Table 1: List of primers

S.No.	Primer Name	Sequence (5'-3')	Application
1	ALR2_F	ATGTCTGACCACGACGAACACG	*ALR2* ORF Forward primer
2	ALR2_R	TAAGCTTCCTCGCAGTGCAAAG	*ALR2* ORF Reverse primer
3	PMoMNR2_F (NdeI)	CAACATATGGAGCGCCCAGTCTGGTGGC	*MNR2* CorA domain Forward
4	PMoMNR2_R (KpnI)	ACCGGTACCTTCCCATACAATTTCTTGACTAGC	*MNR2* CorA domain Reverse
5	MNR2_F	ATGGAGGCTTCCAGTTGCCAC	*MNR2* ORF Forward primer
6	MNR2_R	TAGCCCATACAATTTCTTGAC	*MNR2* ORF Reverse primer
7	qMAC1_F	AGGATTGACGATGATTTGAACC	*MoMAC1* qPCR Forward primer
8	qMAC1_R	GGCGAGGTCCCTTCGATAG	*MoMAC1* qPCR Reverse primer
9	siRNA ALR2_F	AAGAGCTCTCCCATCACGC	*MoALR2* 5'UTR Forward primer
10	siRNA ALR2_R	GAATAGAATTCTTTCAGGGGTC	*MoALR2* 5'UTR Reverse primer
11	MNR2 Up_F	GAGAGGGCGGGGCATTTTGC	*MNR2* 5' flank Forward primer
12	MNR2 Up_R	CTCCTTCAATATCAGTTAACGTCCGGTGAGTTCTCTTG CGCCG	*MNR2* 5' flank Reverse primer
13	MNR2 Dn_F	GAAAATTCCGTCACCAGCCCTGGCGGATTGGATCTCTT ACGCC	*MNR2* 3' flank Forward primer
14	MNR2 Dn_R	GGAAGCTTGAGTGAGCATGG	*MNR2* 3' flank Reverse primer
15	MNR2 Nest_F	CTCAGCCCAAAAATCATCAGC	Nested Forward primer for *MNR2*
16	MNR2 Nest_R	TGTTTCAAAAATGCCTTCCCACC	Nested Reverse primer for *MNR2*
17	TrpCP_F (KpnI)	AGCGGTACCGACGTTAACTGATATTGAAG	5' TrpC Promoter Amplification
18	TrpCT_R (BamHI)	TCAGGATCCAACCCAGGGCAGGTGACGGA	3' TrpC Terminator Amplification
19	HPT 500bp_F	ATGTCCTGCGGGTAAATAGC	hygromycin cassette Forward
20	HPT 500bp_R	TGTTATGCGGCCATTGTCCG	hygromycin cassette Reverse
21	MGG_06358_F	CTTCTCCCTCGGTCTCAGTTC	*MoABP1* qPCR Forward primer
22	MGG_06358_R	CTTGGTCGGCAAAGGTACGA	*MoABP1* qPCR Reverse primer
23	MGG_06358_M	CCGCACCGCCTCCAGT	Taqman Probe for *MoABP1*
24	MGG_04116_F	CCATCTCAATCCGCCCAATCTC	*MoMTI1* qPCR Forward primer
25	MGG_04116_R	CGACTTCACACCTGCAATTGGA	*MoMTI1* qPCR Reverse primer
26	MGG_04116_M	CTCGTCCGCCTATGCC	Taqman Probe for *MoMTI1*
27	MGG_05133_F	TCCTCCGAGGCCTTTCCT	*MoCRZ1* qPCR Forward primer
28	MGG_05133_R	GCGCATAATCGATGTTGATTGTCG	*MoCRZ1* qPCR Reverse primer
29	MGG_05133_M	ATCTGCGCCAAGCCAT	Taqman Probe for *MoCRZ1*
30	MGG_00865_F	CATCGACCACGTTCAGAAGCT	*MoFKS1* qPCR Forward primer
31	MGG_00865_R	GAACGTGGGAGCCCTAAGAG	*MoFKS1* qPCR Reverse primer
32	MGG_00865_M	TCCGCTTGCCCTCCTG	Taqman Probe for *MoFKS1*
33	MGG_01802_F	TGCGTTCGGATACGTTAGTGT	*MoCHS1* qPCR Forward primer
34	MGG_01802_R	GCACGGAAGCGGTATGC	*MoCHS1* qPCR Reverse primer
35	MGG_01802_M	TTGCCCGGTGCTTTC	Taqman Probe for *MoCHS1*
36	MGG_09962_F	CAGGCCTCAGGTGGTTACATG	*MoCHS4* qPCR Forward primer
37	MGG_09962_R	TTGTGCGACTCTCGTTGGT	*MoCHS4* qPCR Reverse primer
38	MGG_09962_M	CCCAGCTCCACAGCCT	Taqman Probe for *MoCHS4*
39	MGG_04943_F	CGATTGATGTATGGTCGGTTGGAT	*MoSPM1* qPCR Forward primer
40	MGG_04943_R	CGTAATCGCGACCCTTGAAGAA	*MoSPM1* qPCR Reverse primer
41	MGG_04943_M	CTCTGCCAAAATGC	Taqman Probe for *MoSPM1*
42	MGG_06482_F	ACGGTATTCGCCTTAAAGGTGATC	*MoMKK1* qPCR Forward primer
43	MGG_06482_R	CGCATGATCTGCTTCTTCACATC	*MoMKK1* qPCR Reverse primer
44	MGG_06482_M	CCAACCCAGACCCC	Taqman Probe for *MoMKK1*
45	MGG_00883_F	GACAGGCCAAAGAAGGGTTCA	*MoMAPK3* qPCR Forward primer
46	MGG_00883_R	GAGGTACACGCTGAGAGGGATA	*MoMAPK3* qPCR Reverse primer
47	MGG_00883_M	ACCGTCCATACTTCCC	Taqman Probe for *MoMAPK3*
48	MGG_08843_F	CTTGATTCTTCCTGGCGAGGATAT	*MoALR2* qPCR Forward primer
49	MGG_08843_R	TCGGCTGTTGGGTTGCT	*MoALR2* qPCR Reverse primer
50	MGG_08843_M	TCGAGCCACCAGACTC	Taqman Probe for *MoALR2*
51	MGG_09884_F	CCGAGTCCGACAATGATGATATGAC	*MoMNR2* qPCR Forward primer
52	MGG_09884_R	TGGATTGAAGGAGGTACTGAAGTCT	*MoMNR2* qPCR Reverse primer
53	MGG_09884_M	CCGTCAACCAACTCC	Taqman Probe for *MoMNR2*
54	MGG_07176_F	GACTCTCACGTTATCCTGATTTGCT	*MoRHO1* qPCR Forward primer
55	MGG_07176_R	CCACTTCTCTTGGACGTTGTCAA	*MoRHO1* qPCR Reverse primer
56	MGG_07176_M	TCGCCATCGACTCTCC	Taqman Probe for *MoRHO1*
57	MGG_03147_F	TCCTCCCGGGCTTCTACAG	*MoGPDH* qPCR Forward primer
58	MGG_03147_R	CTGAGGTCTGCGGGTCAA	*MoGPDH* qPCR Reverse primer
59	MGG_03147_M	TCAGGCCCATGTTTGC	Taqman Probe for *MoGPDH*

60	MGG_10315_F	CAACAGCAAGGAGCTTAAGAACTC	*MoMPG1* qPCR Forward primer
61	MGG_10315_R	GCCGCTGAGAACGTCGAT	*MoMPG1* qPCR Reverse primer
62	MGG_10315_M	TCGGCACCAGACTTG	Taqman Probe for *MoMPG1*
63	MGG_01173_F	GCTGTGCGACCGACATC	*MoMPG2* qPCR Forward primer
64	MGG_01173_R	GAGGGCTGGCCACAGT	*MoMPG2* qPCR Reverse primer
65	MGG_01173_M	TCGGCCTCGCCAACCT	Taqman Probe for *MoMPG2*
66	02763 UP (F)	CGGTGAGGAAGATGTCGACC	Mgg_02763 5’ flank Forward primer
67	02763 UP (R)	CTCCTTCAATATCAGTTAACGTCCAACAAAAGAATGC GACTCCG	Mgg_02763 5’ flank Reverse primer
68	02763 DN (F)	GAAAATTCCGTCACCAGCCCTGGGACACCAGAGATCA CCCATG	Mgg_02763 3’ flank Forward primer
69	02763 DN (R)	GTCGGGTGGGATGTTTAGGC	Mgg_02763 3’ flank Reverse primer
70	02763 Nest (F)	GTAAAGTTTCTTGTGTGAGGAG	Nested Forward primer for Mgg_02763
71	02763 Nest (R)	CTCCGTGCGTCATTTTTG TC	Nested Reverse primer for Mgg_02763
72	06582 UP (F)	TCGCCCAGCTCTTGAACGTC	Mgg_06582 5’ flank Forward primer
73	06582 UP (R)	CTCCTTCAATATCAGTTAACGTCGACCTTTGCCAAAGC ATGAG	Mgg_06582 5’ flank Reverse primer
74	06582 DN (F)	GAAAATTCCGTCACCAGCCCTGGGTACGGCTTCTCGAT GTAAC	Mgg_06582 3’ flank Forward primer
75	06582 DN (R)	CTGCAAACTACTCGGCAAGG	Mgg_06582 3’ flank Reverse primer
76	06582 Nest (F)	GAATAGTAGCTACTGAACAGC	Nested Forward primer for Mgg_06582
78	06582 Nest (R)	ATCATTGTAGGGAACTGCTTC	Nested Reverse primer for Mgg_06582
79	ALR2 Prom F	CAAACTAGTTTGGACCTCCTCCCAGTTCAC	*ALR2* 5’ flank Forward primer
80	FusnALR2 Loc (R)	GCTCCTCGCCCTTGCTCACCATTAAGCTTCCTCGCAGT GCAAAG	*ALR2* 5’ flank Reverse primer
81	3’UTRALR2 (F)	GAAAATTCCGTCACCAGCCCTGGTTTATATATCATGGG GCGGCG	*ALR2* 3’ flank Forward primer
82	3’UTRALR2 (R)	TTGGAACTTGTCGCCCTCC	*ALR2* 3’ flank Reverse primer
83	ALR2 Prom Nest F	CAGGACAGAATTTTCAGGCTAG	Nested Forward primer for *ALR2*
84	3’UTRALR2 Nest R	GGTCCTAAAGTCTAGTTTGCAG	Nested Reverse primer for *ALR2*
85	pFC2GFP (F)	ATGGTGAGCAAGGGCGAGG	GFP ORF Forward primer
86	pFC2GFP (R)	CTCCTTCAATATCAGTTAACGTCTTACTTGTACAGCTC GTCCATG	GFP ORF Reverse primer
87	ALR2 UPZeo R	CTCCTTCAATATCAGTTAACGTCTTCTGAAAAGAAAAG CAACTCTCG	For fusion of *MoALR2*_GFP with Zeo^{r}