OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RG219355

Carboxypeptidase M (CPM) (NM_198320) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Carboxypeptidase M (CPM) (NM_198320) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CPM
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG219355 representing NM_198320
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGACTTCCCGTGCCTCTGGCTAGGGCTGTTGCTGCCTTTGGTAGCTGCGCTGGATTTCAACTACCACC
GCCAGGAAGGGATGGAAGCGTTTTTGAAGACTGTTGCCCAAAACTACAGTTCTGTCACTCACTTACACAG
TATTGGGAAATCTGTGAAAGGTAGAAACCTGTGGGTTCTTGTTGTGGGGCGGTTTCCAAAGGAACACAGA
ATTGGGATTCCAGAGTTCAAATACGTGGCAAATATGCATGGAGATGAGACTGTTGGGCGGGAGCTGCTGC
TCCATCTGATTGACTATCTCGTAACCAGTGATGGCAAAGACCCTGAAATCACAAATCTGATCAATAGTAC
CCGGATACACATCATGCCTTCCATGAACCCAGATGGATTTGAAGCCGTCAAAAAGCCTGACTGTTATTAC
AGCATCGGAAGGGAAAATTATAACCAGTATGACTTGAATCGAAATTTCCCCGATGCTTTTGAATATAATA
ATGTCTCAAGGCAGCCTGAAACTGTGGCAGTCATGAAGTGGCTGAAAACAGAGACGTTTGTCCTCTCTGC
AAACCTCCATGGTGGTGCCCTCGTGGCCAGTTACCCATTTGATAATGGTGTTCAAGCAACTGGGGCATTA
TACTCCCGAAGCTTAACGCCTGATGATGATGTTTTTCAATATCTTGCACATACCTATGCTTCAAGAAATC
CCAACATGAAGAAAGGAGACGAGTGTAAAAACAAAATGAACTTTCCTAATGGTGTTACAAATGGATACTC
TTGGTATCCACTCCAAGGTGGAATGCAAGATTACAACTACATCTGGGCCCAGTGTTTTGAAATTACGTTG
GAGCTGTCATGCTGTAAATATCCTCGTGAGGAGAAGCTTCCATCCTTTTGGAATAATAACAAAGCCTCAT
TAATTGAATATATAAAGCAGGTGCACCTAGGTGTAAAGGGTCAAGTTTTTGATCAGAATGGAAATCCATT
ACCCAATGTAATTGTGGAAGTCCAAGACAGAAAACATATCTGCCCCTATAGAACCAACAAATATGGAGAG
TATTATCTCCTTCTCTTGCCTGGGTCTTATATAATAAATGTTACAGTCCCTGGACATGATCCACACATCA
CAAAGGTGATTATTCCGGAGAAATCCCAGAACTTCAGTGCTCTTAAAAAGGATATTCTACTTCCATTCCA
AGGGCAATTGGATTCTATCCCAGTATCAAATCCTTCATGCCCAATGATTCCTCTATACAGAAATTTGCCA
GACCACTCAGCTGCAACAAAGCCTAGTTTGTTCTTATTTTTAGTGAGTCTTTTGCACATATTCTTCAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

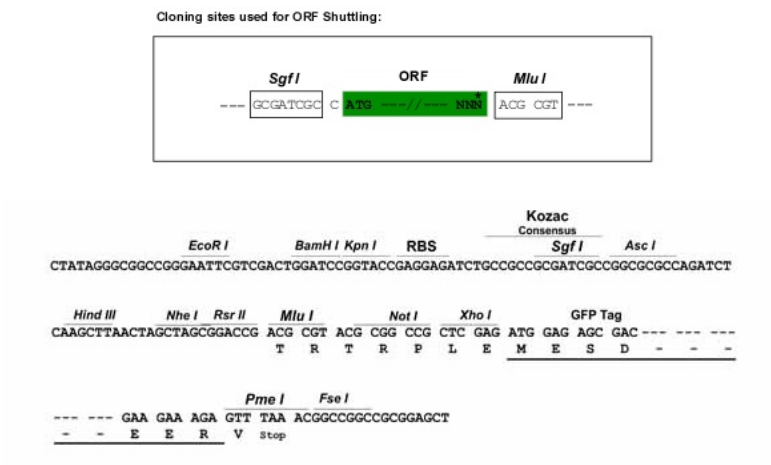
>RG219355 representing NM_198320
Red=Cloning site Green=Tags(s)

MDFPCLWLGLLLPLVAALDFNYHRQEGMEAFLKTVAQNYSSVTHLHSIGKSVKGRNLWVLVVGRFPKEHR
IGIPEFKYVANMHGDETVGRELLLHLIDYLVTSDGKDPEITNLINSTRIHIMPSMNPDGFEAVKKPDCYY
SIGRENYNQYDLNRNFPDAFEYNNVSRQPETVAVMKWLKTETFVLSANLHGGALVASYPFDNGVQATGAL
YSRSLTPDDDVFQYLAHTYASRNPNMKKGDECKNKMNFPNGVTNGYSWYPLQGGMQDYNYIWAQCFEITL
ELSCCKYPREEKLPSFWNNNKASLIEYIKQVHLGVKGQVFDQNGNPLPNVIVEVQDRKHICPYRTNKYGE
YYLLLLPGSYIINVTVPGHDPHITKVIIPEKSQNFSALKKDILLPFQGQLDSIPVSNPSCPMIPLYRNLP
DHSAATKPSLFLFLVSLLHIFFK

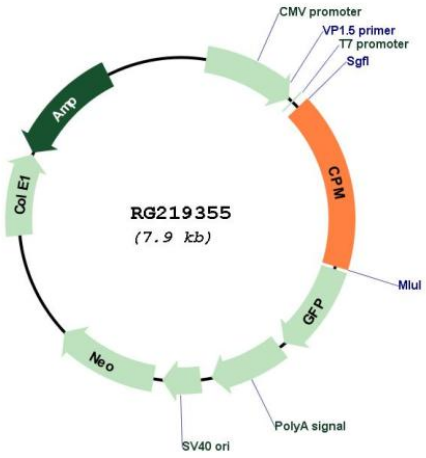
TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



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ACCN:	NM_198320
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_198320.5
RefSeq Size:	6669 bp
RefSeq ORF:	1332 bp
Locus ID:	1368
UniProt ID:	P14384
Cytogenetics:	12q15
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]

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