# Protocadherin Gamma-A2 (PCDHGA2) Human Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Protocadherin gamma-A2 (PCDHGA2), Recombinant Protein |
| **Full Product Name** | Recombinant Human Protocadherin gamma-A2 (PCDHGA2), partial |
| **Product Gene Name** | PCDHGA2 recombinant protein |
| **Product Synonym Gene Name** | PCDHGA2 |
| **Sequence** | GQ IRYSVREEID RGSFVGNIAK DLGLEPLALA EQGVRIVSRG RSQLFALNPR SGSLVTANRI DREELCAQSA PCLLNFNILL EDKLTIYSVE VEITDINDNA PRFGVEELEL KISETTTPGF RIPLKNAHDA DVGENALQKY ALNPNDHFSL DVRRGADGNK YPELVLERSL DREEEAVHHL VLVASDGGDP VLSGTSRICV KVLDANDNAP VFTQPEYRIS IPENTLVGTR ILTVTATDAD EGYYAQVVYF LEKSPGETSE VFELKSTSGE LTIIKDLDYE DATFHEIDIE AQDGPGLLTR AKVIVTVLDV NDNAPEFYMT SATSSVSEDS LPGTIIGLFN VHDRDSGQNA FTTCSLPEDL PFKLEKSVDN YYRLVTTRAL DREQFSFYNI TLTAKDGGNP SLSTDAHILL QVADINDNAP AFSRTSYSTY IPENNPRGAS VFSVTAHDPD SNDNAHVTYS FAEDTVQGAP LSSYISINSD TGVLYALRSF DYEQLRDLQV WVIARDSGNP PLSSNVSLSL FVLDQNDNAP EILYPAFPTD GSTGVELAPR SAEPGYLVTK VVAVDRDSGQ NAWLSYHLLK ASEPGLFSVG LHTGEVRTAR ALLDRDALKQ SLVVAIQDHG QPPLSATVTL TVAVADRIPD ILADLGSLEP SAIPNDSDLT LY |
| **Host** | E Coli or Yeast or Baculovirus or Mammalian Cell |
| **Form/Format** | Lyophilized or liquid (Format to be determined during the manufacturing process) |
| **Purity/Purification** | Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific) |
| **Preparation and Storage** | Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended. |
| **Molecular Weight** | 90,284 Da |
| **Sequence Positions** | 29-692 |
| **Tag Information** | This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information. |
| **Sterility** | Sterile filter available upon request. |
| **Endotoxin** | Low endotoxin available upon request. |
| **OMIM** | 604968 |
| **3D Structure** | ModBase 3D Structure for Q9Y5H1 |
| **Species** | Human |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for PCDHGA2 recombinant protein** | 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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| **Other Notes** | Small volumes of PCDHGA2 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |
| **Searchable Terms for PCDHGA2 purchase** | MBS1406109 is a recombinant protein targeting PCDHGA2. Also known as Recombinant Human Protocadherin gamma-A2 (PCDHGA2), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PCDHGA2. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 11056030 |
| **NCBI GeneID** | 56113 |
| **NCBI Accession #** | NP_061738.1 |
| **UniProt Primary Accession #** | Q9Y5H1 |
| **UniProt Secondary Accession #** | Q52LL6; Q9Y5D5 |
| **UniProt Related Accession #** | Q9Y5H1 |
| **GenBank Nucleotide #** | NM_018915.3 |
| **NCBI Official Full Name** | protocadherin gamma-A2 isoform 1 |
| **NCBI Official Synonym Full Names** | protocadherin gamma subfamily A, 2 |
| **NCBI Official Symbol** | PCDHGA2 |
| **NCBI Official Synonym Symbols** | PCDH-GAMMA-A2 |
| **UniProt Protein Name** | Protocadherin gamma-A2 |
| **Protein Family** | Protocadherin |
| **UniProt Gene Name** | PCDHGA2 |
| **UniProt Synonym Gene Names** | PCDH-gamma-A2 |
| **NCBI Protein Information** | protocadherin gamma-A2 |
| **UniProt Comments for PCDHGA2** | Potential calcium-dependent cell-adhesion protein. May be involved in the establishment and maintenance of specific neuronal connections in the brain. |
| **Research Articles on PCDHGA2** | **1.** Clinical trial of gene-disease association and gene-environment interaction. (HuGE Navigator) |
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