

Product datasheet for **RC204405**

GJB3 (NM_001005752) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GJB3 (NM_001005752) 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:	>RC204405 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGACTGGAAGACTCCAGGCCCTACTGAGCGGTGTGAACAAGTACTCCACAGCGTTCGGGCGCATCT
GGCTGTCCGTGGTGTTCGTCTCCGGGTGCTGGTATACGTGGTGGCTGCAGAGCGCGTGTGGGGGATGA
GCAGAAGGACTTTGACTGCAACACCAAGCAGCCCGGCTGCACCAACGTCTGCTACGACAACTACTCCCC
ATCTCAAACATCCGCCTCTGGGCCCTGCAGCTCATCTTCGTACATGCCCTCGTGTGGTTCATCTGC
ACGTGGCCTACCGTGAGGAGCGGGAGCGCCGGCACCGCCAGAAACACGGGGACCAGTGCGCCAAGCTGTA
CGACAACGCAAGCAAGAAGCACGGAGGCCCTGTGGTGGACCTACCTGTTACGCCTCATCTCAAGCTCATC
ATTGAGTTCCTCTTCTCTACCTGCTGCACACTCTCTGGCATGGCTTCAATATGCCCGCCCTGGTGCAGT
GTGCCAACGTGGCCCCCTGCCCAACATCGTGGACTGCTACATTGCCCGACCTACCGAGAAGAAAATCTT
CACCTACTTATGGTGGGCGCCTCCGCCGTCTGCATCGTACTCACCATCTGTGAGCTCTGTACCTCATC
TGCCACAGGGTCTGCGAGGCCTGCACAAGGACAAGCCTCGAGGGGGTTGCAGCCCTCGTCTCCGCCA
GCCGAGCTTCCACCTGCCGCTGCCACCACAAGCTGGTGGAGGCTGGGGAGGTGGATCCAGACCCAGGCCAA
TAAAGCTGCAGGCTTCAGACCCAACCTGACCCCCATC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC204405 protein sequence
 Red=Cloning site Green=Tags(s)

MDWKTLQALLSGV NKYSTAFGR I WLSVVFVFRVLVYVVAAERVWGDEQKDFDCNTKQPGCTNVCYDNYFP
 ISNIRLWALQLIFVTCPSLLVILHVAYREERERRHRQKHGDQCAKLYDNAGKKHGLWWTYLFSLIFKLI
 IEFLFLYLLHTLWHGFNMPRLVQCANVAPCPNIVDCYIARPTKIFTYFMVGASAVCIVLTICELCYLI
 CHRVLRLGLHKDKPRGGCSPSSASRASTCRCHHKLVEAGEVDPDPGNNKLQASAPNLTP I

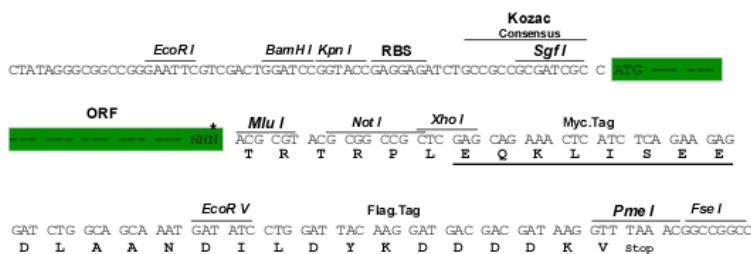
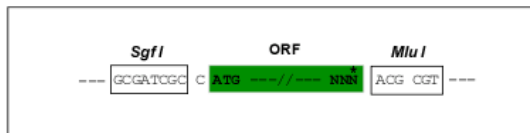
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6325_g04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001005752

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_001005752.2](#)

RefSeq Size: 1777 bp

RefSeq ORF: 813 bp

Locus ID: 2707

UniProt ID: [O75712](#)

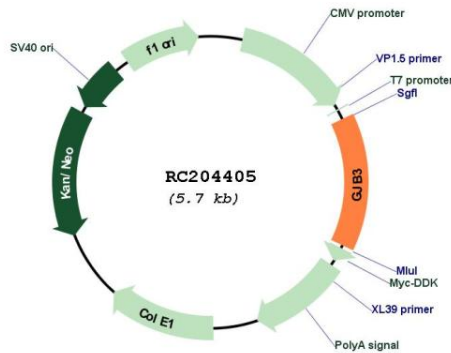
Cytogenetics: 1p34.3

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

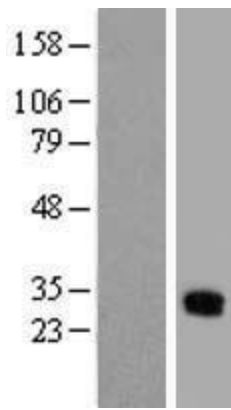
MW: 30.8 kDa

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 erythrokeratoderma variabilis, a skin disorder. Alternative splicing results in multiple transcript variants encoding the same protein. [provided by RefSeq, Jul 2008]

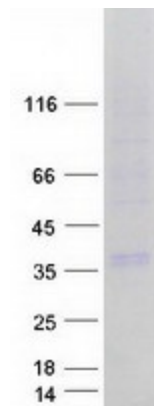
Product images:



Circular map for RC204405



Western blot validation of overexpression lysate (Cat# [LY423651]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204405 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified GJB3 protein (Cat# [TP304405]). The protein was produced from HEK293T cells transfected with GJB3 cDNA clone (Cat# RC204405) using MegaTran 2.0 (Cat# [TT210002]).