

Product datasheet for **MR224997**

Sim1 (NM_011376) Mouse Tagged ORF Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Sim1 (NM_011376) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Sim1 |
| Synonyms: | bHLHe14; mSIM1 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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ORF Nucleotide Sequence:

>MR224997 representing NM_011376
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAAGAAAAGTCTAAAAATGCTGCCGAACGAGGAGGAGAAAAGAAAACAGTGAATTTTATGAACTGG
 CTAATAACTGCCTTTACCTCAGCCATCACCTCCCAACTGGACAAAGCATCCATCATCAGACTCAGCAG
 CAGCTATCTCAAATGAGAGTGGTCTTTCCAGAAGGGCTTGGCGAGGCGTGGGGCCACACAGTCAAGC
 AGCCCTTGGACAACGTTGGTCGCGAACTCGGCTCTCATCTACTCCAGACTCTGGATGGCTTCATCTTCG
 TGGTGGCCCCAGATGGGAAGATCATGTACATTTACAGACAGCTTCAGTTCACCTGGGCCTTTCTCAGGT
 AGAGCTGACTGGGAACAGCATCTATGAATATATCCACCCGGGTGACCACGATGAGATGACAGCCGTGCTC
 ACAGCCCATCAGCCCTACCACTCTCACTTTGTACAGGAGTACGAGATCGAACGCTCCTTCTTTTAAGGA
 TGAAGTGTGTTTTGGCCAAGCGAATGCTGGCCTCACCTGCGGTGGCTACAAGGTCATTCAGTGTAGTGG
 CTACCTGAAGATCCGCCAGTACAGCCTGGATATGTCTCCCTTTGATGGATGCTACCAAAATGTGGGCTTG
 GTGGCTGTGGGTCACTCCCTGCCTCCGAGTGTGTGACAGAGATCAAACACACAGCAACATGTTTATGT
 TCCGAGCCAGTCTGGATATGAAGCTTATTTTCTGGACTCCAGGGTGGCAGAGCTGACTGGATATGAACC
 TCAGGACTTGATTGAGAAGACCTGTACCATCACGTGCATGGCTGTGACACCTTCCACCTACGCTGTGCA
 CACCCTTACTGTTGGTGAAGGGACAAGTGACCACCAAGTACTACAGGTTCTTGGCGAAGCAGGGCGGCT
 GGGTCTGGGTGACAGATTACGCCACCATCGTACACAACAGCCGCTCCTCCAGGCCGACTGCATCGTCAG
 CGTCAACTACGTCCTCACAGACACAGAATAACAAGGGCTACAGCTCTCCCTGGACCAGATATCAGCCTCT
 AAGCCCACTTTCTCTATACCAGCAGTTCACCTCCACTATCTCGGACAACAGGAAGGGGGCCAAGTCAA
 GGCTCTCCAGTAGCAAGTCAAAATCTAGGACCTCCCATATCCCAAGTATTCGGGATTCATACTGAGAG
 ATCGGAATCTGACCATGACAGCCAGTGGGGTGGAAAGTCCCTGACTGATACTGCCTCCCCACAGCTCCTG
 GACCCAGAGAGGCTGGCTCTCAGCACGAATTGTCTGTGCGTATAGGCAGTTCACAGATCGCAGTTCTC
 TCTGCTATGTTTTGCTCTGGACCATCCAGGCTGGTGGAGGACAGGCACTTCCACACCAAGCCTGCGA
 GGGAGGACGGTGCAGGACAGGCAAGTACTTCTGGGAGCACCACTACTGGGAGAGATCCCTGGTGGGGC
 TCTCGAGCAGCTTTGCCTCTTACCAAGGCCTCCCGGAGAGCAGAGAAGCCTATGAGAACAGCATGCCTC
 ATATCACCTCCATCCACAGAATCCACGGTCGAGGTCAGTGGATGAAGATAGTGTGGTCAGCTCTCCAGA
 CCCTGGGTGAGCCAGTGAATCTGGTGACCGATACCGCACCGAACAGTATCAAAATAGCCACATGAACCT
 AGCAAAATTGAACTCTCATAAGAGCCACCCAGCAGATGATTAAGAGGAAGAGAACAGATTACAGCTAA
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 CTATCAACAGCCCCACCCACAGGTGAGGTCTGCCACAGCTCTGCTCTTGCCAGCACTTCCCATGTGAC
 CATATCCAGCAGAGAGAGGGAAAGATGCTCAGCCCTCATGAAAATGACTATGACAACAGCCCCACTGCAC
 TGTCTCGGATAAGTAGTCTAGTCTGATCGCATTACAAAGTCTAGTTTAACTCCTGGCTAAAGACTATCT
 ACATTCAGATATGTCTCCCATCAGACAGCAGGAGACCATCCTGCCATCTCTCCAACTGTTTTGGCTCC
 CACCGGACAGTATTTTGATAAGCATGCCTATACATTGACTGGTTATGCCCTGGAACACTTATATGACAGTG
 AGACTATTAGAACTATTCCTGGGCTGCAATGGCTCACACTTTGATGTGACTTCCCATCTAAGGATGCA
 ACCAGACCCAGCACAAGGACACAAGGGAACATCTGTTATAATAACCAATGGAAGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR224997 representing NM_011376
 Red=Cloning site Green=Tags(s)

MKEKSKNAARTREKENSEFYELAKLLPLSAITSQLDKASIIRLTTSYLKMRVVFPEGLGEAWGHTSRT
 SPLDNVRELGSLLQLTDGFI FVVAPDGKIMYISETASVHLGLSQVELTGNISIEYIHPADHDEMTAVL
 TAHQPYHSHFVQEYEIERSFFLRMKCVLAKRNAGLTCGGYKVIHCSGYLKRQYSLDMSPFDGCYQNVGL
 VAVGHSLPPSAVTEIKLHSNMFMFRASLDMKLIFLDSRVAELTGYPQDLIEKTLYHHVHGCDTFHLRCA
 HHLLL VKGQVTTKYRFLAKQGGWVWVQSYATIVHNSRSPHCVSVNYVLTDEYKGLQLSLDQISAS
 KPTFSYSSSTPTISDNRKGAKSRLSSSKSRTSPYPQYSGFHTERSESDHDSQWGGSPLTDTASPQLL
 DPERPGSQHELSCAYRQFPDRSSLCYGFALDHSRLVEDRHFHTQACEGGRCEAGRYFLGAPPTGRDPWWG
 SRAALPLTKASPESREAYENSMPHITSIHRIHGRGHWEDESVSSPDPGSAESGDRYRTEQYQNSPHEP
 SKIETLIRATQQMIKEEENRLQLRKAPPDQLASINGAGKKHSLCFANYQQPPPTGEVCHSSALASTSPCD
 HIQQREGKMLSPHENDYDNSPTALSRISSPSSDRITKSSLILAKDYLHSDMSPHQTAGDHPAISPNCFGS
 HRQYFDKHAYTLTGYLEHLDYSETIRNYSLGCNGSHFDVTSHLRMQPDAQGHKGTSVIITNGS

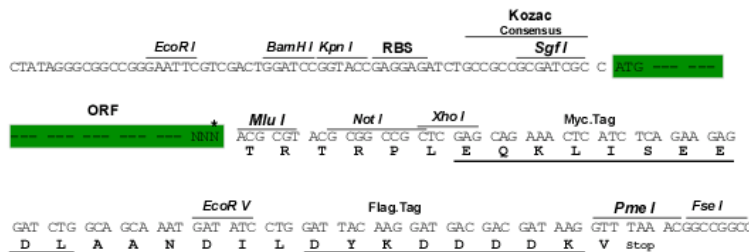
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9089_d04.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_011376

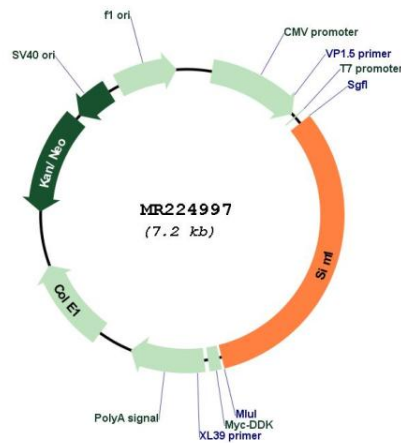
ORF Size: 2295 bp

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.

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| 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_011376.3, NP_035506.2</u> |
| RefSeq Size: | 7355 bp |
| RefSeq ORF: | 2298 bp |
| Locus ID: | 20464 |
| UniProt ID: | <u>Q61045</u> |
| Cytogenetics: | 10 24.87 cM |
| MW: | 85.5 kDa |
| Gene Summary: | Transcriptional factor that may have pleiotropic effects during embryogenesis and in the adult.[UniProtKB/Swiss-Prot Function] |

Product images:



Circular map for MR224997