

Product datasheet for **SC125589**

Carboxypeptidase Z (CPZ) (NM_003652) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Carboxypeptidase Z (CPZ) (NM_003652) Human Untagged Clone
Tag:	Tag Free
Symbol:	Carboxypeptidase Z
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >OriGene ORF within SC125589 sequence for NM_003652 edited (data generated by NextGen Sequencing)

```

ATGCCGCCCGCCGCGCTGCTGCTCCTTACAGTCTGGTCTGTCGCCGCTGCCCGGCCG
GGGTGCGAGTTTGTAGCGGAACCCCGCCGACCTGCGTGGACCTGCAGCTCAGGACCTGC
AGCGATGCCGCCTACAACCACACCACCTTCCCCAACCTGCTTACAGCACCGGTCTGGGAG
GTGGTGGAGGCCAGCTCCGAGTACATCTGCTGAGCGTTCTACACCAGCTCCTGGAAGGC
CAGTGCAACCCCGACCTGCGGCTGCTGGGCTGTGCTGTGCTGGCCCCCGGTGTGAGGGC
GGCTGGGTGCGCAGACCCTGCCGGCACATCTGCGAGGGCCTGCGGGAGGTCTGCCAGCCC
GCCTTCGACGCCATTGACATGGCYTGGCCCTACTTCCTTGACTGCCACCGCTACTTCACG
AGAGAGGACGAGGGCTGCTATGACCCGCTGGAGAAGCTTCGGGGAGGCCTGGAGGCTGAC
GAGGCACTGCCCTCAGGGCTGCCGCCACCTTCATCCGCTTACAGCCACCACTCCTACGCC
CAGATGGTGCCTGTGCTGAGGCGGACGGCCTCCCGCTGTGCCACGTGGCCAGGACCTAC
AGCATCGGGCGCAGCTTCGACGGCAGGGAGCTGCTGGTATCGAGTTCTCCAGCCGCCCC
GGCCAGCAGGAGCTGATGGAGCCGAGGTGAAGCTCATCGGCAACATTTCATGGCAACGAG
GTGGCGGGCCGGGAGATGCTCATCTACCTAGCCAGTACCTGTGCTCTGAGTACCTGCTT
GGTAACCCCGCATCCAGCGCCTGCTCAACACCACCCGCATCCACTGCTGCCCTCCATG
AACCTGACGGCTATGAGGTGGCAGCTGCCGAGGGTGGCCGCTACAACGGGTGGACGAGC
GGGAGGCAGAACGCGCAGAACCTGGATCTGAACCGAAATTTCCGGACCTGACGTCGAG
TACTACCGGTGGCGGAGACCCGCGGCACGCAGCGACCACATCCCCATCCCCAGCAC
TACTGGTGGGTAAGGTGGCCCCGAGACAAAGCAATCATGAAGTGGATGCAGACCATA
CCCTTTGTGCTCTCAGCCAGCCTTCATGGGGCGACCTGGTGGTGTCTACCCCTTCGAC
AAGTGTGTGCCAGGCCTACGCTGATGTCCACCCCATGATGATGGACAGGTCCGAGAAAT
AGGTGTGGAGGCAATTTCTGAAGAGGGGAGCATCATCAACGGGGCAGACTGGTACAGC
TTCACGGGAGGCATGTCCGACTTCAACTACCTGCACACCAACTGCTTTGAGATCACGGTA
GAGCTGGGCTGTGTAAGTTCCCGCCGAGGAGGCCCTGTACACACTCTGGCAGCACAAC
AAGGAGTCACTCCTGAATTTCTGTGGAGACGGTGCACCGGGGCATCAAAGGTGTGGTGACA
GATAAATTCGGCAAGCCAGTCAAAAACGCCCGGATCTCAGTCAAAGGCATTGCCACGAC
ATCACCACAGCCCAGATGGTACTACTGGAGACTGCTGCCCCAGGTATCCACATTGTC
ATTGCCAAGCCCTGGTACGCCAAAGTCATCAAGAAAGTCATCATCCCCGCCCGGATG
AAGAGGGCTGGCCGTGTGGACTTCAATTGCAACCTCTGGGGATGGGACCCAAGAATTT
ATTCATGGGCTGCGGAGACTGGCCCCACGACCCGCTGGGAGGTGCCAGCTCTTTGGGG
GAGGCCACGGAGCCCAGCCGCTCCGGGCGCGCAGGCAGCCCTCGGCCGACGGGAGTAAG
CCCTGGTGGTGGTCTACTTCACATCGCTGAGCACCCACAGGCCAGCTGGCTGCTCAAG
TACTAG

```

Clone variation with respect to NM_003652.3
 384 c=>y;579 c=>t;1227 c=>t;1308 g=>a;1341 t=>c

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_003652 unedited</p> <pre>TCGGCATTGTAATACGACTTACTATAGGGCGGCACGCGATTTCGGCACCAGGCCGCCCC ACCATGCCGCCCCCGCCGCGCTGCTGCTCCTTACAGTCTGGTCGTCGCCGCTGCCCGG CCGGGTGCGAGTTTGAGCGGAACCCCGCCACCTGCGTGGACCTGCAGCTCATGACC TGCAGCGATGCCGCTACAACCACACCACCTTCCCAACCTGCTTCATCACCGGTGCTGG GATGTGGTGGAGGCCATCTCCGAGTACATCCTGCTGAGCGTTCTACACCAGCTCCTGGAA GGCCAGTGAACCCGGACCTGCGGCTGCTGGGCTGTGCTGTGCTGGCCCCCGGTGTGAT GGCGGCTGGGTGCGCATACCCTGCCGGCACATCTGCGATGGCCTGCGGGATGTCTGCCAG CCCGCCTTCGACGCCATTGACATGGCCTGGCCCTACTTCCTTGACTGCCACCGCTACTTC ACGAGATATGACGATGGCTGCTATGACCCGCTGGAGAATCTTCGGAGATGCCTGNATGCT GACGATGCACTGCCCTCATGGCTGCCGCCACCTTCATTGCTTCATCCACCCTTCTAC GCCCATATGGTGCCTGTGCTGATGCAGACAGGCTNCCGCTGTGCCACGTGGCCATGAAT CTACAGCATCGGGCGCATCTTCAACGGCAAGGAGCTGCTGGTCATCGAGTTCTTCAGCCC GCCCGNCATCAGATCTGATGGAGCCGATGTGAATNCTCATNGCCATCATTATGCGC AATCGATGTGGGCGGGCGCGGAGATGCTCANTCTACCTATCCCATAACCTGGTGCTT CTGAGGTACCTGGCTTGGGTATCCCCCGATTTCATANGGCTGGCTAAAAATCCACCCGAA TTCACCTGGCTGGCCCTCCATGAAACCCCTGACGGCTTTTAAGGTGGCANCTGCCCGAGG TGGCCGGCTACAACCGGTGGAACAAACCGGAGAGCCAACGCCAATAACTGGGATTGGAC CCTATTCTCCGGAAGTAC</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_003652 unedited</p> <pre>TCCGGCCAGGAGAGGCACTGGGGAGGGTCCACAGGGATGCCACCCGGGATCTGTTCCAGG AAACAGCTATGACCGCGCGCAATCTAGAGTTCGAGTTTTTTTTTTTTTTTTTCCAGTG GAAAGTGGATCAAAACACTTTAATAAAATGGCAGCGGCTTTGTGGGATGTCTGTGGCAGA CAAAATCAAGAGCCAGGAGCCCGGGATGCGGAGATGGGCTCGGTCTCCACATCCTGGCG GGTGTGGGGCCGGGCTAGTACTTGAGCAGCCAGCGTGGCCTGTGGGTGCTCAGCGATG TGAAGTAGGACCACCACAGGGCTTACTCCCGTCCGGCCGAGGGCTGCCTGCGCGCCCGGA GCGGGTCCGGCTCCGTGGCTCCCCAAAGAGCTGGCACCTCCCAGCGGGTCTGGGGCC CAGTCCCTCCGAGCCCATGAATAAAGTTCTTGGTCCCATCCCCAGAGTTGCAGAATGA AGTCCACACGGCCAGCCCTTTCATCCGGCGGGGATGATGACTTCTTGATGACTTTGG CGTAGCCAGGGGCTTGGCAATGACAATGTGGATACCTGGGGGAGCAGTCTCCAGTAGT CACCATCTGGGGCTGTGGTGTGCTGCGTGGCAATGCCTTTGACTGAGATCCGGGCTTTT TGACTGGCTTGCAGAAATTTATCTGTCCACACCTTTGATGCCCGGTGCACCGTCTCCA CGAAATTCAGGAGTGACTCCTTGTGTGCTGCN</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_003652
Insert Size:	2300 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:	<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_003652.2 , NP_003643.2
RefSeq Size:	2196 bp
RefSeq ORF:	1926 bp
Locus ID:	8532
UniProt ID:	Q66K79
Cytogenetics:	4p16.1
Domains:	FRI, Zn_carbOpept
Protein Families:	Druggable Genome, Protease, Secreted Protein
Gene Summary:	<p>This gene encodes a member of the metallo-carboxypeptidase family. This enzyme displays carboxypeptidase activity towards substrates with basic C-terminal residues. It is most active at neutral pH and is inhibited by active site-directed inhibitors of metallo-carboxypeptidases. Alternative splicing in the coding region results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (2) lacks an alternate in-frame exon, compared to variant 1, resulting in a shorter protein (isoform 2) that has a shorter N-terminus, compared to isoform 1.</p>