

Product datasheet for **MC219227**

Cnga4 (NM_001033317) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cnga4 (NM_001033317) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cnga4
Synonyms:	MGC130316
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC219227 representing NM_001033317
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGCCAGGACAGCAAAGTGAAGACAACAGAGTCCACGCCCCAGCCCCAACCAAAGCCAGGAAGTGGC
 TGCCAGTCTAGACCCATCTGGGGATTATTACTACTGGTGGCTGAACACGATGGTCTTCCAATCATGTA
 TAATCTCATCATCGTTGTATGCAGGGCCTGCTTTCCTGACTTGCAACACAGTTACCTGGTGGCCTGGTTT
 GTGCTGGACTACAGAGTGACCTGCTGTACCTACTAGATATTGGGGTACGCTTCCACACAGGATTCTAG
 AACAGGGCATCTGGTGGTAGACAAAAGCATGATCGCCAGTCGCTATGTACGCACCTGGAGCTTCTGTT
 GGACCTGGCTTCCCTGGTCCCCACAGATGCAGCCTACGTGCAGCTAGGCCCCACATCCCTACACTCCGG
 CTA AACCGCTTCTCCGAGTGCCTCGCCTCTTTGAGGCTTTCGACCGTACAGAGACCCGCACAGCTTACC
 CAAATGCCTTCCGCATAGCCAAGCTGATGATCTACATTTTGTGTCATCCATTGGAACAGCTGCTTATA
 CTTCCGCTGTCCAGGTACCTGGGCTTCGGACGGGATGCATGGGTATACCCAGACCCTGCGCAGCCTGGC
 TTTGAGCGCTTGGCGGCCAGTATCTCTACAGCTTCTACTTCTCCACTCTGATCCTGACCACTGTGGGTG
 ACACACCCTGCCAGCCGAGAGGAAGAGTACCTCTTCATGGTGGTGGTACTTCTGCTGGCCGTCATGGG
 TTTCCGCCACCATCATGGGTAGCATGAGCTCTGTCAATTTACAACATGAACACGGCAGATGCAGCCTTCTAC
 CCAGACCATGCTCTGGTAAAGAAATACATGAAGCTACAGCACGTCAACCGAAGGCTGGAGCGGCCGCTTA
 TTGACTGGTACCAGCATCTGCAGATCAACAAGAAGATGACCAATGAGGTAGCCATCTTGCAGCACTTGGC
 TGAGCGGCTGCGGGCAGAGGTGCTGTATCCGTACACCTGTCTACCCTGAGCCGAGTACAGATCTCCAG
 AACTGTGAAGCCAGCCTGCTGGAAGAGCTGGTGTAAAGCTCCAGCCCCAGACCTACTCACCAGGCGAAT
 ACGTATGCCGCAAAGGGGACATTGGCCGAGAGATGTACATCCGCGAGGGCCAGCTGGCTGTGGTGGC
 AGATGACGGTGTACACAGTATGCTGTGCTTGGTGCAGGGCTCTACTTTGGGGAGATTAGCATCATCAAC
 ATCAAAGGGAACATGTCTGGAACCCGACGAACAGCTAACATCAAGAGCCTGGGCTATTACAGCCTTCTCT
 GCCTCAGCAAGGAGGATCTACGGGAGGTGCTGAGTGAGTACCCACAGGCCAGGCAGTATGGAGGAGAA
 GGGCCGTGAAATCTTGCTCAAAATGAATAAATTGGATGTGAATGCTGAGGCAGCTGAGATCGCCCTCCAG
 GAGGCCACAGAGTCTCGGCTGAAAGGCCTCGACCAGCAGCTTGTGACCTACAGACCAAGTTTGTCTCGCC
 TCCTGGCTGAGCTGGAGTCCAGCGCACTGAAGTAGCTTACCGCATTGAAAGGCTGGAGTGGCAGACTCG
 AGAGTGGCCGATGCCAGACGACATGGGTGAGGCTGATGATGAGGCTGAGCCTGGAGAAGGAACGTCCAAG
 GATGGAGAGGAAAAGCTGGCCAGGAGGACCCTCAGGCCTAGAA**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001033317
- Insert Size:** 1728 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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_001033317.3](#), [NP_001028489.1](#)

RefSeq Size: 2480 bp

RefSeq ORF: 1728 bp

Locus ID: 233649

UniProt ID: [Q3UW12](#)

Cytogenetics: 7 E3

Gene Summary: Second messenger, cAMP, causes the opening of cation-selective cyclic nucleotide-gated (CNG) channels and depolarization of the neuron (olfactory sensory neurons, OSNs). CNGA4 is the modulatory subunit of this channel which is known to play a central role in the transduction of odorant signals and subsequent adaptation. By accelerating the calcium-mediated negative feedback in olfactory signaling it allows rapid adaptation to odor stimulation and extends its range of odor detection.[UniProtKB/Swiss-Prot Function]