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Product datasheet for MG226800

Gjb1 (NM_008124) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gjb1 (NM_008124) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gjb1
Synonyms:	Cnx32; connex; connexin-32; Cx32; Cxng
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG226800 representing NM_008124
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAACTGGACAGGTCTATACACCTTGCTCAGTGGCGTGAATCGGCACTCTACAGCCATTGGCCGAGTAT
GGCTGTCTGTCATCTTCATCTTCAGAATCATGGTGCTGGTGGTGGCTGCTGAGAGCGTGTGGGGGGATGA
GAAGTCCTCTTTCATCTGTAACACCCTCCAGCCGGGCTGCAACAGCGTCTGCTATGACCATTTTTTCCCC
ATCTCCCACGTGCGCCTATGGTCCCTGCAGCTTATCTTGGTTTCCACCCCAGCTCTCCTCGTGGCAATGC
ACGTAGCTCACCAACAGCACATAGAAAAGAAAATGCTACGGCTTGAGGGGCATGGGGACCCCCTTCACCT
GGAAGAGGTAAAGAGACACAAGGTGCACATCTCAGGGACACTGTGGTGGACCTATGTCATCAGTGTGGTG
TTCCGGCTGCTGTTCGAGGCTGTCTTCATGTATGTCTTCTATCTGCTCTACCCCGGCTATGCCATGGTGC
GGCTGGTCAAGTGTGAAGCCTTCCCCTGCCCCAACACAGTGGACTGCTTCGTGTCCCGCCCCACCGAGAA
AACCGTCTTCACTGTCTTTATGCTCGCAGCCTCCGGCATCTGCATTATCCTCAACGTGGCGGAGGTGGTG
TACCTCATCATCCGGGCCTGTGCCCGCCGTGCTCAGCGCCGCTCCAATCCGCCCTCCCGCAAGGGCTCGG
GCTTCGGCCACCGCCTCTCACCTGAATACAAGCAGAATGAGATCAACAAGCTGCTGAGCGAGCAGGATGG
CTCTCTGAAAGACATACTGCGCCGCAGCCCTGGCACAGGGGCCGGGCTCGCTGAAAAGAGCGACCGATGC
TCAGCCTGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

>MG226800 representing NM_008124
Red=Cloning site Green=Tags(s)

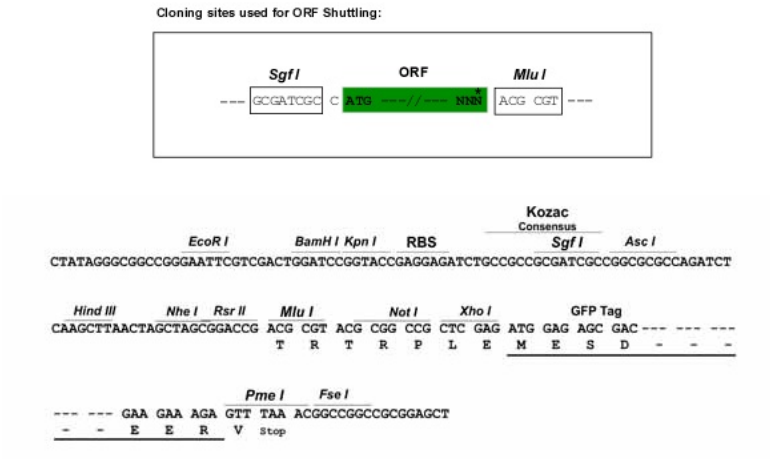
MNWTGLYTLLSGVNRHSTAIGRVWLSVIFIFRIMVLVVAAESVWGDEKSSFICNTLQPGCNSVCYDHFFP
ISHVRLWSLQLILVSTPALLVAMHVAHQQHIEKKMLRLEGHGDPLHLEEVKRHKVHISGTLWWTYVISVV
FRLLFEAVFMYVFYLLYPGYAMVRLVKCEAFPCPNTVDCFVSRPTEKTVFTVFMLAASGICIILNVAEVV
YLIIRACARRAQRRSNPPSRKGSGFGHRLSPEYKQNEINKLLSEQDGSLKDILRRSPGTGAGLAEKSDRC
SAC

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja2811_f12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_008124

ORF Size: 849 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: NM_008124.3, NP_032150.2

RefSeq Size: 1519 bp

RefSeq ORF: 852 bp

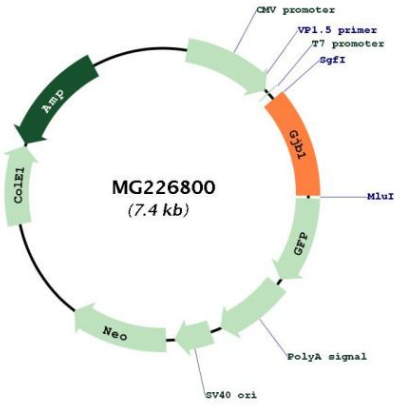
Locus ID: 14618

UniProt ID: P28230

Cytogenetics: X 44.06 cM

Gene Summary: This gene is a member of the gap junction protein (connexin) family. The encoded protein is a component of gap junctions, which are composed of arrays of intercellular channels that provide a route for the diffusion of ions and small molecules between cells. Mutations in a similar gene in human cause X-linked Charcot-Marie-Tooth disease, an inherited peripheral neuropathy. Alternative splicing results in multiple transcript variants encoding the same protein. [provided by RefSeq, Oct 2014]

Product images:



Circular map for MG226800