

Product datasheet for **SC125570**

Elastase (CELA3B) (NM_007352) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Elastase (CELA3B) (NM_007352) Human Untagged Clone
Tag:	Tag Free
Symbol:	Elastase
Synonyms:	CBPP; ELA3B
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_007352, the custom clone sequence may differ by one or more nucleotides

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ATGATGCTCCGGTGCTCAGTCCCTCCTTGTGGCCGTTGCCTCAGGCTATGGCCACCTTCCTCTC
GCCCTTCCAGCCGCTTGTCAATGGTGAGGATGCGGTCCCCTACAGCTGGCCCTGGCAGGTTTCCCTGCA
GTATGAGAAAAGCGGAAGCTTCTACCACACCTGTGGCGGTAGCCTCATCGCCCCGACTGGGTTGTGACT
GCCGGCCACTGCATCTCGAGCTCCCGGACCTACCAGGTGGTGTGGGCGAGTACGACCGTGTGGAAGG
AGGGCCCCGAGCAGGTGATCCCCATCAACTCTGGGGACCTCTTTGTGCATCCACTCTGGAACCGCTCGT
TGTGGCCTGTGGCAATGACATCGCCCTCATCAAGCTCTCACGCAGCGCCAGCTGGGAGACGCCCTCCAG
CTCGCCTCACTCCCTCCGGCTGGTGACATCCTTCCCAACGAGACACCCTGCTACATCACCAGCTGGGGCC
GTCTCTATACCAACGGGCCACTCCCAGACAAGCTGCAGGAGGCCCTGCTGCCGGTGGTGGACTATGAACA
CTGCTCCAGGTGGAAGTGGTGGGGTTCCCTCCGTGAAGAAGACCATGGTGTGTGCTGGAGGGGACATCCGC
TCCGGCTGCAATGGTGGTCTGGAGGACCCCTCAACTGCCCCACAGAGGATGGTGGCTGGCAGGTCCATG
GCGTGACCAGCTTTGTTTCTGCCTTTGGCTGCAACACCCGAGGAAGCCACGGTGTTCCTCGAGTCTC
CGCCTTCATTGACTGGATTGAGGAGACCATAGCAAGCCACTAG
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_007352 unedited NNAAGGAGTTCCCGTTTGTAAACGACTCATATAGGCGGCCGCGCAATTCGCCATTACGGC CGGGGGTCCTATCATCGCAAAACTCATGATGCTCCGGCTGCTCAGTTCCCTCCTCTTGT GGCCGTTGCCTCAGGCTATGGCCACCTTCTCTCGCCCTTCCAGCCGCGTTGTCAATGG TGAGGATGCGGTCCCCTACAGCTGGCCCTGGCAGGTTTCCCTGCAGTATGAGAAAAGTGG AAGCTTCTACCACACGTGTGGCGGTAGCCTCATCGCCCCGACTGGGTTGTGACTGCCGG CCACTGCATCTCGAGCTCCTGGACCTACCAGGTGGTGTGGGCGAGTACGACCGTGTGT GAAGGAGGGCCCCGAGCAGGTGATCCCCATCAACTCTGGGGACCTTTTGTGCATCCACT CTGGAACCGCTCGTGTGTGGCCTGTGGCAATGACATCGCCCTCATCAAGCTCTCACGCAG CGCCAGCTGGGAGACGCCGTCCAGCTCGCCTCACTCCCTCCCGCTGGTGACATCCTTCC CAACGAGACACCCTGCTACATCACCGGCTGGGGCCGTCTCTATACCAACGGGCCACTCCC AGACAAGTGCAGGAGGCCCTGTGCCCGTGGTGGACTATGAACACTGCTCCAGGTGGAA CTGGTGGGGTTTCTCCGTGAAGAAACCATGGTGTGTGCTGGAGGGGACATCCGCTCCGGC TGCAACGGTGGACTCTGGAGACCCCTCAGCTGCCCCACAGAGGATGGTGGCTCGGANGTC CCTGGCCTGACACACTATGTTTCTGCCTTGGGCTGCAACAGCCGCAAGAAGCCCCCGGTG TTNACTCGAGTCTCCCGCTTTGTGCGGTGGGGTGGGAGGAAACCATAGCAGGCCCT
Restriction Sites:	Please inquire
ACCN:	NM_007352
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_007352.2 , NP_031378.1
RefSeq Size:	1055 bp
RefSeq ORF:	813 bp
Locus ID:	23436
UniProt ID:	P08861
Cytogenetics:	1p36.12
Protein Families:	Druggable Genome, Protease

Gene Summary:

Elastases form a subfamily of serine proteases that hydrolyze many proteins in addition to elastin. Humans have six elastase genes which encode the structurally similar proteins elastase 1, 2, 2A, 2B, 3A, and 3B. Unlike other elastases, elastase 3B has little elastolytic activity. Like most of the human elastases, elastase 3B is secreted from the pancreas as a zymogen and, like other serine proteases such as trypsin, chymotrypsin and kallikrein, it has a digestive function in the intestine. Elastase 3B preferentially cleaves proteins after alanine residues. Elastase 3B may also function in the intestinal transport and metabolism of cholesterol. Both elastase 3A and elastase 3B have been referred to as protease E and as elastase 1, and excretion of this protein in fecal material is frequently used as a measure of pancreatic function in clinical assays. [provided by RefSeq, May 2009]