

Product datasheet for **MG207771**

Nle1 (NM_145431) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nle1 (NM_145431) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nle1
Synonyms:	AL022765; BC018399; I11Jus1; I11Jus4; Nle
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207771 representing NM_145431
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGGCGGTGGTGAAGAGGCGGGCAGCGACGTGCAGCGGCTGCTCGTACAGTTCCAGGATG
 AGGGCGGTGAGCTGCTGGGCTCCCCGTTGACGTGCCCGTGGACATCACGCCGGACAAGCTGCAGCTGGT
 GTGCAACGCGCTGCTGGCCAGGAGGAGCCCTGCCCTGGCGTTCTATGTCCACGATGCTGAGATTGTG
 TCCTCCCTGGGAAGACGCTGGAGTCCCAGTCTGTGGAGACAGAGAAAATCGTCGATATCATCTACCAGC
 CCCAAGCTGTCTCAGGGTCCGGCTGTGACGCGGTGCACCAGCTCATTGGAGGGTACACGGAAGCTGT
 CATTCTGTGGCCTTCAGCCCCACAGAAAGTACCTGGCCAGTGGTCCGGAGACACCACTGTGCCTTC
 TGGGATCTCAGCACTGAGACACCGCACTCACATGCAAAGGACACCGCACTGGGTCCTTAGCATATCCT
 GGTCCCAGATGGCAAGAACTGGCCTCAGGCTGCAAGAAATGGCCAGATTCTGCTGTGGACCAAGCAC
 GGGGCTGCAGGTGGCAGGACCCTCACTGGCCACAGCAAATGGATCACAGCCTGAGCTGGGAGCCCTT
 CACATGAACCCCGAGTGCCTGCTACGTGGCCAGCAGCTCCAAGACGGCAGTGTACGAGTCTGGGATACAA
 CCGCAGGCCGCTGTGAACGCATCCTCACGGGACACACGAGTCACTCACCTCCGATGGGGAGGAGA
 TGGGCTTCTATATTCTGCTTCCCAGGACCGAACCATCAAAGTCTGGAGGGCCATGACGGTGTGCTGTG
 CGTACTCTTCAAGGTCATGGCCACTGGGTGAACACCATGGCGCTTAGCACAGACTATGCCCTGCGCACAG
 GGGCCTTTGAGCCTGCTGAAGCCACAGTGAATGCCAAGACCTGCAGGGGTCCTTGAAGGAGCTGAAGGA
 GAGGGCATCGAGCCGCTACAACCTCGTGGGGGCAAGGCCAGAGAGGCTGGTCTCTGGCTCAGACGAC
 TTCACCTATTCTGTGGTCCCCAGCAGAGGACAAGAAGCCCTCGCCCGATGACAGGACACCAAGGCC
 TCATCAACCAGGTGCTCTTCTCTCTGACTCGCGCATCGTGGCCAGTGCCTCCTTCGACAAGTCTATCAA
 GCTGTGGGATGGCCGGACGGGCAAGTACCTAGCTTCCCTGCGTGGCCACGTGGCAGCCGTGTACCAGATT
 GCCTGGTCACTGACAGCCGACTATTAGTCAGCGGACGAGTGCAGCACGCTGAAGGTGTGGGATGTGA
 AGGCCAGAACTGGCCACGGACCTGCCTGGCCATGCCGATGAGGTATATGCTGTTGACTGGAGTCCAGA
 TGGCCAGAGAGTAGCAAGCGGGGAAAGACAAGTGCCTCCGGATATGGAGAAGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG207771 representing NM_145431
 Red=Cloning site Green=Tags(s)

MAAAVVEEAAAGDVQRLLVQFQDEGGQLLGSFPDVPVDITPKLQLVCNALLAQEEPLPLAFYVHDAEIV
 SSLGKTLESQSVETEKIVDIIYQPQAVFRVRAVTRCTSSLEGHSEAVISVAFSPTGKYLASGSDTTVRF
 WDLSTETPHFTCKGHRHWLISISWSPDGKKLASGCKNGQILLWDPSTGLQVGRITLGHKSKWITGLSWEPL
 HMNPECRYVASSSKDGSVRVWDTTAGRCERILTGHTQSVTCLRWGGDGLLYSASQDRTIKVWRAHDGVL
 RTLQGHGHWNMTALSTDYALRTGAFEPAEATVNAQDLQGSCLKELKERASSRYNLVRGQGPRLVSGSDD
 FTLFLWSPAEDKKPLARMTGHQALINQVLFSPDSRIVASASFDKSIKLWDGRTGKYLASLRGHVAAVYQI
 AWSADSRLLVSGSSDSTLKVWDVKAQKLATDLPGHADEVYAVDWSPDGQQRVASGGKDKCLRIWRR

TRTRPLE - GFP Tag - V

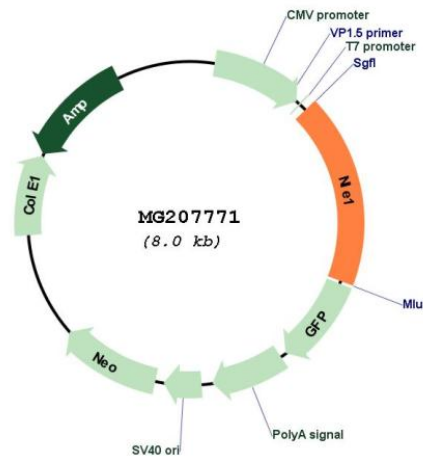
Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



Plasmid Map:



ACCN: NM_145431

ORF Size: 1455 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_145431.1](#), [NP_663406.1](#)

RefSeq Size: 1784 bp

RefSeq ORF: 1458 bp

Locus ID: 217011

UniProt ID: [Q8VEI4](#)

Cytogenetics: 11 C

Gene Summary: Plays a role in regulating Notch activity (Probable). Plays a role in regulating the expression of CDKN1A and several members of the Wnt pathway, probably via its effects on Notch activity. Required during embryogenesis for inner mass cell survival.[UniProtKB/Swiss-Prot Function]