

Product datasheet for **RN217253**

Kank2 (NM_001270413) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kank2 (NM_001270413) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Kank2
Synonyms:	RGD1563532
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN217253 representing NM_001270413
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCAGTCTGCATGTGCCGCCCCATTCCAGGAACCCCTGGCCAAGCCTCCTCAGCGGCCCTTCC
 CCAACAAGGAGCCAGACCCGCCATACTCGGTGGAGACGCCCTATGGCTACCGCCTGGACCTGGACTTCT
 TAAGTACGTGGATGACATTGAGAAGGGCCACACTGCGCAGGGTGCCGGTGACGCGCCGCCACGCCTG
 GGCTCCCTGCCACGTGGCCGGGCTCCTGGTGGACGTCCACAGAGTCGCTGTGCTCTGACGCCAGTGGGG
 ACAGCCGGCACTGGCTACTCTACTGTGGCCGGGCTTCTACCCACAGTACGGAGCCTTGAGACCCG
 CAGCGGCACCAACCCACGCGTGGAAACGCACGCTGCTGGATGCGCGGCCGACTGGAGGACCAGCGGCT
 GCCCATCATCGGGTGGCTGGGCTCTCTGACGCCAGCGCTGCGGGCTCCACCAGCTCCCTGGCAGGCG
 TGGGCTGCTGCCCCACACCTCGCAGCTCTGGCTTGTCCACCCAGTGGCACCCAGCGCTGGTCACT
 GGCCACGTGCGCAACAGATGGCTGGAGCCCTGCGCAAGCTGCGCCAGCTGGAGGAGCAGGTCAAGCTG
 ATCCCCGTGCTCCAGGTCAAGCTGTCCGGTGTCCAGGAGGAAAAAGACAGCTACCCGTGACGCTCAAGA
 GCCAGAAGTTCTAGGCCACCCCTCAGGGACAAGGAGCCGGAGCGAGCTCTGCCTGGACCTTCCGGAGGC
 CCCCAGCAGCCCTGCTGTGCTAGAGACTCGCTCGGTGGGCACCTGGGTTCCGAGAAAGGGATTTGGGCATT
 CCAGATGGTGAAGCTGCCCTGGTAGCTAAAGTGGCCGTGTTGGAGACCCAGCTCAAAAAGCGCTGCAGG
 AGCTGCGGGCGGCTCAGACCCAGCAGGTGACCTCCAGCCCAAGCCTGGCCACCACCAGACCCAGGT
 CCGCGTGGACACCGTGCAGTTGTGGAGGGTCCCGGGAAGTGGAGGTGGCAGCCAGCACGGCAGCCGGG
 GCTCCTGCACAGCGAGCTCAGAGTCTGGAACCTATGGAGCAGGGCTGAAGGCCCTGGCCACATCTCGCG
 AGAACACCCCTTGTGTTCCGAAGTCATGAGGTGGTGGAGACCATGTGCTCCCTGCCACAGCTTCCACCAG
 CAACATGCACACAGCCAAGAAGATCAGTATTACAGAACGGAATTGCACTGGTGGCGCCAGGATGGCAGAG
 CCTTCCCCCTCTAGTCCATACCTGCTGCAAGCCTGAGAACCCTGCCCCAGCTGCCCAGGACACCACGG
 ACAGGGAGCTCACCAGGCTGTGGCATCGCAGGACTCACAAGCGGCCGAGGGAGCAGCGGAGCCTCCTT
 GGGAGTCCAATCAGCCTGAAGAGGAAAGAGTCCCTGCAGACCTGACGTCCACCAGAGGAACCTTCAG
 TTTGTGGGCATCAATGGCGGTATGAGTCTCCTCGGAAGACTCCAGCACAGCAGAGAATCGGAACACG
 AGAGCACAGAGAACGAGGCCCCAGAGCCTCCGGTGAGGGTCTGAGCACAGCTGAAGGCCCTCAGCTCAG
 GCCTCTGGGGCTGCAGTGGCAAGACCAGTACGACGAGCGTCAGCTCTCTCAGGAATCCAGCGTGTG
 CCCGAAGCCAAGGTGGCCCGAGGACCTGACCCGAGGAGGAGATTCGGATGGATCTGAGCCCTGACCTCA
 TATCAGCATGCTTGGCCCTGGAGAAATCTTGGAGAACCCTAATGCCCTCACGGAGCGAGAACTGAAAGT
 GGCTTATACCACGGTGTTCAGGAGTGGCTGCGCCTGGCCTGCCGAGTATGCACACCTGAGCTTGTGA
 CGGCGACATCTGGTACCTTCAGGGCCATGTCTGCCCGGCTGCTGGACTATGTGGTCAACATCGCTGACA
 GCAATGGTAACACTGCCCTGCACTACTCCGTGTACATGCCAACTTCCCTGTGGTTCGGCAGTTGCTGGA
 CAGCGCGTGTGTGAGTGGACAAGCTAAACCGTGTGGTACAGCCGATAATGCTCACTGCTTTGGCC
 ACCCTGAAGACCCAGGATGACATTGACACCATCCTTCACTCTCCGCCTTGGGAATGTCAACGCCAAAG
 CCAGCCAGGCAGGACAGACGGCCCTGATGCTGGCGTACGCCACGGGCGGGTGGATGTGGTGAAGCGCT
 GTTGGCCTGTGAGGTGGATGTTAACATGCAGGATGAGGACGGTCCACGGCCCTGATGTGTGCGTGTGAG
 CACGGACACAAGGAGATCACCGGCTCCTGCTGGCTGTCCCTAGCTGTGACATCTCACTACCGACCGCG
 ATGGAAGCACAGCGCTGATGGTAGCCCTCGACGCTGGGACAGCGAGATCGCATCTATGTGTACTCAGC
 CATGAACATCAAGTGTCTTCCCTCCATGTGCACTACGAGAGTCCGGCTTCTGCTTTCAGCTGAAGAG
 TGA

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII
ACCN: NM_001270413
Insert Size: 2523 bp

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<ol style="list-style-type: none">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:	<u>NM_001270413.1</u> , <u>NP_001257342.1</u>
RefSeq Size:	4792 bp
RefSeq ORF:	2523 bp
Locus ID:	100361376
Cytogenetics:	8q13
Gene Summary:	Involved in transcription regulation by sequestering in the cytoplasm nuclear receptor coactivators such as NCOA1, NCOA2 and NCOA3 (By similarity). Involved in regulation of caspase-independent apoptosis by sequestering the proapoptotic factor AIFM1 in mitochondria (By similarity). Pro-apoptotic stimuli can induce its proteasomal degradation allowing the translocation of AIFM1 to the nucleus to induce apoptosis (By similarity). Involved in the negative control of vitamin D receptor signaling pathway (By similarity). Involved in actin stress fibers formation through its interaction with ARHGDI1 and the regulation of the Rho signaling pathway (By similarity). May thereby play a role in cell adhesion and migration, regulating for instance podocytes migration during development of the kidney (By similarity). Through the Rho signaling pathway may also regulate cell proliferation (By similarity). [UniProtKB/Swiss-Prot Function]