

Product datasheet for **RC204406**

GJB4 (NM_153212) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GJB4 (NM_153212) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GJB4
Synonyms:	CX30.3; EKV; EKVP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC204406 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGTGGGCATTTCTGCAGGGCCTGCTGAGTGGCGTGAACAAGTACTCCACAGTGCTGAGCCGCATCT
GGCTGTCTGTGGTGTTCATCTTTTCGTGTGCTGGTGTACGTGGTGGCAGCGGAGGAGGTGTGGACGATGA
GCAGAAGGACTTTGTCTGCAACACCAAGCAGCCCGGCTGCCCAACGTCTGCTATGACGAGTTCTCCCC
GTGTCCCACGTGCGCCTCTGGGCCCTACAGCTCATCCTGGTACGTGCCCTCACTGCTCGTGGTATGC
ACGTGGCCTACCGCGAGGAACGCGAGCGCAAGCACCACCTGAAACACGGGCCAATGCCCGTCCCTGTA
CGACAACCTGAGCAAGAAGCGGGGCGGACTGTGGTGGACGTAATTGCTGAGCCTCATCTTCAAGGCCGCC
GTGGATGCTGGCTTCTCTATATCTTCCACCGCCTCTACAAGGATTATGACATGCCCGCGTGGTGGCCT
GCTCCGTGGAGCCTTGCCCCACACTGTGGACTGTTACATCTCCCGGCCACGGAGAAGAAGGTCTTAC
CTACTTCATGGTGACCACAGCTGCCATCTGCATCCTGCTCAACCTCAGTGAAGTCTTCTACCTGGTGGGC
AAGAGGTGCATGGAGATCTTCGGCCCCAGGCACCGCGGCCTCGGTGCCGGAATGCCTACCCGATACGT
GCCACCATATGCCTCTCCAGGGAGGGCACCTGAGGATGGAACTCTGTCTAATGAAGGCTGGGTC
GGCCCCAGTGGATGCAGGTGGGTATCCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC204406 protein sequence
Red=Cloning site Green=Tags(s)

MNWAFLQGLLSGVNKYSTVL SRIWLSVVFIFRVLVYVVAEEVWDDEQKDFVCNTKQPGCPNVCYDEFFP
 VSHVRLWALQLILVTCPSLLVVMHVAYREERERKHHLKHGPNAPSLYDNL SKKRGLWWTYLLSLIFKAA
 VDAGFLYIFHRLYKDYDMPRVVACSVPCPHTVDCYISRPTTEKKVFTYFMVTTAAICILLNLSEVFYLVG
 KRCMEIFGPRHRRPRCRECLPDTCPYYVLSQGGHPEDGNSVLMKAGSAPVDAGGY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6325_h10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_153212

ORF Size: 798 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_153212.3](#)

RefSeq Size: 2840 bp

RefSeq ORF: 801 bp

Locus ID: 127534

UniProt ID: [Q9NTQ9](#)

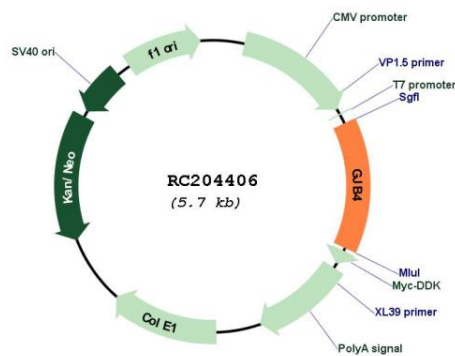
Cytogenetics: 1p34.3

Protein Families: Ion Channels: Other, Transmembrane

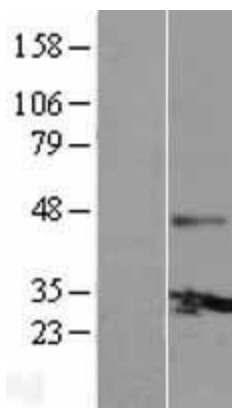
MW: 30.4 kDa

Gene Summary: This gene encodes a transmembrane connexin protein that is a component of gap junctions. Mutations in this gene have been associated with erythrokeratoderma variabilis, progressive symmetric erythrokeratoderma and hearing impairment. [provided by RefSeq, Dec 2009]

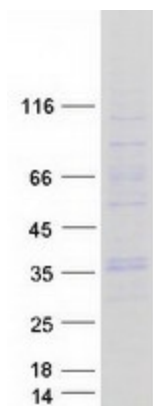
Product images:



Circular map for RC204406



Western blot validation of overexpression lysate (Cat# [LY407141]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204406 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified GJB4 protein (Cat# [TP304406]). The protein was produced from HEK293T cells transfected with GJB4 cDNA clone (Cat# RC204406) using MegaTran 2.0 (Cat# [TT210002]).