

Product datasheet for MR228370

Kcnip1 (NM_001290690) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Kcnip1 (NM_001290690) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Kcnip1
Synonyms: KCHIP1; Kchip1.2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR228370 representing NM_001290690
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGACCATGGTTTCCACCGCCTGAGGGACTGGAGCAGCTTGAGGCACAGACGAACTTCACCAAGAGAG
 AACTGCAAGTCTGTACCGGGGATTCAAAAACGAGTGCCTAGCGGTGTGGTCAATGAAGAAACATTCAA
 GCAGATCTACGCTCAGTTTTTCCCTCACGGAGATGCCAGCACATATGCACATTACCTCTCAATGCCTTC
 GACACCACCCAGACAGGCTCTGTAAAGTTCGAGGACTTTGTGACTGCTCTGTCGATTTTACTGAGAGGGA
 CAGTCCATGAAAACTAAGGTGGACGTTAATTTGTATGACATCAATAAAGACGGCTACATAAACAAAGA
 GGAGATGATGGACATAGTCAAAGCCATCTATGACATGATGGGAAATACACCTATCCTGTGCTCAAAGAG
 GACTCCAGGCAGCATGTGGATGTCTTCCAGAAAATGGATAAAAAATAAGATGCCATTGTAACGT
 TAGATGAATTTCTTGAATCATGTGAGGAGATGACAACATCATGAGATCTCTACAGCTGTCCAAAATGT
 CATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR228370 representing NM_001290690
 Red=Cloning site Green=Tags(s)

MTMVCHRPEGLEQLEAQTNFTKRELQVL YRGFKNECPSGVVNEETFQKIYAQFFPHGDASTYAHYLFNAF
 DTTQTGSVKFEDFVTALSILLRGTVHEKLRWTFNLYDINKDGYINKEEMMDIVKAIYDMMGKYTPVLKE
 DTPRQHVDFVFQKMDKNKDGIVTLDEFLESCQEDDNIMRSLQLFQNVN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

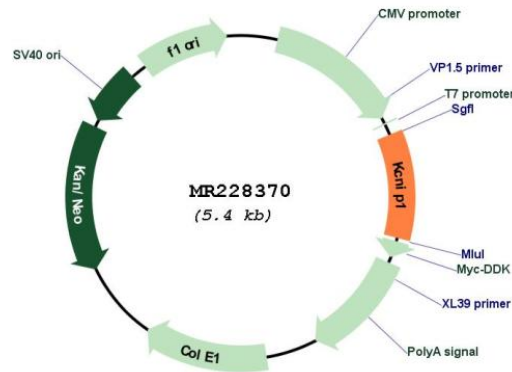


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001290690

ORF Size: 564 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_001290690.2](#)

RefSeq Size: 2005 bp

RefSeq ORF: 567 bp

Locus ID: 70357

UniProt ID: [Q9JJ57](#)

Cytogenetics: 11 A4

MW: 22.5 kDa

Gene Summary: Regulatory subunit of Kv4/D (Shal)-type voltage-gated rapidly inactivating A-type potassium channels. Regulates channel density, inactivation kinetics and rate of recovery from inactivation in a calcium-dependent and isoform-specific manner. Modulates KCND2/Kv4.2 currents (PubMed:14572458). In vitro, modulates KCND1/Kv4.1 currents (By similarity). Increases the presence of KCND2 at the cell surface.[UniProtKB/Swiss-Prot Function]