

Product datasheet for **MC222025**

Kank2 (NM_145611) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kank2 (NM_145611) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Kank2
Synonyms:	AI504612; Ankrd25; BC010245
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >MC22025 representing NM_145611
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCCAGGTCCTGCATGTGCCCGCCCCATTCCAGGAACCCCTGGTCAGGCCTCCCAGCGGCCCTTCC
 CCAGCAAGGAGCCAGACCACCGTACTCAGTGGAAACGCCCTATGGCTACCGCCTGGACCTGGATTTTCT
 TAAGTACGTGGATGACATTGAGAAGGGCCACACTGCGCAGGGTGGCGGTACAGCGCCGGCCGCGCCTG
 GGTTCCTGCCACGGGGCCCGGGCTCCTGGTGGACGTCCACAGAGTCTCTGTGCTCTGATGCCAGTGGGG
 ACAGCCGGCACTCGGCCTACTCTACTGTGGCCGCGGCTTCTACCCACAGTACGGAGCCTTGAGACCCC
 AATCGGCTCCAACCTCGTGTGGAGCGCACGCTGCTGGATGCGCGGCCCGGCTGGAGGACCAGGCGGCT
 GCCCATCGTCCGGTGGCTGGCTCCCTCACACCAGCGCCGCGGGCTCCACCAGCTCCCTGGCAGGGC
 TGGGCTGCTGCCCCCACGCTCGCAGCTCCGGCTGTCCACCCGGTGGCACCAGCGCTGGTCACT
 AGCCACGTGCGGAGCAGATGGCTGGAGCCCTGCGCAAGCTGCGCCAGCTGGAGGAGCAGGTCAAGCTG
 ATCCCCGTTCTCCAAGTCAAGCTGTCAAGTGTCCAGGAGGAAAAGAGACAGCTCACCGTGCAGCTCAAGA
 GCCAGAAGTTTCTAGGTACCCCTCAGGGACACGGAGCCGGAGTGAAGTCTGCTGGACCTTCCCAGGGC
 CCCTGACGACCCTGCTGCACTAGAGACCCGCTCGGTGGGCACCTGGGTTAGAGAACGGGACTTGGGCATT
 CCAGATGGTGAAGCTGCCTGGTGAAGTAAAGTGGCCGTGTTGGAGACCCAGCTCAAAAAGCGCTACAGG
 AGCTGCGGGCGGCTCAGACCCAGCAGGTGACCTCCAGCCCCAGGCTGGCCACCACCAGACACCAGGT
 CCGCGTGGACACCGTGCAGTAGTGGAGGGTCCCCGGGAAGTGGAGTGGCAGCCAGCACGGCAGCCGGG
 GCCCTTGACAGCGAGCTCAGAGTCTGGAACCTACGGAACAGGGCTGAAGGCCCTGACCACATCTGGGG
 GACCAGAGAACCCCTCGTGTCCGCACTGAAGTGGTGGAGACCATGTGCCCATGCCACACAGGATG
 CACTGGCAATGTGCACACAGCCAAGAAGATCAGCATTACAGAACGGAGTTGCACCGGTGCACCCAGGATG
 ACAGAGCCTTCTCCGTTAATCCACGCCCTGCTGACGCTCTGTGGTACAGCCTGAGAACCCTGTCCCGG
 CTGCCAGGACACCCTGACAAGAAGCCACCAGGCCAGCAGCAGCATCGCAGGACTCACAAGCGGCTGA
 CGGAGCAGGCAGAGCCTCTTGGCCACGAAGAGGAAAGAGGACCCCGCAGACCCTGAAGTCAACCAGAGG
 AACCTCCAGTTTGTGGGAGTCAATGGCGGGTATGAGTCCCCCTCGGAGGACTCCAGCACAGCAGAAA
 CCGAACACGAGAGCACAGAGAACGAGGGCCCGGAGCCACCAGCAAGGGTCTGAGCCAGCTGAATGTCC
 TCAGCTCAGGCCCTCAGGGGCTGCAGTGGCCACGACCAGTCTGGAGGGGCCCCAGCTCTCCAGGAATCC
 CAGCGTGTGCTGCACCTGAGGTGGCGTCAAGACCCGATCCTGAGGAGGAAATTCGGATGGATCTGAGCC
 CTGACCTCATATCAGCCTGCTTGGCCCTGGAGAAATACCTGGAGAACCCCAATGCCCTCACAGAGCGAGA
 ACTGAAAGTGGCCTATACCACAGTGCTTCAAGAGTGGCTGCGCCTGGCCTGCCGAGTGACGCACACCCCT
 GAGCTTGTGCGGCGACATCTAGTCACCTTCAAGGCCATGTCTGCCCGGCTGCTGGACTACGTGGTCAACA
 TCGCCGACAGCAATGGTAACTGCCCCTGCACTACTCAGTGTACACGCCAACTCCCTGTGGTGGCGCA
 GTTGTGGACAGCGGGTCTGTGATGTGGACAAGTGAACCGTGGCCGCTACAGCCCTATTATGCTCACT
 GCCCTGGCCACGTTGAAGACCCAGGACGACATTGAGACCATCCTCAGCTCTTCCGGCTTGGGAATGTCA
 ATGCCAAAGCCAGCCAGGACGACAGACGGCCCTGATGCTGGCCGTGAGCCAGGGCGGGTGGACGTGGT
 GAGAGCATTGCTGGCCTGTGAGGCGGACGTCAACATTGAGGATGAGGACGGCTCCACGGCCCTGATGTGT
 GCATGTGAGCACGGACACAAGGAGATCACCGGGCTCCTGCTGGCTGTGCCCTAGCTGTGACATCTCACTCA
 CTGACCCGACGGGAGCAGCACTGATGGTGGCCCTGGACGCTGGGACAGAGCAGATCGCATCTATGCT
 GTACTCACGCATGAACATCAAGTGTCTGCTCCCATGTCAGACTACGAGAGTCCGGCTTCGTTCTCA
 GCCGAGGAG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
ACCN: NM_145611
Insert Size: 2532 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).
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:	NM_145611.4 , NP_663586.3
RefSeq Size:	4853 bp
RefSeq ORF:	2532 bp
Locus ID:	235041
UniProt ID:	Q8BX02
Cytogenetics:	9 A3
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 (PubMed:25961457). May thereby play a role in cell adhesion and migration, regulating for instance podocytes migration during development of the kidney (PubMed:25961457). Through the Rho signaling pathway may also regulate cell proliferation (PubMed:16024821).[UniProtKB/Swiss-Prot Function]