

Product datasheet for **RN205838**

Erap1 (NM_030836) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Erap1 (NM_030836) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Erap1
Synonyms:	Appils; Arts1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN205838 representing NM_030836
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCCTCTCTTCTTCCCTAGTATTGACCTTTTTAGCTGTGTCTTCTCCTTCTGTTGTCAGAACAGTG
 ACACAGCATCTCCAAAAGCTAGTAATGGGCCTCATTCCCTTGAATAATATGCGACTTCCTGAGTATAT
 CACCCCAATTCATTATGATCTCATGATCCATGCAAACCTTAGCACTCTGACTTTCTGGGGAAAACAGAA
 GTAGAAATCACAGTTAGCCAGCCACCAGCACCATTATCATGCATAGTACCAGCTGCAAATATCTAAGG
 CCACCCTCAGGAGAGGAGCTGAAGAGATGCTGCCTGAAGAACCACTGAAGCTCATGGAATATTCTGCTCA
 TGAGCAAGTTGCACTGCTGACTGCCAGCCGCTCCTTGTGGTCCGTGTACACAGTTATCATCACCTAT
 GCTGCCAACCTGTCTGAGAATTTCCATGGATTCTATAAAAGCACCTACAGAACACAGGAGGGGAAAGGA
 GAATACTTGCAAGCACAGTTTGAACCCACAGCTGCTAGAATGGCTTTTCCCTGCTTTGATGAGCCTGC
 CCTCAAGCAAGTTTTTCCATCAAGATAAAGAGGGATCCAAGGCACCTGGCCATCTCCAACATGCCCTTG
 GTGAAATCTGTGACTGTTGCTGAAGGACTCATAGAAGACCATTTTGACATCACTGTGAAAATGAGCACCT
 ACCTTGTGGCCTTCATTATTTCTGATTTAAGTCTGTGAGCAAGATGACTAAGAGTGGAGTCAAGGTCTC
 TGTGTATGCTGTGCCAGACAAGATAAATCAAGCAGATTATGCTCTGGATGCTGCAGTGACTCTTCTAGAG
 TTTTATGAGGATTATTTCAAGTCCATATCCTTTACCAAGCAAGATCTTGCTGCAATTCAGACTTTT
 AGTCTGGTGTATGAAAACTGGGGCTGACCACATACAGAGAATCTGCTTTGTTATATGATAAAGAAAA
 GTCTTCTGCATCCAGTAAAGCTGGCATCACAATGACTGTATCCCATGAACTGGCTCACCAGTGGTTCCGG
 AACTTGGTCACAATGGAATGGTGAATGACCTTTGGCTCAATGAAGGATTTGCCAAATTTATGGAGTTTG
 TGTCTGCACTGTGACCCATCCTGAATTAAGTTGAAGAATATTTTTTTGGCAAGTGTAAATGCAAT
 GGAAGTTGATGCATTAACCTCCTCACCTGTATCCACACCTGTGGAGAATCTGCACAGATTCGGGAG
 ATGTTTGTAGGTTTCTTATGAAAAGGTTGCTTGTATTCTGAATATGCTAAGAGATTATCTGAGTGCAG
 ATACATTTAAAAGAGGAATTGTACAGTATCTTCAAAGTATAGTTATAAAAAACGAAAAATGAGGACCT
 GTGGAATAGCATGATGCATATTTGTCCCACAGATGGCACACAAACAATGGATGGCTTTTGTCTAGGAAC
 CAACACTCATCATCAACCTCACACTGGCGTCAGGAGTTATAGATATAAAGAGCATGATGAACACATGGA
 CACTGCAGAAGGGCTTTCCTCTGATAACCATCACTGTAAGAGGGCGGAATGTGCACTTGAAGCAAGAACA
 CTACATGAAAGGTTCTGAATGCTTCCCAGAGACTGGGTCTCTGTGGCATGTTCCGCTGACATTCATTACC
 AGCAAATCAGATTCAGTCCAGAGATTTTGTGTAAGACAAGACAGATGTGATCATCTCCAGAAGCAG
 TGGAAATGGATCAAATTAATGTAGGAATGAATGGCTATTACATTTGTCATTACGGGGATGATGGATGGGC
 TTCTCTGAATGGCCTCTTAAAAGAAGCACATACAACAATCAGCAGTAATGATCGGGCAAGTCTCATCAAC
 AATGCATTTCACTGGTCAAGTATCGGAAAGTATCAATTGAAAAAGCCCTGGATTTAATCCTGTACTTGA
 AAAATGAAACTGAAATATGCCCATATTCGAAGTTTGAATGAACTGATACCTATGTATAAGTTAATGGA
 GAAAAGAGATATGGTTGAGGTGGAACTCAATTCAGGACTTTCTCCTCAGGCTGCTAAAGGACCTTATT
 AATAAGCAGACCTGGACAGATGAAGGCTCTGTCTCAGAGAGGATGCTCAGGAGCCAGCTCTTACTCCTAG
 CATGTGTGCACAGGTATCAGCTCTGCGTGCAGAGGGCAGAGCGCTATTTCAAGAGTGAAGGCATCCAA
 TGGAAACATGAGCCTCCCTATTGATGTGACCTTTGGCGGTGTTGCTGTTGGGGCCAGAACACAGAAGGC
 TGGGATTTTCTTTATAGTAAATATCAGTCTTCTTTGTCTAGTACCGAGAAAAGCCAAATTAATTTTCCC
 TCTGCATAAGCCAAGACCAGAAAACTTCAAGTGGCTTCTAGACCAAAGTTTTAAGGAGAGATAATAAA
 AACTCAGGAATCCACATATTCTCAGCTCATTGGCAGAAACCAAGTGGTTATCCATTGGCCTGGAAG
 TTTCTGAAGGAAAATGGAAACAAGATTGTACAGAAATTTGAACCTGGCTCATCATCCATAGCTCACATGG
 TAATGGGAACAACAACCAAGTTTTCCACCAGAGCAGTCTTGAAGAGGTAAGGGGTGTATG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI
ACCN: NM_030836

Insert Size:	2655 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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_030836.1 , NP_110463.1
RefSeq Size:	5042 bp
RefSeq ORF:	2655 bp
Locus ID:	80897
UniProt ID:	Q9JJ22
Cytogenetics:	2q11
Gene Summary:	aminopeptidase enzyme; catalyzes the puromycin-insensitive Zn-dependent hydrolysis of N-terminal Leu; plays a role in processing antigenic precursors for MHC class I presentation [RGD, Feb 2006]