

Product datasheet for **RG224582**

Carboxypeptidase M (CPM) (NM_001874) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Carboxypeptidase M (CPM) (NM_001874) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Carboxypeptidase M
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG224582 representing NM_001874 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACTTCCCGTGCCTCTGGCTAGGGCTGTTGCTGCCTTTGGTAGCTGCGCTGGATTTCAACTACCACC
GCCAGGAAGGGATGGAAGCGTTTTTGAAGACTGTTGCCAAAACACTACAGTTCTGTCACTCACTTACACAG
TATTGGGAAATCTGTGAAAGGTAGAAACCTGTGGGTTCTGTTGTGGGGCGGTTTCCAAAGGAACACAGA
ATTGGGATTCAGAGTTCAAATACGTGGCAAATATGCATGGAGATGAGACTGTTGGGCGGGAGCTGCTGC
TCCATCTGATTGACTATCTCGTAACCACTGATGGCAAAGACCCTGAAATCACAATCTGATCAATAGTAC
CCGGATACACATCATGCCTTCCATGAACCCAGATGGATTTGAAGCCGTCAAAAAGCCTGACTGTTATTAC
AGCATCGAAGGGAAAATTATAACCACTGATGACTTGAATCGAAATTTCCCGATGCTTTTGAATATAATA
ATGTCTCAAGGCAGCCTGAAACTGTGGCAGTCATGAAGTGGCTGAAAACAGAGACGTTTGTCTCTCTGC
AAACCTCCATGGTGGTGCCTCGTGGCCAGTTACCCATTTGATAATGGTGTTCAGCAACTGGGGCATT
TACTCCCGAAGCTTAACGCCTGATGATGATGTTTTTCAATATCTGCACATACCTATGCTTCAAGAAATC
CCAACATGAAGAAAGGAGACGAGTGTAAAAACAAAATGAACTTTCCTAATGGTGTACAAATGGATACTC
TTGGTATCCACTCCAAGGTGGAATGCAAGATTACAACACTACATCTGGGCCAGTGTTTTGAATTACGTTG
GAGCTGTCATGCTGTAATATCCTCGTGGAGAGAAGCTTCCATCCTTTTGAATAATAACAAAGCCTCAT
TAATTGAATATATAAGCAGGTGCACCTAGGTGTAAAGGGTCAAGTTTTTATGATCAGAATGGAATCCATT
ACCCAATGTAATTGTGGAAGTCCAAGACAGAAAACATATCTGCCCTATAGAACCAACAAATATGGAGAG
TATTATCTCCTTCTTGCCTGGGTCTTATATAATAAATGTTACAGTCCCTGGACATGATCCACACATCA
CAAAGGTGATTATTCCGGAGAAAATCCAGAACTCAGTGTCTTAAAAAGGATATTCTACTTCCATTCCA
AGGGCAATTGGATTCTATCCCAGTATCAAATCCTTCATGCCCAATGATTCTCTATACAGAAATTTGCCA
GACCACTAGCTGCAACAAAGCCTAGTTTGTCTTATTTTTAGTGAGTCTTTTGCACATATTTCTTCAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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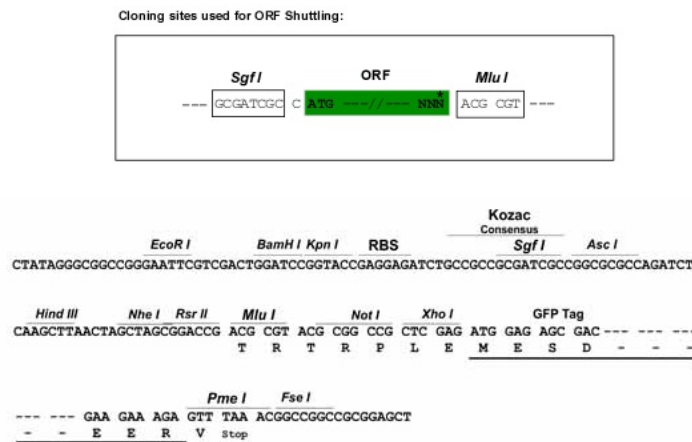
Protein Sequence: >RG224582 representing NM_001874
Red=Cloning site Green=Tags(s)

MDFPCLWLGLLLPLVAALDFNYHRQEGMEAF LKTVAQNYSSVTHLHSIGKSVKGRNLWLVVGRFPKEHR
 IGIPEFKYVANMHGDETVGRELLHLIDYLVTS DGKDPEITNLINSTRIHIMP SMNPDGFEAVKKPDCYY
 SIGREYNQYDLNRNFPDAFEYNNVSRQPETVAVMKW LKTET FVLSANLHGGALVASYPF DNGVQATGAL
 YSRSLTPDDDFVQYLAHTYASRNPNMKKGDECKNK MNFPNGVTNGYSWYPLQGGMQDYNIWAQCFEITL
 ELSCCKYPREEKLPSFWNNNKASLIEYIKQVHLGVKQVFDQNGNPLPNVIVEVQDRKHI CPYRTNKYGE
 YLLLLPGSYIINVTVP GHDPHITKVI IPEKSNF SALKKDILLPFQGLD SIPVSNPSCPMIPL YRNL P
 DHSAA TKPSLFLFLVSL LHIFFK

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001874

ORF Size: 1329 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_001874.4](#)

RefSeq Size: 6683 bp

RefSeq ORF: 1332 bp

Locus ID: 1368

UniProt ID: [P14384](#)

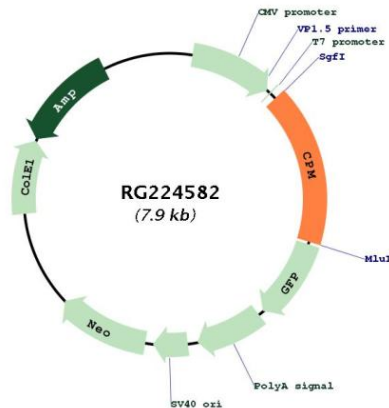
Cytogenetics: 12q15

Domains: Zn_carbOpept

Protein Families: Druggable Genome, Protease

Gene Summary: The protein encoded by this gene is a membrane-bound arginine/lysine carboxypeptidase. Its expression is associated with monocyte to macrophage differentiation. This encoded protein contains hydrophobic regions at the amino and carboxy termini and has 6 potential asparagine-linked glycosylation sites. The active site residues of carboxypeptidases A and B are conserved in this protein. Three alternatively spliced transcript variants encoding the same protein have been described for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG224582