

# **Product datasheet for RC236159**

### OriGene Technologies, Inc.

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## Kallikrein 4 (KLK4) (NM\_001302961) Human Tagged ORF Clone

#### **Product data:**

**Product Type:** Expression Plasmids

Product Name: Kallikrein 4 (KLK4) (NM\_001302961) Human Tagged ORF Clone

Tag: Myc-DDK
Symbol: Kallikrein 4

Synonyms: AI2A1; ARM1; EMSP; EMSP1; kallikrein; KLK-L1; PRSS17; PSTS

Mammalian Cell

Selection:

Neomycin

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

ORF Nucleotide >RC236159 representing NM\_001302961
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGTGGAGGCCAGCCTCTCCGTACGGCACCCAGAGTACAACAGACCCTTGCTCGCTAACGACCTCATGC
TCATCAAGTTGGACGAATCCGTGTCCGAGTCTGACACCATCCGGAGCATCAGCATTGCTTCGCAGTGCCC
TACCGCGGGGAACTCTTGCCTCGTTTCTGGCTGGGGTCTGCTGGCGAACGGCAGAATGCCTACCGTGCTG
CAGTGCGTGAACGTGTCGGTGGTGTCTGAGGAGGTCTGCAGTAAGCTCTATGACCCGCTGTACCACCCCA
GCATGTTCTGCGCCGGCGGAGGGCAAGACCAGAAGGACTCCTGCAACGGTGACTCTGGGGGGCCCCTGAT
CTGCAACGGGTACTTGCAGGGCCTTGTGTCTTTCGGAAAAGCCCCGTGTGGCCAAGTTGGCGTGCCAGGT
GTCTACACCAACCTCTGCAAATTCACTGAGTGGATAGAGAAAACCGTCCAGGCCAGT

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**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC236159 representing NM\_001302961

Red=Cloning site Green=Tags(s)

MVEASLSVRHPEYNRPLLANDLMLIKLDESVSESDTIRSISIASQCPTAGNSCLVSGWGLLANGRMPTVLQCVNVSVVSEEVCSKLYDPLYHPSMFCAGGGQDQKDSCNGDSGGPLICNGYLQGLVSFGKAPCGQVGVPG

VYTNLCKFTEWIEKTVQAS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

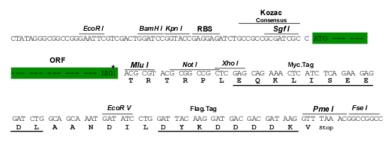
**Restriction Sites:** Sgfl-Mlul





#### **Cloning Scheme:**





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

ACCN: NM\_001302961

ORF Size: 477 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 001302961.1</u>, <u>NP 001289890.1</u>

RefSeq Size: 1359 bp RefSeq ORF: 480 bp Locus ID: 9622



**UniProt ID:** Q9Y5K2 Cytogenetics: 19q13.41

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

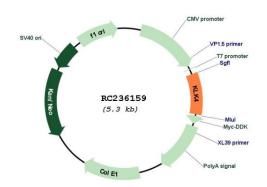
MW: 17.4 kDa

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

> 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 some tissues its expression is hormonally regulated. The expression pattern of a similar mouse protein in murine developing teeth supports a role for the protein in the degradation of enamel proteins. Several transcript variants encoding different proteins have been found for this

gene. [provided by RefSeq, Dec 2014]

## **Product images:**



Circular map for RC236159