

谷子 *SiGeBP* 基因家族生物信息学及表达分析

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Bioinformatic and Expression Analysis of the *SiGeBP* Gene Family in *Setaria italica*

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附表 1 试验所用引物序列

Table S1 Primers used in the experiment

基因编号 Gene ID	正向引物 Forward primer (5'-3')	反向引物 Reverse primer (5'-3')
<i>SiGeBP-1</i>	GCCTCGATAGGAAGAAGCTGC	TCTTTACTTGGCACAATGCCT
<i>SiGeBP-2</i>	GGCAAGGTACACAGCCAGATTAG	ATTCCTTGACGGGTGAACAAC
<i>SiGeBP-4</i>	GCGGTTGAAGAGCAAGTTCC	TGCATCCGGTACACCACTTC
<i>SiGeBP-6</i>	CCAGTCATGTACCTCAATCAG	CTCCATTCTCCCCTTCCATG
<i>SiGeBP-8</i>	GTCGCTGGAGAAGGGTTTAG	GCCATAGACCTCTTTTCCAG
<i>SiGeBP-9</i>	GACCATCCTCTCGCCATTG	CCCAAAACCAAGACCAAGAATG
<i>SiGeBP-10</i>	CCTGAAGACGAGATCACCAT	CTGACCACTAATCTGGCTGT
<i>SiGeBP-13</i>	AAGGACAGTAAGGACGCAATC	GGGTATATCTCACGCATCTCTG
<i>actin</i>	GGTATGGAGTCGCCTGGAATCC	GCGGTCAGCAATACCAGGGAAC

附表 2 谷子 *SiGeBP* 基因家族成员信息及蛋白理化性质Table S2 Information of *SiGeBP* gene family members and physicochemical properties of encoded protein

基因 ID Gene ID	重命名 Rename	氨基酸数目 Number of amino acids	理论等电点 Theoretical pI	相对分子质量/Da Molecular weight/Da	不稳定系数 Instability index	脂肪系数 Aliphatic index	总平均亲水性 Grand average of hydropathicity	亚细胞定位 Subcellular localization
SETIT_016765mg	<i>SiGeBP-1</i>	573	8.62	61439.98	50.1	50.92	-1.186	细胞核 Nucleus
SETIT_020045mg	<i>SiGeBP-2</i>	475	10.31	52300.74	73.81	48.23	-1.179	细胞核 Nucleus
SETIT_017003mg	<i>SiGeBP-3</i>	497	6.88	53211.16	58.19	64.1	-0.713	细胞核 Nucleus
SETIT_017925mg	<i>SiGeBP-4</i>	299	9.87	32652.93	70.7	63.44	-0.703	细胞核 Nucleus
SETIT_017797mg	<i>SiGeBP-5</i>	323	4.73	35304.82	77.7	60	-1.042	叶绿体 Chloroplast
SETIT_030239mg	<i>SiGeBP-6</i>	369	5.67	40032.86	72.37	66.42	-0.624	细胞核 Nucleus
SETIT_024669mg	<i>SiGeBP-7</i>	335	9.39	37655.71	52.32	54	-1.124	细胞核 Nucleus
SETIT_006601mg	<i>SiGeBP-8</i>	396	10.29	43027.5	60.06	65.71	-0.727	细胞核 Nucleus 线粒体 Mitochondrion
SETIT_005179mg	<i>SiGeBP-9</i>	406	5.11	42522.56	66.52	75.96	-0.301	细胞核 Nucleus
SETIT_013598mg	<i>SiGeBP-10</i>	503	10.21	54900.5	71.11	48.49	-1.144	细胞核 Nucleus
SETIT_0138961mg	<i>SiGeBP-11</i>	358	9.35	39940.64	45.47	66.03	-0.919	细胞核 Nucleus
SETIT_012012mg	<i>SiGeBP-12</i>	507	6.47	54942.98	61.27	58.7	-0.999	细胞核 Nucleus
SETIT_012370mg	<i>SiGeBP-13</i>	316	10.13	35146.03	61.16	76.39	-0.651	叶绿体 Chloroplast
SETIT_012480mg	<i>SiGeBP-14</i>	240	11.11	26129.04	80.93	57.04	-0.945	叶绿体 Chloroplast
SETIT_012600mg	<i>SiGeBP-15</i>	256	6.05	27502.44	47.63	82.42	-0.331	叶绿体 Chloroplast
SETIT_036257mg	<i>SiGeBP-16</i>	370	6.4	39406.88	69.28	67.11	-0.585	叶绿体 Chloroplast