

Product datasheet for **SC116029**

NPR2L (NPRL2) (NM_006545) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NPR2L (NPRL2) (NM_006545) Human Untagged Clone
Tag:	Tag Free
Symbol:	NPR2L
Synonyms:	FFEVF2; NPR2; NPR2L; TUSC4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_006545, the custom clone sequence may differ by one or more nucleotides

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ATGGGCAGCGGCTGCCGCATCGAATGCATATTCTTCAGCGAGTTCACCCACGCTGGGACCCAAGATCA  
CCTATCAGGTCCCTGAAGACTTCATCTCCCGAGAGCTGTTTGACACAGTCCAAGTGTACATCATACCAA  
GCCAGAGCTGCAGAACAAGCTTATCACTGTCACAGCTATGGAAAAGAAGCTGATCGGCTGTCCTGTGTGC  
ATCGAACACAAGAAGTACAGCCGAATGCTCTCCTCTTCAACCTGGGCTTCGTGTGTGATGCCAGGCCA  
AGACCTGCGCCCTCGAGCCATTGTTAAAAAGCTGGCTGGCTATCTGACCACACTAGAGCTAGAGAGCAG  
CTTCGTGTCCATGGAGGAGAGCAAGCAGAAGTTGGTGCCCATCATGACCATCTTGCTGGAGGAGCTAAAT  
GCCTCAGGCCGGTGCACCTGCCCATTGATGAGTCCAACACCATCCACTGAAGGTGATTGAGCAGCGGC  
CAGACCTCCGGTGGCCAGGAGTATGATGTACCTGTCTTTACCAAAGACAAGGAGGATTTCTTCAACTC  
ACAGTGGGACCTCACTACACAACAAATCCTGCCCTACATTGATGGGTTCCGCCACATCCAGAAGATTTCA  
GCAGAGGCAGATGTGGAGCTCAACCTGGTGCGCATTGCTATCCAGAACCTGCTGTACTACGGCGTTGTGA  
CAAGTCCCTGCAAGAGGCATGTCTATCCTACGTGACCAAGCAAGGGCACAAGAGGGCCAGTCTCCGGGAT  
GTGTTCCAGCTATACTGCAGCCTGAGCCCTGGCACTACCGTGGGAGACCTCATTGGCCGCCACCCCCAGC  
AGCTGCAGCATGTTGATGAACGGAAGCTGATCCAGTTCGGGCTTATGAAGAACCTCATCAGGCGACTACA  
GAAGTATCCTGTGCGGGTACTCGGAAGAGCAGAGCCACCCTGCCCGGCTTTATACAGGCTGCCACAGC  
TATGACGAGATCTGCTGCAAGACAGGCATGAGTACCATGAGCTGGATGAGCGGCTTGAAAATGACCCCA  
ACATCATCATCTGCTGGAAGTGA
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_006545 unedited</p> <pre>CGTCACATTTGTAACACGACTCATATAGGCGGCCGCGAAATTCGCACGAGCCCAGTCCCT GAAGATTCATCTCCCGAGAGCTGGGGAGGGGAGTGGCAATGGGCCCTCAGTGGACATCT GTACTGGGTGTAGTACAAATGGTGACCTCCTCATGCCCCCAAGCCCAAGTCCTTTCCC AGGTCCCTGAAGACTTCATCTCCCGAGAGCTGTTTGACACAGTCCAAGTGACATCATCA CCAAGCCAGAGCTGCAGAACAAGCTTATCACTGTCTATGGAAAAGAAGCTGATCGGCTGT CCTGTGTGCATCGAACACAAGAAGTACAGCCGCAATGCTCTCCTTTCAACCTGGGCTTC GTGTGTGATGCCAGGCCAAGACCTGCGCCCTCGAGCCATTGTTAAAAAGCTGGCTGGC TATCTGACCACACTAGAGGTCTGCAATGAGATGGGCTTGGGTTTACCGACAGGCAGAGTT GGGGAAGGTGTTCCCATGTCTCCAAAGTCCCCAAACCTGGGACCCTGCAAACCAGCTCA GGACTCAGGGCAGCCAACCAGCCAGGGTCTGGGATGTGCCACCATGCTTTCCATGCT CTGTCTAGCTAGAGAGCAGCTTCGTGTCCATGGAGGAGAGCAAGCAGAAGTTGGTGCCCA TCATGACCATCTTGCTGGAGGAGCTAAATGCCTCAGGCCGGTGCACCTGCCCCATTGGTA TGGCCAGCCTCTGCAAGGACAGCACAGGGGTACAGGAGAGATGGGAAAAGTACCCAGCTA GTCAGGTAGAAGGCCAGACTCATGAACACATTGGTGGGCAGGAAATAGCCATGGGCCTG AGTGCCCATGTCCAGGGTCCACAGCATGATGGACCTGGGACTGGGGTAGGGGAA</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_006545 unedited</p> <pre>CTTCCAGGGCCGNAAGCACTGGGGAGGGGTCACAGGGATGCCACCCGGGATCTGTTC GGAAACAGCTATGACCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTGTTT GAAATGGATGTCTTTATTTACAGAACTAAGAGTCAACCTCTAGACAGTATGACAAGCCTC CTAGTAGGAGGGACTACCCACAGCAATGTGTCCATCCAGTCACTACCAGCCTCACTTCCA GCAGATGATGATGTTGGGGTCATTTTCAAGCCGCTCATCCAGCTCATGGTAGCTCATGCC TGCTTTCAGCAGATCTGTGCATAGCTGTGGCAGCCTGTATAAAGCCGGGCAGGGTGGCT CTGCTCTTCCCGAGTCACCCGCACAGGATACTTCTGTAGTCGCCTGATGAGGTTCTTCAT AAGCCCGAACTGGATCAGCTTCCTAGGGTGAAGATCAGAGGACGGGGTGACGCCCTGGCC AGGCCTTCTTTCAGGCAGGCCAACCCCTTCTGTAGTCTCCCTTCAATTTTGTCTCTGTA GCCCATCATCTCCAGGAAGCCTGGCTTGGATTGGCAGTGGCCCATGATCCAGGGCTCCTG AGAACATAAAGGGTCTAGCTTCCCTCAGGTAACCCCAATGCCCCAGCAAATTCCTCCTC TGACCGTTATCAACATGCTGAACTGCTGGGGGGTGGGGCGCAAATGAGGTCCTCCACGGG TAGTGCCAGGGCTCAGGCTGGATATAGCTGGACACTNCCGGAAGTCCCTCTGGCCTCGG GGGGGGCCAGGGACACTATTATGTGGGCTGGCTCCCCAAAAGGTTTCCAGACCACCTAC TTGGTTGGCAGGAAGAAAAGTCTGCTGAGGACTGATTTAACAGCTGCCTTGGGGGGGGG GGGTAATTTGGGTTTCAAGGGCCAACTGGGCCCAAAGGGGTGTGAAAACACCCCGTT GTGGGACACAAATCC</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_006545
Insert Size:	2620 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:	<ol style="list-style-type: none">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_006545.4 , NP_006536.3
RefSeq Size:	1672 bp
RefSeq ORF:	1143 bp
Locus ID:	10641
UniProt ID:	Q8WTW4
Cytogenetics:	3p21.31
Protein Families:	Druggable Genome
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]