

## Product datasheet for **RG216528**

### KCNIP4 (NM\_147182) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** KCNIP4 (NM\_147182) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** KCNIP4  
**Synonyms:** CALP; KCHIP4  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG216528 representing NM\_147182  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCCACCGTCAGGCATCGGCCTGAAGCCCTTGAGCTTCTGGAAGCCCAGAGCAAATTTACCAAGAAAG  
 AGCTTCAGATCCTTTACAGAGGATTTAAGAATGAATGCCCCAGTGGTGTGTTAATGAAGAAACCTTCAA  
 AGAGATTTACTCGCAGTTCTTTCCACAGGGAGACTCTACAACATATGCACATTTTCTGTTCAATGCATTT  
 GATACAGACCACAATGGAGCTGTGAGTTTCGAGGATTTTCATCAAAGGTCTTTCCATTTTGTCCGGGGGA  
 CAGTACAAGAAAACCAATTGGGCATTTAATCTGTATGACATAAATAAAGATGGCTACATCACTAAAGA  
 GGAAATGCTTGATATAATGAAAGCAATATACGATATGATGGGTAATGTACATATCCTGTCTCAAAGAA  
 GATGCTCCAGACAACACGTTGAAACATTTTTTCAGAAAATGGACAAAAATAAAGATGGGGTTGTTACCA  
 TAGATGAGTTTCATTGAAAGCTGCCAAAAAGATGAAAACATAATGCGCTCCATGCAGCTCTTTGAAAATGT  
 GATT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG216528 representing NM\_147182  
 Red=Cloning site Green=Tags(s)

MATVRRHPEALELLEAQSFKTKKELQILYRQFKNECPGTVVNEETFKIYSQFFPQGDSTTYAHFLFNAP  
 DTDHNGAVSFEDFIKGLSILLRGTVQEKLNWAFNLYDINKDGYITKEEMLDIMKAIYDMMGKCTYPVLKE  
 DAPRQHVETFFQKMDKNKDGVTIDEFIESCQKDENIMRSMQLFENVI

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** SgfI-MluI





**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\\_147182.3](#), [NP\\_671711.1](#)

**RefSeq Size:** 2371 bp

**RefSeq ORF:** 567 bp

**Locus ID:** 80333

**UniProt ID:** [Q6PIL6](#)

**Cytogenetics:** 4p15.31-p15.2

**Protein Families:** Druggable Genome, Ion Channels: Other

**Gene Summary:** This gene encodes a member of the family of voltage-gated potassium (Kv) channel-interacting proteins (KCNIPs), which belong to the recoverin branch of the EF-hand superfamily. Members of the KCNIP family are small calcium binding proteins. They all have EF-hand-like domains, and differ from each other in the N-terminus. They are integral subunit components of native Kv4 channel complexes. They may regulate A-type currents, and hence neuronal excitability, in response to changes in intracellular calcium. This protein member also interacts with presenilin. Multiple alternatively spliced transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq, Jul 2008]