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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
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

>MC228373 representing NM_001284359
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGGACAATACCAGCCCCATCAGCGTGATCCTGGTGAGCTCGGGCAGCAGGGGCAATAAGCTGCTCT
TCAGGTACCCCTTCCAGAGGAGCCAGGAGCACCCCGCGTCCCAGACAAATAAACCACGGAGCAGATATGC
TGTCAACAACACTGGCGAACATGCTGATGACCAGGACGGTGACTCCAGCAAGCCATGTCCTCCAACCGAT
GAGCAATTGGTTGCAGGGTTCTCGGATGTTATTCTGGCAACAATTTTGGCAACCAAATCTGAAATGTGCG
GCCAAAAATTTGAACTGAAGATTGATAATGTACGGTTTGTTGGGCACCCAACACTGCTGCAGCATGCTCT
GGGGCAGGTCTCCAAAACAGATCCATCTCCAAAGCGGGAAGCTCCGACCATGATTCTTTTTAACGTGGTA
TTTGCACTGAGGGCCAATGCTGATCCATCAGTGATAAACTGTCTACACAACTTGTCCCGCCGAATTGCTA
CTGTCCTGCAGCATGAGGAGCGCCGCTGCCAGTACCTCACTCGAGAGGCCAAGCTGATCCTAGCACTTCA
GGATGAGGTGTCTGCTATGGCTGATGCAAATGAAGGTCCTCAGTCCCCATTCCAGCACATCCTACCCAAG
TGCAAGCTGGCTCGGGACCTCAAAGAAGCTTATGACAGCCTGTGCACATCTGGTGTGGTACGGCTTCACA
TTAACAGCTGGCTGGAAGTGAGTTTCTGTCTGCCCCACAAGATCCACTATGCAGCTTCAAGTCTGATTCC
TCCTGAGGCTATTGAACGGAGCCTGAAAGCCATCCGCCCGTACCATGCCTTGCTACTTCTCAGTGACGAG
AAGTCTCTGCTGAGTGAGCTTCCCATTGACTGCTCCCCGGCTCTGGTGCGGGTGATCAAGACCACGTCTG
CTGTGAAGAACCTGCAGCAGCTAGCCCAGGATGCCGATCTGGCCTTGCTGCAGGTCTTCCAGTTGGCAGC
TCACCTGGTATACTGGGGCAAGGCTGTCATCATCTACCCACTGTGTGAGAACAACGTCTATGTCATGTCT
CCCAATGCCAGTGTGTGTCTGTACTCCCCGCTAGCTGAACAGTTCTCCCGGCAGTTCCCGTCCCATGACC
TGCCATCTGTCCTGGCCAAGTTTTCCTTGCCTGTTTCTTTATCGGAGTTCAGGAGCCCTCTGGCTCCCCC
TGCACAGGAGACCCAGCTCATCCAGATGGTGGTGTGGATGCTGCAGCGCCGGCTCCTCATCCAGCTGCAT
ACCTATGTTTGCCTAATGGCCTCACCCAGCGAAGAGGAGCCCCGACTGCGAGAGGATGATGTCCCCTTCA
CAGCCAGAGTTGGTGGCCGCAGCCTCAGCACACCCAATGCTCTAAGCTTTGGCTCCCCAACCAGCAGTGA
CGACATGACCCTTACCAGCCCCAGTATGGACAACTCAAGTGCTGAGCTGCTCCCCAGTGGGGACTCACCA
CTGAACAAGAGGATGACAGAGAACCTGCTGGCTAGCCTCTCAGAGCATGAGCGGGCTGCTATCCTCAATG
TGCCTGCAGCCCAAAACCCTGAGGACCTCCGCATGTTTGCCAGGCTCCTTCACTACTTCCGTGGCCGCCA
CCATCTGGAGGAGATCATGTACAATGAGAACACTCGGCGCTCCCAGCTACTCATGCTCTTTGACAAATTC
CGCAGTGTGCTGGTGGTGACCACCCATGAGGACCCTGTTATTGCCGTCTTCCAGGCACTGCTCACATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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).

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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).

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