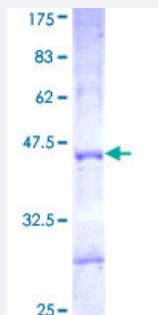


# PCDHGA3 (Human) Recombinant Protein (Q01)

Catalog # H00056112-Q01

Size 10 ug, 25 ug

## Applications



## Specification

<b>Product Description</b>	Human PCDHGA3 partial ORF ( NP_061739, 98 a.a. - 206 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Sequence</b>	QIPLCLVKINILVEDKLKIFEVEIEIKDINDNAPNFPTEELEIKIGELTVPGTRFPIKTAFDPDVGINSLQNYKLSPNDYFSLAVNSVSEGAKYPELVLERALDREKKE
<b>Host</b>	Wheat Germ (in vitro)
<b>Theoretical MW (kDa)</b>	37.73
<b>Interspecies Antigen Sequence</b>	Mouse (85); Rat (86)
<b>Preparation Method</b>	<a href="#">in vitro wheat germ expression system</a>
<b>Purification</b>	Glutathione Sepharose 4 Fast Flow
<b>Quality Control Testing</b>	12.5% SDS-PAGE Stained with Coomassie Blue.
<b>Storage Buffer</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
<b>Storage Instruction</b>	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
<b>Note</b>	Best use within three months from the date of receipt of this protein.

## Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

## Gene Info — PCDHGA3

Entrez GeneID [56112](#)

GeneBank Accession# [NM\\_018916](#)

Protein Accession# [NP\\_061739](#)

Gene Name PCDHGA3

Gene Alias PCDH-GAMMA-A3

Gene Description protocadherin gamma subfamily A, 3

Omim ID [606290](#)

Gene Ontology [Hyperlink](#)

**Gene Summary**

This gene is a member of the protocadherin gamma gene cluster, one of three related clusters tandemly linked on chromosome five. These gene clusters have an immunoglobulin-like organization, suggesting that a novel mechanism may be involved in their regulation and expression. The gamma gene cluster includes 22 genes divided into 3 subfamilies. Subfamily A contains 12 genes, subfamily B contains 7 genes and 2 pseudogenes, and the more distantly related subfamily C contains 3 genes. The tandem array of 22 large, variable region exons are followed by a constant region, containing 3 exons shared by all genes in the cluster. Each variable region exon encodes the extracellular region, which includes 6 cadherin ectodomains and a transmembrane region. The constant region exons encode the common cytoplasmic region. These neural cadherin-like cell adhesion proteins most likely play a critical role in the establishment and function of specific cell-cell connections in the brain. Alternative splicing has been described for the gamma cluster genes. [provided by RefSeq]

Other Designations -

## Disease

- [Tobacco Use Disorder](#)