

Product datasheet for **SC332636**

SLC38A9 (NM_001258287) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: SLC38A9 (NM_001258287) Human Untagged Clone
Tag: Tag Free
Symbol: SLC38A9
Synonyms: URLC11
Vector: pCMV6-Entry (PS100001)
Fully Sequenced ORF: >SC332636 representing NM_001258287.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGGCTATTTGCATTTTAAACATGGAGAATCCGGCCTTTCTGTATAGAGCCCAAAACATCGTGAATGTG
AATCATGTCATTAGAGGGTTAGTGACCATGCCTCTGCCATGAACAAGAGAATTCATTACTACAGCCGG
CTCACCCTCTGCAGACAAGGCACTGATTGCCCCAGACCATGTAGTCCAGCTCCAGAAGAGTGCTAT
GTGTATAGTCCATTGGGCTCTGCTTATAAACTTCAAAGTTACACTGAAGGATACGGTAAAAACACCACT
TTAGTAACCATTTTTATGATTTGGAATACCATGATGGGAACATCTATACTAAGCATTCTTGGGGCATA
AAACAGGCTGGATTTACTACTGGAATGTGTGCATCACTGATGGGCCTTTTAACTTTATTGCTGC
TACAGAGTAGTGAAATCACGGACTATGATGTTTTCTGTTGGATACCACTAGCTGGGAATATCCAGATGTC
TGCAGACATTATTTCCGGCTCCTTTGGGCACTGGTCCGAGTCTCCTTTCTCCTTGGTGTCTCTCATTGGA
GCAATGATAGTTTATTGGGTGCTTATGTCAAATTTCTTTTAACTGGAAAGTTATTTTTAATTTT
ATTCATCACATTAATGACACAGACACTATACTGAGTACCAATAATAGCAACCCTGTGATTTGTCCAAGT
GCCGGGAGTGGAGGCCATCCTGACAACAGCTCTATGATTTCTATGCCAATGACACAGGAGCCCAACAG
TTTGAAAAGTGGTGGGATAAGTCCAGGACAGTCCCCTTTATCTTGAGGGCTCCTCCTCCCACTGCTC
AATTTCAAGTCTCCTTCATTTTTTTCAAATTTAATATCCTAGAGATAAGATTTTCAGTTTCCACAGCTG
ACTGGAGTGCTTACCCTTGCTTTTTTTTATTCAATTTGTATCATCACTCTTGAAGAACAACAAGAAA
CAAGAAAACAATGTGAGGACTTGTGCATTGCTTATATGCTGGTGACATTAACCTTATCTCTATATTGGA
GTCCTGGTTTTTCTTTCATTTCTTACCACCATTATCCAAAGATTGATTGAGCAGAATTTTTTAGAC
AACTTCCCTAGCAGTGACACCCTGTCTTCATTGCAAGGATATTCCTGCTGTTCCAGATGATGACTGTA
TACCCACTCTTAGGCTACCTGGCTCGTGTCCAGCTTTGGGCCATATCTCGGTGACATTTATCCTAGC
ATTTTCCATGTGCTGATTCTAATCTAATTATTGTGGGAGCTGGAGTGATCATGGCCTGTTTCTACCCA
AACATAGGAGGGATCATAAGATATTCAGGAGCAGCATGTGGACTGGCCTTTGTATTCATATACCCATCT
CTCATCTATATAATTTCCCTCCACCAAGAAGAGCGTCTGACATGGCCTAAATTAATCTTCCACGTTTTT
ATCATCATTTTGGGCGTGGCTAACCTGATTGTTTCAGTTTTTTATGTGA
  
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Restriction Sites: Sgfl-MluI
ACCN: NM_001258287
Insert Size: 1497 bp


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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:	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_001258287.1
RefSeq Size:	2689 bp
RefSeq ORF:	1497 bp
Locus ID:	153129
UniProt ID:	Q8NBW4
Cytogenetics:	5q11.2
Protein Families:	Transmembrane
MW:	56.5 kDa
Gene Summary:	Lysosomal amino acid transporter involved in the activation of mTORC1 in response to amino acid levels. Probably acts as an amino acid sensor of the Rag GTPases and Ragulator complexes, 2 complexes involved in amino acid sensing and activation of mTORC1, a signaling complex promoting cell growth in response to growth factors, energy levels, and amino acids (PubMed:25561175, PubMed:25567906, PubMed:29053970). Following activation by amino acids, the Ragulator and Rag GTPases function as a scaffold recruiting mTORC1 to lysosomes where it is in turn activated. SLC38A9 mediates transport of amino acids with low capacity and specificity with a slight preference for polar amino acids (PubMed:25561175, PubMed:25567906). Acts as an arginine sensor (PubMed:25567906, PubMed:29053970). Following activation by arginine binding, mediates transport of leucine, tyrosine and phenylalanine with high efficiency, and is required for the efficient utilization of these amino acids after lysosomal protein degradation (PubMed:29053970).[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (3) has multiple differences, including translation initiation at an alternate start codon, compared to variant 1. The encoded isoform (3) has a distinct N-terminus and is shorter than isoform 1.