

## Product datasheet for RC229810

### Kallikrein 11 (KLK11) (NM\_001167605) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Kallikrein 11 (KLK11) (NM_001167605) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kallikrein 11
Synonyms:	PRSS20; TLSP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC229810 representing NM_001167605 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGGATTCTGCAGTTAATCCTGCTTGTCTGGCAACAGGGCTTGTAGGGGGAGAGACCAGGATCATCA  
AGGGGTTTCGAGTGCAAGCCTCACTCCCAGCCCTGGCAGGCAGCCCTGTTTCGAGAAGACGGGCTACTCTG  
TGGGGCGACGCTCATCGCCCCAGATGGCTCCTGACAGCAGCCCACTGCCTCAAGCCGTGGGTGTCACCT  
ACCTCTCCACCCATGTCTCCCCGACCTTTCCTCCTCCAACACTGTCTCTCCACCTCAGCCGCTACA  
TAGTTCACCTGGGGCAGCACAACTCCAGAAGGAGGGGCTGTGAGCAGACCCGGACAGCCACTGAGTC  
CTCCCCACCCCGGCTTCAACAACAGCCTCCCCAACAAAGACCACCGCAATGACATCATGCTGGTGAAG  
ATGGCATCGCCAGTCTCCATCACCTGGGCTGTGCGACCCCTCACCTCTCCTCACGCTGTGTCACTGCTG  
GCACCAGTGCCTCATTCCGGCTGGGGCAGCAGTCCAGCCCCAGTTACGCCTGCCTCACACCTTGCG  
ATGCGCCAACATCACCATCATTGAGCACCAGAAGTGTGAGAACGCCTACCCCGGCAACATCACAGACACC  
ATGGTGTGTGCCAGCGTGCAGGAAGGGGCAAGGACTCCTGCCAGGGTACTCCGGGGCCCTCTGGTCT  
GTAACCAGTCTTCAAGGCATTATCTCCTGGGGCCAGGATCCGTGTGCGATCACCCGAAAGCCTGGTGT  
CTACACGAAAGTCTGAAATATGTGGACTGGATCCAGGAGACGATGAAGAACAAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC229810 representing NM\_001167605  
Red=Cloning site Green=Tags(s)

MRI L Q L I L L A L A T G L V G G E T R I I K G F E C K P H S Q P W Q A A L F E K T R L L C G A T L I A P R W L L T A A H C L K P W V S L  
 T S P T H V S P D L S S S N Y C L S H L S R Y I V H L G Q H N L Q K E E G C E Q T R T A T E S F P H P G F N N S L P N K D H R N D I M L V K  
 M A S P V S I T W A V R P L T L S S R C V T A G T S C L I S G W G S T S S P Q L R L P H T L R C A N I T I I E H Q K C E N A Y P G N I T D T  
 M V C A S V Q E G G K D S C Q G D S G G P L V C N Q S L Q G I I S W G Q D P C A I T R K P G V Y T K V C K Y V D W I Q E T M K N N

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8048\\_f06.zip](https://cdn.origene.com/chromatograms/mk8048_f06.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001167605

**ORF Size:** 825 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_001167605.2](#)

**RefSeq ORF:** 828 bp

**Locus ID:** 11012

**UniProt ID:** [Q9UBX7](#)

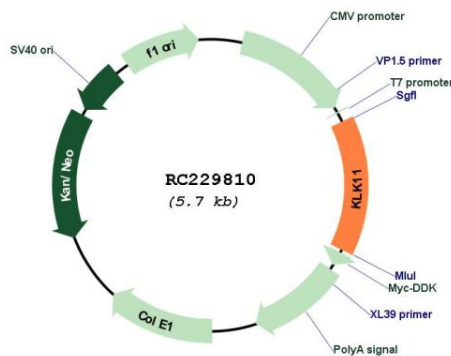
**Cytogenetics:** 19q13.41

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

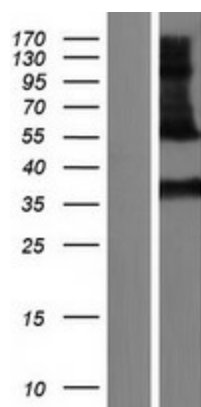
**MW:** 30.6 kDa

**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. 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]

### Product images:



Circular map for RC229810



Western blot validation of overexpression lysate (Cat# [LY432810]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC229810 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).