

Recombinant Human PCDHGA2, His-tagged

Cat. No. PCDHGA2-30552TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 748-932 of Human PCDHGA2 with an N terminal His tag; Predicted MWt 21kDa.
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Species	Human
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Source	E.coli
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ProteinLength	748-932 a.a.
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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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Conjugation	HIS
Form	Lyophilised:Reconstitute with 63 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	AFLQTYSHVSLTADSRKSHLIFPQPNYADTLISQESCEK KDFLSAPQSLLEEEREET FSQQAPPNTDWRFSQAQRPG TSGSQNGDDTGTWPNNQFDTEMLQAMILASASEA ADGS STLGGGAGTMGLSARYGPQFTLQHVPDYRQNVYIPGSN ATLTNAAGKRDG KAPAGGNGNKKKSGKKEKK

GENE INFORMATION

Gene Name	PCDHGA2 protocadherin gamma subfamily A, 2 [Homo sapiens]
Official Symbol	PCDHGA2
Synonyms	PCDHGA2; protocadherin gamma subfamily A, 2; protocadherin gamma-A2; PCDH GAMMA A2;
Gene ID	56113
mRNA Refseq	NM_018915
Protein Refseq	NP_061738
MIM	606289

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Uniprot ID	Q9Y5H1
Chromosome Location	5q31
Function	calcium ion binding;

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