

Supplemental Information

**In Utero Transfer of Adeno-Associated Viral
Vectors Produces Long-Term Factor IX Levels
in a Cynomolgus Macaque Model**

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Table S1. AAV peptide sequences for T cell intracellular stimulation studies (SUPPLEMENTARY)

AAV8 peptide sequences for ICS

H-AGGGAPMADNNEGAD-OH
H-PMADNNEGADGVGSS-OH
H-NEGADGVGSSSGNWH-OH
H-GVGSSSGNWHCDSTW-OH
H-SGNWHCDSTWLGDRV-OH
H-CDSTWLGDRVITTST-OH
H-PQYGYLTLNNGSQAV-OH
H-LTLNNGSQAVGRSSF-OH
H-GSQAVGRSSFYCLEY-OH
H-GRSSFYCLEYFPSQM-OH
H-YCLEYFPSQMLRTGN-OH
H-FPSQMLRTGNFQFT-OH
H-RNSLANPGIAMATHK-OH
H-NPGIAMATHKDDEER-OH
H-MATHKDDEERFFPSN-OH
H-DDEERFFPSNGILIF-OH
H-FFPSNGILIFGKQNA-OH
H-GILIFGKQNAARDNA-OH
H-MLTSEEEIKTTNPVA-OH
H-EEIKTTNPVATEEYG-OH
H-TNPVATEEYGIVADN-OH
H-TEEYGIVADNLQQQN-OH
H-IVADNLQQQNTAPQI-OH
H-LQQQNTAPQIGTVNS-OH

AAV5 peptide sequences for ICS

H-QGADGVGNASGDWHC-OH
H-VGNASGDWHCDSTWM-OH
H-GDWHCDSTWMGDRVV-OH
H-DSTWMGDRVVTKSTR-OH
H-GDRVVTKSTRTWVLP-OH
H-TKSTRTWVLPYNNH-OH
H-NFEFTYNFEEVPFHS-OH
H-YNFEEVPFHSSFAPS-OH
H-VPFHSSFAPSQNLFK-OH
H-SFAPSQNLFKLANPL-OH
H-QNLFKLANPLVDQYL-OH
H-LANPLVDQYLYRFVS-OH
H-PQPNGMTNNLQGSNT-OH
H-MTNNLQGSNTYALEN-OH
H-QGSNTYALENTMIFN-OH
H-YALENTMIFNSQPAN-OH
H-TMIFNSQPANPGTTA-OH
H-SQPANPGTTATYLEG-OH
H-QYSTGQVTVEMEWEL-OH
H-QVTVEMEWELKKENS-OH
H-MEWELKKENSKRWNP-OH
H-KKENSKRWNPFIQYT-OH
H-KRWNPFIQYTNND-OH
H-EIQYTNNDPQFVD-OH

Table S2: Primers for quantitative and LAM-PCR (SUPPLEMENTARY)

Primer	Sequence (5'-3')
Pf scAAV-LP1-hFIXco	GGAGAGGAGCAGAGGTTGTC
Pr scAAV-LP1-hFIXco	TGGTGGTGCCTGAAGCTGAG
Pf β -actin	TCCTGTGGCATCCACGAAA
Pf β -actin	CCACGTCACACTTCATGATGG
Linear PCR	GTCGAGTGGATGTTGGAGGTG
Expo 1 vector	AGCTCCAAGGTCAGCAGGCA
Expo 1 LCI	GACCCGGGAGATCTGAATTC
Expo 2	GTGTTTGCTGTTTGCTGCTTGC
Expo 2 LCII	GATCTGAATTCAGTGGCACAG
Library prep vector	AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTA CACGACGCTCTTCCGATCT(BC)GCCCATTTTAGGGGTCA CGA
Library prep LCIII	CAAGCAGAAGACGGCATAACGAGATCGGTCTCGGCATTC CTGCTGAACCGCTCTTCCGATCTAGTGGCACAGCAGTTA GG