

Supplementary Tables

Table S1. The basic amino acids information of reported functional *WRKY* genes

Gene ID	Number of amino acids	Molecular weight	Theoretical pI	Instability index	Aliphatic index	Grand average of hydropathicity (GRAVY)
<i>OsWRKY13</i>	316	34257.55	4.86	88.65	48.26	-0.94
<i>ZmWRKY106</i>	277	30022.99	4.88	82.58	51.95	-0.87
<i>OsWRKY47</i>	333	34837.53	6.14	70.97	54.26	-0.471
<i>NaWRKY3</i>	354	40079.55	8.43	68.95	43.76	-1.275
<i>CmWRKY10</i>	287	32208.08	5.6	68.01	45.51	-1.036
<i>VpWRKY1</i>	322	36490.11	5.58	66.7	56.61	-0.9
<i>GhWRKY68</i>	295	33186.32	8.71	65.23	59.83	-0.804
<i>VvWRKY24</i>	513	56965.73	8.58	65.17	45.24	-0.938
<i>MdWRKY30</i>	278	31270.13	8.85	65.08	70.11	-0.705
<i>OsWRKY11</i>	379	39855.97	6.55	63.38	49.45	-0.731
<i>OsWRKY11</i>	379	39855.97	6.55	63.38	49.45	-0.731
<i>AtWRKY25</i>	393	44133.65	6.05	63.25	54.02	-0.919
<i>ABF2</i>	349	38154.05	8.16	63.14	62.41	-0.72
<i>ZmWRKY40</i>	347	37671.77	8.7	62.95	68.16	-0.605
<i>FvWRKY42</i>	517	57464.66	7.63	62.73	43.77	-1.01
<i>TcWRKY53</i>	324	35879.15	5.63	61.95	66.45	-0.574
<i>SPF1</i>	549	59695.14	5.87	61.35	48.72	-0.874
<i>AtWRKY2</i>	687	74561.15	5.71	60.95	50.35	-0.891
<i>SlWRKY81</i>	291	33249.62	5.51	60.87	64.95	-0.791
<i>VbWRKY32</i>	507	55878.8	5.86	60.22	57.97	-0.97
<i>SpWRKY1</i>	535	59624.93	6.87	60.15	45.91	-1.062
<i>ZmWRKY17</i>	331	35323.81	9.88	59.92	59.34	-0.667
<i>VpWRKY2</i>	499	53899.84	6.23	59.62	56.51	-0.818
<i>GmWRKY12</i>	322	36581.76	5.45	59.5	66.34	-0.685
<i>TaWRKY33</i>	356	38907.43	7.72	59.07	60.08	-0.823
<i>OsWRKY80</i>	387	41697.67	6.76	58.88	60.13	-0.558
<i>OsWRKY80</i>	387	41697.67	6.76	58.88	60.13	-0.558
<i>SbWRKY30</i>	378	40525.93	6.11	58.4	53.15	-0.617
<i>AtWRKY53</i>	324	36272.58	6.34	58.27	67.38	-0.602
<i>AtWRKY53</i>	324	36272.58	6.34	58.27	67.38	-0.602
<i>PbrWRKY53</i>	347	38761.77	5.8	57.89	59.57	-0.823
<i>AtWRKY62</i>	263	30442.52	5.91	57.57	53.08	-0.963
<i>AtWRKY45</i>	147	17225.38	9.1	57.49	48.3	-1.065
<i>AtWRKY12</i>	218	24547.97	8.8	57.39	49.95	-0.893
<i>GhWRKY25</i>	516	56349.83	8.47	56.89	61.3	-0.765
<i>TaWRKY93</i>	350	38015.62	8.43	56.89	62.51	-0.746
<i>TaWRKY1</i>	303	32413.84	4.9	56.51	65.15	-0.428

<i>GmWRKY54</i>	323	36558.49	6.53	56.41	58.76	-0.864
<i>GmWRKY86</i>	383	42124.59	7.53	56.35	78.25	-0.528
<i>GhWRKY21</i>	331	36874.78	9.51	55.98	62.78	-0.768
<i>OsWRKY72</i>	242	25857.24	9.06	55.93	46.45	-0.778
<i>OsWRKY70</i>	572	59652.27	5.52	55.79	51.98	-0.566
<i>JrWRKY2</i>	191	21443.61	6.66	55.7	55.6	-1.191
<i>AtWRKY33</i>	519	57178.79	7.66	55.59	41.16	-1.026
<i>ThWRKY4</i>	391	43069.48	9.62	55.49	68.08	-0.72
<i>OsWRKY62.1</i>	318	33515.43	6	55.36	74.72	-0.325
<i>AtWRKY34</i>	568	62166.74	5.73	55.08	66.5	-0.656
<i>AtWRKY38</i>	289	33268.25	5.4	54.41	48.3	-1.153
<i>ZmWRKY58</i>	477	50689.68	6.57	54.14	53.52	-0.759
<i>AtWRKY18</i>	310	34765.76	6.87	54.07	67.32	-0.842
<i>AtWRKY40</i>	302	33695.99	8.59	54.04	70.3	-0.668
<i>OsWRKY74</i>	361	37944.1	5.96	53.99	64.21	-0.428
<i>OsWRKY74</i>	361	37944.1	5.96	53.99	64.21	-0.428
<i>CaWRKY6</i>	636	69308.58	6.32	53.45	54.25	-0.799
<i>SbWRKY50</i>	206	22091.34	6.96	53.11	49.85	-0.512
<i>JrWRKY7</i>	339	37218.1	9.58	52.66	63.3	-0.662
<i>GhWRKY41</i>	355	40062.62	5.46	52.57	66.99	-0.682
<i>GmWRKY136</i>	282	31665.75	8.59	52.38	72.23	-0.59
<i>OsWRKY67</i>	197	21400.66	5.95	52.32	52.01	-0.579
<i>OsWRKY30</i>	674	73261.34	7.38	52.28	59.38	-0.716
<i>AtWRKY70</i>	294	32935.64	5.85	51.53	59.66	59.66
<i>AtWRKY57</i>	287	32042.08	6.22	51.48	50.98	-0.985
<i>ABF1</i>	402	43231.86	8.24	50.68	36.27	-0.996
<i>OsWRKY76</i>	327	34780.17	8.26	50.66	68.69	-0.496
<i>FvWRKY48</i>	213	23549.8	8.76	49.77	45.87	-0.982
<i>GmWRKY27</i>	306	34199.27	8.44	49.66	60.49	-0.82
<i>AtWRKY60</i>	271	30577.62	9.14	49.63	71.22	-0.729
<i>AtWRKY75</i>	145	16801.82	9.27	49.53	53.66	-1.019
<i>TaWRKY44</i>	370	40389.33	8.43	49.26	61.19	-0.865
<i>AtWRKY1</i>	487	54010.23	6.43	48.96	66.96	-0.846
<i>TaWRKY2</i>	468	50347.69	8.56	48.79	56.11	-0.692
<i>OsWRKY45</i>	326	33987.78	5.53	48.65	66.26	-0.372
<i>AtWRKY6</i>	553	60593.05	5.91	48.51	58.26	-0.807
<i>AtWRKY42</i>	528	58071.48	6.61	48.14	63.77	-0.762
<i>VpWRKY3</i>	319	35485.93	7.67	47.68	70.6	-0.733
<i>GhWRKY17</i>	318	34830.73	9.45	47.51	65.25	-0.551
<i>GmWRKY17</i>	185	20387.88	9.26	46.89	65.35	-0.634
<i>AtWRKY71</i>	282	31955.35	6.95	46.69	56.56	-0.932
<i>TaWRKY49</i>	321	34165.82	6.13	46.58	63.33	-0.614
<i>GhWRKY33</i>	510	55929.24	7.15	45.8	45.31	-0.843
<i>BcWRKY46</i>	285	32173	5.33	45.53	68.42	-0.626

<i>CaWRKY40</i>	361	39659.27	8.12	45.07	64.24	-0.705
<i>AtWRKY63</i>	241	27378.84	5.63	44.89	74.81	-0.456
<i>AtWRKY63</i>	241	27378.84	5.63	44.89	74.81	-0.456
<i>VlWRKY3</i>	189	21258.88	9.13	44.76	54.13	-0.723
<i>TaWRKY19</i>	468	50786.2	6.02	44.75	65.09	-0.694
<i>AtWRKY46</i>	295	33634.72	5.73	44.08	74.31	-0.616
<i>AtWRKY54</i>	346	38645.28	5.23	43.44	52.4	-0.816
<i>AtWRKY54</i>	346	38645.28	5.23	43.44	52.4	-0.816
<i>GmWRKY53</i>	188	21031.36	9.35	43.07	55.9	-0.903
<i>AtWRKY13</i>	304	34203.57	7.07	42.57	62.47	-0.849
<i>ZmWRKY79</i>	324	34355.22	6.31	42.51	69.91	-0.466
<i>MuWRKY3</i>	491	53740.1	6.12	42.49	53.6	-0.859
<i>TaWRKY62</i>	251	27526.52	5.69	42.48	72.31	-0.627
<i>GbWRKY1</i>	166	19325.04	9.54	42	54.04	-0.838
<i>BhWRKY1</i>	334	38142.83	5.41	41.29	86.95	-0.126
<i>OsWRKY89</i>	263	29789.33	5.76	39.83	65.29	-0.757
<i>CaWRKY40b</i>	360	39929.22	8.15	37.86	60.92	-0.934
<i>PoWRKY13</i>	232	26255.79	9.32	58.01	65.22	-0.67
<i>GhWRKY39-1</i>	319	35740.56	9.96	55.61	57.77	-0.87
<i>AtWRKY8</i>	326	37294.04	7.73	56.92	49.88	-1.025
<i>CaWRKY27</i>	305	34245.02	5.65	64.63	52.72	-0.79
<i>AtWRKY48</i>	399	44725.64	6.06	60.69	47.92	-1.085
<i>AtWRKY29</i>	310	34421.13	6.27	53.41	52.55	-0.822
<i>GmWRKY13</i>	324	34984.59	9.77	51.52	64.2	-0.561

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