

Product datasheet for **MG203616**

Gjb5 (NM_010291) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Gjb5 (NM_010291) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Gjb5
Synonyms: Cnx31.1; Cx31.1; Gjb-5
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG203616 representing NM_010291
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAAGTGGAGTGTTTTTGAGGGACTCCTGAGTGGAGTCAACAAGTACTCCACAGCCTTTGGTGGCATCT
 GGCTGTCTCTGGTCTTCGTCTCCGTGTGCTGGTGTACCTGGTGACAGCTGAGCGCGTGTGGGGAGACGA
 CCAGAAGGATTTGACTGCAACACCAGGCAACCGGGCTGTACCAATGTCTGCTACGATGAGTTCTCCCC
 GTGTCCCACGTGCGCCTCTGGGCTCTGCAGCTCATCCTGGTCACCTGCCCTCTTTGCTTGTGGTATGC
 ATGTGGCCTATCGAAAGGCTCGAGAGAAGAAGTACCAGGAAAAGTTGGCGAAGTTACCTTTACCCGAA
 TCCCGGCAAGAAGCGGGTGGACTCTGGTGGACATACGTCTTCAGCCTCTCGTTCAAGGCCACCATAGAC
 ATTATCTTCTCTACCTCTCCACGCATTCTATCCAGATATACCCTCCCTTCTATGGTCAAGTGCCATG
 CGGAGCCGTGTCCCAACACAGTGGACTGCTTCATTGCCAAGCCCTCCGAGAAAAACATCTTCATTGTCTT
 CATGGTGGTCACGGCCGTATCTGCATCCTGCTTAACCTTGTGGAGCTGATCTACCTAGTGATTAAGCGG
 TGTTCTGAGTGTGCGCAGCTGAGGAGACCACCCACTGCACATGCAAGAATGACCCAACTGGGCCAACT
 CTCCTAGCAAAGAGAAGGACTTCCTCTCATGCGACCTCATCTTTCTGGGCTCGGACGCTCACCCGCCCTC
 GTTACCAGACCGCCCTCGAGCCACGTGAAGAAAACCATCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG203616 representing NM_010291
 Red=Cloning site Green=Tags(s)

MNWSVFEGLLSGVNKYSTAFGRWLVLVVFVFRVLVYLVTAEVWGGDDQKDFDCNTRQPGCTNVCYDEFFP
 VSHVRLWALQLILVTCPSLLVVMHVAYRKAREKKYQEKVGEGLYPNPGKKRGLWWTYVFLSFKATID
 IIFLYLFHAFYPRYTLPSMVKCHAEPNVDVDFIAKPSEKNIFIVFMVVTAVICILLNLVELIYLVIKR
 CSECAQLRRPPTAHAKNDPNWANSPSKEKDFLSCDLIFLGSDAHPPLLPDRPRAHVKKTIL

TRTRPLE - GFP Tag - V

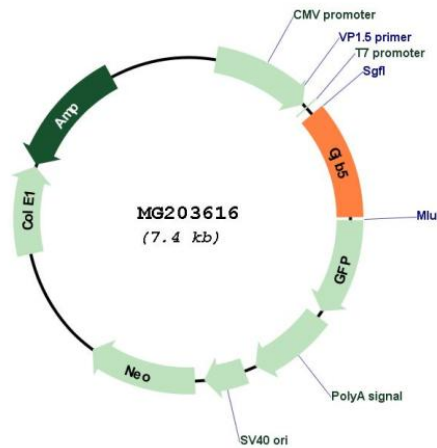
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_010291

ORF Size: 813 bp

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|-------------------------------|---|
| 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: | <ol style="list-style-type: none">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_010291.2 , NP_034421.1 |
| RefSeq Size: | 1705 bp |
| RefSeq ORF: | 816 bp |
| Locus ID: | 14622 |
| UniProt ID: | Q02739 |
| Cytogenetics: | 4 61.51 cM |
| Gene Summary: | 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.[UniProtKB/Swiss-Prot Function] |