

Fig. 1A

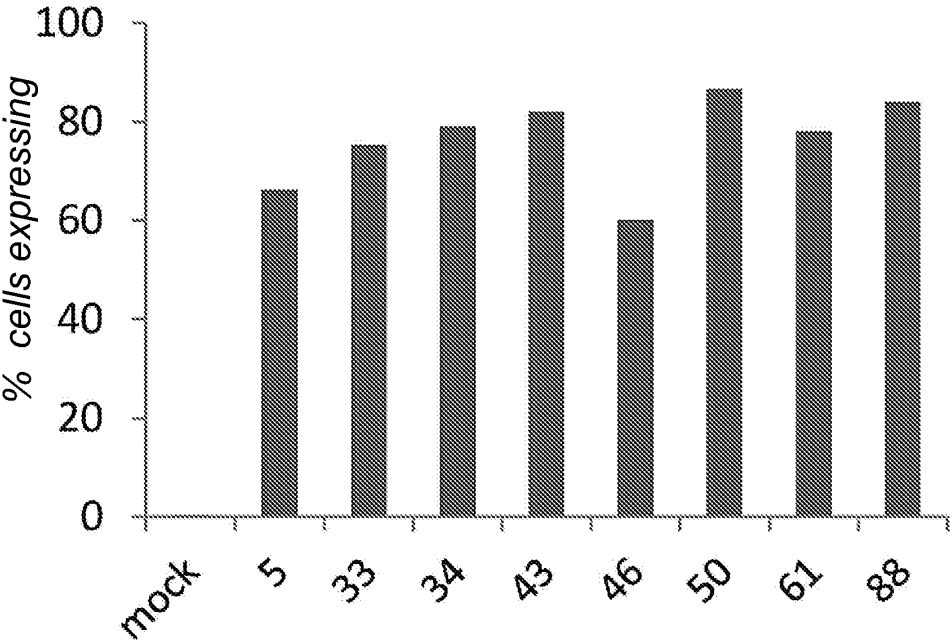


Fig. 1B

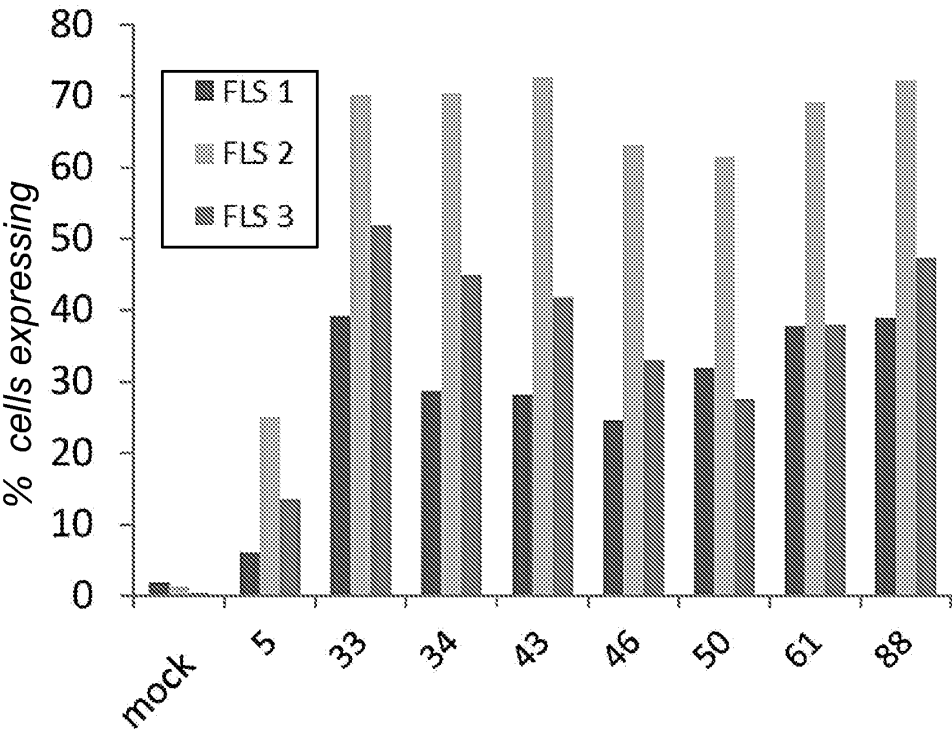


Fig. 1C

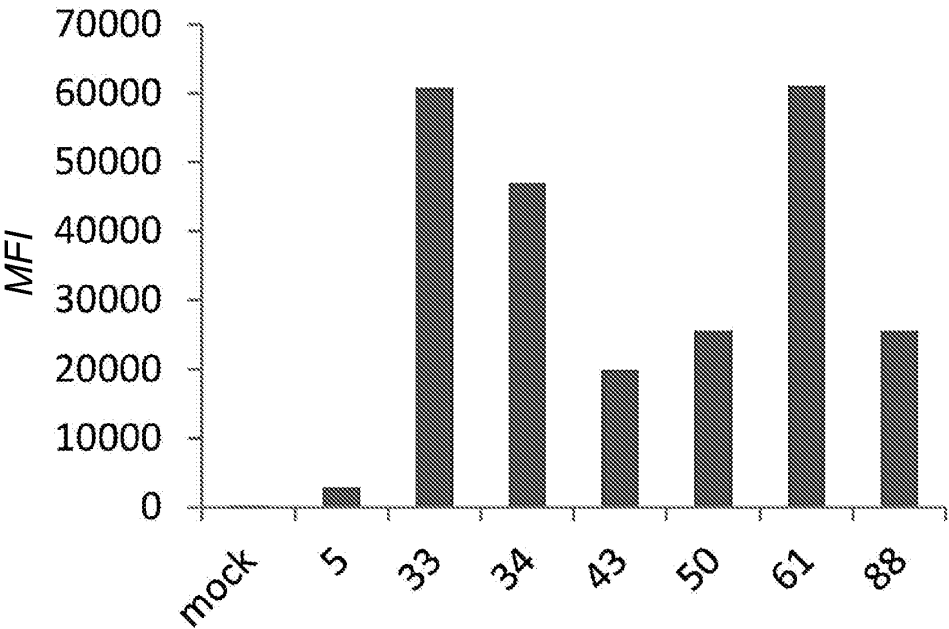
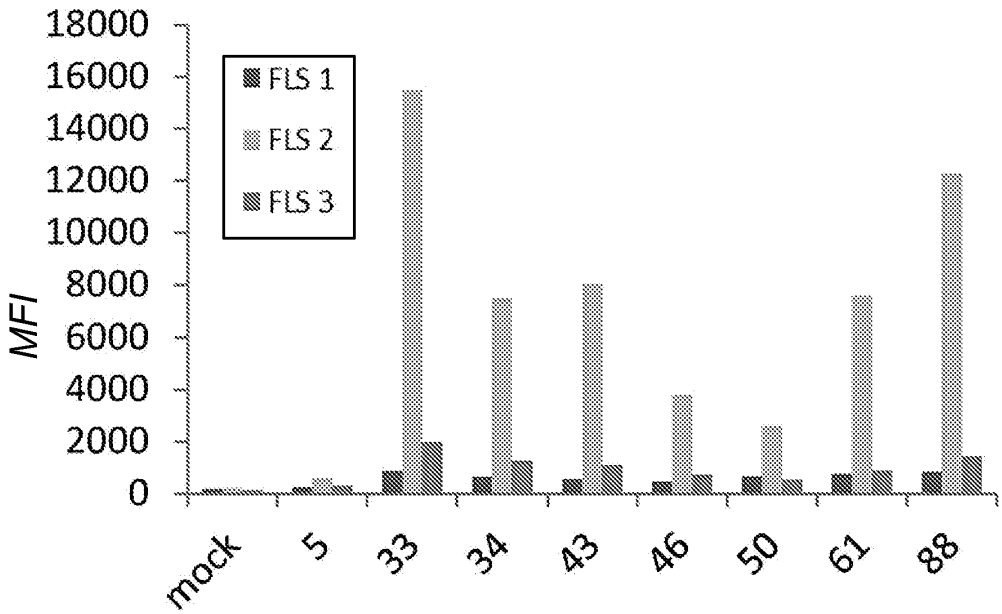


Fig. 1D



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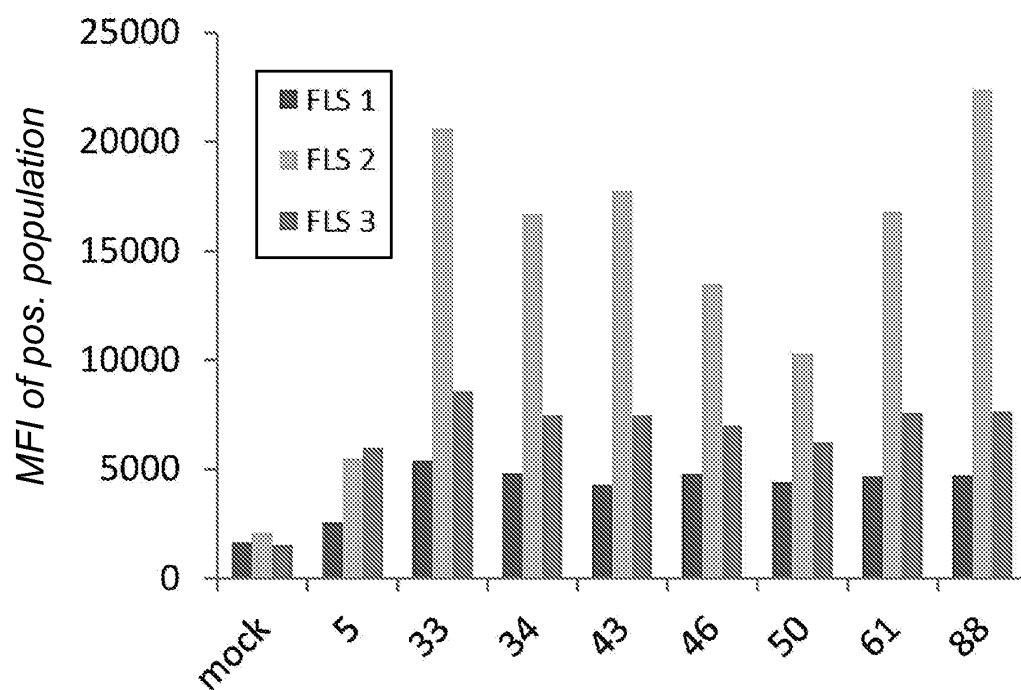
Fig. 1E

Fig. 2B

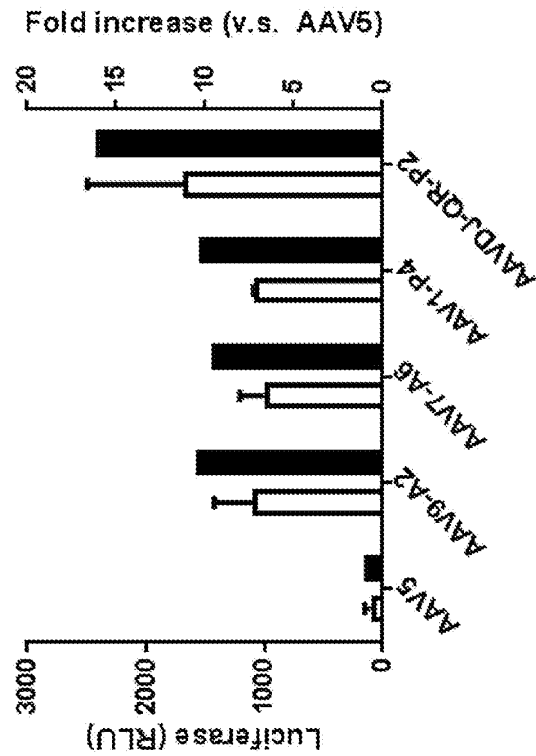


Fig. 2A

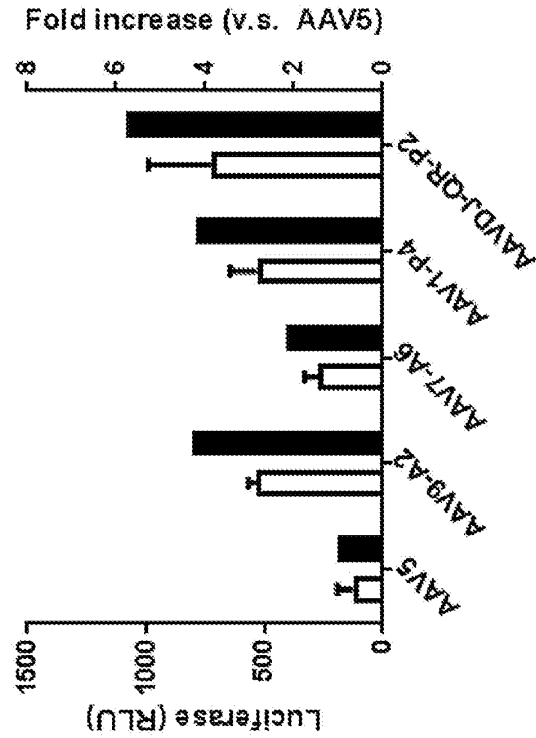


Fig. 2D

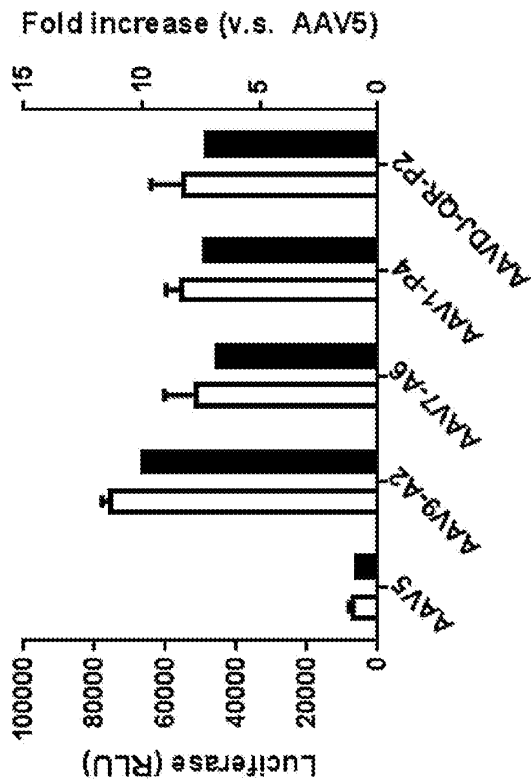


Fig. 2C

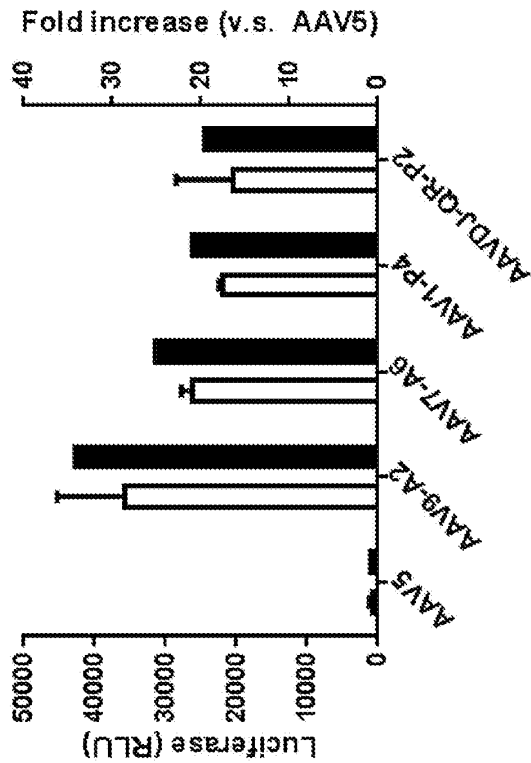


Fig. 2F

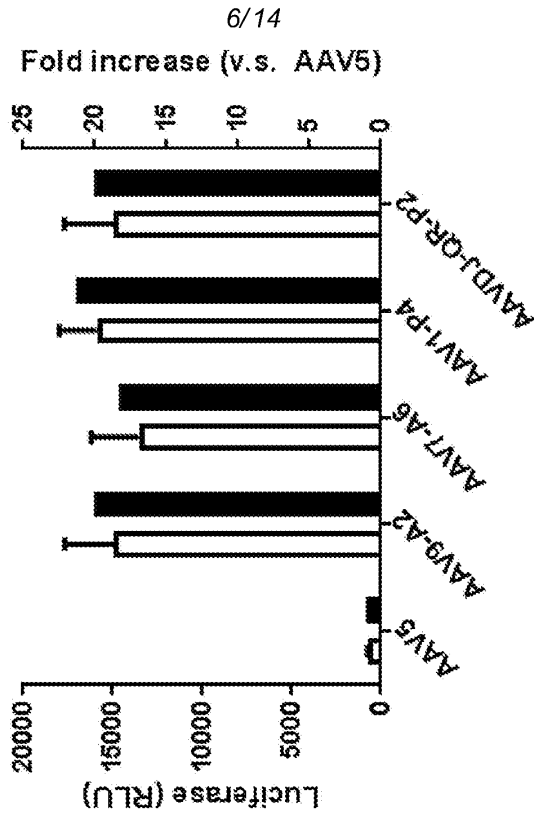


Fig. 2E

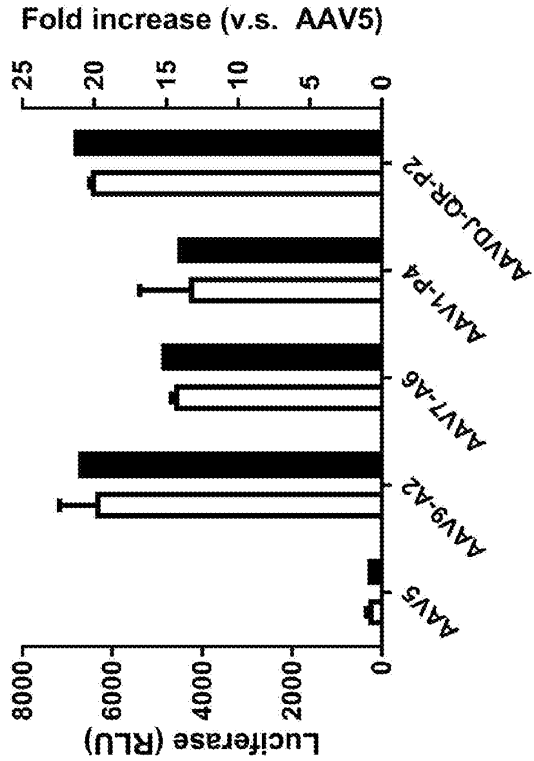


Fig. 2H

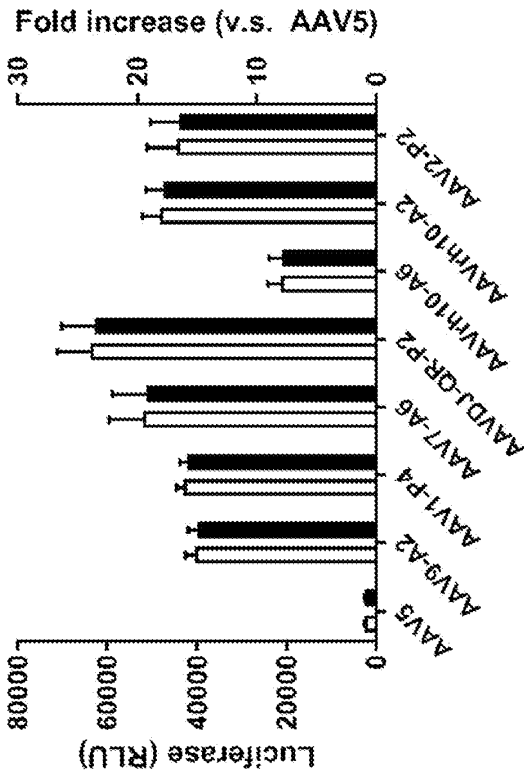


Fig. 2G

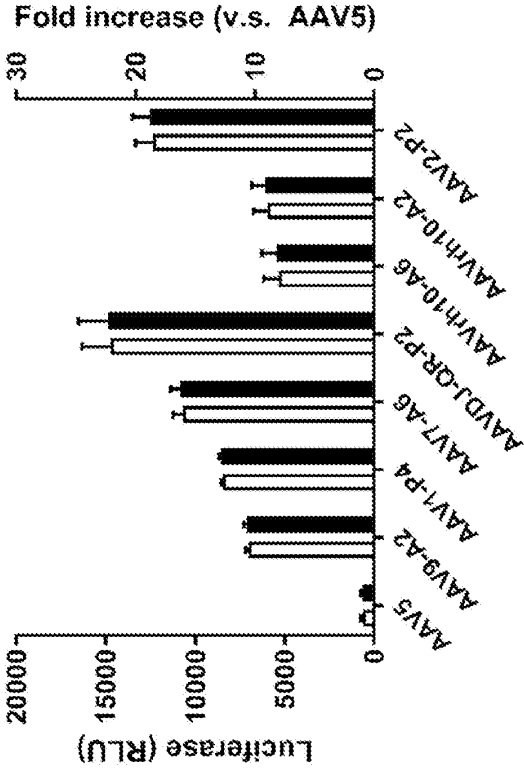


Fig. 2J

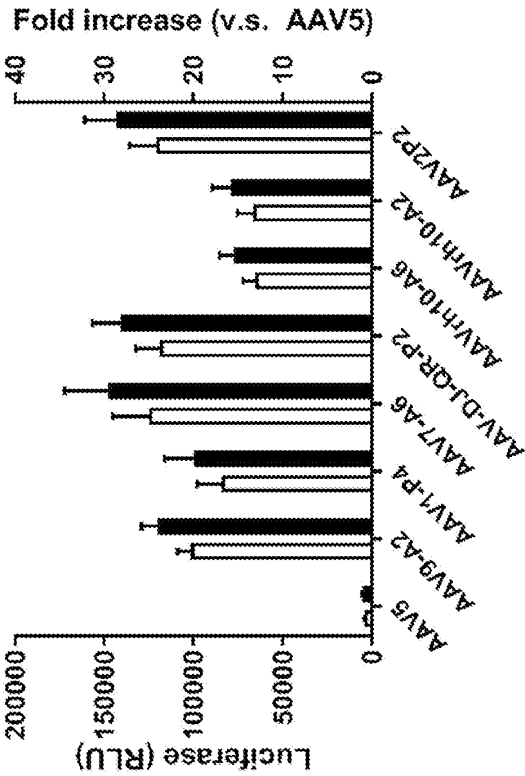
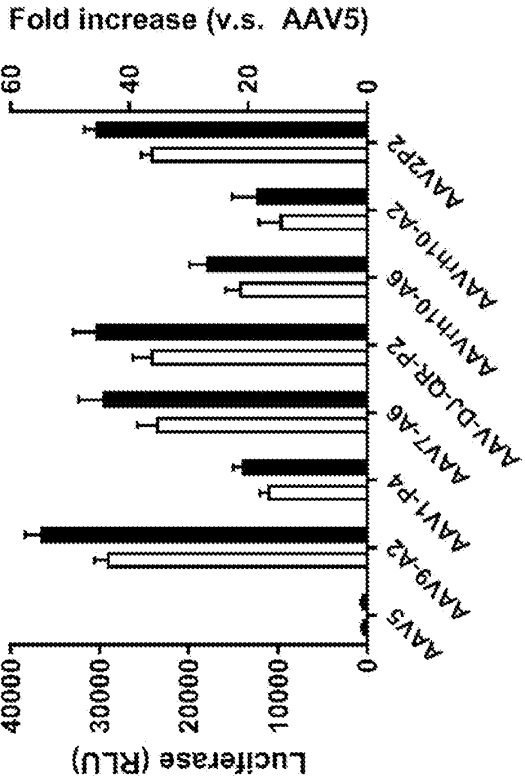


Fig. 2I



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Fig. 2L

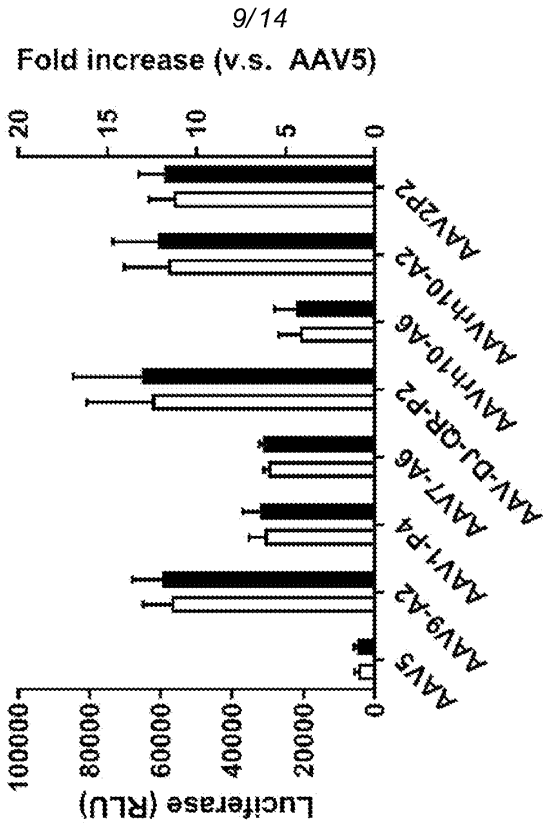


Fig. 2K

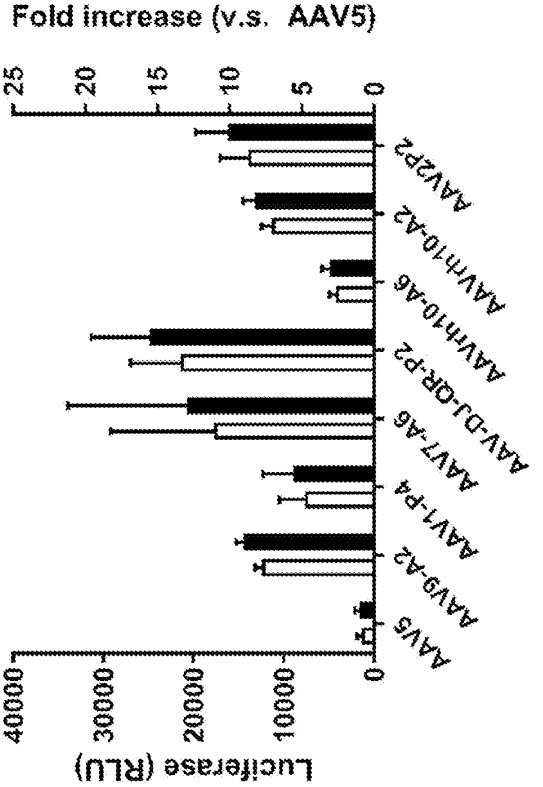


Fig. 2M

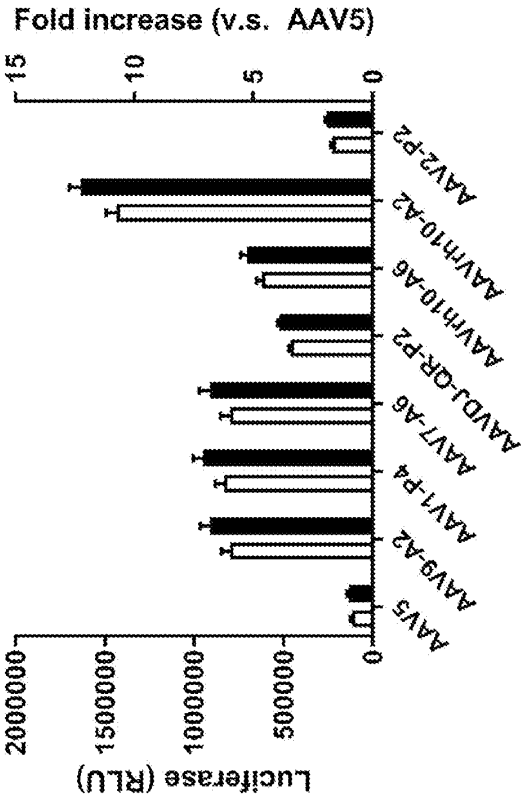


Fig. 3A

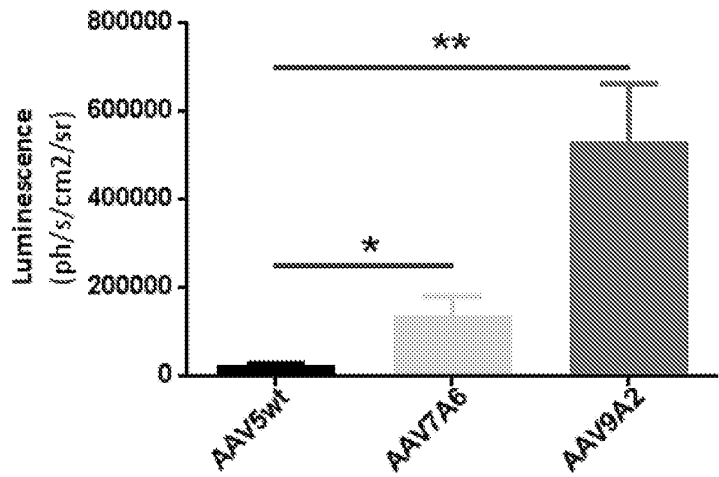
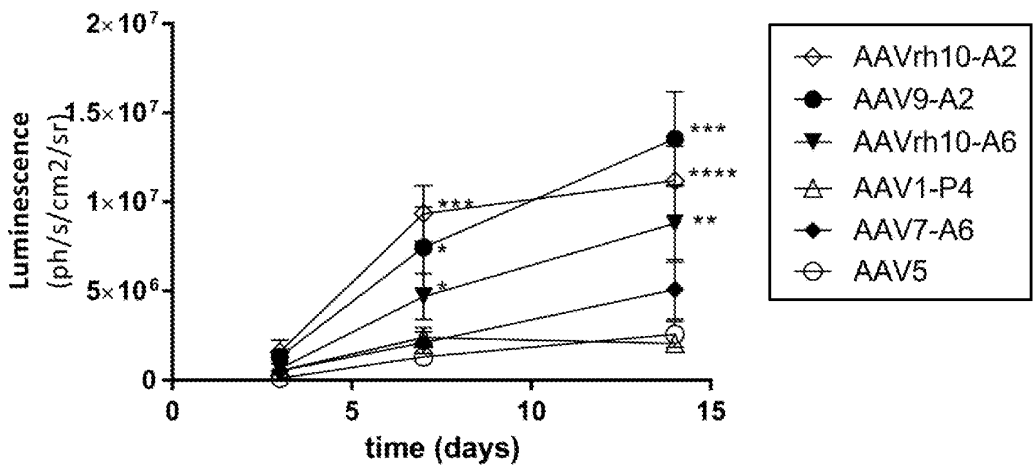
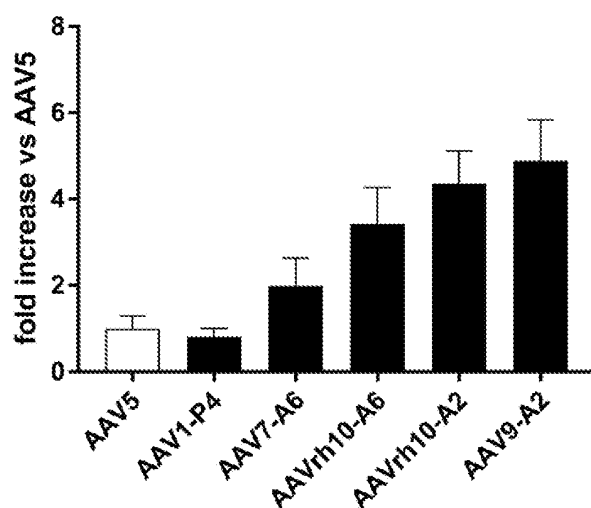


Fig. 3B



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Fig. 3C*Fig. 4*

CLUSTAL format alignment by MAFFT FFT-NS-i (v7.215)

```

AAV1P4      -ggsgndvrs--anaqaa
AAV9A2      -gqrgnysrg--vdaqaa
AAVrh10A2   -gqrgnysrg--vdaqaa
AAV7A6      -gqrgnearv--reaq--
AAV7A6+     -gqrgnearv--reaqaa
AAV10A6     -gqrgnearv--reaqaa
AAV2P2      qggsgcdcrgcdcfca---
AAV-DJ-QR-P2 qqqrgcdcrgcdcfca---
AAV2P2+     qggsgcdcrgcdcfcaqaa
AAV-DJ-QR-P2+ qqqrgcdcrgcdcfcaqaa
              ** *   *   *

```

Fig. 5

CLUSTAL multiple sequence alignment by MUSCLE (3.8)

```

AAV2P2          QGQSGCDCRG-DCFCA---
AAV2P2+         QGQSGCDCRG-DCFCAQAA
AAV-DJ-QR-P2    QGQSGCDCRG-DCFCA---
AAV-DJ-QR-P2+   QGQSGCDCRG-DCFCAQAA
AAV1P4          -GQSGNDVRSANAQAA---
AAV9A2          -GQSGNYSRGVDAQAA---
AAVrh10A2       -GQSGNYSRGVDAQAA---
AAV7A6          -GQSGNEARVREAAQ-----
AAV7A6+         -GQSGNEARVREAAQAA---
AAV10A6         -GQSGNEARVREAAQAA---
                ** *      *      :.

```

Fig. 6

CLUSTAL format alignment by MAFFT FFT-NS-i (v7.215)

```

insertP4        -gqsgndvrs--anaqaa
insertA2        -gqrgnysrg--vdaqaa
insertA6        -gqrgnearv--reaqaa
insertP2        qgqsgcdcrgcdcfcaqaa
insertQR-P2     qgqrgcdcrgcdcfcaqaa
                ** *      *      ****

```

Fig. 7

CLUSTAL multiple sequence alignment by MUSCLE (3.8)

insertP2	QGQSGCDCRGDCFCAQAA
insertQR-P2	QGQRGCDCRGDCFCAQAA
insertP4	-GQSGNDVRS--NAQAA
insertA2	-GQRGNYSRGV--DAQAA
insertA6	-GQRGNEARVR--EAQAA
	** * * ****

Fig. 8

AAV capsid mutant based hTNFR2 expression in HEK293T/17 cells

