

Product datasheet for **RC203823**

KCHIP2 (KCNIP2) (NM_173192) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCHIP2 (KCNIP2) (NM_173192) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KCNIP2
Synonyms:	KCHIP2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC203823 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGGGGCCAGGGCCGCAAGGAGAGTTTGTCCGATCCCGAGACCTGGACGGCTCTACGACCAGCTCA
CGGGCCACCCTCCAGGGCCCACTAAAAAGCGCTGAAGCAGCGATTCTCAAGCTGCTGCCGTGCTGCGG
GCCCAAGCCCTGCCCTCAGTCAGTGAAAACAGCGTGGACGATGAATTTGAATTGCCACCGTGTGTAC
CGGCTGAGGGTCTGGAGCAGCTGCAGGAGCAAACAAATTCACGCGCAAGGAGTTGCAGGTCTGTACC
GGGCTTCAAGAACGAATGTCCCAGCGGAATTGTCAATGAGGAGAACTTCAAGCAGATTTACTCCCAGTT
CTTTCTCAAGGAGACTCCAGCACCTATGCCACTTTTCTTTCAATGCCTTTGACACCAACCATGATGGC
TCGGTCAGTTTTGAGGACTTTGTGGCTGGTTTGTCCGTGATTCTTCGGGGAAGTGTAGATGACAGGCTTA
ATTGGCCTTCAACCTGTATGACCTTAACAAGGACGGCTGCATCACCAAGGAGGAAATGCTTGACATCAT
GAAGTCCATCTATGACATGATGGCAAGTACACGTACCCTGCACTCCGGGAGGAGGCCCAAGGGAACAC
GTGGAGAGCTTCTCCAGAAGATGGACAGAAACAAGGATGGTGTGGTGACCATTGAGGAATTCATTGAGT
CTTGTCAAAAGGATGAGAACATCATGAGGTCCATGCAGCTCTTTGACAATGTCATC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC203823 protein sequence
 Red=Cloning site Green=Tags(s)

MRGQGRKESLSDSRDLGSDYDQLTGHPGPTKALKQRFLKLLPCCGPQALPSVSENSVDDEFELSTVCH
 RPEGLEQLQEQTFRKELQVL YRGFKNECPGSI VNEENFKQIYSQFFPQGDSSTYATFLFNAFDTNHDG
 SVSFEDFVAGLSVILRGTVDDRNLWAFNLYDLNKDGCITKEEMLDIMKSIYDMMGKYTPALREEAPREH
 VESFFQKMDRNKDGVVITIEEFIESCQKDENIMRSMQLFDNVI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

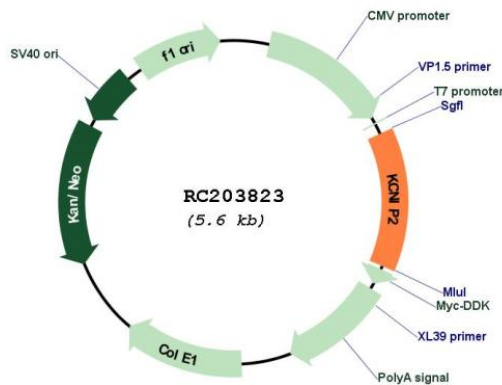
Chromatograms: https://cdn.origene.com/chromatograms/mk6323_f03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

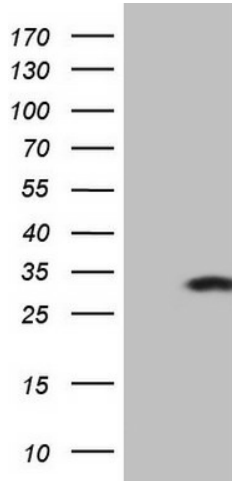


Plasmid Map:

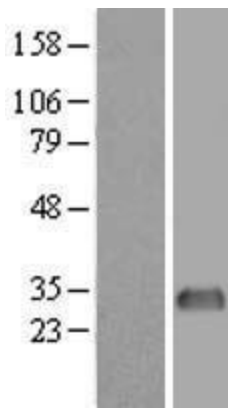


ACCN: NM_173192

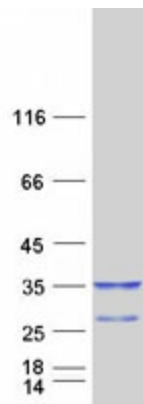
ORF Size:	756 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. 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_173192.2 , NP_775284.1
RefSeq Size:	2509 bp
RefSeq ORF:	759 bp
Locus ID:	30819
UniProt ID:	Q9NS61
Cytogenetics:	10q24.32
Protein Families:	Druggable Genome, Ion Channels: Other
MW:	28.9 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:


HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY KCINIP2 (Cat# RC203823, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-KCINIP2 (Cat# [TA807375]). Positive lysates [LY406638] (100ug) and [LC406638] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY406638]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203823 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified KCINIP2 protein (Cat# [TP303823]). The protein was produced from HEK293T cells transfected with KCINIP2 cDNA clone (Cat# RC203823) using MegaTran 2.0 (Cat# [TT210002]).