

## Product datasheet for **RG202744**

### Kallikrein 1 (KLK1) (NM\_002257) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Kallikrein 1 (KLK1) (NM_002257) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Kallikrein 1
Synonyms:	hK1; Klk6; KLKR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG202744 representing NM_002257 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTGGTTCCTGGTCTGTGCCTCGCCCTGTCCCTGGGGGGACTGGTGTGCGCCCCGATTCAGTCCC  
GGATTGTGGGAGGCTGGGAGTGTGAGCAGCATTCCAGCCCTGGCAGGCGGCTCTGTACCATTTAGCAC  
TTTCCAGTGTGGGGCATCCTGGTGCACCGCCAGTGGGTGCTCACAGCTGCTCATTGCATCAGCGACAAT  
TACCAGCTCTGGCTGGTGCACCAACTGTTTGACGACGAAAACACAGCCAGTTTGTTCATGTCAGTG  
AGAGCTTCCCACACCCTGGCTTCAACATGAGCCTCCTGGAGAACCACCCGCCAAGCAGACGAGGACTA  
CAGCCACGACCTCATGCTGCTCCGCTGACAGAGCCTGCTGATACCATCACAGACGCTGTGAAGGTCGTG  
GAGTTGCCACCCAGGAACCCGAAGTGGGGAGCACCTGTTTGGCTTCCGGCTGGGGCAGCATCGAACCCAG  
AGAATTTCTCATTTCAGATGATCTCCAGTGTGTGGACCTCAAAATCCTGCCTAATGATGAGTGCAAAA  
AGTCCACGTCCAGAAGGTGACAGACTTCATGCTGTGTGTCGGACACCTGGAAGGTGGCAAAGACACCTGT  
GTGGGTGATTCAGGGGGCCGCTGATGTGTGATGGTGTGCTCCAAGGTGTACATCATGGGGCTACGTCC  
CTTGTGGCACCCCAATAAGCCTTCTGTCGCCGTGAGTGTGCTTATGTGAAGTGGATCGAGGACAC  
CATAGCGGAGAACTCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG202744 representing NM\_002257  
 Red=Cloning site Green=Tags(s)

MWFLVLCALSLGGTGAAPPIQSRIVGGWECEQHSQPWQAALYHFSTFQCGGILVHRQWVLTAAHCISDN  
 YQLWLRHNLFDENTAQFVHVSESFPHPGFNMSLLENHTRQADEDYSHDLMLLRLTEPADTITDAVKVV  
 ELPTQEPEVGSTCLASGWSIEPENFSFPDDLQCVDLKILPNDECKKVHVQKVTDFMLCVGHLEGGKDTG  
 VGDSGGPLMCDGVLQGVTSWGYVPCGTPNKPSSAVRVLVSVVKWIEDTIAENS

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_002257

**ORF Size:** 786 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\\_002257.2](#), [NP\\_002248.1](#)

**RefSeq Size:** 874 bp

**RefSeq ORF:** 789 bp

**Locus ID:** 3816

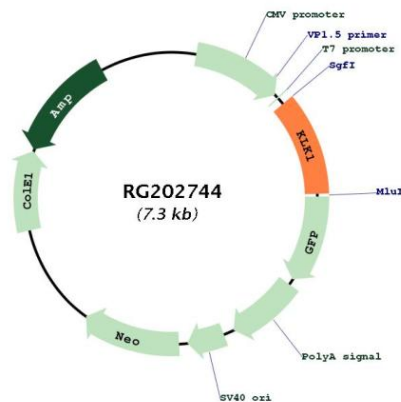
**UniProt ID:** [P06870](#)

**Cytogenetics:** 19q13.33

**Protein Families:** Druggable Genome, Protease

**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. This protein is functionally conserved in its capacity to release the vasoactive peptide, Lys-bradykinin, from low molecular weight kininogen. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RG202744