

Cell Reports Medicine, Volume 2

Supplemental information

**Vaccine targeting ANGPTL3 ameliorates dyslipidemia
and associated diseases in mouse models of obese
dyslipidemia and familial hypercholesterolemia**

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1 **Supplementary information**

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1 **Supplementary tables**

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9 Table S1. Amino acid sequences of peptides E1–E3. Related to Figure 1.

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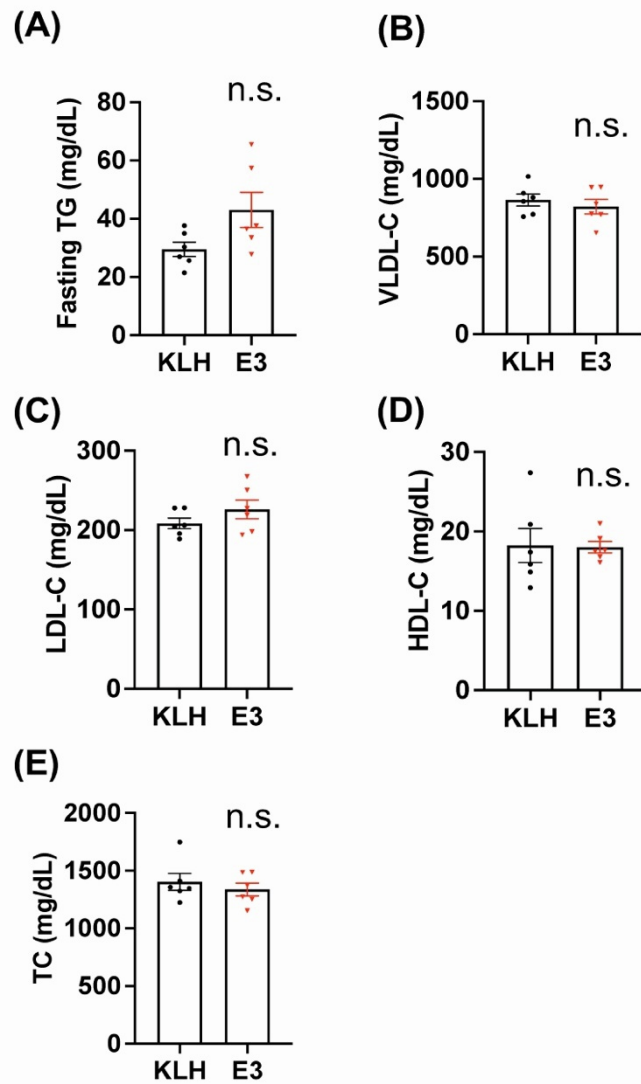
Peptide	Amino acid sequence
E1	¹⁷ SRVDPDLSS ²⁵
E2	⁴¹⁶ KYNKPRTKSR ⁴²⁵
E3	³² EPKSRFAMLD ⁴¹

Gene	Forward (5'-3')	Reverse (5'-3')
<i>Rps18</i>	TTCTGGCCAACGGTCTAGACAAC	CCAGTGGTCTTGGTGTGCTGA
<i>Angptl3</i>	GATTTGCTATGTTGGATGATGTCAA	CTTATGGACAAAATCTTTAAGTCCA
<i>Acc1</i>	ACAGTGGAGCTAGAATTGGAC	ACTTCCCGACCAAGGACTTTG
<i>Fasn</i>	AGCACTGCCTTCGGTTCAGTC	AAGAGCTGTGGAGGCCACTTG
<i>Il-6</i>	CCACTTCACAAGTCGGAGGCTTA	GCAAGTGCATCATCGTTGTTTCATAC
<i>Tnf</i>	AAGCCTGTAGCCACGTCGTA	GGCACCACTAGTTGGTTGTCTTTG
<i>Colla1</i>	GAGCGGAGAGTACTGGATCGA	CTGACCTGTCTCCATGTTGCA
<i>Col3a1</i>	CAACCAGTGCAAGTGACCAA	GCACCATTGAGACATTTTGAAG

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2 Table S2. Sequences of primers used for quantitative RT-PCR of mouse genes. Related to Oligonucleotides
3 in Star Methods.

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 2 Figure S1. Evaluation of long-term efficacy of the E3 vaccine against dyslipidemia in severe familial
 3 hypercholesterolemia model mice. (A-E) Blood samples from *ApoE^{shl}* mice fed a high cholesterol
 4 diet were analyzed 22 weeks after the first immunization (n=6 per group). Levels of (A) fasting TG, (B)
 5 fasting VLDL-C, (C) fasting LDL-C, (D) fasting HDL-C, and (E) fasting TC in circulation. Results are
 6 expressed as mean \pm SEM. n.s. not significant. Related to Figure 5.