

Product datasheet for **MG209360**

Ankrd25 (BC010245) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ankrd25 (BC010245) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ankrd25
Synonyms:	MGC12143, MGC7734
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209360 representing BC010245
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCCCAGGTCCTGCATGTGCCCGCCCCATTCCAGGAACCCCTGGTCAGGCCTCCCAGCGGCCCTTCC
 CCAGCAAGGAGCCAGACCACCGTACTCAGTGGAAACGCCCTATGGCTACCGCCTGGACCTGGATTTTCT
 TAAGTACGTGGATGACATTGAGAAGGGCCACACTGCGCAGGGTGGCGGTACAGCGCCGGCCGCGCCTG
 GGTTCCTGCCACGGGGCCCGGGCTCCTGGTGGACGTCCACAGAGTCTCTGTGCTCTGATGCCAGTGGGG
 ACAGCCGGCACTCGGCCTACTCTACTGTGGCCGCGGCTTCTACCCACAGTACGGAGCCTTGAGACCCC
 AATCGGCTCCAACCTCGTGTGGAGCGCACGCTGCTGGATGCGCGGCCCGGCTGGAGGACCAGGTGGCT
 GCCCATCGTCCGGTGGCTGGCTCCCTCACACCAGCGCCGCGGGCTCCACCAGCTCCCTGGCAGGCG
 TGGGCTGCTGCCCCCACGCTCGCAGCTCCGGCTGTCCACCCGGTGGCACCAGCGCTGGTCACT
 AGCCCACGTGCGGAGCAGATGGCTGGAGCCCTGCGCAAGCTGCGCCAGCTGGAGGAGCAGTCAAGCTG
 ATCCCCGTTCTCCAAGTCAAGCTGTCAAGTGTCCAGGAGGAAAAGAGACAGCTCACCGTGCAGCTCAAGA
 GCCAGAAGTTTCTAGGTACCCCTCAGGGACACGGAGCCGGAGTGAAGTCTGCTGGACCTTCCCAGGGC
 CCCTGACGACCCTGCTGCACTAGAGACCCGCTCGGTGGCACCTGGGTTAGAGAACGGGACTTGGGCATT
 CCAGATGGTGAAGCTGCCTGGTAGCTAAAGTGGCCGTGTTGGAGACCCAGCTCAAAAAGCGCTACAGG
 AGCTGCGGGCGGCTCAGACCCAGCAGGTGACCTCCAGCCCCAGGCTGGCCACCACCAGACCCAGGT
 CCGCGTGGACACCGTGCAGTAGTGGAGGGTCCCCGGGAAGTGGAGTGGCAGCCAGCACGGCAGCCGGG
 GCCCTTGACAGCGAGCTCAGAGTCTGGAACCTACGGAACAGGGCTGAAGGCCCTGACCACATCTGGGG
 GACCAGAGAACCCTCGTGTCCGCAAGTCAAGTGGTGGAGACCATGTGCCACTGCCACACAGCTAC
 CACTGGCAATGTGCACACAGCCAAGAAGATCAGCATTACAGAACGGAGTTGCACCGGTGCACCCAGGATG
 ACAGAGCCTTCTCCGTTAATCCACGCCCTGCTGCAGCCTCTGTGGTACAGCCTGAGAACCCTGTCCCGG
 CTGCCAGGACACCCTGACAAGAAGCCACCAGGCCAGCAGCAGCATCGCAGGACTCACAAGCGGCTGA
 CGGAGCAGGCAGAGCCTCTTGGCCACGAAGAGGAAAGAGGACCCCGCAGACCCTGAAGTCAACCAGAGG
 AACCTCCAGTTTGTGGGAGTCAATGGCGGGTATGAGTCCCCCTCGGAGGACTCCAGCACAGCAGAAA
 CCGAACACGAGAGCACAGAGAACGAGGGCCCGGAGCCACCAGCAAGGGTCTGAGCCAGCTGAATGTCC
 TCAGCTCAGGCCCTCAGGGGCTGCAGTGGCCACGACCAGTCTGGAGGGGCCCCAGCTCTCCAGGAATCC
 CAGCGTGTGCTGCACCTGAGGTGGCGTACGACCCGATCCTGAGGAGGAAATTCGAAAGTGGCCTATAC
 CACAGTGTTCAGGAGTGGCTGCCCTGGCCTGCCGACAGTACGCACACCCTGAGCTTGTGCGGCGACAT
 C

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG209360 representing BC010245
 Red=Cloning site Green=Tags(s)

MAQVLHVPAPFPPTGPGQASPAAFPSKEPDPPYSVETPYGYRLDLDFLKYVDDIEKGHTLRRVAVQRRPRL
 GSLPRGPGSWWTSTESLCSASGDSRHSAYSYCGRGFYQYGALETRIGSNPRVERTLLDARRRLEDQVA
 APSSGGLGSLTPSAAGSTSSLAGVLLPPTPRSSGLSTPVAPSAGHLAHVREQMAGALRKLRLQLEEQVKL
 IPVLQVKLSVLQEEKRQLTVQLKSQKFLGHPSTRSRSELCLDLPEAPDDPAALETRSVGTWVRERDLGI
 PDGEAALVAKVAVLETQLKKALQELRAAQTTQVDLQPQAWPPPTQVRVDTVRVVEGPREVEVAASTAAG
 ALAQRASLEPYGTGLKALTTSGGPENTLVFRSHEVVEVMCPPTATTGNVHTAKKISITERSCTGAPRM
 TEPSSVNPRPAAASVVQPENVPAAQDITDKKPTRPAAASQDSQAADGAGRASLAKRKEPADPEVNQR
 NLQFVGVNGGYE SPSSEDSSTAENSEHESTENEGPEPPARVLSPAECPQLRPPGAAVATTSLGEPQLSQES
 QRPVAPPEVASGPDPEEEIRKWPQPQCFRSGCAWPAAVHTHTLSLCLGDI

TRTRPLE - GFP Tag - V

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

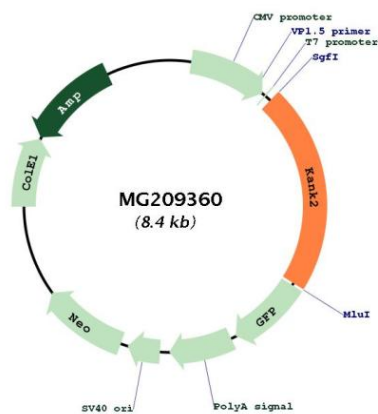
RefSeq ORF: 1823 bp

Locus ID: 235041

Cytogenetics: 9 A3

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 MG209360