

Product datasheet for RC210131

Kallikrein 15 (KLK15) (NM_017509) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kallikrein 15 (KLK15) (NM_017509) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kallikrein 15
Synonyms:	ACO; HSRNASPH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC210131 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGGCTTCTCCTCACTCTCTCCTTCTGCTGGCATCCACAGCAGCCCAGGATGGTGACAAGTTGCTGG
AAGGTGACGAGTGTGCACCCCACTCCCAGCCATGGCAAGTGGCTCTCTACGAGCGTGGACGCTTTAACTG
TGGCGCTTCCCTCATCTCCCACTGGGTGCTGTCTGCGGCCCACTGCCAAAGCCGCTTCATGAGAGTG
CGCCTGGGAGAGCACAACCTGCGCAAGCGCGATGGCCAGAGCAACTACGGACCACGTCTCGGGTCAATC
CACACCCGCGCTACGAAGCGCGCAGCCACCGCAACGACATCATGTTGCTGCGCCTAGTCCAGCCCGCAGC
CCTGAACCCCAAGGTGCGCCCGCGGTGTACCCACGCGTTGCCCCACCCGGGGAGGCCTGTGTGGTG
TCTGGCTGGGGCCTGGTGTCCCAACGAGCCTGGGACCCTGGGAGCCCCCGGTCACAAGTGAGTCTCC
CAGATACGTTGCATTGTGCCAACATCAGCATTATCTCGGACACATCTTGTGACAAGAGCTACCCAGGGCG
CCTGACAAACACCATGGTGTGTGCAGGCGCGGAGGGCAGAGGCGCAGAATCCTGTGAGGGTGACTCTGGG
GGACCCCTGGTCTGTGGGGCATCCTGCAGGGCATTGTGTCTGGGGTGACGTCCCTTGTGACAACACCA
CCAAGCCTGGTGTCTATACCAAAGTCTGCCACTACTTGGAGTGGATCAGGGAAACCATGAAGAGGAAC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC210131 protein sequence
Red=Cloning site Green=Tags(s)

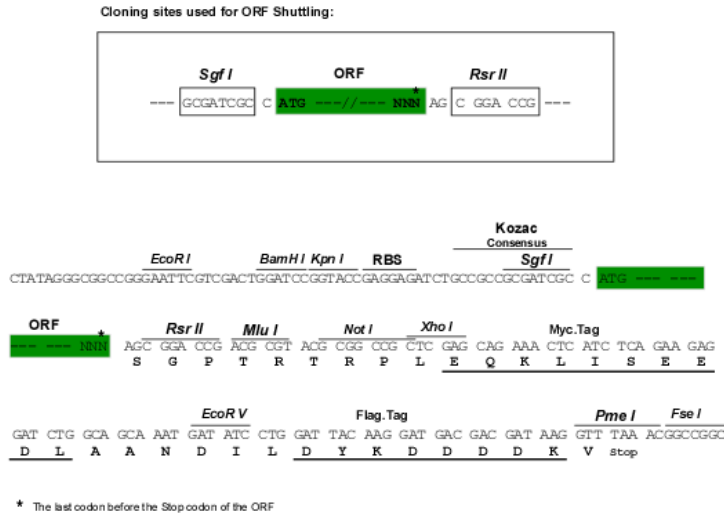
MWLLLTLSFLLASTAAQDGDKLLEGDECAPHSQPWQVALYERGRFNCASLISPHWVLSAAHCQSRFMRV
 RLGEHNLKRKRDGPEQLRTTSRVIPHPRYEARSHRNDIMLLRLVQPARLNPQVRPAVLPTRPCHPGEACVV
 SGWGLVSHNEPGTAGSPRSQVSLPDTLHCANISIIISDTSCKDSYPGRLTNTMVCAGAEGRGAESCEGDSG
 GPLVCGGILQGI VSWGDVPCDNTTKPGVYTKVCHYLEWIRETMKRN

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6189_h01.zip

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_017509

ORF Size: 768 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_017509.3](#)

RefSeq Size: 1325 bp

RefSeq ORF: 771 bp

Locus ID: 55554

UniProt ID: [Q9H2R5](#)

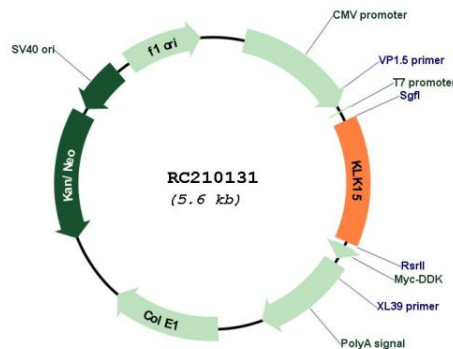
Cytogenetics: 19q13.33

Protein Families: Druggable Genome, Protease, Secreted Protein

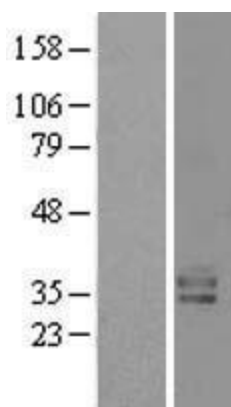
MW: 28.1 kDa

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. In prostate cancer, this gene has increased expression, which indicates its possible use as a diagnostic or prognostic marker for prostate cancer. The gene contains multiple polyadenylation sites and alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC210131



Western blot validation of overexpression lysate (Cat# [LY402593]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210131 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).