

Additional file 4: Characteristics of putative PnTFs

TF Family	Length (aa)			Molecular Weight (kDa)			Aromaticity			Instability index			Isoelectric point		
	mean	max	min	mean	max	min	mean	max	min	Mean	max	min	mean	max	min
AP2	468	730	261	51.85	81.05	29.74	0.09	0.12	0.08	50.61	67.26	37.37	6.93	9.13	5.73
ARF	766	1413	392	84.98	156.30	43.77	0.08	0.09	0.06	56.14	68.59	41.21	6.61	9.29	5.29
ARR-B	659	876	393	73.06	97.79	43.63	0.07	0.08	0.05	48.10	56.90	37.57	6.11	7.67	5.01
B3	382	927	87	43.02	102.53	10.33	0.10	0.15	0.04	50.75	79.07	23.77	7.94	10.42	4.91
BBR-BPC	394	642	287	43.75	70.07	31.75	0.06	0.09	0.05	48.18	54.02	39.45	9.27	9.66	7.98
BES1	468	949	143	51.50	105.72	16.38	0.08	0.10	0.07	57.75	76.38	40.95	7.94	9.50	5.38
bHLH	360	1575	129	39.60	166.00	14.42	0.06	0.10	0.02	56.36	86.56	37.66	6.85	10.31	4.68
bZIP	307	760	80	33.94	84.88	9.32	0.05	0.10	0.01	57.27	83.61	26.51	7.63	11.00	4.69
C2H2	417	1459	122	45.72	160.42	13.79	0.06	0.09	0.03	54.15	89.83	36.16	7.95	9.74	5.03
C3H	403	847	126	44.28	92.14	14.07	0.09	0.17	0.04	56.74	78.97	31.85	7.96	9.83	5.10
CAMTA	846	1121	144	94.74	124.86	16.39	0.08	0.09	0.07	50.63	67.71	40.92	6.31	7.74	5.20
CO-like	384	486	324	41.95	54.34	36.06	0.07	0.10	0.06	50.83	60.99	41.72	6.15	8.78	5.09
CPP	673	963	235	73.64	104.99	25.95	0.05	0.06	0.04	59.41	65.05	54.27	7.35	8.86	6.50
DBB	293	962	175	32.29	109.03	19.16	0.06	0.09	0.02	53.90	83.95	39.61	6.17	9.13	4.57
Dof	299	504	71	32.40	54.32	8.09	0.08	0.10	0.05	54.09	72.78	39.25	7.91	9.99	5.23
E2F-DP	414	549	274	45.44	59.52	30.77	0.06	0.09	0.04	50.66	57.39	40.82	6.80	9.13	4.93
EIL	457	713	86	50.88	79.19	9.41	0.07	0.10	0.05	54.86	77.38	40.75	6.40	9.92	5.03
ERF	256	891	68	28.05	98.62	7.89	0.08	0.14	0.04	57.04	91.25	35.70	6.84	11.18	4.43
FAR1	611	1369	103	69.26	149.86	11.53	0.09	0.14	0.05	49.03	60.03	39.18	7.16	9.58	4.98

G2-like	345	573	91	38.33	61.94	10.38	0.06	0.10	0.03	56.39	74.49	34.40	7.65	10.19	4.80
GATA	271	583	115	29.49	62.49	12.61	0.06	0.09	0.03	60.14	84.20	30.78	7.94	10.34	4.88
GeBP	413	499	293	44.97	53.48	32.89	0.05	0.06	0.04	60.74	75.67	40.22	6.86	9.54	4.92
GRAS	477	833	78	52.52	89.92	9.30	0.08	0.16	0.05	50.70	74.33	35.53	6.01	10.63	4.30
GRF	411	579	173	44.44	62.70	19.23	0.08	0.12	0.05	56.15	69.69	48.41	8.12	10.38	5.68
HB-other	406	1705	120	45.90	191.83	13.80	0.07	0.10	0.04	57.61	73.89	42.55	6.81	9.81	5.00
HB-PHD	841	841	841	94.00	94.00	94.00	0.06	0.06	0.06	55.77	55.77	55.77	6.36	6.36	6.36
HD-ZIP	408	1061	82	45.23	114.11	9.31	0.06	0.09	0.03	57.38	78.66	40.12	6.69	9.56	4.64
HRT-like	513	525	501	57.89	59.20	56.59	0.07	0.07	0.07	50.57	51.26	49.89	9.33	9.41	9.25
HSF	325	551	104	36.59	61.52	11.69	0.08	0.12	0.06	53.64	66.22	36.28	6.70	9.93	4.85
LBD	222	698	79	24.21	76.58	8.47	0.07	0.13	0.04	59.52	78.55	40.41	7.74	10.25	4.58
LFY	380	380	380	42.11	42.11	42.11	0.08	0.08	0.08	42.92	42.92	42.92	7.13	7.13	7.13
LIM	249	598	166	27.88	67.48	18.47	0.09	0.11	0.07	40.39	58.36	31.69	8.86	9.16	7.96
LSD	237	724	68	25.50	80.77	7.07	0.05	0.08	0.03	50.88	67.73	34.48	7.81	8.94	4.72
MIKC_MADS	260	701	167	29.99	81.97	19.16	0.06	0.09	0.04	52.51	71.48	31.76	8.99	9.82	6.24
M-type_MADS	182	413	69	20.35	43.75	7.78	0.07	0.10	0.05	53.05	80.66	30.93	9.16	11.25	5.48
MYB	360	1129	101	40.21	124.10	11.71	0.07	0.11	0.04	55.59	74.58	32.80	7.20	11.33	4.83
MYB_related	373	1840	69	41.18	200.75	7.81	0.07	0.12	0.04	52.87	89.69	30.33	7.72	11.90	4.47
NAC	355	1368	88	40.19	150.33	9.86	0.10	0.15	0.05	47.61	72.89	14.82	6.69	9.87	4.57
NF-X1	726	1070	255	79.30	115.53	28.16	0.05	0.06	0.04	61.53	65.55	58.29	8.68	8.98	8.37
NF-YA	372	706	275	41.01	76.17	30.40	0.07	0.10	0.05	54.04	63.00	42.57	8.57	9.83	5.20
NF-YB	191	395	118	20.78	41.64	13.39	0.06	0.09	0.04	45.67	59.59	29.76	5.81	8.87	4.68
NF-YC	230	373	116	25.35	40.89	12.78	0.07	0.10	0.03	58.52	69.80	32.42	6.69	9.67	4.43
Nin-like	584	1018	86	65.36	112.21	10.00	0.07	0.09	0.04	55.88	75.83	46.77	6.26	10.18	4.56
NZZ-SPL	317	317	317	34.66	34.66	34.66	0.09	0.09	0.09	57.43	57.43	57.43	6.57	6.57	6.57

PLATZ	320	1064	171	35.29	116.12	18.95	0.07	0.09	0.05	56.95	73.53	40.83	8.80	10.06	5.67
RAV	358	381	346	39.23	41.71	37.74	0.08	0.09	0.07	43.37	54.35	35.52	9.27	9.65	8.71
S1Fa-like	288	456	120	31.81	50.50	13.12	0.07	0.08	0.06	32.61	35.75	29.48	9.62	10.17	9.07
SAP	432	442	422	46.98	48.33	45.63	0.08	0.08	0.08	48.85	51.71	46.00	7.42	8.16	6.67
SBP	492	1101	177	54.12	120.91	19.81	0.08	0.14	0.03	57.54	77.22	41.43	8.27	9.72	5.90
SRS	310	531	186	33.19	55.76	19.98	0.07	0.08	0.05	65.36	82.12	52.44	8.46	9.25	7.24
STAT	747	747	747	83.07	83.20	82.94	0.07	0.07	0.07	48.98	49.08	48.87	6.59	6.64	6.54
TALE	504	884	307	55.54	93.60	34.89	0.07	0.09	0.05	47.26	60.39	38.37	6.19	9.07	5.04
TAZ	537	1866	178	60.85	211.45	20.26	0.07	0.10	0.05	52.25	65.86	37.72	8.54	9.52	5.81
TCP	357	619	96	38.29	65.80	10.22	0.06	0.08	0.03	54.83	82.42	37.92	8.71	11.46	6.03
Trihelix	444	732	126	48.59	79.42	13.82	0.06	0.07	0.04	69.85	84.74	57.80	7.50	10.14	4.78
TUB	442	1078	202	49.41	122.34	22.60	0.09	0.11	0.07	56.44	63.62	43.10	9.35	9.67	7.78
VOZ	544	793	436	60.50	87.35	49.35	0.09	0.10	0.08	49.58	55.03	45.42	5.80	7.61	4.89
Whirly	261	385	136	28.92	42.40	15.38	0.10	0.11	0.09	46.40	53.12	39.64	9.63	9.86	9.47
WOX	238	375	140	26.87	42.16	16.63	0.08	0.11	0.06	60.65	79.25	48.77	8.49	10.27	5.85
WRKY	376	1692	77	41.26	189.17	8.76	0.07	0.12	0.03	52.29	86.29	27.67	7.43	10.27	4.85
YABBY	199	226	168	22.27	24.97	19.04	0.08	0.10	0.06	45.70	67.07	35.61	8.33	9.40	4.88
ZF-HD	218	393	96	23.99	43.18	10.74	0.06	0.10	0.03	59.97	77.15	48.52	8.36	9.64	5.96