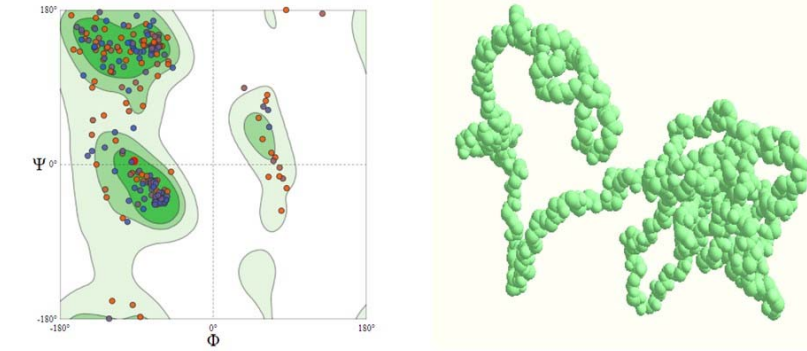
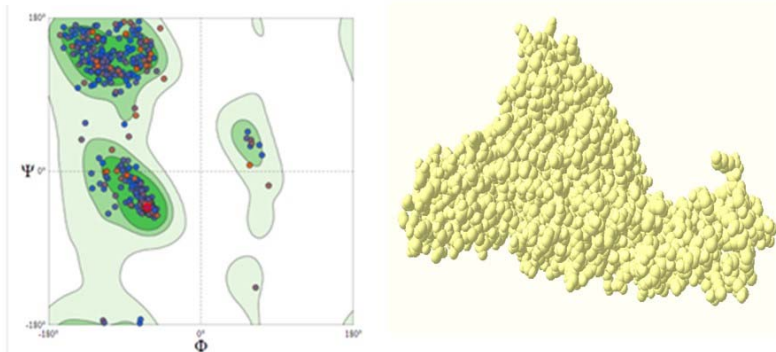


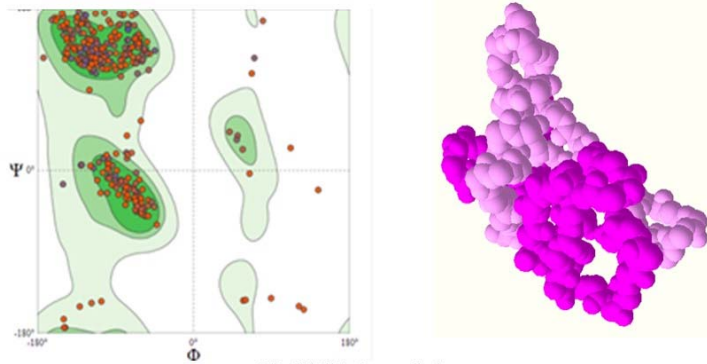
Appendix A



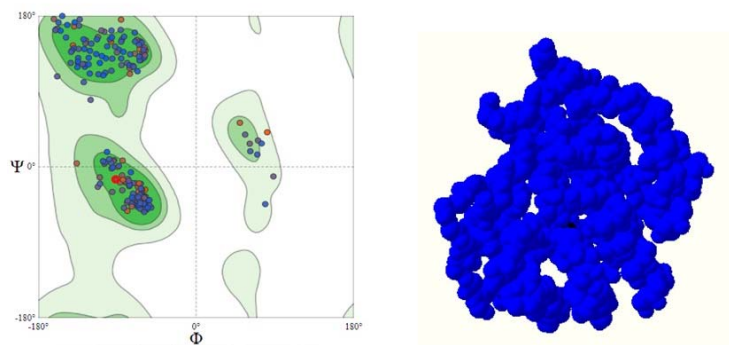
A) RPL6 model



B) HSPA9 model



C) ISCA1 model



D) LIAS model

Supplementary figure S1 Protein models with their corresponding Ramachandran plots: The SWISS model homology models for RPL6, HSPA9, ISCA1 and LIAS are represented here. The Ramachandran plots for these models indicates that the amino acids in all models are mostly in a ψ distribution

Supplementary table 1: ClusPro Docking and Protein interaction calculator results for protein interactions predicted using STRING.

Protein 1	Protein 2	Balanced scores			Hydrophobic interactions			Electrostatic interactions		
		Cluster	Central energy	Lowest energy	Cluster	Central energy	Lowest energy	Cluster	Central energy	Lowest energy
RPL9	LIAS	118	-665	-750.2	174	-788.4	-860.9	137	-740.9	-865.7
		112*	-727.6	-727.6	138	-746.6	-808.7	101	-854.8	-889.1
		74	-582.2	-669	112	-725.1	-837.2	94	-786.3	-910.7
		60	-598.2	-654.7	83	-851.1	-851.1	81	-796.8	-847
		51	-582.1	-702.4	73	-725	-810.3	79	-705.3	-785.5
		48	-588.2	-636.3	71	-749.3	-858.5	46	-764	-871.3
		38	-578	-627.5	63	-735	-876.5	40	-702.3	-894.3
		38	-613.1	-613.1	42	-737.4	-808.5	38	-854.6	-854.6
		38	-606.5	-676.6	39	-745	-796.1	37	-701.2	-769.2
		37	-715.7	-715.7	31	-757.1	-795.8	35	-699.4	-784.9
HSPA9	RPL6	44	-886.8	-966.3	84	-929.9	-1003	50	-1125	-1181.6
		41	-929	-940	51	-846.2	-942.6	43	-1108.2	-1108.2
		36*	-882.2	-959	39	-1112.8	-1112.8	37	-1057.5	-1130.2
		31	-805.8	-898.7	37	-826.6	-998.2	22	-1177.4	-1177.4
		29	-845	-845	35	-860.5	-1053.3	22	-1002.5	-1063.8
		26	-772.5	-947.4	32	-904.9	-1027.6	20	-961.7	-1007.3
		25	-893.9	-893.9	28	-933.1	-999.8	20	-918.2	-982.1
		25	-818.3	-888.7	28	-921.9	-931.1	19	-985.4	-1064.8
		16	-795.5	-914.8	26	-904.4	-1082.7	18	-1027.6	-1126.6
		15	-768.6	-841.5	21	-892	-985.6	18	-938.6	-993.7
LIAS	ISCA1	120	-647.5	-679.9	206	-660.6	-769.8	100	-721.5	-792.9
		75	-646.4	-705.7	72	-608	-625.8	79	-716.4	-857.1
		53	-583.5	-751.1	58	-642.4	-680	66	-740.5	-808.6
		38*	-738.2	-738.2	56	-805.8	-805.8	53	-835.5	-844.2
		31	-592.4	-671.9	50	-609	-739.7	53	-813.1	-854.8
		29	-687.5	-768.5	49	-695.3	-695.3	38	-784	-880.3
		26	-632.8	-636	40	-572.6	-661.7	35	-708.4	-905.5
		25	-579.1	-638.8	35	-558.5	-664	35	-694.3	-807.4
		25	-631.1	-701.9	31	-729.2	-729.2	29	-686.4	-798.9
		24	-610.3	-686.4	27	-644	-644	29	-685.6	-804.3
		31	-592.4	-671.9	206	-660.6	-769.8	100	-721.5	-792.9
HSPA9	ISCA1	75	-598.9	-621.3	164	-613.3	-858.5	164	-613.3	-858.5
		61*	893	893	109	-622.8	-704.8	109	-622.8	-704.8
		49	-654.7	-654.7	85	-746.5	-814.7	85	-746.5	-814.7
		37	-657.8	-662	72	-662	-720.1	72	-662	-720.1
		32	-560.5	-631.3	70	-709.4	-709.4	70	-709.4	-709.4
		32	-658.4	-658.4	59	-716.3	-776.9	59	-716.3	-776.9
		30	-541.3	-586.3	50	-730	-730	50	-730	-730
		29	-659.3	-692.6	46	-652.1	-695.9	46	-652.1	-695.9
		27	-578.7	-578.7	37	-615.3	-797.8	37	-615.3	-797.8
		25	-633.1	-638.8	33	-717.6	-782	33	-717.6	-782