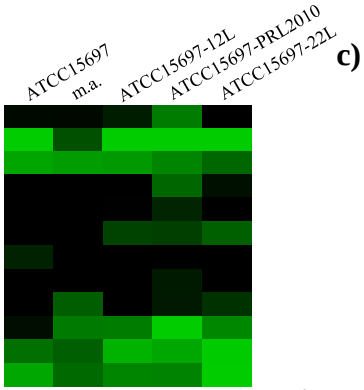
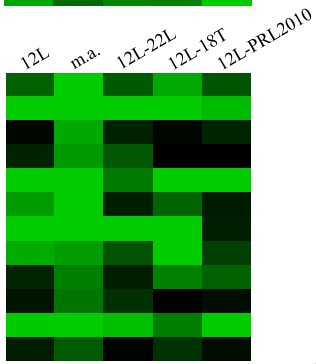
a)

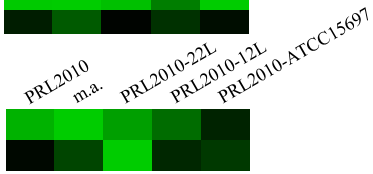
ORF	Product
Blon_0642	Transcriptional regulator, GntR family (*nan*R)
Blon_0644	Hyp. Protein in ROK family (*nan*K)
Blon_0645	N-acetylmannosamine-6-phosphate 2-epimerase (*nan*E)
Blon_0646	Exo-alpha-sialidase (*nan*H)
Blon_0647	ABC transporter system, solute binding protein (*nan*B)
Blon_0648	ABC transporter system, permease protein (*nan*C)
Blon_0649	ABC transporter system, ATP-binding protein (*nan*D)
Blon_0650	ABC transporter system, ATP-binding protein (*nan*F)
Blon_0651	N-acetylneuraminate lyase (*nan*A)
Blon_0881	Glucosamine-6-phosphate isomarase (*nag*B)
Blon_0882	N-acetylglucosamine-6-phosphate deacetylase (*nag*A2)
Blon_2348	Exo-alpha-sialidase (*nan*H)



ORF	Product
B12L_0144	Hyp. Protein in ROK family (*nan*K)
B12L_0145	N-acetylmannosamine-6-phosphate 2-epimerase (*nan*E)
B12L_0147	ABC transporter system, solute binding protein (*nan*B)
B12L_0148	ABC transporter system, permease protein (*nan*C)
B12L_0149	ABC transporter system, ATP-binding protein (*nan*D)
B12L_0150	ABC transporter system, ATP-binding protein (*nan*F)
B12L_0151	N-acetylneuraminate lyase (*nan*A)
B12L_0152	Glucosamine-6-phosphate isomarase (*nag*B1)
B12L_0154	Exo-alpha-sialidase (*nan*H)
B12L_0156	Transcriptional regulator, GntR family (*nan*R)
B12L_1193	N-acetylglucosamine-6-phosphate deacetylase (*nag*A2)
B12L_1194	Glucosamine-6-phosphate isomarase (*nag*B3)

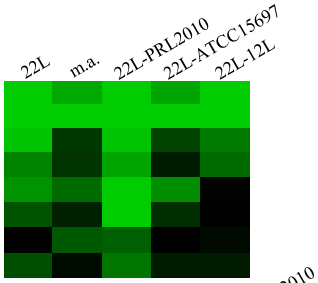


ORF	Product
BBPR_1793	Exo-alpha-sialidase (*nan*H)
BBPR_1794	Exo-alpha-sialidase (*nan*H)



b)

ORF	Product
BADO_0164	endo-1,4-beta-xylanase
BADO_1473	acetylxylan esterase
BADO_1485	endo-1,4-beta-xylanase
BADO_0453	endo-1,4-beta-xylanase
BADO_1487	alpha-L-arabinofuranosidase
BADO_0428	alpha-L-arabinofuranosidase
BADO_0433	beta-1,4-xylosidase
BADO_0310	arabinofuranohydrolase

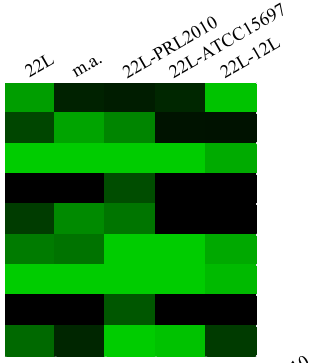


ORF	Product
Blon_2411	endo-1,4-beta-xylanase
Blon_0047	acetylxylan esterase

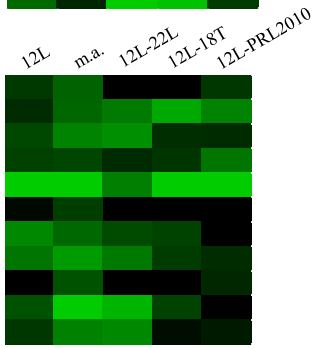
ORF	Product
BBPR_0379	endo-1,4-beta-xylanase
BBPR_0138	Oligosaccharide deacetylase
BBPR_1419	acetylxylan esterase/lipase

c)

ORF	Product
BADO_0020	Glycogen/starch/alpha-glucan phosphorylase
BADO_0317	4-alpha-glucanotransferase
BADO_0371	Phosphoglucomutase
BADO_0753	Alpha-amylase
BADO_0754	Pullulanase
BADO_1451	Pullulanase
BADO_1572	Alpha-amylase
BADO_1638	Alpha-amylase
BADO_1639	Alpha-amylase

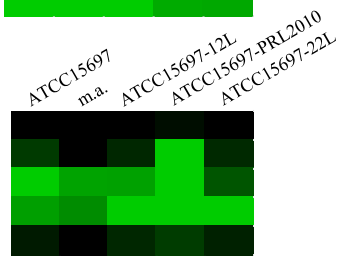


ORF	Product
B12L_0053	Glycogen or amylose phosphorylase
B12L_0107	4-alpha-glucanotransferase
B12L_0253	Alpha-amylase family protein
B12L_0777	Glycogen or amylose phosphorylase
B12L_0782	Aldose 1-epimerase family protein
B12L_1181	Aldose 1-epimerase
B12L_1182	Aldose 1-epimerase
B12L_1523	Phosphoglucomutase
B12L_1584	4-alpha-glucanotransferase
B12L_1821	Aldose 1-epimerase family protein
B12L_0114	Amylopullulanase



ORF	Product
BBPR_0092	GlgP Glycogen phosphorylase
BBPR_1403	Aldose 1-epimerase family protein
BBPR_1512	Pgm Phosphoglucomutase
BBPR_1571	MalQ2 4-alpha-glucanotransferase
BBPR_1658	Alpha-amylase family protein

ORF	Product
Blon_0070	Glycogen/starch/alpha-glucan phosphorylase
Blon_0139	4-alpha-glucanotransferase
Blon_0188	Aldose 1-epimerase
Blon_2184	Phosphoglucomutase
Blon_2246	4-alpha-glucanotransferase



d)

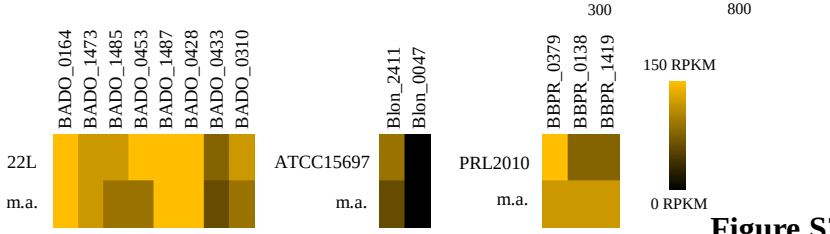


Figure S2