

# NBEA binds GLRB

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## Introduction

Reactome is open-source, open access, manually curated and peer-reviewed pathway database. Pathway annotations are authored by expert biologists, in collaboration with Reactome editorial staff and cross-referenced to many bioinformatics databases. A system of evidence tracking ensures that all assertions are backed up by the primary literature. Reactome is used by clinicians, geneticists, genomics researchers, and molecular biologists to interpret the results of high-throughput experimental studies, by bioinformaticians seeking to develop novel algorithms for mining knowledge from genomic studies, and by systems biologists building predictive models of normal and disease variant pathways.

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## Literature references

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Reactome database release: 88

This document contains 1 reaction ([see Table of Contents](#))

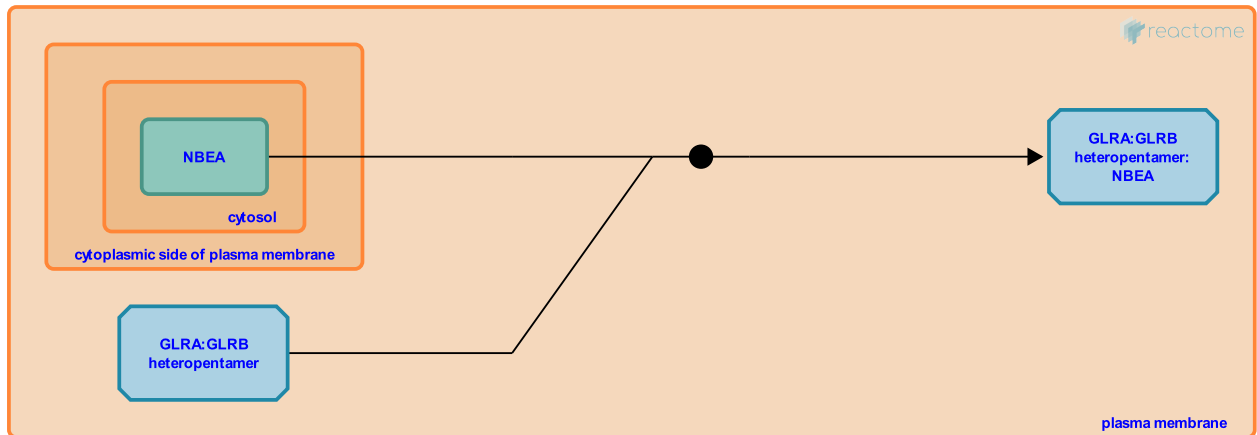
## NBEA binds GLRB ↗

**Stable identifier:** R-HSA-9673173

**Type:** binding

**Compartments:** plasma membrane

**Inferred from:** [Nbea binds Glrb \(Rattus norvegicus\)](#)



Binding of NBEA to GLRB (glycine receptor beta subunit) was demonstrated by co-immunoprecipitation of recombinant rat Glrb with endogenous Nbea from rat brain, as well as co-immunoprecipitation of recombinant rat Glrb with recombinant mouse Nbea. It was also shown, by immunocytochemistry, that NBEA and glycine receptor co-localize at postsynaptic densities of inhibitory synapses (del Pino et al. 2011). NBEA may be involved in trafficking of glycine receptors to the plasma membrane. As glycine receptors are pre-assembled at the endoplasmic reticulum (Griffon et al. 1999), the reaction diagram depicts binding of NBEA to this pre-assembled receptor complex, consisting of glycine receptor alpha and beta subunits.

### Editions

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