

Product datasheet for **MC204836**

Nprl3 (NM_181569) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nprl3 (NM_181569) 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-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC064471
 CGGGCATGCGCGGGGGCTGTGGAGCGCCGCTCGGCGAAGTCTCGCGAGAGTGAGCGCCGAGGCCGAGGTG
 CCGGCTTCTCCTCGGTGTCCTGCGGGGCCGCGCCTGCCTTCGGCTTTTTCGGTCCCTACGCGAGTTCCTC
 TCAGGCGCACGCCGGGCTCCCGCAGGATGGGGACAATACCAGCCCATCAGCGTGATCCTGGTGAGCT
 CGGGCAGCAGGGGCAATAAGCTGCTCTTCAGGTACCCCTCCAGAGGAGCCAGGAGCACCCCGCTCCCA
 GACAAATAAACACGGAGCAGATATGCTGTCAACAACACTGGCGAACATGCTGATGACCAGGACGGTGAC
 TCCAGGTTCTCGGATGTTATTCTGGCAACAATTTGGCAACCAATCTGAAATGTGCGGCCAAAAATTTG
 AACTGAAGATTGATAATGTACGGTTTGTGGGCACCAACACTGCTGCAGCATGCTCTGGGCGAGGTCTC
 CAAAACAGATCCATCTCCAAAGCGGGAAGCTCCGACCATGATTCTTTTTAACGTGGTATTTGCACTGAGG
 GCCAATGCTGATCCATCAGTGATAAACTGTCTACACAACCTGTCCCGCGAATTGCTACTGCTCCTGCAGC
 ATGAGGAGCGCCGCTGCCAGTACCTCACTCGAGAGGCCAAGCTGATCCTAGCACTTCAGGATGAGGTGTC
 TGCTATGGCTGATGCAAATGAAGTCTCAGTCCCATTCAGCACATCTACCCAAGTGAAGCTGGCT
 CGGGACCTCAAAGAAGCTTATGACAGCCTGTGCACATCTGGTGTGGTACGGCTTCACATTAACAGCTGGC
 TGAAGTGAAGTTCTGTCTGCCCAACAAGATCCACTATGCAGCTTCAAGTCTGATTCTCCTGAGGCTAT
 TGACGGAGCCTGAAAGCCATCCGCCGTACCATGCCTTGTACTTCTCAGTGACGAGAAGTCTCTGCTG
 AGTGAGCTTCCATTGACTGCTCCCGGCTCTGGTGCAGGTGATCAAGACCACGTCTGCTGTGAAGAACC
 TGACAGCAGCTAGCCAGGATGCCGATCTGGCCTTGTGTCAGGTCTTCCAGTTGGCAGCTCACCTGGTATA
 CTGGGGCAAGGCTGTCATCATCTACCACTGTGTGAGAACAACGTCTATGTCATGCTCCCAATGCCAGT
 GTGTGCTGTAATCCCGCTAGCTGAACAGTCTCCCGGAGTCCCGTCCCATGACCTGCCATCTGTCC
 TGGCCAAGTTTTCTTGCCTGTTCTTTATCGGAGTTCAGGAGCCCTCTGGCTCCCCCTGCACAGGAGAC
 CCAGCTCATCCAGATGGTGGTGTGGATGCTGCAGCGCCGCTCCTCATCCAGCTGCATACCTATGTTTGC
 CTAATGGCCTCACCCAGCGAAGAGGAGCCCGACTGCGAGAGGATGATGTCCCTTCACAGCCAGAGTTG
 GTGGCCGAGCCTCAGCACACCAATGCTCTAAGCTTTGGCTCCCAACCAGCAGTGACGACATGACCT
 TACCAGCCCCAGTATGGACAACCTCAAGTGTGAGCTGCTCCCAAGTGGGACTCACCACTGAACAAGAGG
 ATGACAGAGAACCTGCTGGCTAGCCTCTCAGAGCATGAGCGGGCTGCTATCCTCAATGTGCTGCAGCCC
 AAAACCTGAGGACCTCCGCATGTTTGGCAGGCTCCTTCACTACTTCCGTGGCCGCCACCATCTGGAGGA
 GATCATGTACAATGAGAACACTCGGCGCTCCAGCTACTCATGCTCTTTGACAAATTCGCGAGTGTGCTG
 GTGGTGACCACCCATGAGGACCTGTTATTGCCGTCTTCCAGGCACTGCTCACATGAGCCCGGCAGCAT
 GCCTGTGTGTGGATGAAACAACCTCCCTTCTGCCGAGAGTTCTGACTGGCCTTAGGAAGATAGGCAG
 CCCCAGCCCGGTGGTCTGGTCAGAAGCAGCTATGGGCGAGCCATGGTTGGGCTTTGTATTCTCTTGG
 ACCTCACACTTGCCTTGTAGTTAAGGATGACCTTGAACCTCTGATCCTCCTGCCTCTGCCTCCAAGTGC
 TATGATTACACACGCGTCCATCAATGTCACTTGTAAAAATATATTTATTTTATTTAAAAA AAAAAAAAAA

- Restriction Sites:** RsrII-NotI
- ACCN:** NM_181569
- Insert Size:** 1710 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).
- 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: [BC064471](#), [AAH64471](#)

RefSeq Size: 2181 bp

RefSeq ORF: 1710 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 (2) lacks an alternate in-frame exon compared to variant 1. The resulting isoform (2) has the same N- and C-termini but is shorter compared to isoform 1.