

Product datasheet for **SC306302**

KCNIP4 (NM_147182) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCNIP4 (NM_147182) Human Untagged Clone
Tag:	Tag Free
Symbol:	KCNIP4
Synonyms:	CALP; KCHIP4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC306302 representing NM_147182. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGGCCACCGTCAGGCATCGGCCTGAAGCCCTTGAGCTTCTGGAAGCCAGAGCAAATTTACCAAGAAA
GAGCTTCAGATCCTTTACAGAGGATTTAAGAATGAATGCCCCAGTGGTGTGTTAATGAAGAAACCTTC
AAAGAGATTTACTCGCAGTTCTTTCCACAGGGAGACTCTACAACATATGCACATTTTCTGTTCAATGCA
TTTGATACAGACCACAATGGAGCTGTGAGTTTCGAGGATTTTCATCAAAGTCTTTCCATTTTGCTCCGG
GGGACAGTACAAGAAAACTCAATTGGCATTAACTGTATGACATAAAATAAGATGGCTACATCACT
AAAGAGGAAATGCTTGATATAATGAAAGCAATATACGATATGATGGGTAATGTACATATCCTGTCTC
AAAGAAGATGCTCCAGACAACACGTTGAAACATTTTTTCAGAAAATGGACAAAAATAAAGATGGGGTT
GTTACCATAGATGAGTTCATTGAAAGCTGCCAAAAGATGAAAACATAATGCGCTCCATGCAGCTCTTT
GAAAATGTGATTAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites:	Sgfl-MluI
Plasmid Map:	<input type="checkbox"/>
ACCN:	NM_147182
Insert Size:	567 bp



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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).
OTI Annotation:	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.
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).
Reconstitution Method:	<ol style="list-style-type: none"> 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:	<u>NM_147182.3</u>
RefSeq Size:	2371 bp
RefSeq ORF:	567 bp
Locus ID:	80333
UniProt ID:	<u>Q6PIL6</u>
Cytogenetics:	4p15.31-p15.2
Protein Families:	Druggable Genome, Ion Channels: Other
MW:	21.9 kDa
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (3) has an alternate exon which lacks an in-frame start codon, as compared to variant 1. Use of a downstream start codon results in an isoform (3, also known as KCHIP4.3) that has a shorter N-terminus, as compared to isoform 1. Variants 3 and 6 encode the same isoform (3).</p>