

## Product datasheet for **RG226247**

### **SLFN11 (NM\_001104587) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	SLFN11 (NM_001104587) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLFN11
Synonyms:	SLFN8/9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG226247 representing NM\_001104587  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGGCAAATCAGTGCCTTGGTTGTGGAACCATCTTACCCAGACCTGGTCATCAATGTAGGAGAAG  
 TGAAGTCTTGGAGAAGAAAACAGAAAAAGCTGCAGAAAATTCAGAGAGACCAAGAGAAGGAGAGATTAT  
 GCGGGCTGCATGTGCTTTATTAACCTCAGGAGGAGGAGTGATTGCAATGGCCAAGAGGTTGAGCATCCC  
 GTGGAGATGGGACTGGATTTAGAACAGTCTTTGAGAGAGCTTATTCAGTCTTCAGATCTGCAGGCTTTCT  
 TTGAGACCAAGCAACAAGGAAGGTGTTTTACATTTTTGTTAAATCTTGGAGCAGTGGCCCTTCCCTGA  
 AGATCGCTCTGTCAAGCCCCGCCTTTCAGCCTCAGTTCTTCATTATACCGTAGATCTGAGACCTCTGTG  
 CGTTCCATGGACTCAAGAGAGGCATTCTGTTTCTGAAGACCAAAAGGAAGCCAAAAATCTTGAAGAAG  
 GACCTTTTCAAAAATTCACAAGGGTGTATACCAAGAGCTCCCTAACTCGGATCTGCTGACCCAAACTC  
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 GCCTTTACTTTGAAGCAGAAGCTAGTGAACATGGGGGGCTACACCGGAAGGTGTGTGTCAGGGCCAAGG  
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 GCATGTGATATGTTGGGTGATCACATTGTGTTGGACAGTGTTCGGCGATTCTCAGGCCTGAAAAGGAGCA  
 TAGTGTGTTGGATCCATCCAAGGACAGCTGACCCAGCTATCTTACCAATGTTCTGATCTGTCTGGCTTC  
 CAGGGCAAAAACAACCTGTATATTTTTCCGTGGGGTGGCCAT

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – **GTTTAA**

**Protein Sequence:** >RG226247 representing NM\_001104587  
Red=Cloning site Green=Tags(s)

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MEANQCPLVVEPSYDDLVINVGVEVTLGEENRKKLQKIQRDQEKERVMAACALLNSGGGVIRMAKKVEHP
VEMGLDLEQSLRELIQSSDLQAFFETKQQGRCFYIFVKSWSGPFPEDRSVKPRCLSLSSSLYRRSETSV
RSMDSREAFCLKTKRKPKILEEGPFHKIHKGVYQELPNSDPADPNSDPADLIFQKDYLEYGEILFPFES
QLVEFKQFSTKHFQEYVKRTIPEYVPAFANTGGGYLFIGVDDKSREVLGCAKENVDPDSLRRKIEQAIYK
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MTDTPDLLQLSEDFECQLSLSSGPPLSRPVYSKKGLEHKKELQQLLFSVPPGYLRYTPESLWRDLISEH
RGLEELINKQMPPFRGILIFSRSAVDLNLQEKPGVICDALLIAQNSTPILYTLILREQDAEQDYCTRTR
AFTLKQKLVNMGYTGKVCVRAKVLCLSPESAEALEAAVSPMDYPASYSLAGTQHMEALLQSLVIVLLG
FRSLLSDQLGCEVLNLLTAQQYEIFSRSLRKNREL FVHGLPGSGKTIMAMKIMEKIRNVFHEAHRILYV
CENQPLRNFI SDRNICRAETRKTFLRENFEHIQHIVIDEAQNFRTEGDWYGKAKSITRRAKGGPILWI
FLDYFQTSHLDCSGLPPLSDQYPREELTRIVRNADPIAKYLQKEMQVIRSNPSFNIPGTGLEVFPEAEWS
QGVQGTLRICKYLTVEQIMTCVADTCRRFFDRGYSKPDVAVLVSTAKEVEHYKYELLKAMRKRKRVQLSD
ACDMLGDHIVLDSVRRFSGLERSIVFGIHPRTADPAILPNVLICLASRAKQHLIYFPWGGH
    
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TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

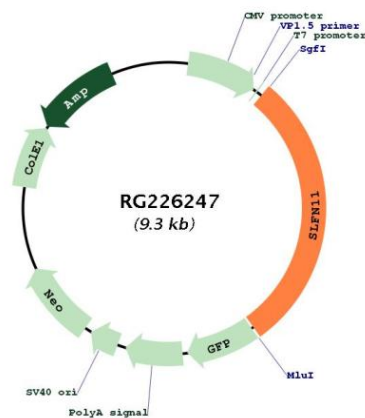
**Cloning Scheme:**



<b>ACCN:</b>	NM_001104587
<b>ORF Size:</b>	2703 bp
<b>OTI Disclaimer:</b>	<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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> 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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_001104587.2</a>
<b>RefSeq Size:</b>	5292 bp
<b>RefSeq ORF:</b>	2706 bp
<b>Locus ID:</b>	91607
<b>UniProt ID:</b>	<a href="#">Q7Z7L1</a>
<b>Cytogenetics:</b>	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]

**Product images:**

Circular map for RG226247