

Product datasheet for **RR211210**

Cnga1 (NM_053497) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cnga1 (NM_053497) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cnga1
Synonyms:	Cncg; HCN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RR211210 representing NM_053497
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGAAAAAGTGATTATCAACACGTGGCATTCTTCGTAATATCCCCAACGTGGTTGTACCAGCTATCG
AAAAGGAAATTCGACGCATGGAAAATGGGGCGTGCAGCTATTTCTGACAATGACAATGGCTCTCTGTC
TGAAGAATCAGAGAATGAGGACTCTCTCTTTAGAACAACTCATACAGAAGGCGAGGACCATCCCAGAGG
GAGCATTACTGCCAGGCACCATGGCTCTTTCAATGTTAACACAGCAGCAACAAGACCAAGACCCAA
AGGAGAAAAAGAAAAAGAAAAAGAAAAAGAAAGCAAGGCCGATGATAAAAAGGAAAGTAAAAAGGACCC
AGAGAAGAAAAAGAAAGAAAAAGAAAAAGAGAAGAAAAAGGAGGAGAAACCCAAAGAAAAAGAAAGAA
GGGGAGAAAAAGAAAGTTGTGGTTATTGATCCCTCAGGAAACATGTACTACAACCTGGCTGTTTTGTATCA
CTTTACCTGTGATGTACAACCTGGACGATGATTATTGCAAGAGCATGTTTTGATGAACTCCAGTCTGATTA
CCTAGAATATTGGCTCATTTTTGATTACGTATCAGATGTAGTCTACCTTGCTGATATGTTGTACGGACA
AGGACAGGTTACCTGGAACAAGGTTGCTAGTAAAGACAAACTGAAACTCATAGAGAAGTACAAAGCAA
ACCTGCAGTTAACTTGACGTTCTGTCACTGATACCGACCGACCTGCTGATTTTCAAGTTTGGGTGGAA
CTATCCAGAAATCAGGTTGAACCGGCTGTTAAGAATCTCTCGGATGTTTGAGTCTTCCAGAGGACAGAG
ACAAGGACCAACTACCGAACATCTTTAGGATCTCAAACCTTGTGATGTACATTGTCATCATCCACT
GGAACGCGTGTGTACTACTCCATCTCAAAGCTATTGGATTGGGAATGACACATGGGTCTACCTGTA
TGTTAATGATCCTGAATTTGGCCGTTGGCTAGAAAATACGCTACAGCCTTTATTGGTCTACCTTGACT
TTGACGACCATTGGAGAAACCCACCCCGTGGATTCCGAGTATGCTTTTGGTGGTAGACTTCT
TAATTGGAGTTTAAATTTTTGCCACCATTGTCGGTAACATAGGCTCCATGATTTCCAATATGAATGCAGC
CCGGGCAGAATTTCAATCAAGAGTTGATGCTATCAAACAGTACATGAATTTTCGAAATGTGAGCAAAGAC
ATGAAAAAGAGAGTTATTAATGGTTTGACTACCTGTGGACTAACAAAAAGACAGTCGATGAGAGAGAAG
TTCTGAGATACCTCCCTGACAACTCAGGGCAGAGATTGCCATCAATGTTACCTAGACACGTTAAAAAA
GGTTCGTATCTTTGCTGACTGTGAGGCTGGTCTGTTGGTGGAGTTGGTGTGAAATTACAACCCAGGTG
TACAGTCTGGAGATTACATATGCAAGAAAGGGGACATTGGGCGGAGATGTACATCATCAAGGAAGGCA
AACTTGCTGTGGTGGCAGACGACGGAATCACACAGTTTGTGGTGTGAGTGACGGCAGCTACTTTGGCGA
GATCAGCATTCTAACATCAAAGGCAGCAAGGCTGGCAACCGAAGAACAGCCAATATTAAGAGCATTGGC
TACTCGGACCTGTTCTGCCTCTCAAAGGATGACCTCATGGAAGCTTTACAGAGTACCCAGATGCCAAAA
CTATGTTGGAGGAGAAAGGGAGGAGATCTTAATGAAAGACGGTCTACTGGATATAAACATTGCGAATTT
GGGCAGTGACCCTAAAGACCTGGAAGAGAAGGTCACTCGAATGGAGGGTCAAGTGGACCTCCTGCAAAACA
CGATTTGCCCGAATCTTGGCTGAGTATGAATCGATGCAGCAGAAACTCAAGCAAAGATTAACCAAGGTTG
AGAAATTTTGAACCACTTATTGAACTGAATTTTCAGCCCTTGAGGAACCCGGAGGAGAAAGTGAACC
CACAGAGTCTCTACAGGGC

AG**GACCC**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR211210 representing NM_053497
 Red=Cloning site Green=Tags(s)

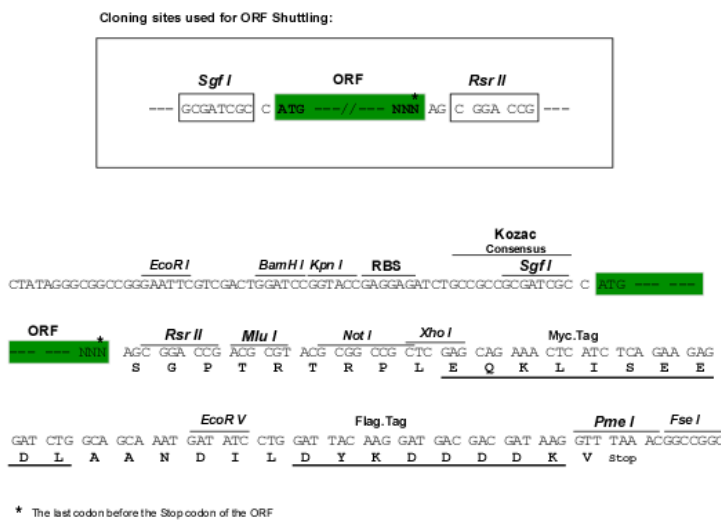
MKKVIINTWHSFVNIPNVVPAIEKEIRRMENGACSSFSDNDNGSLSEESENEEDSLFRSNSYRRRGRPSQR
 EHYPGTMALFNVNNSNKDQDPKEKKKKKKKKKADDDKESKKDPEKKKKKEKEKEKKKEKPEKKE
 GEKKEVVVIDPSGNMYYNWLFCTILPVMYNWTMIARACFDELQSDYLEYWLIFDYVSDVVYLADMVVRT
 RTGYLEQGLLVKDKLKLIEKYKANLQFKLDVLSVIPTDLLYFKFGWNYPEIRLNRLLRISRMFEFFQRTE
 TRTNYPNIFRISNLVMIYIVIIHWNACVYYSISKAIGFNDTWYYPDVNDPEFGRLARKVYVSLYWSTLT
 LTTIGETPPPVL DSEYV FVVVDFLIGVLI FATIVGNIGSMISNMNAARAEFQSRVDAIKQYMNFRNVSKD
 MEKRVIKWFDYLWTKKTVDEREVLRYLPDKLRAEIAINVHLDLTKKVRIFADCEAGLLVELVLKLPQV
 YSPGDYICKKGDIGREMYIIKEGKLAVVADDGITQFVVLSDGSYFGEISILNIKGSKAGNRRTANIKSIG
 YSDLFCLSKDDLMEALTEYPAKTMLEEKGRQILMKDGLLDINIANLGSDPKDLLEEKVTRMEGSDLLQT
 RFARILAEYESMQQKLKQRLTKVEKFLPLIETEFSALEEPGGESEPTESLQG

SGP TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-RsrII

Cloning Scheme:



ACCN: NM_053497

ORF Size: 2049 bp

OTI Disclaimer: 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.

RefSeq: [NM_053497.1](#), [NP_445949.1](#)

RefSeq Size: 2148 bp

RefSeq ORF: 2052 bp

Locus ID: 85259

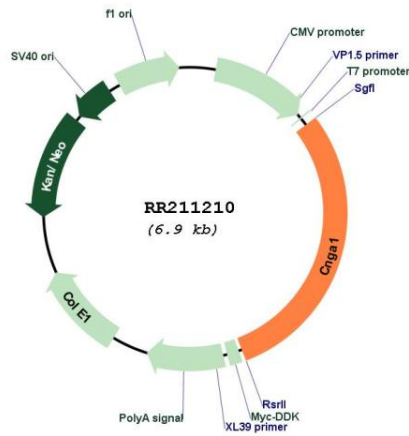
UniProt ID: [Q62927](#)

Cytogenetics: 14p11

MW: 79.2 kDa

Gene Summary: olfactory cyclic nucleotide-gated cation channel; involved in sensory transduction [RGD, Feb 2006]

Product images:



Circular map for RR211210