

Product datasheet for RC211488

KCNIP4 (NM_025221) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCNIP4 (NM_025221) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KCNIP4
Synonyms:	CALP; KCHIP4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC211488 representing NM_025221 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGAATGTGAGGAGGGTGGAAAGCATTTCGGCTCAGCTGGAGGAGGCCAGCTCTACAGGCGGTTTCCTGT
 ACGCTCAGAACAGCACCAAGCGCAGCATTAAAGAGCGGCTCATGAAGCTTTGCCCTGCTCAGCTGCCAA
 AACGTCGTCCTCTGCTATTCAAACAGCGTGGAAGATGAACTGGAGATGGCCACCGTCAGGCATCGGCC
 GAAGCCCTTGAGCTTCTGGAAGCCAGAGCAAATTTACCAAGAAAGAGCTTCAGATCCTTTACAGAGGAT
 TTAAGAACGAATGCCCCAGTGGTGTGTTAATGAAGAAACCTTCAAAGAGATTTACTCGCAGTTCTTTCC
 ACAGGGGAGACTCTACAACATATGCACATTTTCTGTTCAATGCATTTGATACAGACCACAATGGAGCTGTG
 AGTTTCGAGGATTTTCATCAAAGGTCTTTCCATTTTGTCTCCGGGGGACAGTACAAGAAAACTCAATTGGG
 CATTAACTCTGTATGACATAAATAAAGATGGCTACATCACTAAAGAGGAAATGCTTGATATAATGAAAGC
 AATATACGATATGATGGGTAAATGTACATATCCTGTCTCAAAGAAGATGCTCCAGACAACACGTTGAA
 ACATTTTTTCAGAAAATGGACAAAAATAAAGATGGGGTTGTTACCATAGATGAGTTTCATTGAAAGCTGCC
 AAAAAGATGAAAACATAATGCGCTCCATGCAGCTCTTTGAAAATGTGATT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC211488 representing NM_025221
 Red=Cloning site Green=Tags(s)

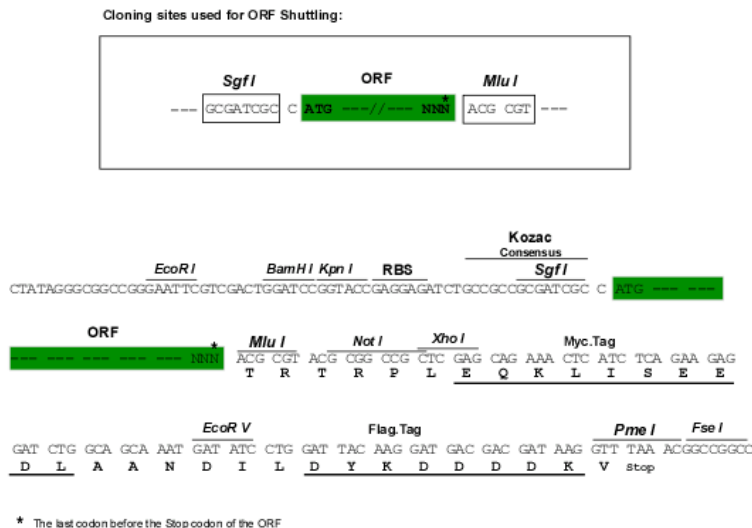
MNVRRVESISAQLEEASSTGGFLYAQNSTKRSIKERLMKLLPCSAAKTSSPAIQNSVEDELEMATVRHRP
 EALELLEAQSKFTKKELQILYRGFKNECPSGVVNEETFKEIYSQFFPQGDSTTYAHFLFNAFDTDHNGAV
 SFEDFIKGLSILLRGTVEKLNWAFNLYDINKDGYITKEEMLDIMKAIYDMMGKCTYPVLKEDAPRQHVE
 TFFQKMDKNKDGVVTTIDEFIESCQKDENIMRSMQLFENVI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6105_f10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_025221

ORF Size: 750 bp

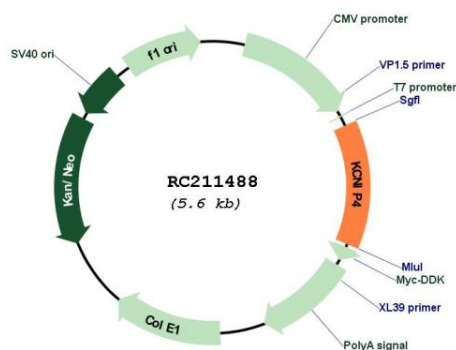
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

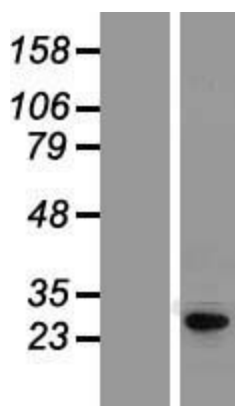
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:	<ol style="list-style-type: none"> 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_025221.3
RefSeq Size:	1556 bp
RefSeq ORF:	753 bp
Locus ID:	80333
UniProt ID:	Q6PIL6
Cytogenetics:	4p15.31-p15.2
Domains:	EFh
Protein Families:	Druggable Genome, Ion Channels: Other
MW:	28.5 kDa
Gene Summary:	<p>This gene encodes a member of the family of voltage-gated potassium (Kv) channel-interacting proteins (KCNIPs), which belong 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. This protein member also interacts with presenilin. Multiple alternatively spliced transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq, Jul 2008]</p>

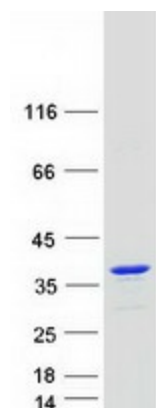
Product images:



Circular map for RC211488



Western blot validation of overexpression lysate (Cat# [LY410769]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211488 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified KCNIP4 protein (Cat# [TP311488]). The protein was produced from HEK293T cells transfected with KCNIP4 cDNA clone (Cat# RC211488) using MegaTran 2.0 (Cat# [TT210002]).