

## Product datasheet for **SC310592**

### CELA1 (NM\_001971) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CELA1 (NM_001971) Human Untagged Clone
Tag:	Tag Free
Symbol:	CELA1
Synonyms:	ELA1
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001971, the custom clone sequence may differ by one or more nucleotides

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ATGCTGGTCCTTTATGGACACAGCACCCAGGACCTCCGGAAACCAATGCCCGCGTAGTCGGAGGGACTG
AGGCCGGGAGGAATTCCTGGCCCTCTCAGATTTCCCTCCAGTACCGGTCTGGAGGTTCCCGGTATCACAC
CTGTGGAGGGACCCTTATCAGACAGAAGTGGGTGATGACAGCTGCTCACTGCGTGGATTACCAGAAGACT
TTCCGCGTGGTGGCTGGAGACCATAACCTGAGCCAGAATGATGGCACTGAGCAGTACGTGAGTGTGCAGA
AGATCGTGGTGCATCCATACTGGAACAGCGATAACGTGGCTGCCGGCTATGACATCGCCCTGCTGCGCT
GGCCAGAGCGTTACCCTCAATAGCTATGTCCAGCTGGGTGTTCTGCCCCAGGAGGGAGCCATCCTGGCT
AACACAGTCCCTGCTACATCACAGGCTGGGGCAAGACCAAGACCAATGGGCAGCTGGCCAGACCCTGC
AGCAGGCTTACCTGCCCTCTGTGGACTACGCCATCTGCTCCAGCTCCTCTACTGGGGCTCCACTGTGAA
GAACACCATGGTGTGTGCTGGTGGAGATGGAGTTCGCTCTGGATGCCAGGGTGACTCTGGGGCCCCCTC
CATTGCTTGGTGAATGGCAAGTATTCTGTCCATGGAGTGACCAGCTTTGTGTCCAGCCGGGGCTGTAATG
TCTCCAGGAAGCCTACAGTCTTCACCCAGGTCTCTGCTTACATCTCCTGGATAAAATATGTCATCGCCTC
CAACTGA
```

Restriction Sites:	Please inquire
ACCN:	NM_001971
Insert Size:	800 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).



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<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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_001971.4</a> , <a href="#">NP_001962.3</a>
<b>RefSeq Size:</b>	952 bp
<b>RefSeq ORF:</b>	777 bp
<b>Locus ID:</b>	1990
<b>UniProt ID:</b>	<a href="#">Q9UNI1</a>
<b>Cytogenetics:</b>	12q13.13
<b>Protein Families:</b>	Druggable Genome, Protease, Secreted Protein
<b>Gene Summary:</b>	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, pancreatic elastase 1 is not expressed in the pancreas. To date, elastase 1 expression has only been detected in skin keratinocytes. Clinical literature that describes human elastase 1 activity in the pancreas or fecal material is actually referring to chymotrypsin-like elastase family, member 3B. [provided by RefSeq, May 2009]