

Product datasheet for **SC306798**

KCHIP2 (KCNIP2) (NM_173197) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCHIP2 (KCNIP2) (NM_173197) Human Untagged Clone
Tag:	Tag Free
Symbol:	KCNIP2
Synonyms:	KCHIP2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>NCBI ORF sequence for NM_173197, the custom clone sequence may differ by one or more nucleotides

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ATGCGGGGCCAGGGCCGCAAGGAGAGTTTGTCCGATTCCCGAGACCTGGACGGCTCTACGACCAGCTCA  
CGGACAGCGTGGACGATGAATTTGAATTGTCCACCGTGTGTACCAGGCTGAGGGTCTGGAGCAGCTGCA  
GGAGCAAACCAATTACGCGCAAGGAGTTGCAGGTCTGTACCGGGCTTCAAGAACGAATGTCCCAGC  
GGAATTGTCAATGAGGAGAACTCAAGCAGATTTACTCCAGTTCTTTCTCAAGGAGACTCCAGCACCT  
ATGCCACTTTTCTCTTCAATGCCTTTGACACCAACCATGATGGCTCGGTCAAGTTTGGAGAAATGCTTGA  
CATCATGAAGTCCATCTATGACATGATGGGCAAGTACACGTACCCTGCACTCCGGGAGGAGGCCCAAGG  
GAACACGTGGAGAGCTTCTTCCAGAAGATGGACAGAAACAAGGATGGTGTGGTGACCATTGAGGAATTC  
TTGAGTCTTGTCAAAGGTACAGCTCCCTGCCCTACATTACCCTGACCTGGACTCAGGCCTGA
```

Restriction Sites:	SgfI-MluI
ACCN:	NM_173197
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.
RefSeq:	<u>NM_173197.2</u> , <u>NP_775289.1</u>



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RefSeq Size: 907 bp

RefSeq ORF: 555 bp

Locus ID: 30819

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 (7), also known as KCHIP2.5, lacks four coding segments: two consecutive in the 5' region, one in the middle, and one at the 3' end, but has an alternate segment at the 3' end, as compared to variant 1. The alternate segment contains the stop codon. Therefore, isoform 7 has a distinct C-terminus and is shorter than isoform 1.