

## Product datasheet for MR203186

### Kcnip4 (BC051130) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnip4 (BC051130) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kcnip4
Synonyms:	KChIP4, Calp250, Calp
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203186 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAACGTGAGAAGGGTGGAAAGCATCTCGGCTCAGCTGGAGGAGGCGAGCTCCACAGGCGGTTTCCTCT  
ACGCGCAGAACAACACCAAGCGCAGCATTAAAGAGCGGCTCATGAAGCTTTGCCCTGCTCAGCTGCCAA  
AACGTCGTCTCCTGCTATTCAAACAGCGTGGAAGATGAGCTGGAGATGGCTACTGTCAGGCATCGGCCT  
GAAGCCCTGGAGCTGCTGGAGGCCAGAGCAAATTCACCAAGAAAGAGCTTCAGATTCTTACAGAGGAT  
TTAAGAATGAATGCCCCAGTGGTGTGTTAATGAAGAACTTTCAAGGAGATTTACTCACAGTTCTTTCC  
ACAGGGAGACTCCACCACATATGCACATTTTCTTCAATGCATTGACACGGACCAACAATGGAGCTGTG  
AGCTTTGAGGATTTATCAAAGGTCTTTCCATTTTGCTTCGAGGGACAGTACAAGAAAACTCAACTGGG  
CATTTAATTTGTATGACATAAACAAAGATGGCTACATCACTAAAGAAGAAATGCTGGACATAATGAAAGC  
AATCTACGACATGATGGGAAATGCACATACCCGGTCTCAAGGAAGATGCTCCCCGACAGCATGTGGAG  
ACGTTCTCCAGAAGATGGACAAAAATAAAGATGGTGTGTTACCATAGATGAGTTTCATTGAAAGTTGCC  
AAAAAGATGAAAACATAATGCGCTCCATGCAGCTCTTTGAAAATGTGATC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR203186 protein sequence  
Red=Cloning site Green=Tags(s)

```
MNVRRVESISAQLEEASSTGGFLYAQNNTKRSIKERLMKLLPCSAAKTSSPAIQNSVEDELEMATVRHRP
EALELLEAQSKFTKKELQILYRFGKNECPSGVVNEETFKEIYSQFFPQGDSTTYAHFLFNAFDTDHNGAV
SFEDFIKGLSILLRGTVQEKLNWAFNLYDINKDGYITKEEMLDIMKAIYDMMGKCTYPVLKEDAPRQHVVE
TFFQKMDKNKDGVVTTIDEFIESCQKDENIMRSMQLFENVI
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** BC051130

**ORF Size:** 750 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:** [BC051130](#), [AAH51130](#)

**RefSeq Size:** 2392 bp

**RefSeq ORF:** 752 bp

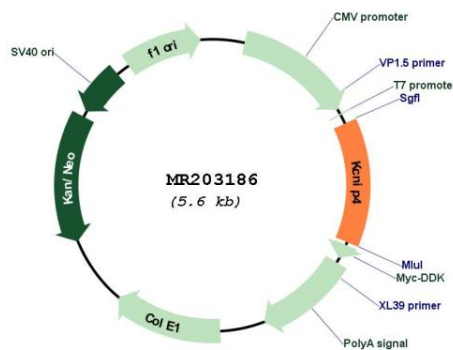
**Locus ID:** 80334

**Cytogenetics:** 5 B3

**MW:** 28.8 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]

### Product images:



Circular map for MR203186