

## Product datasheet for **SC324582**

### **KCHIP2 (KCNIP2) (NM\_173192) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	KCHIP2 (KCNIP2) (NM_173192) Human Untagged Clone
Tag:	Tag Free
Symbol:	KCHIP2
Synonyms:	KCHIP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_173192.2  
 GGCTCTGCCTCACCTGCCTAGTGTCCCTCTCCTGCTCCAGGACCTCCGGGTAGAC  
 CTCAGACCCCGGGCCATTCCCAGACTCAGCCTCAGCCCGGACTCCCCAGCCCCGACAG  
 CACAGTAGGCCCGCAGGGGGCGCCGTGTGAGCGCCCTATCCCGGCCACCCGGCGCCCCCT  
 CCCACGGCCCGGGCGGGAGCGGGGGCGCCGGGGGCCATGCGGGGCCAGGGCCGAAGGAGA  
 GTTTGTCCGATTCCCAGACCTGGACGGCTCCTACGACCAGCTCACGGGCCACCTCCAG  
 GGCCCACTAAAAAGCGCTGAAGCAGCGATTCCCTCAAGCTGCTGCCGTGCTGCGGGCCCC  
 AAGCCCTGCCCTCAGTCAGTGAAAACAGCGTGGACGATGAATTTGAATTGTCCACCGTGT  
 GTCACCGGCTGAGGGTCTGAGAGCAGCTGCAGGAGCAAACCAAATTCACGCGCAAGGAGT  
 TGCAGGTCTGTACCGGGCTTCAAGAACGAATGTCCCAGCGAATTGTCAATGAGGAGA  
 ACTTCAAGCAGATTTACTCCCAGTCTTTCTCAAGGAGACTCCAGCACCTATGCCACTT  
 TTCTTCAATGCCTTTGACACCAACCATGATGGCTCGGTGAGTTTGGAGACTTTGTGG  
 CTGGTTTGTCCGTGATTCTCGGGAACTGTAGATGACAGGCTTAATTGGGCCTCAACC  
 TGTATGACCTTAAACAAGGACGGCTGCATCACCAGGAGGAAATGCTTGACATCATGAAGT  
 CCATCTATGACATGATGGCAAGTACACGTACCCTGCACTCCGGGAGGAGCCCCAAGGG  
 AACACGTGGAGAGCTTCTCCAGAAGATGGACAGAAACAAGGATGGTGTGGTGACCATTG  
 AGGAATTCATTGAGTCTTGTCAAAGGATGAGAACATCATGAGGTCCATGCACTCTTTG  
 ACAATGTCATCTAGCCCCAGGAGAGGGGGTCAAGTGTTCCTGGGGGGACCATGCTCTAA  
 CCCTAGTCCAGGCGGACCTCACCTTCTCTTCCAGGTCTATCCTCATCTACGCCTCCC  
 TGGGGGCTGGAGGGATCCAAGAGCTTGGGGATTCAAGTGTCCAGATCTCTGGAGCTGAAG  
 GGGCCAGAGAGTGGCAGAGTGCATCTCGGGGGTGTCCCAACTCCCACCAGCTCTCAC  
 CCCCTTCTGCCTGACACCCAGTGTGAGAGTGGCCCTCCTGTAGGAATTGAGCGGTTCC  
 CCACCTCTACCCCTACTCTAGAAACACACTAGACAGATGTCTCCTGCTATGGTGCTTCC  
 CCATCCCTGACCTCATAAACATTTCCCTAAGACTCCCTCTCAGAGAGAATGCTCCAT  
 TCTTGGCACTGGCTGGTCTCTCAGACCAGCCATTGAGAGCCCTGTGGGAGGGGACAAGA  
 ATGTATAGGGAGAAATCTTGGGCTGAGTCAATGGATAGGTCTAGGAGGTGGTGGGGT  
 TGAGAATAGAAGGGCCTGGACAGATTATGATTGCTCAGGCATACCAGTTATAGCTCCAA  
 GTTCCACAGGTCTGCTACCACAGGCCATCAAAATAAAGTTTCCAGGCTTGCAGAAGAC  
 CTTGTCTCCTTAGAAATGCCCCAGAAATTTTCAAACCCTCCTCGGTATCCATGGAGAGC  
 CTGGGGCCAGATATCTGGCTCATCTCTGGCATTGCTTCTCCTCCTCCTCCTGCATGTG  
 TTGGTGGTGGTTGTGGTGGGGAAATGTGGATGGGGGATGCTCTGGCTGATGCCTGCCAAA  
 ATTTTCATCCCACCTCCTTGCTTATCGTCCCTGTTTTGAGGGCTATGACTTGAGTTTTTG  
 TTTCCCATGTTCTCTATAGACTTGGGACCTTCTGAACCTTGGGGCCTATCACTCCCCACA  
 GTGGATGCCTTAGAAGGGAGAGGGAAGGAGGGAGGCAGGCATAGCATCTGAACCCAGTGT  
 GGGGGCATTCACTAGAATCTTCAATCAACCTGGGCTCTCCCCACCCACCCAGATAACC  
 TCCTCAGTTCCCTAGGGTCTCTTCTTGCTTACTCAATCTACCAGAGATGCCCTTAGC  
 ACACCTAGAGGGCAGGGACCATAGGACCCAGGTTCCAACCCATTGTCAGCACCCAGCC  
 ATGCGGCCACCCCTTAGCACACCTGCTCGTCCCATTAGCTTACCCTCCCAGTTGGCCAG  
 AATCTGAGGGGAGAGCCCCAGAGAGCCCTTCCCATCAGAAGACTGTTGACTGCTTT  
 GCATTTTGGGCTTCTATATATTTTGTAAAGTAAGAAATATACCAGATTAATAAAAACA  
 CAATGGCTATGCAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_173192

**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).

<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).
<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_173192.2</a> , <a href="#">NP_775284.1</a>
<b>RefSeq Size:</b>	2509 bp
<b>RefSeq ORF:</b>	759 bp
<b>Locus ID:</b>	30819
<b>UniProt ID:</b>	<a href="#">Q9NS61</a>
<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 (3), also known as KCHIP2.1, lacks an in-frame segment in the coding region, as compared to variant 1. Isoform 3 is thus shorter than isoform 1.</p>