

S1 TABLE

No Effects of GEC variants on the expression properties of GABA<sub>A</sub> receptors

Gene/ Receptor	Variant	Surface			Total		
		$\alpha$	$\beta$	$\gamma$	$\alpha$	$\beta$	$\gamma$
<i>GABRA1</i> / $\alpha 1\beta 2\gamma 2$	$\alpha 1T20I$	0.97 ± 0.02 (3)	1.21 ± 0.12 (3)	1.03 ± 0.08 (3)	1.02 ± 0.05 (3)	0.93 ± 0.14 (3)	1.00 ± 0.09 (3)
<i>GABRA4</i> / $\alpha 4\beta 2\gamma 2$	$\alpha 4A19T$	1.16 ± 0.04 (3)	1.10 ± 0.07 (4)	0.82 ± 0.06 (4)	1.24 ± 0.09 (3)	1.06 ± 0.15 (3)	0.95 ± 0.03 (4)
	$\alpha 4H372P$	0.88 ± 0.02 (4)	0.96 ± 0.02 (3)	0.93 ± 0.03 (5)	0.80 ± 0.05 (3)	0.99 ± 0.19 (3)	0.91 ± 0.08 (4)
<i>GABRA5</i> / $\alpha 5\beta 3\gamma 2$	$\alpha 5V204I$	1.04 ± 0.14 (8)	0.95 ± 0.06 (17)	1.13 ± 0.09 (13)	0.97 ± 0.10 (9)	0.84 ± 0.05 (3)	1.05 ± 0.06 (11)
	$\alpha 5W280R$	0.667 ± 0.06 (5)	0.83 ± 0.04 (10)	0.94 ± 0.07 (13)	0.80 ± 0.08 (5)	0.77 ± 0.10 (4)	0.88 ± 0.05 (11)
	$\alpha 5S402A$	0.81 ± 0.11 (3)	0.90 ± 0.10 (3)	1.03 ± 0.01 (3)	0.97 ± 0.16 (3)	1.11 ± 0.05 (3)	0.98 ± 0.02 (3)
	$\alpha 5P453L$	0.85 ± 0.07 (11)	0.91 ± 0.07 (11)	1.01 ± 0.10 (7)	0.92 ± 0.06 (10)	1.16 ± 0.22 (4)	0.94 ± 0.10 (9)
<i>GABRA6</i> / $\alpha 6\beta 2\gamma 2$	$\alpha 6Q237R$	0.96 ± 0.05 (5)	1.09 ± 0.06 (6)	0.93 ± 0.04 (6)	1.00 ± 0.10 (6)	1.01 ± 0.08 (6)	1.00 ± 0.04 (5)
<i>GABRB1</i> / $\alpha 1\beta 1\gamma 2$	$\beta 1H421Q$	1.12 ± 0.12 (3)	1.58 ± 0.39 (4)	1.10 ± 0.07 (3)	1.00 ± 0.21 (3)	1.30 ± 0.18 (3)	0.84 ± 0.01 (3)
<i>GABRB2</i> / $\alpha 1\beta 2\gamma 2$	$\beta 2R293W$	0.83 ± 0.03 (3)	0.95 ± 0.10 (3)	1.30 ± 0.12 (3)	1.04 ± 0.07 (3)	1.03 ± 0.15 (3)	1.10 ± 0.02 (3)
	$\beta 2R354C$	0.95 ± 0.10 (4)	1.03 ± 0.09 (4)	1.27 ± 0.10 (4)	1.22 ± 0.09 (4)	1.06 ± 0.01 (3)	0.86 ± 0.02 (3)

<i>GABRG1</i> / $\alpha 1\beta 2\gamma 1$	$\gamma 1S16R$	1.03 $\pm$ 0.24 (4)	0.89 $\pm$ 0.06 (5)	1.06 $\pm$ 0.03 (5)	0.71 $\pm$ 0.07 (3)	1.02 $\pm$ 0.13 (5)	0.91 $\pm$ 0.09 (5)
	$\gamma 1S414N$	1.04 $\pm$ 0.16 (5)	1.28 $\pm$ 0.17 (6)	1.22 $\pm$ 0.17 (6)	0.85 $\pm$ 0.06 (5)	1.01 $\pm$ 0.14 (4)	0.98 $\pm$ 0.30 (3)
<i>GABRG3</i> / $\alpha 5\beta 3\gamma 3$	$\gamma 3A303T$	1.22 $\pm$ 0.18 (3)	1.02 $\pm$ 0.14 (4)	0.74 $\pm$ 0.14 (5)	0.81 $\pm$ 0.02 (3)	1.34 $\pm$ 0.27 (4)	1.30 $\pm$ 0.28 (4)

Values are expressed as mean  $\pm$  S.E.M.  $n$  = parenthesis. No significant differences from wild type (wt) after analysis of number of comparisons per gene by using one-way ANOVA with Dunnett's multiple comparisons test and unpaired t test (two-tailed) for single comparisons ( $p > 0.05$ ). GEC = genetic epilepsy case.