

## Product datasheet for MR211454

### Kank4 (NM\_172872) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Kank4 (NM\_172872) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Kank4  
**Synonyms:** Ankrd38; AU021071; BC060737; C130031J23  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR211454 representing NM\_172872  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGAAGATAGATGGCAAGGACCAGTCCTCTCAGGGGGATGAAGAGAAAGAGCCTCCAAAGAGCTACC  
CTTACTCTGTGGAGACCCCGTATGGTTTTTCATCTGGACTTGGACTTCTCAAATATGTGGATGACATTGA  
GAAGGGACACACCATCAAAGGATTCGATCCACAGACGACCAAGCAGGCTAAGTTTAGTACTCTGCC  
CGAAATTCAGCCTTCCAACAGTGGGACCGCACCTATGCTGTTCTCCCAGCAAACAGTCTCCTG  
TGGTACCCAGAAAGATATCCCTGGGACCCAGGAGCCATCCAGCCACTGCCACTGGGTGATCTCCCCA  
GGCTCGGTGCAAGGCAGTGAAGTGAAGTACCACAGGAAGGCTCTTGGCAAAGGATGCCAGGCAGGCG  
GAGGCTGGTTCTCTGGAGGATGTAGGGAGTGGACGGCCCCAGCTGTTGAGAGCATCCAGCATGCCTGCTA  
CACTGCTGCAAAACCAGGTCCCCGAAGAGCCCAGCCTGACCTCAGGCCCTTCCACACTTCTTGCCCTCCC  
TCTGCTCCAGGATGAAGGCAGTGTGTGTGATGGTGCCTTTGACCTGCAGAAGGGCTCATGGGTTTCCAA  
GCATCGGCCAGTCAGTAGACAGGGAGTTGGGGAACTAGAGCCAGCAATTCAGAGCAGGTCTGGGAGG  
GGGCTGAACAGAAGAAGGTGACCTCAAGGCTTCAAGTCACTCTCTCAGCCAGGTCTTCTCCGCAGT  
CCAGAGTGTCCCATGGATCTAGAGGAAGTGGAAATTGAGCACCACATGAGAGAAGCAGAGCTGGTGTTA  
ACGCTTGGTCCGCCACGCCAGCCCCCTCTGCCCTCCCCATCCTTGAGAATGATCTCCTCCCTGG  
ACGAAATCGAGCTGAGCATCAGCGAGATCCCACCCCTCCACCCATAGAAGTGGATGTGAGGAGCATTGG  
GATCCGGGTAACGGAGGAAGCCTGGGCCCTGCTGGAGACTGATACCAGCAGTATCTCCAGCCTGAAGAAT  
CAGGCTCTGGCCCTTGGAGCAAAATGTGGGGAGAACAGAAGAGCTTGGCCGGGTGAGAGCTGCCCTTG  
AGCAGCAGGAAGAAGAGACCAAGGCTAGGGAACAGAGGATTCAAGAGCTGGAGTGCAGTGTAGCCATTT  
AGAAGAAAAGCTTAGTCAAGAGAGGGCCAGCGAGGCTCCGGACAGGACTGATGCCACGGTGAACACTGAC  
CCCCTACAGGAGCTCACTCCCCGAGAGTCCCATGATAAGAACATTGGGGTCAATCTGCTGAACACTCCGG  
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CTATCCGAGCCCCGAAGAACCCTGCTGCCACCCCAACTGCTCACTGCCAAGGGGACCTGAGCAGATCCTC



GCCTCATCCCTGTGCAGCTGCCTCTCCATGGAGCTCCGGATTGAAGAGGAGGGTTCTGAGCAGGAGGGAG  
 GCCAGGAGGAGGGAGCTGGGGCTTGGAGAGGAGCAGGAGAGTCTTCTGGAGACAAGAGAATCTGC  
 TCCCGTATCAGGGAGGAGGCCACCTCAGAGCTCCCCGGAGCAGAGCGTCCAGGAAGGCCAGCCAGTTCC  
 CCACAAGATGCCACAATCGGGCAGTATGTGAAGAAGATTCAAGAGCTTCTCCATGAACAGTGAAGTCC  
 TGGAGCATGGCTACCCGGAGCTGGCCAGCGCCATCAAGCAGCCCGCTCCAAGCTCAGCAGCATCCAGAA  
 CCAACTGCTCAGTCCCTAACCTGTTACTCTCTGCTACTCAGCTCAGGCCCGGAGCCGGAGCCGAAG  
 GAAACTCTGCCCTCCCCCTCCACCCCGCCCGCCCGCCCGCCAGAGATCTCTCCGTCGA  
 CCAGCCTTAAATCCATAATGAAAAAGAAAGACTATGGCTTCCGTGACAGGAGTAATGGGACCAAAAAGAA  
 CCTTCAGTTTGTGGGGTAAACGGTGGCTATGAGACCAGTCTAGCGAGGAGACCAGTGGGGAGGACAGC  
 TCCCTGAGGATTTGTCTGACAGTGAAGCCGAGAAGAAACAGGATTGCTCAGAGTCCAGGGAGGACAGAG  
 ACTTGCATCCCAGCTGTGAGGCTGGCAGGAGTCCCTGAAGGCACCAGAACTCAGGCCACACAAGTGA  
 TCGTGGGAGGAAGTGTCTCATCTGAGGCTGAGAGATAAAACCCTCAGAGGAATTTCTAACCGCTGC  
 CAGACTGAGCCAGCACCTGCCGAAACTGGGATACCACCAAGCAGCTCCTGAGGCAAAGCTTGAATA  
 CCATCAGTCAGGAGTGGTCCGTGTGTCAGCAGGAAGTTATCTAGCCCTGAGGCTGTGGCTGCCTACCT  
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 GCAATGTGGATCATCAGAACAAAGCTGGCTACACTGCTGTGATGATCACTCCCTGGCTTCTGCTGAGAC  
 AAAAGAAGACATGGCTGTTGTCTGGAACTCTTAAGAGAGGGGAATGTGAACATAACAAGCAACTCAGGGA  
 GGACAGACTGCACTGATGTTAGGAGTCAAGCCAGCCGGAGGACATGGTCCAAGCACTACTGAGCTGCC  
 AGGCAGATGTCAACCTGCAGGACAATGATGGATCTTCCGCCCTCATGCTGGCCTGTCAACAGGCAACGC  
 CGACCTGGTACGACTGCTCCTGGCACACCCAGCCTGCAACAGCAGCCTGACTGACAAGGCTGGCCGAACA  
 GCTTTGTCCTCGTTCTGAATTCACCTGCCACGTGGAATCGCAGAGCTTCTGCGGGCCCACTCAGAGC  
 CGGGCAGGTCCCTGGGGCCGAAGGAGCTGCAGAAGAAT

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTAA

**Protein Sequence:**

>MR211454 representing NM\_172872  
 Red=Cloning site Green=Tags(s)

MEKIDGKDQSSQGDDEEKPPKSYPPYSVETPYGFHLDLDFLKYVDDIEKGHTIKRIPIHRRAKQAKFSTLP  
 RNFSLPNSGDRTYAVPPQQNWSVVPVKISLGTQEPSQPLPLGDLPPQASVQGSSELYHRKALLAKDARQA  
 EAGSLEDVSGRPLLRASSMPATLLQNQVPEEPSLTS GPSTLLALPLLQDEGSVCDGAFDPAEGLMGFQ  
 ASAQSVRELGELEPAIPEQVWEGAEPEEGDLKASSHL SQPGSSAVQSVPMDEEVEIEHHMREAEVL  
 TPGSATSPPPPLPSPILENDLSLDEIELSISEIPPPPIEVDVRSIGIRVTEESLGLLETDTSSISLKN  
 QVLALEDKLSGRTEELARVRAALEQEEETKAREQRIQEELECTVAHLEEKLSQERASEAPDRD DATVNTD  
 PLQELTPRESHDKNIGVNLNTPDPECRAPRAEKNGFPWWQNNHKQSYPSPPEEPVLPQLSLPRGPEQIL  
 ASSLC SCLSMELRIEEEGSEQEGGQEEGAGGLSRAAGESWSTRESAPVIREEATSELPGAERPGRPASS  
 PQDATIGQYVKKIQELLHEQWNCLEHGYPELASAIKQPASKLSSIQNQLLSSLNLLLSAYSAQAPEPEPK  
 ETPAPPPSTPPPPPPPEISPSTSLKSIMKKDYGFRAGGNGTKKQLFVGVNGGYETTSSEETSGEDS  
 SPEDLSDSETEKKQDCSESREDRDLHPSCEAGQGVPEGTRNSGHTSDRGEEVSHLRAERYKPSEEFNLAC  
 QTL SQHLPETGDTTKQLLRQSLNLTISQEWFRVSSRKLSSPEAVAAAYLLEVQPHSPYLLKLLVNLADRSGN  
 TALHYSVSHSNFAIVKLLLDTGVCNVDHQNKAGYAVMITPLASAEKEDMAVVWKLREGNVNIQATQG  
 GQTALMLGVSHDREDMVQALLSCQADVNLQDNDGSSALMLACHQGNADLVRLLLAHPACNSSLTDKAGRT  
 ALSLVLNSPAHEIAELLRAHSEPRSLGPKELQKN

SGPTRRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9099\\_c08.zip](https://cdn.origene.com/chromatograms/mm9099_c08.zip)

**Restriction Sites:**

Sgfl-RsrII

**Cloning Scheme:**


**ACCN:** NM\_172872

**ORF Size:** 3048 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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:**

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\\_172872.3](#), [NP\\_766460.2](#)

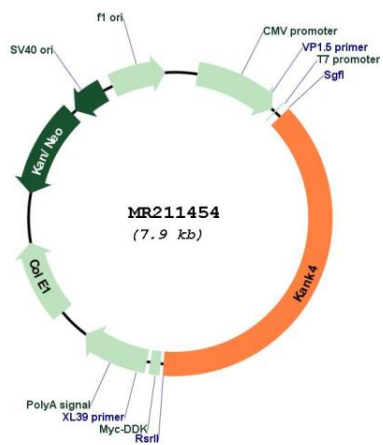
**RefSeq Size:** 4801 bp

**RefSeq ORF:** 3051 bp

**Locus ID:** 242553

**UniProt ID:** [Q6P9J5](#)  
**Cytogenetics:** 4 C6  
**MW:** 110.4 kDa  
**Gene Summary:** May be involved in the control of cytoskeleton formation by regulating actin polymerization. [UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for MR211454