

Product datasheet for **MR219042**

Klk1b24 (NM_010643) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	Klk1b24
Synonyms:	Klk2; Klk24; mGk-24
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >MR219042 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGTGGTTCCTGATCCTGTTCCCTAGCCCTGTCCCTAGGAGGGATTGATGCTGCACCTCCTGTCCAGTCTC
GTGTGGTTGGAGGATTCAAATGTGAGAAGAATCCCAACCCTGGCATGTGGCTGTGTTCCGCTACAACAA
ATATATATGCGGGGAGTCCTGTTGAACCCCACTGGGTTCTCACAGCTGCCCACTGCTATGGCAATGCC
ACCAGCCAGTATAATGTTTGGCTGGGCAAAACAAGCTATTCCAACGTGAACCTCTGCTCAGCACCGAT
GGGTACAGCAAAAGCTTCCCTCACCTGACTACAACATGAGCCTCCTGAATGATGACATCCCGCAACCTAA
GGACAAGAGCAATGACCTGATGCTGCTCCGTCTCAGCGAGCCTGCTGACATCACAGATGCTGTGAAGCCC
ATCGACCTGCCCCTGAGGAGCCCAAGCTGGGGAGCACATGCCTAGCCTCAGGCTGGGGCAGCATTACAC
CCACGAAATGGCAAAAGCCAAATGACCTTCAGTGTGTGTTTCATCAAGCTCCTGCCCAATGAGAACTGTAC
CAAACCTACTTACATAAAGTACAGATGTCATGCTGTGTGTCAGGAGAGATGGGTGGAGGCAAAAGACACT
TGTGCGGGTGACTCAGGAGGCCCACTGATCTGTGATGGTATTCTCCACGGTATCACATCATGGGGTCTGT
TCCCATGTGGTAAACCAATGCGCCGCCATCTACACCAAATTATTAAGTTTGCCTCCTGGATAAAAGA
CACTATGGCCAAAACCCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence:

>MR219042 protein sequence
 Red=Cloning site Green=Tags(s)

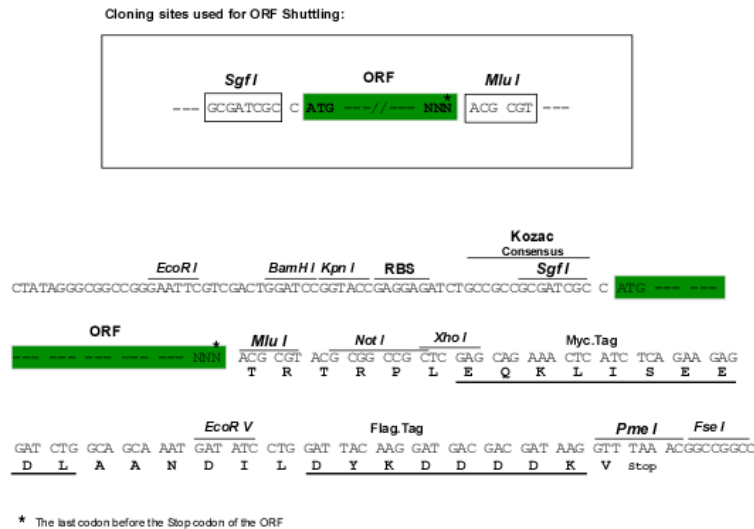
MWFLILFLALSLGGIDAAPPVQSRVVGFKCEKNSQPHVAVFRYNYICGGVLLNPNWVLTAAHCYGNA
 TSQYNVWLGNKLFQREPSAQHRWVSKSFPHPDYNMSLLNDDIPQPKDKSNDLMLRLSEPADITDAVKP
 IDLPTEEPKLGSTCLASGWSITPTKWQKPNDLQCVFIKLLPNENCTKPYLHKVTDVMLCAGEMGGGKDT
 CAGDSGGPLICDGILHGITSWGPVPCGKPNAPAIYTKLIKFAWIKDTMAKNP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_010643

ORF Size:

789 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:

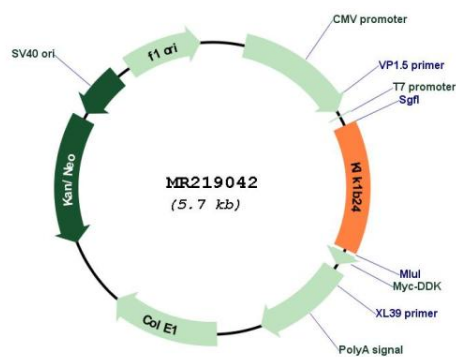
This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_010643.2, NP_034773.1</u>
RefSeq Size:	872 bp
RefSeq ORF:	792 bp
Locus ID:	16617
UniProt ID:	<u>Q61754</u>
Cytogenetics:	7 28.7 cM
MW:	28.9 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, Feb 2016]

Product images:



Circular map for MR219042