

Product datasheet for **RC226247**

SLFN11 (NM_001104587) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLFN11 (NM_001104587) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLFN11
Synonyms:	SLFN8/9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC226247 representing NM_001104587
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGGCAAATCAGTGCCTTGGTTGTGGAACCATCTTACCCAGACCTGGTCATCAATGTAGGAGAAG
 TGA CTCTTGAGAGAAGAAAACAGAAAAAGCTGCAGAAAATTCAGAGAGACCAAGAGAAGGAGAGATTAT
 GCGGGCTGCATGTGCTTTATTAACCTCAGGAGGAGGAGTGATTGCAATGGCCAAGAGGTTGAGCATCCC
 GTGGAGATGGGACTGGATTTAGAACAGTCTTTGAGAGAGCTTATTCAGTCTTCAGATCTGCAGGCTTTCT
 TTGAGACCAAGCAACAAGGAAGGTGTTTTACATTTTTGTTAAATCTTGGAGCAGTGGCCCTTCCCTGA
 AGATCGCTCTGTCAAGCCCCGCCTTTCAGCCTCAGTTCTTCATTATACCGTAGATCTGAGACCTCTGTG
 CGTTCCATGGACTCAAGAGAGGCATTCTGTTTCTGAAGACCAAAAGGAAGCCAAAAATCTTGAAGAAG
 GACCTTTTCAAAAATTCACAAGGGTGTATACCAAGAGCTCCCTAACTCGGATCTGCTGACCCAAACTC
 GGATCCTGCTGACCTAATTTTCCAAAAGACTATCTTGAATATGGTGAATCCTGCCTTTTCTGAGTCT
 CAGTTAGTAGAGTTTAAACAGTTCTCTACAAAACACTTCCAAGAATATGTAAAAAGGACAATTCAGAAT
 ACGTCCCTGCATTTGCAAACTGGAGGAGGCTATCTTTTTATTGGAGTGGATGATAAGAGTAGGGAAGT
 CCTGGGATGTGCAAAAAGAAAATGTTGACCTGACTCTTTGAGAAGGAAAAAGAACCAAGCCATATACAAA
 CTACCTTGTGTTCAATTTTGCCAAACCCACGCCCGATAACCTTCACACTCAAAATTTGGAATGTGTTAA
 AAAGGGGAGAGCTCTATGGCTATGCTTGCATGATCAGAGTAAATCCCTTCTGCTGTGCAGTGTCTCAGA
 AGCTCCCAATTCATGGATAGTGGAGGACAAGTACGCTGCAGCCTGACAACCGAGAAATGGTAGGCATG
 ATGACAGACACAGATCCAGATCTTACAGTTGCTGAAGATTTGAATGTCAGCTGAGTCTATCTAGTG
 GGCTCCCTTAGCAGACCAGTACTCCAAGAAAGCCCTGGAACATAAAAAGGAACTCCAGCAACTTTT
 ATTTTCAGTCCCACAGGATATTTGCGATATACTCCAGAGTCACTCTGGAGGGACCTGATCTCAGAGCAC
 AGAGGACTAGAGGAGTTAATAAATAAGCAAATGCAACCTTTCTTTCGGGGAATTTTGATCTTCTCTAGAA
 GTTGGGCTGTGGACCTGAACTTGCAGGAGAAGCCAGGAGTCATCTGTGATGCTCTGCTGATAGCACAGAA
 CAGCACCCCAATCTCTACACCTTCTCAGGGAGCAAGATGCAGAGGGCCAGGACTACTGCACTCGCACC
 GCCTTTACTTTGAAGCAGAAGCTAGTGAACATGGGGGGCTACACCGGGAAGGTGTGTGTCAGGGCCAAGG
 TCCTCTGCCTGAGTCTGAGAGCAGCGCAGAGGCCTTGGAGGCTGCAGTGTCTCCGATGGATTACCTGCTG
 GTCCTATAGCCTTGCAGGCACCCAGCACATGGAAGCCCTGCTGCAGTCCCTCGTATTGTCTTACTCGGC
 TTCAGGTCTCTTTGAGTGACCAGCTCGGCTGTGAGGTTTTAAATCTGCTCACAGCCAGCAGTATGAGA
 TATTCTCCAGAAGCCTCCGCAAGAACAGAGAGTTGTTTGTCCACGGCTTACCTGGCTCAGGGAAGACCAT
 CATGGCCATGAAGATCATGGAGAAGATCAGGAATGTGTTTCACTGTGAGGCACACAGAATTCCTCTACGTT
 TGTGAAAACAGCCTCTGAGGAACCTTATCAGTGATAGAAATATCTGCCGAGCAGAGACCCGAAAACTT
 TCCTAAGAGAAAACCTTTGAACACATTCAACACATCGTCATTGACGAAGCTCAGAAATTTCCGTAAGGA
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 TTTCTGGATTACTTTAGACCAGCCACTTGGATTGCAGTGGCCTCCCTCCTCTCTCAGACCAATATCCAA
 GAGAAGAGCTCACCAGAATAGTTCGCAATGCAGATCCAATAGCCAAGTACTTACAAAAAGAAATGCAAGT
 AATTAGAAGTAATCCTTCAATTAACATCCCACTGGGTGCCTCGAGGATTTTCTGAAGCCGAATGGTCC
 CAGGGTGTTCAGGGAACCTTACGAATTAAGAAATACTTGACTGTGGAGCAAATAATGACCTGTGTGGCAG
 ACACGTGCAGGCCTTCTTTGATAGGGCTATTCTCAAAGGATGTTGCTGTGCTTGTGACACCCGCAAA
 AGAAGTGGAGCACTATAAGTATGAGCTCTTGAAGCAATGAGGAAGAAAAGGGTGGTGCAGCTCAGTGT
 GCATGTGATATGTTGGGTGATCACATTGTGTTGGACAGTGTTCGGCGATTCTCAGGCCTGAAAAGGAGCA
 TAGTGTGTTGGATCCATCCAAGGACAGCTGACCCAGCTATCTTACCAATGTTCTGATCTGTCTGGCTTC
 CAGGGCAAAAACAACCTGTATATTTTTCCGTGGGGTGGCCAT

ACGGTACGGCGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC226247 representing NM_001104587
 Red=Cloning site Green=Tags(s)

MEANQCPLVVEPSYPLVINVGVEVTLGEENRKKLQKIQRDQEKERVMAACALLNSGGGVIRMAKKVEHP
 VEMGLDLEQSLRELIQSSDLQAFFETKQQGRCFYIFVKSWSGGPFPEDRSVKPRCLSLSSSLYRRSETSV
 RMSDSREAFCLKTKRKPILKEEGPFHKIHKGVYQELPNSDPADPNSDPADLIFQKDYLEYGEILPFPES
 QLVEFKQFSTKHFQEYVKRTIPEYVPAFANTGGGYLFIGVDDKSREVLGCAKENVDPDSLRRKIEQAIYK
 LPCVHFQCPQRPITFTLKIIVNLKRGELYGYACMIRVNPFCFAVSEAPNSWIVEDKYVCSLTTEKWGM
 MTDTDPDLLQLSEDFEQLSLSSGPPLSRPVYSKKGLEHKKELQQLLFSVPPGYLRYTPESLWRDLISEH
 RGLLEELINKQMPPFRGILIFSRSAVDLNLQEKPGVICDALLIAQNSTPILYTLREQDAEGQDYCTRT
 AFTLKQKLVNMGYTGKVCVRAKVLCLSPESAEALEAAVSPMDYPASYSLAGTQHMEALLQSLVIVLLG
 FRSLSDQLGCEVLNLLTAQQYEIFSRSLRKNREL FVHGLPGSGKTIMAMKIMEKIRNVFHEAHRILYV
 CENQPLRNFISDRNICRAETRTFLRENFEHIQHIVIDEAQNFRTEGDWYGKAKSITRRAKGGPILWI
 FLDYFQTSHLDCSGLPPLSDQYPREELTRIVRNADPIAKYLQKEMQVIRSNPSFNIPGTGLEVFPEAEWS
 QGVQGTLRICKYLTVEQIMTCVADTCRRFFDRGYSKPDVAVLVSTAKEVEHYKYELLKAMRKRKRVQLSD
 ACDMLGDHIVLDSVRRFSGLERSIVFGIHPRTADPAILPNVLICLASRAKQHLIYFPPWGGH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8103_f01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



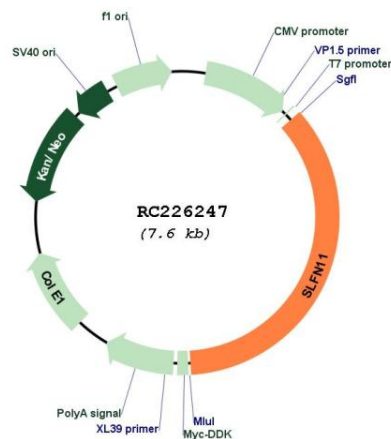
* The last codon before the Stop codon of the ORF

ACCN: NM_001104587

ORF Size:	2703 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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:	<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:	NM_001104587.2
RefSeq Size:	5292 bp
RefSeq ORF:	2706 bp
Locus ID:	91607
UniProt ID:	Q7Z7L1
Cytogenetics:	17q12
MW:	102.8 kDa

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]

Product images:


Circular map for RC226247