

Table 1 Identification, classification and physicochemical properties of *CiWRKY* genes

Gene name	Gene ID	Group	Number of amino acid	Molecular weight	Theoretical pI	Instability index	Aliphatic index	Grand average of hydropathicity	Subcellular localization
<i>CiWRKY1</i>	CiPaw.01G014300	IId	340	37190.96	9.50	57.00	64.56	-0.628	nucleus
<i>CiWRKY2</i>	CiPaw.01G066400	Ile	335	36720.32	5.27	57.21	50.72	-0.787	nucleus
<i>CiWRKY3</i>	CiPaw.01G067800	Iic	205	23309.64	9.30	49.00	67.51	-0.679	nucleus
<i>CiWRKY4</i>	CiPaw.01G073900	III	352	39323.53	5.15	53.91	60.65	-0.691	nucleus
<i>CiWRKY5</i>	CiPaw.01G127700	IIf	405	44206.63	7.70	57.79	65.41	-0.551	chloroplast
<i>CiWRKY6</i>	CiPaw.01G136600	Iic	334	37583.59	5.88	66.90	46.44	-0.987	nucleus
<i>CiWRKY7</i>	CiPaw.01G254500	Ila	312	34585.67	7.61	47.08	63.75	-0.758	nucleus
<i>CiWRKY8</i>	CiPaw.01G306900	III	379	42069.11	5.97	61.05	69.21	-0.634	nucleus
<i>CiWRKY9</i>	CiPaw.01G307000	III	321	36128.22	5.40	60.87	65.36	-0.735	nucleus
<i>CiWRKY10</i>	CiPaw.02G007000	IId	334	36957.96	9.38	42.40	66.26	-0.590	nucleus
<i>CiWRKY11</i>	CiPaw.02G034700	Ile	329	35772.31	5.05	62.39	54.59	-0.719	nucleus
<i>CiWRKY12</i>	CiPaw.02G035600	Iic	213	24307.73	9.23	49.56	64.04	-0.700	peroxisome
<i>CiWRKY13</i>	CiPaw.02G073500	Iic	326	36519.61	7.66	64.56	49.94	-0.918	nucleus
<i>CiWRKY14</i>	CiPaw.02G162100	Ila	316	35093.18	8.81	44.35	59.59	-0.870	nucleus
<i>CiWRKY15</i>	CiPaw.02G199000	III	363	40112.92	6.33	59.67	58.07	-0.701	nucleus
<i>CiWRKY16</i>	CiPaw.03G021200	I	517	56487.63	6.96	59.56	56.83	-0.771	nucleus
<i>CiWRKY17</i>	CiPaw.03G057700	Iic	186	21592.31	9.55	40.21	51.29	-0.965	nucleus
<i>CiWRKY18</i>	CiPaw.03G132400	Iic	210	23726.84	9.15	41.99	67.33	-0.605	nucleus
<i>CiWRKY19</i>	CiPaw.03G133500	Iic	190	21170.42	5.72	39.39	57.47	-0.750	nucleus
<i>CiWRKY20</i>	CiPaw.03G158300	IIf	632	68461.67	5.79	43.21	59.83	-0.703	nucleus
<i>CiWRKY21</i>	CiPaw.03G191000	Iic	305	34106.80	6.01	57.33	57.87	-0.836	nucleus
<i>CiWRKY22</i>	CiPaw.03G258800	IId	345	38228.54	9.49	55.15	71.77	-0.631	nucleus
<i>CiWRKY23</i>	CiPaw.04G014200	I	411	45185.20	8.17	59.63	57.69	-0.905	nucleus
<i>CiWRKY24</i>	CiPaw.04G019000	IIf	584	64364.93	7.57	49.74	60.67	-0.682	nucleus
<i>CiWRKY25</i>	CiPaw.04G039100	Iic	192	21792.63	9.42	45.92	54.79	-0.808	nucleus
<i>CiWRKY26</i>	CiPaw.04G089600	Iic	240	27202.55	9.22	52.87	55.62	-0.814	nucleus
<i>CiWRKY27</i>	CiPaw.04G090900	Iic	168	18918.78	7.12	59.53	49.29	-1.023	nucleus
<i>CiWRKY28</i>	CiPaw.04G114200	IIf	628	68098.75	6.48	47.06	60.67	-0.661	nucleus
<i>CiWRKY29</i>	CiPaw.04G182800	IId	344	38678.81	9.52	53.54	63.49	-0.801	nucleus
<i>CiWRKY30</i>	CiPaw.04G195800	I	464	51206.31	5.87	50.55	56.85	-0.924	nucleus
<i>CiWRKY31</i>	CiPaw.05G042300	IIf	528	58129.76	6.06	42.26	69.47	-0.688	nucleus
<i>CiWRKY32</i>	CiPaw.05G107300	Iic	181	20599.07	9.47	44.70	53.31	-0.839	nucleus
<i>CiWRKY33</i>	CiPaw.05G126900	Iic	230	25523.74	6.18	57.82	40.22	-1.108	nucleus
<i>CiWRKY34</i>	CiPaw.05G129000	I	539	58344.52	8.36	54.85	55.77	-0.829	nucleus

Continued Table 1

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<i>CiWRKY36</i>	CiPaw.05G257700	III	376	42114.93	6.6	65.43	59.44	-0.697	nucleus
<i>CiWRKY37</i>	CiPaw.05G261200	Ile	407	44301.32	5.57	63.24	51.38	-0.876	nucleus
<i>CiWRKY38</i>	CiPaw.06G007700	III	380	42296.65	5.65	59.07	57.76	-0.710	nucleus
<i>CiWRKY39</i>	CiPaw.06G081500	I Ib	337	37105.99	8.96	54.34	57.89	-0.718	nucleus
<i>CiWRKY40</i>	CiPaw.06G089200	I	527	57123.12	6.58	55.53	58.69	-0.739	nucleus
<i>CiWRKY41</i>	CiPaw.06G091000	I Ic	331	36543.33	6.45	57.17	58.28	-0.751	nucleus
<i>CiWRKY42</i>	CiPaw.06G104900	I Ic	180	20383.81	9.30	47.26	50.89	-0.869	nucleus
<i>CiWRKY43</i>	CiPaw.06G149300	I Ib	530	58783.37	5.53	43.87	69.75	-0.721	nucleus
<i>CiWRKY44</i>	CiPaw.07G118300	I Ile	265	30046.68	5.40	49.74	62.19	-0.869	nucleus
<i>CiWRKY45</i>	CiPaw.07G119500	I Ic	308	34065.14	6.72	66.56	61.46	-0.639	nucleus
<i>CiWRKY46</i>	CiPaw.07G125900	I Ib	544	59762.15	8.13	50.69	64.60	-0.619	nucleus
<i>CiWRKY47</i>	CiPaw.07G199600	I Id	315	34426.04	9.94	52.59	63.78	-0.625	nucleus
<i>CiWRKY48</i>	CiPaw.07G211500	I Id	344	36959.98	9.67	45.42	65.78	-0.480	nucleus
<i>CiWRKY49</i>	CiPaw.07G229500	I Ia	306	34486.7	7.65	49.13	65.69	-0.751	nucleus
<i>CiWRKY50</i>	CiPaw.07G229600	I Ia	264	29905.44	8.51	59.45	69.13	-0.755	nucleus
<i>CiWRKY51</i>	CiPaw.08G006400	I Ia	273	30585.53	8.86	59.86	73.22	-0.696	peroeus
<i>CiWRKY52</i>	CiPaw.08G006500	I Ia	310	34718.92	8.38	49.39	62.68	-0.709	nucleus
<i>CiWRKY53</i>	CiPaw.08G031100	I Id	316	34698.34	9.82	45.88	65.44	-0.574	nucleus
<i>CiWRKY54</i>	CiPaw.08G087600	I Ic	218	24291.21	9.40	63.60	54.54	-0.877	nucleus
<i>CiWRKY55</i>	CiPaw.08G089100	I Ile	256	29242.87	5.81	52.42	68.52	-0.915	nucleus
<i>CiWRKY56</i>	CiPaw.08G115100	I	720	78097.63	5.22	44.76	68.68	-0.540	nucleus
<i>CiWRKY57</i>	CiPaw.09G072600	I Ile	248	27480.58	5.19	57.71	54.23	-0.706	nucleus
<i>CiWRKY58</i>	CiPaw.09G095400	I Ib	588	63732.02	6.18	46.86	65.77	-0.604	nucleus
<i>CiWRKY59</i>	CiPaw.09G128600	I Ic	332	36331.24	6.66	63.55	44.70	-0.790	nucleus
<i>CiWRKY60</i>	CiPaw.09G147900	I Ile	459	48923.19	5.22	47.96	52.96	-0.583	nucleus
<i>CiWRKY61</i>	CiPaw.09G184100	I	475	51568.10	8.85	51.39	57.85	-0.826	nucleus
<i>CiWRKY62</i>	CiPaw.09G194700	None	338	38197.16	5.57	58.02	61.21	-0.856	nucleus
<i>CiWRKY63</i>	CiPaw.09G216000	I	542	60274.04	6.30	59.25	46.24	-0.908	nucleus
<i>CiWRKY64</i>	CiPaw.09G222100	III	309	34750.04	6.55	63.03	71.97	-0.657	nucleus
<i>CiWRKY65</i>	CiPaw.10G061400	I Ile	251	27895.11	5.04	51.26	54.78	-0.710	nucleus
<i>CiWRKY66</i>	CiPaw.10G073300	I Ib	588	63290.08	5.95	45.67	65.27	-0.615	nucleus
<i>CiWRKY67</i>	CiPaw.10G094700	I Ic	317	35918.59	6.92	62.88	45.58	-1.018	nucleus
<i>CiWRKY68</i>	CiPaw.10G138200	I	474	51575.63	9.43	43.46	54.63	-0.887	nucleus
<i>CiWRKY69</i>	CiPaw.10G146700	None	297	33436.37	4.89	60.67	66.7	-0.677	nucleus

Continued Table 1

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<i>CiWRKY73</i>	CiPaw.11G039600	IIb	610	66385.11	6.31	53.89	51.28	-0.854	nucleus
<i>CiWRKY74</i>	CiPaw.11G123000	III	358	40233.73	5.43	66.44	66.45	-0.680	nucleus
<i>CiWRKY75</i>	CiPaw.11G129700	IIe	307	34391.91	5.84	61.27	65.41	-0.593	nucleus
<i>CiWRKY76</i>	CiPaw.11G200800	I	498	54779.69	6.58	39.83	62.79	-0.729	nucleus
<i>CiWRKY77</i>	CiPaw.11G211300	I	745	80032.94	5.70	58.71	59.17	-0.679	nucleus
<i>CiWRKY78</i>	CiPaw.12G015800	IIb	427	47970.75	8.62	44.68	63.28	-0.734	nucleus
<i>CiWRKY79</i>	CiPaw.12G084300	III	357	39654.96	5.89	51.31	60.36	-0.614	nucleus
<i>CiWRKY80</i>	CiPaw.12G089100	IIc	180	20585.3	9.64	39.56	66.61	-0.803	nucleus
<i>CiWRKY81</i>	CiPaw.12G089200	IIe	311	34879.22	6.12	64.62	66.14	-0.625	nucleus
<i>CiWRKY82</i>	CiPaw.12G135700	I	584	63140.97	6.93	46.70	60.60	-0.689	nucleus
<i>CiWRKY83</i>	CiPaw.13G025100	IIc	227	25660.05	6.99	43.81	43.70	-0.993	nucleus
<i>CiWRKY84</i>	CiPaw.13G068200	I	592	64845.83	7.33	58.02	48.63	-0.912	nucleus
<i>CiWRKY85</i>	CiPaw.13G178200	None	162	18571.91	8.89	39.63	69.14	-0.690	chloroplast
<i>CiWRKY86</i>	CiPaw.14G053400	I	586	64529.93	6.45	57.66	43.99	-1.017	nucleus
<i>CiWRKY87</i>	CiPaw.15G052500	IIId	320	34681.44	9.48	55.60	71.03	-0.503	nucleus
<i>CiWRKY88</i>	CiPaw.15G087700	IIc	163	18755.44	4.92	50.06	47.12	-1.133	nucleus
<i>CiWRKY89</i>	CiPaw.16G111300	I	517	56828.83	5.52	68.46	57.93	-0.969	nucleus