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 SC125559

Carboxypeptidase A (CPA1) (NM_001868) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Carboxypeptidase A (CPA1) (NM_001868) Human Untagged Clone
Tag:	Tag Free
Symbol:	Carboxypeptidase A
Synonyms:	CPA
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC125559 sequence for NM_001868 edited (data generated by NextGen Sequencing)

ATGCGGGGGTTGCTGGTGTTGAGTGTCCTGTTGGGGGCTGTCTTTGGCAAGGAGGACTTT
GTGGGGCATCAGGTGCTCCGAATCTCTGTAGCCGATGAGGCCCAGGTACAGAAGGTGAAG
GAGCTGGAGGACCTGGAGCACCTGCAGCTGGACTTCTGGCGGGGCCCTGCCCACCCTGGC
TCCCCCATCGACGTCCGAGTGCCCTTCCCCAGCATCCAGGCGGTCAAGATCTTTCTGGAG
TCCCACGGCATCAGCTATGAGACCATGATCGAGGACGTGCAGTCGCTGCTGGACGAGGAG
CAGGAGCAGATGTTCGCCTTCCGGTCCCGGGCGCGCTCCACCGACACTTTTAACTACGCC
ACCTACCACACCCTGGAGGAGATCTATGACTTCCTGGACCTGCTGGTGGCGGAGAACCCG
CACCTTGTCAGCAAGATCCAGATTGGCAACACCTATGAAGGGCGTCCCATTTACGTGCTG
AAGTTCAGCACGGGGGGCAGTAAGCGTCCAGCCATCTGGATCGACACGGGCATCCATTCC
CGGGAGTGGGTCACCCAGGCCAGTGGGGTCTGGTTTGCAAAGAAGATCACTCAAGACTAC
GGGCAGGATGCAGCTTTCACCGCCATTCTCGACACCTTGGACATCTTCCTGGAGATCGTC
ACCAACCCTGATGGCTTTGCCTTCACGCACAGCACGAATCGCATGTGGCGCAAGACTCGG
TCCCACACAGCAGGCTCCCTCTGTATTGGCGTGGACCCCAACAGGAACTGGGACGCTGGC
TTTGGGTTGTCCGGAGCCAGCAGTAACCCCTGCTCGGAGACTTACCGCGGCAAGTTTGCC
AATTCCGAAGTGGAGGTCAAGTCCATTGTAGACTTTGTGAAGGACCATGGGAACATCAAG
GCCTTCATCTCCATCCACAGCTACTCCCAGCTCCTCATGTATCCCTATGGCTACAAAACA
GAACCAGTCCCTGACCAGGATGAGCTGGATCAGCTTTCCAAGGCTGCTGTGACAGCCCTG
GCCTCTCTCTACGGGACCAAGTTCAACTATGGCAGCATCATCAAGGCAATTTATCAAGCC
AGTGGAAGCACTATTGACTGGACCTACAGCCAGGGCATCAAGTACTCCTTCACCTTCGAG
CTCCGGGACACTGGGCGCTATGGCTTCCTGCTGCCAGCCTCCCAGATCATCCCCACAGCC
AAGGAGACGTGGCTGGCGCTTCTGACCATCATGGAGCACACCCTGAATCACCCCTACTGA

Clone variation with respect to NM_001868.2
165 g=>c;827 a=>g

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001868 unedited
GATTTTGTAATACGACTCACTATAGGGCGGCCGCGAATTCGGCCATTACGGCCGGGGGAC
CTTCCCTCCCGGCAGCAGCATGCGGGGGTTGCTGGTGTTGAGTGTCCTGTTGGGGGCTGT
CTTTGGCAAGGAGGACTTTGTGGGGCATCAGGTGCTCCGAATCTCTGTAGCCGATGAGGC
CCAGGTACAGAAGGTGAAGGAGCTGGAGGACCTGGAGCACCTGCAGCTGGACTTCTGGCG
GGGCCCTGCCCACCCTGGCTCCCCCATCGACGTCCGAGTGCCCTTCCCCAGCATCCAGGC
GGTCAAGATCTTTCTGGAGTCCCACGGCATCAGCTATGAGACCATGATCGAGGACGTGCA
GTCGCTGCTGGACGAGGAGCAGGAGCAGATGTTCGCCTTCCGGTCCCGGGCGCGCTCCAC
CGACACTTTTAACTACGCCACCTACCACACCCTGGAGGAGATCTATGACTTCCTGGACCT
GCTGGTGGCGGAGAACCCGCACCTTGTCAGCAAGATCCAGATTGGCAACACCTATGAAGG
GCGTCCCATTTACGTGCTGAAGTTCAGCACGGGGGGCAGTAAAGCGTCCAGCCATCTGGA
TCGACACGGGCATCCATTCNCGGGAGTGGGTCACCCCAGGCCAGTGGGGGTCTTGTTTTG
GAAAAGAAGGATCCACTCAAGGACTAACCGGGCAGGGATGGCAAGCTTTTCAACCGGCAT
TTCTTTCGACAACCTTTGGGACCATTCTTTCCCTGGGAAGAA

Restriction Sites: Please inquire

ACCN: NM_001868

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_001868.1, NP_001859.1

RefSeq Size: 1380 bp

RefSeq ORF: 1260 bp

Locus ID: 1357

UniProt ID: P15085

Cytogenetics: 7q32.2

Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Protease, Secreted Protein

Gene Summary: This gene encodes a member of the carboxypeptidase A family of zinc metalloproteases. This enzyme is produced in the pancreas and preferentially cleaves C-terminal branched-chain and aromatic amino acids from dietary proteins. This gene and several family members are present in a gene cluster on chromosome 7. Mutations in this gene may be linked to chronic pancreatitis, while elevated protein levels may be associated with pancreatic cancer. [provided by RefSeq, Jan 2015]