

Table S1. The list of cloning and mutagenic primers used in SCD5 promoter and SNP analysis. Bold and underlined letters indicate the recognition site of the endonuclease or the nucleotide to be replaced.

	Primer name	Sequence (5' → 3')	T _A (°C)
Cloning	SCD5-P1-S-KpnI	AAA TTT <u>GGT ACC</u> ATA TGG GGG ATA CGC CAG CA	56
	SCD5-P2-S-KpnI	AAA TTT <u>GGT ACC</u> GAG CCA CCT TCC ACC CG	
	SCD5-P3-S-KpnI	AAA TTT <u>GGT ACC</u> TAA GGA GGC GTT GCA GAA GTG	
	SCD5- P4-S-KpnI	AAA TTT <u>GGT ACC</u> ACA TTT GTT TGC TCC ATC TTT GC	
	SCD5-P-AS-HindIII	AAA TTT <u>AAG CTT</u> GCA GAA AGG GAT CTT CCC CG	
Mutagenesis	rs6841081-S	TCT TTC TCG C <u>T</u> G CCG AGT TCA GCC CGG GCA GC	72
	rs6841081-AS	GGA GGC GCG CGC GGG GCG	
	rs3811792-S	CGT TCC ATT T <u>T</u> C ACA GCT CCT CCT CCC C	72
	rs3811792-AS	GGG CCG GCG ACG CTG GAG	

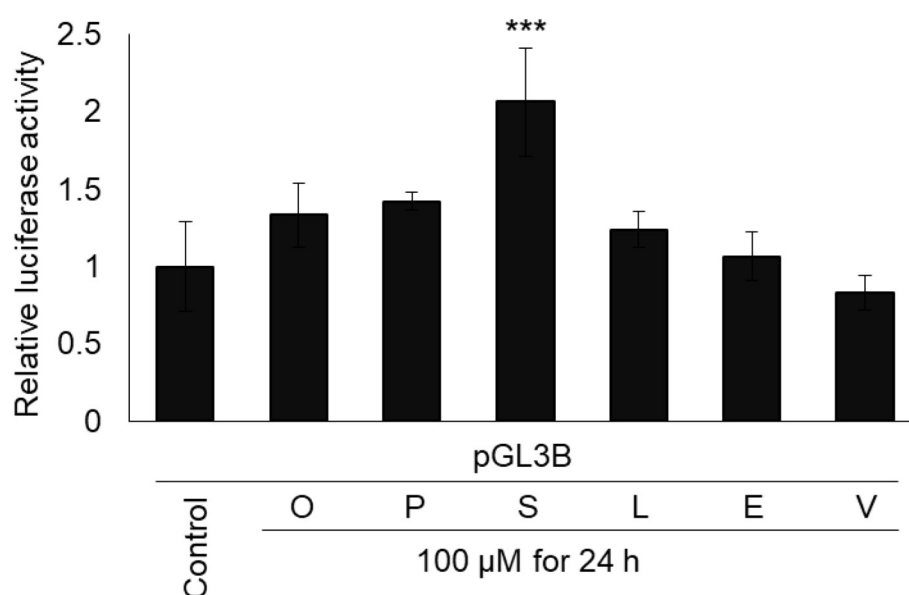


Figure S1. Effect of different fatty acids on pGL3B luciferase activity in HEK293T cells. Transfection and FA treatment were performed as described in *Materials and Methods*. pCMV- β -gal vector served as transfection control. Luciferase and β -galactosidase enzyme activities were measured as indicated in *Materials and Methods* and their relative ratios are shown as bar graphs. The diagram depicts the results of three independent measurements normalized to pGL3B promoter-less untreated vector. Data are shown as mean values \pm S.D. Statistical analysis was performed by using the Tukey-Kramer Multiple Comparisons Test. Three asterisks: $p < 0.001$.