

## Product datasheet for SC119367

### Hsp47 (SERPINH1) (NM\_001235) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Hsp47 (SERPINH1) (NM_001235) Human Untagged Clone
Tag:	Tag Free
Symbol:	Hsp47
Synonyms:	AsTP3; CBP1; CBP2; gp46; HSP47; OI10; PIG14; PPROM; RA-A47; SERPINH2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC119367 sequence for NM_001235 edited (data generated by NextGen Sequencing)

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ATGCGCTCCCTCCTGCTTCTCAGCGCCTTCTGCCTCCTGGAGGCGGCCCTGGCCGCGAG
GTGAAGAAACCTGCAGCCGAGCAGCTCCTGGCACTGCGGAGAAGTTGAGCCCCAAGGCG
GCCACGCTTGCCGAGCGCAGCGCCGCGCCTGGCCTTCACTGTACCAGGCCATGGCCAAG
GACCAGGCAGTGGAGAACATCCTGGTGTACCCGTGGTGGTGGCCTCGTCGCTGGGGCTC
GTGTGCTGGGCGCAAGGCGACCAGCGCTCGCAGGCCAAGGCAGTGTGAGCGCCGAG
CAGCTGCGCGACGAGGAGGTGCACGCCGCGCTGGGCGAGCTGCTGCGCTCACTCAGCAAC
TCCACGGCGCGCAACGTGACCTGGAAGCTGGGCAGCCGACTGTACGGACCAGCTCAGTG
AGCTTCGCTGATGACTTCGTGCGCAGCAGCAAGCAGCACTACAACCTGCGAGCACTCCAAG
ATCAACTCCGCGACAAGCGCAGCGCGCTGCAGTCCATCAACAGTGGGCGCGCAGACC
ACCGACGCAAGCTGCCGAGGTCACCAAGGACGTGGAGCGCACGGACGGCGCCCTGTTA
GTCAACGCCATGTTCTTCAAGCCACACTGGGATGAGAAATTCCACCACAAGATGGTGGAC
AACCGTGGCTTATGGTACTCGGTCTATACCGTGGGTGTCATGATGATGCACCGGACA
GGCCTCTACAACACTACTACGACGACGAGAAGGAAAAGCTGCAAAATCGTGGAGATGCCCTG
GCCACAAGCTCTCCAGCCTCATCATCCTCATGCCCATCACGTGGAGCCTCTCGAGCGC
CTTGAAAAGCTGCTAACCAAGAGCAGCTGAAGATCTGGATGGGGAAGATGCAGAAGAAG
GCTGTTGCCATCTCCTTGCCCAAGGGTGTGGTGGAGGTGACCCATGACCTGCAGAAACAC
CTGGCTGGGCTGGGCTGACTGAGGCCATTGACAAGAACAAGGCCGACTTGTACGCATG
TCAGGCAAGAAGGACCTGTACCTGGCCAGCGTGTCCACGCCACCGCCTTTGAGTTGGAC
ACAGATGGCAACCCCTTTGACCAGGACATCTACGGGCGCGAGGACTGCGCAGCCCCAAG
CTGTTCTACGCCGACCCCTTCTATCTTCTAGTGCGGGACACCCAAAGCGGCTCCCTG
CTATTCATTGGGCGCCTGGTCCGGCCTAAGGGTGACAAGATGCGAGACGAGTTATAG

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Clone variation with respect to NM\_001235.3  
234 a=>g;598 c=>t



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_001235 unedited  
 TTTGGATTTGTAATACGACTTTTCTATAGGCGGCCGACGAATTCGCACGAGGCGCGGCTC  
 GAGAGCGAGAGTCACGTCCCAGGCTAGCCAGCCGACCCATGCCACCGTGGTGCACG  
 CAAACCACTTCTGGCCATGCGCTCCCTCCTGCTTCTCAGCGCCTTCTGCCTCCTGGAGG  
 CGGCCCTGGCCGCGAGGTGAAGAACTGCAGCCGACGAGCTCCTGGCACTGCGGAGA  
 AGTTGAGCCCCAAGGCGGCCACGCTTCCGAGCGCAGCGCCGCTGGCCTTCAGCTTGT  
 ACCAGGCCATGGCCAAGGACAGGCAAGTGGAGAACATCCTGGTGTACCCGTTGGTGG  
 CCTCGTCTGGGCTCGTGTCTGCTGGCGGCAAGGCGACACGCGTTCGAGGCCAAGG  
 CAGTGCTGAGCGCCGAGCAGCTGCGCGACGAGGAGGTGCACGCCGCTGGGCGAGCTGC  
 TCGCTCACTCAGCAACTCCACGGCGCAACGTGACCTGGAAGCTGGGAGCCGACTGT  
 ACGGACCCAGCTCAGTGAGCTTCGCTGATGACTTCGTGCGCAGCAAGCAGCACTACA  
 ACTGCGAGCACTCAAGATCAACTTCCGCGACAAGCGCAGCGCTGCAGTCCATCAACG  
 AGTGGGCCGCGCATACCACCGACAGCAGCTGCCGATGTACCAAGGACGTGGAGCGCA  
 CGGACGGCGCCCTGTTAGTCAACGCCATGTTCTCAGCCACTGGGATGAGAAATTCAC  
 CCACAGATGGTGGACACCGTGGCTTTCTGGTACTCGGTCCTTACCGTGGGTGCATGA  
 TGATGCACCGGACAGCCTTACACTACTACGACGACGAGAAGAATAGCTGCAAATCGTGG  
 AGATGCCCTGGCCACAAGCTCTCN

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_001235 unedited  
 TTATGGAACGCGGCCGCTTTTCTAGAAGTGAAGTTTTTCTTTTTTTTTTTGGCATT  
 GGGAAAGTTTTATTGAAAAAAAAAAGTACAATAAGTTCTTGGATTGATAGCAACAAAGG  
 CTCATGTTCCCCCTTCCCTCCCTATCTTTGAAGAACTAAAAAGGAAGAAACAAACAAA  
 AAGTTCATCCCCACAACGCCAGACACGATGCTTCTTGACCAGAGTCTGCCAGAAGCCCC  
 TCCTGGGAGTCTTCTCAATCCGCTCACTGCGGCCAGTTCATTCTGGGGTGCCTGGT  
 CCCAGGGGCTGCAGCACCTAGTTTTATAGTTGGGAGAGTTGGGATAGAGCTGGGGAGGC  
 AGCTGAGGTGTTTTAGTGTGAGAAGAGGCTGGCTGACCCCCCTAGCTCAATTTGGTCTC  
 ACAGGTGAGAAGGTACCTGGCTATAAATATGAATACTGATTGAGGCAGGCTTGATCTGGG  
 ACTTTCAGGGCAGGCAGAATGACTATGGCCAGGTCACAGGATGTGGAGTTTCCGGGC  
 TCAGCATCATGGTATCTGGGGCCATGTCCAAGTGGAGTGAATTTAGCTGGGAAGGTCC  
 GCTCAAGCACACGGGAACCCCGGTCTGCTTTTCCACCCCCACCCATGGAGTATCCAAGG  
 CTGGTACCTCACCTTCCCCCAACCCATAGCACCCATGTGTCTCAGGAGCCTTTGGATG  
 CCTCCTGCCATCCTGTGTGCACCCCTGAGCCCTATACTCGGCTTGCATCTTGTACCC  
 TTAAGCCGGACAGCCGCCAATGGATAACAGGAAGCCGCTTTTGTTCGTCGCCGACTAC  
 GAAGAAGAAAGCGGGGGCCGCTATAACAGCTTGGAGGCTGGCCAACCTCCTCCGCCCGC  
 AAAGGCCCTGCCAAAGGTTGCCATCTGTGGCCACTCAAGGCGGGGGTGGAACAGCTGT  
 CCAGTACAGGGCCTTTTGTGAATGGGAAA

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_001235

**Insert Size:**

2250 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:**

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\\_001235.2](#), [NP\\_001226.2](#)

**RefSeq Size:** 2208 bp

**RefSeq ORF:** 1257 bp

**Locus ID:** 871

**UniProt ID:** [P50454](#)

**Cytogenetics:** 11q13.5

**Domains:** SERPIN

**Protein Families:** Druggable Genome

**Gene Summary:** This gene encodes a member of the serpin superfamily of serine proteinase inhibitors. The encoded protein is localized to the endoplasmic reticulum and plays a role in collagen biosynthesis as a collagen-specific molecular chaperone. Autoantibodies to the encoded protein have been found in patients with rheumatoid arthritis. Expression of this gene may be a marker for cancer, and nucleotide polymorphisms in this gene may be associated with preterm birth caused by preterm premature rupture of membranes. Alternatively spliced transcript variants have been observed for this gene, and a pseudogene of this gene is located on the short arm of chromosome 9. [provided by RefSeq, May 2011]  
Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1 and 2 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.