

Product datasheet for **MG218861**

Sh3rf1 (NM_021506) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sh3rf1 (NM_021506) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sh3rf1
Synonyms:	2200003J05Rik; Posh; R75531; Sh3md2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG218861 representing NM_021506
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGATGAGTCTGCCTTGTGGACCTTCTGGAGTGCCCTGTGTCTAGAACGCCTGGATGCTTCCGCAA
 AGGTCTTACCCTGCCAGCATACCTTTGCAAACGCTGTTTGTGGGATTGTGGTTCCCGAATGAACT
 CAGATGTCCCGAATGCCGACTCTTGTGGCTCTGGGGTCGACGAGCTCCCCAGTAAACATCTACTGGTC
 AGACTTCTGGATGGCATCAAGCAGAGGCCTTGGAAACCCGGCCCTGGTGGGGCGCGGGACCACCTGCA
 CAAACACATTAAGGGCGCAGGGCAGCACTGTGGTTAATTGTGGCTCGAAAGATCTGCAGAGCTCCAGTG
 TGGACAGCAGCCTCGGGTCAAGCCTGGAGCCCCCAGTGAGGGGAATACCTCAGTTACCGTGTGCCAAA
 GCATTATATAACTACGAAGAAAAGAGCCCGGAGACCTTAAGTTCAGCAAAGGCGACATCATCTCTGC
 GCCGACAGGTGGATGAGAATTGGTACCACGGGGAAGTACGCGGGTCCACGGCTTTTCCCACCAACTT
 CGTGCAGATCATCAAACCTTTACCTCAGCCCCGCTCAGTGCAAAGCACTTTACGACTTTGAAGTGAAA
 GACAAGGAAGCTGACAAAGATTGCCTTCCCTTCGCAAAGGACGACGTACTGACCGTGATCCGCAGAGTGG
 ATGAAAACCTGGGCTGAAGGAATGCTGGCAGATAAAATAGGAATATTTCCAATTCATACGTGGAGTTAA
 CTCAGTGCCTAACGAGCTGATAGAGTGGGATAAGCCTCCCGTGCCAGGAGTGGACACGGCAGAATGCCCC
 TCAGCGACGGCGCAGAGCACCTCTGCCTCAAAGCACCCGACACCAAGAAGAACCAGGAAGCGCACT
 CCTCACCTCCCTCACCATGGCCAACAAGTCTTCCAGGGGTCCCAGAACCGCCACTCCATGGAGATCAG
 CCCTCTGTGCTCATCAGTTCAGCAACCCACAGCCGACGCCGCATCAGCGAACTGTCCGGGCTCTCC
 TGCAGCGCCCCGTCTCAGTCCATATAAGCACTACTGGGTTAATTGTGACCCACCCCTAGCAGCCCG
 TGACAACTGGCCCTGCGTTCAGTTCCTTCCAGATGTCCTTACCAAGCTGCCCTTGGAAAGTATGAATCC
 TCCACTTCCCCCACCCCTCTCCTGGCGGCCACCGTACTCGCTCCACCCGTCAGGCGCTACTGCTGCT
 GTTGTGCTGCTGCTGCCGCCGCGCTGCTGGAATGGGACCCAGGCCGTGATGGGGTCTCTGAACAGA
 TTGCACATTTACGGCTCAGACTCGTCCAGTGTATATGTTGCTATATATCCGTACACTCCCCGGAAGGA
 AGACGAACTGGAGCTGAGGAAAGGGGAGATGTTTTTGGTGTGGAGCTTGCAGGACGGCTGGTACAAA
 GGGACATCGATGCATACCAGCAAGATAGGCGTTTTCCCTGGCAACTATGTGGCGCCGTCACAAGGGCGG
 TGACGAATGCCTCCAAGCTAAAGTCTCTATGTCTACTGCGGGTCAAGCAAGTGCAGGGGTGACCATGGT
 CAGCCCTTCCACTGCAGGAGGACCTACACAGAAGCCCCAAGGAAACGGCGTGGCCGAAATCCCAGCGTC
 GTCCCCACGGCTGTGGTGTGAGCAGCTCATATCCAGACAAGTCCCTCAGGTAAGTCTGCTGCACATGT
 CTGGGCAGATGACAGTCAATCAGGCCCGCAATGCTGTGAGGACAGTTGCAGCACATAGCCAGGAACGCC
 CACGGCAGCAGTACTCCATCCAGTCCAGAATGCCGCCTGCCTCGGTCTGCATCCGTGGGCCTGCC
 CATCATTTCTGGCTCCCAACCTCTGCCTCCAATGGCGGGTCTCTGCTGCCACGGTGTGCCGTAGCA
 TCAGTCGAACCAATGCCCCATGGCCTGCGCTGCAGGGCTTCTCTGGCTCCCCAAATATGACCAGTGC
 CGTGTGGAGACAGAGCCAGTGGTTCGACAGTGACCATCCTCCCTGGACTCCCCACATCTCCAGAGAGT
 GCTGCATCAGCGTGTGGGAACAGTTCAGCTGGGAAACAGACAAGGACAGTAAGAAAGAAAAAAGGGCC
 TACTGAAGTGTCTTCTGGTGCCTCCACAAACGCAAGCCCCGAGTCTCCCTCCAGCATCACCTACCCT
 GGATGTGGAGCTGGGTGCTGGGAGGCTCCCTTGCAAGGAGCAGTGGTCTGAGCTGCCGTAGGGGGC
 AGCCACGGCAGAGTGGGTTCATGCCACAGATGGTGGTCCAGTGGCCGCTGGAACAGCAGCCCTAG
 CCCAGGATGCCTTCCACCGCAAGACAAGTCCCTGGACTCCGAGTGCCATTGCTCCACCACCTCGCCA
 GGCTGCTCCTCCTGGGCCAGTCATGAATGAGGCCCGCTGTTGTTGTGAAAGGCACAGGGTGGTG
 GTTTCCTACCCTCCTCAGAGTGAAGCCAACTGAACTCAAGGAAGGAGATATTGTGTTGTTTCATAAGA
 AACGAGAGGACGGCTGGTCAAAGGCACGTTACAGAGGAATGGGAAGACTGGCCTTTTCCCAGGGAGCTT
 TGTGAAAAACATC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG218861 representing NM_021506
 Red=Cloning site Green=Tags(s)

```

MDESALLDLECPVCLERLDASAKVLPQHTFCKRCLLGIVGSRNELRCPEERTLVGSGVDELPSNILLV
RLLDGIKQRPWKP GPGGGGGTTCNTLRAQSTVVNCGSKDLQSSQCGQPRVQAWSPPVRGIPQLPCAK
ALYNYEGKEPGLKFKSGDIIILRRQVDENWYHGEVSGVHGFFPTNFVQIIKPLPQPPPCKALYDFEVK
DKEADKDCLPF AKDDVLTVIRRVNDENWAEGLADKIGIFPISYVEFN SAAKQLIEWDKPPVPGVDTAEC
SATAQSTSASKHPDTKKNTRKRHSFTSLTMANKSSQGSQNRHSMEISPPVLISSSNPTAAARI SEL
SGLS CSAPSQVHISTTGLIVTPPPSSPVTTGPAFTFPDVPYQAALGSMNPPLPPPPLLAATVLA
STPSGATAA VAAAAAAAAAGMGRPVMGSSEQIAHLRPQTRPSVYVAIYPYTPRKEDELELRK
GEMFLVFERCQDGWYK GTSMHTSKIGVFPGNVYAPVTRAVTNASQAKVSMSTAGQASRGVTM
VSPSTAGGPTQKPGNGVAGNPSV VPTAVVSAAHIQTSQAKVLLHMSGQMTVNQARNAV
RTVAHHSQERPTAAVTPIQVQNAACLGPASVGLP HHSLASQPLPPMAGPAAHGA
AVSISRTNAPMACAAGASL ASPNMTSAVLETEPSGRTVTILPGLTSPES AASACGNS
SAGKPKDKSKKEKKGLL KLLSGASTKRKPRVSPASP TLDELGAGEAPLQGA
VPELPLGG SHGRVGSCTDGDGPVAAGTAALAQDAFHRKTS SLD
SAVPIAPPPRQACSS L GPMNEARPVV CERHRV VSYPPQSEAELELKEGDI
VFVHKKREDGWFKGTLQRNGKTGLFPGSFVENI
  
```

TRTRPLE - GFP Tag - V

Restriction Sites:

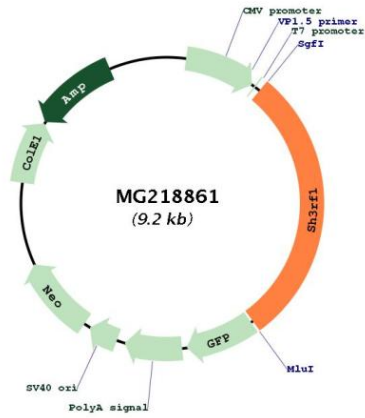
SgfI-MluI

Cloning Scheme:



ACCN:	NM_021506
ORF Size:	2673 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:	<ol style="list-style-type: none">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_021506.2 , NP_067481.2
RefSeq Size:	5199 bp
RefSeq ORF:	2676 bp
Locus ID:	59009
UniProt ID:	Q69Z11
Cytogenetics:	8 B3.1
Gene Summary:	Has E3 ubiquitin-protein ligase activity. In the absence of an external substrate, it can catalyze self-ubiquitination. Stimulates ubiquitination of potassium channel KCNJ1, enhancing its dynamin-dependent and clathrin-independent endocytosis (By similarity). Acts as a scaffold protein that coordinates with MAPK8IP1/JIP1 in organizing different components of the JNK pathway, including RAC1 or RAC2, MAP3K11/MLK3 or MAP3K7/TAK1, MAP2K7/MKK7, MAPK8/JNK1 and/or MAPK9/JNK2 into a functional multiprotein complex to ensure the effective activation of the JNK signaling pathway. Regulates the differentiation of CD4(+) and CD8(+) T-cells and promotes T-helper 1 (Th1) cell differentiation. Regulates the activation of MAPK8/JNK1 and MAPK9/JNK2 in CD4(+) T-cells and the activation of MAPK8/JNK1 in CD8(+) T-cells (PubMed:23963642, PubMed:27084103, PubMed:9482736). Plays a crucial role in the migration of neocortical neurons in the developing brain. Controls proper cortical neuronal migration and the formation of proximal cytoplasmic dilation in the leading process (PCDLP) in migratory neocortical neurons by regulating the proper localization of activated RAC1 and F-actin assembly (PubMed:22959435).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG218861