

Product datasheet for **SC111008**

RSC1A1 (NM_006511) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RSC1A1 (NM_006511) Human Untagged Clone
Tag:	Tag Free
Symbol:	RSC1A1
Synonyms:	RS1
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 NM_006511, the custom clone sequence may differ by one or more nucleotides

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ATGTCATCATTACCAACTTCAGATGGGTTTAACCATCCCGCCGTTCTTCAGGACAGAGTCTGATGTTG
GTAATCCTATGAGTCTTGCTCGCTCTGTCTCTGCTTCAGTCTGCCCTATCAAGCCCAGTGACTCAGATCG
CATTGAACCTAAAGCTGTGAAGGCTTTGAAGGCTTCAGCTGAATCCAGCTAAACTCTGAAAAGAAAGAA
CATCTTTCTTTACAAGATCTTTCTGATCATGCTTCCTCAGCAGACCATGCTCCAACAGACCAGAGTCCAG
CTATGCCTATGCAGAATTCATCCGAAGAAATAACTGTTGCAGGTAATCTGGAGAAATCTGCTGAAAGAAG
CACCCAGGCGCTCAAATTTTCATCTCCATACAAGACAGGAAGCTAGTTTATCTGTACATCTACTAGGATG
CATGAACCACAGATGTTTCTAGGTGAAAAGGATTGGCATCCAGAAAATCAGAACCTGAGTCAAGTGAGTG
ACCCTCAGCAGCAGGAAGAACAGGGAATGAACAGTATGAGGTTGCACAACAAAAGCTTCACATGACCA
AGAATATCTTTGAACATAGGGGACCTTGAGTTCCTGAAGAAAGGCAACAGAATCAACACAAAATTGTT
GATTTGGAAGCTACGATGAAAGGAAATGGGCTCCACAGAATGTGGATCCTCAAGTGCGAAGAAAAGTA
TTCCATCTTCAGAATGCAGTGGCTGCTCAAATTCAGAAACATTTATGGAAATCGATACAGCTCAACAGTC
CCTAGTTACTTTGCTTAATTCACAGGCAGGCAGAATGCCAATGTCAAGAACATTGGTGCATTGGATCTC
ACTTTAGATAATCCCTTGATGGAAGTAGAAACATCAAAATGTAACCCCTTCATCTGAAATTTTGAATGATT
CCATTTCCACTCAGGATTTACAGCCCCAGAACTAATGTTGAAATACCTGGAACAAATAAAGAATATGG
CCATTACTCCTCTCCAAGTCTCTGTGGCAGTTGTGAGCCTTCTGTGGAGTCAGCAGAAGAATCTTGCCCG
TCTATAACGGCAGCCTTGAAAGAACTTCATGAACCTTTGGTTGTTAGCAGTAAACCAGCTTCAGAAAATA
CATCTGAAGAAGTAATCTGTCAATCAGAAACCATAGCTGAGGGCCAAACCAGTATTAAAGACCTTTCTGA
AAGATGGACCCAAAATGAGCATCTTACCCAGAATGAACAGTGTCCACAAGTCTCCTTTTCATCAGGCCATA
TCTGTATCAGTGGAGACAGAAAAATTAACAGGTACTTCATCTGACACTGGAAGAGAAGCTGTAGAAAATG
TAAATTCAGGAGTCTAGGTGATGGCCTGTCAACCGATAAGGAAGGTGTCCCAATCTAGGGAATCCAT
AAATAAGAACCGTTCTGTCACTGTAACCTCAGCTAAAACATCCAATCAGTTACACTGCACCTTAGGTGTA
GAAATTTACCCAACTTTTAGCAGGTGAGGAGGATGCACTCAATCAGACTTCTGAGCAAACTAAGTCTT
TGTCATCCAATTCATATTGGTTAAAGACTTAGGTGAGGCATACAGAATTCAGTAACAGACAGGCTGGA
AACCAGAGAAAATGTCTGCTGATGCTTCGAGGCCATTACTTGAATATGAACCACCTACCAGCCATCCA
TCATCAAGTCTGCCATTCTCCACCATTGATTTTCTGCCACAGATATTGACCGCATTCTCCGTGCTG
GCTTTACTTTGCAGGAAGCTCTGGAGCTTTCATCGAGTTGGTGGGAATGCAGACCTTGCACTTCTGTG
TTTGCTCGCAAAAACATCGTAGTTCCTACATGA
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_006511 unedited

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GAAAGGGGGGCCNNNNCTTCCCCCNCGTTCAAAATTGTATACCATCATATAGGCGG
CCGCGAAATTCGACAGAGGTTCCATCGACCTGAAGAAAAAGTACTCGTGATCGGCACCAC
AGGCTCCAGACCACCTTTCTTCTGAGGAGAGCTACCAGAGTGTGCCCGGTTGGCATA
TGGGGCTGGAAGAGAGGATGTACGGCCAGAGGAGATTGCAGACCAAGAATTAGCAGAAGC
CCTTCAAAAATCAGCAGAGGATGCAGAGCGTCAGAAGCCATGATGCATGTAGTGTGTGTG
TACTGCAGCTGGAGTGGGCCCCAGACCAGAGAAAAGTGGTAAAGAATCTACCTCACTGGG
AATGTCATCATTACCAACTTCAGATGGGTTTAACCATCCCGCCGTTCTTCAGGACAGAG
TCCTGATGTTGGTAATCCTATGAGTCTTGCTCGCTCTGTCTCTGCTTCAGTCTGCCCTAT
CAAGCCCAGTGACTCAGATCGCATTGAACCTAAAGCTGTGAAGGCTTTGAAGGCTTCAGC
TGAATTCAGCTAACTCTGAAAAGAAAGAACATCTTTCTTTACAAGATCTTTCTGATCA
TGCTTCCTCAGCAGACCATGCTCCAACAGACCAGAGTCCAGCTATGCCTATGCAGAATTC
ATCCGAAGAAAATAACTGTTGCAGGTAATCTGGAGAAATCTGCTGAAAGAGCACCCAGGGC
CTCANATNTCATCTCCATACAAGACAGGAAGCTAGTTTATCTGTACATCTACTANGATG
CATGAACCACAGATGTTTCTAGGTGAAAAGGATTGGCATCCANAANATCAGACCTGAGT
CAAGTGAGTGACCCTCAGCAGCAGGAAGAACAGGAAATGAACAGTATGAGGTTGCACAAC
AAAAAGCTCACATGACCAAGAATATCTTT
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_006511 unedited <pre> NTTTCCTACTCTGNNACCGCGGCCGCATNCTAGGATCGAGTTTTTTTTTTTTTTTTTTTT TTTTTACACACAAAACCATCCATTTTATTCCAGGATACATCTTAATGAGAATAAAAAGC TTCTGTATGCACATACTGCCAATACATTTAAAAAGGCCTAAATTTTAAACAAGTAGGATAG ACAAATTCATCAGACAAAAGATCATAAATTACTTTGGCCGAAAAAATCTTTAAAAA TCTGGCTCAACATTCTGCTTGCAGGTTTCTATATATACTGTATATGTGGTGAGTGTGTAT GTGTGCGTGTATATAGAGAGAGCTTTCTTTTGTAAAGGGAATGGAGAACGGTCTAGCC CACTTTCCACAGTCATGTAGGAACACGATGTTTTTTCGAGCAAAACAAGAAGTGCAA GGTCTGCATTCCCACTCGATGCAAAGCTCCAAGAGCTTCCTGCAAAGTAAAGCCAG CACGGAGAATGCGGTCAATATCTGTGGCAGGAAAAATCAATGGTGAAGAATGGCAGGAC TTGATGATGGATGGCTGGTAGGTGGTTCATATTCAAGTAATGGCCTCGAAGCATCAGGAC AGACATTTTCTGTTTTAGGCTGTCTGTTACTGAATTCTGTATGCCCTGACCTAAGT CTTTAACCAATATGAAATTGGATGACAAAGACTTAGTTTGCTCAGAAGTCTGATTGAGTG CATCCTCCTCACCTGCTAAAAGTTGGGTGAAATTTCTACACCTAAGGTGCAGTGTAAC GATTGGATGTTTTAGCTGAGTTACAGTGACAGAACGGTCTTATTTATGGATTCCCTAG ATTTGGGGACACCTTCCTTTATCGTTGACAGGCCATCACCTAGACTCCTGAAGTTTACTT TTCTACAGCTTCTCTCCAGTGTCAGATGAAGTACCTGGTAAATTTTC </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_006511
Insert Size:	2630 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:	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:	<u>NM_006511.1</u> , <u>NP_006502.1</u>
RefSeq Size:	1854 bp
RefSeq ORF:	1854 bp
Locus ID:	6248
UniProt ID:	<u>Q92681</u>
Cytogenetics:	1p36.21
Domains:	UBA
Protein Families:	Druggable Genome

Gene Summary:

The protein encoded by this intronless gene inhibits the expression of the solute carrier family 5 (sodium/glucose cotransporter), member 1 gene (SLC5A1) and downregulates exocytosis of the SLC5A1 protein. The encoded protein is sometimes found coating the trans-Golgi network and other times is localized to the nucleus, depending on the cell cycle stage. This protein also inhibits the expression of solute carrier family 22 (organic cation transporter), member 2 (SLC22A2). [provided by RefSeq, Dec 2015]