

Table S2 The basic physicochemical properties of the MsABF proteins.

Sequence ID	Number of Amino Acid	Molecular Weight(Da)	Theoretical pI	Instability Index	Aliphatic Index	Grand Average of Hydropathicity	Subcellular localization prediction
MsABF1	448	49000.08	5.75	51.53	67.03	-0.556	nucl
MsABF2	276	30685.68	5.43	48.97	74.09	-0.67	nucl
MsABF3	222	24404.29	4.92	47.51	67.16	-0.705	nucl
MsABF4	450	49171.23	5.75	50.83	66.73	-0.562	nucl
MsABF5	272	30618.93	5.93	70.02	62.79	-0.929	nucl
MsABF6	272	30665	5.93	68.29	63.86	-0.918	nucl
MsABF7	272	30636.95	6.04	67.88	62.43	-0.945	nucl
MsABF8	272	30671.99	6.04	69.42	62.43	-0.937	nucl
MsABF9	322	36014.37	6.14	49.35	71.43	-0.777	nucl
MsABF10	450	48815.85	8.9	44.38	68.91	-0.677	nucl
MsABF11	425	46264.85	8.8	42.64	67.22	-0.718	nucl
MsABF12	322	36099.44	6.21	48.7	70.53	-0.836	nucl
MsABF13	444	48236.24	8.9	43.73	69.39	-0.668	nucl
MsABF14	322	36116.47	6.14	49.87	70.84	-0.799	nucl
MsABF15	322	36044.34	5.96	45.79	72.05	-0.789	nucl
MsABF16	444	48236.24	8.9	43.73	69.39	-0.668	nucl
MsABF17	340	36504.19	8.55	33.05	70.26	-0.54	nucl
MsABF18	376	41550.91	9.47	54.4	72.29	-0.689	nucl
MsABF19	156	17336.19	5.96	59.71	79.49	-0.656	nucl
MsABF20	376	41532.88	9.47	55.12	73.32	-0.682	nucl
MsABF21	160	17867.72	5.96	59.2	77.5	-0.724	nucl
MsABF22	210	23886.42	6.39	74.46	69.29	-1.078	nucl

MsABF23	210	23886.42	6.39	74.46	69.29	-1.078	nucl
MsABF24	210	23886.42	6.39	74.46	69.29	-1.078	nucl
MsABF25	376	41550.91	9.47	54.4	72.29	-0.689	nucl
MsABF26	243	26616.98	8.69	40.91	80.7	-0.593	nucl
MsABF27	252	27993.34	6.11	47.34	72.74	-0.692	nucl
MsABF28	644	69760.21	8.39	47.72	81.61	-0.391	nucl
MsABF29	190	21090.37	9.33	72.87	66.74	-0.705	nucl
MsABF30	241	26541.66	5.99	45.83	70.41	-0.586	nucl
MsABF31	253	27755.27	7.87	41.93	81.74	-0.562	nucl
MsABF32	201	22414.96	9.3	71.15	69.4	-0.614	nucl
MsABF33	688	74994.38	8.73	45.34	82.92	-0.371	nucl
MsABF34	322	35758.99	8.65	50.89	73.54	-0.791	nucl
MsABF35	322	35758.99	8.65	50.89	73.54	-0.791	nucl
MsABF36	320	35575.67	6.85	51.2	61.88	-0.86	nucl
MsABF37	444	48261.27	8.62	56.32	61.71	-0.814	nucl
MsABF38	321	35733.82	6.85	52.77	61.68	-0.87	nucl
MsABF39	215	24697.56	9.15	78.62	65.81	-0.848	nucl
MsABF40	320	35513.58	6.85	52.39	63.41	-0.845	nucl
MsABF41	307	33939.79	6.42	53.18	64.82	-0.812	nucl
MsABF42	290	32168.23	9.02	51.89	73.62	-0.621	nucl
MsABF43	322	36029.55	8.41	57.48	66.65	-0.793	nucl
MsABF44	298	33179.15	6.94	52.67	65.47	-0.833	nucl
MsABF45	322	36039.64	8.41	56.11	68.17	-0.768	nucl
MsABF46	309	34112.16	8.98	45.21	74.72	-0.731	nucl
