

Product datasheet for **MC222425**

Sh3rf1 (NM_021506) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sh3rf1 (NM_021506) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Sh3rf1
Synonyms:	2200003J05Rik; Posh; R75531; Sh3md2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC222425 representing NM_021506
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGATGAGTCTGCCTTGTGGACCTTCTGGAGTGCCCTGTGTCTAGAACGCCTGGATGCTTCCGCAA
 AGGTCTTACCCTGCCAGCATACCTTTGCAAACGCTGTTTGTGGGGATTGTGGTTCGCCGAATGAACT
 CAGATGTCCCGAATGCCGACTCTTGTGGCTCTGGGGTCGACGAGCTCCCCAGTAACATCCTACTGGTC
 AGACTTCTGGATGGCATCAAGCAGAGGCCTTGGAAACCCGGCCCTGGTGGGGCGCGGGACCACCTGCA
 CAAACACATTAAGGGCGCAGGGCAGCACTGTGGTTAATTGTGGCTCGAAAGATCTGCAGAGCTCCAGTG
 TGGACAGCAGCCTCGGGTCAAGCCTGGAGCCCCCAGTGAGGGGAATACCTCAGTTACCGTGTGCCAAA
 GCATTATATAACTACGAAGAAAAGAGCCCGGAGACCTTAAGTTCAGCAAAGGCGACATCATCTCTGC
 GCCGACAGGTGGATGAGAATTGGTACCACGGGGAAGTACGCGGGTCCACGGCTTTTCCCACCAACTT
 CGTGCAGATCATCAAACCTTACCTCAGCCCCGCTCAGTGCAAAGCACTTTACGACTTTGAAGTGAAA
 GACAAGGAAGCTGACAAAGATTGCCTCCCTTCGCAAAGGACGACGTACTGACCGTATCCGCAGAGTGG
 ATGAAAACCTGGGCTGAAGGAATGCTGGCAGATAAAATAGGAATATTTCCAATTCATACGTGGAGTTAA
 CTCAGTGCCTAACGAGCTGATAGAGTGGGATAAGCCTCCCGTGCAGGAGTGGACACGGCAGAATGCCCC
 TCAGCGACGGCGCAGAGCACCTCTGCCTCAAAGCACCCGACACCAAGAAGAACCAGGAAGCGCACT
 CCTTCACTCCCTCACCATGGCCAACAAGTCTTCCAGGGTCCCAGAACCGCCACTCCATGGAGATCAG
 CCCTCTGTGCTCATCAGTTCAGCAACCCACAGCCGACGCCGCATCAGCGAACTGTCCGGGCTCTCC
 TGCAGCCCCCGTCTCAGTCCATATAAGCACTACTGGGTTAATTGTGACCCACCCCTAGCAGCCCG
 TGACAACCTGGCCCTGCGTTCAGTTCCTTCCATGATGCTCCCTACCAAGCTGCCCTTGGAAAGTATGAATCC
 TCCACTTCCCCCACCCCTCTCCTGGCGGCCACGGTACTCGCTCCACCCGTCAGGCGCTACTGTCTGCT
 GTTGTGCTGCTGCTGCCGCCGCGCTGCTGGAATGGGACCCAGGCCGTGATGGGGTCTCTGAACAGA
 TTGCACATTTACGGCTCAGACTCGTCCAGTGTATATGTTGCTATATATCCGTACACTCCCCGGAAGGA
 AGACGAACTGGAGCTGAGGAAAGGGGAGATGTTTTGGTGTGGAGCTTGCAGGACGGCTGGTACAAA
 GGGACATCGATGCATACCAGCAAGATAGGCGTTTTCCCTGGCAACTATGTGGCGCCGTCACAAGGGCGG
 TGACGAATGCCTCCAAGCTAAGTCTCTATGTCTACTGCGGGTCAAGCAAGTCCGCGGGTGACCATGGT
 CAGCCCTTCCACTGCAGGAGGACCTACACAGAAGCCCAAGGAAACGGCGTGGCCGAAATCCCAGCGTC
 GTCCCCACGGCTGTGGTGTGAGCAGCTCATATCCAGACAAGTCCCTCAGGTAAGTCTGCTGCACATGT
 CTGGGCAGATGACAGTCAATCAGGCCCGCAATGCTGTGAGGACAGTTGCAGCACATAGCCAGGAACGCC
 CACGGCAGCAGTACTCCATCCAGTCCAGAATGCCGCCTGCCTCGGTCTGCATCCGTGGGCCTGCC
 CATCATTTCTGGCTCCCAACCTCTGCCTCCAATGGCGGGTCTCTGCTGCCACGGTGTGCCGTAGCA
 TCAGTCGAACCAATGCCCCATGGCCTGCCTGCAGGGGCTTCTCTGGCTCCCCAAATATGACCAGTGC
 CGTGTGGAGACAGAGCCAGTGGTGCACAGTGACCATCCTCCCTGGACTCCCCACATCTCCAGAGAGT
 GCTGCATCAGCGTGTGGGAACAGTTCAGCTGGGAAACAGACAAGGACAGTAAGAAAGAAAAAAGGGCC
 TACTGAAGCTGCTTTCTGGTGCCTCCACAAACGCAAGCCCGAGTCTCCCTCCAGCATCACCTACCT
 GGATGTGGAGCTGGGTGCTGGGAGGCTCCCTTGCAAGGAGCAGTAGGTCTGAGCTGCCGTAGGGGGC
 AGCCACGGCAGAGTGGGTGATGCCACAGATGGTGGTCCAGTGGCCGCTGGAACAGCAGCCCTAG
 CCCAGGATGCCTTCCACGCAAGACAAGTCCCTGGACTCCGAGTGCCATTGCTCCACCACCTCGCCA
 GGCTGCTCCTCCTGGGCCAGTCATGAATGAGGCCCGCTGTTGTTGTGAAAGGCACAGGGTGGTG
 GTTTCCTACCCTCCTCAGAGTGAAGCCAACTGAACTCAAGGAAGGAGATATTGTGTTTGTTCATAAGA
 AACGAGAGGACGGCTGGTTCAAAGGCACGTTACAGAGGAATGGGAAGACTGGCCTTTTCCCAGGGAGCTT
 TGTGAAAACATCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
ACCN: NM_021506

Insert Size:	2676 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<u>NM_021506.2</u> , <u>NP_067481.2</u>
RefSeq Size:	5199 bp
RefSeq ORF:	2676 bp
Locus ID:	59009
UniProt ID:	<u>Q69Z11</u>
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]