

**Table S2.** *PtGASA* genes primer.

Gene ID	Forward primer (Reverse primer)	Primer Sequence
<i>PtGASA01</i>	F	GGGCCACTCAAGGCAGTCTTC
<i>PtGASA01</i>	R	CGGGAGGCACACACAAGCAC
<i>PtGASA02</i>	F	ATACGAGGTGCGCAAACGCT
<i>PtGASA02</i>	R	AGGGCACTCGTGCTTGTTCC
<i>PtGASA03</i>	F	GATTGCCCAGAAGCCTGCGA
<i>PtGASA03</i>	R	GGCACTTGGGTTTGCCCTCTT
<i>PtGASA04</i>	F	CATCTCCAGCACCGCCAGTC
<i>PtGASA04</i>	R	GCTTCACGGGAGGCACAGG
<i>PtGASA05</i>	F	GCAAGTCCAGCTGCAGGTTCT
<i>PtGASA05</i>	R	GGTGGCATAGCAAGGGCAAGT
<i>PtGASA06</i>	F	CACGCCTGTGCAAGAGAGCA
<i>PtGASA06</i>	R	TCTGCCGCCATGGGTAGTCA
<i>PtGASA07</i>	F	ATCGACTGTGGTGGCGCTTG
<i>PtGASA07</i>	R	ACACTTGCGTCTGCCTCCAC
<i>PtGASA08</i>	F	CACCGAGCGTGTGGTACCTG
<i>PtGASA08</i>	R	TGCTGGCCATGGTGAGTTGTC
<i>PtGASA09</i>	F	CGAGGCGAGGTGCCAGTTATC
<i>PtGASA09</i>	R	CCGTTCTGGAGGCACACAG
<i>PtGASA10</i>	F	AAGAGTGCGGACCTCGTTGC
<i>PtGASA10</i>	R	GGCACACACAAGCACTTGGC
<i>PtGASA11</i>	F	GTGCAAGGCTAGGTGTGCCA
<i>PtGASA11</i>	R	GGGCATTTGGAGGTGCCCTT
<i>PtGASA12</i>	F	GCGCAAACGCTGGCATAACAG
<i>PtGASA12</i>	R	GGGCACTCATGCTTGTTCCCA
<i>PtGASA13</i>	F	TGCAAGCAGAGATGCAGTCTTCAC
<i>PtGASA13</i>	R	CCTGAGGTCCCAGGAGGCA
<i>PtGASA14</i>	F	GCATAAGGGCTTGCAACACATGC
<i>PtGASA14</i>	R	GCATAGCAAGGGCAGGTATCTTCG
<i>PtGASA15</i>	F	AGTGCTCAGTGAGGTGCTCCA
<i>PtGASA15</i>	R	AGGGCACTCGTGCTTGTTCC
<i>PtGASA16</i>	F	GTGGAAACAGGAGGCTCATGCAA
<i>PtGASA16</i>	R	GCGGCACACACTTGACCTT
<i>PtGASA17</i>	F	TGGACCTGGGAGTCTCAAGAGC
<i>PtGASA17</i>	R	ACGCAGAGGCACTTCTTGACAG
<i>PtGASA18</i>	F	CCGCTGCTCAGCAACATCACA
<i>PtGASA18</i>	R	AGGGCATGTTTCCTTGTTGCCAT
<i>PtGASA19</i>	F	GCTGCAACAGATGCCGGTGT
<i>PtGASA19</i>	R	CCATGGGTCCTAAGGCTTGACATAACAT