

## Product datasheet for MC226576

### Kcnip4 (NM\_001199242) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Kcnip4 (NM\_001199242) 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:** >MC226576 representing NM\_001199242  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGAACGTGAGAAGGGTGGAAAGCATCTCGGCTCAGCTGGAGGAGCGGAGCTCCACAGGCGGTTTCCTCT  
 ACGCGCAGAACAACCAAGCGCAGCATTAAAGAGCGGCTCATGAAGCTTTGCCCTGCTCAGCTGCCAA  
 AACGTCGCTCCTGCTATTCAAACAGCGTGGAAGATGAGCTGGAGATGGCTACTGTCAGGCATCGGCCT  
 GAAGCCCTGGAGCTGCTGGAGGCCAGAGCAAATTCACCAAGAAAAGAGCTTCAGATTCTTTACAGAGGAT  
 TTAAGAATGAATGCCCCAGTGGTGTGTTAATGAAGAACTTTCAAGGAGATTTACTCACAGTTCTTTCC  
 ACAGGGGAGACTCCACCACATATGCACATTTTCTTCAATGCATTCGACACGGACCAATGGAGCTGTG  
 AGCTTTGAGGATTTATCAAAGGTCTTTCCATTTTGCTTCGAGGGACAGTACAAGAAAACTCAACTGGG  
 CATTTAATTTGTATGACATAAACAAGATGGCTACATCACTAAAGAAGAAATGCTGGACATAATGAAAGC  
 AATCTACGACATGATGGGAAAATGCACATACCCGGTCTCAAGGAAGATGCTCCCGACAGCATGTGGAG  
 ACGTTCTCCAGAAGATGGACAAAAATAAAGATGGTGTGTTACCATAGATGAGTTCATTGAAAGTTGCC  
 AAAAAGATGAAAACATAATGCGCTCCATGCAGCTCTTTGAAAATGTGATC**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul  
**ACCN:** NM\_001199242  
**Insert Size:** 753 bp



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<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<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>	<u>NM_001199242.1, NP_001186171.1</u>
<b>RefSeq Size:</b>	2362 bp
<b>RefSeq ORF:</b>	753 bp
<b>Locus ID:</b>	80334
<b>UniProt ID:</b>	<u>Q6PHZ8</u>
<b>Cytogenetics:</b>	5 B3
<b>Gene Summary:</b>	<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 (1) encodes the longest isoform (1).</p>