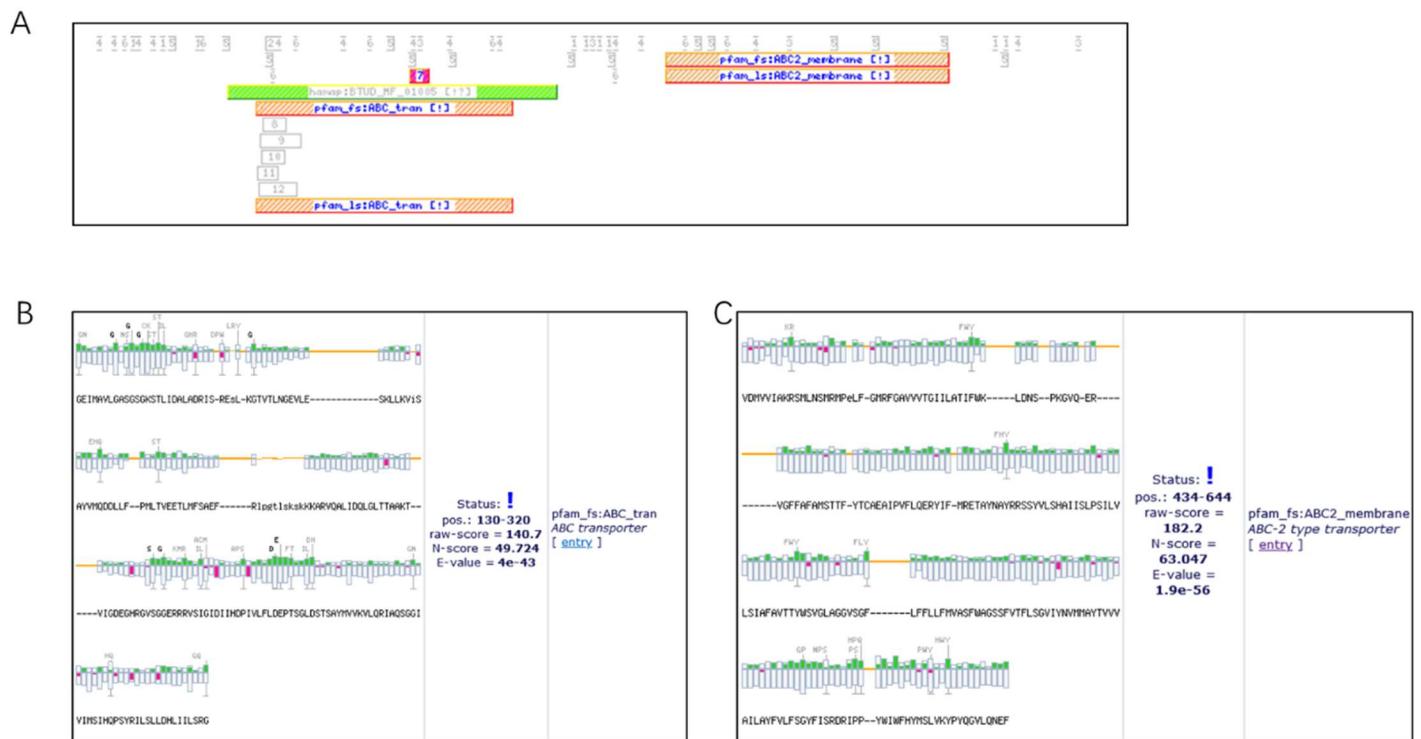


**Figure S1.** Yeast one hybrid screen for *N*-interacting proteins from tobacco cDNA library. (A) PCR amplification of cDNA insertions from selected yeast clones. DNA bands marked by red star to their right were gel purified and sequenced. DNA ladders were marked on the right. Red stars marked the DNA bands purified for sequencing analysis. (B) Annotation of amplified insertion sequences. (C) Point-to-point Y1H test between NtaSF4Na and each bait vector. Medium composition L (SD/-Ura -Leu) and R (SD/-Ura -Leu/ABA<sup>400 ng/mL</sup>) were indicated at the bottom. Bait vector IDs were indicated to the left and prey vectors are indicated on top.



**Figure S2.** Motif scan results of NtaSF4NL<sub>a</sub> N-terminal region. (A) The distribution of the detected motifs in the N-terminal 770 amino acids of NtaSF4NL<sub>a</sub>. (B) The details of the ABC transporter domain. (C) The details of the ABC-2 type transporter domain.

**Table S1.** Oligonucleotides used in this work.

Primer ID	Sequence	Experiment	Target	Description	vector name
ZQLP1136	TTCGAGCTCTCGAG-				
	GATCTTATTCTAATTATATGAC		N promoter frag-		
ZQLP1137	TGCCTCGAGGGAGTTCCAG-		ment1(NP1)		
	CATAATGTACTG				
ZQLP1134	TTCGAGCTCGTCAACGTTT-				
	GTCAAGTCATTG		N promoter frag-		
ZQLP1135	TGCCTCGAGGCCAGAT-		ment2(NP2)		
	TTACAAGTGCTCATTCA				
ZQLP1132	TTCGAGCTCGGATCTT-				
	GAACAATGTGTTCG		N promoter frag-		
ZQLP1133	TGCCTCGAGGCCTAGAAC-		ment3(NP3)		
	CTTG				
ZQLP1130	TTCGAGCTCGGCTTGCATCTA-				
	TATCCACT		N promoter frag-		
ZQLP1131	TGCCTCGAGGCCTTATT-		ment4(NP4)		
	GATCGCTCTCA				
ZQLP1128	TTCGAGCTCCAGGTATTAGAAAGGTG				
	GCG		N promoter frag-		
ZQLP1129	TGCCTCGAGATTGGTCGCTA-		ment5(NP5)		
	TATTGGTGGT				
ZQLP1126	TTCGAGCTCTATACGACCGAACGTT-				
	GGTC		N promoter frag-		
ZQLP1127	TGCCTCGAGTT-		ment6(NP6)		
	GGAGCCAGGGATTAGTG				various N pro-
ZQLP1124	TTCGAGCTCTACACACGTAACAC-				moter fragment
	GCTGC				for Y1H
ZQLP1125	TGCCTCGAGGCGCAGATA-	PCR from	N promoter frag-		
	GAAAGTGACAAC	SPDK450 vector	ment7(NP7)		pABAi
ZQLP1122	TTCGAGCTCAATTGGCAAGAA-				
	TAATCAATT		N promoter frag-		
ZQLP1123	TGCCTCGAGTCGCCCTTCTCGTAA-		ment8(NP8)		
	TAATGC				
ZQLP1120	TTCGAGCTCCTGGAGTAAACATTAA-				
	GATGAAGC		N promoter frag-		
ZQLP1121	TGCCTCGAGGGCATCACTGGTGCG-		ment9(NP9)		
	TATT				
ZQLP1118	TTCGAGCTCGCATACACTG-				
	CATTATGCCTAG		N promoter frag-		
ZQLP1119	TGCCTCGAGGGTCTCCATT-		ment10(NP10)		
	GATTGAATTCTT				
ZQLP1116	TTCGAGCTCACATGTGATCATTCAAC				
	TTTGTG		N promoter frag-		
ZQLP1117	TGCCTCGAGGGACTCAAC-		ment11(NP11)		
	GTAAATTCTCTGAA				
ZQLP1114	TTCGAGCTCCAGAAACAAAGGTACA				
	ATAGCTTG		N intronIII fragment1		
ZQLP1115	TGCCTCGAGCATTTGCATTATT-		(NI1)		
	GACAAATT				
ZQLP1112	TTCGAGCTCTGGCTA-				
	GAATTATGATACATGTCT		N intronIII fragment2		
ZQLP1113	TGCCTCGAGTTCTGTAAAGAAGAA-		(NI2)		various N intron
	TATTGACCG				fragment for Y1H

ZQLP1110	TTCGAGCTTTCATTGTT- GTACTGAATGC	N intronIII fragment3 (NI3)	
ZQLP1111	TGCCCTGAGGTGAGTTA- GAAAACCTCCCGTAGAG		
ZQLP1108	TTCGAGCTCTCAGTCCAATAA- GAATTCAATT	N intronIII fragment4 (NI4)	
ZQLP1109	TGCCTCGAGTAC- GAGGGCCAACACATTAT		
ZQLP1106	TTCGAGCTCGACGAACGACATTAA- GAGCC	N intronIII fragment5 (NI5)	
ZQLP1107	TGCCTCGAGCTGTTAGAACACAGA- CAGAATGAG		
ZQLP1104	TTCGAGCTCTGATGTACAT- ATCAACAACGAGTT	N terminator framgent1(NT1)	
ZQLP1105	TGCCTCGAGGGTG- CAATCGGGCTAACTAC		
ZQLP1102	TTCGAGCTCGCCTT- GCTGACAAGTAACC	N terminator framgent2(NT2)	
ZQLP1103	TGCCTCGA- GATGGATCTCTTAATGGTGCG	various N termin- ator fragment for Y1H	
ZQLP1100	TTCGAGCTCTTACTGTTGGGCTAAAC- TACCC	N terminator framgent3(NT3)	
ZQLP1101	TGCCTCGAGAACGCTCTG- CAGGTCGAGT		
ZQLP1749	gcttagcccgaggtcATGCCCGG- TATGATGATAG	Nta49739	tobacco SR4Na gene for Y1H as- say
ZQLP1750	attttaggaaagag- gAGGTGACTCGCTGCCCT		pGADT7LIC2 .0
ZQLP1775	gattacggcgaggtcATGCCCGG- TATGATGATAG	Nta49739	tobacco SR4Na gene for expres- sion
ZQLP1777	gAGGTGACTCGCTGCCCTTGGA- GAAGC		
ZQLP1775	gattacggcgaggtcATGCCCGG- TATGATGATAG	Nta29553	tobacco SR4Nb gene for expres- sion
ZQLP1776	gAGGTGACTCGCTGCCCTTGGA- GAACC		
ZQLP1695	gattacggcgaggtcATGCCCGG- TATGATGACA	Solyc05g054920.5	tomato SR4N gene for expres- sion
ZQLP1696	atcatagggaaagaggGGGTGACTCAC- TGCCCCTT	RT-PCR	
ZQLP1727	gattacggcgaggtcATGCCTCGC- TATGATGATCG	AT2G37340	Arabidopsis SR4Na gene for expression
ZQLP1728	atcatagggaaagaggAGGAGACTCAC- TTCCTCTAGGG		pH7LIC8.1
ZQLP1727	gattacggcgaggtcATGGCAGCGATTAC- GCAGA		
ZQLP1729	atcatagggaaagaggAGGTGACTCAC- TGCCTTTAGG	AT3G53500	Arabidopsis SR4Nb gene for expression
ZQLP1769	gattacggcgaggtcATGCCCGC- TATGATGATCGT		
ZQLP1770	atcatagggaaagaggGGCTTCAGGA- GACTCGCTCG	LOC_Os05g02880	Rice SR4Na gene for expression
ZQLP1771	gattacggcgaggtcATGCCTCGC- TATGATGATCAT		
ZQLP1772	atcatagggaaagaggAGCTTCAGGG- GACTCGCTTG	LOC_Os03g17710	Rice SR4Nb gene for expression

ZQLP1643	gaggagaagagcccGTAC- CTCGTGGTCCAGGTGG	Nbe58614/Nbe62091	<i>N. benthamiana</i>	TRV2-GFP
ZQLP1644	cgacgacaagaccTCCAATTCTGGGGC- TATT	VIGS experiment		
ZH1010	ACTATCTATTGATGATGAAGA- TACCC	colony PCR	tobacco cDNA library	Yeast one hybrid screen
ZH1011	ACGATGTATAAATGAAAGAAATT- GAGA			pGADT7-rec

**Data S1.** Sequences of Vectors used in this study.

>pH7LIC8.1-Nta49739 1..867 35S promoter;881..1828 Nta49739(NtaSF4Na) coding sequences;1841..1930 3xHA tag sequence;1944..2169 35S terminator

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GATCAGAAGTACTATTCCAGTATGGACGATTCAAGGCTTGCTTCACAAACCAAGGCAAGTAATAGAGATTGGAGTCTCTA  
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CTAACAGAACTCGCCGTAAAGACTGGCGAACAGITCATAACAGAGTCTCTTACGACTCAATGACAAGAAAATCTCGT  
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GACCAAAGGGCAATTGAGACTTTCAACAAAGGGTAATATCCGAAACCTCCCGATTCCATTGCCAGCTATCTGT  
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CAGAGGTCTCCCTCAGGTACAGGTGTTAATTGGACTTGATGCCATTGGCTCGAGATTGTAAGGCTGGGA  
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GAACGCAGAAATTGAGTCTTATGAAAGAAAATGCCGAGTCAGCAATAGCCCCATCCATAGGGACAATGGAAGCC  
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TCACCTCCTTCCCTATATGCGCTTATCCTATGATGTGCCAGATTGATGCTATGATGTTCTGATTATGCATA  
TCCATATGATGTTCCAGATTGCTTAATGATATCCCGGCCATGCTAGACTCCG-  
CAAAAATCACCAAGTCTCTACAAATCTATCTCTTATTTCTCCAGAATAATGTCAGACTTCCCAGATAAGGG  
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>pH7LIC8.1-Nta29553 1..867 35S promoter;881..1786 Nta29553 (NtaSF4Nb) coding sequences; 1799..1888 3xHA tag sequence;  
1902..2127 35S terminator

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TCCATATGATGTTCTGATTATGCATATCCATATGATGTTCCAGATTGCTTAATGATATCCCGGCCATGCTAGAGTCC

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1866..2091 35S terminator  
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1848..2073 35S terminator  
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**Data S2.** SR family protein sequences from Tomato, tobacco, Arabidopsis, and rice.

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