

Product datasheet for **RR213606**

Sim1 (NM_001107641) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sim1 (NM_001107641) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sim1
Synonyms:	MGC189161
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide
Sequence:

>RR213606 representing NM_001107641
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAAGAGAAGTCTAAAAATGCTGCCCGACGAGGAGGAGAAAGAAAACAGTGAATTTTACGAACTGG
CTAAATTAAGTCCGTTACCTCAGCCATCACCTCGCAACTGGACAAAGCCTCGATCATCAGACTCAGCAG
CAGCTATCTCAAAATGAGAGTGGTCTTTCCGGAAGGGCTTGGCGAGGCGTGGGGTACACACAGTCAAC
AGCCCTCTGGATAACGTTGGTCGCGAACTCGGCTCTCATCTACTCCAGACTCTGGATGGCTTCATCTTTG
TGGTGGCCCCAGATGGGAAGATCATGTACATCTCAGAGACAGTTTCAAGTTCACCTGGGCCTTTCTCAGGT
AGAAGTACTGGGAACAGCATCTATGAATATATCCACCCGGTGTATGATGAGATGACAGCAGTGTCTC
ACAGCCCATCAACCCTACACTCTCACTTTGTACAGGAGTACGAGATCGAACGCTCCTTCTTTCTAAGGA
TGAAGTGTGTTTTGGCCAAGCGAATGCTGGCCTCACCTGCGGTGGCTACAAGGTCATTCAGTGTAGCGG
CTACCTGAAGATCCGCCAGTACAGCCTGGATATGTCTCCCTTTGATGGGTGCTACCAAAATGTGGGTTTG
GTGGCTGTGGGTCACTCCCTGCCTCCGAGCGCTGTGACAGAGATCAAACACACAGCAACATGTTTATGT
TCCGAGCCAGTCTGGACATGAAACTCATTTTCTGGACTCCAGGGTAGCAGAGCTGACTGGGTATGAACC
TCAGGACTTGATTGAGAAGACCTGTACCATCACGTGCACGGCTGTGACACCTTCCACCTACGCTGTGCA
CACCATTTACTGTTGGTGAAGGGTCAAGTGTACCAAGTACTACAGGTTCTTGGCAAAACACGGCGGCT
GGGTCTGGGTGCAGAGTTACGCCACCATCGTACACAACAGCCGCTCCTCCAGGCCGCACTGCATCGTCAG
CGTTAACTACGTCCTCACAGACAGAAATAAAAGGGTGCAGCTCTCTGACCAGATATCACCTCT
AAGCCCACTTTCTCTATACCAGCAGTTCACACCCACCATCACTGACAACAGGAAGGGGGCCAAGTCAA
GGCTCTCTAGTAGCAAGTCAAAATCCAGGACCTCCCATATCCCCAGTATTCGGGATCCACACTGAAAG
ATCAGAATCTGACCATGACAGCCAGTGGGGTGGAAAGTCCCTGACTGATACTGCCTCCCCACAGCTCCTG
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TCTGCTATGGCTTTGCGCTGGACATTCCAGGCTGGTGGAGGACAGGCACTTCCACACCAAGCCTGCGA
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CACATCCAGCAGAGAGAGGGAAAGATGCTTAGCCCTCACGAAAACGACTATGACAACAGTCCCAGTGCAC
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ACATTCAGATATGTCTCCTCATCAGACAGCAGGAGACCATCCTGCCATCTCTCCAACTGTTTTGGCTCC
CACCGGCAGTATTTTGATAAGCATGCCTATACGTTAACTGGTTATGCCCTGGAACATTTATATGACAGTG
AGACTATTAGGAATATTCCTTGGGCTGCAATGGCTCACACTTTGATGTAACCTCCCATCTAAGGATGCA
GCCGGACCCAGCGCAAGGACACAAGGGAACATCTGTTATAATAACCAATGGAAGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR213606 representing NM_001107641
 Red=Cloning site Green=Tags(s)

MKEKSKNAARTREKENSEFYELAKLLPLPSAITSQLDKASIIRLTTSYLKMRVVFPEGLGEAWGHTSRT
 SPLDNVRELGSHLLQTLDFGIFVVAPDGKIMYISETASVHLGLSQVELTGNISIEYIHPADHDEMTAVL
 TAHQPYHSHFVQEYIEIERSFFLRMKCVLAKRNAGLTCGGYKVIHCSGYLKRQYSLDMSFPDGCYQNVGL
 VAVGHSLPPSAVTEIKLHSNMFMFRASLDMKLIFLDSRVAELTGYPQDLIEKTLYHHVHGCDTFHLRCA
 HHLLLVKGQVTTKYRFLAKHGGWVWVQSYATIVHNSRSSRPHCI VSVNYVLTDEYKGLQLSLDQISPS
 KPTFSYTSSTPTITDNKGAKSRLSSSKSRTSPYPQYSGFHTERSESDHDSQWGGSPPLTDTASPQLL
 DPERPGSQHELSCAYRQFPDRGSLCYGFALDHSRLVEDRFHTQACEGGRCEAGRYFLGAPPAGRDPWWG
 SRAALPLTKASPESRETYENSMPHITSVHRLHGRGHWEDESVSSPDPGSAESEGDYRSEYQNSPHEP
 SKIETLIRATQQMIKEEENRLQLRKAPPDQLASINGAGKKHSLCFANYQQPPPAGEVCHSSALTSTSPCD
 HIQQREGKMLSPHENDYDNSPTALSRISSPSSDRITKSSLILAKDYLSHSDMSPHQTAGDHPAISPNCFGS
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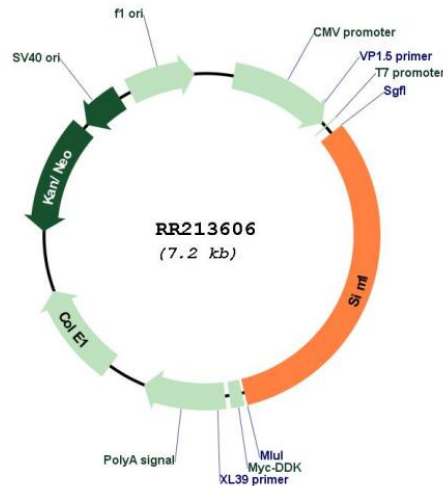
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001107641

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_001107641.1](#), [NP_001101111.1](#)

RefSeq Size: 7666 bp

RefSeq ORF: 2298 bp

Locus ID: 309888

Cytogenetics: 20q13
MW: 85.5 kDa