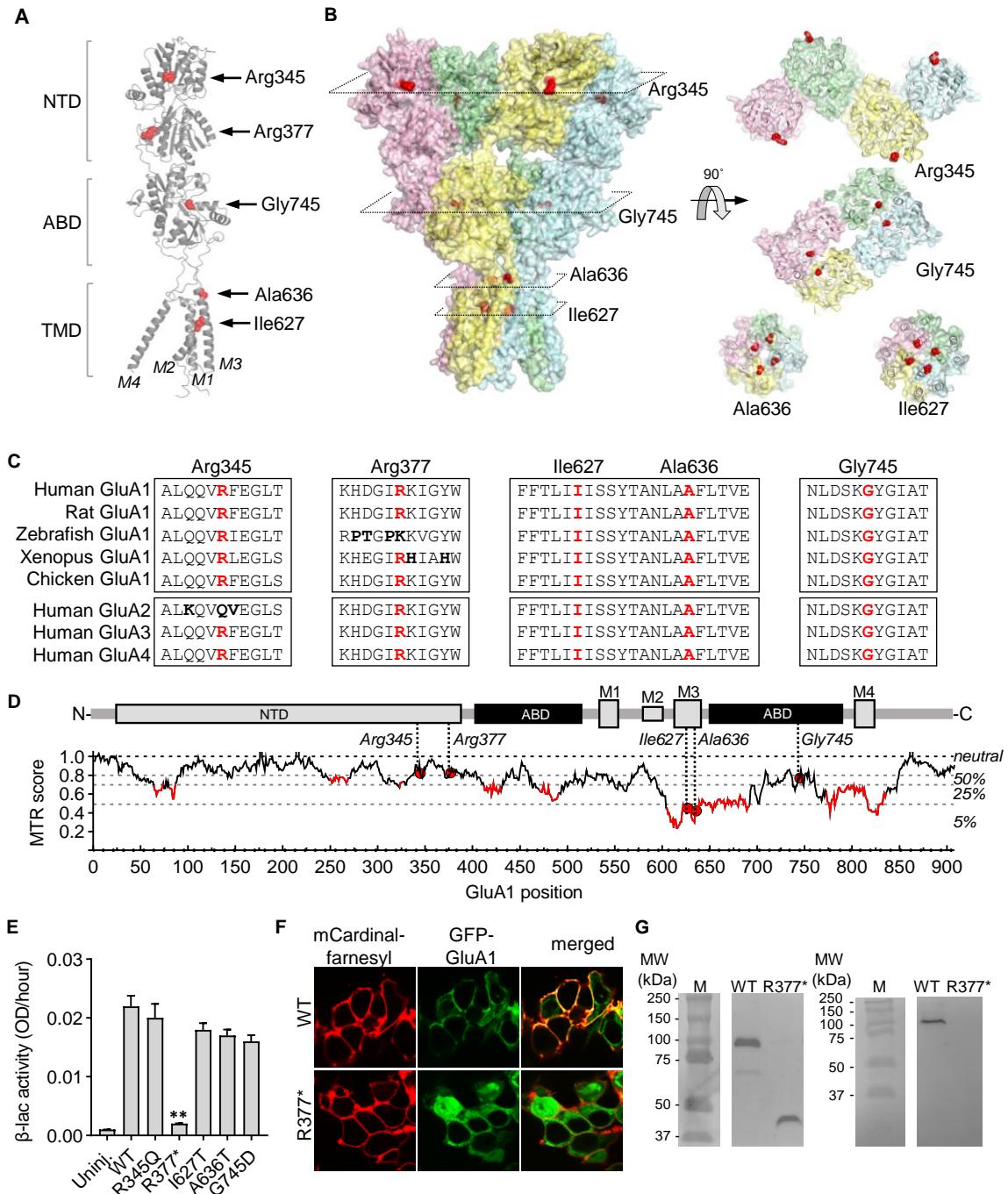
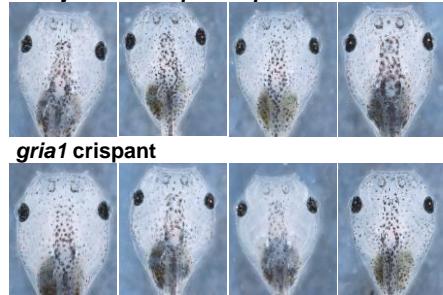
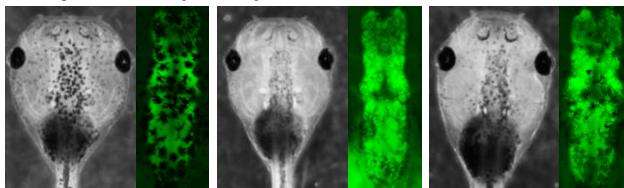
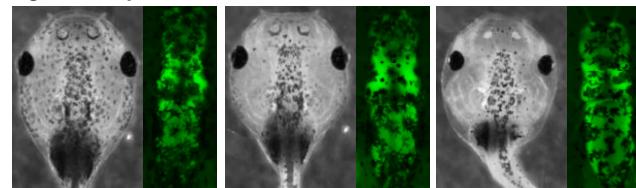
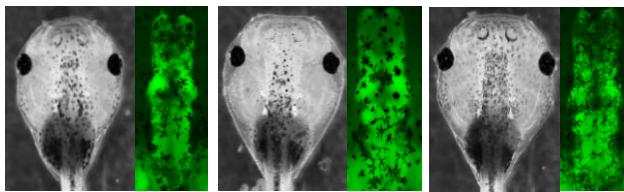
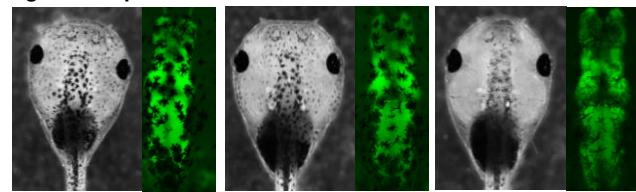
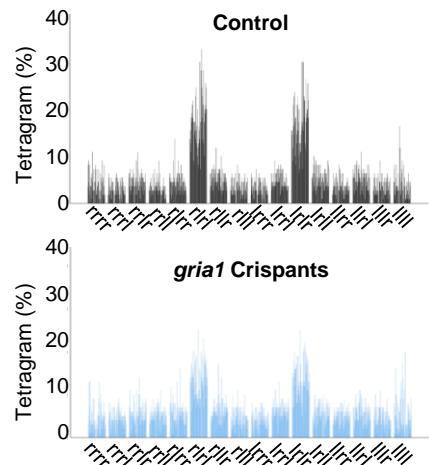
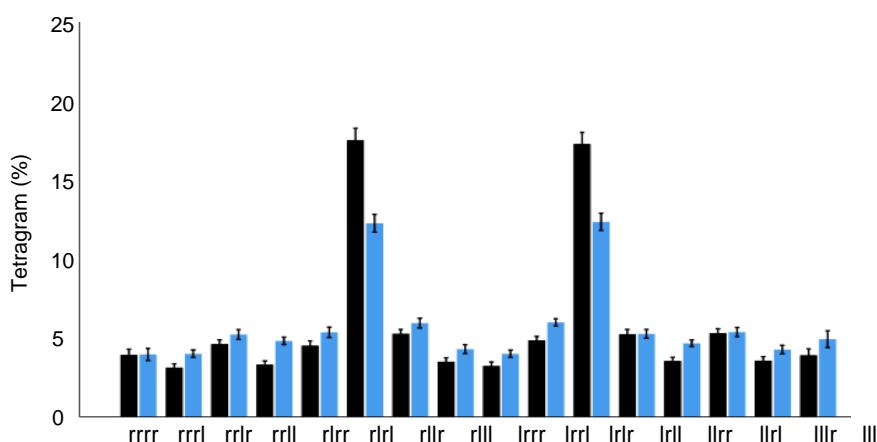
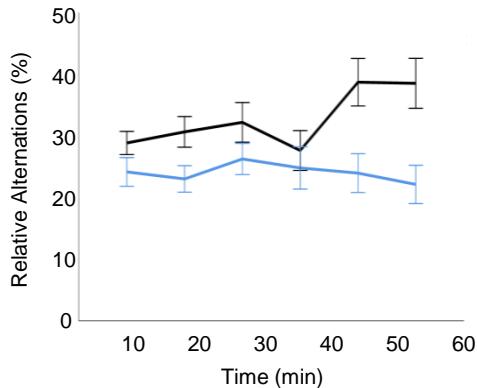
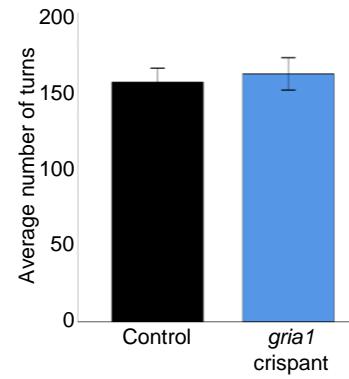
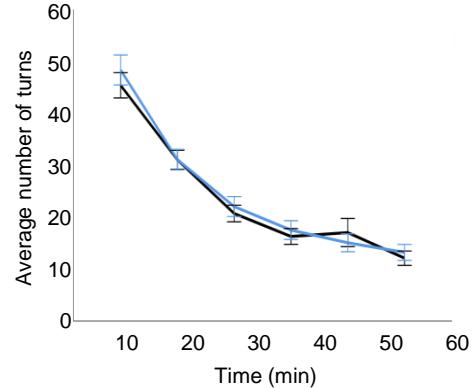
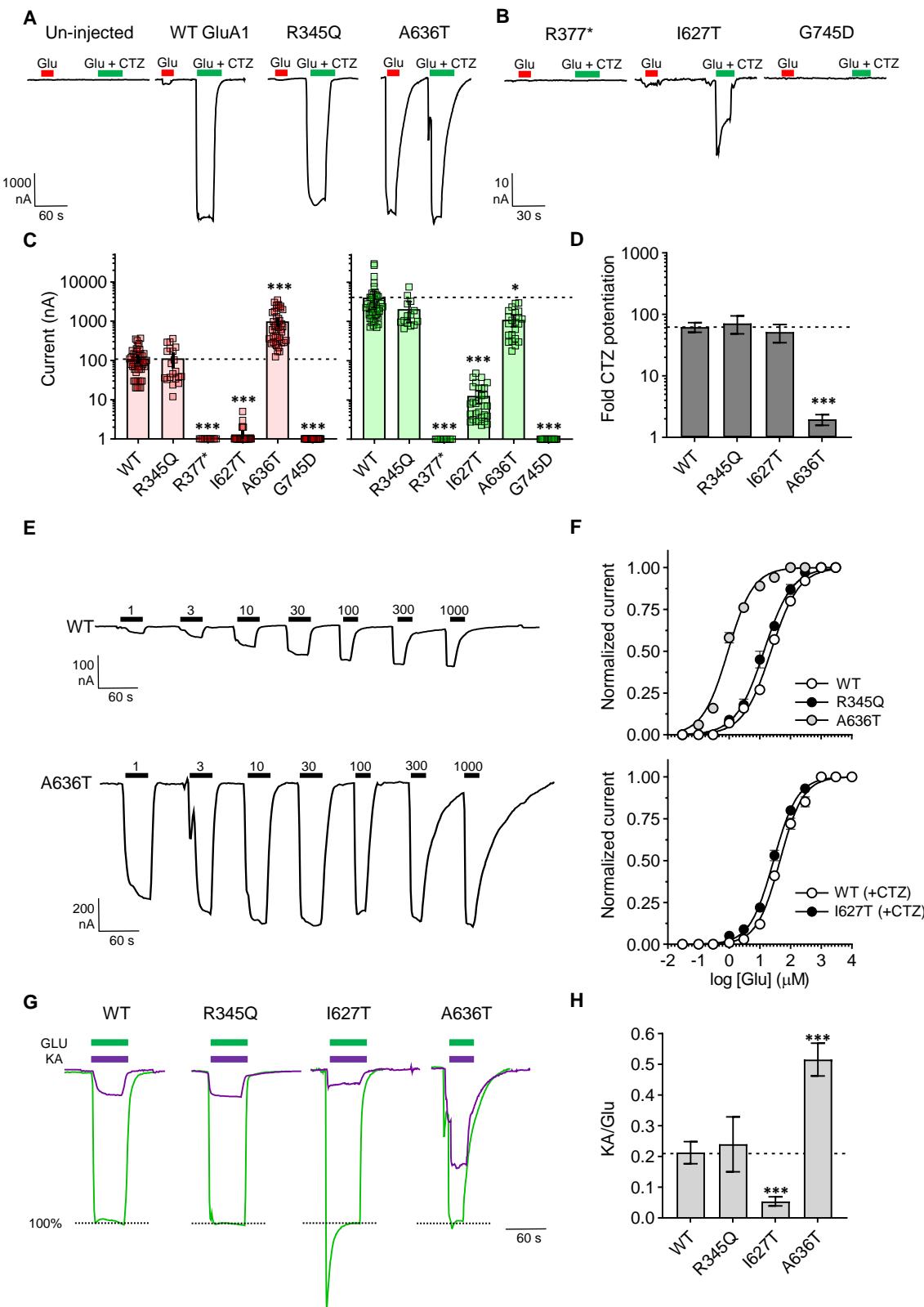


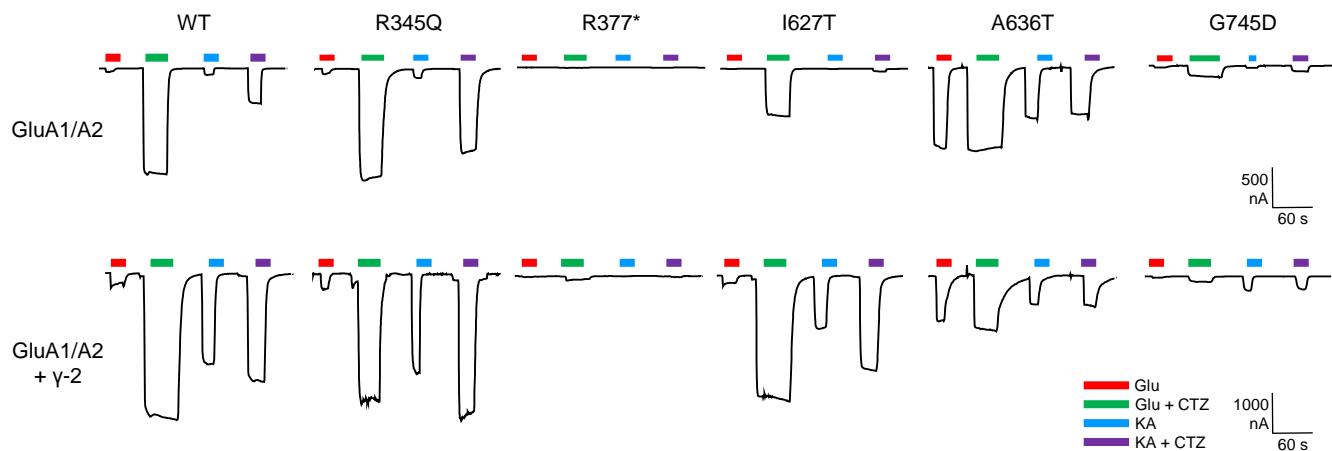
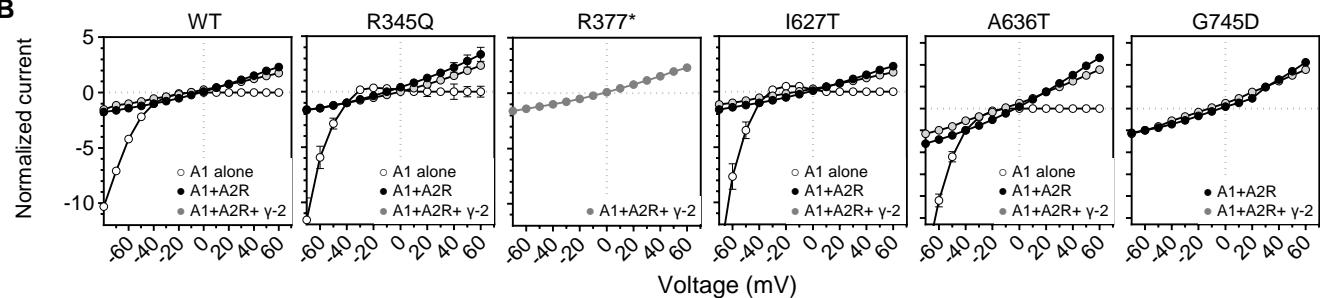
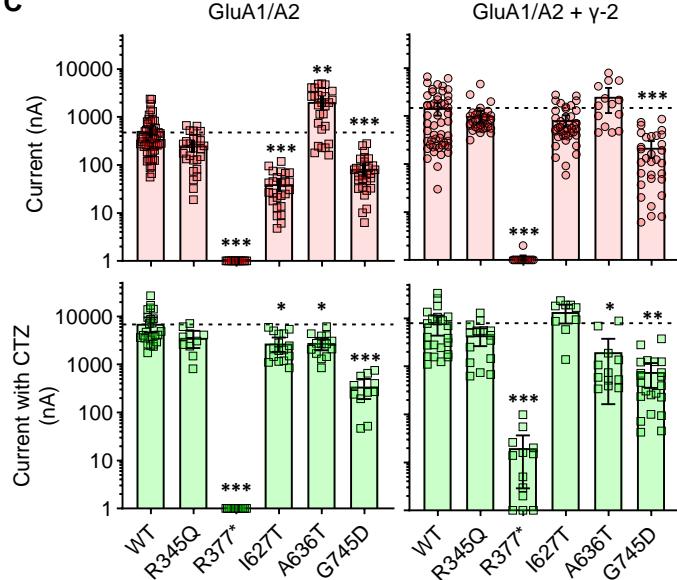
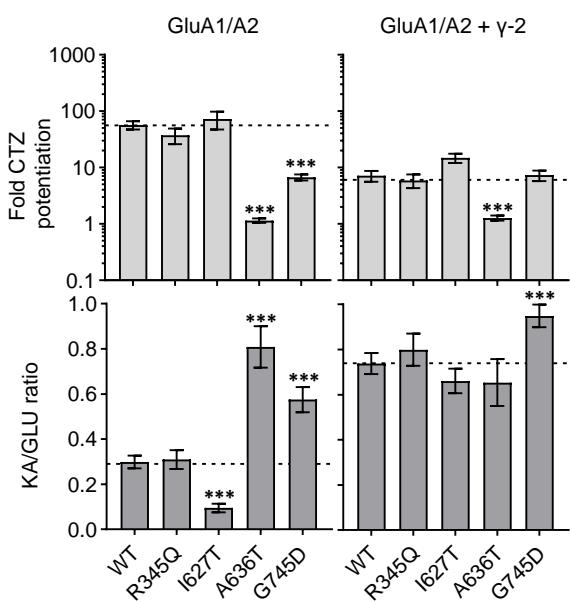
**Figure 1**

**Figure 2****A****Indel presentation**

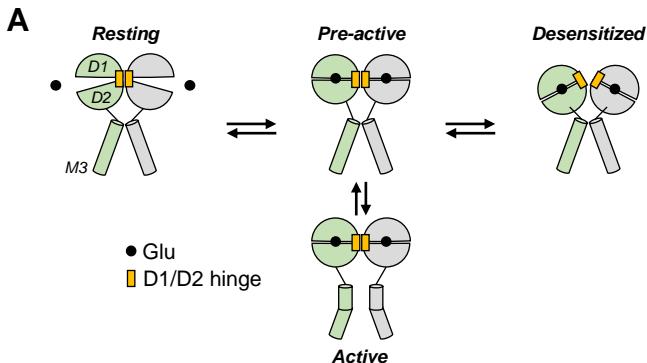
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1bp mismatch	TAATGTCAGTTAACGAAAGGT   CGTCGGACTAATTATACTGCATG
1bp deletion*	TAATGTCAGTTAACGAAAGGT   CGTCGGACTAATTATACTGCATG
1bp deletion*	TAATGTCAGTTAACGAAAGGT   CGTCGGACTAATTATACTGCATG
3bp deletion	TAATGTCAGTTAACGAAAGGT   CGTCGGACTAATTATACTGCATG
3bp deletion	TAATGTCAGTTAACGAAAGGT   CGTCGGACTAATTATACTGCATG
17bp deletion*	TAATGTCAGTTAACGAAAGGT   CGTCGGACTAATTATACTGCATG
22bp deletion*	TAATGTCAGTTAACGAAAGGT   CGTCGGACTAATTATACTGCATG

**B****Uninjected *Xenopus tropicalis******gria1* crispant****C****Uninjected *Xenopus tropicalis******gria1* Crispants Batch 1*****gria1* Crispants Batch 2*****gria1* Crispants Batch 3****D****E****F****G**

**Figure 3**

**Figure 4****A****B****C****D**

**Figure 5**



Mutation	Activation		Desensitization	
	GluA1	GluA1/A2	GluA1	GluA1/A2
I627T	↓	↓	No change	No change
A636T	↑	↑	↓	↓
G745D	LoF	↑	Unknown	↓

