

Product datasheet for **SC122146**

KIR5.1 (KCNJ16) (NM_170742) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KIR5.1 (KCNJ16) (NM_170742) Human Untagged Clone
Tag:	Tag Free
Symbol:	KCNJ16
Synonyms:	BIR9; KIR5.1
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_170742, the custom clone sequence may differ by one or more nucleotides

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ATGAGCTATTACGGCAGCAGCTATCATATTATCAATGCGGACGCAAATACCCAGGCTACCCGCCAGAGC
ACATTATAGCTGAGAAGAGAAGACAAGAAGACGATTACTTCACAAAGATGGCAGCTGTAATGTCTACTT
CAAGCACATTTTTGGAGAATGGGAAGCTATGTGGTTGACATCTCACCCTCTGTGGACCAAGTGG
CGCCATATGTTTGTGATATTTTCTTATCTTATATTCTCTCGTGGTTGATATTTGGCTCTGTCTTTTGGC
TCATAGCCTTTCATCATGGCGATCTATTAATGATCCAGACATCACACCTGTGTTGACAACGTCCATTC
TTTCACAGGGGCCTTTTTGTTCTCCCTAGAGACCCAAACCACCATAGGATATGGTTATCGCTGTGTTACT
GAAGAATGTTCTGTGGCCGTGCTCATGGTGATCCTCCAGTCCATCTTAAGTTGCATCATAAATACCTTTA
TCATTGGAGCTGCCTTGGCCAAAATGGCAACTGCTCGAAAGAGAGCCCAAACCATTCGTTTCAGCTACTT
TGCACTTATAGGTATGAGAGATGGGAAGCTTTCGCTCATGTGGCGCATTGGTGATTTTCGGCCAAACCAC
GTGGTAGAAGGAACAGTTAGAGCCCAACTTCTCCGCTATACAGAAGACAGTGAAGGGAGGATGACGATGG
CATTTAAAGACCTCAAATTAGTCAACGACCAAAATCATCTGGTCAACCCCGGTAACATTTGATTTTGGTG
TGACCATGAGAGCCCTCTGTATGCCCTTGACCGCAAAGCAGTAGCCAAAGATAAATTTGAGATTTTGGTG
ACATTTATCTATACTGGTGATTCCACTGGAACATCTACCAATCTAGAAGCTCCTATGTTCCCGAGAAA
TTCTCTGGGGCCATAGGTTTAAATGATGTCTTGAAGTTAAGAGGAAGTATTACAAAGTGAAGTGAAGTACA
GTTTGAAGGAAGTGTGGAAGTATATGCCCCCTTTTGCAGTGCCAAGCAATTGGACTGGAAAAGACCAGCAG
CTCCACATAGAAAAAGCACCACCAGTTCGAGAATCCTGCACGTCGGACACCAAGGCGAGACGAAGGTCAT
TTAGTGCAAGTTGCCATTGTCAGCAGCTGTGAAAACCTGAGGAGACCACCACTTCCGCCACACATGAATA
TAGGGAAACACCTTATCAGAAAGCTCTCCTGACTTTAAACAGAATCTCTGTAGAATCCCAAATGTAG
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_170742 unedited NGGTCCAGTTCTAATATTGTATACGACTCATATAGGCCGGCCGATAAATTTCGTATAGCAT ACATTATACGAAGTTATGGATCAGGCCAAATCGGCCGAGCTCGAATTCGTGAGAGCGGG AGAACTCAGTGGCCTTTGTCTGTGGTGAATGTATCCGAAAGGCCAAAGAAGAGAGATT CTCTTGTGGGTTTCTCATCTCCATGGCGGTAGGTGCTGACAGCTTCAAGGGTATAAC AGGCCAAGAGAAAAGGCCCTGAGATGCTCAGCTACGGTGTCTTACAAGATGAAAAGG ACATGGGGTTCAGATCTGCACTTCATCATCTTTCACTAAGACATCCACATTCCACCCTGG GCCTTGCCCGTCTGGTGAGCCCAATCTCTGCTGGTCAGTCACGCAGTTGAGGTCAGGGAA GGAGTAACTCAAGATGATTTTGATGTTGCAAGTTTAAATTTCACTTTGACTTGAGCTGGG AAATCCTTTGGCCTATTATACCATGGATGCTAAAAATGGTTCTAACTGAAAACCCAAACC AAGAAATAGCAACAAGTCTAGAATTTCTACTACTACAAAACCTCACCTGGATCCCTAAGGG CACAGCAAAGAATGAGCTATTACGGCAGCAGCTATCATATTATCAATGCGGACGCAAAAT ACCCAGGCTACCCGCCAGAGCACATTATAGCTGAGAAGAGAAGAGCAAGAAGACGATTAC TTCACAAAGATGGCAGCTGTAATGTCTACTTCAAGCACATTTTTGGAGATGGNGAAGCT ATGTTGGTTGACATCTTACCACCTTTGTGGACACCAAGTGGNCGCCATATGTNTGNGAT ATTTTCTTTATCTATATTCTCTCGTGGNTGAATTTGGCTCTGTCTTTGCTCATACCTTT ATC
Restriction Sites:	Please inquire
ACCN:	NM_170742
Insert Size:	4000 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_170742.1 , NP_733938.1
RefSeq Size:	4025 bp
RefSeq ORF:	1257 bp
Locus ID:	3773
UniProt ID:	Q9NPI9
Cytogenetics:	17q24.3
Protein Families:	Druggable Genome, Ion Channels: Potassium, Transmembrane

Gene Summary:

Potassium channels are present in most mammalian cells, where they participate in a wide range of physiologic responses. The protein encoded by this gene is an integral membrane protein and inward-rectifier type potassium channel. The encoded protein, which tends to allow potassium to flow into rather than out of a cell, can form heterodimers with two other inward-rectifier type potassium channels. It may function in fluid and pH balance regulation. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Apr 2014]

Transcript Variant: This variant (3) differs in the 5' UTR compared to variant 1. Variants 1, 2, 3, 5 and 6 all encode the same isoform (a).