

## Product datasheet for MR223766

### Klk14 (NM\_174866) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Klk14 (NM_174866) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Klk14
Synonyms:	GK14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR223766 representing NM_174866 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTTCTTCTACTGATCATACTCCAAGCCTTGGCTGTAGCCATAGCCCAGAGCCAAGGAGATCATAAAA  
TTATTGGTGGCTACAGATGTGTCCGGAACCTCCAGCCATGGCAGGTCGCTCTGCAAGCAGGGCCTGGGCA  
TCGCTTCTGTGTGGAGGAGTCTGTTGTGATCAATGGGTCACTACTGCTGCTCATTGTGCCCGCCG  
ATCTTCATGTAGCCCTGGGCAAGCACAAACATAAGAAGGTGGGAAGCGACTCAGCAGGTGGTGCCTGTGG  
CCCGCCAGGTGCCACATCCCCAGTATCAACCCAGGCCACGATAATGACCTCATGCTGCTGAAGCTGCA  
GAAAAAGGTGCGGCTGGGACGAGCAGTGAAGACCATCTCTGTGGCCAGCTCCTGTGCCAGCCAGGGACT  
CCCTGCCGAGTGTGCGGCTGGGGAACCATAGCCAGTCCCATTGCCAGGTACCCCACTGCTCTGCAGTGTG  
TGAATGTCAACATCATGTGCGGAGCAGGCATGCCATCGAGCCTACCCTGGAATCATAACATCTGGCATGGT  
CTGTGCTGGGGTCCCCGAAGGCGGGAAGGACTCCTGTGAGGGTATTCTGGGGGACCCCTGGTGTGTGGG  
GGACAGCTCCAGGGCCTTGTGTCTGGGGAATGGAACGTTGTGCTATGCCTGGCTACCCAGGAGTCTACG  
CCAACCTGTGCAATTACCACAGCTGGATCCAGAGGACAATGCAAAGCAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR223766 representing NM\_174866  
Red=Cloning site Green=Tags(s)

MFLLLIILQALAVAIASQGDHKKIIGGYRCVRNSQPWQVALQAGPGHRFLCGGVLLSDQWVITAAHCARP  
 ILHVALGKHNIRWEATQQVVRVARQVPHPOYPQAHNDLMLLKLQKKVRLGRAVKTISVASSCASPQT  
 PCRVSGWTIASPIARYPTALQCVNVNIMSEQACHRAYPGIITSGMVCAGVPEGGKDSQGDSSGGPLVCG  
 GQLQGLVSWGMERCAMPGYPGVYANL CNYHSWIQRTMQSN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9007\\_f02.zip](https://cdn.origene.com/chromatograms/mm9007_f02.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_174866

**ORF Size:** 750 bp

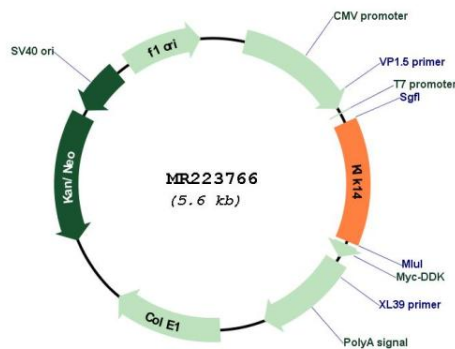
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of 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](mailto: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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u>NM_174866.3</u>
<b>RefSeq Size:</b>	753 bp
<b>RefSeq ORF:</b>	753 bp
<b>Locus ID:</b>	317653
<b>UniProt ID:</b>	<u>Q8CGR5</u>
<b>Cytogenetics:</b>	7 28.26 cM
<b>MW:</b>	27.5 kDa
<b>Gene Summary:</b>	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]

**Product images:**



Circular map for MR223766