

## Product datasheet for **MC228373**

### **Nprl3 (NM\_001284359) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Nprl3 (NM_001284359) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Nprl3
Synonyms:	Aag; CGTHBA; HS-26; HS-40; m(alpha)RE; Mare; Phg; Prox1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC228373 representing NM\_001284359  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGGGACAATACCAGCCCATCAGCGTGATCCTGGTGAGCTCGGGCAGCAGGGCAATAAGCTGCTCT  
 TCAGGTACCCCTTCCAGAGGAGCCAGGAGCACCCCGCTCCAGACAAATAAACCACGGAGCAGATATGC  
 TGCAACAACACTGGCGAACATGCTGATGACCAGGACGGTGACTCCAGCAAGCCATGTCCTCCAACCGAT  
 GAGCAATTGGTTGCAGGGTTCTCGGATGTTATTCTGGCAACAATTTGGCAACCAAACTGAAATGTGCG  
 GCCAAAAATTTGAACTGAAGATTGATAATGTACGGTTTGTGGGCACCAACTGCTGCAGCATGCTCT  
 GGGGCAGTCTCCAAAACAGATCCATCTCAAAGCGGGAAGCTCCGACCATGATTCTTTTAACTGGTGA  
 TTTGCACTGAGGGCAATGCTGATCCATCAGTATAAAGTGTCTACACAATTGTCCCGCGAATTGCTA  
 CTGTCCTGCAGCATGAGGAGCGCCGCTGCCAGTACCTCACTCGAGAGGCCAAGCTGATCCTAGCACTTCA  
 GGATGAGGTGCTGCTATGGCTGATGCAATGAAGGTCTCAGTCCCCATTCCAGCACATCTACCCAAG  
 TGCAAGCTGGCTCGGGACCTCAAAGAAGCTTATGACAGCCTGTGCACATCTGGTGTGGTACGGCTTACA  
 TTAACAGCTGGCTGGAAGTGAGTTTCTGTCTGCCCCACAAGATCCACTATGCAGCTTCAAGTCTGATTCC  
 TCCTGAGGCTATTGAACGGAGCCTGAAAGCCATCCGCCCGTACCATGCCTTGCTACTTCTCAGTGACGAG  
 AAGTCTCTGCTGAGTGAGCTTCCATTGACTGCTCCCGGCTCTGGTGCGGGTGATCAAGACCACGTCTG  
 CTGTGAAGAACCTGCAGCAGCTAGCCCAGGATGCCGATCTGGCCTTGCTGCAGGTCTTCCAGTTGGCAGC  
 TCACCTGGTATACTGGGGCAAGGCTGTCATCATCTACCACTGTGTGAGAACAACGTCTATGTATGTCT  
 CCCAATGCCAGTGTGTCTGTACTCCCGCTAGCTGAACAGTTCTCCCGCAGTCCCGTCCCATGACC  
 TGCCATCTGTCTGGCCAAGTTTCTTGGCTGTTTCTTTATCGGAGTTCAGGAGCCCTCGGCTCCCC  
 TGCAAGGAGACCCAGCTCATCCAGATGGTGGTGTGGATGCTGCAGCGCCGGCTCCTCATCCAGCTGCAT  
 ACCTATGTTTGCCTAATGGCCTCACCCAGCGAAGAGGAGCCCGACTGCGAGAGGATGATGTCCCCTTCA  
 CAGCCAGAGTTGGTGGCCGACGCTCAGCACACCCAATGCTCTAAGCTTTGGCTCCCAACCAGCAGTGA  
 CGACATGACCCTTACCAGCCCCAGTATGGACAACCAAGTGTGAGCTGCTCCCAAGTGGGGACTCACCA  
 CTGAACAAGAGGATGACAGAGAACCTGTGGCTAGCCTCTCAGAGCATGAGCGGGCTGCTATCCTCAATG  
 TGCTGACGCCAAAACCCTGAGGACCTCCGCATGTTTGGCAGGCTCCTTCACTACTTCCGTGGCCGCCA  
 CCATCTGGAGGAGATCATGTACAATGAGAACACTCGGCGCTCCAGCTACTCATGCTCTTTGACAAATTC  
 CGCAGTGTGCTGGTGGTGACCACCCATGAGGACCTGTTATTGCCGTCTCCAGGCACTGCTCACATGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001284359
- Insert Size:** 1749 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\\_001284359.1](#), [NP\\_001271288.1](#)

**RefSeq Size:** 2904 bp

**RefSeq ORF:** 1749 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 (1) encodes the longest isoform (1).