

## Product datasheet for **MC218756**

### Znrf1 (NM\_133206) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Znrf1 (NM\_133206) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Znrf1  
**Synonyms:** B830022L21Rik; nin283; Rnf42; Zrfp1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Fully Sequenced ORF:** >MC218756 representing NM\_133206  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGGGCAAGCAGAGCACGGCGGCCGCTCTCGGGGCCCTCCCGGGGTCTCTACGGATGACAGCG  
CCGTGCCCGCCGGGAGGGGCGCCCACTTTGGGCACTACCGGACGGCGGGGGCGATGGGGCTGCG  
CAGCCGCTCGGTCAGCTCGGTGGCGGCATGGGCATGGACCCAGCACGGCCGGAGGGGTGCCCTTAGT  
CTCTACACCCCGCTCCCGGGACCGCGACTCCGAGAGGGCGCGGGCGGGAGGGTCCACGTCGG  
ACTCCACCTATGCCACGCAATGGTTACCAAGAGACCGCGCGGTACCATAGAGACGGGATGCTGTA  
CCTGGGCTCCCGAGCCTCGCTGGCGGATGCTCTACCTCTGCACATCGCACCCAGGTGGTTCAGCTCGCAC  
AGTGGTTTCAAGTGCCCCATTTGTTCCAAGTCTGTGGCTCCGATGAGATGGAAATGCACCTTATAATGT  
GTCTGAGCAAGCCTCGCCTGTCTACAATGATGATGTGCTGACTAAAGATGCGGGTGAGTGTGTGATCTG  
CCTGGAGGAGCTGCTTCAGGGGACACGATAGCCAGGCTGCCTTGCTGTGCATCTATCACAAAAGCTGC  
ATAGACTCATGTTTGAAGTGAACAGATCTTGCCAGAGCACCCCTGCTGACT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_133206  
**Insert Size:** 684 bp



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<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>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><a href="#">NM_133206.3</a></u> , <u><a href="#">NP_573469.1</a></u>
<b>RefSeq Size:</b>	5562 bp
<b>RefSeq ORF:</b>	684 bp
<b>Locus ID:</b>	170737
<b>UniProt ID:</b>	<u><a href="#">Q91V17</a></u>
<b>Cytogenetics:</b>	8 E1
<b>Gene Summary:</b>	<p>E3 ubiquitin-protein ligase that mediates the ubiquitination of AKT1 and GLUL, thereby playing a role in neuron cells differentiation. Plays a role in the establishment and maintenance of neuronal transmission and plasticity. Regulates Schwann cells differentiation by mediating ubiquitination of GLUL. Promotes Wallerian degeneration, a neurodegeneration disorder, by mediating 'Lys-48'-linked polyubiquitination and subsequent degradation of AKT1 in axons: degradation of AKT1 prevents AKT1-mediated phosphorylation of GSK3B, leading to GSK3B activation and phosphorylation of DPYSL2/CRMP2 followed by destabilization of microtubule assembly in axons.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (a). Variants 1, 2, and 5 all encode the same isoform (a). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>