

Product datasheet for **RC212989**

CNGB3 (NM_019098) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CNGB3 (NM_019098) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CNGB3
Synonyms:	ACHM1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC212989 representing NM_019098.

Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
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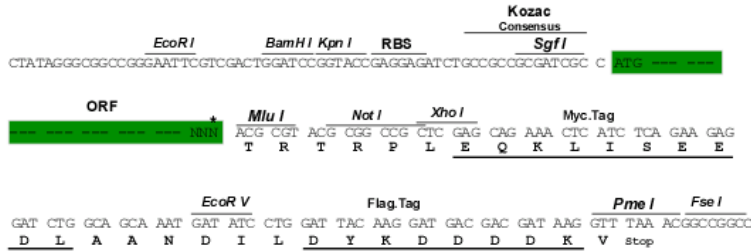
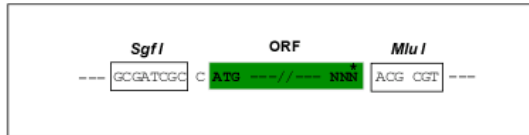
Protein Sequence: >Peptide sequence encoded by RC212989
 Blue=ORF Red=Cloning site Green=Tag(s)

MFKSLTKVNVKPIGENNENEQSSRRNEEGSHPSNQSQQTTAQEENKGEESLTKTKSTPVTSEEPHTNI
 QDKLSKKNSSGDLTTNPDQNAAEPTGTVPQKEMDPGKEGPNPQNPPAAPVINEYADAQLHNLVKR
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 QTLFEIVFQLLNFFSGVVFSSLIGQMRDVIGAATANQNYFRACMDDTIAYMNNYSIPKLVQKRVRTWY
 EYTWDSQRMLDESLLKTLPTTVQLALADVNFSSIISKVDLFGKCDTQMIYDMLLRLKSVLYLPGDFVC
 KKGEIGKEMIIKHGEVQVLGGPDGKVLVTLKAGSVFGEISLLAAGGGRRTANVVAHGFANLLTLDK
 KTLQEILVHPDSERILMKARVLLKQAKTAEATPPRKDLALLFPPKEETPKLFTLLGGTGKASLAR
 LLKLRQAAQKKENSEGEEGKENEKQKENEKQKENEKDKGKENEKDKGREPEEKPLDRPECTAS
 PIAVEEPPHSVRRTVLPRGTSRQSLIISMPSAEGGEEVLTIEVKEKAKQ
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Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



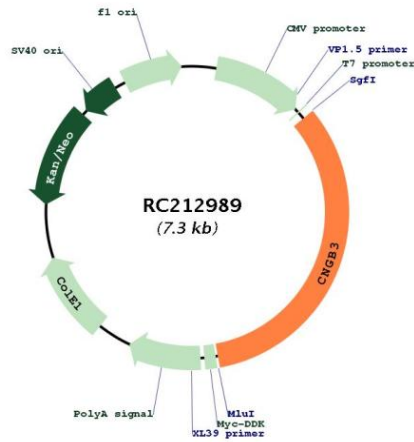
* The last codon before the Stop codon of the ORF

ACCN: NM_019098

ORF Size: 2427 bp

OTI Disclaimer:	<p>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 or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
Reconstitution Method:	<ol style="list-style-type: none">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_019098.5
RefSeq Size:	4369 bp
RefSeq ORF:	2430 bp
Locus ID:	54714
UniProt ID:	Q9NQW8
Cytogenetics:	8q21.3
Protein Families:	Druggable Genome, Ion Channels: Cyclic nucleotide gated, Transmembrane
MW:	92.2 kDa
Gene Summary:	<p>This gene encodes the beta subunit of a cyclic nucleotide-gated ion channel. The encoded beta subunit appears to play a role in modulation of channel function in cone photoreceptors. This heterotetrameric channel is necessary for sensory transduction, and mutations in this gene have been associated with achromatopsia 3, progressive cone dystrophy, and juvenile macular degeneration, also known as Stargardt Disease. [provided by RefSeq, Feb 2010]</p>

Product images:



Circular map for RC212989