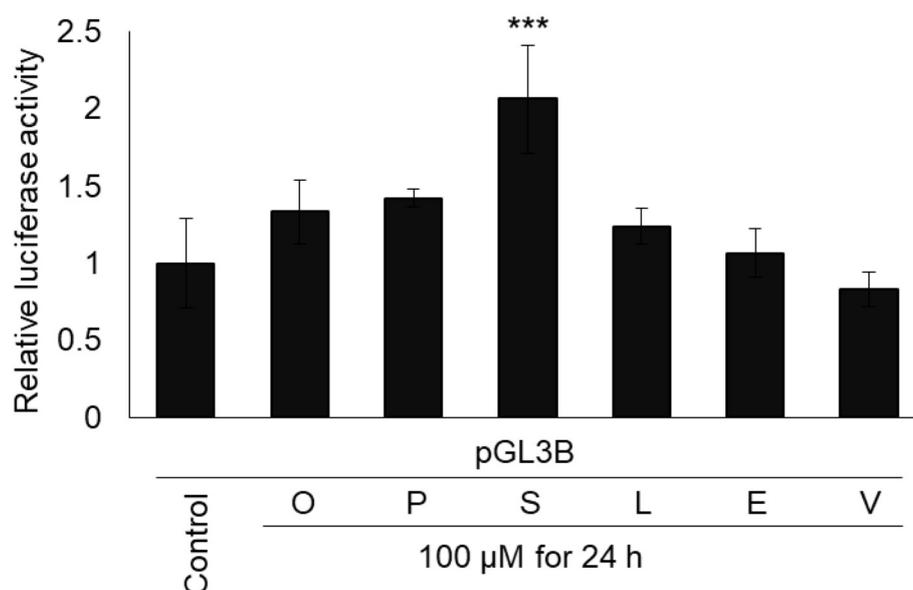


**Table S1. The list of cloning and mutagenic primers used in SCD5 promoter and SNP analysis.** Bold and underlined letters indicate the recognition site of the endonuclease or the nucleotide to be replaced.

	Primer name	Sequence (5' → 3')	T <sub>A</sub> (°C)
Cloning	SCD5-P1-S-KpnI	AAA TTT <b><u>GGT ACC</u></b> ATA TGG GGG ATA CGC CAG CA	56
	SCD5-P2-S-KpnI	AAA TTT <b><u>GGT ACC</u></b> GAG CCA CCT TCC ACC CG	
	SCD5-P3-S-KpnI	AAA TTT <b><u>GGT ACC</u></b> TAA GGA GGC GTT GCA GAA GTG	
	SCD5-P4-S-KpnI	AAA TTT <b><u>GGT ACC</u></b> ACA TTT GTT TGC TCC ATC TTT GC	
	SCD5-P-AS-HindIII	AAA TTT <b><u>AAG CTT</u></b> GCA GAA AGG GAT CTT CCC CG	
Mutagenesis	rs6841081-S	TCT TTC TCG <b><u>C</u></b> TG CCG AGT TCA GCC CGG GCA GC	72
	rs6841081-AS	GGA GGC GCG CGC GGG GCG	
	rs3811792-S	CGT TCC ATT <b><u>T</u></b> TC 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- $\beta$ -gal vector served as transfection control. Luciferase and  $\beta$ -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:  $p < 0.001$ .