

**Additional file 4: Details of the Oligos used for MASA, RT-PCR,
Copy number calculation and Relative expressional studies**

S.N.	OLIGO ID	GENE ID	SEQUENCE (5'-3')	ANNEALING TEMP (IN °C)
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Repeat sequence motifs based on GACA/GATA for identification of tagged transcripts

1.	OAT15.2	NA	ACAGACAGACAGACA	54.5
2.	OAT18.2	NA	ACAGACAGACAGACAGACA	56.8
3.	OAT24.2	NA	ACAGACAGACAGACAGACAGACA	60
4.	OAT15.1	NA	ATAGATAGATAGATA	53.6
5.	OAT18.1	NA	ATAGATAGATAGATAGATA	54.9
6.	OAT24.1	NA	ATAGATAGATAGATAGATAGATA	59.5

Internal Primers Designed for the Identified Genes/Gene Fragments

A. For GACA tagged transcripts

1.	JSO466	DQ304116	F ACT GTT TGG TGT TTC TAC TCC TGA C	60
2.	JSO467		R GAA GAC ACA GAT AGG GTG GTT GAT	
3.	JSO468	DQ534905	F CTG TTG CCT TGT AGG GTT TAT ACT G	61
4.	JSO469		R AGA AAC CAG TCA TCA CTG TCA CAA A	
5.	JSO478	DQ289479	F TAA GGC TTC AAA AAC CAG ACC A	64
6.	JSO479		R ACC AAG ACA GAG TTC CCT CCT C	
7.	JSO480	DQ494483	F ACC ACA CAT CAA CTG GAA AAC C	64.5
8.	JSO481		R CCC TGG GAT TAA GAC TCC AAA C	
9.	JSO663	DQ534902	F TCT TTC AGA GGC TAA TTG GGA TT	62
10.	JSO664		R GTT TGA GGG TTA AAT GGG AGA AT	
11.	JSO665	DQ534907	F GGT TTC AGT TCT GAC TCT GCT GT	64
12.	JSO666		R AAT GTG AGC CCC TAA ATA CAC AA	
13.	JSO669	DQ534908	F ATC GAC ACA CTG GCA CAG AC	62
14.	JSO670		R GAC CTT TGA GAC CTC GGA TG	
15.	JSO673	DQ534909	F AGC AAC ACA GGG CAA CAT TT	59
16.	JSO674		R AGG ACA ACA CGT GCA ACA GT	
17.	JSO675	DQ534910	F TAC CAT TGT CCA AGT TCA AA	62
18.	JSO676		R AGT GGC ACG TTC TGG AAT TT	
19.	JSO679	DQ534906	F GAC CTT TGA GAC CTC GGA TG	58
20.	JSO680		R ATC GAC ACA CTG GCA CAG AC	
21.	JSO683	DQ534904	F TGG CAT GTA CAT CAG GTT GC	58
22.	JSO684		R AGG CTA GGG GTA CTC CGT GT	
23.	JSO687	DQ834345	F GCA GGA GAT GTG GGT TCA AT	60
24.	JSO688		R CCC AAA ATC CCA TAT GGT TG	
25.	JSO691	DQ494485	F ACA AAA TCA CGG GTC TCG TC	64
26.	JSO692		R CAG GAG GTG ACT ACC CCA GA	
27.	JSO1221	DQ834344	F CCTTCTTCAGGGGATCTTCC	58
28.	JSO1222		R CATCGCCTTGTGTCAGAGTG	

29.	JSO1223	DQ789047	F ACGGCTGTCCATCTTGTTTC	56.5
30.	JSO1224		R AATGGCAACCCACTCCAATA	
31.	JSO1225	DQ789048	F ACTCACCATCCGTCCTGTTCTA	58
32.	JSO1226		R CCTAGGGTCCAAAACCTGTGCTT	
33.	JSO1227	DQ789049	F GGCAGTACTGGTTCTGGATGAC	59
34.	JSO1228		R TTATGAGGACTCAAGCTCAGCA	
35.	JSO1322	DQ834346	F ACACGCAAAACCTGACTTGTGA	58
36.	JSO1323		R TGCCTATGGATGGTTGTTGCTA	
37.	JSO1324	DQ845142	F TATTGATCAGTCCTGGGGGTTT	58.5
38.	JSO1325		R GCTGCTACAGCCTTAGGAATCAA	
39.	JSO1326	DQ845143	F GAAGCATTCTCGGATGTCA	56.5
40.	JSO1327		R AGACACGTTGAGGGGGAGTT	
41.	JSO1328	DQ845145	F ACACTCTGTGCTTAGGGCTCTG	58
42.	JSO1329		R TCAGAGCCAAGTCTCTCTGACC	
43.	JSO1330	DQ845146	F ATCCTCTTGCCCTTTTTTCAGAG	59.5
44.	JSO1331		R ATCTGACCTGCAATCAGAGGAG	
45.	JSO1360	DQ904037	F AAGAAAGTGGTGGACAAGCTGA	58
46.	JSO1361		R CAGACACACAAAGAAGCAAGCA	
47.	JSO1362	DQ904038	F CAGGAGCTCAGCTGGTAAAGAA	56
48.	JSO1363		R CACGAGTGTGGTCTTTGGAAAT	
49.	JSO1364	DQ904039	F TGCATTTGCTGTGATTTAGGTG	58
50.	JSO1365		R TCTTCGGGAGTCAAACAGGATA	
51.	JSO1366	DQ913640	F CAGACAACCTGCAACATCACCAT	60
52.	JSO1367		R TTCTGTTCTGAGTCCCACTTC	
53.	JSO1368	DQ913641	F GAAACAGGGAGAAAGACAAGCA	58
54.	JSO1369		R CAGCCACACACAGAGGTAAGTA	
55.	JSO1370	DQ913642	F GCAACCCACTCCAGTGTCTTA	57
56.	JSO1371		R GAGTGGGAGGTGTTGTGTCAGT	
57.	JSO1372	DQ913644	F CCGTGAGTTACTGATGGACAGG	59
58.	JSO1373		R GACAGACATCAAAGGCTGACC	
59.	JSO1374	DQ913645	F CAGACAGACACTTGGGGCTA	57
60.	JSO1375		R TGGTGGCTTGTGTCTCACTC	
61.	JSO1376	DQ913646	F AACCCCCACCTCAAGGAGTA	60
62.	JSO1377		R TATGGCCCTTTCTGTTCTCTG	
63.	JSO1070	BETA-	F CAG ATC ATG TTC GAG AC TTC AA	59
64.	JSO1071	ACTIN	R GAT GAT CTT CAT TGT GCT	

B. For GATA tagged transcripts

1.	JSO1378	EF050082	F AATCACCACTTTGCAACCACACT	58
2.	JSO1379		R CTTCATACCCAGATGCAGACGAT	
3.	JSO1385	EF050084	F TAGCAGCAGAAATGGACTCAACC	56
4.	JSO1386		R ATACCCAGGGATTGGCACATAGT	
5.	JSO1387	EF051516	F TTTTGTGTCCTGCAGTTCTCTGA	56
6.	JSO1388		R CCTTTGTTCTGGGTACGGTGTA	
7.	JSO1389	EF051517	F ATCTTGCTTTCTGGAAGACCATC	55
8.	JSO1390		R CAGTGGAAAATCTGTGTGCAATG	
9.	JSO1391	EF051518	F TTAAGCAAGACCCATTCTGTTGC	57
10.	JSO1392		R CAGGAAACATGTCTTTGGTTTTACA	
11.	JSO1393	EF051519	F TTAAGCAAGACCCATTCTGTTGC	55

12.	JSO1394		R CAGGAAACATGTCTTTGGTTTTACA	
13.	JSO1395	EF592582	F GCTACACCACCTTCATGGTCAAC	57
14.	JSO1396		R CATGTGTGTGTGTGTGTGTGTGT	
15.	JSO1397	EF592583	F GATAGATATGGGCTTCCCTGGTG	58
16.	JSO1398		R GCAAGAATACTGGAGTGCGTTTC	

Real Time Primers for Copy Number Calculation and Relative Expressional Studies

A. For GACA identified transcripts

1.	JSR472	DQ304116	F TGA GTG GGA GGA GGA GAA ATA CTT	60
2.	JSR473		R CTA CCC CAG CCC GGG TTA	
3.	JSR474	DQ534905	F GTG AGT TCG TCT CTG GAA ACC AT	60
4.	JSR475		R CAG ACA ATC TTC CCT GCT TTC TG	
5.	JSR482	DQ494483	F GTG GCC CTG TTT GAA AAA CC	60
6.	JSR483		R TGC GGG AGA GTC TTC CAG AT	
7.	JSR484	DQ289479	F CAC CCC TGC AGC TGA TGA A	60
8.	JSR485		R GGA CTG TCC ACT TGC CTT CCT	
9.	JSR605	DQ534907	F TGG GTC ACT CTT CTG CTT CTA ACA	60
10.	JSR606		R CTG CAG AGT CTT TGA GAA TTT TGG	
11.	JSR607	DQ534902	F AGC GCG GTA CTG CGT GTA A	60
12.	JSR608		R TTG CCC TGT GTC AAC CGA TA	
13.	JSR611	DQ534910	F AAG GGT AGG ATG CCC ATT GAG	60
14.	JSR612		R GCA CGT TCT GGA ATT TCC TAA AG	
15.	JSR615	DQ534906	F TCC CTT AGG GAA GCT GCT TCT	60
16.	JSR616		R CGC TCC GAG ATC GAC ACA CAC T	
17.	JSR697	DQ834344	F TGC CAG GCT CCT CTG TCA CT	60
18.	JSR698		R AAG ATC CCC TGA AGA AGG AAA TG	
19.	JSR699	DQ494485	F TGT AAC CGG CCA GTG ACT CA	60
20.	JSR700		R CTC CCT GTG ATG CCA GCT TT	
21.	JSR701	DQ534904	F CTG AGC ATG CAG CCT GTA GGT	60
22.	JSR702		R GTG CAG GCA GGT GTC TAA AGG	
23.	JSR703	DQ534909	F TTA AAA AAC ACA CCT GAG TTG AAA AGT G	60
24.	JSR704		R ATG TGA AGT GCA AGC CTA TTT TAG G	
25.	JSR705	DQ534908	F CAT CCG CTC CCA GAT CGA	60
26.	JSR706		R CCT CCC TTA GGG AAG CTG CTT	
27.	JSR707	DQ834345	F TGG CAA CCC ACT CCC GTA T	60
28.	JSR602		R CAT GTC CGA CTT TTT GTG ACC TT	
29.	JSR619	DQ913644	F TGA GCG ACT GAA CTG AGG TGA A	60
30.	JSR620		R TGA CCG TGA GCC CCA GAA	
31.	JSR625	DQ913645	F TGT GCC TGA GCA GAC ATG TGT	60
32.	JSR626		R TGT TTG CTT TTC TTT GCC TAC AAT	
33.	JSR631	DQ904039	F TGA TTT AGG TGG GAG CCT GAG A	60
34.	JSR632		R GTG CCG TCA CCC CTA GGA	
35.	JSR635	DQ904036	F GTG AGT TCG TCT CTG GAA ACC AT	60
36.	JSR636		R CAG ACA ATC TTC CCT GCT TTC TG	
37.	JSR639	DQ789048	F ACG AGG AGC CTT GTT TGT CTA C	60
38.	JSR640		R TGC CCA CGT GAC TCT TTC TG	
39.	JSR643	DQ789047	F GCA CAT TCA AGG GCT CAT TCATCA	60

40.	JSR644		R GGC TGC ATA GTG TCC CTG TCT	
41.	JSR818	DQ789046	F CGA GGA GCC TTG TTT GTC TAC A	60
42.	JSR819		R TGC CCA CGT GAC TCT TTC TG	
43.	JSR649	DQ845146	F TCC TCT TGC CCT TTT TCA GAG T	60
44.	JSR650		R ACA CCA GTC ATC AGG TAT GAC ATT G	
45.	JSR653	DQ845144	F TCC CTT AGG GAA GCT GCT TCT	60
46.	JSR654		R GAG ATC GAC ACA CTG GCA CAG A	
47.	JSR661	DQ916743	F CAC CCC CCG TGA CTT CCT	60
48.	JSR662		R GCC TGT TGG GCT CCC TTT	
49.	JSR712	DQ904038	F GTA TTC TCG CCT GGA AAT GC	60
50.	JSR711		R CCA ACT CTT ATA GGA CCC ATG GA	
51.	JSR714	DQ845143	F GAA GGA ACC AGA GCT ACT CAC AGT CTA	60
52.	JSR715		R GGG CAC CGA GGA GTC ATG	
53.	JSR716	DQ845142	F GCA TAA GTT TGA GCA AGC TTT GG	60
54.	JSR717		R TAC GAC GTC AGG TAC CCC A	
55.	JSR718	DQ789049	F TCG GCA TAA GCT GGG AGT AAT	60
56.	JSR719		R CAC CTG ATC GCC ATT TCC A	
57.	JSR720	DQ834346	F CAT GGT ACA CGT GAA AGA ATG ACT TC	60
58.	JSR721		R TTC CAA TCT TTG CTT TGC ATT AAA TC	
59.	JSR724	DQ834347	F CAT CCG CTC CGA GAT CGA	60
60.	JSR725		R CCT CCC TTA GGG AAG CTG CTT	
61.	JSR726	DQ913641	F CTG GCC TGG TGT TTA TGT ACG A	60
62.	JSR727		R CAG AAA AGG ACT AGA TAC ACG GAA G	
63.	JSR728	DQ913640	F GAC AAC TGC AAC ATC ACC ATT C	60
64.	JSR729		R AAA GTG CAG CTT TCC AGT CTT GTA	
66.	JSR730	DQ845141	F CCT GCG CAC AGC AGA CAT A	60
	JSR731		R CAG AGT AAC ACA GCA GAG TCA GAA CTG	
67.	JSR732	DQ904037	F TGC CAT GAA GGT TCT AAG AAA GTG	60
68.	JSR733		R TGG TTC TGG GTC TCT CTC TAA CTG TAC A	
69.	JSR734	DQ789045	F TGC AAC AAG TCA CCT GAA AAG ATT	60
70.	JSR735		R GGC CCC GCC GTC TCT	
71.	JSR814	DQ913646	F CAA GAC TCT GAG GTG CAA ATG G	60
72.	JSR815		R CTA AGC CCT CAG GCC CCT AT	
73.	JSR627	DQ913642	F AGT CAG CTG GAG AAG GAA AAG GAA ATG G	60
74.	JSR628		R TGT GAC CCC GTG GAC TGT AG	
75.	JSR1399	DQ845145	F AGG GAA GGC TTC TCA GAG GAA	60
76.	JSR1400		R TGA GAG AGT GGG AAG GGT CTT TC	

B. For GATA uncovered transcripts

1.	JSR876	EF050082	F ATC ACC ACT TTG CAA CCA CAC T	60
2.	JSR877		R TTG CCC GCT AGT TTC ACA TTC	
3.	JSR822	EF050084	F ACT ATG TGC CAA TCC CTG GGT AT	60
4.	JSR823		R TTC CTG AGC TCG TCA CTC CAT	
5.	JSR878	EF051516	F GCA CTT TCC TTT TGT TAT AGT AGC TTG TAG TAT TC	60
6.	JSR879		R TGT TCT GGG TAT GCT GTA AAC CA	
7.	JSR826	EF051517	F AGC AGC AGA AAT AAC TAT AGG GTA TCC T	60
8.	JSR827		R TGT ATG CTG TAT CAC AGT GGA AAA TC	

9.	JSR883	EF051518	F TGC ATC TGA CCT TTA AGA ACA GAA TT	60
10.	JSR884		R AAG ACT CCA CCT ACA ATG TAC TTT CAC T	
11.	JSR1084	EF592582	F TGG CAG AGG CAG TCT GTA TCC	60
12.	JSR1085		R GTG TAG CTG CTT GGC TTG CA	
13.	JSR1087	EF592585	F CCT ACA ATG TAC TTT CAC TTT CAA TCA TC	60
14.	JSR1088		R GCA TCT GAC CTT TAA GAA CAG AAT TTA TG	
15.	JSR1089	EF592583	F AAT ATG GGA GAT CTG GGT TCG A	60
16.	JSR1090		R TGG AGT GCG TTT CCA TGC T	
19.	JSR522	BETA-	F TCA CGG AGC GTG GCT ACA G	60
20.	JSR523	ACTIN	R TGG ATG TCA CGG ACG ATT TCC	
