

Product datasheet for **MC226405**

Kcnip2 (NM_001276358) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Kcnip2 (NM_001276358) Mouse Untagged Clone
Tag: Tag Free
Symbol: Kcnip2
Synonyms: KChI; KChIP2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC226405 representing NM_001276358
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGAACCGCTGCCCTCGCAGGTGCCGGAGCCCGTTGGGGCAGGCAGCTCGGTCTCTCTACCAGTTGGTGA
CTGGGTCAGTGTCCGACAGCAGCGTGGAGGATGAGTTTGAACATCCACGGTGTGCCACCGGCCTGAGGG
TCTGGAACAACCTCAGGAACAAACCAAGTTCACACGCAGAGAGTTGCAGGTCCTGTACAGAGGCTTCAAG
AACGAATGTCCCAGCGGAATTGTCAACGAGGAGAACTTCAAGCAAATTTATTCTCAGTCTTTCCCAAG
GAGACTCCAGCAACTACGCTACTTTTCTCTTCAATGCCTTTGACACCAACCATGATGGCTCTGTCAGTTT
TGAGGACTTTGTGGCTGGTTTGTCAAGTATCTCGGGGAACCATAGATGATAGACTGAAGTGGGCTTTC
AACTTATATGACCTCAACAAGGATGGCTGTATCACGAAGGAGGAAATGCTCGACATCATGAAGTCCATCT
ATGACATGATGGGCAAGTACACCTACCCTGCCCTCCGGGAGGAGGCCCGAGGGAACACGTGGAGAGCTT
CTTCCAGAAGATGGACAGAAACAAGGACGGCGTGGTGACCATTGAGGAATTCATTGAGTCTTGTCAACAG
GACGAGAACATCATGAGGTCCATGCAACTCTTTGATAATGTCATC**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001276358
Insert Size: 678 bp



[View online »](#)

| | |
|-------------------------------|---|
| 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: | Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag. |
| 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: | <u>NM_001276358.1</u> , <u>NP_001263287.1</u> |
| RefSeq Size: | 2025 bp |
| RefSeq ORF: | 678 bp |
| Locus ID: | 80906 |
| UniProt ID: | <u>Q9J169</u> |
| 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 (d) uses an alternate 5' exon structure, lacks an in-frame segment in the coding region, and initiates translation at an alternate start codon, compared to variant a. The encoded isoform (d) has a distinct N-terminus and is shorter than isoform a.</p> |