

Product datasheet for **SC321098**

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: Neomycin
Vector: pCMV6-AC (PS100020)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_006545.4
 GGGGGCAGGCGCCATTGGGCAGAGGGATTGGCAAGCTTGCCTGCCCGAGCAGACAGGCC
 TCGAGGCTGTCTCTGACAAGTGTTCACAGGAGGTGGGACGCCTCTGCGGAGGAACGAG
 GAGCTACGGGCTGGGCCCGTTATTGCCATGGGCAGCGCTGCCGCATCGAATGCATAT
 TCTTCAGCGAGTTCCACCTCACGCTGGGACCCAAGATCACCTATCAGGTCCTGAAGACT
 TCATCTCCCGAGAGCTGTTTACACAGTCCAAGTGTACATCATACCAAGCCAGAGCTGC
 AGAACAAAGCTTACTGTACAGCTATGGAAAAGAAGCTGATCGGCTGCCTGTGTGCA
 TCGAACACAAGAAGTACAGCCGAATGCTCTCCTTTCAACCTGGGCTTCGTGTGTGATG
 CCCAGGCCAAGACCTGCGCCCTCGAGCCATTGTTAAAAAGCTGGCTGGCTATCTGACCA
 CACTAGAGCTAGAGAGCAGCTTCGTGTCCATGGAGGAGAGCAAGCAGAAGTTGGTGCCCA
 TCATGACCATCTTGCTGGAGGAGCTAAATGCCTCAGGCCGGTGCCTCTGCCATTGATG
 AGTCCAACACCATCCACTTGAAGGTGATTGAGCAGCGGCCAGACCTCCGGTGGCCAGG
 AGTATGATGTACCTGTCTTTACCAAAGACAAGGAGGATTTCTTCAACTCACAGTGGGACC
 TCACTACACAACAAATCCTGCCCTACATTGATGGGTTCCGCCACATCCAGAAGATTTAG
 CAGAGGCAGATGTGGAGCTCAACCTGGTGCATGCTATCCAGAACCTGCTGTACTACG
 GCGTTGTGACTGTTGTCATCCTCCAGTACTCCAATGTATACTGCCAACGCCCAAGG
 TCCAGGACCTGGTAGATGACAAGTCCCTGCAAGAGGCATGTCTATCCTACGTGACCAAGC
 AAGGGCACAAGAGGGCCAGTCTCCGGATGTGTTCCAGCTATACTGCAGCCTGAGCCCTG
 GCACTACCGTGCAGACCTCATTGGCCGCCACCCAGCAGCTGCAGCATGTTGATGAAC
 GGAAGCTGATCCAGTTCGGGCTTATGAAGAACCCTATCAGGCGACTACAGAAGTATCCTG
 TCGGGGTGACTCGGGAAGAGCAGAGCCACCCTGCCCGGCTTTATACAGGCTGCCACAGCT
 ATGACGAGATCTGCTGCAAGACAGGCATGAGCTACCATGAGCTGGATGAGCGGCTTGAAA
 ATGACCCCAACATCATCATCTGCTGGAAGTGAGGCTGGTGTGACTGGATGGACACATTG
 CTGTGGGTAGTCCCTCCTACTAGGAGGCTTGTCTACTGTCTAGAGGTTGACTCTTAGTT
 CTGTAATAAAGACATCCATTTCAAACAGCTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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Restriction Sites:	Please inquire
ACCN:	NM_006545
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:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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]