

Product datasheet for MR231550

Zranb3 (NM_001285945) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zranb3 (NM_001285945) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Zranb3
Synonyms:	4933425L19Rik; AH2; AI316834; C730006D09
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR231550 representing NM_001285945 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGGCTCACCATGCCTACAGCTGGTAGCAAGAAGAAGGCTCCACACCCGAGATTTCTTGTTAAACA
GCGAATCATATACACAGCTGGATTTTTACCGACAAGCTTAGAACAAAAGCTGCTCCGTTCCAAAAAGA
TGGCATCGTTTTGCCCTCAGAAGAGATGGCAGGTGTATGGTGGCTGATGAAATGGGTCTAGGAAAGACA
ATCCAGGCGATTGCAATTGCTTACTTCTACAAAGAGGAGTGGCCCTGCTGATAGTCGTCCTTCATCTC
TAAGATACCTTGGATAGAAGAACTAGAAAAATGGATCCCAGAGCTAGAGCCAGAGGAAATCAATGTCGT
CATGAACAAAAGTACATTGGGAGAATCCCGGGCAGCAGAGTGACAGTTCTGGGCTACGGTCTTTAACC
ACAGATGCAGAGACTTTGCTGGATGCACTGAACACGCAGAACTTCAGGGTCGTGATAGTGGATGAGTCAC
ACTACATGAAGTCCAGAAGTCTGCCCCGAGCAAGATTCTCCTGCCCATGGTGCAGAAGGCCAGGAGAGC
CATTCTTCTTACAGGAACCCAGCTCTGGGAAGGCCTGAGGAGCTTTTCATGCAGATTGAGGCTCTTTTC
CCAAAAAATTTGGAAGTGGATTGAGTATGCTAAAAGATACTGCAATGCACATGTCAGATACTTTGGCA
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GATCAGAAGACTAAAGAGTGAAGTTTTAAGCCAGCTGCCCCGAAAGTGCAGACAGCGCATTCCCTTTGAC
CTTCCCCAGCAGCTGTCAAGGAAGTGAATGCCAGCTTTGAAGAATGCCAGAACTAATGAGAGCTCCAA
ATTCAGGTGCCATGGAGACGGTTATGGGGTTGATAACACGCATGTTCAAACAGACTGCAATTGCCAAGGC
AGGTGCAGTGAAGGACTATATTAAGATGCTGCTTCAGAACGACTCCCTTAAATTTCTGGTCTTTGCGCAC
CATTAAAGTATGCTCCAGGCTTGACAGAAAGCAGTCATCGAAAGCAAGTCTCGTTACATCAGGATAGATG
GAAGTGTTCATCTCAGAAAGAATTCTGTTAATCAATTTCAGAAGGACCCCGATACTCGTGTGGC
TATCCTGAGCATTAGGCTGCTGGCCAGGGTTAACGTTTACTGCTGCGAGTCACGTTGTCTTTGCTGAG
TTGTAATTTCACTACCTTATTGCAAATGGTACTCTGGACAGCCTAATGTGGCAATGCTGAATCGAAAGGC
TCAGGTACAGGGAGCACACTGAATGGCAGGAAGGAGAACTCCAGGCTACGGAAGATGACAAGGAGAAG



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TGGGGTTTTCTGCAGTTTCTGGAAGCATGGACCCCAAGTGACAGTTTTGAAGAGCTCAAGGATTCTGTGT
 TTACTCACTTTGAAAAGAGAAACAGCATGATATTCGATCATTCTTACCAAACTGAAAAGAGACA
 GTTAGAAACGACCTGTGATGACCCAGAGGCATTCAAGGAGAAGATTACAGTGGCCTCGGACCCTAGAAAA
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 AGGAAGAGTCTCCTCAATGCTGCCTGGACTGCAAACTCCACTGGAGCAGCTAAATGAGATGCTGAGAA
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 CCTAGACAACCTGCAGACCCTCTGCACAGTGTGCCACAAGGAGAGAAGTCCAGCAGCAAGCAAGGAAGA
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR231550 representing NM_001285945
 Red=Cloning site Green=Tags(s)

MWLTMPAGSKKKAPTPQISCLTSESYTQLDFLPDKLRKLLPFQKDGIVFALRRDGRMVADEMGLGKT
 IQAIAIAYFYKEEWPLLIVVPSSLRYPWIEELEKWIPELEPEEINVVMNKTDIGRIPGSRVTVLGYLLT
 TDAETLLDALNTQNFVIVDESHYMKSRTAARSKILLPMVQKARRAILLTGTPALGRPEELFMQIEALF
 PQKFGTWIEYAKRYCNAHVRYFGKRRQWDCRGASNLSELHQLLNDIMIRRLKSEVLSQLPPKVRQRI
 LPPAAVKELNASFEWQKLMRAPNSGAMETVMGLITRMFKQTAIAKAGAVKDYIKMLLQNDSLKFLVFAH
 HLSMLQACTEAVIESKSRIRIDGSPSSERIHLVNQFQKDPDTRVAILSIQAAGQGLTFTAASHVVF
 AE LYWDPGHKQAEDRAHRIGQCSSVNIHYLIANGTLDLSLWAMLNRKAQVTGSLNKRKEKLQATEDDKEK
 WGFLQFAEAWTPSDSFEELKDSVFTHFEKEKQHDIRSFFLPKPKKRQLETTCCDDPEAFKEKITV
 ASDPRK MATSDSTADKNGCEPEAKRLKSLSTEDHSSALEEGPSLQARATSMEVVHEVKPPLASPALPEK
 GWQCGFC TFLNPNGLPYCEMCENPRSRAGRNLQDNKNDEDAQESTSKSDQAGLEECERQC
 PERLEAEQSANSKE EALEGGEDRLPSQPEIGQLNNSGTLPVRETFMFACASRNTDRIHLYTKDGKPM
 NCFIPLDIKLDLWEDLPATFQLKQNRSLILRFVREWSSLTAMKQVLRKSGQLFCSPLLA
 SEEITKQAKENNTRRYITKEDVAKA SMNKVSDGGHIRLITKESMTQDSSLKIDSACVPSLNPC
 PADLTVPEPSPSKGYIQAVDKEGRPLCLRCQHPTCQPEQTAKASAWDSRFLCSLKCQEEFWIR
 SNNSYLRAQVFATEHGVCQHCGVDAQELFLMRMDAPKSH RKSLNAAWTAKLPLEQLNEMLRNP
 GEGHFQVDHIRPVYEGGGQCSLDNLQTLCTVCHKERTAQQAKER SQVRRSLATKHGSDITRFLVKK

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001285945

ORF Size: 3219 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_001285945.1](#), [NP_001272874.1](#)

RefSeq Size: 4085 bp

RefSeq ORF: 3222 bp

Locus ID: 226409

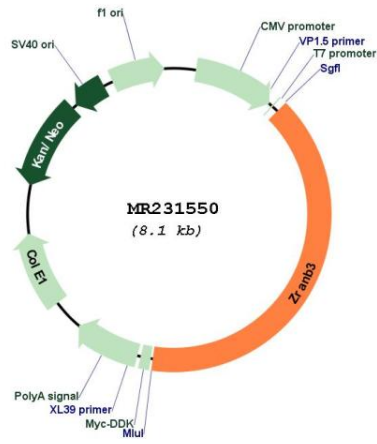
UniProt ID: [Q6NZP1](#)

Cytogenetics: 1 E3

MW: 121.9 kDa

Gene Summary: DNA annealing helicase and endonuclease required to maintain genome stability at stalled or collapsed replication forks by facilitating fork restart and limiting inappropriate recombination that could occur during template switching events. Recruited to the sites of stalled DNA replication by polyubiquitinated PCNA and acts as a structure-specific endonuclease that cleaves the replication fork D-loop intermediate, generating an accessible 3'-OH group in the template of the leading strand, which is amenable to extension by DNA polymerase. In addition to endonuclease activity, also catalyzes the fork regression via annealing helicase activity in order to prevent disintegration of the replication fork and the formation of double-strand breaks (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR231550