

## Product datasheet for **SC122623**

### Kallikrein 1 (KLK1) (NM\_002257) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Kallikrein 1 (KLK1) (NM_002257) Human Untagged Clone
Tag:	Tag Free
Symbol:	Kallikrein 1
Synonyms:	hK1; Klk6; KLKR
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM\_002257 edited  
 TCCTCCACCTGCTGGCCCTGGACACCTCTGTCACCATGTGGTTCCTGGTTCTGTGCCTC  
 GCCCTGTCCCTGGGGGGACTGGTGTGCGCCCCGATTAGTCCCGATTGTGGGAGGC  
 TGGGAGTGTGAGCAGCATTCCCAGCCCTGGCAGGCGGCTCTGTACCATTTCAGCACTTTC  
 CAGTGTGGGGGCATCCTGGTGCACCGCCAGTGGGTGCTCACAGCTGCTCATTGCATCAGC  
 GACAATTACCAGCTCTGGCTGGTGCACCACTTGTGTTGACGACGAAAACAGCCAG  
 TTTGTTTCATGTCAGTGAGAGCTTCCCACACCCTGGCTTCAACATGAGCCTCCTGGAGAAC  
 CACACCCGCCAAGCAGACGAGGACTACAGCCACGACCTCATGCTGCTCCGCCTGACAGAG  
 CCTGCTGATACCATCACAGACGCTGTGAAGGTCGTGGAGTTGCCACCCAGGAACCCGAA  
 GTGGGGAGCACCTGTTTGGCTTCCGGCTGGGGCAGCATCGAACCCAGAGAATTTCTCATT  
 CCAGATGATCTCCAGTGTGTGGACCTCAAATCCTGCCTAATGATGAGTGCAAAAAAGTC  
 CACGTCCAGAAGGTGACAGACTTCATGCTGTGTGTCGGACACCTGGAAGGTGGCAAAGAC  
 ACCTGTGTGGGTGATTCAGGGGGCCCGCTGATGTGTGATGGTGTGCTCCAAGGTGCACA  
 TCATGGGGCTACGTCCCTTGTGGCACCCCAATAAGCCTTCTGTGCGCGTCAGAGTGCTG  
 TCTTATGTGAAGTGGATCGAGGACCATAGCGGAGAACCTCTGAACGCCAGCCCTGTC  
 CCTACCCCCAGTAAAATCAAATGTGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_002257 unedited GTTCCCATTGTATACGACTCATATAGGCGGCACGCGAATTCGCCATTACGGCCGGGGTCTCCACCTGTGGCCCTGGACACCTCTGTACCATGTGGTTCCTGGTCTGTGCCTCGCCTGTCCCTGGGGGGGACTGGTGTGCGCCCCGATTTCAGTCCCGGATTGTGGGAGGCTGGAGTGTGAGCAGCATTCCCAGCCCTGGCAGGCGGCTCTGTACCATTTCAGCACTTTCCAGTGTGGGGCATCCTGGTGCACCGCCAGTGGGTGCTCACAGCTGCTCATTGCATCAGCGACAATTACCAGCTCTGGCTGGGTGCGCCACAACCTGTTTGACGACGAAAACACAGCCAGTTGTTTCATGTCAGTGAGAGCTTCCACACCCTGGCTTCAACATGAGCCTCCTGGAGAACCACACCCGCAAGCAGACGAGGACTACAGCCACGACCTCATGCTGCTCCGCCTGACAGAGCTGCTGATACCATCACAGACGCTGTGAAGGTCGTGGAGTTGCCACCCAGGAACCCGAAGTGGGAGCACCTGTTTGGCTTCCGGCTGGGGCAGCATCGAACCAGAAGATTTCTCATTTCCAGATGATCTCCAGTGTGTGGACCTCANAATCCTGCCTAATGATGAGTGCANAANAGTCCACGTCCAGAAGGTGACAGACTTCATGCTGTGTGTCNGACACCCTGGAAGGTGGCAAAGACACCTGTGTGGGTGATTGAGNGGCCCGCTGATGTGTGATGGTGTGCTCCAAAGTGCACATCATGGGGTACGTCCTTGTGGCACCCNATAAGCCTTCTGTGCGCGTCAGAATGCCTGTCTATGTGAAGTGATCCAGGACCCCTANCGGAGGACTCTGAACGCCAGCCTGTGCCCTACCCCGTAAATTCATTGGTAAAAAAAAAAAAAAAAAAAAA
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_002257
<b>Insert Size:</b>	897 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_002257.2</a> , <a href="#">NP_002248.1</a>
<b>RefSeq Size:</b>	874 bp
<b>RefSeq ORF:</b>	789 bp
<b>Locus ID:</b>	3816
<b>UniProt ID:</b>	<a href="#">P06870</a>
<b>Cytogenetics:</b>	19q13.33
<b>Protein Families:</b>	Druggable Genome, Protease

**Gene Summary:**

Kallikreins are a subgroup of serine proteases having diverse physiological functions. Growing evidence suggests that many kallikreins are implicated in carcinogenesis and some have potential as novel cancer and other disease biomarkers. This gene is one of the fifteen kallikrein subfamily members located in a cluster on chromosome 19. This protein is functionally conserved in its capacity to release the vasoactive peptide, Lys-bradykinin, from low molecular weight kininogen. [provided by RefSeq, Jul 2008]