

## Product datasheet for **SC123089**

### CELA2A (NM\_033440) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** CELA2A (NM\_033440) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** CELA2A  
**Synonyms:** AOMS4; ELA2A; PE-1  
**Mammalian Cell Selection:** None  
**Vector:** [pCMV6-XL5](#)  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_033440 edited  
 CTTACAGAACTCCCACGGACACACCATGATAAGGACGCTGCTGTCCACTTTGGTGGC  
 TGGAGCCCTCAGTTGTGGGGACCCCACTTACCCACCTTATGTGACTAGGGTGGTTGGCGG  
 TGAAGAAGCGAGGCCCAACAGCTGGCCCTGGCAGGTCTCCCTGCAGTACAGCTCCAATGG  
 CAAGTGGTACCACACCTGCGGAGGGTCCCTGATAGCCAACAGCTGGGTCCTGACGGCTGC  
 CCACTGCATCAGCTCCTCCAGGACCTACCGCGTGGGGCTGGGCCGGCACAACCTTACGT  
 TGCGGAGTCCGGCTCGCTGGCAGTCAGTGTCTCTAAGATTGTGGTGCACAAGGACTGGAA  
 CTCCAACCAAATCTCAAAGGGAACGACATTGCCCTGCTCAAAGTGGCTAACCCCGTCTC  
 CCTCACCGACAAGATCCAGCTGGCCTGCCTCCCTCCTGCCGGCACCATTCTACCCAACAA  
 CTACCCCTGCTACGTACGGGCTGGGGAAGGCTGCAGACCAACGGGGCTGTTCTGATGT  
 CCTGCAGCAGGGCCGGTTGCTGGTTGTGGACTATGCCACCTGCTCCAGCTCTGCCTGGT  
 GGGCAGCAGCGTAAAACAGTATGATCTGTGCTGGGGGTGATGGCGTGATCTCCAGCTG  
 CAACGGAGACTCTGGCGGGCCACTGAACTGTGAGGCGTCTGACGGCCGGTGGCAGGTGCA  
 CGGCATCGTCAGCTTCGGGTCTCGCCTCGGCTGCAACTACTACCAAGCCCTCCGTCTT  
 CACGCGGGTCTCCAATTACATCGACTGGATCAATTCGGTGATTGCAAATAACTAACCAAA  
 AGAAGTCCCTGGGACTGTTTCAGACTTGGAAAGGTCACAGAAGGAAAATAATAATAAAA  
 GTGACAACTATGCAA  
 AAAAAAAAAAAAAAAAAAAAAA



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_033440 unedited CTCGTGCAGTTGGGTTTTGTATACGACTTATATAGGCGGCCGCGCAATTCGCCATTACGG CCGGGGCTTACAGAACTCCCACGGACACACCATGATAAGGACGCTGCTGTGCCACTTT GGTGGCTGGAGCCCTCAGTTGTGGGGACCCCACTACCCACCTTATGTGACTAGGGTGGT TGGCGGTGAAGAAGCGAGGCCAACAGCTGGCCCTGGCAGGTCTCCCTGCAGTACAGCTC CAATGGCAAGTGGTACCACACCTGCGGAGGGTCCCTGATAGCCAACAGCTGGGTCCTGAC GGCTGCCACTGCATCAGCTCCTCCAGGACCTACCGCGTGGGGCTGGGCCGGCACAACT CTACGTTGCGGAGTCCGGCTCGCTGGCAGTCAGTGTCTTAAGATTGTGGTGCACAAGGA CTGGAACCTCAACCAAATCTCCAAGGGAACGACATTGCCCTGCTCAAACCTGGCTAACCC CGTCTCCCTCACCGACAAGATCCAGCTGGCCTGCCTCCCTCCTGCCGGCACCACTTCTACC CAACAACCTACCCCTGCTACGTACGGGCTGGGGAAGGCTGCAGACCAACGGGGCTGTTCC TGATGTCTGCAGCAGGGCCGGTGTGGTTGTGGACTATGCCACCTGCTCCAGCTCTGC CTGGTGGGGCAGCAGCGTAAAACCAAGTATGATCTGTGCTGGGGTGTGGCGTGATCTC CAGCTGCAACGGAGACTCTGGCGGGCCACTGAACTGTCAGGCGTCTGACGGCCGGTGGA GGTGCACGGCATCGTCAGCTTCGGGTCTCGCCTCGGCTGCAACTACTACCACAAGCCCTC CGTCTTACGCGGGTCTCCAATTACA
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_033440
<b>Insert Size:</b>	979 bp
<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="#">NM_033440.1</a> , <a href="#">NP_254275.1</a>
<b>RefSeq Size:</b>	979 bp
<b>RefSeq ORF:</b>	810 bp
<b>Locus ID:</b>	63036
<b>UniProt ID:</b>	<a href="#">P08217</a>
<b>Cytogenetics:</b>	1p36.21
<b>Protein Families:</b>	Druggable Genome, Protease, Secreted Protein

**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. Like most of the human elastases, elastase 2A is secreted from the pancreas as a zymogen. In other species, elastase 2A has been shown to preferentially cleave proteins after leucine, methionine, and phenylalanine residues. [provided by RefSeq, May 2009]