

Product datasheet for MC211933

Kcnp2 (NM_030716) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnp2 (NM_030716) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Kcnp2
Synonyms:	KChI; KChIP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Restriction Sites:	Sgfl-MluI
ACCN:	NM_030716
Insert Size:	759 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_030716.3</u> , <u>NP_109641.2</u>


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RefSeq Size: 2360 bp

RefSeq ORF: 759 bp

Locus ID: 80906

UniProt ID: [Q9J169](#)

Cytogenetics: 19 38.75 cM

Gene Summary: 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]

Transcript Variant: This variant (b) lacks an internal exon in the coding region but maintains the reading frame, compared to variant a. The encoded isoform (b) is shorter, compared to isoform a.