

## Product datasheet for **MC205833**

### Nprl2 (NM\_018879) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Nprl2 (NM_018879) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Nprl2
Synonyms:	2810446G01Rik; G21; NPR2L; Tusc4
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC026548

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CTCTTTTTGACAGGGTATCCAAGGCGTAGAGGCGATCCCCACACGAAAAACAGGGATTACAGACTTGGAT
TCCAGACAGCGCCATGGGACAGCTGCCGCATCGAATGTATATTCCTCAGCGAGTTCACCCAACGCTG
GGACCCAAAATTACCTATCAGGTCCTGAGGATTCATCTCGCGAGAAGTGGTTGACACGGTCCAGGTGT
ACATCATCAACCAAGCCGAGTTACAGAACAAGCTCATCACTGTCACAGCCATGGAGAAGAAGCTGATTGG
CTGCCCGTGTGCATTGAACACAAGAAGTACAGCCGCAATGCTCTCCTCTTCAACCTGGGCTTTGTGTGT
GACGCTCAGGCTAAGACTTGTGCCCTGGAACCCATCGTAAAAAGCTGGCCGGCTACTTGACCACGCTGG
AGCTTGAGAGCAGCTTTGTATCCAACGAGGAGAGCAAGCAGAAGCTGGTGCCCATCATGACCATCCTGCT
GGAAGAGCTGAATGCCTCCGGCCGCTGCACTCTGCCCATTGACGAATCCAACACCATCCACTTGAAGGTG
ATCGAGCAGCGGCCAGACCCTCCTGTTGCGCAGGAGTATGATGTGCCGCTTTTACAAAGGACAAGGAGG
ATTTCTTCAGCTCGCAGTGGGACCTTACCACACAGCAGATCCTGCCCTACATTGACGGGTTTCGCCATGT
CCAGAAGATCTCCGCTGAGGCAGACGTGGAACCAACCTGGTGCGCATCGCCATTAGAAGCTGCTGTAC
TATGGTGTGTGACACTGGTATCCATCCTCCAGTACTCCAATGTGTATTGCCCAACCAAAAAGTCCAGG
ATCTGGTGGATGACAAGTCCCTGCAGGAGGCATGTCTGTCTACGTACCAAGCAAGGACACAAAAGGGC
CAGTCTCCGAGATGTGTTCCAGCTATACTGCAGCCTGAGCCCTGGTACCCTGTGCGAGACCTCATCGGC
CGCCACCCCAGCAGTTACAACACGTTGATGAAAGGAAGCTGATCCAGTTTGGGCTGATGAAGAACCTTA
TCCGGAGACTACAGAAATATCCAGTCCGAGTGTCTCGGGAGGAGCGGAGCCACCCTGCCAGGCTTTACAC
GGGCTGTCACAGCTATGATGAGATCTGCTGCAAGACAGGCATGAGCTACCATGAGCTGGACGAGCGACTA
GAAAATGACCCCAACATCATCTGCTGGAAGTGAAGGCTGGCTGGAGCATGTTACTATGGCTACT
TGCCCTACTAAGGCCTCCTGGTCCACGGAGCTAGACAAGTATGGTTGTACATATGGTCTGGAGGGTG
AGACTCGTTTTGTAATAAAGTTATGTGTTTCATCCTGTGGAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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Restriction Sites:	RsrII-NotI
ACCN:	NM_018879
Insert Size:	1143 bp



<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">BC026548</a> , <a href="#">AAH26548</a>
<b>RefSeq Size:</b>	1432 bp
<b>RefSeq ORF:</b>	1143 bp
<b>Locus ID:</b>	56032
<b>UniProt ID:</b>	<a href="#">Q9WUE4</a>
<b>Cytogenetics:</b>	9 F1
<b>Gene Summary:</b>	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]