

## Product datasheet for **RC229522**

### **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:** Myc-DDK  
**Symbol:** KCNJ13  
**Synonyms:** KIR1.4; KIR7.1; LCA16; SVD  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC229522 representing NM\_001172416  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

**ATGGACAGCAGTAATTGCAAAGTTATTGCTCCTCTCCTAAGTCAAAGATACCGGAGGATGGTCACCAAGG**  
**ATGGCCACAGCACACTTCAAATGGATGGCGCTCAAAGAGGTCTTGCATATCTTCGAGATGCTTGGGGAAT**  
**CCTAATGGACATGCGCTGGCGTTGGATGATGTTGGTCTTTCTGCTTCTTTGTTGTCCACTGGCTTGTC**  
**TTTGCACTGCTCTGGTGCTTTTGTGGCGAAGATTGCCCGCCAAAAATCGAGCTTTTTCAATTCGCTTT**  
**AC**

**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT**  
**ACAAGGATGACGACGATAAGGTTTAA**

**Protein Sequence:** >RC229522 representing NM\_001172416  
**Red=Cloning site Green=Tags(s)**  
  
MSSNCKVIAPLLSQRYRRMVTKDGHSTLQMDGAQRGLAYLRDAWGILMDMRWRWMLVFSASFVHWLV  
FAVLWFCGEDCPAKKSSFFNSLY  
  
**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Restriction Sites:** SgfI-MluI

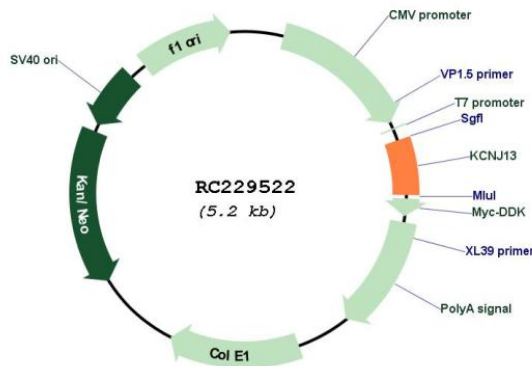


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Cloning Scheme:



Plasmid Map:



ACCN:

NM\_001172416

ORF Size:

282 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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001172416.1</a></u> , <u><a href="#">NP_001165887.1</a></u>
<b>RefSeq ORF:</b>	285 bp
<b>Locus ID:</b>	3769
<b>UniProt ID:</b>	<u><a href="#">O60928</a></u>
<b>Cytogenetics:</b>	2q37.1
<b>Protein Families:</b>	Druggable Genome, Ion Channels: Potassium, Transmembrane
<b>MW:</b>	11.4 kDa
<b>Gene Summary:</b>	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]