

## Product datasheet for **MC204662**

### **Klk1 (NM\_010639) Mouse Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Klk1 (NM\_010639) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Klk1  
**Synonyms:** 0610007D04Rik; Kal; KAL-B; Klk; Klk1b6; Klk6; mGk-6  
**Mammalian Cell Selection:** Neomycin  
**Vector:** PCMV6-Kan/Neo (PCMV6KN)  
**E. coli Selection:** Kanamycin (25 ug/mL)

**Fully Sequenced ORF:** >BC053697  
 GTCCTGGACTCCTGTTACCATGAGGTTCTGATCCTGTTCTAGCCCTGTCCTAGGAGGGATTGATGC  
 TGCACCTCTGTCCAGTCTCGAATTGTTGGAGGATTTAACTGTGAGAAGAATTCCAGCCCTGGCAAGTG  
 GCTGTGTACCGCTTACCAAATATCAATGTGGGGTATCCTGCTGAACGCCAACTGGGTTCTCACAGCTG  
 CCCACTGCCATAATGACAAGTACCAGGTGTGGCTGGGCAAAAACAACCTTTTTGGAGGATGAACCCCTGTC  
 CCAACACCGGCTTGTGAGCAAGCCATCCCTCACCTGACTTCAACATGAGCCTCCTGAATGAGCACACC  
 CCACAACCTGAGGATGACTACAGCAATGACCTGATGCTGCTCCGCCTCAAAAAGCCTGCTGACATCACAG  
 ATGTTGTGAAGCCATCGACCTGCCACTGAGGAGCCCAAGCTGGGGAGCACATGCCTAGCCTCAGGCTG  
 GGGCAGCATTACACCCGTCAAATATGAATACCCAGATGAGCTCCAGTGTGTGAACCTCAAGCTCCTGCCT  
 AATGAGGACTGTGCCAAAGCCACATAGAGAAGGTGACAGATGACATGTTGTGTGCAGGAGATATGGATG  
 GAGGCAAAGACACTTGTGCGGGTACTCAGGAGGCCCACTGATCTGTGATGGTGTCTCCAAGGTATCAC  
 ATCATGGGGCCCTAGCCCTTGCAGTAAACCAATGTGCCGGTATCTACACCAGAGTTTTAAATTTCAAC  
 ACCTGGATAAGAGAACTATGGCTGAAAATGACTGAGTATCACATTGTCCATGTTCTCAATAAAGCCCA  
 CCATGCAGCAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI

**ACCN:** NM\_010639

**Insert Size:** 786 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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).



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**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:** [BC053697](#), [AAH53697](#)

**RefSeq Size:** 871 bp

**RefSeq ORF:** 786 bp

**Locus ID:** 16612

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

**Cytogenetics:** 7 28.74 cM

**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]  
Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).