

## Product datasheet for **RG224554**

### Kallikrein 5 (KLK5) (NM\_012427) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Kallikrein 5 (KLK5) (NM_012427) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Kallikrein 5
Synonyms:	KLK-L2; KLKL2; SCTE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG224554 representing NM_012427 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTACAGCAAGACCCCTGGATGTGGTGCTCTGTGCTCTGATCACAGCCTTGCTTCTGGGGTCA  
CAGAGCATGTTCTCGCAACAATGATGTTTCTGTGACCACCCCTCTAACACCGTGCCCTCTGGGAGCAA  
CCAGGACCTGGGAGCTGGGGCCGGGAAGACGCCCGTCCGGATGACAGCAGCAGCCGCATCATCAATGGA  
TCCGACTGCGATATGCACACCCAGCCGTGGCAGCCGCGCTGTTGCTAAGGCCAACAGCTCTACTGCC  
GGCGGTGTTGGTGCATCCACAGTGGTCTCACGGCCGCCACTGCAGGAAGAAAGTTTTTCAGAGTCCG  
TCTCGGCCACTACTCCCTGTACCAGTTTATGAATCTGGGCAGCAGATGTTCCAGGGGTCAAATCCATC  
CCCCACCTGGCTACTCCACCTGGCCACTCTAACGACCTCATGCTCATCAAATGAACAGAAGAATTC  
GTCCCACTAAAGATGTCAGACCCATCAACGTCTCCTCTCATTGTCCCTCTGCTGGGACAAAGTGCTTGGT  
GTCTGGCTGGGGACAACCAAGAGCCCCAAGTGCACCTCCCTAAGGTCTCCAGTGCTTGAATATCAGC  
GTGCTAAGTCAGAAAAGGTGCGAGGATGTTACCCGAGACAGATAGATGACACCATGTTCTGCGCCGGTG  
ACAAAGCAGGTAGAGACTCCTGCCAGGGTATTCTGGGGGCTGTGGTCTGCAATGGCTCCCTGCAGGG  
ACTCGTGTCTGGGAGATTACCCTGTGCCCGGCCAACAGACCCGGGTGTCTACACGAACCTCTGCAAG  
TTCACCAAGTGGATCCAGGAAACCATCCAGGCCAACTCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG224554 representing NM\_012427  
 Red=Cloning site Green=Tags(s)

MATARPPMWWL CALITALLLVTEHVL ANNDVSCDHPSNTVP SSGSNQDLGAGAGEDARSDDSSSR IING  
 SDCDMHTQPWQAALLLRPNQL YCGAVL VHPQWLLTAAHCRK KVFVRVRLGHYSLS PVYVESGQMFQGVKSI  
 PHPGYSHPGHSNDLMLIKL NRRIRPTKDV RPINVS SHCPSAGTKCLVSGWGTTKSPQVHF PKVLQCLNIS  
 VLSQKRCE DAYPRQIDDTMFCAGDKAGR DSCQGD SGGPVV CNGSLQGLVSWGDYPCARPNRPGVYTNLCK  
 FTKWIQETIQANS

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_012427

**ORF Size:** 879 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\\_012427.5](#)

**RefSeq Size:** 1528 bp

**RefSeq ORF:** 882 bp

**Locus ID:** 25818

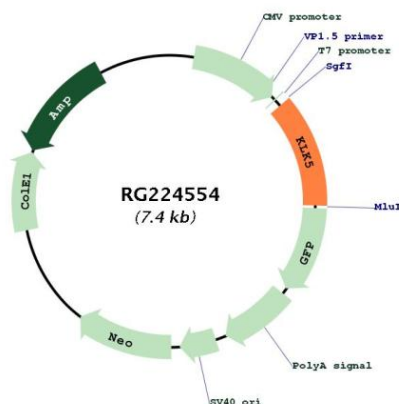
**UniProt ID:** [Q9Y337](#)

**Cytogenetics:** 19q13.41

**Protein Families:** Druggable Genome, Protease, Secreted Protein, Transmembrane

**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. Its expression is up-regulated by estrogens and progestins. The encoded protein is secreted and may be involved in desquamation in the epidermis. Alternative splicing results in multiple transcript variants encoding the same protein. [provided by RefSeq, Jul 2008]

### Product images:



Circular map for RG224554