

Product datasheet for MR203163

Klk7 (NM_011872) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Klk7 (NM_011872) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Klk7
Synonyms:	P; Prss6; SCCE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203163 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGAGTCTGGCTCCTTCCCTGATAACTGTGCTGCTGTCTTTAGCCCTGGAACCGCTGGACAAGGAG
AAAGGATTATAGATGGCTACAAATGTAAGAAGGCTCGCACCCATGGCAGGTGGCTCTGCTCAAAGGCAA
TCAGCTTCACTGTGGAGGGTGTGGTGGACAAACTGGGTGCTCACAGCAGCCCACTGCAAAATGGGT
CAGTACCAAGTACAGCTGGCAGTGATAAAATAGGGGACCAGAGTGCCCAAGATCAAGGCTACAAAGT
CATTCCGGCACCTGGCTACTCCCAAAGACCCACGTCATGACATCATGCTTGTGAGGTTGGATGAGCC
AGTCAAGATGTCATCCAAAGTGGAGGCAGTCCAGCTTCCCTGAACACTGTGAACCCCAAGGACGTCATGT
ACCGTCTCTGGATGGGGCACCACAACCAGCCAGACGTGACCTTCCCTCGGATCTTATGTGCTCGGATG
TGAAGCTCATCTCCTCCAGGGAGTGCAAGAAGGTGTACAAGGACCTGCTGGGAAAACCATGCTGTGTGC
TGGCATTCTGACTCTAAGACCAACACGTGCAATGGTACTCAGGGGGCCCTTGGTGTGCAACGACACC
CTCCAAGTCTGGTGTCTGGGTACCTACCCTTGTGGCCAGCCCAACGACCCAGGCGTCTACACTCAAG
TCTGCAAGTACAAACGGTGGGTGATGGAGACCATGAAAACCCATCGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR203163 protein sequence
Red=Cloning site Green=Tags(s)

MGVWLLSLITVLLSLALETAGQGERIIDGYKCKEGSHPWQVALLKGNQLHCGGVLVDKYWVLTAAHCKMG
 QYVQLGSDKIGDQSAQKIKATKSFHRPGYSTKTHVNDIMLVRLDEPVKMSSKVEAVQLPEHCEPPGTSC
 TVSGWGTTFSPDVTFPSDLMCSVDKLISSRECKVYKDLLGKTMLCAGIPDSKNTNCGDSSGGPLVCNDT
 LQGLVSWGTYPCGQPNDPGVYTVQCKYKRWVMTMKTHR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_011872

ORF Size: 750 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_011872.3](#)

RefSeq Size: 1745 bp

RefSeq ORF: 750 bp

Locus ID: 23993

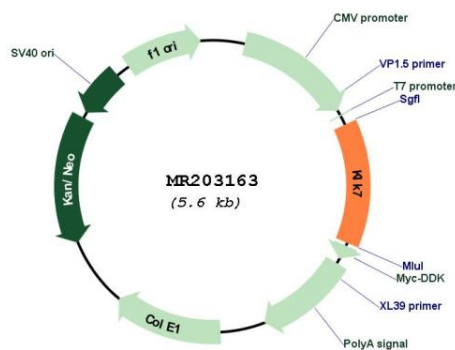
UniProt ID: [Q91VE3](#)

Cytogenetics: 7 28.27 cM

MW: 27.3 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. This gene is located in a cluster of several related kallikrein genes on chromosome 7. [provided by RefSeq, May 2016]

Product images:



Circular map for MR203163