

Product datasheet for **MR210296**

Sarm1 (NM_172795) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sarm1 (NM_172795) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sarm1
Synonyms:	A830091115Rik; C78606; MyD885; Sarm
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR210296 representing NM_172795
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTCCTGACGCTGCTCTTCTCCGCTACAACTGTGCCGTTCTTACCATGTGAGGCCACGGCCGG
 GCGCCGATCGGCTGACAGTGCCCGACCGGATCGGAGTGGTGGGCCAGCCCATGGTGGCTGCGGGCGG
 TCGCGGGTCTCGCGAAGTGTCCGCCGAGTGGGCACTGAGGTGCAAGGCCCTGGAGCGTTCGCTGCCT
 GAGCTGCAGCAGGCGCTGTCCGAGCTGAAACAGGCAAGCGCGCGGGCTGTGGCGCGGGTCTCGCCG
 AGGTCTTCCAGCTGGTAGAGGAAGCCTGGCTGCTGCCGGCGTGGGCCGAGGTGGCCAAAGTCTATG
 CGATGCTATACGCTGGACGGTGGCCTCGACTTGTGTTGCGGCTGCTTACAGCACCGGAGCTAGAGACC
 CGTGTGCAGGCCGCGCTTGTGGAGCAGATCCTGGTGGCTGAGAACCAGGACCGCTGGCGCGCATCG
 GTCTAGGCGTGATCTTGAACCTGGCGAAGGAGCGGAGCCTGTGGAAGTGGCACGAAGCGTGGCGGGCAT
 CTTGGAGCACATGTTCAAGCACTCGGAGGAGAGCTGCCAGCGGCTGGTGGCGGCCGAGGCTCGACGCG
 GTGCTGTACTGGTCCCGCCACAGACCCGCGCTGTGCGCCACTGCGCTCTTGGCTGGCGAAGTGGC
 CGCTGCACGGGGCCAGACGGTGCACGGTGCATGGTGGAGAAGCGCGCCGCGAGTGGCTCTTCCCGCT
 CGCTTTCTCCAAGGAGGACGAGCTGCTGCGGCTGCACGCCTGCCTGGCGGTGGCGGTGTTGGCTACCAAC
 AAGGAGGTGGAACGCGAGGTGAGCATTCTGGCACATTGGCGCTTGTGAGCCGCTCGTGGCATCGCTGG
 ACCCCGGCCGCTTCGCCCCTGCCTGGTGGATGCCAGTGACACAAGCCAGGGTCTGGACAGACGACCT
 GCAGAGCTGGTGTGTTGCTCGATTGTCGCGTTTGGAGGCTCAGTGCATAGGAGCATTCTACCTGTGC
 TGAGAGGCTGCCATCAAGAGCCTACAGGAAAGACCAAGGTGTTACGCGACATCGGCGCTATCCAGAGCC
 TGAACGCTGGTTTCTACTCTACGAATGGCACCAAGTGGCGCTGGCCAAAGCGCGCTGCGCCTATT
 GGGCGAGGAGGTGCCAAGGCGCATCCTGCCTGGTGGCCAGCTGGAAGGAAGCTGAGGTCCAGACCTGG
 CTACAGCAGATCGGCTTCTCCAGTACTGCGAGAATTTTCGGGAGCAGCAGGTAGATGGTACCTGCTTC
 TAAGACTCACAGATGAAGAACTCCAGACAGACCTAGGCATGAAATCAAGCATCACCCGCAAGAGGTTCTT
 TAGGGAGCTCACAGAGCTCAAGACCTTCGCCAGCTACGCTACTTGGCAGCCGAGCAACCTAGCGGACTGG
 CTGGGCAGCCTGGATCCTCGTTCGCCAGTACACCTATGGCCTGGTCACTGCGGTCTGGACCGCTCCC
 TGCTGCACCGCTGTGAGAGCAGCAGCTCCTGGAGGACTGTGGCATCCGCTGGGAGTGCACCGCACGG
 CATCCTCTGTCAGCCAGAGAAATGCTACATCCCGCTGCCCTGTACTGGAGGCAAGCTCAGTGGGGAC
 ACCCCAGATGTCTTATCAGTTACCGGAGGAACTCAGGGTCCCAGCTGGCCAGCCTCCTGAAGGTGCACC
 TGAGCTTACAGGCTTACAGCTTTCATCGACGTGGAGAAGCTGGAAGCCGGCAAATTCGAGGACAAGCT
 TATCCAAAGCGTCATAGCGGCTCGCAATTTTGTCTGGTGTCTGCTGGGGCGCTGGATAAGTGCATG
 CAGGACCATGACTGCAAGGACTGGGTGCACAAGGAGATTGTGACTGCTTTAAGCTGTGGCAAGAACATTG
 TGCCCATCATTGATGGCTTTGAGTGGCCTGAGCCTCAGGCGCTGCCTGAGGATATGACGGCTGTACTCAC
 CTTCAACGGCATCAAATGGTCCCATGAGTACCAGGAGGCCACCATCGAGAAGATCATCCGCTTCTACAG
 GGCCGCCCTCTCAGGACTCCTGCGGGATCGGATACCAGTTTGGAGGGAGCTACGCCAATGGGTCTGC
 CT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210296 representing NM_172795
 Red=Cloning site Green=Tags(s)

MVLTLFSA YKLCRFFMSGPRPGADRLTVPGPDRSGGASPWAAAGGRGSREVSPGVGTEVQGALERSLP
 ELQQALSELKQASAAAVGAGLAEVFQLVEEAWLLPAVGREVAQGLCDAIRLDGGLDLLLRLLQAPELET
 RVQAARLLEQILVAENRDRVARIGLVILNLAKEREPVELARSVAGILEHMFKHSEETCQRLVAAGGLDA
 VLYWCRRTDPALLRHICALALANCALHGGQTVQRCMVEKRAAEWLFPLAFSKEDELLRLHACLAVAVLATN
 KEVEREVEHSGTLALVEPLVASLDPGRFARCLVDASDTSQGRGPDDLQSLVLLLDSSRLEAQCIGAFYLC
 AEAAIKSLQGKTKVFSDIGAIQSLKRLVSYSTNGTTSALAKRALRLLGEEVPRRILPCVASWKEAEVQTW
 LQQIGFSQYCENFREQQVDGDLRLTDEELQTDLGKSSITRKRFFRELTELKTFASYATCDRSNLADW
 LGSLDPRFRQYTYGLVSCGLDRSLLHRVSEQLLEDGCGIRLVHRTRILSAAREMLHSPLPCTGGKLSGD
 TPDVFI SYRRNSGSQLASLLKVHLQLHGFVSFIDVEKLEAGKFEDKLIQSVIAARNFVVLVSAGALDKCM
 QDHDCKDWVHKEIVTALSCGKNI VPIIDGFWEPEPQALPEDMQAVLTFNGIKWSHEYQEATIEKIIRFLQ
 GRPSQDSSAGSDTSLEGATPMGLP

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9035_b01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_172795

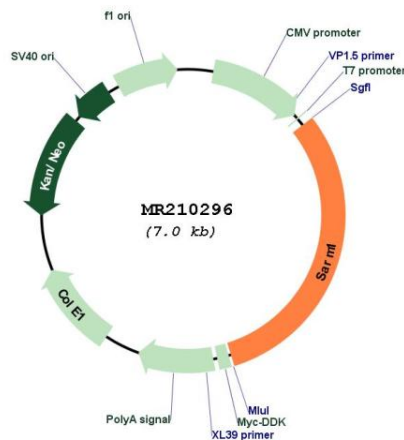
ORF Size: 2172 bp

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:	<u>NM_172795.3, NP_766383.2</u>
RefSeq Size:	5044 bp
RefSeq ORF:	2175 bp
Locus ID:	237868
UniProt ID:	<u>Q6PDS3</u>
Cytogenetics:	11 46.74 cM
MW:	80.1 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]

Product images:



Circular map for MR210296