

Product datasheet for **SC123747**

Serum Amyloid A (SAA1) (BC007022) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Serum Amyloid A (SAA1) (BC007022) Human Untagged Clone
Tag:	Tag Free
Symbol:	Serum Amyloid A
Synonyms:	MGC111216; PIG4; SAA; serum amyloid A1; TP53I4; tumor protein p53 inducible protein 4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for BC007022 edited
 AGGGACCCGACGCTCAGCTACAGCACAGATCAGCACCATGAAGCTTCTCACGGGCCTGGT
 TTTCTGCTCCTTGGTCTGGGTGTCAGCAGCCGAAGCTTCTTTTCGTTCCCTTGGCGAGGC
 TTTTGATGGGGCTCGGGACATGTGGAGAGCCTACTCTGACATGAGAGAAGCCAATTACAT
 CGGCTCAGACAAAATACTTCCATGCTCGGGGAACTATGATGCTGCCAAAAGGGGACCTGG
 GGGTGTCTGGGCTGCAGAAGCGATCAGCGATGCCAGAGAGAATATCCAGAGATTCTTTGG
 CCATGGTGCAGGACTCACTGGCCGATCAGGCTGCCGATGAATGGGCGAGGAGTGCAA
 AGACCCCAATCACTTCCGACCTGCTGGCCTGCCTGAGAAATACTGAGCTTCTCTTCACT
 CTGCTCTCAGGAGATCTGGCTGTGAGGCCCTCAGGGCAGGGATACAAAGCGGGGAGAGGG
 TACACAATGGGTATCTAATAAATACTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence: >OriGene 5' read for BC007022 unedited
 NAAAGCAGTCAGACTTTGTAAACGACTCCTATAGGCGGCCGACATCGGCCATTACGGC
 CGGGGAGGGACCCGACGCTCAGCTACAGCACAGCTCAGCACCATGAAGCTTCTCACGGGC
 CTGGTTTTCTGCTCCTTGGTCTGGGTGTCAGCAGCCGAAGCTTCTTTTCGTTCCCTTGGC
 GAGGCTTTTGATGGGGCTCGGGACATGTGGAGAGCCTACTCTGACATGAGAGAAGCCAAT
 TACATCGGCTCAGACAAAATACTTCCATGCTCGGGGAACTATGATGCTGCCAAAAGGGGA
 CCTGGGGGTGTCTGGGCTGCAGAAGCGATCAGCGATGCCAGAGAGAATATCCAGAGATTC
 TTTGGCCATGGTCCGGAGGACTCACTGGCCGATCAGGCTGCCGATGAATGGGCGAGGAGT
 GGCAAAGACCCCAATCACTTCCGACCTGCTGGCCTGCCTGAGAAATACTGAGCTTCTCT
 TCACTCTGCTCTCAGGAGATCTGGCTGTGAGGCCCTCAGGGCAGGGATACAAAGCGGGGA
 GAGGGTACACAATGGGTATCTAATAAATACTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
 AACATGTTTCGGCCGCTTTCGGCTCTCGACTTCTAGATTGCGNGCCGCGGTCATAGCTTG
 TTTCTGAACAGATCCCGGGTGGCATCCCTGTGACCCCTCCCCAGTGCCTCTCCTGGCCC
 TGAAGTTGCCACTCCAGTGCCACCAGCCTTGTCTAATAAAATTAAGTTGCATCATT
 TGTCTGACTAGGTGTCTTCTATATATATGGGTGGAGGGGGGGTGGTGGTTNGNNNNNAG
 GGGGNCNNTTGGGNNNCNCCCTTGTGGGGCTGCGGGGTCTTTTGG



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Restriction Sites:	Please inquire
ACCN:	BC007022
Insert Size:	537 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:	<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:	BC007022.1 , AAH07022.1
RefSeq Size:	537 bp
Locus ID:	6288
Cytogenetics:	11p15.1
Gene Summary:	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]