

Product datasheet for **SC321488**

Kir6.2 (KCNJ11) (NM_000525) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kir6.2 (KCNJ11) (NM_000525) Human Untagged Clone
Tag:	Tag Free
Symbol:	Kir6.2
Synonyms:	BIR; HHF2; IKATP; KIR6.2; MODY13; PHHI; PNDM2; TNDM3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_000525.3
 GGCAGGGTTGGGGCTCCCTAGGCGCCAGGCAGGTGGGCTCAAGGGTGAGGCTGTTTTT
 TGTGTTTTTTTTGTTTTGAGACGGAGTCTCGCTCTGTGCGCCAGGCTGGAGTGCAAGT
 GCGTGATCTTGGCTCACTGCAACCTCCGCCTCTCGGGTCAAGCGATTCTCCTGCCTCAG
 CTTCTGAGTAGCTGGGATTACAGGTGCGCACCACCATGCCCGGTAACCTTTGTATTTT
 TAGTAGAGATGGGTTTACCATGTTGGTCAGGCTGGTCTGAACTCCTGACCTAGTGAT
 CTGCCCTCCTCAGCCTCCAACGTACTGGGATTACAGGCGTGAGCCACCAGCCCGGCT
 GAGGCTGGTATTAAGAAGTGAAGTGGGACCCAGGTGGAGGTAAGGAAGAGTCTGGTGGG
 AGTTATCTCAGAAGTGAGGCCAGCACAGGCTGAGTGACAGCCCAAGGTGAGAAGGTGCC
 ACCGAGAGGACTCTGCAGTGAGGCCCTAGGCCACGTCCGAGGGGTGCCTCCGATGGGGGA
 AGCCCTCCCTGGGGTCAACGGAGCCATGCTGTCCCGCAAGGGCATCATCCCGAGGAA
 TACGTGCTGACACGCCTGGCAGAGGACCCTGCCGAGCCAGGTACCGTCCCGCCAGCGG
 AGGGCCCGCTTTGTGTCCAAGAAAGGCAACTGCAACGTGGCCACAAGAACATCCGGGAG
 CAGGGCCGCTTCTGCAGGACGTGTTACCACGCTGGTGGACCTCAAGTGCCACACACA
 TTGCTCATCTTACCATGTCCTTCTGTGACGCTGGTGTCTTCCCATGGCCTGGTGG
 CTATCGCCTTCGCCACGGTGACTGGCCCCAGCGAGGGCACTGCTGAGCCCTGTGTC
 ACCAGCATCCACTCCTTCTCGTCTGCCTTCTTTTCTCCATTGAGGTCCAAGTACTATT
 GGCTTTGGGGGGCGCATGGTGACTGAGGAGTGCCCACTGGCCATCCTGATCCTCATCGTG
 CAGAACATCGTGGGGTCAATGATCAACGCCATCATGCTTGGTGCATCTTATGAAGACT
 GCCCAAGCCACCGCAGGGCTGAGACCTCATCTTCAAGCATGCGGTGATCGCCCTG
 CGCCACGGCCGCTCTGCTTATGCTACGTGTGGTGACTCCGCAAGAGCATGATCATC
 AGCGCCACCATCCACATGCAGGTGGTACGCAAGACCACCGCCCGAGGGCGAGGTGGTG
 CCCCTCCACAGGTGGACATCCCATGGAGAACGGCGTGGTGGCAACAGCATCTTCTGT
 GTGGCCCGCTGATCATCTACCATGTCATTGATGCCAACAGCCCACTCTACGACCTGGCA
 CCCAGCGACCTGCACCACCAGGACCTCGAGATCATCGTCATCTGGAAGGCGTGGTG
 GAAACCACGGGCATACCACCCAGGCCCGCACCTCCTACCTGGCCGATGAGATCCTGTGG
 GGCCAGCGCTTTGTGCCATTGTAGCTGAGGAGGACGGACGTTACTCTGTGGACTACTCC
 AAGTTTGGCAACACCATCAAAGTGCCACACCACTCTGCACGGCCCGCCAGCTTGTAGG
 GACCACAGCCTACTGGAAGCTCTGACCCTCGCCTCAGCCCGGGGCCCTGCGCAAGCGC
 AGCGTGCCCATGGCCAAGGCCAAGCCAAAGTTCAGCATCTTCCAGATTCCCTGCTCTGA
 GCCATGGTCTCTCGGGCCCCCACACGCGTGTGTACACACGGACCATGTGGTATGTAGCC
 CAGCCAGGGCCTGGTGTGAGGCTGGGCCAGCCTCAGCTCAGCCTCCCCCTGCTGCTCATC
 CAGGGTGTACAAGGCACTTGTCACTATGCTATTTCTGGCCTCAGCAGGAACCTGTACTG
 GGTATTTTTGTCCCTGCTCCTCCCAACCAATTTAGGACTGGCTCACCCCTCTCCCCCG
 CCCAAGGCTGCAGAGGCTGTGGGAGGTAAGTGGCCCTAGAGCTGTGCGTCCAGCCAGTCC
 TGGGTCCCACGATTGACCAGCCACACTCTGGCCCGTGGCTGGGGAAGAACAATCCCCG
 AGGGCTGCTGCTTTGCGTCTGTGGCTCCAAGAAGTGCCTGTGGTCAAGCCCGAGCTCTAC
 TTGGTCCCTGAAAAGCACCCGGCTAAGGGCTGGCCCTGGCCAGCAGGGAGGGCAGTTGA
 TGAGAGAGGGTGTCCCCTGGAGGGTGGTGTGCTGTGGAGCCTACACCGCAGGGACAGC
 CTGGGGCTGACAGGGCTCCCTCCGAGGGCCAGTTTCAGGTCTGGAAGGGGAGGAAGCAG
 GGAAGGTGACCTGAGGAGGCTCGGCTTTGTAGAGCCCCGCTCAGGCACAGGGAGGAGGA
 GATGCCAGGGCTCCTGCCTTTTGCACATCGGCCTCGTGAGTGAGGGCTCTGTGGGCTG
 GGGCTGCTGCCCTGCCTACCTCCTGCCTGTCCCAGAGGCTGAGGAGAGGGGGTACTGT
 GCCCACCACACATGATTAGGCCTCAGACCCAACCTGGTCTGGCTCCACAACAGTGGCT
 GCCACTCACTTTGTCCAGAAGGTGGCTTGGGGTGGATATCTTTGGGTGCTGAAAAGG
 TGTGGAAAGTTCAGGATGGTGGGAGGGACTGAGGTCCCTGAGGTGAAGAGGCCCTTGGT
 CCTGACGGGTTTACCCGTGCTGGACCCTGGAGCAGTGTGTGTAACCTGCCTAGAA
 CTCTGCCTTCTCCGTTGTCAATAAAGCCTCCCCCTCATGAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_000525

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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_000525.3 , NP_000516.3
RefSeq Size:	3418 bp
RefSeq ORF:	1173 bp
Locus ID:	3767
Cytogenetics:	11p15.1
Protein Families:	Druggable Genome, Ion Channels: Potassium, Transmembrane
Protein Pathways:	Type II diabetes mellitus
Gene Summary:	<p>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 has a greater tendency to allow potassium to flow into a cell rather than out of a cell, is controlled by G-proteins and is found associated with the sulfonylurea receptor SUR. Mutations in this gene are a cause of familial persistent hyperinsulinemic hypoglycemia of infancy (PHHI), an autosomal recessive disorder characterized by unregulated insulin secretion. Defects in this gene may also contribute to autosomal dominant non-insulin-dependent diabetes mellitus type II (NIDDM), transient neonatal diabetes mellitus type 3 (TNDM3), and permanent neonatal diabetes mellitus (PNDM). Multiple alternatively spliced transcript variants that encode different protein isoforms have been described for this gene. [provided by RefSeq, Oct 2009]</p> <p>Transcript Variant: This variant (1) encodes the longer protein (isoform 1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The extent of this transcript is supported by transcript alignments.</p>