

## Product datasheet for **SC126305**

### Elastase (CELA3B) (BC005216) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Elastase (CELA3B) (BC005216) Human Untagged Clone
Tag:	Tag Free
Symbol:	Elastase
Synonyms:	ELA3A; elastase 1; elastase 3B; elastase 3B, pancreatic; OTTHUMP00000002837; protease E
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for BC005216 edited  
 GTCCTATCATCGAAAACTCATGATGCTCCGGCTGCTCAGTTCCTCCTCCTTGTGGCCG  
 TTGCCTCAGGCTATGGCCACCTTCCTCTCGCCCTTCCAGCCGCTTGTCAATGGTGAGG  
 ATGCGGTCCCCTACAGCTGGCCCTGGCAGGTTTCCCTGCAGTATGAGAAAAGTGAAGCT  
 TCTACCACACGTGTGGCGGTAGCCTCATCGCCCCGACTGGGTTGTGACTGCCGGCCACT  
 GCATCTCGAGCTCCTGGACCTACCAGGTGGTGTGGGCGAGTACGACCGTGTGTGAAGG  
 AGGGCCCCGAGCAGGTGATCCCCATCAACTCTGGGGACCTCTTTGTGCATCCACTCTGGA  
 ACCGCTCGTGTGTGGCCTGTGGCAATGACATCGCCCTCATCAAGCTCTCACGCAGCGCCC  
 AGCTGGGAGACGCCGTCCAGCTCGCCTCACTCCCTCCCGCTGGTGACATCCTTCCCAACG  
 AGACACCCTGCTACATCACCGGCTGGGGCCGTCTCTATAACCAACGGGCCACTCCCAGACA  
 AGCTGCAGGAGGCCCTGTGCCCGTGGTGGACTATGAACACTGCTCCAGGTGGAAGTGGT  
 GGGGTTCCCTCCGTGAAGAAGACCATGGTGTGTGCTGGAGGGGACATCCGCTCCGGCTGCA  
 ACGGTGACTCTGGAGGACCCCTCAACTGCCCCACAGAGGATGGTGGCTGGCAGGTCCATG  
 GCGTGACCAGCTTTGTTTCTGCCTTTGGCTGCAACACCCGCAGGAAGCCACGGTGTTC  
 CTCGAGTCTCCGCTTTCATCGACTGGATTGAGGAGACCATAGCAAGCCACTAGAACCAAG  
 GCCCAGCTGGCAGTGCTGATCGATCCCACATCCTGAATAAAGAATAAAGATCTCCCCAAA  
 AAAAAAAAAAAAAAAAAAAAAAAAAAAAA



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for BC005216 unedited NGTCAAAATTTGTATACGACTCATATAGGCGGACCGCAATTCGCCATTACGGCCGGGG TCCTATCATCGCAAAACTCATGATGCTCCGGCTGCTCAGTTCCCTCCTCCTTGTGGCCGT TGCCTCAGGCTATGGCCACCTTCTCTCGCCCTCCAGCCGCTTGTCAATGGTGAGGA TGCGGTCCCCTACAGCTGGCCCTGGCAGGTTTCCCTGCAGTATGAGAAAAGTGGAAGCTT CTACCACAGTGTGGCGGTAGCCTCATCGCCCCGACTGGGTTGTGACTGCCGGCCACTG CATCTCGAGCTCCTGGACCTACCAGGTGGTGTGGGCGAGTACGACCGTGTGTGAAGGA GGCCCCGAGCAGGTGATCCCCATCAACTCTGGGGACCTTTTGTGCATCCACTCTGGAA CCGCTCGTGTGTGGCCTGTGGCAATGACATCGCCCTCATCAAGCTCTCACGCAGGCCCA GCTGGGAGACGCCGTCCAGCTCGCCTCACTCCCTCCCGCTGGTGACATCCTTCCCAACGA GACACCCTGTACATCACCGGTGGGGCGTCTCTATACCAACGGGCCACTCCCAGACAA GCTGCAGGAGGCCCTGTGCCCGTGGTGGACTATGAACACTGCTCCAGGTGGAAGTGGT GGGTTCCTCCGTGAAGAGACCATGGTGTGTGCTGGANGGACATCCGCTCCGGTGAAC GGTGACTCTGGANGACCCCTCACTGCCCCACAGAGGATGGTGGTGGCANGTCCATGGC GTGACCAGCTTTGTTTCTGCCTTTGGCTGCACACCCGAGGAAGCCACGGGTGCTACTC GAGTCTCCGCTCATCGACTGGATTTGAGAGACATAGCNAGCCCTAGAACCAGGGCCAGC TGGCAGTGTGATCGATCCCACATCCCTGATAAGAATAAAAA
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	BC005216
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">BC005216.1</a> , <a href="#">AAH05216.1</a>
<b>RefSeq Size:</b>	926 bp
<b>Locus ID:</b>	23436
<b>Cytogenetics:</b>	1p36.12
<b>Protein Families:</b>	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]