

## Product datasheet for **SC118296**

### **RPS27A (NM\_002954) Human Untagged Clone**

#### **Product data:**

**Product Type:** Expression Plasmids  
**Product Name:** RPS27A (NM\_002954) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** RPS27A  
**Synonyms:** CEP80; HEL112; S27A; UBA80; UBC; UBCEP1; UBCEP80  
**Mammalian Cell Selection:** None  
**Vector:** [pCMV6-XL5](#)  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_002954 edited  
GAATTCGGCACGAGGGCGGTGGAGCCGCCACAAAATGCAGATTTTCGTGAAAACCCCTTA  
CGGGGAAGACCATCACCCCTCGAGGTTGAACCCCTCGGATACGATAGAAAATGTAAAGGCCA  
AGATCCAGGATAAGGAAGGAATTCCTCCTGATCAGCAGAGACTGATCTTTGCTGGCAAGC  
AGCTGGAAGATGGACGTACTTTGTCTGACTACAATATTCAAAGGAGTCTACTTTCATC  
TTGTGTTGAGACTTCGTGGTGGTCTAAGAAAAGGAAGAAGAAGTCTTACACCACTCCCA  
AGAAGAA TAAGCACAAGAGAAAGGTTAAGCTGGCTGTCTGAAATATTATAAGGTGG  
ATGAGAATGGCAAAATTAGTCGCCTTCGTGAGAGTGCCTTCTGATGAATGTGGTGCTG  
GGGTGTTTATGGCAAGTCACTTTGACAGACATTATTGGGCAAAATGTTGTCTGACTTACT  
GTTTCAACAAACCAGAAGACAAGTAACTGTATGAGTTAATAAAAGACATGAACTAACAAA  
AAAAAAAAAAAAAAAAACTCGAC



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_002954 unedited            GTAAAGTTCATACTTGTAAATCGACTCATATAGGCGGCCGCGTAATTCGCACGAGGGCGGT            GGAGCCGCCCAAATNGCAGATTTTCGTGAAACCCCTTACGGNGAAGACCATCACCCCTC            GAGGTTGAACCCCTCGGATACCGATAGAAAATGTAAAGGCCAAGATCCAGGATAAGGAAGG            AATTCCTCCTGATCAGCAGAGACTGATCTTTGCTGGCAAGCAGCTGGAAGATGGACGTAC            TTTGTCTGACTACAATATTCAAAAAGGAGTCTACTCTTCATCTTGTGTTGAGACTTCGTGG            TGGTGCTAAGAAAAGGAAGAAGAAGTCTTACACCACTCCCAAGAAGAATAAGCACAAGAG            AAAGAAGGTTAAGCTGGCTGTCCTGAAAATTATTAAGGTGGATGAGAATGGCAAAATTAG            TCGCCTTCGTGAGAGTGCCTTCTGATGAATGTGGTGCTGGGGTGTATTGGAAGTCA            CTTTGACAGACATTATTGTGGCAAATGTTGTCTGACTTACTGTTTCAACAAACCAGAAGA            CAAGTAACTGTATGAGTTAATAAAAGACATGAACTAACAAAAAAAAAAAAAAAAAACTCG            ACTCTAGATTGCGGCCGCGGTATAGCTGTTTCTGAACAGATCCCGGGTGGCATCCCTG            TGACCCCTCCCAAGTGCCTCTCCTGGCCCTGGAAGTTGCCACTCCAGTCCCACCAGCCT            TGTCTAATAAAATTAAGTTGCATCATTTTGTCTGACTAGGTGTCCTTCTATATATATGG            GTGAGNGGGGGGGTGTNTNNNNNACANGGGGGNNNNTTGGNAAGGACACCGTGGGGGG            CCCTGCGGGTCTATTGGGAACCAACCTGGAGTGCATTGGCACCATCTTGGCTCACTGCC            ATCTCCGCCTTCTGGGTTCCAGCCGT</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_002954 unedited            AGAGTCGAGTTTTTTTTTTTTTTTTTTTGTAGTTCATGTCTTTTATTAACATACAGTT            ACTTGTCTTCTGGTTTGTGAAACAGTAAGTCAGACAACATTTGCCACAATAATGTCTGT            CAAAGTGACTTGCATAAACACCCAGCACCACATTCATCAGAAGGGCACTCTCGACGAA            GCGGACTAATTTTGCATTCTCATCCACCTTATAATATTTTCAGGACAGCCAGCTTAACCT            TCTTTCTTGTGCTTATTCTTCTTGGGAGTGGTGAAGACTTCTTCTTCTTTTCTTAG            CACCACCAGAACTCTAACACAAGATGAAGAGTAGACTCCTTTTGAATATTGTAGTCAG            ACAAAGTACGTCCATCTCCAGCTGCTTGCAGCAAAGATCAGTCTCTGCTGATCAGGAG            GAATTCCTTCTTATCCTGGATCTTGGCCTTTACATTTTCTATCGTATCCGAGGGTTCAA            CCTCGAGGGTGATGGTCTTCCCGTAAGGGTTTTACGAAAATCTGCATTTTGGTGGCGG            CTCCACCGCCCTCGTGCCGAATTCGCGGCCGCCCTATAGTGAGTCGTATTACAAAATTCT            GACGGTTCACTAAACGAGCTCTGCTTATATAGACCCTCCACCGTACACGCCTACCGNCCA            TTTGCGTCAACGGGGGCGGGTTATTACGACATTNTGGAAGTCCNNGTTGATTTGGTGG            CAAAACAACCTCCATTGACGTCAATGGGTGGAGACTGGNAAATNCCCCTGAGTCAAACC            GCTATCCACGCCATTGGTGTACTGGCAAACCGCATCACATGGGTATAGCGATGACTAA            TACGTANATGACTGCCAGTANGAAAAGTNCCCCTANGGTGATGACTGGGCATAATGCC            ACGCGGCCATTTACCGNNCATGACGTCAATGGGGGGCGGACTNGGCATATGATCACCT            TGATGACTGCCAGTGGCAGNNTACCGTATTACTCCCCATGACGTNATGGGAAGTCTT            ATGNGCGTCTTGGGAAACTACGTANTATGCGNCATGGGGCCGGGGTTCTTGGCGGCA</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_002954
<b>Insert Size:</b>	490 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_002954.3</a> , <a href="#">NP_002945.1</a>
<b>RefSeq Size:</b>	541 bp
<b>RefSeq ORF:</b>	471 bp
<b>Locus ID:</b>	6233
<b>UniProt ID:</b>	<a href="#">P62979</a>
<b>Cytogenetics:</b>	2p16.1
<b>Domains:</b>	UBQ, Ribosomal_S27
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Ribosome
<b>Gene Summary:</b>	<p>Ubiquitin, a highly conserved protein that has a major role in targeting cellular proteins for degradation by the 26S proteasome, is synthesized as a precursor protein consisting of either polyubiquitin chains or a single ubiquitin fused to an unrelated protein. This gene encodes a fusion protein consisting of ubiquitin at the N terminus and ribosomal protein S27a at the C terminus. When expressed in yeast, the protein is post-translationally processed, generating free ubiquitin monomer and ribosomal protein S27a. Ribosomal protein S27a is a component of the 40S subunit of the ribosome and belongs to the S27AE family of ribosomal proteins. It contains C4-type zinc finger domains and is located in the cytoplasm. Pseudogenes derived from this gene are present in the genome. As with ribosomal protein S27a, ribosomal protein L40 is also synthesized as a fusion protein with ubiquitin; similarly, ribosomal protein S30 is synthesized as a fusion protein with the ubiquitin-like protein fubi. Multiple alternatively spliced transcript variants that encode the same proteins have been identified.[provided by RefSeq, Sep 2008]</p> <p>Transcript Variant: This variant (1) represents the longest transcript. Variants 1, 2 and 3 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>