

## Product datasheet for **RG226278**

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

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ERAP2 (NM_001130140) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ERAP2
Synonyms:	L-RAP; LRAP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG226278 representing NM\_001130140  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTTCCATTCTTCTGCAATGGTTAATTCACACAGAAAACCAATGTTAACATTCACAGAGGATTTTACT  
 GCTTAACAGCCATCTTGCCCAAATATGCATTTGTTCTCAGTTCTCAGTGCCATCTAGTTATCACTTCAC  
 TGAGGATCCTGGGGCTTTCCAGTAGCCACTAATGGGGAACGATTTCTTGGCAGGAGCTAAGGCTCCCC  
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 CTGAGAAGATCGAAGTCTTGGTCAGCAATGCTACCCAGTTTATCATCTTGACAGCAAAGATCTTGAAT  
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 GGTTAATACT

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >RG226278 representing NM\_001130140  
Red=Cloning site Green=Tags(s)

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MFHSSAMVNSHRKPMFNIHRGFYCLTAILPQICICSQFSVPSSYHFTEDPGAFPVATNGERFPWQELRLP
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GKVSIYASPKRNQTHYALQASLKLDFYEKYFDIYYPLSKLDLIAIPDFAPGAMENWGLITYRETSL
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TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

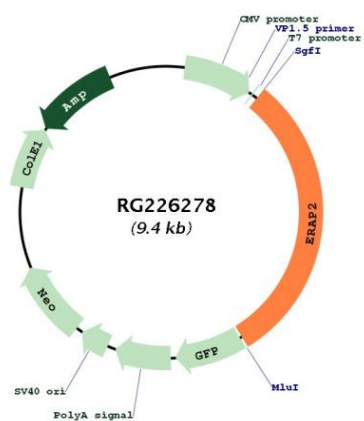


**ACCN:** NM\_001130140

**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 Size:</b>	5254 bp
<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>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 RG226278