

附表 1 猕猴桃 BBX 基因家族基本信息

Table 1 Basic information of *Actinidia chinensis* BBX gene family

基因名 Gene name	基因 ID Gene ID	氨基酸 长度 Amino acids length /aa	编码 区序 列长 度 CDS /bp	蛋白分 子量 Molecu lar weight	蛋白 等电 点 Theo retica l pI	亲水性 平均指 数 GRAV Y	不稳定 系数 Instabil ity index	脂肪系 数 Aliphat ic index	亚细胞定位预测 Subcellular localization prediction
<i>AcBBX1</i>	CEY00_Acc0 0300	240	723	26499.8 3	4.91	-0.396	48.06	70.83	nucl: 13, plas: 1
<i>AcBBX2</i>	CEY00_Acc0 2517	446	1341	49732.7	5.71	-0.602	39.44	60.56	nucl: 7, chlo: 6, cyto: 1
<i>AcBBX3</i>	CEY00_Acc0 2264	377	1134	41974.8 6	5.79	-0.571	42.6	64.46	nucl: 11, chlo: 1, plas: 1, vacu: 1
<i>AcBBX4</i>	CEY00_Acc0 4028	384	1155	42642.7 2	6.16	-0.545	40.47	65.81	chlo: 7, nucl: 4, cyto: 2, plas: 1
<i>AcBBX5</i>	CEY00_Acc0 7082	273	822	30208.0 2	6.5	-0.419	54.56	68.68	nucl: 14
<i>AcBBX6</i>	CEY00_Acc0 7095	210	633	23363.6 1	6.17	-0.473	56.26	73.33	cyto: 7, chlo: 4, nucl: 2, cysk: 1
<i>AcBBX7</i>	CEY00_Acc0 7295	212	639	23222.3 6	5.74	-0.374	42.7	75.9	cyto: 11, cysk: 1.5, cysk_plas: 1.5, nucl: 1
<i>AcBBX8</i>	CEY00_Acc0 8292	479	1440	52715.8 1	6.2	-0.633	40.47	62.53	nucl: 11, cyto: 2, cysk: 1
<i>AcBBX9</i>	CEY00_Acc0 7299	274	825	30034.6 4	5.25	-0.41	51.18	71.57	nucl: 9, cyto: 2, chlo: 1, extr: 1, vacu: 1
<i>AcBBX10</i>	CEY00_Acc0 9657	164	495	17642.7	4.27	-0.864	62.44	48.11	cyto: 6, nucl: 5, chlo: 2, mito: 1
<i>AcBBX11</i>	CEY00_Acc0 8947	240	723	26425.9 4	5	-0.342	46.07	73.71	nucl: 13, plas: 1
<i>AcBBX12</i>	CEY00_Acc1 0739	241	726	26809.0 6	6.55	-0.49	62.74	66.06	nucl: 11, cyto: 2, chlo: 1
<i>AcBBX13</i>	CEY00_Acc1 0014	342	1029	37370.7 8	6.01	-0.418	45.58	71.64	chlo: 10, nucl: 2, cyto: 2
<i>AcBBX14</i>	CEY00_Acc1 0756	210	633	23125.2 1	5.97	-0.517	51	67.33	cyto: 5, chlo: 4, nucl: 2, cysk: 1.5, cysk_plas: 1.5, vacu: 1
<i>AcBBX15</i>	CEY00_Acc1 1140	212	639	23089.1 2	5.56	-0.393	44.07	74.48	cyto: 12, chlo: 1, cysk: 1
<i>AcBBX16</i>	CEY00_Acc1 1134	321	966	36233.1 6	6.31	-0.396	54.13	75.39	nucl: 10, mito: 2, cyto: 1, plas: 1
<i>AcBBX17</i>	CEY00_Acc1 2707	285	858	31255.2 7	6.69	-0.389	46.32	76.67	nucl: 7, cyto: 4, extr: 1, vacu: 1, cysk: 1

<i>AcBBX1</i>	CEY00_Acc1	276	831	30066.4	4.49	-0.875	49.15	55.14	nucl: 10, chlo: 4
8	3752			7					
<i>AcBBX1</i>	CEY00_Acc1	432	1299	47050	5.25	-0.399	56.92	64.4	nucl: 11, mito: 2, cyto: 1
9	3532								
<i>AcBBX2</i>	CEY00_Acc1	406	1221	44256.2	5.53	-0.575	52.35	56.23	nucl: 13, cyto: 1
0	3564			8					
<i>AcBBX2</i>	CEY00_Acc1	126	381	14283.5	8.81	-0.187	37.73	77.46	chlo: 5, mito: 4, nucl: 2.5, nucl_plas: 2.5, plas: 1.5, cyto: 1
1	4999			6					
<i>AcBBX2</i>	CEY00_Acc1	395	1188	43746.2	6.56	-0.483	52.56	65.72	nucl: 9, cyto: 4, mito: 1
2	4998			6					
<i>AcBBX2</i>	CEY00_Acc1	515	1548	57905.8	6.17	-0.627	46.43	65.15	nucl: 13, mito: 1
3	4054			4					
<i>AcBBX2</i>	CEY00_Acc1	275	828	29726.9	4.34	-0.706	49.41	60.29	nucl: 11, plas: 2, chlo: 1
4	5006			1					
<i>AcBBX2</i>	CEY00_Acc1	479	1440	52317.5	6.16	-0.564	38.23	62.73	nucl: 11, cyto: 2, cysk: 1
5	6304								
<i>AcBBX2</i>	CEY00_Acc1	162	489	17495.6	4.1	-0.781	47.88	55.37	nucl: 9, chlo: 4, extr: 1
6	7400			4					
<i>AcBBX2</i>	CEY00_Acc1	361	1086	39496.7	6.71	-0.304	44.01	66.18	chlo: 8, cyto: 5, extr: 1
7	8595			3					
<i>AcBBX2</i>	CEY00_Acc1	262	789	28253.5	4.39	-0.78	58.29	52.9	chlo: 7, nucl: 6, mito: 1
8	9458			4					
<i>AcBBX2</i>	CEY00_Acc1	384	1155	43005.9	5.65	-0.636	52.09	67.6	nucl: 12, cyto: 2
9	9613			5					
<i>AcBBX3</i>	CEY00_Acc1	294	885	31517.3	5.91	-0.356	50.15	66.09	nucl: 14
0	9231			5					
<i>AcBBX3</i>	CEY00_Acc1	259	780	27841.6	4.15	-0.855	67.49	49.38	chlo: 7, nucl: 6, mito: 1
1	9046			4					
<i>AcBBX3</i>	CEY00_Acc1	410	1233	44650.7	5.65	-0.554	52.85	55.95	nucl: 13, cyto: 1
2	9175								
<i>AcBBX3</i>	CEY00_Acc1	128	387	14172.0	7.53	-0.314	48.81	67.11	nucl: 7, chlo: 3, cyto: 2, plas: 1, extr: 1
3	9067			9					
<i>AcBBX3</i>	CEY00_Acc2	360	1083	38999.9	5.68	-0.286	46.26	65.92	chlo: 6, cyto: 4, nucl: 2, mito: 2
4	0147			3					
<i>AcBBX3</i>	CEY00_Acc2	339	1020	36937.4	6.98	-0.404	45.38	70	chlo: 13, cyto: 1
5	2408			8					
<i>AcBBX3</i>	CEY00_Acc2	421	1266	46538.1	5.64	-0.645	48.12	63.94	chlo: 6, mito: 4, nucl: 2, cyto: 2
6	6605			1					
<i>AcBBX3</i>	CEY00_Acc2	411	1236	45327.6	5.1	-0.446	57.85	61.9	nucl: 12, cyto: 2
7	6509			7					
<i>AcBBX3</i>	CEY00_Acc2	176	531	19739.1	4.36	-0.981	55.96	49.83	nucl: 7, chlo: 3, cyto: 3, mito: 1
8	6062			4					

<i>AcBBX3</i>	CEY00_Acc2	269	810	29245.6	9.12	-0.157	66.56	82.68	nucl: 10, chlo: 1, cyto: 1,
9	2376			6					plas: 1, E.R._vacu: 1
<i>AcBBX4</i>	CEY00_Acc2	415	1248	45654.1	5.88	-0.522	55.12	58.75	nucl: 14
0	6483			2					
<i>AcBBX4</i>	CEY00_Acc2	269	810	29353.9	9.75	-0.109	65.3	86.99	nucl: 4, cyto: 4, chlo: 2,
1	7044			1					plas: 2, cysk: 1, E.R._vacu: 1
<i>AcBBX4</i>	CEY00_Acc2	411	1236	46356.9	6.03	-0.828	52.23	57.42	nucl: 7, chlo: 4, mito: 2,
2	8509			1					cysk: 1
<i>AcBBX4</i>	CEY00_Acc3	423	1272	47787.7	5.84	-0.731	45.58	66.6	nucl: 5, chlo: 4, mito: 3,
3	1305								cyto: 1, plas: 1
<i>AcBBX4</i>	CEY00_Acc3	388	1167	43352.3	5.4	-0.613	53.11	65.59	nucl: 11, cyto: 2, plas: 1
4	1665			4					
<i>AcBBX4</i>	CEY00_Acc1	279	840	30776.5	6.13	-0.391	48.99	73.8	nucl: 12, plas: 1, extr: 1
5	1855			9					
<i>AcBBX4</i>	CEY00_Acc3	504	1515	56942.6	5.51	-0.591	46.82	67.68	nucl: 11, cyto: 2, mito: 1
6	2928			5					
<i>AcBBX4</i>	CEY00_Acc2	425	1278	47153.7	5.38	-0.72	51.03	62.92	mito: 7, chlo: 5, nucl: 1,
7	1847								cyto: 1
<i>AcBBX4</i>	CEY00_Acc3	399	1200	44804.5	7.57	-0.717	50.94	62.58	nucl: 7, chlo: 3, mito: 2,
8	2914			3					cyto: 1, cysk: 1

nucl: 细胞核; chlo: 叶绿体; cyto: 细胞质; mito: 线粒体; plas: 质膜; vacu: 液泡; cysk: 细胞骨架; extr: 细胞外基质或细胞壁; E.R.: 内质网

Note: nucl: nucleus; chlo: the chloroplast; cyto: cytoplasm; mito: the mitochondria; plas: plasma membrane; vacu: vacuole; cysk: cytoskeleton; extr: extracellular matrix or cell wall; E.R.: endoplasmic reticulum