

Product datasheet for **MR205104**

Ankrd32 (BC009101) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ankrd32 (BC009101) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ankrd32
Synonyms:	2700017A04Rik; Ankrd32; AW545819; Brctd1; Brctx; C730024G01Rik
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR205104 representing BC009101 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGACATACATGGGGCTGGAAGATGCAGAGTCCAAAAAACTCTGCCAGCGGCCTTGCTAGAGTCTC
AAAGAGCATTACTAATGCTGAATGGTGCAAAACGAAACAAGCAGAAGGTCGGCCAGAGCTCCTAGAGTT
AAACCGTGCTAAATGTTCCCTCATCATTGAAAAAATTGAAAAAGAAGTCAGAGGAATTGTCATGTTCCAAG
GAGAATTGCCATCTTTGGTTACAAAGATGAATTTTCATAAAACTAATCTGAAAGGGGAAACAGCTCTGC
ATAGAGTTTGCATAAAAAACCAAGTGGAGAAATTGATTATCCTTCTGTCTTTGCCAGGAATAGACATCAA
TGTTAAAGACAATGCTGGCTGGACGCCTTTGCATGAAGCCTGCAACTATGGCAACACGGAGTGTGTCCAG
GAAATTCTGCAGCGTTGTCCAGAGGTGGATCTGCTCACTCAAGTGGACGGGGTGACGCCTTTGCATGATG
CGCTGTCAAACGGACATGTGGAGATTGGCAAGCTGCTTACAGCGTGGGGGCCAGAACTTTTACAGCA
GAGGAATCTAAGGGGGAGTTGCCCTTGGATTATGTGCTGTCCCCTAAGGACAAGGAAGAATTTTACCACCAACAGC
TTGAATTTGGTTGTTTTACTTAGTAGGATGTTGATTAATTTTGTTCATATTTGTTGCTCCTCAGA
ATTTATCCTAGCTTTCAAAGGGTTAGGTCATCTAAATGAGTTGCTTATGGCATGCAATAGTGATACAGAA
GCCAGCAATGCACATACTGACTGTTATTGGATGTTTATGCTAGGAATATAAAGACATTAAGAAGCTCC
CAAGTGTCTTAAAGAGCTGCCTGAGAATCTAAATGTATGTCCTGGAGTGCATACTGAGGCCTTACTGGT
GACACTGAAAATGATGTGTCAGTCAATCACAGAGCTGTCA

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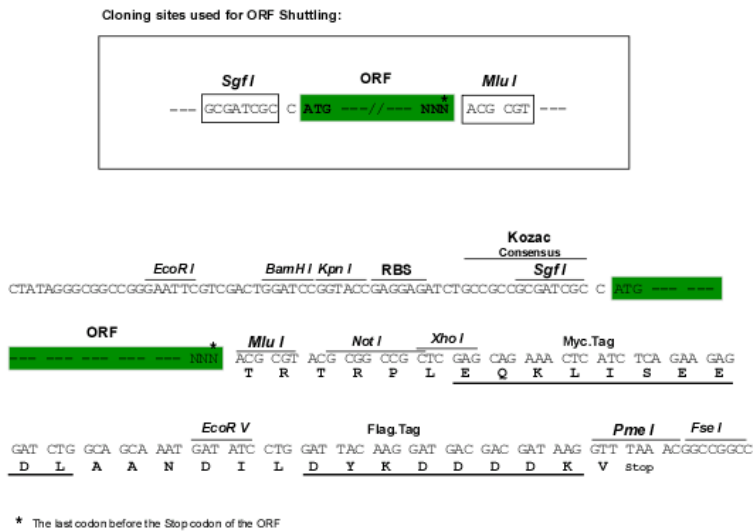
Protein Sequence: >MR205104 representing BC009101
 Red=Cloning site Green=Tags(s)

MDIHGAGKMQSPKKLCQRPCLESQRALLMLNGAKRKQAEGRPELLELNRAKCSSSLKLLKKKSEELSCSK
 ENCPSLVTKMNFHKTNLKGETALHRVCIKNOVEKLIILLSLPGIDINVKDNAGWTPLEACNYGNTCEVQ
 EILQRCPEVDLLTQVDGVTPLHDALSNGHVEIGKLLLQRGGPELLQQRNSKGELPLDYVLSPKDKEELFA
 ITNIDDTVDNFHAKTQKHFYHQQLFEGSFLLSRMLINFCSIFDLSEFILAFAKGLGHLNELLMACNSDTE
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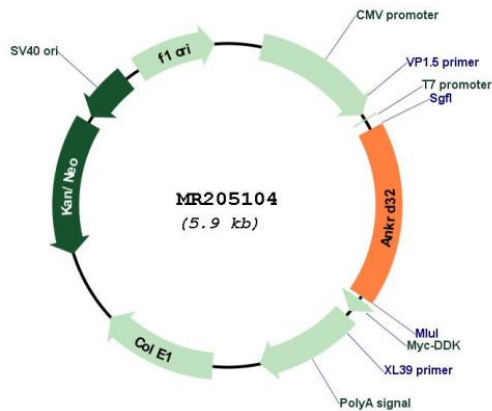
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: BC009101

ORF Size: 1020 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:	<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:	BC009101.1
RefSeq Size:	1601 bp
RefSeq ORF:	1022 bp
Locus ID:	105377
Cytogenetics:	13 C1
MW:	38.1 kDa
Gene Summary:	Plays a role in the DNA damage response (DDR) pathway by regulating postreplication repair of UV-damaged DNA and genomic stability maintenance. The SLF1-SLF2 complex acts to link RAD18 with the SMC5-SMC6 complex at replication-coupled interstrand cross-links (ICL) and DNA double-strand breaks (DSBs) sites on chromatin during DNA repair in response to stalled replication forks. Promotes the recruitment of SLF2 and the SMC5-SMC6 complex to DNA lesions.[UniProtKB/Swiss-Prot Function]