

Compound	# Overlapping Pathway Genes	Overlapping Pathway Genes	# Metabolic Genes in CI(s)
aconitate	1	ACO1	16
ADP	8	PYC2, PGI1, ADH5, YPC1, MIS1, RIB7, ECM31, DUR1,2	38
allantoate	0		20
aspartate	1	II: PYC2	17 on Chr II 1 on Chr XVI
ATP-nega	6	MET16, ERG10, GLN1, MET12, ASN1, CIT3	27
citrate/isocitrate	0		1 on Chr XIII 4 on Chr XV
dihydroorotate	0		25 on Chr II 1 on Chr III
dihydroxy-acetone phosphate	0*	*ADH1	1
Sedoheptulose 7-phosphate	3	II: TKL2; XV: RKI1; XVI: TKL1	27 on Chr II 67 on Chr XIII 72 on Chr XV 17 on Chr XVI
fructose-1,6-bisphosphate	0*	*ADH1	1
glutamate	6	II: TYR1, LYS2, PYC2, ADH5; XVI: ARO7, GLN1	25 on Chr II 23 on Chr XVI
glutathione/glutathione-disulfide	1	II: GPX2	67 on Chr II 3 on Chr IX
hexose-phosphate	3	II: PYC2; XV: RKI1; XVI: TKL1	18 on Chr II 5 on Chr XIII 65 on Chr XV 17 on Chr XVI
inosine	2	ADE12, AAH1	14
lactate	0		2
lysine	6	CPA1, ADE2, CDC21, DFR1, HIS3, NPT1	72
N-acetyl-glucosamine-1-phosphate	0		16
NAD+	6	II: ADH5, PGI1, PYC2, MET8, PDB1, ARA1	21 on Chr II
NADP+	6	ALD5, CEM1, PRO3, ILV1, HOM3, ARG5,6	40
orotate	1	URA3	1
orotidi	1	URA3	1
orotidine-5'-phosphate	1	URA3	1
phenylpyruvate	1	II: ADH5	67 on Chr II
quinolinate	0		9 on Chr XIII 38 on Chr XV
ribose-phosphate	6	XII: ADE13, IMD3, PNP1, TAL1, URA4; XVI: TKL1	21 on Chr II 61 on Chr XII 58 on Chr XVI
S-adenosyl homocysteine	1	ERG7	22
S-adenosyl-L-methionine	0		4
serine	1	MET12	23
thiamine	0		2
threonine	3	V: GLY1, ILV1, UTR4	17 on Chr II 48 on Chr V
UDP-D-glucose	0		17 on Chr II 3 on Chr V
UDP-N-acetyl-glucosamine	1	V: PCM1	12 on Chr II 37 on Chr V
valine	5	III: ILV6; XII: ECM38, MEU1, PDC1, PDC5	2 on Chr III 60 on Chr XII 46 on Chr XVI

Sup. Table 2. Examining Confidence Intervals for Pathway Genes.