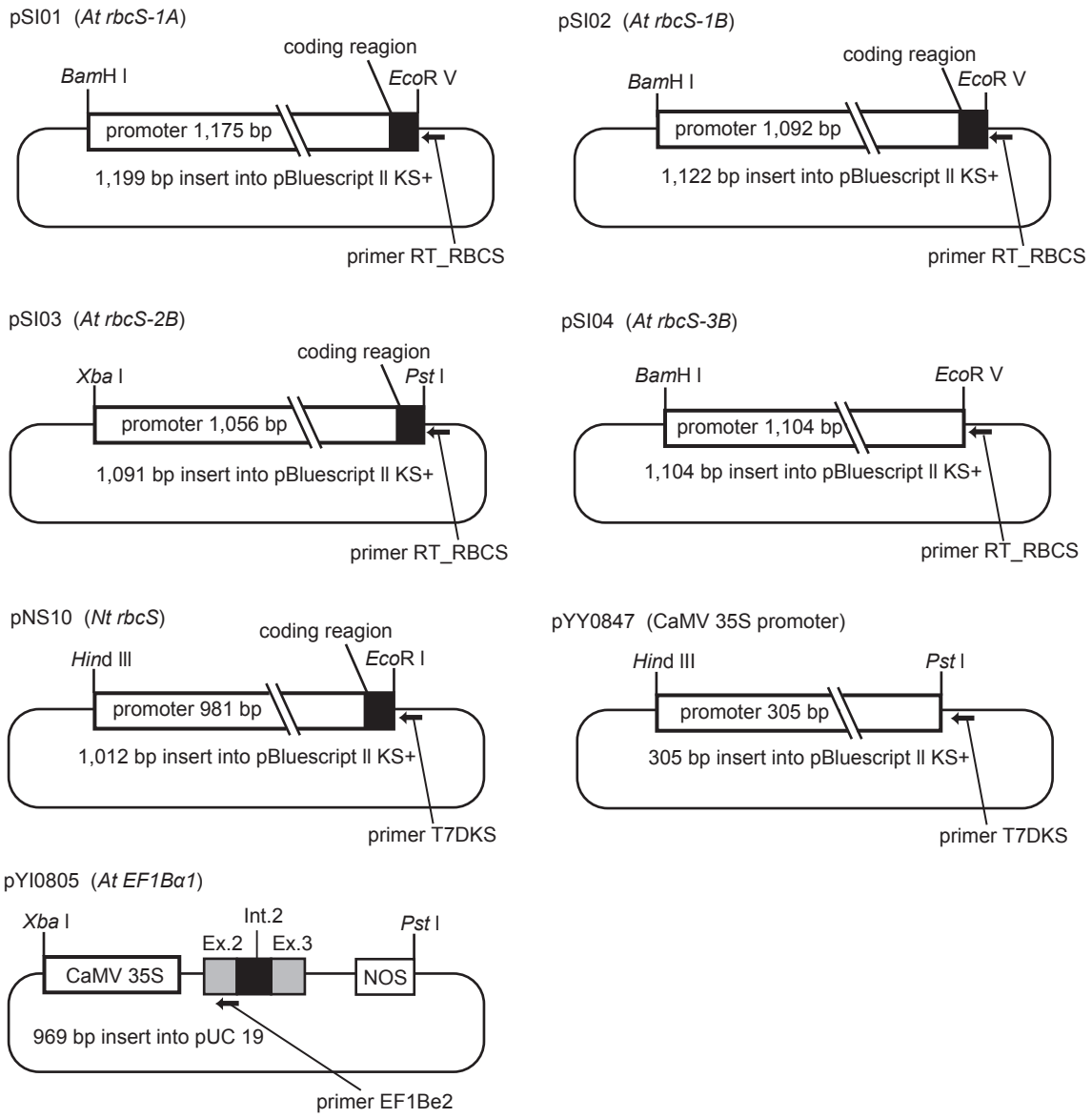
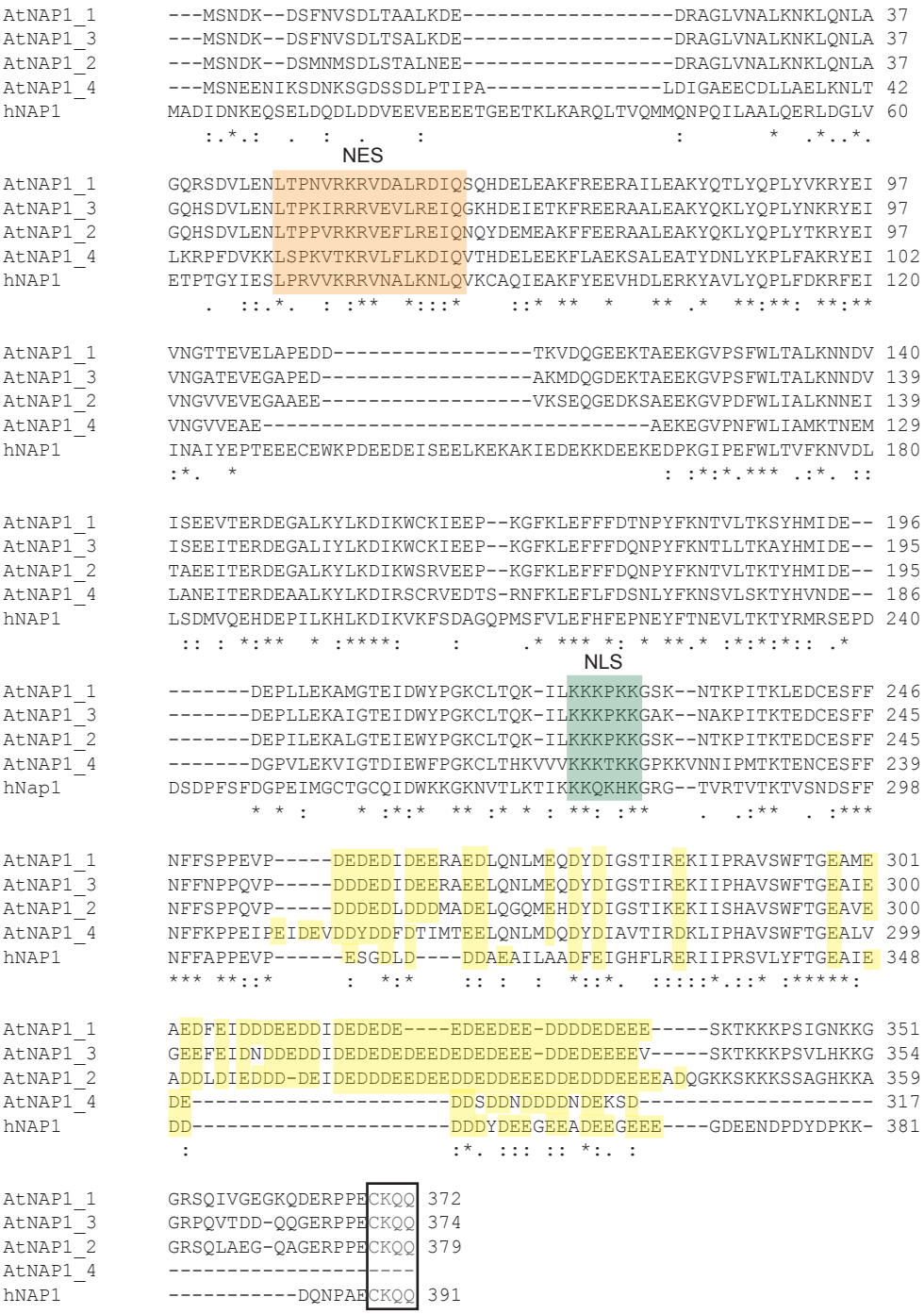


Supplemental Figure S1. Schematic representation of the plasmids used in this study. pSI01, pSI02, pSI03 and pSI04 include Arabidopsis *rbcS-1A, rbcS-1B, rbcS-2B* and *rbcS-3B* gene promoter, respectively. pNS10 include promoter from tobacco *rbcS* (*Ntss23*) gene. pYY0847 and pYI0805 include CaMV 35S promoter alone and CaMV 35S promoter fusing subset of coding region of *At EF1Bα1*. The other plasmids have been pablished in elesewhere (Stange & Beier, 1992; Fan et al., 1995; Yukawa et al., 1997; Yukawa et al., 2001; Yukawa et al., 2004; Yukawa et al., 2005; Yukawa et al., 2013).



Supplemental Figure S2. Alignment of Arabidopsis and human NAP1 amino acid sequences. The amino acid sequences of Arabidopsis NAP1;1, 1;2, 1;3 and 1;4, and human NAP1 are aligned by ClustalW. Amino acids region composing of the NES (nuclear export signal) and NLS (nuclear localization signal) are shown in orange and green, respectively. C-terminal acidic regions were shown as yellow. And C-terminal CKQQ motifs as potential PFT (protein farnesyl transferase) recognitin motif are boxed.

Supplemental Figure S3. Alignment of Arabidopsis and human ISWI amino acid sequences. The amino acid sequences of Arabidopsis ISWI (CHR 11 and CHR17) and human ISWI are aligned by ClustalW. Amino acids region composing of the DEXDc (DEAD-like helicases superfamily), HELICc (Helicase superfamily c-terminal domain), HAND (HAND domain), SANT (SWI3, ADA2, N-CoR and TFIIIB) and SLIDE (SLIDE domain) are shown in red, green, blue and purple, respectively.

Table S1. Clone list

plasmid	gene	origin	region	vector	PE primer	reference
pSI01	*rbcS-1A*	Arabidopsis	-1149 to +50	pBS II	RT_RBCS	–
pSI02	*rbcS-1B*	Arabidopsis	-1063 to +59	pBS II	RT_RBCS	–
pSI03	*rbcS-2B*	Arabidopsis	-1006 to +86	pBS II	RT_RBCS	–
pSI04	*rbcS-3B*	Arabidopsis	-1064 to +40	pBS II	RT_RBCS	–
pAtU2.2	U2 snRNA gene	Arabidopsis	-381 to +10	pBS II	T7DKS	Yukawa et al. (2013)
pAtU3CP	U3 snoRNA gene	Arabidopsis	-558 to +17	pBS II	T7DKS	Yukawa et al. (2013)
pBAU6	U6 snRNA gene	Arabidopsis	-449 to +28	pBS II	T7DKS	Fan et al. (1995) Yukawa et al. (1997) Yukawa et al. (2004)
pAt7SL	7SL RNA gene	Arabidopsis	-319 to +14	pBS II	T7DKS	Yukawa et al. (2005)
pYI0805	EF1Bα-1 (Int2)	Arabidopsis	-303 to +2	pUC19	T7DKS	-
pGNPS	β-1,3-glucanase gene	tobacco	-1470 to +23	pBS II	T7DKS	Fan et al. (1995) Yukawa et al. (1997) Yukawa et al. (2004)
pNS10	*rbcS*	tobacco	-981 to +31	pBS II	T7DKS	–
pNtYI	$tRNA^{Tyr}$	rustica tobacco	-140 to +270	pUC19	PTYR	Stange & Beier. (1992) Yukawa et al. (2001) Yukawa et al. (2004) Yukawa et al. (2005)
pRBC-1657	*rbcS*	tomato	-1657 to +44	pBS II	T7DKS	Fan et al. (1995)
pYY0847	35S promoter	CaMV	-303 to +2	pBS II	T7DKS	–

pBS II : pBluescript II

Table S2. Primer list

primer name	primer sequence (5' to 3')	usage
RT_RBCS	**gaggtcgacggtatcgataagcttgatatc** (30 mer)	Primer extension (RT)
EF1Be2	**gctagcattgggaaaaccatcacctg** (26 mer)	Primer extension (RT)
T7DKS	**gggcgaattggagctccaccgcggtggcggccgctctaga** (40 mer)	Primer extension (RT)
PTYR	**tccgacctaccggattcgaaccagtgacc** (29 mer)	Primer extension (RT)