

Product datasheet for **RR201856**

Ncam2 (NM_203409) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ncam2 (NM_203409) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ncam2
Synonyms:	Ocam; OCAM-GPI
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide
Sequence:

>RR201856 representing NM_203409
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGCCTCCTCCTCTCCTTCTACCTGCTCGGGTGTCTGTAGTACGCGGCAAGCTCTTCTCAAGTGA
 CAATTTCACTTAGCAAAGTAGAGCTTAGTGTGGGTGAATCTAAATTCCTCACATGTACAGCAATTGGCGA
 GCCTGAGAGTATAGACTGGTACAACCTCAAGGAGAGAAGATCATTTCACCGCAGAGGGTTATGCTACAG
 AAGGAGGGCGTCAGGCTCGACTAACCTCTACAATGCCAACATAGAAGATGCAGGAATATATCGCTGTC
 AAGCGACAGATGCCAAAGGGCAGACGCAGGAAGCTACAGTAGTTTTGGAAATTTACCAAAAACCTCACCTT
 CAGAGAAGTGTCTCCCTCAAGAGTTCAGCAAGGGGAGGATGCAGAAGTGGTTTCAGAGTGTGAGCAGT
 TCCCCCGCCCTGCGGTGAGTGGCTGTATCACAATGAGGAAGTACCACCATCCCCGACAATCGGTTTG
 CTGTGCTTGCACAAATAATTTGCAGATCCTCAACATCAATAAAAGTGATGAAGGTATATACAGATGTGA
 AGGAAGAGTGGAGGCCAGGGGAGAGATTGACTTCCGGGACATTATTGTTATTGTAACGTTCCGCCAGCA
 ATCGTGATGCCCAAAAGTCCTTCAATGCCACTGCAGAGAGAGGAGAAGAGATGACCTTAACCTGCAAGG
 CCTCGGGCTCCCAAGATCCCGCCATCTCTTGGTTCAGGAATGGCAAACCTCATTGAAGAAAATGAAAAGTA
 TATTTAAAGGGCAGTAATACAGAGCTCACGGTCAGAAACATAATCAATAAAGATGGGGGCTCTTATGTC
 TGCAAAGCCACAAATAAGGCAGGGGAAGATCAGAAGCAGGCCCTTCTTCAAGTTTTCGTGACGCCTCATA
 TATTACAACCTCAAGAATGAGACAACGTCTGAAAATGGTCACGTCACACTCATCTGTGAAGCAGAAGGGGA
 GCCTGTTCCAGAAATCACATGGAAAAGAGCCATAGACGGAGTACATTTTCTGAAGGTGACAAGAGCCCA
 GATGGCCGCATCGAAGTTAAAGGGCAGCATGGCCGATCTTCACTGCACATCAGAGATGTGAAGTTGTGAG
 ATTCGGGAAGATATGACTGTGAGGCCGAGTAGAATTGGCGGGCACCAGAGAAGCATGCATCTTGACAT
 CGAATATGCTCCTAAGTTTGTTCAAATCAGACAATGTATTACTCTTGGGAAGGAAATCCAATCAATATA
 AGTTGTGATGTGAAGCAATCCACCTGCCTCAATCCACTGGAGAAGAGAGAAAATGGTCTTACCAGCTG
 AAAACACCACTCATTTAAAACTCACAGTGTGGGAAGAAAGATGATACTCGAGATTGCCGTACATCAGA
 CAATGACTTTGGACGATATAACTGCACTGCGACTAACCGCTTAGGCACGAGATCCAGGAGTATATTCTT
 GAGTTAGCAGATGTCCCCTCTAGTCCCCGTGGAGTGAAGATTATAGAGCTGTACAGACCACAGCCAAGA
 TATCTTTCAATAAACCCGAGTCCCATGGAGGTGTGCCATTCACTACTACCAAGTGGATGTCATGGAAGA
 GACATCAGAAACCTGGAAGATAGTACGCTCCCATGGAGTTCAAACGACAGTTGTTTTGAGCAGCCTGGAA
 CCAATACTACATATGAAGTCAGGGTGCAGCAGTGAATGGCAAAGGACAAGGAGACTACAGTAAAATAG
 AAATATTCAGACACTGCCAGTTCGTGAGCCAAGTCCCCCTTCCATACATGGACAGCCAAGCAGTGGGAA
 GAGTTTTAAAATCAGCATACCAAGCAAGATGATGGAGGGGCTCCCATTTTGAATACATTGTGAAATAC
 AGAAGTAAAGACAAGGAAGATCAGTGGCTAGAGAAGAAGGTGCAGGGAAATAAAGACCACATTATCTTGG
 AGCATCTGCAGTGGACAATGGGTATGAAGTTCAAATCACAGCTGCCAACAGACTTGGGTATTCTGAGCC
 GACTGTATATGAGTTCAGCATGCCTCCAAGGCCAACATTATTAAGACACACTTTTTAATGGCCTAGGC
 CTCGGAGCCATCATTGGCCTTGGAGTGCCTGCCCTTTTGCTAATCCTTGTGGTAACAGATGTGAGCTGCT
 TCTTCATTCGACAATGTGGTGTGTAATGTGCATCACCAGAAGAATGTGTGGGAAAAAGAGTGGCTCCAG
 TGGAAAAAGTAAAGAACTTGAAGAAGGAAAAGCAGCTTACCTGAAAGATGGATCAAAAGAACCAATAGTG
 GAAATGAGAACAGAGGATGAAAGAATCACTAACCATGAAGACGGGAGTCCAGTAAATGAGCCAAATGAAA
 CCACACCACTAACAGAACCTGAAAAATTGCCTTTAAAAGAAGAAAATGGAAAAGAAGTTTTAAATGCAGA
 AACTATAGAAATTAAGTGTCTAATGACATCATCCAGTCTAAAGAAGATGACATCAAGGCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR201856 representing NM_203409
Red=Cloning site Green=Tags(s)

MSLLLSFYLLGLLVSSGQALLQVTISLSKVELSVGESKFFCTAIGEPESIDWYNPQGEKIISTQRVMLQ
KEGVRSLTIYNANIEDAGIYRCQATDAKGQTQEATVVLEIYQKLTREVLSPQEFKQGEDAEVVCVSS
SPAPAVSWLYHNEEVTTIPDNRFVLANNNLQILNINKSDEGIYRCEGRVEARGEIDFRDIIVIVNPPA
IVMPQKSFNATAERGEEMTLTCKASGSPDPAISWFRNGKLIENEKYILKGSNTELTVRNIINKDGGSYV
CKATNKAGEDQKQAFVQPHILQLKNETTSENGHVTLICEAEGEPVPEITWKRAIDGVTFSEGDKSP
DGRIEVKGQHGRSSLHIRDVKLSDSGRYDCEAASRIGGHQRSMHLDIEYAPKFVSNQTMYYSWEGNPINI
SCDVKANPPASIHWRREKLVPAENTTHLKTHSVGRKMILEIARTSDNDFGRYNCATNRLGTRFQEYIL
ELADVPSPPRGVKIIELSQTTAKISFNKPESHGGVPIHHYQVDVMEETSETWKIVRSHGVQTTVVLSSLE
PNTTYEVVAAVNGKGQGDYSKIEIFQTLVREPSPPSIHGQPSSGKSFKISITKQDDGGAPILEYIVKY
RSKDKEDQWLEKKVQGNKDHIILEHLQWTMGYEVQITAAANRLGYSEPTVYEFMPPKPNIIKDTLFNGLG
LGAIIIGLVAALLLILVVTDVSCFFIRQCGLLMCITRRMCGKKS GSSGKSKELEEKAAAYLKDGSKEPIV
EMRTEDERITNHEDGSPVNEPNETTPLTEPEKLPKKEENGKEVLNAETIEIKVSNDI IQSKEDDIKA

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-Mlul

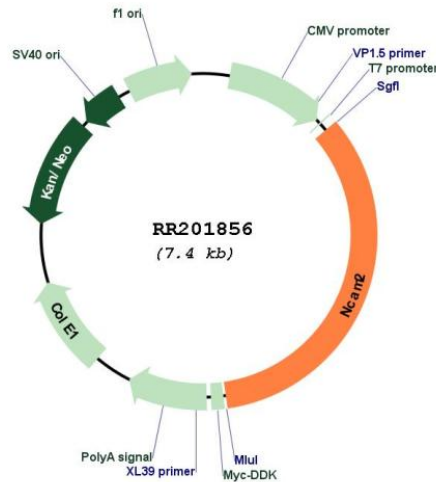
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_203409

ORF Size: 2511 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_203409.1](#), [NP_981954.1](#)

RefSeq Size: 4249 bp

RefSeq ORF: 2514 bp

Locus ID: 288280

Cytogenetics: 11q11

MW: 93.2 kDa

Gene Summary: may play a role in olfactory neuron growth and organization [RGD, Feb 2006]