

**Table S1: Overexpression of EGFR-Ras and PI3K-Akt pathways in *Drosophila* glia**

Gene (UAS construct)	<i>repo-Gal4</i> glial overexpression phenotypes
<i>dEGFR</i> <sup>λ</sup> <i>dEGFR</i> <sup>E<sub>1p</sub></sup> <i>dEGFR</i> <sup>wild-type</sup> <i>dRas85D</i> <sup>V12</sup> <i>dRaf</i> <sup>g<sup>of</sup></sup>	glial hyperplasia, CNS morphogenesis defects, lethal
<i>dp110</i> <sup>CAAX</sup> <i>dp110</i> <sup>wild-type</sup> <i>dPTEN</i> <sup>dsRNA</sup> <i>dAkt</i>	normal glial cell numbers-slight glial hyperplasia, viable
<i>dEGFR</i> <sup>λ</sup> ; <i>dp110</i> <sup>CAAX</sup> <i>dEGFR</i> <sup>λ</sup> ; <i>dAkt</i> <i>dRas85D</i> <sup>V12</sup> ; <i>dp110</i> <sup>CAAX</sup> <i>dRas85D</i> <sup>V12</sup> ; <i>dPTEN</i> <sup>dsRNA</sup> <i>dRas85D</i> <sup>V12</sup> ; <i>dPTEN</i> <sup>+/-</sup> <i>dRas85D</i> <sup>V12</sup> ; <i>dAkt</i> <i>dRaf</i> <sup>g<sup>of</sup></sup> ; <i>dp110</i> <sup>CAAX</sup>	glial neoplasia, neuronal loss, behavior defects, CNS morphogenesis defects including enlarged brain lobes and elongated ventral nerve cord, early lethality or prolonged larval phase before pupal lethality
<i>dEGFR</i> <sup>λ</sup> ; <i>dp110</i> <sup>CAAX</sup> ; <i>dRas85D</i> <sup>N17</sup>	Suppression of neoplasia and other phenotypes, sometimes viable
<i>dEGFR</i> <sup>λ</sup> ; <i>dp110</i> <sup>CAAX</sup> ; <i>dPTEN</i> <sup>wild-type</sup>	Suppression of neoplasia and other phenotypes, lethal

3<sup>rd</sup> instar larval brains for each genotype were scored for glial cell numbers, morphology, and position, when possible. 1<sup>st</sup> and 2<sup>nd</sup> instar brains were scored for genotypes that showed earlier lethality, including *dEGFR*<sup>E<sub>1p</sub></sup> and *dRas85D*<sup>V12</sup>; *dAkt*.