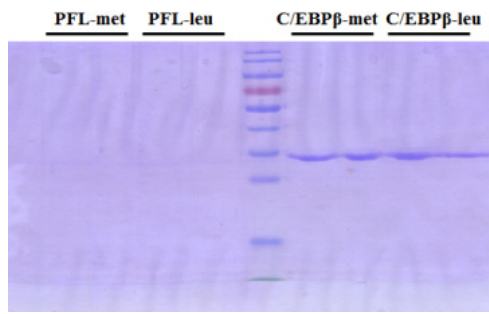


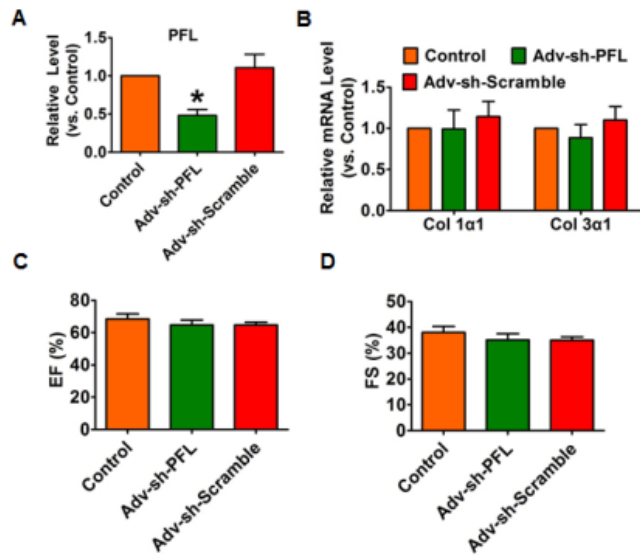
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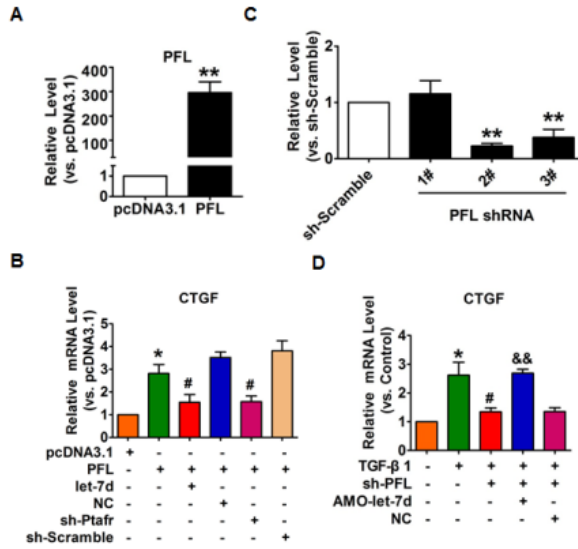
Supplementary Figure 1. The sequence of lncRNA NONMMUT022555 (PFL).



Supplementary Figure 2. In vitro translation assay confirmed the PFL is really a non-coding RNA without protein-coding function. C/EBP β act as a positive control. met: methionine; leu: leucine.



Supplementary Figure 3. Tail vein injection of Adv-sh-PFL in normal mice (A) have no effect on collagen deposition (B) and heart function (C-D). n=7 mice per group, * $p < 0.05$ vs. Control.



Supplementary Figure 4. Knockdown of PFL attenuated fibrogenesis in CFs. (A)

The expression of PFL in cultured CFs transfected with pcDNA3.1 carrying PFL.

** $p < 0.01$ vs. pcDNA3.1; (B) PFL increased the mRNA expression of CTGF. * $p < 0.05$

vs. pcDNA3.1; # $p < 0.05$ vs. PFL; (C) The expression of PFL in cultured CFs

transfection of PFL specific shRNA, only the 2# and 3# shRNA were able to inhibit

the expression of PFL. ** $p < 0.01$ vs. sh-Scramble; (D) Silence of PFL abated

TGF-β1-induced CTGF expression. $n = 5$. * $p < 0.05$, ** $p < 0.01$ vs. Control; # $p < 0.05$ vs.

TGF-β1; && $p < 0.01$ vs. TGF-β1+sh-PFL.

Table S1. Sequences of qRT-PCR primers

Gene name	Forward primer(5'-3')	Reverse primer (5'-3')
<i>Ptafr</i>	GCCCAATAAGGATGGCTCAG	AAGAAGCAGAAGGCGATGAA
Collagen 1 α 1	CAATGGCACGGCTGTGTGCG	CACTCGCCCTCCCGTCTTTGG
Collagen 3 α 1	TTGAATATCAAACCGCAAGGC	GGTCACTTTCCTGGTTGACGA
CTGF	GCTAAGTTCTGCGGGGTGT	GTAATGGCAGGCACAGGTCT
let-7d	GGGAGAGGTAGTAGGTTG	TGGAGTCGGCAATTGCAC
NONMMUT 021928	TGTTCCCTCCTCCCTTGATAG	CCAGAATATCAAACGTCCCAG
NONMMUT 022555	CACCCTTCCACACACAGACA	CACCTGCACCCATACAAACA
NONMMUT 065582	GTAGGTCGAGATGGGTCCAA	GCAGCAAGTATGTGGAGGCA
GAPDH	GGGGCTCTCTGCTCCTCCCTG	CGGCCAAATCCGTTACACCG
U6	GCTTCGGCAGCACATATACTAAAAT	CGCTTCACGAATTTGCGTGTCAT

Table S2. Sequences of shRNA

Gene name	shRNA No.	Target sequences
<i>Ptafr</i>	1#	GCTATGTGCTATGGGTCTTTG TTCAAGAGA CAAAGACCCATAGCACATAGCTTTTTT
	2#	GCTACCAGGCAGTAGCCTATC TTCAAGAGA GATAGGCTACTGCCTGGTAGCTTTTTT
	3#	GCCCATCCTTGTTGTTTCATGT TTCAAGAGA ACATGAACAACAAGGATGGGCTTTTTT
NONMMUT 022555	1#	GGAAGAGTTGGAACATGCTCTTTCAAGAGAAGAGCATGTTCCAACCTTCCTTTTT
	2#	GAAGTCCTAAGGGAGTCAAGATTCAAGAGATCTTGACTCCCTTAGGACTTCTTTTT
	3#	GGAAAGTTGATGGTCCTTAGTTTCAAGAGAACTAAGGACCATCAACTTTCCTTTTT

Ptafr: platelet-activating factor receptor.

Table S3. Predicted miRNAs that contain potential binding sequences for PFL

mmu-let-7g-5p	328 ~ 349	22	ttgacaataaaatgctacctga
mmu-let-7g-5p	965 ~ 990	26	catgaggcaagcactttactatctca
mmu-let-7i-5p	971 ~ 990	20	gcaagcactttactatctca
mmu-let-7i-5p	328 ~ 349	22	ttgacaataaaatgctacctga
mmu-let-7i-5p	869 ~ 894	26	caaaccacagggatcctcctgectct
mmu-miR-1a-1-5p	124 ~ 154	31	agtgataataaaattaaaccttcaagtatgt
mmu-miR-1a-3p	240 ~ 264	25	ccacacattttatgatgacattcca
mmu-miR-23b-5p	142 ~ 165	24	ccttcaagtatgttttaggaactt
mmu-miR-29b-1-5p	836 ~ 861	26	taagtcaccaattaggctaaaccatg
mmu-miR-29b-1-5p	934 ~ 954	21	gttctgggaattaaaccagg
mmu-miR-99b-5p	717 ~ 740	24	tacatgttcatgtttgatgggtg
mmu-miR-125a-3p	1033 ~ 1058	26	aacttgtaaaactaattgtcacctgt
mmu-miR-125a-3p	1446 ~ 1469	24	ttcttcaggaagagtatcatctgc
mmu-miR-130a-3p	1322 ~ 1343	22	ttttgatattgattttgcactt
mmu-miR-9-5p	1405 ~ 1430	26	aattatttctggcaaatgaccaaag
mmu-miR-136-3p	239 ~ 258	20	accacacattttatgatgac
mmu-miR-140-5p	1154 ~ 1175	22	tgaattttatccaaaccactt
mmu-miR-140-5p	854 ~ 878	25	aaaccatgtggccagcaaaccacag
mmu-miR-141-3p	1227 ~ 1249	23	cagaatttataagacagatgttg
mmu-miR-145-3p	1427 ~ 1457	31	aaagaacagattatatttttcttcaggaag
mmu-miR-149-5p	515 ~ 537	23	ttaaaattttatccagagccagt

mmu-miR-150-3p	558 ~ 579	22	ttaaaaaaaaaatctgtaccac
mmu-miR-151-3p	1384 ~ 1404	21	agttgatggccttagtctaa
mmu-miR-182-5p	278 ~ 302	25	tatggtgaggcctacattccaag
mmu-miR-183-5p	1042 ~ 1064	23	aactaattgtcacctgtgccatg
mmu-miR-186-5p	1476 ~ 1497	22	tcccaaagtcaggattcttgt
mmu-miR-186-5p	1421 ~ 1448	28	tgacaaaagaacagattatatttttc
mmu-miR-187-3p	591 ~ 613	23	caccctccacacacagacacag
mmu-miR-190-5p	901 ~ 920	20	caacaattacaacatgtct
mmu-miR-190-5p	1454 ~ 1475	22	gaagagtatcatctgcatatcc
mmu-miR-191-3p	1183 ~ 1204	22	atcaacctactcaaagtgaag
mmu-miR-200b-5p	1071 ~ 1093	23	aacagtagcatgattgtaagata
mmu-miR-201-3p	811 ~ 834	24	tagacacagatattttattgttct
mmu-miR-203-3p	281 ~ 300	20	ggtgaggcctacattcca
mmu-miR-206-3p	240 ~ 264	25	ccacacattttatgatgacattcca
mmu-miR-30e-5p	370 ~ 390	21	attttagcttaagtgtttagc
mmu-miR-290-3p	940 ~ 960	21	ggaattaaaaccaggcactaa
mmu-miR-290-3p	903 ~ 928	26	acaattacaacatgtctggcattta
mmu-miR-291a-3p	960 ~ 981	22	atgctcatgaggcaagcacttt
mmu-miR-292-3p	904 ~ 928	25	caattacaacatgtctggcattta
mmu-miR-292-3p	940 ~ 960	21	ggaattaaaaccaggcactaa
mmu-miR-294-5p	752 ~ 780	29	tcatagagagatcagaagggtttgagg
mmu-miR-294-3p	960 ~ 981	22	atgctcatgaggcaagcacttt
mmu-miR-295-5p	416 ~ 436	21	taagggagtcaagatttgaga

mmu-miR-295-3p	960 ~ 981	22	atgctcatgaggcaagcacttt
mmu-miR-297a-5p	632 ~ 653	22	acacagagacgcacacatacac
mmu-miR-297a-5p	572 ~ 593	22	tgtaccacaagcacagatacac
mmu-miR-298-5p	874 ~ 897	24	cacagggatcctcctgcctctgac
mmu-miR-300-5p	1432 ~ 1453	22	acagattatatttttctcag
mmu-miR-301a-3p	1320 ~ 1343	24	attttgtattgatttgcactt
mmu-miR-302a-3p	954 ~ 981	28	gcactaatgctcatgaggcaagcacttt
mmu-miR-34c-3p	110 ~ 130	21	aatgctcatgattagtata
mmu-miR-34b-3p	110 ~ 130	21	aatgctcatgattagtata
mmu-let-7d-5p	969 ~ 990	22	aggcaagcacttactatctca
mmu-let-7d-5p	873 ~ 894	22	ccacagggatcctcctgcctct
mmu-miR-106a-5p	954 ~ 982	29	gcactaatgctcatgaggcaagcacttta
mmu-miR-106b-5p	958 ~ 982	25	taatgctcatgaggcaagcacttta
mmu-miR-130b-3p	1323 ~ 1343	21	tttgtattgatttgcactt
mmu-miR-19b-2-5p	1022 ~ 1045	24	ccagaactgtaaacttgtaaact
mmu-miR-19b-3p	1318 ~ 1342	25	ggattttgtattgatttgcact
mmu-miR-30c-2-3p	1278 ~ 1299	22	gattcaaaagattttcccat
mmu-miR-148a-5p	1102 ~ 1123	22	ttattaatccctcagaacttt
mmu-miR-148a-5p	1217 ~ 1235	19	actgaattcagaattta
mmu-miR-196a-5p	327 ~ 348	22	ttgacaataaaatgctacctg
mmu-miR-200a-5p	1074 ~ 1093	20	agtagcatgattgtaagata
mmu-let-7a-5p	969 ~ 990	22	aggcaagcacttactatctca
mmu-let-7a-5p	330 ~ 349	20	gacaataaaatgctacctga

mmu-let-7b-5p	969 ~ 990	22	aggcaagcactttactatctca
mmu-let-7b-5p	871 ~ 894	24	aaccacagggatcctcctgcctct
mmu-let-7c-5p	969 ~ 990	22	aggcaagcactttactatctca
mmu-let-7c-5p	873 ~ 894	22	ccacagggatcctcctgcctct
mmu-let-7c-5p	330 ~ 349	20	gacaataaaatgctacctga
mmu-let-7e-5p	873 ~ 894	22	ccacagggatcctcctgcctct
mmu-let-7f-5p	969 ~ 990	22	aggcaagcactttactatctca
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mmu-miR-26b-3p	1057 ~ 1076	20	gtgcatgaacaagaacagt
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mmu-miR-96-5p	762 ~ 787	26	atcagaaggtgtttgagggtcaag
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mmu-miR-96-3p	1066 ~ 1086	21	acaagaacagtagcatgattg
mmu-miR-98-5p	970 ~ 990	21	ggcaagcactttactatctca
mmu-miR-98-5p	330 ~ 349	20	gacaataaaatgctacctga
mmu-miR-322-3p	712 ~ 731	20	gtgtatacatgttcatgttt
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mmu-miR-328-5p	874 ~ 895	22	cacagggatcctcctgcctctg
mmu-miR-328-5p	252 ~ 274	23	tgatgacattccatctgcctca
mmu-miR-148b-5p	1095 ~ 1123	29	tcaaagattatattaatccctcagaacttt
mmu-miR-148b-5p	1008 ~ 1031	24	cacttgattttttccagaactgt
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mmu-miR-135b-3p	276 ~ 295	20	aatatggtgaggtcctacat
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mmu-miR-26a-2-3p	1413 ~ 1436	24	ctggcaaatgacaaaagaacaga
mmu-miR-26a-2-3p	1055 ~ 1076	22	ctgtgccatgaacaagaacagt
mmu-miR-33-5p	90 ~ 111	22	tgccatgccatatttaatgcaa
mmu-miR-221-3p	843 ~ 866	24	ccaattaggctaaacctgtggcc
mmu-miR-29b-2-5p	832 ~ 860	29	tctctaagtcaccaattaggctaaacct
mmu-miR-19b-1-5p	1023 ~ 1045	23	cagaactgtaaacttgtaaaact

mmu-miR-125b-1-3p	196 ~ 213	18	aattccatgtaaccgg
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mmu-miR-466a-5p	230 ~ 248	19	tctgactctaccacacatt
mmu-miR-466a-5p	677 ~ 698	22	cacacacacgtactcacacgtt
mmu-miR-466a-5p	605 ~ 626	22	cagacacagagacacacacaca

mmu-miR-466a-3p	696 ~ 718	23	gttcatgcatgtgtgtgtata
mmu-miR-466a-3p	730 ~ 756	27	ttgtatgggtgcaggatgatgcata
mmu-miR-467a-5p	906 ~ 928	23	attacaaacatgtctggcattta
mmu-miR-467a-3p	699 ~ 720	22	catgcatgtgtgtgtatataca
mmu-miR-468-5p	475 ~ 501	27	ggttttttttttggagcatgagta
mmu-miR-468-5p	910 ~ 936	27	caaacatgtctggcattacattagtt
mmu-miR-468-3p	53 ~ 74	22	tagcccaataatcagtcag
mmu-miR-470-5p	279 ~ 304	26	atggtgaggtcctacattccaagaa
mmu-miR-540-3p	876 ~ 899	24	cagggatcctctgcctctgacat
mmu-miR-539-5p	1195 ~ 1217	23	aaagtcaagtgaatattttca
mmu-miR-539-3p	714 ~ 736	23	gtatacatgttcattgtatg
mmu-miR-541-5p	1083 ~ 1115	33	attgtaagatactcaaagattattaatccctc
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mmu-miR-20b-5p	954 ~ 982	29	gcactaatgctcatgaggcaagcacttta
mmu-miR-450a-2-3p	1462 ~ 1483	22	tcactgcatatcctcccaaaa
mmu-miR-450a-2-3p	27 ~ 48	22	atatttctaaatcctcccaaaa
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mmu-miR-302b-5p	1283 ~ 1308	26	caaaagattttcccatggttaaate
mmu-miR-302b-3p	954 ~ 981	28	gcactaatgctcatgaggcaagcacttt
mmu-miR-302c-3p	954 ~ 980	27	gcactaatgctcatgaggcaagcactt
mmu-miR-302d-5p	1283 ~ 1308	26	caaaagattttcccatggttaaate
mmu-miR-302d-3p	960 ~ 981	22	atgctcatgaggcaagcacttt

mmu-miR-301b-3p	1320 ~ 1343	24	atTTTTgtattgatttgcactt
mmu-miR-592-5p	799 ~ 820	22	aatttatctgcatagacacaga
mmu-miR-1264-3p	1274 ~ 1293	20	ataggattcaaaagatttt
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mmu-miR-551b-5p	1304 ~ 1337	34	aaatctcactttaggattttgtatttgatttt
mmu-miR-551b-5p	1244 ~ 1261	18	atggtgacagttgattta
mmu-miR-668-5p	990 ~ 1014	25	atccatctccttagccaacacttga
mmu-miR-668-5p	959 ~ 982	24	aatgctcatgaggcaagcacttta
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mmu-miR-669a-3p	702 ~ 729	28	gcatgtgtgtgtatacatgttcatgt
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mmu-miR-491-3p	1451 ~ 1474	24	caggaagagtatcatctgcatatc
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mmu-miR-501-3p	723 ~ 744	22	ttcatgtttgtatgggtgcagg
mmu-miR-505-3p	1226 ~ 1252	27	tcagaattataagacagatgttgaca
mmu-miR-721	1321 ~ 1343	23	ttttgtatttgatttgcactt
mmu-miR-871-3p	522 ~ 539	18	tttatccagagccagttt
mmu-miR-881-3p	801 ~ 821	21	tttatctgcatagacacagat
mmu-miR-883b-3p	1234 ~ 1256	23	tataagacagatgttgacagttg
mmu-miR-190b-5p	900 ~ 920	21	ccaacaattacaacatgtct
mmu-miR-190b-5p	1453 ~ 1475	23	ggaagagtatcatctgcatatcc
mmu-miR-190b-3p	1112 ~ 1131	20	cctcagaactttcattcagc

mmu-miR-876-5p	742 ~ 766	25	aggtgatatgcatagagagatcag
mmu-miR-876-3p	1154 ~ 1175	22	tgaatTTTTatccaaaccactt
mmu-miR-105	1319 ~ 1345	27	gattttgtattgatttgcactgt
mmu-miR-297a-3p	697 ~ 718	22	ttcatgcatgtgtgtgtgata
mmu-miR-297a-3p	487 ~ 509	23	ttggagcatgagtatatgtaa
mmu-miR-297c-5p	632 ~ 653	22	acacagagacgcacacatac
mmu-miR-297c-5p	569 ~ 593	25	atctgtaccacaagcacagatac
mmu-miR-297c-3p	697 ~ 718	22	ttcatgcatgtgtgtgtgata
mmu-miR-297c-3p	487 ~ 509	23	ttggagcatgagtatatgtaa
mmu-miR-343	404 ~ 424	21	tttggagtcctaagggagt
mmu-miR-421-5p	101 ~ 129	29	athtaagcaaagctcatgattagtgat
mmu-miR-453	949 ~ 977	29	accaggcactaatgctcatgaggcaagca
mmu-miR-465b-5p	17 ~ 39	23	ctactttctaataattctaaatc
mmu-miR-465c-5p	18 ~ 39	22	tactttctaataattctaaatc
mmu-miR-466b-5p	630 ~ 651	22	acacacagagacgcacacatac
mmu-miR-466b-5p	678 ~ 699	22	acacacacgtactcacacgttc
mmu-miR-466b-5p	230 ~ 249	20	tctgactctaccacacattt
mmu-miR-466b-3p	696 ~ 717	22	gttcatgcatgtgtgtgtgat
mmu-miR-466c-5p	628 ~ 651	24	acacacacagagacgcacacatac
mmu-miR-466c-5p	218 ~ 249	32	gttgaacatgctctgactctaccacacattt
mmu-miR-466c-5p	337 ~ 360	24	aaatgctacctgacaaagacatct
mmu-miR-466c-3p	696 ~ 717	22	gttcatgcatgtgtgtgtgat
mmu-miR-466e-5p	629 ~ 650	22	cacacacagagacgcacacata

mmu-miR-466e-5p	230 ~ 248	19	tctgactctaccacacatt
mmu-miR-466e-5p	677 ~ 698	22	cacacacacgtactcacacgtt
mmu-miR-466e-5p	605 ~ 626	22	cagacacagagacacacacaca
mmu-miR-466e-3p	696 ~ 718	23	gttcatgcatgtgtgtgtata
mmu-miR-466e-3p	730 ~ 756	27	ttgtatgggtgcaggatgatgcata
mmu-miR-466f-5p	677 ~ 698	22	cacacacacgtactcacacgtt
mmu-miR-466f-5p	703 ~ 724	22	catgtgtgtgtgtatacatgtt
mmu-miR-466f-3p	698 ~ 718	21	tcatgcatgtgtgtgtata
mmu-miR-466g	707 ~ 735	29	tgtgtgtgtatacatgttcatgtttgtat
mmu-miR-466h-5p	629 ~ 656	28	cacacacagagacgcacacatacacaca
mmu-miR-467c-3p	698 ~ 719	22	tcatgcatgtgtgtgtatac
mmu-miR-467d-3p	698 ~ 719	22	tcatgcatgtgtgtgtatac
mmu-miR-574-5p	614 ~ 636	23	agacacacacagacacacaca
mmu-miR-574-5p	670 ~ 692	23	aaagacacacacacgtactca
mmu-miR-574-5p	644 ~ 666	23	acacatacacacagacacacaca
mmu-miR-590-3p	121 ~ 139	19	attagtataataaaatta
mmu-miR-590-3p	450 ~ 471	22	ttcatttgatatgctaaaattt
mmu-miR-590-3p	1388 ~ 1409	22	gatggccttagtctaaaatta
mmu-miR-590-3p	504 ~ 523	20	tgtaaatTTcttaaaattt
mmu-miR-590-3p	321 ~ 342	22	tgtaactttgacaataaaatgc
mmu-miR-466d-5p	605 ~ 626	22	cagacacagagacacacacaca
mmu-miR-466d-5p	647 ~ 668	22	catacacacagacacacacaca
mmu-miR-466d-3p	698 ~ 718	21	tcatgcatgtgtgtgtata

mmu-miR-872-5p	188 ~ 212	25	tgtgaagtaattccatgtaaccg
mmu-miR-872-5p	308 ~ 329	22	ttggaattagtgtgtaacttt
mmu-miR-873-5p	683 ~ 703	21	cacgtactcacacgttcacg
mmu-miR-877-3p	68 ~ 89	22	agtcacgagctctgaggagaca
mmu-miR-582-5p	1012 ~ 1033	22	tgattttttccagaactgtaa
mmu-miR-467e-3p	698 ~ 719	22	tcatgcatgtgtgtgtgtatac
mmu-miR-4661-5p	636 ~ 657	22	agagacgcacacatacacacag
mmu-miR-4661-5p	582 ~ 607	26	gcacagatacaccctccacacacag
mmu-miR-4661-5p	660 ~ 681	22	acacacacagaaagacacacac
mmu-miR-669k-5p	680 ~ 706	27	acacacgtactcacacgttcacg
mmu-miR-669k-5p	630 ~ 654	25	acacacagagacgcacacatacaca
mmu-miR-669k-5p	563 ~ 586	24	aaaaaaatctgtaccacaagcaca
mmu-miR-669k-3p	700 ~ 722	23	atgcatgtgtgtgtgtatacatg
mmu-miR-669d-3p	698 ~ 718	21	tcatgcatgtgtgtgtgtata
mmu-miR-466i-5p	617 ~ 636	20	cacacacagacacacacaca
mmu-miR-466i-5p	649 ~ 668	20	tacacacagacacacacaca
mmu-miR-466i-5p	661 ~ 688	28	cacacacagaaagacacacacacgta
mmu-miR-466i-5p	581 ~ 606	26	agcacagatacaccctccacacaca
mmu-miR-466i-3p	696 ~ 717	22	gttcacgcatgtgtgtgtgtat
mmu-miR-1b-5p	132 ~ 155	24	taaaattaaacctcaagtatgtt
mmu-miR-1187	628 ~ 650	23	acacacacagagacgcacacata
mmu-miR-1187	676 ~ 698	23	acacacacacgtactcacacgtt
mmu-miR-1187	598 ~ 624	27	ccacacacagacacagacacacaca

mmu-miR-1187	648 ~ 673	26	atacacacagacacacacagaaag
mmu-miR-1187	222 ~ 248	27	gaacatgctctgactctaccacacatt
mmu-miR-669j	485 ~ 507	23	ttttggagcatgagtatatgta
mmu-miR-669f-5p	644 ~ 668	25	acacatacacacagacacacacaca
mmu-miR-669f-5p	616 ~ 639	24	acacacacacagacacacacagag
mmu-miR-669f-3p	698 ~ 720	23	tcatgcatgtgtgtgtataca
mmu-miR-669i	489 ~ 507	19	tggagcatgagtatatgta
mmu-miR-669h-5p	680 ~ 705	26	acacacgtactcacacgttcatgcat
mmu-miR-669h-3p	699 ~ 722	24	catgcatgtgtgtgtatacatg
mmu-miR-466f	668 ~ 687	20	agaaagacacacacacacgt
mmu-miR-466f	638 ~ 657	20	agacgcacacatacacacag
mmu-miR-466f	604 ~ 625	22	acagacacagagacacacacac
mmu-miR-466f	702 ~ 723	22	gcatgtgtgtgtgtatacatgt
mmu-miR-466k	644 ~ 666	23	acacatacacacagacacacaca
mmu-miR-466k	602 ~ 624	23	acacagacacagagacacacaca
mmu-miR-466k	222 ~ 248	27	gaacatgctctgactctaccacacatt
mmu-miR-466k	674 ~ 696	23	acacacacacacgtactcacacg
mmu-miR-467f	699 ~ 719	21	catgcatgtgtgtgtgtatac
mmu-miR-466j	626 ~ 648	23	agacacacacagagacgcacaca
mmu-miR-466j	698 ~ 720	23	tcatgcatgtgtgtgtataca
mmu-miR-1192	162 ~ 184	23	actttaatcaacattgtttgta
mmu-miR-1194	439 ~ 456	18	agtctctagtattcattt
mmu-miR-669e-5p	620 ~ 642	23	acacacagacacacacagagacg

mmu-miR-467g	698 ~ 718	21	tcatgcatgtgtgtgtata
mmu-miR-1196-3p	557 ~ 572	16	attaaaaaaaaaatct
mmu-miR-1897-5p	1142 ~ 1170	29	tactttcttatgtgaattttatccaaac
mmu-miR-1897-5p	880 ~ 905	26	gatcctcctgcctctgacatccaaca
mmu-miR-1897-5p	508 ~ 532	25	aattttcttaaaattttatccagag
mmu-miR-1892	1463 ~ 1484	22	catctgcatatcctcccaaac
mmu-miR-1892	37 ~ 63	27	atcctcccaaatgcttagcccaaat
mmu-miR-1927	456 ~ 478	23	tgatatgctaaaatttagagggt
mmu-miR-1933-3p	1377 ~ 1398	22	cagggaaagtgtatggctcta
mmu-miR-1935	877 ~ 898	22	agggatcctcctgcctctgaca
mmu-miR-1940	18 ~ 45	28	tactttctaataatttctaaatcctcccc
mmu-miR-1940	1455 ~ 1480	26	aagagtatcatctgcatatcctcccc
mmu-miR-1942	342 ~ 362	21	ctacctgacaagacatctta
mmu-miR-1943-5p	24 ~ 46	23	ctaataatttctaaatcctccca
mmu-miR-1943-5p	1461 ~ 1481	21	atcatctgcatatcctccca
mmu-miR-1306-5p	724 ~ 749	26	tcatgtttgtatgggtgcagggtata
mmu-miR-1306-3p	990 ~ 1010	21	atccatctccttagccaacac
mmu-miR-1947-5p	973 ~ 994	22	aagcactttactatctcatcca
mmu-miR-1950	721 ~ 744	24	tgttcatgtttgtatgggtgcagg
mmu-miR-6691-3p	698 ~ 719	22	tcatgcatgtgtgtgtatac
mmu-miR-6691-3p	730 ~ 757	28	ttgtatgggtgcagggtgatgtcatag
mmu-miR-669m-5p	626 ~ 648	23	agacacacacagagacgcacaca
mmu-miR-669m-5p	698 ~ 720	23	tcatgcatgtgtgtgtataca

mmu-miR-669m-3p	698 ~ 719	22	tcatgcatgtgtgtgtatac
mmu-miR-669o-3p	702 ~ 729	28	gcatgtgtgtgtatacatgttcatgt
mmu-miR-1954	1453 ~ 1472	20	ggaagagtatcatctgcata
mmu-miR-669n	590 ~ 609	20	acaccctccacacacagac
mmu-miR-669n	620 ~ 639	20	acacacagacacacacagag
mmu-miR-669n	642 ~ 659	18	gcacacatacacacagac
mmu-miR-669n	1119 ~ 1140	22	actttcattcagccatacaaaa
mmu-miR-1957	223 ~ 245	23	aacatgctctgactctaccacac
mmu-miR-1967	864 ~ 887	24	gccagcaaaccacagggatcctcc
mmu-miR-1969	242 ~ 268	27	acacatttatgatgacattccatctg
mmu-miR-1969	973 ~ 998	26	aagcactttactatctcatccatctc
mmu-miR-1983	727 ~ 748	22	tgtttgtatgggtgcaggtgat
mmu-miR-1839-5p	220 ~ 243	24	tggaacatgctctgactctaccac
mmu-miR-3057-5p	39 ~ 62	24	cctccccaaatgcttagccccaaa
mmu-miR-3068-5p	217 ~ 240	24	agttggaacatgctctgactctac
mmu-miR-3071-5p	1403 ~ 1425	23	aaaattatttctggcaaatgacc
mmu-miR-3074-1-3p	438 ~ 462	25	aagtctctagtattcatttgatag
mmu-miR-3077-3p	402 ~ 427	26	gattttggaagtcctaaggagtcaa
mmu-miR-3084-5p	127 ~ 149	23	gataataaaaattaacctcaag
mmu-miR-466m-5p	626 ~ 648	23	agacacacacagagacgcacaca
mmu-miR-466m-5p	698 ~ 720	23	tcatgcatgtgtgtgtataca
mmu-miR-466m-3p	693 ~ 716	24	cacgttcatgcatgtgtgtgtga
mmu-miR-669d-2-3p	698 ~ 719	22	tcatgcatgtgtgtgtatac

mmu-miR-669d-2-3p	730 ~ 757	28	ttgtatgggtgcaggatgatgcatag
mmu-miR-466o-5p	630 ~ 651	22	acacacagagacgcacacatac
mmu-miR-466o-5p	678 ~ 699	22	acacacacgtactcacacgttc
mmu-miR-466o-5p	230 ~ 249	20	tctgactctaccacacattt
mmu-miR-466o-3p	695 ~ 716	22	cgttcatgcatgtgtgtgtgta
mmu-miR-466o-3p	729 ~ 753	25	ttgtatgggtgcaggatgatgctc
mmu-miR-669p-3p	702 ~ 728	27	gcatgtgtgtgtgtatacatgttcatg
mmu-miR-466p-5p	630 ~ 650	21	acacacagagacgcacacata
mmu-miR-466p-5p	678 ~ 698	21	acacacacgtactcacacgtt
mmu-miR-466p-5p	230 ~ 248	19	tctgactctaccacacatt
mmu-miR-466p-5p	606 ~ 626	21	agacacagagacacacacaca
mmu-miR-466p-3p	696 ~ 717	22	gttcatgcatgtgtgtgtgat
mmu-miR-466n-5p	628 ~ 649	22	acacacacagagacgcacacat
mmu-miR-3087-5p	253 ~ 273	21	gatgacattccatctgcctc
mmu-miR-3088-5p	790 ~ 814	25	gaagaatgtaatttatctgcataga
mmu-miR-3088-5p	1447 ~ 1474	28	tcttcaggaagagtatcatctgcatatc
mmu-miR-3088-3p	99 ~ 122	24	atatttaatgcaaatgctcatgat
mmu-miR-3088-3p	947 ~ 970	24	aaaccaggcactaatgctcatgag
mmu-miR-3088-3p	525 ~ 547	23	atccagagccagttttcatgat
mmu-miR-3089-3p	1221 ~ 1248	28	gaatttcagaatttataagacagatggt
mmu-miR-3092-5p	1279 ~ 1298	20	atttcaaaagattttcca
mmu-miR-3094-5p	28 ~ 49	22	tatttctaaatcctcccaaat
mmu-miR-3094-3p	456 ~ 476	21	tgatatgctaaaatttagagg

mmu-miR-3094-3p	383 ~ 403	21	tgttagctcttttaaaga
mmu-miR-3096-3p	1090 ~ 1113	24	gatactcaaagattattaatccc
mmu-miR-3096-3p	36 ~ 59	24	aatcctcccaaatgcttagcccc
mmu-miR-3097-5p	1038 ~ 1059	22	gtaaaactaattgtcacctgtg
mmu-miR-3100-3p	734 ~ 757	24	atgggtgcaggtgatatgtcatag
mmu-miR-344b-3p	836 ~ 858	23	taagtcaccaattaggctaaacc
mmu-miR-3103-3p	458 ~ 479	22	atagctaaaatttagaggttt
mmu-miR-3109-5p	973 ~ 996	24	aagcactttactatctcatccatc
mmu-miR-3113-5p	1470 ~ 1491	22	ataticccccaaagtcaggat
mmu-miR-3470a	1184 ~ 1201	18	tcaacctactcaaagtgc
mmu-miR-1186b	1093 ~ 1114	22	actcaaagattatttaacccct
mmu-miR-3962	328 ~ 347	20	ttgacaataaaatgctacct
mmu-miR-3969	1296 ~ 1320	25	ccatggtaaattctcacttagga
mmu-miR-3970	579 ~ 597	19	caagcacagatacacccctt
mmu-miR-5098	189 ~ 209	21	gtgaagtaattccatgtaac
mmu-miR-5101	894 ~ 917	24	tgacatccaacaattacaacatg
mmu-miR-5107	249 ~ 272	24	ttatgatgacattccatctgcct
mmu-miR-5110	976 ~ 1002	27	cactttactatctcatccatctcctta
mmu-miR-5113	876 ~ 896	21	cagggatcctctgcctctga
mmu-miR-5117-5p	820 ~ 847	28	atattttattgtctctaagtcaccaat
mmu-miR-5120	40 ~ 62	23	ctcccaaatgcttagcccaaaa
mmu-miR-5121	563 ~ 584	22	aaaaaaatctgtaccacaagca
mmu-miR-466q	696 ~ 717	22	gttcatgcatgtgtgtgtat

mmu-miR-5129	255 ~ 277	23	tgacattccatctgccctcacia
mmu-miR-1231-3p	859 ~ 882	24	atgtggccagcaaaccacaggat
mmu-miR-5617-5p	527 ~ 554	28	ccagagccagttttcatgatcactta
mmu-miR-5619-5p	106 ~ 130	25	atgcaaatgctcatgattagtata
mmu-miR-5619-3p	519 ~ 543	25	aattttatccagagccagttttca
mmu-miR-5620-5p	870 ~ 895	26	aaaccacaggatcctcctgcctctg
mmu-miR-5623-5p	248 ~ 271	24	tttatgatgacattccatctgcc