OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC211485

KChIP2 (KCNIP2) (NM_173197) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KChIP2 (KCNIP2) (NM_173197) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KChIP2
Synonyms:	KCHIP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC211485 representing NM_173197
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCGGGGCCAGGGCCGCAAGGAGAGTTTGTCCGATTCCCGAGACCTGGACGGCTCCTACGACCAGCTCA
CGGACAGCGTGGACGATGAATTTGAATTGTCCACCGTGTGTCACCGGCCTGAGGGTCTGGAGCAGCTGCA
GGAGCAAACCAAATTCACGCGCAAGGAGTTGCAGGTCCTGTACCGGGGCTTCAAGAACGAATGTCCCAGC
GGAATTGTCAATGAGGAGAACTTCAAGCAGATTTACTCCCAGTTCTTTCCTCAAGGAGACTCCAGCACCT
ATGCCACTTTTCTCTTCAATGCCTTTGACACCAACCATGATGGCTCGGTCAGTTTTGAGGAAATGCTTGA
CATCATGAAGTCCATCTATGACATGATGGGCAAGTACACGTACCCTGCACTCCGGGAGGAGGCCCCAAGG
GAACACGTGGAGAGCTTCTTCCAGAAGATGGACAGAAACAAGGATGGTGTGGTGACCATTGAGGAATTCA
TTGAGTCTTGTCAAAAGGTACAGCTCCCTGCCCTCTACATTACCCTGACCTGGACTCAGGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC211485 representing NM_173197
Red=Cloning site Green=Tags(s)

MRGQGRKESLSDSRDLDGSYDQLTDSVDDEFELSTVCHRPEGLEQLQEQTKFTRKELQVLYRGFKNECPS
GIVNEENFKQIYSQFFPQGDSSTYATFLFNAFDTNHDGSVSFEEMLDIMKSIYDMMGKYTYPALREEAPR
EHVESFFQKMDRNKDGVVTIEEFIESCQKVQLPALYITLTWTQA

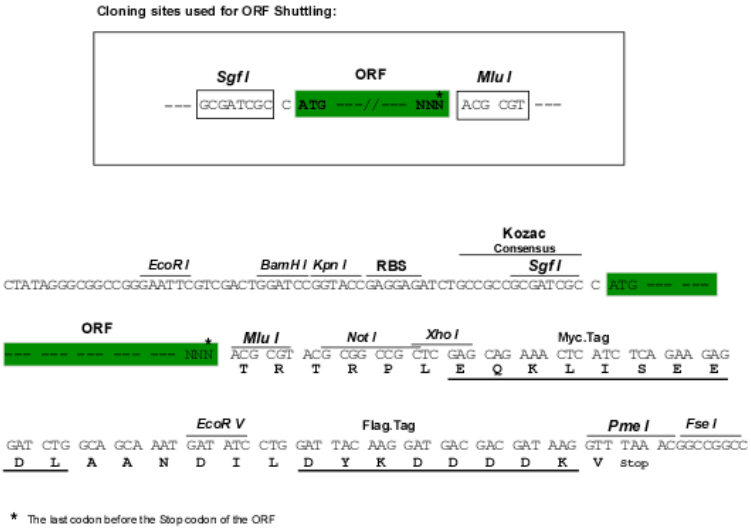
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1466_b07.zip

View online »

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_173197

ORF Size: 552 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

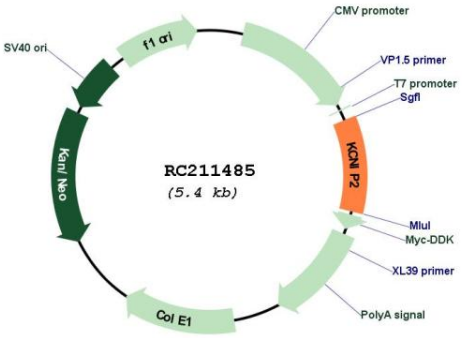
RefSeq: NM_173197.2, NP_775289.1

RefSeq Size: 907 bp

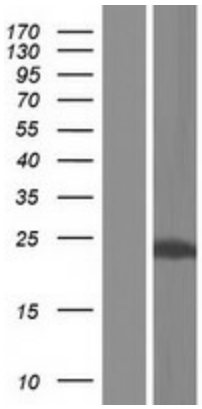
RefSeq ORF: 555 bp

Locus ID:	30819
UniProt ID:	Q9NS61
Cytogenetics:	10q24.32
Protein Families:	Druggable Genome, Ion Channels: Other
MW:	21.2 kDa
Gene Summary:	This gene encodes a member of the family of voltage-gated potassium (Kv) channel-interacting proteins (KCNIPs), which belongs 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. Multiple alternatively spliced transcript variants encoding distinct isoforms have been identified from this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC211485



Western blot validation of overexpression lysate (Cat# [LY406642]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211485 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).