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Product datasheet for SC317146

SLFN11 (NM_001104588) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLFN11 (NM_001104588) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLFN11
Synonyms:	SLFN8/9
Vector:	pCMV6 series

View online »

Fully Sequenced ORF:

>NCBI ORF sequence for NM_001104588, the custom clone sequence may differ by one or more nucleotides

ATGGAGGCAAATCAGTGCCCCCTGGTTGTGGAACCATCTTACCCAGACCTGGTCATCAAT
GTAGGAGAAGTGACTCTTGGAGAAGAAAACAGAAAAAAGCTGCAGAAAATTCAGAGAGAC
CAAGAGAAGGAGAGAGTTATGCGGGCTGCATGTGCTTTATTAAACTCAGGAGGAGGAGTG
ATTCGAATGGCCAAGAAGGTTGAGCATCCCGTGGAGATGGGACTGGATTTAGAACAGTCT
TTGAGAGAGCTTATTCAGTCTTCAGATCTGCAGGCTTTCTTTGAGACCAAGCAACAAGGA
AGGTGTTTTTACATTTTTGTTAAATCTTGGAGCAGTGGCCCTTTCCCTGAAGATCGCTCT
GTCAAGCCCCGCCTTTGCAGCCTCAGTTCTTCATTATACCGTAGATCTGAGACCTCTGTG
CGTTCCATGGACTCAAGAGAGGCATTCTGTTTCCTGAAGACCAAAAGGAAGCCAAAAATC
TTGGAAGAAGGACCTTTTCACAAAATTCACAAGGGTGTATACCAAGAGCTCCCTAACTCG
GATCCTGCTGACCCAAACTCGGATCCTGCTGACCTAATTTTCCAAAAAGACTATCTTGAA
TATGGTGAAATCCTGCCTTTTCCTGAGTCTCAGTTAGTAGAGTTTAAACAGTTCTCTACA
AAACACTTCCAAGAATATGTAAAAAGGACAATTCCAGAATACGTCCCTGCATTTGCAAAC
ACTGGAGGAGGCTATCTTTTTATTGGAGTGGATGATAAGAGTAGGGAAGTCCTGGGATGT
GCAAAAGAAAATGTTGACCCTGACTCTTTGAGAAGGAAAATAGAACAAGCCATATACAAA
CTACCTTGTGTTCATTTTTGCCAACCCCAACGCCCGATAACCTTCACACTCAAAATTGTG
AATGTGTTAAAAAGGGGAGAGCTCTATGGCTATGCTTGCATGATCAGAGTAAATCCCTTC
TGCTGTGCAGTGTTCTCAGAAGCTCCCAATTCATGGATAGTGGAGGACAAGTACGTCTGC
AGCCTGACAACCGAGAAATGGGTAGGCATGATGACAGACACAGATCCAGATCTTCTACAG
TTGTCTGAAGATTTTGAATGTCAGCTGAGTCTATCTAGTGGGCCTCCCCTTAGCAGACCA
GTGTACTCCAAGAAAGGCCTGGAACATAAAAAGGAACTCCAGCAACTTTTATTTTCAGTC
CCACCAGGATATTTGCGATATACTCCAGAGTCACTCTGGAGGGACCTGATCTCAGAGCAC
AGAGGACTAGAGGAGTTAATAAATAAGCAAATGCAACCTTTCTTTCGGGGAATTTTGATC
TTCTCTAGAAGTTGGGCTGTGGACCTGAACTTGCAGGAGAAGCCAGGAGTCATCTGTGAT
GCTCTGCTGATAGCACAGAACAGCACCCCCATTCTCTACACCATTCTCAGGGAGCAAGAT
GCAGAGGGCCAGGACTACTGCACTCGCACCGCCTTTACTTTGAAGCAGAAGCTAGTGAAC
ATGGGGGGCTACACCGGGAAGGTGTGTGTCAGGGCCAAGGTCCTCTGCCTGAGTCCTGAG
AGCAGCGCAGAGGCCTTGGAGGCTGCAGTGTCTCCGATGGATTACCCTGCGTCCTATAGC
CTTGCAGGCACCCAGCACATGGAAGCCCTGCTGCAGTCCCTCGTGATTGTCTTACTCGGC
TTCAGGTCTCTCTTGAGTGACCAGCTCGGCTGTGAGGTTTTAAATCTGCTCACAGCCCAG
CAGTATGAGATATTCTCCAGAAGCCTCCGCAAGAACAGAGAGTTGTTTGTCCACGGCTTA
CCTGGCTCAGGGAAGACCATCATGGCCATGAAGATCATGGAGAAGATCAGGAATGTGTTT
CACTGTGAGGCACACAGAATTCTCTACGTTTGTGAAAACCAGCCTCTGAGGAACTTTATC
AGTGATAGAAATATCTGCCGAGCAGAGACCCGGAAAACTTTCCTAAGAGAAAACTTTGAA
CACATTCAACACATCGTCATTGACGAAGCTCAGAATTTCCGTACTGAAGATGGGGACTGG
TATGGGAAGGCAAAAAGCATCACTCGGAGAGCAAAGGGTGGCCCAGGAATTCTCTGGATC
TTTCTGGATTACTTTCAGACCAGCCACTTGGATTGCAGTGGCCTCCCTCCTCTCTCAGAC
CAATATCCAAGAGAAGAGCTCACCAGAATAGTTCGCAATGCAGATCCAATAGCCAAGTAC
TTACAAAAAGAAATGCAAGTAATTAGAAGTAATCCTTCATTTAACATCCCCACTGGGTGC
CTCGAGGTATTTCCTGAAGCCGAATGGTCCCAGGGTGTTCAGGGAACCTTACGAATTAAG
AAATACTTGACTGTGGAGCAAATAATGACCTGTGTGGCAGACACGTGCAGGCGCTTCTTT
GATAGGGGCTATTCTCCAAAGGATGTTGCTGTGCTTGTCAGCACCGCAAAAGAAGTGGAG
CACTATAAGTATGAGCTCTTGAAAGCAATGAGGAAGAAAAGGGTGGTGCAGCTCAGTGAT
GCATGTGATATGTTGGGTGATCACATTGTGTTGGACAGTGTTCGGCGATTCTCAGGCCTG
GAAAGGAGCATAGTGTTTGGGATCCATCCAAGGACAGCTGACCCAGCTATCTTACCCAAT
GTTCTGATCTGTCTGGCTTCCAGGGCAAAACAACACCTGTATATTTTTCCGTGGGGTGGC
CAT

Restriction Sites: Please inquire

ACCN: NM_001104588

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:	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 Size:	5210 bp
RefSeq ORF:	2706 bp
Locus ID:	91607
UniProt ID:	Q7Z7L1
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 (2) 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.