

Product datasheet for **MG206658**

Cpa1 (NM_025350) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cpa1 (NM_025350) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cpa1
Synonyms:	0910001L12Rik; Cpa
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206658 representing NM_025350 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGAGGCTGCTGGTTCTGAGTGTGCTGCTGGCAGCAGTCTTCGGCAATGAGAACTTTGTGGGCACC
AGGTTCTCCGAATCTCTGCCACCGACGAAGCCAGGTGCAGAAAGTGAGGGAGCTGGAGGAGTTGGAGCA
CTTGAAGTTGGACTTCTGGCGGGACCCTGCCCGGCTGGTCTCCCATCGATGTTTCGAGTGCCCTCCCC
ACCATCCAGTCCGTGAAAGCATTCTTGAATATCATGATATTAGCTATGAGATCATGATCGAAGATGTGC
AGTCTCTGCTCGACGAGGAGAAGCAGCAGATGTCCGCCTCCAGGCCAGGGCTCTGTCCACCGATGCTTT
CAATTATGCCACCTACCATACTCTGGATGAGATCTATGAATTCATGGACCTGCTGGTTACAGAGCACCCA
CAGCTTGTAAAGCAAGATCCAGATCGGCAGCACCTTTGAAGGTCGTCCCATCAATGTGCTGAAGTTCAGCA
CTGGAGGGACCAATCGCCAGCAATCTGGATTGACACTGGCATCCATTCCAGGGAGTGGGTCACTCAGGC
CAGTGGGGTCTGGTTTGCAAAAAGATCACGAAGGACTATGGCCAGGAACCCACCCTCACGGCCATTCTT
GACAACATGGACATCTTCTGGAGATTGAACTAACCCCTGATGGTTTTGTCTACACCCACAAAACGAATC
GCATGTGGCGCAAACTCGATCACACACCGAGGGCTCCCTCTGCGTCGGGGTGGACCCCAACAGGAACTG
GGATGCTGCCTTTGGGATGCCCGGAGCTAGTAGCAACCCCTGCTCAGAACTTACCGTGGCAAGTTTCCC
AACTCTGAAGTGGAGGTCAAGTCCATCGTGGACTTTGTGACGACCACGGGAACATCAAGGCCTTCATCT
CCATCCACAGCTACTCCAGCTCCTTCTTACCCCTATGGCTACACATCAGAACCAGCTCCTGACAAGGA
GGAGCTGGATCAGCTAGCAAAATCTGCTGTGACAGCCTTGACATCTTACACGGGACCAAGTTCAAGTAT
GGCAGTATCATTGATACGATCTATCAAGCCAGTGGGAGCACTATTGACTGGACCTACAGCCAGGGCATCA
AGTATTCTTCACTTTTGGAGCTGAGGGACACTGGGCTCAGAGTTTCTGCTGCCTGCCCTCCAGATCAT
CCCCACAGCGGAGGAGACATGGCTGGCCCTTTTGACCATCATGGACCACACTGTCAAACACCCTAC

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206658 representing NM_025350
 Red=Cloning site Green=Tags(s)

MKRLLVLSVLLAAVFGNENFVGHQVLRISATDEAQVQKVRELEELHLKLDWFWRDPARAGLPIDVRVFPF
 TIQSVKAFLEYHDISYEIMIEDVQSLLEEKQQMSAFQARALSTDAFNATYHTLDEIYEFMDLLVTEHP
 QLVSKIQIGSTFEGRPINVLKFKSTGGTNRPAIWIDTGIHSREWVTQASGVWFAKKITKDYQGQEPTLTAIL
 DNMDIFLEIVTNPDPGFVYTHKTNRMWRKTRSHTEGSLCVGVDPNRNWDAAFGMPGASSNPCSETYRGKFP
 NSEVEVKSIIVDFVTSHGNIKAFISIHYSQQLLYPYGYTSEPAPDKEELDQLAKSAVTALTSLHGTFKFP
 GSIIDTIYQASGSTIDWTYSQGIKYSFTFELRDTGLRGFLLPASQIIPAEETWLLALLTMDHTVKHPY

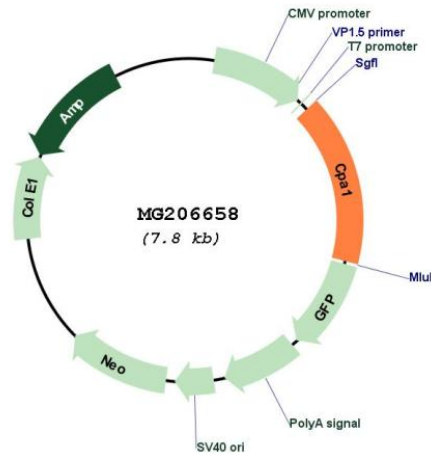
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_025350

ORF Size:	1257 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:	<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_025350.4
RefSeq Size:	1578 bp
RefSeq ORF:	1260 bp
Locus ID:	109697
UniProt ID:	Q7TPZ8
Cytogenetics:	6 12.52 cM
Gene Summary:	This gene encodes carboxypeptidase A, a zinc-dependent metalloprotease that cleaves peptide bonds at the C-terminus of protein substrates. The encoded preproprotein undergoes proteolytic activation to generate a mature, functional enzyme. This gene is expressed in pancreas, the encoded protein is a major component of digestive enzymes secreted by pancreas and plays an important role in the process of digestion. This gene is located in a cluster of related carboxypeptidase genes on chromosome 6. [provided by RefSeq, Jan 2016]