

SUPPLEMENTAL MATERIALS for “Identification of Novel Genes Mediating Circulating Fibrinogen Levels”

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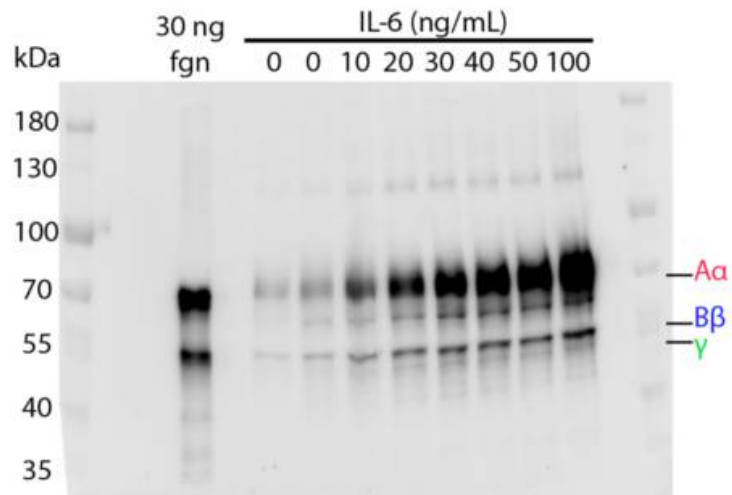
Supplemental Table 1. siRNAs used in the study

Gene Target	Catalog #	siRNA ID #	Lot #
FGA	4392420	S534251	ASO2EY93
FGB	4392420	S5119	ASO2DYPO
FGG	4392420	S5181	ASOEMXU
IL6R	AM16708	106148	ASOCNEW
EEPD1	4392420	S37411	ASO2FL0E
COLEC11	4392420	S35371	ASO2GLZG
IRF1	4392420	S7501	ASO2HNZ4
JMJD1C	4392420	S47943	ASO2GLZE
ATXN2L	4392420	S2257	ASO2H6RZ
GRAMD4	4392420	S23148	ASO2HNZ3
IFT122	4392420	S31456	ASO2HMKB
PSMG1	4392420	S16408	ASO2GVPS
HDLBP	4392420	S6504	ASO2EV5F
SH2B3	4392420	S532880	ASO2E92S
SEPT2	4392420	S9420	ASO2E92T
SPPL2A	4392420	S39577	ASO2H7LI
SNX13	4392420	S23165	ASO2H6RY
CHD9	4392420	S37052	ASO2GVPO
RAB5C	4392420	S11710	ASO2GVPU
IL1R1	4392420	S7273	ASO2H7LH
PRR12	4392420	S33123	ASO2HMKA
DIP2B	4392420	S33432	ASO2GYPT
SEPT7	4392420	S2742	ASO2E92U
ZFP36L1	4392420	S2090	ASO2H6SO
LIPA	4392420	S532262	ASO2FL0H
TTC17	4392420	S226864	ASO2H6RT
LEPR	4392420	S8138	ASOGLZD
PDIA5	AM16708	111721	ASO2CNEX
PLEC	4392420	S531205	ASO2HMK9
SHANK3	4392420	S39916	ASO2H6RX
CPS1	4392420	S3464	ASO2H6RU

Supplemental Table 2. Primers used in the study

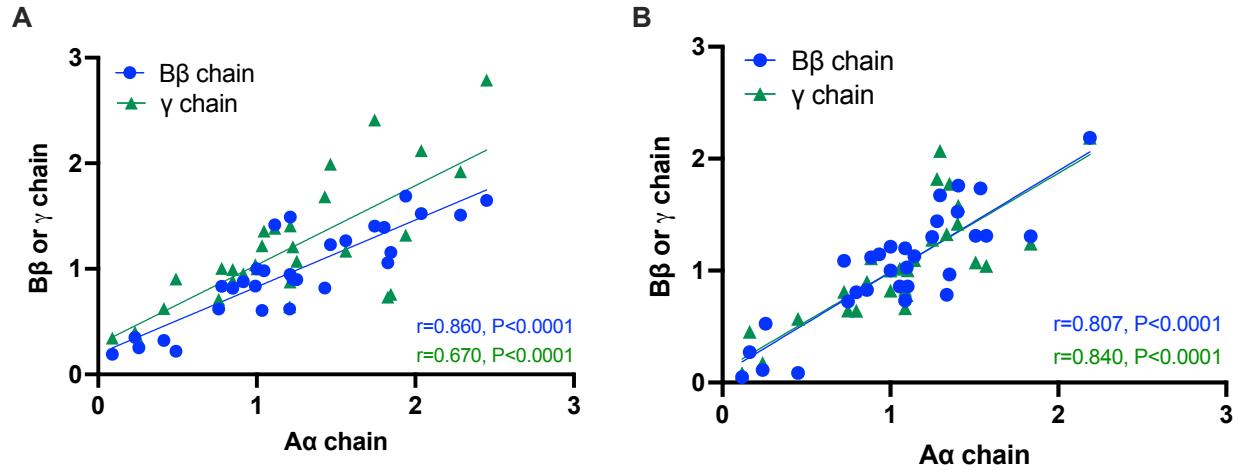
Gene Target	Forward Sequence	Reverse Sequence	Source	Catalog #
RRN18S	Proprietary	Proprietary	Qiagen	QT00199367
GAPDH	Proprietary	Proprietary	Qiagen	QT00079247
FGA	GTCCCGAGGCAATGGATTTA	TTGAGGCAGTGTCTGAAGAAG	IDT	N/A
FGB	Proprietary	Proprietary	Qiagen	QT00031003
FGG	TGGAAGTGAAGACTGGAATG	GGCATATGTTAGGCGGTACTT	IDT	N/A
IL6R	Proprietary	Proprietary	Qiagen	QT00023660
EEPDI	TCTGCCACAATTTGCGTTTC	CTGAGTCTGCATCCCTCTATTTAC	IDT	N/A
COLEC11	GAAAGGAGATTCGCGTGACATAG	AGAGACCTGGTTGTCCATCT	IDT	N/A
IRF1	Proprietary	Proprietary	Qiagen	QT00063917
JMJD1C	CAGACAGAGTACAGTGGGAAAG	CTCTCGAGGTCGCTTACATAAC	IDT	N/A
ATXN2L	GGAGAAAGAGGTTGATGGTCTG	GGGTGGTTTGCCTCCTTATC	IDT	N/A
GRAMD4	Proprietary	Proprietary	Qiagen	QT00079149
IFT122	Proprietary	Proprietary	Qiagen	QT00071862
PSMG1	Proprietary	Proprietary	Qiagen	QT00069685
HDLBP	GACCGGGCTTTAAGGAGTTT	CTCCAACCGGATTTGGGTAAT	IDT	N/A
SH2B3	GGAAGCCCAGAACACTAACA	GCTGAGAGTAGAAGCAGGATTAG	IDT	N/A
SEPT2	GAGTTCACACTGATGGTGGT	TTCTGCTGCTCCAGTATG	IDT	N/A
SPPL2A	Proprietary	Proprietary	Qiagen	QT00061194
SNX13	Proprietary	Proprietary	Qiagen	QT00079415
CHD9	TTCTCCTTCCACATCCTCTACT	GTGAGAAGCATCCCTGGATAAA	IDT	N/A
RAB5C	CAGTGCAGCTACCCTTTCTT	CCAAAGACCACTCCGAACAA	IDT	N/A
IL1R1	CACCAGCCACTAAGGAGAAA	CATAAGACAGGAGGCACCTAAA	IDT	N/A
PRR12	Proprietary	Proprietary	Qiagen	QT00070651
DIP2B	GGGACACTTTCTGCTCCTATTC	GGTTGATCCCTCTGGTCTTTAG	IDT	N/A
SEPT7	CTGACCCACCGCATCTTAAT	AGCTATCAAGCCGTCTTCC	IDT	N/A
ZFP36L1	Proprietary	Proprietary	Qiagen	QT00014805
LIPA	GCTGTTTGCCTGTGGATTTTC	GAGGAGACCACCTTCATATTG	IDT	N/A
TTC17	ACAGAAGAAGAGGCCCAAAC	CAGATCCATGCGAACCTCTAAT	IDT	N/A
LEPR	CCTGGGCACAAGGACTTAAT	GTTGGGAAGTTGGCACATTG	IDT	N/A
PDIA5	CAAAGGTCTCCTCGCTCATT	GCCACCTCAGATTTGGAGTAA	IDT	N/A
PLEC	Proprietary	Proprietary	Qiagen	QT00053074
SHANK3	Proprietary	Proprietary	Qiagen	QT00208474
CPS1	CAACCTGGCAGTTCCTCTATAC	CTCATCCAAGACAGCTGAGAAG	IDT	N/A

Supplemental Figure 1



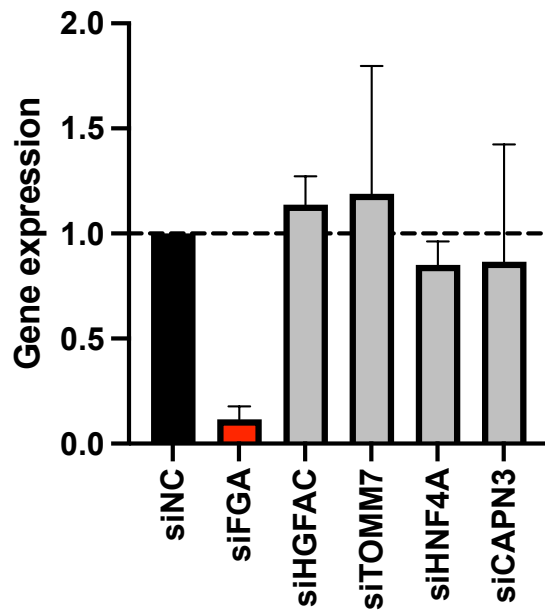
Supplemental Figure 1. IL-6 induces fibrinogen expression in HepG2 cells. HepG2 cells were treated with IL-6 at the indicated concentrations for 24 hours. Fibrinogen was detected by immunoblot.

Supplemental Figure 2



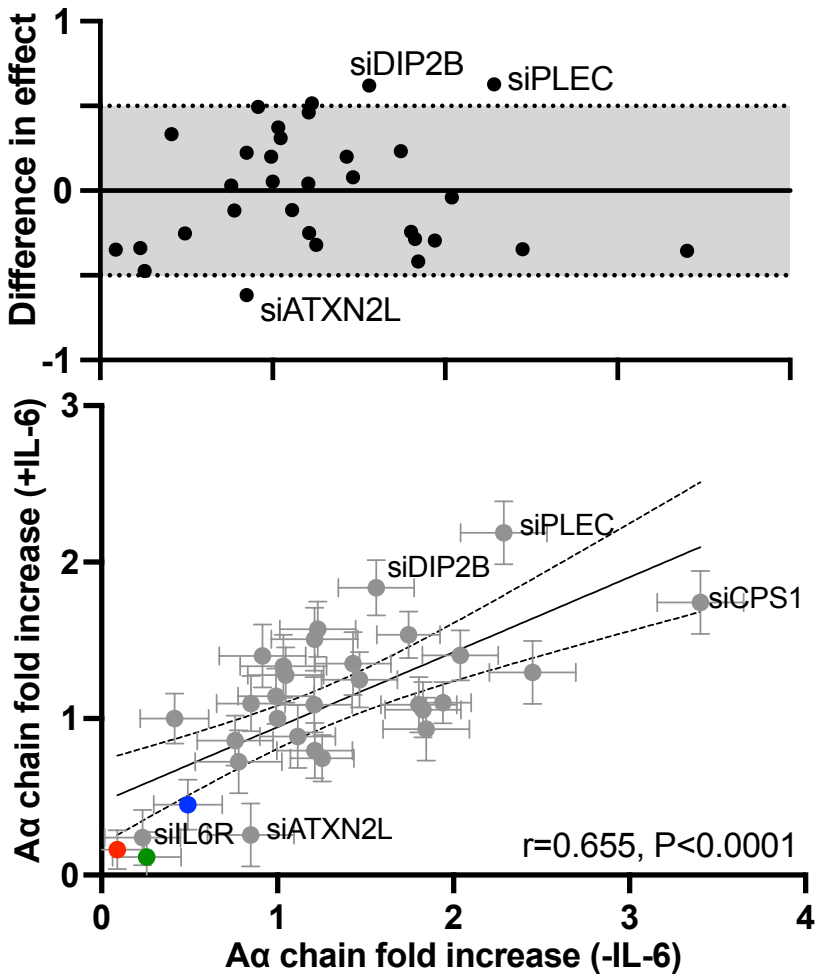
Supplemental Figure 2. Detection of the fibrinogen A α , B β , and γ chains is highly correlated. Spearman correlations in the (A) absence and (B) presence of IL-6.

Supplemental Figure 3



Supplemental Figure 3. A subset of siRNAs failed to consistently knock down the target gene. HepG2 cells were transfected with siRNAs against candidate genes in the absence of IL-6. N=2-3 for each siRNA, bars indicate mean + standard deviation, siNC and siFGA are shown for context

Supplemental Figure 4



Supplemental Figure 4. Knockdown of the candidate genes has similar effects on constitutive and inducible fibrinogen production. Spearman correlation and residual plots of fibrinogen A α chain production by HepG2 cells after candidate gene knock down. Symbols: *FGA*, red; *FGB*, blue; *FGG*, green