

Apis													
wkB1	+	+	+	+									+
P54G	+	+	+	+									+
wkB7	+	+	+	+		+							+
M6-3G	+	+	+	+	+			+					
M1-2G		+	+	+	+	+		+					
P62G		+	+	+	+	+		+					
P83G		+	+	+	+	+		+					
wkB308		+	+	+	+	+							
wkB292		+	+	+	+	+							
wkB72		+	+	+	+	+							+
wkB195		+	+	+	+	+							+
wkB112		+											+
wkB178		+						+				+	
wkB108		+	+	+	+	+			+		+		
wkB171		+	+	+	+	+							
Gris1-4	+	+		+	+	+							
Imp1-6	+	+		+	+	+							
Bombus													
Imp1-1		+											
Choc5-1		+			+								+
GillExp13		+	+		+								
App6-5		+											
Occ4-3		+											
Bif1-4		+											
Bim1-2		+											

Fig. S1 The presence (“+”) of 11 mannose-family phosphotransferase systems with Enzyme IID domains in *G. apicola* strains. These PTS may also function in the transport of sugars other than mannose, such as glucose, sorbose, fructose, and N-acetylglucosamine.