

Product datasheet for **MG209674**

Klkb1 (NM_008455) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Klkb1 (NM_008455) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Klkb1
Synonyms:	APS; Ka; Kal; Kal-3; Kal3; Klk; Klk3; PSA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209674 representing NM_008455
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATTTTATTCAACCGAGTGGTTATTTTGTTCCTTGTGTTGCTACCGTCTCCTGTGGGTGTATGACTC
 AACTGTATAAAAAATACCTTCTTCAGAGGTGGGATCTAGCTGCCATCTACACCCAGATGCCAGTACTG
 TCAGAAGATGTGCACTTTTCACCCAGGTGCCTGCTGTTTCTCGCCGTACTCCACCCAAAGAG
 ACAAATAAACGGTTTGGTTGCTTCATGAAAGAGAGCATTACAGGGACTTTGCCAAGAATACACCGGACAG
 GGGCCATTTCTGGTCATTCTTTAAAGCAGTGTGGCCATCAAATAAGTGTGGCCAGACATATAACA
 AGGACTTGATATGAGAGGTCCAACCTTAATATCTCTAAGACCGACAATATTGAAGAATGCCAGAAACTG
 TGCACAAATAATTTTCACTGCCAATTTTACATATGCTACAAGTGCATTTTACAGACCAGAGTACCGGA
 AGAAGTGCCTGCTGAAGCACAGTGAAGCGGAACACCCACCAGCATAAAGTCAGCGGACAACCTGGTGTG
 TGGATTCTCACTGAAGTCTGTGCGCTTTCGGAGATAGGTTGCCCATGGATATTTTCCAGCACTCTGCC
 TTTGCAGACCTGAATGTAAGCCAGGTCAACCCCGATGCCTTTGTGTGTCGCACCATCTGCACCTTCC
 ATCCCAACTGCCTTTTCTCACGTTCTACACGAATGAATGGGAGACAGAATCACAGAGAAATGTTTGTTT
 TCTTAAGACGTCTAAAAGTGAAGACCAAGTCCCCCTATTCTCAAGAAAACGCTATATCTGGATATAGT
 CTCCTCACCTGCAGAAAACTCGCCCTGAACCTGCCATTCCAAAATTTACTCTGGAGTTGACTTTGAAG
 GGAAGAAGTGAATGTGACCTTCGTGCAAGGAGCAGATGTCTGCCAAGAGACTTGTACAAAGACAATCCG
 CTGCCAGTTTTTTATTTACTCTTACTCCCCAAGACTGCAAGGAGGAGGGGTGTAATGTTCTTAAGG
 TTATCCACAGATGGCTCCCCAACTAGGATCACCTATGGCATGCAGGGAGCTCCGGTTATCTCTGAGAT
 TGTGTAACCTTGTGGACAGCCCTGACTGTACAACAAAAATAAATGCACGATTGTGGGAGGAACAAACGC
 TTCTTTAGGGGAGTGGCCATGGCAGGTGACGCTGCAAGTGAAGCTGGTATCTCAGACCCATTTGTGTGGA
 GGGTCCATCATTGGTCGCAATGGTACTGACAGCTGCCATTGCTTTGATGGAATTCCTATCCAGATG
 TGTGGCGTATATATGGCGGAATCTTAGTCTGTCCGAGATTACGAAAGAAACGCCTTCTCGAGAATAAA
 GGAGCTTATTATTCATCAGGAATACAAAGTCTCAGAAGGCAATTATGATATTGCCTTAATAAAGCTTCAG
 ACGCCCTGAATTATACTGAATTCAAAAACCAATATGCCTGCCTTCCAAAGCTGACACAAATACAATTT
 ATACCAACTGTTGGGTGACTGGATGGGGCTACACGAAGGAACAAGGTGAAACGCAAAATATTCTACAAA
 GGCTACTATTCTTTGGTACCAATGAAGAATGCCAGAAAAAATACAGAGATTATGTTATAAACAAGCAG
 ATGATCTGTGCTGCTACAAAGAAGCGGAACAGACGCTTGTAAAGGAGATTCCGGTGGCCCTTAGTCT
 GTAACACAGTGGACGGTGGCAGTTGGTGGGTATCACCAGCTGGGGTGAAGGCTGCGCCCGCAAGGACCA
 ACCAGGAGTCTACACCAAGTTTCTGAGTACATGGACTGGATATTGGAGAAGACACAGAGCAGTGATGTA
 AGAGCTCTGGAGACATCTTCAGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG209674 representing NM_008455
 Red=Cloning site Green=Tags(s)

MILFNRVGYFVSLFATVSCGCMTQLYKNTFFRGGDLAAIYTPDAQYQCQKMCTFHPRCLLFSFLAVTPPKE
 TNKRFGCFMKESITGTLPRIHRTGAISGHSLKQCGHQISACHRDYKGLDMRGSNFNISKTDNIEECQKL
 CTNMFHCQFFTYATSAFYRPEYRKKCLLKHSASGTPTSIKSADNLVSGFSLKSCALSEIGCPMDIFQHSA
 FADLNVSQVITPDAFVCRITICTFHPNCLFFTFYTNWEWETESQRNVCFLLKTSKSGRSPPIPQENAI
 SGYSLLTCRKRPEPCHSKIYSGVDFEAGEELNVTFVQGADVQETCTKTIRCQFFIYSLLPQDCKEEGCK
 CSLRLSTDGSPTRITYGMQSSGYSRLRCLKLVDPDCTTKINARIVGGTNASLGEWPWQVSLQVKLV
 SQTHLQGSIIIGRQWVLTAAHCFDGIYPYDVPVWRIYGGILSLSEITKETPSSRIKELIIHQEYK
 VSEGNFYDIALIKLQTPLNYTEFQKPICLPSKADTNTIYTNWVWTGWYTKQGETQNILQKAT
 IPLVPNEECQKKYRDYVINKQMICAGYKEGGTDACKGDSGGPLVCKHSGRWQLV
 GITSWGEKARKDQPGVYTKVSEYMDWILEKTQSSDVRALLETSSA

TRTRPLE - GFP Tag - V

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:	<ol style="list-style-type: none">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:	2753 bp
RefSeq ORF:	1917 bp
Locus ID:	16621
UniProt ID:	P26262
Cytogenetics:	8 25.17 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 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]