

**Supplementary Data****In silico analysis for gene content in rice genomic regions mapped for the gall midge resistance genes**Arun Kumar Yasala<sup>1#</sup>, Nidhi Rawat<sup>1#</sup>, V. S. Arun Kumar Sama<sup>1,2</sup>, Kudapa Himabindu<sup>1,2</sup>, R. M. Sundaram<sup>1</sup>, J. S. Bentur<sup>1\*</sup>**Supplementary Table.** List of designed primer pairs for amplification of key genes

Gene encoding	Gene region	Gene locus ID	Primer sequence	Tm	Amplicon size
NBS-LRR class resistance protein	<i>Gm2367</i>	LOC_Os04g53030.1	F1: ATGGAATGCTGCCACTAAGC	60.24	284
			R1: TCAGTCGTCTGTTGCTGACC	60.03	
		LOC_Os04g53000.1	F2: ACTCCCTCCAACACTTGACG	60.15	220
			R2: TCCGGCAAACGTAAGATAACC	59.96	
		LOC_Os04g53060.1	F: CTTCTGACATCCCTCGAACG	60.79	222
			R: CTCCGTTGCTACCATTCTGC	60.8	
		LOC_Os04g53160.1	F1: AAAGGATGAGCAGGTGAACG	60.25	257
	R1: TGAGGTTGCAGAGTGATTGC		59.99		
	<i>Gm8</i>	LOC_Os04g53160.1	F2: ACAGTGCCCTGTTCTGAAGG	60.3	220
			R2: TAATGTTCCGTGGGATGACC	60.58	
		LOC_Os04g52630.1	F1: AGGCTGAATGTTCCACAAGG	60.11	296
			R1: TTGAGCGAGAGCTGTCTTCC	60.82	
		LOC_Os04g52630.1	F2: CGCTTCAGCTCCTATTGTCC	59.98	241
			R2: TTGACATTCAGCTTGCTTGC	60.14	
LOC_Os04g52630.1		F: TGTCCAAGTAGCTGGTGTCTG	59.9	239	
	R: CGAGAACAACAACCCTCTGG	60.68			
LOC_Os08g14830.1		F1: CACTCACTCCCGCTAAGAGC	60.16	226	
		R1: CATGTGCTTATGGCAGTTGG	60.13		
		F2: CTGTGAGATTGCAGGTGTGC	60.47		259
		R2: ACGGGATCGGAAAGACTACC	60.33		

		LOC_Os08g14810.1	F1: TGAGACCATGTCGAGTGAGC R1: CGAGCATGTCCAAAAGATCC F2: ATCCGTTCCAGTTGATCTGC R2: ATGTGAGACCCTTGGAGAGG	59.99 60.6 60.08 59.1	289  193
	<i>Gm11</i>	LOC_Os12g40860.1	F: TCAGATCTTTCTTCCCTTTCG R: CAGGTACGACCCAGACTATCC	58.51 58.54	213
No apical meristem protein	<i>Gm2367</i>	LOC_Os04g52810.1	F1: CTCCAGCCAAGATGGAACC R1: CACCAAGGGCAGTAGTCTCC F2: GCTCTCCCTTGGTAGAACACC R2: TTGCACAATCTGATCATCTTCC	60.61 59.72 60.12 60.08	298  290
	<i>Gm4</i>	LOC_Os08g10080.1	F: CTGATGGCCTTCTTCTCTGC R: ACTGCCCAATGAGCTAGACC	60.1 59.31	219
	<i>Gm11</i>	LOC_Os12g41680.1	F: CCAAGTCAAGAAGCCTCACC R: TGTGACAATTGGCAGGTAGC	59.84 59.72	272
SET domain Containing protein	<i>Gm1</i>	LOC_Os09g13740.1	F: ACGTCGATGCCACAAACG R: CAAACTGTGCGAAAAATGCTTGG	61.76 61.86	152
	<i>Gm8</i>	LOC_Os08g14660.1	F: ATCTTCCATGTTCTGGTTTCG R: TCGGGCCATTATCTACAAGG	59.04 59.92	203
Pentatricopeptide (PPR) repeat containing protein	<i>Gm2367</i>	LOC_Os04g52725.1	F: CAAGATGTACGGCAATGTGG R: TCGGCATCTCATAACAACAGC	59.99 59.83	275
		LOC_Os04g52290.1	F: GCACCACCCCATAGTAGAGC R: TATCTGGAAGGTCGCCTACG	59.58 60.23	170
	<i>Gm4</i>	LOC_Os08g09270.1	F1: TTGGAAATGCTGTCATCTGG R1: GCCTCGACTTTACCATTTTCG F2: AAGGATGCTGCTGATGAAGC R2: CCAGGTTCCATTTCTTGAGC	59.65 59.71 60.51 59.67	292  178
	<i>Gm8</i>	LOC_Os08g15000.1	F: GTCGTACAGCACCATCATCG R: TCCATGGCCTTATCCATAGC	60.14 59.88	165
Proline rich protein	<i>Gm2367</i>	LOC_Os04g52504.1	F: CAGAAGCACATGTCGAGCAG R: CGACTACGGCGGGTATCAG	60.77 61.6	254
	<i>Gm8</i>	LOC_Os08g15080.1	F1: CTGCTCCCCCATATCATCC R1: ACAGGAGCATAGGCAGTTGG	60.25 60.28	254

			F2: AACGATCCACCCGTTCCA	62.34	199
			R2: GAGCCCCGTGATGAAGATG	61.6	
Disease resistance <i>RPP13</i> -like protein	<i>Gm2367</i>	LOC_Os04g53050.1	F: TCTGAAAATGAATGCGATGG	59.62	232
			R: GGGTAAGTGAAGTGGCAAGC	59.74	
Disease resistance protein <i>RPM1</i>	<i>Gm4</i>	LOC_Os08g09430.1	F: CCTGCTTGAGGCTTGTAAGG	60.01	236
			R: GAAGAGCCTGGAGTTGTTCG	59.99	
	<i>Gm8</i>	LOC_Os08g14800.1	F: TTCTGGTGAGCTCCAGTACG	59.03	193
			R: CTTTACTTGAGGGCGAATGG	59.7	
Resistance protein	<i>Gm8</i>	LOC_Os08g14850.1	F1: ATCTCAGTGTGGGGAACAGG	59.96	295
			R1: TGGTAACGTCCTCCAAGACC	59.97	
			F2: CATGAACGGGAGAAAAGTGG	60.49	288
			R2: ATTCAATTCCGAATGCAAGC	60.05	
			F3: TCGAGATTGTGTGCAACTCC	59.84	213
			R3: CGTTTTTCGTTGCCTTTAAGC	59.89	
Disease resistance protein	<i>Gm11</i>	LOC_Os12g39620.3	F: CTGGTTCCAGATGAGCTTCC	59.8	287
			R: TGTTGGTCAGCTCACAGAGG	60.02	

F-forward primer, R-reverse primer, T<sub>m</sub>-melting temperature of primer