

Product datasheet for **RR205108**

Ncstn (NM_174864) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ncstn (NM_174864) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ncstn
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide
Sequence:

>RR205108 representing NM_174864
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCTACGGCTAGGGCGGCTCTGGCCCTGACCCAGGAAGTCGGGGTCTCCTTCTCTGTCTTTTTCCG
TGGTACTAGCAGGATTGTGTGGGGAAACTCAGTGGAGAGGAAGATCTACATTCCTTAAATAAAACAGC
TCCTTGTGTCCGCTGCTCAATGCCACTCATCAGATTGGCTGCCAGTCTTCAATTAGTGGGGATACAGGG
GTTATCCACGTAGTGGAGAAAGAAGACGACCTGAAATGGGTATTGACGGATGGCCCCAACCCCTTACA
TGGTTCTGCTGGAGGGCAAGCTCTTACCAGAGATATAATGAAAAAGCTGAAGGGGGAAACCAGTAGAAT
CGCTGGTCTTGCCGTGACTCTAGCCAAGCCCAATTCAACGTCAAGCTTCTCTCCTAGCGTGCAGTGCCCA
AATGATGGGTTTGGTATTTACTCCAACCTCTATGGGCCAGAGTTTGTCTACTGCAAAAAAACATTGTGGA
ATGAACGGGCAATGGCTTGGCTTATGACGACTTCAGTTTCCCCATCTTCTTCTTGAAGATGAGAACGA
AACCAAGGTCATCAAGCAGTGCTATCAAGATCACAACTGGGTGAGAATGGCTCTGCACCGAGTTCCTCA
CTGTGTGCTATGACGCTCTTCTCACACATGCACGCCGTATCAGCACCGCCACCTGCATGCGACGCACT
TCATCCAGAGCACCTTACGATCAACCCAGAAATCGTCTGTGACCCCTTATCCGACTACAACGTATGGAG
CATGCTTAAAGCCTATAAATACGCTCTGGGGGATTAGAACCTGATGTGAGGGTTGTGGTTGCAGCCACACGG
CTGGATAGCCGGTCTTCTTCTGGAATGTGGCCCCAGGGGCAGAAAGTCCGTTGGCTCCTTTGTCACTC
AGCTGGCCGACGTGAAGCTTTGCACAAGGCACCTGATGTGACCAACCTACCCCGAAATGTGATGTTTGT
CTTCTTCCAGGGGAAACTTTGACTACATTGGCAGCTCAAGGATGGTCTATGACATGGAGAACGGCAAG
TTTCTGTGCGGCTAGAGAACATTGACTCCTTTGTGGAGCTGGGCAGGTGGCCTAAGGACGCTCACTAG
AACTCTGGATGCACAGATCCTATGTCTCAGAAAAATGAATCTGTGAAGAACCAGTGGAGGATCTTCT
GGTCACTCTGGAGCAGAGTGGTGTGATACCCCTCAAGTTGTCCTGAGCAGACTAGTCCAGTCCCAGGCC
CTTCCACCATCATCTCTACAACGATTTCTCGGGCTCGAAACATCTCTGGTGTGGTCTTGGCTGACCACT
CTGGTTCTTCCACAATCGGTATTACCAGAGCATTATGACACTGCTGAGAACATTAACGTGACCTATCC
TGAGTCGAGAGCCAGAAAGAGGACCTCAACTTTGTAACAGACTGCCAAGGCACTGGCAGATGTTGCC
ACAGTGTGACGAGCTTTGTACAAGCTTGCAGGAGGAACCAACTTCAACAACCTCATTAGGCTGATC
CCCAGACAGTTACAGTCTGCTCTATGGGTTCTGGTCAAGCTAACAACCTCATGGTTTCAGTCTATCCT
CAGACATGATCTGAGTCTATTTGGATGATGGGCTCTTCAACTACATCGTGTCTCCAGCCCTACC
AACACGACTTACGTTGTGAGTATGCCTTGGCAAACCTGACTGGCAAGGTGACCAACCTCACCAAGAGC
AGTGCCAGGATCCAAGTAAAGTCCCAAATGAAAGCAAGGATTTGTATGAATACTCGTGGGTACAAGGCC
TTGGAATTCACAAGACAGAGCGGCTCCCACGGTGTGTGCGCTCCACAGTACGACTGGGTAGGGCCTTG
TCCCCGCTTTGAGCTGAGTCACTGGAGCTCCACAGAATACTCTACGTGGGCGGAGAGCCGCTGGAAA
ATATCCAAGCTCGGATATTCCTCATTGCCAGAAAGAACTTGAGTTCATCACGCTGATCGTGGGCTTCA
CATCCTCGTCTTTCTCTCATCGTCACTTATTGTATCAACGCCAAGGCCGATGTCCTTTTCGTGCTCCC
CGAGAGCCAGGAGCTGTGCTTAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR205108 representing NM_174864
 Red=Cloning site Green=Tags(s)

MATARGGSGPDPGSRLLLLSFSVVLAGLCGGNSVERKIYIPLNKTAPCVRLNATHQIGCQSSISGDTG
 VIHVVKEEDDLKWLTDGPNPPYMVLLLEGKLFTRDIMEKLGKETSRIAGLAVTLAKPNSTSSFPSVQCP
 NDGFGIYSNSYGPFAHCKKTLWNELGNLAYDDFSFPIFLLEDENETKVIKQCYQDHNLGQNGSAPSF
 LCAMQLFSMHAVISTATCMRRSFIQSTFSINPEIVCDPLSDYVWVSMKLPINTSGGLEPDVRRVVAATR
 LDSRSFFWNVAPGAESAVASFTQLAAAEALHKAPDVTTLPNNVVFVFFQGETFDYIGSSRMVYDMENK
 FVRLNIDSFVELGQVALRTSLELWMHTDPMSQKNESVKNQVEDLLVTLEQSGADTPQVVL SRLVQSQA
 LPPSSLQRFLRARNISGVVLADHSGSFHNRYYSIYDTAENINVTYPESQSPEEDLNFTVDTAKALADVA
 TVLARALYKLAGGTNFNNSIQADPQTVTRLLYGFLVRANNSWFQSILRHDLRSYLDGGLQHYIAVSPT
 NTTYVVQYALANLTGKVTNL TQECCQDPSKVPNESKDL YEYSWVQGPWNSNKTERLPRCVRSTVRLARAL
 SPAFELSQWSSTEYSTWAESRWKDIQARIFLIASKELEFITLIVGFSILVFSLIVTYCINAKADLVFVAP
 REPGAVSY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

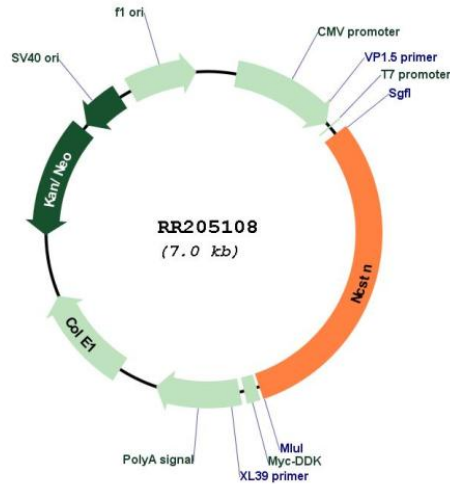
Sgfl-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_174864

ORF Size: 2124 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_174864.3](#), [NP_777353.1](#)

RefSeq Size: 2915 bp

RefSeq ORF:	2127 bp
Locus ID:	289231
UniProt ID:	<u>Q8CGU6</u>
Cytogenetics:	13q24
MW:	78.4 kDa
Gene Summary:	component of the gamma-secretase complex, which catalyzes the cleavage of amyloid precursor protein APP [RGD, Feb 2006]