

Product datasheet for **RG229522**

Kir7.1 (KCNJ13) (NM_001172416) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Kir7.1 (KCNJ13) (NM_001172416) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: KCNJ13
Synonyms: KIR1.4; KIR7.1; LCA16; SVD
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG229522 representing NM_001172416
Red=Cloning site **Blue**=ORF **Green**=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACAGCAGTAATTGCAAAGTTATTGCTCCTCTCCTAAGTCAAAGATACCGGAGGATGGTCACCAAGG
ATGGCCACAGCACACTTCAAATGGATGGCGCTCAAAGAGGTCTTGCATATCTTCGAGATGCTTGGGGAAT
CCTAATGGACATGCGCTGGCGTTGGATGATGTTGGTCTTTCTGCTTCTTTGTTGTCCACTGGCTTGTC
TTTGCAGTGCTCTGGTCTTTGTGGCGAAGATTGCCCGCCAAAAAATCGAGCTTTTCAATTCGCTTT
AC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG229522 representing NM_001172416
Red=Cloning site **Green**=Tags(s)
MDSSNCKVIAPLLSQRYRRMVTKDGHSTLQMDGAQRGLAYLRDAWGILMDMRWRWMLVFSASFVHHWLV
FAVLWFCGEDCPAKKSSFFNSLY

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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| 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: | <ol style="list-style-type: none">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: | <u>NM_001172416.1</u> , <u>NP_001165887.1</u> |
| RefSeq Size: | 3373 bp |
| RefSeq ORF: | 285 bp |
| Locus ID: | 3769 |
| UniProt ID: | <u>O60928</u> |
| Cytogenetics: | 2q37.1 |
| Protein Families: | Druggable Genome, Ion Channels: Potassium, Transmembrane |
| Gene Summary: | This gene encodes a member of the inwardly rectifying potassium channel family of proteins. Members of this family form ion channel pores that allow potassium ions to pass into a cell. The encoded protein belongs to a subfamily of low signal channel conductance proteins that have a low dependence on potassium concentration. Mutations in this gene are associated with snowflake vitreoretinal degeneration. Alternate splicing results in multiple transcript variants.[provided by RefSeq, Feb 2010] |