

## Product datasheet for RC226950

### CNGB1 (NM\_001135639) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CNGB1 (NM_001135639) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CNGB1
Synonyms:	CNCG2; CNCG3L; CNCG4; CNG4; CNGB1B; GAR1; GARP; GARP2; RCNC2; RCNCb; RCNCbeta; RP45
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC226950 representing NM_001135639 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTTGGGCTGGGTCCAGAGGGTCTGCCTCAGCCCCAGGGACCCCTCGGAAGACCAAGATGCAGGAGG  
AAGAGGAAGTGAACAGAGCCAGAGATGGAGGCGGAGGTGGAACAGAACCGAATCCTGAGGAGGCCGA  
GACAGAGTCCGAGTCCATGCCCCCGAAGAGTCATTCAAGGAGGAGGAAGTGGCTGTGGCAGACCCAAGC  
CCTCAGGAGACCAAGGAGGCTGCCCTTACTTCCACCATATCCCTCCGGGCCAGGGCGCTGAGATTTCTG  
AAATGAATAGTCCAGCCGAGGGTACTGACCTGGCTCATGAAGGGCGTAGAGAAGGTGATCCCGCAGCC  
TGTTACAGCATCACGGAGGACCCGGCTCAGATCCTGGGGCATGGCAGCACTGGGGACACAGGGTGCACA  
GATGAACCAATGAGGCCCTTGAGGCCAAGACTAGGCCTGGGCTGCGGCTGCTTCTGTGGCTGGAGC  
AGAATCTGAAAGAGTGCTTCTCAGCCCCAAATCCTCTGAGGTCTGGAGAGATGAGCCTGCAGTTGC  
TACAGGTGCTGCCTCAGACCCAGCGCTCCAGGACGCCCCAGGAAATGGGGCCCAAGCTGCAGGCCCGG  
GAGACCCCTCCCTGCCACACCCATCCCTGCAGCCCAAGGAGGAACCAAGGAGGCACCAGCTCCAG  
AGCCCCAGCCGGCTCCAGGCCAGACCTCCTCCCTGCCACCAACAGGGACCCCTGCCAGGCTGGTGGC  
ATGGGTCTGCACAGGCTGGAGATGGCCTTGCCGAGCCAGTGTACATGGGAAAATAGGGGAACAGGAG  
CCTGACTCCCCTGGGATATGTGATGTGCAGACCAGGGTGTGGGAGCTGGAGGTCTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

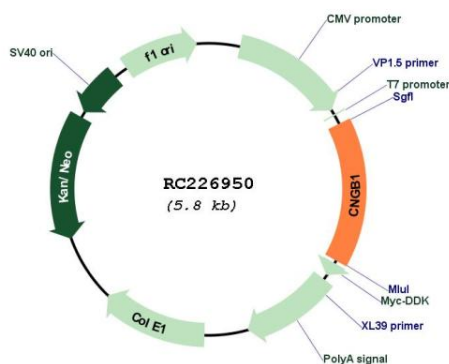


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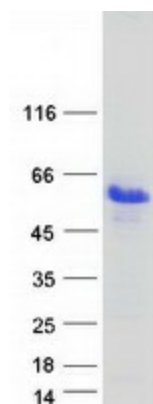


<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, 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>	<a href="#">NM_001135639.2</a>
<b>RefSeq ORF:</b>	900 bp
<b>Locus ID:</b>	1258
<b>UniProt ID:</b>	<a href="#">Q14028</a>
<b>Cytogenetics:</b>	16q21
<b>Protein Families:</b>	Druggable Genome, Ion Channels: Cyclic nucleotide gated
<b>Protein Pathways:</b>	Olfactory transduction
<b>MW:</b>	32.4 kDa
<b>Gene Summary:</b>	In humans, the rod photoreceptor cGMP-gated cation channel helps regulate ion flow into the rod photoreceptor outer segment in response to light-induced alteration of the levels of intracellular cGMP. This channel consists of two subunits, alpha and beta, with the protein encoded by this gene representing the beta subunit. Defects in this gene are a cause of cause of retinitis pigmentosa type 45. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2013]

## Product images:



Circular map for RC226950



Coomassie blue staining of purified CNGB1 protein (Cat# [TP326950]). The protein was produced from HEK293T cells transfected with CNGB1 cDNA clone (Cat# RC226950) using MegaTran 2.0 (Cat# [TT210002]).