

## Product datasheet for **SC114946**

### KCNIP1 (NM\_014592) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	KCNIP1 (NM_014592) Human Untagged Clone
Tag:	Tag Free
Symbol:	KCNIP1
Synonyms:	KCHIP1; VABP
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC114946 sequence for NM_014592 edited (data generated by NextGen Sequencing)

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ATGGGGGCCGTCATGGGCACCTTCTCATCTCTGCAAACCAACAAGGCGACCCTCGAAA  
GATAAGATTGAAGATGAGCTGGAGATGACCATGGTTTGCCATCGGCCCGAGGGACTGGAG  
CAGCTCGAGGCCAGACCAACTTACCAAGAGGGAGCTGCAGGTCCTTTATCGAGGCTTC  
AAAAATGAGTGCCCCAGTGGTGTGGTCAACGAAGACACATTCAAGCAGATCTATGCTCAG  
TTTTTCCCTCATGGAGATGCCAGCACGTATGCCATTACCTCTTCAATGCCTTCGACACC  
ACTCAGACAGGCTCCGTGAAGTTCGAGGACTTTGTAACCGCTCTGTGATTTTATTGAGA  
GGAAGTGTCCACGAGAACTAAGGTGGACATTTAATTTGTATGACATCAACAAGGACGGA  
TACATAAACAAAGAGGAGATGATGGACATTGTCAAAGCCATCTATGACATGATGGGGAAA  
TACACATATCCTGTGCTCAAAGAGGACTCCAAGGCAGCATGTGGACGCTTCTTCCAG  
AAAATGGACAAAAATAAAGATGGCATCGTAACTTTAGATGAATTTCTTGAATCATGTGAG  
GAGGACGACAACATCATGAGGTCTCTCCAGCTGTTTCAAATGTCATGTAA
```

Clone variation with respect to NM\_014592.2



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_014592 unedited  
 GGTTCACATTTTGAATACGACTTCACTATAGGGCGGCCGGAATCGGCACGAGGCCTCG  
 TGCCGAATTCGGCAGGAGGTAGCCTCGCCTCCACGCTTGTGAATACCAAGCTGCAGGCG  
 AGCTGCCGGGCGCTTTTCTCTCCAATTCAGAGTAGACAAACCACGGGGATTTCTTTC  
 CAGGGTAGGGGAGGGGCCGGGCCGGGTCCCAACTCGCACTCAAGTCTTCGCTGCCATG  
 GGGGCCGTATGGGCACCTTCTCATCTCTGCAAACCAACAAAGGCGACCCTCGAAAGAT  
 AAGATTGAAGATGAGCTGGAGATGACCATGGTTTGCCATCGGCCCGAGGGACTGGAGCAG  
 CTCGAGGCCAGACCAACTTACCAAGAGGGAGCTGCAGGTCCTTTATCGAGGCTTCAAA  
 AATGAGTGCCCCAGTGGTGTGGTCAACGAAGACACATTCAAGCAGATCTATGCTCAGTTT  
 TTCCCTCATGGAGATGCCAGCACGTATGCCATTACCTCTTCAATGCCTTCGACACCACT  
 CAGACAGGCTCCGTGAAGTTCGAGGACTTTGTAACCGCTCTGTCGATTTTATTGAGAGGA  
 ACTGTCCACGAGAACTAAGGTGGACATTTAATTTGTATGACATCAACAAGGACGGATAC  
 AATAACAAAGAGGAGATGATGGACATTGTCAAAGCCATCTATGACATGATGGGAAATAC  
 ACATATCTGTGCTCAAAGAGGACTCCAAGGCAGCATGTGGACGTCTTCTCCAGAAA  
 TGGACAAAAATAAGATGGCATCGTAACTTTAGATGAATTTCTTTGATCATGTCAGGAGGA  
 CAACCACATCACTGAGTCTCTCCACCTGTTTCAAATGTCATGTAAGTGTGACACTCAGG  
 CATTTCAGCTCTCAAAAACATTGGACTAAACAACCN

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_014592 unedited  
 CCCAAATGTTGNACCGCGCTCGCAANCTACGGAGCGTTTTTTTTTTTTTTTTTTTGGAGG  
 ATGTAAGAAATAGTTCTGTTTATTGGTTAGAACATGGTATAAAATTACAGCAATTTGCAG  
 GCATTCTGGACTTCTTGGGAGGGACATGCAGCGCTGGGCTCAAGCAGGGGATGTGGTGA  
 GATATGGACCACTGGGCAATGGCTCCCTTCTGGACATATTAAGGACTTGTACTACCAG  
 CACAAATGCCAGTGTGAGAGAATTATTGGTCTCGTTTCTGGAACAAATGACATGGGCA  
 GTTTGGGTCAATCAGACAATATCATGCTTAATAATTCAGTCCTATCCCACATATGTTAGGT  
 GCTGGCTCTCCCAATCTGGTCTGACAGATCCTAATTGTTCTGGATAACTCTCATTCTTC  
 CCACCAAGGAAGAGAAACAGGCACATTGGTTTGGGAGGCCATCAGAGATGGTGTGCATC  
 TGGCTCAGGTCCTTCTGCTTCCAGATTCACCAAGGTCTGCCTGACTTGGAGGCAGTGGGC  
 TGGGGGCACGTAAGCAGCATATTTGTGCACTACTGTTTAAGCTTAAGCAGAGGGACCTT  
 CCATAGGGCAGCAGTGTGAGGAGATGAGCATGCTTCAAAAACAACTCAAATTTTCATCTT  
 GTCTCTCTCAAGAAGAAGAAAGAGGAAGAGTTGGCAATCAGAGACTGAGCCACATGATGC  
 TGGGTTCCATAGAAAAGTCTTTAGCAGAGAATTCTTTCTAAGTGTAAAAGGTGTTTCTGTC  
 CTAGATTTGGTGTGTA AAAACACAAACAGGGCCGATCACGGTGTAAAGGTGTTTGTAGT  
 ACAAGGCCCTTGA AAAACTGAATGGCTGATGCTCCCAATTACATGACATTTGAAAACGCTG  
 GAGAGACCTCCGAAGGTTGCCCCCTTCGC

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_014592

**Insert Size:**

1730 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).

**Components:**

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_014592.2</a> , <a href="#">NP_055407.1</a>
<b>RefSeq Size:</b>	2020 bp
<b>RefSeq ORF:</b>	651 bp
<b>Locus ID:</b>	30820
<b>UniProt ID:</b>	<a href="#">Q9NZI2</a>
<b>Cytogenetics:</b>	5q35.1
<b>Domains:</b>	EFh
<b>Protein Families:</b>	Druggable Genome, Ion Channels: Other
<b>Gene Summary:</b>	<p>This gene encodes a member of the family of cytosolic voltage-gated potassium (Kv) channel-interacting proteins (KCNIPs), which belong to the neuronal calcium sensor (NCS) family of the calcium binding EF-hand proteins. They associate with Kv4 alpha subunits to form native Kv4 channel complexes. The encoded protein may regulate rapidly inactivating (A-type) currents, and hence neuronal membrane excitability, in response to changes in the concentration of intracellular calcium. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, May 2013]</p> <p>Transcript Variant: This variant (2, also known as KCNP1-lb delta1) uses an alternate in-frame splice site in the 5' coding region compared to variant 5. It encodes isoform 2 which is shorter than isoform 5.</p>