

## Product datasheet for **MG217516**

### Sh3rf2 (NM\_172966) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sh3rf2 (NM_172966) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sh3rf2
Synonyms:	2310046K19; 9130023G24Rik; A1452083; Ppp1r39; RNF158
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG217516 representing NM\_172966  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGATGATTTGACGTTACTTGTCTCCTGGAGTGCCCTGTGTGCTTTGAAAAGCTCGATGTCACAGCCA  
 AAGTTCTCCCCTGCCAGCACACCTTCTGCAAACCATGTCTACAGAGGATTTTCAAGGCCACAAGGAGCT  
 GAGGTGCCCGAATGCAGGACTCTGGTGTCTGCAGCATCGAGGCTCTGCCAGCCAACCTGTTGCTCGTG  
 CGTTTGTGGATGGTGTGCGTCCGGACAGAGCTCGTGGAAAGGAGGCTCCTCCGAAGGCCTCGGATAC  
 TGACCTTGCAGGACAACAGGAAAGCCAAGAGCAGCCCCAGAAGTCTACAGGCTAGCCCTTCCGGCTGGT  
 GCCCAGTGTGAGGATCCACATGGATGGGTGCCTCGAGCCAAGGCCTTGTGCACTACAGAGGGAAGAAT  
 CCTGGCGACTGAAGTTAATAAAGGCGATGTCATCCTCCTTCGGAGACAGCTTGATGAGAACTGGTACC  
 AGGGGAGATTAATGGCGTCAGCGGATCTTCCGGCCAGCTCTGTGGAAGTCATCAAACAGCTGCCCA  
 ACCACCCCACTCTGCAGAGCCCTTACAACCTTTCGACCTTCGAGACAAGGATAAGAGTGAGAACCAGGAC  
 TGCTGACCTTCCCAAGCCAAACGTCTCGGCAAGACACCTCCTAGAGAACAAGGACATCAGTTATCAC  
 GCACAAGACACCTGTCCCTGATGTCCTCCCATCCAGAGGCAAAGCGACCAACACATCCTCGCTCCGAAA  
 GAGCCAGGGTCCAGGAGGAAGGATCTGGGCAGTTCTCCATGACTACAGCTTTGAACACACTCAACCGT  
 ACAGTCCATTCTCCTGAAGGCCACCAGATGGTGGAAATCAGCACCCCGATGCTCATCAGCTTAACAGCC  
 CCTCTGTGCTCACCAACATGGGACAAGGCAGACTTCCCTACCAGCTCTACAGGACAGGTGAGCAGTTC  
 TCAGCTGCACCTGCCTCCCGGACATTCACAGCCATGGTCAAGTGTGCCAGCTCCAGCAACACCTT  
 TCAAATAACATGTTTGTAGCCCTACACACTTACTCAGCCATAGACCCGAAGAGCTGGACCTGCAGAAGG  
 GAGAAGGCATCAGGTTCTGGCAAGTACCAGGATGGCTGGCTGAAGGGCCTCTCCTTACTCACTGGACG  
 AACTGGCATCTTTCCAAGCGACTATGTCATCCAGTCTTCAGTTCAACAGCTAGAAAAGACATCTAGTTTT  
 CCTGATTCGCGGAGCCCACTGTCTGCACCACATGGGCGTTATCCACCTCCTCTGTGCTCCAGGGTA  
 GCTTTGCAGAAGGTGATCCCGGCAAAGTGGACCTTCAAATCTGTCTTTGTGCCACTGCCGTAGTTAA  
 CCCTTCGAGGAGCACACCTGGCCAGGGTCTTCTGGACAAGGGTCTTTAGGAAAGTGGGAGCAGCATG  
 AGAAAAATGGATCCCTGCAGAGACCAGTTCAATCTGGGATCCCCACTTTCATGGTGGGCTCCCTCAGGT  
 GCAGTCTACCATGGTATCCGGCCTCAGAGTTCCAGTTTTATCCGCCACAGGGGATGACCCCTCCCC  
 GACACCGATAATGGTGGAGATGGGTCTAAATCTATTTACTGGGAGCCTGCCCTGACCTGCATCAAC  
 AGAGGTAGCAAGACCAGGATCCACTCAGCAGGCAATTCATCATGGAAGGCAAAGAAACGCCCATCA  
 AGAGTGAACCGCCACCAAGCCGCTGCATCTGCGCCACCTCCATCCTCGTGAAACCAGAAAATTCAAA  
 GAATGGCACTGAAAAGCAAGTCAAACCGTGAGATTTTCAGAATTACAGCCCTCCGCCACAAAACACTCT  
 GCCTCCAGTCCCACCTCTGGAAAGCACGACCATCCAGCCACCTTGAAGGGTCCCAGCATGAAGCAGTCT  
 CCTCGGGAGGAGATGACCATTTATTTGCCACCGAAGTGGCTGCCACTCCGGGCAACAACAGACCT  
 TCGGAGAAAGTCAGCCTTTGGCAAGACCATGCCCTATTGTCCACTGCTTCAGCCACACAGACCTTGTT  
 CCCAGCAA

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >MG217516 representing NM\_172966  
Red=Cloning site Green=Tags(s)

```
MDDLTLDDLLECPVCFEKL DVTAKVLP CQHTFCKPCLQRIFKAHKELRCPE CRTLVFC SIEALPANLLL V
RLLDGVRSQGSSWKGGSFRRPRIL TLQDNRKAKSSPRSLQASPFRLVPSVRIHMDGVPRAKALCNYRGKN
PGDLKFNKGDVILLRRQLDENWYQGEINGVSGIFPASSVEVIKQLPQPPPLCRALYNFDLRDKDKSENQD
CLTFLKPNVSARHLLLENKGHQLSRTRHLSLMSSPSRGKATNTSSLRKSPGSRKSGQFSMTTALNTLNR
TVHSPEGHQMVEI STPMLISSNSPSVL TQHGDKADFP TSSTGQVSSSQPAPASPGHSTAMVSVSSQQL
SNNMFVALHTYS AHRPEELDLQKGE GIRVLGKYQDGWLKGLSLLTGR TGIFPSDYVIPVFSSTARKTSSF
PDSRSPTVCTT WALSTSSVSSQGSFAEGDPRQSGPFKSVFPTAVVNPSRSTPGPGSSGQGLR KVRSSM
RKNGLSLRPVQSGIPTFMVGLRCSPTMIRPQRFQFYPQGMTSPSTPIMVEMGKSIYTGEPALTCIN
RGSKTRIHSA GNSIIMEGKETPIKSEPPPKPPASAPPSILVKPENSKNGTEKQVKT VRFQNYSPPTKHS
ASSPTSGKHDPATL KGSQHEAVSSGEMTILFAHRSGCHSGQQTDLRRKSAFGKTMPLLSTASATQTLF
PSK
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_172966

**ORF Size:** 2109 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.

**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\\_172966.3](#), [NP\\_766554.2](#)

**RefSeq Size:** 4688 bp

**RefSeq ORF:** 2112 bp

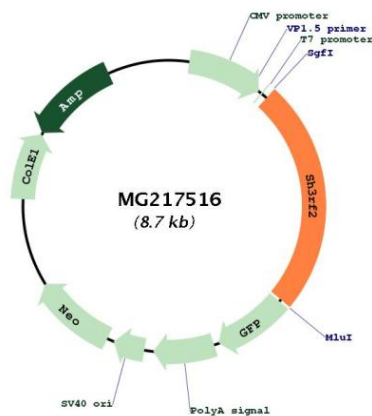
**Locus ID:** 269016

**UniProt ID:** [Q8BZT2](#)

**Cytogenetics:** 18 B3

**Gene Summary:** 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 MG217516