

Product datasheet for **SC321771**

Kallikrein 7 (KLK7) (NM_005046) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Kallikrein 7 (KLK7) (NM_005046) Human Untagged Clone
Tag: Tag Free
Symbol: Kallikrein 7
Synonyms: hK7; PRSS6; SCCE
Mammalian Cell Selection: None
Vector: [pCMV6-XL5](#)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_005046 edited
 CCAGCTGTGTGCCAGCCCAAGTCGGAACCTGGATCACATCAGATCCTCTCGAGCTCCAGC
 AGGAGAGGCCCTTCCTCGCCTGGCAGCCCTGAGCGGCTCAGCAGGGCACCATGGCAAGA
 TCCCTTCTCCTGCCCTGCAGATCCTACTGCTATCCTTAGCCTTGAAACTGCAGGAGAA
 GAAGCCCAGGGTGACAAGATTATTGATGGCGCCCATGTGCAAGAGGCTCCCACCCATGG
 CAGGTGGCCCTGCTCAGTGGCAATCAGCTCCACTGCGGAGGCGTCTGGTCAATGAGCGC
 TGGGTGCTCACTGCCGCCACTGCAAGATGAATGAGTACACCGTGCACCTGGCAGTGAT
 ACGCTGGGCGACAGGAGACTCAGAGGATCAAGGCCTCGAAGTATTCCGCCACCCCGGC
 TACTCCACACAGACCCATGTTAATGACCTCATGCTCGTGAAGCTCAATAGCCAGGCCAGG
 CTGTCATCCATGGTGAAGAAAGTCAGGCTGCCCTCCCGCTGCCAACCCTGGAACCACC
 TGTACTGTCTCCGGCTGGGGCACTACCACGAGCCAGATGTGACCTTTCCCTCTGACCTC
 ATGTGCGTGGATGTCAAGCTCATCTCCCCCAGGACTGCACGAAGGTTTACAAGGACTTA
 CTGAAAAATTCCATGCTGTGCGCTGGCATCCCCGACTCCAAGAAAAACGCCTGCAATGGT
 GACTCAGGGGGACCGTTGGTGTGCAGAGGTACCCTGCAAGGTCTGGTGTCTGGGAACT
 TTCCCTTGGGGCAACCCAATGACCCAGGAGTCTACACTCAAGTGTGCAAGTTCAACAAG
 TGGATAAATGACACCATGAAAAAGCATCGCTAACGCCCCCTGAGTTAATTAAGTGTGTG
 CTTCCAACAGAAAATGCACAGGAGTGAGGACGCCGATGACCTATGAAGTCAAATTTGACT
 TTACCTTTCCTCAAAGATATATTTAAACCTCATGCCCTGTTGATAAACCAATCAAATTGG
 TAAAGACTAAAACAAAACAAAATAAAGAAACACAAAACCTCAGTGTGGAGAAGAGTC
 AGTGAGACCAGCACTCTCAAACACTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
 AAAAA

Restriction Sites: RsrII-NotI
ACCN: NM_005046
Insert Size: 1100 bp



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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:	The ORF of this clone has been fully sequenced and found to have one SNP, which doesn't change amino acid.
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.
RefSeq:	NM_005046.2 , NP_005037.1
RefSeq Size:	1927 bp
RefSeq ORF:	762 bp
Locus ID:	5650
UniProt ID:	P49862
Cytogenetics:	19q13.41
Protein Families:	Druggable Genome, Secreted Protein
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (1). Variants 1 and 2 encode the same isoform. Sequence Note: This RefSeq record was created from transcript sequence data to make the sequence consistent with the reference genome assembly, which represents the 'AACCAACC' allele with regards to the 3' UTR polymorphism described in PMID 15191543.</p>