

## Product datasheet for **MC227760**

### **Nprl3 (NM\_001284360) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Nprl3 (NM_001284360) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Nprl3
Synonyms:	Aag; CGTHBA; HS-26; HS-40; m(alpha)RE; Mare; Phg; Prox1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC227760 representing NM\_001284360  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGATTCTTTTTAACGTGGTATTTGCAGTGGGCAATGCTGATCCATCAGTGATAAACTGTCTACACA  
 ACTTGTCCCGCCGAATTGCTACTGTCCTGCAGCATGAGGAGCGCCGCTGCCAGTACCTCACTCGAGAGGC  
 CAAGCTGATCCTAGCACTTCAGGATGAGGTGTCTGCTATGGCTGATGCAAATGAAGGTCCTCAGTCCCCA  
 TTCCAGCACATCTACCAAGTGAAGCTGGCTCGGGACCTCAAAGAAGCTTATGACAGCCTGTGCACAT  
 CTGGTGTGGTACGGCTTACATTAACAGCTGGCTGGAAGTGAGTTTCTGTCTGCCCCACAAGATCCACTA  
 TGCAGCTTCAAGTCTGATTCTCTGAGGCTATTGAACGGAGCCTGAAAGCCATCCGCCGTACCATGCC  
 TTGCTACTTCTCAGTGACGAGAAGTCTCTGCTGAGTGAGCTTCCCATTGACTGCTCCCCGGCTCTGGTGC  
 GGGTGATCAAGACCACGTCTGCTGTGAAGAACCTGCAGCAGCTAGCCCAGGATGCCGATCTGGCCTTGT  
 GCAGGCTTCCAGTTGGCAGCTCACCTGGTATACTGGGGCAAGGCTGTCATCATCTACCCACTGTGTGAG  
 AACACGCTCTATGTCATGTCCTCCAATGCCAGTGTGTGTCTGTACTCCCCGCTAGCTGAACAGTTCTCCC  
 GGCAGTCCCCTGCCATGACCTGCCATCTGTCTGGCCAAGTTTTCTTGCTGTTTCTTTATCGGAGTT  
 CAGGAGCCCTCTGGCTCCCCCTGCACAGGAGACCCAGCTCATCCAGATGGTGGTGTGGATGCTGCAGCGC  
 CGGCTCCTCATCCAGCTGCATACCTATGTTTGCCTAATGGCCTCACCCAGCGAAGAGGAGCCCCGACTGC  
 GAGAGGATGATGTCCCCTTACAGCCAGAGTTGGTGGCCGAGCCTCAGCACACCCCAATGCTCTAAGCTT  
 TGGCTCCCCAACCCAGCAGTGACGACATGACCCTTACCAGCCCCAGTATGGACAACCAAGTGCTGAGCTG  
 CTCCCCAGTGGGGACTCACCACTGAACAAGAGGATGACAGAGAACCTGCTGGCTAGCCTCTCAGAGCATG  
 AGCGGGCTGCTATCCTCAATGTGCCTGCAGCCAAAACCCTGAGGACCTCCGCATGTTTGGCAGGCTCCT  
 TCACTACTTCCGTGGCCGCCACCATCTGGAGGAGATCATGTACAATGAGAACAACCTCGGCCGCTCCAGCTA  
 CTATGCTCTTTGACAAATTCGCAAGTGTGCTGGTGGTGACCACCCATGAGGACCCTGTTATTGCCGTCT  
 TCCAGGCACTGCTCACA**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001284360
- Insert Size:** 1350 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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\\_001284360.1](#), [NP\\_001271289.1](#)

**RefSeq Size:** 2735 bp

**RefSeq ORF:** 1350 bp

**Locus ID:** 17168

**UniProt ID:** [Q8VIJ8](#)

**Cytogenetics:** 11 18.83 cM

**Gene Summary:** As a component of the GATOR1 complex functions as an inhibitor of the amino acid-sensing branch of the TORC1 pathway. The GATOR1 complex strongly increases GTP hydrolysis by RRAGA and RRAGB within RRAGC-containing heterodimers, thereby deactivating RRAGs, releasing mTORC1 from lysosomal surface and inhibiting mTORC1 signaling. The GATOR1 complex is negatively regulated by GATOR2 the other GATOR subcomplex in this amino acid-sensing branch of the TORC1 pathway.[UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (3) lacks two alternate 5' coding exons, which causes translation initiation at a downstream start codon, compared to variant 1. The resulting isoform (3) is shorter at the N-terminus compared to isoform 1.