

Product datasheet for **RG236860**

KCNIP1 (NM_001278339) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCNIP1 (NM_001278339) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KCNIP1
Synonyms:	KCHIP1; VABP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG236860 representing NM_001278339. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGGGGCCGTGATGGGCACCTTCTCATCTCTGCAAACCAACAAAGGCGACCCTCGAAAGATAAGATT
GAAGATGAGCTGGAGATGACCATGGTTTGCCATCGGCCGAGGGACTGGAGCAGCTCGAGGCCAGACC
AACTTCACCAAGAGGGAGCTGCAGGTCCTTTATCGAGGCTTCAAAAATGAGTGCCCCAGTGGTGTGGTC
AACGAAGACACATTCAAGCAGATCTATGCTCAGTTTTTCCCTCATGGAGCCCTGCCTTGTTGGAAGGT
TCTCCCTGTGTGAATTCTGCCCCATCACCTGCCCTCCTTTTCTGCCTGTAGATGCCAGCACGTAT
GCCATTACCTCTCAATGCCTTCGACACCACTCAGACAGGCTCCGTGAAGTTCGAGGACTTTGTAACC
GCTCTGTCGATTTATTGAGAGGAACTGTCACGAGAACTAAGGTGGACATTTAATTTGTATGACATC
AAACAAGGACGGATACATAAACAAAGAGGAGATGATGGACATTGTCAAAGCCATCTATGACATGATGGGG
AAATACACATATCCTGTGCTCAAAGAGGACACTCCAAGGCAGCATGTGGACGTCTTCTCCAGAAAAATG
GACAAAAATAAGATGGCATCGTAACCTTATAGTGAATTTCTTGAATCATGTCAGGAGGACGACAACATC
ATGAGGTCTCTCCAGCTGTTTCAAATGTCATG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG236860
 Blue=ORF Red=Cloning site Green=Tag(s)

MGAVMGTFSSLQTKQRRPSKDKIEDELEMTMVCHRPEGLEQLEAQTNFTKRELQVLYRGFKNECPSGVV
 NEDTFKQIYAQFFPHGALPCLEGSPCVEFLPPSPALLFCLVDASTYAHYLFNAFDTTQTGSVKFEDFVT
 ALSILLRGTVHEKLRWTFNLVDINKDGYINKEEMDIVKAIYDMMGKYTPVLKEDTPRQHVDFVFFQKM
 DKNKDGIVTLDEFLESCQEDDNIMRSLQLFQNVN
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001278339

ORF Size: 723 bp

OTI Disclaimer: 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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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).

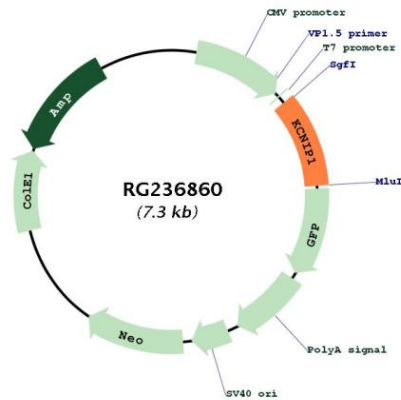
RefSeq: [NM_001278339.2](#)

RefSeq Size: 2103 bp

RefSeq ORF: 726 bp

Locus ID:	30820
UniProt ID:	Q9NZI2
Cytogenetics:	5q35.1
Protein Families:	Druggable Genome, Ion Channels: Other
MW:	28.3 kDa
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]

Product images:



Circular map for RG236860