

Product datasheet for **MC220806**

Sh3rf1 (BC060113) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sh3rf1 (BC060113) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Sh3rf1
Synonyms:	2200003J05Rik; Posh; R75531; Sh3md2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >BC060113
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGATGAGTCTGCCTTGTGGACCTTCTGGAGTGCCCTGTGTCTAGAACGCCTGGATGCTTCCGCAA
 AGGTCTTACCCTGCCAGCATACCTTTGCAAACGCTGTTTCTGGGGATTGTGGGTTCCCGAATGAACT
 CAGATGTCCCGAATGCCGACTCTTGTGGCTCTGGGGTCGACGAGCTCCCCAGTAAACATCTACTGGTC
 AGACTTCTGGATGGCATCAAGCAGAGGCCTTGGAAACCCGGCCCTGGTGGGGGCGCGGGACCACCTGCA
 CAAACACATTAAGGGCGCAGGGCAGCACTGTGGTTAATTGTGGCTCGAAAGATCTGCAGAGCTCCAGTG
 TGGACAGCAGCCTCGGGTCAAGCCTGGAGCCCCCAGTGAGGGGAATACCTCAGTTACCGTGTGCCAAA
 GCATTATATAACTACGAAGGAAAAGAGCCCGGAGACCTTAAGTTCAGCAAAGGCGACATCATCAAACCTT
 TACCTCAGCCCCCGCCTCAGTCAAAGCACTTTACGACTTTGAAGTCAAAGACAAGGAAGCTGACAAAGA
 TTGCCTTCCCTTCGAAAGGACGAGTACTGACCGTGATCCGCAGAGTGGATGAAAACCTGGGCTGAAGGA
 ATGCTGGCAGATAAAATAGGAATATTTCCAATTCATACGTGGAGTTAACTCAGCTGCCAAGCAGCTGA
 TAGAGTGGGATAAGCCTCCCGTGCCAGGAGTGGACACGGCAGAATGCCCTCAGCGACGGCGCAGAGCAC
 CTCTGCCTCAAAGCACCCCGACCAAGAAGAACACCAGGAAGCGACTCCTTACCTCCCTCACCATG
 GCCAACAAAGTCTTCCAGGGGTCCAGAACCGCCACTCCATGGAGATCAGCCCTCCTGTGCTCATCAGTT
 CCAGCAACCCACAGCCCGCAGCCCGCATCAGCGAACTGTCCGGGCTCTCCTGCAGCGCCCCGTCTCAGTT
 CCATATAAGCACCCTGGGTTAATTGTGACCCACCCCTAGCAGCCCGTGACAACCTGGCCCTGCGTTC
 ACGTTCCTTTCAGATGTCCCTACCAAGCTGCCCTTGAAGTATGAATCCTCCACTTCCCCACCCCTC
 TCCTGGCGGCCACCGTACTGCCTCCACCCCGTCAAGCGCTACTGCTGCTGTTGCTGCTGCTGCCG
 CGCCGCTGCTGGAATGGGACCCAGGCCTGTGATGGGGTCCCTCTGAACAGATTGCACATTTACGGCCTCAG
 ACTCGTCCAGTGTATATGTTGCTATATATCCGTACACTCCCGGAAGGAAGACGAACTGGAGCTGAGGA
 AAGGGGAGATGTTTTGTTGTTGAGCGTTGCCAGGACGGCTGGTACAAAGGGACATCGATGCATACCAG
 CAAGATAGGCGTTTTCCCTGGCAACTATGTGGCGCCCGTCAAGGGCGGTGACGAATGCCTCCCAAGCT
 AAAGTCTCTATGTCTACTGCGGGTCAAGCAAGTGCAGGGGTGACCATGGTCAAGCCTTCCACTGCAGGAG
 GACCTACACAGAAGCCCCAAGGAAACGGCGTGGCCGAAATCCCAGCGTCTGCCACGGCTGTGGTGTC
 AGCAGCTCATATCCAGACAAGTCTCAGGCTAAGGTCCTGCTGCACATGTCTGGGAGATGACAGTCAAT
 CAGGCCCGCAATGCTGTGAGGACAGTTGCAGCACATAGCCAGGAACGCCACGGCAGCAGTACTCCCA
 TCAGGTCAGAAATGCCGCTGCCTCGTCCGATCCGTGGGCTGCCCATATTCTCTGGCCTCCCA
 ACCTCTGCCTCCAATGGCGGGTCTGCTGCCACGGTGTGCCGTGAGCATCAGTCAACCAATGCCCC
 ATGGCCTGCGCTGCAGGGGCTTCTCTGGCCTCCCAAAATATGACCAGTGGCGTGTGGAGACAGAGCCCA
 GTGGTTCGACAGTGACCATCCTCCCTGGACTCCCAACATCTCCAGAGAGTGTGCATCAGCGTGTGGAA
 CAGTTCAGCTGGGAAACCAGACAAGGACAGTAAGAAAGAAAAAAGGGCCTACTGAAGCTGCTTTCTGGT
 GCCTCCACCAACGCAAGCCCCGAGTCTCCCTCCAGCATCACCTACCCTGGATGTGGAGCTGGGTGCTG
 GGGAGGCTCCCTTGCAGGGAGCAGTAGGTCCTGAGTCCCGTAGGGGGCAGCCACGGCAGAGTGGGGTC
 ATGCCCCACAGATGGTGATGGTCCAGTGGCCGCTGGAACAGCAGCCCTAGCCCAGGATGCCCTTCCACCG
 AAGACAAGCTCCCTGGACTCCGCAAGTCCCATTTGCTCCACCACCTCGCCAGGCCTGCTCCTCCCTGGGCC
 CAGTCATGAATGAGGCCCGCCTGTTGTTGTGAAAGGCACAGGGTGGTGGTTTCTACCCTCCTCAGAG
 TGAGGCCGAACCTGAACTCAAGGAAGGAGATATTGTGTTTGTTCATAAGAAACGAGAGGACGGCTGGTTC
 AAAGGCACGTTACAGAGGAATGGGAAGACTGGCCTTTTCCAGGGAGCTTTGTGAAAAACATCTGA

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCTGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: BC060113
Insert Size: 2586 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:	BC060113 , AAH60113
RefSeq Size:	5074 bp
RefSeq ORF:	2585 bp
Locus ID:	59009
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]