

## Product datasheet for **SC303922**

### **SIM2 (NM\_009586) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	SIM2 (NM_009586) Human Untagged Clone
Tag:	Tag Free
Symbol:	SIM2
Synonyms:	bHLHe15; HMC13F06; HMC29C01; SIM
Mammalian Cell Selection:	Neomycin
Vector:	<u>PCMV6-Neo</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_009586 edited  
 GCGATGAAGGAGAAGTCCAAGAATGCGGCCAAGACCAGGAGGGAGAAGGAAAATGGCGAG  
 TTTTACGAGCTTGCCAAGCTGCTCCCGCTGCCGTGCGCCATCACTTCGCAGCTGGACAAA  
 GCGTCCATCATCCGCCTCACCACGAGCTACCTGAAGATGCGCGCCGTCTTCCCGAAGGT  
 TTAGGAGACGCGTGGGGACAGCCGAGCCGCGCCGGGCCCTGGACGGCGTCGCCAAGGAG  
 CTGGGATCGCACTTGTGCAGACTTTGGATGGATTTGTTTTTTGTGGTAGCATCTGATGGC  
 AAAATCATGTATATATCCGAGACCGCTTCTGTCCATTTAGGCTTATCCCAGGTGGAGCTC  
 ACGGGCAACAGTATTTATGAATACATCCATCCTTCTGACCACGATGAGATGACCGCTGTC  
 CTCACGGCCACACGCCCTGCACCACCACCTGCTCCAAGAGTATGAGATAGAGAGGTGCG  
 TTCTTTCTTGAATGAAATGTGTCTTGGCGAAAAGGAACGCGGCCTGACCTGCAGCGGA  
 TACAAGGTCATCCACTGCAGTGGCTACTTGAAGATCAGGCAGTATATGCTGGACATGTCC  
 CTGTACGACTCCTGCTACCAGATTGTGGGGCTGGTGGCCGTGGGCCAGTCGCTGCCACCC  
 AGTGCCATCACCGAGATCAAGCTGTACAGTAACATGTTTCATGTTACAGGGCCAGCCTTGAC  
 CTGAAGCTGATATTCCTGGATTCCAGGGTGACCGAGGTGACGGGTTACGAGCCGAGGAC  
 CTGATCGAGAAGACCCTATACCATCACGTGCACGGCTGCGACGTGTTCCACCTCCGCTAC  
 GCACACCACCTCCTGTTGGTGAAGGGCCAGGTCACCACCAAGTACTACCGGCTGCTGTCC  
 AAGCGGGGCGGCTGGGTGTGGGTGCAGAGCTACGCCACCGTGGTGCACAACAGCCGCTCG  
 TCCCGGCCCACTGCATCGTGAGTGTCAATTATGTACTCACGGAGATTGAATACAAGGAA  
 CTTTCAGCTGTCCCTGGAGCAGGTGTCCACTGCCAAGTCCCAGGACTCCTGGAGGACCGCC  
 TTGTCTACCTCACAAGAACTAGGAAATAGTGAACCCAAAAATACCAAGATGAAGACA  
 AAGCTGAGAACAAACCCTTACCCCCACAGCAATACAGCTCGTTCCAAATGGACAACTG  
 GAATGCGGCCAGCTCGGAACTGGAGAGCCAGTCCCCGCAAGCGCTGCTGCTCCTCCA  
 GAACTGCAGCCCCACTCAGAAAGCAGTGACCTTCTGTACACGCCATCCTACAGCCTGCC  
 TTCTCCTACCATTACGGACACTTCCCTCTGGACTCTCACGTCTTACGAGCAAAAAGCCA  
 ATGTTGCCGGAAGTTCGGGCAGCCCCAAGGATCCCCTTGTGAGGTGGCAGCTTTTTTC  
 CTGAGCACACTGCCAGCCAGCGGTGAATGCCAGTGGCATTATGCCAACCCCTAGTGCCT  
 AGCAGCTCGTCTCCAGCTAAAAATCCTCCAGAGCCACCGGCGAACACTGCTAGGCACAGC  
 CTGGTGCCAAGCTACGAAGGTGGGTGAGTCTGCTCGTGGGGAAGGTGGGAGGACTGCGC  
 ACGGCCGGGAGCCGAAGCAGCCATGGCGGTGGGTGGCAGATGGAGACAGAACCCCTCACGC  
 TTTGGGCAAACTTGCCCTCTTTCTGCTTCTAAGTAGGGCTTGCTGTGCTTTCTTGTCT

- Restriction Sites:** Please inquire
- ACCN:** NM\_009586
- Insert Size:** 1800 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** The ORF of this clone has been fully sequenced and found to contain one SNP compared with NM\_009586.1.
- 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_009586.1</a> , <a href="#">NP_033664.1</a>
<b>RefSeq Size:</b>	2823 bp
<b>RefSeq ORF:</b>	1713 bp
<b>Locus ID:</b>	6493
<b>UniProt ID:</b>	<a href="#">Q14190</a>
<b>Cytogenetics:</b>	21q22.13
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Gene Summary:</b>	<p>This gene represents a homolog of the Drosophila single-minded (sim) gene, which encodes a transcription factor that is a master regulator of neurogenesis. The encoded protein is ubiquitinated by RING-IBR-RING-type E3 ubiquitin ligases, including the parkin RBR E3 ubiquitin protein ligase. This gene maps within the so-called Down syndrome chromosomal region, and is thus thought to contribute to some specific Down syndrome phenotypes. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Sep 2014]</p> <p>Transcript Variant: This variant (SIM2s) contains alternate 3' exon structure, and it thus differs in the 3' coding region and 3' UTR, compared to variant SIM2. The encoded isoform (short) has a distinct C-terminus and is shorter than isoform long.</p>