

Product datasheet for **RC218174**

CNGA4 (NM_001037329) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CNGA4 (NM_001037329) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CNGA4
Synonyms:	CNCA2; CNG-4; CNG4; CNG5; CNGB2; OCNC2; OCNCb; OCNCBETA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC218174 representing NM_001037329
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGCCAGGACACCAAAGTGAAGACAACAGAGTCCAGTCCCCAGCCCCATCCAAGGCCAGGAAGTTGC
 TGCTGTCTGGACCCATCTGGGATTACTACTACTGGTGGCTGAACACAATGGTCTTCCAGTCATGTA
 TAACCTCATCATCCTCGTGTGCAGAGCCTGCTTCCCCGACTTGCAGCACGGTTATCTGGTGGCCTGGTTG
 GTGCTGGACTACAGAGTGACCTGCTATACCTACTAGACATGGTGGTGCCTTCCACACAGGATTCTTGG
 AACAGGGCATCCTGGTGGTGGACAAGGGTAGGATCTCGAGTCGCTACGTTTCGCACCTGGAGTTTCTTCTT
 GGACCTGGCTTCCCTGATGCCACAGATGTGGTCTACGTGCGGCTGGGCCGCACACACCCACCCTGAGG
 CTGAACCGCTTTCTCCGCGCGCCCGCCTCTTCGAGGCCTTCGACCGCACAGAGACCCGCACAGCTTACC
 CAAATGCCTTTTCGATTGCCAAGCTGATGCTTTACATTTTGTGTCATCCATTGGAACAGCTGCCTATA
 CTTTGCCCTATCCCGGTACCTGGGCTTCGGGCGTGACGCATGGGTGTACCCGGACCCCGCAGCCTGGC
 TTTGAGCGCTGCGGCGCCAGTACCTCTATAGCTTTTACTTCTCCACGCTGATACTGACTACAGTGGGCG
 ATACACCGCCGCCAGCCAGGGAAGAAGAGTACCTCTTATGGTGGGCGACTTCTGCTGGCCGTCATGGG
 TTTGCCACCATCATGGGTAGCATGAGCTCTGTACATCTACAACATGAACACTGCAGATGGGCTTTCTAC
 CCAGATCATGCACTGGTGAAGAAGTACATGAAGCTGCAGCACGTCAACCGCAAGCTGGAGCGGCGAGTTA
 TTGACTGGTATCAGCACCTGCAGATCAACAAGAAGATGACCAACGAGGTAGCCATCTTACAGCACTTGCC
 TGAGCGGCTGCGGCGAGAAGTGGCTGTCTGTGCACCTGTCCACTCTGAGCCGGTGCAGATCTTTCAG
 AACTGTGAGGCCAGCCTGCTGGAGGAGCTGGTGTGAAGCTGCAGCCCCAGACCTACTCACCAGGTGAAT
 ATGTATGCCGCAAAGGAGACATTGGCCAAGAGATGTACATCCGAGAGGGTCAACTGGCCGTGGTGGC
 AGATGATGGTATCACACAGTATGCTGTGCTCGGTGCAGGCTCTACTTTGGGGAGATCAGCATCATCAAC
 ATCAAAGGGAACATGTCTGGGAACCGCCGCACAGCCAACATCAAGAGCCTAGTTATTACAGCCTATTCT
 GCCTGAGCAAGGAGACCTGCGGAGGTGCTGAGCGAGTATCCACAAGCACAGACCATCATGGAGGAGAA
 AGGACGTGAGATCCTGCTGAAAATGAACAAGTTGGACGTGAATGCTGAGGCAGCTGAGATCGCCCTGCAG
 GAGGCCACAGAGTCCCGCTACGAGGCCTAGACCAGCAGCTGGATGATCTACAGACCAAGTTTGTCTCGCC
 TCCTGGCTGAGCTGGAGTCCAGCGCACTAAGATTGCTTACCGCATTGAACGGCTGGAGTGGCAGACTCG
 AGAGTGGCCAATGCCGAGGACCTGGCTGAGGCTGATGACGAGGGTGAGCCTGAGGAGGGAACCTCCAAA
 GATGAAGAGGGCAGGGCCAGCCAGGAGGACCCCAAGTCCAGAG

ACGCGTACGCGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC218174 representing NM_001037329
 Red=Cloning site Green=Tags(s)

MSQDTKVKTTSSPPAPSKARKLLPVLDPSPGDYIYWLNMTMVFVPMYNIILVCRACFPDLQHGYLVAWL
 VLDYTSDLLYLDMVRFHTGFLEQGILVVDKGRISRYVRTWSFFLDLASEMPTDVVYVRLGPHTPTLR
 LNRFLRAPRLFADFRTETRTAYPNAFRIAKMLYIFVVIHWNLSLYFALSRYLGFGRDAWVYPDPAQPG
 FERLRQYLYSFYFSTLILTTVGDTPPPAREEEYLFMVGDFLLAVMGFATIMGSMSSVIYNMNTADAAFY
 PDHALVKKYMQLQHVNRKLERRVIDWYQHLQINKKMTNEVAILQHLPERLRAEVAVSVHLSTLSRVQIFQ
 NCEASLLEELVLKLPQTYSPGEYVCRKGDIGQEMYIIREGQLAVVADDGITQYAVLGAGLYFGEISIIIN
 IKGNMSGNRRRTANIKSLGYSDLFCLSKEDLREVLSEYPQAQTIMEEKGREILLKMNKLDVNAEAEIALQ
 EATESRLRGLDQQLDDLQTKFARLLAELESSALKIAYRIERLEWQTREWPMPEDLAEADDEGEPEEGTSK
 DEEGRASQEGPPGPE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8004_h03.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001037329

ORF Size: 1725 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_001037329.4](#)

RefSeq Size: 1851 bp

RefSeq ORF: 1728 bp

Locus ID: 1262

UniProt ID: [Q8IV77](#)

Cytogenetics: 11p15.4

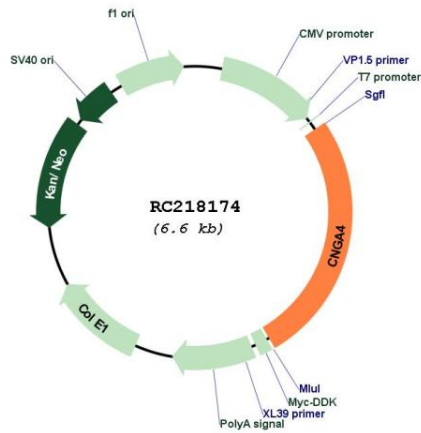
Protein Families: Druggable Genome, Ion Channels: Cyclic nucleotide gated, Transmembrane

Protein Pathways: Olfactory transduction

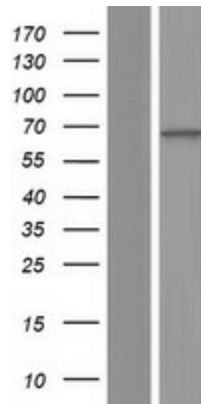
MW: 65.8 kDa

Gene Summary: CNGA4 is a modulatory subunit of vertebrate cyclic nucleotide-gated membrane channels that transduce odorant signals (Munger et al., 2001 [PubMed 11739959]).[supplied by OMIM, Mar 2008]

Product images:



Circular map for RC218174



Western blot validation of overexpression lysate (Cat# [LY421949]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC218174 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).