

## Product datasheet for **SC111844**

### KCNIP4 (NM\_025221) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	KCNIP4 (NM_025221) Human Untagged Clone
Tag:	Tag Free
Symbol:	KCNIP4
Synonyms:	CALP; KCHIP4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC111844 sequence for NM_025221 edited (data generated by NextGen Sequencing)

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ATGAATGTGAGGAGGGTGGAAAGCATTTTCGGCTCAGCTGGAGGAGCCAGCTCTACAGGC
GGTTTCCTGTACGCTCAGAACAGCACCAAGCGCAGCATTAAAGAGCGGCTCATGAAGCTC
TTGCCCTGCTCAGCTGCCAAAACGTCGTCTCCTGCTATTCAAAACAGCGTGGAAGATGAA
CTGGAGATGGCCACCGTCAGGCATCGGCCCGAAGCCCTTGAGCTTCTGGAAGCCCAGAGC
AAATTTACCAAGAAAGAGCTTCAGATCCTTTACAGAGGATTTAAGAACGAATGCCCCAGT
GGTGTGTTAATGAAGAAACCTTCAAAGAGATTTACTCGCAGTTCTTTCCACAGGGAGAC
TCTACAACATATGCACATTTTCTGTTCAATGCATTTGATACAGACCACAATGGAGCTGTG
AGTTTCGAGGATTTTCATCAAAGGCTTTTCCATTTTCTCCGGGGACAGTACAAGAAAAA
CTCAATTGGGCATTTAATCTGTATGACATAAATAAAGATGGCTACATCACTAAAGAGGAA
ATGCTTGATATAATGAAAGCAATATACGATATGATGGGTAATGTACATATCCTGTCCCTC
AAAGAAGATGCTCCCAGACAACCGTTGAAACATTTTTTTCAGAAAATGGACAAAAATAAA
GATGGGGTTGTTACCATAGATGAGTTTCATTGAAAGCTGCCAAAAAGATGAAAACATAATG
CGCTCCATGCAGCTCTTTGAAAATGTGATTTAA
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Clone variation with respect to NM\_025221.5  
210 t=>c;288 t=>c



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_025221 unedited NGTCAACTTTTGTATACGACTCACTATAGGGCGGCCGGAATCGGCACGAGGGCGGCGGT GCGCTCCCGTGCAGACCCGTGGACAGACGCCCTGGCCGGTGGACTCTCGAGTCTCGCTT CTGCACCTGCGTCCCCAGACATGAATGTGAGGAGGGTGGAAAGCATTTCGGCTCAGCTG GAGGAGGCCAGCTCTACAGGCGGTTTCTGTACGCTCAGAACAGCACCAAGCGCAGCATT AAAGAGCGGCTCATGAAGCTCTTGCCCTGCTCAGCTGCCAAAACGTCGTCTCTGCTATT CAAAACAGCGTGAAGATGAACTGGAGATGGCCACCGTCAGGCATCGGCCCGAAGCCCTT GAGCTTCTGGAAGCCAGAGCAAATTTACCAAGAAAGAGCTTCAGATCCTTTACAGAGGA TTTAAGAACGAATGCCCAAGTGGTGTGTTAATGAAGAAACCTTCAAAGAGATTTACTCG CAGTTCTTTCCACAGGGAGACTCTACAACATATGCACATTTTCTGTTCAATGCATTTGAT ACAGACCACAATGGAGCTGTGAGTTTCGAGGATTTTCATCAAAGGTCTTTCCATTNTGCTC CGGNGGACAGTACAAGAAAACTCAATTGGGCATTTAATCTGTATGACATAAATAAAGAT GGCTACATCACTAAAGAGGAAATGCTTGATATAATGAAAGCAATATACGATATGATGGGT AAATGTACATATCTGCTCANAGAAGATGCTCCAGACCACACGTTGAAACATTNTTT CAGAANATGGACCAAAATAAGATGGGGTGTACCATAGCATGAAGTTCATTGGAAAGC TGCCCAAAAAGATGAAAACATAATGCGCTCCATGCAGCTCTTTGAAATGTGATTTAACTG TCAAATAGATC
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_025221
<b>Insert Size:</b>	2340 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>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><a href="#">NM_025221.4</a></u> , <u><a href="#">NP_079497.2</a></u>
<b>RefSeq Size:</b>	1556 bp
<b>RefSeq ORF:</b>	753 bp
<b>Locus ID:</b>	80333
<b>UniProt ID:</b>	<u><a href="#">Q6PIL6</a></u>
<b>Cytogenetics:</b>	4p15.31-p15.2
<b>Domains:</b>	EFh
<b>Protein Families:</b>	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 belong 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. This protein member also interacts with presenilin. Multiple alternatively spliced transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (1) encodes the longest isoform (1, also known as KCHIP4.1).

Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.