List of primers used for RT-PCR studies

clone	gene	Forward primer (5' - 3')	Reverse primer (5' - 3')
4	TMEM1	GATCACAAGATCCATCTGTAGAAGC	TTGTCCTTGATTTTTGGTGCA
6	PRKCBP2	CCCTCCTGTTGTCTCTCCTG	TTAACGGTGGCAAAAGGTGT
9	rA4	ACCAACTACTGTGGGATGATGTAGC	GGGCCTTGAACAAAGGAATA
41	FTCD	TAGTCCCCGATAGTGGACCA	GGCATCAGCATCCACCAA
103	IL10RB	TGGAGTGAACCCATCTGTGA	TGTGTACCAGTGCAGCATCA
117	SIM2	CTACAGCCTCCCCTTCTCCT	GTGGTAGTTGAGCAGCACGA
121	CRYAA	GAGGGCCTTTTTGAGTACGA	ATCCTGCCTCTCGTTGTGTT
131	C21orf2	GCTAGCCGAGTGTACAGCGGA	CAGTCTCCAGCCCCTCCGTAT
132	RUNX1	CTTTTCCGCACCTTATCGATT	CCTCTTCAGAGCAAATCCTTG
182	B3GALT5	ACGACCAGGTTCTTCACAGG	TCTTTCGAGTTCTCCAGTGC
183	RBM11	GCTCAGGAGGAGGCTGACAG	ATCTCACAGAAAGGCGGTTG
186	C21orf11	GGAATGTGGCAAGAGGGATA	TTCTGAAGGGAGCTCAAAGC
198	TSGA2	TGTTCATGAACTTGCCCTGG	GACCAGAGGCACGGCC
211	ITGB2	AAGGAGAAGGACTCGGAAGG	CATGACCGTTGTCGTAGCAC
220	KCNE1	ACACCAGGTTCCCTTGGCTT	CAGCTTCTTGGATCGGATGT
229	WDR4	GGGACAGGAGAGCTATGTGG	CTTCAGCTGCTGCTGCAGTC
246	MX1	CAAAGCCCTGGAAGAGTCTG	GGGATCTGTCTCCCAATATT
562	KIAA0179	GAAGAAGTCCGCAGCCCT	TCTGGGAAGCAACAGGACTC
603	IFNAR2	CCACATAAACGTGACGATGG	GTGACCGTTCAGGGATTATC
659	DNMT3L	GAACGCTGAAGTACGTGGAA	TTGGGCTTGCAGATACTCTT
90	ABCG1	GCAGACAGTGCTGGGGTACT	GCATTTTCTTAACGGGGACA
192	AGPAT3	CTTTCCCTCGCGCTTGTG	GGGAGCAGCTTCCTTCGG
578	BTG3	TCAGGGTCCTCTTCCTCAGA	TCCAGTGATTTCGGTCACAA
601	CBS	TGCGGAACTACATGTCCAAG	TTGCAGACTTCGTCTGATGG
120	CXADR	CTGCACGGTTCAAAACAGAG	CTCCATGTTAGAGGGGGACA
554	DSCR3	GGGAGAATGGTGAACAGTGG	CCAACAGAACAACAGCGAGA
571	DYRK1A	AGGACATCTGGCGATGAGAC	GGGTGGACATGGCTCTTAAA
613	IFNGR2	TGTTCCGGGATGTTTGGC	CAGGCTGCAGCAAGTCATC
615	KIAA0958	CAAAAGGCCACACCTGAGAC	CACAGACCGAGCAGATGTGT
50	LSS	GCTGGTACCCATTCAGGAAA	AGAGAGGAGATGGTGCGGTAC
568	MCM3	ACAGAGTCAACTCGGCTTCC	TAGAGATCCGTCTCCCGTCA
244	MX2	GGCTGAGATCTTCCAGCATC	CAGGAAACACAGGGAAGGAC
130	NCAM2	GTCCAGGTACAGGCTAATCAA	GCCACTTTGTATTCTGATGCT
600	PKNOX1	TCCTCCCCCTCTCTGTTACC	GTGTGCTCAATGGCTGAAGA
559	S100B	AGAGAGGACTCCAGCAGCAA	ACGAAGGCCATGAACTCCT
580	SLC19A1	CAAGGCTTGACCTTCCTAGC	ATAGTTGAGCCCGACACAGGT
638	TFF2	CTCTGGTAGAGGGCGAGAAA	CACCAGGGCACTTCAAAGAT
616	USP16	AGTTATAGGCACAGCTTGCACAT	ATTCCAGCAGGCTGGTTTTA
593	WDR9	GGTCTTGTCCAATAAACATGTGG	CAAAGCGAGAACATCCATTG
594	PRED12	GGAACTGGGAGCTGCTTC	TCCCTGCTACAAAATGGCGTAC
129	C21orf43	GTGACAACTGGTTTTGGTGCA	CAGCTCCGGAGTACATCTGGT
127	CLDN8	GCTCTTCAAATGGCTGCACTG	GCGATGGGATGGTACCGAGTA
609	PRED34	AGGAGCTGGTGGCTACAGAC	GTCAGGTTGTCTTCCCTCTG
126	PCP4	GACCAACGGAAAAGACAAGAC	CAAGGAAAATAGTTGCAGAGG
97	SAMSN-1	GGAACAGTGATCCCATGATTG	TGCTTCTGGGGACCTTTATC
26	NRIP1	TGCATGTATGTATACAGTTGCAAGTC	TGGCAAATTAATATCACTAAGCAGG
643	USP25	CCAACAAGCCCTGAAGGATA	CCGACTGGAGCTTTCTCTTG
168a	C21ORF37	ACCTAGGCTGGAGTGCAGTG	CGGGACTAGCAGGACAGAAG
42	YG81	TCGGAGAAGCAGTCTACCTAGC	TGATGTGGATAGCAGAATTTGG
247	C21orf6	TCTCAGCATGGTTGAGATGG	TACCCACTCTGTGGCATTCA
573a	PRED33	TTCGAGAACAGCGTCAGATG	CTCTTCCTCCTGGACTTCACA

563	kiaa0539	AGCCGTGCAGATCTTGAAAC	GCAGGATTTCCAGAATCCAA
105	TCP10L	GGTAGGAATTTGGTGGGTTG	CCTCGAAGTCATCCAGGAGT
51	GCFC	GGCAGCAAAGCAAACACTTT	AGCATCAGAAAAGCCCAAAA
564	donson	ATCCGTCCTGAACACCAAAG	TGCTCATTTCCCTACGTCTTG
592	CRYZL1	GAGCAGAGGCCTGAAAACAC	GCCTTCTATAGCCCGTGTGA
27	PRED37	TGCATCCTGAACCCATGATA	CGTGACCATTTGGAGTTTGA
199	C21orf51	CAGAACTTCCAGCTCCTTGG	AAAGGTCTAGGCCAGAGTGC
637	HLCS	CTCTCAGAACCGCCATCATT	TTCATGTGAGGCCAAGTCAG
25	DSCR5	CAGCCTCTGCTTTTCCTCAG	ATGGGGACATCTCTCAATGC
576	KCNJ15	AGACCCCGAGTCATGTCAAA	GACCAGTTGGGCGACTAAGA
226	SH3BGR	CTGGGTCCATAGCGATTAGG	TGTCCTCTTTCTGTGCCTCA
119	IGSF5	TTCATGATGCTGGCAGAATG	AAACCCAAGTGTCTGTCATGGT
84	TFF3	TCTGGCTAATGCTGTTGGTG	TCAGATCAGCCTTGTGTTGG
190	UBASH3A	GGTCTCCAACAAGCTCAAGG	TCCTGCCCATCTCTGTCTCT
93	CSTB	CCGACTACTGCTGCCAAGAT	TGCTCAACTCCCTTCTCTCC
194	C21orf33	CAGGAACGTTTTGGCAGAGT	CCGTGCTTTTCTGGGTCTAC
589/2	C21ORF25	CGGAAGAAAAGCACCATCAT	GTCAGGCTCCTCAAGCTGTC
123	BACH1	GCAGATGTCTGACAAGTGCAC	CTGCAATGAGATGATCGACAG
609	C21orf63	AGGAGCTGGTGGCTACAGAC	GTCAGGTTGTCTTCCCTCTG
125	SON	GCTGGGAGCCTGGAGGACTAG	GGTGGGAACTTCATCGGTAGG
180	KIAA0136	CTTCATTTATTTGCAATTCCC	GCTGTTGATTCAGCATGAAGT
128	DSCAM	GGTAGCTTTGATTGGCTCGTT	CTGCCTCCATACCTACGAATG
208	H2BFS	ACAAGGTGCTGAAGCAAGTG	CATCCAGCACTGTTGAGTGG
663	LRRC3	CCCTGTGGGAACTAAAGCTG	CTCCTTGGAGACTGGAGCAC
664	KCNE2-2	AGCAGGGCTTACAGGTCTCA	GCTCTCCTGTCAGTTCAGCA
665	KCNJ6	TTTTTGATCCCCTTGACTGC	GAAATGTCATCTGGGGCTGT
667	MRPS6	GTCCCAGTCCCACTTGAAGA	ACAACCAAGCGTGAATGACA
672	CLDN14	CTTGCTCTCTGCATCCTTCC	GGTCATCTCCTGCCTGTTGT
673	ADAMTS1	TTTCGTCTTACAGCCCAAGG	CCAGAAAGCTGCCATTGTTT
674	DNMTA1	GGTCCTCGGGCCTTATACAT	CCTCTTGGGGAGAGGAGTTC
675	C21orf45	AGGAGGACACCAACTGCATC	TTCAACTCGGCTTTCAAGGT
676	SLC37A1	AGCACCCACGCTCTATGTCT	ACAGGCATCTGCAAACATCA
677	C21orf70	CGTGAGCGATGGTTACAGAA	AGGGGACTGGCTCTGTAGGT
688	GRIK1-2	TTAACCGAAACCGAACCTTG	CAGGACTGCCCTGCTGATAG
722	NDUFV3	TCACGTACCTAAGTGCGACCT	TTTGGAGAGGTCCAGGTTCA
723	HSF2BP	GGCGAGGAGGTCGTCAA	AGGGATAAATCCAGGACTCTCAGT
724	C21orf29-2	ATGCTGCCAGCAGTCTAGCT	ACACAGGAGCACAGCAGGAG
725	DSCAM	CCTCATACACCTGCCTCCAT	TCTTGGGAGCTGCTCATTTT
726	C21orf62	AGCTTCTGTTGCTTGGCATT	CCTATGTGGTTCCAGCACCT
732	TRPC7-2	CACTTCTGCCACAACAGGAA	CCTGTGACTCAGCACTGACC
733	C21orf78	CCCGGTGGTAGATGAGAAAC	CATTTGGAGACCACAGTTGG
734	OLIGO1	GCTGCGCGAAGTTATCCTAC	GTCGAGCGCTAGAGACAGGT
735	PSMD4	GTACATGCGGAACGGAGACT	CTACCGACAAAGGCGATGAT
741	C21orf19	CCCATGCGGGATACACATAC	GCTTTCCATGGCTTTAGCTG
742	C21orf9	TGGCAGTGCTCTGACTTTTC	CCCCAGCTTTCTGAAGCTAA
743	PRED14	TGGTCCTTTATTCAATATGGCTTT	TGGTGCATCTGTTAATATATGTGG
744	PRED38	AATCAAGTGGACACCCCAAG	GAAGATCAGCCCGTAGATGC
745	PRED53-2	GAGGTAAGAGCCAGCAGTGG	GAGGATCTTCCTTGCAGTGG
746	PRED62	CTCTCGTGTCCCTCCTACCC	TCCCCAGGTGAGAAGAGAAG
662	ERG	TCAGAGAGACTCCCCTTCCA	CCCCAGGATCTGGTAAGGAT
668	PRSS7-2	GCTGGAATTCGCCCTTTTTA	TTGTTTTGTCTCCCTACCCC
669	SLC5A3-2	AAGGCGAATGCCCTAAAAAT	CTGCTTCCACACACTTGCAT

670	TMPRSS3-2	TGGATTCACGAACAGTTGGA	TGTGTGCATGAGTTGGTTCA
671	TPTE	ACTACAGGGTCCGCAGAATCA	TCCTTGGAACTTCGAGCTGT

mmu21 genes mapping

clone nb	gene name	Synteny	Hybrid 167EJ (MMU17+3)	Hybrid N9C2/93 (MMU10)	Hybrid SN17C3 (MMU10)	Hybrid SN11C5-3 (MMU3)	Hybrid 96aZ2 (MMU16)	Results PCR	Primer forward (5'-3')	Primer reverse (5'-3')	*in silico* mapping
671	TPTE										MMU8
183	RBM11	MMU16			-		+	MMU16	TCATGCCTCAAAACATCTTTGG	AGGAACGATGAAATGGCGG	MMU16
249	C21ORF73				-		+	MMU16	CGTGGGCTCTCTTGCACA	CTGGAAGGCACTTAGCTCACC	MMU16
44	STCH										MMU16
97	SAMSN-1										MMU16
26	NRIP1				-		+	MMU16	TGCATGTATGTATACAGTTGCAAGTC	TGGCAAATTAATATCACTAAGCAGG	MMU16
640	NRIP1				-		+	MMU16	ATGGAGAAGTGTATGGACTTCTGG	GTTATGTAGGCTGGCTTCTGAGAT	MMU16
643	USP25										MMU16
120	CXADR										MMU16
578	BTG3										MMU16
42	C21ORF91										MMU16
594	C21ORF68				-		+	MMU16	GGAACTGGGAGCTGCTTC	TCCCTGCTACAAAATGGCGTAC	MMU16
130	NCAM2										MMU16
579	MRPL39										MMU16
129	JAM2										MMU16
245	ATP5A										MMU16
99	GABPA										MMU16
250	APP										MMU16
577	ADAMTS5				-		+	MMU16	AAAGCCACTCCTGCGTGG	CCCCTAGCTGGTTATGTTGGT	MMU16
636	ZNF294		-				+	MMU16	AACAAGTCCACTTGCCCGC	GAGGTTGCCTGATTTGAGGAT	
247	C21orf6				-		+	MMU16	TTCCTCACAAGTCACTTTGCG	GCCCGAAATTACAGTGAGGTATG	
251	C21orf6				-		+	MMU16	TTCCTCACAAGTCACTTTGCG	GCCCGAAATTACAGTGAGGTATG	
616	USP16				-		+	MMU16	AGTTATAGGCACAGCTTGCACAT	GGTCAGGGCATTACACTGCC	MMU16
47	CCT8										MMU16
98	C21orf7										MMU16
123	BACH1										MMU16
567	BACH1										MMU16
80	CLDN17										MMU16
127	CLDN8										MMU16
17	PRED29		-				-	unclear	CTTCCAGGCCAGTTGGAGG	AGATGCCTCCCACTGGTTG	MMU16
217	TIAM1										MMU16
221	TIAM1										MMU16
78	SOD1										MMU16
565	SOD1										MMU16
9	CTDBP				-		+	MMU16	ACCAACTACTGTGGGATGATGTAGC	AAGTGGGAACCATAGACACTGTCT	
573	HUNK										MMU16
563	KIAA0539				-		+	MMU16	CATCCTTCTTGTATTTCCTTGCTG	TGGTAAGAAGGCTGCAAAGAAA	
609	C21ORF63										MMU16
105	C21ORF59										MMU16
24	SYNJ1		-				+	MMU16	CCCACACAACTGCAGCTGA	AGAAAGCACTAGCGGTGGC	MMU16
213	SYNJ1				-		+	MMU16	TATGCCACATAAGCGATAAACCTC	AGCTCTGCCTTGTCAGGAAGT	
51	C21ORF66										MMU16
228	C21ORF66		-				+	MMU16	ATAGCGTGATCCAAAGCCCG	ACCTGCTGTAGCGTCCACG	
6	PRKCBP2										MMU16
603	IFNAR2		-				+	MMU16	CCTTCCTGTGGGATTTTTATCA	AAGCCGCAGGAATAATTCTAGG	
103	IL10RB										MMU16
91	IFNAR1		-				+	MMU16	CAGTCAGTGTTTGTGTGAAGGC	CTGCTGGATGTCCTGCCTAC	
613	IFNGR2		-				+	MMU16	TGTTCCGGGATGTTTGGC	CAGGCTGCAGCAAGTCATC	
203	C21orf4										MMU16
118	GART										MMU16
14	SON										MMU16
125	SON										MMU16
202	SON										MMU16
564	donson										MMU16
592	CRYZL1		-				+	MMU16	CCAACTAAGTTTGCCTTTTCCA	CCATTCTTTTAAGCCCAGGG	
218	ITSN										MMU16
114	ATP5O										MMU16
12	C21orf51										MMU16
199	C21orf51		-				+	MMU16	AGCCTTACTGCTGTGGTCTCC	TGCACCCTGAATTTTATCATAACTC	
124	KCNE1										MMU16
220	KCNE1										MMU16
556	DSCR1										MMU16
216	CLIC6										MMU16
132	RUNX1										MMU16
62	C21orf18		-				+	MMU16	GACTGAACGAGTAACCTGGAGTG	GTCACCGTTTAATGGAAACAGTCC	
569	C21orf18		-				+	MMU16	AGACATTTGCTAGAATGACGACAGG	ACCAGGTGGAAGCCTCCTG	
61	CBR1										MMU16
63	CBR1										MMU16
560	CBR1										MMU16
741	C21orf19										MMU7
201	CBR3										MMU16
574	C21orf5		-				+	MMU16	TCTCGCTGTCCGCGTC	TTCCAAAGTATGGCAAGGAATG	
180	KIAA0136										MMU16
188	KIAA0136										MMU16
553	CHAF1B		-				+	MMU16	AATGTTAATCCTTCTGTCTTTGGGC	AAGACATGGGTTAATAGACCAGGAA	
117	SIM2										MMU16
612	SIM2										MMU16
637	HLCS										MMU16
25	DSCR5										MMU16
70	TTC3										MMU16
581	TTC3										MMU16
65	DSCR3										MMU16
554	DSCR3										MMU16
571	DYRK1A										MMU16
209	KCNJ15										MMU16
576	KCNJ15										MMU16
193	ETS2										MMU16
104	DSCR2										MMU16
583	DSCR2										MMU16
593	WDR9		-				+	MMU16	GGTCTTGTCCAATAAACATGTGG	ACATCCATTGAAGTTATGAGTGAGC	
561	HMG14										MMU16
94	WRB										MMU16
226	SH3BGR										MMU16
182	B3GALT5										MMU16
119	IGSF5		-				+	MMU16	TTCATGATGCTGGCAGAATG	AAACCCAAGTGTCTGTCATGGT	
126	PCP4										MMU16
128	DSCAM										MMU16
195	DSCAM										MMU16
107	BACE2										MMU16
186	C21orf11										MMU16

244	MX2										MMU16
246	MX1				-		+	MMU16	CAAAGCCCTGGAAGAGTCTG	GGGATCTGTCTCCCAATATT	
214	TMPRSS2		-	-		-	+	MMU16	TACCGTCACGTTCCCGTATACT	CCTCCAGGGGTCTGTCGA	
223	ANKRD3										MMU16
589	C21orf25		-	-		-	+	MMU16	CAGACATATTTAGGGATTTCTGATTGC	AGGCAGAATCCAAAGTTCAGTG	
23	ZNF295		-	-		-	+	MMU16	AGCTAGCAGGCAGATGTTTAGTGA	ACCAGGCAATCTTTTGAAAGAGA	
207	ZNF295		-	-		-	+	MMU16	AGCTAGCAGGCAGATGTTTAGTGA	ACCAGGCAATCTTTTGAAAGAGA	
662	ERG										MMU16
664	KCNE2										MMU16
665	KCNJ6										MMU16
667	MRPS6										MMU16
668	PRSS7										MMU16
669	SLC5A3										MMU16
672	CLDN14										MMU16
673	ADAMTS1										MMU16
674	DNMTA1										MMU16
675	C21orf45										MMU16
688	GRIK1										MMU16
726	C21orf62										MMU16
725	DSCAM/PRED73										MMU16
733	C21orf78										MMU16
734	OLIGO1										MMU16
735	PSMD4										MMU16
744	PRED38										MMU16
743	PRED14										MMU16
742	C21orf9										MMU16
90	ABCG1	MMU17									MMU17
84	TFF3										MMU17
638	TFF2										MMU17
109	TFF1										MMU17
190	UBASH3A		+	-		-		MMU17	GTTACCAGCAAAACACTGCCA	GGTCTGGGTCCCTTTGTATCTG	
198	TSGA2		+	-		-		MMU17	TGTTCATGAACTTGCCCTGG	GACCAGAGGCACGGCC	
639	PDE9A										MMU17
196	WDR4										MMU17
229	WDR4										MMU17
600	PKNOX1										MMU17
601	CBS		+	-		-		MMU17	AGTTCCTCCGACCCAGATGC	ACTGCAGTGAGGGAGGGAG	MMU17
15	U2AF1										MMU17
121	CRYAA										MMU17
548	SNF1LK										MMU17
572	SNF1LK										MMU17
562	KIAA0179		+	-		-		MMU17	GAAGAAGTCCGCAGCCCT	TGAGTTTGGAGAAAGCAGCG	
670	TMPRSS3										MMU17
676	SLC37A1										MMU17
722	NDUFV3										MMU17
723	HSF2BP										MMU17
656	PDXK	MMU10									MMU10
93	CSTB										MMU10
585	D21S2056E										MMU10
3	AGPAT3										MMU10
192	AGPAT3										MMU10
4	TMEM1										MMU10
116	PWP2H										MMU10
33	C21orf33										MMU10
194	C21orf33										MMU10
659	DNMT3L										MMU10
106	AIRE										MMU10
100	PFKL										MMU10
131	C21orf2		-	?-		-		unclear	CTAGCATTTGCAAGGCCCT	CAGGTGCTGGCTGGTCTC	MMU10
588	UBE2G2		-	+		-		MMU10	TGGAGCCAGGCTGCTCA	GCAGGGACAACAGGCCTG	
81	SMT3H1										MMU10
587	SMT3H1										MMU10
68	PTTG1IP										MMU10
211	ITGB2										MMU10
189	ADARB1		-	+		-		MMU10	CCTCAGTGCACTTCCCGTC	GTAACAGCATCTCATGCTCAGTGC	
615	KIAA0958		-	+		-		MMU10	AACCCTAACTCAGCATCAAGACA	GGGTGACACCACTGCTGG	
115	COL18A1										MMU10
580	SLC19A1		-	+		-		MMU10	TTCAGCGGCGGGATTC	ATAGTTGAGCCCGACACAGGT	
611	PCBP3										MMU10
108	COL6A1										MMU10
110	COL6A2										MMU10
41	FTCD										MMU10
13	C21orf56										MMU10
50	LSS										MMU10
568	MCM3										MMU10
586	PCNT										MMU10
610	KIAA0184										MMU10
559	S100B										MMU10
570	HRMT1L1										MMU10
663	LRRC3										MMU10
677	C21orf70										MMU10
724	C21orf29										MMU10
732	TRPC7										MMU10
746	PRED62										MMU10
745	PRED53										MMU10