

## Product datasheet for **MR210987**

### Sh3rf1 (BC060113) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sh3rf1 (BC060113) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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**ORF Nucleotide Sequence:**

>MR210987 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGATGAGTCTGCCTTGTGGACCTTCTGGAGTGCCCTGTGTCTAGAACGCCTGGATGCTTCCGCAA  
 AGGTCTTACCCTGCCAGCATACCTTTTGCAAACGCTGTTTGTGGGATTGTGGGTTCCCGAATGAACT  
 CAGATGTCCCGAATGCCGACTCTTGTGGCTCTGGGGTCGACGAGCTCCCCAGTAAACATCTACTGGTC  
 AGACTTCTGGATGGCATCAAGCAGAGGCCCTTGGAAACCCGGCCCTGGTGGGGGCGCGGGACCACCTGCA  
 CAAACACATTAAGGGCGCAGGGCAGCACTGTGGTTAATTGTGGCTCGAAAGATCTGCAGAGCTCCAGTG  
 TGGACAGCAGCCTCGGGTCAAGCCTGGAGCCCCCAGTGAGGGGAATACCTCAGTTACCGTGTGCCAAA  
 GCATTATATAACTACGAAGGAAAAGAGCCCGGAGACCTTAAGTTCAGCAAAGGCGACATCATAAACCTT  
 TACCTCAGCCCCCGCCTCAGTCAAAGCACTTTACGACTTTGAAGTCAAAGACAAGGAAGCTGACAAAGA  
 TTGCCTTCCCTTCGAAAGGACGAGTACTGACCGTGATCCGCAGAGTGGATGAAAACCTGGGCTGAAGGA  
 ATGCTGGCAGATAAAATAGGAATATTTCCAATTCATACGTGGAGTTAACTCAGCTGCCAAGCAGCTGA  
 TAGAGTGGGATAAGCCTCCCGTGCCAGGAGTGGACACGGCAGAATGCCCTCAGCGACGGCGCAGAGCAC  
 CTCTGCCTCAAAGCACCCCGACCAAGAAGAACACCAGGAAGCGACTCCTTACCTCCCTCACCATG  
 GCCAACAAAGTCTTCCAGGGGTCCAGAACCCGCACTCCATGGAGATCAGCCCTCCTGTGCTCATCAGTT  
 CCAGCAACCCACAGCCGAGCCCGCATCAGCGAACTGTCCGGGCTCTCCTGCAGCGCCCCGTCTCAGTT  
 CCATATAAGCACCCTGGGTTAATTGTGACCCACCCCTAGCAGCCGGTGACAACCTGGCCCTGCGTTC  
 ACGTTCCTTTCAGATGTCCCTACCAAGCTGCCCTTGAAGTATGAATCCTCCACTTCCCCACCCCTC  
 TCCTGGCGGCCACCGTACTCGCTCCACCCCGTCAAGCGCTACTGCTGCTTGTGCTGCTGCTGCCGC  
 CGCCGCTGCTGGAATGGGACCCAGGCCTGTGATGGGGTCTCTGAACAGATTGCACATTTACGGCCTCAG  
 ACTCGTCCAGTGTATATGTTGCTATATATCCGTACACTCCCGGAAGGAAGACGAACTGGAGCTGAGGA  
 AAGGGGAGATGTTTTGTTGTTGAGCGTTGCCAGGACGGCTGGTACAAAGGGACATCGATGCATACCAG  
 CAAGATAGGCGTTTTCCCTGGCAACTATGTGGCGCCCGTCAAGGGCGGTGACGAATGCCTCCCAAGCT  
 AAAGTCTCTATGTCTACTGCGGGTCAAGCAAGTGCAGGGGTGACCATGGTCAAGCCTTCCACTGCAGGAG  
 GACCTACACAGAAGCCCCAAGGAAACGGCGTGGCCGAAATCCCAGCGTCTGCCACGGCTGTGGTGTC  
 AGCAGCTCATATCCAGACAAGTCTCAGGCTAAGTCTGCTGCACATGTCTGGGCAGATGACAGTCAAT  
 CAGGCCCGCAATGCTGTGAGGACAGTTGCAGCACATAGCCAGGAACGCCACGGCAGCAGTACTCCCA  
 TCCAGGTCCAGAATGCCGCTGCCTCGTCCGTCATCCGTGGGCTGCCCATATTCTCTGGCCTCCCA  
 ACCTCTGCCTCCAATGGCGGGTCTGCTGCCACGGTGTGCCGTGAGCATCAGTCAAGCAATGCCCC  
 ATGGCCTGCGCTGCAGGGGCTTCTCTGGCCTCCCCAAATATGACCAGTGCCTGTTGGAGACAGAGCCCA  
 GTGGTTCGACAGTGACCATCCTCCCTGGACTCCCCACATCTCCAGAGAGTGTGCATCAGCGTGTGGAA  
 CAGTTCAGCTGGGAAACCAGACAAGGACAGTAAGAAAGAAAAAAGGGCCTACTGAAGCTGCTTTCTGGT  
 GCCTCCACCAACGCAAGCCCCGAGTCTCCCTCCAGCATCACCTACCCTGGATGTGGAGCTGGGTGCTG  
 GGGAGGCTCCCTTGCAAGGAGCAGTAGTCTGAGCTGCCGCTAGGGGGCAGCCACGGCAGAGTGGGGTC  
 ATGCCCCACAGATGGTGATGGTCCAGTGGCCGCTGGAACAGCAGCCCTAGCCCAGGATGCCTTCCACCGC  
 AAGACAAGCTCCCTGGACTCCGCAGTGCCATTGCTCCACCACCTCGCCAGGCCTGCTCCTCCCTGGGCC  
 CAGTCATGAATGAGGCCCGCCTGTTGTTGTGAAAGGCACAGGGTGGTGGTTTCTACCCTCCTCAGAG  
 TGAGGCCGAACCTGAACTCAAGGAAGGAGATATTGTGTTTGTTCATAAGAAACGAGAGGACGGCTGGTTC  
 AAAGGCACGTTACAGAGGAATGGGAAGACTGGCCTTTTCCAGGGAGCTTTGTGAAAAACATC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR210987 protein sequence  
 Red=Cloning site Green=Tags(s)

MDESALLDLLECPVCLERLDASAKVLPQHTFCKRCLLGIVGSRNELRCPECTRLVGSVDELPSNILLV  
 RLLDGIKQRPWKPGPGGGGTTCTNTLRAQSTVVNCGSKDLQSSQCGQPRVQAWSPVVRGIPQLPCA  
 ALYNYEGKEPGLKFSKGDIIKPLPQPPPQCKALYDFEVKDKEADKCLPFADKDDVLTVIRRVNENWAEG  
 MLADKIGIFPISYVEFNAAKQLIEWDKPPVPGVDTAECPSATAQSTSASKHPDTKKNTRKRHSFTSLTM  
 ANKSSQGSQNRHSMEISPPVLISSNPTAAARISEL SGLSCSAPSQVHI STTGLIVTPPPSSPVTTGPAF  
 TFPDVPYQAALGSMNPPLPPPPLLAATVLA STPSGATAAVAAAAAAAAAGMGRPVMGSSEQIAHLRPQ  
 TRPSVYVAIYPYTPRKEDELELRKGEMFLVFERCQDGWYKGTSMHTSKIGVFPNGYVAPVTRAVTNASQA  
 KVMSTAGQASRGVTMVPSTAGGPTQKPQNGVAGNPSVVPTAVVSAHIQTSPQAKVLLHMSGQMTVN  
 QARNAVRTVAHNSQERPTAAVTPIQVQNAACLGPASVGLPHHSLASQPLPPMAGPAAHGAAVSISRTNAP  
 MACAAGASLSPNMTSAVLETEPSGRTVTILPGLPTSPESAASACGNSSAGKPKDKSKKEKGLLKLKLLSG  
 ASTKRKPRVSPASPTLDVELGAGEAPLQAVGPELPLGGSHGRVGSCTDGDGPVAAGTALAQAFAHR  
 KTSLSLDAVPIAPPPRQACSSLGPMNEARPVVCERHRVVSYPPQSEAELELKEGDIVVHKKREDGW  
 KGTLQRNGKTGLFPGSFVENI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

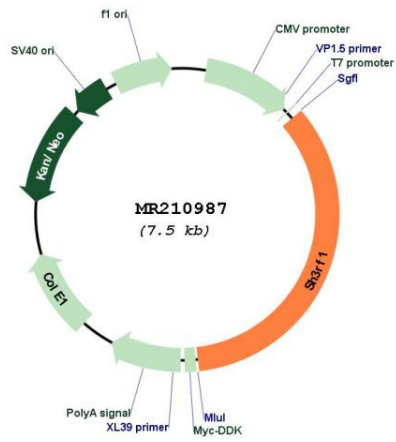
Sgfl-MluI

**Cloning Scheme:**



<b>ACCN:</b>	BC060113
<b>ORF Size:</b>	2583 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">BC060113</a> , <a href="#">AAH60113</a>
<b>RefSeq Size:</b>	5074 bp
<b>RefSeq ORF:</b>	2585 bp
<b>Locus ID:</b>	59009
<b>Cytogenetics:</b>	8 B3.1
<b>MW:</b>	89.8 kDa
<b>Gene Summary:</b>	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 MR210987