

## Product datasheet for **RN201869**

### **Cnga2 (NM\_012928) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cnga2 (NM_012928) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Cnga2
Synonyms:	Cncg4; OLFCH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >RN201869 representing NM\_012928  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGATGACCGAAAAATCCAATGGTGTGAAAAGCTCTCCAGCTAATAACCATAAACCATCATCTCCTCCTT  
 CTATCAAGGCCAATGGCAAAGATGACCACAGGGCAGGAAGCAGACCACAGTCTGTGGCAGCTGATGATGA  
 CACTTCTCCAGAACTACAAAGGCTGGCAGAGATGGATACCCCTCGGAGGGGGAGGGGTGGCTTCCAAAGG  
 ATTGTTGCCTGGTGGGGTTCATCAGGGACTGGGCCAACAAAGAATTTCCGTGAAGAGGAACCAAGGCCTG  
 ACTCCTTCTAGAGCGTTTCCGTGGGCCAGAATCCAGACTGTGACAACCCATCAGGGGGATGACAAAGG  
 CGGCAAGGACGGCAGGGAAAGGCCACCAAAAAGAAATTTGAACTGTTTGTGGACCCAGCCGGAGAC  
 TGGTATTACCGTTGGTTGTTGTCATTGCCATGCCTGTTCTTTACAACCTGGTGCCTGTTGGTGGCCAGAG  
 CCTGCTCAGTGATCTACAGAGAACTATTTGTGGTATGGCTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT  
 CTATATCGCAGACCTCATATTCGGCTGCGCACAGGCTTCTAGAACAGGGGCTCTTGGTCAAAGATCCC  
 AAGAAATTGCGAGACAATATATTCACACTTTGCAGTTCAAATGGATGTGGCTTCTATCATTCCCACTG  
 ACCTTATCTATTTTGTGTGGTATCCACAGCCCTGAGGTACGCTTCAACCGTCTATTACACTTTGCCCG  
 TATGTTTGAGTCTTTGACCGCACTGAGACACGCACCAGTACCCCAACATCTTCCGAATCAGCAATCTG  
 GTCCTTTACATCTTGGTCATCATCCACTGGAATGCTTGTATTTATTATGTTATTTCTAAGTCCATTGGCT  
 TTGGAGTTGACACCTGGGTTTACCCCAACATTACTGACCTGAATATGGTACCTGGCTAGAGAGTACAT  
 TTAAGTGTCTTACTGGTCCACTGACCCTCACCACCATTTGGAGAGACACCACCCCTGTAAAGGATGAG  
 GAGTACCTATTTGTCATCTTTGACTTCTTGATTGGTGCCTCATCTTTGCCACTATTGTGGGAAATGTGG  
 GCTCCATGATCTCCAACATGAATGCCACACGAGCAGAGTCCAGGCCAAGATTGATGCTGTCAAACACTA  
 CATGCAGTTCCGAAAGGTCAGCAAAGACATGGAAGCCAAGGTCAATAATGGTTTGACTACTTGTGGACC  
 AATAAGAAGACAGTAGATGAACGAGAAGTCTCAAGAACCTGCCAGCAAAGCTCAGGGCTGAGATAGCCA  
 TTAATGTTCACTTGTCCACTCTGAAGAAAGTGCGCATATTCAGGATTGTGAAGCTGGCCTACTGGTGGAA  
 ACTGGTACTGAAGCTTCTCCTCAGGTCTTTAGTCTGGAGATTATTTGCCGTAAAGGGGACATTGGC  
 AAGGAAATGTACATCATCAAGGAGGGCAAGTTGGCAGTGGTAGCTGATGATGGCTGACTCAGTATGCCT  
 TGCTCTCAGCTGGGAGCTGCTTTGGTGAAGATTAGTATCCTTAACATTAAGGGTAGCAAAATGGGCAATCG  
 ACGTACTGCTAATATCCGTAGCCTGGGCTACTCAGATCTCTTCTGCTTGTCCAAGGACGATCTTATGGAA  
 GCTGTAAGTGAATATCCTGATGCCAAGAAGTCTGGAGGAACGGGTAGGGAGATCCTGATGAAGGAAG  
 GTCTACTGGATGAGAATGAAGTGGCAGCTAGTATGGAGGTAGATGTTTCCAGGAGAAGCTGGAACAGTTGGA  
 GACAAACATGGATACCTGTACACTCGCTTTGCCCGCCTGCTGGCTGAGTACACTGGGGCCAGCAGAAG  
 CTCAAGCAACGCATCACAGTGTAGAGACCAAGATGAAACAGAACCATGAGGATGATTATCTATCAGATG  
 GGATAAACACTCTGAGCCAACCTGCTGTA**AA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja3338\\_e02.zip](https://cdn.origene.com/chromatograms/ja3338_e02.zip)

**Restriction Sites:** SgfI-Mlul

**ACCN:** NM\_012928

**Insert Size:** 1995 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_012928.1](#), [NP\\_037060.1](#)

**RefSeq Size:** 3027 bp

**RefSeq ORF:** 1995 bp

**Locus ID:** 25411

**UniProt ID:** [Q00195](#)

**Cytogenetics:** 16q12.4

**Gene Summary:** cyclic nucleotide-gated ion channel involved in signal transduction; may participate in neural communication and plasticity [RGD, Feb 2006]