

## Product datasheet for **MR223574**

### Sim2 (NM\_011377) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sim2 (NM_011377) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sim2
Synonyms:	bHLHe15
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MR223574 representing NM\_011377  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAAGGAGAAGTCCAAAAATGCGGCCAAAACCAGGAGGGAGAAGGAAAATGGCGAGTTTTACGAGCTGG  
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 CCAACGGCAGG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
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**Protein Sequence:** >MR223574 representing NM\_011377  
Red=Cloning site Green=Tags(s)

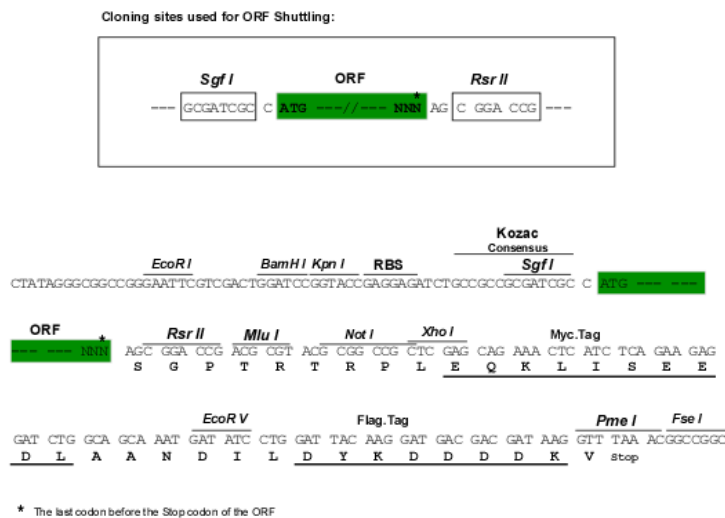
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 KSQESWRTTLSTSQETRKSAPKNTKMKTKLR TNPYPPQQYSS FQMDKLECSQVGNWRTSPPTNAVAPPE  
 QQLHSEASDLLYPPYSLPF SYHYGHFPLDSHFVSSKKPGLPAKFGQPQGSPCEVARFFLSTLPASSECCQ  
 WHCANSLVPSSSSPAKNLSESPVNAARHGLVPNYEAPSAARRFCEDPAPPSFPSCGHYREEPALGPAK  
 APRQASRDAARLALARAPPECCAPPAPEPQAPAQLPFVLLNYHRVLRARGPLGSAAPGAPEAAGSLRPRH  
 PGPVAASAPGAPRPHYL GASVIIITNGR

SGPTRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9036\\_h11.zip](https://cdn.origene.com/chromatograms/mm9036_h11.zip)

**Restriction Sites:** SgfI-RsrII

**Cloning Scheme:**



**ACCN:** NM\_011377

**ORF Size:** 1971 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\\_011377.2](#), [NP\\_035507.2](#)

**RefSeq Size:** 3670 bp

**RefSeq ORF:** 1974 bp

**Locus ID:** 20465

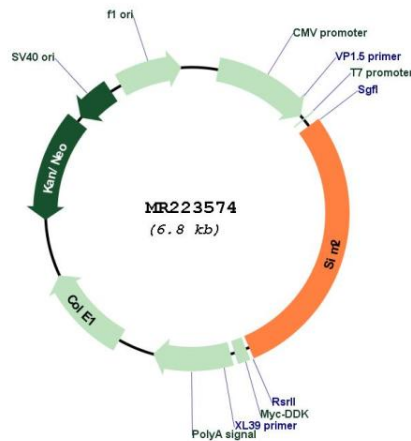
**UniProt ID:** [Q61079](#)

**Cytogenetics:** 16 55.05 cM

**MW:** 73 kDa

**Gene Summary:** Transcription factor that may be a master gene of CNS development in cooperation with Arnt. It may have pleiotropic effects in the tissues expressed during development. [UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR223574