

Product datasheet for **MG210183**

Ncstn (NM_021607) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ncstn (NM_021607) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ncstn
Synonyms:	9430068N19Rik; AA727311; Aph2; D1Dau13e; Kiaa0253; mKIAA0253; Nct
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>MG210183 representing NM_021607
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCTACGACTAGGGCGGCTCTGGCCCTGACCCAGGAAGTCGGGGTCTTCTTCTGTCTTTTTCCG
 TGGTACTGGCAGGATTGTGTGGGGAAACTCAGTGGAGAGGAAAACTACATTCCCTTAAATAAAACAGC
 TCCTTGTGTCCGCTGCTCAACGCCACTCATCAGATTGGCTGCCAGTCTTCAATTAGTGGGGATACAGG
 GTTATCCACGTAGTGGAGAAAGAAGAAGACCTGAAGTGGGTGTTGACCGATGGCCCAACCCCTTACA
 TGGTTCTGCTGGAGGGCAAGCTCTTACCAGAGATGTAATGGAGAAGCTGAAGGGAAACAACAGTAGAAT
 CGCTGGTCTTGCCGTGACTCTAGCCAAGCCAACTCAACTTCAAGCTTCTCCTAGTGTGCAGTGCCCA
 AATGATGGGTTTGGTATTTACTCCAACCTCTACGGCCAGAGTTTGTCTACTGCAAGAAAACACTGTGA
 ATGAACGGGCAACGGCTTGGCTTATGAAGACTTTAGTTTCCCCATCTTCTTCTTGAAGATGAGAACGA
 AACCAAGTTCATCAAGCAGTGTATCAAGATCACAACTGGGTGAGAATGGCTCTGCACCAAGCTTCCCA
 TTGTGTGCTATGCAGCTCTTCTCACACATGCACGCCGTATCAGCACTGCCACCTGCATGCGGGCAGCT
 TCATCCAGAGCACCTTACGATCAACCCAGAAATCGTCTGTGACCCCTTATCTGACTACAACGTATGGAG
 CATGCTTAAAGCCTATAAATACATCTGTGGGACTAGAACCTGACGTGAGGGTTGTGGTTGCGGCCACACGG
 CTGGATAGCCGGTCTTTTTCTGGAATGTGGCCCCAGGGGCTGAAAGTGTGTAGCCTCCTTTGTCACTC
 AGCTGGCTGCAGCTGAAGCTTTGCACAAGGCACCTGATGTGACCACTCTATCCCGAAATGTGATGTTTGT
 CTTCTCCAGGGGAAACTTTTACTACATTGGCAGCTCACGGATGGTCTATGATATGGAGAACGGCAAG
 TTTCCCGTGGCGCTCGAGAACATCGACTCCTTCGTGGAGCTGGGACAGGTGGCCCTAAGAAGTCACTAG
 ATCTCTGGATGCACAGATCCCATGTCTCAGAAAAATGAGTCTGTGAAAAACAGGTGGAGGATCTTCT
 GGCCACTCTGGAGAAGAGCGGTGCTGGTCCCTGAAAGTTGTCCTGAGGAGACTGGCCAGTCCCAGGCC
 CTTCACCTTCTCTCAACGATTTCTCGGGCTCGAAACATCTCTGGCGTGGTCTGCTGACCACT
 CTGGCTCCTTCCACAATCGGTATTACCAGAGCATTATGACACGGCTGAGAACATTAATGTGACCTATCC
 TGAGTGGCAGAGCCAGAAGAGGACCTCAACTTTGTGACAGACTGCCAAGGCACTGGCGAATGTGGCC
 ACAGTGTGGCGGTGACTGTATGAGCTTGCAGGAGGAACCAACTTCAGCAGCTCCATCCAGGCTGATC
 CCCAGACAGTTACAGTCTGCTCTATGGGTTCTGGTTAAAGCTAACAACATCATGGTTTCAGTCGATCCT
 GAAACATGACCTAAGTCTATTTGGATGACAGGCCTCTTCAACTACTACATCGCCGTCTCCAGCCCTACC
 AACACGACTTACGTTGTGCAGTACGCCTTGGCAAACCTGACTGGCAAGGCGACCAACCTCACCCGAGAGC
 AGTGCCAGGATCCAAGTAAAGTCCCAAATGAGAGCAAGGATTTATGAATACTCGTGGGTACAAGGCC
 TTGGAATTCACAAGGACAGAGAGGCTCCACAGTGTGTGCGCTCCACAGTGCAGTGGCCAGGGCCTTG
 TCCCTGCCTTTGAACTGAGTCACTGGAGCTCCACAGAATACTCTACGTGGGCGGAGAGCCGCTGGAAA
 ACATCAAAGCTCGGATATTCCTAATTGCCAGCAAAGAGCTTGAGTTCATCACGCTGATCGTGGGCTTCA
 CATCTTATCTTCTCTCATCGTCACTACTGCATCAATGCCAAAGCCGACGTCCTTTTTGTGCTCCC
 CGAGAGCCAGGAGCTGTGCTTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG210183 representing NM_021607
 Red=Cloning site Green=Tags(s)

MATTRGGSGPDPGSRGLLLL SFSVVLAGLCGGNSVERKIYIPLNKTAPCVRLLNATHQIGCQSSISGDTG
 VIHVVKEEDLKWVLTGPNPPYMVLLLEGKLFTRDVMKLGKTT SRIAGLAVTLAKPNSTSSFSPSVQCP
 NDGFGIYSNSYGPFAHCKKTLWNELGNGLAYEDFSFPIFLLEDENETKVIKQCYQDHNLGQNGSAPSPF
 LCA MQLF SHMHAVISTATCMRRSFIQSTFSINPEIVCDPLSDYNVWSMLKPINTSVGLEPDVRRVVAATR
 LDSRSFFWNVAPGAESAVASFVTQLAAAEALHKAPDVTTL SRNVMFVFFQGETFDYIGSSRMVYDMENK
 FVRL ENIDSFVELGQVALRTSLDLWMHTDPMSQKNESVKNQVEDLLATLEKSGAGVPEVVLRRLAQSQA
 LPPSSLQRFLRARNISGVVLADHSGSFHNRYYSIYDTAENINVTYEWQSPEDLNFVTD TAKALANVA
 TVLARALYELAGGTNFSSSIQADPQTVTRLLYGFLVKANNSWFQSILKHDLSYLD DRPLQHYIAVSPT
 NTTYVVQYALANLTGKATNL TREQCQDPSKVPNESKDLYEYSWVQGPWNSNRTERLPQCVRSTVRLARAL
 SPAFELSQWSSTEYSTWAESRWKDIQARIFLIASKELEFITLIVGFSILIFSLIVTYCINAKADLVFVAP
 REPGAVSY

TRTRPLE - GFP Tag - V

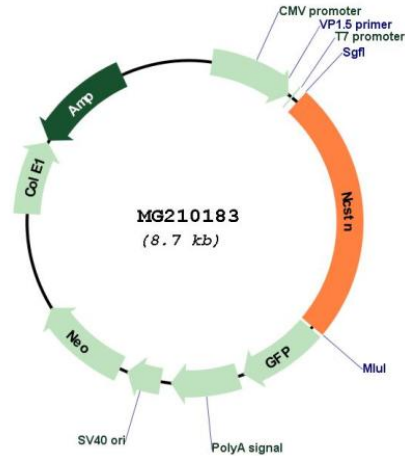
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_021607

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_021607.2](#), [NP_067620.2](#)

RefSeq Size: 2731 bp

RefSeq ORF: 2127 bp

Locus ID: 59287

UniProt ID: [P57716](#)

Cytogenetics: 1 79.54 cM

Gene Summary: Essential subunit of the gamma-secretase complex, an endoprotease complex that catalyzes the intramembrane cleavage of integral membrane proteins such as Notch receptors and APP (amyloid-beta precursor protein). The gamma-secretase complex plays a role in Notch and Wnt signaling cascades and regulation of downstream processes via its role in processing key regulatory proteins, and by regulating cytosolic CTNNB1 levels.[UniProtKB/Swiss-Prot Function]