

Product datasheet for **RG213930**

Kallikrein 7 (KLK7) (NM_139277) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kallikrein 7 (KLK7) (NM_139277) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KLK7
Synonyms:	hK7; PRSS6; SCCE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG213930 representing NM_139277 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAAGATCCCTTCTCCTGCCCTGCAGATCTTACTGCTATCCTTAGCCTTGAAACTGCAGGAGAAG
AAGCCCAGGGTGACAAGATTATTGATGGCGCCCATGTGCAAGAGGCTCCACCCATGGCAGGTGGCCCT
GCTCAGTGGCAATCAGCTCCACTGCGGAGGCGTCTGGTCAATGAGCGCTGGGTGCTCACTGCCGCCAC
TGCAAGATGAATGAGTACACCGTGCACCTGGGCAGTGATACGCTGGGCGACAGGAGAGCTCAGAGGATCA
AGGCCTCGAAGTCATTCCGCCACCCGGCTACTCCACACAGCCCATGTTAATGACCTCATGCTCGTGAA
GCTCAATAGCCAGGCCAGGCTGTATCCATGGTGAAGAAAGTCAGGCTGCCCTCCCGCTGCGAACCCCT
GGAACCACCTGTACTGTCTCCGGCTGGGCACTACCACGAGCCAGATGTGACCTTTCCCTCTGACCTCA
TGTGCGTGGATGTCAAGCTCATCTCCCCCAGGACTGCACGAAGTTTACAAGGACTTACTGGAAAATTC
CATGCTGTGCGTGGCATCCCCGACTCCAAGAAAAACGCCTGCAATGGTGACTCAGGGGGACCGTTGGTG
TGCAGAGGTACCTGCAAGGTCTGGTGTCTGGGAACTTTCCCTTGGCGCAACCCAATGACCCAGGAG
TCTACACTCAAGTGTGCAAGTTCACCAAGTGGATAAATGACACCATGAAAAGCATCGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG213930 representing NM_139277
 Red=Cloning site Green=Tags(s)

MARSLLLPLQILLLSLALETAGEEAQGDKIIDGAPCARGSHPWQVALLSGNQLHCGGVLVNERWVLTAAH
 CKMNEYTVHLGSDTLGDRRAQRIKASKSFRHPGYSTQTHVNDLMLVKLNSQARLSSMVKKVRLPSRCEPP
 GTTCTVSGWGTTTSPDVTFPSDLMCVDVKLISPQDCTKVYKDLLENSMLCAGIPDSKKNACNGDSSGGLV
 CRGTLQGLVSWGTFPCGQPNDPGVYTTQVCKFTKWINDTMKKHR

TRTRPLE - GFP Tag - V

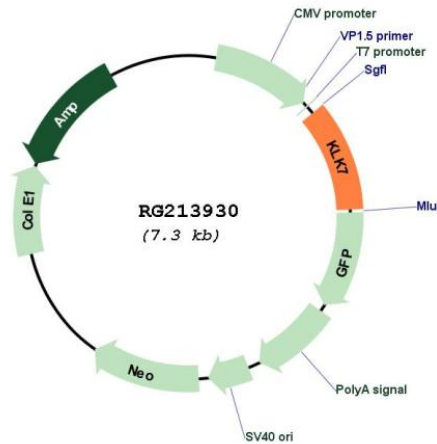
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_139277

ORF Size: 759 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_139277.2 , NP_644806.1
RefSeq Size:	1927 bp
RefSeq ORF:	762 bp
Locus ID:	5650
UniProt ID:	P49862
Cytogenetics:	19q13.41
Protein Families:	Druggable Genome, Secreted Protein
Gene Summary:	This gene encodes a member of the kallikrein subfamily of serine proteases. These enzymes have diverse physiological functions and many kallikrein genes are biomarkers for cancer. The encoded protein has chymotrypsin-like activity and plays a role in the proteolysis of intercellular cohesive structures that precedes desquamation, the shedding of the outermost layer of the epidermis. The encoded protein may play a role in cancer invasion and metastasis, and increased expression of this gene is associated with unfavorable prognosis and progression of several types of cancer. Polymorphisms in this gene may play a role in the development of atopic dermatitis. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene, which is one of fifteen kallikrein subfamily members located in a gene cluster on chromosome 19. [provided by RefSeq, May 2011]