

## Product datasheet for **MG227378**

### Kcnip4 (NM\_030265) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnip4 (NM_030265) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Kcnip4
Synonyms:	AV032399; Calp; Calp250; KChIP4; KChIP4a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG227378 representing NM_030265 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAGCTGGAGGGCTTGAATGATAGCAGTTCTGATCGTCATTGTGCTTTTTGTTAAATTATTGGAAC  
AGTTTGGGCTGATTGAAGCAGGTTTAGAAGACAGCGTGAAGATGAGCTGGAGATGGCTACTGTCAGGCA  
TCGGCCTGAAGCCCTGGAGCTGCTGGAGGCCAGAGCAAATTCACCAAGAAAGAGCTTCAGATTCTTTAC  
AGAGGATTTAAGAATGAATGCCCCAGTGGTGTGTTAATGAAGAACTTTCAAGGAGATTTACTCACAGT  
TCTTTCCACAGGGAGACTCCACCACATATGCACATTTTCTTTCAATGCATTCGACACGGACCACAATGG  
AGCTGTGAGCTTTGAGGATTTCAACAAAGTCTTTCCATTTTGCTTCGAGGGACAGTACAAGAAAACTC  
AACTGGGCATTTAATTTGTATGACATAAAACAAAGATGGCTACATCACTAAAGAAGAAATGCTGGACATAA  
TGAAAGCAATCTACGACATGATGGGAAATGCACATACCCGGTCTCAAGGAAGATGCTCCCGACAGCA  
TGTGGAGACGTTCTCCAGAAGATGGACAAAAATAAAGATGGTGTGCTTACCATAGATGAGTTTCATTGAA  
AGTTGCCAAAAAGATGAAAACATAATGCGCTCCATGCAGCTCTTTGAAAAATGTGATC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG227378 representing NM\_030265  
Red=Cloning site Green=Tags(s)

MNLEGLEMIAVLIVIVL FVKLLEQFGLIEAGLEDSVEDELEMATVRRRPEALELLEAQSFKFKELQILY  
 RGFKNECPSGVVNEETFKEIYSQFFPQGDSTTYAHFLFNAFDTDHNGAVSFEDFIKGLSILLRGTVQEKL  
 NWAFLNYDINKDGYITKEEMLDIMKAIYDMMGKCTYPVLKEDAPRQHVETFFQKMDKNKDGVVITDEFIE  
 SCQKDENIMRSMQLFENVI

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_030265

**ORF Size:** 687 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\\_030265.3](#), [NP\\_084541.3](#)

**RefSeq Size:** 2188 bp

**RefSeq ORF:** 690 bp

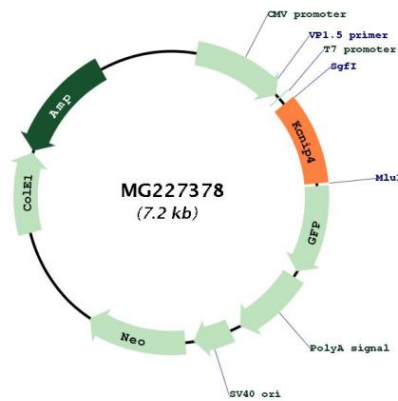
**Locus ID:** 80334

**UniProt ID:** [Q6PHZ8](#)

**Cytogenetics:** 5 B3

**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 MG227378