

Datasheet for ABIN3327615

## Rat KNG cDNA Clone in Mammalian Expression Vector (Myc-DYKDDDDK Tag)

### Overview

Quantity:	10 µg
Gene:	Kininogen (KNG)
Species:	Rat
Insert:	cDNA
Vector:	Mammalian Expression Vector
Application:	Protein Expression (PEXP)

### Product Details

Purpose:	Untagged full-length cDNA clone from Rat Kng111 is ideal for over-expression of native protein for functional studies.
Brand:	TrueClones®
Insert Length:	1293 bp
Vector Backbone:	pCMV6-Entry
Promoter:	Enhanced CMV Promoter
Selectable Marker:	Neomycin
Bacterial Resistance:	Kanamycin
Expression Type:	Transient
Specificity:	Restriction Site: SgfI-MluI. With the native stop codon at the end of the ORF the C-terminal Myc-DDK tag in the vector won't be expressed.
Characteristics:	<ul style="list-style-type: none"> <li>• These cDNA clones are isolated from full-length cDNA libraries and usually contain the coding sequence as well as the untranslated regions (UTRs) of the mRNA transcript appropriate to the library from which they were isolated.</li> <li>• These cDNA clones are ideal for over-expression of native proteins for functional studies. Provided as 10 µg transfection-ready plasmids.</li> </ul>

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## Product Details

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- Every lot of primer is tested to provide clean sequencing of cDNA clones.

Purification:	The DNAs were purified using PowerPrep HP Plasmid isolation kits for transfection ready plasmids.
Sequencing Primer:	VP1.5 (forward) 5'GGACTTTCCAAAATGTCTG 3', XL39 (reverse) 5'ATTAGGACAAGGCTGGTGGG 3'
Components:	<ul style="list-style-type: none"><li>• The cDNA clone is shipped in a 2-D bar-coded Matrix tube as dried plasmid DNA.</li><li>• The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.</li></ul>

## Target Details

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Gene:	Kininogen (KNG)
Alternative Name:	Kng111 ( <a href="#">KNG Products</a> )
Background:	Kininogens are plasma glycoproteins with a number of functions: (1) as precursor of the active peptide bradykinin they effect smooth muscle contraction, induction of hypotension and increase of vascular permeability. (2) They play a role in blood coagulation by helping to position optimally prekallikrein and factor XI next to factor XII. (3) They are inhibitor of thiol proteases. [UniProtKB/Swiss-Prot Function] RN201106 has not yet been cited specifically in any publications. <a href="#">Click to view all citations of TrueClone</a>
NCBI Accession:	<a href="#">NM_001009628</a> , <a href="#">NP_001009628</a>

## Application Details

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Restrictions: For Research Use only

## Handling

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Format:	Lyophilized
Storage:	RT,-20 °C
Storage Comment:	The lyophilized plasmid is stable for up to one year when stored at ambient temperature. Following dissolution in 100 µL dH <sub>2</sub> O, store at -20 °C. Lyophilized primers are stable for up to one year when stored at ambient temperature. Following dissolution in 10 µL dH <sub>2</sub> O, store at -20 °C.
Expiry Date:	12 months

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## Publications

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Product cited in: Johnson, Drugan, Miller, Evans: "38" in: , Vol. 1363, Issue Nucleic acids research, pp. 28-39, (1991)