

## Product datasheet for **SC306795**

### **KCHIP2 (KCNIP2) (NM\_173191) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	KCHIP2 (KCNIP2) (NM_173191) Human Untagged Clone
Tag:	Tag Free
Symbol:	KCHIP2
Synonyms:	KCHIP2
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_173191 edited  
 GGCTCTGCGCTCACCTGCCTAGTGTCCCTCTCCTGCTCCAGGACCTCCGGGTAGAC  
 CTCAGACCCCGGGCCATTCCCAGACTCAGCCTCAGCCCGGACTTCCCCAGCCCCGACAG  
 CACAGTAGGCGCCAGGGGGCGCCGTGTGAGCGCCCTATCCCGGCCACCCGGCGCCCCCT  
 CCCACGGCCCGGGCGGGAGCGGGGGCCGCGGGGCCATGCGGGGCCAGGGCCGAAGGAGA  
 GTTTGTCCGATTCCCAGACCTGGACGGCTCCTACGACCAGCTCACGGGCCACCTCCAG  
 GGCCCACTAAAAAGCGCTGAAGCAGCGATTCTCAAGCTGCTGCCGTGCTGCGGGCCCC  
 AAGCCCTGCCCTCAGTCAGTGAAACATTAGCCGCCAGCCTCCCTCCGCCCCACAGAC  
 CCCGCTGCTGGACCCAGACAGCGTGGACGATGAATTTGAATTGTCCACCGTGTGCACC  
 GGCCTGAGGGTCTGGAGCAGCTGCAGGAGCAAACCAAATTCACGCGCAAGGAGTGCAGG  
 TCCTGTACCGGGCTTCAAGAACGAATGTCCAGCGGAATTGTCAATGAGGAGAATTCA  
 AGCAGATTTACTCCAGTTCTTTCTCAAGGAGACTCCAGCACCTATGCCACTTTTCTCT  
 TCAATGCCTTTGACACCAACCATGATGGCTCGGTGAGTTTGGAGACTTTGTGGTGGTT  
 TGTCGGTATTCTTCGGGAACGTAGATGACAGGCTTAATTGGGCTTCAACCTGTATG  
 ACCTTAACAAGGACGGCTGCATACCAAGGAGGAAATGCTTGACATCATGAAGTCCATCT  
 ATGACATGATGGCAAGTACACGTACCCGCACTCCGGGAGGAGGCCCAAGGGAACACG  
 TGGAGAGCTTCTCCAGAAGATGGACAGAAACAAGGATGGTGTGGTGACCATTGAGGAAT  
 TCATTGAGTCTTGTCAAAAGGATGAGAACATCATGAGGTCCATGCAGCTTTTGACAATG  
 TCATCTAGCCCCAGGAGAGGGGTGAGTGTTCCTGGGGGACCATGCTCTAACCTAG  
 TCCAGGCGGACCTCACCTTCTCTTCCAGGTCTATCCTCATCTACGCCTCCCTGGGG  
 CTGGAGGGATCCAAGAGCTTGGGATTCAGTAGTCCAGATCTCTGGAGCTGAAGGGGCCA  
 GAGAGTGGCAGAGTGCATCTCGGGGGTGTCCCAACTCCCACCAGCTCTCACCCCTT  
 CCTGCCTGACACCCAGTGTGAGAGTGCCCTCCTGTAGGAATTGAGCGGTTCCCCACT  
 CCTACCCCTACTCTAGAAACACACTAGACAGATGTCTCCTGCTATGGTGTCTCCCCATC  
 CCTGACCTCATAAACATTTCCCTAAGACTCCCTCTCAGAGAGAATGCTCCATTCTTGG  
 CACTGGCTGGCTTCTCAGACCAGCCATTGAGAGCCCTGTGGGAGGGGGACAAGAATGTAT  
 AGGGAGAAATCTTGGCCTGAGTCAATGGATAGGTCTAGGAGGTGGCTGGGGTTGAGAA  
 TAGAAGGGCCTGGACAGATTATGATTGCTCAGGCATACCAGGTTATAGCTCCAAGTTCCA  
 CAGGTCTGCTACCACAGGCCATCAAAATATAAGTTTCCAGGCTTGCAGAAGACCTTGTC  
 TCCTTAGAAATGCCCCAGAAATTTCCAAACCCTCCTCGGTATCCATGGAGAGCCTGGGG  
 CCAGATATCTGGCTCATCTCTGGCATTGCTTCTCCTCCTTCTCCTGCATGTGTGGTG  
 GTGGTTGTGGTGGGGAAATGTGGATGGGGATGTCTGGCTGATGCCTGCCAAAATTTCA  
 TCCCACCCTCCTTGTATTATCGTCCCTGTTTTGAGGGCTATGACTTGAGTTTTGTTTCCC  
 ATGTTCTCTATAGACTTGGGACCTTCTGAACTTGGGGCCTATCACTCCCCACAGTGGAT  
 GCCTTAGAAGGGAGAGGGGAGGAGGGAGGCAGGCATAGCATCTGAACCCAGTGTGGGGGC  
 ATTCACTAGAATCTTCAATCAACCTGGGCTCTCCCCACCCACCCAGATAACCTCCTCA  
 GTTCCCTAGGGTCTTCTTGTGACTCAATCTACCCAGAGATGCCCTTAGCACACCT  
 AGAGGGCAGGGACCATAGGACCCAGGTTCCAACCCATTGTCAGCACCCAGCCATGCGG  
 CCACCCCTTAGCACACCTGCTCGTCCCATTAGCTTACCCTCCCAGTTGGCCAGAATCTG  
 AGGGGAGAGCCCCAGAGAGCCCCCTTCCCATCAGAAGACTGTTGACTGCTTTGCATTT  
 TGGGCTCTTATATATTTTGTAAAGTAAGAAATATACCAGATCTAATAAACACAAATGG  
 CTATGCAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire  
**ACCN:** NM\_173191  
**Insert Size:** 2500 bp

<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_173191.2.
<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_173191.2</u> , <u>NP_775283.1</u>
<b>RefSeq Size:</b>	2563 bp
<b>RefSeq ORF:</b>	813 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 (2), also known as KCHIP2.4 or KCHIP2L, lacks an in-frame segment in the coding region, as compared to variant 1. Isoform 2 is thus shorter than isoform 1.</p>