

## Product datasheet for **MG202714**

### Znrf1 (NM\_133206) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Znrf1 (NM\_133206) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Znrf1  
**Synonyms:** B830022L21Rik; nin283; Rnf42; Zrfp1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG202714 representing NM\_133206  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGGGGCAAGCAGAGCACGGCGGCCCTCTCGGGGCCCTCCCGGGGTCTCTACGGATGACAGCG  
 CCGTGCCGCCCGGGAGGGGCGCCCACTTTGGGCACTACCGGACGGCGGGGGCGATGGGGCTGCG  
 CAGCCGCTCGGTCAGCTCGGTGGCGGCATGGGCATGGACCCAGCACGGCCGGAGGGTGCCTTTAGT  
 CTCTACACCCCGCTCCCGGGACCGCGACTCCGAGAGGGCGCGGGCGGGAGGGTCCACGTCGG  
 ACTCCACCTATGCCACGCAATGGTTACCAAGAGACCGCGGGTCCCATAGAGACGGGATGCTGTA  
 CCTGGGCTCCCGAGCCTCGTGGCGGATGCTCTACCTCTGCACATCGCACCCAGGTGGTTCAGCTCGCAC  
 AGTGGTTTCAAGTGCCCCATTTGTTCCAAGTCTGTGGTTCGGATGAGATGAAAATGCACTTTATAATGT  
 GTCTGAGCAAGCCTCGCCTGTCTACAATGATGATGTGCTGACTAAAGATGCGGGTGAAGTGTGATCTG  
 CCTGGAGGAGCTGCTCAGGGGACACGATAGCCAGGCTGCCTTGCTGTGCATCTATCACAAAAGCTGC  
 ATAGACTCATGGTTGAAGTGAACAGATCTTGCCAGAGCACCCCTGCTGAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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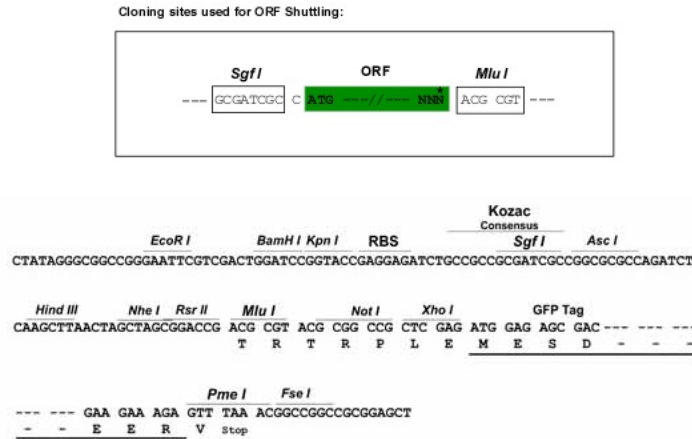
**Protein Sequence:** >MG202714 representing NM\_133206  
Red=Cloning site Green=Tags(s)

MGGKQSTAARSRGPFPGVSTDDSAVPPPGGAPHF GHYRTGGGAMGLRSRSVSSVAGMGMDPSTAGGVFSS  
 LYTPASRGTGDSERAPGGGGSTSDSTYAHNGYQETGGGHRDGM LYLGSRASLADALPLHIAPRWFSSH  
 SGFKCPICSKSVASDEMEMHFIMCLSKPRLSYNDVLT KDAGECVICLEELLQGD TIARLPCLCIYHKSC  
 IDSWFEVNRSCPEHPAD

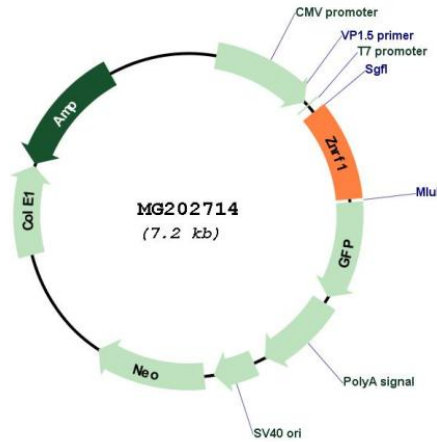
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_133206

**ORF Size:** 5559 bp

<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_133206.4</a>
<b>RefSeq Size:</b>	3125 bp
<b>RefSeq ORF:</b>	684 bp
<b>Locus ID:</b>	170737
<b>UniProt ID:</b>	<a href="#">Q91V17</a>
<b>Cytogenetics:</b>	8 E1
<b>Gene Summary:</b>	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]