

## Product datasheet for MR203395

### Klk1 (NM\_010639) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Klk1 (NM_010639) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Klk1
Synonyms:	0610007D04Rik; Kal; KAL-B; Klk; Klk1b6; Klk6; mGk-6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203395 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGGTTCTGATCCTGTTCTAGCCCTGTCCCTAGGAGGGATTGATGCTGCACCTCCTGTCCAGTCTC  
GAATTGTTGGAGGATTTAACTGTGAGAAGAATCCAGCCCTGGCAAGTGGCTGTGTACCGCTTACCCAA  
ATATCAATGTGGGGTATCCTGCTGAACGCCAACTGGGTCTCACAGCTGCCACTGCCATAATGACAAG  
TACCAGGTGTGGCTGGGCAAAAACAACCTTTTGGAGGATGAACCCTCTGCCAACACCGGCTTGTACGCA  
AAGCCATCCCTCACCCCTGACTTCAACATGAGCCTCCTGAATGAGCACACCCACAACCTGAGGATGACTA  
CAGCAATGACCTGATGCTGCTCCGCCTCAAAAAGCCTGCTGACATCACAGATGTTGTGAAGCCCATCGAC  
CTGCCACTGAGGAGCCCAAGCTGGGGAGCACATGCCTAGCCTCAGGCTGGGGCAGCATTACACCCGTCA  
AATATGAATACCCAGATGAGCTCCAGTGTGTGAACCTCAAGCTCCTGCCTAATGAGGACTGTGCCAAAGC  
CCACATAGAGAAGGTGACAGATGACATGTTGTGTGCAGGAGATATGGATGGAGGCAAGACACTTGTGCG  
GGTGACTCAGGAGGCCACTGATCTGTGATGGTGTCTCCAAGGTATCACATCATGGGGCCCTAGCCCTT  
GCGGTAACCCCAATGTGCCGGTATCTACACCAGATTTAAATTTCAACACCTGGATAAGAGAAACTAT  
GGCTGAAAATGAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR203395 protein sequence  
Red=Cloning site Green=Tags(s)

MRFLILFLALSLGGIDAAPPVQSRIVGGFNCEKNSQPWQVAVYRFTKYQCGGILLNANWVLTAAHCHNDK  
 YQVWLGKNNFLEDEPSAQHRLVSKAIPHPDFNMSLLNEHTPQPEDDYSNDLMLRLKPADITDVVKPID  
 LPTEEPKLGSTCLASGWSITPVKYEYPDELQCVNLKLLPNEDCAKAHIEKVTDDMLCAGDMDGGKDTCA  
 GDSGGPLICDGVLQGITSWGPSPCGKPNVPGIYTRVLNFNNTWIRETMAEND

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**ACCN:** NM\_010639

**ORF Size:** 786 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\\_010639.8](#)

**RefSeq Size:** 876 bp

**RefSeq ORF:** 786 bp

**Locus ID:** 16612

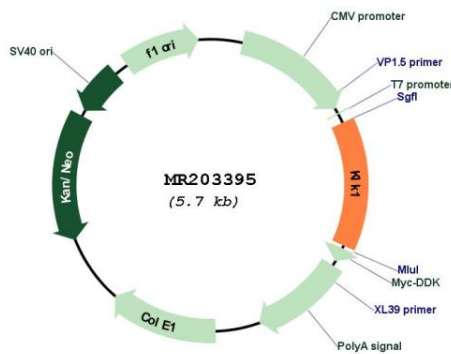
**UniProt ID:** [P15947](#)

**Cytogenetics:** 7 28.74 cM

**MW:** 28.8 kDa

**Gene Summary:** This gene encodes a member of the kallikrein subfamily of serine proteases that are involved in diverse physiological functions such as skin desquamation, tooth enamel formation, seminal liquefaction, synaptic neural plasticity and brain function. The encoded preproprotein undergoes proteolytic cleavage of the activation peptide to generate the functional enzyme. Mice lacking the encoded protein are unable to generate significant levels of kinins in most tissues, develop cardiovascular abnormalities and exhibit hypercalciuria of renal origin. This gene is located in a cluster of several related kallikrein genes on chromosome 7. Alternative splicing results in multiple transcript variants encoding different isoforms, some of which may undergo similar processing. [provided by RefSeq, Feb 2016]

**Product images:**



Circular map for MR203395