

Product datasheet for **MG204126**

Nus1 (NM_030250) Mouse Tagged ORF Clone

Product data:

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|---------------------------|-----------------------------------------------------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | Nus1 (NM_030250) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Nus1 |
| Synonyms: | 1600027K07Rik; AU019165; AW538011; BC003223; D10Ert438e |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >MG204126 representing NM_030250 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACGGGGCTGTACGAGCTGGTGTGGCGGGTGCACGCGCTGCTCTGCCTGCACCTCACGCTCACCT
CCTGGCTCCGCGTTCGCTTCGGCACCTGGAAGTGGATCTGGCGGCGCTGCTGTCGCGCCGCTCCGCCGC
GGTCTAGCGCCGCTCGGCTTCACGCTCCGAAGCCCCGGCCGTCGGCAGGAACCGGCGTCATCACCGG
CACCCGCACGGGGACCGGGACCGGGACCGGGACCGGCCACCCATCCTCGGCTGCGTGGCGCGCGG
ACGTCCGGTCCCTGCAGAAGCTGCCGGTGCACATGGGCCTGTTGGTCACGAGGAAGTGCAGGAGCCCAG
CTTCTCAGACATCGCCAGCCTCGTGGTGTGGTGTATGGCCGTGGGATCTCCTACATTAGCGTCTACGAC
CACCAAGGTATTTTCAAGAGAAATAATTCCAGATTGATGGATGAAATTTAAAACAGCAACAGGAACTTT
TGGCCAAGATTGTTCCAATACTCAGCAGAGTTTGCAAATAGTAATGACAAAGACGATCAAGATTTAAA
TTGCCCTTCGGCAGTGAAGGTGCTGTCCCAGAAGATGGAAAAGCGGATATTGTGAGAGCTGCCAGGAT
TTTTGCCAGTTAGTAGCCAGCAGCAGAGGAAGCCACAGATCTGGATGTAGATCTGCTAGGCAGCTTAC
TTAGTTACATGGGTTCCCTGATCCTGACTTAGTGTGAAGTTTGGTCTGTGGACAGCATTAGGCTT
TCTTCCCTGGCAAATCAGATTGACTGAGATCGTCTCTCGCCTTCTCACCTAAACATCAGCTATGAGGAC
TTCTTCCGCCCTTCGGCAGTATGCAGCTTGCGAACAGCGACTGGGAAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204126 representing NM_030250
 Red=Cloning site Green=Tags(s)

MTGLYELVWRVLHALLCLHLTLTSWLRVRFGTWNWIWRRCCRAASA AVLAPLGFTLRKPRAVGRNRRHHR
 HPHGGPGPGPAATHPRLRWRADVRS LQKLPVHMGLLVTEEVQEP SFDIASLVVWCMAVGISYISVYD
 HQGIFKRNN SRLMDEILKQQQELLGQDCSKYSAEFANSNDKDDQDLNCP SAVKVLSPEDGKADIVRAAQD
 FCQLVAQQQRKPTDLDVDLLGSL LSSHGFDPDLVLKFGPVDSTLGF LPWQIRL TEIVSLPSHLNISYED
 FFSALRQYAACEQRLGK

TRTRPLE - GFP Tag - V

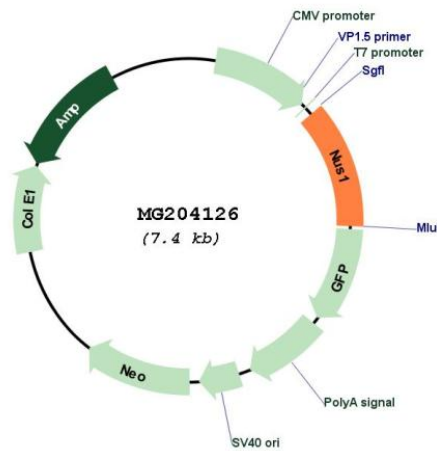
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_030250

ORF Size: 891 bp

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| 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: | <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: | NM_030250.2 , NP_084526.1 |
| RefSeq Size: | 4614 bp |
| RefSeq ORF: | 894 bp |
| Locus ID: | 52014 |
| UniProt ID: | Q99LJ8 |
| 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] |