

## Product datasheet for **RC226278**

### ERAP2 (NM\_001130140) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ERAP2 (NM_001130140) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ERAP2
Synonyms:	L-RAP; LRAP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC226278 representing NM\_001130140  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTTCCATTCTTCTGCAATGGTTAATTCACACAGAAAACCAATGTTAACATTCACAGAGGATTTTACT  
 GCTTAACAGCCATCTTGCCCAAATATGCATTTGTTCTCAGTTCTCAGTGCCATCTAGTTATCACTTCAC  
 TGAGGATCCTGGGGCTTTCCAGTAGCCACTAATGGGGAACGATTTCTTGGCAGGAGCTAAGGCTCCCC  
 AGTGTGGTCATTCTCCATTATGACCTCTTTGTCCACCCCAATCTCACCTCTCTGGACTTTGTTGCAT  
 CTGAGAAGATCGAAGTCTTGGTCAGCAATGCTACCCAGTTTATCATCTTGACAGCAAAGATCTTGAAT  
 CACGAATGCCACCCTCAGTCAGAGGAAGATTCAAGATACATGAAACCAGGAAAAGAACTGAAAGTTTTG  
 AGTTACCCTGCTCATGAACAAATGCACTGCTGGTTCAGAGAACTTACGCCTCACCTGAAATACTATG  
 TGGCTATGGACTTCCAAGCCAAGTTAGGTGATGGCTTTGAAGGGTTTTATAAAGCACATACAGAATCT  
 TGGTGGTGAACAAGAATTCTTGCAGTAACAGATTTTGAAGCAACCCAGGCACGCATGGCTTTCCCTTGC  
 TTTGATGAACCGTTGTTCAAAGCCAATTTTCAATCAAGATACGAAGAGAGAGCAGGCATATTGCACTAT  
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 AAAAATGAGTACATACCTTGTAGCCTACATAGTTTGTGATTTCCACTCTCTGAGTGGCTTCACTTCATCA  
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 TTTGACCCCAAGACCTCTTCTGCTCCGATAAACTGTGGTCCAGAGTCATAGCCCATGAACTGGCCG  
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 ATTGAACTAGGAATGGAAGGAAAGGTTATCAAGACACAGAAGCTTGGCAGCTCTCCTTCATGCGATTGCCA  
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 TTCTGAAAACGATAACCAAAAATATAAAATGGCTGGAGAAGAATCTCCGACTCTGAGGACTTGGCTAAT  
 GGTTAATACT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC226278 representing NM\_001130140  
 Red=Cloning site Green=Tags(s)

MFHSSAMVNSHRKPMFNIHRGFYCLTAILPQICICSQFSVPSSYHFTEDPGAFPVATNGERFPWQELRLP  
 SVVIPLHYDLFVHPNLTSLDFVASEKIEVLVSNATQFIILHSKDLEITNATLQSEEDSRYMKPGKELKVL  
 SYPAHEQIALLVPEKLTPLHKYVYVAMDFQAKLGDGFEGFYKSTYRTLGGETRILAVTDFEPTQARMAFPC  
 FDEPLFKANFSIKIRRESRHIALSNMPKVKTIELEGGLEDHFETTVMKSTYLVAYIVCDFHLSGFTSS  
 GVKVSIYASPDKRNQTHYALQASLKLLDFYEKYFDIYYPLSKLDLIAIPDFAPGAMENWGLITYRETSL  
 FDPKTSSASDKLWVTRVIAHEL AHQWFGNLTMEWWDIWLKEGFAKYMELIAVNATYPELQFDYFLNV  
 CFEVITKDSLNSRPISKPAETPTQIQEMFDEVSYNKGACILNMLKDFLGEEKFQKGIQYLKFKFSYRNA  
 KNDDLWSSLNSCLESDF TSGGVCHSDPKMTSNMLAFLGENAEVKEMTTWTLQKGIPLLVKQDGC SLR  
 LQQRFLQGVFQEDPEWRALQERYLWHIPLTYSTSSNVIHRHILKSKTDTLDLPEKTSWVKFNVD SNGY  
 YIVHYEGHGDQLITQLNQNHTLLRPKDRVGLIHDVFQLVGAGRLTLDKALDMTYLQHETSSPALLEGL  
 SYLESFYHMMDRRNI SDI SENLKRYLLQYFKPVIDRQSWSDKGSVWRMLRSALLKLACDLNHAPCIQKA  
 AELFSQWMESSGKLNIP TDV LKIVYSVGAQT TAGWNYLLEQYELSMSSAEQNKILYALSTSKHQEKLLKL  
 IELGMEGKVIKTQNL AALLHAIARRPKGQQLAWDFVRENWTHLLKKFDLGSYDIRMIISGTTAHFSSKDK  
 LQEVKLFESLEAQGSHLDIFQTVLETITKNIKWLEKNLPTLR T WLMVNT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

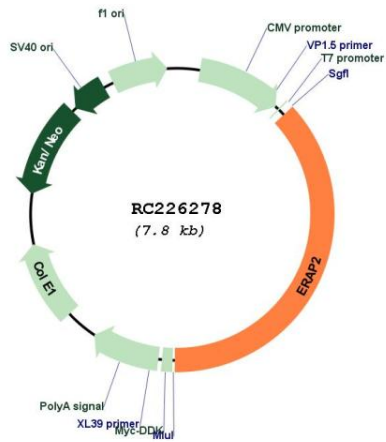


ACCN: NM\_001130140

ORF Size: 2880 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_001130140.2</a>
<b>RefSeq ORF:</b>	2883 bp
<b>Locus ID:</b>	64167
<b>UniProt ID:</b>	<a href="#">Q6P179</a>
<b>Cytogenetics:</b>	5q15
<b>Protein Families:</b>	Druggable Genome, Protease
<b>MW:</b>	110.3 kDa
<b>Gene Summary:</b>	This gene encodes a zinc metalloaminopeptidase of the M1 protease family that resides in the endoplasmic reticulum and functions in N-terminal trimming antigenic epitopes for presentation by major histocompatibility complex (MHC) class I molecules. Certain mutations in this gene are associated with the inflammatory arthritis syndrome ankylosing spondylitis and pre-eclampsia. This gene is located adjacent to a closely related aminopeptidase gene on chromosome 5. [provided by RefSeq, Jul 2016]

Product images:



Circular map for RC226278