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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_016442 unedited
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 TCAATTTCTACTTTCTCACTGTTGGCTCTTAACTGTGTCCACTCCTTCATGGTGTGAG
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 TTTGATGAACCTGCCTTCAAAGCAAGTTTCTCAATCAAATTAGAAGAGAGCCAAGGCAC
 CTAGCCATCTCCAATATGCCATTGGTGAATCTGTGACTGTTGCTGAAGGACTCATANAA
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3' Read Nucleotide Sequence:

>OriGene 3' read for NM_016442 unedited
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 ATTATTTCAATGATACATTCGAAAATAAATGTATAAAATATGAAAAGTCCATAAAAGCA
 TTTTTAGTACTTTTAGGTAAGATTAATCCAATAAACAATAGCATATGTTATACAGTAA
 TAATAAGGGGAAAATACAATAATGTTGAGAAAGCAAATCAAAGCATAGATCAATGAAAA
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 ATGCTTTTGGGTAGCATTAGATGAATTAATAACATATGCACATATAGCTTTGCGATACA
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 TCGCTCACCATCACGCTTGTCTCGCTCCTCCACCGCATCGACCGCTCATACGGTCTC
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 CCGTCCCCCTTTCCCCCGTCCCACTTCCATCCATCCCCCCCCGTCAT

Restriction Sites:
ACCN:
Insert Size:

NotI-NotI
 NM_016442
 5300 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 open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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:	NM_016442.3 , NP_057526.3
RefSeq Size:	5584 bp
RefSeq ORF:	2847 bp
Locus ID:	51752
UniProt ID:	Q9NZ08
Cytogenetics:	5q15
Domains:	Peptidase_M1
Protein Families:	Druggable Genome, Protease, Secreted Protein
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (a). Variants 1 and 4 encode the same 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>