

Supplementary Figure S4: Engineering conditional knockout mice lacking Pcdh15 exon 38

- (a) Schematic of the exon38-recombinant alleles of Pcdh15 (see Methods)
- (b) Confocal images of whole mount preparations of cochlear sensory epithelia from conditional Pcdh15 Δ 'CD2 and KO Pcdh15 Δ 'CD2 P7 mice obtained by crossing $Pcdh15^{\text{ex38-fl/ex38-fl}}$ mice with Myo15-cre and PGK-cre mice, respectively (Caberlotto et al, 2011; Lallemand et al, 1998). Actin staining (red). The hair bundles of KO Pcdh15 Δ 'CD2 OHCs, but not of conditional Pcdh15 Δ 'CD2 OHCs, show planar polarity defects and abnormal shape of the OHC hair bundles similar to those described previously in knockout mice lacking Pcdh15-CD2 (PCDH15- Δ CD2) (Webb et al, 2011).

Scale bar: $2 \mu m$