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Product datasheet for MG217206

Kng1 (NM_001102411) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kng1 (NM_001102411) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Kng1
Synonyms:	Kng
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

ORF Nucleotide Sequence:

>MG217206 representing NM_001102411
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAGCTCATTACTACACTGCTCCTCTGCTCCGGACTCCTGCTGACTTTAACACAGGGAGAAGAAGCGC
AGGAAATTGACTGCAATGATGAGGCTGTATTTCAGGCTGTGGATTTCTCTCTGAAGCAGTTTAACCCTGG
GGTAAAAAGTGGCAACCAGTATATGTTGCACCGAGTGATCGAGGGCACTAAAACGGATGGCTCTCCAACC
TTTTACTCCTTCAAGTATCTAATCAAGGAGGGCAACTGCTCTGCTCAGAGTGGCCTCGCATGGCAGGACT
GTGACTTCAAGGACGCTGAGGAAGCCGCCACTGGAGAATGCACAGCAACTGTGGGGAAAAGAGAAAATGA
ATTCTTCATAGTCACCCAGACCTGCAAGATTGCTCCAAGTAAGGCCCCCATACTGAAAGCCTATTTCCCC
TGTATTGGTTGTGTGCATGCCATATCGACAGATAGTCCAGACCTGGAGCCTGTTCTGAAACACTCCATCG
AACATTTCAACAACAACACAGATCACAGCCACCTCTTTACTCTCAGAAAAGTAAAAAGTGCCCACAGACA
GGTGGTGGCTGGCCTGAATTTTGACATTACCTACACAATTGTGCAAACAAATTGTTCAAAGGAGCGTTTT
CCTTCCCTCCATGGAGACTGCGTGGCCCTTCCCAATGGTGATGATGGTGAATGTAGAGGAAATCTCTTCA
TGGATATTAATAACAAAATTGCCAACTTCTCACAGAGCTGTACCCTTTATTCAGGAGATGATTTGGTAGA
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CTTGGTCATTCCATTGCACAGCTAAATGCAGAGAATGACCATCCTTTCTATTACAAGATTGACACCGTGA
AAAAAGCAACATCACAGGTGGTAGCAGGAACTAAATATGTTATTGAGTTCATAGCCAGAGAAACCAAATG
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TGACTGAAATGGCAAGAAGGCCTCCAGGTTTTTCTCCTTTCCGGAGTGTCACAGTACAAGAAACAAAAGA
AGGAAGAACTGTAAGTCCACCCTACATTGCCAGGGAGCAAGAAGAGAGGGATGCAGAAACTGAACAAGGA
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CCTTGGTCATGGACATCAACTTAAACTTGATTATCTTAGACACCAAAGGGAAGATGGTGATGACCATACA
CACACAGTGGGACATGGTCATGGTCACGGACATGGTCATGGTCATGGACATGGACATGGTCATGGTCACG
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TACCCAGAGAACAGAGTCTTTGGCAAGCTCTTCTGAATACAGTACTACATCTACACAGATGCAGGGGAGG
ACAGAAGGGCCCACCTTGACCCCTCCCCGAGCCCAGCCAACTGTTACCTCTTCTGGTTTTCAGGACTCAG
ATTTCATTGAAGATGTGGTAGCTACCACCCCACCATATGACACTGGGGCCCATGATGATTTGATCCCTGA
TATCCATGTACAGCCAGATAGCCTTTCATTTAAGCTGATATCTGATTTTCCAGAAGCAACTTCCCCCAAA
TGTCCTGGGCGCCCATGGAAGCCAGCTAGCTGGAAGGATCCAAACACAGAAACAACAGAATTTTCTGATT
TTGATCTCCTTGATGCTCTTTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

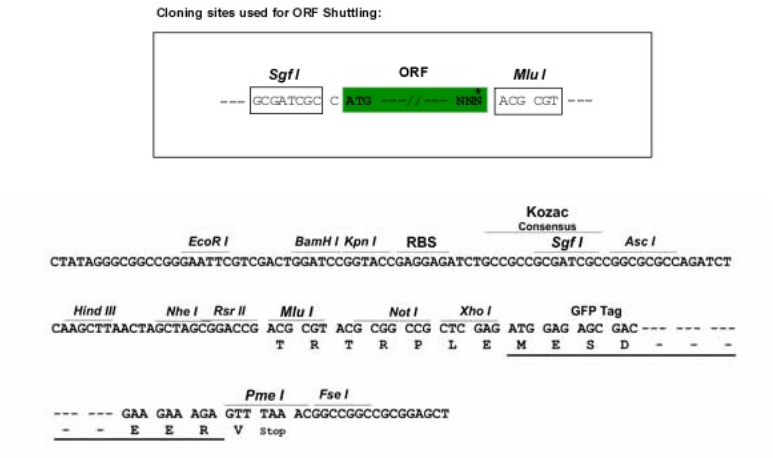
>MG217206 representing NM_001102411
Red=Cloning site Green=Tags(s)

MKLITTLLLCSGLLLTLTQGEEAQEIDCNDEAVFQAVDFSLKQFNPGVKSGNQYMLHRVIEGTKTDGSPT
FYSFKYLIKEGNCSAQSGLAWQDCDFKDAEEAATGECTATVGKRENEFFIVTQTCKIAPSKAPILKAYFP
CIGCVHAISTDSPDLEPVLKHSIEHFNNNTDHSHLFTLRKVKSAHRQVVAGLNFDITYTIVQTNCSKERF
PSLHGDCVALPNGDDGECRGNLFMDINNKIANFSQSCTLYSGDDLVEALPKPCPGCPRDIPVDSPELKEV
LGHSIAQLNAENDHPFYYKIDTVKKATSQVVAGTKYVIEFIARETKCSKESNTELAEDCEIKHLGQSLDC
NANVYMRPWENKVVPTVKCQALDMTEMARRPPGFSPFRSVTVQETKEGRTVSPPYIAREQEERDAETEQG
PTHGHGWLHEKQIKANKNHRGHKHGHDHGHWSPRRHGLGHGHQKPHGLGHGHQLKLDYLRHQREDGDDHT
HTVGHGHGHGHGHGHGHGHGHGHGHGHGHGHGKHTNKDKNSVKQTTQRTESLASSSEYSTTSTQMQGR
TEGPTLTPPRAQPTVTSSGFQDSDFIEDVVATTPPYDTGAHDDLIPDIHVQPDSLSFKLISDFPEATSPK
CPGRPWKPASWKDPNTETTEFSDFDLLDALS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001102411

ORF Size: 1983 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_001102411.1, NP_001095881.1

RefSeq Size: 2299 bp

RefSeq ORF: 1986 bp

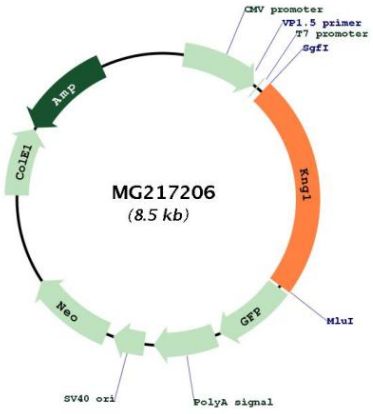
Locus ID: 16644

UniProt ID: O08677

Cytogenetics: 16 B1

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 MG217206