

Product datasheet for **MG201583**

Sip1 (BC053424) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Sip1 (BC053424) Mouse Tagged ORF Clone
 Tag: TurboGFP
 Symbol: Sip1
 Synonyms: Gemin2
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-AC-GFP (PS100010)
 E. coli Selection: Ampicillin (100 ug/mL)
 ORF Nucleotide Sequence: >MG201583 representing BC053424
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTATGTATTACTTAATTGTAGGATCGAAGCAGCCCAATGTCCAGATGTTGTGGTAGCCAGATTGACC
 CAAAGAAGTTGAAAAGGAAGCAAAGTGTGAACATTTCTGTTCCAGAGATTCAGTCCATTATCATCAAGGTG
 GGAGCATGGCAGTATCCAGGCAGGCTTGGCACAGGAGGAAGTCTACATCTTCATCCAAAGGCT
 GCTAGTGAAGACTGACTCCAGGCAACTAGGCTTTCCGGATGCCAGCCTGCGCCTGAAGTTACTCTCC
 AACACTTCAGTGGCAACAACAAGTGGCACATTTTTCAACTGTTCGACAGAGTGTACACAAGCATAGA
 AATCACTGGAAATCACAACAGTTGGACAGTAATGTGGCAATGCCAAAATCTGAAGATGAAGAAGGCTGGA
 AAAAAATTTGTCTGGGTGAAAGTTATGTGCTGAAGGGGCCACTGGACCGTCTACAGAGGAAAGCCCTGG
 GATCGATTATGTACAAGTTGGTTTTCTCTTTGCTTAGTATTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201583 representing BC053424
 Red=Cloning site Green=Tags(s)

MYVLLNCRIEAAQCPDVVVAQIDPKKLRKQSVNIVSVQRFSPSSRWEHGSIQAGLAQEELRVLHLHPKA
 ASGRLTPRQLGFPDASLRLKVTLQHFSGNNKWHIFQLFDRVYTSIEITGNHNSWTVMWQCQNLKMKKAG
 KNFVWVKGYVLKGPLDRLQRKALGSIMYKLVFLCLVL

TRTRPLE - GFP Tag - V

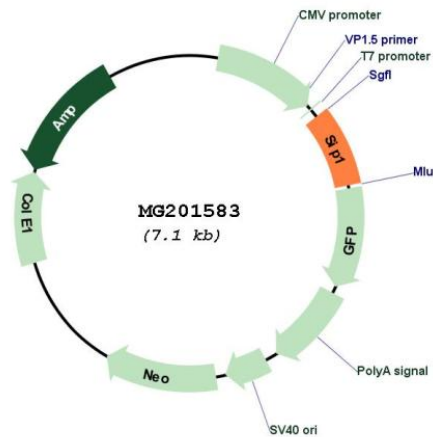
Restriction Sites: SgfI-MluI



Cloning Scheme:



Plasmid Map:



ACCN: BC053424

ORF Size: 536 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>BC053424</u> , <u>AAH53424</u>
RefSeq Size:	2064 bp
RefSeq ORF:	536 bp
Locus ID:	66603
Cytogenetics:	12 C1
Gene Summary:	This gene encodes one of the proteins found in the survival of motor neuron (SMN) complex, which consists of the SMN protein and several gemin proteins. The SMN complex is localized to a subnuclear compartment called gems (gemini of coiled bodies) and is required for assembly of spliceosomal small nuclear ribonucleoproteins (snRNP) and for pre-mRNA splicing. This protein interacts directly with the SMN protein and it is required for formation of the SMN complex. Disruption of this gene in mouse resulted in impaired snRNP assembly, and motor neuron degeneration. [provided by RefSeq, Sep 2015]