

Product datasheet for RC202521

GJB5 (NM_005268) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GJB5 (NM_005268) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GJB5
Synonyms:	CX31.1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC202521 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGTGGAGTATCTTTGAGGGACTCCTGAGTGGGGTCAACAAGTACTCCACAGCCTTTGGGCGCATCT
GGCTGTCTCTGGTCTTCATCTTCCGCGTGTGGTGTACCTGGTGACGGCCGAGCGTGTGGAGTGATGA
CCACAAGGACTTCGACTGCAATACTCGCCAGCCGGCTGCTCAACGTCTGCTTTGATGAGTTCTCCCT
GTGTCCCATGTGCGCCTCTGGCCCTGCAGCTTATCCTGGTGACATGCCCTCACTGCTCGTGGTCAATG
ACGTGGCCTACCGGGAGTTTCAGGAGAAGAGGCCACCGAGAAGCCCATGGGGAGAAGAGTGGGCGCCTCTA
CCTGAACCCCGCAAGAAGCGGGGTGGGCTCTGGTGGACATATGTCTGCAGCCTAGTGTCAAGGCGAGC
GTGGACATCGCCTTTCTATGTGTTCCACTATTCTACCCCAAATATATCCTCCCTCCTGTGGTCAAGT
GCCACGCAGATCCATGTCCCAATATAGTGGACTGCTTCATCTCCAAGCCCTCAGAGAAGAACATTTTCAC
CCTCTTATGGTGGCCACAGCTGCCATCTGCATCCTGCTCAACCTCGTGGAGTCACTACCTGGTGGAGC
AAGAGATGCCACGAGTGCCTGGCAGCAAGGAAAGCTCAAGCCATGTGCACAGGTCACTACCCCCACGGTA
CCACCTCTTCTGCAACAAGACGACCTCCTTTCCGGGTGACCTCATCTTTCTGGGCTCAGACAGTCATCC
TCCTCTTACCAGACCGCCCGGAGACCATGTGAAGAAAACCATCTTG

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC202521 protein sequence
 Red=Cloning site Green=Tags(s)

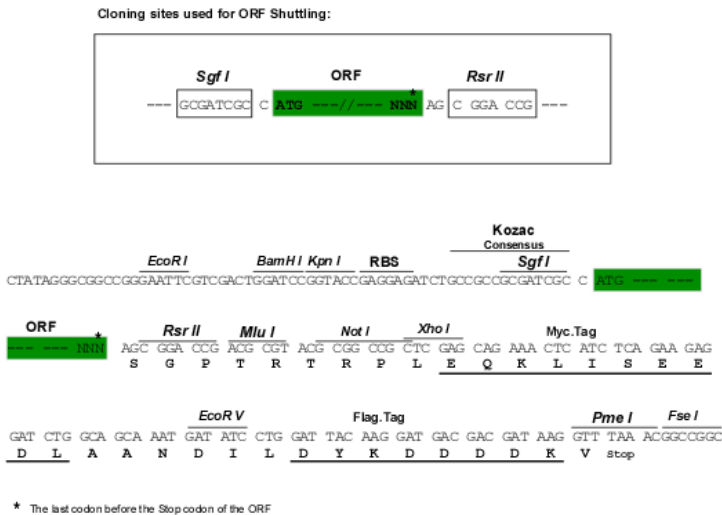
MNWSIFEGLLSGV NKYSTAFGR IWL SLVFI FRVLVYL VTAERVWSDDHKDFDCNTRQPGCSNVCFDEFFP
 VSHVRLWALQLILVTCPSLLVVMHVAYREVQEK RHREAHGENSGRLYLNPGKKRGLWWTYVCSLVFKAS
 VDI AFL YVFHSFYPKYILPPVVKCHADPCPNIVDCFIKSPSEKNIFTLFMVATAAICILLNLVELIYLVLS
 KR CHECLAARKAQAMCTGHHPHGTTSSCKQD DLLSGDLIFLGSDSHPLL PDRPRDHVKKTIL

SGP TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6614_a06.zip

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_005268

ORF Size: 819 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_005268.4](#)

RefSeq Size: 1376 bp

RefSeq ORF: 822 bp

Locus ID: 2709

UniProt ID: [O95377](#)

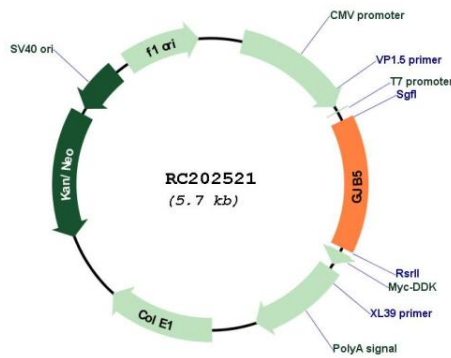
Cytogenetics: 1p34.3

Protein Families: Ion Channels: Other, Transmembrane

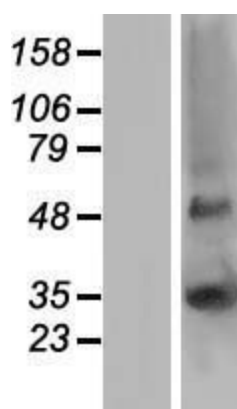
MW: 31.1 kDa

Gene Summary: This gene encodes a member of the beta-type (group I) connexin family. The encoded protein is a gap junction protein involved in intercellular communication related to epidermal differentiation and environmental sensing. This gene has been linked to non-small cell lung cancer. [provided by RefSeq, Nov 2012]

Product images:



Circular map for RC202521



Western blot validation of overexpression lysate (Cat# [LY417411]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202521 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).