

Orphan Enzyme		Hypothesised Gene	Prob.	Acc.	No.	Existing Annotation	Dry	Wet
1	glucosamine-6-phosphate deaminase (3.5.99.6)	YHR163W (SOL3)	<10 ⁻⁴	97	8	'6-phosphogluconolactonase' ida	-	-
2	glutaminase (3.5.1.2)	YIL033C (BCY1)	<10 ⁻⁴	92	11	'cAMP-dependent protein kinase inhibitor ' ida	✗	-
3	L-threonine 3-dehydrogenase (1.1.1.103)	YDL168W (SFA1)	<10 ⁻⁴	83	6	'alcohol dehydrogenase' ida	-	-
4	purine-nucleoside phosphorylase (2.4.2.1)	YLR209C (PNP1)	<10 ⁻⁴	82	11	'purine-nucleoside phosphorylase' ida	✓	-
5	2-aminoadipate transaminase (2.6.1.39)	YGL202W (ARO8)	<10 ⁻⁴	80	3	'aromatic-amino-acid transaminase' ida	✓	✓
6	5,10-methenyltetrahydrofolate synthetase (6.3.3.2)	YER183C (FAU1)	<10 ⁻⁴	80	4	'5,10 formyltetrahydrofolate cyclo-ligase' ida	✓	-
7	glucosamine-6-phosphate deaminase (3.5.99.6)	YNR034W (SOL1)	<10 ⁻⁴	79	2	'possible role in tRNA export'	-	-
8	pyridoxal kinase (2.7.1.35)	YPR121W (THI22)	<10 ⁻⁴	78	1	'phosphomethylpyrimidine kinase' iss	-	-
9	mannitol-1-phosphate 5-dehydrogenase (1.1.1.17)	YNR073C	<10 ⁻⁴	78	6	'putative mannitol dehydrogenase ' iss	-	-
10	1-acylglycerol-3-phosphate O-acyltransferase (2.3.1.51)	YDL052C (SLC1)	0.0001	80	6	'1-acylglycerol-3-phosphate O-acyltransferase' ida	✓	-
11	glucosamine-6-phosphate deaminase (3.5.99.6)	YGR248W (SOL4)	0.0002	78	2	'6-phosphogluconolactonase' ida	-	-
12	maleylacetoacetate isomerase (5.2.1.2)	YLL060C (GTT2)	0.0003	76	3	'glutathione S-transferase' ida	-	-
13	serine O-acetyltransferase (2.3.1.30)	YJL218W	0.0005	78	2	'unknown function'	-	-
14	L-threonine 3-dehydrogenase (1.1.1.103)	YLR070C (XYL2)	0.0052	75	6	'xylitol dehydrogenase' ida	-	-
15	2-aminoadipate transaminase (2.6.1.39)	YJL060W (BNA3)	0.0084	73	3	'kynurenine aminotransferase' ida	-	✓
16	pyridoxal kinase (2.7.1.35)	YNR027W	0.0259	76	2	'involved in bud-site selection' iss	-	-
17	polyamine oxidase (1.5.3.11)	YMR020W (FMS1)	0.0289	78	4	'polyamine oxidase' ida	✓	-
18	2-aminoadipate transaminase (2.6.1.39)	YER152C	0.0332	74	3	'uncharacterized'	-	✓
19	L-aspartate oxidase (1.4.3.16)	YJL045W	0.1300	72	1	'succinate dehydrogenase isozyme' iss	-	-
20	purine-nucleoside phosphorylase (2.4.2.1)	YLR017W (MEU1)	0.1421	72	6	'methylthioadenosine phosphorylase' ida	✓	-