

Abbreviated Title: Down regulation of hepatic HNF4 α by insulin and SREBPs (Xie et al.)

Table S1. Primers and siRNA used in this study

Primers for quantitative RT-PCR					
MOUSE	NM	Position	Product (bp)	Forward (5' to 3')	Reverse (5' to 3')
<i>Hnf4a</i> (HNF4 α)	NM_008261	+658 to +1083	426	ATTGCCAACATCACAGACG	GTAATCCTCCAGGCTCACTT
<i>Pck1</i> (PEPCK)	NM_011044	+155 to +423	269	GCATAACGGTCTGGACTTCT	TGATGACTGTCTTGCTTTCG
<i>G6pc</i> (G6Pase)	NM_008061	+1197 to +1451	255	ACTAAAGCCTCTGAAACCC	AGATTCTGCACCGCAAG
<i>Cyp7a1</i> (CYP7A1)	NM_007824	+84 to +309	226	GGGGATTGCTGTGGTAG	CAGGGAGTTTGTGATGAAG
<i>Pklr</i> (L-PK)	NM_013631	+384 to +594	211	GCACGACTCAACTTCTCCC	CCAGCACCTGTGAACCCT
<i>Scd1</i> (SCD-1)	NM_009127	+431 to +647	217	CCTGCCTCTTCGGGATT	TTGTGAGGGTCGGCGTGT
<i>Fasn</i> (FAS)	NM_007988	+1249 to +1465	217	GGGTCTATGCCACGATT	CACAGGGACCGAGTAATG
<i>Ldlr</i> (LDLR)	NM_010700	+1662 to +1812	151	CAGTCCCAGGCAGCGTAT	TTGATCTTGGCGGGTGT
<i>Hmgcr</i> (HMGCR)	NM_008255	+2569 to +2687	120	GGACCAACCTTCTACCTC	CCATCACAGTGCCACATAC
<i>Actb</i> (β -Actin)	NM_007393	+809 to +948	140	GACGGCCAGGTCATCACTAT	CGGATGTCAACGTCACACTT
<i>Srebf1</i> (SREBP1)	NM_011480	+1770 to +2048	279	ACTTCTGGAGACATCGCAAAC	GGTAGACAACAGCCGCATC
<i>Srebf2</i> (SREBP2)	NM_033218	+157 to +287	131	GCGTTCTGGAGACCATGGA	ACAAAGTTGCTCTGAAAACAAT CA
RAT	NM	Position	nt	Forward (5' to 3')	Reverse (5' to 3')
<i>Hnf4a</i> (HNF4 α)	NM_022180	+149 to +278	130	GGTGCCAACCTCAACTC	CGCTCCTCCTGAAGAAT
<i>Pck1</i> (PEPCK)	NM_198780	+620 to +853	234	GCTGACAGACTCGCCCTAT	CCACCGTATCCGCTTCC
<i>G6pc</i> (G6Pase)	NM_013098	+818 to +1067	250	TCCACCTTGACACTACACCC	GGGACGGTCGCACTCTT

Table S1. Primers used in this study (cont)

<i>Cyp7a1</i> (CYP7A1)	NM_012942	+535 to +736	202	TCACGGAAGGGATGTA	GCTTTATGTGCGGTCT
<i>Actb</i> (β -Actin)	NM_031144	+826 to +1015	190	ACTATTGGCAACGAGCGGTT	TGTCAGCAATGCCTGGGTACA

Primers for ChIP					
HUMAN		Position	Set	Forward (5' to 3')	Reverse (5' to 3')
<i>LDLR</i> (LDLR)		-285 to -22		CATCGAGAAATTTTCAGGAGGA	AATGTGAGGTTTCTAGCAGGG
<i>HNF4A</i> (HNF4 α)		-116 to +97	1	TAACCATTAACCCCCACCCCT	AGTCGCATTCTCCCTGCCT
<i>HNF4A</i>		-283 to -8	2	AAATGAGTGCCCGTGAGTCAT	TCTCTGCCTTCCTTTCAAACC
<i>HNF4A</i>		-432 to -162	3	TCTGCAAAAGCATTGAGGGT	TGGCTGTTTGTGGTTTCTG
<i>HNF4A</i>		-999 to -658	4	TAGGAGACGGGTGGAGAGAAA	AGTGTTTCTGGCCAGGCT

Primers for construction of hHNF4-luc					
HUMAN		Position		Forward (5' to 3')	Reverse (5' to 3')
<i>HNFA</i> (HNF4 α)		-624 to +89*		<u>GCACTCGAGATCACAGGGAGCAGGAGC</u>	<u>GAGAAGCTTTCTCCCTGCCTCCAC</u>

*Underlined sequence added for cloning purposes

dsRNA for siRNA					
HUMAN	NM	Position		Forward (5' to 3')	Reverse (5' to 3')
<i>HNFA</i> (HNF4 α)	NM_000457	+179 to +197		UGUGCAGGUGUUGACGAUGdTdT	CAUCGUCAACACCUGCACAdTdT
<i>SCAP</i> (SCAP)	NM_012235	+579 to +597		CCUCCUGGCAGUAGAUGUAdTdT	UACAUCUACUGCCAGGAGGdTdT
Firefly	negative control			Forward (5' to 3')	Reverse (5' to 3')
<i>Luc</i> (Luciferase)	"siGL3"			CUUACGCUGAGUACUUCGAdTdT	GAAUGCGACUCAUGAAGCUdTdT

Primers for RT-PCR (to verify siRNA)				
HUMAN	NM	Position	Forward (5' to 3')	Reverse (5' to 3')
<i>SCAP</i> (SCAP)	NM_012235	+1111 to +1544	ATCCCCCTTGTGACCACCTA	AAGAAGTCAGACACCAGCCC
<i>ACTB</i> (β -Actin)	NM_001101	+523 to +974	CGTACCACTGGCATCGTGAT	GTGTTGGCGTACAGGTCTTTG