OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC227146

FAM178A (SLF2) (NM_001136123) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FAM178A (SLF2) (NM_001136123) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FAM178A
Synonyms:	C10orf6; FAM178A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC227146 representing NM_001136123
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACAAGGCGCTGCATGCCCGCTAGGCCAGGTTTCCCCTCATCCCCAGCCCCGGGGTCGTCGCCCCCGC
GCTGCCATCTGAGACCCGGTAGTACCGCCCATGCTGCAGCGGGAAAGAGAACAGAGAGTCCTGGGGACAG
GAAGCAGTCAATTATAGATTTCTTCAAACCAGCTTCAAAACAAGACAGACACATGTTGGATTCACCACAA
AAATCAAACATCAAATATGGAGGAAGTAGATTGTCTATCACTGGGACAGAGCAGTTTGAAAGGAAACTAT
CCTCACCAAAAGAATCTAAACCCAAAAGGGTGCCACCAGAAAAGAGCCCTATTATAGAAGCTTTCATGAA
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GCTAAAAATTGTGCTCTTCCAGTTTCTAAAAAAGATAAAGAGCGTTCCTCATCTAAAGAATGTTCTGGGC
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ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC227146 representing NM_001136123
Red=Cloning site Green=Tags(s)

MTRRCMPARPGFPSSPAPGSSPPRCHLRPGSTAHAAAGKRTESPGDRKQSIIDFFKPASKQDRHMLDSPQ
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AVEKLILKSGKTDQIFLTTQGFLTSAYHYVQCPVPVLKWLFRMMSVHTDCIVSVQILSTLMEITIRNDTF
SDSPVWPWIPSLSDVAAVFFNMGIDFRSLFPLENLQPDFNEDYLVSETQTTSRGKESEDSSYKPIFSTLP
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MKPSDLLKKMVLKKKAEQPDGIIDDSLHLELEKQAYYLTYILLHLVGEVSCSHSFSSGQRKHFVLLCGAL
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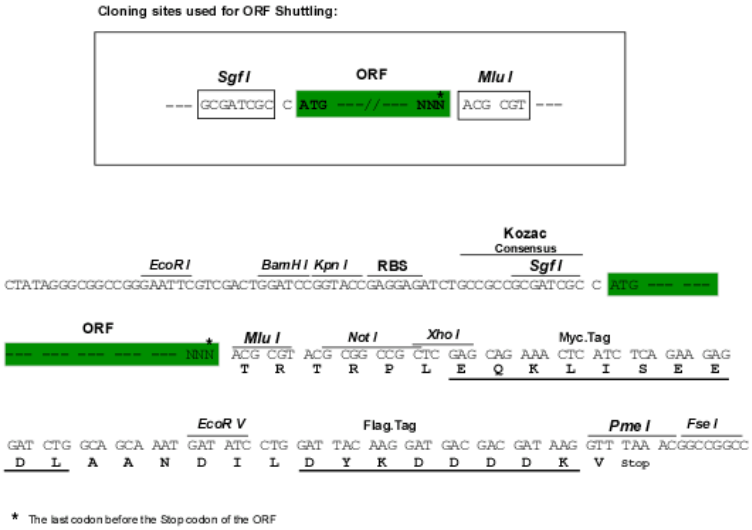
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8032_c09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001136123

ORF Size: 3558 bp

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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_001136123.2
RefSeq ORF:	3561 bp
Locus ID:	55719
UniProt ID:	Q8IX21
Cytogenetics:	10q24.31
MW:	133.2 kDa
Gene Summary:	Plays a role in the DNA damage response (DDR) pathway by regulating postreplication repair of UV-damaged DNA and genomic stability maintenance (PubMed:25931565). The SLF1-SLF2 complex acts to link RAD18 with the SMC5-SMC6 complex at replication-coupled interstrand cross-links (ICL) and DNA double-strand breaks (DSBs) sites on chromatin during DNA repair in response to stalled replication forks (PubMed:25931565). Promotes the recruitment of the SMC5-SMC6 complex to DNA lesions (PubMed:25931565).[UniProtKB/Swiss-Prot Function]

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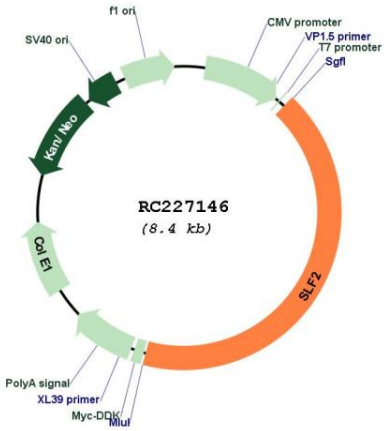
Product images:



Circular map for RC227146

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