Reference	This Study	Schauer et al., 2006	Baxter et al., 2006	Causse et al., 2004		This Study
Genotype	Enzyme activity QTL	Metabolite QTL <sup>1</sup>	Expression QTL <sup>2</sup>		:	Structural gene for enzyme in genomic region
IL-1-2	TPI	Ø			no	the end marker for ict-2 (16295)
	NAD-MDH	٠			yes	Solyc01,0907.10 is contained within IL1-2. No mapping information is available for start marker TC80), however co-located markers can be used to estimate it's position(TG51, CT151, TG378). Solyc01g090710 is contained between the co-located markers and the IL1-2 end marker (TG295)
IL-1-3	TPI			Tpi, encoding the Triose P isomerase (chloroplast)	no	TPI (Solyc01g111120) is not contained within IL1-3. End marker for IL1-3 (CAB10) is unmappable but is co-located with TG375. Solyc01g111120 is not contained between the start marker for IL1-3 (TG295) and TG375.
IL-2-4	TPI	aspartate content increased (p < 0.05 in			no	
	PPi-PFK	2003; p < 0.01 in 2004)		Pfpb encoding the PPi-PFK cLED24M16 matches on 2 39807591	yes	HIGING!.
IL-2-5	PPi-PFK	Ø			yes	Solyc02g081160 falls within the IL2-5 markers (TG353 and CT59).
IL-3-2	NAD-GIDH	sucrose content increased (p < 0.05)			yes	Solyc03g094010 likely falls within the IL3-2 region. Although the marker (CT90) was found to map to Chromosome 6, it was also found to match reasonably well to a region on Chromsome 3. Solyc03g094010 was found to be contained between this region and the IL3-2 start marker (TG517)
IL-3-4	NAD-GAPDH	fructose 6P (p < 0.005) and alanine (p < 0.05) contents increased; malate content decreased (p < 0.05)			no	Solyc03g111000 and Solyc03g111010 may fall just outside the IL3-4 markers. These genes do not fall with the IL3-4 inclusive markers but do however fall between the start exclusive marker (TG129) and the inclusive start marker (TG599).
IL-4-1	PEPC	Ø		<i>Ppc3</i> (1), encoding the LePPC3 PEP carboxylase AW929959 matches on Chr 4 663638	yes	Solyc04g006970 is at position 663,809 and likely falls within IL4-1. Although the start marker GP180 is unmapped, it would appear to be located at the start of the chromosome. Solyc04g006970 is contained within the end maker (TG182)
IL-4-2	PGI	Ø			no	Solyc04g076090 falls outside of the IL4-2 region.Solyc04g076090 is contained beyond the IL4-2 end maker.
	NAD-GAPDH	increased: fructose (p < 0.01), sucrose, glucose, fructose 6P, glycerate 3P, citrate, isocitrate, aspartate, glutamate and succinate (all with p < 0.05)	GAPDH (+)		yes	Solyc04g082630 is contained within the IL4-4 markers (CT50 and TG464)
IL-4-4	UGP				no	
	FruK		Fructokinase 2 (+)	Fk(1) Fructokinase-like protein (80% A. th.)	no	
IL-5-2	PPi-PFK	glucose increased (p < 0.05; only measured in 2003)			no	
IL-5-4	NAD-MDH				no	
IL-7-2	TPI	glycerate 3P content increased (p < 0.05)			no	
IL-7-4	PPi-PFK	Ø			yes	Solyc07g049280 is contained within the IL7-4. Although the start marker CP52 is unmappable, it would appear to be located at the start of the chromosome. It's position can also be estimated by co-located markers (TG418, TG342, TG131). Solyc07g049280 is contained with this co-located markes and the IL7-4 end marker (CT84)
	ATP-PFK	~			yes	Solyc07g045160 is contained within the ILT-4. Although the start marker CP52 is unmappable, it would appear to be located at the start of the chromosome. It's position can also be estimated by co-located markers (TG418, TG342, TG131). Solyc07g049280 is contained with this co-located marker and the ILT-4 end marker (CT84)
IL-7-4-1	NAD-GAPDH	Ø			no	
IL-9-2	ShkDH	glucose content increased (p < 0.05)			no	

IL-10-1	NAD-GAPDH	Ø	Although the start marker for IL10-1 is located at the start of the chromosome, Solyc10g005510 has been mapped outside (north) of this.  no
IL-10-3	Invertase	Ø	Solyc10g083290, Solyc10g083300, Solyc10g085360, Solyc10g085640 and Solyc10g085650 may well all be contained within the IL10-3. Start marker CP49 cannot be mapped, however it's location can be estimated by looking at marker erise ide (CT57 and TG241). Using these neighbouring markers, it can be determined that Solyc10g085360, Solyc10g085400, dox10g10g08540 and Solyc10g085600 are between these yes markers and the IL10-3 end marker (TG233). With current marker information, it is not possible to say that Solyc10g083290 and Solyc10g083300 are contained within the IL10-3, but it would seem highly likely that they do.
IL-11-3	ShkDH	Ø	no
	Invertase		no
IL-12-3	TPI	ø .	no
	PGM		no
	UGP		no

**Legend:** 1 = only for substracts or products of all enzymes analyzed in this study

<sup>&</sup>lt;sup>2</sup> = significant change in the expression of transcripts encoding the corresponding enzyme