

Extended Data Figure 2 | Delivery of Cas9-Tmc1-mut3 sgRNA complexes into primary fibroblasts derived from wild-type or homozygous *Tmc1*^{Bth/Bth} mice. a, Using seven commercially available lipids: LPF2000 (Lipofectamine 2000); RNAiMAX (Lipofectamine RNAiMAX); LPF3000 (Lipofectamine 3000); CRISPRMAX (Lipofectamine CRISPRMAX); LTX (Lipofectamine LTX). b, Using ten biodegradable, bioreducible lipids: Lipid 1 (75-O14B); Lipid 2 (76-O14B); Lipid 3 (80-O18B); Lipid 4 (87-O16B); Lipid 5 (113-O18B); Lipid 6 (306-O12B); Lipid 7 (306-O16B); Lipid 8 (306-O18B);

Lipid 9 (400-O12B); Lipid 10 (400-O16B). We delivered 100 nM purified Cas9–Tmc1-mut3 RNP using 3 μ l of the cationic lipid shown in DMEM-FBS. Fibroblast cells were collected 96 h after treatment, genomic DNA was extracted, and indels were detected by HTS. **c**, Synthetic route and chemical structure of lipids. **d**, Commercially available amine head groups used in lipid synthesis. Lipids were synthesized as previously described²⁶. Individual values (n=2-4) are shown; horizontal lines and error bars represent mean \pm s.d. of three or more biological replicates.