

Recombinant Full Length Human PCDHGA5 Protein, GST-tagged

Cat. No. PCDHGA5-04HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human PCDHGA5 full-length ORF (NP_114443.1,) recombinant protein with GST-tag at N-terminal was expressed in E. coli Cell Free System.
Species	Human
Source	E. coli Cell Free System
ProteinLength	1-931 aa
Description	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.

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Tag	GST
Molecular Mass	115.2 kDa
AA Sequence	MASPPRGWGCGELLFPFMLLGLTCEPGSGQIRYSMPPEELDKGSFVGNIKDLGLEP QELAERGVRIVSRGRTQLFALNPRSGSLVTAGRIDREELCAQSPLCVVNFNILENK MKIYGVVEVEIIDINDNFPRFRDEELKVKNENAAAGTRLVLPFARDADGVNSLSRSYQ LSSNLHFSLDVVSGTDGQKYPELVLEQPLDREKETVHDLTALDGGDPVLSGTTHI RVTVLDANDNAPLFTPSEYSVSVPENIPVGTRLLMLTATDPDEGINGKLTYSFRNEEE KISETFQLDSNLGEISTLQSLDYEESRFYLMVVAQDGGALVASAKVVVTVQDVNDN APEVILTSLTSSISEDCLPGTVIALFSVHDGDSGENGEIACSIPRNLPFKLEKSDNYY HLLTTRDLREETS DY NITLTVMDHGTPLSTESHIPKLVADVNDNPPNFPQASYSTS VTENNPRGVSIFSVTAHDPDSDGNARVTYSLAEDTFQGAPLSSYVSINSDTGVLIAL RSFDYEQLRDLQLWVTASDSGNPPLSSNVSLSLFVLDQNDNTP EILYPALPTDGSTG VELAPRSAEPGYLVTKVAVDKDSGQNAWLSYRLLKASEPGLFAVGLHTGEVRTAR ALLDRDALKQSLVVAVEDHGGPPLSATFTVTVAADRIPDILADLGSIKTPIDPEDLDL TLYLVVAVAAVSCVFLAFVIVLLVLRRLRRWHKSRLQAEGSRLAGVPASHFVGVDGV RAFLQTYSHVSLTADSRKSHLIFPQPNYADTLLSEESCEKSEPLLMSDKVDANKEE RRVQVSFLFR
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

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Storage Buffer 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name PCDHGA5 protocadherin gamma subfamily A, 5 [Homo sapiens]

Official Symbol PCDHGA5

Synonyms PCDHGA5; protocadherin gamma subfamily A, 5; protocadherin gamma-A5; cadherin ME3; CDH GAMMA A5; ME3; PCDH GAMMA A5; CDH-GAMMA-A5; PCDH-GAMMA-A5; MGC142020

Gene ID 56110

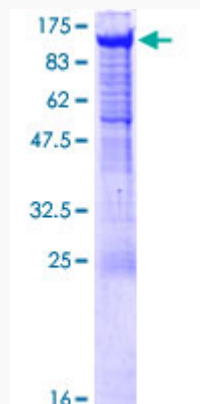
mRNA Refseq NM_032054

Protein Refseq NP_114443

MIM 606292

UniProt ID Q9Y5G8

SDS-PAGE



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