

Supplementary Table 2: Correlations between effect sizes of traits and tissues eQTLs for variants within the NNT gene. Related to figure 5.

Trait (UK Biobank) <sup>£</sup>	GTEx Single-Tissue eQTL, normalized effect size <sup>§</sup>	
	Skin - Not Sun Exposed (Suprapubic)	Skin - Sun Exposed (Lower leg)
Skin color (pigmentation) <sup>§</sup>	-0.686	-0.262
Sun protection use	-0.438	-0.848
Ease of skin tanning <sup>*</sup>	-0.407	-0.839

\* Following the Fitzpatrick's Skin phototypes' classification, higher values of this phenotype actually represent less tanning but easier burn.

£ Effect size from GWAS of these phenotypes.

§ The normalized effect size (NES) of the eQTLs is defined as the slope of the linear regression, and is computed as the effect of the alternative allele (ALT) relative to the reference allele (REF) (i.e., the eQTL effect allele is the ALT allele).

Supplementary Table 3: Oligonucleotides used for deletion of *nnt* gene in Zebrafish.

Related to the STAR Methods under “*Deletion of Zebrafish nnt gene*” subsection.

. Related to REAGENT or RESOURCE	SOURCE	IDENTIFIER
Oligonucleotides (continued)		
pMiniCoopR U6: DR-NNT-1 spacer, mitfa:Cas9 DR-NNT-1 spacer sequence with 5' G: 5'- GGGGCTACAATGTGCCCGGA-3'	This manuscript	KAC1684 - cloned from Addgene plasmid ID 118840
pMiniCoopR U6: DR-NNT-2 spacer, mitfa:Cas9 DR-NNT-2 spacer sequence with 5' G: 5'- GGTGGTGGTGGAGTCCGCG-3'	This manuscript	KAC1700, cloned from Addgene plasmid ID 118840
pMiniCoopR U6: DR-NNT-3 spacer, mitfa:Cas9 DR-NNT-3 spacer sequence with 5' G: 5'- GGTTACCTGGACTAGTGAGG-3'	This manuscript	KAC1679, cloned from Addgene plasmid ID 118840
P5 deep sequencing primer for Danio rerio DR-NNT-1: 5'- ACACTCTTTCCCTACACGACGCTCTTCCGATCTCGG TTGAGGGCTTGATGTGTCCTAAAG-3'	Integrated DNA technologies	oKAC1374
P7 deep sequencing primer for Danio rerio DR-NNT-1: 5'- GACTGGAGTTCAGACGTGTGCTCTTCCGATCTCTCT CTTTCACATGTAGGAGGAGGGC-3'	Integrated DNA technologies	oKAC1375
P5 deep sequencing primer for Danio rerio DR-NNT-3: 5'- ACACTCTTTCCCTACACGACGCTCTTCCGATCTCTA CAATGTGCCCGGACGGTGAAG-3'	Integrated DNA technologies	oKAC1376
P7 deep sequencing primer for Danio rerio DR-NNT-3: 5'- GACTGGAGTTCAGACGTGTGCTCTTCCGATCTCCAT ACTCAAGCTCTTCCGTTTAGTGTG-3'	Integrated DNA technologies	oKAC1377
P5 deep sequencing primer for Danio rerio DR-NNT-2: 5'- ACACTCTTTCCCTACACGACGCTCTTCCGATCTCAT CCTGACGTCCCTGATGGTGG-3'	Integrated DNA technologies	oKAC1378
P7 deep sequencing primer for Danio rerio DR-NNT-2: 5'- GACTGGAGTTCAGACGTGTGCTCTTCCGATCTGGCATTCCCT TACAAACAGCTGACCGTC-3'	Integrated DNA technologies	oKAC1379
Nextera DNA index primer 701, for targeted sequencing library preparation: 5'- CAAGCAGAAGACGGCATAACGAGATTCGCCTTAGTG ACTGGAGTTCAGACGTGTGCTCTTCCGATCT-3'	Integrated DNA technologies	oKAC1379
Nextera DNA index primer 702, for targeted sequencing library preparation: 5'- CAAGCAGAAGACGGCATAACGAGATCTAGTACGGTG ACTGGAGTTCAGACGTGTGCTCTTCCGATCT-3'	Integrated DNA technologies	oRW1093
Nextera DNA index primer 703, for targeted sequencing library preparation: 5'- CAAGCAGAAGACGGCATAACGAGATTTCTGCCTGTG ACTGGAGTTCAGACGTGTGCTCTTCCGATCT-3'	Integrated DNA technologies	oRW1094

Nextera DNA index primer 704, for targeted sequencing library preparation: 5'-CAAGCAGAAGACGGCATAACGAGATGCTCAGGAGTGACTGGAGTTCAGACGTGTGCTCTTCCGATCT-3'	Integrated DNA technologies	oRW1095
Nextera DNA index primer 705, for targeted sequencing library preparation: 5'-CAAGCAGAAGACGGCATAACGAGATAGGAGTCCGTGACTGGAGTTCAGACGTGTGCTCTTCCGATCT-3'	Integrated DNA technologies	oRW1096
Nextera DNA index primer 706, for targeted sequencing library preparation: 5'-CAAGCAGAAGACGGCATAACGAGATCATGCCTAGTGACTGGAGTTCAGACGTGTGCTCTTCCGATCT-3'	Integrated DNA technologies	oRW1097
Nextera DNA index primer 707, for targeted sequencing library preparation: 5'-CAAGCAGAAGACGGCATAACGAGATGTAGAGAGGTGACTGGAGTTCAGACGTGTGCTCTTCCGATCT-3'	Integrated DNA technologies	oRW1098
Nextera DNA index primer 708, for targeted sequencing library preparation: 5'-CAAGCAGAAGACGGCATAACGAGATCCTCTCTGGTGACTGGAGTTCAGACGTGTGCTCTTCCGATCT-3'	Integrated DNA technologies	oRW1099
Nextera DNA index primer 709, for targeted sequencing library preparation: 5'-CAAGCAGAAGACGGCATAACGAGATAGCGTAGCGTGACTGGAGTTCAGACGTGTGCTCTTCCGATCT-3'	Integrated DNA technologies	oRW1100
Nextera DNA index primer 710, for targeted sequencing library preparation: 5'-CAAGCAGAAGACGGCATAACGAGATCAGCCTCGGTGACTGGAGTTCAGACGTGTGCTCTTCCGATCT-3'	Integrated DNA technologies	oRW1101
Nextera DNA index primer 711, for targeted sequencing library preparation: 5'-CAAGCAGAAGACGGCATAACGAGATTGCCTCTTGTGACTGGAGTTCAGACGTGTGCTCTTCCGATCT-3'	Integrated DNA technologies	oRW1102
Nextera DNA index primer 712, for targeted sequencing library preparation: 5'-CAAGCAGAAGACGGCATAACGAGATTCCTCTACGTGACTGGAGTTCAGACGTGTGCTCTTCCGATCT-3'	Integrated DNA technologies	oRW1103
Nextera DNA index primer 510, for targeted sequencing library preparation: 5'-AATGATACGGCGACCACCGAGATCTACACCGTCTAA TACTCTTTCCCTACACGACGCTCTTCCGATCT-3'	Integrated DNA technologies	oRW1124
Nextera DNA index primer 511, for targeted sequencing library preparation: 5'-AATGATACGGCGACCACCGAGATCTACACTCTCTCC GACTCTTTCCCTACACGACGCTCTTCCGATCT-3'	Integrated DNA technologies	oRW1125