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Product datasheet for RC211613

KCNIP4 (NM_147183) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCNIP4 (NM_147183) 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:

>RC211613 representing NM_147183
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAACTTGGAAGGGCTTGAAATGATAGCAGTTCTGATCGTCATTGTGCTTTTTGTTAAATTATTGGAAC
AGTTTGGGCTGATTGAAGCAGGTTTAGAAGACAGCGTGGAAGATGAACTGGAGATGGCCACCGTCAGGCA
TCGGCCCGAAGCCCTTGAGCTTCTGGAAGCCCAGAGCAAATTTACCAAGAAAGAGCTTCAGATCCTTTAC
AGAGGATTTAAGAACGAATGCCCCAGTGGTGTTGTTAATGAAGAAACCTTCAAAGAGATTTACTCGCAGT
TCTTTCCACAGGGAGACTCTACAACATATGCACATTTTCTGTTCAATGCATTTGATACAGACCACAATGG
AGCTGTGAGTTTCGAGGATTTCATCAAAGGTCTTTCCATTTTGCTCCGGGGGACAGTACAAGAAAAACTC
AATTGGGCATTTAATCTGTATGACATAAATAAAGATGGCTACATCACTAAAGAGGAAATGCTTGATATAA
TGAAAGCAATATACGATATGATGGGTAAATGTACATATCCTGTCCTCAAAGAAGATGCTCCCAGACAACA
CGTTGAAACATTTTTTCAGAAAATGGACAAAAATAAAGATGGGGTTGTTACCATAGATGAGTTCATTGAA
AGCTGCCAAAAAGATGAAAACATAATGCGCTCCATGCAGCTCTTTGAAAATGTGATT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC211613 representing NM_147183
Red=Cloning site Green=Tags(s)

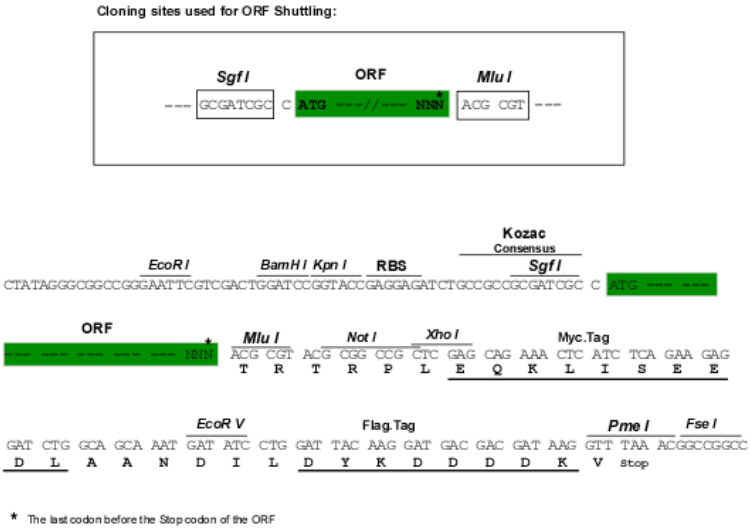
MNLEGLEMIAVLIVIVLFVKLLEQFGLIEAGLEDSVEDELEMATVRHRPEALELLEAQSKFTKKELQILY
RGFKNECPSGVVNEETFKEIYSQFFPQGDSTTYAHFLFNAFDTDHNGAVSFEDFIKGLSILLRGTVQEKL
NWAFNLYDINKDGYITKEEMLDIMKAIYDMMGKCTYPVLKEDAPRQHVETFFQKMDKNKDGVVTIDEFIE
SCQKDENIMRSMQLFENVI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6107_a07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_147183

ORF Size: 687 bp

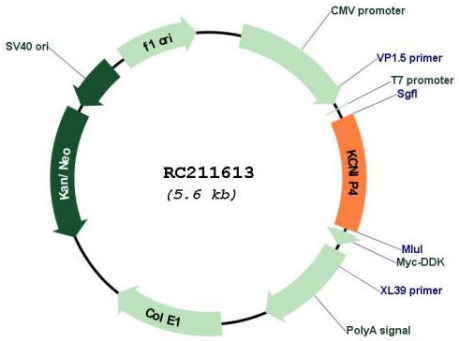
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially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

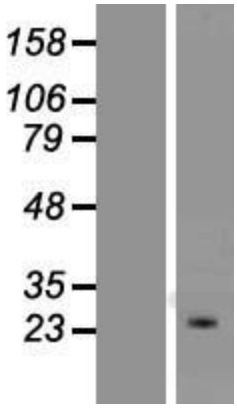
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:	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_147183.3
RefSeq Size:	1373 bp
RefSeq ORF:	690 bp
Locus ID:	80333
UniProt ID:	Q6PIL6
Cytogenetics:	4p15.31-p15.2
Domains:	EFh
Protein Families:	Druggable Genome, Ion Channels: Other
MW:	26.3 kDa
Gene Summary:	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]

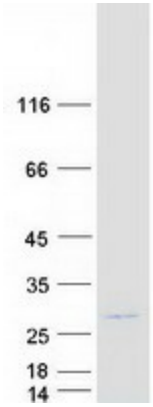
Product images:



Circular map for RC211613



Western blot validation of overexpression lysate (Cat# [LY407778]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211613 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified KCNIP4 protein (Cat# [TP311613]). The protein was produced from HEK293T cells transfected with KCNIP4 cDNA clone (Cat# RC211613) using MegaTran 2.0 (Cat# [TT210002]).