

## Product datasheet for **RR213674**

### **Ncam1 (NM\_031521) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ncam1 (NM_031521) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ncam1
Synonyms:	Cd56; N-CAM; N-CAM-1; Ncam; NCAM-1; NCAM-C; NCAMC
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide  
Sequence:

>RR213674 representing NM\_031521  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTGCGAACTAAGGATCTCATCTGGACTTTGTTTTCTCTGGAACTGCAGTTTCCTGCAGGTAGATA  
 TTGTTCCAGCCAAGGAGAAATCAGCGTTGGAGAGTCCAAATTCTTCTGTGTCAAGTGGCAGGAGATGC  
 CAAAGATAAGGACATCTCTGGTTCTCCCCAACGGGGAGAAACTGAGCCCAAACAGCAGCGGATCTCA  
 GTGGTGTGGAACGATGATGACTCCTCTACCCTCACCATCTACAACGCCAACATTGATGATGCCGGCATT  
 ACAAGTGCCTGGTACCCTGAAGACGGCACCCAGTCCGAGGCCACTGTCAATGTGAAGATCTTCCAGAA  
 GCTCATGTTCAAGAATGCGCCAACCCACAGGAGTTTAAGGAAGGGGAAGATGCTGTGATTGTCTGTGAT  
 GTGGTCAGCTCTCTGCCCAACCATCATCTGAAACACAAGGCCGAGATGTCATCTGAAAAAAGATG  
 TCCGGTTCATAGTCTATCCAACAACACTCTGCAGATCCGAGGCATCAAGAAAACAGATGAGGGCCTTA  
 CCGCTGTGAAGGCAGGATCCTGGCCCGGGGGAGATCAACTTCAAGGACATTCAGGTCAATGTGAATGTA  
 CCACCCACTGTCCAGGCCAGACAGAGCATCGTGAATGCCACTGCCAACCTGGGCCAGTCTGTACCCTGG  
 TGTGTGATGCCGATGGCTTCCCAGAGGCCACCATGAGCTGGACAAGGATGGGGAACCCATAGAGAAATGA  
 GGAGGAAGATGACGAGAAGCACATCTTCACTGACGACAGTTTCGGAGCTGACCATCAGGAATGTGGACAAA  
 AATGACGAAGCCGAATACGTCTGCATCGCTGAGAACAAAGGCTGGCGAGCAGGATGCCTCCATCCACCTCA  
 AGGTCTTCGAAAGCCAAAAACACCTATGTAGAGAATCAGACAGCCATGGAAGTACAGGAGCAAGTCAAC  
 TCTGACATGTGAAGCCTCCGGAGACCCATTCTTCCATCACCTGGAGAACGTCACCCGAAACATCAGC  
 AGTGAAGAAAAGGCATCGTGGACTCGACCAGAGAAGCAAGAGACTCTAGATGGGCACATGGTGGTACGCA  
 GCCATGCTCGTGTCTCCCTGACCCTGAAGAGCATCCAGTACACAGATGCTGGGAATACATCTGCAC  
 TGCCAGCAACACCATCGGCCAGGACTCCAGTCCATGTACCTTGAAGTTCAATATGCTCCCAAGCTCCAG  
 GGCCCTGTAGCTGTGTACACTTGGGAAGGGAACCAAGTGAACATCACCTGTGAGGTCTTTGCCTACCCAA  
 GTGCCACAATCTCTGGTTCGAGATGGCCAGTTGCTGCCAAGCTCCAACACAGCAATATCAAGATCTA  
 CAACACCCCATCTGCGAGCTATCTGGAGGTAACCCCTGATTCCGAAAATGACTTTGGAACTACAACCTGC  
 ACAGCGGTGAACCGTATTGGACAGGAGTCTTGGAAATTCATCTGGTTCAAGCAGATACACCATCTTCCC  
 CATCCATCGACCCGGTGGAAACATACTCCAGCACAGCACAGGTACAATTTGATGAGCCAGAAGCCACAGG  
 TGGAGTCCCATCTCAAATAAAGGCTGAGTGGAAAGTCGCTGGGTGAAGAAGCATGGCATTCCAAGTGG  
 TATGATGCCAAAGAAGCCAACATGGAAGGGATTGTCACCATCATGGCCCTGAAGCCTGAGACAAGGTACG  
 CGGTACGACTGGCGGCCCTCAACGGCAAGGGGCTGGGCGAGATCAGTGCAGCCACTGAGTTCAAGACACA  
 GCCAGTCCGGGAACCCAGCGCACCCAAGCTGGAAGGGCAGATGGGAGAGGACGGGAACTCCATCAAGGTG  
 AACCTGATCAAGCAGGATGACGGCGGCTCCCCATCAGACACTATCTGGTCAAGTACAGAGCGCTCGCCT  
 CCGAGTGGAAACCAGAGATCAGGCTCCCGTCCGGCAGTGACCACGTATGCTCAAGTCCCTAGACTGGAA  
 CGCCGAGTACGAAGTATATGTGGTAGCTGAGAACCAGCAAGGAAAATCCAAGGCAGCTCACTTCGTGTT  
 AGGACTTCAGCCCAGCCCAGGCCATCCCAGCCAATGGCAGCCCCACTGCAGGCTGAGCACAGGGCCCA  
 TTGTGGGCATCCTCATTGTCATTTTCGTCCTACTCCTGGTGGTCAATGGACATCACCTGCTACTTCTGAA  
 CAAGTGTGGCCTGCTCATGTGCATCGCTGTTAACCTGTGCGGCAAGCGGGCCCGAGCCAAGGGCAAA  
 GACATGGAGGAGGCAAGGCTGCTTTCTCGAAAGATGAGTCTAAAGAACCATTGTAGAGGTCCGAACGG  
 AGGAGGAACGGACTCAAACCATGACGGAGGGAAGCACACAGAGCCCAACGAGACCACCACTGACAGA  
 GCCCGAGAAGGCTCTGTAGAAACAAAGTCCGAGCCCCAGGAGTCAAGCAAGCCAGCGCCAACCTGAA  
 GTCAAGACGGTCCCAATGAAGCCACACAACGAAAGAGAATGAGAGCAAAGCA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR213674 representing NM\_031521  
Red=Cloning site Green=Tags(s)

MLRTKDLIWTLFFLGTAVSLQVDIVPSQGEISVGESKFFLCQVAGDAKDKDISWFSPNGEKLSPNQQRIS  
VWVNDSDSSTLIYNANIDDAGIYKCVVTAEDGTQSEATVNVKIFQKLMFKNAPTPQEFKEGEDAVIVCD  
VVSSLPPTIIWKHKGRDVLKDVRFIVLSNNYLQIRGIKKTDEGTYRCEGRILARGEINFKDIQVIVNV  
PPTVQARQSIVNATANLGQSVTLVCDADGFPEPTMSWTKDGEPIENEEDEDEKHIFSDSSELTI RNVDK  
NDEAEYVCIAENKAGEQDASIHLKVFAPKITYVENQTAMELEEQVTLTCEASGDPISITWRTSTRNIS  
SEEKASWTRPEKQETLDGHMVVRSHARVSSLTKSIQYTDAGEYICTASNTIGQDSQSMYLEVQYAPKLQ  
GPVAVYTWEQNQVNITCEVFAYPSATISWFRDQQLPSSNYSNIKIYNTPSASYLEVTPDSENDGNYNC  
TAVNRIGQESLEFILVQADTPSSPSIDRVEPYSSAQVQFDEPEATGGVPILKYKAEWKS LGEEAWHSKW  
YDAKEANMEGIVTIMGLKPETRYAVRLAALNGKGLGEISAATEFKTQPVREPSAPKLEGGMGEDGNSIKV  
NLIKQDDGGSPIRHVYLVKRALASEWKPEIRLPSGSDHVMLKSLDWNAEYEVVVAENQQGKSKAAHFVF  
RTSAQPTAIPANGSPTAGLSTGAIVGILIVIFVLLLVM DITCYFLNKCGLLMCIAVNLCGKAGPGAKGK  
DMEEGKAASFKDESKEPIVEVRTEEERTPNHDGGKHTEPNETTPLTEPEKGPVETKSEPQSEAKPAPTE  
VKTVPNEATQTKENESKA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

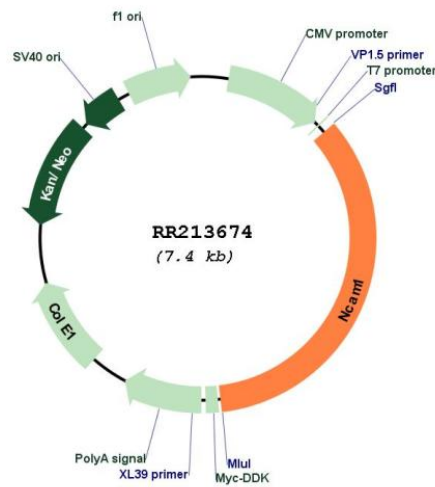
Cloning Scheme:

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

Plasmid Map:



<b>ACCN:</b>	NM_031521
<b>ORF Size:</b>	2574 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<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_031521.1</a> , <a href="#">NP_113709.1</a>
<b>RefSeq Size:</b>	3170 bp
<b>RefSeq ORF:</b>	2577 bp
<b>Locus ID:</b>	24586
<b>UniProt ID:</b>	<a href="#">P13596</a>
<b>Cytogenetics:</b>	8q23
<b>MW:</b>	94.7 kDa
<b>Gene Summary:</b>	cell adhesion molecule; involved in neuronal cell adhesion [RGD, Feb 2006]