

Figure S1. Expression of M224L variants of stearoyl-CoA desaturase-1 in transiently transfected HepG2 cells. HepG2 cells were harvested and processed 24 h after transfection. Aliquots of cell lysates (5 μ g) were loaded on 12% SDS-polyacrylamide gel, transferred to Immobilon-P membrane and SCD1 was detected with an anti-SCD1 (a) and an anti-Glu-Glu tag (b) antibodies, respectively. Actin was measured as loading control. Representative immunoblots of three independent experiments are shown. The band intensities were quantitated by densitometry and SCD1/Actin ratios are shown as bar graphs (c). Data are shown as mean values \pm S.D. Statistical analysis was performed with the Tukey-Kramer Multiple Comparisons Test. ** $p < 0.01$; *** $p < 0.001$.

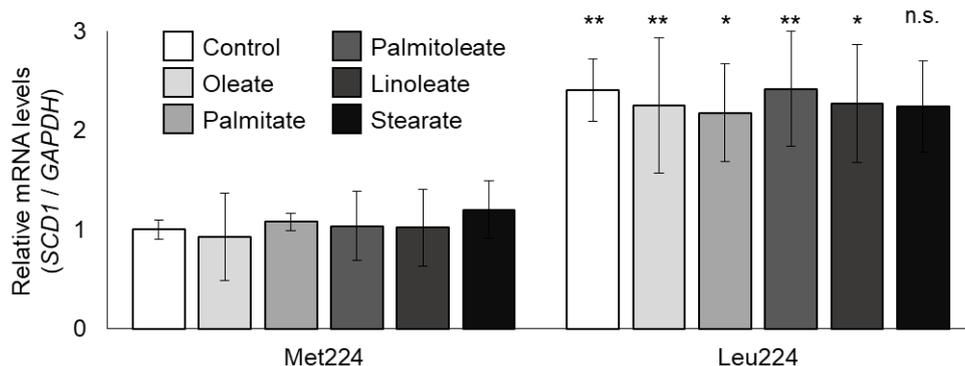


Figure S2. Effect of various fatty acids on the mRNA expression of M224L SCD1 variants in HEK293T cells. qPCR was carried out using GAPDH and SCD1-Glu-Glu tag sequence specific primers as indicated in *Materials and Methods*. The diagram presented depicts the results of three independent measurements. Statistical analysis was performed with the Tukey-Kramer Multiple Comparisons Test. Data are shown as mean values \pm S.D. * $p < 0.05$; ** $p < 0.01$; n.s.: non-significant difference

Table S1. Intracellular amount of C16:0, C16:1, C:18:0 and C18:1 fatty acids in M224L SCD1 overexpressing HEK293T cells.

	Amount of fatty acid ($\mu\text{g}/\text{mg}$)							
	C16:0 (palmitate)		C16:1 (palmitoleate)		C18:0 (stearate)		C18:1 (oleate)	
Control	25.20	\pm 1.29	11.52	\pm 0.42	11.48	\pm 0.52	32.27	\pm 1.36
pcDNA3.1-	25.39	\pm 0.91	11.02	\pm 0.37	12.21	\pm 0.74	31.66	\pm 1.62
Met224	27.11	\pm 3.74	18.73	\pm 2.23	12.50	\pm 1.87	37.95	\pm 5.20
Leu224	40.36	\pm 7.74	29.30	\pm 5.77	18.77	\pm 3.48	70.83	\pm 12.86