OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RG207917

Tripeptidyl peptidase II (TPP2) (NM_003291) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tripeptidyl peptidase II (TPP2) (NM_003291) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tripeptidyl peptidase II
Synonyms:	IMD78; TPP-2; TPP-II; TPPII
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG207917 representing NM_003291
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCACCGCTGCGACTGAGGAGCCCTTCCCTTTTCACGGTCTCCTGCCGAAGAAGGAGACCGGAGCCG
CCTCCTTCCTCTGCCGCTACCCGGAGTATGATGGGCGGGGGGTGCTCATCGCAGTCCTGGACACGGGGGT
CGACCCGGGGGCTCCGGGCATGCAGGTTACAACTGATGGAAAACCAAAAATCGTTGATATCATTGATACA
ACAGGAAGTGGCGATGTGAATACTGCTACAGAAGTAGAGCCAAAGGATGGTGAGATTGTTGGCCTTTCAG
GAAGAGTGCTTAAGATTCCTGCAAGCTGGACAAATCCCTCAGGCAAATATCATATTGGCATAAAAAATGG
CTATGACTTCTATCCTAAGGCACTCAAGGAAAGGATACAGAAAGAACGGAAGGAAAAAATCTGGGACCCT
GTTCACAGAGTGGCCCTTGCAGAAGCCTGTAGAAAACAGGAAGAATTTGATGTTGCCAACAACGGCTCTT
CTCAAGCAAATAAACTAATCAAGGAGGAACTTCAAAGTCAAGTGGAATTGCTAAATTCTTTTGAGAAGAA
ATACAGCGATCCTGGCCCTGTATATGACTGCTTGGTATGGCATGATGGCGAAGTCTGGAGAGCCTGCATT
GATTCTAATGAAGATGGGGACTTGAGTAAATCTACCGTGTTGAGAAACTACAAAGAAGCCCAAGAATATG
GCTCTTTTGGCACAGCTGAGATGTTGAATTACTCCGTTAATATATACGATGATGGAAACCTGCTCTCCAT
TGTGACCAGCGGAGGAGCTCATGGGACACATGTAGCTAGTATAGCTGCTGGACACTTTCCAGAAGAACCT
GAACGGAATGGGGTAGCTCCTGGTGCTCAAATTCTTTCCATCAAGATTGGTGATACAAGACTAAGCACAA
TGGAAACAGGCACAGGCCTCATAAGAGCTATGATAGAAGTTATAAATCATAAGTGTGATCTTGTCAACTA
CAGTTACGGAGAAGCAACTCACTGGCCAAATTCTGGGAGAATTTGTGAAGTAATTAATGAAGCAGTATGG
AAGCATAATATAATTTATGTTTCAAGTGCTGGAAATAATGGTCCATGCCTGTCTACAGTTGGTTGTCCAG
GTGGAACTACATCAAGTGTGATAGGTGTTGGTGCTTATGTTTCTCCTGATATGATGGTTGCTGAGTATTC
ACTGAGAGAGAAATTACCTGCAAATCAATATACTTGGTCTTCTAGAGGACCTAGTGCTGACGGGGCCCTT
GGTGTGAGTATCAGTGCGCCAGGAGGAGCCATTGCTTCTGTTCCTAACTGGACACTGAGAGGGACGCAGC
TGATGAATGGAACATCTATGTCTTCCCCCAATGCATGTGGAGGCATTGCCCTGATCCTTTCAGGTCTGAA
AGCTAATAACATTGACTACACAGTTCATTCAGTCAGAAGAGCTCTAGAAAACACTGCAGTGAAGGCTGAC

View online »

AATATAGAAGTATTTGCTCAAGGACATGGTATTATTCAGGTTGATAAAGCCTATGACTACCTCGTTCAGA
ATACATCATTTGCTAATAAATTAGGTTTTACTGTTACTGTTGGAAATAACCGTGGCATCTACCTCCGAGA
TCCTGTTCAGGTGGCTGCACCTTCAGATCATGGCGTTGGCATTGAACCTGTATTTCCGGAGAACACAGAA
AACTCTGAAAAAATATCCCTTCAGCTTCATTTAGCTCTGACTTCAAATTCATCTTGGGTTCAGTGTCCCA
GCCATTTGGAACTCATGAATCAATGTAGACACATAAACATACGTGTGGATCCCAGGGGCTTAAGAGAAGG
ATTGCATTATACAGAGGTATGTGGCTATGATATAGCATCCCCTAACGCAGGTCCGCTCTTCAGAGTTCCG
ATCACTGCAGTTATAGCAGCAAAAGTAAATGAATCATCACATTATGATCTAGCCTTTACAGATGTACACT
TTAAACCTGGTCAAATTCGAAGGCATTTTATTGAGGTTCCTGAGGGTGCAACATGGGCTGAAGTGACAGT
GTGTTCGTGTTCTTCTGAGGTGTCAGCAAAGTTTGTTCTACATGCAGTCCAGCTTGTGAAGCAAAGAGCA
TATCGAAGCCATGAATTCTATAAGTTTTGTTCTCTTCCAGAGAAAGGAACACTGACTGAAGCTTTTCCTG
TCCTAGGTGGAAAAGCAATTGAATTTTGCATTGCTCGTTGGTGGGCAAGTCTCAGTGATGTCAACATTGA
TTATACCATTTCTTTCCATGGGATAGTGTGTACTGCTCCTCAGTTAAACATTCATGCATCGGAAGGAATC
AACCGCTTTGATGTTCAGTCCTCCTTGAAATACGAAGATCTGGCTCCCTGCATAACTTTGAAGAACTGGG
TCCAAACACTGCGCCCAGTGAGTGCAAAAACAAAACCTTTAGGATCAAGAGATGTTTTGCCAAATAACCG
TCAACTTTATGAGATGGTCCTGACATATAACTTTCATCAACCCAAGAGTGGGGAAGTAACTCCAAGCTGC
CCACTACTTTGTGAACTATTATATGAATCTGAATTTGACAGCCAACTGTGGATTATTTTTGACCAGAACA
AAAGACAGATGGGTTCAGGCGATGCCTATCCACATCAGTATTCTTTGAAACTGGAGAAAGGAGATTATAC
AATTCGACTACAGATTCGCCATGAGCAAATCAGTGATTTGGAACGCCTTAAAGACCTTCCATTTATTGTT
TCTCATAGATTGTCTAATACCTTGAGCTTAGATATTCATGAAAATCATAGTTTTGCACTTCTAGGGAAGA
AGAAATCAAGCAATTTGACATTACCACCCAAATATAACCAGCCATTCTTTGTTACTTCCTTACCTGATGA
TAAAATACCTAAAGGGGCAGGACCTGGATGCTATCTTGCAGGATCCTTAACATTGTCAAAGACTGAACTA
GGAAAGAAAGCTGATGTAATCCCTGTTCATTACTACTTAATACCTCCACCAACAAAGACTAAGAATGGCA
GCAAAGATAAGGAAAAAGATTCAGAAAAAGAGAAAGATTTAAAAGAAGAGTTTACTGAAGCATTACGAGA
TCTTAAAATTCAGTGGATGACAAAGCTGGATTCTAGTGACATTTATAACGAATTGAAAGAAACATATCCT
AATTATCTTCCTCTGTACGTTGCACGACTTCATCAATTGGATGCTGAAAAGGAACGAATGAAAAGACTTA
ATGAAATTGTTGATGCGGCAAATGCTGTTATTTCTCATATAGATCAAACAGCCCTAGCAGTTTATATTGC
AATGAAGACTGATCCCAGGCCTGATGCAGCTACTATAAAAAATGACATGGACAAACAAAAATCCACCCTC
GTAGATGCCCTTTGTAGGAAAGGTTGTGCCCTGGCAGACCATCTTCTTCACACCCAGGCTCAAGACGGAG
CCATTTCCACTGATGCAGAAGGAAAGGAGGAGGAAGGAGAAAGTCCTTTGGATTCTCTGGCAGAAACATT
TTGGGAAACTACTAAATGGACTGATCTCTTTGACAATAAGGTTTTGACATTTGCATATAAACATGCATTA
GTAAATAAAATGTATGGGAGAGGCCTTAAATTTGCAACTAAACTTGTGGAAGAAAAACCAACAAAAGAAA
ACTGGAAAAATTGTATTCAACTGATGAAGTTACTTGGATGGACCCATTGTGCATCTTTTACTGAAAACTG
GCTCCCCATCATGTATCCTCCCGATTATTGCGTATTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

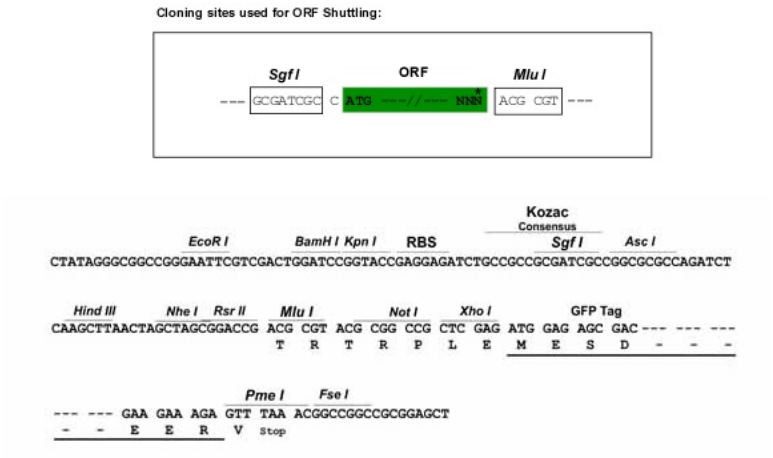
>RG207917 representing NM_003291
Red=Cloning site Green=Tags(s)

MATAATEEPFPFHGLLPKKETGAASFLCRYPEYDGRGVLIAVLDTGVDPGAPGMQVTTDGKPKIVDIIDT
TGSGDVNTATEVEPKDGEIVGLSGRVLKIPASWTNPSGKYHIGIKNGYDFYPKALKERIQKERKEKIWDP
VHRVALAEACRKQEEFDVANNGSSQANKLIKEELQSQVELLNSFEKKYSDPGPVYDCLVWHDGEVWRACI
DSNEDGDLSKSTVLRNYKEAQEYGSFGTAEMLNYSVNIYDDGNLLSIVTSGGAHGTHVASIAAGHFPEEP
ERNGVAPGAQILSIKIGDTRLSTMETGTGLIRAMIEVINHKCDLVNYSYGEATHWPNSGRICEVINEAVW
KHNIIYVSSAGNNGPCLSTVGCPGGTTSSVIGVGAYVSPDMMVAEYSLREKLPANQYTWSSRGPSADGAL
GVSISAPGGAIASVPNWTLRGTQLMNGTSMSSPNACGGIALILSGLKANNIDYTVHSVRRALENTAVKAD
NIEVFAQGHGIIQVDKAYDYLVQNTSFANKLGFTVTVGNNRGIYLRDPVQVAAPSDHGVGIEPVFPENTE
NSEKISLQLHLALTSNSSWVQCPSHLELMNQCRHINIRVDPRGLREGLHYTEVCGYDIASPNAGPLFRVP
ITAVIAAKVNESSHYDLAFTDVHFKPGQIRRHFIEVPEGATWAEVTVCSCSSEVSAKFVLHAVQLVKQRA
YRSHEFYKFCSLPEKGTLTEAFPVLGGKAIEFCIARWWASLSDVNIDYTISFHGIVCTAPQLNIHASEGI
NRFDVQSSLKYEDLAPCITLKNWVQTLRPVSAKTKPLGSRDVLPNNRQLYEMVLTYNFHQPKSGEVTPSC
PLLCELLYESEFDSQLWIIFDQNKRQMGSGDAYPHQYSLKLEKGDYTIRLQIRHEQISDLERLKDLPFIV
SHRLSNTLSLDIHENHSFALLGKKKSSNLTLPPKYNQPFFVTSLPDDKIPKGAGPGCYLAGSLTLSKTEL
GKKADVIPVHYYLIPPPTKTKNGSKDKEKDSEKEKDLKEEFTEALRDLKIQWMTKLDSSDIYNELKETYP
NYLPLYVARLHQLDAEKERMKRLNEIVDAANAVISHIDQTALAVYIAMKTDPRPDAATIKNDMDKQKSTL
VDALCRKGCALADHLLHTQAQDGAISTDAEGKEEEGESPLDSLAETFWETTKWTDLFDNKVLTFAYKHAL
VNKMYGRGLKFATKLVEEKPTKENWKNCIQLMKLLGWTHCASFTENWLPIMYPPDYCVF

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

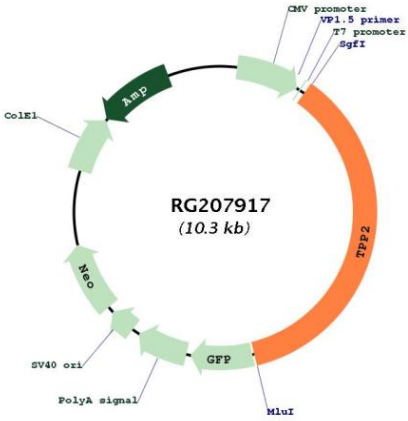


ACCN: NM_003291

ORF Size: 3747 bp

OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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]

Product images:



Circular map for RG207917