

Product datasheet for **MG216907**

Kank2 (NM_145611) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Kank2
Synonyms:	AI504612; Ankrd25; BC010245
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence: >MG216907 representing NM_145611
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCCGAGGTCCTGCATGTGCCCGCCCCATTCCAGGAACCCCTGGTCAGGCCTCCCAGCGGCCTTCC
CCAGCAAGGAGCCAGACCACCGTACTCAGTGGAAACGCCCTATGGCTACCGCCTGGACCTGGATTTTCT
TAAGTACGTGGATGACATTGAGAAGGGCCACACTGCGCAGGGTGGCGGTACAGCGCCGGCCGCGCCTG
GGTTCCTGCCACGGGGCCCGGGCTCCTGGTGGACGTCCACAGAGTCTCTGTGCTCTGATGCCAGTGGGG
ACAGCCGGCACTCGGCCTACTCCTACTGTGGCCGCGGCTTCTACCCACAGTACGGAGCCTTGGAGACCCG
AATCGGCTCCAACCCCTCGTGTGGAGCGCACGCTGCTGGATGCGCGGGCCGGCTGGAGGACCAGGGCGCT
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GCCAGAAGTTTCTAGGTCACCCCTCAGGGACACGGAGCCGGAGTGAGCTCTGCCTGGACCTTCCCAGGC
CCCTGACGACCCCTGCTGCACTAGAGACCCGCTCGTGGGCACCTGGGTTAGAGAACGGGACTTGGGCATT
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GACCAGAGAACCCTCGTGTCCGAGTCATGAAGTGGTGGAGACCATGTGCCACTGCCACAGCTAC
CACTGGCAATGTGCACACAGCCAAGAAGATCAGCATTACAGAACGGAGTTGCACCGGTGCACCCAGGATG
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CGGAGCAGGCAGAGCCTCTTTGGCCACGAAGAGGAAAGAGGACCCCGCAGACCTGAAGTCAACCAGAGG
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GAGCTTGTGCGGGACATCTAGTCACTTCAGGGCCATGTCTGCCCGGCTGCTGGACTACGTGGTCAACA
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GTACTACGCATGAACATCAAGTGTCTGCTCCCATGTGAGTACGAGAGTCCGGCTTCTGCTTCA
GCCGAGGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG216907 representing NM_145611

Red=Cloning site Green=Tags(s)

MAQVLHVPAPFPGTPGQASPAAFPSKEPDPPYSVETPYGYRLDLDLFLKYVDDIEKGHTLRRVAVQRRPRL
GSLPRGPGSWWTSTESLCSASGDSRHSAYSYCGRGFYQYGALETRIGSNPRVERTLLDARRRLEDQAA
APSSGGLGSLTPSAAGSTSSLAGVLLPPTPRSSGLSTPVAPSAGHLAHVREQMAGALRKLRLQLEEQVKL
IPVLQVKLSVLQEEKRQLTVQLKSQKFLGHPSGTRSRSELCLDLPEAPDDPAALETRSVGTWVRERDLGI
PDGEAALVAKVAVLETQLKKALQELRAAQTTQQVDLQPQAWPPDTPQVRVDTVRVVEGPREVEVAASTAAG
ALAQRASQLEPYGTGLKALTSSGGPENTLVFRSHEVVETMCPLPTATTGNVHTAKKISITERSCTGAPRM
TEPSSVNPRPAAASVVQPENPVAAQDTTDDKPTRPAAASQDSQAADGAGRASLATKRKEDPADPEVNQR
NLQFVGVNGGYESESSEDSTAENSEHESTENEGPEPPARVLSPAECPLRPPGAAVATTSLEGPQLSQES
QRVPAPEVASGPDPEEEIRMDLSPDLISACLAL EKYLENPALTERELKVAYTTVLQEWLRLACRSDAHP
ELVRRHLVTFRAMSARLLDYVVNIADSNGTALHYSVSHANFPVVRQLLD SGVCHVDKLN RAGYSPIMLT
ALATLKTQDDIETILQLFRLGNVNAKASQAGQTALMLAVSHGRVDVVRALLACEADVNIQDEDGSTALLMC
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AEE

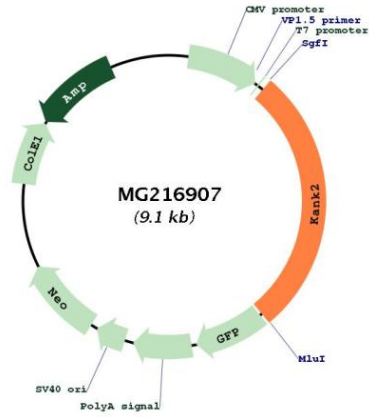
TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
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]

Product images:



Circular map for MG216907