

Product datasheet for **RR209313**

Gjb1 (NM_017251) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Gjb1 (NM_017251) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Gjb1
Synonyms: Cx32
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR209313 representing NM_017251
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGAAGTGGACAGGTCTATACACCTTGCTCAGTGGCGTGAATCGGCATTCTACAGCCATTGGCCGAGTAT
GGCTGTCCGTCATCTTTATCTTCAGAATCATGGTCTGGTGGCTGCAGAGAGCGTGTGGGGTATGA
GAAGTCTTCTTTTCATCTGTAACACCCTCCAGCCGGGCTGAACAGCGTCTGCTATGACCATTTTTCCCC
ATCTCCCATGTGCGCCTGTGGTCCCTGCAACTCATCTTGGTTTCCACCCAGCTCTCCTCGTGGCAATGC
ACGTGGCTCACCAACAACACATAGAAAAGAAAATGCTACGGCTTGAGGGGCACGGGGACCCCTTCACT
GGAAGAGGTAAAGAGGCACAAGGTGCACATCTCAGGGACACTGTGGTGGACCTATGTCATCAGTGTGGT
TTCCGGCTGCTGTTGAGGCTGTCTTATGTATGTCTTCTATCTGCTCTACCCGGGCTATGCCATGGTGC
GGCTGGTCAAGTGTGAGGCCTTCCCTGCCCAACACGGTGGACTGCTTCGTGTCCCGCCCACTGAGAA
AACCGTCTTCACTGTCTTTATGCTCGCCGCTCCGGCATCTGCATTATCCTCAACGTGGCGGAGGTGGT
TACCTCATCATCCGGGCTGTGCCGCGCTGCTCAGCGCCGCTCAATCCGCCCTCCCGCAAGGGCTCGG
GCTTCGGCCACCGCCTCTCACCTGAATACAAGCAGAATGAGATCAACAAGCTGCTGAGCGAGCAGGATGG
CTCTCTGAAAGACATACTGCGCCGAGTCTGGCACTGGGCGGGCTGGCTGAGAAGAGCGACCGATGC
TCAGCCTGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR209313 representing NM_017251
 Red=Cloning site Green=Tags(s)

MNWTGLYTLLSGVNRHSTAIGRVLSVIFIFRIMVLVAAESVWGDEKSSFICNTLQPGCNSVCYDHFPP
 ISHVRWLSLQLILVSTPALLVAMHVAHQHIEKKMLRLEGHDPLHLEEVKRHKVHISGTLWWTYVISVV
 FRLLFEAVFMYVFYLLYPGYAMVRLVKCEAFPCPNTVDCFVSRPTEKTVFTVFMLAASGICILNVAEVS
 YLIIRACARRAQRNSNPPSRKSGSGFHRLSPEYKQNEINKLLEQDGLKDILRRSPGTGAGLAEKSDRC
 SAC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

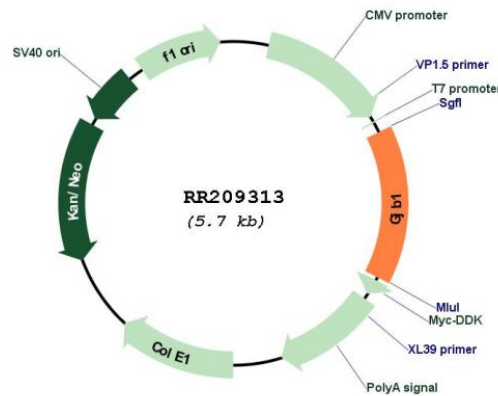
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_017251

ORF Size: 849 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:	<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_017251.2 , NP_058947.1
RefSeq Size:	1555 bp
RefSeq ORF:	852 bp
Locus ID:	29584
UniProt ID:	P08033
Cytogenetics:	Xq22
MW:	32 kDa
Gene Summary:	component of gap junctions, which connect the cytoplasm of adjacent cells; involved in intercellular transport of small hydrophilic molecules; facilitates cell-cell communication [RGD, Feb 2006]