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Product datasheet for MR203534

Gjb4 (NM_008127) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gjb4 (NM_008127) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gjb4
Synonyms:	Cnx30.3; Cx30.3; Gjb-4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR203534 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAACTGGGGATTTCTCCAGGGAATCCTGAGTGGTGTGAACAAGTACTCCACGGCACTGGGCCGCATCT
GGCTGTCTGTGGTCTTCATCTTCCGGGTGCTGGTGTATGTGGTGGCGGCAGAGGAGGTGTGGGACGACGA
TCAAAAGGATTTCATCTGCAATACCAAGCAGCCAGGCTGCCCCAACGTCTGCTATGATGAGTTCTTCCCC
GTGTCCCACGTGCGCCTCTGGGCCCTGCAGCTCATCCTGGTCACCTGTCCTTCCCTGTTAGTGGTCATGC
ATGTGGCCTATCGTGAAGAGCGAGAAAGGAAACATCGCCTCAAACATGGGCCCAATGCCCCAGCCCTGTA
CAGCAACCTGAGCAAGAAGAGGGGTGGCCTGTGGTGGACATACCTGCTGAGTCTCATCTTCAAGGCTGCT
GTGGACTCTGGCTTTCTCTATATCTTCCATTGCATTTACAAGGACTATGACATGCCCCGAGTGGTAGCTT
GCTCTGTGACTCCCTGCCCCCACACTGTGGACTGTTACATCGCCCGACCCACAGAGAAGAAGGTTTTCAC
CTACTTCATGGTAGTCACGGCAGCCATTTGTATTCTACTCAACCTCAGTGAGGTCGTCTACCTGGTGGGC
AAGAGATGCATGGAGGTCTTCCGTCCCCGGCGCCGGAAAGCTTCCAGGAGGCACCAACTGCCAGATACGT
GCCCACCGTATGTGATCTCCAAAGGAGGTCACCCTCAAGATGAGAGCGTGATCCTAACAAAGGCCGGGAT
GGCCACGGTGGATGCAGGTGTGTATCCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

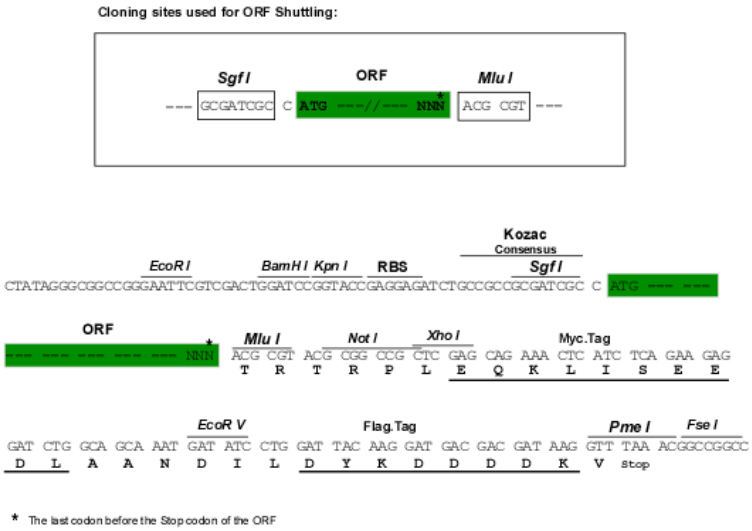
>MR203534 protein sequence
Red=Cloning site Green=Tags(s)

MNWGFLQGILSGVNKYSTALGRIWLSVVFIFRVLVYVVAAEEVWDDDQKDFICNTKQPGCPNVCYDEFFP
VSHVRLWALQLILVTCPSLLVVMHVAYREERERKHRLKHGPNAPALYSNLSKKRGGLWWTYLLSLIFKAA
VDSGFLYIFHCIYKDYDMPRVVACSVTPCPHTVDCYIARPTEKKVFTYFMVVTAAICILLNLSEVVYLVG
KRCMEVFRPRRRKASRRHQLPDTCPPYVISKGGHPQDESVILTKAGMATVDAGVYP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_008127

ORF Size: 801 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).

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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_008127.2

RefSeq Size: 1445 bp

RefSeq ORF: 801 bp

Locus ID: 14621

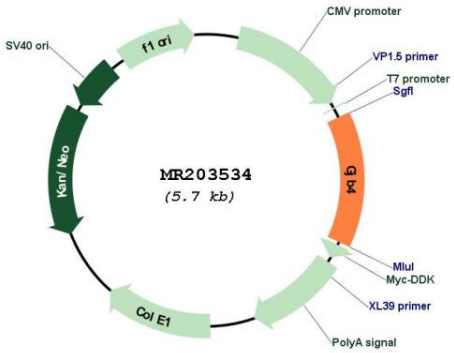
UniProt ID: Q02738

Cytogenetics: 4 61.51 cM

MW: 30.4 kDa

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 MR203534

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