

## Product datasheet for **MC223804**

### Slf2 (NM\_001081225) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Slf2 (NM_001081225) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Slf2
Synonyms:	3632432H19; 6030443O07Rik; AU014917; Fam178a; Slf2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC223804 representing NM_001081225 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACAAGGCGCTGCATGCCCGTAGGCCAGGTTCCCTCATCCCAGCCCCGGGGTCGTCGCCCCGC  
GCTGCCATCTGAGACCCGGTAGTACCGCCCTGCTGCAGCGGGAAAAAGAACAGAGAGTCTGGGGACAG  
GAAACAGTCAATCATAGATTTCTCAAGCCAGCTGCAAAAACAAGACAAACATATGTTGGATTGCGCTCAA  
AAATCAAACATCAAATACAGAGGAAATGGATTATCCATCACTGGGACAGAGCAATTTGAAAGGAAATAT  
CTTCACCAAAAAAATTAACCTAAGAGGATGTCATCAGAAGAAAGTCTATTTTAGAGGCTTTTCATGAA  
AGGTGGGAAGGAGCACCACAAAGATCGTGGTGTCCATGAGTCACGCGGCCCTGTATGTCTAAGCAAA  
TATTTACCCAAAGGAGCTGGCATCTATGCTCCTTCTTATCGATTGCCAAAGAGATCAAGGCACAGA  
AGAAAAACACAGTCTCCTGAGAGAAGGAAGTCACTGTTTCATTCATGAAAGTAACAGGGAGAAGATGA  
CAGAGATCGAGGCAAGAACAGTGAAGACTCCAGAAAAACAGGCCACAGCCACAGAAGGTGACATCTCAAG  
CATAGCTCCAGAAGTATTAGTAGCAGAAGCAGCCTGTCCAGGCACCATCCAGGAGAAAGCACACTGGGG  
CTAGGTTCCAGCTGTCATTAGCTTCTTACTGCCGAGAGCGAGAACAGAAGAAGTTGAGAAAGGAACAAAT  
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CAACTCTGAAAAATGGACATCTCTCAAGAAAAAGATCATCTTCAGACTCGTGGAACTTTTCAGGCTTAA  
ACAGAATAAATTTCCGACAAAAAGAAAGGAACTCTGTGGACTCAGACCTGAAAAGCACAAAAAGACCT  
ATCATACCAAAAGCAAGAGAGTCTTTCTAGAGAAGCGCCAGACACATCCCATCAGAGAGAAAAGTTTA  
TCAGACACATTGCACTGAAGACTCCTGGTGGTGTCTGCGCTTGGAAAGACATAGCCAAGGAGCCTGAGGA  
CGAGACAGATCGCTTTCTGCAGACTCGGCACCTTCAAATGCTGGCCACCATTCTCCAGGAATAGTGAC  
CAAGTCCACTCAGCAAGTACCAAGAGACTAAAAACAGAAACCCCACTTACCTTTACCTCAGGAAAAAT  
CTACAATTAAGAGCTAGCAACCTTCAGAAAAACAACCGGCTGGCTCTGTGACATCAAAAGAGACAAA  
GCTACCTTACTTTCCATGTTCCAAGTCTGTTTCTCTCGAGTACCACTAAATGCTAAAAATTGCACT



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CTTCCAGTTCCTAAAAAGATAAAGAGCGTTCCTCCTCAAAGAACGTTCTGGGCATTCTACAGAATCCT  
 CCAAACAAGGAACACAGAGCAAAGACTATTAAGGCTGTTTCTAATGAATCGTCAGGAAAAATTTCTGG  
 GGGATCTTTGCATTACAGAGTATGCCCTCCAACAGCATCTCCCCAGCTGCCTTGGAAAGTCGTGCCGAGT  
 GTCCCAAGCCCTGCAGCACCTTCAGATAAAGAGAGTTCAGGAAATTC AATGCAGGTAGCAATGCACTGA  
 AAAGGAAATTCAGGGGTGATTTTGATAGTGAAGAAAGTTTAGGTTACACCTTAGAGAGTGATGAGGA  
 AGAGGAAACACTAAAACACTGGAAGAAATAATGGCTCTGAACTCAGTCGGACTCCTACAACCTCAGGA  
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 TGAAGATTCACCTTATAGTCCAGTATTTTCAGCTCTTCTGAAACCAACATTTTAAATGTGGTTAAGTTC  
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 TGTTTAAATGAGTTTGGAAAAAGAGCTTAAACAGATTCCATTAGTAGACTTTTCAGAGCCTCCTGATAAA  
 TCTCATGAAAAACATCAGAGATTGGAACACAAAGGTTTCATGAACTCTGTCTGGGCATAAATGAACTCTCC  
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 GGCAGTGCCTCAGTCTGGTGATGATGTCAAAGCTTTTGGATGAAAAGCATGAAGATATTCCTAATGCCAA  
 TAACCTTCAGATCTCGGTCCTGCATCGATATCTTGTGCAGATGAAGCCTTCTGATTTGTTGAAGAAAATG  
 GTCTTGAAGAAAAGGCCGAACAGCCTAAATGAAACTATTGATGACAGTCTTCATTTAGAACTTGAAAAGC  
 AGGCATATTACCTGACCTACATCCTTCTTCATTTAGTTGGGGAAGTTAGTTGCTCTCATTCTCTTTCTTC  
 TGGACAACGAAACACTTCGTGCTGCTTTGTGGGCTTTGGAAAAGCATGTTAAGTGTGATATTAGGGAA  
 GATGCAAGACTTTTCTACAGAACTAAAGTGAAGACTTGGTTGCCAGAATACATGAAAAATGGCAGGAAA  
 TAATTCAGAACTGTCGGCCTACTCAGGGCAGCTTCATGACTTCTGGGTGCCAGATTCTTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM\_001081225
- Insert Size:** 3492 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).
- 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\\_001081225.1](#), [NP\\_001074694.1](#)

**RefSeq Size:** 6880 bp

**RefSeq ORF:** 3492 bp

**Locus ID:** 226151

**Cytogenetics:** 19 C3

**Gene Summary:** Plays a role in the DNA damage response (DDR) pathway by regulating postreplication repair of UV-damaged DNA and genomic stability maintenance. The SLF1-SLF2 complex acts to link RAD18 with the SMC5-SMC6 complex at replication-coupled interstrand cross-links (ICL) and DNA double-strand breaks (DSBs) sites on chromatin during DNA repair in response to stalled replication forks. Promotes the recruitment of the SMC5-SMC6 complex to DNA lesions. [UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).