

Product datasheet for MR228567

Kcnip4 (NM_001199243) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Kcnip4 (NM_001199243) 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: >MR228567 representing NM_001199243
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAACGTGAGAAGGGTGGAAAGCATCTCGGCTCAGCTGGAGGAGCGAGCTCCACAGGCGACAGCGTGG
AAGATGAGCTGGAGATGGCTACTGT CAGGCATCGGCCTGAAGCCCTGGAGCTGCTGGAGGCCAGAGCAA
ATTCACCAAGAAAGAGCTTCAGATTCTTTACAGAGGATTTAAGAATGAATGCCCCAGTGGTGTGTTAAT
GAAGAACTTTCAAGGAGATTTACTCACAGTCTTTCCACAGGGAGACTCCACCACATATGCACATTTTC
TCTTCAATGCATTCGACACGGACCACAATGGAGCTGTGAGCTTTGAGGATTTTCATCAAAGTCTTTCCAT
TTTGCTTCGAGGGACAGTACAAGAAAACTCAACTGGGCATTTAATTTGTATGACATAAACAAAGATGGC
TACATCACTAAAGAAGAAATGCTGGACATAATGAAAGCAATCTACGACATGATGGGGAAATGCACATACC
CGGTCCTCAAGGAAGATGCTCCCCGACAGCATGTGGAGACGTTCTTCCAGAAGATGGACAAAAATAAGA
TGGTGTGTTACCATAGATGAGTTCATTGAAAGTTGCCAAAAAGATGAAAACATAATGCGCTCCATGCAG
CTCTTTGAAAATGTGATC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR228567 representing NM_001199243
 Red=Cloning site Green=Tags(s)

MNVRVESISAQLEEASSTGDSVEDELEMATVRRPEALELLEAQSKFTKKELQILYRGFKNECPSGVVN
 EETFKEIYSQFFPQGDSTTYAHFLFNAFDTDHNGAVSFEDFIKGLSILLRGTVQEKLNWAFNLYDINKDG
 YITKEEMLDIMKAIYDMMGKCTYPVLKEDAPRQHVETFFQKMDKNKDGVTIDEFIESCQKDENIMRSMQ
 LFENVI

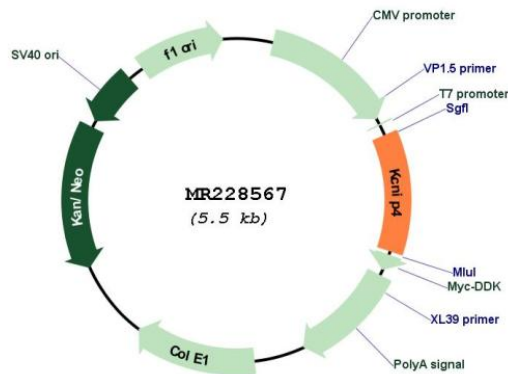
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001199243

ORF Size: 648 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_001199243.1 , NP_001186172.1
RefSeq Size:	2260 bp
RefSeq ORF:	651 bp
Locus ID:	80334
UniProt ID:	Q6PHZ8
Cytogenetics:	5 B3
MW:	25.5 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]