

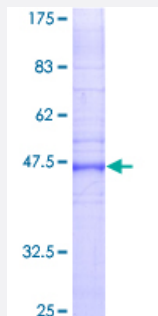
Full-Length

GJB2 (Human) Recombinant Protein (P01)

Catalog # H00002706-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human GJB2 full-length ORF (AAH17048, 1 a.a. - 226 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MDWGTLLQTLGGVNHSTSIGKIWLTVLIFRIMLVVAAKEVWGDEQADFVCNTLQPGCKNVCYD
HYFPISHIRLWALQLIFVSTPALLVAMHVAYRRHEKKRKFIKGEIKSEFKDIEEIKTKVRIEGLWWT
YTSSIFFRVIFEAAFMVVFYVMYDGFMSQRLVKCNAWPCPNTVDCFVSRPTEKTVFTVFMAVSGI
CILLNVTCLCYLLIRYCSGKSKKPV

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

50.6

Interspecies Antigen Sequence

Mouse (93); Rat (94)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

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

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

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 — GJB2

Entrez GeneID [2706](#)

GeneBank Accession# [BC017048](#)

Protein Accession# [AAH17048](#)

Gene Name GJB2

Gene Alias CX26, DFNA3, DFNB1, HID, KID, NSRD1, PPK

Gene Description gap junction protein, beta 2, 26kDa

Omim ID [121011](#) [124500](#) [148210](#) [148350](#) [149200](#) [220290](#) [601544](#) [602540](#)

Gene Ontology [Hyperlink](#)

Gene Summary This gene encodes a member of the gap junction protein family. The gap junctions were first characterized by electron microscopy as regionally specialized structures on plasma membranes of contacting adherent cells. These structures were shown to consist of cell-to-cell channels that facilitate the transfer of ions and small molecules between cells. The gap junction proteins, also known as connexins, purified from fractions of enriched gap junctions from different tissues differ. According to sequence similarities at the nucleotide and amino acid levels, the gap junction proteins are divided into two categories, alpha and beta. Mutations in this gene are responsible for as much as 50% of pre-lingual, recessive deafness. [provided by RefSeq]

Other Designations OTTHUMP00000018093|OTTHUMP00000018094|connexin 26|gap junction protein beta 2|gap junction protein, beta 2, 26kD (connexin 26)

Disease

- [Aminoglycoside-induced deafness](#)
- [Apraxias](#)
- [Attention Deficit Disorder with Hyperactivity](#)
- [Auditory Perception](#)
- [Auditory Threshold](#)
- [Cholesteatoma](#)
- [Chorioamnionitis](#)
- [Chromosome Aberrations](#)
- [Chromosome Deletion](#)
- [Chronic Disease](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Cognition](#)
- [Cytomegalovirus Infections](#)
- [Deafness](#)
- [Disease Progression](#)
- [Diseases in Twins](#)
- [Fetal Membranes](#)
- [Functional Laterality](#)
- [Genetic Predisposition to Disease](#)
- [Hearing](#)
- [Hearing Disorders](#)
- [Hearing Loss](#)
- [Keratoderma](#)

- [Language Development Disorders](#)
- [Mutism](#)
- [Obstetric Labor](#)
- [Occupational Diseases](#)
- [Ovarian Neoplasms](#)
- [Pre-Eclampsia](#)
- [Premature Birth](#)
- [Presbycusis](#)
- [Psoriasis](#)
- [Recurrence](#)
- [Rhinitis](#)
- [Sinusitis](#)
- [Speech Perception](#)
- [Stomach Neoplasms](#)
- [Syndrome](#)
- [Usher Syndromes](#)
- [Vestibular Diseases](#)
- [Vestibulocochlear Nerve Diseases](#)