

Category	IMG gene ID	COG category	Product name	Average %ID (aa) of recruited sequences (+/- SD)	Total number of sequences
Adhesin domains	MG2_0389	[E] Amino acid metabolism and transport	Conserved putative subtilisin peptidase	59 (+/- 17)	49
	MG2_0905	[E] Amino acid metabolism and transport	Conserved putative beta-lytic metallopeptidase	50 (+/- 11)	339
	MG2_0906	[E] Amino acid metabolism and transport	Conserved putative peptidase	58 (+/- 12)	340
	MG2_0907	[E] Amino acid metabolism and transport	Putative lipoprotein	69 (+/- 13)	25
	MG2_0909	[E] Amino acid metabolism and transport	Conserved putative peptidase	65 (+/- 14)	174
	MG2_0910	[E] Amino acid metabolism and transport	Conserved putative peptidase	58 (+/- 13)	143
	MG2_0911	[M] Cell wall/membrane/envelope biogenesis	Hypothetical protein with adhesin domains	63 (+/- 16)	144
	MG2_0390	[S] Function unknown	Hypothetical protein	49 (+/- 13)	73
	MG2_1415	[S] Function unknown	Putative giant membrane protein	66 (+/- 20)	129
Vitamin binding and transport	MG2_0861	[I] Lipid transport and metabolism	Methylmalonyl CoA mutase B12 binding protein	52 (+/- 16)	36
	MG2_1508	[I] Lipid transport and metabolism	Methylmalonyl CoA mutase B12 binding protein	67 (+/- 17)	145
	MG2_1148	[I] Lipid transport and metabolism	Methylmalonyl-CoA mutase, alpha/beta chain	55 (+/- 11)	148
	MG2_0324	[S] Function unknown	Cobalamin adenosyltransferase	48 (+/- 14)	41
	MG2_0820	[H] Coenzyme transport and metabolism	Lipoate-protein ligase B	42 (+/- 16)	50
	MG2_0837	[C] Energy production and conversion	pyruvate/2-oxoglutarate/2-oxoisovalerate dehydrogenase	45 (+/- 14)	304
	MG2_0864	[I] Lipid transport and metabolism	Biotin/lipoyl attachment protein	41 (+/- 9)	32
	MG2_0880	[H] Coenzyme transport and metabolism	BirA family transcriptional regulator	63 (+/-28)	10
	MG2_1652	[I] Lipid transport and metabolism	Biotin carboxylase	49 (+/- 12)	194
	MG2_1683	[I] Lipid transport and metabolism	3-methylcrotonyl-CoA carboxylase alpha subunit	52 (+/- 9)	12
MG2_1684	[I] Lipid transport and metabolism	Biotin carboxylase	54 (+/- 11)	384	
Fatty acid degradation	MG2_1503	[I] Lipid transport and metabolism	Long-chain acyl-CoA synthetase	47 (+/- 15)	156
	MG2_0560	[I] Lipid transport and metabolism	Acyl-CoA dehydrogenase	51 (+/- 20)	205
	MG2_0630	[I] Lipid transport and metabolism	Acyl-CoA dehydrogenase	49 (+/- 15)	232
	MG2_1576	[I] Lipid transport and metabolism	Enoyl-CoA hydratase/isomerase	68 (+/-25)	39
	MG2_0458	[I] Lipid transport and metabolism	3-hydroxyacyl-CoA dehydrogenase	53 (+/-21)	103
	MG2_1061	[I] Lipid transport and metabolism	Acetyl-CoA acetyltransferase	59 (+/- 27)	23
	MG2_0518	[I] Lipid transport and metabolism	Acetyl-CoA C-acetyltransferase	47 (+/- 13)	195
	MG2_0786	[I] Lipid transport and metabolism	Acetyl-CoA C-acetyltransferase	51 (+/- 12)	232
	MG2_0702	[I] Lipid transport and metabolism	Glutaryl-CoA dehydrogenase	57 (+/- 16)	202