

## Product datasheet for **SC320452**

### Kallistatin (SERPINA4) (NM\_006215) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Kallistatin (SERPINA4) (NM_006215) Human Untagged Clone
Tag:	Tag Free
Symbol:	Kallistatin
Synonyms:	KAL; kallistatin; KLST; KST; PI-4; PI4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_006215.2  
 CAGAGCTGAGACAGCCACCCAGGGGTCCACTCCAGGACAGACTGTGCCGCTGAGAGTG  
 CAGAGGATGCATCTTATCGACTACCTGCTCCTCTGCTGGTTGGACTACTGGCCCTTTCT  
 CATGGCCAGCTGCACGTTGAGCATGATGGTGAGAGTTGCAGTAACAGCTCCCACCAGCAG  
 ATTCTGGAGACAGGTGAGGGCTCCCCAGCCTCAAGATAGCCCTGCCAATGCTGACTTT  
 GCCTTCCGCTTCTACTACCTGATCGCTTCGGAGACCCCGGGAAGAACATCTTTTTCTCC  
 CCGGTGAGCATCTCGGCGCCTACGCCATGCTTTCCCTGGGGCCTGCTCACACAGCCGC  
 AGCCAGATCCTTGAGGGCTGGGCTTCAACCTCACCGAGCTGTCTGAGTCCGATGTCAT  
 AGGGGCTTCCAGCACCTCTGCACACTCTCAACCTCCCCGGCCATGGGCTGGAAACACGC  
 GTGGGCAGTGCTCTGTTCTGAGCCACAACCTGAAGTTCCTTGCAAAAATCCTGAATGAC  
 ACCATGGCCGTCTATGAGGCTAACTCTCCACACCAACTTCTACGACACTGTGGGCACA  
 ATCCAGCTTATCAACGACCACGTCAAGAAGGAAACTCGAGGGAAGATTGTGGATTTGGTC  
 AGTGAGCTCAAGAAGGACGTCTTGATGGTGTGGTGAATTACATTTACTTCAAAGCCCTG  
 TGGGAGAAACCATTCAATTCCTCAAGGACCACTCCCAAAGACTTTTATGTTGATGAGAAC  
 ACAACAGTCCGGGTGCCATGATGCTGCAGGACCAGGAGCATCACTGGTATCTTCATGAC  
 AGATACTTGCCCTGCTCGGTGCTACGGATGGATTACAAAGGAGACGCAACCGTGTTTTTC  
 ATTCTCCCTAACCAAGGCAAAATGAGGGAGATTGAAGAGTTCTGACTCCAGAGATGCTA  
 ATGAGGTGGAACAACCTGTTGCGGAAGAGGAATTTTACAAGAAGCTAGAGTTGCATCTT  
 CCCAAGTTCTCCATTTCTGGCTCCTATGTATTAGATCAGATTTTCCCAGGCTGGGCTTC  
 ACGGATCTGTTCTCAAGTGGGTGACTTATCCGGCATCACCAACAGCAAAAATGGAG  
 GCATCCAAAAGTTCCACAAGGCCACCTTGACGTGGATGAGGCTGGCACCGAGGCTGCA  
 GCAGCCACCAGCTTCGCATCAAATCTTCTCTGCCAGACCAATCGCCACATCCTGCCA  
 TTCAACGGCCCTTCTTGTGGTATCTTTCCACCAGCACCCAGAGTGTCTCTTTCTG  
 GGCAAGGTGTCGACCCACGAAACCATAGCCCTCCCAGGGCTGCTCATCTGTTCCAAGC  
 AGGAGGATGTGGCAGGGAGGGGTGGGAGTGAGTAGCTCTGTGTTTAGAGTTGGGACAA  
 GGATGACACCGAAGGTCCAGGAGTCCAGGACAGCAGGTGCTGGCCGGTGGGGAGCGGGGA  
 GGGGCACTGAGATGGGCAGGGCCTGGACATTCCACACCCTGGTGTGTGCAGCCTCTGGC  
 AGAGCATCCGACCTTTGGAGCAAGTTTCTGCCTCTGAAAGGGGGCGGGCCCTTTTAC  
 AACAGGCTGGTTGTACCGAGTAAACAACACGATGCCATGAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_006215

**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).

**OTI Annotation:** 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.

**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).

<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>	<u>NM_006215.2</u> , <u>NP_006206.2</u>
<b>RefSeq Size:</b>	1678 bp
<b>RefSeq ORF:</b>	1284 bp
<b>Locus ID:</b>	5267
<b>UniProt ID:</b>	<u>P29622</u>
<b>Cytogenetics:</b>	14q32.13
<b>Domains:</b>	SERPIN
<b>Protein Families:</b>	Druggable Genome, Secreted Protein
<b>Gene Summary:</b>	<p>Inhibits human amidolytic and kininogenase activities of tissue kallikrein. Inhibition is achieved by formation of an equimolar, heat- and SDS-stable complex between the inhibitor and the enzyme, and generation of a small C-terminal fragment of the inhibitor due to cleavage at the reactive site by tissue kallikrein.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (3) has an alternate splice site in the 5' region, which results in translation initiation at a downstream AUG codon, compared to variant 1. The resulting isoform (2) has a shorter N-terminus, compared to isoform 1. Both variants 2 and 3 encode the same isoform 2.</p>