# GJC3 Peptide - Middle Region Blocking Peptide

## PRODUCT OVERVIEW

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| **Product Name** | GJC3, Blocking Peptide |
| **Full Product Name** | GJC3 Peptide - middle region |
| **Product Gene Name** | GJC3 blocking peptide |
| **Product Synonym Gene Name** | CX29; CX30.2; CX31.3; GJE1 |
| **Sequence** | WHWELSGKGK EEETLIQGRE GNTDVPGAGS LRLLWAYVAQ LGARLVLEGA A |
| **Species Reactivity** | Human |
| **Form/Format** | Lyophilized powder |
| **Preparation and Storage** | Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles. |
| **Antibody/Peptide Pairs** | GJC3 peptide (MBS3228208) is used for blocking the activity of GJC3 antibody (MBS3203236) |
| **Molecular Weight** | 31kDa |
| **OMIM** | 611925 |
| **Product Categories/Family for GJC3 blocking peptide** | Peptide |
| **Applications Tested/Suitable for GJC3 blocking peptide** | Western Blot (WB) |
| **Related Product Information for GJC3 blocking peptide** | This is a synthetic peptide designed for use in combination with anti-GJC3 Antibody, made<br><br>Target Description: This gene encodes a gap junction protein. The encoded protein, also known as a connexin, plays a role in formation of gap junctions, which provide direct connections between neighboring cells. Mutations in this gene have been reported to be associated with nonsyndromic hearing loss. |
| **Other Notes** | Small volumes of GJC3 blocking peptide 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 GJC3 purchase** | MBS3228208 is a blocking peptide targeting GJC3. Also known as GJC3 Peptide - middle region. Reactive in Human. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GJC3. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 31559821 |
| **NCBI GeneID** | 349149 |
| **NCBI Accession #** | NP_853516 |
| **UniProt Primary Accession #** | Q8NFK1 |
| **UniProt Related Accession #** | Q8NFK1 |
| **GenBank Nucleotide #** | NM_181538 |
| **NCBI Official Full Name** | gap junction gamma-3 protein |

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| **NCBI Official Synonym Full Names** | gap junction protein gamma 3 |
| **NCBI Official Symbol** | GJC3 |
| **NCBI Official Synonym Symbols** | CX29; GJE1; CX30.2; CX31.3 |
| **UniProt Protein Name** | Gap junction gamma-3 protein |
| **UniProt Synonym Protein Names** | Connexin-30.2; Cx30.2; Connexin-31.3; Cx31.3; Gap junction epsilon-1 protein |
| **Protein Family** | Gap junction gamma-3 protein |
| **UniProt Gene Name** | GJC3 |
| **UniProt Synonym Gene Names** | GJE1; Cx30.2; Cx31.3 |
| **UniProt Entry Name** | CXG3_HUMAN |
| **NCBI Protein Information** | gap junction gamma-3 protein |
| **NCBI Summary for GJC3** | This gene encodes a gap junction protein. The encoded protein, also known as a connexin, plays a role in formation of gap junctions, which provide direct connections between neighboring cells. Mutations in this gene have been reported to be associated with nonsyndromic hearing loss.[provided by RefSeq, Feb 2010] |
| **UniProt Comments for GJC3** | GJC3: One gap junction consists of a cluster of closely packed pairs of transmembrane channels, the connexons, through which materials of low MW diffuse from one cell to a neighboring cell. Belongs to the connexin family. Gamma-type subfamily.<br><br>Protein type: Membrane protein, integral; Membrane protein, multi-pass<br><br>Chromosomal Location of Human Ortholog: 7q22.1<br><br>Cellular Component: connexon complex; integral to membrane; myelin sheath<br><br>Molecular Function: protein homodimerization activity<br><br>Biological Process: myelination; sensory perception of sound; cell communication |
| **Research Articles on GJC3** | **1.** Based on these findings, we suggest that p.W77S mutant has a dominant negative effect on the formation and function of the gap junction. These results give a novel molecular elucidation for the mutation of GJC3 in the development of hearing loss. |
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