

## Product datasheet for **SC304137**

### KChIP2 (KCNIP2) (NM\_014591) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	KChIP2 (KCNIP2) (NM_014591) Human Untagged Clone
Tag:	Tag Free
Symbol:	KChIP2
Synonyms:	KCHIP2
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_014591 edited ATGCGGGGCCAGGGCCGCAAGGAGAGTTTGTCCGATTCCCAGACCTGGACGGCTCCTAC GACCAGTCCACGGGCCACCCTCCAGGGCCCACTAAAAAGCGCTGAAGCAGCGATTCCCTC AAGCTGCTGCGGTGCTGCGGGCCCAAGCCCTGCCCTCAGTCAGTGAAATTGGCCGGGTC TTCCGCTTTCTCGGTGACAGTTCGCTCCCTTCAGCATTAGCCGCCCCAGCCTCCCTCCGC CCCCACAGACCCCGCTGCTGGACCCAGACAGCGTGGACGATGAATTTGAATTGTCCACC GTGTGTCACCGCCTGAGGGTCTGGAGCAGCTGCAGGAGCAAACCAAATTCACGCGCAAG GAGTTGCAGGTCCTGTACCGGGCTTCAAGAACGAATGTCCAGCGGAATTGTAATGAG GAGAACTCAAGCAGATTTACTCCAGTTCTTTCCTCAAGGAGACTCCAGCACCTATGCC ACTTTTCTTTCAATGCCTTTGACACCAACCATGATGGCTCGGTCAGTTTTGAGGACTTT GTGGCTGGTTTGTCCGTATTCTTCGGGAACTGTAGATGACAGGCTTAATTGGGCCTTC AACCTGTATGACCTTAACAAGGACGGCTGCATACCAAGGAGGAAATGCTTGACATCATG AAGTCCATCTATGACATGATGGGCAAGTACACGTACCCTGCACTCCGGGAGGAGGCCCA AGGGAACACGTGGAGAGCTTCTCCAGAAGATGGACAGAAACAAGGATGGTGTGGTGACC ATTGAGGAATTCATTGAGTCTTGTCAAAAGGATGAGAACATCATGAGGTCCATGCAGCTC TTTGACAAATGTCATCTAG
Restriction Sites:	Please inquire
ACCN:	NM_014591
Insert Size:	900 bp



[View online »](#)

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**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:**

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:** [NM\\_014591.4](#), [NP\\_055406.2](#)

**RefSeq Size:** 2608 bp

**RefSeq ORF:** 858 bp

**Locus ID:** 30819

**UniProt ID:** [Q9NS61](#)

**Cytogenetics:** 10q24.32

**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 (1), also known as KCHIP4.2, encodes the longest isoform (1).