

## Product datasheet for **MG205104**

### Ankrd32 (BC009101) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ankrd32 (BC009101) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ankrd32
Synonyms:	2700017A04Rik; Ankrd32; AW545819; Brctd1; Brctx; C730024G01Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	<p>&gt;MG205104 representing BC009101</p> <p>Red=Cloning site Blue=ORF Green=Tags(s)</p>

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGC**

ATGGACATACATGGGGCTGGAAGATGCAGAGTCCAAAAAACTCTGCCAGCGGCCTTGCTAGAGTCTC  
 AAAGAGCATTACTAATGCTGAATGGTGCAAAACGGAAACAAGCAGAAGGTCGGCCAGAGCTCCTAGAGTT  
 AAACCGTGCTAAATGTTCTCATCATTGAAAAAATTGAAAAAGAAGTCAGAGGAATTGTCATGTTCCAAG  
 GAGAATTGCCCATCTTTGGTTACAAAGATGAATTTTCATAAACTAATCTGAAAGGGGAAACAGCTCTGC  
 ATAGAGTTTGCAAAAAACCAAGTGGAGAAATTGATTATCCTTCTGTCTTGCCAGGAATAGACATCAA  
 TGTTAAAGACAATGCTGGCTGGACGCCTTTCATGAAGCCTGCAACTATGGCAACACGGAGTGTGTCCAG  
 GAAATTCTGCAGCGTTGTCCAGAGGTGGATCTGCTCACTCAAGTGGACGGGGTGACGCCTTTGCATGATG  
 CGCTGTCAAACGGACATGTGGAGATTGGCAAGCTGCTTCTACAGCGTGGGGGCCAGAACTTTTACAGCA  
 GAGGAACCTAAGGGGGAGTTGCCCTTGGATTATGTGCTGTCCCCTAAGGACAAGGAAGAACTATTTGCC  
 ATTACAAATATAGACGATACAGTGGACAACCTTTCATGCTAAGACACAGAAACATTTTACCACCAACAGC  
 TTGAATTTGGTTCGTTTTTACTTAGTAGGATGTTGATTAATTTTTGTTCAATATTTGATTGTCTCAGAA  
 ATTTATCCTAGCTTTCAAAGGGTTAGGTCATCTAAATGAGTTGCTTATGGCATGCAATAGTGATACAGAA  
 GCCAGCAATGCACATACTGACTGGTTATTGGATGTTTATGCTAGGAATATAAAGACATTAAGAAGCTCC  
 CAAGTGTTCTTAAAGAGCTGCCTGAGAATCTAAATGTATGCTCTGGAGTGCACTAGAGCCTTACTGGT  
 GACACTGAAAATGATGTGTCAGTCAATCACAGAGCTGTCA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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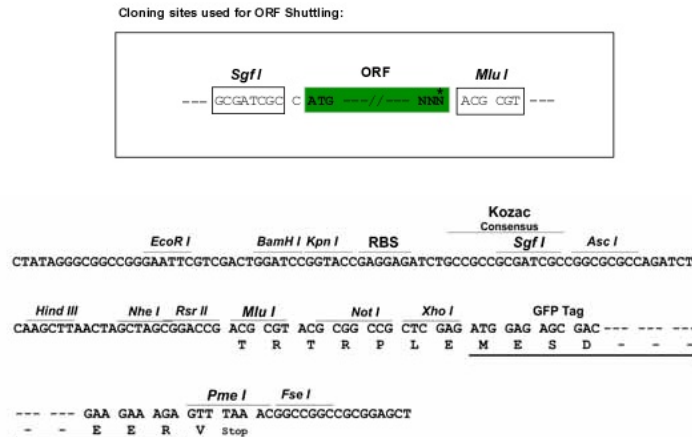
**Protein Sequence:** >MG205104 representing BC009101  
 Red=Cloning site Green=Tags(s)

MDIHGAGKMQSPKKLCQRPCLESQRALLMLNGAKRKQAEGRPELLELNRAKCSSSLKKLKKKSEELSCSK  
 ENCPSLVTKMNFHKTNLKGETALHRVCIKNQVEKLIILLSLPGIDINVKDNAGWTPLHEACNYGNTECVQ  
 EILQRCPEVDLLTQVDGVTPLHDALSNGHVEIGKLLLQRGGPELLQQRNSKGELPLDYVLSPKDKEELFA  
 ITNIDDTVDFHAKTQKHFYHQQLFEGSFLLSRMLINFCSIFDLSEFILAFAKGLGHLNELLMACNSDTE  
 ASNAHTDWLLDVYARNIKTLKKLPSVLKELPENLVCPGVHTEALLVTLKMMCQSITELS

TRTRPLE – GFP Tag – V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** BC009101

**ORF Size:** 1023 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:** [BC009101.1](#)

**RefSeq Size:** 1601 bp

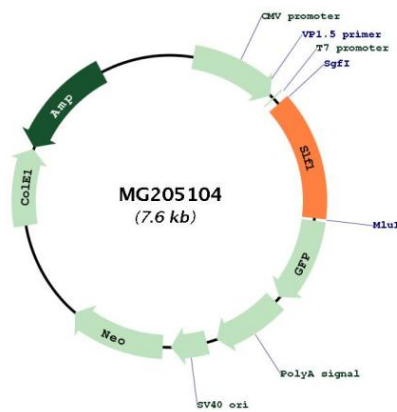
**RefSeq ORF:** 1022 bp

**Locus ID:** 105377

**Cytogenetics:** 13 C1

**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]

## Product images:



Circular map for MG205104