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# **Supplemental Information**

## **Targeted Gene Delivery into the Mammalian**

#### Inner Ear Using Synthetic Serotypes

## of Adeno-Associated Virus Vectors

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## **1** Supplementary Figures



Supplementary Figure 1. Transduction of rAAV2/DJ into murine cochlea. EGFP
immunoreactivity (green) in cross-sections of cochlear middle turns in 3-week-old mice
infected with rAAV2/DJ. High-magnification images of Reissner's membrane, interdental
cells, organ of Corti, root cells, and stria vascularis are shown (a–c, respectively). Cell nuclei
were stained with DAPI (blue). ic, interdental cell; oc, organ of Corti; rc, root cell; rm,
Reissner's membrane; sg, spiral ganglion; sv, stria vascularis. Scale bars represent 100 µm.



Supplementary Figure 2. Histological observations of the utricle, saccule, and crista ampullaris. Cross-sections of the (A and B) cochlear middle turn, (C and D) saccule, (E and F) utricle and crista ampullaris from saline and rAAV injected ears of mice were obtained at 3 weeks of age and stained with hematoxylin-eosin. Representative images of three replicates each are shown. Scale bars: 100 µm.



Supplementary Figure 3. EGFP expression in the cochlea infected by rAAV2/PHP.B.
EGFP immunoreactivity (green) in cross-sections of cochlear basal turns in mice 3 weeks of
age are shown. Nuclei were stained with DAPI (blue). White arrowheads indicate
representative EGFP-expressing cells. Scale bar represents 100 µm.