

Product datasheet for **SC100013**

SLFN13 (NM_144682) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLFN13 (NM_144682) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLFN13
Synonyms:	hSLFN13; SLFN10
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC100013 sequence for NM_144682 edited (data generated by NextGen Sequencing)

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ATGGAGGCAAATCACTGCTCCCTGGGTGTGTATCCATCTTACCCAGACCTGGTCATCGAT
GTCGGAGAAGTGACTCTGGGAGAAGAAAACAGAAAAAGCTACAGAAAACCTCAGAGAGAC
CAAGAGAGGGCGAGAGTTATACGGGCCGCGTGTGCTTTATTAACCTCAGGAGGAGGATG
ATTCAGATGGAATGGCCAACAGGGATGAGCGTCCCACAGAGATGGGACTGGATTAGAA
GAATCCTTGAGAAAGCTTATTCAGTATCCATATTTGCAGGCTTTCTTTGAGACTAAGCAA
CACGGAAGGTGTTTTATATTTTTGTTAAATCTTGGAGTGGTGATCCTTTCCTTAAAGAT
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TCTGTGCTTCACATGAATTCAAGACAGGCATTGATTTCTGAAGACCAAGGAAAGACAG
TCCAAATATAATCTGATTAATGAAGGTCTCCACCTAGTAAAATTATGAAAGCTGTATAC
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Clone variation with respect to NM_144682.5
 1466 g=>k;1470 c=>y;1954 g=>a;1974 a=>c;2109 c=>t

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_144682 unedited
 TTACCCCCGCCGTTGNCGCAAAGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGC
 AGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGCCGCG
 AATTCGGCACGAGGGCGGAGTGTCTGGAGCTTGACGCGCTGGAGCTTGAGAGGTCTTTC
 AGGACTGATTTTTGGTGAAGAAGACAGCAGGCGGTGGGCATTCCTGTGCTGGTGGGAAG
 TCTGGTTACATTAAGAAAGGAATTCTAGCAAAGTTATTCTGTAATACAACAGAATCAGT
 TGCTTTTTGTTAAATATATTGGTGAAGTCAACATGGAGGCAAATCACTGCTCCCTGGGT
 GTGTATCCATCTTACCCAGACCTGGTCATCGATGTCGGAGAAGTGACTCTGGGAGAAGAA
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 CCATATTTGCAGGCTTTCTTTGAGACTAAGCAACACGGAAGGTGTTTTTATTTTTGTT
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 GCATTCGATTTCTGAAGACCAAGGAAAGACAGTCCANNATATATCTGATTAATGAAGGG
 TCTNCACCTAGTAAAATTATGAAAGCTGTATACCAGAACATATCTGAGTCAAATCCTGCA
 TATGAAGTTTTTCCAACCTGACACTATTGATATGGTGAATCCTATCTTTTCTGG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_144682 unedited
 NAGTTTTAAACCTTTTTTTTTTTGGCTGAACCAATTTAAATTTTCTCACANTCTGGGGG
 CTGGAAGTCGAAGACTAGGTGCCAGCAGGGTGGGGGGGGTTCATTGTGAGGCTTCTCCT
 CTTGGCTTGTAAAGTGGCTGCCATCTCTGTGTGCTCCCATGCCCTCTTGTTTGTGTGCA
 CAGGGAGGAAGGGAACAAGCTCTCTGGGTCTCTCCCTATAAGGACACCAAGTCTTAGCAG
 ATCAGATTCTCCACTGTGACTTCGTGTAACCTTAATTACTTCTTAGCAGCCCCAGCTCC
 ACAGTGAAAGTTGGGGCTTCAACATGGGAATTTAGGGGTGAGGATGGGACACAAACATTC
 AGTCCATAACAATGGCCACCAACTATGAAAGCAAATAGAAAAAAAATCACAGTTCAA
 GAATGACATAAACTTAAGTAGGTATGCTATAGAGTAATGCATACAGCTACGCTGAGATG
 TTACAATGTAACAACATAAACTCACTGCATTTTTTTCTTCTTCTTCTTTTTGAGAC
 AGTCTCACTCTGTTGCCANGCTGGAGTACAGTGACATGATCTCAGCTCACTGCAACCTC
 TGCTCCAGGATTCAAGTATTCTCATGCTTTCAGCTCCAAGTAGCTGGGATACAGGCA
 GCACCACCATGCCCTGCTAATTTTTGTATTTTATAAAGAATAGGGGGTCTCCCATGTGG
 GCCAAGCTGGTCTTGAACCTCTGACCCTAGGTGATCCACCTGCCTGACCCTCCCCAAAAG
 CTGGGATTACAGGTGTGGACCCTGCCCTGCCACGCTCATGGATTTAAAAGAAATC
 TTT

Restriction Sites:

NotI-NotI

ACCN:

NM_144682

Insert Size:

4700 bp

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).

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_144682.3](#), [NP_653283.3](#)

RefSeq Size: 8432 bp

RefSeq ORF: 2694 bp

Locus ID: 146857

UniProt ID: [Q68D06](#)

Cytogenetics: 17q12

Gene Summary: Endoribonuclease that cleaves tRNAs and rRNAs (PubMed:29563550). Cleaves tRNAs 11 nucleotides from the 3'-terminus at the acceptor stem (PubMed:29563550). Does not act on tRNA(Sec) (PubMed:29563550). Able to restrict HIV-1 virus replication; ability to inhibit HIV-1 replication is dependent on endoribonuclease activity (PubMed:29563550).[UniProtKB/Swiss-Prot Function]