

Product datasheet for MC211935

Kcnip2 (NM_145704) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnip2 (NM_145704) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Kcnip2
Synonyms:	KChI; KChIP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC211935 representing NM_145704 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**

ATGCGGGGCCAAGGCCGAAAGGAGAGTTTGTCCGAATCCCGAGATTTGGACGGCTCCTATGACCAGCTTACGGACAGCGTGGAGGATGAGTTTGAACATCCACGGTGTGCCACCGGCCTGAGGGTCTGGAACAACCTCCAGGAACAAACCAAGTTCACACGCAGAGAGTTGCAGGTCCTGTACAGAGGCTCAAGAACGAATGTCCAGCGGAATTGTCAACGAGGAGAACTCAAGCAAATTTATTCTCAGTCTTTCCCAAGGAGACTCCAGCAACTACGCTACTTTTCTTTCAATGCCTTTGACACCAACCATGATGGCTCTGTCAGTTTGGAGACTTTGTGGCTGGTTTGTCAGTATTCTTCGGGAACCATAGATGATAGACTGAACTGGCTTTCAACTATATGACCTCAACAAGGATGGCTGTATCACGAAGGAGGAAATGCTCGACATCATGAAGTCCATCTATGACATGATGGGCAAGTACACCTACCCTGCCCTCCGGGAGGAGGCCCGAGGGAACACGTGGAGAGCTTCTCCAGAAGATGGACAGAAACAAGGACGGCGTGGTGACCATTGAGGAATTCATTGAGTCTTGTCAACAGGACGAGAACATCATGAGGTCCATGCAACTCTTTGATAATGTCATCTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_145704
Insert Size:	663 bp



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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_145704.2 , NP_663750.1
RefSeq Size:	2264 bp
RefSeq ORF:	663 bp
Locus ID:	80906
UniProt ID:	Q9J169
Cytogenetics:	19 38.75 cM
Gene Summary:	<p>This gene encodes a member of the voltage-gated potassium channel-interacting protein (KCNIP) family. KCNIP family members are small calcium binding proteins that commonly exhibit unique variation at their N-termini, and which modulate A-type potassium channels. This gene is predominantly expressed in the adult heart, and to a lesser extent in the brain. Disruption of this gene is associated with susceptibility to cardiac arrhythmias and lack of transient outward potassium current in ventricular myocytes, and downregulated expression is associated with cardiac hypertrophy. The encoded protein has also been implicated as a repressor of immune response. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2013]</p> <p>Transcript Variant: This variant (c) lacks two consecutive internal exons in the coding region but maintains the reading frame, compared to variant a. The encoded isoform (c, also known as KCHIP2S) is shorter, compared to isoform a.</p>