

## Product datasheet for **SC315822**

### **CNG3 (CNGA3) (NM\_001079878) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	CNG3 (CNGA3) (NM_001079878) Human Untagged Clone
Tag:	Tag Free
Symbol:	CNGA3
Synonyms:	ACHM2; CCNC1; CCNCa; CCNCalpha; CNGG3; CNG3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

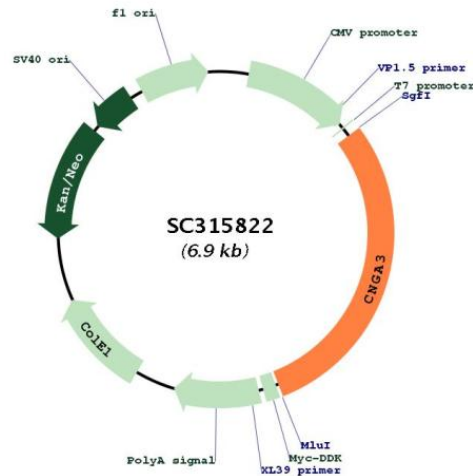


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Fully Sequenced ORF: >SC315822 representing NM\_001079878.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCCAAGATCAACACCCAATACTCCCACCCCTCCAGGACCCACCTCAAGGTAAGACCTCAGACCGA
GATCTCAATCGCGCTGAAAATGGCCTCAGCAGAGCCCACTCGTCAAGTGAGGAGACATCGTCAGTGCTG
CAGCCGGGGATCGCCATGGAGACCAGAGGACTGGCTGACTCCGGGCAGGGCTCCTTCACCGGCCAGGGG
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CAGGGACCGGACTCTTTTCTGATCGTTTTCCGTGGAGCCGAGCTTAAGGAGGTGTCCAGCCAAGAAAGC
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GCCAAGAAGGCCCTGGAGGAGAAAGGACGGCAGATCCTGATGAAAGACAACCTGATCGATGAGGAGCTG
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GCTACAAAAACAGAGGACAAACAACAGTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: SgfI-MluI

**Plasmid Map:**


**ACCN:** NM\_001079878

**Insert Size:** 2031 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:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_001079878.1](#)

**RefSeq Size:** 3794 bp

**RefSeq ORF:** 2031 bp

**Locus ID:** 1261

**UniProt ID:** [Q16281](#)

**Cytogenetics:** 2q11.2

<b>Protein Families:</b>	Druggable Genome, Ion Channels: Cyclic nucleotide gated, Transmembrane
<b>Protein Pathways:</b>	Olfactory transduction
<b>MW:</b>	76.9 kDa
<b>Gene Summary:</b>	<p>This gene encodes a member of the cyclic nucleotide-gated cation channel protein family which is required for normal vision and olfactory signal transduction. Mutations in this gene are associated with achromatopsia (rod monochromacy) and color blindness. Two alternatively spliced transcripts encoding different isoforms have been described. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (2) lacks an alternate in-frame exon in the coding region, compared to variant 1. The resulting protein (isoform 2) is shorter and lacks an internal segment, compared to isoform 1.</p>