

Product datasheet for **SC337838**

ZRANB3 (NM_001286568) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZRANB3 (NM_001286568) Human Untagged Clone
Tag:	Tag Free
Symbol:	ZRANB3
Synonyms:	4933425L19Rik; AH2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001286568, the custom clone sequence may differ by one or more nucleotides

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ATGCCTAGGGTTCATAACATAAAAAAGTCTCTTACACCTCACATTTCTTGTGTGACAAATGAATCTGATA
ATCTGCTGGATTTTTCCTGACAGACTAAGAGCAAAGCTACTTCCATTCCAGAAAGATGGCATCATTTT
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TGATGTTAGGAGAATGTCGACCAGTAAAGTGACAGTTCTGGGTTATGGTCTCTTAACCGCAGATGCAAG
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CCAGAAATGCAACTCGCAGCAGGATTTTATTGCCAATAGTACAGAAAGCCAGACGAGCCATTCTTCTTAC
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CTCCTGTGACGAATCAAAGAGATTCCGGGAGGAAAATACTGTAGTGTCATCAGACCCTACAAAAACAGCT
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CCTAAAAGTCAGAGGAAGAATCTTCTGTATGCTACCTGGACTTCAAAGCTCCATTAGAACAGCTAAATG
AAATGATAAGAAACCCAGGGGAAGGACATTTCTGGCAGGTGGATCACATCAAGCCAGTGTATGGGGGAGG
AGGACAGTGTTCCTGGACAACCTGCAGACTCTCTGCACAGTCTGTACAAAGAGAGAAGTCCAGACAA
GCTAAGGAAAGAAGCCAGGTGAGAAGACAATCTCTAGCATCAAAGCATGGATCAGACATCACACGATTTT
TGGTAAAGAAGTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001286568

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.

RefSeq: NM_001286568.1, NP_001273497.1

RefSeq Size: 6829 bp

RefSeq ORF: 3234 bp

Locus ID: 84083

UniProt ID:	<u>Q5FWF4</u>
Cytogenetics:	2q21.3
Protein Families:	Druggable Genome
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 (PubMed:21078962, PubMed:22704558, PubMed:22705370, PubMed:22759634, PubMed:26884333). 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 (PubMed:22759634). 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 (PubMed:22705370, PubMed:22704558). [UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (2) differs in the 5' UTR and uses an alternate splice site in the central coding region compared to variant 1. The encoded isoform (2) is shorter than isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.