

Product datasheet for MR201875

Nus1 (NM_030250) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Nus1 (NM_030250) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Nus1
Synonyms: 1600027K07Rik; AU019165; AW538011; BC003223; D10Ert438e
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR201875 representing NM_030250
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCCTGTTGGTCACGGAGGAAGTGCAGGAGCCAGCTTCTCAGACATCGCCAGCCTCGTGGTGTGGT
GTATGGCCGTGGGATCTCCTACATTAGCGTCTACGACCACCAAGGATTTTCAAGAGAAATAATCCAG
ATTGATGGATGAAATTTTAAAACAGCAACAGGAACCTTTGGGCCAAGATTGTTCCAAATACTCAGCAGAG
TTTGCAAATAGTAATGACAAAGACGATCAAGATTTAAATTGCCCTTCGGCAGTGAAGGTGCTGTCCCCAG
AAGATGGAAAAGCGGATATTGTGAGAGTGCCAGGATTTTGGCAGTTAGTAGCCAGCAGCAGAGGAA
GCCACAGATCTGGATGTAGATCTGCTAGGCAGCTTACTTAGTTCACATGGGTTCCCTGATCCTGACTTA
GTGTTGAAGTTTGGTCCTGTGGACAGCATTAGGCTTCTTCCCTGGCAAATCAGATTGACTGAGATCG
TCTCTCGCTTCTCACCTAAACATCAGCTATGAGGACTTCTTCTCCGCCCTTCGGCAGTATGCAGCTTG
CGAACAGCGACTGGGAAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR201875 representing NM_030250
Red=Cloning site Green=Tags(s)

MGLLVTEEVQEPSFSDIASLVVWCMVAGISYISVYDHQIFKRNN SRLMDEILKQQQELLGQDCSKYSAE
FANSNDKDDQDLNCP SAVKVLSPEDGKADIVRAAQDFCQLVAQQQRKPTDLVDLLGSLSSHGFPDPL
VLKFGPVDSTLGF LPWQIRL TEIVSLPSHLNISYEDFFSALRQYAACEQRLGK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

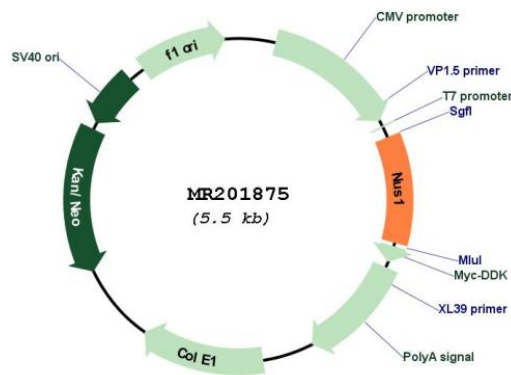


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Cloning Scheme:



Plasmid Map:



ACCN: NM_030250

ORF Size: 579 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 Size: 4614 bp

RefSeq ORF: 894 bp

Locus ID: 52014

UniProt ID: [Q99LJ8](#)

Cytogenetics: 10 26.64 cM

MW: 21.5 kDa

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]