

Product datasheet for **MC229339**

Zranb3 (NM_001285945) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Zranb3 (NM_001285945) Mouse Untagged Clone
Tag: Tag Free
Symbol: Zranb3
Synonyms: 4933425L19Rik; AH2; AI316834; C730006D09
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC229339 representing NM_001285945
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGTGGCTCACCATGCCTACAGCTGGTAGCAAGAAGAAGGCTCCACACCCGAGATTTCTTGTTAAACA
GCGAATCATATACACAGCTGGATTTTTACCGACAAGCTTAGAACAAAAGCTGCTCCGTTCCAAAAAGA
TGGCATCGTTTTGCCCTCAGAAGAGATGGCAGGTGTATGGTGGCTGATGAAATGGGTCTAGGAAAGACA
ATCCAGGCGATTGCAATTGCTTACTTCTACAAAGAGGAGTGGCCCTGCTGATAGTCGTCCTTCATCTC
TAAGATACCCCTGGATAGAAGAACTAGAAAAATGGATCCCAGAGCTAGAGCCAGAGGAAATCAATGTCGT
CATGAACAAAAGTACATTGGGAGAATCCCGGGCAGCAGAGTGACAGTTCTGGGTACGGTCTCTTAACC
ACAGATGCAGAGACTTTGCTGGATGCACTGAACACGCAGAACTTCAGGGTCGTGATAGTGGATGAGTCAC
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CCACAAAATTTGGAACCTGGATTGAGTATGCTAAAAGATACTGCAATGCACATGTCAGATACTTTGGCA
AAAGCGTCAGTGGGACTGTAGAGGGGCATCAAACCTTAGTGAGCTTACCAGCTCCTAAATGACATAAT
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CTTCCCCCAGCAGCTGTCAAGGAACTGAATGCCAGCTTTGAAGAATGGCAGAAAATAATGAGAGCTCCAA
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TCAGGTACAGGGAGCACACTGAATGGCAGGAAGGAGAACTCCAGGCTACGGAAGATGACAAGGAGAAG
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TTACTCACTTTGAAAAAGAGAAACAGCATGATATTCGATCATTCTTCTTACAAAACTGAAAAAGAGACA
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CTGCCATGAAGCAGAGAGTTCTCAGGAAAAGTGGTCAGCTGTTCTGCAGCCACTGCTGGCTTCGGAAGA
GATCACAAGCAACAAGCCAAGGAAAATAATACTAGAAGATACATCACTAAAGAAGATGTTGCCAAGGCT
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CATCCCACCTGCCAGCCTGAGCAAAACAGCCAAAGCCAGTGCCTGGGACTCACGGTTCTGCTCCCTGAAAT
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AGGAAGAGTCTCCTCAATGCTGCCTGGACTGCAAACTCCCACTGGAGCAGCTAAATGAGATGCTGAGAA
ACCCAGGAGAAGGCCACTTCTGGCAGGTGGATCACATCAGGCCAGTGTATGAGGGAGGTGGACAGTGTCT
CTAGACAACCTGCAGACCCTCTGCACAGTGTGCCACAAGGAGAGAAGTCCAGCAAGCCAAGGAAAGA
AGTCAGGTGAGACGACTCTCTCTGGCAACAAGCACGGATCAGACATCACCCGGTTTCTGGTGAAGAAGT
AA
    
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001285945
- Insert Size:** 3222 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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

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]