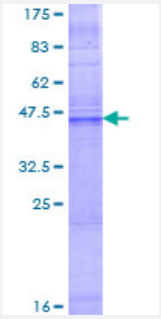
Full-Length

GJB2 (Human) Recombinant Protein (P02)

Catalog # H00002706-P02 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human GJB2 full-length ORF (NP_003995.2, 1 a.a. - 226 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MDWGTLQTILGGVNKHSTSIGKIWLTVLFIFRIMILVVAAKEVWGDEQADFVCNTLQPGCKNVCYD HYFPISHIRLWALQLIFVSTPALLVAMHVAYRRHEKKRKFIKGEIKSEFKDIEEIKTQKVRIEGSLWWT YTSSIFFRVIFEAAFMYVFYVMYDGFSMQRLVKCNAWPCPNTVDCFVSRPTEKTVFTVFMIAVSGI CILLNVTELCYLLIRYCSGKSKKPV
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	52.6
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#	NM_004004.3
Protein Accession#	NP_003995.2
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 char acterized by electron microscopy as regionally specialized structures on plasma membranes of c ontacting adherent cells. These structures were shown to consist of cell-to-cell channels that facilit ate 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. Accord ing 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 a s 50% of pre-lingual, recessive deafness. [provided by RefSeq
Other Designations	OTTHUMP00000018093|OTTHUMP00000018094|connexin 26|gap junction protein beta 2|gap ju nction 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