

Figure S3

A

	% identical / amino acids								
	IAN1	IAN2	IAN3	IAN4	IAN5	IAN6	IAN7	IAN9	
IAN1	100.0 / 328								
IAN2	37.9 / 235	100.0 / 300							
IAN3	37.2 / 288	39.2 / 240	100.0 / 293						
IAN4	36.5 / 233	40.1 / 287	41.4 / 220	100.0 / 301					
IAN5	38.3 / 240	47.1 / 210	42.9 / 217	83.8 / 291	100.0 / 308				
IAN6	38.8 / 206	43.7 / 197	39.5 / 195	50.3 / 183	50.6 / 180	100.0 / 305			
IAN7	39.3 / 270	38.4 / 203	53.1 / 290	37.6 / 229	37.6 / 229	41.4 / 203	100.0 / 291		
IAN9	32.7 / 223	41.1 / 192	42.3 / 189	39.9 / 203	39.9 / 203	41.1 / 180	39.8 / 186	100.0 / 688	

B

G1 (P-loop)
 IAN4 1' METLQNVVTGGKGGCTSGSRPLR ILLVKGSGCGKSATGNSLLRRPAPESRLRGQS
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 IAN5 1" MEHLQKSTYGTIVQGFPAHCVQESSCLR ILLVKGSGCGKSATGNSILRRPAPQRSRLRGQS

G2 **G3**
 IAN4 57' VTRTSQAETGTWEGRSILVVDTPPIFESKAQNQDMDKDIDGDCYLLCAPGPHVLLLVLTQLG
 * * * * *
 IAN5 61" VTRTSQAETGTWEGRSILVVDTPPIFESKAQNQDMDKDIDGDCYLLCAPGPHVLLLVLTQLG

G4
 IAN4 117' RFTAEDVMAVRMVKEVFGVGMHRMIVLTRKDLAEKSLEEFVTHTDNRSLSLVOECG
 * * * * *
 IAN5 121" RFTAEDAMAVRMVKEVFGVGMHRMIVLTRKDLEEKSLLEEFVTHTDNRSLSLVOECG

IAN motif **Coiled coil**
 IAN4 177' RRYCAFNNRASGEEQOQLAELMALVRRLEOECEGSFHSNDLFLHAETLLREQYSVHOEA
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 IAN5 181" RRYCAFNNRASGEEQOQLAELMALVRRLEOECEGSFHSNDLFLHAEALLREQYSVHOEA

Coiled coil **Hydrophobic**
 IAN4 237' YRCYLAKVROEVEKORWELEEOEGSWVLKVLPIGKKLEVLHSDFCWYLVLAAILIFFVFFF
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 IAN5 241" YRCYLAKVROEVEKORWELEEOEGSWIAKMICTVKSCWSSHTAACLLIVLGLTLLTTFI

IAN4 297' LLFYV
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 IAN5 301" NLCSRCK

C

