

## Product datasheet for **RC226248**

### SLFN11 (NM\_001104588) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SLFN11 (NM_001104588) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLFN11
Synonyms:	SLFN8/9
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RC226248 representing NM\_001104588  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGGCAAATCAGTGCCTCCGTTGTGGAACCATCTTACCCAGACCTGGTCATCAATGTAGGAGAAG  
 TGA CTCTTGAGAGAAGAAAACAGAAAAAGCTGCAGAAAATTAGAGAGACCAAGAGAAGGAGAGATTAT  
 GCGGGCTGCATGTGCTTTATTAACCTCAGGAGGAGGAGTGATTGCAATGGCCAAGAGGTTGAGCATCCC  
 GTGGAGATGGGACTGGATTTAGAACAGTCTTTGAGAGAGCTTATTCAGTCTTCAGATCTGCAGGCTTTCT  
 TTGAGACCAAGCAACAAGGAAGGTGTTTTACATTTTTGTTAAATCTTGGAGCAGTGGCCCTTCCCTGA  
 AGATCGCTCTGTCAAGCCCCGCCTTTCAGCCTCAGTTCTTCATTATACCGTAGATCTGAGACCTCTGTG  
 CGTTCCATGGACTCAAGAGAGGCATTCTGTTTCTGAAGACCAAAAGGAAGCCAAAAATCTTGAAGAAG  
 GACCTTTTCAAAAATTCACAAGGGTGTATACCAAGAGCTCCCTAACTCGGATCTGCTGACCCAAACTC  
 GGATCCTGCTGACCTAATTTTCCAAAAGACTATCTTGAATATGGTGAATCCTGCCTTTTCTGAGTCT  
 CAGTTAGTAGAGTTTAAACAGTTCTCTACAAAACACTTCCAAGAATATGTAAAAAGGACAATTCAGAAT  
 ACGTCCCTGCATTTGCAAACTGGAGGAGGCTATCTTTTTATTGGAGTGGATGATAAGAGTAGGGAAGT  
 CCTGGGATGTGCAAAAAGAAAATGTTGACCTGACTCTTTGAGAAGGAAAAAGAACCAAGCCATATACAAA  
 CTACCTTGTGTTCAATTTTGCAACCCCAACGCCCGATAACCTTCACACTCAAAATTTGGGATGTGTTAA  
 AAAGGGGAGAGCTCTATGGCTATGCTTGCATGATCAGAGTAAATCCCTTCTGCTGTGCAGTGTCTCAGA  
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 ATGACAGACACAGATCCAGATCTTCTACAGTTGTCTGAAGATTTGAATGTCAGCTGAGTCTATCTAGTG  
 GGCTCCCTTAGCAGACCAGTACTCCAAGAAAGCCCTGGAACATAAAAAGGAACTCCAGCAACTTTT  
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 CAGCACCCCAATCTCTACACCTTCTCAGGGAGCAGGATGCAGAGGGCCAGGACTACTGCACTCGCACT  
 GCCTTTACTTTGAAGCAGAAGCTAGTGAACATGGGGGCTACACCGGGAAGGTGTGTGTCAGGGCCAAGG  
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 GTCCTATAGCCTTGCAGGCACCCAGCACATGGAAGCCCTGCTGCAGTCCCTCGTATTGTCTTACTCGGC  
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 TATTCTCCAGAAGCCTCCGCAAGAACAGAGAGTGTGTTTGTCCACGGCTTACCTGGCTCAGGGAAGACCAT  
 CATGGCCATGAAGATCATGGAGAAGATCAGGAATGTGTTTCACTGTGAGGCACACAGAATTTCTCTACGTT  
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 TCCTAAGAGAAAACCTTTGAACACATTCAACACATCGTCATTGACGAAGCTCAGAAATTTCCGTAAGGA  
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 GAGAAGAGCTCACCAGAATAGTTCGCAATGCAGATCCAATAGCCAAGTACTTACAAAAAGAAATGCAAGT  
 AATTAGAAGTAATCCTTCAATTAACATCCCACTGGGTGCCTCGAGGATTTTCTGAAGCCGAATGGTCC  
 CAGGGTGTTCAGGGAACCTTACGAATTAAGAAATACTTGACTGTGGAGCAAATAATGACCTGTGTGGCAG  
 ACACGTGCAGGCCTTCTTTGATAGGGCTATTCTCAAAGGATGTTGCTGTGCTTGTGACACCCGCAAA  
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 TAGTGTGTTGGATCCATCCAAGGACAGCTGACCCAGCTATCTTACCAATGTTCTGATCTGTCTGGCTTC  
 CAGGGCAAAAACAACCTGTATATTTTTCCGTGGGGTGGCCAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC226248 representing NM\_001104588  
 Red=Cloning site Green=Tags(s)

MEANQCPLVVEPSYDPLVINVGCVTLGEENRKKLQKIQRDQEKERVMAACALLNSGGGVIRMAKKVEHP  
 VEMGLDLEQSLRELIQSSDLQAFFETKQQGRCFYIFVKSWSGPFPEDRSVKPRCLCSLSSSLYRRSETSV  
 RMSDSREAFCLKTKRKPILKEEGPFHKIHKGVYQELPNSDPADPNSDPADLIFQKDYLEYGEILPFPES  
 QLVEFKQFSTKHFQEYVKRTIPEYVPAFANTGGGYLFIGVDDKSREVLGCAKENVDPDSLRRKIEQAIYK  
 LPCVHFCQPQRPIFTFLKIVDVLKRGELVGYACMIRVNPFCFAVFSEAPNSWIVEDKYVCSLTTEKWVGM  
 MTDTDPDLLQLSEDFECQLSLSSGPPLSRPVYSKKGLEHKKELQQLLFSVPPGYLRYTPESLWRDLISEH  
 RGLEELINKQMPPFRGILIFSRSWAVDLNLQEKPGVICDALLIAQNSTPILYITILREQDAEQDYCTR  
 AFTLKQKLVNMGYTGKVCVRAKVLCLSPESAEALEAAVSPMDYPASYSLAGTQHMEALLQSLVIVLLG  
 FRSLSDQLGCEVLNLLTAQQYEIFSRSLRKNRELFVHGLPGSGKTIMAMKIMEKIRNVFHEAHRILYV  
 CENQPLRNFISDRNICRAETRTFLRENFEHIQHIVIDEAQNFRTEGDWYGKAKSITRRAKGGPILWI  
 FLDYFQTSHLDCSGLPPLSDQYPREELTRIVRNADPIAKYLQKEMQVIRSNPSFNIPGTGLEVFPEAEWS  
 QGVQGTLRICKYLTVEQIMTCVADTCRRFFDRGYSKPDVAVLVSTAKEVEHYKYELLKAMRKRKRVQLSD  
 ACDMLGDHIVLDSVRRFSGLERSIVFGIHPRTADPAILPNVLICLASRAKQHLIYFPPWGGH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

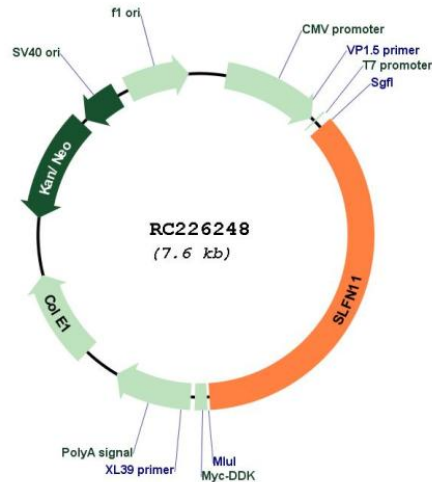
Restriction Sites:

SgfI-MluI

Cloning Scheme:



## Plasmid Map:



ACCN: NM\_001104588

ORF Size: 2703 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\\_001104588.1](#), [NP\\_001098058.1](#)

RefSeq ORF: 2706 bp

Locus ID: 91607

UniProt ID: [Q7Z7L1](#)

Cytogenetics: 17q12

MW: 102.7 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]