

Product datasheet for **MG210296**

Sarm1 (NM_172795) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sarm1 (NM_172795) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sarm1
Synonyms:	A830091115Rik; C78606; MyD885; Sarm
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>MG210296 representing NM_172795
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGTCCTGACGCTGCTCTTCTCCGCTACAACTGTGCCGTTCTTACCATGTGAGGCCACGGCCGG
 GCGCCGATCGGCTGACAGTGCCCGACCGGATCGGAGTGGTGGCCAGCCCATGGTGGCTGCGGGCGG
 TCGCGGGTCTCGCGAAGTGTGCGCCGAGTGGGCACTGAGGTGCAAGGCCCTGGAGCGTTCGCTGCCT
 GAGCTGCAGCAGGCGCTGTCCGAGCTGAAACAGGCAAGCGCGCGGGGTGTGGCGCGGGTCTCGCCG
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 CGATGCTATACGCTGGACGGTGGCCTCGACTTGTGTTGCGGCTGCTTACAGCACCGGAGCTAGAGACC
 CGTGTGCAGGCCGCGCTTGTGGAGCAGATCCTGGTGGCTGAGAACCAGGACCGCTGGCGCGCATCG
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 GTGCTGTACTGGTCCCGCCACAGACCCGCGCTGTGCGCCACTGCGCTCTTGCCTGGCGAAGTGGC
 CGCTGCACGGGGCCAGACGGTGCACGGTGCATGGTGGAGAAGCGCGCCGCGAGTGGCTCTTCCCGCT
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 TGAGAGGCTGCCATCAAGAGCCTACAGGAAAGACCAAGGTGTTACGCGACATCGGCGCTATCCAGAGCC
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 TATCCAAAGCGTCATAGCGGCTCGCAATTTTGTCTGGTGTCTGCTGGGGCGCTGGATAAGTGCATG
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 CTTCAACGGCATCAAATGGTCCCATGAGTACCAGGAGGCCACCATCGAGAAGATCATCCGCTTCTACAG
 GGCCGCCCTCTCAGGACTCCTGCGCGGATCGGATACCAGTTTGGAGGGAGCTACGCCAATGGGTCTGC
 CT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG210296 representing NM_172795
Red=Cloning site Green=Tags(s)

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MVL TLLFSAYKLCRFF TMSGPRPGADRL TVPGPDRSGGASPWAAAGGRGSREVSPGVGTEVQGALERSLP
ELQQALSELKQASAAARAVGAGLA EEFVQL VEEAWLLPAVGREVAQGLCDAIRLDGGLDLLRLQAPELET
RVQAAARLLEQILVAENRDRVARIGLVILNLAKEREPVELARSVAGILEHMFKHSEETCQRLVAAGGLDA
VLYWCRRTDPALLRHCALALANCALHGGQTVQRCMVEKRAAEWLFPLAFSKEDELLRLHACLAVAVLATN
KEVEREVEHSGTLALVEPLVASLDPGRFARCLVDASDTSQGRGPDDLQSLVLLLDSSRLEAQCIGAFYLC
AEAAIKSLQGKTKVFSDIGAIQSLKRLVSYSTNGTTSALAKRALRLLGEEVPRRILPCVASWKEAEVQTW
LQQIGFSQYCENFREQQVDGDLRLTDEELQTDLGKSSITRKRFFRELTELKTFASYATCDRSNLDADW
LGS�DPRFRQYTYGLVSCGLDRSLLHRVSEQQLLEDGIRLGVHRTRILSAAREMLHSPLPCTGGKLSGD
TPDVFISYRRNSGSQLASLLKVHLQLHGFVSFIDVEKLEAGKFEDKLIQSVIAARNFVVLVSAGALDKCM
QDHDCKDWVHKEIVTALSCGKNI VPIIDGFEWPEPQALPEDMQAVLTFNGIKWSHEYQEATIEKII RFLQ
GRPSQDSSAGSDTSLEGATPMGLP
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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:

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_172795.3](#), [NP_766383.2](#)

RefSeq Size: 5044 bp

RefSeq ORF: 2175 bp

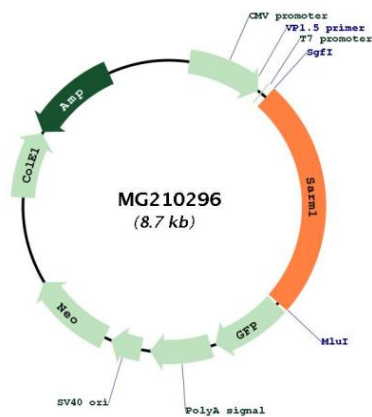
Locus ID: 237868

UniProt ID: [Q6PDS3](#)

Cytogenetics: 11 46.74 cM

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 MG210296