

Table S4: Class-Distinctive Sites Defined by Series of Mutual Information Calculations

		Classes Included in MI Calculation at a Given Site ¹					
Class Distinctive Site		G(io) & G(q)	G(io) & G(s)	G(io) & G(12)	G(q) & G(s)	G(q) & G(12)	G(s) & G(12)
	Invariant ²	0.0	0.0	0.0	0.0	0.0	0.0
	G(io)-D ³	>0.0	>0.0	>0.0	0.0	0.0	0.0
	G(q)-D ³	>0.0	0.0	0.0	>0.0	>0.0	0.0
	G(s)-D ³	0.0	>0.0	0.0	>0.0	0.0	>0.0
	G(12)-D ³	0.0	0.0	>0.0	0.0	>0.0	>0.0

¹Six independent MI calculations were carried out, each MI calculation involving sequences from only 2 of the 4 G α classes.

²A site was defined as “Invariant” when the MI score was 0.0 for all 6 MI calculations at that site.

³A site was defined as “Distinctive” for a given G α class when the six MI scores at that site fit the criteria established for that class.