

## **Product datasheet for RC221010**

## Kallikrein 8 (KLK8) (NM 144505) Human Tagged ORF Clone

## **Product data:**

**Product Type:** Expression Plasmids

Product Name: Kallikrein 8 (KLK8) (NM\_144505) Human Tagged ORF Clone

Tag: Myc-DDK
Symbol: Kallikrein 8

Synonyms: HNP; NP; NRPN; PRSS19; TADG14

Mammalian Cell Neomycin

Selection:

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

ORF Nucleotide >RC221010 representing NM\_144505

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

 ${\tt TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC}$ 

GCCGCGATCGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC221010 representing NM\_144505

Red=Cloning site Green=Tags(s)

MGRPRPRAAKTWMFLLLLGGAWAACGSLDLLTKLYAENLPCVHLNPQWPSQPSHCPRGWRSNPLPPAAGH SRAQEDKVLGGHECQPHSQPWQAALFQGQQLLCGGVLVGGNWVLTAAHCKKPKYTVRLGDHSLQNKDGPE QEIPVVQSIPHPCYNSSDVEDHNHDLMLLQLRDQASLGSKVKPISLADHCTQPGQKCTVSGWGTVTSPRE NFPDTLNCAEVKIFPQKKCEDAYPGQITDGMVCAGSSKGADTCQGDSGGPLVCDGALQGITSWGSDPCGR SDKPGVYTNICRYLDWIKKIIGSKG

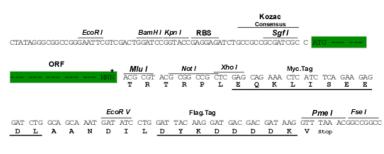
TRTRPLEOKLISEEDLAANDILDYKDDDDKV

Chromatograms: <a href="https://cdn.origene.com/chromatograms/mk8050">https://cdn.origene.com/chromatograms/mk8050</a> h10.zip

**Restriction Sites:** Sgfl-Mlul

**Cloning Scheme:** 





<sup>\*</sup> The last codon before the Stop codon of the ORF

**ACCN:** NM\_144505

**ORF Size:** 915 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with

0.22um filter is required.

**RefSeq:** <u>NM 144505.3</u>

 RefSeq Size:
 1148 bp

 RefSeq ORF:
 918 bp

 Locus ID:
 11202

 UniProt ID:
 060259

 Cytogenetics:
 19q13.41

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

MW: 32.8 kDa

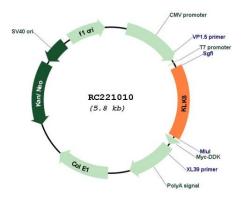
**Gene Summary:** Kallikreins are a subgroup of serine proteases having diverse physiological functions. Growing

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 tandem in a gene cluster on chromosome 19. The encoded protein may be involved in proteolytic cascade in the skin and may serve as a biomarker for ovarian cancer. Alternate splicing of this gene results in multiple transcript

variants encoding different isoforms. [provided by RefSeq, Jul 2013]

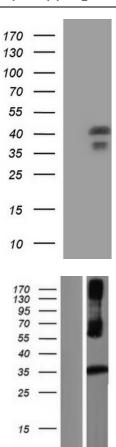


## **Product images:**



Circular map for RC221010





HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY KLK8 (Cat# RC221010, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-KLK8(Cat# [TA590404]). Positive lysates [LY430111] (100ug) and [LC430111] (20ug) can be purchased separately from OriGene.

Western blot validation of overexpression lysate (Cat# [LY408269]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC221010 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).