

## Product datasheet for **SC122991**

### serum amyloid A2 (SAA2) (NM\_030754) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** serum amyloid A2 (SAA2) (NM\_030754) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** serum amyloid A2  
**Synonyms:** SAA; SAA1  
**Mammalian Cell Selection:** None  
**Vector:** [pCMV6-XL5](#)  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_030754 edited  
 AGGGACCCGACGCTCAGCTACAGCACAGATCAGCACCATGAAGCTTCTCACGGGCCTGGT  
 TTTCTGCTCCTTGGTCTGAGTGTGAGAGCCGAAGCTTCTTTTCGTTCCCTTGGCGAGGC  
 TTTTGATGGGGCTCGGGACATGTGGAGAGCCTACTCTGACATGAGAGAAGCCAATTACAT  
 CGGCTCAGACAAATACTTCCATGCTCGGGGAACTATGATGCTGCCAAAAGGGGACCTGG  
 GGGTGCCTGGGCCGAGAAGTGATCAGCAATGCCAGAGAGAATATCCAGAGACTCACAGG  
 CCATGGTGCAGGACTCGCTGGCCGATCAGGCTGCCAATAAATGGGGCAGGAGTGGCAG  
 AGACCCCAATCACTTCCGACCTGCTGGCCTGCCTGAGAAATACTGAGCTTCTCTTCACT  
 CTGCTCTCAGGAGACCTGGCTATGAGGCCCTCGGGCAGGGATACAAAGTTAGTGAGGTC  
 TATGTCCAGAGAAGCTGAGATATGGCATATAATAGGCATCTAATAAATGCTTAAGAGGTC  
 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_030754 unedited  
 NNNNGTACCGTACAAAATTGTATACGACTCACTATAGGCGCCGCGNAATTCGCCATTAC  
 GGCCGGGGAGGGACCCGACGCTCAGCTACAGCACAGATCAGCACCATGAAGCTTCTCACG  
 GGCCTGGTTTTCTGCTCCTTGGTCTGAGTGTGAGAGCCGAAGCTTCTTTTCGTTCCCT  
 GCGGAGGCTTTTGATGGGGCTCGGGACATGTGGAGAGCCTACTCTGACATGAGAGAAGCC  
 AATTACATCGGCTCAGACAAATACTTCCATGCTCGGGGAACTATGATGCTGCCAAAAGG  
 GGACCTGGGGGTGCCTGGGCCGAGAAGTGATCAGCAATGCCAGAGAGAATATCCAGAGA  
 CTCACAGGCCATGGTGGGAGGACTCGCTGGCCGATCAGGCTGCCAATAAATGGGGCAGG  
 AGTGGCAGAGACCCCAATCACTTCCGACCTGCTGGCCTGCCTGAGAAATACTGAGCTTCC  
 TCTTCACTCTGCTCTCAGGAGACCTGGCTATGAGGCCCTCGGGCAAGGATACAAAGTTA  
 GTGAGGCTATGTCCAGAGAAGCTGAGATATGGCATATAAATAGGCATCTAATAAATGCT  
 TAAGAAGGTCAAAAANNNNAAAAAAAAAAAAAAAAAACATGTCCGCCGGCTCGGGCCTTG  
 ACTTTAGATTGCGGCCCCGGCCTAAACTGTTTCTGAACAATCCCCGGGTGCATCCCTGG  
 TAACCCCTCCCATGGCCTTCTGGGCCTGGGAATTTCCCTTCTTGGCCCCACCCCTTG  
 CCAAAAAAAAAAATTTGCCCATTTGCCCAAAAGGGT



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<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_030754
<b>Insert Size:</b>	570 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>	<u><a href="#">NM_030754.2</a></u> , <u><a href="#">NP_110381.1</a></u>
<b>RefSeq Size:</b>	526 bp
<b>RefSeq ORF:</b>	369 bp
<b>Locus ID:</b>	6289
<b>UniProt ID:</b>	<u><a href="#">P02735</a></u>
<b>Cytogenetics:</b>	11p15.1
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	<p>This gene encodes a member of the serum amyloid A family of apolipoproteins. The encoded preproprotein is proteolytically processed to generate the mature protein. This protein is a major acute phase protein that is highly expressed in response to inflammation and tissue injury. This protein also plays an important role in HDL metabolism and cholesterol homeostasis. High levels of this protein are associated with chronic inflammatory diseases including atherosclerosis, rheumatoid arthritis, Alzheimer's disease and Crohn's disease. This protein may also be a potential biomarker for certain tumors. Finally, antimicrobial activity against <i>S. aureus</i> and <i>E. coli</i> resides in the N-terminal portion of the mature protein.</p> <p>[provided by RefSeq, Jul 2020]</p> <p>Transcript Variant: This variant (1) encodes the longer isoform (a). 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>