

Product datasheet for **SC303573**

SIM1 (NM_005068) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SIM1 (NM_005068) Human Untagged Clone
Tag:	Tag Free
Symbol:	SIM1
Synonyms:	bHLHe14
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_005068, the custom clone sequence may differ by one or more nucleotides

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ATGAAAGAAAAGTCCAAAAATGCTGCGCGGACTAGGAGGGAGAAGGAAAACAGTGAATTTTATGAACTGG
CTAAATTACTGCCTTTGCCCTCGGCTATCACCTCGCAGCTGGACAAAGCATCCATAATCAGACTCACGAC
CAGCTATCTCAAATGAGAGTGGTGTCCAGAAAGGGCTCGGCGAGGCGTGGGGCCACTCAAGTCGGACC
AGCCCCCTGGACAACGTTGGCCGAGAAGTGGGCTCCCATCTGCTCCAGACCCTGGATGGCTTCATCTTCG
TGGTAGCCCCAGATGGGAAGATCATGTACATCTCAGAGACAGCCTCAGTCCACTTGGGTCTTTCTCAGGT
AGAGCTGACCGGAAAACAGCATTTATGAATACATTCACCCGGCAGACCACGACGAGATGACGGCGGTGCTC
ACCGCCCATCAACCCTACCCTCCTCCTCGTGCAGGAGTATGAGATCGAGCGCTCCTTCTCTGAGGA
TGAAGTGCCTTGGCCAAGCGTAACGCCGGCCTCACCTGTGGCGGTACAAGGTCATCCACTGCAGCGG
CTACTTGAAGATCGCCAGTACAGCCTGGACATGTCCCCTTCGACGGCTGCTACCAAACGTGGGCGCTG
GTGGCCGTGGGCCACTCGCTGCCTCCCAGCGCCGTACGGAGATCAAGCTACACAGCAATATGTTTATGT
TCCGCGCCAGCCTGGACATGAAGCTCATCTTTCTGGACTCCAGGGTGGCGGAGCTGACGGGGTACGAACC
TCAGGACCTGATTGAGAAGACTCTGTACCACCATGTGCACGGCTGCGACACCTTCCACCTGCGCTGCGCG
CACCATTTGCTGCTGGTGAAGGGACAGGTGACCACCAAGTACTACAGTTTCTGGCGAAAACAGCGCGGT
GGGTATGGGTGCAGAGCTACGCGACCATCGTGCACAACAGTGCCTCCTCCAGGCCACACTGTATCGTCAG
CGTCAACTATGTCCTCACAGACACAGAATACAAAGGGCTGCAGCTCTCCCTGGATCAGATCTCAGCCTCC
AAACCAGCCTTCTCTATACCAGCAGCTCCACCCCAACATGACTGACAACAGAAAGGGGGCCAAATCCC
GGCTCTCCAGCTCAAAGTCAAATCCAGGACTTCCCCATACCCTCAGTATTCGGGATTTTCACACAGAAAG
ATCGGAATCTGATCATGACAGCCAGTGGGGCGGAAGTCCCTTGACCGACACGGCCTCTCCGACGCTTCTG
GACCCCGCCGATAGGCCGGCTCCAGCACGACGCATCGTGCCTACAGACAGTTCGACGACGCTTCTG
CTCTCTGCTATGGCTTTGCGCTTGACCACTCGAGGCTGGTGAAGAGAGGCATTTCCATACCCAGGCCTG
TGAAGGAGGCCGATGTGAGGCAGGCAGGTACTTCTGGGAACGCCGACGGCCGGGAGGGAGCCCTGGTGG
GGCTCTCGCGCAGCCTTGCCCTGACAAAGGCCTCCCCAGAAAGCAGAGAAGCCTATGAAAAACAGCATGC
CTCACATCGTTCAGTCCACAGGATCCATGGGCGAGGTCATTGGGATGAAGATAGTGTGGTCAGTTCTCC
AGACCCTGGGTCGGCCAGTGAATCAGGTGACCGATATCGTACTGAGCAGTATCAAAGTAGCCACATGAA
CCCAGCAAATTTGAAACTCTTATAAGAGCCACTCAGCAAATGATTAAGAAGAAGAGAACAGATTACAGC
TAAGGAAAGCCCCCTCAGACCAACTGGCTTCCATTAATGGGGCTGGGAAAAAACACTCCCTGTGTTTTGC
AAACTACCAACAGCCCCACCAACAGGTGAAGTCTGCCATGGCTCTGCTTGGCAACACTTCACCATGT
GACCATATCCAGCAGAGAGAGGGAAAAATGTTGAGCCCCATGAAAATGACTATGACAACAGTCCCACCG
CACTATCTCGGATAAGTAGTCCCAATTCGGATCGCATTTCAAATCCAGTTTGATCCTAGCTAAAGACTA
TCTGCATTGCGATATATCTCTCATCAGACAGCAGGAGACCACCTACTGTCTCTCCAAACTGCTTTGGC
TCTCACCGGCAGTATTTTGACAAGCATGCTTACACATTAAGTGGATATGCCCTGGAGCACTTATATGACA
GCGAAACCATTAGAACTATTCCTTGGGCTGTAATGGCTCACACTTTGATGTAACCTCCCATCTGAGGAT
GCAACCAGACCCAGCACAAAGGACACAAGGGAACATCTGTTATAATAACCAACGGAAGCTGA
    
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Restriction Sites: Please inquire
ACCN: NM_005068
Insert Size: 2300 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_005068.2.
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:	NM_005068.2 , NP_005059.2
RefSeq Size:	3995 bp
RefSeq ORF:	2301 bp
Locus ID:	6492
UniProt ID:	P81133
Cytogenetics:	6q16.3
Protein Families:	Druggable Genome, Transcription Factors
Gene Summary:	<p>SIM1 and SIM2 genes are Drosophila single-minded (sim) gene homologs. SIM1 transcript was detected only in fetal kidney out of various adult and fetal tissues tested. Since the sim gene plays an important role in Drosophila development and has peak levels of expression during the period of neurogenesis, it was proposed that the human SIM gene is a candidate for involvement in certain dysmorphic features (particularly the facial and skull characteristics), abnormalities of brain development, and/or cognitive disability of Down syndrome. [provided by RefSeq, Jul 2008]</p>