

Product datasheet for SC125400

Kallikrein 11 (KLK11) (NM_144947) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kallikrein 11 (KLK11) (NM_144947) Human Untagged Clone
Tag:	Tag Free
Symbol:	Kallikrein 11
Synonyms:	PRSS20; TLSP
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC125400 sequence for NM_144947 edited (data generated by NextGen Sequencing)

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ATGCAGAGGTTGAGGTGGCTGCGGGACTGGAAGTCATCGGGCAGAGGTCTCACAGCAGCC
AAGGAACCTGGGGCCCGCTCCTCCCCCTCCAGGCCATGAGGATTCTGCAGTTAATCCTG
CTTGCTCTGGCAACAGGGCTTGTAGGGGAGAGACCAGGATCATCAAGGGTTTCGAGTGC
AAGCCTCACTCCCAGCCCTGGCAGGCAGCCCTGTTGAGAAGACGCGGCTACTCTGTGGG
GCGACGCTCATCGCCCCAGATGGCTCCTGACAGCAGCCCACTGCCTCAAGCCCCGCTAC
ATAGTTCACCTGGGGCAGCACAACTCCAGAAGGAGGAGGGCTGTGAGCAGACCCGGACA
GCCACTGAGTCCTTCCCCACCCCGCTTCAACAACAGCCTCCCCAACAAAGACCACCGC
AATGACATCATGCTGGTGAAGATGGCATGCCAGTCTCCATCACCTGGGCTGTGCGACCC
CTCACCTCTCCTCACGCTGTGCTACTGCTGGCACCAGCTGCCTCATTTCCGGCTGGGGC
AGCACGTCAGCCCCAGTNACGCTGCCTCACACCTTGCATGCGCCAACATCACCATC
ATTGAGCACCAGAAGTGTGAGAAGCCTACCCCGCAACATCACAGACACCATGGTGTGT
GCCAGCGTGCAGGAAGGGGGCAAGGACTCCTGCCAGGGTACTCCGGGGCCCTCTGGTC
TGTAACCAAGTCTTTCAAGGCATTATCTCCTGGGGCCAGGATCCGTGTGCGATCACCCGA
AAGCCTGGTGTCTACACGAAAGTCTGCAAATATGTGGACTGGATCCAGGAGACGATGAAG
ACAATTAG

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Clone variation with respect to NM_144947.1
560 t=>n



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_144947 unedited
 GTTANGATATTTGTNATACGACTCACTATAGGCGGCCGCGAAATTCGCACGAGGGCTGGG
 AGAAGCAGGAATCTGCGCTCGGGTTCGCGAGATGCAGAGGTTGAGGTGGCTGCGGGACTG
 GAAGTCATCGGGCAGAGGTCTCACAGCAGCAAGGAACCTGGGGCCCGCTCCTCCCCCT
 CCAGGCCATGAGGATTCTGCAGTTAATCCTGCTTGTCTGGCAACAGGGCTTGTAGGGGG
 AGAGACCAGGATCATCAAGGGGTTGAGTGCAAGCCTCACTCCCAGCCCTGGCAGGCAGC
 CCTGTTCGAGAAGACGCGGCTACTCTGTGGGGCGACGCTCATCGCCCCAGATGGCTCCT
 GACAGCAGCCCACTGCCTCAAGCCGTGGGTGCGGGGGCTGGGGCGGTGCCGGGTGGGGG
 GCTGGGAATGGGAGATGGATGGAGAGAAGCTCAGGGATACGGGTGCTGGTAAGGGGATC
 ACAGATGGGGATGGGTAGTGTGTCAGCAACGCTGATGGGCTCGAGCTGGTATTGAAGGTGGG
 GGGATGAATGGGGTTGGGATGGGGCTATGGCTGGGAATGGGGCTACCGTGCACACGCTGG
 AACAGTCGCACATCCACCGACGCTCTTCATCCTCAAAGCGTCATTACTTCTACCACC
 ATGTCTCCCCGACCTTTTTATTCTGCAATACTGAATCTCCACCTCAACCGATACATAT
 TTCACCTGGGGAATCCACAATCTCCACAACGATGAAGGGTTGGGATCAAACCCGGACAGA
 CACCTGATACCTCCCCCCCCGGCTTCAACAACAACCTCCCCACCACAAACCACCGAA
 ACGACTATACGGGGCGAACAGGCATCGCCACACTCCATAACCTGGCCTGCGCCAACCTC
 TCCCCCTTCTACCGCGCGCCACTGCTGGCAC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_144947 unedited
 ACTTCCAGGCCAGGAGAGGCACTGGGGAGGGGTACAGGGATGCCACCCGGGATCTGTTC
 AGGAAACAGCTATGACCGCGGCCGAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTCAC
 TCATTTAGCAAAATTTTATTGAAACCTTGATATATGGCCAGGAGCTGTCTTTGGGGCTGG
 GGATACAACAGAGAACAACCAGGTGTTGTCATTCCCAGAGTCACAATATTTCAAGGCAG
 AATTTGAATCCAGGTCTCACTGATTTTGAACCCAGGTTGATTATTAAGTGACAGCATCT
 CCTGTAGTCCAGGAGGCCAAAGAATGTTCTGATAGGGGCTTGGCTTAGGGTTTCTTATT
 AACAGAGTGAACAGGAACCAACCAAGTGGAAATGGAGGGTATGGGCTGTGGTGGTG
 GGTCCAGTCTAATTGTTCTTCATCGTCTCCTGGATCCAGTCCACATATTTGCAGACTTTC
 GTGTAGACACCAGGCTTTCGGGTGATCGCACACGGATCCTGGCCCCAGGAGATAATGCCT
 TGAAGAGACTGGTTACAGACCAGAGGGCCCCGGAGTACCCTGGCAGGAGTCTTTGCC
 CCTTCTGCACGCTGGCACACACCATGGTGTCTGTGATNGTGCCNGGGTTAGCGTTCTTA
 CACTTTCTGTGCTCAAAGATAGGAATGTTGCGCCACCCAAGGTGGGAGGCAAGCTACTGT
 GAAAACAACCTGGAGGGTTTTGGAAAGACCCCGGCCCTTC

Restriction Sites:

NotI-NotI

ACCN:

NM_144947

Insert Size:

2500 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:

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_144947.1](#), [NP_659196.1](#)

RefSeq Size: 1289 bp

RefSeq ORF: 849 bp

Locus ID: 11012

UniProt ID: [Q9UBX7](#)

Cytogenetics: 19q13.41

Protein Families: Druggable Genome, Protease, Secreted Protein

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. Alternate splicing and the use of alternate promoters results in multiple transcript variants encoding distinct isoforms which are differentially expressed. [provided by RefSeq, Dec 2016]
Transcript Variant: This variant (2) encodes the longest isoform (2) which is preferentially expressed in prostate. This variant represents use of an mammalian interspersed repeat (MIR) alternate promoter and exon sequence. (PMID: 14550626).