OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC215842

GJB3 (NM_024009) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GJB3 (NM_024009) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GJB3
Synonyms:	CX31; DFNA2; DFNA2B; EKV; EKVP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC215842 representing NM_024009
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGACTGGAAGACACTCCAGGCCCTACTGAGCGGTGTGAACAAGTACTCCACAGCGTTCGGGCGCATCT
GGCTGTCCGTGGTGTTCGTCTTCCGGGTGCTGGTATACGTGGTGGCTGCAGAGCGCGTGTGGGGGGATGA
GCAGAAGGACTTTGACTGCAACACCAAGCAGCCCGGCTGCACCAACGTCTGCTACGACAACTACTTCCCC
ATCTCCAACATCCGCCTCTGGGCCCTGCAGCTCATCTTCGTCACATGCCCCTCGCTGCTGGTCATCCTGC
ACGTGGCCTACCGTGAGGAGCGGGAGCGCCGGCACCGCCAGAAACACGGGGACCAGTGCGCCAAGCTGTA
CGACAACGCAGGCAAGAAGCACGGAGGCCTGTGGTGGACCTACCTGTTCAGCCTCATCTTCAAGCTCATC
ATTGAGTTCCTCTTCCTCTACCTGCTGCACACTCTCTGGCATGGCTTCAATATGCCGCGCCTGGTGCAGT
GTGCCAACGTGGCCCCCTGCCCCAACATCGTGGACTGCTACATTGCCCGACCTACCGAGAAGAAAATCTT
CACCTACTTCATGGTGGGCGCCTCCGCCGTCTGCATCGTACTCACCATCTGTGAGCTCTGCTACCTCATC
TGCCACAGGGTCCTGCGAGGCCTGCACAAGGACAAGCCTCGAGGGGGTTGCAGCCCCTCGTCCTCCGCCA
GCCGAGCTTCCACCTGCCGCTGCCACCACAAGCTGGTGGAGGCTGGGGAGGTGGATCCAGACCCAGGCAA
TAACAAGCTGCAGGCTTCAGCACCCAACCTGACCCCCATC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC215842 representing NM_024009
Red=Cloning site Green=Tags(s)

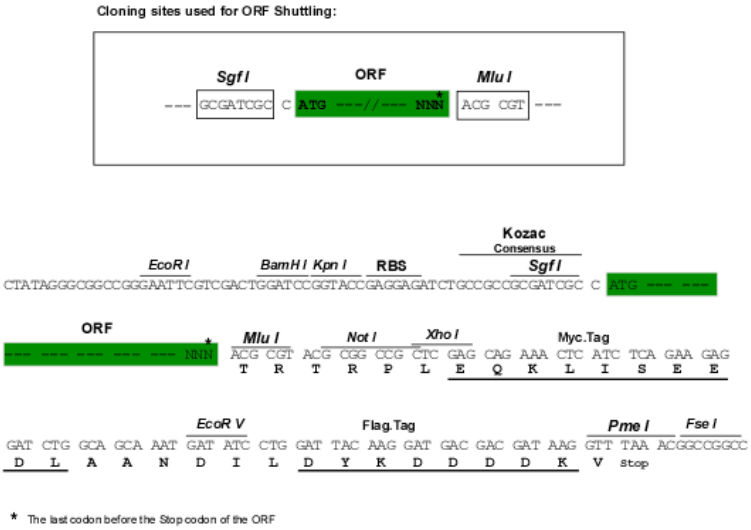
MDWKTLQALLSGVNKYSTAFGRIWLSVVFVFRVLVYVVAAERVWGDEQKDFDCNTKQPGCTNVCYDNYFP
ISNIRLWALQLIFVTCPSLLVILHVAYREERERRHRQKHGDQCAKLYDNAGKKHGGLWWTYLFSLIFKLI
IEFLFLYLLHTLWHGFNMPRLVQCANVAPCPNIVDCYIARPTEKKIFTYFMVGASAVCIVLTICELCYLI
CHRVLRGLHKDKPRGGCSPSSSASRASTCRCHHKLVEAGEVDPDPGNNKLQASAPNLTPI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6108_f05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_024009

ORF Size: 810 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_024009.3

RefSeq Size: 2220 bp

RefSeq ORF: 813 bp

Locus ID: 2707

UniProt ID: O75712

Cytogenetics: 1p34.3

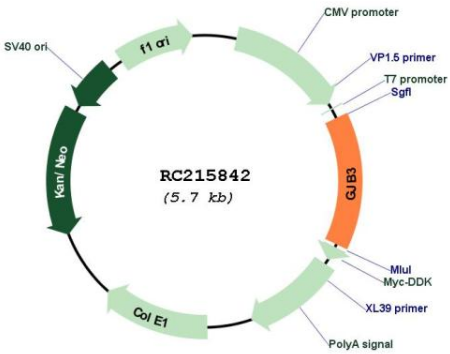
Domains: CNX

Protein Families: Druggable Genome, Ion Channels: Other, Transmembrane

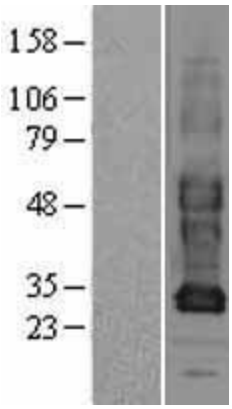
MW: 30.6 kDa

Gene Summary: This gene is a member of the connexin gene family. The encoded protein is a component of gap junctions, which are composed of arrays of intercellular channels that provide a route for the diffusion of low molecular weight materials from cell to cell. Mutations in this gene can cause non-syndromic deafness or erythrokeratodermia variabilis, a skin disorder. Alternative splicing results in multiple transcript variants encoding the same protein. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC215842



Western blot validation of overexpression lysate (Cat# [LY402970]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC215842 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).