

Product datasheet for **RR201603**

Sim2 (NM_001107108) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sim2 (NM_001107108) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sim2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide
Sequence:

>RR201603 representing NM_001107108
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAAGGAGAAGTCCAAAAATGCGGCCAAAACCAGGAGGGAGAAGGAAAATGGCGAGTTTTACGAGCTGG
CCAAGCTGCTCCCGCTGCCTTCGGCCATCACCTCGCAGCTGGACAAAGCTTCCATCATCCGGCTCACCCAC
CAGCTACCTGAAGATGCGCGCAGTCTTCCCGGAAGGTCTAGGAGATGCGTGGGGACAGCCGAGCAGAACA
GGGCTCTGGACAGCTGGCCAAAGAAGTCCATTTGCTGCAGACTCTAGATGGATTTGTGTTTTG
TGGTGGCCTCTGATGGCAAAATCATGTATATATCGGAGACCGCTTCTGTCCATTTAGGCTTGTCCCAGGT
GGAGCTCACAGGCAACAGTATTTACGAATACATCCATCCTTCTGACCACGACGAGATGACAGCAGTACTG
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TGAAGTGGCTCTTGGCAAAAAGAAATGCAGGCCTGACGTGCAGTGGATACAAGGTCATTCAGTGCAGTGG
CTACTTAAAGATCAGGCAGTACATGCTGGACATGTCCCTGTATGACTCCTGTTACCAGATTGTGGGGCTG
GTGGCCGTGGGCCAGTCCGTGCCACCCAGCGCCATCACGGAGATCAAACCTCCACAACAATATGTTATGT
TCAGAGCCAGCCTCGACCTGAAGCTCATTTCTGGATTCCAGGGTGACAGAGCTTACCGCTATAGACC
ACAGGACCTGATTGAAAAACACTCTACCATCATGTGCACGGCTGTGACACCTTCCACCTCCGCTATGCA
CACCACCTCTTGCTTGTGAAGGGCCAGGTACCACCAAACTACTACCGGCTGCTTCAAAGCTGGGCGGCT
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TGTCATTATGTTCTCACGGAGTGAATAACAAGAACTTACAGTCTCTCTGGACCAGGTATCCACCTCT
AAGTCCCAGGAGTCCCTGGAGAACCACCTTGTCTACCTCACAAGAACTAGGAAATCAGCTAAACCCAAAA
CCACGAAGATGAGGACAAAGCTGAGAACAACCCATATCCCTCACAGCAATACAGCTCGTTCCAAATGGA
CAAACCTGGAGTGCAGCCAGGCGGGAAACTGGAGAACGAGTCCCCCACAAGTGTGTGGCTCCCCCGGAA
CAGCAGCTCCATTAGAAGCCAGCGACCTTTTATATGGGCGGCCCTACAGCCTCCCTTCTCCTACCGTT
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TGGCATTATGCCAACTCCCTCATGCCAGCAGCCCTTACCAGCTAAAAACCTTTCTGAGTCTCCTGTGA
ATGCTGCCCGGCATGGACTTGTGCCAACTATGAAGCGCCCGCCGCCACCGCGCGCAGGTTCCGGCAGGA
CCCCGCACCTCAAGCTTCCCGAGCTGCGGCCACTACCGCGAGGAGCCGACGCTGGGCTCCGCCAAGGCA
GCTCGCCAGGCGTCCCGGACACAGCCGACTGGCGCTGGCCGAGCGACCCCGAGTGTGCGCGCCGC
CGGCCCCGAGCCACAGGCGCCGCGCAGCTGCCCTTCGTGCTGCTCAACTACCACCGCGTGTGGCGCG
CCGCGGGCCGCTGGGGAGCGCTGCGCCCGAGCTCCGGAGGCGGCGGCTCGCTGCGGCCCGACACCCG
GGCCCGGTTCGAGCCTCTGCACCCGGCGCGCCCGGCCACACTACCTGGGCGCCTCGGTATCATACCA
ACGGCAGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR201603 representing NM_001107108
 Red=Cloning site Green=Tags(s)

MKEKSKNAAKTRREKENGFEYELAKLLPLPSAITSQLDKASIIRLTTSYLKMRVFPPEGLGDAWQQPSRT
 GPLDSVAKELGSHLLQTLDFGVFVVASDGKIMYISETASVHLGLSQVELTGNSIYEYIHPSDHDEMTAVL
 TAHPPHLLHLLQEYEIERSFFLRMKCVLAKRNAGLTCSGYKVIHCSGYLKRQYMLDMSLYDSCYQIVGL
 VAVGQSLPPSAITEIKLHNNMFMFRASLDLKLIFLDSRVTELTGYEPQDLIEKTLYHHVHGCDTFHLRYA
 HHLLLVKGQVTTKYRLLSKLGGVWVQSYATVVHNSRSPHCIVSVNYVLTEVEYKELQLSLDQVSTS
 KSQESWRTTLLSTSQETRSKAPKTKMRTKLRTNPYPSQQYSSFQMDKLECSQAGNWRTPPTSAPAPPE
 QQLHSEASDLLYPPYSLPF SYRYGHFPLDSHVFSSKKPGLPAKFGQPQGSPEVARFFLSTLPASSECQ
 WHYANSLMPSSPSAKNLSESPVNAARHGLVPNYEAPAAATARRFGEDPAPSSFPSCGHYREEPTLGA
 ARQASRDARLALARATPECCAPPAPQPAPAQLPFVLLNYHRVLARRGPLGSAAPGAPEAAGSLRPRHP
 GPVAASAPGAPRPHYL GASVVIITNGR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

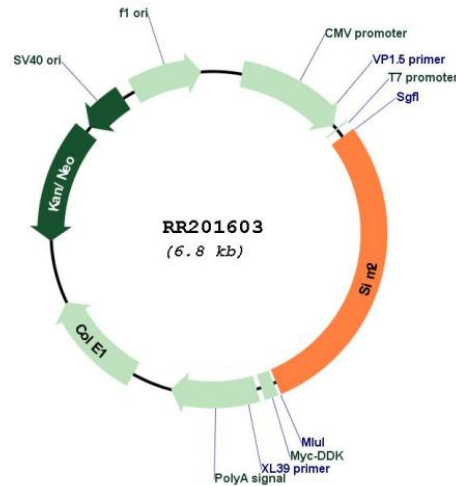
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001107108

ORF Size: 1968 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_001107108.3](#), [NP_001100578.1](#)
RefSeq Size: 3683 bp
RefSeq ORF: 1971 bp
Locus ID: 304071
Cytogenetics: 11q11
MW: 72.5 kDa