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Product datasheet for RC213215

CNGA2 (NM_005140) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CNGA2 (NM_005140) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CNGA2
Synonyms:	CNCA; CNCA1; CNG2; OCNC1; OCNCa; OCNCALPHA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>RC213215 representing NM_005140
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACCGAAAAAACCAATGGTGTGAAGAGCTCCCCAGCCAATAATCACAACCATCATGCACCTCCTGCCA
TCAAGGCCAATGGCAAAGATGACCACAGGACAAGCAGCAGGCCACACTCTGCAGCTGACGATGACACCTC
CTCAGAACTGCAGAGGCTGGCAGACGTGGATGCCCCACAGCAGGGAAGGAGTGGCTTCCGCAGGATAGTT
CGCCTGGTGGGGATCATCAGAGAATGGGCCAACAAGAATTTCCGAGAGGAGGAACCTAGGCCTGACTCAT
TCCTCGAACGTTTTCGTGGGCCTGAACTCCAGACTGTGACCACACAGGAGGGGGATGGCAAAGGCGACAA
GGATGGCGAGGACAAAGGCACCAAGAAGAAATTTGAACTATTTGTCTTGGACCCAGCTGGGGATTGGTAC
TACTGCTGGCTATTTGTCATTGCCATGCCCGTCCTTTACAACTGGTGCCTGCTGGTGGCCAGAGCCTGCT
TCAGTGACCTACAGAAAGGCTACTACCTGGTGTGGCTGGTGCTGGATTATGTCTCAGATGTGGTCTACAT
TGCGGACCTCTTCATCCGATTGCGCACAGGTTTCCTGGAGCAGGGGCTGCTGGTCAAAGATACCAAGAAA
CTGCGAGACAACTACATCCACACCCTGCAGTTCAAGCTGGATGTGGCTTCCATCATCCCCACTGACCTGA
TCTATTTTGCTGTGGACATCCACAGCCCTGAGGTGCGCTTCAACCGCCTGCTGCACTTTGCCCGCATGTT
TGAGTTCTTTGACCGGACAGAGACACGCACCAACTACCCTAACATCTTCCGCATCAGCAACCTTGTCCTC
TACATCTTGGTCATCATCCACTGGAATGCCTGCATCTATTATGCCATCTCCAAATCCATAGGCTTTGGGG
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CCTTTACTGGTCCACACTGACTCTCACTACCATTGGGGAGACACCACCCCCTGTAAAGGATGAGGAGTAC
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GTTCCGAAAGGTCAGCAAGGGGATGGAAGCCAAGGTCATTAGGTGGTTTGACTACTTGTGGACCAATAAG
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AGCTAATATCCGCAGCCTGGGCTACTCAGATCTCTTCTGCTTGTCCAAGGATGATCTTATGGAAGCTGTG
ACTGAGTACCCTGATGCCAAGAAAGTCCTAGAAGAGAGGGGTCGGGAGATCCTCATGAAGGAGGGACTGC
TGGATGAGAACGAAGTGGCAACCAGCATGGAGGTCGACGTGCAGGAGAAGCTAGGGCAGCTGGAGACCAA
CATGGAAACCTTGTACACTCGCTTTGGCCGCCTGCTGGCTGAGTACACGGGGGCCCAGCAGAAGCTCAAG
CAGCGCATCACAGTTCTGGAAACCAAGATGAAACAGAACAATGAAGATGACTACCTGTCTGATGGGATGA
ACAGCCCTGAGCTGGCTGCTGCTGACGAGCCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC213215 representing NM_005140
Red=Cloning site Green=Tags(s)

MTEKTNGVKSSPANNHNHHAPPAIKANGKDDHRTSSRPHSAADDDTSSELQRLADVDAPQQGRSGFRRIV
RLVGIIREWANKNFREEEPRPDSFLERFRGPELQTVTTQEGDGKGDKDGEDKGTKKKFELFVLDPAGDWY
YCWLFVIAMPVLYNWCLLVARACFSDLQKGYYLVWLVLDYVSDVVYIADLFIRLRTGFLEQGLLVKDTKK
LRDNYIHTLQFKLDVASIIPTDLIYFAVDIHSPEVRFNRLLHFARMFEFFDRTETRTNYPNIFRISNLVL
YILVIIHWNACIYYAISKSIGFGVDTWVYPNITDPEYGYLAREYIYCLYWSTLTLTTIGETPPPVKDEEY
LFVIFDFLIGVLIFATIVGNVGSMISNMNATRAEFQAKIDAVKHYMQFRKVSKGMEAKVIRWFDYLWTNK
KTVDEREILKNLPAKLRAEIAINVHLSTLKKVRIFHDCEAGLLVELVLKLRPQVFSPGDYICRKGDIGKE
MYIIKEGKLAVVADDGVTQYALLSAGSCFGEISILNIKGSKMGNRRTANIRSLGYSDLFCLSKDDLMEAV
TEYPDAKKVLEERGREILMKEGLLDENEVATSMEVDVQEKLGQLETNMETLYTRFGRLLAEYTGAQQKLK
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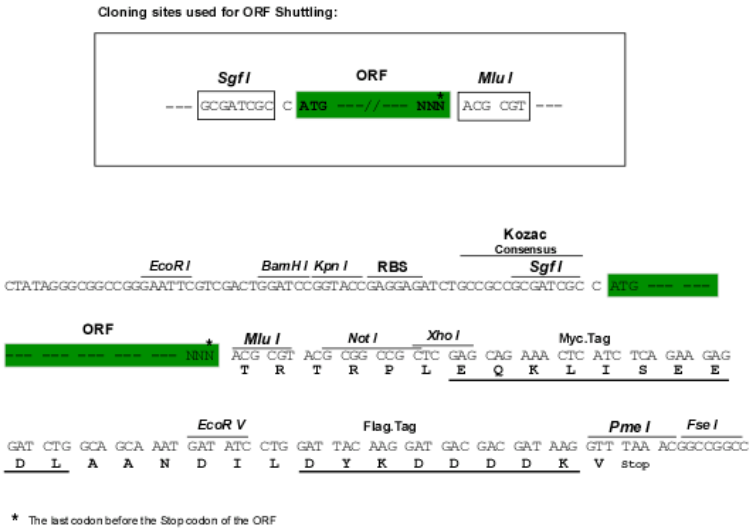
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

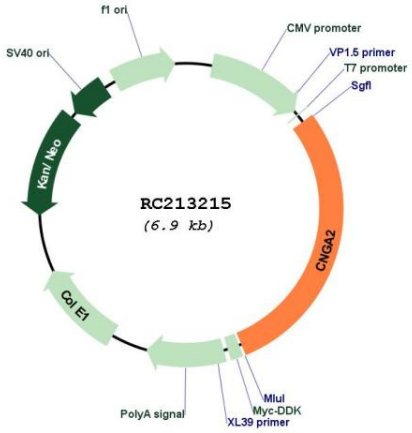


ACCN: NM_005140

ORF Size: 1992 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 or by calling 301.340.3188 option 3 for pricing and delivery. 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
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_005140.1, NP_005131.1
RefSeq Size:	3285 bp
RefSeq ORF:	1995 bp
Locus ID:	1260
UniProt ID:	Q16280
Cytogenetics:	Xq28
Protein Families:	Druggable Genome, Ion Channels: Cyclic nucleotide gated, Transmembrane
MW:	75.9 kDa
Gene Summary:	The protein encoded by this gene represents the alpha subunit of a cyclic nucleotide-gated olfactory channel. The encoded protein contains a carboxy-terminal leucine zipper that mediates channel formation. [provided by RefSeq, Jan 2010]

Product images:



Circular map for RC213215