

## Product datasheet for **SC306286**

### Kallikrein 10 (KLK10) (NM\_145888) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Kallikrein 10 (KLK10) (NM_145888) Human Untagged Clone
Tag:	Tag Free
Symbol:	KLK10
Synonyms:	NES1; PRSSL1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC306286 representing NM_145888. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAGAGCTCCGCACCTCCACCTCTCCGCCGCTCTGGCGCCGGGCTCTGGCGAAGCTGCTGCCGCTG
CTGATGGCGCAACTCTGGGCCGAGAGGCGGCGCTGCTCCCCAAAACGACACGCGCTTGGACCCCGAA
GCCTATGGCTCCCGTGC GCGCGCGGCTCGCAGCCCTGGCAGGTCTCGCTCTTCAACGGCTCTCGTTC
CACTGCGCGGGTGTCTGGTGGACCAGAGTTGGGTGCTGACGGCCGCGCACTGCGGAAACAAGCCACTG
TGGGCTCGAGTAGGGATGACCACCTGCTGCTTCTCAGGGAGAGCAGCTCCGCCGACCCTCGCTCT
GTTGTCCATCCAAGTACCACCAGGGCTCAGGCCCATCTGCCAAGGCGAACGGATGAGCACGATCTC
ATGTTGCTGAAGCTGGCCAGGCCGTAGTCTGGGGCCCCGCGTCCGGGCCCTGCAGTTCCTACCCG
TGTGCTCAGCCCGGAGACCAGTGCCAGGTTGCTGGCTGGGGCACCACGGCCGCCGGAGAGTGAAGTAC
AACAAAGGGCTGACCTGCTCCAGCATCACTATCCTGAGCCCTAAAGAGTGTGAGGTCTTCTACCCTGGC
GTGGTCACCAACAACATGATATGTGCTGGACTGGACCGGGGCCAGGACCCCTGCCAGAGTACTCTGGA
GGCCCCCTGGTCTGTGACGAGACCCTCCAAGGCATCCTCTCGTGGGGTGTAAACCCTGTGGCTCTGCC
CAGCATCCAGTGTCTACACCCAGATCTGCAAATACATGTCTGGATCAATAAAGTCATACGCTCCAAC
TGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
```

Restriction Sites:	Sgfl-MluI
Plasmid Map:	□
ACCN:	NM_145888
Insert Size:	831 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:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_145888.2](#)

**RefSeq Size:** 2985 bp

**RefSeq ORF:** 831 bp

**Locus ID:** 5655

**UniProt ID:** [O43240](#)

**Cytogenetics:** 19q13.41

**Protein Families:** Druggable Genome, Protease, Secreted Protein

**MW:** 30.2 kDa

**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. Its encoded protein is secreted and may play a role in suppression of tumorigenesis in breast and prostate cancers. Alternate splicing of this gene results in multiple transcript variants encoding the same protein. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. All transcript variants encode the same protein.