

Product datasheet for **MG202661**

Gjb2 (NM_008125) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gjb2 (NM_008125) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gjb2
Synonyms:	A1325222; Cnx26; Cx26; Gjb-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG202661 representing NM_008125 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATTGGGACACTCCAGAGCATCCTCGGGGTGTCAACAAACTCCACCAGCATTGGAAAGATCT
GGCTCACGGTCTTTCATCTTCCGCATCATGATCCTCGTGGTGGCTGCAAAGGAGGTGTGGGAGATGA
GCAAGCCGATTTGTCTGCAACACGCTCCAGCCTGGCTGCAAGAATGTATGCTACGACCACCACTCCCC
ATCTCTCACATCCGGCTCTGGCTCTGCAGCTGATCATGGTGTCCAGCCAGCCCTCTGGTAGCTATGC
ATGTGGCCTACCGGAGACATGAAAAGAAACGGAAGTTCATGAAGGAGAGATAAAGAACGAGTTTAAGGA
CATCGAAGAGATCAAACCCAGAAGGTCCGTATCGAAGGGTCCCTGTGGTGGACCTACACCACCAGCATC
TTCTTCCGGGTACATCTTTGAAGCCGTCTTCATGTACGTCTTTACATCATGTACAATGGCTTCTTCATGC
AACGTCTGGTGAATGCAACGCTTGGCCCTGCCCAATACAGTGGACTGCTTCATTTCCAGGCCACAGA
AAAGACTGTCTTACCCTGTTTATGATTCTGTGTCTGGAATTTGCATTCTGCTAAATATCACAGAGCTG
TGCTATTTGTTTCGTTAGGTATTGCTCAGGAAAGTCCAAAAGACCAGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG202661 representing NM_008125
 Red=Cloning site Green=Tags(s)

MDWGLTQSI LGGV NKHSTSIGKIWLTVLFI FRIMILVVA AKEVWGDEQADFV CNTLQPGCKNVCYDHHFP
 ISHIRLWALQLIMVSTPALLVAMHVAYRRHEKRRKFMKGEIKNEFKDIEEIKTQKVRIEGLWWTYTTSI
 FFRVIFEAVFMYVFYIMYNGFFMQRLVKCNAWPCPNTVDVCFISRPTEKTVFVFMISVSGICILLNITEL
 CYLFVRYCSGKSKRPV

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja2380_e01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_008125

ORF Size: 678 bp

OTI Disclaimer: 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_008125.3](#)

RefSeq Size: 2404 bp

RefSeq ORF: 681 bp

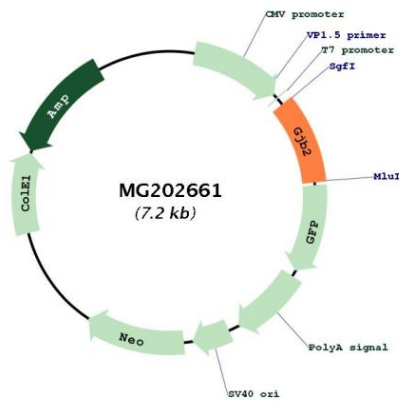
Locus ID: 14619

UniProt ID: [Q00977](#)

Cytogenetics: 14 30.1 cM

Gene Summary: Structural component of gap junctions (PubMed:15692151). Gap junctions are dodecameric channels that connect the cytoplasm of adjoining cells. They are formed by the docking of two hexameric hemichannels, one from each cell membrane (By similarity). Small molecules and ions diffuse from one cell to a neighboring cell via the central pore (PubMed:15692151). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG202661