

Table 3

Gene	Canonical_name	Function	L60	C60	L60-C60
gdhB	VNG0161G	Energy Metabolism Amino Acid Metabolism Metabolism of Other Amino Acids	-0.3502	-0.2419	-0.1083
rps11p	VNG1134G	Translation	-0.0792	0.2357	-0.3149
rpl18e	VNG1137G	Translation	-0.2453	0.1728	-0.4181
rpl13p	VNG1138G	Translation	-0.2576	0.1616	-0.4192
rps9p	VNG1139G	Translation	-0.1503	0.1899	-0.3402
sdhB	VNG1308G	Carbohydrate Metabolism Energy Metabolism Biodegradation of Xenobiotics	-0.1452	0.2389	-0.3841
rpl4e	VNG1690G	Translation	-0.2237	0.1891	-0.4128
rps19p	VNG1693G	Translation	-0.2001	0.1588	-0.3589
rps8p	VNG1707G	Translation	-0.2252	0.2516	-0.4768
rpl6p	VNG1709G	Translation	-0.2642	0.2377	-0.5019
rpl18p	VNG1714G	Translation	-0.1628	0.2854	-0.4482
rps5p	VNG1715G	Translation	-0.266	0.1823	-0.4483
rpl30p	VNG1716G	Translation	-0.2411	0.2659	-0.507
rpl15p	VNG1718G	Translation	-0.2302	0.206	-0.4362
rpl31e	VNG2467G	Translation	-0.0704	0.1847	-0.2551
rpl39e	VNG2469G	Translation	0.0047	0.2754	-0.2707
rpl32e	VNG1711G	Translation	-0.1605	0.275	-0.4355
fib	VNG1176G	Translation	0.009	-0.2114	0.2204
pmu1	VNG2206G	Carbohydrate Metabolism	-0.095	0.2147	-0.3097
hem2	VNG2322G	Metabolism of Cofactors and Vitamins	0.0498	0.1864	-0.1366
mal	VNG2289G	Energy Metabolism	-0.0311	-0.2565	0.2254
acd2	VNG0775G	Lipid Metabolism Metabolism of Complex Lipids	-0.113	-0.2262	0.1132
thrB	VNG1797G	Amino Acid Metabolism	0.025	-0.3116	0.3366
VNG1524C	VNG1524C	Carbohydrate Metabolism Amino Acid Metabolism Metabolism of Other Amino Acids	-0.2776	-0.2373	-0.0403
glyS	VNG2352G	Amino Acid Metabolism Translation	0.0863	0.2001	-0.1138
rpl12p	VNG1103G	Translation	-0.2031	0.1928	-0.3959
rpl1p	VNG1105G	Translation	-0.1757	0.2506	-0.4263
aspC2	VNG1121G	Energy Metabolism Amino Acid Metabolism Biosynthesis of Secondary Metabolites	-0.2589	-0.3206	0.0617
rps13p	VNG1132G	Translation	-0.0484	0.2208	-0.2692
thrC1	VNG2430G	Amino Acid Metabolism Metabolism of Cofactors and Vitamins	-0.2027	-0.162	-0.0407
rps17e	VNG1433G	Translation	-0.0089	0.1525	-0.1614
cblT	VNG1550G	Metabolism of Cofactors and Vitamins	-0.1954	0.272	-0.4674
pyrG	VNG1830G	Nucleotide Metabolism	0.2555	0.2531	0.0024
rpl40e	VNG2076G	Translation	0.0619	0.2688	-0.2069
atpB	VNG2138G	Energy Metabolism	-0.1728	0.1843	-0.3571
cpx	VNG2201G	Metabolism of Complex Carbohydrates Metabolism of Cofactors and Vitamins	0.1246	0.221	-0.0964
pyrB	VNG6309G	Nucleotide Metabolism Amino Acid Metabolism	-0.379	-0.19	-0.189
arcB	VNG6315G	Amino Acid Metabolism	-0.1429	0.3252	-0.4681
arcC	VNG6316G	Energy Metabolism Amino Acid Metabolism	0.0151	0.2261	-0.211
pykA	VNG0324G	Carbohydrate Metabolism Energy Metabolism Nucleotide Metabolism	0.0748	0.2181	-0.1433

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ppsA	VNG0330G	Carbohydrate Metabolism	-0.2977	-0.2572	-0.0405
		Energy Metabolism			
pqqE	VNG1185G	Metabolism of Cofactors and Vitamins	0.0859	0.2319	-0.146
ush	VNG1408G	Nucleotide Metabolism	-0.1995	-0.1893	-0.0102
VNG0309C	VNG0309C	Carbohydrate Metabolism	0.1377	-0.2681	0.4058
		Lipid Metabolism			
		Metabolism of Other Amino Acids			
		Biodegradation of Xenobiotics			
adh3	VNG1018G	Energy Metabolism	-0.2001	-0.1871	-0.013
sop1	VNG1660G	Lipid Metabolism	-0.0752	-0.2522	0.177
aspB1	VNG0502G	Energy Metabolism	0.0015	-0.1831	0.1846
		Amino Acid Metabolism			
		Biosynthesis of Secondary Metabolites			
acs2	VNG0997G	Carbohydrate Metabolism	-0.14	-0.213	0.073
		Energy Metabolism			
rps6e	VNG2514G	Translation	-0.0726	0.2665	-0.3391
VNG0291h	VNG0291H		-0.0795	-0.2248	0.1453
rpb3	VNG1136G	Transcription	-0.1196	0.2306	-0.3502
tfbB	VNG0734G	Transcription	-0.0514	-0.1971	0.1457
ykfD	VNG2343G	Membrane Transport	-0.1513	-0.1849	0.0336
dppC2	VNG2346G	Membrane Transport	-0.0912	-0.1818	0.0906
dppA	VNG2349G	Membrane Transport	-0.2054	-0.3359	0.1305
appB	VNG2359G	Membrane Transport	0.0032	-0.1694	0.1726
dppB2	VNG2529G	Membrane Transport	-0.0536	-0.2176	0.164
yfmF	VNG2552G	Membrane Transport	0.0409	-0.1787	0.2196
potC	VNG1867G	Membrane Transport	0.0764	0.3137	-0.2373
VNG1857C	VNG1857C	Membrane Transport	0.0282	-0.2084	0.2366
yhdG	VNG1240G	Membrane Transport	-0.2076	-0.22	0.0124
cdc48c	VNG1667G	cell division control	-0.2845	-0.1785	-0.106
flaB1	VNG0960G	Cell motility	-0.1749	0.2334	-0.4083
flaA2	VNG1009G	Cell motility	-0.1424	0.2241	-0.3665
nfi	VNG0363G	DNA repair	-0.0092	0.2357	-0.2449
alkA	VNG1311G	DNA repair	0.0998	-0.2454	0.3452
dpsA	VNG2443G	DNA repair	0.0125	-0.267	0.2795
lon	VNG0303G	Protein degradation	-0.1598	-0.3407	0.1809
gvpL2	VNG6229G	Gas vesicle biogenesis	0.0739	-0.2042	0.2781
gvpA1	VNG6029G	Gas vesicle biogenesis	-0.2608	0.2718	-0.5326
yusM	VNG2120G	Amino acid metabolism	-0.0871	-0.1954	0.1083
VNG6397h	VNG6397H	Miscellaneous	0.109	-0.2083	0.3173
VNG6332h	VNG6332H	Miscellaneous	0.183	0.2339	-0.0509
VNG6194h	VNG6194H	Miscellaneous	0.1153	0.2427	-0.1274
VNG6181h	VNG6181H	Miscellaneous	0.0207	0.1763	-0.1556
VNG5173h	VNG5173H	Miscellaneous	0.0398	0.2247	-0.1849
VNG5100C	VNG5100C	Miscellaneous	0.0475	0.1801	-0.1326
VNG5069C	VNG5069C	Miscellaneous	-0.0059	-0.1998	0.1939
VNG5012h	VNG5012H	Miscellaneous	0.0188	0.3947	-0.3759
VNG5009h	VNG5009H	Miscellaneous	0.0458	0.2119	-0.1661
VNG5008h	VNG5008H	Miscellaneous	0.153	0.2357	-0.0827
VNG2643h	VNG2643H	Miscellaneous	-0.0405	0.1622	-0.2027
VNG2626h	VNG2626H	Miscellaneous	-0.1858	-0.2067	0.0209
VNG2508C	VNG2508C	Miscellaneous	-0.1858	-0.1957	0.0099
VNG2465C	VNG2465C	Miscellaneous	0.0224	0.2103	-0.1879
VNG2259C	VNG2259C	Miscellaneous	-0.1547	-0.3739	0.2192
VNG2236h	VNG2236H	Miscellaneous	0.0555	-0.2643	0.3198
VNG2183h	VNG2183H	Miscellaneous	-0.0437	0.2013	-0.245
VNG2164C	VNG2164C	Miscellaneous	-0.0897	0.2287	-0.3184
VNG2099C	VNG2099C	Miscellaneous	-0.1075	0.2762	-0.3837
VNG2039h	VNG2039H	Miscellaneous	-0.0179	0.1942	-0.2121

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VNG1925h	VNG1925H	Miscellaneous	-0.2262	-0.3301	0.1039
VNG1802h	VNG1802H	Miscellaneous	-0.2008	-0.2055	0.0047
VNG1800h	VNG1800H	Miscellaneous	-0.0566	-0.1878	0.1312
VNG1610C	VNG1610C	DNA repair	0.0034	-0.1839	0.1873
VNG1534h	VNG1534H	Miscellaneous	0.0884	0.1845	-0.0961
VNG1468h	VNG1468H	Miscellaneous	-0.156	-0.1808	0.0248
VNG1448h	VNG1448H	Miscellaneous	0.0021	-0.2552	0.2573
VNG1446h	VNG1446H	Miscellaneous	-0.1717	-0.1565	-0.0152
VNG1413h	VNG1413H	Miscellaneous	-0.1999	-0.1673	-0.0326
VNG1398C	VNG1398C	Miscellaneous	0.0152	-0.2028	0.218
VNG1388h	VNG1388H	Miscellaneous	0.0316	-0.1799	0.2115
VNG1381h	VNG1381H	Miscellaneous	0.0212	-0.1886	0.2098
VNG1337C	VNG1337C	Miscellaneous	0.0503	-0.276	0.3263
VNG1314h	VNG1314H	Miscellaneous	-0.2855	-0.4056	0.1201
VNG1292h	VNG1292H	Miscellaneous	-0.0933	0.1855	-0.2788
VNG1289h	VNG1289H	Miscellaneous	-0.0386	0.1679	-0.2065
VNG1238C	VNG1238C	Miscellaneous	-0.205	-0.1989	-0.0061
VNG1235C	VNG1235C	Miscellaneous	0.0405	-0.2065	0.247
VNG1041h	VNG1041H	Miscellaneous	0.1098	-0.1937	0.3035
VNG1025h	VNG1025H	Miscellaneous	-0.1582	-0.2109	0.0527
VNG0969h	VNG0969H	Cell motility	0.0046	-0.1969	0.2015
VNG0868h	VNG0868H	Miscellaneous	0.076	-0.2219	0.2979
VNG0788h	VNG0788H	Miscellaneous	-0.1748	0.1873	-0.3621
VNG0708h	VNG0708H	Miscellaneous	-0.1281	-0.1813	0.0532
VNG0674C	VNG0674C	Transport	-0.017	-0.1611	0.1441
VNG0659h	VNG0659H	Miscellaneous	0.1622	0.2371	-0.0749
VNG0654C	VNG0654C	Miscellaneous	0.0076	-0.2602	0.2678
VNG0622h	VNG0622H	Miscellaneous	0.0625	-0.1821	0.2446
VNG0595h	VNG0595H	Miscellaneous	0.0435	-0.1716	0.2151
VNG0557h	VNG0557H	Miscellaneous	-0.1285	-0.1635	0.035
VNG0535C	VNG0535C	Miscellaneous	-0.0329	0.1584	-0.1913
VNG0520h	VNG0520H	Miscellaneous	-0.195	-0.2252	0.0302
VNG0516h	VNG0516H	Miscellaneous	-0.009	-0.1766	0.1676
VNG0498C	VNG0498C	Miscellaneous	0.0148	-0.1849	0.1997
VNG0482h	VNG0482H	Miscellaneous	0.063	-0.2124	0.2754
VNG0435h	VNG0435H	Miscellaneous	0.1023	-0.1824	0.2847
VNG0402h	VNG0402H	Miscellaneous	-0.3652	-0.413	0.0478
VNG0394C	VNG0394C	Miscellaneous	-0.1147	0.2186	-0.3333
VNG0357h	VNG0357H	Miscellaneous	0.1325	-0.2393	0.3718
VNG0332C	VNG0332C	Miscellaneous	0.0447	-0.1913	0.236
VNG0289h	VNG0289H	Miscellaneous	-0.0572	-0.1565	0.0993
VNG0240C	VNG0240C	Miscellaneous	0.0613	-0.2196	0.2809
VNG0219h	VNG0219H	Miscellaneous	-0.0529	-0.2262	0.1733
VNG0217h	VNG0217H	Miscellaneous	-0.0317	-0.3678	0.3361
VNG0118h	VNG0118H	Miscellaneous	0.0279	0.2123	-0.1844
VNG0075h	VNG0075H	Miscellaneous	0.0832	0.1856	-0.1024
VNG0070h	VNG0070H	Miscellaneous	0.0129	-0.1751	0.188
VNG0049h	VNG0049H	Miscellaneous	0.1199	0.3498	-0.2299
VNG0019h	VNG0019H	Miscellaneous	0.3288	0.3346	-0.0058
mer	VNG1342G	Miscellaneous	-0.0231	-0.24	0.2169
mcm	VNG2181G	Miscellaneous	0.0071	0.185	-0.1779
htr18	VNG0812G	Signal transduction	0.1207	-0.2275	0.3482
hly	VNG2573G	Miscellaneous	-0.1777	-0.2185	0.0408
dgs	VNG2065G	Miscellaneous	-0.0555	-0.1974	0.1419
cspD2	VNG1836G	Stress response	-0.2439	0.3291	-0.573
cspD1	VNG0101G	Stress response	0.1489	0.2539	-0.105