

Product datasheet for SC118712

KCNJ15 (NM_002243) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCNJ15 (NM_002243) Human Untagged Clone
Tag:	Tag Free
Symbol:	KCNJ15
Synonyms:	IRKK; KIR1.3; KIR4.2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118712 sequence for NM_002243 edited (data generated by NextGen Sequencing)

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ATGGATGCCATTACATCGGCATGTCCAGCACCCCTGGTGAAGCACACTGCTGGGGCT
GGGCTCAAGGCCAACAGACCCCGTCATGTCCAAGAGTGGGCACAGCAACGTGAGAATT
GACAAAGTGGATGGCATATACCTACTCTACCTGCAAGACCTGTGGACCACAGTTATCGAC
ATGAAGTGGAGATACAACTCACCTGTTGCTGCCACTTTTGTGATGACCTGGTTCCTT
TTTGGAGTCATCTACTATGCCATCGCGTTTATTCATGGGGACTTAGAACCCGATGAGCCC
ATTTCAAATCATACCCCTGCATCATGAAAGTGGACTCTCTCACTGGGGCGTTTCTCTTT
TCCCTGGAATCCCAGACAACCATGGCTATGGAGTCCGTTCCATCACAGAGGAATGCCT
CATGCCATCTTCTGTTGGTTGCTCAGTTGGTCATCACGACCTTGATTGAGATCTTCATC
ACCGGAACCTTCTGGCCAAAATCGCCAGACCCAAAAGCGGGCTGAGACCATCAAGTTC
AGCCACTGTGCAGTCATACCAAGCAGAATGGGAAGCTGTGCTTGGTGATTCAGGTAGCC
AATATGAGGAAGAGCCTCTTGATTGAGTCCAGCTCTCTGGCAAGCTCCTGCAGACCCAC
GTCACCAAGGAGGGGGAGCGGATTCTCCTCAACCAAGCCACTGTCAAATCCACGTGGAC
TCCTCCTCTGAGAGCCCCCTTCTCATTCTGCCATGACATTCTACCATGTGCTGGATGAG
ACGAGCCCCCTGAGAGACCTCACACCCAAAACCTAAAGGAGAAGGAGTTTGAGCTTGTG
GTCCTCCTCAATGCCACTGTGGAATCCACCAGCGCTGTCTGCCAGAGCCGAACATCTTAT
ATCCCAGAGGAAATCTACTGGGGTTTTGAGTTTGTGCCTGTGGTATCTCTCTCAAAAAT
GGAAAATATGTGGCTGATTTTCAGTCAGTTTGAACAGATTGCGAAAAGCCAGATTGCACA
TTTTACTGTGCAGATTCTGAGAAAACAGCAACTCGAGGAGAAGTACAGGCAGGAGGATCAG
AGGGAAAAGAGAACTGAGGACACTTTTATTACAACAGAGCAATGTCTGA

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Clone variation with respect to NM_002243.3
293 g=>a



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_002243 unedited AAAGCTTCTTACCCCGCCCGTTGNACGCAAATGGGCGGTAGGCGTGTACGGTGGGAAG GTCTATATAAGCAGAGCTCGTTTGTGAAACCGTCAGAATTTTGTAAACGACTACTATA GGGCGGCCGCAATTTCGGCACCAGATCTTTCCAAGGCAACCTGTCTGGACTGAGCATT CTCTGACTTGACATAACTTCCCATCCAGCCAGGAGTCTGCACTTTCAGTCTTGCAGGC AGTAGCAGAATCCCATGGTAGCCAGGTGGGTGAAGGGGAGCGAGGACGTTCTACCTGCCT TGAAGAAGACACCTGACCTGCGGAGTGAGTGACCAGTGTTCAGAGCCTGGCAATGGAT GCCATTACATCGGCATGTCCAGCACCCCTGGTGAAGCACACTGCTGGGGCTGGGCTC AAGGCCAACAGACCCCGTCATGTCCAAGAGTGGGCACAGCAACGTGAGAATTGACAAA GTGGATGGCATATACCTACTCTACCTGCAAGACCTGTGGACCACAGTTATCGACATGAAG TGGAGATACAACTACCCTGTTTCGCTGCCACTTTGTGATGACCTGGTTCCTTTTGGGA GTCATCTACTATGCCATCGCGTTTATTTCATGGGGACTTAGAACCCGATGAGCCCATTTCA TATCATACCCCTGCATCATGAAAGTGGACTCTCTCACTGGGGCGTTTCTTTTTCCCTG GAATCCCAGACAACCATTGGCTATGGAGTCCGTTCCATCACAGAAGAATGCCTCATGCC ATCTTCCTGTTAGTTGCTCAGTTGGTTCATCACGACCTTGATTGAGATCTTCATCACC ACCTTCCTGGCCAAAATCGCCAGACCCAAAAGCGGGCTGAGACCATCAGTTCAGCACTG TGCACTCTACCAGCAAATGGGAGCTTGCTGTGA
Restriction Sites:	NotI-NotI
ACCN:	NM_002243
Insert Size:	3000 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_002243.3 , NP_002234.2
RefSeq Size:	2867 bp
RefSeq ORF:	1128 bp
Locus ID:	3772
UniProt ID:	Q99712
Cytogenetics:	21q22.13-q22.2
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 has a greater tendency to allow potassium to flow into a cell rather than out of a cell. Eight transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Feb 2013]

Transcript Variant: This variant (2) uses an alternate splice junction and contains an additional exon in the 5' UTR compared to variant 1. All eight variants encode the same protein.