

Product datasheet for **SC118402**

Kallikrein 6 (KLK6) (NM_002774) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kallikrein 6 (KLK6) (NM_002774) Human Untagged Clone
Tag:	Tag Free
Symbol:	Kallikrein 6
Synonyms:	Bssp; hK6; Klk7; PRSS9; PRSS18; SP59
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118402 sequence for NM_002774 edited (data generated by NextGen Sequencing)

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ATGAAGAAGCTGATGGTGGTGCTGAGTCTGATTGCTGCAGCCTGGGCAGAGGAGCAGAAT
AAGTTGGTGCATGGCGGACCCTGCGACAAGACATCTCACCCCTACCAAGCTGCCCTCTAC
ACCTCGGGCCACTTGCTCTGTGGTGGGGTCCTTATCCATCCACTGTGGTCCCTCACAGCT
GCCCACTGCAAAAAACCGAATCTTCAGGTCTTCCTGGGGAAGCATAACCTTCGGCAAAGG
GAGAGTCCCAGGAGCAGAGTCTGTTGTCCGGGCTGTGATCCACCCTGACTATGATGCC
GCCAGCCATGACCAGGACATCATGCTGTTGCGCCTGGCACGCCAGCCAAACTCTCTGAA
CTCATCCAGCCCCTTCCCCTGGAGAGGGACTGCTCAGCCAACACCACCAGCTGCCACATC
CTGGGCTGGGGCAAGACAGCAGATGGTGATTTCCCTGACACCATCCAGTGTGCATACATC
CACCTGGTGTCCCGTGAGGAGTGTGAGCATGCCTACCCTGGCCAGATCACCAGAACATG
TTGTGTGCTGGGGATGAGAAGTACGGGAAGGATTCTGCCAGGGTGATTCTGGGGGTCGG
CTGGTATGTGGAGACCCTCCGAGGCCTTGTGTGATGGGGTAACATCCCCTGTGGATCA
AAGGAGAAGCCAGGAGTCTACACCAACGTCTGCAGATACACGAACTGGATCCAAAAAAC
ATTCAGGCCAAGTGA

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Clone variation with respect to NM_002774.3



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_002774 unedited ATACGACTCACTAAGGCGGCCGCGACATTCGCACGAGTGGGCTGGCTGGCTCGCTCTCTC CTGGGGACACAGAGGTCGGCAGGCAGCACACAGAGGGACCTACGGGCAGCTGTTCTCTCC CCCGACTCAAGAAATCCCCGGAGGCCCGGAGGCCTGCAGCAGGAGCGGCCATGAAAAAGCT GATGGTGGTGTGAGTCTGAATGCTGCAGCCTGGGCAGAGGAGCAGAATAAGTTGGTGCA TGGCGGACCCTTGCACAAGACATCTCACCCCTACCAAGCTGCCCTCTACACCTCGGGCC ACTTGCTCTGTGGTGGGTCCTTATCCATCCACTGTGGGTCTCACAGCTGCCACTGCA AAAAAACGAATCTTCAGGTCTTCTGGGAAGCATAACCTTCGGCAAAGGGAGAGTTCCC AGGAGCAGAGTTCTGTTGTCCGGGCTGTGATCCACCCTGACTATGATGCCGCCAGCCATG ACCAGGACATCATGCTGTTGCGCCTGGCAGCCAGCCAAACTCTCTGAACTCATCCAGC CCCTTCCCTGGAGAGGGACTGCTCAGCCAACACCACCAGCTGCCACATCCTGNGCTGGG GCAAGACAGCAGATGGTGATTTCCCTGACACCATCCAGTGTGCATACATCCACCTGGGTG TCCCGTGAGGGAGTGTGAGCATNGCCTACCCTGGCCAGAATACCCAAACATGGTTGTGTG CTGGGGATGAAAAAGTACGNAAGGATTCTGCCAGGGTGAATCTGGGGGTCCGCTGGT ATGNTGAGAACCCTNNCGAGCCNTGTGTCATGGGGGTACATNCCCTTGTGATCAAGGNA GAGCCAGNAGTCTACAACCACGTCTGCAAATCACGAACTGGATCCAAAAACATCAGGCA AANTGACCNTGAATGTGAAATTTACCTNCCGACCTACCACCCTGNNNTGTNCAAAAAACG NNCTAACTAACTA
3' Read Nucleotide Sequence:	>OriGene 3' read for NM_002774 unedited TGGCCCAGGTGCTATTCATGTATGTCATAGGTGTGAAACCTTAAATCTTTCCAACAGCC ACTGCCTTATGGAGACTGTATCATCCTTATCTTACAGGTGAGAAAAATCTGCAG TGAAG
Restriction Sites:	NotI-NotI
ACCN:	NM_002774
Insert Size:	1530 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.
RefSeq:	NM_002774.3 , NP_002765.1
RefSeq Size:	1527 bp
RefSeq ORF:	735 bp
Locus ID:	5653
UniProt ID:	Q92876

Cytogenetics: 19q13.41

Domains: Tryp_SPc

Protein Families: Druggable Genome, Protease, Secreted Protein

Gene Summary: This gene encodes a member of the kallikrein subfamily of the peptidase S1 family of serine proteases. Growing evidence suggests that many kallikreins are implicated in carcinogenesis and some have potential as novel cancer and other disease biomarkers. The encoded preproprotein is proteolytically processed to generate the mature protease. Expression of this protease is regulated by steroid hormones and may be elevated in multiple human cancers and in serum from psoriasis patients. The encoded protease may participate in the cleavage of amyloid precursor protein and alpha-synuclein, thus implicating this protease in Alzheimer's and Parkinson's disease, respectively. This gene is located in a gene cluster on chromosome 19. Alternative splicing results in multiple transcript variants, at least one of which encodes an isoform that is proteolytically processed. [provided by RefSeq, Feb 2016]
Transcript Variant: This variant (A), also called the classical form, is the most frequently occurring transcript. Variants A and B encode the same isoform (A).