

Product datasheet for **SC317147**

SLFN11 (NM_001104589) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLFN11 (NM_001104589) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLFN11
Synonyms:	SLFN8/9
Vector:	<u>pCMV6 series</u>



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001104589, the custom clone sequence may differ by one or more nucleotides

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ATGGAGGCAAATCAGTGCCCCCTGGTTGTGGAACCATCTTACCCAGACCTGGTCATCAAT
GTAGGAGAAGTGACTCTTGGAGAAGAAAACAGAAAAAGCTGCAGAAAATTCAGAGAGAC
CAAGAGAAGGAGAGAGTTATGCGGGCTGCATGTGCTTTATTAACCTCAGGAGGAGGATG
ATTCTGAATGGCCAAGAAGGTTGAGCATCCCGTGGAGATGGGACTGGATTTAGAACAGTCT
TTGAGAGAGCTTATTCAGTCTTCAGATCTGCAGGCTTTCTTTGAGACCAAGCAACAAGGA
AGGTGTTTTTACATTTTTGTTAAATCTTGGAGCAGTGGCCCTTTCCCTGAAGATCGCTCT
GTCAAGCCCCGCCTTTGCAGCCTCAGTTCTTCATTATACCGTAGATCTGAGACCTCTGTG
CGTTCCATGGACTCAAGAGAGGCATTCTGTTTCTGAAGACCAAAAGGAAGCCAAAAATC
TTGGAAGAAGGACCTTTTACAAAATTCACAAGGGTGTATACCAAGAGCTCCCTAACTCG
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ACTGGAGGAGGCTATCTTTTATTGGAGTGGATGATAAGAGTAGGGAAGTCTGGGATGT
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GTGTAATCCAAGAAAGGCTGGAACATAAAAAGGAACTCCAGCAACTTTTATTTTTCAGTC
CCACCAGGATATTTGCGATATACTCCAGAGTCACTCTGGAGGGACCTGATCTCAGAGCAC
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AGTGATAGAAAATATCTGCCGAGCAGAGACCCGAAAACCTTCTAAGAGAAAACCTTTGAA
CACATTCAACACATCGTCATTGACGAAGCTCAGAATTTCCGTAAGTGAAGATGGGGACTGG
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GATAGGGGCTATTCTCAAAGGATGTTGCTGTGCTTGTGAGCACCAGCAAAAAGGAGTGGAG
CACTATAAGTATGAGCTCTTAAAGCAATGAGGAAGAAAAGGGTGGTGCAGCTCAGTGAT
GCATGTGATATGTTGGGTGATCACATTGTGTTGGACAGTGTTCGGCGATTCTCAGGCCTG
GAAAGGAGCATAGTGTGGGATCCATCAAGGACAGCTGACCCAGCTATCTTACCCAAT
GTTCTGATCTGTCTGGCTTCCAGGGCAAAACAACACCTGTATATTTTCCGTGGGGTGGC
CAT
    
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Restriction Sites: Please inquire
ACCN: NM_001104589

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:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_001104589.1, NP_001098059.1</u>
RefSeq Size:	5132 bp
RefSeq ORF:	2706 bp
Locus ID:	91607
UniProt ID:	<u>Q7Z7L1</u>
Cytogenetics:	17q12

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 (3) 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.