

Product datasheet for **SC127763**

Carboxypeptidase M (CPM) (NM_001874) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Carboxypeptidase M (CPM) (NM_001874) Human Untagged Clone
Tag:	Tag Free
Symbol:	Carboxypeptidase M
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC127763 sequence for NM_001874 edited (data generated by NextGen Sequencing)

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ATGGACTTCCCGTGCCTCTGGCTAGGGCTGTTGCTGCCTTTGGTAGCTGCGCTGGATTC
AACTACCACCGCCAGGAAGGGATGGAAGCGTTTTTGAAGACTGTTGCCAAAACACTACAGT
TCTGTCACTCACTTACACAGTATTGGGAAATCTGTGAAAGGTAGAAACCTGTGGGTTCTT
GTTGTGGGGCGGTTTCCAAGGAACACAGAATTGGGATTCCAGAGTTCAAATACGTGGCA
AATATGCATGGAGATGAGACTGTTGGGCGGGAGCTGCTGCTCCATCTGATTGACTATCTC
GTAACCAAGTATGGCAAAGACCCGAAATCACAAATCTGATCAATAGTACCCGGATACAC
ATCATGCCTTCCATGAACCCAGATGGATTTGAAGCCGTCAAAAAGCCTGACTGTTACTAC
AGCATCGGAAGGAAAAATTATAACCAAGTATGACTTGAATCGAAATTTCCCGATGCTTTT
GAATATAATAATGTCTCAAGGCAGCCTGAAACTGTGGCAGTCATGAAGTGGCTGAAAACA
GAGACGTTTTGTCCTCTCTGCAAACCTCCATGGTGGTGCCCTCGTGGCCAGTTACCCATTT
GATAATGGTGTTCAAGCAACTGGGGCATTATACTCCCGAAGCTTAACGCCTGATGATGAT
GTTTTTCAATATCTTGCACATACCTATGCTTCAAGAAATCCCAACATGAAGAAAGGAGAC
GAGTGTA AAAA AAAAAATGAAC TTTCTAATGGTGT TACA AATGGATACTCTTGGTATCCA
CTCCAAGTGGAATGCAAGATTACA ACTACATCTGGGCCAGTGT TTTGAAATTACGTTG
GAGCTGTCATGCTGTA AATATCCTCGTGAGGAGAAGCTTCCATC TTTTGG AATAATAAC
AAAGCCTCATTAATTGAATATATAAAGCAGGTGCACCTAGGTGTA AAGGGTCAAGTTTTT
GATCAG AATGGAATCCATTACCCAATGTAATTGTGGAAGTCCAAGACAGAAAACATATC
TGCCCTATAGAACCAACAAATATGGAGAGTATTATCTCCTTCTCTTGCCTGGGTCTAT
ATAATAAATGTTACAGTCCCTGGACATGATCCACACATCAAAAGGTGATTATCCGGAG
AAATCCCGA AACTTCAGTGTCTTAAAAAGGATATTCTACTTCCATTCCAAGGGCAATTG
GATTCTATCCCAGTATCAAATCCTTCATGCCCAATGATTCCCTCTATACAGAAATTTGCCA
GACCACTAGCTGCAACAAAGCCTAGTTTGTCTTATTTTTAGTGAGTCTTTTGCACATA
TTCTTCAAATAA

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Clone variation with respect to NM_001874.4
417 t=>c;1077 t=>c



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_001874 unedited</p> <p>TACTATAGGGCGGCCGGAATTCGGCACGAGGGCGCGCCTGGGACCTGAACATGGACTTC CCGTGCCTCTGGCTAGGGCTGTTGCTGCCTTTGGTAGCTGCGCTGGATTCAACTACCAC CGCCAGGAAGGGATGGAAGCGTTTTTGAAGACTGTTGCCAAAACACAGTTCTGTCACT CACTTACACAGTATTGGGAAATCTGTGAAAGGTAGAAACCTGTGGGTTCTGTTGTGGGG CGGTTTTCAAAGGAACACAGAATTGGGATTCCAGAGTTCAAATACGTGGCAAATATGCAT GGAGATGAGACTGTTGGGCGGGAGCTGCTGCCATCTGATTGACTATCTCGTAACCACT GATGGCAAAGACCCTGAAATCACAAATCTGATCAATAGTACCCGGATACACATCATGCCT TCCATGAACCCAGATGGATTTGAAGCCGTCAAAAAGCCTGACTGTACTACAGCATCGGA AGGGAAAATTATAACCAGTATGACTTGAATCGAAATTTCCCGATGCTTTTGAATATAAT AATGTCTCAAGGCAGCCTGAAACTGTGGCAGTCATGAAGTGGCTGAAACAGAGACGTTTG TCCTCTCTGCANACTNCATGGTGGTGCCCTCGTGGCCAGTTACCCATTTGATAATGGTGT TCAAGCAACTGGNGCATTATACTCCGAAGCTAACGCCTGATGATGATGTTTTTCAATAT CTGCACATACCTATGCTTCAGAAATCCCCACATGAGAAGGAGACGAGTGTAAAACANATG AACTTTNCTATGGTGTACAATGGATACTCTGGTATCACTCCAGGTGGATGCAGATACACT ACTCTGGCCCATGTTTGAATACCGTACTGCATGCGNAATTCCCTGGAGAGAGCTNCATC TTTGATATACAAGCTATATGAATTAAGCAGGCCCTAGGTAGGGCAGNTTTGTCATGGATA CTACCATGATTGGGAC</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_001874 unedited</p> <p>GAACCGCGGCACGCAATCTAGTGTGCGAGTTTTTTTTTTTTTTTTTTAGTAAAGATGGGGT TTCACCATGTTGGCCAGGCTGGTCTTGAGCTCTGACCTCAAGTGATCCGCCCGCCTTGG CCTCCAAAATGCTGGGATTACAGGCATGAGCCACCATGCCTGGCCAACACCAACCTTTA GTTACTTGCTGAATACACAGGATTAAGGAGGAAGAGAAAGTATCAAGGATGACTCCCAGG TTCTTAGCTTGGTGGTCCAGTAATTGAGAGAGAGAATGCAGCAGGAAGAGCAGCTCTAG GGGGAACAGGATGGGTATCTCCACATGATGGGTTGGAGGTACCTGTGAGTCACATCCAGG TGGATGTGTCCTGTGGGAGTGGGACGCGAGTCTGAAGCTCAAGCAAGAGGCTAGAGTTA CATCTTTGGAGTCATCAGCCTAATGGAGGACTGTGGCATCCAGGTGCCAAAAGCTAGGGA AACGGCTCTGGAGAGAGAGGGGCTTTCTTAATTGACCTGTATGCTTTGAAGCTCTATAGA GACACAATCTTATCCCTCAAGCCTGATTTTCTTGGGCCACTAAGATGTGGTTACATAT TTTCTCTCACTTCTCCTAGAACGTTTGCAAAACAATTCCCAGTCTATGATCATTTTCTC CCTTCTTCTGAGAACCTATTATATATGGCACTTAATTTCTATTCCCATGTAACACTCATG GAGAGGGGGTCTTTTTCGTTGGTAGGTCTTGGTTTTTTTTTTTGAACAACAACTAACCT TCTGGCCAATCCGGAACCAAGGCACTATCTCGGCTTACCGAAAACCCGCTTTAAGGTT AAGCCATTCTCCGTTTTATCCCCATAAGGCGCGAATTCAAGTGCTGCACTAACCCGG TAATTTCAAAAAACAGGGCTCCACTTGTGCTCTCTCGTCTAATCCCTGACCATGGTCA CACCCCTTACCTCCAATATCTATCAACTGGTAACTCCCTTCT</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_001874
Insert Size:	2800 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_001874.3](#), [NP_001865.1](#)

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]
Transcript Variant: This variant (1) differs in the 5' UTR compared to variants 2 and 3. All three variants encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no quality transcript was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.