

**S1 Methods. Genotyping of the 16p11.2 by PCR assay.**

Genotyping was done by Mouse Genotype (958 Sea Wind Court Carlsbad, CA 92011), based on protocols provided by the Jackson Lab (Figure\_S1, Table\_S1).

*Sep1* PCR assay:

Sep1 -/- ~250 bp	Sep1 WT - 306 bp
12634:	CAAGCACTGGCTATGCATGT
12635:	AAGACAGAATGCTATGCAACCTT
12636:	GCTATGAAGATGCCACCAT
12637:	GTGGTAACTCATGCGGTCCT