

## Product datasheet for **SC122112**

### KChIP2 (KCNIP2) (NM\_173195) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** KChIP2 (KCNIP2) (NM\_173195) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** KChIP2  
**Synonyms:** KCHIP2  
**Mammalian Cell Selection:** None  
**Vector:** pCMV6-XL5  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_173195 edited  
 CTAGTGTCCCTCTCCTGCTCCAGGACCTCCGGGTAGACCTCAGACCCCGGGCCATTCC  
 CAGACTCAGCCTCAGCCCGGACTTCCCCAGCCCCGACAGCACAGTAGGCCGCCAGGGGGC  
 GCCGTGTGAGCGCCTATCCCGGCCACCCGGCGCCCCCTCCACGGCCCGGGCGGAGCG  
 GGGCGCCGGGGCCATGCGGGGCCAGGGCCGCAAGGAGAGTTTGTCCGATTCCCAGACC  
 TGGACGGCTCCTACGACCAGCTCACGGACAGCGTGGACGATGAATTTGAATTGTCCACCG  
 TGTGTACCCGGCCTGAGGGTCTGGAGCAGCTGCAGGAGCAAACAAATTCACGCGCAAGG  
 AGTTGCAGGTCTGTACCGGGCTTCAAGAACGAATGTCCAGCGGAATTGTCAATGAGG  
 AGAACTCAAGCAGATTTACTCCAGTTCTTTCTCAAGGAGACTCCAGCACCTATGCCA  
 CTTTTCTTTCAATGCCTTTGACACCAACCATGATGGCTCGGTGAGTTTGGAGACTTTG  
 TGGCTGGTTTGTCCGTGATTCTTCGGGGAAGTGTAGATGACAGGCTTAATTGGGCCTTCA  
 ACCTGTATGACCTTAACAAGGACGGCTGCATCACCAAGGAGGAAATGCTTGACATCATGA  
 AGTCCATCTATGACATGATGGGCAAGTACACGTACCCTGCACTCCGGGAGGAGGCCCAA  
 GGGAACACGTGGAGAGCTTCTTCCAGAAGATGGACAGAAACAAGGATGGTGTGGTGACCA  
 TTGAGGAATTCATTGAGTCTTGTCAAAAGGATGAGAACATCATGAGGTCCATGCAGCTCT  
 TTGACAAATGTCATCTAGCCCCCAGGAGAGGGGGTCAAGTGTTCCTGGGGGACCATGCTC  
 TAACCCTAGTCCAGGCGGACCTCACCTTCTCTCCCAGGTCTATCCTCATCCTACGCTC  
 CCCTGGGGGCTGGAGGGATCCAAGAGCTTGGGGATTGAGTCCAGATCTCTGGAGCTG  
 AAGGGCCAGAGAGTGGCAGAGTGCATCTCGGGGGTGTCCCAACTCCACAGCTCT  
 CACCCCTTCTGCCTGACACCCAGTGTGAGAGTGCCCTCCTGTAGGAATTGAGCGGT  
 TCCCCACCTCCTACCCTACT

**Restriction Sites:** Please inquire  
**ACCN:** NM\_173195  
**Insert Size:** 1200 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>	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_173195.2.
<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_173195.2, NP_775287.1</u>
<b>RefSeq Size:</b>	2413 bp
<b>RefSeq ORF:</b>	663 bp
<b>Locus ID:</b>	30819
<b>UniProt ID:</b>	<u>Q9NS61</u>
<b>Cytogenetics:</b>	10q24.32
<b>Protein Families:</b>	Druggable Genome, Ion Channels: Other
<b>Gene Summary:</b>	<p>This gene encodes a member of the family of voltage-gated potassium (Kv) channel-interacting proteins (KCNIPs), which belongs to the recoverin branch of the EF-hand superfamily. Members of the KCNIP family are small calcium binding proteins. They all have EF-hand-like domains, and differ from each other in the N-terminus. They are integral subunit components of native Kv4 channel complexes. They may regulate A-type currents, and hence neuronal excitability, in response to changes in intracellular calcium. Multiple alternatively spliced transcript variants encoding distinct isoforms have been identified from this gene. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (6), also known as KCHIP2.2, KCHIP2T or KCHIP2S, lacks two consecutive in-frame segments in the coding region, as compared to variant 1. It encodes a shorter isoform (6), that is missing an internal segment compared to isoform 1.</p>