

Product datasheet for **MR215632**

King1 (NM_001102412) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | King1 (NM_001102412) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | King1 |
| Synonyms: | King |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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ORF Nucleotide Sequence:

>MR215632 representing NM_001102412
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAAGCTCATTACTACTGCTCTCTGCTCCGGACTCTGCTGACTTTAACACAGGGAGAAGAAGCGC
 AGGAAATTGACTGCAATGATGAGGCTGATTTTCAGGCTGTGGATTCTCTCTGAAGCAGTTAAACCTGG
 GGTAAAAAGTGGCAACCAAGTATATGTTGCACCGAGTGATCGAGGGCACTAAAACGGATGGCTCTCCAAC
 TTTTACTCCTTCAAGTATCTAATCAAGGAGGGCAACTGCTCTGCTCAGAGTGGCCTCGCATGGCAGGACT
 GTGACTTCAAGGACGCTGAGGAAGCCGCACTGGAGAATGCACAGCAACTGTGGGAAAAGAGAAAAATGA
 ATTCTTCATAGTACCCAGACCTGCAAGATTGCTCCAAGTAAGGCCCCCACTACTGAAAGCCTATTTCCCC
 TGTATTGGTTGTGTGCATGCCATATCGACAGATAGTCCAGACCTGGAGCCTGTTCTGAAACTCCATCG
 AACATTTCAACAACAACACAGATCACAGCCACCTTTACTCTCAGAAAAGTAAAAAGTGCCACAGACA
 GGTGGTGGCTGGCCTGAATTTTGACATTACCTACACAATTGTGCAAACAATTGTTCAAAGGAGCGTTTT
 CCTCCCTCCATGGAGACTGCGTGGCCCTTCCCAATGGTATGATGGTGAATGTAGAGGAAATCTCTTCA
 TGGATATTAATAACAAAATTGCCAACTTCTCACAGAGCTGTACCCTTTATTCAGGAGATGATTTGGTAGA
 AGCGCTTCCCAAGCCTTGCCCTGGCTGCCCCAGGGACATACCTGTAGACAGCCCAGAGCTGAAGGAGGTG
 CTTGGTCAATCCATTGCACAGCTAAATGCAGAGAATGACCATCCTTTCTATTACAAGATTGACACCGTGA
 AAAAAGCAACATCACAGTGGTAGCAGGAACTAAATATGTTATTGAGTTCATAGCCAGAGAAACCAATG
 CTCAAGGAAAGTAAACACAGAGCTGGCAGAAGATTGTGAGATCAAGCACCTTGGACAAAGTCTCGACTGC
 AATGCTAACGTGTACATGAGACCTTGGGAGAACAAGTCGTCGACTGTGAAATGCCAAGCATTAGATA
 TGACTGAAATGGCAAGAAGGCCTCCAGTTTTTCTCCTTCCGGAGTGCACAGTACAAGAAACAAAAGA
 AGGAAGAAGTACTCAGATTTTCATTGAAGATGTGGTAGCTACCACCCACCATATGACACTGGGGCCCAT
 GATGATTTGATCCCTGATATCCATGTACAGCCAGATAGCCTTTTATTAAAGCTGATATCTGATTTCCAG
 AAGCAACTTCCCAATGTCCTGGGCGCCATGGAAGCCAGCTAGCTGGAAGGATCCAACACAGAAAC
 AACAGAATTTTCTGATTTGATCTCCTTGATGCTCTTTCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR215632 representing NM_001102412
 Red=Cloning site Green=Tags(s)

MKLITLLLLCSGLLLTLTQGEAAQEIDCNDEAVFQAVDFSLKQFNPGVKSGNQYMLHRVIEGKTDGSPT
 FYSFKYLKEGNCSAQSGLAWQDCDFKDAEEAATGECTATVGKRENEFFIVTQTCKIAPSKAPILKAYFP
 CIGCVHAISTDSPDLEPVLKHSIEHFNNNDHSHLFTLRKVKSAHRQVVAGLNFDITYTIVQTNCSKERF
 PSLHGDCVALPNGDDGECRGNLFMDINNKIANFSQSCTLYSGDDLVEALPKPCPGCPDIPVDSPELKEV
 LGHSIAQLNAENDHPFYKIDTVKATSQVVAGTKYVIEFIARETKCSKESNTELAEDCEIKHLGQSLDC
 NANVYMRPWENKVVPTVKCQALDTEMARRPPGFSFRSVTVQETKEGRTDSDFIEDVVATTPPYDTGAH
 DDLIPDIHVQPSLSFKLISDFPEATSPKCPGRPWKPASWKDPNTEETEFSDFDLLDAL

TRTRPLEQ**KL**ISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_001102412

ORF Size: 1440 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_001102412.1](#), [NP_001095882.1](#)
RefSeq Size: 1756 bp

RefSeq ORF: 1443 bp

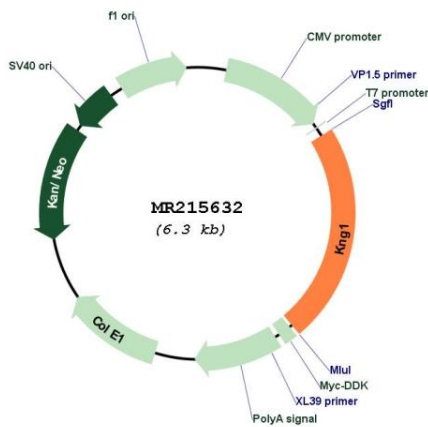
Locus ID: 16644

Cytogenetics: 16 B1

MW: 53.7 kDa

Gene Summary: (1) Kininogens are inhibitors of thiol proteases; (2) HMW-kininogen plays an important role in blood coagulation by helping to position optimally prekallikrein and factor XI next to factor XII; (3) HMW-kininogen inhibits the thrombin- and plasmin-induced aggregation of thrombocytes; (4) the active peptide bradykinin that is released from HMW-kininogen shows a variety of physiological effects: (4A) influence in smooth muscle contraction, (4B) induction of hypotension, (4C) natriuresis and diuresis, (4D) decrease in blood glucose level, (4E) it is a mediator of inflammation and causes (4E1) increase in vascular permeability, (4E2) stimulation of nociceptors (4E3) release of other mediators of inflammation (e.g. prostaglandins), (4F) it has a cardioprotective effect (directly via bradykinin action, indirectly via endothelium-derived relaxing factor action); (5) LMW-kininogen inhibits the aggregation of thrombocytes; (6) LMW-kininogen is in contrast to HMW-kininogen not involved in blood clotting (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR215632