

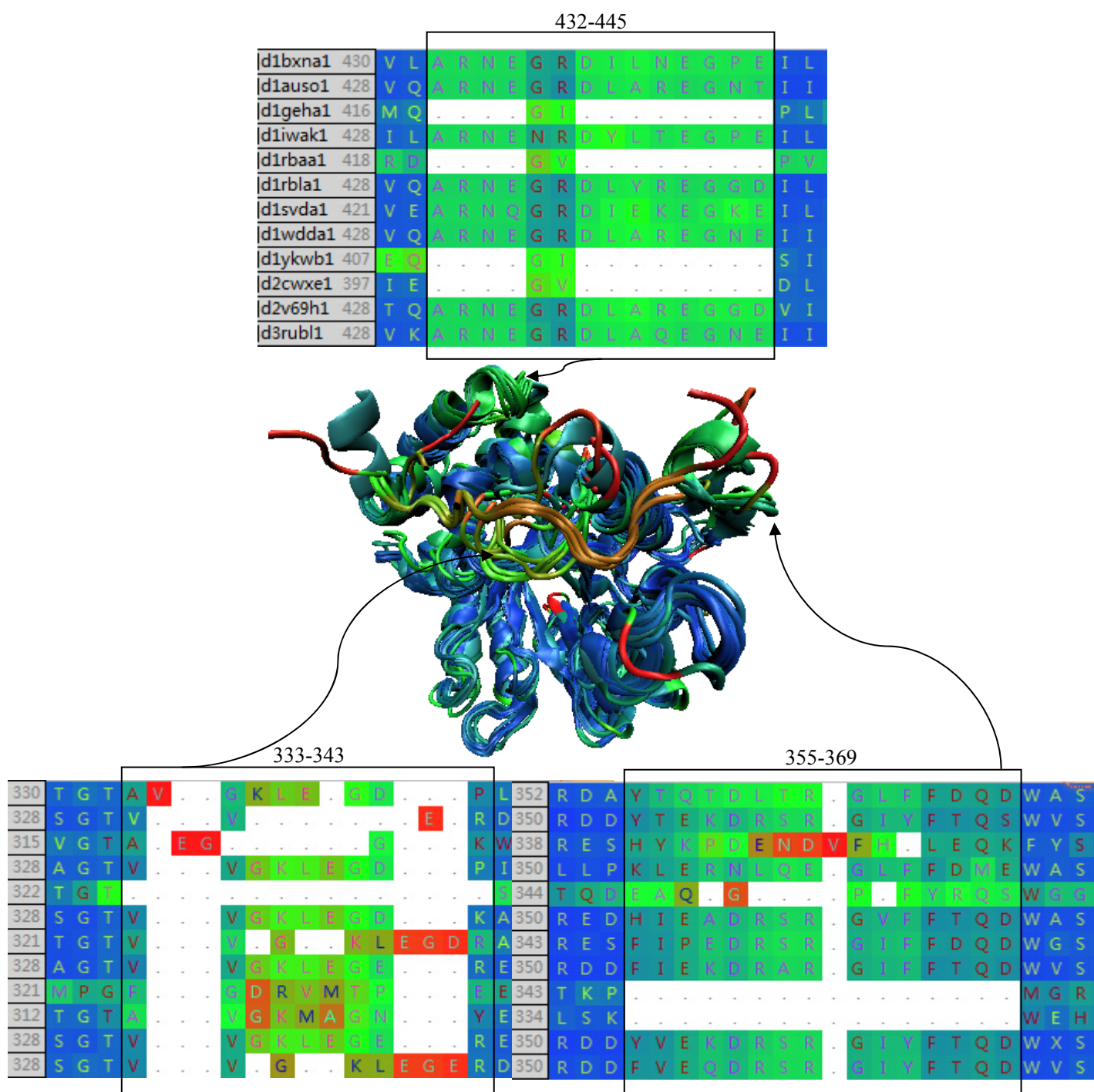


Fig. S1 Structural alignment of LSC

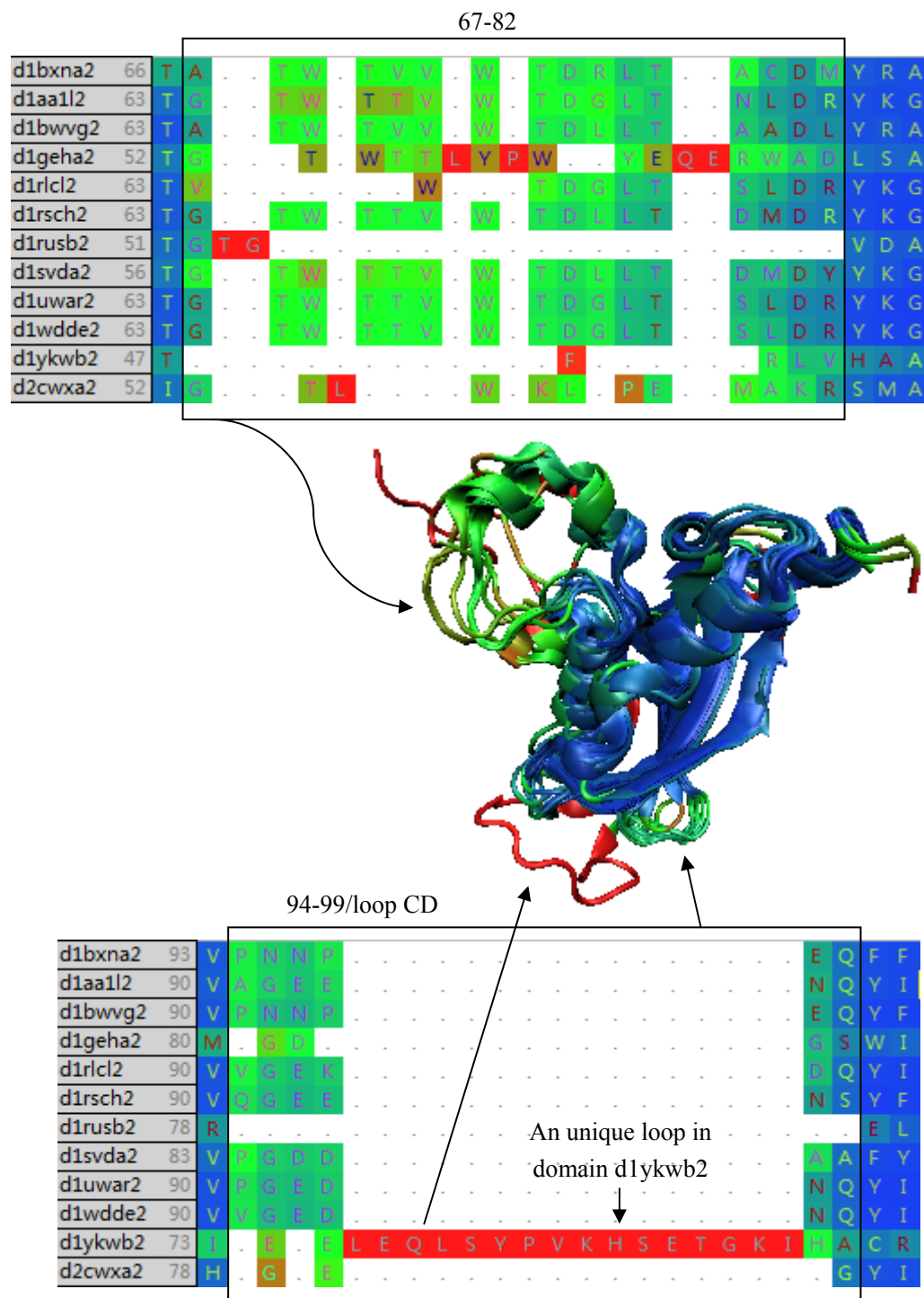


Fig. S2 Structural alignment of LSN

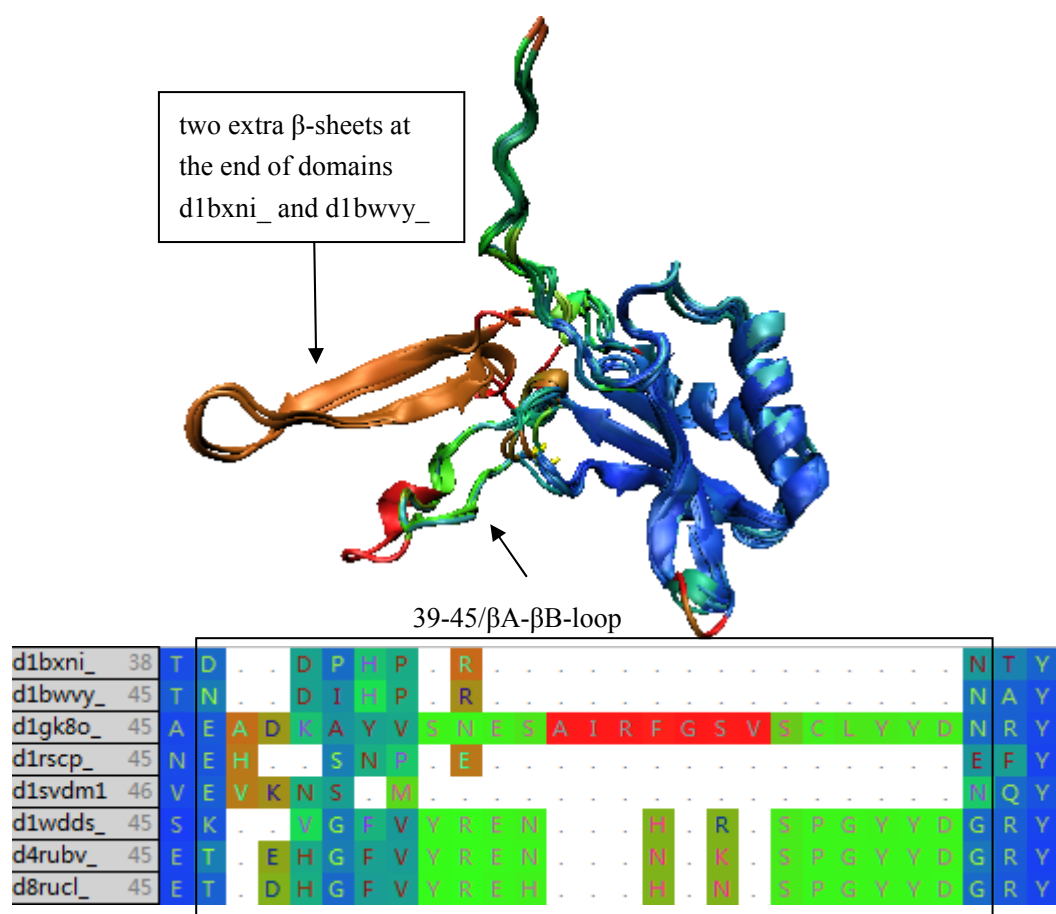


Fig. S3 Structural alignment of SS

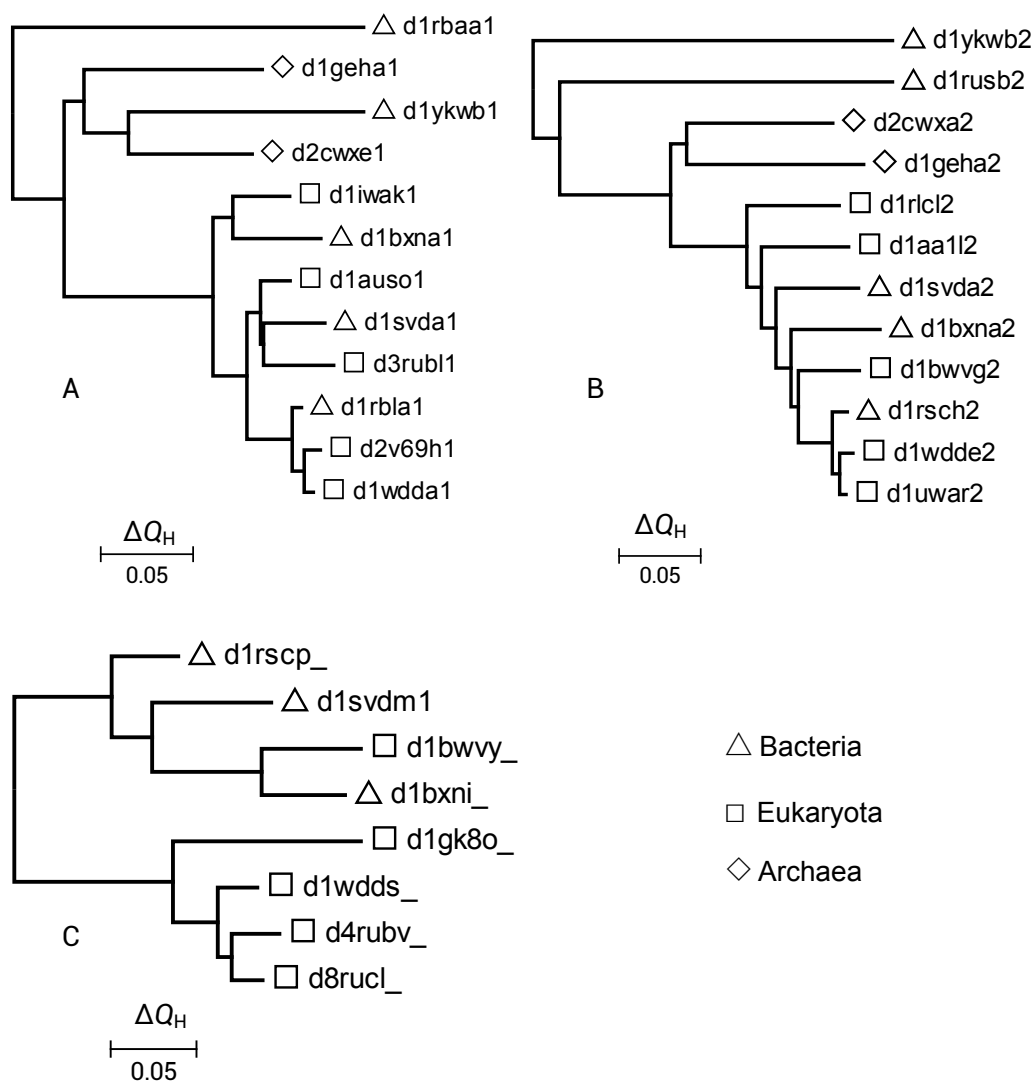


Fig. S4 The structural dendrogram of the nonredundant set (drawn with NJ method in MEGA version 4.1). A is for LSC, B is for LSN, and C is for SS.

Table S1 Distance (1 - Q_H) matrix for nonredundant structural dendrogram

domain	matrix											
LSC	d1bxna1											
	d1auso1	0.1031										
	d1geha1	0.2428	0.2205									
	d1iwak1	0.0782	0.0851	0.2319								
	d1rbaa1	0.3500	0.3447	0.3364	0.3462							
	d1rbla1	0.1064	0.0494	0.2401	0.0683	0.3564						
	d1svda1	0.1173	0.0509	0.2431	0.0992	0.3490	0.0738					
	d1wdda1	0.1143	0.0570	0.2524	0.0788	0.3642	0.0161	0.0809				
	d1ykwbl	0.2870	0.2917	0.2529	0.2933	0.3589	0.3002	0.3061	0.3105			
	d2cwxe1	0.2361	0.2307	0.1822	0.2296	0.3157	0.2344	0.2405	0.2452	0.1940		
	d2v69h1	0.1156	0.0616	0.2548	0.0827	0.3645	0.0202	0.0868	0.0138	0.3118	0.2493	
	d3rubl1	0.1272	0.0548	0.2504	0.1192	0.3551	0.0805	0.0709	0.0764	0.3005	0.2460	0.0815
LSN	d1bxna2											
	d1aal12	0.1188										
	d1bwvg2	0.0940	0.1267									
	d1geha2	0.2335	0.2333	0.2310								
	d1rlcl2	0.1499	0.1122	0.1204	0.2400							
	d1rsch2	0.0899	0.1033	0.0683	0.2267	0.1097						
	d1rusb2	0.3931	0.3989	0.3752	0.4037	0.3667	0.3828					
	d1svda2	0.1154	0.1071	0.1015	0.2130	0.1379	0.0901	0.4041				
	d1uwar2	0.0908	0.1060	0.0649	0.2285	0.1018	0.0200	0.3815	0.0916			
	d1wdde2	0.0976	0.1114	0.0708	0.2288	0.1021	0.0197	0.3832	0.1014	0.0122		
	d1ykwbl2	0.4424	0.4072	0.4178	0.4298	0.3847	0.4172	0.4402	0.4319	0.4104	0.4134	
	d2cwxa2	0.2295	0.2160	0.2130	0.1978	0.2138	0.2073	0.3451	0.1979	0.2152	0.2118	0.4081
SS	d1bxni_											
	d1bwvy_	0.1066										
	d1gk8o_	0.3998	0.3913									
	d1rscp_	0.1820	0.1882	0.3020								
	d1svdm1	0.1719	0.2009	0.3473	0.1263							
	d1wdds_	0.3237	0.3337	0.1696	0.2242	0.2848						
	d4rubv_	0.3450	0.3601	0.1792	0.2554	0.3115	0.0529					
	d8rucl_	0.3489	0.3530	0.1437	0.2434	0.3037	0.0551	0.0457				