

## Product datasheet for **RG204406**

### **GJB4 (NM\_153212) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GJB4 (NM_153212) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GJB4
Synonyms:	CX30.3; EKV; EKVP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG204406 representing NM_153212 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAGTGGGCATTTCTGCAGGGCCTGCTGAGTGGCGTGAACAAGTACTCCACAGTGTGAGCCGCATCT  
GGCTGTCTGTGGTGTTCATCTTTTCGTGTGCTGGTGTACGTGGTGGCAGCGGAGGAGGTGTGGACGATGA  
GCAGAAGGACTTTGTCTGCAACACCAAGCAGCCCGGCTGCCCAACGTCTGCTATGACGAGTTCTCCCC  
GTGTCCCACGTGCGCCTCTGGGCCCTACAGCTCATCCTGGTACGTGCCCTCACTGCTCGTGGTATGC  
ACGTGGCCTACCGCGAGGAACCGGAGCGCAAGCACCACCTGAAACACGGGCCAATGCCCGTCCCTGTA  
CGACAACCTGAGCAAGAAGCGGGGCGGACTGTGGTGGACGACTTGTGAGCCTCATCTTCAAGGCCGCC  
GTGGATGTGGCTTCTCTATATCTTCCACCGCCTCTACAAGGATTATGACATGCCCGCGTGGTGGCCT  
GCTCCGTGGAGCCTTGCCCCACACTGTGGACTGTTACATCTCCCGGCCACGGAGAAGAAGGTCTTAC  
CTACTTCATGGTGACCACAGCTGCCATCTGCATCCTGCTCAACCTCAGTGAAGTCTTCTACCTGGTGGC  
AAGAGGTGCATGGAGATCTTCGGCCCCAGGCACCGCGGCTCGGTGCCGGAATGCCTACCCGATACGT  
GCCACCATATGCCTCTCCAGGGAGGGCACCTGAGGATGGAACTCTGTCTAATGAAGGCTGGGT  
GGCCCCAGTGGATGCAGGTGGTATCCA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG204406 representing NM\_153212  
Red=Cloning site Green=Tags(s)

MNWAFLQGLLSGVNKYSTVL SRIWLSVVFIFRVLVYVVAAEEVWDEQKDFVCNTKQPGCPNVCYDEFFP  
VSHVRLWALQLILVTCPSLLVVMHVAYREERERKHHLKHGPNAPSLYDNL SKKRGGLWWTYLLSLIFKAA  
VDAGFLYIFHRLYKDYDMPRVVACSVPCPHTVDCYISRPTTEKKVFTYFMVTTAAICILLNLSEVFYLVG  
KRCMEIFGPRHRRPRCRECLPDTCPYPVLSQGGHPEDGNSVLMKAGSAPVDAGGYP

TRTRPLE - GFP Tag - V

**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:** 1243 bp

**RefSeq ORF:** 801 bp

**Locus ID:** 127534

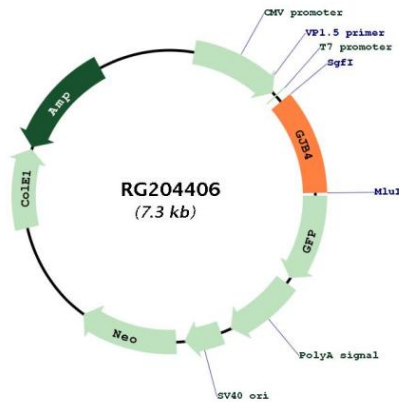
**UniProt ID:** [Q9NTQ9](#)

**Cytogenetics:** 1p34.3

**Protein Families:** Ion Channels: Other, Transmembrane

**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 RG204406