

Product datasheet for **MG223766**

Klk14 (NM_174866) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Klk14 (NM_174866) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Klk14
Synonyms: GK14
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG223766 representing NM_174866
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTCTTCTACTGATCATACTCCAAGCCTTGGCTGTAGCCATAGCCCAGAGCCAAGGAGATCATAAAA
TTATTGGTGGCTACAGATGTGTCCGGAAGTCCCAGCCATGGCAGGTCGCTCTGCAAGCAGGGCCTGGGCA
TCGCTTCTGTGTGGAGGAGTCTGTTGTGATCAATGGGTCACTACTGCTGCTCATTGTGCCCGCCG
ATTCTTCATGTAGCCCTGGGCAAGCACAAACATAAGAAGGTGGGAAGCGACTCAGCAGGTGGTGCCTGTGG
CCCGCCAGGTGCCACATCCCCAGTATCAACCCAGGCCACGATAATGACCTCATGCTGCTGAAGCTGCA
GAAAAAGGTGCGGCTGGGACGAGCAGTGAAGACCATCTCTGTGGCCAGCTCCTGTGCCAGCCAGGGACT
CCCTGCCGAGTGTGGGCTGGGGAACCATAGCCAGTCCCATTGCCAGGTACCCCACTGCTCTGCAGTGTG
TGAATGTCAACATCATGTGCGGAGCAGGCATGCCATCGAGCCTACCCTGGAATCATAACATCTGGCATGGT
CTGTGCTGGGGTCCCCGAAGGCGGGAAGGACTCCTGTGAGGGTATTCTGGGGACCCCTGGTGTGTGGG
GGACAGCTCCAGGGCCTTGTGTCTGGGAATGGAACGTTGTGCTATGCCTGGCTACCCAGGAGTCTACG
CCAACCTGTGCAATTACCACAGCTGGATCCAGAGGACAATGCAAAGCAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG223766 representing NM_174866
 Red=Cloning site Green=Tags(s)

MFLLLIILQALAVAIASQGDHKKIIGGYRCVRNSQPWQVALQAGPGRFLCGGVLLSDQWVITAAHCARP
 ILHVALGKHNIRWEATQQVVRVARQVPHPOYPQAHDNDMLLKLQKKVRLGRAVKTISVASSCASP
 PCRVSGWTIASPIARYPTALQCVNVNIMSEQACHRAYPGIITSGMVCAGVPEGGKDCSQGDSGGPLVCG
 GQLQGLVSWGMERCAMPGYPGVYANLCNYHSWIQRTMQSN

TRTRPLE - GFP Tag - V

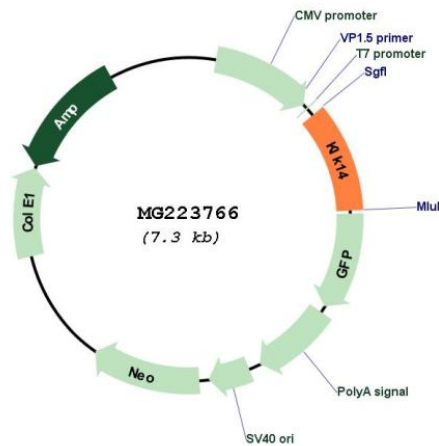
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_174866

ORF Size: 750 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_174866.3](#)

RefSeq Size: 753 bp

RefSeq ORF: 753 bp

Locus ID: 317653

UniProt ID: [Q8CGR5](#)

Cytogenetics: 7 28.26 cM

Gene Summary: This gene encodes a member of the kallikrein subfamily of serine proteases that have diverse physiological functions such as regulation of blood pressure and desquamation. The encoded protein is a precursor that undergoes proteolytic cleavage of the activation peptide to generate the functional enzyme. The encoded enzyme was found to activate the complement pathway by cleavage of C3 to release C3a anaphylotoxin. This gene is one of the several glandular kallikrein genes located in a cluster on chromosome 7. [provided by RefSeq, Aug 2015]