

Product datasheet for **MC226459**

Kcnip4 (NM_001199245) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Kcnip4 (NM_001199245) 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: >MC226459 representing NM_001199245
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGCTGACTCTAGAGTGGGAGTCGGAAGGACTGCAAACAGTGGGTATTGTTGTGATTATATGTGCGTCTC
TGAAGCTGCTTCATTTGCTGGGACTGATTGATTTTTCGGAAGACAGCGTGAAGATGAGCTGGAGATGCC
TACTGTACGGCATCGGCCTGAAGCCTGGAGCTGCTGGAGGCCAGAGCAAATTCACCAAGAAAGAGCTT
CAGATTCTTACAGAGGATTTAAGAATGAATGCCCCAGTGGTGTGTTAATGAAGAACTTTCAAGGAGA
TTTACTCACAGTTCTTTCCACAGGGAGACTCCACCACATATGCACATTTCTCTTCAATGCATTCGACAC
GGACCACAATGGAGCTGTGAGCTTTGAGGATTTTCATCAAAGTCTTTCCATTTGCTTCGAGGGACAGTA
CAAGAAAACTCAACTGGGCATTTAATTTGATGACATAAAACAAAGATGGCTACATCACTAAAGAAGAAA
TGCTGGACATAATGAAAGCAATCTACGACATGATGGGGAAATGCACATACCCGGTCTCAAGGAAGATGC
TCCCCGACAGCATGTGGAGACGTTCTTCCAGAAGATGGACAAAAATAAGATGGTGTGCTTACCATAGAT
GAGTTCATTGAAAGTTGCCAAAAAGATGAAAACATAATGCGCTCCATGCAGCTCTTTGAAATGTGATCT
AG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001199245
Insert Size: 702 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_001199245.1, NP_001186174.1</u>
RefSeq Size:	2256 bp
RefSeq ORF:	702 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 (6) has a distinct 5' end, compared to variant (1), which results in an isoform (6) with a shorter and distinct N-terminus, compared to isoform 1.</p>