

Product datasheet for **SC319814**

Carboxypeptidase Z (CPZ) (NM_001014448) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Carboxypeptidase Z (CPZ) (NM_001014448) Human Untagged Clone
Tag:	Tag Free
Symbol:	Carboxypeptidase Z
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_001014448.1
 GCGCCCTCCCTGCGCCGGGGGCGGGAGCCAGCGAGCGCAGAGCCCCGGCCCCGCGCGGC
 CCGAGTGCCACATCACTGCGCTGGCCGTCCAAGGTCCGCCGCCACCACATGCCGCCCCCG
 CCGCCGTGCTGCTCCTTACAGTCTGGTCTGTCGCGCTGCCGGCCGGGGTGCGAGTTT
 GAGCGAAACCCCGCCGGTGAATGCCACAGGCCACCAGCTGCAGACAGCGCCACCTGCGTG
 GACCTGCAGCTCAGGACCTGCAGCGATGCCGCCTACAACCACACCACCTTCCCAACCTG
 CTTCAGCACCCGGTCTGGGAGGTGGTGGAGGCCAGCTCCGAGTACATCCTGCTGAGCGTT
 CTACACCAGTCTCTGGAAGGCCAGTGCAACCCGGACCTGCGGCTGCTGGGCTGTGCTGTG
 CTGGCCCCCGGTGTGAGGGCGGCTGGGTGCGCAGACCCTGCCGGCACATCTGCGAGGGC
 CTGCGGGAGGTCTGCCAGCCGCCTTCGACGCCATTGACATGGCCTGGCCCTACTTCCTT
 GACTGCCACCGCTACTTCACGAGAGAGGACGAGGGCTGCTATGACCCGCTGGAGAAGCTT
 CGGGGAGGCTGGAGGCTGACGAGGCACTGCCCTCAGGGTCCCGCCACCTTCATCCGC
 TTCAGCCACCACTCTACGCCAGATGGTGCCTGTGCTGAGGGCGACGGCCTCCCGTGC
 GCCACGTGGCCAGGACCTACAGCATCGGGCGCAGCTTCGACGGCAGGGAGCTGCTGGTC
 ATCGAGTTCTCCAGCCGCCCGGCCAGCAGAGCTGATGGAGCCGAGGTGAAGCTCATC
 GGCAACATTCATGGCAACGAGGTGGCGGGCCGGAGATGCTCATCTACCTAGCCAGTAC
 CTGTGCTCTGAGTACCTGCTTGGTAACCCCGCATCCAGCGCCTGCTCAACACCACCCGC
 ATCCACCTGCTGCCCTCCATGAACCCTGACGGCTATGAGGTGGCAGCTGCCGAGGGTGCC
 GGCTACAACGGGTGGACGAGCGGGAGGCAGAACCGCGCAGAACCTGGATCTGAACCGAAAT
 TTCCCGGACCTGACGTCCGAGTACTACCGGCTGGCGGAGACCCCGGGCGCACGCAGCGAC
 CACATCCCCATCCCCAGCACTACTGGTGGGTAAAGTGGCCCGGAGACAAAGGCAATC
 ATGAAGTGGATGCAGACCATAACCTTTGTGCTCTCAGCCAGCCTTCATGGGGGCGACCTG
 GTGGTGTCTACCCCTTCGACTTCTCAAGCACCCCGAGGAGGAGAAGATGTTTTCTCC
 ACGCCCCGACGAGAAGATGTTCAAGCTGCTGTCCAGAGCCTACGCTGACGTCCACCCCATG
 ATGATGGACAGGTGCGAGAATAGGTGTGGAGGCAATTTCTGAAGAGGGGAGCATCATC
 AACGGGGCGGACTGGTACAGCTTACGGGAGGCATGTCCGACTTCAACTACCTGCACACC
 AACTGCTTTGAGATCACGGTAGAGCTGGGCTGTGTGAAGTTCACCCCGAGGAGGCCCTG
 TACACACTCTGGCAGCACAACAAGGAGTCACTCCTGAATTTCTGGAGACGGTGCACCGG
 GGCATCAAAGGTGTGGTACAGATAAATTCGGCAAGCCAGTCAAAAACGCCCGGATCTCA
 GTCAAAGGCATTGCCACGACATCACCACAGCCCAGATGGTACTACTGGAGACTGCTG
 CCCCCAGGTATCCACATTGTCTATTGCCAAGCCCTGGCTACGCCAAAGTCATCAAGAAA
 GTCATCATCCCCCGGATGAAGAGGGCTGGCCGTGTGACTTATTCTGCAACCTCTG
 GGGATGGGACCCAAGAATTTATTCATGGGCTGCGGAGGACTGGGCCCCACGACCCGCTG
 GGAGGTGCCAGCTCTTTGGGGGAGGCCACGGAGCCCGACCCGCTCCGGGCGCGCAGGCAG
 CCCTCGGCGGACGGGAGTAAGCCCTGGTGGTGGTCTACTTCACATCGCTGAGCACCCAC
 AGGCCACGCTGGCTGCTCAAGTACTAGCCCCGGCCCCAGCACCCGCCAGGATGTGGAGAC
 CGAGGCCCGTCTCCGCATCCCGGGCTCTGGCTCTTGAATTTGTCTGCCACAGACATCCC
 ACAAGCCGCTGCCATTTTATTAAGTGTTTTGTATCCACTTAAAAAAAAAAAAAAAAAAAA
 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_001014448

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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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:	<u>NM_001014448.1</u> , <u>NP_001014448.1</u>
RefSeq Size:	2492 bp
RefSeq ORF:	1548 bp
Locus ID:	8532
UniProt ID:	<u>Q66K79</u>
Cytogenetics:	4p16.1
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 (3) uses two different splice sites, which results in translation initiation at a downstream start codon, compared to variant 1. The resulting protein (isoform 3) is shorter and has a shorter N-terminus compared to isoform 1.</p>