

## Product datasheet for **MR228616**

### **Kcnip2 (NM\_001276358) Mouse Tagged ORF Clone**

#### Product data:

Product Type: Expression Plasmids  
Product Name: Kcnip2 (NM\_001276358) Mouse Tagged ORF Clone  
Tag: Myc-DDK  
Symbol: Kcnip2  
Synonyms: KChI; KChIP2  
Vector: pCMV6-Entry (PS100001)  
E. coli Selection: Kanamycin (25 ug/mL)  
Cell Selection: Neomycin  
ORF Nucleotide Sequence: >MR228616 representing NM\_001276358  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGAACCGCTGCCCTCGCAGGTGCCGGAGCCCGTTGGGGCAGGCAGCTCGGTCTCTCTACCAGTTGGTGA  
CTGGGTCAGTGTCCGACAGCAGCGTGGAGGATGAGTTTGAACATCCACGGTGTGCCACCGGCCTGAGGG  
TCTGGAACAACCTCAGGAACAAACCAAGTTCACACGCAGAGAGTTGCAGGTCCTGTACAGAGGCTTCAAG  
AACGAATGTCCCAGCGGAATTGTCAACGAGGAGAACTTCAAGCAAATTTATTCTCAGTCTTTCCCAAG  
GAGACTCCAGCAACTACGCTACTTTTCTCTTCAATGCCTTTGACACCAACCATGATGGCTCTGTCAGTTT  
TGAGGACTTTGTGGCTGGTTTGTCAAGTATCTTCGGGGAACCATAGATGATAGACTGAAGTGGCTTTT  
AACTTATATGACCTCAACAAGGATGGCTGTATCACGAAGGAGGAAATGCTCGACATCATGAAGTCCATCT  
ATGACATGATGGGCAAGTACACCTACCCTGCCCTCCGGGAGGAGGCCCGAGGGAACACGTGGAGAGCTT  
CTTCCAGAAGATGGACAGAAACAAGGACGGCGTGGTGACCATTGAGGAATTCATTGAGTCTTGTCAACAG  
GACGAGAACATCATGAGGTCCATGCAACTCTTTGATAATGTCATC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR228616 representing NM\_001276358  
 Red=Cloning site Green=Tags(s)

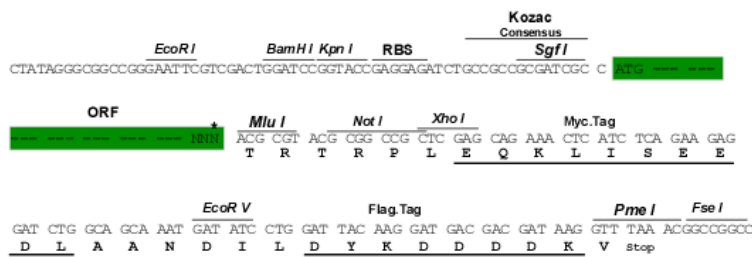
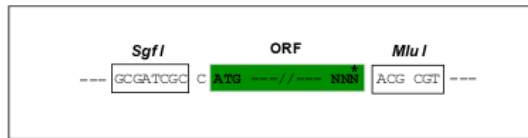
MNRCPRRCRSPLGQAARSLYQLVTGSLSPDSVEDEFELSTVCHRPEGLEQLQEQTKFTRRELQVLYRGFK  
 NECPSGIVNEENFKQIYSQFFPQGDSSNYATFLFNAFDTNHDGSVSFEDFVAGLSVILRGTIDRLNWF  
 NLYDLNKDGCITKEEMLDIMKSIYDMMGKYTPALREEAPREHVESFFQKMDRNKDGVVITIEEFIESCQQ  
 DENIMRSMQLFDNVI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

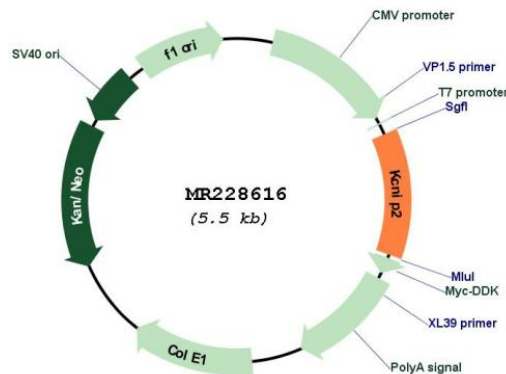
**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**Plasmid Map:**



**ACCN:** NM\_001276358

**ORF Size:** 675 bp

<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001276358.1</a> , <a href="#">NP_001263287.1</a>
<b>RefSeq Size:</b>	2025 bp
<b>RefSeq ORF:</b>	678 bp
<b>Locus ID:</b>	80906
<b>UniProt ID:</b>	<a href="#">Q9J169</a>
<b>Cytogenetics:</b>	19 38.75 cM
<b>MW:</b>	26.6 kDa
<b>Gene Summary:</b>	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]