

## Product datasheet for MC226159

### Kcnip1 (NM\_001290690) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Kcnip1 (NM\_001290690) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Kcnip1  
**Synonyms:** KCHIP1; Kchip1.2  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC226159 representing NM\_001290690  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGACCATGGTTTGCCACCGGCCTGAGGGACTGGAGCAGCTTGAGGCACAGACGAACTTCACCAAGAGAG  
 AACTGCAAGTCTGTACCGGGGATTCAAAAACGAGTGCCCTAGCGGTGTGGTCAATGAAGAAACATTCAA  
 GCAGATCTACGCTCAGTTTTTCCCTCACGGAGATGCCAGCACATATGCACATTACCTCTCAATGCCTTC  
 GACACCACCAGACAGGCTCTGTAAAGTTCGAGGACTTTGTGACTGCTCTGTCGATTTTACTGAGAGGGA  
 CAGTCCATGAAAACTAAGGTGGACGTTAATTTGTATGACATCAATAAAGACGGCTACATAAACAAAGA  
 GGAGATGATGGACATAGTCAAAGCCATCTATGACATGATGGGAAATACACCTATCCTGTGCTCAAAGAG  
 GACTCCAGGCAGCATGTGGATGTCTTCCAGAAAATGGATAAAAAATAAGATGCCATTGTAACGT  
 TAGATGAATTTCTTGAATCATGTCAGGAGGATGACAACATCATGAGATCTCTACAGCTGTTCCAAAATGT  
 CATG**TAA**

**ACGCGT**ACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001290690  
**Insert Size:** 567 bp

**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).



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<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>	<a href="#">NM_001290690.1</a> , <a href="#">NP_001277619.1</a>
<b>RefSeq Size:</b>	2005 bp
<b>RefSeq ORF:</b>	567 bp
<b>Locus ID:</b>	70357
<b>UniProt ID:</b>	<a href="#">Q9JJ57</a>
<b>Cytogenetics:</b>	11 A4
<b>Gene Summary:</b>	Regulatory subunit of Kv4/D (Shal)-type voltage-gated rapidly inactivating A-type potassium channels. Regulates channel density, inactivation kinetics and rate of recovery from inactivation in a calcium-dependent and isoform-specific manner. Modulates KCND2/Kv4.2 currents (PubMed:14572458). In vitro, modulates KCND1/Kv4.1 currents (By similarity). Increases the presence of KCND2 at the cell surface.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (D) differs in its 5' UTR and uses a downstream start codon, compared to variant A. The encoded isoform (D) has a shorter N-terminus, compared to isoform A.