

Product datasheet for **MC200417**

Nsg1 (NM_010942) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nsg1 (NM_010942) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Nsg1
Synonyms:	m234; Neep21; p21
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC008272 sequence for NM_010942
 CCGACGCGTGGGCTGAGCCTCGGAGCGCGCTTGGAGCCAGATCTTCCGGAGCCAGGCGTGGGGCCGCGAG
 CCTCGTGTCTTTCGCAACCATGGTGAAGTTGGGGAATAATTTTCGAGAGAAGGGCACCAAGCAGCCACTG
 CTGGAGGATGGCTTCGACACCATTCTTTGATGACGCCCTCGATGTCAACCAGCTGCAGTTCCCACCCC
 CAGATAAGGTCGTGGTGAAGAACTAAGACTGAATATGAACCTGATCGCAAAAAGGAAAAGCACGTCCTCC
 CAAGATAGCCGAGTTCACCGTCAGCATCACCGAGGGTGTACCGAGAGGTTTAAGGTCTCCGTGCTGGTC
 CTCTTTGCCCTGGCCTTCTCACCTGTGTCTTCTCTGGTTGTCTACAAAGTGTACAAGTATGACCGGA
 CCTGCCCTGATGGGTTTGTCTTGAAGAACCACCGAGTGCATCCCAGAAGGCTTGGAGAGCTACTACACGGA
 GCAAGACTCCAGTGCCCGGAGAAATTTTACACTGTCATAAACCACTACAACGTGGCCAAGCAGAGCATC
 ACCCGCTCCGTGTGCGCATGGATGTCAGTCTGTGTCAGAAAGAGCTGTGGAACAGGAGACCGAAGCTG
 CAGAGAAGTCAGCTTAGCGAGCAGGGCAGGTTCTTACGATGTGTCACTTGAAGGCAACAAGGGGACTTT
 GAGGGACATTTTCAAATAATAATTACCGATAATTTAGAGATTACTATTTACGGTGCAATTTGCTTCTGT
 TTGCTAATGCTGCTTTGCAAATTAAGTGTGCTGCGGACCACCCACAGGCGTAAGAACAAGAGCATCTCAG
 CATTGCTTAGAGAGCTGGATGCCACTGTCCACGCTGAGGAGTCTTCAATTTAGCTCCTTCCCTGGGATTCA
 CTGGATACTGTCAAAGTAATCTACACTGGCTATGCCAGGGTCTGGCCGTGAGAACAGCACAGCTGCT
 GGTTTCTGTTTTCTTTTCTGCCCTTTGCTATCTGCAGACCTTACTCCAATAGCCATATCTAGAGTGATC
 CCGTGCTTTTGTGGTGGCAGTGTGACTGTCAACATGCACTGTTGAGCGGCGCAGAGAAGGGGACGTGG
 GCACCACGACGCAGCCCTGCCAGGCAATTTCTGGGAGGTTCTTTTGGTATGTCCCCTGAGCAGAGACAA
 GGATGGGGTGGGGAAGAGCTGGCTCTGGGCTAGGGGGTCCCGAGCCTGTTTCTGTGGGTGGGCTGTC
 TGCTGGTAATGTGCTAGGTAGGAAGAAAGCCACTGGTTCTTTTCTTTCTGTTATGAATATATTTGCAC
 GTACAGCCCTGAATGCAGGTGCAGTTTGGGTTTTTGTGTTTTGTTTTGTTTTATTAGCCAGTGGGC
 AAAGTGAATGTAATTTTGGGTAAGCCAGGGCTACTTTAGCTTTTCTTGTGACAGATGTGACTCCTG
 TGCTGTGGGAAGGGCAGGAGCGCTGGTGGGGGGGCTGATGTGGCACCTTGCAAAATAGAATATCTAAGT
 CCACAATCTTTGTAAAGAAAGTATGTTTATGTTTCAATCTGAATCTTGACATTAAGTATATGTTTACAA
 AATCACCAGTAGGTAAACTAAATGTGTAAGACAATTAATAGAAAAGCTATTCTGATTGTTTTCTTCC
 ATGTTCTCAGAATGTGTTGTTTCTGGTGGGCATGTGAGAAGTCTCGGCGTCTTTAGTAGGTCAGAAATA
 AATGGCAAATAGTCTGAGACCTTTGTGAACAAGCATGGTGGCCACCATCAGCTCCACTGTGCTTCTGA
 GGTGTGCTACTGAGACAACATCATGTATTGTTGAGGTGTTCTAAAACAAAGGGCATGAGCTCAGCACAGG
 GGGAGGGGCCACACAGTCACGAGCTTGAAGTGCATTGGAAGCTGCGAGGAATGCGCAAAGGCAATACA
 CATGTGCCAAAATTTGTCTGTAGAGGGATCCGACTCATGGCCGTGTGCGTGCAGTAGGCAGGCCCTCTG
 TGTTTTCTAACGTAGCCCTTACCCTACTGTGAACCTCCCAATGTAATTTCTCATTTTTACTCTACAAAT
 AAAGAGCTCGTGGTACTTAAGCCGCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

- Restriction Sites:** RsrII-NotI
- ACCN:** NM_010942
- Insert Size:** 558 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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: [BC008272](#), [AAH08272](#)

RefSeq Size: 2152 bp

RefSeq ORF: 558 bp

Locus ID: 18196

UniProt ID: [Q62092](#)

Cytogenetics: 5 20.21 cM

Gene Summary: Plays a role in the recycling mechanism in neurons of multiple receptors, including AMPAR, APP and L1CAM and acts at the level of early endosomes to promote sorting of receptors toward a recycling pathway (PubMed:15187090, PubMed:12070131, PubMed:21084623, PubMed:16037816). Regulates sorting and recycling of GRIA2 through interaction with GRIP1 and then contributes to the regulation of synaptic transmission and plasticity by affecting the recycling and targeting of AMPA receptors to the synapse (PubMed:16037816). Is required for faithful sorting of L1CAM to axons by facilitating trafficking from somatodendritic early endosome or the recycling endosome (By similarity). In an other hand, induces apoptosis via the activation of CASP3 in response to DNA damage (By similarity).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. All four variants encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.