

## Product datasheet for **SC330176**

### **FAM178A (SLF2) (NM\_001243770) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	FAM178A (SLF2) (NM_001243770) Human Untagged Clone
Tag:	Tag Free
Symbol:	FAM178A
Synonyms:	C10orf6; FAM178A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001243770
Insert Size:	192 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:	<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>
RefSeq:	<a href="#">NM_001243770.1</a>
RefSeq Size:	1343 bp
RefSeq ORF:	192 bp



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Locus ID: 55719

UniProt ID: [Q8IX21](#)

Cytogenetics: 10q24.31

MW: 6.7 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] Transcript Variant: This variant (3) is unspliced, lacks a large portion of the coding region and differs in the 3' UTR, compared to variant 1. The encoded isoform (3) is significantly shorter and has a distinct C-terminus, compared to isoform 1.