

Supplemental Table 1. siRNA sequences (A). The first column in the table indicates the passenger strand from 5' to 3' end and the second column is the guide strand from 3' to 5' end. Abbreviations for the modifications are as follows: d (deoxy), flu (2' fluoro), ome (2'-O-methyl), ribo (ribose), iB (inverted abasic nucleotide). siRNA screen (B).

Supplemental Table 2. Gene expression changes at day 14 for control PBS, control siRNA, ApoB and Mtp siRNA treatments. Genes within the triglyceride synthesis (SREBP1c) pathway are highlighted (brown).

Supplemental Table 1

A	Passenger Strand	Guide Strand
control siRNA	iB;fluU;fluC;fluU;fluU;fluU;fluU;dA;dA;fluC;fluU;fluC; fluU;fluC;fluU;fluU;fluC;dA;dG;dG;dT;dT;iBSup	fluC;fluC;fluU;omeG;omeA;omeA;omeG;omeA;omeG;omeA;omeG;f luU;fluU;omeA;omeA;omeA;rA;rG;rA;omeU;omeUSup
Dgat2	abe;fluC;fluU;dG;fluU;dA;dA;fluU;fluU;fluU;dG;d G;dA;dA;dG;fluC;dG;fluU;fluC;dT;dT;iBSup	rG;rA;rC;omeG;fluC;fluU;fluU;fluC;fluC;omeA;omeA;fluU;fluU;f luU;omeA;fluC;omeA;omeG;omeU;omeUSup
Mtp	[iB][dG][dA][fluU][dA][fluU][dG][fluC][fluU][dA][fluU][dG][dA][fluC][dG][fluU][dG][fluC][fluC][fluU]dTdT[iB]	rA;rG;rG;fluC;omeA;fluC;omeG;fluU;fluC;omeA;fluU;omeA;omeG;flu C;omeA;fluU;omeA;fluU;fluC;omeU;omeUSup
ApoB	iB;fluU;fluC;dA;fluU;fluC;dA;fluC;dA;fluC;fluU;dG;d A;dA;fluU;dA;fluC;fluC;dA;dA;dT;dT;iBSup	rU;rU;rG;omeG;fluU;omeA;fluU;fluU;fluC;omeA;omeG;fluU;omeG;flu U;omeG;omeA;fluU;omeG;omeA;omeU;omeUSup

B	siRNA	% Expression	EC50 (pM)
	Dgat2	25	20
	Mtp	7	2
	ApoB	6	99

Gene	PBS			Cntrl			ApoB			Mtp	
	Ave Fold Reg	p-value	Mtp								
Aacs	-2.08	0.447	-0.08	N/A	-2.6	0.003	-2.6	0.005			
Acaca	-0.87	0.419	-0.1	N/A	-2.08	0.003	-2.79	0.004			
Acacb	-1.94	0.66	0.11	N/A	-4.81	0.001	-4.68	0.002			
Acat2	-2.11	0.149	0.12	N/A	-2.14	0.015	-2.49	0.005			
Acly	-1.55	0.948	-0.11	N/A	-1.75	0.063	-2.66	0.015			
Acsf2	-0.95	0.527	0.12	N/A	0.5	0.793	-1.35	0.111			
Acsl1	-3.36	0.082	-0.02	N/A	-1.26	0.258	-1.44	0.097			
Acsl3	-1.47	0.274	-0.29	N/A	-1.85	0.055	-2.67	0.017			
Acsl4	-1.36	0.344	-0.28	N/A	-2.02	0.033	-1.7	0.083			
Acsl5	-1.37	0.30	-0.30	N/A	-2.24	0.01	-2.57	0.00			
Acss2	-2.63	0.19	0.21	N/A	-3.49	0.00	-4.53	0.00			
ActB	0.01	1.00	0.14	N/A	1.00	1.00	1.00	1.00			
Adi1	-2.97	0.06	-0.55	N/A	-1.78	0.14	-1.88	0.03			
Agpat1	-0.75	0.54	0.27	N/A	-1.27	0.42	-1.22	0.22			
Agpat2	-1.26	0.36	-0.35	N/A	-1.67	0.04	-1.81	0.02			
Agpat3	-1.39	0.24	-0.31	N/A	-1.67	0.06	-1.71	0.06			
Agpat4	-0.34	0.93	0.06	N/A	0.10	0.90	-0.78	0.42			
Agpat5	-0.23	0.81	-0.07	N/A	-1.05	0.29	-0.84	0.29			
Agpat6	-0.68	0.55	0.06	N/A	-0.80	0.34	-1.37	0.17			
Agpat9	-1.75	0.22	-0.35	N/A	-1.11	0.28	-1.84	0.06			
Angptl4	0.37	0.81	0.11	N/A	-0.21	0.97	0.90	0.21			
ApoA1	-1.96	0.08	-0.39	N/A	-1.93	0.02	-1.60	0.07			
ApoB	-1.08	0.25	-0.35	N/A	-8.27	0.00	-1.23	0.13			
ApoC3	-1.00	0.29	-0.36	N/A	-1.00	0.38	-1.06	0.29			
ApoE	-1.11	0.17	-0.36	N/A	-1.08	0.23	-1.01	0.30			
Baat	-0.53	0.56	-0.14	N/A	-0.72	0.28	-1.11	0.16			
Cds1	-1.29	0.24	-0.26	N/A	-1.86	0.07	-2.14	0.04			
Chpt1	-1.41	0.27	-0.61	N/A	-1.45	0.14	-1.81	0.03			
Cyb5r3	-1.99	0.13	-0.38	N/A	-1.91	0.01	-1.99	0.00			
Cyp27a1	-1.50	0.18	-0.05	N/A	-1.77	0.06	-1.57	0.11			
Cyp39a1	-1.72	0.24	-0.26	N/A	-3.00	0.00	-2.77	0.02			
Cyp46a1	-2.14	0.25	0.34	N/A	-1.27	0.14	-2.30	0.01			
Cyp51a1	-0.95	0.47	0.15	N/A	-2.31	0.00	-2.13	0.00			
Cyp7a1	-0.49	0.64	-0.13	N/A	-0.57	0.53	-2.23	0.10			
Cyp7b1	0.77	0.60	0.19	N/A	1.19	0.42	1.80	0.26			
Cyp8b1	-1.29	0.25	0.40	N/A	-2.47	0.00	-3.05	0.03			
Dgat1	-1.37	0.35	-0.12	N/A	-1.57	0.04	-1.81	0.01			
Dgat2	-0.72	0.50	0.15	N/A	-0.18	0.84	-1.45	0.06			
Dhcr24	-0.16	0.85	0.14	N/A	-1.90	0.00	-2.27	0.01			
Dhcr7	-1.05	0.34	0.14	N/A	-1.80	0.00	-2.24	0.00			
Elov11	-0.01	0.95	-0.14	N/A	-0.80	0.08	-0.61	0.27			
Elov12	-0.72	0.59	-0.42	N/A	-3.55	0.00	-2.99	0.00			
Elov13	-1.94	0.09	-0.29	N/A	-3.80	0.00	-1.19	0.53			
Elov14	3.37	0.07	-0.23	N/A	1.79	0.23	1.93	0.16			
Elov15	-1.97	0.23	-0.13	N/A	-5.22	0.00	-5.67	0.00			
Elov16	-2.13	0.53	-0.14	N/A	-3.19	0.00	-4.00	0.00			
Fads1	-1.48	0.47	0.14	N/A	-3.49	0.00	-3.37	0.00			
Fads2	-1.63	0.40	0.38	N/A	-3.72	0.00	-3.66	0.00			
Fads3	-0.05	0.95	0.14	N/A	-0.50	0.73	-0.47	0.76			
Fasn	-1.54	0.39	0.08	N/A	-2.45	0.00	-7.43	0.00			
Fdft1	2.23	0.20	-0.36	N/A	-0.62	0.55	-0.54	0.68			
Fdps	-0.01	0.81	-0.15	N/A	-2.87	0.00	-3.33	0.01			
Gpat	-0.91	0.65	0.03	N/A	-1.09	0.35	-3.89	0.04			
Gpr65	-0.21	0.64	0.14	N/A	-0.52	0.60	-0.53	0.65			
Haa0	-0.16	0.85	-0.12	N/A	-0.90	0.27	-1.03	0.09			
Hmgcr	-0.93	0.64	-0.43	N/A	-1.47	0.00	-2.17	0.00			
Hmgcs1	-1.05	0.25	0.15	N/A	-2.06	0.00	-2.25	0.01			
Hsd17b6	-1.15	0.51	0.19	N/A	-0.11	0.98	-2.22	0.15			
Hsd3b7	0.55	0.72	-0.28	N/A	-0.51	0.78	-0.59	0.63			
Idi1	-1.30	0.22	-0.14	N/A	-2.52	0.00	-2.72	0.01			
Lcat	0.00	0.94	-0.13	N/A	-1.19	0.28	-0.87	0.43			
Ldlr	-0.81	0.46	-0.14	N/A	-1.42	0.02	-2.02	0.00			
Lpcat4 (Agpat7)	-0.04	0.88	0.14	N/A	-0.22	0.72	-0.31	0.45			
Lrp8	0.67	0.47	0.37	N/A	0.24	0.82	0.83	0.38			
Lycat (Agpat8)	-1.03	0.27	-0.13	N/A	-0.58	0.32	-0.89	0.05			

Mogat1	-0.92	0.48	0.11	N/A	0.51	0.71	-3.03	0.08
Mogat2	-0.57	0.60	-0.15	N/A	1.19	0.30	-2.17	0.08
Mtp	-0.64	0.63	-0.15	N/A	-1.59	0.00	-6.86	0.00
Mvd	-0.06	0.93	0.13	N/A	-1.81	0.09	-2.58	0.30
Mvk	0.68	0.58	0.14	N/A	0.51	0.39	-0.21	0.71
Pcsk9	-0.08	1.00	0.13	N/A	-1.59	0.01	-2.46	0.01
Pcyt2	-0.80	0.37	0.14	N/A	-1.63	0.00	-1.69	0.00
Pmvk	-1.63	0.15	0.38	N/A	-3.21	0.00	-3.27	0.01
Ppap2a	-74.81	0.00	-0.13	N/A	-50.58	0.27	-26.10	0.61
Ppap2b	0.33	0.78	0.14	N/A	-0.93	0.21	-1.70	0.00
Ppap2c	-0.17	0.87	-0.13	N/A	-0.88	0.39	-0.34	0.39
Ppara	-0.65	0.64	0.14	N/A	-0.73	0.21	-1.33	0.04
Ppard	-0.54	0.56	-0.36	N/A	-2.16	0.02	-0.52	0.81
Pparg	-0.37	0.93	-0.13	N/A	-2.00	0.00	-1.21	0.04
Ppia	-0.29	0.85	-0.14	N/A	-0.92	0.28	-0.59	0.41
Scap	0.09	0.90	-0.12	N/A	-1.04	0.06	-0.66	0.19
Scarb1	0.27	0.87	-0.11	N/A	-0.87	0.49	-0.46	0.87
Scd1	-1.47	0.18	0.14	N/A	-4.92	0.00	-5.56	0.00
Scd2	0.21	0.79	0.14	N/A	0.48	0.67	-0.03	0.78
Sgpl1	0.49	0.79	-0.14	N/A	-1.09	0.09	-1.18	0.05
Sgpp1	0.06	0.98	0.42	N/A	-0.98	0.13	-1.07	0.08
Slc27a5	-0.36	0.83	0.17	N/A	-0.57	0.57	-0.96	0.34
Soat1	0.22	0.77	-0.15	N/A	-0.51	0.53	-0.15	0.93
Soat2	-0.39	0.60	0.15	N/A	-0.55	0.39	-1.76	0.00
Sptlc1	0.06	0.95	-0.14	N/A	-1.35	0.04	-1.42	0.01
Srebf2	-0.24	0.61	0.42	N/A	-0.71	0.07	-1.13	0.02
Stard3	0.29	0.75	0.14	N/A	-0.83	0.41	-0.26	0.52
Tm7sf2	-0.95	0.47	0.14	N/A	-2.55	0.00	-3.10	0.00
Vldlr	-23.98	0.43	-0.18	N/A	-0.96	0.81	-1.97	0.20
Xpnpep3	0.08	0.98	0.14	N/A	0.74	0.82	-0.22	0.68