

Figure S1. The full-length cDNA nucleotide sequence and corresponding amino acid sequence of PnIRF5. The start codon (ATG) and stop codon (TAA) were formatted in bold text. The predicted DNA binding domain (DBD, 7-104 aa) was indicated by grey shade. The middle region (MR, 108-195 aa), IRF association domain (IAD, 196-327 aa) and virus activated domain (VAD, 326-479 aa) were showed by underline with line, wavy lines and double lines, respectively. The two nuclear localization signals (NLSs, 5-10 aa, 413-419 aa) in the DBD and IAD were indicated by box. The five conserved tryptophan (W) residues forming the 'tryptophan pentad-repeat' were formatted in bold red text.

Table S1 The amino acid similarities (%) of *Pn*IRF5 and other known IRF5s

	GenBank accession numbers	Homo sapiens			Mauremys mutica			Gallus gallus			Mus musculus			Danio rerio			Pelophylax nigromaculatus		
		All	DBD	IAD	All	DBD	IAD	All	DBD	IAD	All	DBD	IAD	All	DBD	IAD	All	DBD	IAD
Homo sapiens	XP_04727 6292.1	-	-	-	63.27	79.05	68.56	52.97	62.04	53.28	84.98	92.86	90.35	48.64	70.48	54.59	56.94	73.33	64.19
Mauremys mutica	XP_04484 7579.1	63.27	79.05	68.56	-	-	-	53.18	61.90	55.41	62.68	77.14	68.86	55.38	78.10	58.55	61.26	83.81	66.09
Gallus gallus	XP_04676 4556.1	52.97	62.04	53.28	53.18	61.90	55.41	-	-	-	53.18	61.11	53.07	48.73	61.90	51.52	48.73	63.81	49.35
Mus musculus	NP_0012 39311.1	84.98	92.86	90.35	62.68	77.14	68.86	53.18	61.11	53.07	-	-	-	51.58	69.52	57.46	56.55	74.29	64.04
Danio rerio	NP_0013 14746.1	48.64	70.48	54.59	55.38	78.10	58.55	48.73	61.90	51.52	51.58	69.52	57.46	-	-	-	54.00	78.10	58.80
Pelophylax nigromaculatus	OP03910 1	56.94	73.33	64.19	61.26	83.81	66.09	48.73	63.81	49.35	56.55	74.29	64.04	54.00	78.10	58.80	-	-	-