

## Product datasheet for **MR216854**

### **Sarm1 (NM\_001168521) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Sarm1 (NM_001168521) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sarm1
Synonyms:	A830091115Rik; C78606; MyD885; Sarm
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide  
Sequence:

>MR216854 representing NM\_001168521  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGTCTGACGCTGCTCTTCTCCGCTACAACTGTGCCGTTCTTACCATGTGAGGCCACGGCCGG  
 GCGCCGATCGGCTGACAGTGCCCGACCGGATCGGAGTGGTGGCCAGCCCATGGTGGCTGCGGGCGG  
 TCGCGGTCTCGCGAAGTGTCCGCCGAGTGGGCACTGAGGTGCAAGGCCCTGGAGCGTTCGCTGCCT  
 GAGCTGCAGCAGGCGCTGTCCGAGCTGAAACAGGCAAGCGCGCGGGGTGTGGCGCGGGTCTCGCCG  
 AGGTCTTCCAGCTGGTAGAGGAAGCCTGGCTGCTGCCGGCGTGGCCGCGAGGTGGCCAAAGTCTATG  
 CGATGCTATACGCTGGACGGTGGCCTCGACTTGTGTTGCGGCTGTTTACAGCACCGGAGCTAGAGACC  
 CGTGTGCAGGCCGCGCTTGTGGAGCAGATCCTGGTGGCTGAGAACCAGGACCGCGTGGCGCGCATCG  
 GTCTAGGCGTGATCTTGAACCTGGCGAAGGAGCGCGAGCCTGTGAACTGGCACGAAGCGTGGCGGGCAT  
 CTTGGAGCACATGTTCAAGCACTCGGAGGAGAGCTGCCAGCGGCTGGTGGCGGCCGAGGCTCGACGCG  
 GTGCTGTACTGGTCCCGCCACAGACCCGCGCTGTGCGCCACTGCGCTCTTGCCTGGCGAAGTGGC  
 CGCTGCACGGGGCCAGACGGTGCACGGTGCATGGTGGAGAAGCGCGCCGCGAGTGGCTCTTCCCGCT  
 CGCTTCTCCAAGGAGGACGAGCTGCTGCGGCTGCACGCCTGCCTGGCGGTGGCGGTGTTGGCTACCAAC  
 AAGGAGGTGGAACCGGAGGTCGAGCATTCTGGCACATTGGCGCTTGTGAGCCGCTCGTGGCATCGCTGG  
 ACCCGGCGCTTCGCCCCTGCCTGGTGGATGCCAGTGACACAAGCCAGGGTCTGGACAGACGACCT  
 GCAGAGCTGGTGTGTTGCTCGATTCTGCGCTTGGAGGCTCAGTGCATAGGAGCATTCTACCTGTGC  
 GCAGAGGCTGCCATCAAGAGCCTACAGGAAAGACCAAGGTGTTACAGCAGATCGGCGCTATCCAGAGCC  
 TGAACCGCTGGTTTCTACTCTACGAATGGCACACGTCGGCGCTGGCCAGCGCGCTGCGCCTATT  
 GGGCGAGGAGGTGCCAAGGCGCATCCTGCCCTGGGTGGCCAGCTGGAAGGAAGCTGAGGTCCAGACCTGG  
 CTACAGCAGATCGGCTTCTCCAGTACTGCGAGAATTTTCGGGAGCAGCAGGTAGATGGTACCTGCTTC  
 TAAGACTCACAGATGAAGAACTCCAGACAGACCTAGGCATGAAATCAAGCATCACCCGCAAGAGTTCTT  
 TAGGGAGCTCACAGAGCTCAAGACCTTCGCCAGCTACGCTACTTGCACCCGAGCAACCTAGCGGACTGG  
 CTGGGCAGCCTGGATCCTCGCTTCGCCAGTACACCTATGGCCTGGTCACTGCGGTCTGGACCGCTCCC  
 TGCTGCACCGCTGTGAGAGCAGCAGCTCCTGGAGGACTGTGGCATCCGCTGGGAGTGCACCGCACGCG  
 CATCCTCTGTCAGCCAGAGTCACTTTGCCAGACTGGCCTGAGAAGCTTGAGGAGACCAAGTCTCCAC  
 GATGATGGACCCGCTGATAAGCAGTGGGAAGAGCCACCCTCACCTCCATGTCTTTTCTTGGCTCCAG  
 AAATGCTACATTCGCCGCTGCCCTGACTGGAGGCAAGCTCAGTGGGGACACCCAGATGTCTTTATCAG  
 TTACCGGAGGAAGTCAAGGTCAGCTGGCCAGCCTCCTGAAGGTGCACCTGCAGCTTACAGGCTTACAGC  
 GTCTTATCGAGCTGGAGAAGCTGGAAGCCGGCAAATTCGAGGACAAGCTTATCCAAAGCGTCATAGCGG  
 CTCGCAATTTTGTCTGGTGTCTGTGCTGGGGCGCTGGATAAGTGCATGCAGGACCATGACTGCAAGGA  
 CTGGGTGCACAAGGAGATTGTGACTGCTTTAAGCTGTGGCAAGAACATTGTGCCATCATTGATGGCTTT  
 GAGTGGCTGAGCCTCAGGCGCTGCCTGAGGATATGCAGGCTGTACTCACCTTCAACGGCATCAAATGGT  
 CCCATGAGTACCAGGAGCCACCATCGAGAAGATCATCCGCTTCTACAGGGCCGCCCTCTCAGGACTC  
 CTCTGCCGATCGGATACCAGTTTGGAGGGAGCTACGCCAATGGGTCTGCCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR216854 representing NM\_001168521  
 Red=Cloning site Green=Tags(s)

MVLTLFSA YKLCRFF TMSGPRPGADRL TVPGPDRSGGAS PWWAAGGRGSREVSPGVGTEVQGALERSLP  
 ELQQALSELKQASAARAVGAGLA EYVFLVEEAWLLPAVGREVAQGLCDAIRLDGGLDLLRLQAPELET  
 RVQAARLLEQILVAENRDRVARIGLVILNLAKEREPVELARSVAGILEHMFKHSEETCQRLVAAGGLDA  
 VLYWCRRTDPALLRHCALALANCA LHGGQTVQR CMVEKRAAEWLFPLAFSKEDELLRLHACLAVAVLATN  
 KEVEREVEHSGTLALVEPLVASLDPGRFARCLVDASDTSQGRGPDDLQSLVLLLDSSRLEAQCIGAFYLC  
 AEAAIKSLQGKTKVFSDIGAIQSLKRLVSYSTNGTTSALAKRALRLLGEEVPRRI LPCVASWKEAEVQTW  
 LQQIGFSQYCNFREQQVDGDLRLRLDEELQTDLGMKSSITRKRFFRELTELKTFASYATCDRSNLADW  
 LGS LDPRFRQYTYGLVSCGLDRSLLHRVSEQQLLED CGIRLVGHRTRILSAARGHFAQTGLRSLRPPSLH  
 DDGPRDKQWGRATLTSMSLSLAPEMLHSPLPCTGGKLSG DTPDVFISYRRNSGSQLASLLKVHLQLHGFS  
 VFIDVEKLEAGKFEDKLIQSVIAARNFVLVLSAGALDKCMQDHDCKDWHVHEIVTALSCGKNIVPIIDGF  
 EWPEPQALPEDMQAVLTFNGIKWSHEYQEATIEKIIIRFLQGRPSQDSSAGSDTSLEGATPMGLP

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

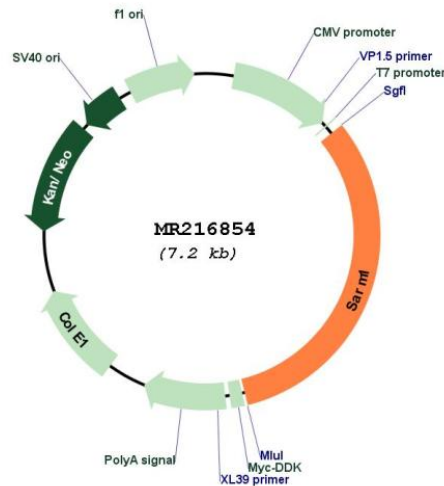
Cloning Scheme:

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM\_001168521

ORF Size: 2292 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\\_001168521.1](#), [NP\\_001161993.1](#)

RefSeq Size: 5164 bp

RefSeq ORF: 2295 bp

Locus ID: 237868

**UniProt ID:** [Q6PDS3](#)

**Cytogenetics:** 11 46.74 cM

**MW:** 84.5 kDa

**Gene Summary:** Negative regulator of MYD88- and TRIF-dependent toll-like receptor signaling pathway which plays a pivotal role in activating axonal degeneration following injury. Promotes Wallerian degeneration an injury-induced axonal death pathway which involves degeneration of an axon distal to the injury site. Can activate neuronal death in response to stress. Regulates dendritic arborization through the MAPK4-JNK pathway. Involved in innate immune response. Inhibits both TICAM1/TRIF- and MYD88-dependent activation of JUN/AP-1, TRIF-dependent activation of NF-kappa-B and IRF3, and the phosphorylation of MAPK14/p38. Can restrict West Nile virus (WNV) pathogenesis.[UniProtKB/Swiss-Prot Function]