

Product datasheet for **SC302800**

KCNIP1 (NM_001034838) Human Untagged Clone

Product data:

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|----------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | KCNIP1 (NM_001034838) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | KCNIP1 |
| Synonyms: | KCHIP1; VABP |
| Vector: | <u>pCMV6 series</u> |
| Fully Sequenced ORF: | >NCBI ORF sequence for NM_001034838, the custom clone sequence may differ by one or more nucleotides ATGAGCGGCTGCTCCAAAAGATGCAAGCTTGGGTTCTGTAATTTGCCAGACCATCTTT AAGCTCATCACTGGGACCCTCAGCAAAGATAAGATTGAAGATGAGCTGGAGATGACCATG GTTTGCCATCGGCCGAGGGACTGGAGCAGCTCGAGGCCAGACCAACTCACCAAGAGG GAGCTGCAGGTCCTTTATCGAGGCTTCAAAAATGAGTGCCCCAGTGGTGTGGTCAACGAA GACACATTCAAGCAGATCTATGCTCAGTTTTTCCCTCATGGAGATGCCAGCACGTATGCC CATTACCTCTTCAATGCCTTCGACACCACTCAGACAGGCTCCGTGAAGTTCGAGGACTTT GTAACCGTCTGTGATTTTATTGAGAGGAACTGTCCACGAGAACTAAGGTGGACATTT AATTTGTATGACATCAACAAGGACGGATACATAAACAAAGAGGAGATGATGGACATTGTC AAAGCCATCTATGACATGATGGGAAATACACATATCCTGTGCTCAAAGAGGACACTCCA AGGCAGCATGTGGACGTCTTCTCCAGAAAATGGACAAAATAAAGATGGCATCGTAACT TTAGATGAATTTCTTGAATCATGTCAGGAGGACGACAACATCATGAGGTCTCTCCAGCTG TTTCAAAATGTCATGTAA |
| Restriction Sites: | Please inquire |
| ACCN: | NM_001034838 |
| 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). |



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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_001034838.1](#), [NP_001030010.1](#)

RefSeq Size: 1518 bp

RefSeq ORF: 678 bp

Locus ID: 30820

UniProt ID: [Q9NZI2](#)

Cytogenetics: 5q35.1

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 (3, also known as KCNIP1-1a delta1) contains an alternate 5' terminal exon and uses an alternate in-frame splice site in the 5' coding region, compared to variant 5. It encodes isoform 3 which has a distinct N-terminus and is shorter than isoform 5.