

Product datasheet for **SC322651**

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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for SC322651
 AGGCTTCAGGGCACCGTCTCGGCCCTGGGCGAGGGAACCGCCGGGCCGGGTCTCGCGC
 GGGGAAGCGGTTCCGAAGGCTCGCGGGAGCGGCTAGCCCTGAGTCCCTGCATGTGCGGG
 GCTGAAGAAGGAAGCCAGAAGCCTCCTAGCCTCGCCTCCACGCTTGCTGAATACCAAGCT
 GCAGGCGAGCTGCCGGGCGCTTTTCTCTCTCCAATTGAGAGTACAAACCACGGGGAT
 TTCTTTCCAGGGTAGGGGAGGGGCCGGGCCGGGTCCCAACTCGCACTCAAGTCTTCGC
 TGCCATGGGGCCGTGATGGGCACCTTCTCATCTCTGCAAACCAAAACAAGGCGACCCCTC
 GAAAGATAAGATTGAAGATGAGCTGGAGATGACCATGGTTTGCCATCGGCCCGAGGGACT
 GGAGCAGCTCGAGGCCAGACCAACTTACCAAGAGGGAGCTGCAGGTCCTTTATCGAGG
 CTTCAAAAATGAGTGCCCGAGTGGTGTGGTCAACGAAGACACATTCAAGCAGATCTATGC
 TCAGTTTTTCCCTCATGGAGATGCCAGCACGTATGCCATTACCTCTTCAATGCCTTCGA
 CACCCTCAGACAGGCTCCGTGAAGTTCGAGGACTTTGTAACCGCTCTGTCGATTTTATT
 GAGAGAACTGTCCACGAGAACTAAGGTGGACATTTAATTTGTATGACATCAACAAGGA
 CGGATACATAAAACAAGAGGAGATGATGGACATTGTCAAAGCCATCTATGACATGATGGG
 GAAATACACATATCCTGTGCTCAAAGAGGACACTCCAAGGCAGCATGTGGACGTTCTTT
 CCAGAAAATGGACAAAAATAAGATGGCATCGTAACTTTAGATGAATTTCTTGAATCATG
 TCAGGAGGACGACAACATCATGAGGTCTCTCCAGCTGTTTCAAAAATGTCATGTAACCTGGT
 GACACTCAGCCATTGAGCTCTCAGAGACATTGTAATAACAACCACTTAACACCCTGAT
 CTGCCCTTGTCTGATTTTACACACCAACTCTTGGGACAGAAACACCTTTTACACCTTGG
 AAGAATTTCTGCTGAAGACTTTCTATGGAACCCAGCATCATGTGGCTCAGTCTCTGATT
 GCCAACTTCTCTTTCTTCTTCTTGGAGAGACAAGATGAAATTTGAGTTTGTGGTGG
 AAGCATGCTCATCTCCTCACACTGCTGCCCTATGGAAGTCCCTCTGCTTAAGCTTAAAC
 AGTAGTGCACAAAATATGCTGCTTACGTGCCCCAGCCACTGCCTCCAAGTCAGGCACA
 CCTTGGTGAATCTGGAAGCAAGAGGACCTGAGCCAGATGCACACCATCTCTGATGCCTC
 CAAAACCAATGTGCCTGTTTCTCTTCTTGGTGGGAAGAAATGAGAGTTATCCAGAACA
 TTAGGATCTGTGATGACCAGATTGGGAGAGCCAGCACCTAACATATGTGGGATAGGACTG
 AATTATTAAGCATGACATTGTCTGATGACCCAACTGCCCATGTCATTTGTTTCCAGAAA
 CGAGGACCAATAATTCTCTCACACTGGCATTGTGCTGGTAGTACAAGTCTTTAATATG
 TCCAGGAAGGGAGCCATTGCCAGTGGTCCATATCTCCACCACATCCCCTGCTTGAGCCC
 AGCGCTGCATGTCCCTCCAAGAAGTCCAGAATGCCTGCAAATTGCTGTAATTTTATACC
 ATGTTCTAACCAATAAACAGAACTATTTCTTACAAAAAAAAAAAAAAAAAAAAAAAAAAAA
 AA

- Restriction Sites:** Please inquire
- ACCN:** NM_014592
- 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:

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_014592.2](#), [NP_055407.1](#)

RefSeq Size: 2020 bp

RefSeq ORF: 651 bp

Locus ID: 30820

UniProt ID: [Q9NZI2](#)

Cytogenetics: 5q35.1

Domains: EFh

Protein Families: Druggable Genome, Ion Channels: Other

Gene Summary: 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]

Transcript Variant: This variant (2, also known as KCNP1-lb deltaII) 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.