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Product datasheet for SC108509

Tripeptidyl peptidase II (TPP2) (NM_003291) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tripeptidyl peptidase II (TPP2) (NM_003291) Human Untagged Clone
Tag:	Tag Free
Symbol:	Tripeptidyl peptidase II
Synonyms:	IMD78; TPP-2; TPP-II; TPPII
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC108509 sequence for NM_003291 edited (data generated by NextGen Sequencing)

ATGGCCACCGCTGCGACTGAGGAGCCCTTCCCTTTTCACGGTCTCCTGCCGAAGAAGGAG
ACCGGAGCCGCCTCCTTCCTCTGCCGCTACCCGGAGTATGATGGGCGGGGGGTGCTCATC
GCAGTCCTGGACACGGGGGTCGACCCGGGGGCTCCGGGCATGCAGGTTACAACTGATGGA
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AACGGCTCTTCTCAAGCAAATAAACTAATCAAGGAGGAACTTCAAAGTCAAGTGGAATTG
CTAAATTCTTTTGAGAAGAAATACAGCGATCCTGGCCCTGTATATGACTGCTTGGTATGG
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TCTACCGTGTTGAGAAACTACAAAGAAGCCCAAGAATATGGCTCTTTTGGCACAGCTGAG
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GCTCTAGAAAACACTGCAGTGAAGGCTGACAATATAGAAGTATTTGCTCAAGGACATGGT

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ATTATTCAGGTTGATAAAGCCTATGACTACCTCGTTCAGAATACATCATTTGCTAATAAA
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CTGATGAAGTTACTTGGATGGACCCATTGTGCATCTTTTACTGAAAACTGGCTCCCCATC
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Clone variation with respect to NM_003291.2

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_003291 unedited
GTTTTTNGGNAATTATGTNAATACGCACTTCACTNTAAGGGNCGCGCCGCGNAATTCGGC
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GAAGGAGACCGGAGCCGCCTCCTTCCTCTGCCGCTACCCGGAGCATGATGGGCGGGGGGC
GCTCATCGCAGTCCTGGACACGGGGGTCGACCCGGGCGCTCCGGGCATGCAGGCTACAAC
TGATGGAAAACCAAAAATCGCCGATATCATTGATACAACAGGAAGCGGCGATGCGAATAC
TGCTACAGAAGTATAGCCAAAGGATGGTGAGATTGTTGGCCTTTCAGGAAGAGTGCTTAA
GATTCCTGCAAGCTGGACAAATCCCTCAGGCAAATATCATATTGCCATAAAAAATGGCTA
TGACTTCTATCCTAAGGCACTCAAGGAAAGGATACAGAAAGAACGGAAGGAAAAAACCTG
GGACCCTGTTCACCAGAGTGGCCCTTGCACAAGCCTGTAGAAAACAGGAAGAATTCGATG
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TCACAGTTGAAATGGTGAATTACTCCGCTCATATATACGATGATCGTAACCCTGCTCTCC
ATTGCGACCAACGCGAGGAGCCTATGCCACCCTCGCACTCACTATAGCCTGCTCGACACT
TCCCACACAACCTGAACGAAATGCGGGACCTCCTGCGCCCAATTCTTTCATCAAAATCGT
GA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_003291 unedited
NCCTATATATGANACCGCGGCCGCAATCTAGNATCGAGTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAAAACAGGGCTTTTTAAAAACCAGCCCG
GGATAGGGGAGGAAAACATGCTTTAAACTAAAAAGGCCACAAATTTGTTTTTATCCCCAT
TCACTATAAAACTTCCTTTTTTAAAATTAAAAGGCTGGTTCCCTTTTTTAAAATCCCCAA
TAATCGGGGGGATCCATGAGGGGGACCCATTTTTAAATAAAAAATGCCCAAGGGGCCCAT
CCAAGAAACTTCATAAGTGGAATACAATTTTCCCAGTTTTTTTTGGGGGGGTTTTCTTCC
ACAAGTTAAGTGGCAATTTTAAGGCCCCCCCCCTCCATTTTTTTAACTAAGGCATGGTTA
TACGCAAAGGTACAAACCTTTTTGGCCAAGAAATACCCCCCTTGACGAGTCCCCCCAAAG
GTGTCGTGCAAAAAATCACAAGGCCCTTTTCCTCCTCCCCGTTTTTCTCTTGCATAGCGG
GAACGGGCTCCCCCTTAGCCCGCGGCTGCTAAAAATACGGCCTCACTTCGCACCCTCCCT
TCCAGCAGGGAGCATCACTCGAGGCGGTCTTATGAGTATCGCGATATTCGTCTCTCCTCA
TGTCTCACCTCCTCGCTCCCGCCCTCCTTGCACCTCTTAGGTCGCCGCCCCTCTCCCATA
TTCGTACCGAACCCGCTCGGTGCGTCGAGCTCTCCGATCCCCGCGCTCGCTGCGAGCTCC
CTCACCCGTACCGCGTATCTCCGCCGTTTCCGCTCTAGCCCGGCCCCTCGCGACCCAAAC
TGCACACCGTCCGCCCCTCTCACCACATCTTTCCTCTTCTCGCCAGACCTATACGATTTA
CCTGTACTTTATATATCCGCGCCACCGATTCCCACCCCCCTACCG

Restriction Sites: NotI-NotI

ACCN: NM_003291

Insert Size: 4100 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_003291.1, NP_003282.1
RefSeq Size:	4626 bp
RefSeq ORF:	3750 bp
Locus ID:	7174
UniProt ID:	P29144
Cytogenetics:	13q33.1
Domains:	Peptidase_S8
Protein Families:	Druggable Genome, Protease
Gene Summary:	This gene encodes a mammalian peptidase that, at neutral pH, removes tripeptides from the N terminus of longer peptides. The protein has a specialized function that is essential for some MHC class I antigen presentation. The protein is a high molecular mass serine exopeptidase; the amino acid sequence surrounding the serine residue at the active site is similar to the peptidases of the subtilisin class rather than the trypsin class. [provided by RefSeq, Jul 2008] Transcript Variant: This variant (1) represents the shortest transcript and encodes the shortest, but most predominant, isoform (1).