Supplementary Material

Supplementary Figures and Tables

Supplementary Figures

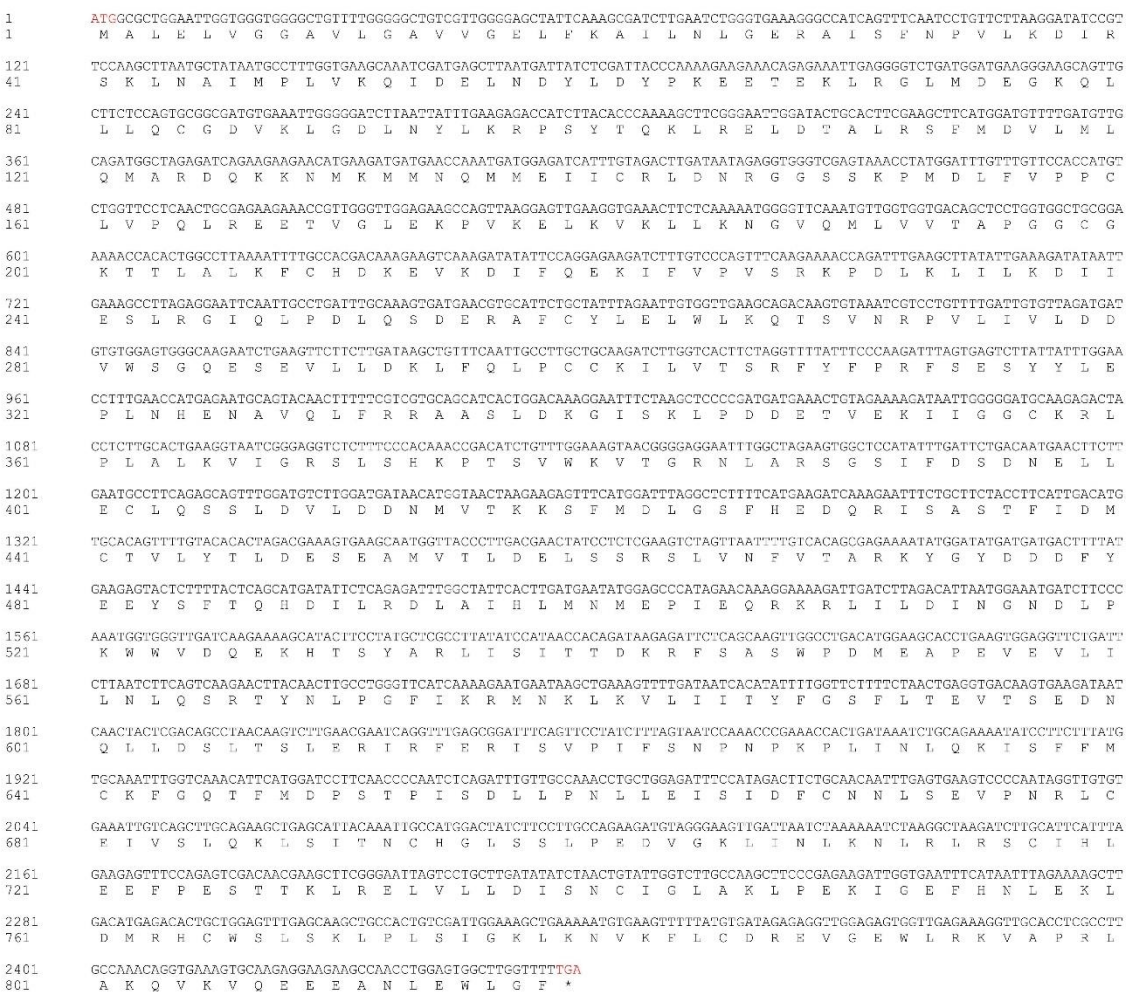

Figure S1. Nucleotide and deduced amino acid sequences of cucumber *CsRSF1* CDS encoding a protein. The deduced amino acid sequences are given below the nucleotide sequences. The transcriptional start site is shown in red and the termination codon is marked by an asterisk (*).

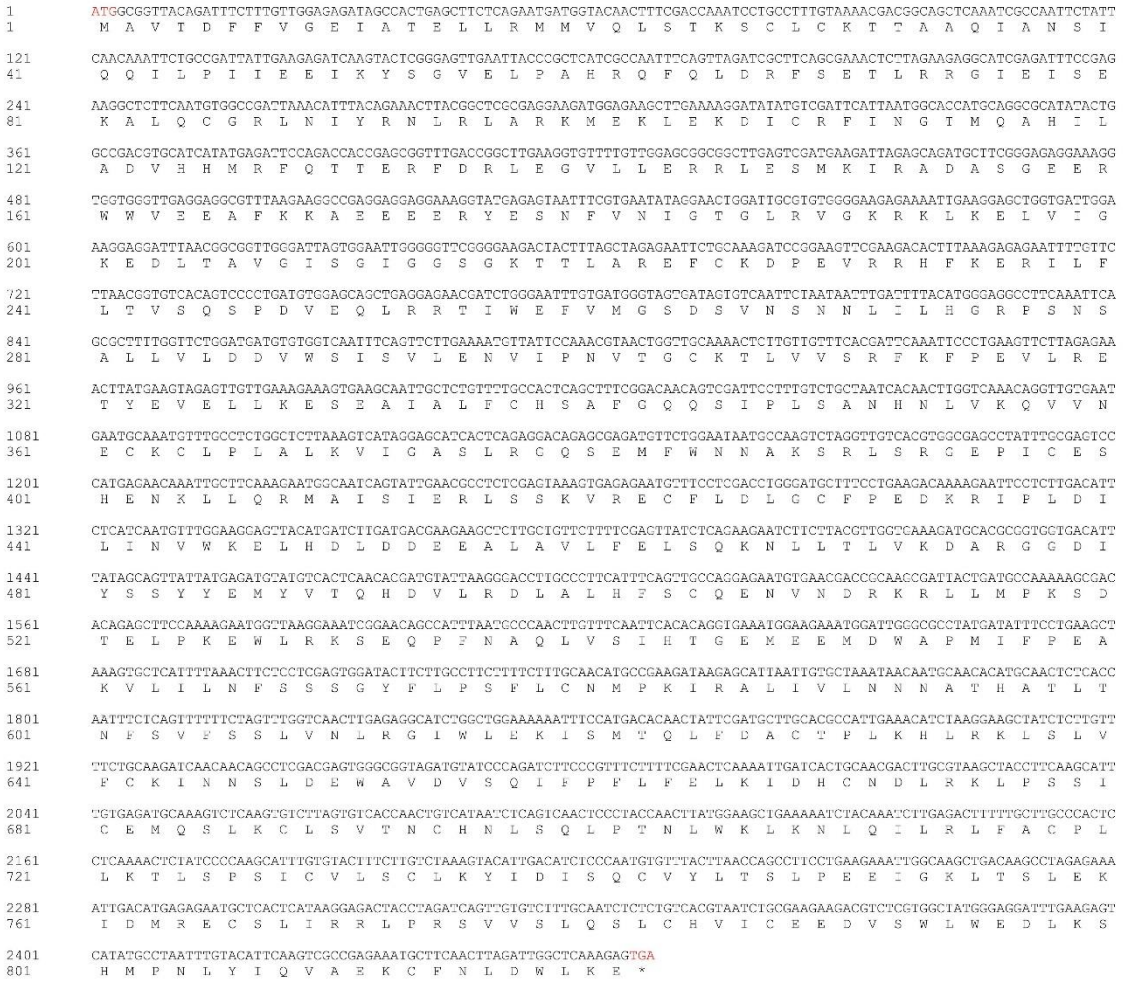

Figure S2. Nucleotide and deduced amino acid sequences of cucumber *CsRSF2* CDS encoding a protein. The deduced amino acid sequences are given below the nucleotide sequences. The transcriptional start site is shown in red and the termination codon is marked by an asterisk (*).

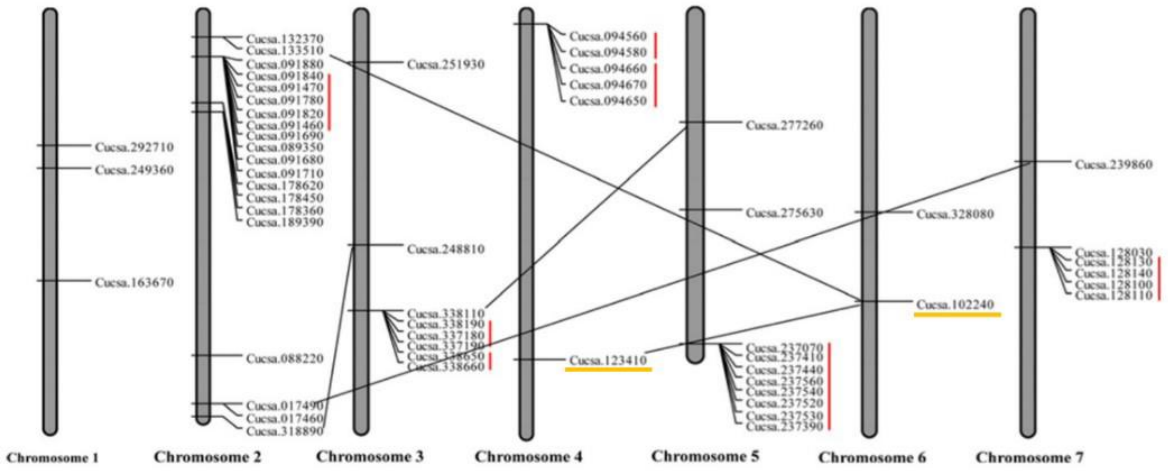

Figure S3. Chromosome location of NBS-LRR superfamily in the cucumber. The yellow lines represent *CsRSF1* (Cucsa.102240) and *CsRSF2* (Cucsa.123410).

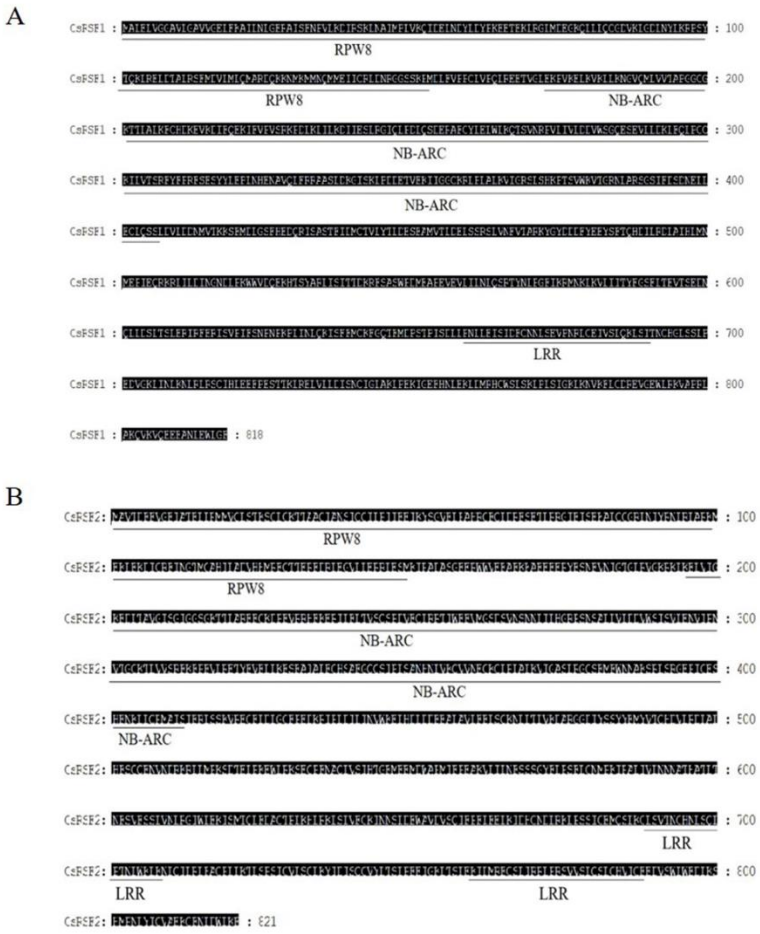

Figure S4. The structural domain of CsRSF protein. (A) The structural domain of CsRSF1 protein. (B) The structural domain of CsRSF2 protein. Lines represent the sequences of NB-ARC (NBS), LRR and RPW8 domains.

Supplementary Tables

Table S1 The primers of PCR used in this study.

Analysis	Primer name	Sequence(5'-3')
PCR for *CsRSF1*	*CsRSF1*-F	TTGATACATATGCCCGTCGACATGGCGCTGGAATTGGTG
	CsRSF1-R	GCCCTTGCTCACCATGGATCCAAAACCAAGCCACTCCAGGTT
PCR for *CsRSF2*	*CsRSF2*-F	TTGATACATATGCCCGTCGACATGGCGGTTACAGATTTCTTTGT
	CsRSF2-R	GCCCTTGCTCACCATGGATCCCTCTTTGAGCCAATCTAAGTTGAAG
CsRSF1-silencing vector	TRV*CsRSF1*-F	AAGGTTACCGAATTCTCTAGAGCTTCTTCCTCTTGCACTTTCA
	TRV*CsRSF1*-R	GGGACATGCCCGGGCGCTCGAGGTCCTGCTTGATATATCTAACTG
CsRSF2-silencing vector	TRV*CsRSF2*-F	AAGGTTACCGAATTCTCTAGATCACTCTTTGAGCCAATCTAAG
	TRV*CsRSF2*-R	GGGACATGCCCGGGCGCTCGAGAAGCATTTGTGTACTTTCTTGT
CsRSF1-overexpression vector	GFP*CsRSF1*-F	TTGATACATATGCCCGTCGACATGGCGCTGGAATTGGTG
	GFP*CsRSF1*-R	GCCCTTGCTCACCATGGATCCAAAACCAAGCCACTCCAGGTT
CsRSF2-overexpression vector	GFP*CsRSF2*-F	TTGATACATATGCCCGTCGACATGGCGGTTACAGATTTCTTTGT
	GFP*CsRSF2*-R	GCCCTTGCTCACCATGGATCCCTCTTTGAGCCAATCTAAGTTGAAG
Chimeric primer for *CsRSF1*-GFP	*CsRSF1*-GFP-F	CAAGCTGCCACTGTCGATTG
	CsRSF1-GFP-R	TGGTGCAGATGAACTTCAGGGT
Chimeric primer for *CsRSF2*-GFP	*CsRSF2*-GFP-F	TACCTAGATCAGTTGTGTCTTTGCA
	CsRSF2-GFP-R	TGGTGCAGATGAACTTCAGGGT

Table S2 The primers of qRT-PCR used in this study.

Analysis	Primer name	Sequence(5'-3')
CsActin gene for qRT-PCR	Actin-F	TCGTGCTGGATTCTGGTG
	Actin-R	GGCAGTGGTGGTGAACAT
qRT-PCR for *CsRSF1*	q-*CsRSF1*-F	CTACCTTCATTGACATGTGCAC
	q-*CsRSF1*-R	TTCGAGAGGATAGTTCGTCAAG
qRT-PCR for *CsRSF2*	q-*CsRSF2*-F	CGGGGAAGACTACTTTAGCTAG
	q-*CsRSF2*-R	GTTTTGCAACCAGTTACGTTTG
Chitinase for qRT-RCR in transgenic cucumber	*Chitinase*-F	GCCGCAGTGTCCAATACCAG
	Chitinase-R	TCAGGAGATTGTCCGCGTTA
CuPi1 for qRT-RCR in transgenic cucumber	*CuPi1*-F	GCACCAAAACAACGAAAAGG
	CuPi1-R	GGCTATAAGGACCGCTACCAT
PR-1a for qRT-RCR in transgenic cucumber	*PR-1a*-F	GAACTCTGGCGGACCTTA
	PR-1a-R	GCATCTCACTTTGGCACATC