

Product datasheet for **MR209360**

Ankrd25 (BC010245) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ankrd25 (BC010245) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ankrd25
Synonyms:	MGC12143, MGC7734
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR209360 representing BC010245
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCCAGTCTCGATGTGCCCGCCCAATCCAGGAACCCCTGGTCAGGCCTCCCAGCGCCCTTCC
 CCAGCAAGGAGCCAGACCACCGTACTCAGTGGAAACGCCCTATGGCTACCGCCTGGACCTGGATTTTCT
 TAAGTACGTGGATGACATTGAGAAGGGCCACACTGCGCAGGGTGGCGGTACAGCGCCGGCCGCGCTG
 GTTTCCCTGCCACGGGGCCCGGGCTCCTGGTGGACGTCCACAGAGTCTCTGTGCTCTGATGCCAGTGGG
 ACAGCCGGCACTCGGCCTACTCTACTGTGGCCGCGGCTTCTACCCACAGTACGGAGCCTTGAGACCCG
 AATCGGCTCCAACCTCGTGTGGAGCGCACGCTGCTGGATGCGCGGCCCGGCTGGAGGACCAGTGGCT
 GCCCATCGTCCGGTGGCTGGCTCCCTCACACCAGCGCCGCGGGCTCCACCAGCTCCCTGGCAGGCG
 TGGGCTGCTGCCCCCACGCTCGCAGCTCCGGCTGTCCACCCGGTGGCACCAGCGCTGGTCACT
 AGCCCACGTGCGGAGCAGATGGCTGGAGCCCTGCGCAAGCTGCGCCAGCTGGAGGAGCAGTCAAGCTG
 ATCCCCGTTCTCCAAGTCAAGCTGTCAAGTGTCCAGGAGGAAAAGAGACAGCTCACCGTGCAGCTCAAGA
 GCCAGAAGTTTCTAGGTACCCCTCAGGGACACGGAGCCGGAGTGAAGTCTGCTGGACCTTCCCAGGGC
 CCCTGACGACCCTGCTGCACTAGAGACCCGCTCGGTGGGCACCTGGGTTAGAGAACGGGACTTGGGCATT
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 AGCTGCGGGCGGCTCAGACCCAGCAGGTGACCTCCAGCCCCAGGCTGGCCACCACCAGACACCAGGT
 CCGCGTGGACACCGTGCAGTAGTGGAGGGTCCCCGGAAAGTGGAGTGGCAGCCAGCACGGCAGCCGGG
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 GACCAGAGAACACCTCGTGTCCGCACTGAAGTGGTGGAGACCATGTGCCACTGCCACAGCTAC
 CACTGGCAATGTGCACACAGCCAAGAAGATCAGCATTACAGAACGGAGTTGCACCGGTGCACCCAGGATG
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 CTGCCAGGACACCCTGACAAGAAGCCACCAGGCCAGCAGCAGCATCGCAGGACTCACAAGCGGCTGA
 CGGAGCAGGCAGAGCCTTTTGGCCACGAAGAGGAAAGAGGACCCCGCAGACCCTGAAGTCAACCAGAGG
 AACCTCCAGTTTGTGGGAGTCAATGGCGGGTATGAGTCCCCCTCGGAGGACTCCAGCACAGCAGAAA
 CCGAACACGAGAGCACAGAGAACGAGGGCCCGGAGCCACCAGCAAGGGTCTGAGCCAGCTGAATGTCC
 TCAGCTCAGGCCCTCAGGGGCTGCAAGTGGCCACGACCAGTCTGGAGGGGGCCAGCTCTCCAGGAATCC
 CAGCGTGTGCTGCACCTGAGGTGGCGTACAGACCCGATCCTGAGGAGGAAATTCGAAAGTGGCCTATAC
 CACAGTGTTCAGGAGTGGCTGCCCTGGCCTGCCGAGTACGCACACCCTGAGCTTGTGCGGCGACAT
 C

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTAA

Protein Sequence:

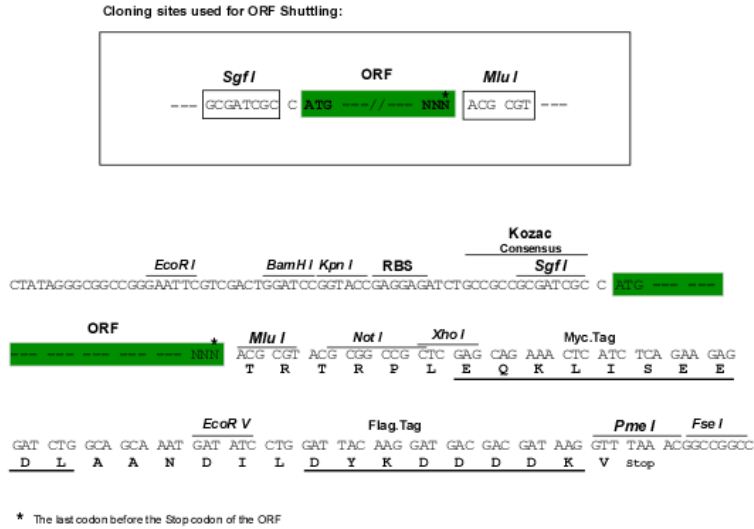
>MR209360 representing BC010245
 Red=Cloning site Green=Tags(s)

MAQVLHVPAPFPPTGPGQASPAAFPSKEPDPYVETPYGYRLDLDFLKYVDDIEKGHTLRRVAVQRRPRL
 GSLPRGPGSWWTSTESLCSASGDSRHSAYSYCGRGFYYPQYGALETRIGSNPRVERTLLDARRRLEDQVA
 APSSGGLGSLTPSAAGSTSSLAGVLLPPTPRSSGLSTPVAPSAGHLAHVREQMAGALRKLRLQLEEQVKL
 IPVLQVKLSVLQEEKRQLTVQLKSQKFLGHPSTRSRSELCLDLPEAPDDPAALTRSVGTWVRERDLGI
 PDGEAALVAKVAVLETQLKKALQELRAAQTQQVDLQPQAWPPPDTQVRVDTVRVVEGPREVEVAASTAAG
 ALAQRASLEPYGTGLKALTTSGPENTLVFRSHEVVEVMCPPTATTGNVHTAKKISITERSCTGAPRM
 TEPSSVNPRAAASVVQPENVPAAQDITDKPTRPAAASQDSQAADGAGRASLTKRKEPADPEVNQR
 NLQFVGVNGGYEPPSEDSSTAENSEHESTENEGPEPPARVLSPAECPQLRPPGAAVATTSLEGPQLSQES
 QRVPAPEVASGPDPEEERKWPQPFRSGCAWPAAVTHTLSLGGDI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC010245

ORF Size: 1821 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: [BC010245.1](#)

RefSeq Size: 3427 bp

RefSeq ORF: 1823 bp

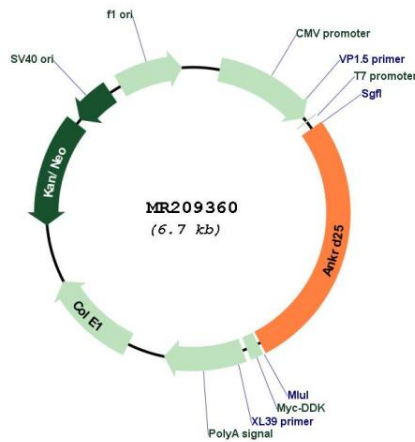
Locus ID: 235041

Cytogenetics: 9 A3

MW: 125.6 kDa

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 ARHGDI A 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 MR209360