

## Product datasheet for **SC306796**

### **KCHIP2 (KCNIP2) (NM\_173193) Human Untagged Clone**

#### **Product data:**

<b>Product Type:</b>	Expression Plasmids
<b>Product Name:</b>	KCHIP2 (KCNIP2) (NM_173193) Human Untagged Clone
<b>Tag:</b>	Tag Free
<b>Symbol:</b>	KCNIP2
<b>Synonyms:</b>	KCHIP2
<b>Vector:</b>	<u>pCMV6 series</u>
<b>Fully Sequenced ORF:</b>	>NCBI ORF sequence for NM_173193, the custom clone sequence may differ by one or more nucleotides ATGCGGGGCCAGGGCCGCAAGGAGAGTTTGTCCGATTCCCGAGACCTGGACGGCTCCTAC GACCAGCTCACGGACAGCGTGGACGATGAATTTGAATTGTCCACCGTGTGTACCGGCT GAGGGTCTGGAGCAGCTGCAGGAGCAAACCAAATTCACGCGCAAGGAGTGCAGGTCCTG TACCGGGGCTTCAAGAACCCTGGTGCCCTCTCCTTCCAGGAATGTCCAGCGGAATTGTC AATGAGGAGAAGTCAAGCAGATTTACTCCAGTCTTTTCTCAAGGAGACTCCAGCACC TATGCCACTTTTCTTTCAATGCCTTTGACACCAACCATGATGGCTCGGTCAGTTTTGAG GACTTTGTGGCTGGTTTGTCCGTGATTCTTCGGGAACTGTAGATGACAGGCTTAATTGG GCCTTCAACCTGTATGACCTTAACAAGGACGGCTGCATACCAAGGAGGAAATGCTTGAC ATCATGAAGTCCATCTATGACATGATGGGCAAGTACACGTACCCTGCACTCCGGGAGGAG GCCCAAGGGAACACGTGGAGAGCTTCTTCCAGAAGATGGACAGAAACAAGGATGGTGTG GTGACCATTGAGGAATTCATTGAGTCTTGTCAAAGGATGAGAACATCATGAGGTCCATG CAGCTCTTTGACAATGTCATCTAG
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_173193
<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>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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).



**Reconstitution Method:**

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:** [NM\\_173193.2](#), [NP\\_775285.1](#)

**RefSeq Size:** 2434 bp

**RefSeq ORF:** 684 bp

**Locus ID:** 30819

**UniProt ID:** [Q9NS61](#)

**Cytogenetics:** 10q24.32

**Protein Families:** Druggable Genome, Ion Channels: Other

**Gene Summary:** 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]

Transcript Variant: This variant (4), also known as KCHIP2S, lacks two consecutive in-frame segment and has an additional in-frame segment in the coding region, as compared to variant 1. Isoform 4 is shorter, but has the same N- and C-termini, as compared to isoform 1.