

## Product datasheet for **MG215957**

### Sh3rf2 (NM\_001146299) Mouse Tagged ORF Clone

#### Product data:

<b>Product Type:</b>	Expression Plasmids
<b>Tag:</b>	TurboGFP
<b>Symbol:</b>	Sh3rf2
<b>Synonyms:</b>	2310046K19; 9130023G24Rik; AI452083; Ppp1r39; RNF158
<b>Mammalian Cell Selection:</b>	Neomycin
<b>Vector:</b>	pCMV6-AC-GFP (PS100010)
<b>E. coli Selection:</b>	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >MG215957 representing NM\_001146299  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGATGATTTGACGTTACTTGATCTCCTGGAGTGCCCTGTGTGCTTTGAAAAGCTCGATGTCACAGCCA  
AAGTTCCTCCCTGCCAGCACACCTTCTGCAAACCATGTCTACAGAGGATTTTCAAGGCCACAAGGAGCT  
GAGGTGCCCGGAATGCAGGACTCTGGTGTCTGCGACATCGAGGCTCTGCCAGCCAACCTGTTGCTCGTG  
CGTTTGTGGATGGTGTGCGTTCGGACAGAGCTCGTGAAAGGAGGCTCCTCCGAAGGCCTCGGATAC  
TGACCTTGACAGACAACAGGAAAGCAAGAGCAGCCCCAGAAGTCTACAGGCTAGCCCTTTCCGGCTGGT  
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CCCGATGCTCATCAGCTTAACAGCCCTCTGTGCTCACCAACATGGGGACAAGGCAGACTTCCCTACC  
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CAACAGCTAGAAAGACATCTAGTTTTCTGATTCGCGAGCCCACTGTCTGCACCACATGGGCGTTATC  
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CTCTTAGGAAAGTGGGAGCAGCATGAGAAAAATGGATCCCTGCAGAGACCAGTTCAATCCGGGATCCC  
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ACAGCCCTCCGCCACCAAACTCTGCTCCAGTCCACCTCTGAAAAGCACGACCATCCAGCCACCTT  
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TGCCACTCCGGCAACAAACAGACCTTCGGAGAAAGTACGCTTTGGCAAGACCATGCCCTATTGTCCA  
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ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

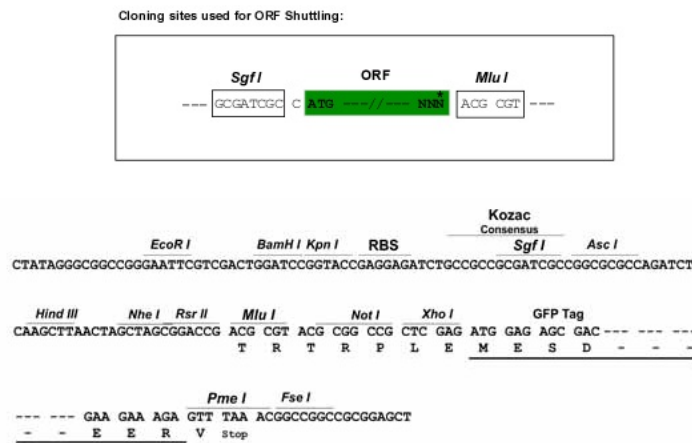
**Protein Sequence:** >MG215957 representing NM\_001146299  
 Red=Cloning site Green=Tags(s)

MDDLTLDDLLECPVCFEKLDVTAKVLPQHTFCKPCLQRIFKAHKELRCPECRTLVFCSIEALPANLLL  
 RLLDGVRSQSSWKGGSFRRPRILTLQDNRKAKSSPRSLQASPFRLVPSVRIHMDGVPRAKALCNYRGKN  
 PGDLKFNKGDVILLRRQLDENWYQGEINGVSGIFPASSVEVIKQLPQPPPLCRALYNFDLRDKDKSENQD  
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 SSTGQVSSSQPAPASPGHSTAMVSVSPSSQHLNNMFVALHTYSARPEELDLQKGEIRVLGKYQDGLW  
 KGLSLLTGRGTGIFPSDYVIPVFSSTARKTSSFPDSRSPTVCTTVALSTSSVSSQGSFAEGDPRQSGPFKS  
 VFVPTAVVNPSSRSTPGPGSSGQSLRKVRSSMRKNGSLQRPVQSGIPTFMVGLRCSPTMVIQRFQFY  
 PPQGMTPSPTPIMVEMGSKSIYTGEPALTCINRGSKTRIHSAGNSIIMEGKETPIKSEPPKPPASAPS  
 ILVKPENSKNGTEKQVKTVRFQNYSPPTKHSASSPTSGKHDHPATLKGQSHEAVSSGGEMTILFAHRSG  
 CHSGQQTDLRRKSAFGKTMPLLLSTASATQTLFPSK

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001146299

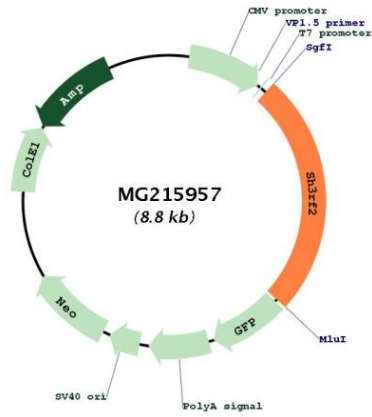
**ORF Size:** 2205 bp

**OTI Disclaimer:** 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. [More info](#)

**OTI Annotation:** 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>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">NM_001146299.1</a> , <a href="#">NP_001139771.1</a>
<b>RefSeq Size:</b>	4784 bp
<b>RefSeq ORF:</b>	2208 bp
<b>Locus ID:</b>	269016
<b>UniProt ID:</b>	<a href="#">Q8BZT2</a>
<b>Cytogenetics:</b>	18 B3
<b>Gene Summary:</b>	Has E3 ubiquitin-protein ligase activity. Acts as an anti-apoptotic regulator of the JNK pathway by ubiquitinating and promoting the degradation of SH3RF1, a scaffold protein that is required for pro-apoptotic JNK activation. Facilitates TNF-alpha-mediated recruitment of adapter proteins TRADD and RIPK1 to TNFRSF1A and regulates PAK4 protein stability via inhibition of its ubiquitin-mediated proteasomal degradation. Inhibits PPP1CA phosphatase activity (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG215957