

## Product datasheet for **RC236860**

### **KCNIP1 (NM\_001278339) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** KCNIP1 (NM\_001278339) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** KCNIP1  
**Synonyms:** KCHIP1; VABP  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC236860 representing NM\_001278339  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGGCCGTCATGGGCACCTTCTCATCTCTGCAAACCAAACAAGGCGACCCTCGAAAGATAAGATTG  
AAGATGAGCTGGAGATGACCATGGTTTGCATCGGCCGAGGGACTGGAGCAGCTCGAGGCCAGACCAA  
CTTACCAAGAGGAGCTGCAGGTCCTTATCGAGGCTTCAAAAATGAGTGCCCCAGTGGTGTGGTCAAC  
GAAGACACATTC AAGCAGATCTATGCTCAGTTTTTCCCTCATGGAGCCCTGCCTTGTGGAAAGTTCTC  
CCTGTGTGGAATTCCTGCCCCATCACCTGCCCTCCTTTTCTGCCTTGTAGATGCCAGCAGTATGCCCA  
TTACCTCTTCAATGCCTTCGACACCACTCAGACAGGCTCCGTGAAGTTCGAGGACTTTGTAACCGCTCTG  
TCGATTTTATTGAGAGGAAGTCCACGAGAACTAAGGTGGACATTTAATTTGTATGACATCAACAAGG  
ACGGATACATAAACAAGAGGAGATGATGGACATTGTCAAAGCCATCTATGACATGATGGGGAAATACAC  
ATATCTGTGCTCAAAGAGGACTCCAAGGCAGCATGTGGACGTCTTCTCCAGAAAATGGACAAAAT  
AAAGATGGCATCGTAACCTTAGATGAATTTCTTGAATCATGT CAGGAGGACGACAACATCATGAGGTCTC  
TCCAGCTGTTTCAAATGTCATG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

**Protein Sequence:** >RC236860 representing NM\_001278339  
Red=Cloning site Green=Tags(s)

MGAVMGT FSSLQTKQRRPSKDKIEDELEMTMVCHRPEGLEQLEAQTNFTKRELQVLYRGFKNECPSGVVN  
 EDTFKQIYAQFFPHGALPCLEGSPCVFLLPSPALLFCLVDASTYAHYLFNAFDTTQTGSVKFEDFVTAL  
 SILLRGTVHEKLRWTFNLVDINKDGYINKEEMMDIVKAIYDMMGKYTPVLKEDTPRHVDVFFQKMDKN  
 KDGIVTLDEFLESCQEDDNIMRSLQLFQNVN

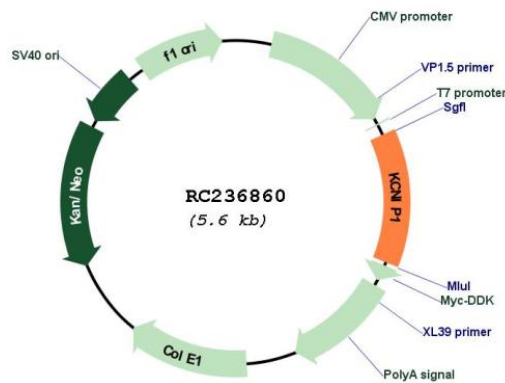
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001278339

**ORF Size:** 723 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001278339.2</a>
<b>RefSeq Size:</b>	2103 bp
<b>RefSeq ORF:</b>	726 bp
<b>Locus ID:</b>	30820
<b>UniProt ID:</b>	<a href="#">Q9NZI2</a>
<b>Cytogenetics:</b>	5q35.1
<b>Protein Families:</b>	Druggable Genome, Ion Channels: Other
<b>MW:</b>	28.3 kDa
<b>Gene Summary:</b>	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]