

## Product datasheet for **SC207543**

### Kininogen 1 (KNG1) (NM\_001102416) Human 3' UTR Clone

#### Product data:

|               |  |
|---------------|--|
| Product Type: | 3' UTR Clones  |
| Product Name: | Kininogen 1 (KNG1) (NM_001102416) Human 3' UTR Clone |
| Vector:       | pMirTarget (PS100062)                                |
| Symbol:       | KNG1   |
| Synonyms:     | BDK; BK; HAE6; HMWK; KNG                             |
| ACCN:         | NM_001102416   |
| Insert Size:  | 2000 bp  |



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**Insert Sequence:** >SC207543 3'UTR clone of NM\_001102416  
 The sequence shown below is from the reference sequence of NM\_001102416. The complete sequence of this clone may contain minor differences, such as SNPs.  
 Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
TATTTTCGATCTCACTGATGGCCTTTCTTAATTTAAGTGGCTATGGTATTTCTTTTCATACCTTTATTTAAA
GTATCAATATCCCTCTCTCCATTGTCCAGATGAAAATATCCTGATATAATGCACCAAAAACCATGCAGC
TTCGGAACAGTCTAAAGAGAAGTGGTGAGACTCCAGTGGAGACACCATCAGTCTCCACGGACTGCATA
AAATTGTGTGCCACAATTCTAACTCTTTTCTGAATCTTCTTCCCAAGTTTTCTAACTAGCACAGTAAA
CAGACAAACTAATGTGCCGTATGGCCTGCTGCAATTGGCTTCTCTGATAACAAATATGTACCTTACAAC
ATATGTCATGAATTTGCATACAAAGATTCTTGTCACTTCTTAATAAACTGTGGCACTTGGTATTTGAATG
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CCAGCCTGGGCATCAGAGCAAGATTCTGTCTCAGAAAAAAGAAAAAAGAAAATAAAGAAAAACT
TCCAGATTTCAAAGTAAACAAGAAAGAAGACAGGTTGGCCAAAGGGAGGAAAGGGGGACATAAAATTAAT
TGACTTTCTATTTCCAAAATGGGCTAGTTATATCAAAATAAATACTCCCACTGCCCTTTCTGAGTGAGAG
TGTTTCTCATAAGTCAAAAATTTCTGTTTACTCATTAACTACTCTTTGCAACAGGCTTTTCATATAGAAG
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TTATAGCTTTTTTGTCTAGACTTTGAAGACCATTGATTTTTGAGAAGCAGAATAATAGGATTGCCTTTC
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TATGGCTTTAAATAGCTACAATCATCTTTGGATGTATATGTCAGTCTGCTTCAAGTTATTGGATGCAT
TTGAACCTCTGAGTTTGTCTTTCAATTTAAATATTGTCTGTTCTTTTAAATAAACCAACCACAGATGTCA
GGAAAAAGTCTTACCTTGTCAACTGGTTGCTCCACTTTTTAAAAATGATTGAATGATAACATCATATTA
ACTGCGTTTTACTATACTTACAGAGTCACCTAAGGTCCTGCGAGTACAAGGGTCGACCCCAAGGCAG
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CTCTGCCATGGAGGCTCATAACCAACACTGGAACATTCCCTAGCCAAGGCAGAAAGTCTTGGCGGGA
CTTCTTACCACCACGGGTGCTAAAAGAAGAGTTAGTAGGTATGCTTCTACCAGTAATCTAAGGACTC
TCTCCTTCTTCTTCTTCTTCCAGATTTCCAAGCCTTAGCTAAGAGTAATTTGGCTTGTGTTAGTA
TTGTTTTCTTATGGTCCAGTTAATTACCAAAAATTTTTAAATCATCTCTGTTAATAGAATGTCTA
ACGCGT AAGCGGCCGCGGCATCTAGATTGCAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTCGATTCACCGCCGCTTCTATGAAAGG
  
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**Restriction Sites:** SgfI-MluI

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).

**Components:** The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

**RefSeq:** [NM\\_001102416.3](#)

**Summary:**

This gene uses alternative splicing to generate two different proteins- high molecular weight kininogen (HMWK) and low molecular weight kininogen (LMWK). HMWK is essential for blood coagulation and assembly of the kallikrein-kinin system. Also, bradykinin, a peptide causing numerous physiological effects, is released from HMWK. Bradykinin also functions as an antimicrobial peptide with antibacterial and antifungal activity. In contrast to HMWK, LMWK is not involved in blood coagulation. Infection with severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) reduces or depletes angiotensin converting enzyme 2 (ACE2), which results in an increase in levels of des-Arg(9)-bradykinin, a bioactive metabolite of bradykinin that is associated with lung injury and inflammation. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2020]

**Locus ID:**

3827

**MW:**

76.1