

Product datasheet for **RG229820**

Kir7.1 (KCNJ13) (NM_001172417) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kir7.1 (KCNJ13) (NM_001172417) 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:	>RG229820 representing NM_001172417 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAATGGTGATCTGGAAGTACATGATGCCCCACCTGAAAACCACACTATCTGTGTCAAGTATATCA
CCAGTTTCACAGCTGCATTCTCCTTCTCCCTGGAGACACAACCTACAATTGGTTATGGTACCATGTTCCC
CAGTGGTGACTGTCCAAGTGAATCGCCTTACTTGCCATACAAATGCTCCTAGGCCTCATGCTAGAGGCT
TTATCACAGGTGCTTTTGTGGCAAGATTGCCCGCCAAAAATCGAGCTTTTCAATTCGCTTTACTG
ACACAGCAGTAGTAGCTCACATGGATGGCAAACCTAATCTTATCTTCCAAGTGGCCAACACCCGACCTAG
CCCTCTAACCAAGTGTCCGGTCTCAGCTGACTCTATCAGGAAAGAGAAAATGGCAAACCTACCAGACC
AGTGTGGATTTCCACCTTGATGGCATCAGTTCTGACGAATGTCCATTCTTCATCTTTCCACTAACGTA
ATCACTCCATTACACCATCAAGTCTCTGGCTACTCTGCTCCAGCATGAAAATCCTTCTCACTTTGAATT
AGTTGTATTCTTTTCAGCAATGCAGGAGGGCACTGGAGAAATATGCCAAAGGAGGACATCTACCTACCG
TCTGAAATCATGTTACATCACTGTTTTGCATCTCTGTTGACCCGAGGTTCCAAAGGTGAATCAAAATCA
AGATGGAGAATTTTGACAAGACTGTCCCTGAATTTCCAACCTCTGTTTCTAAAAGCCCAACAGGAC
TGACCTGGATATCCACATCAATGGACAAAGCATTGACAATTTTCAGATCTCTGAAACAGGACTGACAGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG229820 representing NM_001172417
 Red=Cloning site Green=Tags(s)

MNGDLELDHDAPPENHTICVKYITSFTAAFSFSLETQLTIGYGTMFPSGDCPSAIALLAIQMLLGLMLEA
 FITGAFVAKIARPKNRAF SIRFTDTAVVAHMDGKPNLIFQVANTRPSPLTSVRVSAVLYQERENGLYQT
 SVDFHLDGISSDECPFFIFPLTYHISITPSSPLATLLQHENPSHFELVFLSAMQEGTGEICQRRTSYLP
 SEIMLHHCFAALLTRGSKGEYQIKMENFDKTVPEFPTPLVSKSPNRTDLDIHINGQSIDNFQISETGLTE

TRTRPLE - GFP Tag - V

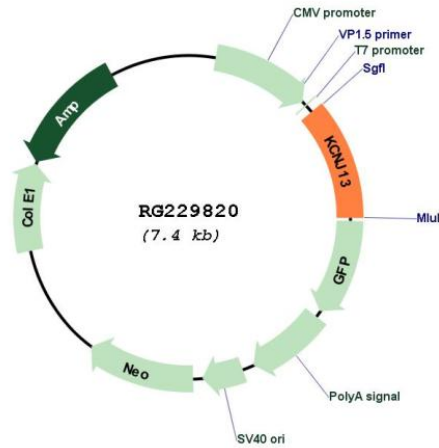
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001172417

ORF Size: 840 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:	<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:	NM_001172417.1 , NP_001165888.1
RefSeq Size:	3376 bp
RefSeq ORF:	843 bp
Locus ID:	3769
UniProt ID:	O60928
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]