

Product datasheet for MR228612

Kcnip4 (NM_001199244) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Kcnip4 (NM_001199244) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Kcnip4
Synonyms: AV032399; Calp; Calp250; KChIP4; KChIP4a
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR228612 representing NM_001199244
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGTGGCTGTAGGAAACGGTGTAAACGTGAAATATTGAAATTTGCCAGTACCTTCTCAGGCTATTAA
CAGGTTCTTTCATACAGACAGCGTGGAAGATGAGCTGGAGATGGCTACTGTGAGGATCGGCCTGAAGC
CCTGGAGCTGCTGGAGGCCAGAGCAAATTCACCAAGAAAGAGCTCAGATTCTTTACAGAGGATTTAAG
AATGAATGCCCCAGTGGTGTGTTAATGAAGAACTTTCAAGGAGATTTACTCACAGTTCTTTCCACAGG
GAGACTCCACCACATATGCACATTTTCTTCAATGCATTGACACGGACCACAATGGAGCTGTGAGCTT
TGAGGATTTTCATCAAAGGTCTTTCCATTTTGTCTCGAGGGACAGTACAAGAAAACTCAACTGGGCATTT
AATTTGTATGACATAAACAAAGATGGCTACATCACTAAAGAAGAAATGCTGGACATAATGAAAGCAATCT
ACGACATGATGGGAAATGCACATACCCGGTCTCAAGGAAGATGCTCCCGACAGCATGTGGAGACGTT
CTTCCAGAAGATGGACAAAAATAAAGATGGTGTGCTTACCATAGATGAGTTCATTGAAAGTTGCCAAAA
GATGAAAACATAATGCGCTCCATGCAGCTCTTTGAAAATGTGATC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR228612 representing NM_001199244
 Red=Cloning site Green=Tags(s)

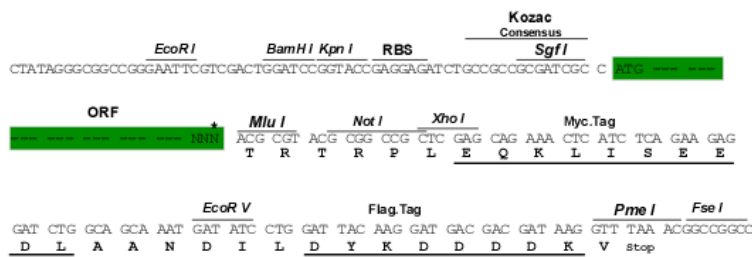
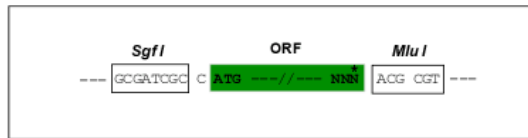
MSGCRKRCKREILKFAQYLLRLLTGLSHTDSVEDELEMATVRRHPEALELLEAQSFKTKKELQILYRGFK
 NECPSGVVNEETFKEIYSQFFPQGDSTTYAHFLFNAFDTDHNGAVSFEDFIKGLSILLRGTVQEKLNWAF
 NLYDINKDGYITKEEMLDIMKAIYDMMGKCTYPVLKEDAPRQHVETFFQKMDKNKDGVTVIDEFIESCQK
 DENIMRSMQLFENVI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

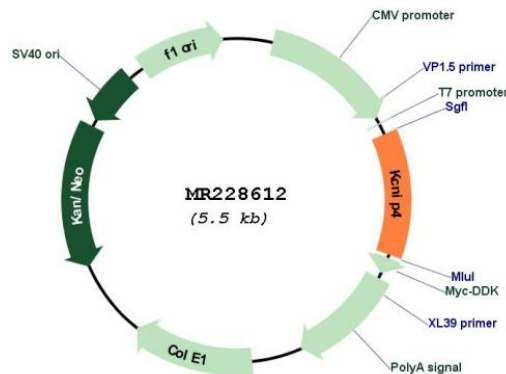
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001199244

ORF Size: 675 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_001199244.1 , NP_001186173.1
RefSeq Size:	2403 bp
RefSeq ORF:	678 bp
Locus ID:	80334
Cytogenetics:	5 B3
MW:	26.7 kDa
Gene Summary:	Regulatory subunit of Kv4/D (Shal)-type voltage-gated rapidly inactivating A-type potassium channels, such as KCND2/Kv4.2 and KCND3/Kv4.3 (PubMed:19109250). Modulates channel expression at the cell membrane, gating characteristics, inactivation kinetics and rate of recovery from inactivation in a calcium-dependent and isoform-specific manner. [UniProtKB/Swiss-Prot Function]