

Product datasheet for **SC103432**

NPR2L (NPRL2) (AK098161) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NPR2L (NPRL2) (AK098161) Human Untagged Clone
Tag:	Tag Free
Symbol:	NPR2L
Synonyms:	NPR2; NPR2L; TUSC4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for AK098161, the custom clone sequence may differ by one or more nucleotides

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CGGGCTGTAGGGATCCGGTTGGGGGTTCCAGGTCCCACAGAAGGTGAGTTGGGTGACCCATGAGTATCC
CTGAAGTCTGAGTGAAGAGTAAATGATGCATAGGAAGTTTAGGTAAGGCAGGAGAAAAGTGTCCAGGTAGAG
GGAACAGCATATGCAGAAGCCAGGAAGGAGGTGAGATCATAGCGTATGTTTGGAAACAGAAAGAAGTAAT
AGGCCTGAGTGGATGGGAGAGAGGGGAACGCTGGAGAAGAGGACTTGGGCTTGGGGGGCATGAGGAGGTC
ACCATTTGTAACACCCAGTACAGATGTCCACTGAGGGGCCATTGCCACTCCCCTCCCCAGGTCCTG
AAGACTTCATCTCCCAGAGCTGTTTGACACAGTCCAAGTGTACATCATCACCAAGCCAGAGCTGCAGAA
CAAGCTTATCACTGTGTGAGACCCTAGCTCGGGGTGAGCGGTGGTGGCAGGGGTTGCCAGGAGGAGG
AAGGGACAGGCTTGGGGCCTGACTGTGTTCCAATTATCCAGCACAGCTATGGAAAAGAAGCTGATCGGC
TGTCCTGTGTGCATCGAACACAAGAAGTACAGCCGCAATGCTCTCCTCTCAACCTGGGCTTCGTGTGTG
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GGTCTGCAATGAGATGGGCTTGGGTTTACCAGCAGGCAGAGTTGGGAAGGTGTTCCCATGTCTCCAAAG
TCCCCAAACCTGGGACCTGCAAACAGCTCAGGACTCAGGGCAGCCAACCAGCCAGGGGTCTCGGGAT
GTGCCACCATGCTTTCATGCTGTCTAGTCTAGTACAGGAGCAGCTTCGTGTCCATGGAGGAGCAAGCAG
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GAGAAGGGCAAGACTCATGAACACATTGGTGGGAGGAAATAGCCATGGGCTGAGGTGCCATGTCCAGG
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AATTCTTCCCCTTTGTGGGCTCCGTTTCTCACTCCATAAAAAGAGAAAGATTAGCCCTACCCAGAGGC
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ACCCTCCGGTGGCCAGGAGTATGATGTACCTGTCTTTACCAAAGACAAGGAGGATTTCTCAACTCACA
GTGGGACCTCACTACACAACAAATCCTGCCCTACATTGATGGGTTCCGCCACATCCAGAAGATTTAGCA
GAGGCAGATGTGGAGCTCAACCTGGTGCATTGCTATCCAGAACCTGCTGTGAGTGGGCCTACAGTCAT
ACCTGGGACAAGGTCAACAGCCAGGGAAGACCTCAGGGGCCCTGGGTGTGAGGGTTGGGAAGGCATGGTC
CTCAGAAGCTGAGCACAGCTCTCTCTCAGGTAACAGGCTACTACGGCGTTGTGACTGTTGCCATCTCCAGGT
AGTACTCCAATGTATACTGCCAACGCCAAGGTCCAGGACCTGGTAGATGACAAGTCCCTGCAAGAGGC
ATGTCTATCCTACGTGACCAAGCAAGGGCACAAGAGGGCCAGTCTCCGGGATGTGTCCAGCTATACTGC
AGCCTGAGCCCTGGCACTACCGTGCGAGACCTCATTGGCCGCCACCCCCAGCAGCTGCAGCATGTTGATG
AACGGTCAGAGGAGAATTTGCTGGGGCATTGGGAGTTACCTGAGGGAAGCTAGACCCTTTATGTCTCTC
AGGAGCCCTGGATCATGGGGCACTGCCAATCCAAGCAGGCTTCCCTGGAGATGATGGGCTACAGAGACAAA
ATTGAAGGGAGACTACAGGAAAGGGTTGGCCTGCCTGAAAGAAGGCTGGCCAGGGCGTCACCCCGTCTCT
CTGATCCTCACCTAGGAAGCTGATCCAGTTCGGGCTTATGAAGAACCTCATCAGGCGACTACAGAAGTA
TCCTGTGCGGGTACTCGGAAGAGCAGAGCCACCCTGCCCGGCTTTATACAGGCTGCCACAGCTATGAC
GAGATCTGCTGCAAGACAGGCATGAGCTACCATGAGCTGGATGAGCGGCTTAAAAATGACCCCAACATCA
TCATCTGCTGGAAGTGAGGCTGGTAGTGACTGGATGGACACATTGCTGTGGGTAGTCCCTCTACTAGGA
GGCTTGTACTACTGTCTAGAGGTTGACTCTTAGTCTGTAATAAAGACATCCATTTCAAAC
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5' Read Nucleotide Sequence:	>OriGene 5' read for AK098161 unedited GGGTCAACATTTGTATACGACTCATATAGGCGGCCGCAATTCGGCACGAGGGGCAAGCT TGCGTGCCCCAGCGACACAGGCTCTGCGCGAGGAACGAGGAGCTACGGGCTGGGCCCC GTTATTGCCATGGGCAGCGGCTGCCGCATCGAATGCATATTCTTCAGCGAGTTCCACCCC ACGCTGGGACCCAAGATCACCTATCAGGTGCCACCCGGGCTCGCGGGACTGGGCGGAAG AGGGACGTTCTCGAGAGCTCAACTGGCTGCCTGAAGGCAGTAGTTTCCCGTGTGCACGC AGGCATGCTGCTTCATTGCAGACAACGTGAGGCTAGAGGATAGTCAGACCCAGGCCCC CGGCTCCCAATGTGGCAGGGAAGACATACGTACATTGGCAGTGTGTAGGATATCGGG CTGTAGGGATCCGGTTGGGGGTTCCAGGTCCACAGAAGGTGAGTTGGGTGACCCATGA GTATCCCTGAACTGAGTGAAGAGTAAATGATGCATAGGAAGTTTAGGTAAGGCAGGAGAA AGTGTTCAGGTAGAGGGAACAGCATATGCAGAAGCCAGGAAGGAGGTGAGATCATAGCG TATGTTTGAAACAGAAAGAAGTAATAGGCCTGAGTTGGATGGGAAGAGAAGGGAACGCT GGAGAAAGAGACTTGGGCTTGNNGGCGATGAGGAGGTACCATTGGTACTACCCAGTA CAGATGTCCACTGAGNGCCCATTGCCACTCCCCTNCCCAGGTCCCCTGAGACTTCATCT NCCGAGAGCTGTTTGACAGTCCAAGTGTACATCATACCAAGCCAGAGCTGCAGAACAA GCTTATCACTGTCTATGAAAGAAGCTGATCGGCTGTCCTGTGTGCATCGACACAAGAAG TCAGNCGCATGCTCTCTCCTCACNTGGCTTCNGTGTGA
3' Read Nucleotide Sequence:	>OriGene 3' read for AK098161 unedited TTTTTTTTTTTTTTGTTTAAATGGATGTCTTTATTTACAGAACTAAGAGTCAACCTCTAG ACAGTATGAAAGCCTCCTAGTAGGAGGGACTACCCACAGCAATGTGTCCATCCAGTCACT ACCAGCCTCACTCCAGCAGATGATGATGTTGGGGTCATTTTCAAGCCGCTCATCCAGCT CATGGTAGCTCATGCCTGTCTTGACAGATCTCGTCATAGCTGTGGCAGCCTGTATAAA GCCGGGACAGGGTGGCTCTGCTCTTCCCAGTTACCCGCACAGGATACTTCTGTAGCCGCC TGATGAGGTTCTTCATACGCCCGAACTGCCTCAGTTTCTACGGTGAAGACCATAT
Restriction Sites:	NotI-NotI
ACCN:	AK098161
Insert Size:	3420 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:	AK098161.1
RefSeq Size:	2512 bp
RefSeq ORF:	2512 bp

Locus ID:	10641
Cytogenetics:	3p21.31
Protein Families:	Druggable Genome
Gene Summary:	<p>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]</p>