

Product datasheet for **MC200036**

Nus1 (NM_030250) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nus1 (NM_030250) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Nus1
Synonyms:	1600027K07Rik; AU019165; AW538011; BC003223; D10Ert438e
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC003223 sequence for NM_030250 CCCACGCGTCCGGTTGGCAGTGGCGAGGGGCTCGGGCGCGGGGGTGGGGGACGCGGAGCGATGGCCCC CGCCGGCCGCTGGGGCGGATAAGACCCTGTCGCGCCGGGTGTGGCCGGAGGGAGGTGACGGTGCCCCG AGCGCCACAGGAGTATGACGGGGCTGTACGAGCTGGTGTGGCGGGTGTCTGCACGCGCTGCTCGCTGCA CCTCACGCTCACCTCCTGGCTCCGCGTTTCGCTTCGGCACCTGGAAGTGGATCTGGCGGCGCTGCTGTGCG GCCGCTCCGCGCGGTCTAGCGCCGCTCGGCTTACGCTCCGCAAGCCCCGGGCCGTCGGCAGGAACC GGCGTCATCACCGGCACCCGCACGGGGACCGGGACCGGGACCGGGACCGGGACCGGCCACCCATCCTCGGT GCGCTGGCGCGCGGACGTCCGGTCCCTGCAGAAGCTGCCGGTGCACATGGGCCTGTTGGTCACGGAGGAA GTGCAGGAGCCCAGCTTCTCAGACATCGCCAGCCTCGTGGTGTGGTGTATGGCCGTGGGGATCTCCTACA TTAGCGTCTACGACCACCAAGGATTTTTCAAGAGAAATAATTCCAGATTGATGGATGAAATTTTAAAAACA GCAACAGGAACTTTGGCCAAGATTGTTCCAAATACTCAGCAGAGTTTGCAAATAGTAATGACAAAGAC GATCAAGATTTAAATTGCCCTTCGGCAGTGAAGGTGCTGTCCCCAGAAGATGGAAAAGCGGATATTGTGA GAGCTGCCAGGATTTTTGCCAGTTAGTAGCCAGCAGCAGAGGAAGCCACAGATCTGGATGTAGATCT GCTAGGACGCTTACTTAGTTCACATGGGTTCCCTGATCCTGACTTAGTGTGAAGTTTGGTCTGTGGAC AGCACATTAGGCTTTCTCCCTGGCAAATCAGATTGACTGAGATCGTCTCTCTGCCTTCTCACCTAAACA TCAGCTATGAGGACTTCTTCCGCCCTTCGGCAGTATGCAGCTTGCGAACAGCGACTGGGAAAGTAATG GTCCTACTTGCATAATTTGACTTCAGGCTTTTGGAGAAAAAGGCCAACAGTGACACTGATGTTTACAAA GTACCTATAAAACCCTGTACACACCTAAAAAAAAAAAAAAAAAAAAAAAAAAAA
Restriction Sites:	RsrII-NotI
ACCN:	NM_030250
Insert Size:	894 bp



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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:	<ol style="list-style-type: none">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:	<u>BC003223</u> , <u>AAH03223</u>
RefSeq Size:	1168 bp
RefSeq ORF:	894 bp
Locus ID:	52014
UniProt ID:	<u>Q99LJ8</u>
Cytogenetics:	10 26.64 cM
Gene Summary:	With DHDDS, forms the dehydrodolichyl diphosphate synthase (DDS) complex, an essential component of the dolichol monophosphate (Dol-P) biosynthetic machinery. Both subunits contribute to enzymatic activity, i.e. condensation of multiple copies of isopentenyl pyrophosphate (IPP) to farnesyl pyrophosphate (FPP) to produce dehydrodolichyl diphosphate (Dedol-PP), a precursor of dolichol phosphate which is utilized as a sugar carrier in protein glycosylation in the endoplasmic reticulum (ER). Regulates the glycosylation and stability of nascent NPC2, thereby promoting trafficking of LDL-derived cholesterol. Acts as a specific receptor for the N-terminus of Nogo-B, a neural and cardiovascular regulator. [UniProtKB/Swiss-Prot Function]