCTGGTAGAAGAGGCCATTAGTGAGGAACTTCCCTATAGTGAATACT
24443	Hdc	5'-[AminoC6] TCTCACAGAAAGTGTGTTAAAGGAAATAGCCAAAACCTGGCCAGGTCTTCC
63938	Hibadh	5'-[AminoC6] TTTAAAGAGGCTGGTGAACAGGTAGCGTCTCCCCAGCAGATGTAGCGGA
690660	Hint1	5'-[AminoC6] CCAGATTTCTGTGGCAGATGATGATGATGAAAGTCTTCTAGGACATTTAA
313491	Hint2	5'-[AminoC6] TTCTCCCGGATTTTGGACCGGAGCCTCCAGCTGACATTTCTATATGAAGA
306969	Hist1h2bf	5'-[AminoC6] AGTGCATCCGGACACGGGCATCTCTTCCAAGGCCATGGGCATAATGAACT
25059	HK2	5'-[AminoC6] CATCTGGCTGCGAGGGTGAGGATGTGGTCACTTGCTGAAGGAAGCGATT
79238	Hmgcl	5'-[AminoC6] CATCTGTCAAGCCCTGAACAGAAAAACAGTTCCAAAGTGGCACAGGCCA
367112	Hmgcll1	5'-[AminoC6] AAGCACGACTTGAATGAGTTTATGGTTTGGAGAAAGAGAAGAGCCATTCCC
24450	Hmgcs2	5'-[AminoC6] CGTGCAATATATGATCTTCCACACACCCTTTTGCAAGATGGTCCAGAAAT
29578	Hnrnpa1	5'-[AminoC6] AGCAGTAGCTATGGCAGTGGCAGGAGGTTCTAATTACAGCCAGGAAACAA
290046	Hnrnpc	5'-[AminoC6] ATGTTACCAACAAGACAGATCCTCGATCCATGAATTCCCGTGTATTCAAT

117271	Hrk	5'-[AminoC6] TTGTTTTCTGAGACACGGAGCCAGGCTGGCCTTGAACCTCTCTATACAGCA
65151	Hrsp12	5'-[AminoC6] GATTAGCATGTCGTCAATAATCAGAAAAGTGATCAGCACTTCAAAGCCC
293451	Hs3st2	5'-[AminoC6] GAGACACCAAGCTGATAGTGGTGGTGCGGAACCCGGTGACCCGAGCCATC
25116	Hsd11b1	5'-[AminoC6] CCTCCTCCCCGCTCTGGTGCCTGCCTGGGTTACTACTATTCTACAAATG
63864	Hsd17b10	5'-[AminoC6] TAACTCAGAGGGTGAGACCGAAGCCAAGAAGTTAGGAGGAACTGCATAT
286964	Hsd17b6	5'-[AminoC6] ATTCCCTCATAATGTGGTTTTACCTGGTGA CTCTTGTGGGCCTTACTAC
360348	Hsd3b1	5'-[AminoC6] TGCTCAGATCACCTCCTCTCTCTTCTTGGGCAGAGCCAGTGTGGCCTCCA
29632	Hsd3b6	5'-[AminoC6] CCCAGTGCCTGAGGAGAGCGTGCCAGGGCATCTCTGTTGTCATCCACACT
301252	Hsp90ab1	5'-[AminoC6] TGT CAGAGTATGTGTCTCGCATGAAGGAGACACAGAAGTCCATCTACTAT
29734	Hspa13	5'-[AminoC6] GGAGGAATGTTTCTAACACGCGCAATGTCTGGAACAACAAACTTGGAGG
24472	Hspa1a	5'-[AminoC6] GAGGGCCAAGAGGACGCTGTCTGTCAGCACCCAGGCCAGCCTGGAGATCG
24963	Hspa1l	5'-[AminoC6] GGAGCTGCAGTCCAGGCAGCTATTTTAATGGGCGACAAATCTGAAAAGT
60460	Hspa2	5'-[AminoC6] GTGACTCCCTTGTCTGCTTGGCATTGAAACAGCTGGCGGTGTCTGACCCC
25617	HSPA5	5'-[AminoC6] GTATTGAAACTGTGGGAGGTGTCATGACAAA ACTGATTCCGAGGAACACT
24468	Hspa8	5'-[AminoC6] TCCTCTTCCCTTGGGATTGAAACTGCTGGTGGAGTCATGACTGTCCTCA
63868	Hspd1	5'-[AminoC6] ACACTGGTTTTGAACAGGCTAAAAGTTGGTCTTCAGGTTGTAGCAGTCAA
24473	Htr1a	5'-[AminoC6] TCTATATCCCGCTGTTGCTCATGCTGGTTCTCTACGGGCGCATCTTCAGA
25075	Htr1b	5'-[AminoC6] GCCCTGGAAAGTCTGCTGGTTGCTTTGTTAGCGCTCATCACCTGGCCA
25323	Htr1d	5'-[AminoC6] CTGATAGCATCTTAGAACGCAAGAGGATCTCTGCAGCCCAGAAAAGGAAA
60448	Htr1f	5'-[AminoC6] ACTCGGAAGCTGCACCACCCAGCCA ACTATTTAATCTGTTCCCTTGGCAGT
29595	Htr2a	5'-[AminoC6] ATTGCTGGAAATATACTGGTCATCATGGCAGTGTCCCTAGAAAAAAGCT
29581	Htr2b	5'-[AminoC6] ACAAGGATAAAATCTACCTAACTCAACTGATGAGACTGATGAGAAGA
25187	Htr2c	5'-[AminoC6] GTGTTCTTAACACACAGCATAGATAAAATGAAACAGTCTGCCACGGGGGCA
79246	Htr3a	5'-[AminoC6] TCGATGTGCAGAACTGCTCTCTGACCTTACCAGCTGGCTGCATACCATC
58963	Htr3b	5'-[AminoC6] CTCCGCATGCAGTTTGAGACATACGCTTTCCCTTTGATATCCAGA ACT
25324	Htr4	5'-[AminoC6] TGCTGGCCTATTACCGTATCTATGTCAC TGCTAAGGAGCATGCCAGCAG
25689	Htr5a	5'-[AminoC6] GACACGTGGAGGGAACAGAAGGAGCAAAGGCAGCCCTCATGGTGGGCAT
79247	Htr5b	5'-[AminoC6] GCCGTCTCATTTCACCAGAGACCTGGGGGCTTCTCCCGCCGCCACAC
64354	Htr6	5'-[AminoC6] CCCTGGCCAGTGCCGCCTATTGGCCAGCCTGCCTTTTGTCTCGTGGCGT
65032	Htr7	5'-[AminoC6] TCGCAGGCAACTGCCTGGTGGTGATCTCGGTGTGCTTCGTCAAGAAGCTC
297376	Htra2	5'-[AminoC6] GTGAGGCTACCTAGCGGAGACTTATGAGGCCATGGTCACAGCTGTGGA
361596	ldh2	5'-[AminoC6] TCTTGAACAAGGATCTGATGACCCAAAATGGAATAAGCTATGTCTCAAT
114096	ldh3a	5'-[AminoC6] GTTACGGGACAGCCCCGGACATTGCAGGCAAGGACATGGCCAACCCAC
94173	ldh3b	5'-[AminoC6] GCCACCAAAAAGGGCGGAGCAAGGTACAGCTGTCCATAAAGCCAACAT
25179	IDH3G	5'-[AminoC6] CATGGCCATCCGCCGAACCGTGTGGCTCTAAAGGGCAACATCGAAACAA
25712	lfng	5'-[AminoC6] CACACTCATTGAAAGCCTAGAAAGTCTGAAGA ACTATTTTAACTCAAGTA
25718	lgf1r	5'-[AminoC6] GAACTGCATGGTAGCTGAAGATTTACAGTCAAAATGGAGATTTTGGTA
24483	IGF2	5'-[AminoC6] GGGAGCAAGTGGCTGCCTTCTGAGCACTGGGGGAGGTCTCCCCGTGCC
25663	Il1r1	5'-[AminoC6] CTTGACGATGGAACTTCTTTGGATTCAAGAATAAACTGATGGTGATGAA
24498	Il6	5'-[AminoC6] CTGAAACCTAGTTCATATCTTCAAACAAGAGATAAAAGACTCATATAAA
691145	Immp11	5'-[AminoC6] ATGGAACCTACAATTCAAATTCAGATATTGTCTTTGAGAAAATCTTAG
312444	Immt	5'-[AminoC6] GACAATCTGAGATTGCAGGTGAGAAGAAGTCAGCCCAGTGGCGAACAGT
362329	Impdh1	5'-[AminoC6] AGTGAAGATCGCACAGGGTGTCTCGGGCTCCATCCAGGATAAAGGCTCCA
361057	Ints6	5'-[AminoC6] CATGTGTCATTAAGCAGAGTTGGGTACAACAGCTGGTATAACAGGTGGT
314870	Irak3	5'-[AminoC6] AAAGGCAGTGAATTCACCAGAAGATAAAGCACATATCGCTAAAGGCACCT
500709	Itpk1	5'-[AminoC6] ACAGTACTGCAAGGCCAGAGCACAGGAGGAGCTGCCACAGAGGAAGTGGC
81677	Itпка	5'-[AminoC6] GATGGGTGTGCAACTTACCTGGAAGAAGAGCTGACCAAAGCCCAGAAAC

25262	Itpr1	5' - [AminoC6] CAAATGAGACGGAGGGACTGTACTCAACCCCTTTTTAAATTATGTGTCAGCG
81678	Itpr2	5' - [AminoC6] TCAAACACACCCCATGAGAACCATCACATGCCACCGCACTGACACCATGG
25679	Itpr3	5' - [AminoC6] GCGACATCCTCCGCAAGCCCTCCAAAGACGAGTCGCTCTTCCCAGCCAGG
499370	Itprp	5' - [AminoC6] TACCGAGTTGGAGAGAGTGCAAGCACTGGTTTGAATGCAAGCCTTTCCAT
84598	Jak1	5' - [AminoC6] AGAAAAGCAGCCAATAACAGAGGTGGATCCCACACTATTTTGAAAAGCGTT
24516	Jun	5' - [AminoC6] TCATTTCAGTATTAAGGGGGTGGGTGGGGGCTTACAAACTGCAATAGAGA
24518	Jund	5' - [AminoC6] GGAAGAAGAAAAAATCCTCCCCCTTATCCCCCGCCTCTCTCCTC
313385	Kank4	5' - [AminoC6] GAGGACACCAGTGGGGAAGACAGCTCCCCTGAGGACTTGTCTGACAGTGA
292028	Kars	5' - [AminoC6] AGGCAGTTACAAGATCACCTATCACCCAGATGGGCCAGAAGGCCAAGCCT
246325	Kcnh8	5' - [AminoC6] AAATCAGGCCAGAGCCAGGATTTCCCTTCCCTTGGAGAATCAGAGATT
83731	Kcnma1	5' - [AminoC6] GATGCAGTTTGACCACAACGCTGGCCAATCCCAGGCCAGTCTGTCTCATT
65206	Kcnn4	5' - [AminoC6] CGTCGTACCTGGCACCCCTATGGGGCAAGATTGTCTGCTTGTGCACCGGAG
117548	Kif1b	5' - [AminoC6] TCCACATGCCCTCCCTGGTGGACTCCAGGAGCAGCTCTATGGATCAGAA
117550	Kif5b	5' - [AminoC6] TAAAAGACCTTGCAGAAATAGGAATTGCTGTGGGAAATAATGATGTAAAG
171041	Klc1	5' - [AminoC6] AGGAAGCTGCCCTGAGGTCACGTAAGCAGGGTCTTGACAATGTTCAAAA
305078	Lamb3	5' - [AminoC6] TGCTCAGGAGGGCTTTGAGAGACTTAAGCAAAGGTATACAGAGTTGAAAG
363172	Lars2	5' - [AminoC6] ACAGGTCTACTCTGTTTGTGCAAAAACGAAAGAGAGGTTAGAGGTGAC
170496	Lcn2	5' - [AminoC6] GTGGCTGACTGGGATGTGCAGTGGCCTGATGGTTCAGGTCCCACCTGTCT
498587	Ldb3	5' - [AminoC6] TCCCCATTGCCAGTGATCCCCACAAAAGGTGGTAGCCAATTCTCCAGC
24533	Ldha	5' - [AminoC6] CGGCTTCCCCAAAAACAGAGTTATTGGAAGTGGTTGCAATCTGGATTCCG
24534	Ldhb	5' - [AminoC6] GAAGACAAGCTCAAAGGAGAAATGATGGATCTGCAGCACGGGAGCTTATT
680066	Lemd3	5' - [AminoC6] AGAAACGTTAGCTCCTGTTCCATGTGCAGTGTAAGCAGCATGCATTGCT
25608	Lep	5' - [AminoC6] TGTCTATGTTCAAGCTGTGCCTATCCACAAAGTCCAGGATGACACCAAA
305457	Letm1	5' - [AminoC6] GACAGGGGAGAGACCAGCAATGAAGAAATCATGCGTTTTTCCAATTAT
83781	Lgals3	5' - [AminoC6] TCCACTTTAACCCCGCTTCAATGAGAACAACAGAAGAGTCATCGTGTGC
305348	Lias	5' - [AminoC6] GACAATACGGCCAGAGCAATCGCAGAGTGGGGTCTGGACTATGTTGTGCT
316342	Lipt1	5' - [AminoC6] CTCATTAACTTTCAGACAAGAACTATGTCTTTTCTTAAAGCTAACTC
170946	Lkap	5' - [AminoC6] GGGAGTTTTATTTTTAAACCAAGAAGAAAAACAGAAATTCCAATACCAG
60374	Lmna	5' - [AminoC6] AACGCCACTGGAGAAGAAGTGGCCATGCACAAGCTGGTGCCTCACTGAC
299625	Lmnb2	5' - [AminoC6] GGCCAGACGGTCACGGTGTGGGCAGCTGGCGCAGGGGCTACACACAGCCC
681754	LOC681754	5' - [AminoC6] TGCTCCGGGACAGTCTTTAGGAGTCAGGATGGCCGAAGACATCAAGACTA
687842	LOC687842	5' - [AminoC6] ACGAAATCCAGAGATATATTAACCTCATCCCCAACATGTGCCCATGCA
170916	Lonp1	5' - [AminoC6] GGGCCATGCCTGGGAAGATTATCCAGTGTCTGAAGAAAACCAAGACAGAG
502020	Lrch1	5' - [AminoC6] AATCCACATATTTAAATACCTGAACATACAAGCTTGTAAGATTGCTCCAG
360779	Lrch4	5' - [AminoC6] CCGGGACGTCGTTATGATGGTGGCCTGGACTCAGGCTTCCATAGTGTGA
313867	Lrpprc	5' - [AminoC6] TTGTGGTTTGGAGATGACAGGTCTTCCCTGAGTTCATCCTCACCCCTCAGC
679668	Lrrtm1	5' - [AminoC6] AAGTGTTCAGCAGCCAGCCTCAGGCAGCTCAGACAGTGTCTTGTACGCA
292734	Ltbp4	5' - [AminoC6] GTCAGCAGGGGCTTCACACCCATGACGGTTCAGACCTTCTGAGAGGAGC
289357	Lyplal1	5' - [AminoC6] GTGAAGTGTAACATCTCCCTAAGGGTGGAGAGCTGGATGACCCGCTGTC
85419	Lyst	5' - [AminoC6] GAACCATGGAGGGCAGCGGCTCACACAGAGGTCCATGCGCACCAGCTG
25211	Lyz2	5' - [AminoC6] GGATACCTGCAGCGCTCTGCTGCAGGATGACATCACTCAAGCCATACAA
246233	Macrod1	5' - [AminoC6] AAAATCTCCCTGTTCCGTGGGGACATCACCAAGCTGGAGGTGGATGCCAT
29253	Maoa	5' - [AminoC6] AGAGAGGAACCTGCCTTCCGTGCCTGGTCTGCTCAAGATCACTGGTGT
25750	Maob	5' - [AminoC6] CCCTTGCTGAAGAGTGGGACTACATGACAATGAAAGAGTTGCTAGATAAG
170851	Map2k1	5' - [AminoC6] TGAACTACAGTGAACCCCTGGTGACCTGGGTGGTCTTCTTACTGATGTTT
362045	Map2k1ip1	5' - [AminoC6] GTGCCTGTTATTTAAAGTGGCTAACGACAGTGTCCAGAACATGCCCTGAG
58960	Map2k2	5' - [AminoC6] TGAGGGCCCGTCCCCACCAGCGAGGGCGCCTCCGAGGCACACCTGGTGG

303200	Map2k3	5' - [AminoC6] TCTACCGGAAGGTGCTAGAGAAGAACATGAAAATTCGGAAGACATTCTG
287398	Map2k4	5' - [AminoC6] GAGAGACTGAGAACCCACAGCATTGAGTCATCAGGAAAACCTGAAGATCTC
29568	Map2k5	5' - [AminoC6] AAATGGCCAGCTAATAGAGCCGCTGCAGATCTTTCCAAGAGCCTGCAAGC
114495	Map2k6	5' - [AminoC6] TGCTCATTAACACGCTGGGCCAAGTGAAGATGTGTGACTTTGGAATCAGC
363855	Map2k7	5' - [AminoC6] TGACCAAAGCTGCAGGAGATCATGAAGCAGACAGGGTACCTGACTATCG
116667	Map3k1	5' - [AminoC6] AAATGGAGAGGATATCATCATCATCCAGCAGGATACACCAGAAAACCTAC
308463	Map3k10	5' - [AminoC6] ACGTGAAGTGCACCTGCTCATGAGCCAGCTGAGCCAGGAGAAGCCCAGGG
309168	Map3k11	5' - [AminoC6] GCCCTGAGCCAGAGGAGCCACGGCGGTCTGGGCCACAGAACGGGGCAAT
25579	Map3k12	5' - [AminoC6] CTGGTTGACTGGTCCATGGGCATCGCTGGAGGCATGAATTACCTACACCT
360640	Map3k14	5' - [AminoC6] CCTGGCCCACCTGCCTGCTCACCTAGCCAAGCGTCTCAGCCTTCCAATCC
171492	Map3k2	5' - [AminoC6] TACTTTGACTGTACAGACATCAGCCCACCCAGCCGTTACCTCGAGCTC
303604	Map3k3	5' - [AminoC6] TATCTCAGATCCATATTTGATGGTTTTTATATATATCAATTCAGACTGT
308106	Map3k4	5' - [AminoC6] CCGACTGTTTGAAGAGAGGAGGTATCGAGAGATGAGGAGGAAGAATATCA
313022	Map3k6	5' - [AminoC6] GGGCGGCTACCTCAAGATCTTCATGGAGGAAGTGCCTGGAGGCAGCCTGT
313121	Map3k7	5' - [AminoC6] CGAACAGCATTGTAAAATGGCACAGGAATATATGAAAAGTTCAAACCGAAA
315139	Map3k7ip1	5' - [AminoC6] GAGCGTGGACCATGGCGAGCAGAGTGTGATGACGGCACCTTAGTCTAGCC
308267	Map3k7ip2	5' - [AminoC6] AGGTGTGGGAGACAGCGGTGTGCTGTGTCGAGTGTGAGCCACAGAGCT
116596	Map3k8	5' - [AminoC6] CTCTGGCTGGCTACTTCAATATGTTTCGTGGTCCACCAACCTTGAATAT
500690	Map3k9	5' - [AminoC6] TCTGAATGCAACTCTACTCGCTCCCTACTGCGCTCTGACAGTGTGAGAT
292763	Map4k1	5' - [AminoC6] TCCTTCCACAACCTTTGTCAAAGTCAACCTCACTAAGAAGTCCAGAAAACG
293694	Map4k2	5' - [AminoC6] CCTCCAGGCCTGTTTGAGCAGCGGAGACTGCAGCACCAGGCACCCCTCT
170920	Map4k3	5' - [AminoC6] CCGGATCGAATACTGCCCAGGAAAATTTGCTGTATCAGCAAAGATTCCTGA
301363	Map4k4	5' - [AminoC6] AAATAAACCAAGGCTGCATTGCAGCTGGTGCTGTTGAGACTTACCATCG
503027	Map4k5	5' - [AminoC6] TGATACAAAAGGATGCCACAAATGCTGTATAGTTAGAAAACCTTACACGG
116590	Mapk1	5' - [AminoC6] AGATCTGTGACTTTGGCCTTGCCCGTGTGCGAGATCCAGACCATGATCAT
25272	Mapk10	5' - [AminoC6] CTACAAGGAGAACGTGGACATATGGTCTGTGGGCTGCATCATGGGAGAAA
689314	Mapk11	5' - [AminoC6] AGAAGGACCTCAGCAGTGTCTTCCATGGGGCAACCTCTGGCTGTAGAC
60352	Mapk12	5' - [AminoC6] GGACATTTGGTCTGTTGGCTGCATCATGGCAGAGATGATTACTGGAAAGA
29513	Mapk13	5' - [AminoC6] GGAGGAGACAGAGGCCAGCAGCCATTTGATGATGCCTTAGAGCGGGAGA
81649	Mapk14	5' - [AminoC6] GTCCCCAGCTCTGGAATCATGTTCTTCTCACTCATGGTAGCCAGCTAAGA
286997	Mapk15	5' - [AminoC6] GGATATTTACCTGGTGTGTTGAGTCCATGGACACCGACCTGAACGCGGTCA
499280	Mapk1ip1	5' - [AminoC6] CTATAGCTGCGCCTTGGGCTTAGATCCTGCTGGAAAAATACCAGTGAA
361028	Mapk1ip11	5' - [AminoC6] CACCGTCGCCACTGTGCCGCGCTAGGACTCGGATCCTGCCGGAAAATG
50689	Mapk3	5' - [AminoC6] CCCAGAGCTGATCTCTGCTGTGTGCTTTATCTATCCCTGCTAGCCCCA
54268	Mapk4	5' - [AminoC6] ACCATCCCTGTAGTGCGGGAGGAAGACAAGGAGGAGCTGCTCAGGGTGAT
58840	Mapk6	5' - [AminoC6] ACCAGCCCTCCTGGGAGAGCCAGTTTGTGAGTGGCGGGGAGGAGTGCTTC
114509	Mapk7	5' - [AminoC6] TGGAGGACCCCTGCCTCCCCTGTTCTCAGGCACTCAAAGGCAGTGGG
116554	Mapk8	5' - [AminoC6] TAAGTAAAATGTATCAAGGCCTCATTATTTCTGAAATGATGCTGCAAT
116457	Mapk8ip1	5' - [AminoC6] GGCATGAAGATGAACTTGAGCTGGAAGTGGACGACCCTCTGCTGGTGGAG
315220	Mapk8ip2	5' - [AminoC6] CAGATGAACTAGAGTTAGATGTGGACGACCCGGTGTGGTGGAAAGCCGAA
302983	Mapk8ip3	5' - [AminoC6] TATGTGCACTCAGCGGTAGCCAACCTGGAAGAAGTGTCTGCACTCCATCAA
50658	Mapk9	5' - [AminoC6] CCACACTGTTAGAAAATTTGTTCAAGATCATTCAGGTGAGCAATTAGAAT
296648	Mapkap1	5' - [AminoC6] GTCAGTGCCCTACTGCTGCATATTGCTGAGGATGATGGGGAGGTGGACAC
289014	Mapkapk2	5' - [AminoC6] GATCATGCAATCTACGAAGGTCCTCAGACTCCACTGCACACCAGCCGCG
315994	Mapkapk3	5' - [AminoC6] TGGGATGACGTCAAGGAAGAGATGACCAGTGCCCTGGCCACGATGAGGGT
498183	Mapkapk5	5' - [AminoC6] ATAACCTTTGGACGCCCTGTGAAGTTATGTGACTTTGGGTTTGTCTAAA
362197	Mapkbp1	5' - [AminoC6] TGGGGCTGCTCCAGGAGGTCCAGCACGGGCTCTAGAGAGGACAGAGTCTC

171347	Mat2a	5' - [AminoC6] AAGATTTGTGACCAAATCAATGATGCTGTCCTTGATGCACACCTTCAGCA
59108	Mb	5' - [AminoC6] GAACCCAGAGGTGCAAAGTGGCCTCTGCTTCTCAGCTCTGCTGGGTCAT
313241	Mcart1	5' - [AminoC6] TTTCAGGGCAGCTGTACCCGGATAGATCTCATCTCCCGGAAGGGTTGC
315173	Mcat	5' - [AminoC6] AAGCTACATCACCTGCAACCGCGGTCATCGAGAACTGTGTTGCTGCCGC
361884	Mccc2	5' - [AminoC6] TGCCAAAGTGCCTAAGATAACTGTCATAATCGGGGATCATATGGGGCTG
293829	Mcee	5' - [AminoC6] CTGCCACTCTCCTAGTTGTCTTTGCCCGGGTCTGCTGTGCAAGCTTGTA
60430	Mcl1	5' - [AminoC6] AGAGGCTGGGATGGGTTTGTGGAGTTCTTCCACGTACAGGACCTAGAAGG
24551	Mdh1	5' - [AminoC6] GAAGATCTTCAAATCCCAGGGCGCAGCCTTGAGAGAAGTACGCCAAGAAAT
81829	Mdh2	5' - [AminoC6] CTGTCTGAAGCCATGATTTGCATCATTTCCAACCCAGTTAACTCCACCA
307270	Me2	5' - [AminoC6] CTTACCCCCGGGCCAAGGGAACAATGCATACATCTTCCCAGGTGTGGCTT
361602	Me3	5' - [AminoC6] CACCGTGGGGAAGTGTTTAAGTCTAAGAAAGACTTGATGTAATGTTTCA
29386	Mecp2	5' - [AminoC6] AAGCTCCAGGAAGTGGCAGGGGTCGGGGACGCCGAAAGGGAGCGGCACT
29470	Mecr	5' - [AminoC6] AATATGATCCAAGGAACTATGGCCTCCTTCCAAGCTGCCTGCTGTTGG
64370	MetAP2	5' - [AminoC6] GACAAGAGTGTGAATACCCACCCACCCAAGATGGGCGGACAGCTGCTTGG
192647	Mfn1	5' - [AminoC6] CTTGCAGAAGGATTTTCAGGCAAGATTACAGGAGTTTCAAATTTTGAACA
64476	Mfn2	5' - [AminoC6] CCCAGAAAAGTTTCAGGGTACTGAAGAAGTTGTGTCTTGCATTTGGCCCTC
171341	Mgst1	5' - [AminoC6] AGAATGCCAAGAAGTTCTTTCGGACTGACGAGAAGGTGGAACCGCTGCGA
289197	Mgst3	5' - [AminoC6] GCAAGCGGTATCGAGGAGCTGTGAGCTCTCTTGCCTCTTTGCCCTGATG
81684	Mipep	5' - [AminoC6] GTCCATTCTTATCCCTTGGAGCTTGCATGGAAGGCCTGAATGTCTATTT
500526	Mknk1	5' - [AminoC6] CTCTTCGCAGCTGAGGCCATTGCCCTCAACCGCCAGCTGTCTCAGCATGA
299618	Mknk2	5' - [AminoC6] GCAGAGCTGGAGGGGACCCAGCCAGCTCCACCAAGGCAGGAGAGGTGCT
85239	Mlycd	5' - [AminoC6] GACCCCTGGTTGTCTTTCGATGTGGCTCTGACCGGTGACATTTCCAACAA
291939	Mmaa	5' - [AminoC6] TAACAAAACAGCTGGAATGATGTGAATCCAATGTTTAGACTCTACTTGGC
266713	Mnat1	5' - [AminoC6] ATCCAAAAGCTTGAGGAAGCTCTCTATGAATACCAGCCCCTGCAGATAGA
288924	Morg1	5' - [AminoC6] ACGCTGTGCGGACGTACAGTGGCCACGGCTACGAAGTGTCTGATGCGGC
299173	Mphosph6	5' - [AminoC6] AGAAGATATGAGAGTTTGGTAGGAACAATTGGGAAAATGTTTTCCAAGAA
300741	Mpi	5' - [AminoC6] ACAAGGAGCTGGCAGAGAAGCTGCACCTTCAGGCTCCAGAGCACTACCCC
303413	Mpo	5' - [AminoC6] AAGTACCTACCCAGTACCGATCCTACAATGACTCAGTAGACCCCTCGGAT
192172	Mpst	5' - [AminoC6] TGGCAAAGCCCCCTCGGAACCTGCGGAGTTCTGCGCGCAGCTCGATCCCT
691814	Mrp63	5' - [AminoC6] CCTCCTTCGCGGCCGATTCGGGCAGGCAGTGGATCGGGAAGCACCGGC
289491	Mrpl1	5' - [AminoC6] TTAAGGAAGAACTGAAAAAAGATTTCCAAGGCTACTAGAAATCTAT
691075	Mrpl10	5' - [AminoC6] AAAGCCTTTTCTAGAAGATTCCAATAACAAAACCTGCTACCCCTTTTTG
293666	Mrpl11	5' - [AminoC6] GAGATTGCCCGTGTCAAAGCTAAGGATGAGGCTTTTGCCATGCAAGATGT
303746	Mrpl12	5' - [AminoC6] GACGGAAGCGAAGCCTGTGGACAAAGTGAAGCTGATCAAGGAGATCAAGA
299938	Mrpl13	5' - [AminoC6] GAATGCTCATGAAGTATTCCTGTGACCTAGGGCAGAGAGAGAACACGGGA
301250	Mrpl14	5' - [AminoC6] TCTACAGGATGGGCTCATGCTAGCAGGTTTGCCGCTTTGGGACCCCATGG
297799	Mrpl15	5' - [AminoC6] CTCATTGATTTAGGTGCGAGTTGATCCAACCTCAACCTATTGACTTAACGCA
293754	Mrpl16	5' - [AminoC6] GTGGCCATGTGGAGGCTACTGACGCGCGCGCCCGCCGCTCTGGCGGAT
171061	Mrpl17	5' - [AminoC6] TTAAGTGGAGCTGGAGAGTGCATAGGTGTGGTACCTGTGTTGGTGGTCT
292244	Mrpl18	5' - [AminoC6] GCTCTTAGGTGTAGCCCGAAAGAACGGGGCTGGGCTACAGTGTGGCCCA
297372	Mrpl19	5' - [AminoC6] CAAGGTGTGGAGATTTGCTTTGAACTGTATAACCTCGAATCCATGAGAT
301240	Mrpl2	5' - [AminoC6] GCAGCCGAAACGCTGGATCATTGCCACAGAAAACATGAAGGCAGGAGAT
309140	Mrpl21	5' - [AminoC6] CTGGGCTTGTGCGTTGACGCACAAAGTTCGCGCCGCTTCCGGTTCCGGTT
287302	Mrpl22	5' - [AminoC6] CTCGAAGATGGGAGAAGAAGAATAAGATTGTTTACCCGCTCAGCTGCCT
64360	Mrpl23	5' - [AminoC6] GCTCCGTGTGTTTCGAACTAACTTCTTCATTTCAGTTGGTGGGCTGGTA
295224	mrpl24	5' - [AminoC6] AATCCTCCCTGGAGCAGGCGGCGCCAGTAGTGGTAGAGCCCATCTCTGA
287635	Mrpl27	5' - [AminoC6] GCAACATCCTTGGCACTCAGCGGCAGTTTCAGATGGCACCCAGGCGCCAT

497876	Mrpl28	5'-[AminoC6]CAGGTATCCTGTGCACCTGTGGCAGAAGCTGCGGCTGCAGCAAGGCATCT
300974	Mrpl3	5'-[AminoC6]AAACTATTGGTAAAGGTTTTTCAGGGCGTCATGAAAAGATGGGGATTTAAA
301352	Mrpl30	5'-[AminoC6]AAGAATAAGAAGCACAAAGAGGGCTCCATACTGGGAGAAAGATACGATCA
291206	Mrpl32	5'-[AminoC6]ATTAAGAACAATATAGACATTTGCCCTGAATGTGGTCACCTGAAGCAGAA
290632	Mrpl34	5'-[AminoC6]ATATATTTGAAGGTATCTTTTGAAGACAGGCTCATCCACCCCAACGTTTC
297334	Mrpl35	5'-[AminoC6]AGGAATGCCTGTCTTAGTTCTGCGCTGCGCACCATTCTTTTAGACATAT
364656	Mrpl36	5'-[AminoC6]ATCAGAGAAAAATAAACGTAAGCATTCTGTAAGATCCGTGGGCCCTAGGG
56281	Mrpl37	5'-[AminoC6]TGTGTAAGTCCCAGATTATCAAGCACCCCTTCTCTAGCCAGGCGGACCTCT
303685	Mrpl38	5'-[AminoC6]CCCTACACGTGGCGTATGCCCTGGGAGAAGAGGACCTGATCCCAGTGTAT
363023	Mrpl4	5'-[AminoC6]TCGGGGGCCAGGTGAGCAAGCACACCAGCCATCCCCAAAAAATCAGTTT
287962	Mrpl40	5'-[AminoC6]GGGTAATCAAAGTATCTCTGTCTATTTATTTAATCAAATGAATTTACC
296551	Mrpl41	5'-[AminoC6]TCTGACCTCAAGTCGAAAGGGAGAAGAGTCTTGAGGGCCGAACCTCTAGA
299743	Mrpl42	5'-[AminoC6]GTCCCTACGAACACACCCAACTATCCCTCATCCAGATCTTCTGCATAA
309440	Mrpl43	5'-[AminoC6]CTGGCGGCTTCCACTCATTCCCACGTCCTCTGCCAGTTAACGGGGCTGT
287656	Mrpl45	5'-[AminoC6]GTACGGCCAGGTCACCGTGCCTGCACACTCGGCAGACGTTGGCCATTT
293054	Mrpl46	5'-[AminoC6]AGACCATGAGCTCCGTGCTCTGGATGAAGCACAGCGACTGGCAAAGAAGA
293149	Mrpl48	5'-[AminoC6]GAAGATACAGACACTTGGTGAAGTGCTAGAGCCCAAAAGAAGAAAGCA
362517	Mrpl50	5'-[AminoC6]AGATCTAAATTTGATGAACCTATTGCTAGTAATTTACCTCCCAATTTGAA
361037	Mrpl52	5'-[AminoC6]GACCGCTTCTTGGTGGGGCCCTATCAGAACACCATCGGGGCTGCTTTTGT
362388	Mrpl53	5'-[AminoC6]TGCCGCAGCAGCATCTGCACCCAGCGCAGACAAGTTCGCCCCAGGTACGG
299628	Mrpl54	5'-[AminoC6]GTGTGGGCACTTCTCCCAGGAGCCAGCCTGGTGCCAGCCAGAACGGGGA
287356	Mrpl55	5'-[AminoC6]CTGCTTGGCCTGCTGAGGCACTGTGGTGTGAGGGCAGCCTTCCCTGCACC
310653	Mrpl9	5'-[AminoC6]TAGGAAGCTGTTTTGAAGAGGAGAAATTGCTGAGACAAGAAGGAAAAGTGG
363187	Mrps10	5'-[AminoC6]GCCTGTCCATTTTAGTGAAAGCCATGACAAGGCTGTATTAGACAGTTAT
499185	Mrps11	5'-[AminoC6]TCGCAGCACAGACGGCAGGCATAGCTGCAGCAGCAAAAGCCACAGGCAAA
292758	Mrps12	5'-[AminoC6]ACACCCTGCAGGAGCACACGTTGGTCCCTCGTGAGGGTGGTTCGCACCCAG
289143	Mrps14	5'-[AminoC6]CAGATGAGCGGCTTCGGATCAATTCGCTCAGAAAGAATACCATTTTGCCA
298517	Mrps15	5'-[AminoC6]TACGGGGTATGTTTTCCGAGAGGTAATGCTGGCAGCCGTAGGAGCTGTCTA
688912	Mrps16	5'-[AminoC6]AACCGGCCTTTTTACC GCATTGTGGCTGCTCACAACAAGTGTCCCAGGGA
301249	Mrps18a	5'-[AminoC6]CTCATGGAGGCATGCTGCCCCGAGAATCACAGGCCTGTGCCGGGAAGAA
294230	Mrps18b	5'-[AminoC6]GACTACCGCCGCAACCACAAAGGTGGTGTGCCACCACAGCGGACCCGAAA
362094	Mrps2	5'-[AminoC6]ATGGCCACCCAAAGTTCAATCATCTTGAGCTAACCTGGTCTGTCTCTT
689432	Mrps21	5'-[AminoC6]TAGATTGAGTAAAACCACCACCAGTGGTAACGCGTACTCTGATGGGCTT
360594	Mrps23	5'-[AminoC6]CCTATGGATCTGGTCAAAAGCTATTGATCTGTTCAACCCAACTTCAAG
498406	Mrps24	5'-[AminoC6]CTGGCTGTCGCAGCACACAGGTAACCTGGATGGAGAAGACCATGCCCGGG
297459	Mrps25	5'-[AminoC6]ATCTTGGGCAAGAAAGAGGAGACCCTCAGGGAGGAGAGCTGGAGAAGCA
362216	Mrps26	5'-[AminoC6]CGGTCACCAAAGAAGGGCAGGTGGTCAGGAACTGAGAACAGAGGCCCTCTC
361883	Mrps27	5'-[AminoC6]CAGCATACGTGGACAGCCACCAGTGGGAAGCAAGAGAGAAGGAGCAATGC
689025	Mrps28	5'-[AminoC6]TTTTGGTTTTGAATTAATTCAGCACAGTGTGAGTGTACAGCAGATTGGTT
290850	Mrps31	5'-[AminoC6]CAGACGACCAAGTCAGAGCTGCTCAAGCAGCTGCAGCAACACGAGGAAGA
296995	Mrps33	5'-[AminoC6]GCCCGTATCTTTGGTGAAGTGCCAGGCCACTGACTCAAAGTCCATGAA
287126	Mrps34	5'-[AminoC6]GTACCCAAGCACGAGGAGGAGGCTTTCACTGCGTTCACTGGGAAAGCAGA
297727	Mrps35	5'-[AminoC6]AAAGCTGTTATGGCAAAAACCTGCATCCAGATGTGCTGGCCACTTCTGAT
294696	Mrps36	5'-[AminoC6]TAAACAACCTTAATAAAATGTTCTGTAAGCAGAATGAAGTATAGAAACTCC
296134	Mrps5	5'-[AminoC6]GGTAAGAAATGTTTTCAATATGACAGCAAAAGAGGGAAGAAAGAAGTCAG
113958	Mrps7	5'-[AminoC6]AACATGATGATGAAGGGGGGAAACAAAGTTCTGGCCCGATCACTCATGGC
301371	Mrps9	5'-[AminoC6]GGAGGAAGTAAAGAAATGTTAGTGGAAAACTGTGAGATCAAGATTACA

311903	Mrrf	5'-[AminoC6]AGCGGCTAGGCAGAGAGAAAAGTTGTAGGCTTGATTCCAGAGTCTGTTCT
81521	Msn	5'-[AminoC6]TCTCTTTCAATGATAAGAAATTTGTCATCAAGCCTATTGACAAAAAGGCC
26197	mt-Atp6	5'-[AminoC6]ATAGGTCTACCAATTGTTGTAACCATTATTATGTTCCCATCAATCTATT
26196	mt-Atp8	5'-[AminoC6]ACAATCATCTCCTCAATAGCCACACTATTTATTTTATTTCAATTAAAAAT
26195	mt-Co1	5'-[AminoC6]GGTATGAGCCATAATATCTATTGGCTTCTTAGGATTTATTGTATGAGCAC
26198	mt-Co2	5'-[AminoC6]AATTCTATACATAATAGACGAGATTAATAACCCAGTTCCTAACAGTAAAGA
26204	mt-Co3	5'-[AminoC6]CATCCGGCTTAGTAATATGATTCCATTACAACCTCCACAATTTCTCCTATCA
26192	mt-Cytb	5'-[AminoC6]CGCCCCATCTAACATCTCATCATGATGAAACTTCGGTTCTCTACTAGGAG
26193	mt-Nd1	5'-[AminoC6]CTAGGCTACATACTAACCTACGCAAAGGCCCAACATCGTAGGCCCATATGG
26194	mt-Nd2	5'-[AminoC6]CTGAGGAGGACTTAACCAGACCCAAACACGAAAAATCATAGCATATTCAT
26199	mt-Nd3	5'-[AminoC6]TTCGACCAACAAGTTCTGCACGCCTTCTTTTTCAATAAAATTTTTCTT
26201	mt-Nd4	5'-[AminoC6]TGCAGGAATTTATTTCTATTTTATACACTAATTGGCTCCATCCACTCT
26200	mt-Nd4l	5'-[AminoC6]AGGAATAATACTATCACTATTTGTCATAACTTCAACATCCACATTAACCT
26202	mt-Nd5	5'-[AminoC6]TTACCGAATACCTTTCCTCACAGGATTTCTATTCAAAAGATCTCATCATC
26203	mt-Nd6	5'-[AminoC6]TAGGGTTTGGGGTTCGTTTTTAGGTTAATAGTATTTTTAAATTTATTTG
170602	mt-Rnr1	5'-[AminoC6]TAATAATTAACCTACAAAATTTATTTGCCAGAGAAGTACTAGCTACAGCT
170603	mt-Rnr2	5'-[AminoC6]AACTAAAACATTTAACTCAAAAAGTATTGGAGAAAGAAATTTACTTACC
359842	mt-T2	5'-[AminoC6]ACTTTTATAGGATAGAAGTAATCCATTGGTCTTAGGAACCAAAACCTTG
170609	mt-Ta	5'-[AminoC6]GAGGATTTAGCTTAATTAAGCAGTTGATTTGCATTTAACAGATGTAAGA
170611	mt-Tc	5'-[AminoC6]AGCCTTAAGGTGATATATCATGTGCAATTGCAAATTCGAAGGTGTAGAGAA
170614	mt-Td	5'-[AminoC6]GAGATATTAGTAAAATAATTACATAACCTTGTCAAGGTTAAGTTATAGAC
170619	mt-Te	5'-[AminoC6]GTTTCTATAGTTGAATTACAACGATGATTTTTTCATGTCTATTAGTCACAGT
170599	mt-Tf	5'-[AminoC6]GTTAATGTAGCTTATAATAAAGCAAAGCACTGAAAATGCTTAGATGGATT
359816	mt-Tg	5'-[AminoC6]ACTCCCTTAGTATAAACAATACAACCTGACTTCCAATCAGTTAATCTGAA
170618	mt-Th	5'-[AminoC6]GTAGGTATAGTTTACAAAAACATTAGACTGTGAATCTAACAACAGGAAA
170605	mt-Ti	5'-[AminoC6]AGAAATATGTCTGACAAAAGAGTTACTTTGATAGAGTAAATAATAGAGGT
170615	mt-Tk	5'-[AminoC6]CATTGCGAAGCTTAGAGCGTTAACCTTTAAGTTAAAGTTAGAGACAACA
170604	mt-Tl1	5'-[AminoC6]ATTAGGGTGGCAGAGCCAGGTAATTGCGTAAGACTTAAAACCTTGTTCCT
170607	mt-Tm	5'-[AminoC6]AGTAAGGTCAGCTAACTAAGCTATCGGGCCCATACCCGAAAATGTTGGT
170610	mt-Tn	5'-[AminoC6]TAGATTGAAGCCAGTAAGTAGGGTATTTAGCTGTTAACTAAATTTTCGTA
170621	mt-Tp	5'-[AminoC6]CAAGAAGTAGTTTAAATAGAATATCAGCTTTGGGTGTTGATGGTGGGGAG
170606	mt-Tq	5'-[AminoC6]TAGGATAGGGTGTATTGGTAGCACGGAGAATTTTGAATTCCTTAGGTGTAG
170616	mt-Tr	5'-[AminoC6]TGGTAATTAGTTTAAATAAAATTAATGATTTGACTCATTAGATTATGAT
170613	mt-Ts1	5'-[AminoC6]GAGAAAGACATAATGGTTATGAAATTTGGCTTGAACCAGTTGTAGGGGGT
359843	mt-Ts2	5'-[AminoC6]TAAAGTGCCTACCACATCCTGGGGGGACCTTAGCTGAGTCCCCACCATC
170620	mt-Tt	5'-[AminoC6]GTCCCGATAGTATAAAAATTACTCTGGTCTTGTAACCAAAAATGAAGAG
170601	mt-Tv	5'-[AminoC6]CACAGTGTAGCTTAATCACAAAGCATCTGGCTACACCAGAAGAATTC
170608	mt-Tw	5'-[AminoC6]AGAAGTTTAGGATATACAGTCCAAGAGCCTTCAAAGCCCTTAGAAAACAA
170612	mt-Ty	5'-[AminoC6]GGTAAAATGGCTGAGTAAGCATTAGACTGTAAATCTAAAGACAGGGGTTG
294313	Mtch1	5'-[AminoC6]CTCCTGGGGCATGTGGTTTTCTTGTGGGGCTGTAACCTGCTGGCCACTT
295922	Mtch2	5'-[AminoC6]CGTGATTACTCTGAGGTCCATGGTACAGTTTATCGGCAGAGAGTCTAAGT
498814	Mtcp1	5'-[AminoC6]GCGCAGGAGCTGCTCCTACAACCTTCTGCCAGAACCCTGACCCGCTACACG
85261	Mterf	5'-[AminoC6]CGGTCTAATAACAACCTAACTTAGAGAATAACATAAAGTTCTCTGCTC
315763	Mtfmt	5'-[AminoC6]ACAGTCTCAGCTCCCGGTATATGAGTGGCCGACATGGGATCCGGAGAAT
64300	Mthfd1	5'-[AminoC6]TGCGACAGCCTTCTCAGGGCCCCACCTTTGGGATAAAAGGTGGCGCTGCA
361472	Mthfd1l	5'-[AminoC6]ACGAGAATTTTCCATGAGAGCACTCAGACAGACAAGGCTCTATACAATCG
680308	Mthfd2	5'-[AminoC6]CCAGTATTCATGTCTGCCAGCAACTCCATGGGGCGTGTGGGAGATACTCA

305606	Mtif2	5'-[AminoC6]AGACAGATGCTGATCCTGAAAAGGTGAAAAAGAGCTCCTGGCTTATGAT
114211	Mtnr1a	5'-[AminoC6]GGAAATAAGATCGCGGCCGTCGTGGCTGGCCTCTACACTGGCCTTCATCC
300852	Mto1	5'-[AminoC6]AAATAAATGGAACCACAGGCTACGAGGAAGCTGCAGCTCAGGGGGTGATA
289745	Mtp18	5'-[AminoC6]TGGCTGTGGTAGATACCTTCGTGTGGCAGTCTCTGGCCTCTGTGGCCATT
307050	Mtpap	5'-[AminoC6]ATAAGCAAAAATGTGAGTCAGAACCAGCTACAAAAATTTGTGGAATTGGC
361473	Mtrf1l	5'-[AminoC6]AGAGAGTGAGATAGCTTTGTGTCAAAAAGAAATAGCCGAGCTGAAGCATC
290947	Mtrr	5'-[AminoC6]CATAAGGACAGAGACTATTTGTTTCAGGGAGGAGCTCAGGCATTTCTCAA
306487	Mtus1	5'-[AminoC6]TTTTCTAAACACAAATCTGTATAAAGAATAAGAGGGCAGTACCAATGGAT
288150	Mtx2	5'-[AminoC6]ACCAAAGCTGTCAATGTTGTACGCTTTTCTCCAAC TGGGGAGATTTTAGC
688517	Mut	5'-[AminoC6]CCAAGGTCATTGCTACAGGCTTTGCTGATCTTGGTTTGTATGTGGACATA
170841	Mutyh	5'-[AminoC6]GTGCTGTGCCGTGTCCGCGCCATTGGTGTGATCCCACCAGCTCCTTTGT
360961	Mxd4	5'-[AminoC6]CGGCTGCCGCCCTTCATCGACTCGGCGCTCCAAGACGACCACAGTAAGATC
60571	Mybbp1a	5'-[AminoC6]CTCTCTGTACCTGCTGCGAGTCTCAAGGGCAACACCCTAAGAGGTACC
295929	Mybpc3	5'-[AminoC6]GCAACGCTGGTCC TGCAGATCGTGGACAAGCCAAGTCTCCCTGGATAT
24577	Myc	5'-[AminoC6]CCTGCGCGACCAGATCCCTGAGTTGAAAAACAACGAAAAGGCCCCCAAGG
301059	Myd88	5'-[AminoC6]AGCGACTGATCCCTATCAAGTACAAAGCAATGAAGAAGGACTTTCTTAGT
24583	Myh3	5'-[AminoC6]GATCGATAGAAAGATCGCAGAGAAGGATGAAGAGATCGAGCAGCTGAAGA
29556	Myh6	5'-[AminoC6]CGGACACTGGAGGACCAGGCCAATGAATACCGGGTGAAGTTGGAAGAAGC
315165	Naga	5'-[AminoC6]GGAGCGTGCAGAGGGGTACCCCAAGATGGCTGCTGCCCTGAATGCCACAG
303563	Nags	5'-[AminoC6]CCAGCTACGGTGGCATCGTCGCGGTGGAGACAGACCTGTTGCAGTGGTGC
116631	Nat1	5'-[AminoC6]CAAATATAGCAGTGAAATGGTCCACCTTCTAGTACAAGTGACCATCAGTG
296372	Ncoa5	5'-[AminoC6]CAATGTCCCTAGTCCCCCTTCTCTGGCCCCCTCCCACTTCATCGTAAGTA
363441	Ndufa1	5'-[AminoC6]ATGGAACCGGATAGACGCATCTCTGGTGTCAATCGCTACTATGTGTCCAA
678759	Ndufa10	5'-[AminoC6]TGCAGTACTCAGATGCCCTGGAGCACCTCTTGAGCACAGGACAAGGTGTG
299739	Ndufa12	5'-[AminoC6]CAGCAGGTCACCGGCCACGGCGGCCTGCGGGGCCCTCTACGGGTTTTCTT
314759	Ndufa13	5'-[AminoC6]GGGACTGTGCGGATACAGCATGTTTGCTTTGGGCATCGGGGCCCTTGATCT
691001	Ndufa3	5'-[AminoC6]GTGCTGGTGGTGTCTTCACTGTCTGGGGCCTCGCTATAATTATGCCCAT
681024	Ndufa4	5'-[AminoC6]TCTCTCTCGGTGTAGGTAGGCTGTGCCGCAAACATGCTCCGCCAGATCC
25488	Ndufa5	5'-[AminoC6]GAAAGGTTCCAGAAAGGCCGCGCTGGAGTCTCTGAGCGCAGTCATGGC
315167	Ndufa6	5'-[AminoC6]GTCCGAGAAATGTTTCAATGAAGAATGCCCATGTCCAGCCCCAGAGTGGT
299643	Ndufa7	5'-[AminoC6]CCACCTAACCCAGATTCAAGGCTGGTCATAGTGGTACAACCCCTAATCCC
362440	Ndufa9	5'-[AminoC6]CATCTGACATGTTCCGAAGGGAGGACAGGTTCTCAACCCTTTGCAAAT
293453	Ndufab1	5'-[AminoC6]CCTAGGTTCTATGCACAACAGTGAAAAATAAGACCTGGAAATAACCCCTG
296086	Ndufaf1	5'-[AminoC6]GATACTGACTTCTGATAAGACAATTGGAGGTAGAAGTGAAATATTTCTGA
681418	Ndufb10	5'-[AminoC6]ATGTGTACCCGGAGCCCCGCGCCGACGCCTGCTCCCTCGCCCGAGACC
301427	Ndufb3	5'-[AminoC6]GCTTTGCAGACAATATCACCTTCACGAGCGTAATGTTAAAAGGATTCAAA
288088	Ndufb4	5'-[AminoC6]AAGCTACAGTAGGGGAGATCACTCTTGCTAGGTATGGGTCTCCTTATCCT
501886	Ndufb4l1	5'-[AminoC6]TGCAAGATCAGCAAATGTTTATCCTAATTTTCAGACCCACTCCCAAGAACT
294964	Ndufb5	5'-[AminoC6]CAAGGTTTTTCTCCAGGGTCCAGAAGTTGGACCCGAGATGTTTTTTGCAC
297990	Ndufb6	5'-[AminoC6]TGATCTTCAAGGCTACCGCACCAAGTCTCTTCACTGTTTCCCATGTGATC
361385	Ndufb7	5'-[AminoC6]CAGGGAGAAGGAGAGGTGGGCCCTGAGATGGCCCTGTAGGGATTGACCGC
293991	Ndufb8	5'-[AminoC6]CGCTCACAGCATGAGAGGGATCCGTGGTATGAATGGGACCACCCAGACCT
299954	Ndufb9	5'-[AminoC6]GACAAATACCGGTACCTTGCTTGCTTGATGAGAGCCCGGTTTGAAGAACA
689938	Ndufc1	5'-[AminoC6]TCTGCGGTACTGCCGGAGATGCGCGCGCAGGAGGAAGGCGGTGCCCGCT
293130	Ndufc2	5'-[AminoC6]CTTGCCGGATGAGGCCCGGAGACTGCCCCCGCCAAGCTGAACGACCCGC
301458	Ndufs1	5'-[AminoC6]CCATTGATGTAATGGATGCAGTGGGAAGTAACATTTGTGGTTAGCACAGA
289218	Ndufs2	5'-[AminoC6]ACGATAGGTATCTGTGTGCTGTGGAAGAGATGCGCCAGTCCCTTCGAATC

499529	Ndufs4	5'-[AminoC6]GCAAACCTTTTCTTGGAAACAAAAGAACAAGAGTGTCTACAAAATAGGTTGG
362588	Ndufs5	5'-[AminoC6]TGCAGAAAAGGCTGGGCATTAGCCTAGATCGACACTTTATATTCCTAAGT
29478	Ndufs6	5'-[AminoC6]CGTCAGAAAAGAGGTGAATGAGAACTTTGCCATTGATTTGATAGCACACA
362837	Ndufs7	5'-[AminoC6]GGTGTTCCTGCGCAGCCCGCGCCAGGCTGACGTGATGATCGTAGCTGGCA
293652	Ndufs8	5'-[AminoC6]GAACTCTTCCGAGGCTGGGCATGACCTAAGCTACCTCTTTGCGGGAGCC
293655	Ndufv1	5'-[AminoC6]TCTGCCTGGTCTGTGGGGATGTGGCCTCTGGCTACCACTACGGTGTGGCA
81728	Ndufv2	5'-[AminoC6]GAGACTACGCCTGACAAGCTTTTCACTCTTATAGAAGTAGAATGTTTAGG
64539	Ndufv3	5'-[AminoC6]GGGCCAAGCTCCTAGACACTCACACAGCAGCGGCACTGTCCAAAAGCTCC
24588	Nefm	5'-[AminoC6]CCAGGAGGTGGAGCTGGACAAAACAGGTGCACTTGAGTAAACAGACCATTG
29458	Neurod1	5'-[AminoC6]CCTTCCTTTGACGGACCCCTCAGCCCGCGCTCAGCATCAATGGCAACTT
81736	Nfkb1	5'-[AminoC6]TGTGGAGACATCCTTCCGCAAACCTCAGCTTCTCGGAGTCCCTCACTGGAG
25493	Nfkbia	5'-[AminoC6]CCTTGACAGTGGACCTGCAGAACTCCTGACCTGGTCTCGCTCCTGTTGAAGT
81525	Nfkbib	5'-[AminoC6]AACAGCAGCAGTGACAGCGACAGTGACAACAGAGATGAAGGCGATGAATA
308496	Nfkbid	5'-[AminoC6]CCGTGAACACAAAGGCAAGACGCCTCTCCTAGTGGCAGCTGCTGCCAACCC
316241	Nfkbie	5'-[AminoC6]TTTGTGCTATCTTCTCTGGGTAGGGCTGCACATATCTACCCACTCTCCTT
304005	Nfkbiz	5'-[AminoC6]GACTCCCTCCACTGTGCGGTCTGGCTCACAATTCGGTGGTGCACGACC
84594	Nfs1	5'-[AminoC6]GAAAGCCTGCTGATGGCACTCAAGGACGTTGCCTTGTCTCGGGGAGTGC
310738	Ngf	5'-[AminoC6]AAGAAACGGAGACTCCGTTACCCCGCGTGCTGTTTAGCACCAGCCTCC
24596	Ngfr	5'-[AminoC6]AGGGACTGACCTAGGCCACCCAACACAGGAAGAACAATGAAGGCTGAT
619581	Nicn1	5'-[AminoC6]GCTCCCCGCTTGAGGGTCTCCCAGACCCAGCAGAGTCTCCTCTGAGGT
360971	Nipsnap1	5'-[AminoC6]CACGAATCATGATCCCCCTGAAGATTTCTCCTCTCCAGTGAGGCTGGCAC
305751	Nkiras1	5'-[AminoC6]TAGGTTAGCATGAGTAGCTTCTGTATTTCAGAGCCCTGTCTTTATAAGCTA
298316	Nkrf	5'-[AminoC6]TTGCTAAGAGGGATATAGAACAGATCATCAGAAACTATGCCCGCTCTGAA
117041	Nln	5'-[AminoC6]GATTCACTGGAACAAACGTGGAACTGACTTTGTAGAGGTGCCATCACAA
315599	Nlrx1	5'-[AminoC6]CTCAGCTTGGCTGTCCATTAAGAACCTGGATGCCCTGGAGAATGCCAG
685679	Nme4	5'-[AminoC6]GTTGCAGGCACCAGAGAGCATCCTTGTCTGAGCACTACCGGGACCTACAGA
497196	Nms	5'-[AminoC6]TCTGTATGCTACAGATCCCCCTCCTCAGGAGCTTCTCCACCTTTAGCTGGT
63887	Nmu	5'-[AminoC6]GCCTCAGGCATCTGTTGCATTGAGGAAGCTTTGCCGTGCTCTGATGGAGA
310378	Nnt	5'-[AminoC6]CATTGTTATTACTCCAGGATATGGGCTCTGTGCAGCTAAAGCTCAGTACC
24598	Nos1	5'-[AminoC6]AGCCAGGGGACCACCTGGGTGTCTTCCCGGCAACCACGAGGACCTCGTG
24599	Nos2	5'-[AminoC6]TTCGCCAGACAACTGTGTGCCTGGAGGTTCTAGATGAGAGTGGCAGCT
292894	Nosip	5'-[AminoC6]AGCGGCTCAGGCTATGGGACCCAGAACATTCGACTGAGCCGGGATGCTG
290029	Np	5'-[AminoC6]GTTCCGGCTTAGGAGGGCTGACCGCTAAATTAACCTCAGCCTCAGGCCTTT
308387	Npas1	5'-[AminoC6]GGATGTGACCAGGATCCGCCAAAAGCCATCTGGACCTGCTGGACAAAAGGGC
316351	Npas2	5'-[AminoC6]ACTGGAGTCCAGAAGCAAACAGCTTTAACCAATGGAAAACGGGGTTGGCC
299016	Npas3	5'-[AminoC6]CGCCTGGGCGGGCCTCCTCTCGCAGGGCACACAGAGGACGCGGCCAGT
266734	Npas4	5'-[AminoC6]GGCTGTCTACCTGCACATCATGAGTCTTGCTGCATCTACACTCGCAAG
24603	Npr1	5'-[AminoC6]GAACTGGGGCAGCTGATGCAGCGGTGCTGGGCAGAGGACCCACAGGAGCG
116564	Npr2	5'-[AminoC6]TCAGAGCCGTATTTCCGGCCAAGCATTGACCGGACACAACCTGAACGAAG
25339	Npr3	5'-[AminoC6]TGCGGGAAGATTCCATCAGATCACATTTTTTCGGTGGCTTAAAAGAAATGC
24604	Npy	5'-[AminoC6]GACAATCCGGGCGAGGACGCGCCAGCAGAGGACATGGCCAGATACTACTC
66024	Npy2r	5'-[AminoC6]CTATGCCAGGGTCTGGCAGTACAAGTGTCCACAATAACTTTGACAGTCA
252917	Nr1d1	5'-[AminoC6]CGCACCCACCTCAGGCTCCGTGGGCCCTCACCACTCCTGCACCAGCC
245980	Nr2f6	5'-[AminoC6]CATGCGCTGGTGGGCAAGACACCCATCGAGACGCTCATCCGGGACATGC
24413	Nr3c1	5'-[AminoC6]GACTTGGTGACATGCCTGTATGACTCATGACCGATCTTGAAAGATATCTT
79240	Nr4a1	5'-[AminoC6]AGGGGAGGGGAGAGCTATCCGTGCCAGCCGCTTTCCCGGGCTTGGCAC
246143	Nradd	5'-[AminoC6]CATAACGTCAGCAAAGGTGTGGTGTATTTCAGATACAGCCCTGAAGGGGCA

312195	Nrf1	5'-[AminoC6]CATGGACCCAAGCATTACGGACCATAGTTAAAAATTGTTATAAGCAGCAT
112400	Nrg1	5'-[AminoC6]TAGCCGGCGGGCCAAAAGAACCAAGCCCAATGGCCACATTGCCAATAGGT
64356	Nrgn	5'-[AminoC6]GATGATCCCGGAGCCAACGCCGCTGCAGCCAAAATCCAGGCGAGTTTTTCG
361791	Nrm	5'-[AminoC6]TCAAGAGCCTCCTTTTCTCTTCAGAGCATGACCTCCACACACACACAGGG
293528	Nsmce4a	5'-[AminoC6]ACGCAACTCAGGTACCAAACCTGTTCAACATCTCTGGCCATGTCAACCACC
287368	Nt5m	5'-[AminoC6]TGTGGAAGCTGTGAAGCATATGGCCAGTCTGCAGAACACCGATGTTTTTCA
81737	Ntf3	5'-[AminoC6]GGGGTGGGCGAGACTGAATGACCGAACTCGAGTCCACCTTTCTCTTCATG
25730	Ntf4	5'-[AminoC6]CCCCAGAGTGAGGAGGTGGAGGTGCTGTTGACAGGTGTGCAAAGCCATGC
59109	Ntrk1	5'-[AminoC6]CAGGACAAGATGCTGGTGGCTGTCAAGGCACTGAAGGAGACATCTGAGAA
25054	Ntrk2	5'-[AminoC6]AAAGGGAAAAAATAATCAAACATCTGACTTAAACCGTCACCTCCGATG
29613	Ntrk3	5'-[AminoC6]GTGTTGAAGAGAGAAGTGGGTGAGGGAGCCTTTGGAAAGGTCTTCTCGGC
64709	Nucks1	5'-[AminoC6]TAAGAAGTCCAACCTGAGAGGAAAGAAAAGAAAATGCCCAAACCCAGAC
291877	Nudt21	5'-[AminoC6]CTGATCGTACACGAGCACCAGCCTGCCCCACGTGCTACTGCTACAGCTGGG
305149	Nudt9	5'-[AminoC6]AGAAGATCAGTGCCACACTGAAAAGGGAGTTTGGTGAGGAAGCCCTGAAC
311336	Nusap1	5'-[AminoC6]AAAAGCTTTTGGAGCTCGAAGAACTTGGGTGTGACTAAAGCCAGTGA
363938	Oas2	5'-[AminoC6]GTTCTGGCAGCTACTGGCAGAAGAGGCTCAGGAGTGGCTGAACTCTCTCA
64313	Oat	5'-[AminoC6]AAGGAGCTCATGAAGCTGCCATCTGATGTTGTGACTGCTGTGAGAGGGAA
24609	Odc1	5'-[AminoC6]CACTGTTGCTGCTGCTTCTACTTTCAATGGGTCCAGAGGCCAAACATCT
360975	Ogdh	5'-[AminoC6]ACTGAGGAACCCACTTCCAAATCAATAAAAAGCTCCTGTCCCCTTTCCC
81528	Ogg1	5'-[AminoC6]TTGATGATGTCACCTTATCATGGCTTCCCAAACCTTCATGCCCTGGCTGGT
171116	Opa1	5'-[AminoC6]GAGGGTCATCCAGCACAACGCTCTGGAGGACCGGTCCATATCAGATAAGC
308409	Opa3	5'-[AminoC6]AGAGTCCCTGGGCCTTGTTCAGGTGGCACCTATTTCCCTCCTGTCCCTCA
192223	Opn4	5'-[AminoC6]AGGCCGGCCTGTGAGGGCTGTGGTGAGTCCCCTCTGCGGCGCGGCAGT
25601	Oprm1	5'-[AminoC6]ATTTTCAACCTTGCTCTGGCAGACGCCCTTAGCGACCAGTACACTGCCCTT
25611	Otc	5'-[AminoC6]CTGATTACCTTACACTCCAGGAACACTATGGCTCTCTCAAAGGTCTCACC
691393	Oxa1l	5'-[AminoC6]AGAAAAAGCATGACATTAATTTCTTCAGGCCGCTCATCTACCTCTCACT
690163	Oxct1	5'-[AminoC6]ACACTTCTTATAGATACCTGAGACGGCAAACAGGAGCATCCCTGAGAAAA
117520	Oxr1	5'-[AminoC6]TTCCTGTAAAACGTTTGGGAATCATACTGTCTAAGAAGGAAGACTTCT
25506	P4hb	5'-[AminoC6]AACGTGTTTGTGTAATTCTATGCTCCCTGGTGTGGTCACTGCAAGCAGCT
29704	Pacsin1	5'-[AminoC6]GATGCCTACCACAAGCAGATCATGGGCGGCTTCAAGGAGACGAAGGAGGC
124461	Pacsin2	5'-[AminoC6]CCAACAGCGAGCCAGGTCCCTCCACCCTCCAGCTCTCTATCATGGATCT
311187	Pacsin3	5'-[AminoC6]GCTACATGGAGGACATGGAGCAGGCCTTCGAGAGCTGTGAGGCTGCTGAG
314417	Papola	5'-[AminoC6]ATTAAGAAGTATATATTCCTTTTATTTATAGAGTTGTTTTATAGTGCATA
25104	PC	5'-[AminoC6]GGAGGTGACCCAGAGGACGTTCTCTCTGCAGCCATGTACCCGTGATGTCT
687008	Pcca	5'-[AminoC6]CTGTCTCAGTACCAAGAGCCTATACATCTACCTGGTGTCCGAGTTGACAG
24624	Pccb	5'-[AminoC6]ACATTAATTCATCTGTGAAGGGGCTCGCTTTGTGAGATTCTGTGATGCT
361042	Pck2	5'-[AminoC6]CAACTCCGGGCCATCAACCCGAGAATGGCTTCTTCGGGGTGGCCCTGG
292814	Pdcd5	5'-[AminoC6]CCAACAGGAAGCAAACAAGGGAAGCAGAAATGAGAAACAGTATCTTAG
81529	Pde1a	5'-[AminoC6]GCGACATTCAGACCGACTCGGTTCTTTCGGAAGTCCGGGACTGGTTGGCT
29554	Pdha1	5'-[AminoC6]CCAGTGGATCAAGTTTAAAGTCAAGTCAAGTAAATGGGAGAGTATTAGATGGA
311254	Pdhx	5'-[AminoC6]TTCACTAAAGAGTATGAACCTTAGCCCAATAAAGGTACAACAGAGACTGGT
287164	Pdia2	5'-[AminoC6]CAAGACAGCTGAGGGCATTGCTGAGTGGCTGAGGCGGCGAGTGGGGCCA
29468	Pdia3	5'-[AminoC6]CTTTAGCCATGAATTGTCTGACTTTGGCTTAGAAAGCACTACTGGAGAGA
116551	Pdk1	5'-[AminoC6]CACATTGGAAGCATAAATCCAAACTGTGATGTAGTCGAGGTTATTAAGA
81530	Pdk2	5'-[AminoC6]CCACCATGGCACAGGGAGTGTGGAGTACAAGGACACCTATGGTGATGAC
296849	Pdk3	5'-[AminoC6]GATGCATCAAAATACAAGGCTAAACAGGACAAGATCAAGAGTAATAAAAC
89813	Pdk4	5'-[AminoC6]TCTTTTTCTTTTCTTCGGCAAGAATTGCCCGTCAGACTTGCCAAACATCCT

54705	Pdp1	5'-[AminoC6]ACTGCTGAGCCAGAGGTAACCTATCACCGATTAAGGCCACAGGATAAAATT
246311	Pdp2	5'-[AminoC6]AATGGAGTAAAGAGTTGCAGCGGAACGTCCTAGAGAGGGGATTTGATACC
307852	Pdpr	5'-[AminoC6]GCAGGGATGAACTCTGCTGGCCTGTGCTGGGCGGAGGAGCTGGAAAGCT
291075	Peci	5'-[AminoC6]GGAAAGGGTGGAGCTGATGGGAAAGCCCAGGAGTCCAAGGGCATCCTGGT
25511	Pemt	5'-[AminoC6]GCAAGCTGAGCAGAGCCTTCGGGTCCCCTTACCTAGCCTGCTATTCCCTG
29237	Penk	5'-[AminoC6]CCCTGGGACAGCGGAAACACTAGGGACCAAGCTATCCCTGGTTCACTCG
287422	Per1	5'-[AminoC6]TGCTGTGCACTCCTGGGTCCGGAAGGGCCAGCTGCCTCAGGCCCTCGATG
63840	Per2	5'-[AminoC6]TCCTGTGGTGGCCAGCATTCCAGTCGGACCTGGCTTCAGTTCATCAACAG
78962	Per3	5'-[AminoC6]ACCCCTTCAGACCACGGCCCAAGGAGAGTGGAGGAGAACTGGGAGACACA
361974	Pet112l	5'-[AminoC6]AACTGGGCTAGGAGACAGAGTTCAGTGGCTCAGCCTTCCCTCCACACGGC
361310	Pfdn1	5'-[AminoC6]CTTGACAGGTGACACATGGGCCTCCCTGTAGAGCATAGAAGAAGGAAGAC
25741	Pfkl	5'-[AminoC6]CAACGCTGCAATGGAGAGTTGTGACCGCATCAAACAATCGGCCTCGGGGA
65152	Pfkm	5'-[AminoC6]TGGAACAGATCAGTGCCAACATAACCAAGTATAACATCCAGGGCCTGGTT
64303	Pfn1	5'-[AminoC6]CGTTCCCAGTACTGACCTCATCTGTCCCTTCCCCACCGCTCCCTTTGGC
316265	Pgk2	5'-[AminoC6]CTTCACTGTCCAACTCGGTGATGTCTACGTCAACGATGCTTTTGGCACT
84387	Pglyrp1	5'-[AminoC6]TATCGGCATCACCTTCATGGGTGACTACTCACACCGGGTACCTGCAAAGC
24645	Pgm1	5'-[AminoC6]GGGTTCTTTGTGAACCCCTTCTGACTCTGTGGCTGTATCGCCGCCAACAT
25344	Phb	5'-[AminoC6]ACAGAGCGGTGGAAGCCAAACAGGTGGCTCAGCAGGAAGCAGAGAGAGC
114766	Phb2	5'-[AminoC6]CCAATGCCAGGAGCTCCCCAGCATGTACCAGCGCTAGGCCTAGACTAT
59265	Phlpp1	5'-[AminoC6]GTTCAAGCAACGGCAGCCGGGTGGAGGTGGAAGTGGACATCCATTCAGCC
84591	Pick1	5'-[AminoC6]GAATCTCCTACGGGCCTTTTATGAGCTGTCACAGACTCACCGGGCTTTTG
294048	Pik3ap1	5'-[AminoC6]CCAACAGGCCCCCTGTCCCCGTGCCAGGCCAGAGACCAGCACTCCTGGC
361632	Pik3c2a	5'-[AminoC6]ACTACTAAGTAGTCTACAGAAGTAGGAAAAATACTATTTTTTATTCATTG
289021	Pik3c2b	5'-[AminoC6]ATGTCTTTCTCTGCCGACATGAGAAGGTCTTCCACCCTAGCAAGGGCTAT
116720	Pik3c2g	5'-[AminoC6]TGCCCAAAAAGTCTTCGAGCAGTTTTTACAGACTTCACAGCCAGATTAG
65052	Pik3c3	5'-[AminoC6]TTAGCCACGAGTACAAAACATGGCTTCATGCAGTTCATCCAGTCAGTTCC
85243	Pik3cb	5'-[AminoC6]AGTGATGAAGAACTCTCTCAGTATCTTTTACAGTTGGTGCAAGTTTGGAA
298947	Pik3cg	5'-[AminoC6]GATCAGATTGAAGTCTGCAGGGACAAAGGATGGACTGTGCAGTTAACTG
305472	Pik3ip1	5'-[AminoC6]AGGGCGAGGCTGGGGAGGGTCTATCAATGCTCCTTTTCTATCCCTTAGA
25513	Pik3r1	5'-[AminoC6]GAATATAATACTCAATTTCAAGAAAAAAGTCGGGAATATGATAGATTATA
29741	Pik3r2	5'-[AminoC6]CGGGAGAGCAGCCAGCGGGGCTGTTACGCATGCTCTGTGGTGGTGGATGG
60664	Pik3r3	5'-[AminoC6]AAGGAGATTGAGCGGATTATGATGAATTACGATAAAATTGAAATCCCGTCT
363131	Pik3r4	5'-[AminoC6]TGCTGTCCAGCTTCTTGAATTGAGGCTTCTAAGTTACCCAAGTCTCCTA
497931	Pik3r5	5'-[AminoC6]TGCAGACCTTGGCAAGGCCCATGGGAGGACAGTACCAATGACATCTCTC
497932	Pik3r6	5'-[AminoC6]TGACCCTTGGTATGAAAGCACTGTCAACACCCTGTGTCTGCCATCCTCA
298575	Pink1	5'-[AminoC6]ACTGCCCCAGCACCTGGAGAAGGCCAAACACCTTGGCCTTCTAGGAAAAG
307081	Pitrm1	5'-[AminoC6]AGCAGATGCCTCAGGCAGAGAAAAGAGGTGGAAAACCTCCTTAGAAAACGTC
29355	Pkn1	5'-[AminoC6]GTGCTGTGTCTGAATTCCACTCCAGTGGGGAGCTCTTGGCCATTAAGC
207122	Pkn2	5'-[AminoC6]TCCCTCAGTTCAGTAATATCATTTGATAACACTGTGCTTAGCATGTTAGGG
29526	Pla2g1b	5'-[AminoC6]GGTCCCCACAACAAGGAATACAAAGACCTTGACACCAAGAAACACTGTT
29692	Pla2g2a	5'-[AminoC6]AAACGTGGATGTGGCACAAAGTTTGTGACCTACAAGTTCTCCTACCGAGG
24653	Pla2g4a	5'-[AminoC6]GAGAGGTGTGGATCTCATATTTCTTTGACTTTTCTGCAAGGCCAAGTG
292645	Pla2g4c	5'-[AminoC6]TACTGTGGAGGAGAACGGACTCTGAACCCACGGCTCACTCTCAGCTGTG
691810	Pla2g4c	5'-[AminoC6]TCAAAATTCCTGGTTGAATTCACTCCTCATCATGCTGGATATCCTGCAC
24654	Plcb1	5'-[AminoC6]TAAAGACAAAGATCACTGCCCGGGCCATCTTCTGAGAAACATCCCTTAG
85240	Plcb2	5'-[AminoC6]TTCATTTTTGAGAAGATCTTGGTGCCTGAGCTGGCCTCCCTCAGGATAGC
29322	Plcb3	5'-[AminoC6]CTGGCCTCACTTCGCATTGCAGCCTTTGAGGAGGGTGGCAGATTTGTTGG

25031	Plcb4	5' - [AminoC6] AGGAAAATTAGTGCATTAGTACTTTAATGGCAAGCGCATGCACTAGACGA
24655	Plcd1	5' - [AminoC6] ACAGATTCTCCAACTACAGTCTGTGGAGATGTGGAACGGGGGCTGCCA
287745	Plcd3	5' - [AminoC6] CTGGTGGCTCTGAACTTTTCAGACTCCTGGCTATGAGATGGACCTCAACAC
140693	Plcd4	5' - [AminoC6] GATGGCTTCCTCAGCTACCTCTGCTCAGCGGATGGAAACATCTTCAACCC
114633	Plce1	5' - [AminoC6] ATTCAGCAGACCTTGTGCAAAGCCAAATATTCCTACAGCATCTGAACAA
25738	Plcg1	5' - [AminoC6] TAGACAAAACCAAGCCATTAATGAGATGTACTGTTTTGGGCCTCATGCC
29337	Plcg2	5' - [AminoC6] AGCAAAACCAAGGACCATTTGGAAAATCCTGACTTCCGGGAAATTCGCTC
310463	Plch1	5' - [AminoC6] CAGAGGAGGAGTGGTCCTTAGAAGTAAACCGCCAGCTCCTACTCTGGCTG
313756	Plch2	5' - [AminoC6] CCCCTGCCCGGCCCTCCGTTAGCCAGAGGCTCCTGCGGCGCACAGCCAG
304575	Plcxd1	5' - [AminoC6] ACACGCTGTGTCCAGCGGGGAAAGTCCCCACCCTGGGGCAGCTGTGGGCG
363781	Plcxd2	5' - [AminoC6] TGTGGGCCCTGGTGGGCTTCTCTAGAGTGAACAGTAGACATTGAAAG
497197	Plcz1	5' - [AminoC6] GAAGAAATCTATGAAAATGAAGACGAAGACTCAGGAAAGGAGCCAGAAAC
64672	Pln	5' - [AminoC6] TCTCTTGACTACTTAAAAAAGACTTGTCTTCTACTTTTTGTCTTCTGGC
302562	Plp2	5' - [AminoC6] TGTTGTCTTGTAGAAGGACGAGGCAGCTCCAAAATCGTCGCTGGGGTAC
24659	Pmch	5' - [AminoC6] GCTTCATGAAGGATGACGATGACAAGACCACAAAGAACACAGGCTCCAAG
688790	Pmp2	5' - [AminoC6] CACCTGGAAACTTGTCTCCAGCGAGCACTTCGATGACTACATGAAGGCTC
296588	Pmpca	5' - [AminoC6] CTGAACATGAGACCTGACCCAGAGCCACTGCTCACCGAGATGATTCATGA
64198	Pmpcb	5' - [AminoC6] AGATTTGCCAAGAGCTGTAGAAAATCTTGTCTGACATAATTCAGAACAGTA
360992	Pnpt1	5' - [AminoC6] AGGCAAGAGACTTCATTACAGAAAATTTGCAGAGATGATCAAGAGCAACAA
303612	Polg2	5' - [AminoC6] CTGCCTGGATCTGTTAAACAGAAAGCTACCTTACGCCTTGCTCAGATTG
300088	Polr3h	5' - [AminoC6] ATGGGTCCCAGGGCTTGTGTACACCATGCAAGTATTCTACCAACCATGCT
299604	Polrmt	5' - [AminoC6] AATGGCTTCCCACCAACTTCATCCACTCCCTGGATTCTCCACATGAT
24664	Pomc	5' - [AminoC6] CGGGCTGCAGACTCGACCTCTCGGCGGAGACGCCGTGTTTCCAGGCAA
310856	Ppa2	5' - [AminoC6] CCTTTCATGACATTCCTCTGAAGGCAGACTGTGAAGAGGAACATGGCAT
25747	Ppara	5' - [AminoC6] CAATGCAATCCGTTTTGGAAGAATGCCAAGATCTGAGAAAGCAAACTGA
25682	Ppard	5' - [AminoC6] GCCAACGGCAGTGGCTTCGTCACCCATGAGTTCTTGCAGTATCCGCAA
25664	Pparg	5' - [AminoC6] AAAAAGAGTAGAAATAAATGTCAGTACTGTTCGGTTTCAGAAGTGCCCTGC
83516	Ppargc1a	5' - [AminoC6] AGCACTTCGGTCAATCCAGTCAAGCTGTTTTGACGACAAAGTAGACAAG
64367	Ppib	5' - [AminoC6] GATAAGAAGAAGGGACCTAAAGTCACAGTCAAGGTATACTTTGATTTCCA
291463	Ppic	5' - [AminoC6] CTGGAGGTATGAGCATTTATGGTGAACATTTCTGATGAGAACTTCAAA
361967	Ppid	5' - [AminoC6] GCGCCTGCAGTGAAGATGTCCACCCATCCCCAGCAGGCAAGCCCTCCAA
282819	Ppif	5' - [AminoC6] GCTCCACCTTCCACAGGGTCAATCCAGCCTTCATGTGCCAGGCTGGCGAC
83624	Ppig	5' - [AminoC6] GCTGTTTTAGTTCGTGTGGTGATTGAGCTTGAGTTGCTGTTATACAGCA
289219	Ppox	5' - [AminoC6] TATGTAGGCGGTGCCCTGCACCCCTACCCTCTGGCTCAGGGGGCTACT
24672	Ppp2ca	5' - [AminoC6] ACATTCAAACTGTTTTCCACACGGACCAAAAGATGTGCCATATAAAAATAC
117281	Ppp2r1a	5' - [AminoC6] CATGCCACTATCATCCCCAAGGTCTTAGCCATGTCTGGAGACCCTAACATA
315648	Ppp2r1b	5' - [AminoC6] GTGACTTGACTCTTTCTAAACATGAACTCAGACTGGTTTTACCTCTCTGG
294007	Pprc1	5' - [AminoC6] AGAGATGGGCTCTCGATGGAATGTCAAGCGCCATCAGGACATCACTATCA
117254	Prdx1	5' - [AminoC6] TCAGCCTAAGTGATTACAAAGGAAAATATGTTGTATTCTTTTTTTACCCT
29338	Prdx2	5' - [AminoC6] CCACTGAATATCCCTCTGCTTGCTGATGTGACTAAAAGCTTGTCCCAGAA
64371	Prdx3	5' - [AminoC6] GTTCTTCATTCCACACCCCTGCTGTCAACCAGCATGCGCCCCATTTTAAA
113898	Prdx5	5' - [AminoC6] GCTGTCAAGGACAAGAAAGGTGTTTTGTTTGGAGTCCCTGGGGCATTTA
50669	Prf1	5' - [AminoC6] TCGGTGCCCAAGCCAGTGTCTCAAGCGAATACAAAGCTTGCAGGAGAAG
83803	Prkab1	5' - [AminoC6] TCCGGAGCCCAACCACGTCATGCTGAACCACCTCTATGCACTCTCTATCA
25636	Prkaca	5' - [AminoC6] GCGTGTGAAAGGCCGAACTTGGACCTTGTGTGGGACCCCGAGTACTTGG
293508	Prkacb	5' - [AminoC6] TTAAGCTAAAGCAAAATAGAGCACACTCTGAATGAGAAGAGAATCCTGCAG
29699	Prkar2a	5' - [AminoC6] TGGGCCCTGCATGGACATCATGAAGAGGAACATCTCACATTACGAAGAA

24679	Prkar2b	5'-[AminoC6]TCTGTGGTCCCCTGCCCTTCCTGTCCCTGAGCACCAGCCAGCGAGCACAT
24680	Prkca	5'-[AminoC6]ACACGAGGGCAGCCTGTCTTAACACCACCAGATCAGCTGGTCATCGCTAA
25023	Prkcb	5'-[AminoC6]GCATGTGTAAAGAGAATATCTGGGATGGGGTGACAACCAAGACATTCTGT
170538	Prkcd	5'-[AminoC6]TGCTGACTTCGGGATGTGCAAAGAGAATATATTTGGGGAGAACC GGCCCA
85332	Prkcdbp	5'-[AminoC6]GCTTCAAATAGAGAGCGCAGCCTGATCCCTGGGGTGCCCTGCCCCATTCA
29340	Prkce	5'-[AminoC6]TCTATGTGTGAAGGTCTTAAAGAAGGACGTCATCCTGCAGGATGACGAC
24681	Prkcg	5'-[AminoC6]TGCACCCCTGTGGAGAAGCGTGTGCTGGCATTGGGAGGCCGAGGTCCTGG
81749	Prkch	5'-[AminoC6]AAACAGGCTTCTTGTTTTTAACTTCAAGAGACAAATCTAGACTTTCCGTG
84006	Prkci	5'-[AminoC6]AGGACAGACCAGCTCCACAGGCTGGCACCCGTGGCACGCACGAGGCCCT
85420	Prkcq	5'-[AminoC6]CGCCAGCATCCTTTGTTTTCGAGAGATCAACTGGGAAGAGCTTGAGAGAAA
300445	Prkcsb	5'-[AminoC6]ACTGTCCGAGGAGGAGGCCAGGCTCTTCTCAGTGGAGACACACAGACTG
25522	Prkcz	5'-[AminoC6]TGACATGAATACTGAAGACTACCTTTTCCAAGTTATCCTGGAAAAGCCAA
85421	Prkd1	5'-[AminoC6]GAGGTTCTGAGGAACAAGGGCTATAACCCTCGCTAGACATGTGGTCTGT
313834	Prkd3	5'-[AminoC6]ACACTTCAGCTCCAGAGCCAGCCGTTTTGTAGTAGTTATTAATACAGGTT
54286	Prkg1	5'-[AminoC6]TTGTATGTACCCCGTGAATATGGGAAGGACAGCTGCATCATCAAGGAAG
25523	Prkg2	5'-[AminoC6]CTGTGAAAGCTATTACCAATGTAAAACCTGGGCTCTCGATAGAGAGGTT
24283	Prl3b1	5'-[AminoC6]AACCTTATGTTAAGTCCTTGCCACACAGCTGCTATCCCTACTCCAGAAAA
499420	Prmt2	5'-[AminoC6]GGAGGGCCAGCCTCAGCAGGTTCTCAGCACAGGACCCTGCACCCACCA
680409	Prodh	5'-[AminoC6]AGCAGAGCTACTTCCAGCCGCCATCAACCGCCTGACCCTGGAGATGCAG
192206	Prok2	5'-[AminoC6]CTCACACCGCCCGCCGGGATGCCGCGTTCATCACGGGGCTTGCGACAA
192649	Prokr2	5'-[AminoC6]AAATCGTCATTGGCGTAGCCCTGGCAGGCATCATGCTAGTCTGCGGCGTT
366276	Prpf6	5'-[AminoC6]CTGACAGTTGTGTGGCCACAATGCCCTGGAGTGTGCACGAGCCATATAT
25052	Prss2	5'-[AminoC6]GATCGTTGGAGGATACACCTGCCAAGAGAATTTCTGTTCCCTACCAAGTGT
25524	Psap	5'-[AminoC6]GGACGTCCTCATGCATGAGGTGAACCCGAACTTTCTGTGCGGTGTGATCA
29192	Psen1	5'-[AminoC6]CCATCAAGTCAGTCAGCTTCTACACCCGGAAGGATGGGCAGCTAATCTAT
29674	Psm7	5'-[AminoC6]GTGCTCTGGACGATAATGTCTGCATGGCCTTTGCAGGTCTCACTGCCGAT
287984	Psm2	5'-[AminoC6]AGATGTCACTTCGACCATTCTTCAGACCATCATGGAGAAATCTGAGACTG
29630	Psm1	5'-[AminoC6]TGCCACCCAGGCTCCGCGTGGCGGCTTCAGCCCCGGCTCTGGCCATG
691380	Psrc1	5'-[AminoC6]CACCCACTTGCAATCTGTTCTCTGCATCCAAAAACCCAGGGCGTTCTCCT
25526	Ptgs	5'-[AminoC6]AGAGCTACTGTTTATGTGCCAGACAGTGGTAGCTCCCTCCACAGAAGGCG
311865	Ptgs2	5'-[AminoC6]TCATCAGCAAGCGCCTCAAAAGCAGGCACCACCTGCAGGATGATGTCCGG
29527	Ptgs2	5'-[AminoC6]AGACATGATCTACCTCCCCAGTCCCTGAGCACCTGCGGTTGCTGTGG
50646	Ptk2b	5'-[AminoC6]GCTACACGGAGTTCACAGGGCCCCCAGAAGCCACCACGGCTCGGTGCA
29390	Ptpmt1	5'-[AminoC6]ACGGCCCTCCCTGAGGTCAGGGGTTGGAGAGCAGGCCCTGCCTTAGG
287710	Ptrf	5'-[AminoC6]CCGCAACTTCAAAGTCATGATCTACCAGGATGAAGTCAAGCTGCCGGCCA
304567	Pus1	5'-[AminoC6]ATTGATGACATCCTGGACAAGATCAACAGCCACCTTCCATCCATATTCG
287877	Pycr1	5'-[AminoC6]TGTGCGGAGGTGTACCATCAACTCCATTGAAAAGAACTGACAGCGTT
364064	Pycr2	5'-[AminoC6]AGAGAGCTGCAGTCCATGGCTGACCAAGAAAAGGTGTCCCTGCCGCCCT
290868	Qars	5'-[AminoC6]GTGATGGAAGATGGAAAGATGGACCCTGTGGCCTATCGAGTCAAGTATAC
81754	Rab1	5'-[AminoC6]TCATGACCATGGCAGCGGAGATTA AAAAGCGGATGGGTCTGGAGCAACA
50993	Rab10	5'-[AminoC6]AACAGTGAAAACGTAGATATCAGCAGTGGAGGAGGTGTGACGGGCTGGAA
81830	Rab11a	5'-[AminoC6]TGCCTGGTAGTCTAGTAGACTTCTGTCTGAGGTGTCTCTGTTGCAGTGAT
79434	Rab11b	5'-[AminoC6]GGTGTAGGTAAGAGCAACCTGCTGTACGCTTCACCAGAAACGAGTTCAA
25530	Rab12	5'-[AminoC6]TCTCTACAACCAGAGCCTGAGATCCACCAGAGCTGCCTCCACCAGACC
81756	Rab13	5'-[AminoC6]AGAGGACAACTTCAACAGCACTTACATCTCCACCATCGGAATTGATTTCA
94197	Rab14	5'-[AminoC6]TTCAGAGCTGTTACACGGAGCTACTATAGAGGAGCTGCAGGTGCGCTCAT
299156	Rab15	5'-[AminoC6]CCTGCTGTGACCCAGAATGTGCTTCGACCATCTCACCACCCAGGCTCC

503269	Rab17	5'-[AminoC6]ACCTGAATGCTCTGAGCCAAGTGTGCCTGCCCCGCCTGGGCTGTCCCTTT
307039	Rab18	5'-[AminoC6]TTGAAATTTGCACGCAAGCATTCTATGTTGTTTCATAGAGGCAAGTGCAAA
500088	Rab19	5'-[AminoC6]ACAGTGAGTCACAGCAGAACCATTGGGGTGGACTTCACAGTGCGCTCC
100126191	Rab1b	5'-[AminoC6]ACTATCGGGGTGCTCATGGCATCATTGTGGTGTATGACGTCACTGACCAG
689377	Rab20	5'-[AminoC6]GCTGTGCCTAATGGCAGGAGGTCTGTCTGTGCATGTGCTATGTGTGGGAG
299799	Rab21	5'-[AminoC6]GTGCTGCTCGGAGAAGGCTGCGTGGGGAAGACGTCGCTGGTGTGCGCTA
366265	Rab22a	5'-[AminoC6]TGCCGAGACAAGGTTCCCTTAGATGTGCTGCAAAGGGCGGGTGGATAGAGC
367242	Rab23	5'-[AminoC6]ATTCAAGTTAATGATGAAGACGTGAGGCTAATGCTGTGGGACACTGCAGG
361208	Rab24	5'-[AminoC6]CTTCAAGAGTGTGAGATGCCCCAGGCGCATAGCCTAATAAACGTGTGGA
310632	Rab25	5'-[AminoC6]GGTGCAGGTCTTTCAAGAGCTGAGAGTGGAGGCCATTTAACCTATAAACA
171111	Rab26	5'-[AminoC6]AAATTAGCCAAGGAGTATGGGCTGCCATTCATGGAGACCAGCGCCAAGAG
50645	Rab27a	5'-[AminoC6]ACTGACTCAACATCCAATTGTAACCTATTGCAACTTCATATGATTTAGTC
84590	Rab27b	5'-[AminoC6]GGCTTCTTACTAATGTTTGACCTCACCAGTCAACAGAGTTTCTTGAATGT
117049	Rab28	5'-[AminoC6]GGTATATGATATTACAAACTACCAAAGCTTTGAGAATTTGGAAGATTGGT
65158	Rab2a	5'-[AminoC6]TGGTAAATCGTGCTTATTGCTACAGTTTACAGACAAGAGGTTTCAGCCGG
305853	Rab2b	5'-[AminoC6]TGGTCAACATCGATGGAAAGCAAATCAAAGTCAAACTCTGGGATACGGCT
308821	Rab30	5'-[AminoC6]TACCGAAGCGCCAATGCCTTGATCCTTACCTATGACATCACCTGTGAGGA
246324	Rab31	5'-[AminoC6]AGTCGGTGCCAAGTCCCAGTCACAGACGGTGTGTCAACTTCGGGATGC
365042	Rab32	5'-[AminoC6]TTGGTGATCCTGACATCTTGAGTGTCTTTTTCCTGTATACATCCTCACC
317580	Rab33a	5'-[AminoC6]GTGGATCAAGGAGATTGATGAGCATGCACCTGGTGTTCGCCGGATCCTGG
365793	Rab33b	5'-[AminoC6]GGCTGGGCATGAGAGCCCCCTGTCACCAGGACTGGTCCAATACATTTTCCT
360571	Rab34	5'-[AminoC6]ATTTGAAGTCTTGGGTGTCCCCTTCAGTCTCCAACCTTTGGGACACTGCTG
288700	Rab35	5'-[AminoC6]ATGTGGAAGAGATGTTCAACTGCATCACAGAGCTGGTTCTACGGGCAAAG
690407	Rab36	5'-[AminoC6]GCAGACTCTGGAGCATAACCAAGCAGTGGCTGCAGGATGTGCTGAGGGAGA
252916	Rab38	5'-[AminoC6]GGCCACCATTGGTGTGGACTTCGCGCTGAAGGTGCTCCACTGGGACCCAG
315668	Rab39	5'-[AminoC6]TCCCCCGCGGGGTGCTGAGCCCTCAGCAACTCGAAGCGCTCACGTACAT
25531	Rab3a	5'-[AminoC6]CAAACCATCTACCGAATGACAAGAGGATCAAGCTGCAGATCTGGGACA
81755	Rab3b	5'-[AminoC6]CTGACCAGAACTTTGACTACATGTTCAAAGTGCATCATTTGGCAACAGC
171058	Rab3c	5'-[AminoC6]GAAAGACTCTTCTGACCAGAACTTCGACTACATGTTCAGTTGCTGATCA
140665	Rab3d	5'-[AminoC6]AGGTGTGTGATCTACTCCTCTGTTGTTGGCTGAAGATGTCACCTGGTGTG
303754	Rab40b	5'-[AminoC6]GGCCGAAGGGTGAAGTGCAGCTTTGGGACACCTCCGGGCAAGGGAGATT
359728	Rab40c	5'-[AminoC6]ACAATGTTAGAAGGAGATATTCTGGATGCCAGTACCTGAGGAGAGCGTG
500249	Rab43	5'-[AminoC6]AGGGCAAGCGGGTCAAGCTCCAGATTTGGGACACAGCCGGCCAGGAGCGG
25532	Rab4a	5'-[AminoC6]AGCCGAGAAACCTACAATGCGCTTACTAATGGTTAACAGATGCCAGAAT
50866	Rab4b	5'-[AminoC6]TTGGCAGTGCCGGAAGTGGCAAATCATGTCTCCTCCATCAGTTTATTGAG
64633	Rab5a	5'-[AminoC6]AAGTCTGGTGTCTCGCTTTGTGAAAGGCCAATTTTCATGAGTTTCAAGAGA
288779	Rab5b	5'-[AminoC6]AGGTAGGAGTGAGATCGGGGAGGTGAGCTCGCAGGCACTGAATGGAGTTT
287709	Rab5c	5'-[AminoC6]TTACAGAGGCAGGCCAGCCCCAACATCGTCATTGCACTAGCGGGTAACAA
84379	Rab6a	5'-[AminoC6]GAGCAGTGTGTTACAGCAGCATTTGCCTACCTTCTTGTGTCTCCCAGC
363123	Rab6b	5'-[AminoC6]TTTCCTTCCCTAAAGGCAGTTAAAGCAGCCAGGCCTTAACACAGAACAGT
29448	Rab7a	5'-[AminoC6]CCATGCAGATCTGGGACACAGCTGGTCAAGAACGGTTCCAGTCTCTGGT
117103	Rab8a	5'-[AminoC6]CTATGGGATCAAGTTCATGGAGACCAGCGGAAGGCCAACATCAATGTGG
266688	Rab8b	5'-[AminoC6]CGACTCCGGCGTTGGCAAGACCTGCCTCCTGTTCCGCTTCTCAGAGGACG
84589	Rab9a	5'-[AminoC6]ACCATGCAGATTTGGGACACAGCTGGTCAAGAACGATTCCGAAGCCTGAG
367915	RAB9B	5'-[AminoC6]AAAGGTCATCCTCTTGGGTGATGGCGGAGTTGGGAAAAGCTCACTTATGA
366957	Rac2	5'-[AminoC6]TGCAGGCCAGGAGGACTATGACCCGCTCCGGCCACTCTCCTACCCACAGA
310034	Rad17	5'-[AminoC6]CCTTACATAAGCCCCAATGGTTTCTAATACAGAAAAGTATCGGGAAAAT

24703	Raf1	5' - [AminoC6] CTGGAGTGGTTCTCAGCAGGTTGAACAGCCCACTGGCTCTGTGCTGTGGA
84509	Ran	5' - [AminoC6] ACTTGACGGGCGAGTTTGAGAAGAAGTATGTAGCCACCCTGGGCGTGGAG
295347	Rap1a	5' - [AminoC6] GCAAGTTAGAACACAAAAGTGATGCGTGACTTGACTATGAGCAGTATATA
171337	Rap1b	5' - [AminoC6] TACTGCAGGAACGGAGCAGTTTACAGCCATGAGAGATCTGTACATGAAGA
170923	Rap2b	5' - [AminoC6] TGGGCAAGTCCGCGCTCACCGTGCAGTTCGTAACAGGTTCCCTTCATCGAG
303569	Rap2ip	5' - [AminoC6] GCTGAAGGACCTGGAGGCGGAGAACCGGCGCTGCAGCTGCAGCTGGAGG
29372	RASA3	5' - [AminoC6] TTTCCAGCTGACGCCCCACCATACGGATCCACAGACTTCTAGAACCCTGA
64455	Rasd1	5' - [AminoC6] AGAGCGCCAGCTGGCCTCCTCCCTCCCTCCCTGAGACCCAGCCCTGTGCA
171099	Rasd2	5' - [AminoC6] GGTTCCTTTGTGGGAGGACAGAGATGTGTCTGGGGGTATGTGAGCACTCA
360519	Rasgef1c	5' - [AminoC6] GTTCAACAGACTATGCTACCTGGTAGCCACAGAAATCTGCATGCCAGCCA
192213	Rasgrf1	5' - [AminoC6] TCGTGTCCCTGGGACTGCTGGCCAGAGAGACGGCACGCGCAAAGGCTAC
114513	Rasgrf2	5' - [AminoC6] CCCAGTGAGGGCCAGAAAGCTGTCTTTGACATCTTCCCTGAACTCAAGGA
29434	Rasgrp1	5' - [AminoC6] AACAGTGCAAAGACCTGGTAGTGTGTTGAGTGCAAGAAACGATCCAAGAGC
361714	Rasgrp2	5' - [AminoC6] ACGTTGATGGGGACGGTCACATCTCCCAGGAGAGTTCCAGATCATCCGG
313874	Rasgrp3	5' - [AminoC6] AAGGAATGTTTGTAGTGTCTACCACACAGTGGCTGTGCTGGGCAATGTC
170668	Rasgrp4	5' - [AminoC6] CCTACTACCGCCGCACCTGGGCCAGCTGCAGTACTTCCGGCTGCCAGTA
363140	Rassf1	5' - [AminoC6] TCGGTCCAGGCCGTACCCGGCTGGAGCGTGCCAACGCTCTGCGCATCGCG
362423	Rassf4	5' - [AminoC6] GCCACAAGTCCCTGCCCTTATCATCCATGTGAACCATGAACCCTGGTCT
54355	Rassf5	5' - [AminoC6] CTAATTCAAACTTAAAACAAATTAGCCAGACTATACCACCCAGTAGCCAG
60383	Rbck1	5' - [AminoC6] GAGAGGGAGATCCGGGCGCTCCTGTCCCCTGAGGACTACCAGCGTTTCCT
361504	Rdh13	5' - [AminoC6] ATCAACTTGGGGAGGAAAAGGGCTTATTTAACTTACAGGTTATAGTTTAC
290227	Rec8	5' - [AminoC6] TGCTTCGCCACTATCTGGCTGGCCGCTACCCGGGGCAGCCGTTTGGTGAA
300689	Rexo2	5' - [AminoC6] AGAGCCTGGCTCTCAGAAGCCACTTTAGCGTCTCTCTCTCTCTCCCCGC
289080	Rgl1	5' - [AminoC6] CACGCATGCACACACGCACACGCACGCACACACACGCACATACGTG
117273	Rhoa	5' - [AminoC6] TGTGCCACGGTGTGTTGAAAATATGTGGCAGATATTGAAGTGGACGGGA
295342	Rhoc	5' - [AminoC6] AAGCACTTCTGTCCCAATGTGCCATCATCCTAGTGGGGAATAAGAAGGA
303351	Rhot1	5' - [AminoC6] TACGCTGTATGTGCACCTGCAACAGGTGTACATTTTGCATCTGTGAGAAC
287156	Rhot2	5' - [AminoC6] AGTCCCCACTGAGGCTGGCTGTCTGTCTTGCCTGGATATCTCTGCCAGT
306886	Ripk1	5' - [AminoC6] CTGCTTCTTGTGCCTTTGGGAAGCCATATGCAACCTAAAAGTGAGTGAA
359726	Rnasel	5' - [AminoC6] TGATGGACCTGCTTGGCCATCCTTTCTTTTGGACTTGGGAGAACCCTAT
295588	Rnd3	5' - [AminoC6] GCCAAAGTCACATGGACACAAGGCGTAGGAGTCCCTTGAAAAAAAAGTG
362550	Ror1	5' - [AminoC6] TGCCCCCTGAGGCGATCATGTACGGCAAATCTCCTCAGATTCTGATATC
25596	Rpn1	5' - [AminoC6] ATTTTGATGACTCCGTGGAAATGGAAATCCGGCCTCGATTTGGTCTCTT
64701	Rpn2	5' - [AminoC6] ATCTCCACTGAAGTTGGCATCACCAATGCTGATCTTCCACTGTGGACAA
289342	Rps6kc1	5' - [AminoC6] GCCTGGGTGCTGTCTCTTTCGAACTTCTCACTGGCAAGACATTTGGTGGAA
83521	Rrad	5' - [AminoC6] GTGCATGCTGCTGGGGCGCCTGGTGTGGCAAGAGTGTCTGCGCGCAT
117043	RragB	5' - [AminoC6] TGTTTGAGAGAGCTACCTTTCTGGTGATTTCTCAGTATCAGTGTAAAGAA
365355	Rras2	5' - [AminoC6] AAGGTACGTTATATGGAGGCGTCGGCAAAGATCAGGATGAATGTAGATCA
304714	Rrn3	5' - [AminoC6] TTATTGCAAGTACAGCTGGTGGAGACTCTGTGCAGACCTGCACCAACCCA
25271	Rxra	5' - [AminoC6] AATATGTCATCCTTACCAAGCACATCTGCGCTATCTGTGGGGACCGCTC
445415	S100a11	5' - [AminoC6] AGCTGTCATCTCTCCAAAAGTGGAGTTCCCTTTCCCTCATGAACACGGAGCT
300111	Samm50	5' - [AminoC6] TCATCTATCTTGCCAAGAAGAGGGGCCCTTGCTCAAAGTCAACCAGGAGCT
114123	Sardh	5' - [AminoC6] GGATTGTTCTGAAGATCTGGGCATGCTCAGTATCCAGGGCCAGCCAGCC
292759	Sars2	5' - [AminoC6] TTTCTCCAAGCTGCGAAGGATCCGTCTGCAGTTGCAAGCACTTTGTTGC
302642	Sat1	5' - [AminoC6] TGTACTATTTTACCTATGACCCATGGATTGGCAAGTTACTGTATCTTGAA
497930	Sco1	5' - [AminoC6] AAGGAAGAGATTGATGGAGTGGCCAGAGCATACAGGGTGTATTACAGTCC
25541	Scp2	5' - [AminoC6] AGCTCTGCAGGGGATGGATTCAAGGCAAATCTCATTTTAAAGGAAATCGA

157074	Sdha	5' - [AminoC6] TGGTCTGTACGCCCTGTGGGGAGGCTGCCTGCGCCTCAGTGCATGGTGCCA
298596	Sdhb	5' - [AminoC6] CTGGAGATAAACCTCGAATGCAGACATAACAAGGTGGATCTGAATAAGTGT
289217	Sdhc	5' - [AminoC6] ATATGAAGAGCTGGGATTCCCACATCCGTCCTGTGCATCATCACACTGAT
363061	Sdhd	5' - [AminoC6] CCTCTGCTTTATCAATGCTGTTCACCTCACAATGAGGAGGGATGAAGAAT
287606	Sept4	5' - [AminoC6] CCGTGGCTGAGTACATTGACCAGCAGTTTGAACAGTATTTCCGAGATGAG
83788	Sept9	5' - [AminoC6] TGCCCCACCCTACACACCCACCCTCAAGCCTTGATCCAGTGACTGTACT
24795	Serpina3n	5' - [AminoC6] CACTTGCTGGTCCCTATCTTTCTGCAGTATGTGGGAATCACTTGGTGCCC
305479	Sf3a1	5' - [AminoC6] CCTCACATCTAGTTCACTACTTCTATATGTGCTTGGTTTTGTTTTTGCC
364678	Sfxn1	5' - [AminoC6] CTCTGTTTCCCTCAGAAGAGTCCATGTCTGTGACAAGCTTGGAGGATGAG
294011	Sfxn2	5' - [AminoC6] CCAAGATTACTTTTGTGTTGTGTGTGTTTGTACTGATCACCACATGT
261737	Sfxn5	5' - [AminoC6] GGGACTTCTCTTGCCCTAACCCAGACCCTGGCATCCACTGTCTTCTGGCAGT
299857	Shmt2	5' - [AminoC6] CACCTGTGGCAGACATGGCCATATCAGTGGCCTGGTGGCTGCCAAGGT
25528	Sirpa	5' - [AminoC6] TATTGTCGCCGAAGGATTTTCTTATAGCAGAAACAGATTTTTTTTCCAAT
309757	Sirt1	5' - [AminoC6] ACTCCAAGGCCACGGATAGGTCCATATACTTTTGTTCAGCAACACCTCAT
293615	Sirt3	5' - [AminoC6] GGCTGCTTACGACAAGGAGCTGCTTCTGCGGCTTACACACAGAACATC
306840	Sirt5	5' - [AminoC6] CCTTATTTAAAACCTCGGTGTACCTCGTGTGGCAATGTTGCTGAGAACTAC
294260	Skiv2l	5' - [AminoC6] ACAGAGACCCGGAACATGATCCAGCGACGCATCATGGAGTCTGTGAACGG
65202	Slc13a2	5' - [AminoC6] TCATCCTCTGCCTTTTGATCGCCATCTTCACTGAGTGACCAGTAACGTG
117261	Slc15a1	5' - [AminoC6] TTCTGTTCGCCTCCTTGCTCCTGGTCGCTGCATCATATTTGCCATTATG
29483	Slc1a3	5' - [AminoC6] AGTTGGTTTTCTTTAAAGACTAAAAGAGAGCTGAACCTTGGCCTTCTTCT
84012	Slc1a6	5' - [AminoC6] CAGCTGGGCATGTACACGCTGACTGTCAATTGTCGGCTTATTTCTTCATGC
29743	Slc25a1	5' - [AminoC6] AGTCTGCCTGGACGTGGCCATCGTATTCGTCATCTATGATGAAGTGGTGA
362145	Slc25a12	5' - [AminoC6] ATATTCTACAGTATGCCAGCACCGAGGTGGACGGAGAGCATTACATGAC
362322	Slc25a13	5' - [AminoC6] ACCGCTGTGGGCTCATAGGGGACTGACCCGGATGTGGCTGGAAAATTGA
85263	Slc25a14	5' - [AminoC6] GGTGAATGGGTATCTTTCCCTGGAATAATCCTAATTTTTCTAAGGGTGAAG
361836	Slc25a16	5' - [AminoC6] TGGACACCATGGGATTTCGGAGAGGATTGTACCGTGGCTTATCTCTGAACT
300083	Slc25a17	5' - [AminoC6] GTGGGTCAAAGGTCAACGTTCTTCCACAGGAAAAGATCTGGCGATTGGAT
681896	Slc25a18	5' - [AminoC6] ATGAAGGGAGCAGGCTGCCGTGCCCTGGTCATAGCCCCCTCTTCGGGAT
303676	Slc25a19	5' - [AminoC6] AGCCCTTTGGATGTCAAGATCCGATTCAGCTCCAGCTTGAACGCGT
117035	Slc25a20	5' - [AminoC6] GAGACTACAGCAGAAAATCTCCAGAGGATGAACTTACCTACCCGCAGCTGT
171151	Slc25a21	5' - [AminoC6] CCAAGGTGATGCGACTTGGACCAGGTGGTGGGGTGTGCTGCTGGTATA
309111	Slc25a22	5' - [AminoC6] CTGCTGACCCCATCCGATAATTTAGTTCTCCAGCCTGGTAACTCTTCTGA
362403	Slc25a26	5' - [AminoC6] ATACAACTGTAGACATTAGGGCTGTCAGCTTGGGCCAGCCCTCCAGTC
85262	Slc25a27	5' - [AminoC6] AGTGGTGTGGATGGCAGGGCGAGAGGCTCCTCGCTGCTGGGTCTGCTTT
314441	Slc25a29	5' - [AminoC6] TGGCCAGTGATGCCAGCCAGTCTACACCCCACTGGCCTCCTATTTTCTTA
245959	Slc25a3	5' - [AminoC6] TACAAGGGCATATTTAATGGTTTCTCCATTACATTGAAAGAAGATGGCGT
361074	Slc25a30	5' - [AminoC6] ACGCCTTTCGTCTGTGCTCAGAGATTAGAGCGCAATAGCACCCTCGCT
315023	Slc25a32	5' - [AminoC6] TCTTCAGGACCAGCATGTGTCTTATGGCGGTGTAACCGATGTGATCACAA
501039	Slc25a36	5' - [AminoC6] GCTTTAGTAGGTACCATAACAGTGCTTTTAAAGTTACCAGGGAGCGGCCTCC
306000	Slc25a37	5' - [AminoC6] CACCAGTCAGCCCTCAGTTGTATCCGGACAGTGTGGAGGACCAGGGGTT
301067	Slc25a38	5' - [AminoC6] TGGCGCAGACGAGCTGGATGTGCTCTGATGCCCTTGTAAATTTAGCT
360636	Slc25a39	5' - [AminoC6] CCCTTCGATGTGCTGAAGACACAGCGACAAATGTCACTGGGAGCAGTGGA
85333	Slc25a4	5' - [AminoC6] TTCAAGTCTGATGGCCTGAAGGGTCTCTACCAGGGTTTCAAGTGTCTGT
365841	Slc25a44	5' - [AminoC6] AGGGCTTAAAGTGTGTGTAGTTGAACATCTGTGAATGAGCCGACTCATCC
291709	Slc25a46	5' - [AminoC6] TAAGGAGCCTAGCTTGTCTTCAATTTCTAAAAGAACTTATCCTAGAGGGA
25176	Slc25a5	5' - [AminoC6] TCGTATCCCAAGGAACAGGGAGTCTGTCTTCTGGCGTGGCAACCTGG
65192	Slc27a2	5' - [AminoC6] AAATACAACGCCACTGTCAATTCAGTACATCGGTGAACTGCTTCGGTACCT

498358	Slc30a9	5'-[AminoC6]ATTTGCATTAATGGCTTAAACTGCTTCTTTAAATTTCTTGCCTGGATTTA
29642	Slc38a2	5'-[AminoC6]AGTCCAGAACCTCACCTTTAGTCAAAGACTTGGCACTTCTGTCTCGAAGT
252919	Slc38a3	5'-[AminoC6]GCGGTACACTTACGGTTCGGATCGTTCTGTTCCCGGTACGACGGGCCAT
24779	Slc4a1	5'-[AminoC6]CTAGAACTCCAGTGTCTGGATGGTGATGATGCCAAAGTGACCTTTGACGA
84484	Slc4a4	5'-[AminoC6]TTCCTGGGCACTTACACCTCTTCTATGGCCATGAAGAAATTCAAAACCAG
24782	Slc9a1	5'-[AminoC6]CAGGCACCGATGATGTCTTACCCCCGGACCAAGTGACAGCCCCGGCTCC
24784	Slc9a3	5'-[AminoC6]TTTGCCTGCACCACAGGGAGATCGAGATGGGGCTAAAGGTGGACTTAATG
302863	Slc9a6	5'-[AminoC6]TTTGATGCTGATTCTGACCTGTTCTCTGATTCAGGAGAAAAAAGTACAAAT
317170	Slc9a7	5'-[AminoC6]ATTTTCAAATCATCGTGATTGGGGACTCCAACGTGGGCAAGACCTGCCT
290533	Simap	5'-[AminoC6]GTCCAGGGGCATCTAACCAAAGTGGTGGAGGAATCCAAGCTTTCCAAAGA
59328	Smad5	5'-[AminoC6]GGTTCAGTTCAGGAACCTGAGCCACAATGAGCCGCACATGCCCCAGAATG
24899	Smcp	5'-[AminoC6]ACTCCATGCTGCCACCAAACCATGTTGCCACCCAAACCGTGTCTGTCT
362392	Snrnp27	5'-[AminoC6]TGAGGAAGATCTGGAGGGTAAAACGGAGGAGGAAATAGAAATGATGAAAT
292729	Snrpa	5'-[AminoC6]TCAACCAGTTCCTTGGCTTCAAGGAGGTGCGTCTGGTCCCTGGGCGCCAT
171365	Snrpb	5'-[AminoC6]ATTCCCCAGGGTCAGGTTACCACAGACCTGTTTGTGTTGTTATGCTGTTTA
362242	Snta1	5'-[AminoC6]GGAGGCCCTAAGCCACCCTGAGATCTCTGCAGATGGAGTCTTCTGGGTC
310815	Snx7	5'-[AminoC6]TGGAGGCAGAACATGCAGAATGACCTCAGGTCAGCATTTACAGACACGGC
24786	Sod1	5'-[AminoC6]CTTGGGCAAAGGTGAAATGAAGAAAGTACAAAGACTGGAATGCTGGAA
24787	Sod2	5'-[AminoC6]ATCTCTGTGTTGGGGCCTGTGGGGAGGCTGTAATCCTGTTCTACTGCAGT
313845	Sos1	5'-[AminoC6]CTCCATTCATTGTCTGGGCCTCCCGTTCCTCCACGCCAAAGCACTTCTCA
85384	Sos2	5'-[AminoC6]GTGGAAGTCTACACAACTGAGTGAAGAGCCACTAGTTCCCTCCTCCGCTT
353231	Spg7	5'-[AminoC6]CACTCTCCAGGAGAGGCGGGAGATTTTCGAGCAGCACCTGAAAGGCCTCA
691966	Sqrdl	5'-[AminoC6]GGGCACTCAGCAGGCTGGACCCTCCAATTGCATACGGGAGCCTGTGCA
83805	Src	5'-[AminoC6]AGAGTACATGAACAAGGGGAGTCTGCTGGACTTTCTCAAGGGGAAACGG
501099	Srf	5'-[AminoC6]CACTAACCCCTTGCTACTGCCTTCAGTAGGAACAAGCCTGCCTCTGTGGT
291469	Srfbp1	5'-[AminoC6]GTGGTTCAAAGAAAACTGGCCAAGGGGAAGCAGGGACCCAAAGCAGTG
54304	Ssbp1	5'-[AminoC6]CCCTGTCATGAGACAGGTGGAGGGAAAAACCCAGTCACGATATTTCTC
25557	Star	5'-[AminoC6]CGGTGTCATCAGAGCTGAACACGGTCCCACCTGCATGGTGCTTCATCCAC
25125	Stat3	5'-[AminoC6]TTGCTCTCCCTTCCTTGGCCAGGTTCTTTAGTTACACAATAAGCTGAACT
81801	Stc1	5'-[AminoC6]CCTCCGAGGTGAGGGGATTTCTCCCTCACACATCAAACGCACCTCCCAAG
192277	Stip1	5'-[AminoC6]CCAAGATCCCCGGGTCATGACTACTCTCAGTGTCTCCTTGGAGTTGATC
29332	Stmn1	5'-[AminoC6]AGTGCTCCAGAAAGCCATTGAGGAGAACAACAACCTCAGCAAATGGCAG
84510	Stmn2	5'-[AminoC6]TCCCCTCAAATGAATTTGCTAGCTCTATTCTTTTGGAAAGCTCCCCATG
29246	Stmn3	5'-[AminoC6]ATGGCCAGCACCGTATCTGCCTACAAGGAGAAGATGAAGGAGCTATCTGT
79423	Stmn4	5'-[AminoC6]TGGTGTGTCATCTCTGATATGGAAGTCATCGAGCTGAATAAGTGTACCTC
298203	Stoml2	5'-[AminoC6]CTATGAGATCAGAGCTTGGCAAACCTCTCTCTGGACAAAGTTTTTCGGGAA
361071	Sucla2	5'-[AminoC6]CTCTCTTAAGCAAGGCAGACTGGCAGAAGAACTGACCCCTGAGCAATT
114597	Suclg1	5'-[AminoC6]TCGCTGCTGCCCCATCAATGAAGCAATTGACGCAGAGATTCCCTTGGTT
81805	Suox	5'-[AminoC6]GAGGTGATTATCAAGGGCTATGCATGGAGTGGTGGTGGTAGGGCTGTGAT
294385	Supv3l1	5'-[AminoC6]TCCCAGAACACTGGGAGTATTACAAGCATCCAATATCACGATGGATTGCC
64463	Surf1	5'-[AminoC6]ACAGGTGTTGCAGTTCTACTGCTGAAACAGCCGCCCTAAAGCAGAGGAC
25155	Syk	5'-[AminoC6]AGTCTTGTGTTTCTTCTGGCCTCTCTAGTAGTGCCTCTCCTTTCCAGGGG
64531	Synj2bp	5'-[AminoC6]GATACAAGCTGTTTGTAGTATTTTGGGTTTTATTGTGCAAATAAACAATA
24804	Syp	5'-[AminoC6]GAGGTAAGGGGCTCTAGAAAGGGGACAGGAAGGGAACCAGACCTTGGCTG
304983	Tagln2	5'-[AminoC6]AGGCTGGCATGACTGGCTATGGGATGCCAGGCAGATCCTCTGATCAGAC
83474	Tfam	5'-[AminoC6]CACTGGGGCGCACGGGGTTCGAGATGTGCGCGGGCTGCGGGGGCCGCATA
308140	Tfb1m	5'-[AminoC6]TACAGGAAGCAAACAGCGCAGTCGTCTTTCCATTATGGCCAGTACCTCT

289307	Tfb2m	5' - [AminoC6] GCACATGGAGCCTTGGTCGTCATTTAGTGTGCATGCCGAAAATGGGCACT
83508	Timeless	5' - [AminoC6] CGAGTAGTGGACAACTGTTGGCCCTGGGACTCGTGTCCGAGCGCAGGCA
64464	Timm10	5' - [AminoC6] CTCTGGCTAGGAGTGATTTTCGAGATACTGAGAGCTCTCGGTTTCCAGCTC
54311	Timm17a	5' - [AminoC6] GGTAGCCATGGTTGGGTCAGCTGCGATGGGCGGCATTTCTCTAGCTTTAA
317374	Timm17b	5' - [AminoC6] GGATCCGAGCACCCAGATTGGAGGTAGCTTTGCAGTATGGGGTGGCCCTG
79463	Timm22	5' - [AminoC6] AGCGGCTGCATCACTGGTGGAGCCATCGGCTTCAGAGCTGGAGTAAAGGC
54312	Timm23	5' - [AminoC6] GGGTTAGCGGGCTTCTTCGGAGCGGAGGAGCGGGTTACTCGAACGCTGA
29635	Timm44	5' - [AminoC6] AGAAGCTGGGCAAGACGGCGCCCTTCAAAGCCATCTCCCAGGTTGTAGAG
84383	Timm8a1	5' - [AminoC6] TATACTGTGACTTACTTAAATGTCAAATTGAAAATACGGTCTCAAGGTAG
64372	Timm8b	5' - [AminoC6] TCGGCTAGACTCCCGAACTGAAAAGTGCCTCTCTAGCTGTGTGGATCGAT
171139	Timm9	5' - [AminoC6] GCCAAAGCAGGCCTCTTAGGCCAACCACGGTAGAGGCCGGAGGCACGGAC
292994	Tjp1	5' - [AminoC6] ATTACTATTTCTAAGCCTGTCTTTAGAAAAATGTTATTTCTACTTTACT
115769	Tjp2	5' - [AminoC6] TTCTACTCCAGTCCCCTATGCCTGAGAGTGAGGAGGTTGGGGAGAGCACCG
314640	Tjp3	5' - [AminoC6] GAGGAGCTGTGCAGTTTCTGTTAGGGTGCCTGCAGGGGAAGACGTGGA
24834	TK1	5' - [AminoC6] TTCAGCCAATGGTGAGAACAGAGCCACCCAGCATTGTGACATTGGTGGTG
291824	Tk2	5' - [AminoC6] CTTTGTGCATCTGGCCCTCAGTGTCCACTGGGGAATCCTGGACCAGTCTTT
291661	Tmco6	5' - [AminoC6] AGAGGGAGAAGGCTCTGGTCAGCCTTCGTTCGAGGCTTGCAGCACCCCTGAC
84599	Tmed10	5' - [AminoC6] CTAAAGGGAAGTTTGCCCTTACCACAGAAGACTATGACATGTTTGAAGTA
293113	Tmem126a	5' - [AminoC6] TTCGCCGCTGGGAAGTTGCTGCCCTTCGGTCTCAGCTAAAGATTGACAAA
308593	Tmem143	5' - [AminoC6] GCACTGGGTAGTAGCTACCCTTCACCCTGACCCTTACTACCAGGCCGCC
170898	Tmlhe	5' - [AminoC6] TTCGTCTGGATGAAAGTACACTCTTTTTCACTGGCCAGATGGTCATGTG
24835	Tnf	5' - [AminoC6] CCGTTCTCTACCCAGCCCTGTCCCCGACTCTGACCCCCATTACTCTGAC
364420	Tnfrsf10b	5' - [AminoC6] ACCAAACGGGGCTAGGCGCCTCTATCAACCACCTGCTAGGTGCCTTGGAA
25625	Tnfrsf1a	5' - [AminoC6] ATCCCAGCCTTCAGCCCCAACCCGGCTTCAACCCCACTCTGGGCTTCAG
246775	Tnfsf10	5' - [AminoC6] AGTACGGACTGTACTCCATCTATCAGGGGGGGCTGTTTCGAGCTCAAAGAA
295531	Tnni3k	5' - [AminoC6] GACGTGGATATGTTTTGCGGAGAGGTGTCCATTCTCTGCCAGCTCAACCA
24837	Tnnt2	5' - [AminoC6] CTCTTCATGCCCAACTTGGTGCCACCCAAGATCCCTGACGGAGAGAGAGT
311621	Tomm34	5' - [AminoC6] GCTCTCATGGACTCCCTTGGACCTGAGTGGCGCCTCAAGCTGCCCCCTAT
308416	Tomm40	5' - [AminoC6] GATGGAAGGTGTCAAACCTTACAGTCAACAAAGGGTTAAGCAATCGTTTCC
304017	Tomm70a	5' - [AminoC6] TTTATCACCACCGAGGACAGCTGAAAATCCTGCTGGATCTAGTTGAAGAA
64550	Top1	5' - [AminoC6] CTGGACAGAGAATATCCAAGTTCTATCAAATATATCATGCTGAATCCCA
300029	Top1mt	5' - [AminoC6] GGCAATTTCAAGACGGAACCACCCGGCTTGTTCGGCGCCGAGGCGACCA
303194	Top3a	5' - [AminoC6] AGCCTGTCTCAACCTCTGGTTAACAGACATACTGGACCTTCGAAGGCAGT
315969	Topbp1	5' - [AminoC6] CCAGAACATGGTCTGCTTGAAAACAGAATATATTGCTGATTACCTCATGA
24842	Tp53	5' - [AminoC6] CCACTACAAGTACATGTGCAACAGCTCCTGCATGGGGGCATGAACCGCC
317675	Tph2	5' - [AminoC6] CTCTTTCTGACAAGGCGTGTGTAAGCCCTTTGACCCGAAGACAACCTGC
24849	Tpi1	5' - [AminoC6] TATCAATGCCAAACAATGAGCACTGCTCATCCCCCTACCTTCTGCGTAG
83534	Tpp1	5' - [AminoC6] GCCTGTGCCAGTTCCTGGAACAGTACTTCCATAACTCGGATCTGACTGA
246756	Tradd	5' - [AminoC6] GGACAGCCCCGACGACTGTCAGATACTCAAGATCCACTGCAGCGACCCCTC
311786	Traf2	5' - [AminoC6] CCCAATGATGCTCTCTTACAATGGCCTTTTAATCAGAAGGTGACTTTGAT
287069	Trap1	5' - [AminoC6] GATAAGCCTCGCTTCATTTTGCCTACAAGACGGACGCCCACTCAATAT
291324	Trdmt1	5' - [AminoC6] CTGCGGCTTTCAGTATCAAGAGTTTCTGTTGTCTCCGTCTCTCTAGGCA
313236	Trim14	5' - [AminoC6] GCCAGGCACCTCTTACCAGGCATTGGAGTCATGCACTTCACACAGTTGAT
362586	Trit1	5' - [AminoC6] CATGATCTGCACAGGAAACAGCAGGCCTTTCAGCTCCTCGTGTGCCTGTT
362976	Trmu	5' - [AminoC6] AAAAGCACACTAAGAGACCAGATGGACTGTTTCAGGAATCGATTTGAAGTC
23437	Trnas2	5' - [AminoC6] AAGAAAGTATGCAAGAAGTGCCTAATTCATGCACCCATACCTAAAACATAT
312616	Trnt1	5' - [AminoC6] GGTACACTGTTTGATTACTTTAATGGTTATGCAGATTTAAAGAATAAAAA

679068	Tsfm	5' - [AminoC6] AGACTTGTGGCGGGGATCTCAAGCAGGCAGAGGCCTGGCTGCACAAACAG
24230	Tspo	5' - [AminoC6] TGGTATGCTAGCTTGCAGAAACCCCTCCTGGCATCCGCCTCGCTGGACACT
25274	Tst	5' - [AminoC6] ACACACGTCGTGGTATACGATGGAGACGACCTGGGCAGCTTCTATGCACC
84015	Ttn	5' - [AminoC6] GAGATGGCTCAGTGGTTAAGAGCACTGACTGCTCTTCCAGAGGTCTCGAG
64158	Tuba1a	5' - [AminoC6] GATCATTGACCTTGTCTTGGACAGAATTCGAAGCTGGCTGACCAGTGCA
500929	Tuba1b	5' - [AminoC6] TGGTGAAATGTGACCCTCGCCATGGTAAATACATGGCTTGCTGCCTGCTG
300218	Tuba1c	5' - [AminoC6] TATGACATCTGTCTGTAGAAACCTCGACATGAGCGCCCAACCTACACTAA
246118	Tubb3	5' - [AminoC6] GGCAACAACCTGGGCCAAAGGGCACTATACAGAGGGCGCCGAGCTGGTGG
29213	Tubb4	5' - [AminoC6] CGCCATGTTTTAGGCGCAAGGCCTTCTGCATTGGTACACGGGTGAAGGCA
29214	Tubb5	5' - [AminoC6] CCCAACAACGTCAAGACGGCTGTCTGTGACATCCCACCGCGAGGCCTCAA
307351	Tubb6	5' - [AminoC6] GGTAGCCGTGTGTGACATCCCACCACGGGGCCTGAAGATGGCCTCCACCT
293481	Tufm	5' - [AminoC6] GAATGCTGGTGACAAACTAACAGAGTCTCGAAGAAGCCAAACACTCTGT
499016	Tulp4	5' - [AminoC6] ACTGTCCCCTCTCATGATAGGGCAGGGCCAGCACCTGGATGTGGCTCGAG
116484	Txn1	5' - [AminoC6] ATGTTGCTGCAGACTGTGAAGTCAAATGCATGCCGACCTTCCAGTTCAT
79462	Txn2	5' - [AminoC6] CGGACATTTACACCACCAGAGTCTGTTCAACAACCTTTAACGTCCAGGA
50551	Txnrd2	5' - [AminoC6] CACATGGAGTCTCATGGCACCCGGTTCCTGAAAGGCTGTGTCCCCTCCCT
315219	Tymp	5' - [AminoC6] CTGGATGGTGCAGGGCCGCCGATCTGCGGGACCTGGTCATTAGGCTAGG
314432	Uba1	5' - [AminoC6] TATGGGTTGACTGGCTCCCAAGACCGAGCTGCTGTGGCCTCACTCCTACA
192255	Ubb	5' - [AminoC6] CCTGGTCTCCGCTGAGGGGTGGCTATTAATTCTTCAGTCTGCATTCCC
289623	Ube2k	5' - [AminoC6] CCAGTTAGGATTCCTTGGTACTCGCTGGTCTCTGACATGCTTTTACATA
116725	Ube2n	5' - [AminoC6] TGTTAAGTGCTCCTAATCCAGATGATCCATTAGCAAATGATGTAGCTGAG
54315	Ucp2	5' - [AminoC6] CTGGCAGGTAGCACACAGGTGCCCTGGCTGTGGCTGTGGCCCAACCTAC
25708	Ucp3	5' - [AminoC6] TTCCTAGTCACCAGATGACTCCGCCCTGTAATGTGTCTGCCAAGTGGACT
288702	Unc119b	5' - [AminoC6] GGATTTGGACCCTTATTCTATGTCTGGCCAGCACCTGATGGCCACGTGTG
304577	Ung	5' - [AminoC6] AACGCCGTCTCACTGTCCGCGCACACCAAGCCAATTTCCATAAGGAGCG
690848	Uqcr	5' - [AminoC6] TAGGCAGCCCCCTCCCCACCACAGGCCTCGATGGTAGCATGCGCTGAGG
362897	Uqcrb	5' - [AminoC6] CAGCACTGAACAGTTGGGCCATCAGCTTTCAGAGTACTGATGGAAGGAA
301011	Uqcrc1	5' - [AminoC6] AGAGAAGGAGGTAGAGAGTATTGGCGCCCATCTTAATGCCTACAGCACTC
293448	Uqcrc2	5' - [AminoC6] TGGAGCTGGTAGAGCTGGAGATCCGGGAGCTGCTCACTGAGTTTGGCTAT
291103	Uqcrfs1	5' - [AminoC6] TGTACCATTGCAAACGCAGGAGATTTTGGTGGCTACTATTGCCCTGCC
366448	Uqcrh	5' - [AminoC6] AAGAGGAAGAAGAGGAAGAATTAGTGGACCCCTGACAACAGTGAGAGAG
497902	Uqcrq	5' - [AminoC6] ATGACACTAATTAGTGTGTGTCAGGTGTACTTTATAGACACTAATGAACTCT
309070	Uros	5' - [AminoC6] AATCCACACCCTGGAATCCAAGGGAGCCTGGAGAGCTACTATGAAAATC
303394	Usp32	5' - [AminoC6] GTCGGCGAGCACAAGCTGAGCCCATCAACCTGGACAGCTGTCTCCGTGCC
25624	Vamp1	5' - [AminoC6] TGAGACTCCCAGGGTCCCACAGAACACTTCCCCCTGCACTACCCACTTAC
60431	Vapb	5' - [AminoC6] CACAAGTTTATGGTTTCAGTCTATGTTTGCTCCGCCGACACTTCCGATAT
83529	Vdac1	5' - [AminoC6] TCATACTAATGTGAATGATGGGACGGAGTTTGGTGGCTCCATTTACCAGA
83531	Vdac2	5' - [AminoC6] TGTATAAACCTTGGCTGTGATGTTGATTTTGATTTTGTCTGGACCTGCCAT
83532	Vdac3	5' - [AminoC6] ATACAGACAATACTCTTGGGACAGAAATCTCTTGGGAGAATAAGTTGGCT
24874	Vhl	5' - [AminoC6] CACTCTGCTTTGGCAGGCGCTAGTTATGCTTCGATGGGAGAGGGGAGTGA
81818	Vim	5' - [AminoC6] AAGAAATTGCCTTTTTGAAGAAGCTGCACGATGAAGAGATCCAGGAGCTG
314442	Wars	5' - [AminoC6] TTTTCTGCTAAGGGTGATCAGGTGATGCTAATGTCTGTGGTTCAGATGGA
690654	Wars2	5' - [AminoC6] GATTTTAGCCTGTCCATATTTAGTTCAGTTTGTATGATCAGTTGCATTGGA
29753	Ywhae	5' - [AminoC6] CAGCCTTGTGGCTTACAAGCTGCTAGTGACATTGCGATGACAGAACTTC
25578	Ywhaz	5' - [AminoC6] ACTGCTTCCATGTCTAAGCAAAGAAAACCTGCCTACATATTGGTGTGTGCT
296374	Zmynd8	5' - [AminoC6] AATCTACAACGACCTCTCCAAGAACCACCTGGGAGCACAATTGCTGAGA

Supplementary Table 2. 356 Differentially Expressed Genes between Frontal Cortex (FC) and Hippocampus (HC)

Gene	Frontal Cortex		Hippocampus		FC vs HC			Gene	Frontal Cortex		Hippocampus		FC vs HC		
	Mean	SD	Mean	SD	Log2	p	FDR (%)		Mean	SD	Mean	SD	Log2	p	FDR (%)
Wars	1690.3	247.7	4499.2	432.5	-1.41	0.00	3.57	Rab4a	21350.0	3964.7	15432.3	1910.7	0.47	0.01	5.11
Slc25a29	1533.6	153.0	4003.5	711.2	-1.38	0.01	5.14	Cap2	1539.7	249.1	1110.1	130.1	0.47	0.01	4.32
Slc25a26	2089.3	76.9	4946.7	219.6	-1.24	0.00	3.57	Hnrmpa1	9331.2	2427.8	6725.2	600.6	0.47	0.05	11.80
Drd4	2779.2	602.0	6402.2	804.8	-1.20	0.01	4.57	Prkcdbp	12024.2	1331.8	8660.0	823.8	0.47	0.01	5.05
Pkn1	3369.0	976.2	7412.7	738.3	-1.14	0.01	5.05	Crem	12364.1	783.5	8900.0	851.1	0.47	0.01	4.21
Elk1	1995.5	45.4	4360.2	649.0	-1.13	0.01	5.05	Dnm1	13416.1	883.4	9640.1	443.2	0.48	0.00	3.73
Card6	1912.5	120.8	4175.5	546.6	-1.13	0.02	6.67	Rab8a	17330.1	1093.4	12441.8	1623.6	0.48	0.01	4.62
Prkar2b	7807.4	1441.5	16075.9	1605.6	-1.04	0.03	8.22	Mxd4	12114.7	1318.0	8691.5	398.0	0.48	0.01	4.57
Pik3c2g	3260.8	707.3	6371.5	492.4	-0.97	0.01	4.84	Rec8	14444.8	1393.0	10348.2	830.2	0.48	0.01	4.62
Sucla2	12541.8	1413.7	24149.8	5244.6	-0.95	0.05	10.35	Oxr1	7948.1	1588.6	5689.9	386.1	0.48	0.03	8.07
RASA3	9010.0	2901.2	17337.0	744.1	-0.94	0.04	9.02	Slc25a3	14794.2	336.1	10565.4	761.4	0.49	0.00	3.57
Gng7	4441.1	816.5	8518.0	1073.9	-0.94	0.02	5.62	Apex2	9893.5	1531.5	7060.8	445.9	0.49	0.02	5.91
Snrnp27	3829.9	468.4	7006.5	565.7	-0.87	0.01	4.22	Nucks1	2968.5	912.8	2118.5	340.5	0.49	0.05	11.60
Glrx3	7334.1	1773.5	13273.3	1448.9	-0.86	0.04	8.96	Timeless	2855.6	667.9	2037.5	85.2	0.49	0.03	7.22
Card10	4856.4	576.7	8748.2	698.4	-0.85	0.00	3.96	Drd2	5064.8	960.0	3611.9	163.7	0.49	0.02	6.80
Apcs	4637.3	531.4	8289.0	1000.2	-0.84	0.02	5.53	Ptges2	8668.6	371.2	6180.6	730.6	0.49	0.00	4.00
Ezr	6883.6	331.1	12149.6	1528.9	-0.82	0.02	6.71	Nudt21	10719.0	889.8	7621.7	473.9	0.49	0.01	4.23
Pdp1	5500.6	748.4	9690.2	984.2	-0.82	0.02	5.62	Rrad	4169.5	792.4	2960.0	170.5	0.49	0.02	5.62
Ppid	10218.2	1724.5	17994.7	1615.2	-0.82	0.01	4.81	Egr1	11478.9	2440.4	8147.9	1675.4	0.49	0.05	10.69
Anxa2	5033.7	752.5	8826.5	1158.2	-0.81	0.03	8.19	Cybb	990.1	242.9	702.4	235.3	0.50	0.03	8.55
Clcn3	3564.9	488.3	6036.0	83.2	-0.76	0.00	3.57	Bnip1	13281.9	591.1	9422.6	300.2	0.50	0.00	3.66
Mrps27	9424.9	1701.0	15723.9	944.0	-0.74	0.01	4.89	Mnat1	13038.8	1426.3	9242.1	332.6	0.50	0.01	4.69
Mrpl53	3228.4	148.8	5273.1	349.6	-0.71	0.04	9.59	Gucy1b2	8535.6	509.2	6047.0	385.0	0.50	0.00	3.57
Ddx10	7727.3	1197.3	12513.6	827.1	-0.70	0.01	4.29	Txn1	5370.0	81.3	3796.6	134.8	0.50	0.00	3.57
Impdh1	6116.3	818.5	9810.1	708.5	-0.68	0.01	4.29	Guca2a	14081.9	224.6	9954.5	1007.9	0.50	0.00	3.73
Sdhb	8054.1	985.8	12713.4	129.3	-0.66	0.00	3.57	Uqcfrs1	7232.1	898.3	5096.3	531.2	0.50	0.01	5.05
Mrps34	6385.6	1211.9	10040.3	59.2	-0.65	0.03	8.19	Map4k5	5213.9	1265.0	3673.6	409.1	0.51	0.04	9.59
Mccc2	9920.7	1747.0	15550.0	688.3	-0.65	0.02	6.80	Csnk1a1	14867.6	1060.8	10453.6	192.3	0.51	0.00	3.57

Mrps36	5255.3	753.4	8220.0	201.9	-0.65	0.01	5.14	Anxa11	8839.2	2050.4	6211.2	554.0	0.51	0.04	9.64
Cox6c	6971.0	679.4	10885.6	385.7	-0.64	0.00	3.57	Gnb2l1	3196.4	388.2	2245.9	347.8	0.51	0.01	4.54
Rassf5	7166.7	877.9	11176.3	425.2	-0.64	0.00	3.68	Mrpl43	4726.2	1172.3	3311.3	324.4	0.51	0.04	9.02
Rab23	5073.0	563.8	7725.1	270.1	-0.61	0.02	6.37	Dmgdh	8532.3	1649.4	5966.1	101.7	0.52	0.03	6.87
Afg3l1	12956.2	1900.5	19678.8	1029.8	-0.60	0.02	5.70	mt-Tk	8683.4	294.4	6056.5	382.1	0.52	0.00	3.57
Ucp2	6379.0	600.6	9674.7	371.7	-0.60	0.05	10.32	Chd5	6700.6	1127.3	4671.7	25.3	0.52	0.01	5.14
mt-Co2	8369.4	1111.5	12674.9	527.3	-0.60	0.00	4.08	ItpkA	5862.3	712.7	4074.4	468.8	0.52	0.01	4.69
Phb	10429.7	1598.7	15559.5	368.9	-0.58	0.01	5.21	Cpt1a	8086.3	274.5	5619.4	190.0	0.53	0.00	3.57
Mrpl23	7942.4	534.0	11848.4	94.3	-0.58	0.02	6.33	Traf2	9006.2	965.5	6252.3	184.1	0.53	0.01	4.32
Slc25a17	10192.0	1691.6	14917.7	417.5	-0.55	0.04	10.13	Cox15	5540.7	774.3	3822.5	305.4	0.54	0.01	5.14
Mrpl45	1857.4	67.3	2373.7	212.9	-0.35	0.02	6.62	Gpd1	10029.8	2795.5	6911.2	486.8	0.54	0.05	11.38
Cryz	9101.4	990.2	11585.2	340.7	-0.35	0.01	5.05	Kif5b	14576.0	287.1	10032.0	735.8	0.54	0.00	3.57
Atad3a	11029.0	1310.5	13778.8	773.4	-0.32	0.04	9.02	Pik3cb	13488.2	733.5	9273.4	1047.0	0.54	0.01	4.22
IDH3G	594.4	93.3	742.2	187.8	-0.32	0.02	5.62	Map3k10	11134.5	1764.3	7638.5	703.6	0.54	0.02	6.03
Chd1	6546.8	909.5	8159.8	449.8	-0.32	0.05	11.78	Usp32	8058.1	1102.5	5522.3	697.7	0.55	0.01	5.13
mt-Co1	2675.8	352.8	3243.8	248.6	-0.28	0.03	6.95	Ddr1	14977.4	1533.1	10262.1	1527.8	0.55	0.00	4.00
Npy	3181.7	318.9	3823.9	139.5	-0.27	0.05	10.56	Tspo	9364.0	2043.6	6416.0	1133.2	0.55	0.04	9.31
mt-Atp8	8861.8	726.1	10482.3	422.5	-0.24	0.01	5.21	Cyp19a1	10729.2	1830.9	7347.6	555.0	0.55	0.02	6.03
Esr2	10584.1	1267.5	8496.2	566.9	0.32	0.02	6.68	Pdhx	3345.0	519.5	2287.7	382.6	0.55	0.02	5.53
Slc25a27	20147.8	1643.8	16171.6	984.8	0.32	0.02	5.62	Ppard	10671.6	377.6	7296.7	1699.5	0.55	0.01	4.62
Chd3	5840.5	376.5	4686.1	640.5	0.32	0.00	4.02	Clic4	4754.6	1231.4	3242.8	601.1	0.55	0.01	4.89
Ogdh	12292.0	1338.9	9856.6	281.4	0.32	0.00	3.57	Abat	2311.0	175.1	1575.4	183.6	0.55	0.00	3.57
Atpaf2	9145.2	974.0	7333.1	626.3	0.32	0.01	4.22	Ccrn4l	9542.4	1200.6	6497.6	964.8	0.55	0.01	5.11
Hmgcs2	11763.8	1112.3	9423.0	1281.5	0.32	0.02	6.09	Dhx15	10003.4	1059.3	6797.6	405.2	0.56	0.01	4.57
Mknk1	2463.4	437.7	1972.6	553.5	0.32	0.03	8.04	Ak1	10419.9	1905.9	7066.1	232.7	0.56	0.02	6.37
Ucp3	7961.4	1078.9	6367.2	542.2	0.32	0.02	6.80	mt-Tl1	6163.3	500.8	4174.8	772.7	0.56	0.00	3.79
Rab3a	21095.0	3147.7	16836.5	1555.4	0.33	0.02	5.91	Ptgs2	8617.9	1034.9	5823.2	194.2	0.57	0.01	4.57
Gprasp1	6339.0	1140.6	5058.0	208.6	0.33	0.00	3.57	Scp2	9176.3	1844.9	6200.5	661.6	0.57	0.03	6.87
Gnat1	4749.5	718.0	3781.9	91.2	0.33	0.02	6.80	Dnah9	7374.5	1162.2	4980.1	321.6	0.57	0.01	5.11
Arntl	11768.4	816.8	9364.7	487.9	0.33	0.01	4.62	Glud1	9863.2	1120.1	6651.8	1069.8	0.57	0.01	4.89
Pla2g4c	5605.6	1260.9	4446.5	253.6	0.33	0.03	6.87	Rras2	3183.3	144.0	2145.6	302.6	0.57	0.00	3.57

Decr1	16903.1	473.1	13398.1	953.5	0.34	0.00	4.00	Htra2	16639.9	4099.9	11205.6	476.6	0.57	0.04	9.59
Fabp4	28057.7	1819.0	22236.3	2603.4	0.34	0.01	4.20	Cox7a2	8883.3	1880.7	5972.9	736.8	0.57	0.03	7.30
Mtp18	9856.1	1677.2	7808.2	136.1	0.34	0.04	9.12	Camk4	14732.9	312.0	9894.9	518.8	0.57	0.00	3.57
Map3k7ip1	5449.0	597.7	4311.3	279.4	0.34	0.00	3.57	Aldoa	12808.1	2286.6	8599.5	266.2	0.57	0.02	5.96
Slmap	14908.4	371.3	11791.4	1166.9	0.34	0.01	4.22	Gnai1	8898.3	197.2	5973.1	1214.2	0.58	0.01	4.29
Mthfd1	12842.5	673.6	10149.6	900.0	0.34	0.00	3.57	Mmaa	5581.7	991.0	3730.3	483.9	0.58	0.02	6.21
Ndufa4	2924.4	67.9	2306.9	234.9	0.34	0.00	3.57	Dusp2	4975.3	137.5	3323.9	425.7	0.58	0.00	3.57
Gnaq	16334.8	477.6	12873.9	113.2	0.34	0.00	3.57	Sdhc	6823.4	1650.4	4558.5	52.2	0.58	0.03	8.19
Mlycd	15307.0	979.1	12056.7	744.4	0.34	0.01	4.23	Fbn1	7106.0	182.6	4746.9	396.3	0.58	0.00	3.57
Bcl6b	15648.7	2890.6	12316.0	1765.8	0.35	0.02	6.09	Cyba	5656.0	1553.5	3758.9	323.6	0.59	0.04	10.09
Bdnf	8745.9	1118.2	6864.3	980.3	0.35	0.03	7.32	Mapk8ip3	5590.3	1143.5	3703.6	63.6	0.59	0.02	6.32
Igf1r	12387.1	71.2	9721.4	537.3	0.35	0.00	3.57	Prkcd	10309.2	996.5	6825.8	1002.3	0.59	0.00	4.00
Dusp11	10177.7	1623.2	7981.1	711.9	0.35	0.02	6.09	Acsl4	11868.4	461.5	7858.0	1380.3	0.59	0.00	4.00
mt-Rnr1	10166.7	892.6	7963.3	1614.0	0.35	0.01	5.05	mt-Tr	8623.9	571.4	5700.5	188.5	0.60	0.00	3.71
Fabp3	15223.9	1441.5	11922.0	588.3	0.35	0.01	4.29	Tomm34	4925.4	1209.1	3252.4	416.4	0.60	0.03	8.15
Nmu	12286.6	1638.1	9602.0	515.0	0.36	0.01	4.57	Bhlhe40	14496.0	361.1	9540.4	945.3	0.60	0.00	3.57
Ndufa1	1792.5	504.0	1400.7	47.0	0.36	0.04	9.59	Ndufb10	3149.0	180.6	2071.8	220.6	0.60	0.00	3.57
mt-Tf	13387.8	2206.1	10460.3	1536.7	0.36	0.01	5.35	Idh3a	2801.3	845.9	1839.8	273.8	0.61	0.04	9.59
Abcb6	14966.5	1104.7	11691.5	1136.2	0.36	0.01	5.21	Frk	9798.2	1423.4	6433.5	172.1	0.61	0.01	4.57
Crat	2250.5	252.2	1757.4	199.7	0.36	0.01	4.81	Mrps25	12383.9	1192.7	8126.2	167.0	0.61	0.00	4.02
Slc1a3	7893.5	1242.5	6161.1	125.9	0.36	0.03	7.30	Egfr	2505.6	187.3	1637.6	245.6	0.61	0.00	3.57
Kars	8379.7	451.8	6539.4	273.0	0.36	0.00	3.57	Vamp1	9221.2	2048.2	6016.8	587.5	0.62	0.03	6.95
Smad5	5737.5	1205.8	4473.4	177.4	0.36	0.04	10.09	Rap2ip	5882.1	470.8	3833.5	456.3	0.62	0.00	3.57
Mipep	2086.8	158.0	1626.8	420.0	0.36	0.01	5.35	Dusp12	7658.0	323.5	4973.6	473.9	0.62	0.00	3.57
Ppif	3727.4	601.5	2904.8	115.9	0.36	0.02	5.84	Kif1b	12207.0	1499.3	7917.5	454.9	0.62	0.01	4.57
Gna12	8812.1	737.8	6861.4	580.1	0.36	0.01	4.69	Grin2d	3950.0	226.0	2558.8	304.1	0.63	0.00	3.57
Dhx36	6456.8	558.8	5022.8	540.3	0.36	0.01	5.21	Adh6	1330.2	271.4	861.5	119.6	0.63	0.01	4.62
Plch1	8821.4	750.7	6861.3	834.1	0.36	0.01	4.23	Gpam	7728.4	799.2	4990.1	350.9	0.63	0.01	4.23
Mpst	11354.4	1801.3	8831.4	422.7	0.36	0.03	8.19	Nr3c1	3867.9	308.6	2496.7	167.2	0.63	0.00	3.57
Dguok	11174.3	1997.0	8689.2	903.1	0.36	0.02	6.58	Mapk12	7635.2	1065.3	4927.8	277.5	0.63	0.01	4.61
Grpel1	15538.9	829.6	12083.1	1860.9	0.36	0.02	5.62	Ercc5	9011.1	1925.0	5808.9	623.0	0.63	0.02	6.72

Nusap1	6307.9	615.0	4899.6	264.9	0.36	0.01	4.86	Rab11a	1856.1	620.9	1196.1	127.2	0.63	0.04	8.67
mt-Tn	11988.8	659.9	9309.8	671.4	0.36	0.01	4.57	Mrpl52	3299.0	481.6	2125.7	46.7	0.63	0.01	4.29
Rhot1	10483.8	1942.0	8134.3	539.2	0.37	0.02	6.83	Plcb4	12184.2	1632.4	7848.8	2238.2	0.63	0.02	6.78
Phlpp1	9692.4	2107.5	7515.8	395.3	0.37	0.05	11.60	Ndufs2	5077.6	1507.4	3269.6	131.2	0.64	0.04	9.59
Ppp2r1a	11404.4	1685.0	8840.4	227.8	0.37	0.02	6.83	Mtch2	996.3	373.0	641.3	62.7	0.64	0.03	6.87
Rap2b	3938.3	1046.9	3050.0	123.8	0.37	0.02	5.70	Cyp2e1	10394.6	1471.6	6686.0	548.5	0.64	0.01	4.57
Plcg1	10657.7	770.6	8252.8	524.4	0.37	0.01	4.62	Ddx31	3724.8	451.1	2385.8	112.3	0.64	0.01	4.21
Prdx1	15565.1	2617.3	12051.6	442.8	0.37	0.03	8.33	Nrg1	11932.3	1342.1	7619.1	333.6	0.65	0.01	4.23
Map2k5	20540.8	3125.2	15900.0	2269.6	0.37	0.03	8.13	Gstz1	4893.6	1103.0	3122.4	242.4	0.65	0.02	6.37
Rab39	10921.0	1053.6	8441.9	459.2	0.37	0.01	4.22	Aga	2620.7	311.8	1668.6	140.6	0.65	0.00	3.57
Slc25a22	11375.5	726.5	8792.7	472.5	0.37	0.01	4.46	Msn	14265.3	1021.8	9057.3	959.7	0.66	0.00	4.20
Pick1	19076.7	2716.4	14713.7	1184.1	0.37	0.03	6.87	Apoa1	8216.9	1516.2	5211.9	382.3	0.66	0.02	5.66
HK2	17709.1	1014.0	13627.4	2533.2	0.38	0.01	5.35	Slc25a18	5421.5	1182.9	3423.7	149.4	0.66	0.02	6.09
Nfkbib	15378.5	574.1	11819.6	765.1	0.38	0.00	3.58	Dctn6	9096.9	1253.9	5728.9	448.4	0.67	0.01	4.62
Snx7	3438.2	462.8	2640.1	104.8	0.38	0.01	4.69	Cad	9806.3	1755.7	6141.8	549.8	0.68	0.02	5.36
Nnt	9431.7	1312.6	7241.5	1221.1	0.38	0.03	6.87	Mrpl34	8363.6	1167.6	5234.5	261.8	0.68	0.01	4.46
Mapk9	3202.8	359.2	2451.1	98.6	0.39	0.01	4.23	Ak2	9520.7	1772.7	5947.7	743.1	0.68	0.02	5.91
Aven	6045.5	268.9	4621.3	164.5	0.39	0.00	3.92	Cyp24a1	4343.4	598.3	2701.5	62.5	0.69	0.00	3.57
Rxra	5405.2	937.0	4131.7	74.9	0.39	0.00	3.57	Gpt	11471.1	1607.8	7130.9	385.8	0.69	0.01	4.54
Cyb5a	3758.3	150.8	2872.2	654.6	0.39	0.01	5.14	Lep	15751.8	2787.1	9769.0	976.0	0.69	0.02	5.53
Acsl6	11766.9	1460.0	8989.6	666.8	0.39	0.01	5.05	Htr2b	9979.3	1509.1	6185.7	327.9	0.69	0.01	4.69
Acaa2	1946.2	316.8	1486.7	356.8	0.39	0.02	5.62	mt-Tw	4701.4	204.8	2911.2	204.5	0.69	0.00	3.57
Lrch4	2873.1	329.7	2192.4	137.0	0.39	0.01	4.57	Apex1	7741.7	2486.2	4792.9	240.3	0.69	0.01	4.23
Gng11	14711.6	1121.7	11223.7	639.1	0.39	0.00	3.57	Lyz2	7822.9	1117.7	4835.2	383.7	0.69	0.01	4.57
Rassf1	5995.1	639.7	4571.4	228.7	0.39	0.01	5.05	Atp5o	6116.7	1507.4	3765.6	255.7	0.70	0.03	6.87
mt-Tq	8817.7	871.8	6720.0	167.3	0.39	0.01	4.57	Glx1	12804.8	1833.4	7875.1	825.7	0.70	0.01	4.23
Ehd3	13240.4	2335.0	10085.1	609.0	0.39	0.03	8.46	Lcn2	7689.2	235.9	4707.2	900.2	0.71	0.00	3.66
Tph2	12301.0	852.7	9368.4	763.3	0.39	0.01	4.23	Casp7	4278.2	209.8	2617.7	493.0	0.71	0.00	3.57
Dhx8	5027.6	763.3	3827.3	489.3	0.39	0.01	5.16	Gucy2c	7639.3	1377.9	4662.9	482.6	0.71	0.01	4.62
Gnai3	13178.8	1958.8	10031.3	670.3	0.39	0.03	6.87	Shmt2	2924.7	796.6	1777.5	270.7	0.72	0.01	4.22
Dcxr	4066.5	320.9	3093.8	116.3	0.39	0.00	3.57	Plcd4	5376.0	1467.1	3255.9	43.2	0.72	0.03	7.30

Prl3b1	5295.7	837.4	4028.9	118.0	0.39	0.02	6.51	Gnb3	11803.8	2140.2	7129.6	540.2	0.73	0.01	5.14
Bcs1l	10566.8	942.8	8031.5	100.9	0.40	0.01	4.23	Fdft1	10056.6	1863.8	6049.8	387.6	0.73	0.01	5.21
Dbt	8760.4	1738.6	6652.2	342.3	0.40	0.04	9.24	Csnk1g1	4281.0	887.8	2572.5	206.3	0.73	0.01	4.69
Mrpl2	26107.5	4004.3	19798.7	1950.8	0.40	0.03	7.97	Stmn4	12009.1	2224.0	7169.6	512.1	0.74	0.01	5.05
Atp5i	16306.6	1012.6	12355.4	1312.5	0.40	0.01	4.57	Hibadh	9392.6	1939.0	5602.9	443.9	0.75	0.01	4.57
Mterf	14319.6	287.1	10848.8	410.1	0.40	0.00	3.57	Sdha	5088.5	275.2	3031.9	635.2	0.75	0.00	3.92
Acsl3	12657.9	305.5	9567.1	415.8	0.40	0.00	3.57	Cs	8871.3	800.6	5278.2	620.1	0.75	0.00	3.57
Ran	8700.9	1662.7	6538.9	468.1	0.41	0.04	9.13	Gad1	12837.5	928.7	7609.2	397.8	0.75	0.00	3.57
Vdac1	3985.2	545.4	2994.4	98.5	0.41	0.01	4.83	Vhl	15300.7	2291.9	9027.3	527.0	0.76	0.00	3.57
Clcf1	5340.3	210.4	4011.2	437.9	0.41	0.00	4.00	Otc	7904.4	2204.3	4652.3	125.7	0.76	0.03	7.39
Ndufa10	3485.1	484.3	2616.6	435.5	0.41	0.01	4.23	Grm8	8415.5	2979.1	4933.1	436.9	0.77	0.05	11.58
GPX1	8106.0	1747.7	6081.3	764.8	0.41	0.05	10.69	Mrpl1	6352.4	1555.8	3705.7	157.2	0.78	0.02	6.37
Map3k3	4696.4	306.4	3522.1	495.8	0.42	0.00	4.00	Abca4	8195.4	1615.7	4772.0	521.9	0.78	0.01	4.74
Gng5	3288.5	217.9	2465.5	28.6	0.42	0.00	3.57	Card9	5980.2	1216.9	3480.3	525.7	0.78	0.01	5.21
mt-Ti	9661.5	577.2	7240.2	294.6	0.42	0.00	4.08	Gucy2d	5433.7	971.5	3151.9	271.5	0.79	0.01	4.62
Ntf4	15352.0	712.1	11501.5	739.3	0.42	0.00	3.57	mt-Tc	7070.7	772.4	4094.7	176.9	0.79	0.00	3.69
Slc25a14	15207.0	1635.5	11387.7	1341.6	0.42	0.01	5.35	Htr6	2049.5	631.0	1184.4	185.8	0.79	0.02	6.72
Peci	8658.5	1491.3	6481.7	238.7	0.42	0.02	6.03	Ntrk2	6620.3	351.7	3805.2	255.8	0.80	0.00	3.57
Hsd11b1	5338.4	664.6	3995.3	311.3	0.42	0.01	5.14	Rab11b	6199.4	1771.2	3535.4	243.8	0.81	0.03	7.23
Slc27a2	4770.1	1324.4	3569.8	786.9	0.42	0.03	7.30	Sfxn5	5378.4	2066.3	3042.5	121.4	0.82	0.05	11.14
Nfkb1	8048.4	113.7	6020.4	413.0	0.42	0.00	3.57	Itpr2	7050.8	1106.1	3986.3	145.5	0.82	0.01	4.29
Gpd2	6158.5	218.8	4604.2	270.6	0.42	0.00	3.57	Cyp11b2	6837.9	1253.0	3864.2	144.5	0.82	0.01	4.57
Aifm1	3826.4	657.5	2857.9	255.2	0.42	0.02	5.53	Gna11	5417.3	933.0	3035.4	369.2	0.84	0.01	4.57
Cyp17a1	10265.2	1440.3	7658.7	326.5	0.42	0.02	6.03	Gna15	6119.3	609.8	3425.8	615.0	0.84	0.00	3.73
Agxt	12290.1	1604.5	9167.5	861.9	0.42	0.02	6.32	Casp8	5791.1	1369.6	3235.7	148.9	0.84	0.02	5.69
mt-Rnr2	8898.0	344.6	6636.9	1153.1	0.42	0.01	4.23	Atf4	9593.0	3361.3	5291.8	176.7	0.86	0.04	9.38
Mcl1	9708.2	2104.1	7240.9	303.4	0.42	0.05	10.55	Gatm	3964.8	893.1	2175.7	485.0	0.87	0.02	5.62
Gucy1b3	12526.8	560.2	9329.3	663.1	0.43	0.00	3.57	Plcg2	3048.3	246.1	1660.6	511.0	0.88	0.01	4.23
Ddx19a	7302.1	801.9	5436.8	356.6	0.43	0.01	4.69	Rab8b	3310.6	220.7	1795.2	295.2	0.88	0.00	3.57
Acat1	12446.4	1472.3	9256.0	1493.3	0.43	0.01	4.23	Macrodl	3249.3	914.5	1761.0	71.0	0.88	0.02	6.09
Ntrk1	5493.3	1443.5	4084.6	122.2	0.43	0.05	11.65	Oat	6674.9	1117.2	3617.1	257.8	0.88	0.01	4.29

Mybpc3	17513.0	2608.1	13017.6	1315.0	0.43	0.03	6.95	Pmpcb	4073.7	1029.2	2200.4	525.7	0.89	0.02	6.38
Arf4d	5934.0	386.4	4410.4	446.2	0.43	0.00	3.57	Hcrt	7963.8	2105.7	4231.2	223.3	0.91	0.02	6.11
Atp5e	10723.2	1815.8	7963.4	395.7	0.43	0.03	6.87	Pde1a	2785.6	32.5	1478.6	183.4	0.91	0.00	3.57
Aanat	9001.0	222.3	6678.6	225.6	0.43	0.00	3.57	Gapdh	8344.7	1705.1	4422.8	677.9	0.92	0.01	5.05
Atp6v1e1	13206.1	551.7	9792.7	942.8	0.43	0.00	4.15	Bnip3l	4544.3	1671.2	2362.1	168.7	0.94	0.04	8.82
Fh1	16306.0	849.6	12050.0	1735.1	0.44	0.00	3.57	Itpr3	9785.5	568.2	5055.0	2290.9	0.95	0.01	5.35
Gnb1	10079.2	1377.5	7446.7	1184.4	0.44	0.02	6.74	Dusp4	6431.2	2225.0	3321.2	465.3	0.95	0.04	8.59
Ndufaf1	15008.7	1265.9	11078.8	441.0	0.44	0.01	4.57	Edn1	7230.9	1104.8	3725.7	278.3	0.96	0.01	4.21
Txn2	17057.8	1948.9	12585.4	1277.0	0.44	0.01	5.35	Ppa2	3790.4	575.1	1952.6	410.9	0.96	0.01	4.57
Timm22	16151.7	1618.4	11904.4	1372.9	0.44	0.01	5.05	Casp2	6496.3	1459.4	3264.7	93.9	0.99	0.01	4.83
Duox1	3175.1	896.3	2339.8	341.3	0.44	0.05	11.07	Guca2b	3972.0	943.8	1991.0	361.1	1.00	0.01	5.35
Mapk7	5538.5	989.3	4070.2	373.9	0.44	0.02	6.51	Mybbp1a	4825.2	1625.5	2405.2	104.6	1.00	0.03	6.99
Jak1	11049.7	1921.2	8119.4	544.6	0.44	0.03	6.87	Gnb2	6758.5	1576.9	3333.0	89.8	1.02	0.01	4.94
Chd4	7446.9	1055.0	5468.4	389.0	0.45	0.02	5.69	Ogg1	2805.6	662.0	1380.0	351.5	1.02	0.01	4.57
Vdac3	3956.5	470.4	2895.3	311.2	0.45	0.01	4.23	Cyp1a2	1648.6	238.0	797.9	219.9	1.05	0.00	4.08
Qars	6232.4	173.1	4556.0	736.5	0.45	0.00	4.08	Grb2	5344.0	2334.9	2560.7	180.3	1.06	0.05	10.40
Nr4a1	10171.9	1732.1	7430.6	408.9	0.45	0.03	6.91	Csnk1g3	2587.2	788.1	1223.8	72.6	1.08	0.02	5.62
Dusp14	6322.2	686.8	4613.6	548.7	0.45	0.00	3.57	Prkd1	4192.8	1278.4	1974.0	169.1	1.09	0.02	6.08
Htr7	5604.5	756.8	4088.7	411.6	0.45	0.00	3.57	Mrps31	3426.5	338.3	1600.0	240.0	1.10	0.00	3.57
Dusp10	10662.9	1534.3	7774.7	1053.6	0.46	0.01	4.57	Nradd	3835.0	608.2	1747.2	290.6	1.13	0.00	4.15
Pacsin2	13451.5	567.7	9795.3	338.8	0.46	0.00	3.92	Prss2	3023.0	302.1	1376.7	248.8	1.13	0.00	3.57
Esr1	11627.4	1690.5	8437.0	509.4	0.46	0.02	6.09	Dbp	4948.3	400.6	2238.7	295.4	1.14	0.00	3.57
Rab3d	14123.2	1648.4	10242.6	184.7	0.46	0.01	5.05	Mapk8ip1	3576.1	696.8	1604.2	262.1	1.16	0.00	3.57
Avpr1a	7921.2	677.3	5731.5	847.2	0.47	0.01	4.57	Pfn1	3580.6	365.2	1548.3	206.9	1.21	0.00	3.57
Rab4a	21350.0	3964.7	15432.3	1910.7	0.47	0.01	5.11	Ddc	11750.5	707.1	4718.7	865.8	1.32	0.00	3.57
Cap2	1539.7	249.1	1110.1	130.1	0.47	0.01	4.32	Cyp3a62	3002.7	828.8	1174.1	59.0	1.35	0.01	4.62
Hnrnpa1	9331.2	2427.8	6725.2	600.6	0.47	0.05	11.80	Drd1a	4058.5	1093.3	1540.0	122.2	1.40	0.01	4.57
Prkcdpb	12024.2	1331.8	8660.0	823.8	0.47	0.01	5.05	Cyp1a1	4487.8	1134.7	931.6	97.7	2.27	0.00	3.57

Supplementary Table 3. 343 Differentially Expressed Genes between Frontal Cortex (FC) and Hypothalamus (HT)

Gene	Frontal Cortex		Hypothalamus		FC vs HT			Gene	Frontal Cortex		Hypothalamus		FC vs HT		
	Mean	SD	Mean	SD	Log2	p	FDR (%)		Mean	SD	Mean	SD	Log2	p	FDR (%)
Wars	1690.3	247.7	4349.6	746.9	-1.36	0.02	6.24	Mapkapk3	13362.2	462.6	9425.5	670.5	0.50	0.00	0.47
Npas2	1826.6	461.0	4626.1	620.9	-1.34	0.03	7.90	Fabp4	28057.7	1819.0	19776.9	2852.8	0.50	0.00	2.41
Drd4	2779.2	602.0	6892.0	119.7	-1.31	0.01	2.53	Cox7a2	8883.3	1880.7	6260.2	841.1	0.50	0.02	6.39
Trit1	2978.2	453.1	6916.9	1156.2	-1.22	0.05	10.04	Vdac2	5941.0	1060.9	4176.7	770.2	0.51	0.02	5.87
mt-Nd1	12603.1	986.4	29018.2	7312.2	-1.20	0.02	6.24	Rab8b	3310.6	220.7	2326.8	446.5	0.51	0.01	2.65
Slc25a26	2089.3	76.9	4637.4	319.2	-1.15	0.00	0.55	Nmu	12286.6	1638.1	8626.4	539.2	0.51	0.00	1.86
Card6	1912.5	120.8	4223.0	363.4	-1.14	0.01	4.95	Gpd2	6158.5	218.8	4321.2	430.9	0.51	0.00	0.37
Mut	1018.6	123.4	2203.6	248.9	-1.11	0.04	8.73	Sat1	6513.9	1945.5	4562.5	691.6	0.51	0.04	9.57
Map3k1	1840.9	249.6	3910.3	102.8	-1.09	0.01	2.70	Nfkb1	8048.4	113.7	5635.8	458.1	0.51	0.00	0.48
Timm17b	3420.1	547.9	7031.5	781.7	-1.04	0.05	10.88	Arf4d	5934.0	386.4	4151.9	626.2	0.52	0.00	1.09
Rasgrp3	1461.0	74.3	2989.2	213.0	-1.03	0.03	6.62	Cox15	5540.7	774.3	3874.0	687.4	0.52	0.02	5.05
Gng7	4441.1	816.5	8804.1	540.8	-0.99	0.01	4.42	Gna11	5417.3	933.0	3786.2	1116.7	0.52	0.04	8.62
Echdc2	4787.5	427.9	8920.5	64.9	-0.90	0.05	10.15	Mrpl34	8363.6	1167.6	5837.5	1188.7	0.52	0.02	5.47
Card10	4856.4	576.7	8789.0	567.9	-0.86	0.00	2.48	Nr4a1	10171.9	1732.1	7099.4	937.4	0.52	0.02	5.28
Mrpl48	6044.5	463.0	10924.1	493.5	-0.85	0.01	3.18	Grpel1	15538.9	829.6	10830.3	2345.2	0.52	0.01	4.62
Bsg	5870.4	312.3	10532.8	1752.3	-0.84	0.03	7.85	Rab4a	21350.0	3964.7	14877.2	663.6	0.52	0.00	2.53
Azin1	5783.5	852.3	10195.8	822.3	-0.82	0.05	10.57	Oxr1	7948.1	1588.6	5534.6	333.7	0.52	0.02	5.20
Map2k2	5743.5	956.9	9700.1	850.1	-0.76	0.05	10.94	Anxa11	8839.2	2050.4	6137.7	1233.9	0.53	0.04	8.44
Dlat	4708.1	380.7	7831.9	206.8	-0.73	0.02	5.42	Ak1	10419.9	1905.9	7234.3	1165.1	0.53	0.02	6.25
Pink1	11313.3	944.0	15040.6	1423.1	-0.41	0.02	6.49	Acat1	12446.4	1472.3	8640.1	1229.6	0.53	0.00	2.41
Rab13	11218.2	719.9	14585.1	1333.5	-0.38	0.01	4.25	Prdx1	15565.1	2617.3	10790.6	226.6	0.53	0.01	3.64
Ppib	2760.1	101.0	3548.5	407.4	-0.36	0.04	8.99	Sirt1	12327.0	3310.5	8511.6	852.4	0.53	0.03	7.85
mt-Atp8	8861.8	726.1	11318.0	1023.9	-0.35	0.01	3.64	Ccrn4l	9542.4	1200.6	6541.4	207.8	0.54	0.00	2.41
Rab3b	6591.2	490.0	8407.5	809.2	-0.35	0.02	5.36	Ak2	9520.7	1772.7	6516.1	1335.1	0.55	0.02	6.61
Map3k14	2040.4	220.4	2589.2	420.6	-0.34	0.05	11.08	Mrpl21	1562.3	411.7	1068.0	274.3	0.55	0.02	5.30
Tnfsf10	10195.2	982.5	12860.1	1144.0	-0.34	0.03	8.26	Sdhc	6823.4	1650.4	4657.6	600.7	0.55	0.02	6.24
Prkar2a	13243.8	945.3	16689.2	1303.8	-0.33	0.02	5.42	Pmpcb	4073.7	1029.2	2774.8	738.6	0.55	0.04	9.57
Mapkbp1	4758.4	562.2	5945.5	597.7	-0.32	0.02	5.88	Mybpc3	17513.0	2608.1	11916.0	1389.5	0.56	0.01	3.91

Slc9a6	7898.6	1450.1	6342.2	997.7	0.32	0.04	9.56	mt-Tr	8623.9	571.4	5855.2	258.9	0.56	0.00	1.61
mt-Tq	8817.7	871.8	7069.3	712.0	0.32	0.01	4.27	Uqcrfs1	7232.1	898.3	4905.2	147.5	0.56	0.00	2.18
Rras2	3183.3	144.0	2550.8	383.4	0.32	0.01	2.62	Itpr2	7050.8	1106.1	4761.1	1124.8	0.57	0.02	6.25
Phlpp1	9692.4	2107.5	7762.3	618.0	0.32	0.04	9.05	Peci	8658.5	1491.3	5846.4	557.6	0.57	0.01	2.67
Cyp2c26l	9489.4	2005.0	7591.6	438.9	0.32	0.00	1.81	Grid1	14412.5	4168.3	9712.4	837.7	0.57	0.03	8.06
Mrpl30	14968.6	991.7	11959.0	399.6	0.32	0.00	0.65	Timm22	16151.7	1618.4	10880.9	1521.2	0.57	0.01	3.09
Rad17	7273.4	1419.8	5809.6	1013.3	0.32	0.04	9.57	Acot9	6962.5	2257.8	4676.4	738.0	0.57	0.05	10.94
Hrk	14680.5	416.2	11699.2	681.5	0.33	0.00	0.79	Jak1	11049.7	1921.2	7421.0	1084.5	0.57	0.01	4.76
Coq7	4618.8	457.3	3677.5	727.2	0.33	0.01	2.56	Kif5b	14576.0	287.1	9772.5	1567.7	0.58	0.00	2.53
Gjb6	3888.5	872.1	3092.5	531.7	0.33	0.03	6.94	Slc25a18	5421.5	1182.9	3632.3	313.6	0.58	0.02	5.42
Mrpl4	12774.6	406.9	10147.1	1310.2	0.33	0.01	3.64	Ntrk1	5493.3	1443.5	3678.0	634.8	0.58	0.02	6.25
Ddx1	2803.2	791.6	2225.9	312.8	0.33	0.05	11.37	Chd4	7446.9	1055.0	4969.4	326.0	0.58	0.01	2.53
Ndufs1	9309.7	836.4	7390.4	862.2	0.33	0.01	4.76	Bhlhe40	14496.0	361.1	9594.2	2461.7	0.60	0.01	4.70
Gnai3	13178.8	1958.8	10458.3	1687.0	0.33	0.03	7.90	Cox17	13916.4	2316.6	9178.8	226.1	0.60	0.00	1.86
Mxd4	12114.7	1318.0	9607.0	1514.7	0.33	0.02	6.24	Msn	14265.3	1021.8	9400.0	2533.0	0.60	0.02	5.42
Mnat1	13038.8	1426.3	10324.4	2459.4	0.34	0.04	9.70	mt-Tc	7070.7	772.4	4658.6	1173.2	0.60	0.02	5.29
Mrpl14	14875.3	926.6	11771.7	160.5	0.34	0.00	2.15	Acaa2	1946.2	316.8	1280.1	196.0	0.60	0.00	1.51
Nudt21	10719.0	889.8	8476.6	1235.7	0.34	0.02	5.05	Htr2b	9979.3	1509.1	6554.3	2167.2	0.61	0.04	8.50
Mterf	14319.6	287.1	11321.4	1957.2	0.34	0.01	4.47	Ndufaf1	15008.7	1265.9	9840.9	1553.8	0.61	0.01	3.09
Gng11	14711.6	1121.7	11624.9	1655.2	0.34	0.01	3.98	Mcl1	9708.2	2104.1	6345.7	438.5	0.61	0.02	5.20
Ddx31	3724.8	451.1	2937.0	452.9	0.34	0.02	5.23	Pitrm1	6642.4	1077.3	4341.2	852.2	0.61	0.00	2.11
Aldh2	19382.4	2060.9	15274.9	1536.1	0.34	0.01	4.70	Snx7	3438.2	462.8	2243.9	468.7	0.62	0.00	2.53
Nags	6851.3	391.1	5395.2	405.7	0.34	0.00	0.48	Ehd3	13240.4	2335.0	8608.0	831.0	0.62	0.01	3.37
Dusp11	10177.7	1623.2	8012.3	315.7	0.35	0.01	3.77	Cap2	1539.7	249.1	997.4	222.3	0.63	0.00	2.41
Dhx36	6456.8	558.8	5081.3	200.2	0.35	0.01	2.53	Ptges2	8668.6	371.2	5605.2	963.8	0.63	0.00	1.09
Guca1b	9598.2	611.9	7549.5	919.9	0.35	0.00	1.86	mt-Rnr1	10166.7	892.6	6544.7	552.5	0.64	0.00	0.37
Smad5	5737.5	1205.8	4511.4	277.7	0.35	0.03	7.28	HK2	17709.1	1014.0	11359.6	1609.3	0.64	0.00	2.11
Ii1r1	14110.8	1916.4	11080.5	813.3	0.35	0.01	3.71	Qars	6232.4	173.1	3993.9	584.1	0.64	0.00	0.48
Rap1b	4895.2	740.4	3840.6	210.6	0.35	0.00	1.09	Map3k3	4696.4	306.4	3000.1	565.6	0.65	0.00	0.86
Atp5e	10723.2	1815.8	8401.0	1572.5	0.35	0.04	8.77	Nnt	9431.7	1312.6	6022.7	499.9	0.65	0.00	2.10
Tph2	12301.0	852.7	9586.0	1293.2	0.36	0.01	3.90	Guca2a	14081.9	224.6	8989.5	721.9	0.65	0.00	0.59

Atpaf2	9145.2	974.0	7126.5	979.0	0.36	0.00	1.57	Mrpl2	26107.5	4004.3	16598.2	694.4	0.65	0.01	2.61
Agxt	12290.1	1604.5	9575.6	1370.5	0.36	0.02	6.25	Mpst	11354.4	1801.3	7190.6	861.3	0.66	0.01	2.65
Abcb6	14966.5	1104.7	11656.2	1374.9	0.36	0.01	3.77	Gapdh	8344.7	1705.1	5275.3	1587.6	0.66	0.03	7.98
Gprasp1	6339.0	1140.6	4928.0	337.4	0.36	0.00	1.69	Mrps25	12383.9	1192.7	7824.8	2396.4	0.66	0.02	6.24
Ddx18	14852.8	789.3	11545.0	462.1	0.36	0.00	1.21	Plcb4	12184.2	1632.4	7692.9	2392.7	0.66	0.02	6.48
Tmed10	15391.7	1722.0	11955.1	2063.0	0.36	0.02	6.24	Kif1b	12207.0	1499.3	7681.6	1613.9	0.67	0.01	4.51
Aanat	9001.0	222.3	6986.5	745.0	0.37	0.00	1.05	Stmn2	7966.5	3018.5	5009.0	732.2	0.67	0.04	9.69
Gucy2e	11182.0	2357.2	8678.3	807.2	0.37	0.04	8.51	mt-Tw	4701.4	204.8	2934.1	42.9	0.68	0.00	0.72
Crem	12364.1	783.5	9595.2	2674.7	0.37	0.04	8.59	Slc27a2	4770.1	1324.4	2976.9	280.3	0.68	0.00	2.53
Uros	7131.4	1356.6	5529.3	577.1	0.37	0.02	5.42	Htra2	16639.9	4099.9	10377.9	802.0	0.68	0.02	5.23
Dusp2	4975.3	137.5	3856.6	211.0	0.37	0.00	1.09	Atp5d	7991.2	3069.0	4966.6	352.4	0.69	0.04	9.77
Dusp26	8195.2	1037.7	6341.6	543.1	0.37	0.00	0.47	Scp2	9176.3	1844.9	5701.5	1003.0	0.69	0.02	5.17
Vdac1	3985.2	545.4	3081.1	606.3	0.37	0.02	6.20	Prok2	8391.5	2461.5	5213.5	291.4	0.69	0.02	6.42
Pdp2	11120.1	1898.8	8575.5	509.6	0.37	0.01	3.38	Ppard	10671.6	377.6	6629.1	887.7	0.69	0.00	1.23
Cyb5b	19156.4	984.6	14759.1	2021.1	0.38	0.01	3.09	Cyp2e1	10394.6	1471.6	6453.7	510.5	0.69	0.00	2.46
Ppig	3475.4	468.2	2677.3	489.2	0.38	0.00	2.43	Htr7	5604.5	756.8	3466.5	248.1	0.69	0.00	0.31
Txn2	17057.8	1948.9	13134.5	2548.7	0.38	0.02	6.48	Gad1	12837.5	928.7	7903.9	2328.5	0.70	0.01	4.87
Slc25a38	12606.3	1601.9	9690.3	700.4	0.38	0.01	2.97	Vhl	15300.7	2291.9	9357.0	662.8	0.71	0.00	1.09
Dcxr	4066.5	320.9	3124.6	237.8	0.38	0.00	0.89	Gpd1	10029.8	2795.5	6131.0	1812.1	0.71	0.04	9.05
Htr5a	11914.9	1175.1	9149.7	834.3	0.38	0.00	0.31	Gnb3	11803.8	2140.2	7201.9	1194.7	0.71	0.01	4.36
Bnip1	13281.9	591.1	10185.9	2502.4	0.38	0.03	6.85	Dnah9	7374.5	1162.2	4491.5	307.2	0.72	0.00	2.33
Cyp2c7	9696.5	1806.1	7427.7	623.6	0.38	0.00	1.09	Dusp10	10662.9	1534.3	6489.9	570.5	0.72	0.00	1.13
Apex2	9893.5	1531.5	7578.1	1603.3	0.38	0.04	8.50	Ercc5	9011.1	1925.0	5470.8	762.7	0.72	0.01	4.29
Map4k4	13631.1	2047.2	10422.4	683.1	0.39	0.00	2.41	Plp2	7653.0	2349.7	4640.7	530.0	0.72	0.02	6.55
Gpd1l	8944.6	2295.6	6832.7	971.1	0.39	0.05	10.57	Nicn1	10339.1	3935.6	6221.8	873.0	0.73	0.04	9.66
Acsl4	11868.4	461.5	9048.9	55.0	0.39	0.00	0.54	Cs	8871.3	800.6	5338.4	434.0	0.73	0.00	1.08
Mapk12	7635.2	1065.3	5814.9	556.8	0.39	0.01	3.97	Frk	9798.2	1423.4	5886.4	820.4	0.74	0.00	2.48
Gpt	11471.1	1607.8	8734.2	2135.1	0.39	0.04	9.18	Uba1	9659.7	2868.3	5778.7	478.2	0.74	0.03	7.02
Rab39	10921.0	1053.6	8314.6	976.0	0.39	0.00	1.87	Aldoa	12808.1	2286.6	7661.3	897.7	0.74	0.01	3.45
Actg1	8374.9	1348.4	6370.5	244.4	0.39	0.01	4.95	Ehd4	2905.9	892.4	1735.7	171.5	0.74	0.02	5.47
Fdxr	2757.1	207.8	2097.2	151.7	0.39	0.00	0.47	Clic4	4754.6	1231.4	2839.7	243.5	0.74	0.00	1.94

Htr6	2049.5	631.0	1557.4	173.7	0.40	0.04	9.81	Stmn4	12009.1	2224.0	7172.5	2455.9	0.74	0.03	6.95
Ndufa1	1792.5	504.0	1361.7	307.6	0.40	0.03	7.78	Abat	2311.0	175.1	1380.1	158.3	0.74	0.00	0.47
Cpt1a	8086.3	274.5	6140.1	855.3	0.40	0.00	0.75	Ndufs2	5077.6	1507.4	3031.1	472.0	0.74	0.02	6.25
Mapk7	5538.5	989.3	4195.8	943.0	0.40	0.03	8.22	Fdft1	10056.6	1863.8	5927.6	1431.1	0.76	0.02	5.42
Echs1	19017.5	2283.9	14391.6	2056.0	0.40	0.01	5.05	Mtch2	996.3	373.0	587.0	188.9	0.76	0.03	6.91
Map4k2	3996.5	845.1	3023.4	76.4	0.40	0.00	2.35	Apoa1	8216.9	1516.2	4834.2	803.1	0.77	0.01	4.36
Ndufb41	7993.8	1158.7	6039.0	387.4	0.40	0.00	1.09	Card9	5980.2	1216.9	3499.9	1511.6	0.77	0.04	9.48
Dguok	11174.3	1997.0	8414.8	562.7	0.41	0.01	3.37	Bckdk	5437.5	1015.4	3179.3	400.2	0.77	0.00	2.15
Mrpl40	3370.7	264.1	2537.6	172.5	0.41	0.00	1.13	Txn1	5370.0	81.3	3139.1	443.4	0.77	0.00	0.47
Lrch4	2873.1	329.7	2162.7	251.4	0.41	0.00	2.41	Prkcd	10309.2	996.5	6009.9	109.9	0.78	0.00	0.57
Itpka	5862.3	712.7	4408.9	932.2	0.41	0.02	6.25	Plcg2	3048.3	246.1	1770.1	126.4	0.78	0.00	0.34
Ehhadh	6387.1	505.8	4802.1	832.6	0.41	0.00	1.13	mt-Rnr2	8898.0	344.6	5153.8	292.1	0.79	0.00	0.24
Gucy2d	5433.7	971.5	4081.5	624.5	0.41	0.02	6.55	Otc	7904.4	2204.3	4560.5	905.1	0.79	0.02	6.49
Dusp6	5017.8	757.3	3766.9	475.4	0.41	0.00	0.82	mt-Tv	3508.4	288.7	2023.4	311.6	0.79	0.00	0.57
Fabp3	15223.9	1441.5	11405.1	781.3	0.42	0.00	2.15	Sdha	5088.5	275.2	2934.5	489.7	0.79	0.00	0.79
Slc25a22	11375.5	726.5	8509.6	874.4	0.42	0.01	2.53	Mrpl1	6352.4	1555.8	3663.3	497.0	0.79	0.01	4.76
Pacsin2	13451.5	567.7	10048.3	2185.0	0.42	0.02	5.49	Rab12	6186.9	2510.7	3566.6	732.4	0.79	0.05	10.94
Map3k7ip1	5449.0	597.7	4069.7	380.2	0.42	0.00	0.39	Ddx20	6738.7	2832.1	3865.4	990.8	0.80	0.05	10.68
Dctn6	9096.9	1253.9	6777.2	1606.2	0.42	0.03	8.06	Apex1	7741.7	2486.2	4423.7	37.6	0.81	0.00	2.53
Traf2	9006.2	965.5	6699.7	760.9	0.43	0.01	3.98	Gng5	3288.5	217.9	1871.1	362.9	0.81	0.00	1.86
Adh6	1330.2	271.4	988.6	183.8	0.43	0.02	5.42	Casp2	6496.3	1459.4	3677.5	1305.8	0.82	0.03	7.75
mt-Tk	8683.4	294.4	6452.8	672.8	0.43	0.00	2.09	Oat	6674.9	1117.2	3747.1	1557.6	0.83	0.03	6.95
Dhx15	10003.4	1059.3	7433.1	1249.5	0.43	0.02	5.29	Macrocl1	3249.3	914.5	1818.8	132.4	0.84	0.01	4.95
Mtrr	6676.8	480.0	4960.2	962.6	0.43	0.00	1.86	Gatm	3964.8	893.1	2212.0	493.0	0.84	0.01	4.76
Rab3a	21095.0	3147.7	15639.7	1572.9	0.43	0.01	3.87	Map3k10	11134.5	1764.3	6205.0	765.3	0.84	0.00	2.11
Chd5	6700.6	1127.3	4965.2	1110.6	0.43	0.03	7.78	Cyba	5656.0	1553.5	3145.6	551.8	0.85	0.02	5.47
Avpr1a	7921.2	677.3	5864.6	799.4	0.43	0.00	1.60	Gnb2	6758.5	1576.9	3732.4	1150.3	0.86	0.02	6.49
Nsmce4a	5506.5	779.3	4075.4	277.7	0.43	0.00	2.09	Atp5o	6116.7	1507.4	3372.5	311.9	0.86	0.01	3.92
Rab8a	17330.1	1093.4	12823.4	500.7	0.43	0.00	1.33	Dusp4	6431.2	2225.0	3542.5	1102.7	0.86	0.04	9.69
Slc25a14	15207.0	1635.5	11240.7	1899.4	0.44	0.01	5.05	Ntrk2	6620.3	351.7	3587.2	503.9	0.88	0.00	1.05
Cyp2b1	4228.8	107.6	3124.3	429.8	0.44	0.00	1.77	Cyp11b2	6837.9	1253.0	3690.5	306.2	0.89	0.00	2.53

Slc25a27	20147.8	1643.8	14875.5	1613.0	0.44	0.01	3.44	mt-Tf1	6163.3	500.8	3312.6	836.3	0.90	0.00	0.86
Timeless	2855.6	667.9	2107.8	541.7	0.44	0.04	9.30	Gnai1	8898.3	197.2	4754.0	448.2	0.90	0.00	0.48
Slc25a3	14794.2	336.1	10915.5	2075.3	0.44	0.01	4.14	Abca4	8195.4	1615.7	4374.1	398.4	0.91	0.00	2.23
Rec8	14444.8	1393.0	10653.3	872.5	0.44	0.01	3.18	Fbn1	7106.0	182.6	3781.3	272.0	0.91	0.00	0.24
Mmaa	5581.7	991.0	4112.7	1270.0	0.44	0.05	10.94	Hnrmpc	5169.3	1661.3	2742.5	134.5	0.91	0.02	5.23
Kcnma1	5033.1	206.0	3703.8	394.0	0.44	0.00	0.47	Csnk1g3	2587.2	788.1	1370.2	526.6	0.92	0.03	7.02
Ndufv1	3065.4	559.7	2255.0	605.3	0.44	0.01	4.91	Nfs1	5686.2	1997.1	3008.2	484.1	0.92	0.02	6.53
Plcd4	5376.0	1467.1	3952.9	892.3	0.44	0.05	11.36	Grb2	5344.0	2334.9	2790.8	982.3	0.94	0.05	11.52
Nr2f6	13506.2	2987.4	9921.1	1840.8	0.45	0.04	9.51	Drd2	5064.8	960.0	2603.6	608.5	0.96	0.01	3.73
Ndufb10	3149.0	180.6	2301.9	347.8	0.45	0.00	1.09	Gna15	6119.3	609.8	3137.6	321.5	0.96	0.00	0.79
Mrps18a	22527.1	1655.4	16464.1	956.6	0.45	0.00	1.51	Glx1	12804.8	1833.4	6536.7	799.6	0.97	0.00	1.81
Timm10	1470.5	71.3	1074.1	421.7	0.45	0.00	2.53	Gucy2c	7639.3	1377.9	3888.8	766.3	0.97	0.00	2.41
Cyp2j4	3228.0	92.1	2355.6	169.4	0.45	0.00	0.47	Dusp12	7658.0	323.5	3887.0	196.8	0.98	0.00	0.31
Plch1	8821.4	750.7	6436.1	616.5	0.45	0.00	0.79	Hibadh	9392.6	1939.0	4748.4	625.5	0.98	0.00	2.16
Dusp14	6322.2	686.8	4611.9	614.2	0.46	0.00	0.95	Edn1	7230.9	1104.8	3652.3	416.5	0.99	0.00	2.09
Pdk2	1463.9	226.0	1067.1	165.8	0.46	0.00	2.48	Lep	15751.8	2787.1	7938.9	2551.8	0.99	0.01	4.87
Trmu	9943.3	2149.5	7247.5	290.5	0.46	0.02	6.57	Rap2ip	5882.1	470.8	2958.5	61.5	0.99	0.00	0.24
Guca1a	5673.2	1078.0	4133.8	687.6	0.46	0.02	5.66	Nr3c1	3867.9	308.6	1941.3	290.2	0.99	0.00	0.79
Prkcdpb	12024.2	1331.8	8755.6	1551.2	0.46	0.02	5.17	Grm8	8415.5	2979.1	4126.3	433.6	1.03	0.02	6.05
Adh1	16767.4	877.3	12204.6	1927.4	0.46	0.01	3.91	Bnip3l	4544.3	1671.2	2214.1	504.3	1.04	0.02	6.49
Ddx5	6718.2	595.7	4885.5	689.3	0.46	0.00	0.79	Shmt2	2924.7	796.6	1423.5	68.1	1.04	0.00	1.86
Dnm1	13416.1	883.4	9740.3	1828.1	0.46	0.01	4.36	Cyb5a	3758.3	150.8	1823.1	189.7	1.04	0.00	0.55
Ran	8700.9	1662.7	6314.1	337.3	0.46	0.02	5.37	Csnk1g1	4281.0	887.8	2069.9	411.2	1.05	0.00	2.53
Rhoa	14979.8	548.4	10869.7	725.5	0.46	0.00	1.09	Aga	2620.7	311.8	1260.6	172.2	1.06	0.00	0.34
Rhot1	10483.8	1942.0	7605.6	715.6	0.46	0.01	3.52	Prkd1	4192.8	1278.4	1976.4	288.0	1.09	0.01	4.51
Rab3d	14123.2	1648.4	10245.3	1723.8	0.46	0.02	5.36	Clock	4684.2	2030.3	2167.7	394.0	1.11	0.03	7.33
Cyp24a1	4343.4	598.3	3148.4	1305.7	0.46	0.05	10.94	Mybbp1a	4825.2	1625.5	2225.4	463.0	1.12	0.02	5.42
Gpam	7728.4	799.2	5593.8	349.7	0.47	0.01	2.65	Cyp1a2	1648.6	238.0	758.7	262.6	1.12	0.00	2.43
Pick1	19076.7	2716.4	13805.3	1673.8	0.47	0.01	4.47	Pfn1	3580.6	365.2	1645.9	494.9	1.12	0.00	2.21
Ppa2	3790.4	575.1	2742.4	452.7	0.47	0.01	4.23	Ddr1	14977.4	1533.1	6816.8	1297.9	1.14	0.00	1.13
Tomm34	4925.4	1209.1	3561.4	710.4	0.47	0.04	9.56	Lcn2	7689.2	235.9	3363.5	630.0	1.19	0.00	0.47

Ppp2r1a	11404.4	1685.0	8214.6	228.6	0.47	0.01	3.37	Nradd	3835.0	608.2	1671.4	197.3	1.20	0.00	1.78
Ndufa10	3485.1	484.3	2510.2	365.9	0.47	0.00	1.32	Grin2d	3950.0	226.0	1719.6	484.0	1.20	0.00	1.60
Mrpl16	2596.4	305.9	1869.6	310.6	0.47	0.00	1.86	Prss2	3023.0	302.1	1312.5	358.2	1.20	0.00	1.78
Cox18	3235.1	1036.2	2326.6	256.3	0.48	0.04	9.27	Casp7	4278.2	209.8	1825.9	277.5	1.23	0.00	0.24
Gstz1	4893.6	1103.0	3516.4	634.7	0.48	0.03	7.75	Pde1a	2785.6	32.5	1165.7	157.3	1.26	0.00	0.50
Mapk8ip3	5590.3	1143.5	4015.3	916.4	0.48	0.04	8.40	Pik3r3	6739.6	3047.3	2817.4	391.0	1.26	0.03	6.86
Atp5i	16306.6	1012.6	11712.0	1819.5	0.48	0.01	3.47	Mrps31	3426.5	338.3	1400.9	296.5	1.29	0.00	0.48
Pik3cb	13488.2	733.5	9685.5	1829.7	0.48	0.01	4.36	Crx	7392.7	3453.3	3019.3	234.2	1.29	0.03	7.01
Lyz2	7822.9	1117.7	5613.1	738.5	0.48	0.01	4.95	Casp8	5791.1	1369.6	2363.7	152.1	1.29	0.00	2.43
Gls2	8919.7	2207.4	6388.2	438.3	0.48	0.03	7.00	Guca2b	3972.0	943.8	1600.2	52.2	1.31	0.00	2.41
Camk4	14732.9	312.0	10528.8	2830.0	0.48	0.02	6.25	Itpr3	9785.5	568.2	3741.0	632.2	1.39	0.00	0.39
Nrg1	11932.3	1342.1	8510.7	1678.7	0.49	0.02	5.42	Mapk8ip1	3576.1	696.8	1340.1	101.6	1.42	0.00	0.48
Chd3	5840.5	376.5	4159.2	631.6	0.49	0.00	0.54	Ogg1	2805.6	662.0	994.1	23.1	1.50	0.00	1.33
Kcnn4	3387.9	414.6	2408.2	362.1	0.49	0.01	2.61	Dbp	4948.3	400.6	1734.4	280.6	1.51	0.00	0.79
Map4k5	5213.9	1265.0	3704.6	553.4	0.49	0.03	7.52	Cyp3a62	3002.7	828.8	1002.6	222.3	1.58	0.00	2.41
Gnb2l1	3196.4	388.2	2270.4	114.0	0.49	0.00	1.84	Sirpa	5124.9	1778.0	1633.3	376.1	1.65	0.01	3.28
Abcb7	20493.2	2308.1	14540.5	907.6	0.50	0.00	2.53	Drd1a	4058.5	1093.3	1274.5	140.5	1.67	0.00	2.41
Usp32	8058.1	1102.5	5715.7	150.4	0.50	0.00	2.53	Ddc	11750.5	707.1	3468.5	306.5	1.76	0.00	0.24
mt-Tf	13387.8	2206.1	9484.8	1165.8	0.50	0.00	1.81	Cyp1a1	4487.8	1134.7	930.1	505.6	2.27	0.00	2.24
Acsl6	11766.9	1460.0	8315.8	736.2	0.50	0.00	1.87								

Supplementary Table 4. 68 Differentially Expressed Genes between Hippocampus (HC) and Hypothalamus (HT)

Gene	Hippocampus		Hypothalamus		HC vs HT			Gene	Hippocampus		Hypothalamus		HC vs HT		
	Mean	SD	Mean	SD	Log2	p	FDR (%)		Mean	SD	Mean	SD	Log2	p	FDR (%)
Mipep	1626.8	420.0	2892.6	643.7	-0.83	0.04	11.77	Hccs	7146.4	863.8	9269.8	1502.3	-0.38	0.03	10.58
Mapk9	2451.1	98.6	4128.9	570.0	-0.75	0.00	2.65	Gucy2d	3151.9	271.5	4081.5	624.5	-0.37	0.03	10.58
Car5a	3915.4	460.6	6323.3	72.9	-0.69	0.00	1.28	Ndufs6	9832.7	294.2	12728.3	1381.9	-0.37	0.00	2.26
Ghrh	3310.2	590.6	5200.2	358.6	-0.65	0.01	4.04	mt-Nd3	8995.0	195.4	11632.2	2299.3	-0.37	0.00	3.06
Gnb1	7446.7	1184.4	11365.8	3386.7	-0.61	0.05	14.30	Chd2	11603.3	733.2	14930.2	1602.5	-0.36	0.00	3.92
Capn3	6042.6	532.9	9191.6	1431.7	-0.61	0.00	2.65	Psma7	10869.1	612.7	13953.7	1430.7	-0.36	0.00	4.04
Top1	2429.4	507.8	3663.0	768.9	-0.59	0.05	14.15	Cox5a	10715.1	1196.7	13718.9	1977.2	-0.36	0.02	9.63
Cpox	2159.3	394.0	3188.1	519.6	-0.56	0.04	11.76	Tomm70a	7140.8	946.6	9122.1	1453.9	-0.35	0.00	3.21
Bsg	7273.6	1153.3	10532.8	1752.3	-0.53	0.00	3.95	Tubb4	4562.3	376.7	5818.6	307.8	-0.35	0.00	3.06
Echdc2	6232.1	422.8	8920.5	64.9	-0.52	0.00	1.28	Mrpl12	10703.0	178.3	13641.7	577.3	-0.35	0.00	2.26
Hspa8	2505.2	532.2	3539.0	512.7	-0.50	0.03	11.75	mt-Atp6	3940.6	201.4	5019.4	266.8	-0.35	0.00	1.28
Creb1	2608.8	290.1	3664.8	458.4	-0.49	0.01	5.01	Mrps15	10616.6	427.4	13500.7	870.7	-0.35	0.00	0.93
Mut	1575.5	171.4	2203.6	248.9	-0.48	0.03	11.46	Ndufv3	3757.4	401.6	4769.8	745.1	-0.34	0.03	11.76
Cyp11a1	6893.1	1941.3	9622.5	2189.4	-0.48	0.05	14.81	Hsd17b10	6648.6	513.2	8431.7	465.1	-0.34	0.00	1.28
Gpx7	11193.4	924.0	15604.2	118.3	-0.48	0.00	2.18	Sf3a1	3781.9	290.8	4794.6	781.5	-0.34	0.02	8.84
Fdx1	5997.3	656.6	8317.3	953.0	-0.47	0.01	6.07	Aco1	6117.5	1037.5	7721.0	918.7	-0.34	0.03	10.58
Prf1	4968.6	814.0	6867.7	247.1	-0.47	0.00	4.04	mt-Nd4l	6486.8	203.5	8186.6	1439.1	-0.34	0.01	5.65
Grpel2	2135.6	433.6	2950.5	216.3	-0.47	0.02	8.11	Rab4b	5291.0	515.0	6665.2	387.5	-0.33	0.00	2.26
Htr1a	5667.5	868.3	7824.8	604.2	-0.47	0.01	5.01	Tmco6	4119.2	478.6	5172.6	440.2	-0.33	0.01	6.07
Glud1	6651.8	1069.8	9107.6	1390.2	-0.45	0.03	10.36	Ckmt2	2596.3	244.3	3258.4	181.4	-0.33	0.01	5.01
Pla2g4a	2080.8	347.6	2820.6	199.5	-0.44	0.02	9.30	Nkrf	12295.9	991.1	15340.7	887.4	-0.32	0.01	4.04
Hspa13	4115.3	241.6	5576.2	630.5	-0.44	0.00	2.65	Comt	3968.0	400.9	4944.2	312.1	-0.32	0.01	5.46
Ddx21	5702.4	689.9	7723.5	855.0	-0.44	0.01	5.35	Grm3	4461.4	82.6	5557.9	1221.7	-0.32	0.03	11.75
Gabpa	1887.6	101.7	2535.2	185.9	-0.43	0.02	8.11	Mrpl40	3192.9	49.1	2537.6	172.5	0.33	0.02	8.84
Mrpl50	10960.2	1948.1	14710.0	2764.4	-0.42	0.02	8.05	Hnrmpc	3503.7	20.2	2742.5	134.5	0.35	0.01	6.07
Gria4	15223.9	3378.6	20222.1	3373.6	-0.41	0.01	4.73	Nr3c1	2496.7	167.2	1941.3	290.2	0.36	0.04	12.02
Neurod1	9762.8	642.0	12901.9	596.7	-0.40	0.00	2.82	Gng5	2465.5	28.6	1871.1	362.9	0.40	0.03	11.76
Bckdhb	2905.7	411.6	3838.0	372.8	-0.40	0.01	6.45	Mfn1	1867.1	112.4	1410.0	295.8	0.41	0.01	4.22

Ddx42	7826.6	620.9	10328.3	397.7	-0.40	0.00	1.28	Casp8	3235.7	148.9	2363.7	152.1	0.45	0.01	4.04
Ddx28	1751.7	184.8	2301.8	367.1	-0.39	0.04	12.57	Crx	4138.7	60.2	3019.3	234.2	0.45	0.01	6.07
Elk3	3943.0	831.6	5176.1	871.1	-0.39	0.04	11.77	Ogg1	1380.0	351.5	994.1	23.1	0.47	0.04	11.76
mt-Nd1	22143.0	5452.7	29018.2	7312.2	-0.39	0.04	12.02	Ddx1	3191.5	368.5	2225.9	312.8	0.52	0.05	15.10
Bckdha	4977.7	454.1	6520.5	1185.9	-0.39	0.01	5.48	Rasgrf1	2654.0	225.2	1836.3	179.6	0.53	0.04	11.76
Slc25a19	7153.8	361.4	9314.5	1804.1	-0.38	0.00	3.95	Cyb5a	2872.2	654.6	1823.1	189.7	0.66	0.04	11.76