

Product datasheet for **MC226401**

Kcnip4 (NM_001199244) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Kcnip4 (NM_001199244) Mouse Untagged Clone
Tag: Tag Free
Symbol: Kcnip4
Synonyms: AV032399; Calp; Calp250; KChIP4; KChIP4a
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC226401 representing NM_001199244
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAGTGGCTGTAGGAAACGGTGTAAACGTGAAATATTGAAATTTGCCAGTACCTTCTCAGGCTATTAA
 CAGGTTCTTTCATACAGACAGCGTGGAAGATGAGCTGGAGATGGCTACTGTGAGGATCGGCCTGAAGC
 CCTGGAGCTGCTGGAGGCCAGAGCAAATTCACCAAGAAAGAGCTTCAGATTCTTTACAGAGGATTTAAG
 AATGAATGCCCCAGTGGTGTGTTAATGAAGAACTTTCAAGGAGATTTACTCACAGTCTTTCCACAGG
 GAGACTCCACCACATATGCACATTTTCTTCAATGCATTGACACGGACCACAATGGAGCTGTGAGCTT
 TGAGGATTTATCAAAGGTCTTTCCATTTTGTCTCGAGGGACAGTACAAGAAAACTCAACTGGGCATTT
 AATTTGTATGACATAAACAAAGATGGCTACATCACTAAAGAAGAAATGCTGGACATAATGAAAGCAATCT
 ACGACATGATGGGGAAATGCACATACCCGGTCTCAAGGAAGATGCTCCCGACAGCATGTGGAGACGTT
 CTTCCAGAAGATGGACAAAAATAAAGATGGTGTGCTTACCATAGATGAGTTCATTGAAAGTTGCCAAAAA
 GATGAAAACATAATGCGCTCCATGCAGCTCTTTGAAAATGTGATC**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001199244
Insert Size: 678 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).
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_001199244.1</u> , <u>NP_001186173.1</u>
RefSeq Size:	2403 bp
RefSeq ORF:	678 bp
Locus ID:	80334
Cytogenetics:	5 B3
Gene Summary:	<p>Regulatory subunit of Kv4/D (Shal)-type voltage-gated rapidly inactivating A-type potassium channels, such as KCND2/Kv4.2 and KCND3/Kv4.3 (PubMed:19109250). Modulates channel expression at the cell membrane, gating characteristics, inactivation kinetics and rate of recovery from inactivation in a calcium-dependent and isoform-specific manner.</p> <p>[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (5) has a distinct 5' end, compared to variant (1), which results in an isoform (5) with a shorter and distinct N-terminus, compared to isoform 1.</p>