

## DATA SHEET

<b>Catalog #</b>	AG-10300-262
<b>Cell Line Designation</b>	Glutamate Receptor, Metabotropic 2 cell line
<b>Parental Cell</b>	HEK 293-CNG Slca3 cell (AG-10200-238)
<b>Gene Introduced</b>	Human Glutamate Receptor, Metabotropic 2 (GRM2)
<b>NCBI Accession #</b>	NP_000830

### USAGE

- cAMP assay for Gi-coupled human Glutamate Receptor, Metabotropic 2 (GRM2).
- HEK293-CNG-Slca3 cells (AG-10200-238) without transfected GRM2 are used as a negative control.

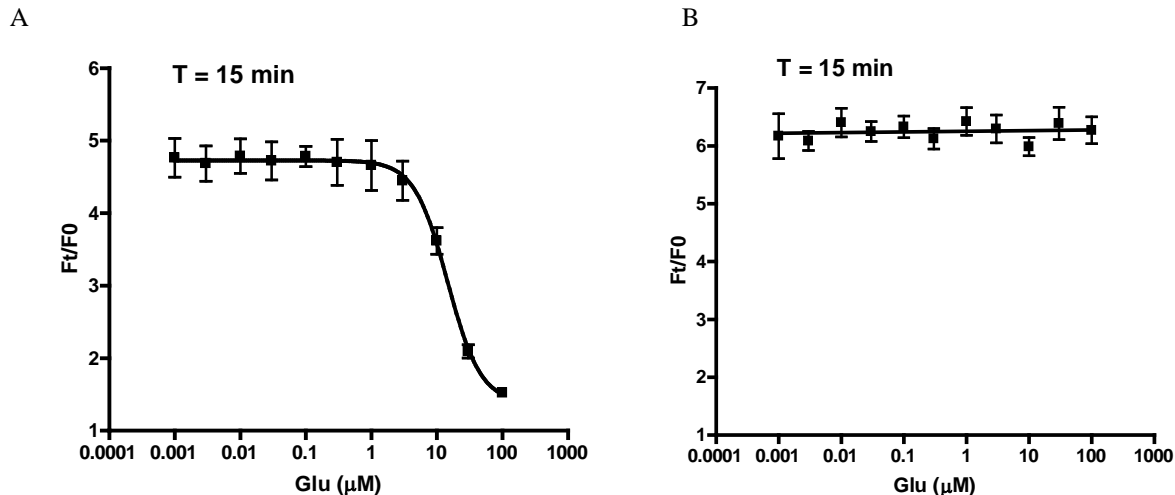
### QUALITY CONTROL

1. This cell line has been tested negative for *Mycoplasma sp.*
2. This cell line has been tested positive for GRM2 specific response.
3. Surviving rate: More than 2.5 million/vial on the second day after thawing.
4. The receptor specific activity is stable for 10 weeks continuous passage.

### CELL CULTURE CONDITION

1. Growth medium: 90% DMEM with Glutamax, 10% FBS, 250  $\mu\text{g/ml}$  G418, 1  $\mu\text{g/ml}$  puromycin and 5  $\mu\text{g/ml}$  blasticidin
2. Freezing medium: 10% DMSO, 90% complete medium

### DATA EXAMPLE



#### Figure 1. Response of ACTOne GRM2 cell line & parental cell line to Glutamic acid.

ACTOne GRM2 cells and parental cells (AG-10200-200) were plated overnight in 20 ml culture medium on a BD Biocoat 384 well plate. The next day, cells were dye-loaded with 20 ml/well of 1X Dye-loading solution (ACTOne Membrane Potential Assay Kit). After 2 hours of incubation at room temperature, two readings were obtained prior to and 20 min after the addition of Glutamic acid. Ratios of the two readings (F/F0) are plotted in the figure.

- A. Dose response curve of Glutamic acid in ACTOne GRM2 cell line. EC50 = 14.5  $\mu\text{M}$  in the presence of PDE inhibitor Ro20-1724 and  $\beta$ -adrenoceptor agonist isoproterenol.
- B. Parental cells do not respond to Glutamic acid.