

Product datasheet for **RC208638**

SLFN11 (NM_152270) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLFN11 (NM_152270) 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:

>RC208638 representing NM_152270
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGGCAAATCAGTGCCTCCGTTGTGGAACCATCTTACCCAGACCTGGTCATCAATGTAGGAGAAG
 TGA CTCTTGAGAGAAGAAAACAGAAAAAGCTGCAGAAAATTCAGAGAGACCAAGAGAAGGAGAGAGTTAT
 GCGGGCTGCATGTGCTTTATTAACCTCAGGAGGAGGAGTGATTGCAATGGCCAAGAGGTTGAGCATCCC
 GTGGAGATGGGACTGGATTTAGAACAGTCTTTGAGAGAGCTTATTCAGTCTTCAGATCTGCAGGCTTTCT
 TTGAGACCAAGCAACAAGGAAGGTGTTTTACATTTTTGTTAAATCTTGAGCAGTGCCCTTTCCCTGA
 AGATCGCTCTGTCAAGCCCCGCTTTGCAGCCTCAGTTCTTCATTATACCGTAGATCTGAGACCTCTGTG
 CGTTCCATGGACTCAAGAGAGGCATTCTGTTTCTGAAGACCAAAAGGAAGCCAAAAATCTTGAAGAAG
 GACCTTTTCAAAAATTCACAAGGGTGTATACCAAGAGCTCCCTAACTCGGATCTGCTGACCCAAACTC
 GGATCCTGCTGACCTAATTTTCCAAAAGACTATCTTGAATATGGTGAATCCTGCCTTTTCTGAGTCT
 CAGTTAGTAGAGTTTAAACAGTTCTCTACAAAACACTTCCAAGAATATGTAAAAAGGACAATTCAGAAT
 ACGTCCCTGCATTTGCAAACACTGGAGGAGGCTATCTTTTTATTGGAGTGGATGATAAGAGTAGGGAAGT
 CCTGGGATGTGCAAAAAGAAAATGTTGACCTGACTCTTTGAGAAGGAAAAAGAACCAAGCCATATACAAA
 CTACCTTGTGTTCAATTTTGCCAAACCCCAACGCCCGATAACCTTCACACTCAAAATTTGTAATGTGTTAA
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 ATGACAGACACAGATCCAGATCTTCTACAGTTGCTGAAGATTTGAATGTCAGCTGAGTCTATCTAGTG
 GGCTCCCTTAGCAGACCAGTACTCCAAGAAAGCCCTGGAACATAAAAAGGAATCCAGCAACTTTT
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 CAGCACCCCAATCTCTACACCTTCTCAGGGAGCAAGATGCAGAGGGCCAGGACTACTGCACTCGCACC
 GCCTTTACTTTGAAGCAGAAGCTAGTGAACATGGGGGGCTACACCGGGAAGGTGTGTGTCAGGGCCAAGG
 TCCTCTGCCTGAGTCTGAGAGCAGCGCAGAGGCCTTGGAGGCTGCAGTGTCTCCGATGGATTACCTGCTG
 GTCCTATAGCCTTGCAGGCACCCAGCACATGGAAGCCCTGCTGCAGTCCCTCGTATTGTCTTACTCGGC
 TTCAGGTCTCTTTGAGTGACCAGCTCGGCTGTGAGGTTTTAAATCTGCTCACAGCCAGCAGTATGAGA
 TATTCTCCAGAAGCCTCCGCAAGAACAGAGAGTGTGTTTGTCCACGGCTTACCTGGCTCAGGGAAGACCAT
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 TGTGAAAACAGCCTCTGAGGAACCTTATCAGTGATAGAAATATCTGCCGAGCAGAGACCCGAAAACTT
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 GAGAAGAGCTCACCAGAATAGTTCGCAATGCAGATCCAATAGCCAAGTACTTACAAAAAGAAATGCAAGT
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 CAGGGCAAAAACAACCTGTATATTTTTCCGTGGGGTGGCCAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC208638 representing NM_152270
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MEANQCPLVVEPSYPDLVINVGCVTLGEENRKKLQKIQRDQEKERVMAACALLNSGGGVIRMAKKVEHP
 VEMGLDLEQSLRELIQSSDLQAFFETKQQGRCFYIFVKSWSGPFPEDRSVKPRLCSSSLYRRSETSV
 RSMDSREAFCLKTKRKPKILEEGPFHKIHKGVYQELPNSDPADPNSDPADLIFQKDYLEYGEILPFPE
 QLVEFKQFSTKHFQEYVKRTIPEYVPAFANTGGGYLFIGVDDKSREVLGCAKENVDPDSLRRKIEQAIYK
 LPCVHFCQPQRPIITFTLKIIVNVLKRGELVGYACMIRVNFCCAVFSEAPNSWIVEDKYVCSLTTEKWVGM
 MTDTDPDLLQLSEDFECQLSLSGGPPLSRPVYSKKGLEHKKELQQLLFSVPPGYLRYTPESLWRDLISEH
 RGLEELINKQMPPFRGILIFSRSWAVDLNLQEKPGVICDALLIAQNSTPILYTLREQDAEQDYCTRT
 AFTLKQKLVNMGYTGKVCVRKVLCLSPESAEALEAAVSPMDYPASYSLAGTQHMEALLQSLVIVLLG
 FRSLSDQLGCEVLNLLTAQQYEIFSRSLRKNRELFVHGLPGSGKTIMAMKIMEKIRNVFHEAHRILYV
 CENQPLRNFISDRNICRAETRTKFLRENFEHIQHIVIDEAQNFRTEGDWYGKAKSITRRAKGGPILWI
 FLDYFQTSHLDCSGLPPLSDQYPREELTRIVRNADPIAKYLQKEMQVIRSNPSFNIPGTGLEVFPEAEWS
 QGVQGTLRICKYLTVEQIMTCVADTCRRFFDRGYSKPDVAVLVSTAKEVEHYKYELLKAMRKRKRVQLSD
 ACDMLGDHIVLDSVRRFSGLERSIVFGIHPRTADPAILPNVLICLASRAKQHLIYFPPWGGH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

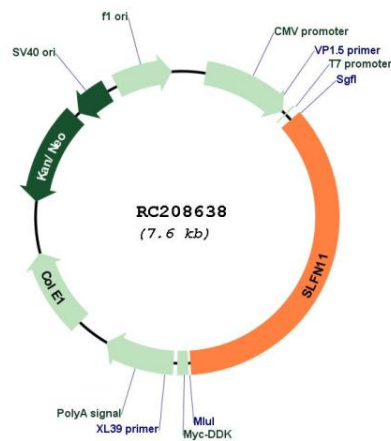


ACCN: NM_152270

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:	<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_152270.4
RefSeq Size:	5015 bp
RefSeq ORF:	2706 bp
Locus ID:	91607
UniProt ID:	Q7Z7L1
Cytogenetics:	17q12
Domains:	AAA_div
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 RC208638