

Product datasheet for **SC122279**

Kallikrein 7 (KLK7) (BC032005) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kallikrein 7 (KLK7) (BC032005) Human Untagged Clone
Tag:	Tag Free
Symbol:	Kallikrein 7
Synonyms:	kallikrein-related peptidase 7; kallikrein 7 (chymotryptic, stratum corneum); protease, serine, 6; PRSS6; SCCE; signal protein; stratum corneum chymotryptic enzyme
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for BC032005 edited

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CCAGCTGTGTGCCAGCCCAAGTCGGAACCTGGATCACATCAGATCCTCTCGAGCTCCAGC
AGGAGAGGCCCTTCTCGCCTGGCAGCCCTGAGCGGCTCAGCAGGGCACCATGGCAAGA
TCCCTTCTCCTGCCCTGCAGATCCTACTGCTATCCTTAGCCTTGAAACTGCAGGAGAA
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TGGGTGCTCACTGCCGCCACTGCAAGATGAATGAGTACACCGTGCACCTGGGCAGTGAT
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TACTCCACACAGACCCATGTTAATGACCTCATGCTCGTGAAGCTCAATAGCCAGGCCAGG
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CTTCCAACAGAAAATGCACAGGAGTGAGGACGCCGATGACCTATGAAGTCAAATTTGACT
TTACCTTCTCCTCAAAGATATATTTAAACCTCATGCCCTGTTGATAAACCAATCAAATTTG
TAAAGACCTAAAACAAAAACAAATAAAGAAACAAAAACCCTCAGTGTGGAGAAGATC
AGTGAGACCAGCACTCTCAAACACTGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAA
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5' Read Nucleotide Sequence:	>OriGene 5' read for BC032005 unedited GGGACAACTTGGATTTGTAAACCCACACACTGGGGGCGGCACACACCATCCCGGGATC CAGCTGTGTGCCAGCCCAAGTCGGAAGTGGATCACATCAGATCCTCTCGAGCTCCAGCA GGAGAGGCCCTTCTCGCTGCGAGCCCTGAGCGGCTCAGCAGGGCACCATGGCAAGAT CCCTTCTCCTGCCCTGCAGATCCTACTGCTATCCTTAGCCTTGGAACTGCAGGAGAAG AAGCCCAGGGTGACAAGATTATTGATGGCGCCCATGTGCAAGAGGCTCCCACCCATGGC AGGTGGCCCTGCTCAGTGGCAATCAGTCCACTGCGGAGGCGTCTGGTCAATGAGCGCT GGGTGCTCACTGCCGCCACTGCAAGATGAATGAGTACACCGTGCACCTGGGCAGTGATA CGCTGGGCGACAGGAGAGCTCAGAGGATCAAGGCCTCGAAGTCATTCCGCCACCCCGCT ACTCCACACAGACCCATGTTAATGACCTCATGCTCGTGAAGCTCAATAGCCAGGCCAGGC TGTCCATCCATGGTGAAGAAAGTCAAGGCTGCCCTCCCGCTGCGAACCCCTGGAACCACT GTACTGTCTCCGGCTGGGGCACTACCACGAGCCAGATGTGACCTTTCCCTCTGACCTCA TGTGCGTGGATGTCAAGCTCATCTCCCCCAGGACTGCACGAAGGTTTACAAGGACTTAC TGGAAAATTCATGCTGTGCGCTGGCATCCCCGACTCCAAGAAAAACGCCTGCAATGGTG ACTCAGGGGGACCGTTGGTGTGAGAGGTACCCTGCAAGGTCTGGTGTCTCTGGGGAAGTT TCCTTGGCGCAACCCATGACCAGGAGTCTACACTCAGTGTGCAAGTACCAAGTGGTA TAAATGACACATGAAAAAGCATCGCTA
Restriction Sites:	Please inquire
ACCN:	BC032005
Insert Size:	1145 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:	<ol style="list-style-type: none"> 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	BC032005.1 , AAH32005.1
RefSeq Size:	1145 bp
Locus ID:	5650
Cytogenetics:	19q13.41
Protein Families:	Druggable Genome, Secreted Protein

Gene Summary:

This gene encodes a member of the kallikrein subfamily of serine proteases. These enzymes have diverse physiological functions and many kallikrein genes are biomarkers for cancer. The encoded protein has chymotrypsin-like activity and plays a role in the proteolysis of intercellular cohesive structures that precedes desquamation, the shedding of the outermost layer of the epidermis. The encoded protein may play a role in cancer invasion and metastasis, and increased expression of this gene is associated with unfavorable prognosis and progression of several types of cancer. Polymorphisms in this gene may play a role in the development of atopic dermatitis. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene, which is one of fifteen kallikrein subfamily members located in a gene cluster on chromosome 19. [provided by RefSeq, May 2011]