

Product datasheet for MC203475

Zranb3 (NM_027678) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zranb3 (NM_027678) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Zranb3
Synonyms:	4933425L19Rik; AH2; AI316834; C730006D09
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC066035

TGCATTTTGGCGGACTGTATAGGGCAAGAGATGGGAAATTGACTGCACTTTAATTGCGCTATAAGAAAAAT
 AGTGGGTAACAGTCGGGCGTGGTGGCTGATGCCTGTAACAGCTGGAAGCTGAAAGGTCGCCGCGAGTTCA
 TAGCCTGGGCTACAGAGCTCACCATGCCTACAGCTGGTAGCAAGAAGAAGGCTCCACACCCGAGATTTTC
 TTGTTTAAACAAGCGAATCATATACACAGCTGGATTTTTTACCGGACAAGCTTAGAACAAAAGTCTCCG
 TTCCAAAAGATGGCATCGTTTTTGGCCTCAGAAGAGATGGCAGGTGTATGGTGGCTGATGAAATGGGTC
 TAGGAAAGACAATCCAGGCGATTGCAATTGCTTACTTCTACAAAGAGGAGTGGCCCTGCTGATAGTCGT
 CCCTTCATCTCTAAGATACCTTGGATAGAAGAACTAGAAAAATGGATCCCAGAGCTAGAGCCAGAGGAA
 ATCAATGTCGTCATGAACAAAAGTACATTGGGAGAATCCCGGGCAGCAGAGTGACAGTTCTGGGCTACG
 GTCTCTTAACCACAGATGCAGAGACTTTGCTGGATGCACTGAACACGCAGAACTTCAGGGTCGTGATAGT
 GGATGAGTCACACTACATGAAGTCCAGAACTGCTGCCCGCAGCAAGATTCTCCTGCCATGGTGCAGAAG
 GCCAGGAGAGCCATTCTTCTACAGGAACCCAGCTCTGGGAAGGCCTGAGGAGCTTTTCATGCAGATTG
 AGGCTCTTTTCCACAAAAATTTGGAACCTTGATTGAGTATGCTAAAAGATACTGCAATGCACATGTCAG
 ATACTTTGGCAAAAGGCGTCAGTGGGACTGTAGAGGGGCATCAAACCTTAGTGAGCTTCACCAGCTCCTA
 AATGACATAATGATCAGAAGACTAAAGAGTGAAGTTTTAAGCCAGCTGCCCCGAAAGTCAGACAGCGCA
 TTCCCTTTGACCTTCCCCCAGCAGCTGTCAAGGAAGTGAATGCCAGCTTTGAAGAATGGCAGAACTAAT
 GAGAGCTCCAAATTCAGGTGCCATGGAGACGGTTATGGGGTTGATAACACGCATGTTCAACAGACTGCA
 ATTGCCAAGGCAGGTGCAGTGAAGGACTATATTAAGATGCTGCTTCAGAACGACTCCCTTAAATTTCTGG
 TCTTTGCGCACCATTAAAGTATGCTCCAGGCTTGACAGAAAGCAGTCATCGAAAGCAAGTCTCGTTACAT
 CAGGATAGATGGAAGTGTTCATCTTCAGAAAGAATTCACTCTGGTTAATCAATTCAGAAGGACCCCGAT
 ACTCGTGTGGCTATCCTGAGCATTGAGGCTGCTGGCCAGGGTTTAACTTTACTGCTGCGAGTCACGTTG
 TCTTTGCTGAGTTGTACTGGGACCCTGGACATATCAAACAAGCAGAAGACCGAGCTACCGAATCGGACA
 GTGCAGTTCTGTGAATATTCACCTACCTTATTGCAAATGGTACTCTGGACAGCCTAATGTGGGCAATGCTG
 AATCGAAAGGCTCAGGTACAGGGAGCACACTGAATGGCAGGAAGGAGAACTCCAGGCTACGGAAGATG
 ACAAGGAGAAGTGGGGTTTTCTGAGTTTGTGTAAGCATGGACCCCAAGTGACAGTTTGAAGAGCTCAA
 GGATTCTGTGTTTACTCACTTTGAAAAAGAGAAACAGCATGATATTGATCATTCTTCTTACCAAACTG
 AAAAAGAGACAGTTAGAAACGACCTGTGATGACCCAGAGGCATTCAAGGAGAAGATTACAGTGGCCTCGG


[View online »](#)

```

ACCCTAGAAAAATGGCTACAAGTGATAGCACTGCTGACAAAAATGGGTGTGAGCCTGAAGCTAAAAGGTT
GAAGTCCCTGAGCACCGAGGACCACAGCAGTGCCTGGAGGAAGGACCGTCTTGAAGCCAGAGCCACA
TCCATGGAAGTTGTCCATGAGGTCAAGCCCCATTGGCTTCTCCAGCCCTTCTGAGAAGGGATGGCAGT
GTGGCTTCTGCACATTCTCAACAACCCAGGCCTTCCATACTGTGAGATGTGTGAGAACCCTCGGAGCAG
AGCTGCTGGCCGAACCATCTTCAGGATAACAACAAAAATGATGAAGACGCTGCTCAGGAAAGCACCTCC
AAAAGTGATCAAGCTGGTTTGGAGTGTGAAAGGCAATGCCCTGAACGGTTGGAAGCTGAGCAGTCGGCTA
ATAGCAAGGAAGAGGCATTGGAAGGTGGAGGGGAAGACAGACTGCCATCTCAGCCAGAGATTGGGCAGTT
GAATAATTCAGGCACTCTGCCAGTGCGTGAGACCTTCATGTTTTGTGCAAGCAGAAACACCGACCCGGATC
CACCTCTATACCAAGGATGGAAGCCAATGAACTGCAATTTTATTCTTTGGATATAAAGTTAGACCTTT
GGGAAGACTTACCAGCAACCTTTCAACTGAAACAGAATCGCTCTCTGATTCTAAGGTTCTGTCGAGAGTG
GAGTAGTCTGACTGCCATGAAGCAGAGAGTTCTCAGGAAAAGTGGTCAGCTGTTCTGCAGCCCACTGCTG
GCTTCGGAAGAGATCACAAAGCAACAAGCCAAGGAAAATAATACTAGAAGATACATCACTAAAGAAGATG
TTGCCAAGGCTTCCATGAATAAGGTGAAAAGTGATGGGGGCCACATCCGTCCTATACCAAGGAATCCAT
GACCCAGGACTCTTCTCTAAAAAAGATTGATAGCGCTGTGTCCATCTCTGAATCCCTGCCAGCGGAT
CTCACTGTTGAGCCATCCCCATCAAAGGCTACATTGAGCGGTGGATAAGGAAGGAAGGCCACTCTGCC
TCCGCTGCCAGCATCCCACCTGCCAGCCTGAGCAACAGCCAAAGCCAGTGCCTGGGACTCACGGTTCTG
CTCCCTGAAATGTCAGGAAGAATTCTGGATCCGATCCAATAACAGTTACCTGAGAGCCCAGGTGTTTGCA
ACAGAACATGGTGTGTGTGAGCACTGTGGTGTGGACGCACAGGAGCTCTTCTGCGGATGAGAGATGCC
CTAAAAGTCACAGGAAGAGTCTCCTCAATGCTGCCTGGACTGCAAACTCCCACTGGAGCAGCTAAATGA
GATGCTGAGAAACCCAGGAGAAGGCCACTTCTGGCAGGTGGATCAGATCAGGCCAGTGTATGAGGGAGGT
GGACAGTGCTCCCTAGACAACCTGCAGACCCTCTGCACAGTGTGCCACAAGGAGAGAACTGCCAGCAAG
CCAAGGAAAGAAGTCAGGTGAGACGACTCTCTTGGCAACAAAGCACGGATCAGACATCACCCGGTTTCT
GGTGAAGAAGTAAGGCGAGATATAAACAGAAAGCAGATGGCCTGCAGGCAGAAAGCAGTTGTACAATTCT
CTTCATGTATGTCTAGTATTTTAAAGATAGGAAGTTTTTAAATATAAGTCAATAACTGAAATTTAGATTT
TTGCTAAGCTCTCTTAGTGTACATACTTAACAGAAACTGAGGGATGATGGGAAGATTCTGGGGTCTTCC
TGACTCATGAAGATTGTCAATTATGTTTCAGCAAGATTTTGTTCGCTTTTTTCCCTTCTACACCTTA
ATCACTGCATTGGGCATGGATAGTGTGGGACAAATATATTCACGCAAACTGACAGCTCTTGATCACCAT
TGCTTCTGGACTGTGTAGTATAAAGGGAACATTCCAGAACATCAGGGACATTTTGGAGACAAGCCATGA
TTAGTAAGGAATGATTACAGCTCAGGCGCATGTTTGGGGTGCAGCCTCCTTGCTGATTTCTGGGCCAGT
CCTCTTCATTGAAGAGATGCTTTTGTAAATGAACTGATTGTAAGCTCACATGGTGTCTGTGTACAATGC
TGTGCTCTGAGTAACCATGAGAACAAAGTGAGAGACCACAGTGCCGCACAGCCTCGCTTCTGTTTTCTGT
TTGCTCCCTTGTTTCTGTCTGATGTTTTGTTTTGTTTTAATGTATAAAATCAGGCTAATTGTCAAAACAG
ATTTTGTCTCCTGGTCTCGTTTCTGGTTTTAAATCCTGGTAGTGATTGTTTTGTTCTGTTCTTTCA
ATAAACCTTGTAATTTTTTAAAAATAAAAAAAAAAAAAAAAAAAAA

```

Restriction Sites:

Ascl-NotI

ACCN:

NM_027678

Insert Size:

3210 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>BC066035</u> , <u>AAH66035</u>
RefSeq Size:	4176 bp
RefSeq ORF:	3210 bp
Locus ID:	226409
UniProt ID:	<u>Q6NZP1</u>
Cytogenetics:	1 E3
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]