

Product datasheet for **MR209674**

Klkb1 (NM_008455) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Klkb1 (NM_008455) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Klkb1
Synonyms:	APS; Ka; Kal; Kal-3; Kal3; Klk; Klk3; PSA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>MR209674 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATTTTATTCAACCGAGTGGGTTATTTTGTTCCTTGTGGTACCCTCTCTGTGGGTGTATGACTC
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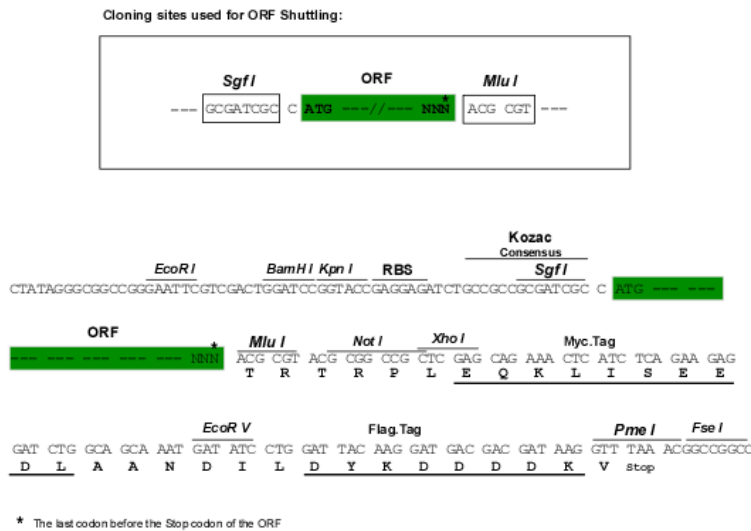
Protein Sequence: >MR209674 protein sequence
Red=Cloning site Green=Tags(s)

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MILFNRVGYFVSLFATVSCGCM TQLYKNTFFRGGDLAAIYTPDAQYCQKMCTFHPRCLLFSFLAVTPPKE
TNKRFGCFMKESITGTLPRIHRTGAISGHSLKQCGHQISACHRDIYKGLDMRGSNFNISKTDNIEECQKL
CTNNFHCQFFTYATSAFYRPEYRKKCLLKHSASGTP TSIKSADNLVSGFSLKSCALSEIGCPMDIFQHSA
FADLNVSQVITPD AFVCR TICTFHPNCLFFTFY TNEWETESQRNVCF LKTSKSGRPSPPIPQENAI SGYS
LLTCRKTRPEPCHSKIYSGVDFEGEELN VTFVQGADV CQETCTKTIRCQFFIYSLLPQDCKEEGCKSLR
LSTDGSPTRITYGMQGSSGYSRLRCLKLVDPDCTTKINARIVGGTNASLGEWPWQVSLQVKLVSQTHL CG
GSIIGRQWVLTAAHCFDGI PYPDVWRIYGGILSLSEITKETPSSRIKELIIHQEYK VSEGNYDIALIKLQ
TPLNYTEFQKPICLPSKADTNTIY TNCWVTGWG YTKEQGETQNILQKAT IPLVPNEECQKKYRDYVINKQ
MICAGYKEGGTDACKGDSGGPLVCKHSGRWQL VGITSWGEGCARKDQPGVYTKVSEYMDWILEKTQSSDV
RALETSSA
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TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_008455

ORF Size: 1917 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_008455.3](#)

RefSeq Size: 2472 bp

RefSeq ORF: 1917 bp

Locus ID: 16621

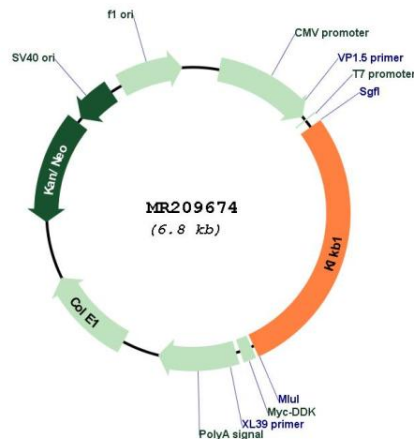
UniProt ID: [P26262](#)

Cytogenetics: 8 25.17 cM

MW: 71.4 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 processing to generate a disulfide-linked heterodimeric enzyme comprised of heavy and light chains. A complete deletion of the encoded protein prevents occlusive thrombus formation in mice with a minimal role in provoked bleeding. [provided by RefSeq, May 2016]

Product images:



Circular map for MR209674