

## Product datasheet for **MC228623**

### **Cnga3 (NM\_001282010) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cnga3 (NM_001282010) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cnga3
Synonyms:	CNG3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC228623 representing NM\_001282010  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCAAAGGTGAACACCCAGTGTTCACAGCCCTCCCGACCCAACCTTTCATAAAGAATGCGGACAGAG  
 ATCTCGACCACGTAGAGAACGGCCTGGGACAGTCTCACTCACCATGTGAGGAGACATCTCCACACTGCA  
 GCAAGGGATCGCCATGGAGACCCGAGGACTGGCTGGATCCGCACGGAGCGTAGTACAAGCCAGGGACCA  
 GCCAGGGTGTACGCCTCATCTCGATTCTGCGTGGGCTCCAGGCACTTACACGATGAAGACCAGA  
 CACCTGACTCCTTTTGGATCGATTTTCATGGATCTGAGCTTAAGGAAGTCTCCACCCGGAAAGCAATGC  
 CCAGCCCAACCCAGGAGAACAGAAGCCACCAGACGGAGGGGAAGGCAGGAAGGAGGAGCCATTGTGGTG  
 GACCCCTCAGCAACATCTACTACCGCTGGCTGACTGCCATCGCGCTCCAGTCTTCTATAACTGGTGTC  
 TACTTGTATGCAGGGCCTGTTTTGATGAGCTACAATCAGAGCACCTGACGCTGTGGCTGGTCTTGGACTA  
 CTCTGCAGATGTCCTTTATGTTTTAGACATGCTGGTTCGAGCCCGACAGTTTTCTTGAGCAAGGCCTA  
 ATGGTCAGAGATACCAAGAGGCTGTGAAACATTACACAAGACCTTGCACCTTCAAGCTGGACATCCTGT  
 CTCTCATCCCCACAGACCTGGCTTATTTAAAGTTGGGCGTGAACCTACCCAGAAGTGAAGTTCAACCGCT  
 CCTGAAGTTCTCTCGGCTCTTTGAATTCTTTGACCGCACAGAGACAAGGACCAACTACCCCAACGTGTT  
 AGGATAGGGAAGTGGTCTTTACACACTCATCATCCACTGGAATGCCTGCATCTACTTTGCCATTT  
 CCAAGTTCATTGGTTTTGGGACAGACTCCTGGGTCTATCCAAACACCTCCAAGCCGGAGTATGCACGACT  
 CTCCCGAAGTACATTTACAGTCTCTACTGGTCCACCTGACCTGACCACCTGGTGGAGACCCACCC  
 CCCGTGAAGATGAAGAGTATCTCTTTGGTTCATCGACTTCTGGTGGGTATCCTGATCTTTGCCACCA  
 TAGTGGGCAACGTAGGCTCCATGATTTCCAACATGAACGCTCCCGGGTAGAGTCCAGGTAAGATCGA  
 CTCGGTCAAGCAGTACATGCAGTTCGGGAAGGTAAACCAAGGACTTGGAGACTCGGGTTATCCGGTGGTTT  
 GACTATCTGTGGGCAACAGGAAGACGGTGGATGAAAAGGAAGTCTCAAAAACCTCCCGGACAAGCTGA  
 AGGCTGAGATCGCCATCAACGTGCACCTGGACAGCTGAAGAAGGTCCGAATCTCCAGGACTGCGAGGC  
 GGGGCTGCTGGTGGAGCTGGTGTGAAGCTCCGCCCACTGTGTTAGCCCGGGGACTACATATGCAAA  
 AAGGGGGACATTGGAAGAGAGATGTACATCATCAAGGAGGGCAAGCTGGCTGTGGTGGCTGATGACGGG  
 TCACCCAGTTTGGTCTCAGTGACGGCAGTTACTTTGGGGAGATTAGCATCTTAACATTAAGGGGAG  
 CAAGTCTGGGAACCGCAGGACGGCAACATCAGGAGTATCGGCTACTCAGACCTGTTCTGCCTCTCCAAG  
 GATGACCTAATGGAAGCCCTCACCGAGTACCCAGACGCTAAGAGGGCTCTGGAGGAAAAGGGCCGTCAGA  
 TTCTGATGAAGGACAACCTAATTGATGAGGACCTAGTCGCGGCCAGGGTATGATACAGGGGACGTTGAGGA  
 GAAGGTGGAGTACCTGGAGTCGTCCTGGACATCCTGCAGACGAGGTTTGCCCGACTCCTGGCTGAGTAC  
 AGTGCCTCCAGATGAAGCTGAAACAGCGGCTCACTCGGCTGGAGAGCCAGATGAACAGGAGGTGTTGTG  
 GCTTCTCACCTGACAGGGAGAATCCGAGGATGCTTCAAAGACTGACT**G**A

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001282010

**Insert Size:** 2010 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).

**OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001282010.1, NP_001268939.1</u>
<b>RefSeq Size:</b>	3623 bp
<b>RefSeq ORF:</b>	2010 bp
<b>Locus ID:</b>	12790
<b>UniProt ID:</b>	<u>Q9JJZ8</u>
<b>Cytogenetics:</b>	1 B
<b>Gene Summary:</b>	Visual signal transduction is mediated by a G-protein coupled cascade using cGMP as second messenger. This protein can be activated by cyclic GMP which leads to an opening of the cation channel and thereby causing a depolarization of cone photoreceptors. Essential for the generation of light-evoked electrical responses in the red-, green- and blue sensitive cones (By similarity). Induced a flickering channel gating, weakened the outward rectification in the presence of extracellular calcium, increased sensitivity for L-cis diltiazem and enhanced the cAMP efficacy of the channel when coexpressed with CNGB3.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) encodes the longer isoform (1).