

## Product datasheet for **MR215957**

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

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sh3rf2 (NM_001146299) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sh3rf2
Synonyms:	2310046K19; 9130023G24Rik; A1452083; Ppp1r39; RNF158
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR215957 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGATGATTTGACGTTACTTGTCTCCTGGAGTGCCCTGTGTGCTTTGAAAAGCTCGATGTCACAGCCA  
 AAGTTCTCCCCTGCCAGCACACCTTCTGCAAACCATGTCTACAGAGGATTTCAAGGCCACAAGGAGCT  
 GAGGTGCCCGAATGCAGGACTCTGGTGTCTGCAGCATCGAGGCTCTGCCAGCCAACCTGTTGCTCGTG  
 CGTTTGTGGATGGTGTGCGTCCGGACAGAGCTCGTGAAAGGAGGCTCCTCCGAAGGCTCGGATAC  
 TGACCTTGCAGGACAACAGGAAAGCCAAGAGCAGCCCCAGAAGTCTACAGGCTAGCCCTTCCGGCTGGT  
 GCCCAGTGTGAGGATCCACATGGATGGGTGCCTCGAGCCAAGGCCTTGTGCACTACAGAGGGAAGAA  
 CCTGGCGACTGAAGTTAATAAAGGCGATGTCATCCTCCTTCGGAGACAGCTTGATGAGAACTGGTACC  
 AGGGGGAGATTAATGGCGTCAGCGGGATCTTCCCGCCAGCTCTGTGGAAGTCATCAAACAGCTGCCCA  
 ACCACCCCACTCTGCAGAGCCCTTACAACCTTTCGACCTTCGAGACAAGGATAAGAGTGAGAACCAGGAC  
 TGCTGACCTTCCCAAGGATGATGTCATCACAGTGTACAGCCGTGTAGATGAGAACTGGCAGAGGGAA  
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 CTACAGCTTTGAACACTCAACCGTACAGTCCATTCTCCTGAAGGCCACCAGATGGTGGAAATCAGCAC  
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 AGCTCTACAGGACAGGTGAGCAGTTCTCAGCCTGCACCTGCCTCCCGGGACATTCCACAGCCATGGTCA  
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 AAGGGCTCTCCTTACTCACTGGACGAACCTGGCATCTTCCAAGCGACTATGTCATCCAGTCTTCAAGT  
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 CACCTCTCTGTCTCCAGGGTAGCTTTCGAGAAGGTGATCCCCGGCAAAGTGGACCCTTCAAATCC  
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 CACTTTCATGGTGGGCTCCCTCAGGTGCAGTCTACCATGGTGTATCCGGCCTCAGAGTTCCAGTTTTAT  
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 GAAGGGTCCCAGCATGAAGCAGTCTCCTCGGGAGGAGAGATGACCATTCTATTTGCCACCGAAGTGGC  
 TGCCACTCCGGCAACAAACAGACCTTCGGAGAAAGTCAAGCTTTGGCAAGACCATGCCCTATTGTCCA  
 CTGCTTCAGCCACACAGACCTTGTTCAGCAAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
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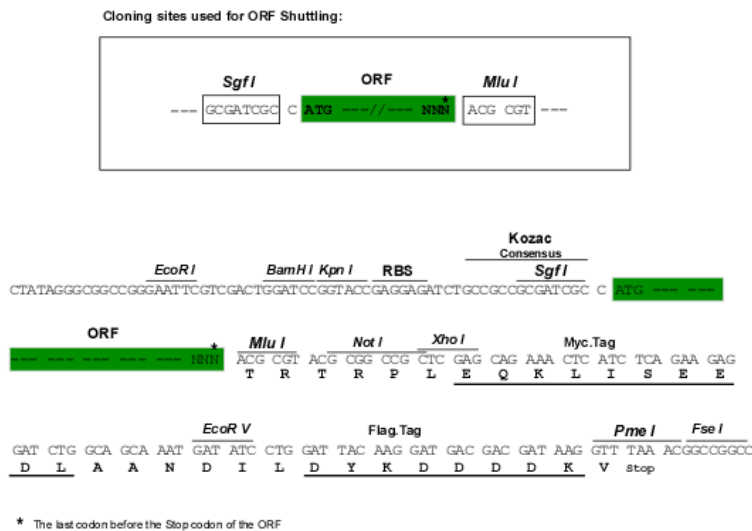
**Protein Sequence:** >MR215957 protein sequence  
Red=Cloning site Green=Tags(s)

```
MDDLTLDDLLECPVCFEKL DVTAKVLP CQHTFCKPCLQRIFKAHKELRCPECERTLVFCSIEALPANLLL
V RLLDGVRSQGSSWKGGSFRRPRILTLQDNRKAKSSPRSLQASPFRLVPSVRIHMDGVPRAKALCN
YRGKN PGDLKFNKGDVILLRRQLDENWYQGEINGVSGIFPASSVEVIKQLPQPPPLCRALYNFDL
RDKDKSENQD CLTLFLKDDVITVISRDENWAEGLGDKVGIFFILFVEPNVSARHLLLENKGHQL
SRTRHLSLMSSPSRGK ATNTSSLRKSPGSRKSGQFSMTTALNTLNRTVHSP EGHQMV EISTPML
ISSNSPSVLTQHGDKADFP T SSTGQVSSSQPAPASPGHSTAMVSVSSQHL SNNMFVALHTYS
AHRPEELDLQKGE GIRVLGKYQDGWL KGLSLLTGRTGIFPSDYIPVFSSTARKTSSFPDSR
SPTVCTT WALSTSSVSSQGSFAEGDPRQSGPFKS VFVPTAVVNP SRSTPGPGSSGQSLR
KVRSSMRKNGSLQRPVQSGIPTFMVGLRCSPTM V IRPQRFQFY PPQGMTSPTPI MVEMG
SKSIYTGEPALTCINRGSKTR IHSAGNSIIMEGKETPIKSEPPPKPPASAPPS ILVKPEN
SKNGTEKQVKTVRFQNYSPPTKHSASPTSGKHDHPATL KGSQHEAVSSGGEMTILFAHRSG
CHSGQQTDLRRKSAFGKTMPLLSTASATQTLFPSK
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001146299

**ORF Size:** 2208 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\\_001146299.1](#), [NP\\_001139771.1](#)

**RefSeq Size:** 4784 bp

**RefSeq ORF:** 2208 bp

**Locus ID:** 269016

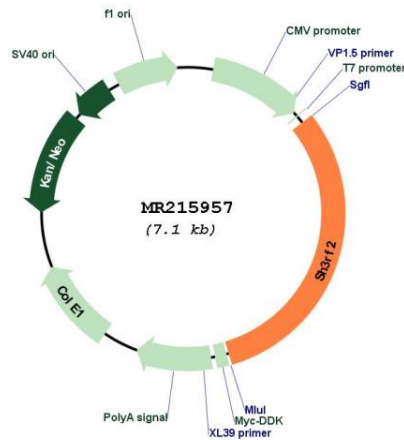
**UniProt ID:** [Q8BZT2](#)

**Cytogenetics:** 18 B3

**MW:** 80.1 kDa

**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 MR215957