

Product datasheet for **SC311137**

ARTS1 (ERAP1) (NM_001040458) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ARTS1 (ERAP1) (NM_001040458) Human Untagged Clone
Tag:	Tag Free
Symbol:	ARTS1
Synonyms:	A-LAP; ALAP; APPILS; ARTS-1; ARTS1; ERAAP; ERAAP1; PILS-AP; PILSAP
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_001040458 edited
GGCCAAATCGGCCGAGCTCGAATTTCGTGAGAGCGGGCTGGCCCTCAGGTGAGACTGCAG
TCCAGTCATCATCTTGATTGCAGCCACAGAACTACCAACCCACAGAACTGTAGGTA
GAGCAAGAAGATGGTGTCTGCCCCCAAATGGTCCCTTGCAACCATGTCATTTCTACT
TTCTCACTGTTGGCTCTCTTAAGTGTGCCACTCCTTCATGGTGTGAGAGCACTGAAGC
ATCTCCAAAACGTAGTGATGGGACACCATTTCCTTGAATAAAAATACGACTTCCTGAGTA
CGTCATCCAGTTCATTATGATCTCTTGATCCATGCAAACCTTACCACGCTGACCTTCTG
GGGAACACGAAAGTAGAAATCACAGCCAGTCAGCCACCAGCACCATCATCCTGCATAG
TCACCACCTGCAGATATCTAGGGCCACCCTCAGGAAGGGAGCTGGAGAGAGGCTATCGGA
AGAACCCTGCAGTCTGGAACACCCCGTCAGGAGCAAATGCACTGCTGGCTCCCGA
GCCCTCCTTGTGGGCTCCCGTACACAGTTGTCATTCACTATGCTGGCAATCTTTGCGA
GACTTTCACGGATTTTACAAAAGCACCTACAGAACCAAGGAAGGGGAAGTGAAGTACT
AGCATCAACACAATTTGAACCCACTGCAGCTAGAATGGCCTTTCCCTGCTTTGATGAACC
TGCCCTCAAAGCAAGTTTCTCAATCAAAATTAGAAGAGAGCAAGGCACCTAGCCATCTC
CAATATGCCATTGGTGAATCTGTGACTGTTGCTGAAGGACTCATAGAAGACATTTTGA
TGTCAGTGTGAAGATGAGCACCTATCTGGTGGCCTTCATCATTTTCAAGATTTTGAAGTCTGT
CAGCAAGATAACCAAGAGTGGAGTCAAGGTTTCTGTTTATGCTGTGCCAGACAAGATAAA
TCAAGCAGATTATGCACTGGATGCTGCGGTGACTCTTCTAGAATTTTATGAGGATTATTT
CAGCATACCGTATCCCCTACCAACAAGATCTTGCTGCTATTCCCGACTTTCAGTCTGG
TGCTATGGAAAAGTGGGACTGACAACATATAGAGAATCTGCTCTGTTGTTTATGATGAGTA
AAAGTCTTCTGCATCAAGTAAGCTTGGCATCACAATGACTGTGGCCCATGAACTGGCTCA
CCAGTGGTTTGGGAACCTGGTCACTATGGAATGGTGAATGATCTTTGGCTAAATGAAGG
ATTTGCCAAATTTATGGAGTTTGTGTCTGTGAGTGTGACCCATCCTGAACTGAAAGTTGG
AGATTATTTCTTTGGCAATGTTTTGACGCAATGGAGGTAGATGCTTTAAATTCCTCACA
CCCTGTGCTACACCTGTGAAAATCCTGCTCAGATCCGGGAGATGTTTATGATGATTTTC
TTATGATAAGGGAGCTTGTATTCTGAATATGCTAAGGGAGTATCTTAGTGCTGACGCATT
TAAAAGTGGTATTGTACAGTATCTCCAGAAGCATAGCTATAAAAAACAAAAACGAGGA



[View online »](#)

```

CCTGTGGGATAGTATGGCAAGTATTTGCCCTACAGATGGTGTAAAAGGGATGGATGGCTT
TTGCTCTAGAAGTCAACATTCATCTTCATCCTCACATTGGCATCAGGAAGGGTGGATGT
GAAAACCATGATGAACACTTGGACACTGCAGAAGGGTTTTCCCCTAATAACCATCACAGT
GAGGGGGAGGAATGTACACATGAAGCAAGAGCACTACATGAAGGGCTCTGACGGCGCCCC
GGACACTGGGTACCTGTGGCATGTTCCATTGACATTCATCACCAGCAAATCCGACATGGT
CCATCGATTTTTGCTAAAAACAAAAACAGATGTGCTCATCCTCCCAGAAGAGGTGGAATG
GATCAAAATTTAATGTGGGCATGAATGGCTATTACATTGTGCATTACGAGGATGATGGATG
GGACTCTTTGACTGGCCTTTTAAAAGGAACACACACAGCAGTCAGCAGTAATGATCGGGC
GAGTCTCATTAAACAATGCATTTTCAGCTCGTCAGCATTGGGAAGCTGCCATTGAAAAGGC
CTTGGATTTATCCCTGTACTTGAACATGAAACTGAAATTATGCCCGTGTTCAGGTTT
GAATGAGCTGATTCCTATGTATAAGTTAATGGAGAAAAGAGATATGAATGAAGTGAAAC
TCAATTCAAGGCCTTCTCATCAGGCTGCTAAGGGACCTCATTGATAAGCAGACATGGAC
AGACGAGGGCTCAGTCTCAGAGCGAATGCTGCGGAGTCAACTACTACTCCTCGCCTGTGT
GCACAACATCAGCCGTGCGTACAGAGGGCAGAAGGCTATTTAGAAAAGTGAAGGAATC
CAATGAAAACCTTGAGCCTGCCTGTCGACGTGACCTTGGCAGTGTGCTGTGGGGCCCCA
GAGCACAGAAGGCTGGGATTTTCTTTATAGTAAATATCAGTTTTCTTTGTCCAGTACTGA
GAAAAGCCAAATTGAATTTGCCCTCTGCAGAACCACAAAATAAGGAAAAGCTTCAATGGCT
ACTAGATGAAAGCTTTAAGGGAGATAAAAATAAAAACCTCAGGAGTTTCCACAAATCTTAC
ACTCATTGGCAGGAACCCAGTAGGATACCCACTGGCCTGGCAATTTCTGAGGAAAAACTG
GAACAACTTGTACAAAAGTTTGAACCTGGCTCATCTTCCATAGCCACATGGTAATGGG
TACAACAAATCAATCTCCACAAGAACACGGCTTGAAGAGGTAAAAGGATTCTTCAGCTC
TTTGAAAGAAAATGGTTCTCAGCTCCGTTGTGTCCAACAGACAATTGAAACCATTGAAGA
AAACATCGGTTGGATGGATAAGAATTTTGATAAAATCAGAGTGTGGCTGCAAAGTGAAAA
GCTTGAACGTATGAAAAATTCCTCCCTTGCCAGGTTCCCTGTTATCTCTAATCACCAACA
TTTTGTTGAGTGTATTTTCAAAC TAGAGATGGCTGTTTTGGCTCCAACCTGGAGATACTTT
TTTCCCTTCAACTCATTTTTTACTATCCCTGTGAAAAGAATAGCTGTTAGTTTTTTCATG
AATGGGCTATCGTACCATGTGTTTTGTTTCATCACAGGTGTTGCCCTGCAACGTAACCC
AAGTGTGGGTTCCCTGCCACAGAAGAATAAAGTACCTTATTCTTCTCATTTTTATAGTTT
ATGCTTAAGCACCCGTGCCAAAACCTGTACCCCATGTTTATCATTCAAACTGTTTC
ATCAGCCAAAAAAAAAAAAAAAAAAAA

```

- Restriction Sites:** Please inquire
- ACCN:** NM_001040458
- Insert Size:** 3300 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).
- OTI Annotation:** The ORF of this clone has been fully sequenced and found to be a perfect match to NM_001040458.1.
- 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_001040458.1](#), [NP_001035548.1](#)

RefSeq Size: 5085 bp

RefSeq ORF: 2826 bp

Locus ID: 51752

UniProt ID: [Q9NZ08](#)

Cytogenetics: 5q15

Protein Families: Druggable Genome, Protease, Secreted Protein

Gene Summary: The protein encoded by this gene is an aminopeptidase involved in trimming HLA class I-binding precursors so that they can be presented on MHC class I molecules. The encoded protein acts as a monomer or as a heterodimer with ERAP2. This protein may also be involved in blood pressure regulation by inactivation of angiotensin II. Three transcript variants encoding two different isoforms have been found for this gene.[provided by RefSeq, Oct 2010]

Transcript Variant: This variant (2) differs in the 3' UTR and coding sequence compared to variant 1. The resulting isoform (b) has a shorter and distinct C-terminus compared to isoform a. Variants 2 and 3 both encode the same isoform. 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.