

Product datasheet for **RG212547**

Kallikrein 11 (KLK11) (NM_144947) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kallikrein 11 (KLK11) (NM_144947) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KLK11
Synonyms:	PRSS20; TLSP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG212547 representing NM_144947 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAGAGTTGAGGTGGCTGCGGGACTGGAAGTCATCGGGCAGAGGTCTCACAGCAGCCAAGGAACCTG
GGGCCCCGCTCCTCCCCCTCCAGGCCATGAGGATTCTGCAGTTAATCCTGCTTGCTGGCAACAGGGCT
TGTAGGGGAGAGACCAGGATCATCAAGGGTTCGAGTGAAGCCTCACTCCAGCCCTGGCAGGCAGCC
CTGTTGAGAAGACGCGCTACTCTGTGGGGCAGCCTCATCGCCCCAGATGGCTCCTGACAGCAGCCC
ACTGCCTCAAGCCCCGTACATAGTTCACCTGGGGCAGCACAACTCCAGAAGGAGGAGGGCTGTGAGCA
GACCCGGACAGCCACTGAGTCCTCCCCACCCCGGCTTCAACAACAGCCTCCCCAACAAAGACCACCGC
AATGACATCATGCTGGTGAAGATGGCATCGCCAGTCTCCATCACCTGGGCTGTGCGACCCCTCACCCCT
CCTCACGCTGTGCTACTGCTGGCACCAGCTGCCTCATTCCGGCTGGGGCAGCAGTCCAGCCCCAGTT
ACGCTGCCTCACACCTTGCGATGCGCCAACATCACCATCATTGAGCACCAGAAGTGTGAGAACGCCTAC
CCCGGCAACATCACAGACACCATGGTGTGTGCCAGCGTGCAGGAAGGGGGCAAGGACTCCTGCCAGGGTG
ACTCCGGGGCCCTCTGGTCTGTAACAGTCTCTCAAGGCATTATCTCCTGGGGCCAGGATCCGTGTGC
GATCACCCGAAAGCCTGGTGTCTACACGAAAGTCTGCAAAATATGTGGACTGGATCCAGGAGACGATGAAG
AACAAAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG212547 representing NM_144947
 Red=Cloning site Green=Tags(s)

MQRLRWLRDWKSSGRGLTAAKEPGARSSPLQAMRILQLILLALATGLVGGETRIIKGFECKPHSQPWQAA
 LFEKTRLLCGATLIAPRWLLTAAHCLKPRYIVHLGQHNLQKEEGCEQTRTATESFPHPGFNNSLPNKDHR
 NDIMLVKMASPVSIWAVRPLTLSSRCVTAGTSCGISGWGSTSSPQLRPLPHTLRCANITIEHQKCNENY
 PGNITDTMVCASVQEGGKDSQCQDSSGGPLVCNQSLQGIISWGDPCAITRKPQVYTKVCKYVDWIQETMK
 NN

TRTRPLE - GFP Tag - V

Restriction Sites:

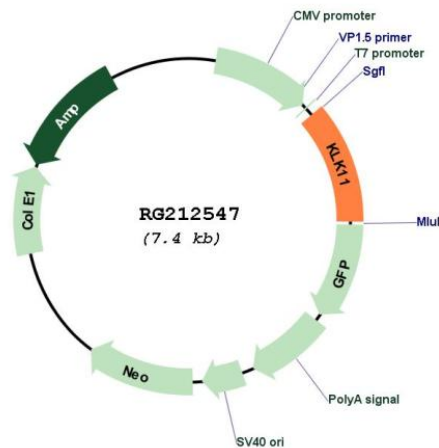
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_144947

ORF Size: 846 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:	<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_144947.3
RefSeq Size:	1289 bp
RefSeq ORF:	849 bp
Locus ID:	11012
UniProt ID:	Q9UBX7
Cytogenetics:	19q13.41
Protein Families:	Druggable Genome, Protease, Secreted Protein
Gene Summary:	Kallikreins are a subgroup of serine proteases having diverse physiological functions. Growing evidence suggests that many kallikreins are implicated in carcinogenesis and some have potential as novel cancer and other disease biomarkers. This gene is one of the fifteen kallikrein subfamily members located in a cluster on chromosome 19. Alternate splicing and the use of alternate promoters results in multiple transcript variants encoding distinct isoforms which are differentially expressed. [provided by RefSeq, Dec 2016]