

## Product datasheet for **MC228980**

### Znrf3 (NM\_001290501) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Znrf3 (NM_001290501) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Znrf3
Synonyms:	Gm1167
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC228980 representing NM\_001290501  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGATGCACCCACTAGGCTATGTAATAACAATGACGAAGAGGACTTGTATGAATATGGCTGGGTAGGAG  
 TGGTGAAGCTTGAACAGCCAGAATTGGACCCCAAACCATGTCTCACTGTCTGGCAAGGCCAAGAGAGC  
 AGTTCAGCGGGGAGCTACTGCAGTTATCTTTGATGTATCTGAAAAATCCAGAAGCCATCGACCAGCTAAAC  
 CAAGGCTCAGAAGACCCTCTTAAGAGGCCAGTGGTGTATGTGAAGGGTGCAGATGCTATCAAGCTGATGA  
 ACATTGTCAACAAGCAGAAAGTAGCTCGAGCAAGGATCCAGCACCTCCCTCCTCGACAACCCACCGAGTA  
 CTTTGACATGGGAATTTCTGGCCTTCTTCGTCGTGGTCTCCTTGGTCTGCCTCATTCTCCTTGTCAAA  
 ATCAAGCTGAAGCAACGTCGTAGTCAGAATTCATGAACAGGCTGGCTGTGCAGGCTCTGGAGAAGATGG  
 AAACCAGAAAGTTCAACTCCAAGAGCAAGGGGCGCCGGGAAGGAAGCTGTGGGGCCCTGGACACACTGAG  
 CAGCGGCTCCACATCCGACTGTGCCATCTGTCTGGAGAAGTACATTGACGGAGAGGAGCTTCGGGTATC  
 CCTTGTACTCATCGGTTCCACAGGAAGTGTGTGGATCCATGGCTACTGCAGCACCAACCTGCCCCCACT  
 GTCGGCACAACATCATAGAACAAGGGAAATCCAGGTGCTGTTGTGTGGAGACAAGCAACCTTACACG  
 TGGTCGGCAGCCAAGAGTGACCTACCGGTACATTACCCAGGCCGTGTGCATAGGACCAATGCCATCCCA  
 GCCTACCTACTAGGACAAGTATGGACTCCCATGGCAACCCTGTCACTGTCTAACCATGGACCGGCATG  
 GGGAGCAGAACCTCTATTCTCCACAACACCCACCTATGTCCGTGGTACCCACCCCTGCACCTGGACCA  
 CACTCTGGCCCTCATCGCTGCAGCCTGGAACACCGGGCCTACTACCAGCCATCCCTTCCGACGGCCC  
 AAGTTCAGCAGCCGACGTTCTCAAGGCAGCTTGCTTCTCCAGTATGAGACCATGTACCAACTACTACT  
 ACTTCCAGGGTCTCAGCTACCCAGAGCAGGAGGGCCAGACAATACCCAGCGTCACACCCAGGGGCCAATC  
 CCGTGCCTTCCACCAAGTGGTGGCAGCAGCCTGCTCTTCCCAATGGTACATGTGGCCCTCCAACC  
 CACGTGGAGAGTGGCAGCACATCTAGTTCAGTTGCTATCATGGGCACCGTTCTGTGTAGCGGCTACC  
 TGGCTGACTGTCTGGCAGCGATAGCAGCAGCAACAGCTCTGGCCAGTGGCGTCTCTTCCAGTGACTC  
 CGTGGTGGACTGCACAGAAGTCAGCAACCAAGGTGTGTATGGGAGCTGTTCCACCTTCCGAAGCTCCCTC  
 AGCAGCGACTATGACCCCTTCTACTACCGCAGCCGGGGCCTGCTGTGCACCTTGAGGGCTCCCCTCCAC  
 CAGAGGAGCTCCCAGCAGGACACAGTCAAAGTGTGGGAGGGGCGAGCCATGGCTAGGCCCTGCCTCTCC  
 CTCAGGGGACCAGCTGTCCACCTGCAGCCTGGAGATGAACTACAGCAGCAACTCCTCGTGAACCCAGA  
 GGGCCCAACAGCTCTACCTCAGAAGTGGGGCTCGAGGTTTCTCCTGGGGTGGCCCTGAGCCTCAGGAGGA  
 CCTGGAAGGGGGTCCAGAGGGACCATCATGTGCTTGCTGCTTCGAGCCCAAGCCCTTCCCGCCGGGCTC  
 TGGGATAGAAACAAGTGCAGGTGGCAGCAGTTTATTCTGGGTCTCGGCTCCTCGAGGACTGCAACCCCT  
 CCAAGTGGGGAGCCACAGCTGGGGAGCTCCCAGGGCCTGTATGGTCTTCACTCAGACCATTATCCTAGGA  
 CAGATGGGGTGAATAATGAGGGCTTGCCTGCTGCTTCTATGAAGAGAAGCAGGTGGCCACAGTGTGG  
 CAGGGGCAATGGCTGCTACACTGAGGACTATTCAAGTGTGTACAGTACACACTACCCGAGGAACCCCA  
 CCCAGCTGTTATGCAGGGCCCGGGACCTGAGCCAGCGCATCCCCATTATCCAGAGGATGTAGACTGTG  
 ACTTGGGCTTGGCCCAAGACTGCCACGGGATGCACAACCAAGCCCTGGGGTGGGGCACTGAGCTTGA  
 CGTTCGCCGACTCCACTGGAGTCTAGGCACAACCCGGGAAGAGGAACAGGCTCCATGTTACCAAGCTGAG  
 GTGCAGCCTGGCTGCTCTCCAGAGGAGGCAGGTGCTTCCAGGGTACCTCTCCAGTCCCCCAGGACA  
 CTCAGGAGTCTCATGCCCTGGCTGCTGAGGCTTCAGGTGAGAACAGATGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001290501  
**Insert Size:** 2430 bp

<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u>NM_001290501.1, NP_001277430.1</u>
<b>RefSeq Size:</b>	7199 bp
<b>RefSeq ORF:</b>	2430 bp
<b>Locus ID:</b>	407821
<b>UniProt ID:</b>	<u>Q5SSZ7</u>
<b>Cytogenetics:</b>	11 A1
<b>Gene Summary:</b>	<p>E3 ubiquitin-protein ligase that acts as a negative regulator of the Wnt signaling pathway by mediating the ubiquitination and subsequent degradation of Wnt receptor complex components Frizzled and LRP6. Acts on both canonical and non-canonical Wnt signaling pathway. Acts as a tumor suppressor in the intestinal stem cell zone by inhibiting the Wnt signaling pathway, thereby restricting the size of the intestinal stem cell zone (PubMed:22575959, PubMed:22895187). Along with RSPO2 and RNF43, constitutes a master switch that governs limb specification (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR and 5' coding sequence, compared to variant 1. The encoded isoform (2) has a shorter and distinct N-terminus, compared to 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.</p>