

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. ** $p < 0.01$; *** $p < 0.001$.

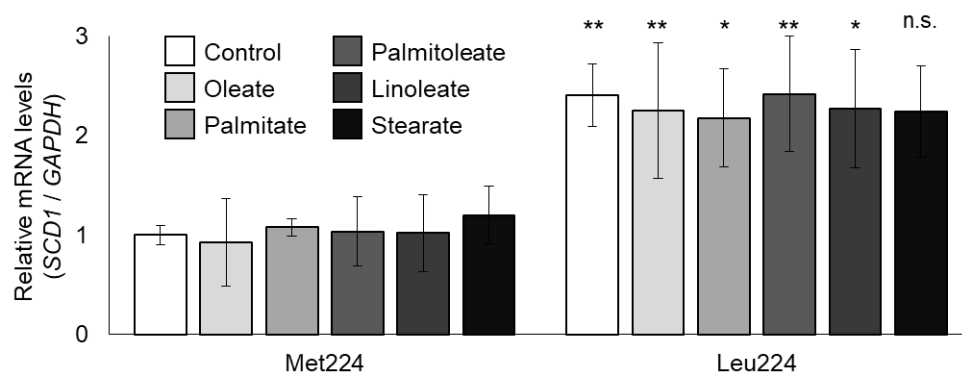


Figure S2. Effect of various fatty acids on the mRNA expression of M224L SCD1 variants in HEK293T cells. qPCR was carried out using GAPDH and SCD1-Glu-Glu tag sequence specific primers as indicated in *Materials and Methods*. The diagram presented depicts the results of three independent measurements. 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 (µg/mg) | | | | | | | |
|------------------|------------------------------|--------|-------------------------|--------|---------------------|--------|-------------------|---------|
| | C16:0 (palmitate) | | C16:1 (palmitoleate) | | C18:0 (stearate) | | C18:1 (oleate) | |
| Control | 25.20 | ± 1.29 | 11.52 | ± 0.42 | 11.48 | ± 0.52 | 32.27 | ± 1.36 |
| pcDNA3.1- | 25.39 | ± 0.91 | 11.02 | ± 0.37 | 12.21 | ± 0.74 | 31.66 | ± 1.62 |
| Met224 | 27.11 | ± 3.74 | 18.73 | ± 2.23 | 12.50 | ± 1.87 | 37.95 | ± 5.20 |
| Leu224 | 40.36 | ± 7.74 | 29.30 | ± 5.77 | 18.77 | ± 3.48 | 70.83 | ± 12.86 |