

Product datasheet for **SC300046**

RS1 (NM_000330) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RS1 (NM_000330) Human Untagged Clone
Tag:	Tag Free
Symbol:	RS1
Synonyms:	RS; XLR1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_000330 edited ATGTCACGCAAGATAGAAGGCTTTTTGTTACTTCTCTTTGGCTATGAAGCCACATTG GGATTATCGTCTACCGAGGATGAAGGCGAGGACCCCTGGTACAAAAAGCATGCAAGTGC GATTGCCAAGGAGGACCCAATGCTCTGTGGTCTGCAGGTGCCACCTCCTTGGACTGTATA CCAGAATGCCATATCACAAGCCTCTGGGTTTCGAGTCAGGGGAGGTCACACCGGACCAG ATCACCTGCTCTAACCCGGAGCAGTATGTGGGCTGGTATTCTTCGTGGACTGCAAACAAG GCCCGGCTCAACAGTCAAGGCTTTGGGTGTGCCTGGCTCTCCAAGTTCAGGACAGTAGC CAGTGGTTACAGATAGATCTGAAGGAGATCAAAGTGATTCAGGGATCCTCACCCAGGGG CGCTGTGACATCGATGAGTGGATGACCAAGTACAGCGTGCAGTACAGGACCGATGAGCGC CTGAACTGGATTTACTACAAGGACCAGACTGAAACAACCGGGTCTTCTATGGCAACTCG GACCGCACCTCCACGGTTCAGAACCTGCTGCGGCCCCCATCATCTCCCGCTTCATCCGC CTCATCCCGCTGGGCTGGCACGTCCGCATTGCCATCCGGATGGAGCTGCTGGAGTGCCTC AGCAAGTGTGCCTGA



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_000330 unedited NACGTCCACAAATTTGTAATACGACTCACTATAGGGCGGCCGCGNATTCATGTCACGCAA GATAGAAGGCTTTTTGTTATTACTTCTCTTTGGCTATGAAGCCACATTGGGATTATCGTC TACCGAGGATGAAGGCGAGGACCCTGGTACCAAAAAGCATGCAAGTGCATTGCCAAGG AGGACCAATGCTCTGTGGTCTGCAGGTGCCACCTCCTGGACTGTATACCAGAATGCC ATATCACAAGCCTCTGGGTTTCGAGTCAGGGGAGGTCACACCGGACCAGATCACCTGCTC TAACCCGGAGCAGTATGTGGCTGGTATTCTTCGTGGACTGCAAACAAGGCCCGCTCAA CAGTCAAGGCTTTGGGTGTCCTGGCTCTCCAAGTTCAGGACAGTAGCCAGTGGTTACA GATAGATCTGAAGGAGATCAAAGTGATTTCAAGGATCCTCACCCAGGGGCGCTGTGACAT CGATGAGTGGATGACCAAGTACAGCGTGCAGTACAGGACCGATGAGCGCCTGAACTGGAT TTACTACAAGGACCAGACTGGAAACAACCGGTCTTCTATGGCAACTCGGACCGCACCTC CACGGTTCAGAACCTGCTGCGGCCCCCATCATCTCCCGTTCATCCGCCTATCCCGCT GGGCTGGCACGTCCGATTGCCATCCGGATGGAGCTGCTGGAGTGCCTCAGCAAGTGTGC CTGACTCGACTTAGATTGCNNGCCGCTCATAGCTGTTTCTGAACAGATCCCCGGTGG CATCCCTGTGACCCTCCCAGTGCCTCTCCTGGCCCTGGAAGTTGCCACTCCAGTGCC ACAGCCTTGTTCTAATAAATAAANTGCATCATTTGTCTGATAGGTGTCCTATATATAT GGGGTGGAGGGGGG</p>
Restriction Sites:	Please inquire
ACCN:	NM_000330
Insert Size:	700 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info</p>
OTI Annotation:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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_000330.2](#), [NP_000321.1](#)

RefSeq Size: 3046 bp

RefSeq ORF: 675 bp

Locus ID: 6247

UniProt ID: [O15537](#)

Cytogenetics: Xp22.13

Protein Families: Secreted Protein

Gene Summary: This gene encodes an extracellular protein that plays a crucial role in the cellular organization of the retina. The encoded protein is assembled and secreted from photoreceptors and bipolar cells as a homo-oligomeric protein complex. Mutations in this gene are responsible for X-linked retinoschisis, a common, early-onset macular degeneration in males that results in a splitting of the inner layers of the retina and severe loss in vision. [provided by RefSeq, Oct 2008]