

附表 1 高等植物 *bZIP* 基因家族Table S1 The *bZIP* gene family in higher plants

种类 Class	物种 Species	基因名称 Gene name	分子质量 Molecular weight (kD)	等电点 Isoelectric point	基因数量 Genes number	参考文献 References
禾本科 Poaceae	二粒小麦 <i>Triticum turgidum</i>	<i>TdbZIP</i>	10.40-96.07	4.28-10.25	70	[1]
	黍子 <i>Panicum miliaceum</i>	<i>PmbZIP</i>	9.71-68.08	4.52-11.57	144	[2]
	珍珠粟 <i>Pennisetum glaucum</i>	<i>PgbZIP</i>	7.93-110.37	4.2-10.50	98	[3]
	小麦 <i>Triticum aestivum</i>	<i>TabZIP</i>	14.10-68.90	4.36-12.14	227	[4]
	甜叶菊 <i>Stevia rebaudiana</i>	<i>SrbZIP</i>	10.88-77.31	4.64-10.08	105	[5]
菊科 Asteraceae	青蒿 <i>Artemisia annua</i>	<i>AabZIP</i>	10.68-71.7	4.86-9.47	61	[6]
	月季 <i>Rosa chinensis</i>	<i>RcbZIP</i>	149.00-699.00	4.73-9.86	64	[7]
	黑树莓 <i>Rubus mesogaeus</i>	<i>RobZIP</i>	15.88-98.26	4.79-10.30	61	[8]
蔷薇科 Rosaceae	梅花 <i>Prunus mume</i>	<i>PmbZIP</i>	11.62-81.90	4.71-10.5	49	[9]
	核桃 <i>Juglans regia</i>	<i>JrbZIP</i>	16.37-84.52	4.85-10.5	88	[10]
胡桃科 Juglandaceae	番红花 <i>Carthamus tinctorius</i>	<i>CtbZIP</i>	11.98-86.19	5.04-9.78	52	[11]
鸢尾科 Iridaceae	花椒 <i>Zanthoxylum bungeanum</i>	<i>ZbbZIP</i>	12.11-79.48	4.75-10.69	275	[12]
	芸香科 Rutaceae	<i>PtbZIP</i>	15.71-105.11	4.75-9.95	56	[13]
	三叶橘 <i>Poncirus trifoliata</i>	<i>NtbZIP</i>	10.11-104.64	4.17-10.19	77	[14]
茄科 Solanaceae	烟草 <i>Nicotiana tabacum</i>	<i>LrbZIP</i>	17.67-93.15	5.00-9.95	63	[15]
	黑枸杞 <i>Lycium ruthenicum</i>	<i>CmbZIP</i>	16.07-122.10	4.62-9.76	59	[16]
	板栗 <i>Castanea mollissima</i>	<i>LjbZIP</i>	4.29-83.75	5.56-10.84	45	[17]
忍冬科 Caprifoliaceae	金银花 <i>Lonicera japonica</i>	<i>SmbZIP</i>	13.30-76.70	5.08-10.24	31	[18]
无患子科 Sapindaceae	无患子 <i>Sapindus mukorossi</i>	<i>DlbZIP</i>	10.57-177.87	4.93-10.18	51	[19]
	龙眼 <i>Pleurotus ostreatus</i>	<i>LcbZIP</i>	14.97-75.89	4.85-10.23	54	[20]
	荔枝 <i>Litchi chinensis</i>	<i>KobZIP</i>	12.86-82.73	4.70-10.31	63	[21]
红树科 Rhizophoraceae	秋茄 <i>Kandelia obovate</i>	<i>BhbZIP</i>	15.71-82.68	4.45-10.56	52	[22]
葫芦科 Cucurbitaceae	冬瓜 <i>Benincasa hispida</i>	<i>ZjbZIP</i>	14.67-82.15	4.65-9.96	45	[23]
鼠李科 Rhamnaceae	枣 <i>Zipziphus jujuba</i>	<i>AsbZIP</i>	9.24-64	4.89-11.24	64	[24]
石蒜科 Amaryllidaceae	大蒜 <i>Allium sativum</i>	<i>PgbZIP</i>	38.73-75.82	4.66-9.77	47	[25]
	桔梗 <i>Platycodon grandiflorus</i>	<i>VfbZIP</i>	13.15-61.71	5.37-10.57	18	[26]
	蚕豆 <i>Vicia faba</i>	<i>PSbZIP</i>	15.99-92.56	4.65-9.68	87	[27]
桔梗科 Campanulaceae	豌豆 <i>Pisum sativum</i>	<i>VabZIP</i>	9.44-61.21	4.76-11.56	72	[28]
	小豆 <i>Vigna Angularis</i>	<i>GhbZIP</i>	12.15-75.07	4.36-11.25	197	[29]
	锦葵科 Malvaceae	<i>LubZIP</i>	15.68-77.36	4.88-9.99	99	[30]
亚麻科 Linaceae	亚麻 <i>Linum usitatissimum</i>	<i>GubZIP</i>	15.68-85.39	4.97-10.16	66	[31]
豆科 Fabaceae	甘草 <i>Glycyrrhiza uralensis</i>	<i>EgbZIP</i>	14.17-75.42	4.99-10.82	97	[32]
棕榈科 Arecaceae	油棕 <i>Elaeis guineensis</i>					

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附表 2 *bZIP* 基因名称、来源及登录号

Supplementary Table 2 Name, resource, and gene identifier (ID) of the *bZIP* genes

物种	基因名称	基因号	物种	基因名称	基因号
Species	Gene name	Gene ID	Species	Gene name	Gene ID
拟南芥 <i>Arabidopsis thaliana</i>	<i>AtbZIP1</i>	AT5G49450		<i>AtbZIP40</i>	AT1G03970
	<i>AtbZIP2</i>	AT2G18160		<i>AtbZIP41</i>	AT4G36730
	<i>AtbZIP3</i>	AT5G15830		<i>AtbZIP42</i>	AT3G30530
	<i>AtbZIP4</i>	AT1G59530		<i>AtbZIP43</i>	AT5G38800
	<i>AtbZIP5</i>	AT3G49760		<i>AtbZIP44</i>	AT1G75390
	<i>AtbZIP6</i>	AT2G22850		<i>AtbZIP45</i>	AT3G12250

	<i>AtbZIP7</i>	AT4G37730	拟南芥 <i>Arabidopsis thaliana</i>	<i>AtbZIP46</i>	AT1G68640
	<i>AtbZIP8</i>	AT1G68880		<i>AtbZIP47</i>	AT5G65210
	<i>AtbZIP9</i>	AT5G24800		<i>AtbZIP48</i>	AT2G04038
	<i>AtbZIP10</i>	AT4G02640		<i>AtbZIP49</i>	AT3G56660
	<i>AtbZIP11</i>	AT4G34590		<i>AtbZIP50</i>	AT1G77920
	<i>AtbZIP12</i>	T2G41070		<i>AtbZIP51</i>	AT1G43700
	<i>AtbZIP13</i>	AT5G44080		<i>AtbZIP52</i>	AT1G06850
	<i>AtbZIP14</i>	AT4G35900		<i>AtbZIP53</i>	AT3G62420
	<i>AtbZIP15</i>	AT5G42910		<i>AtbZIP54</i>	AT4G01120
	<i>AtbZIP16</i>	AT2G35530		<i>AtbZIP55</i>	AT2G46270
	<i>AtbZIP17</i>	AT2G40950		<i>AtbZIP56</i>	AT5G11260
	<i>AtbZIP18</i>	AT2G40620		<i>AtbZIP57</i>	AT5G10030
	<i>AtbZIP19</i>	AT4G35040		<i>AtbZIP58</i>	AT1G13600
	<i>AtbZIP20</i>	AT5G06950		<i>AtbZIP59</i>	AT2G31370
	<i>AtbZIP21</i>	AT1G08320		<i>AtbZIP60</i>	AT1G42990
	<i>AtbZIP22</i>	AT1G22070		<i>AtbZIP61</i>	AT3G58120
	<i>AtbZIP23</i>	AT2G16770		<i>AtbZIP62</i>	AT1G19490
	<i>AtbZIP24</i>	AT3G51960		<i>AtbZIP63</i>	AT5G28770
	<i>AtbZIP25</i>	AT3G54620		<i>AtbZIP64</i>	AT3G17609
	<i>AtbZIP26</i>	AT5G06960		<i>AtbZIP65</i>	AT5G06839
	<i>AtbZIP27</i>	AT2G17770		<i>AtbZIP66</i>	AT3G56850
	<i>AtbZIP28</i>	AT3G10800		<i>AtbZIP67</i>	AT3G44460
	<i>AtbZIP29</i>	AT4G38900		<i>AtbZIP68</i>	AT1G32150
	<i>AtbZIP30</i>	AT2G21230		<i>AtbZIP69</i>	AT1G06070
	<i>AtbZIP31</i>	AT2G13150		<i>AtbZIP70</i>	AT5G60830
	<i>AtbZIP32</i>	AT2G12940		<i>AtbZIP71</i>	AT2G24340
	<i>AtbZIP33</i>	AT2G12900		<i>AtbZIP72</i>	AT5G07160
	<i>AtbZIP34</i>	AT2G42380		<i>AtbZIP74</i>	AT2G21235
	<i>AtbZIP35</i>	AT1G49720		<i>AtbZIP75</i>	AT5G08141
	<i>AtbZIP36</i>	AT1G45249		<i>AtbZIP76</i>	AT1G58110
	<i>AtbZIP37</i>	AT4G34000		<i>AtbZIP77</i>	AT1G35490
	<i>AtbZIP38</i>	AT3G19290		<i>AtbZIP78</i>	AT1G35490
甜菜 <i>Beta vulgaris</i>	<i>AtbZIP39</i>	AT2G36270	甜菜 <i>Beta vulgaris</i>	<i>AtbZIP79</i>	AT5G04840
	<i>BvbZIP1</i>	Bv1_001330_mfwa		<i>BvbZIP27</i>	Bv4_081830_goqc
	<i>BvbZIP2</i>	Bv1_003640_tkfj		<i>BvbZIP28</i>	Bv4_086160_cqyx
	<i>BvbZIP3</i>	Bv1_005070_wokp		<i>BvbZIP29</i>	Bv4_094850_mmmdf
	<i>BvbZIP4</i>	Bv1_006910_rqak		<i>BvbZIP30</i>	Bv5_107170_psah
	<i>BvbZIP5</i>	Bv1_006910_rqak		<i>BvbZIP31</i>	Bv5_121770_gprg
	<i>BvbZIP6</i>	Bv1_011670_nwdc		<i>BvbZIP32</i>	Bv6_128410_fmnu
	<i>BvbZIP7</i>	Bv1_013750_smoy		<i>BvbZIP33</i>	Bv6_129360_qxwi
	<i>BvbZIP8</i>	Bv1_014730_kwxxw.t1		<i>BvbZIP34</i>	Bv6_134230_aref
	<i>BvbZIP9</i>	Bv1_021380_gmre		<i>BvbZIP35</i>	Bv6_135660_ocpz
	<i>BvbZIP10</i>	Bv2_025990_gnmo		<i>BvbZIP36</i>	Bv6_140280_ckch

菠菜 <i>Spinacia oleracea</i>	<i>BvbZIP11</i>	Bv2_025990_gnmo	菠菜 <i>Spinacia oleracea</i>	<i>BvbZIP37</i>	Bv6_140290_joxm
	<i>BvbZIP12</i>	Bv2_035120_znqm		<i>BvbZIP38</i>	Bv7_159570_afnu
	<i>BvbZIP13</i>	Bv2_041830_atex		<i>BvbZIP39</i>	Bv7_159880_nyaj
	<i>BvbZIP14</i>	Bv2_042510_dwuo		<i>BvbZIP40</i>	Bv7_169340_mcdu
	<i>BvbZIP15</i>	Bv2_042860_ixzz		<i>BvbZIP41</i>	Bv7_175790_dsuf
	<i>BvbZIP16</i>	Bv2_042860_ixzz		<i>BvbZIP42</i>	Bv7_176150_dhtu.t1
	<i>BvbZIP17</i>	Bv3_052640_ymhm.t1		<i>BvbZIP43</i>	Bv7_176150_dhtu.t2
	<i>BvbZIP18</i>	Bv3_052640_ymhm.t1		<i>BvbZIP44</i>	Bv8_186270_jcpj
	<i>BvbZIP19</i>	Bv3_052640_ymhm.t3		<i>BvbZIP45</i>	Bv9_207080_uszh
	<i>BvbZIP20</i>	Bv3_053880_mpkc		<i>BvbZIP46</i>	Bv9_209240_nxdc
	<i>BvbZIP21</i>	Bv3_057700_ifwp		<i>BvbZIP47</i>	Bv9_214060_hwek
	<i>BvbZIP22</i>	Bv3_057700_ifwp		<i>BvbZIP48</i>	Bv9_221110_kzoy
	<i>BvbZIP23</i>	Bv3_062960_chhy		<i>BvbZIP49</i>	Bv9_224390_wsiw
	<i>BvbZIP24</i>	Bv3_063410_ixst		<i>BvbZIP50</i>	Bv_005360_xxys
	<i>BvbZIP25</i>	Bv3_064480_mwf		<i>BvbZIP51</i>	Bv_011410_ndfg
	<i>BvbZIP26</i>	Bv3_070510_azad		<i>BvbZIP52</i>	Bv_012640_iicn.t1
	<i>SobZIP1</i>	LOC110790332		<i>BvbZIP53</i>	Bv_012640_iicn.t2
	<i>SobZIP2</i>	LOC110791421		<i>SobZIP28</i>	LOC110796934
	<i>SobZIP3</i>	LOC110797555		<i>SobZIP29</i>	LOC110796936
	<i>SobZIP4</i>	LOC110783906		<i>SobZIP30</i>	LOC110797390
	<i>SobZIP5</i>	LOC110777068		<i>SobZIP31</i>	LOC110797701
	<i>SobZIP6</i>	LOC110779939		<i>SobZIP32</i>	LOC110797839
	<i>SobZIP7</i>	LOC110784681		<i>SobZIP33</i>	LOC110804885
	<i>SobZIP9</i>	LOC110784826		<i>SobZIP34</i>	LOC110791531
	<i>SobZIP10</i>	LOC110785151		<i>SobZIP35</i>	LOC110805171
	<i>SobZIP11</i>	LOC110786139		<i>SobZIP36</i>	LOC110791600
	<i>SobZIP13</i>	LOC110787215		<i>SobZIP37</i>	LOC110805644
	<i>SobZIP14</i>	LOC110787039		<i>SobZIP38</i>	LOC110805805
	<i>SobZIP15</i>	LOC110787025		<i>SobZIP39</i>	LOC110774937
	<i>SobZIP16</i>	LOC110787588		<i>SobZIP41</i>	LOC110775112
	<i>SobZIP17</i>	LOC110794990		<i>SobZIP42</i>	LOC110800189
	<i>SobZIP18</i>	LOC110787717		<i>SobZIP43</i>	LOC110793657
	<i>SobZIP19</i>	LOC110795200		<i>SobZIP44</i>	LOC110775440
	<i>SobZIP20</i>	LOC110801746		<i>SobZIP45</i>	LOC110800298
	<i>SobZIP21</i>	LOC110789123		<i>SobZIP46</i>	LOC110800466
	<i>SobZIP22</i>	LOC110802272		<i>SobZIP47</i>	LOC110793874
	<i>SobZIP23</i>	LOC110795989		<i>SobZIP48</i>	LOC110800711
	<i>SobZIP24</i>	LOC110796393		<i>SobZIP49</i>	LOC110794012
	<i>SobZIP25</i>	LOC110802935		<i>SobZIP50</i>	LOC110777315
	<i>SobZIP26</i>	LOC110792423		<i>SobZIP51</i>	LOC110777732
	<i>SobZIP27</i>	LOC110803594		<i>SobZIP52</i>	LOC110779820
				<i>SobZIP53</i>	LOC110780112