

Product datasheet for **SC100556**

SLFN11 (NM_152270) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLFN11 (NM_152270) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLFN11
Synonyms:	SLFN8/9
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC100556 sequence for NM_152270 edited (data generated by NextGen Sequencing)

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ATGGAGGCAAATCAGTGCCCTGGTTGTGGAACCATCTTACCCAGACCTGGTCATCAAT
GTAGGAGAAGTGACTCTTGGAGAAGAAAACAGAAAAAGCTGCAGAAAATTCAGAGAGAC
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ATTCGAATGGCCAAGAAGGTTGAGCATCCCGTGGAGATGGGACTGGATTTAGAACAGTCT
TTGAGAGAGCTTATTCAGTCTTCAGATCTGCAGGCTTTCTTTGAGACCAAGCAACAAGGA
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GTCAAGCCCCGCCTTTGCAGCCTCAGTTCTTATTATACCGTAGATCTGAGACCTCTGTG
CGTTCCATGGACTCAAGAGAGGCATTCTGTTTCCCTGAAGACCAAAAAGGAAGCCAAAAATC
TTGGAAGAAGGACCTTTTCAAAAATTCACAAGGGTGTATACCAAGAGCTCCCTAACTCG
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CATTAG

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Clone variation with respect to NM_152270.3
901 a=>g;1437 a=>g;1466 g=>t;1470 c=>t

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_152270 unedited
 GGTCAACATTTGTATACGACTCACTATAGGCGGCCGCGATTTCGGCACCAGCTTGAGAGGT
 CAGAGAGGGTCTTGCCTCCCGGCTGGGACTCCGGAGTTGCGTTTCTACCCGTGCTTCAG
 GGTCTAGCCAGCCGAATCCGCGTGGGCTGTAACGAGTGCCAGTTTTCAGCTGTGAGT
 TCAACATGGAGGCAAATCAGTGCCCTGGTTGTGGAACCATTTACCCAGACCTGGTCA
 TCAATGTAGGAGAAGTACTCTTGGAGAAGAAAACAGAAAAAGCTGCAGAAAATTCAGA
 GAGACCAAGAGAAGGAGAGAGTTATGCGGGCTGCATGTGCTTTATTAACTCAGGAGGAG
 GAGTGATTCGAATGGCCAAGAAGTTGAGCATCCCGTGGAGATGGGACTGGATTTAGAAC
 AGTCTTTGAGAGAGCTTATTTCAGTCTTCAGATCTGCAGGCTTTCTTTGAGACCAAGCAAC
 AAGGAAGTGTTTTACATTTTTGTTAAATCTTGGAGCAGTGGCCCTTTCCCTGAAGATC
 GCTCTGTCAAGCCCGCCTTTGCAGCCTCAGTTCTTATTATACCGTAGATCTGAGACCT
 CTGTGCGTTCCATGGACTCAAGAGAGGCATTCTGTTTCTGAAGACAAAAGGAAGCCAA
 AAATCTTGAAGAAGACCTTTTACANAATTCACAAGGTGTATACCAAGAGCTCCCTA
 ACTCGGATCCTGTGNACCCAACTCGATCCTGCTGACCTAATTTTCAAAAAGACTATC
 TTTGATATGNGTAAAATCCCTGCCTTTNCTGAGTCTCAGNTAGTAGAGTTTAAACAGTTC
 TCTACAAACACTTNCAGAATAATGTAAAAGGACAATTCAGNATACGTNCTGCATTTGCA
 ACACTGGNAGAGCTATCTTTTATTGGAGTGATGATAGAGTAGGGAAA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_152270 unedited
 NCCGGAATTACTAGGACCGCCGCGATTCTANGATCGATTTTTTTTTTTTTTTTTTTTTTTC
 AGTTAATGAGACACAACTCTCAACTTTTTATTTAAAACAGAAATGCAGTAGTAAGCTA
 AACCTTTTGCCATTCATAGGGAAACAAATATCAGTAATCCTCTTTGTTCTAAACAAAAT
 TCATAATTTTTATACATTTTATAATATTATATTGTTTCAAATGTTGTTAGTGGGCAAT
 AAATCATAAAGAGATACAACCAGTCGAAATTAGACTTTTAAAGAATTACTCTCAAAGAAA
 TTGCAACAACCTCAAAGTCCAGGGATCTTATAAGACTAATTTATTATTAACAACATTTAC
 AAAGATAGCTTTTTAATGCTGAGTTGTATCTGATTTAATGCAGTCAGAAAGAAAAAGAA
 ACATTTATCTCATTTTGTGATCTGTGAGATTTGCTTAAAGTTAGGAGAGCCTGCAATTT
 CAAGCCAGATAACTGGAATCCATGAATAAACACAGAAAGACAGGAGAAAGGCAAGGAA
 GTTCAAAAATCACAGTCTGGGGGAAATCAGTAGAGTAAGATTACCAATAAGTGAATAT
 TGGTCATATGATTTCTTAATTTCCATTAGTTATGCAAATTTTTACTGTTAATATTTAAA
 TTAAGTGTTTTAGAACGTTTTGTAGCGACTGAAAAGCACATAAAAATGCCTTAACATTGT
 TAATATCAGTGTTTTAGGTTGGACAATTTCTTACCTGGGTTCCCGGCTGCAATAAC
 ACACCCGCAAATATGGCGGCTGAACCCAGAATTTTTTCAAAGAACGGAGGCGGGAA
 ATCCGACACAAGTTCCAACAACCTCCGAGCAGCAAAGGTTTCAATGGCGACCCCCCCCCA
 CGGCCTGAGGGG

Restriction Sites:

NotI-NotI

ACCN:

NM_152270

Insert Size:

5000 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_152270.2](#), [NP_689483.2](#)

RefSeq Size: 4915 bp

RefSeq ORF: 2706 bp

Locus ID: 91607

UniProt ID: [Q7Z7L1](#)

Cytogenetics: 17q12

Domains: AAA_div

Gene Summary: Inhibitor of DNA replication that promotes cell death in response to DNA damage (PubMed:22927417, PubMed:26658330, PubMed:29395061). Acts as a guardian of the genome by killing cells with defective replication (PubMed:29395061). Persistently blocks stressed replication forks by opening chromatin across replication initiation sites at stressed replication forks, possibly leading to unwind DNA ahead of the MCM helicase and block fork progression, ultimately leading to cell death (PubMed:29395061). Acts independently of ATR (PubMed:29395061). Also acts as an interferon (IFN)-induced antiviral protein which acts as an inhibitor of retrovirus protein synthesis (PubMed:23000900). Specifically abrogates the production of retroviruses such as human immunodeficiency virus 1 (HIV-1) by acting as a specific inhibitor of the synthesis of retroviruses encoded proteins in a codon-usage-dependent manner (PubMed:23000900). Binds to tRNAs and exploits the unique viral codon bias towards A/T nucleotides (PubMed:23000900). The exact inhibition mechanism is unclear: may either sequester tRNAs, prevent their maturation via post-transcriptional processing or may accelerate their deacylation (PubMed:23000900). Does not inhibit reverse transcription, integration or production and nuclear export of viral RNA (PubMed:23000900). [UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (5) differs in the 5' UTR compared to variant 1. All variants (1-5) encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.