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 SC122726

Elastase 3A (CELA3A) (NM_005747) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Elastase 3A (CELA3A) (NM_005747) Human Untagged Clone
Tag:	Tag Free
Symbol:	Elastase 3A
Synonyms:	ELA3; ELA3A
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_005747 edited AGCCTATCATCACAAAACTCATGATGCTCCGGCTGCTCAGTTCCCTCCTCCTTGTGGCCG TTGCCTCAGGCTATGGCCCACCTTCCTCTCACTCTTCCAGCCGCGTTGTCCATGGTGAGG ATGCGGTCCCCTACAGCTGGCCCTGGCAGGTTTCCCTGCAGTATGAGAAAAGTGGAAGCT TCTACCACACGTGTGGCGGTAGCCTCATCGCCCCCGATTGGGTTGTGACTGCCGGCCACT GCATCTCGAGGGATCTGACCTACCAGGTGGTGTTGGGTGAGTACAACCTTGCTGTGAAGG AGGGCCCCGAGCAGGTGATCCCCATCAACTCTGAGGAGCTGTTTGTGCATCCACTCTGGA ACCGCTCGTGTGTGGCCTGTGGCAATGACATCGCCCTCATCAAGCTCTCACGCAGCGCCC AGCTGGGAGATGCCGTCCAGCTCGCCTCACTCCCTCCCGCTGGTGACATCCTTCCCAACA AGACACCCTGCTACATCACCGGCTGGGGCCGTCTCTATACCAATGGGCCACTCCCAGACA AGCTGCAGCAGGCCCGGCTGCCCGTGGTGGACTATAAGCACTGCTCCAGGTGGAACTGGT GGGGTTCCACCGTGAAGAAAACCATGGTGTGTGCTGGAGGGTACATCCGCTCCGGCTGCA ACGGTGACTCTGGAGGACCCCTCAACTGCCCCACAGAGGATGGTGGCTGGCAGGTCCACG GTGTGACCAGCTTTGTTTCTGGCTTTGGCTGCAACTTCATCTGGAAGCCTACAGTGTTCA CTCGAGTCTCCGCCTTCATCGACTGGATTGAGGAGACCATAGCAAGCCACTAGAACCAAG GCCCAGCTGGCAGTGCTGATCGATCCCACATCCTGAATAAAGAATAAAGATCTCTCAAAA AAAAAAAAAAAAAAAAAAAAAAAAA

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5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_005747 unedited
GGTTTAGTTTTGTATACGACTTATATAGGGCGGCCGCGAATTCGCCATTACGGCCGGGGA
TCATCACAAAACTCATGATGCTCCAGCTGCTCAGTTCCCTCCTCCTTGTGGCCGTTGCCT
CAGGCTATGGCCCACCTTCCTCTCACTCTTCCAGCCGCGTTGTCCATGGTGAGGATGCGG
TCCCCTACAGCTGGCCCTGGCAGGTTTCCCTGCAGTATGAGAAAAGTGGAAGCTTCTACC
ACACGTGTGGCGGTAGCCTCATCGCCCCCGATTGGGTTGTGACTGCCGGCCACTGCATCT
CGAGGGATCTGACCTACCAGGTGGTGTTGGGTGAGTACAACCTTGCTGTGAAGGAGGGCC
CCGAGCAGGTGATCCCCATCAACTCTGAGGAGCTGTTTGTGCATCCACTCTGGAACCGCT
CGTGTGTGGCCTGTGGCAATGACATCGCCCTCATCAAGCTCTCACGCAGCGCCCAGCTGG
GAGATGCCGTCCAGCTCGCCTCACTCCCTCCCGCTGGTGACATCCTTCCCAACAAGACAC
CCTGCTACATCACCGGCTGGGGCCGTCTCTATACCAATGGGCCACTCCCAGACAAGCTGC
AGCAGGCCCGGCTGCCCGTGGTGGACTATAAGCACTGCTCCAGGTGGAACTGGTGGGGTT
CCACCGTGAAGAAAACCATGGTGTGTGCTGGAGGGTACATCCGCTCCGGCTGNCACGGTG
ACTCTGGAGGACCCCTCAACTGCCCCACAGAGGATGGTGGCTGGCAGGTCCACGGTGTGA
CCAGCTTTGTTTCTGCTTTGGCTGCAACTTCATCTGGAAGCCCCGGTGTTCACTCGAGTC
TCCCCTTCATCGACTGGATTGAGGAGACCATAGCAGCCCCTTAAACCAAGCCCAACTGGC
CATGCTGATCCATCCCCATCCTGAAAAC
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Restriction Sites: Please inquire

ACCN: NM_005747

Insert Size: 926 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:
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_005747.3, NP_005738.3

RefSeq Size: 963 bp

RefSeq ORF: 813 bp

Locus ID: 10136

UniProt ID: P09093

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 3A has little elastolytic activity. Like most of the human elastases, elastase 3A 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 3A preferentially cleaves proteins after alanine residues. Elastase 3A 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. [provided by RefSeq, Jul 2008]