

Product datasheet for **MG224997**

Sim1 (NM_011376) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sim1 (NM_011376) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sim1
Synonyms:	bHLHe14; mSIM1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>MG224997 representing NM_011376
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAAGAAAAGTCTAAAAATGCTGCCGAACGAGGAGGAGAAAAGAAAACAGTGAATTTTATGAACTGG
CTAAATTAAGCTTTTACCTCAGCCATCACCTCCCAACTGGACAAGCATCCATCATCAGACTCAGCAG
CAGCTATCTCAAATGAGAGTGGTCTTTCCAGAAGGGCTTGGCGAGGCGTGGGGCCACACAGTCAAC
AGCCCCTTGGACAACGTTGGTCGCGAACTCGGCTCTCATCTACTCCAGACTCTGGATGGCTTCATCTTCG
TGGTGGCCCCAGATGGGAAGATCATGTACATTTACAGACAGCTTCAGTTCACCTGGGCCTTTCTCAGGT
AGAGCTGACTGGGAACAGCATCTATGAATATATCCACCCGGCTGACCACGATGAGATGACAGCCGTGCTC
ACAGCCCATCAGCCCTACCACTCTCACTTTGTACAGGAGTACGAGATCGAACGCTCCTTCTTTCTAAGGA
TGAAGTGTGTTTTGGCCAAGCGAATGCTGGCCTCACCTGCGGTGGCTACAAGGTCATTCAGTGTAGTGG
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GTGGCTGTGGGTCACTCCCTGCCTCCGAGTGTGTGACAGAGATCAAACACAGCAACATGTTTATGT
TCCGAGCCAGTCTGGATATGAAGCTTATTTTCTGGACTCCAGGGTGGCAGAGCTGACTGGATATGAACC
TCAGGACTTGATTGAGAAGACCTGTACCATCACGTGCATGGCTGTGACACCTTCCACCTACGCTGTGCA
CACCCTTACTGTTGGTGAAGGGACAAGTGACCACCAAGTACTACAGGTTCTTGGCGAAGCAGGGCGGCT
GGGTCTGGGTGACAGATTACGCCACCATCGTACACAACAGCCGCTCCTCCAGGCCGCACTGCATCGTCAG
CGTCAACTACGTCCTCACAGACAGAAATAACAAGGGCTACAGCTCTCCCTGGACCAGATATCAGCCTCT
AAGCCCCTTTCTCTATACCAGCAGTTCACCTCCACTATCTCGGACAACAGGAAGGGGGCCAAGTCAA
GGCTCTCCAGTAGCAAGTCAAAATCTAGGACCTCCCATATCCCAAGTATTCGGGATTCCATACTGAGAG
ATCGGAATCTGACCATGACAGCCAGTGGGGTGGAAAGTCCCTGACTGATACTGCCTCCCCACAGCTCCTG
GACCCAGAGAGGCTGGCTCTCAGCACGAATTGTCTGTGCGTATAGGCAGTTCACAGATCGCAGTTCTC
TCTGCTATGGTTTTGCTCTGGACCATTCCAGGCTGGTGGAGGACAGGCACTTCCACACCAAGCCTGCGA
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ATATCACCTCCATCCACAGAATCCACGGTCGAGGTCAGTGGATGAAGATAGTGTGGTCAGCTCTCCAGA
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CATATCCAGCAGAGAGAGGGAAAGATGCTCAGCCCTCATGAAAATGACTATGACAACAGCCCCACTGCAC
TGTCTCGGATAAGTAGTCTAGTCTGATCGCATTACAAAGTCTAGTTTAACTCCTGGCTAAAGACTATCT
ACATTCAGATATGTCTCCCATCAGACAGCAGGAGACCCTCCTGCCATCTCTCCAACTGTTTTGGCTCC
CACCGCAGTATTTTGATAAGCATGCCTATACATTGACTGGTTATGCCCTGGAACACTTATATGACAGTG
AGACTATTAGAACTATTCCTGGGCTGCAATGGCTCACACTTTGATGTGACTTCCCATCTAAGGATGCA
ACCAGACCCAGACAAGGACACAAGGGAACATCTGTTATAATAACCAATGGAAGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG224997 representing NM_011376
 Red=Cloning site Green=Tags(s)

MKEKSKNAARTREKENSEFYELAKLLPLPSAITSQLDKASIIRLTTSYLKMRVVFPEGLGEAWGHTSRT
 SPLDNVRELGSHLLQLTDGFI FVVAPDGKIMYISETASVHLGLSQVELTGNISIEYIHPADHDEMTAVL
 TAHQPYHSHFVQEYEIERSFFLRMKCVLAKRNAGLTCGGYKVIHCSGYLKRQYSLDMSFPDGCYQNVGL
 VAVGHSLPPSAVTEIKLHSNMFMRASLDMKLI FLDSRVAELTGYPQDLIEKTLYHHVHGCDTFHLRCA
 HLLLLVKGQVTTKYRFLAKQGGWVWVQSYATIVHNSRSSRPHCIVSVNYVLTDEYKGLQLSLDQISAS
 KPTFSYTSSTPTISDNRKGAKSRLSSSKSRSRTSPYPQYSGFHTERSESDHDSQWGGSPPLDASPQLL
 DPERPGSQHELSCAYRQFPDRSSLCYGFALDHSRLVEDRHFHTQACEGGRCEAGRYFLGAPPTGRDPWWG
 SRAALPLTKASPESREAYENSMPHITSIHRIHGRGHWEDESVVSSPDGSAESGDRYRTEQYQNSPHEP
 SKIETLIRATQQMIKEEENRLQLRKAPPDQLASINGAGKKHSLCFANYQQPPPTGEVCHSSALASTSPCD
 HIQQREGKMLSPHENDYDNSPTALSRISPPSSDRITKSSLILAKDYLSHSDMSPHQTAGDHPAISPNCFGS
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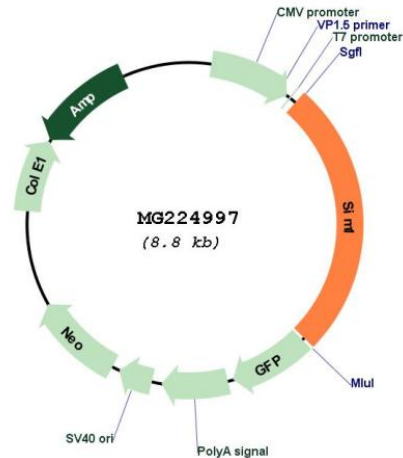
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:


ACCN: NM_011376

ORF Size: 2295 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_011376.3](#), [NP_035506.2](#)

RefSeq Size: 7355 bp

RefSeq ORF: 2298 bp

Locus ID: 20464

UniProt ID: [Q61045](#)

Cytogenetics: 10 24.87 cM

Gene Summary: Transcriptional factor that may have pleiotropic effects during embryogenesis and in the adult.[UniProtKB/Swiss-Prot Function]