

## Product datasheet for SC328192

### Serum Amyloid A (SAA1) (NM\_001178006) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Serum Amyloid A (SAA1) (NM_001178006) Human Untagged Clone
Tag:	Tag Free
Symbol:	Serum Amyloid A
Synonyms:	PIG4; SAA; SAA2; TP53I4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	<p>&gt;NCBI ORF sequence for NM_001178006, the custom clone sequence may differ by one or more nucleotides</p> <p>ATGAAGCTTCTCACGGGCTGGTTTTCTGCTCCTTGGTCCTGGGTGTCAGCAGCCGAAGC            TTCTTTTCGTTCTTGGCGAGGCTTTTGATGGGGCTCGGGACATGTGGAGAGCCTACTCT            GACATGAGAGAAGCCAATTACATCGGCTCAGACAAATACTTCCATGCTCGGGGAACTAT            GATGCTGCCAAAAGGGGACCTGGGGTGCCTGGGCTGCAGAAAGTATCAGCGATGCCAGA            GAGAATATCCAGAGATTCTTTGGCCATGGTGCGGAGGACTCGCTGGCTGATCAGGCTGCC            AATGAATGGGGCAGGAGTGGCAAAGACCCCAATCACTTCCGACCTGCTGGCTGCCTGAG            AAATACTGA</p>
Restriction Sites:	Please inquire
ACCN:	NM_001178006
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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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).


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<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>NM_001178006.1, NP_001171477.1</u>
<b>RefSeq Size:</b>	592 bp
<b>RefSeq ORF:</b>	369 bp
<b>Locus ID:</b>	6288
<b>UniProt ID:</b>	<u>P02735</u>
<b>Cytogenetics:</b>	11p15.1
<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. Alternate splicing results in multiple transcript variants that encode the same protein. A pseudogene of this gene is found on chromosome 11. [provided by RefSeq, Jul 2020]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR compared to variant 1. Variants 1, 2 and 3 encode the same protein.</p>