

Product datasheet for **RG202146**

Kallikrein 6 (KLK6) (NM_001012964) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kallikrein 6 (KLK6) (NM_001012964) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Kallikrein 6
Synonyms:	Bssp; hK6; Klk7; PRSS9; PRSS18; SP59
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG202146 representing NM_001012964 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAAGAAGCTGATGGTGGTGCTGAGTCTGATTGCTGCAGCCTGGGCAGAGGAGCAGAATAAGTTGGTGC
 ATGGCGGACCCTGCGACAAGACATCTACCCCTACCAAGCTGCCCTCTACACCTCGGGCCACTTGCTCTG
 TGGTGGGGTCCTTATCCATCCACTGTGGGTCTCACAGCTGCCACTGCAAAAAACCGAATCTTCAGGTC
 TTCCTGGGGAAGCATAACCTTCGGCAAAGGGAGAGTTCAGGAGCAGAGTTCTGTTGCCGGGCTGTGA
 TCCACCCTGACTATGATGCCGCCAGCCATGACCAGGACATCATGCTGTTGCGCCTGGCACGCCAGCCAA
 ACTCTCTGAACCTATCCAGCCCCTTCCCCTGGAGAGGGACTGCTCAGCCAACACCACAGCTGCCACATC
 CTGGGCTGGGGCAAGACAGCAGATGGTGATTTCCCTGACACCATCCAGTGTGCATACATCCACCTGGTGT
 CCCGTGAGGAGTGTGAGCATGCCTACCCTGGCCAGATCAGCCAGAACATGTTGTGTGCTGGGGATGAGAA
 GTACGGGAAGGATTCTGCCAGGGTGATTCTGGGGTCCGCTGGTATGTGGAGACCACCTCCGAGGCCTT
 GTGTCATGGGGTAACATCCCCTGTGGATCAAAGGAGAAGCCAGGAGTCTACACCAACGTCTGCAGATACA
 CGAACTGGATCCAAAAACCATTCAGGCCAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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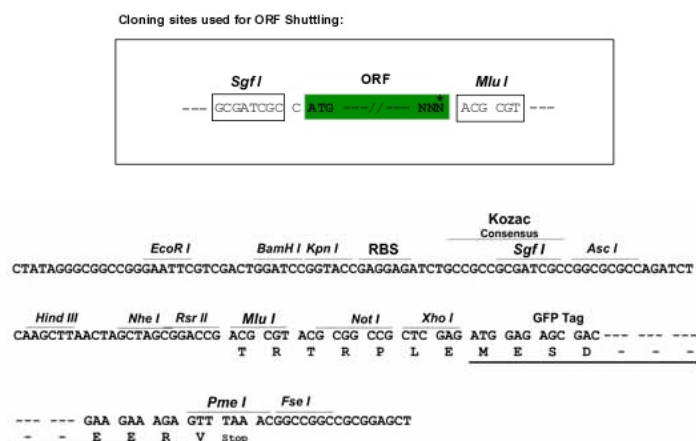
Protein Sequence: >RG202146 representing NM_001012964
 Red=Cloning site Green=Tags(s)

MKKLMVVLSLIAAAWAEENKL VHGGPCDKT SHPYQAAL YTSGLLCGGVL IHPLWVLTAAHCKKPNLQV
 FLGKHNL RQRESSQE QSSVVRV IHPDYDAASHDQDIMLLRLARPAKLS ELIQPLERDCSANTTSCHI
 LGWGKTADGDFPDTIQ CAYIHLVSREECHAYPGQITQNM L CAGDEKYGK DSCQDSSGGLVCGDHLRGL
 VSWGNI PCGSKEKPGVYTNVCRYTNW IQKTIQAK

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001012964

ORF Size: 732 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_001012964.2](#)

RefSeq Size: 1527 bp

RefSeq ORF: 735 bp

Locus ID: 5653

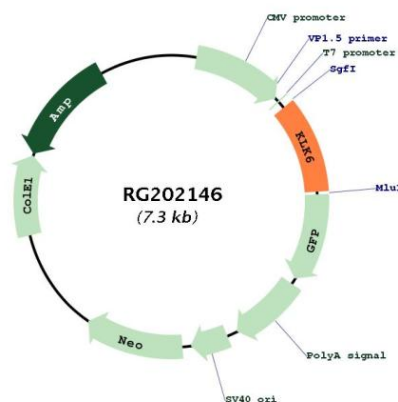
UniProt ID: [Q92876](#)

Cytogenetics: 19q13.41

Protein Families: Druggable Genome, Protease, Secreted Protein

Gene Summary: This gene encodes a member of the kallikrein subfamily of the peptidase S1 family of serine proteases. Growing evidence suggests that many kallikreins are implicated in carcinogenesis and some have potential as novel cancer and other disease biomarkers. The encoded preproprotein is proteolytically processed to generate the mature protease. Expression of this protease is regulated by steroid hormones and may be elevated in multiple human cancers and in serum from psoriasis patients. The encoded protease may participate in the cleavage of amyloid precursor protein and alpha-synuclein, thus implicating this protease in Alzheimer's and Parkinson's disease, respectively. This gene is located in a gene cluster on chromosome 19. Alternative splicing results in multiple transcript variants, at least one of which encodes an isoform that is proteolytically processed. [provided by RefSeq, Feb 2016]

Product images:



Circular map for RG202146