

Library Number	RMK002
Library Name	Lipid Metabolism Library
Old Document Name	190624_Lipid metabolism library (Arissa)
Library Purpose	CRISPR/Cas9 Knockout of genes from lipid metabolic pathway in mouse T cells
Location	B3301 in -20 box labeled ACY Lipid Metabolism
Designer Name	Arissa C. Young
Designing Date	7/1/2019
Design Reference	Based off of Ayaka's previous library designs
Usage Reference	Based off of Ayaka's previous usage

Species	Mouse (Mus musculus)
Total Gene #	47
Total Target #	198
Gene Group	
1. Negative Controls	10 random sequences
2. Positive Controls	2 (Rheb and Tsc2)
3. Lipid metabolism pathway	45
Target Number	
1. Negative Controls	$10 * 1 = 10$
2. Positive Controls	$2 * 4 = 8$
3. Lipid metabolism pathway	$45 * 4 = 180$

Number	Target.Gene.Symbol	sgRNA.Target.Sequence
1	Acox1	CGATCCAGACTTCCAACATG
2	Acox1	AATGTCCGATGGCTTGCGGT
3	Acox1	CCTCACAGCACTGTATCGAA
4	Acox1	TCTCTTCATAACCAAACCTG
5	Cpt1a	CACATTGTCGTGTACCACAG
6	Cpt1a	CATACTGCTGTATCGTCGCA
7	Cpt1a	ACCTTGGACCCAAATTGCAG
8	Cpt1a	ACGTTGGACGAATCGGAACA
9	Cpt1b	CCTCAACACCGAACACTCGT
10	Cpt1b	CTCGAACATCCACCCGTGGT
11	Cpt1b	TGATGAAGCATATTACCGCA
12	Cpt1b	TAAGACTGGTCTCATCGTCA
13	Cpt2	TCACTGGTCAAATAAGCCAG
14	Cpt2	TCGGGAAGTCATCTAAGCAG
15	Cpt2	AAATATTGGGACATATCCAG
16	Cpt2	TAAATACATATCAAACCAG
17	Dgat1	AGTGGTTTTAGCAATTATCG
18	Dgat1	AAAGCGCTTTTGTATTCGGG
19	Dgat1	ATACCCGGGACAAAGACGGG
20	Dgat1	GCTCACCAATAATCACGCAT
21	Acsl1	GATGTCAGAACCATGTACGA
22	Acsl1	ATCACCTACATAGTGAACAA
23	Acsl1	TCCACCAGATCACTGCCGT
24	Acsl1	TATGTTTGAGACCGTTGTAG
25	Fasn	CTACCAGGCCATCCGTAGTG
26	Fasn	TGTCTCCGAAAAGAGCCGGG
27	Fasn	TTGGTGGAGCCAATTAACAG
28	Fasn	ACTGGCAATCTGATTGTGAG
29	H2-Ke6	TGCGATCAGCGTGCGCCTAG
30	H2-Ke6	TTCCAAGCGGATGTGTCTCA
31	H2-Ke6	CAGGACACAACGACAGATGG
32	H2-Ke6	CATTAGTAGCATCATTGGAA
33	Hadh	CCTTTCAACCAGCACCGATG
34	Hadh	AGCAAATCGGTCTTGTCTGG
35	Hadh	AAGCATGTGACCGTCATCGG
36	Hadh	TGGCCATACAGTAGTATTGG
37	Mttp	TGAGCGGTCTGGATTACAA
38	Mttp	TGATCAAGTGATCCAAGTCA
39	Mttp	GATATACCACCAGAATCGTA
40	Mttp	ATCCTTTGCAGACACGCTCG
41	Pparg	AATGCTGGAGAAATCAACTG
42	Pparg	AGAACCTTCTAACTCCCTCA
43	Pparg	GCACCCTTGAAAAATTCGGA
44	Pparg	CTGCCTATGAGCACTTCACA
45	Scd1	ATGATAAGGAAGATCCGCAG
46	Scd1	AGGGGCGCTGCTACCGAAG

Number	Target.Gene.Symbol	sgRNA.Target.Sequence
47	Scd1	TCTCGTTCATTTCCGGAGGG
48	Scd1	GGATGAAGCACATCAGCAGG
49	Srebf1	CAGGCTCGAGTAACCCAGCA
50	Srebf1	AATGCCCCAGCCGAAAAGCG
51	Srebf1	TCTGCCTACAGAATCACTGA
52	Srebf1	ACTGCAGCCACACTTCATCA
53	Srebf2	GATGATCCTCGTCTGCGGAG
54	Srebf2	AGCGACCGTCTGTACCGTGG
55	Srebf2	ACTCCAGTGACAGTAACTG
56	Srebf2	CCTTACTGGCACTTGAAGGG
57	Nr1h3	AAAGCAACCCAGTTGACTG
58	Nr1h3	CAAGTACCGTGACGCGCAGG
59	Nr1h3	AATCTCCTGCACGGACACGA
60	Nr1h3	TCCGCCGAGTGTCATCAA
61	Mecr	CGTGCGGTACCAAGCCTCG
62	Mecr	AAGGATCTGACGTCCACGTG
63	Mecr	ATCCAGAATGCATCCAACAG
64	Mecr	AGCACTGATTGGAATCCCTA
65	Acsl4	GTCCAGGGATACGTTACAC
66	Acsl4	GCCCATATCCCTGACCAATG
67	Acsl4	CAATAGAGCAGAGTACCCTG
68	Acsl4	GGAACAGCGGCCATAAGTGT
69	Acaa2	GCCCACGATGAACTATCGA
70	Acaa2	GCTGAGGTCGTCTTGTGTGG
71	Acaa2	CGAGGCTGGCTACTTCAATG
72	Acaa2	CGTCCGTGTTCAAGAAAGAC
73	Mlxipl	CCAGGCTCAAGCACTCGAAG
74	Mlxipl	TGATGCGGAATACCACAAG
75	Mlxipl	TCCCTCAGATGTGCAACGG
76	Mlxipl	TGAGCAGCTGTGTAAGACAG
77	Acss2	GCTGGGAACCTACTACCCGG
78	Acss2	CAGAACGCCGGTGCAGCTCG
79	Acss2	AAGGGAAAATATCACTGAG
80	Acss2	GCATTGTGGTCAAACATCTG
81	Dgat2	GATCTGCCCTGTCACGCGAG
82	Dgat2	CTGGCTCAACAGATCTAAGG
83	Dgat2	AAGGCCCTATTTGGCTACGT
84	Dgat2	GTCTCGGAAGTAGCGCCACA
85	Oxsm	GACAACTCGTCTGCGCAACA
86	Oxsm	GTAGCTGCTTATGTACCAAG
87	Oxsm	AGCATTGCTACAACTCAA
88	Oxsm	CCATCACATCTGCGTCACCA
89	Ehhadh	TTCATATGGATGCTTACGG
90	Ehhadh	CCACATCATGAGGTTACTAG
91	Ehhadh	GTAACCCATAGAACCCCGC
92	Ehhadh	TCACTATGGCTCTAACCGTA

Number	Target.Gene.Symbol	sgRNA.Target.Sequence
93	AcsI3	TGATCACAACGTACCCACGT
94	AcsI3	ACATCATTGCTTCTATAACG
95	AcsI3	TAATGATATGCCGCAGACGT
96	AcsI3	TTATCAAGTGTATCGCAGCC
97	Cpt1c	CCACTCGGACAGGAGTATGT
98	Cpt1c	TCATACTGGGCGGAACACAA
99	Cpt1c	CATTTGCCAGCGCTGTAGCG
100	Cpt1c	TGGGAGAGTGAGTCCCTACA
101	1700061G19Rik	ACAGCTGCAAAAGATTAACC
102	1700061G19Rik	TCCCGACTTGATCATGAGCG
103	1700061G19Rik	TGATAGGGATGTTTACGCTG
104	1700061G19Rik	TATATAACCAGGGTACCACA
105	Acox3	CAAGACGGCAACTCATGCGG
106	Acox3	GCCTCATGGACAGCCCAGCG
107	Acox3	TCAGCACTAGAATCTTCAGG
108	Acox3	GCGCATACTTCCGTACCTGG
109	Echs1	AGTCGGCAAATCGCTAGCAA
110	Echs1	GACAGCCAGAAATCCTCCTG
111	Echs1	GATGACCGGTTTCTTGACCC
112	Echs1	GTGCATTGAGTGCTTTGGGG
113	Acsbg1	AGCACTATGGACAACCCGGG
114	Acsbg1	GGACCTGGTAAACACACTG
115	Acsbg1	CTGCCGAGCCAATGTCATCG
116	Acsbg1	GGATTACCTAGTGTTAGCCA
117	Hadha	ACACTTTGTGCTTTACACCG
118	Hadha	TATTAATTATGGCGTCAAAG
119	Hadha	TTAAAGACACCACAGTGACG
120	Hadha	AAGGACAATTGAATACCTAG
121	Olah	AAAACCAGAACTTACGTGAG
122	Olah	TGCATGCTGTAAGACTGGCT
123	Olah	TTACAAGATCTAAATACCTG
124	Olah	ATTAATCTTTCGGCCCCACT
125	Acacb	AGAACAACGATATCGACACG
126	Acacb	CCAGTGTGCCGACCACATGG
127	Acacb	GTGGCCGTACATGTCGATGG
128	Acacb	TTCATTACGGAACATCTCGT
129	Acly	GAGAGAGATTGACCCCGACG
130	Acly	AGAGCGATTTCGAGATTACCA
131	Acly	TTGTCACCTGTACACGACGG
132	Acly	GGACGAAAAGCTGAATACCG
133	Acaca	GCCATTCATTATCACTACGT
134	Acaca	AATGCATGCGATCTATCCGT
135	Acaca	TTGATTCATAGGTACCGAAG
136	Acaca	AAGCCCTTCGAACATACACC
137	Acat1	GTCCCATACGTAATGAGCAG
138	Acat1	AGTGCTATAAGAACTCCCAT

Number	Target.Gene.Symbol	sgRNA.Target.Sequence
139	Acat1	AGGCAAGCAACACTGGGCGC
140	Acat1	GCCTCTCAAAGTCTTATGTG
141	Acat2	CAAACCTGATGCGTTCGCTG
142	Acat2	CTGAGAACAGGAGTCAGGAT
143	Acat2	TCCTACTCGACAAGCCAGTG
144	Acat2	TGCCTTTCACAACTACCACA
145	Acaa1a	TGTGTGCACTAGGATGACCT
146	Acaa1a	GACACCCTCATCCTGAGACA
147	Acaa1a	CGAGGCCTGCGGGAACCTAG
148	Acaa1a	GGGACATGGACTCCACCCTA
149	Acsf6	AGAGAATCATCATGCCCCCG
150	Acsf6	CTGCTACACGTATTCCATGG
151	Acsf6	TGGCAGTAGACAACAGACTG
152	Acsf6	GCCCCGGGATCTGTGATTGG
153	Mcat	TATCTGGTTAGGTCTGTATG
154	Mcat	GGTCATCTCAGGACACCTTG
155	Mcat	ATGATGTAGCTTCTCCACGG
156	Mcat	AGGAGAAGTTGGACTGACGC
157	Hadhb	ATATACAAGTCTTACCTCAG
158	Hadhb	CTGACAGCAGAAATGGAATG
159	Hadhb	GCATCGGACCAATATTCCA
160	Hadhb	TCAAACCAAGCCATGACCAC
161	Cbr4	CATACCGCCGAGCTCGCCGG
162	Cbr4	GGAGGGTCTATTGTTAATGT
163	Cbr4	TGGTGGCACTGTATGCAGAC
164	Cbr4	AATTTCTTGGTAAATGCAGC
165	Acaa1b	AACCACTGTCCTGAATGACA
166	Acaa1b	GGCGGAAGAAATATTCCCA
167	Acaa1b	TGTGTGCACTAGGATAACTT
168	Acaa1b	GGAGCCAGAGAGATTACCTC
169	Acsf3	CACAGCGGCTAGGTTACGGT
170	Acsf3	CATGAATACGGTAATCTGTG
171	Acsf3	GGCCCACTGTGCTACAACGT
172	Acsf3	ATATGGCCATCACACCTACA
173	Acsbg2	TTCTTGAAGCGTGTACACCA
174	Acsbg2	TCCCGTAGATCTCACCAATG
175	Acsbg2	CCTGACCTTCGCGAACACAA
176	Acsbg2	CACTATCAAGATACTCACGT
177	Acsf5	CTCTGCTCGATCAGACACCT
178	Acsf5	TAGACCCTGTTAAGGAGTCG
179	Acsf5	CGTCATCAAAGGGTCCATG
180	Acsf5	GTACCCAGCGTGCATACAG
181	Tsc2	TGAACCACATGGCTATGACG
182	Tsc2	CACAGGGTGATAATGAACAG
183	Tsc2	CAGCTCAAAGACCCTTGAG
184	Tsc2	CTGATCCTAGCACACATGTG

Number	Target.Gene.Symbol	sgRNA.Target.Sequence
185	Rheb	AACAAACTGAATTGTCAATG
186	Rheb	CCATATCCAACAACCTTGCCA
187	Rheb	TTCAGCTTGTAGACACAGCG
188	Rheb	TCATAGGATACCTATTATGT
189	BRDN0000737505	AAAAAGTCCGCGATTACGTC
190	BRDN0000737693	AAAACGGCTCGATCGGTGAT
191	BRDN0000737637	AAAACGTAATTATACCGAGC
192	BRDN0000738185	AAAATTGCACCTTCCCGGCC
193	BRDN0000737801	AAACCCCGCGCGGAGCGTC
194	BRDN0000737467	AAACCTAGCGTAGATTCGGC
195	BRDN0000737848	AAACGAGGCTGTTCGTACAC
196	BRDN0000737609	AAACTCATACGTAGCGAATC
197	BRDN0000737434	AAACTCCCGTGTCAACCGAT
198	BRDN0000738254	AAAGACGTGCATTCAGCGAG

Original Doc Name: 190624_Lipid metabolism library (Arisa)

Target.Gene.Symbol	sgRNA.Target.Sequence
Acox1	CGATCCAGACTTCCAACATG
Acox1	AATGTCGGATGGCTTGCGGT
Acox1	CCTCACAGCACTGTATCGAA
Acox1	TCTCTTCATAACCAAACCTTG
Cpt1a	CACATTGTCGTGTACCACAG
Cpt1a	CATACTGCTGTATCGTCGCA
Cpt1a	ACCTTGACCCAAATTGCAG
Cpt1a	ACGTTGGACGAATCGGAACA
Cpt1b	CCTCAACACCGAACACTCGT
Cpt1b	CTCGAACATCCACCCGTGGT
Cpt1b	TGATGAAGCATATTACCGCA
Cpt1b	TAAGACTGGTCTCATCGTCA
Cpt2	TCACTGGTCAAATAAGCCAG
Cpt2	TCGGGAAGTCATCTAAGCAG
Cpt2	AAATATTGGGACATATCCAG
Cpt2	TTAAATACATATCAAACCAG
Dgat1	AGTGGTTTCAGCAATTATCG
Dgat1	AAAGCGCTTTCGTATTCGGG
Dgat1	ATACCCGGGACAAAGACGGG
Dgat1	GCTCACCAATAATCACGCAT
Acsl1	GATGTCAGAACCATGTACGA
Acsl1	ATCACCTACATAGTGAACAA

Target.Gene.Symbol	sgRNA.Target.Sequence
Acs11	TTCCACCAGATCACTGCCGT
Acs11	TATGTTTGAGACCGTTGTAG
Fasn	CTACCAGGCCATCCGTAGTG
Fasn	TGTCTCCGAAAAGAGCCGGG
Fasn	TTGGTGGAGCCAATTAACAG
Fasn	ACTGGCAATCTGATTGTGAG
H2-Ke6	TGCGATCAGCGTGCGCCTAG
H2-Ke6	TTCCAAGCGGATGTGTCTCA
H2-Ke6	CAGGACACAACGACAGATGG
H2-Ke6	CATTAGTAGCATCATTGGAA
Hadh	CCTTTCAACCAGCACCGATG
Hadh	AGCAAATCGGTCTTGTCTGG
Hadh	AAGCATGTGACCGTCATCGG
Hadh	TGGCCATACAGTAGTATTGG
Mttp	TGAGCGGTCTGGATTTACAA
Mttp	TGATCAAGTGATCCAAGTCA
Mttp	GATATACCACCAGAATCGTA
Mttp	ATCCTTTGCAGACACGCTCG
Pparg	AATGCTGGAGAAATCAACTG
Pparg	AGAACCTTCTAACTCCCTCA
Pparg	GCACCCTTGAAAAATTCGGA
Pparg	CTGCCTATGAGCACTTCACA
Scd1	ATGATAAGGAAGATCCGCAG

Target.Gene.Symbol	sgRNA.Target.Sequence
Scd1	AGGGGCGCTGCTCACCGAAG
Scd1	TCTCGTTCATTTCCGGAGGG
Scd1	GGATGAAGCACATCAGCAGG
Srebf1	CAGGCTCGAGTAACCCAGCA
Srebf1	AATGCCCCAGCCGAAAAGCG
Srebf1	TCTGCCTACAGAATCACTGA
Srebf1	ACTGCAGCCACACTTCATCA
Srebf2	GATGATCCTCGTCTGCGGAG
Srebf2	AGCGACCGTCTGTACCGTGG
Srebf2	ACTCCAGTGACAGTACTG
Srebf2	CCTTACTGGCACTTGAAGGG
Nr1h3	AAAGCAACCCAGTTGACTG
Nr1h3	CAAGTACCGTGACGCGCAGG
Nr1h3	AATCTCCTGCACGGACACGA
Nr1h3	TTCCGCCGCAGTGTCATCAA
Mecr	CGTGGCGGTACCAAGCCTCG
Mecr	AAGGATCTGACGTCCACGTG
Mecr	ATCCAGAATGCATCCAACAG
Mecr	AGCACTGATTGGAATCCCTA
Acsl4	GTCCAGGGATACGTTACAC
Acsl4	GCCCATATCCCTGACCAATG
Acsl4	CAATAGAGCAGAGTACCCTG
Acsl4	GGAACAGCGGCCATAAGTGT

Target.Gene.Symbol	sgRNA.Target.Sequence
Acaa2	GCCCACGATGACACTATCGA
Acaa2	GCTGAGGTCGTCTTGTGTGG
Acaa2	CGAGGCTGGCTACTTCAATG
Acaa2	CGTCCGTGTTCAAGAAAGAC
Mlxipl	CCAGGCTCAAGCACTCGAAG
Mlxipl	TGATGCGCGAATACCACAAG
Mlxipl	TTCCCTCAGATGTGCAACGG
Mlxipl	TGAGCAGCTGTGTAAGACAG
Acss2	GCTGGGAACCTACTACCCGG
Acss2	CAGAACGCCGGTGCAGCTCG
Acss2	AAGGGAAAATATTCCTGAG
Acss2	GCATTGTGGTCAAACATCTG
Dgat2	GATCTGCCCTGTCACGCGAG
Dgat2	CTGGCTCAACAGATCTAAGG
Dgat2	AAGGCCCTATTTGGCTACGT
Dgat2	GTCTCGGAAGTAGCGCCACA
Oxsm	GACAACTCGTCTGCGCAACA
Oxsm	GTAGCTGCTTATGTACCAAG
Oxsm	AGCATTCGCTACAAACTCAA
Oxsm	CCATCACATCTGCGTCACCA
Ehhadh	TTCATATGGATGCTTCACGG
Ehhadh	CCACATCATGAGGTTACTAG
Ehhadh	GTAAACCCATAGAACCCCGC

Target.Gene.Symbol	sgRNA.Target.Sequence
Ehhadh	TCACTATGGCTCTAACCGTA
AcsI3	TGATCACAACGTACCCACGT
AcsI3	ACATCATTGCTTCTATAACG
AcsI3	TAATGATATGCCGCAGACGT
AcsI3	TTATCAAGTGTATCGCAGCC
Cpt1c	CCACTCGGACAGGAGTATGT
Cpt1c	TCATACTGGGCGGAACACAA
Cpt1c	CATTTGCCAGCGCTGTAGCG
Cpt1c	TGGGAGAGTGAGTCCCTACA
1700061G19Rik	ACAGCTGCAAAGATTAACC
1700061G19Rik	TCCCGACTTGATCATGAGCG
1700061G19Rik	TGATAGGGATGTTTACGCTG
1700061G19Rik	TATATAACCAGGGTACCACA
Acox3	CAAGACGGCAACTCATGCGG
Acox3	GCCTCATGGACAGCCCAGCG
Acox3	TCAGCACTAGAATCTTCAGG
Acox3	GCGCATACTCCGTACCTGG
Echs1	AGTCGGCAAATCGCTAGCAA
Echs1	GACAGCCAGAAATCCTCCTG
Echs1	GATGACCGGTTTCTTGACCC
Echs1	GTGCATTGAGTGCTTTGGGG
Acsbg1	AGCACTATGGACAACCCGGG
Acsbg1	GGACCCTGGTAAACACACTG

Target.Gene.Symbol	sgRNA.Target.Sequence
Acsbg1	CTGCCGAGCCAATGTCATCG
Acsbg1	GGATTACCTAGTGTTAGCCA
Hadha	ACACTTTGTGCTTTACACCG
Hadha	TATTAATTATGGCGTCAAAG
Hadha	TTAAAGACACCACAGTGACG
Hadha	AAGGACAATTGAATACCTAG
Olah	AAAACCAGAACTTACGTGAG
Olah	TGCATGCTGTAAGACTGGCT
Olah	TTACAAGATCTAAATACCTG
Olah	ATTAATCTTTCGGCCCCACT
Acacb	AGAACAACGATATCGACACG
Acacb	CCAGTGTGCCGACCACATGG
Acacb	GTGGCCGTACATGTCGATGG
Acacb	TTCATTACGGAACATCTCGT
Acly	GAGAGAGATTGACCCCGACG
Acly	AGAGCGATTTCGAGATTACCA
Acly	TTGTCACCTGTACACGACGG
Acly	GGACGAAAAGCTGAATACCG
Acaca	GCCATTCATTATCACTACGT
Acaca	AATGCATGCGATCTATCCGT
Acaca	TTGATTCATAGGTACCGAAG
Acaca	AAGCCCTTCGAACATACACC
Acat1	GTCCCATACGTAATGAGCAG

Target.Gene.Symbol	sgRNA.Target.Sequence
Acat1	AGTGCTATAAGAACTCCCAT
Acat1	AGGCAAGCAACACTGGGCGC
Acat1	GCCTCTCAAAGTCTTATGTG
Acat2	CAAACCTGATGCGTTCGCTG
Acat2	CTGAGAACAGGAGTCAGGAT
Acat2	TCCTACTCGACAAGCCAGTG
Acat2	TGCCTTTCACAACTACCACA
Acaa1a	TGTGTGCACTAGGATGACCT
Acaa1a	GACACCCTCATCCTGAGACA
Acaa1a	CGAGGCCTGCGGGAACCTAG
Acaa1a	GGGACATGGACTCCACCCTA
Acsl6	AGAGAATCATCATGCCCCCG
Acsl6	CTGCTACACGTATTCCATGG
Acsl6	TGGCAGTAGACAACAGACTG
Acsl6	GCCCGGCGATCTGTGATTGG
Mcat	TATCTGGTTAGGTCTGTATG
Mcat	GGTCATCTCAGGACACCTTG
Mcat	ATGATGTAGCTTCTCCACGG
Mcat	AGGAGAAGTTGGACTGACGC
Hadhb	ATATACAAGTCTTACCTCAG
Hadhb	CTGACAGCAGAAATGGAATG
Hadhb	GCATCGGACCAATATTCCAA
Hadhb	TCAAACCAAGCCATGACCAC

Target.Gene.Symbol	sgRNA.Target.Sequence
Cbr4	CATACCGCCGAGCTCGCCGG
Cbr4	GGAGGGTCTATTGTTAATGT
Cbr4	TGGTGGCACTGTATGCAGAC
Cbr4	AATTTCTTGGTAAATGCAGC
Acaa1b	AACCACTGTCCTGAATGACA
Acaa1b	GGCGGGAAGAAATATTCCCA
Acaa1b	TGTGTGCACTAGGATAACTT
Acaa1b	GGAGCCAGAGAGATTACCTC
Acsf3	CACAGCGGCTAGGTTACGGT
Acsf3	CATGAATACGTAATCTGTG
Acsf3	GGCCCACTGTGCTACAACGT
Acsf3	ATATGGCCATCACACCTACA
Acsbg2	TTCTTGAAGCGTGTACACCA
Acsbg2	TCCCGTAGATCTCACCAATG
Acsbg2	CCTGACCTTCGCGAACACAA
Acsbg2	CACTATCAAGATACTCACGT
AcsI5	CTCTGCTCGATCAGACACCT
AcsI5	TAGACCCTGTTAAGGAGTCG
AcsI5	CGTCATCAAAAGGGTCCATG
AcsI5	GTACCCAGCGTGTACATACAG
Tsc2	TGAACCACATGGCTATGACG
Tsc2	CACAGGGTGATAATGAACAG
Tsc2	CAGCTCCAAAGACCCTTGAG

Target.Gene.Symbol	sgRNA.Target.Sequence
Tsc2	CTGATCCTAGCACACATGTG
Rheb	AACAAACTGAATTGTCAATG
Rheb	CCATATCCAACAACCTTGCCA
Rheb	TTCAGCTTGTAGACACAGCG
Rheb	TCATAGGATACCTATTATGT
BRDN0000737505	AAAAAGTCCGCGATTACGTC
BRDN0000737693	AAAACGGCTCGATCGGTGAT
BRDN0000737637	AAAACGTAATTATACCGAGC
BRDN0000738185	AAAATTGCACCTTCCCGGCC
BRDN0000737801	AAACCCCGCGCGGAGCGTC
BRDN0000737467	AAACCTAGCGTAGATTCGGC
BRDN0000737848	AAACGAGGCTGTTCGTACAC
BRDN0000737609	AAACTCATACGTAGCGAATC
BRDN0000737434	AAACTCCCGTGTCAACCGAT
BRDN0000738254	AAAGACGTGCATTTCAGCGAG