

Product datasheet for **RG209282**

GJB7 (NM_198568) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: GJB7 (NM_198568) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: GJB7
Synonyms: bA136M9.1; connexin25; CX25
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG209282 representing NM_198568
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGTTGGATGTTCTCCTCAGAGATCTCCTGAGTGGAGTAAATAAATACTCCACTGGGACTGGATGGATTT
 GGCTGGCTGTCGTGTTTGTCTTCCGTTTGGCTGGTCTACATGGTGGCAGCAGAGCACGTGTGGAAAGATGA
 GCAGAAAGAGTTTGAGTGCAACAGTAGACAGCCCGTTGCAAAAATGTGTGTTTGGATGACTTCTCCCC
 ATTTCCCAAGTCAGACTTTGGGCCTTACAACCTGATAATGGTCTCCACACCTTCACTTCTGGTGGTTTTAC
 ATGTAGCCTATCATGAGGGTAGAGAGAAAAGGCACAGAAAGAACTCTATGTCAGCCAGGTACAATGGA
 TGGGGCCTATGGTACGCTTATCTTATCAGCCTCATTGTTAAACTGGTTTTGAAATTGGCTTCTTGT
 TTATTTTATAAGCTATATGATGGCTTTAGTGTTCCCTACCTTATAAAGTGTGATTTGAAGCCTTGCCCCA
 ACACTGTGGACTGCTTCATCTCCAAACCACTGAGAAGACGATCTTCATCCTCTTCTTGGTCATCACCTC
 ATGCTTGTGATTTGTGTTGAATTCATTGAACTGAGTTTTTTGGTTCTCAAGTGCTTTATTAAGTGCTGT
 CTCAAAAATATTTAAAAAACCTCAAGTCCTCAGTGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG209282 representing NM_198568
 Red=Cloning site Green=Tags(s)

MSWMFLRDLLSGV NKYSTGTGWIWLAVVVFRLLVYMVAAEHVWKDEQKEFECNSRQPGCKNVCFDDFFP
 ISQVRLWALQLIMVSTPSLLVVLHVAYHEGREKRHRKLLYVSPGTMGGGLWYAYLISLIVKTGFEIGFLV
 LFYKLYDGFVSPYLIKCDLKP CNPTVDCFISKPTEKIFILFLVITSCLCIVLNFIELSFLVLKCFIKCC
 LQKYLKKPQVLSV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_198568

ORF Size: 669 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_198568.3](#)

RefSeq Size: 2293 bp

RefSeq ORF: 672 bp

Locus ID: 375519

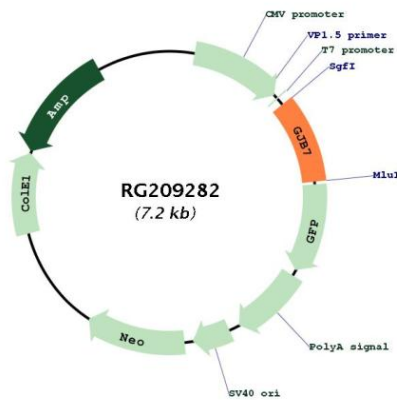
UniProt ID: [Q6PEY0](#)

Cytogenetics: 6q14.3-q15

Protein Families: Transmembrane

Gene Summary: Connexins, such as GJB7, are involved in the formation of gap junctions, intercellular conduits that directly connect the cytoplasm of contacting cells. Each gap junction channel is formed by docking of 2 hemichannels, each of which contains 6 connexin subunits (Sohl et al., 2003 [PubMed 12881038]).[supplied by OMIM, Mar 2008]

Product images:



Circular map for RG209282