

## Product datasheet for **MG209871**

### **Cnga2 (NM\_007724) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cnga2 (NM_007724) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cnga2
Synonyms:	Cn; Cnca; Cncg; Cncg4; CNG2; OCN; OCNC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide  
Sequence:

>MG209871 representing NM\_007724  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGATGACCGAAAAATCCAACGGTGTGAAGAGCTCTCCAGCTAATAACCATAACCATCATCTCCTCCTT  
CTATCAAGGCCAATGGCAAAGATGACCACAGGGCAGGTAGCAGACCACAGTCTGTGGCAGCTGATGATGA  
CACTTCTCAGAACTGCAAAGTTGGCAGAGATGGATACTCCACGCAGGGGAAGGGTGGCTTCCGAAGG  
ATTGTCCGCCTGGTGGGATCATCAGAGACTGGCCAACAAAAATTTCCGTGAGGAGGAACCAAGACCTG  
ACTCCTTCTAGAGCGTTTCCGTGGCCTGAGCTCCAGACTGTGACAACCCATCAGGGGGATGGCAAAGG  
CGACAAGGACGGCGAGGGAAAGGGCACCAAAAAGAAATTTGAACTGTTTGTGGACCCAGCTGGAGAC  
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CCTGCTCAGTGATCTACAGAGAACTATTTGTGGTATGGCTGGTGTGCTGGATTACTTCTCAGACACTGT  
TTATATTGCAGACCTCATATTCGGCTGCGCACAGGCTTCTAGAACAAAGGGCTCCTGGTCAAAGACCCC  
AAGAAATTGCGAGACAACATATCCACACTTTGCAGTTCAAATGGATGTGGCTTCTATCATCCCCACTG  
ACCTCATTATTTTGTGTGGTATCCACAGCCCTGAGGTACGCTTTAATCGTCTGTTACACTTTGCCCG  
TATGTTTGAGTCTTTGACCGCACTGAGACACGTACAAGTACCCCAACATCTTCCGAATCAGCAACCTG  
GTCCTCTACATCTTGGTCATCATCCACTGGAATGCTTGTATTTACTATGCTATCTCTAAGTCCATTGGCT  
TTGGGGTTGACACCTGGGTTTACCCCAACATTACTGACCTGAATATGGTACCTGGCTAGGGAGTACAT  
TACTGCCTTTACTGGTCCACTGACCCTCACCACCATTTGGAGAGACACCACCCCTGTAAAGGATGAG  
GAGTACCTATTTGTCATCTTTGACTTCTGATTGGTGCCTCATCTTTGCCACTATTGTGGGAAATGTGG  
GCTCCATGATCTCCAACATGAATGCCACACGAGCAGAGTCCAGGCCAAGATTGATGCTGTCAAACACTA  
CATGCAGTTCCGAAAGGTCAGTAAAGACATGGAAGCCAAGGTCATCAAATGGTTTGACTACTTGTGGACC  
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GTCTACTGGATGAGAATGAAGTGGCAGCTAGTATGGAGGTAGATGTTCAGGAGAAGCTGGAGCAGCTGGA  
GACAAACATGGAGACCTTGTACACTCGTTTTGCCCGCCTGCTGGCTGAGTACACTGGAGCCCAGCAGAAG  
CTCAAACAGCGCATCACAGTGTGGAGACCAAGATGAAACAGAACCATGAGGATGATTACCTATCAGATG  
GGATAAACACCCCTGAGCCAGCTGTTGCTGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG209871 representing NM\_007724  
 Red=Cloning site Green=Tags(s)

MMTEKSNQVVKSSPANNHNNHPPPSIKANGKDDHRAGSRPQSVAAADDDTSSELQRLAEMDTPRRGRGGFRR  
 IVRLVGIIRDWANKNFREEEPDPDSFLERFRGPELQTVTTHQGDGKGDGEGKGTKKKFFELFVLDPAGD  
 WYYRWLFVIAMPVLYNWCLLVARACFSDLQRNYFVWVLDYFSDTVYIADLIIRLRTGFLEQGLLVKDP  
 KKL RDNYIHTLQFKLDVASIIPD LIYFAVGIHSPEVRFNRLHFARMFEFFDRTE TRTSYPNIFRISNL  
 VLYILVI IHNACIYYAISKSIGFVDTWYYPNITDPEYGYLAREYIYCLYWSTLTLTTIGETPPPVKDE  
 EYLFVIFDFLIGVLIFATIVGNVGMISNMNATRAEFQAKIDAVKHMQFRKVSKDMEAKVIKWFYDLWT  
 NKKTVDEREVLK NLP AKLRAEIAINVHLSTLKKVRI FQDCEAGLLVELVLKLRPQV FSPGDYICRKGDIG  
 KEMYIIKEGLAVVADDGVTQYALLSAGSCFGEISILNIKGSKMGNRRTANIRSLGYSDFCLSKDDLME  
 AVTEYPD A KKVLEERGREILMKEGLLDENEVAASMEVDVQEKLEQLETNMETLYTRFARLLAEYTG AQQK  
 LKQRITVLETKMKQNHEDDYLSDGINTPEPAVAE

TRTRPLE - GFP Tag - V

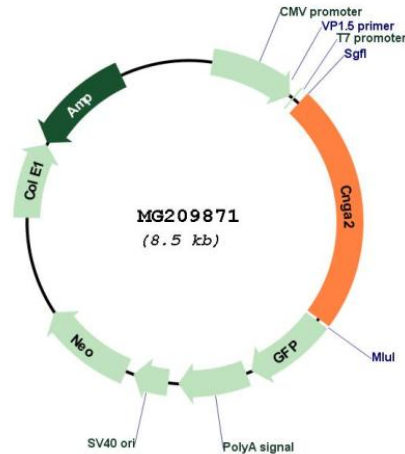
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



## Plasmid Map:



ACCN: NM\_007724

ORF Size: 1992 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\\_007724.3](#), [NP\\_031750.2](#)

RefSeq Size: 3073 bp

RefSeq ORF: 1995 bp

Locus ID: 12789

UniProt ID: [Q62398](#)

Cytogenetics: X A7.3

**Gene Summary:** This gene encodes a transmembrane protein that is a subunit of the nucleotide-gated olfactory ion channel. Knock out of this gene affects development of the olfactory epithelium and olfactory bulb. [provided by RefSeq, May 2015]