

Description of Additional Supplementary Files

Supplementary Movie 1. DEL64 mutants display severe hypoplasia of the midbrain and cerebellum.

Tomographic sections from e18.5 mutant brain generated by optical projection tomography. Note the absence of all the MHB-derived structures: the superior colliculus, inferior colliculus, isthmus, and cerebellum.

Supplementary Movie 2. DEL79 mutants display normal brain anatomy.

Tomographic sections from e18.5 mutant brain generated by optical projection tomography. Note the normal appearance of all MHB derived structures: the superior colliculus, inferior colliculus, isthmus, and cerebellum.

Supplementary Movie 3 DEL80 mutants display normal brain anatomy.

Tomographic sections from e18.5 mutant brain generated by optical projection tomography. Note the normal appearance of all MHB derived structures: the superior colliculus, inferior colliculus, isthmus, and cerebellum.

Supplementary Movie 4. DEL79-80 mutants display normal brain anatomy.

Tomographic sections from e18.5 mutant brain generated by optical projection tomography. Note the normal appearance of all MHB derived structures: the superior colliculus, inferior colliculus, isthmus, and cerebellum.