

## Cell wall and cell processes - 54 genes

GENE ID	GENE NAME	FUNCTION	FPKM						PPEE	PDPE	RealFC	
			NORMAL Long			LSMMG Long						
			4days 35hr	4days 36hr	4days 37hr	4days 35hr	4days 36hr	4days 37hr	posterior probability that a transcript is equally expressed	posterior probability that a transcript is differentially expressed	real fold change is the ratio of the normalized mean count values for LSMMG over the normalized mean count values for normal	
MMAR_0142	ltp1_1	cell wall and cell processes	61.57	57.72	49.4	125.2	112.16	96.59	6.86E-08	0.999999931	1.846561413	
MMAR_0218	MMAR_0218-1	cell wall and cell processes	3.08	0.85	1.99	14.86	17.99	25.46	2.21E-12	1	9.481240366	
MMAR_0446	mmpl3	cell wall and cell processes	740.49	594.46	641.03	469.74	442.17	495.85	8.08E-08	0.999999919	0.675156534	
MMAR_0493	MMAR_0493-1	cell wall and cell processes	60.28	49.81	69.01	107.5	99.84	87.68	7.62E-07	0.999999238	1.558340356	
MMAR_0495	MMAR_0495-1	cell wall and cell processes	992.25	856.25	925.39	1228.72	1236.12	1369.04	1.03E-06	0.999998972	1.286330861	
MMAR_0500	MMAR_0500-1	cell wall and cell processes	318.82	242.5	238.19	404.86	397.66	407.27	3.46E-05	0.999996536	1.416585623	
MMAR_0543	MMAR_0543-1	cell wall and cell processes	238.69	232.63	250.24	302.89	301.78	342.8	0.001819101	0.998180899	1.235130266	
MMAR_0546	esxG	cell wall and cell processes	1782.91	1265.45	2178.41	1345.72	1153.32	1028.9	0.011496959	0.988053091	0.623311456	
MMAR_0547	esxH	cell wall and cell processes	1313.97	1048.45	1390.83	869.01	866.63	675.78	0	1	0.586798498	
MMAR_0548	MMAR_0548-1	cell wall and cell processes	667.37	518.62	704.43	464.92	380.42	364.4	1.11E-06	1	0.604111523	
MMAR_0549	MMAR_0549-1	cell wall and cell processes	78.5	65.91	101.48	71.36	40.21	55.59	0.030726577	0.969276327	0.635203286	
MMAR_0963	MMAR_0963-1	cell wall and cell processes	316.13	272.67	287.53	384.35	352.51	372.33	0.007032708	0.992992702	1.152932026	
MMAR_1005	mmpl5	cell wall and cell processes	1230.20	1597.7	1059.04	214.71	325.85	380.07	0.000320702	0.996979298	0.219623297	
MMAR_1006	mmpp5	cell wall and cell processes	1275.15	1301.54	1069.72	152.06	241.26	0	1	0.128236513		
MMAR_1278	MMAR_1270-1	cell wall and cell processes	83.83	81.65	106.54	158.62	118.35	166.28	0.005124241	0.994875579	1.523492727	
MMAR_1271	cfrC	cell wall and cell processes	92.83	83.55	108.86	276.33	208.62	276.96	1.11E-16	1	2.35513724	
MMAR_1345	MMAR_1345-1	cell wall and cell processes	103.76	86.56	120.85	89.04	67.1	74.69	3.07E-05	0.999969324	0.699519504	
MMAR_1559	MMAR_1554-1	cell wall and cell processes	179.46	204.07	223.41	346.36	363.37	287.25	0.003278744	0.996721256	1.538551259	
MMAR_1759	MMAR_1754-1	cell wall and cell processes	39.81	26.15	27.52	90.07	90.91	156.3	0.000150372	0.99849628	3.394238836	
MMAR_1769	driC	cell wall and cell processes	676.72	593.26	585.2	491.56	498.55	436.83	0.024446334	0.975555336	0.718778206	
MMAR_1771	driA	cell wall and cell processes	800.72	746.4	804.34	610.01	619.81	554.01	3.76E-11	1	0.711027417	
MMAR_1840	MMAR_1840-1	cell wall and cell processes	255.24	240.67	311.85	376.54	348.11	342.85	0.010192428	0.989807572	1.264965965	
MMAR_1887	efpA	cell wall and cell processes	357.22	406.34	648.38	172.99	224.02	220.09	0.020765539	0.979324461	0.414706013	
MMAR_1967	ftsK	cell wall and cell processes	607.73	519.03	609.02	705.04	739.33	730.56	3.50E-07	0.99999965	1.185351373	
MMAR_2000	MMAR_2004-1	cell wall and cell processes	650.2	421.27	570.24	391.52	376.33	367.78	4.09E-05	0.999959064	0.64410197	
MMAR_2026	MMAR_2026-1	cell wall and cell processes	73.47	68	64.4	140.94	108.34	104.81	0.000259706	0.999740294	1.601908366	
MMAR_2268	MMAR_2268-1	cell wall and cell processes	906.98	848.47	824.67	481.5	454.84	454.7	7.77E-16	1	0.502434773	
MMAR_2389	MMAR_2389-1	cell wall and cell processes	366.78	607.76	562.62	208.04	234.25	235.48	0.009392428	0.996067572	0.409357196	
MMAR_2424	cydD	cell wall and cell processes	30.66	19.51	27.93	59.66	52.13	42.8	1.07E-05	0.999989332	1.88022767	
MMAR_2426	cydA	cell wall and cell processes	352.44	368.06	351.45	498.11	681.34	612.34	0.031897056	0.961950244	1.579227743	
MMAR_2439	MMAR_2439-1	cell wall and cell processes	31.89	30.15	39.64	29.11	20.64	20.17	0.000957598	0.999402402	0.647570198	
MMAR_2502	MMAR_2502-1	cell wall and cell processes	552.92	567.28	636.49	1000.2	1072.28	954.04	7.35E-14	1	1.617017148	
MMAR_2772	MMAR_2772-1	cell wall and cell processes	73.5	50.75	81.83	35.4	37.79	34.84	0.049525935	0.956474934	0.535203255	
MMAR_2773	MMAR_2773-1	cell wall and cell processes	563.19	491.75	177.77	195.39	184.68	166.02	0.000222222	0	1	3.86011859
MMAR_2929	MMAR_2929-1	cell wall and cell processes	248.07	297	455.08	712.01	643.95	538.75	0.030753535	0.961244645	1.769117138	
MMAR_3234	MMAR_3234-1	cell wall and cell processes	525.4	417.64	514.36	465.74	393.88	444.46	1.98E-06	0.99998023	0.836591994	
MMAR_3250	MMAR_3250-1	cell wall and cell processes	334.45	337.63	435.53	255.04	266.47	284.95	3.37E-05	0.999663035	0.682175072	
MMAR_3359	MMAR_3359-1	cell wall and cell processes	78.7	59.39	63.88	122.07	109.43	100.5	3.92E-07	0.999996068	1.547549497	
MMAR_3364	MMAR_3364-1	cell wall and cell processes	3.42	2.84	4.42	8.48	10.48	15.34	0.001398909	0.998601091	3.042674622	
MMAR_3554	MMAR_3554-1	cell wall and cell processes	367.17	447.88	240.47	34.28	50.77	35.52	2.60E-05	0.999973956	0.105693061	
MMAR_3560	MMAR_3560-1	cell wall and cell processes	49.73	62.92	38.69	140.9	156.18	87.81	0.013028733	0.986971277	2.347166685	
MMAR_3653	MMAR_3653-1	cell wall and cell processes	800.02	958.65	1360.09	692.4	601.84	589.17	0.016376353	0.983623647	0.554080951	
MMAR_3658	MMAR_3658-1	cell wall and cell processes	100.99	77.94	112.39	97.42	60.52	1.23E-12	1	9.130607243		
MMAR_3693	mbla	cell wall and cell processes	25.85	19.44	21.8	50.37	49.54	55.63	2.17E-11	1	2.185912491	
MMAR_3744	mmpl4_1	cell wall and cell processes	80.61	85.46	56.76	146.77	240.05	253.27	0.000487165	0.995912835	2.674849519	
MMAR_4138	oppD	cell wall and cell processes	96.69	92.4	103.23	158.59	150.76	129.81	4.55E-05	0.99994475	1.413083161	
MMAR_4182	MMAR_4182-1	cell wall and cell processes	11.93	7.54	9.6	21.68	17.34	20.04	0.000124517	0.99875483	2.176633996	
MMAR_4576	psIS2	cell wall and cell processes	77.02	78.62	88.63	166.37	128.09	118.21	0.003817366	0.996182634	1.58071837	
MMAR_4580	phoS2	cell wall and cell processes	433.4	370.59	482.39	555.17	535.61	606.18	1.28E-05	0.999871919	1.240809578	
MMAR_4623	MMAR_4623-1	cell wall and cell processes	458.44	420.15	432.42	723.82	672.06	555.61	0.030735112	0.969264888	1.397358042	
MMAR_5109	lsr2	cell wall and cell processes	3192.73	2662.41	3408.91	1894.27	1644.54	2197.14	0	1	0.57142495	
MMAR_5368	fbaP	cell wall and cell processes	6270.93	5164.38	5902.18	3446.02	3507.05	4740.34	2.01E-05	0.999978959	0.633374103	
MMAR_5369	MMAR_5369-1	cell wall and cell processes	306.85	238.27	300	237.1	194.64	207.96	3.33E-16	1	0.714820219	
MMAR_5474	MMAR_5474-1	cell wall and cell processes	135.27	116.51	150.82	121.69	121.65	126.63	0.010170818	0.998926182	0.86994504	

## Conserved hypotheticals - 64 genes

GENE ID	GENE NAME	FUNCTION	FPKM						PPEE	PDPE	RealFC
			NORMAL Long			LSMMG Long					
			4days 35hr	4days 36hr	4days 37hr	4days 35hr	4days 36hr	4days 37hr	posterior probability that a transcript is equally expressed	posterior probability that a transcript is differentially expressed	real fold change is the ratio of the normalized mean count values for LSMMG over the normalized mean count values for normal
MMAR_0022	MMAR_0022-1	conserved hypotheticals	402.44	277.06	367.6	269.55	221.33	296.11	0.003395242	0.996604758	0.710831655
MMAR_0066	MMAR_0066-1	conserved hypotheticals	162.9	116.9	187.55	59.72	73.42	85.22	2.06E-10	1	0.440140731
MMAR_0119	MMAR_0119-1	conserved hypotheticals	11.24	14.18	8.29	22.62	20.47	18.97	0.03885181	0.961141819	1.692982422
MMAR_0120	MMAR_0120-1	conserved hypotheticals	13.88	20.12	20.99	38.53	34.96	47.5	1.04E-06	0.999995858	2.047772137
MMAR_0137	MMAR_0137-1	conserved hypotheticals	365.04	384.64	368.05	229.64	313.52	220.24	0.011026265	0.988976375	0.623991814
MMAR_0232	MMAR_0232-1	conserved hypotheticals	5.51	10.03	4.29	38.68	43.18	120.39	0.021674017	0.978325983	9.201334139
MMAR_0348	MMAR_0348-1	conserved hypotheticals	86.37	113.67	116.36	165.47	162.91	215.67	0.015951788	0.984002812	1.586854609
MMAR_0390	MMAR_0390-1	conserved hypotheticals	28.72	34.3	24.23	44.14	50.8	63.15	0.03455008	0.96544992	1.668774143
MMAR_0425	MMAR_0425-1	conserved hypotheticals	42.73	30.96	34.87	60.18	45.16	52.87	0.024405051	0.975979094	1.373621336
MMAR_0519	MMAR_0519-1	conserved hypotheticals	18.43	39.13	34.73	11.39	10.38	13.22	0.02074601	0.97915399	0.348932093
MMAR_0523	MMAR_0523-1	conserved hypotheticals	4.93	8.74	7.86	56.71	46.03	62.4	0	1	7.845206177
MMAR_0543	MMAR_0543-1	conserved hypotheticals	135.2	72.84	77.42	89.42	98.13	120.12	0	1	

Information pathways - 49 genes			FPKM							PPEE		PPDE		RealFC		
GENE ID	GENE NAME	FUNCTION	Fragments Per Kilobase of transcript per Million mapped reads.							posterior probability that a transcript is equally expressed	posterior probability that a transcript is differentially expressed	real fold change is the ratio of the normalized mean count values for LSMMG over the normalized mean count values for normal				
			NORMAL Long			LSMMG Long										
			4days 35hr	4days 36hr	4days 37hr	4days 35hr	4days 36hr	4days 37hr	4days 35hr							
MMAR_0072	rpsF	information pathways	1171.81	958.47	873.47	680.27	587.62	695.36	0.049184346	0.950815654	0.595072531	0.526538843	0.574294408			
MMAR_0073	ssb	information pathways	1930.78	2393.48	2190.63	1431.88	1596.45	1327.46	0.030875475	0.969124525	0.617030489	0.569324291	0.743862644	0.653032306	0.526538843	
MMAR_0074	rpsT	information pathways	1988.72	1498.71	1574.39	1026.09	1027.76	1069.74	8.78E-05	0.999912161	0.9999106551	0.743862644	0.653032306	0.526538843	0.569324291	
MMAR_0072	nusG	information pathways	1549.12	1531.28	1569.76	1151.99	1255.26	1303.34	0.000893449	0.9999106551	0.9999106551	0.743862644	0.653032306	0.526538843	0.569324291	
MMAR_0074	rplA	information pathways	2139.34	1648.12	1997.42	1182.04	1311.14	1531.62	4.49E-08	0.999999955	0.999999955	0.653032306	0.526538843	0.569324291	0.653032306	
MMAR_0075	MMAR_0975-1	information pathways	83.77	55.08	59.07	40.38	34.13	36.14	0.001717921	0.998282079	0.998282079	0.743862644	0.653032306	0.526538843	0.569324291	
MMAR_0090	rpl	information pathways	1812.82	1488.46	1752.78	970.46	977.79	1156.79	0	1	1	0.743862644	0.653032306	0.526538843	0.569324291	
MMAR_0091	rplC	information pathways	2262.43	2003.04	2151.18	1545.04	1700.01	1823.03	0.008875079	0.991124293	0.991124293	0.743862644	0.653032306	0.526538843	0.569324291	
MMAR_1012	rpsD	information pathways	1059.15	1755.57	2089.87	1475.98	1864.46	1808.9	0.008875079	0.991181092	0.991181092	0.743862644	0.653032306	0.526538843	0.569324291	
MMAR_1031	rplC	information pathways	4179.97	3120.62	4122.36	1971.62	2051.01	2696.71	1.54E-12	1	1	1	0.743862644	0.653032306	0.526538843	0.569324291
MMAR_1032	rplD	information pathways	3476.87	3285.67	3496.05	2070.38	2108.44	2315.41	0	1	1	0.743862644	0.653032306	0.526538843	0.569324291	
MMAR_1034	rplB	information pathways	3084.07	2508.48	2775.73	1790.7	1747.19	2045.37	2.08E-13	1	1	1	0.743862644	0.653032306	0.526538843	0.569324291
MMAR_1038	rplV	information pathways	827.53	527.57	843.95	445.54	416.85	603.87	0.026854044	0.973141596	0.973141596	0.743862644	0.653032306	0.526538843	0.569324291	
MMAR_1039	rplC	information pathways	6787.57	5427.75	5624.71	2986.55	4163.37	4145.9	0.008455232	0.999154478	0.999154478	0.743862644	0.653032306	0.526538843	0.569324291	
MMAR_1045	rplN	information pathways	2385.59	2276.86	2547.88	1766.07	1444.76	1676.43	0	1	1	0.743862644	0.653032306	0.526538843	0.569324291	
MMAR_1046	rpsN	information pathways	11883.41	11742.89	11744.89	7407.08	8901.35	8218.61	8.74E-09	0.999999991	0.999999991	0.743862644	0.653032306	0.526538843	0.569324291	
MMAR_1052	rpsE	information pathways	1276.37	1054.39	1454.81	738.48	762.45	1043.03	0.0001013	0.9998987	0.9998987	0.743862644	0.653032306	0.526538843	0.569324291	
MMAR_1053	rpmD	information pathways	4702.47	4310.74	5223.47	3245.51	3205.49	4167.28	0.00045073	0.999545927	0.999545927	0.743862644	0.653032306	0.526538843	0.569324291	
MMAR_1055	rplO	information pathways	3783.43	2802.81	3677.87	2538.22	2403.73	3114.57	0.010871182	0.989128818	0.989128818	0.730851457	0.656665658	0.526538843	0.569324291	
MMAR_1085	infA	information pathways	10464.68	10970.77	13649.37	7797.94	8511.49	9031.56	3.48E-06	0.999996519	0.999996519	0.743862644	0.653032306	0.526538843	0.569324291	
MMAR_1086	rpmJ	information pathways	4497.08	6141.56	5360.01	2532.38	2820.83	3741.77	0.028208217	0.971791783	0.971791783	0.743862644	0.653032306	0.526538843	0.569324291	
MMAR_1089	rpsD	information pathways	3894.96	3301.56	3165.25	2774.24	2365.64	2527.04	0.011908933	0.989809107	0.989809107	0.743862644	0.653032306	0.526538843	0.569324291	
MMAR_1090	rpoA	information pathways	2679.13	2197.72	2698.07	1529.53	1431.79	1779.22	0	1	1	0.743862644	0.653032306	0.526538843	0.569324291	
MMAR_1091	rplQ	information pathways	1834.17	1439.17	1920.4	1032.77	896.4	1228.78	1.11E-16	1	1	1	0.743862644	0.653032306	0.526538843	0.569324291
MMAR_1106	rplM	information pathways	6944.33	6779.29	6007.38	4058.25	4712.1	4132.67	0.01056793	0.98943207	0.98943207	0.743862644	0.653032306	0.526538843	0.569324291	
MMAR_1107	rplI	information pathways	1794.31	1431.37	1429.78	1005.12	998.23	1031.59	0.000166834	0.999831366	0.999831366	0.743862644	0.653032306	0.526538843	0.569324291	
MMAR_1334	sigh	information pathways	1048.48	1169.32	1044.65	1675.16	1809.3	1872.92	1.15E-06	0.999998846	0.999998846	0.743862644	0.653032306	0.526538843	0.569324291	
MMAR_1640	nrhD	information pathways	2346.28	2386.84	1711.27	4456.24	4803.78	4654.27	3.17E-11	1	1	1	0.94008677	1.94008677	1.94008677	1.94008677
MMAR_1641	ndl	information pathways	542.65	467.16	454.01	998.01	983.93	912.13	0	1	1	1	1.82815651	2.20793017	2.20793017	2.20793017
MMAR_1642	ndl	information pathways	1060.68	1219.41	1011.56	2370.32	2965.18	2443.75	3.62E-09	0.999999996	0.999999996	0.743862644	0.653032306	0.526538843	0.569324291	
MMAR_1728	rplP	information pathways	504.59	544.00	490.09	1000.09	1000.05	1000.05	1.80E-09	1	1	1	2.00793017	2.40793017	2.40793017	2.40793017
MMAR_1728	hupB	information pathways	3742.59	4039.4	5272.94	2901.38	3053.59	3222.13	0.010802020	0.989911792	0.989911792	0.743862644	0.653032306	0.526538843	0.569324291	
MMAR_1742	reG	information pathways	96.18	78.48	97.44	133.39	111.34	114.18	0.000430964	0.999569036	0.999569036	0.743862644	0.653032306	0.526538843	0.569324291	
MMAR_1799	rpsD	information pathways	1652.46	1301.98	1455.22	1090.4	904.4	1130.47	1.33E-06	0.999986668	0.999986668	0.743862644	0.653032306	0.526538843	0.569324291	
MMAR_1800	rnmM	information pathways	805.18	689.49	696.92	476.37	429.89	465.24	1.47E-10	1	1	1	0.580449705	0.656895878	0.656895878	0.656895878
MMAR_1802	trmD	information pathways	197.09	112.68	165.94	121.72	89.27	107.95	0.02972639	0.97027361	0.97027361	0.743862644	0.653032306	0.526538843	0.569324291	
MMAR_1823	tsf	information pathways	1718.48	1392.49	1611.78	1051.19	1019.95	1237.36	1.08E-13	1	1	1	0.656895878	0.735698974	0.735698974	0.735698974
MMAR_1924	gpsI	information pathways	1490.03	1339.51	1498.18	1141.01	1122.43	1116.63	0	1	1	1	1.736251917	2.062956884	2.062956884	2.062956884
MMAR_2170	alaS	information pathways	296.61	234.53	295.13	277.5	243.45	249.49	0.004749378	0.995520622	0.995520622	0.743862644	0.653032306	0.526538843	0.569324291	
MMAR_2433	rpsA	information pathways	5666.52	6107.7	6100.43	4135.9	4516.8	4589.24	0.005883392	0.994116608	0.994116608	0.743862644	0.653032306	0.526538843	0.569324291	
MMAR_2455	tsnR	information pathways	336.42	236	296.12	231.82	168.53	160.75	2.76E-05	0.999794242	0.999794242	0.743862644	0.653032306	0.526538843	0.569324291	
MMAR_3733	rptT	information pathways	1092.9	711.87	960.83	712.55	480.33	597	0.000929874	0.999070126	0.999070126	0.743862644	0.653032306	0.526538843	0.569324291	
MMAR_4104	argS	information pathways	315.28	231.06	281.12	230.22	235.05	233.58	0.003165317	0.996834683	0.996834683	0.743862644	0.653032306	0.526538843	0.569324291	
MMAR_4143	sbcD	information pathways	86.09	69.59	107.13	122.64	133.58	139.75	0.006098777	0.993901223	0.993901223	0.743862644	0.653032306	0.526538843	0.569324291	
MMAR_4216	sigE	information pathways	652.79	638.33	648.08	984.96	909.78	969.51	0	1	1	1	1.376251917	1.42840754	1.42840754	1.42840754
MMAR_4289	typA	information pathways	361.47	281.76	300.21	200.14	203.42	205.27	2.55E-08	0.999999975	0.999999975	0.743862644	0.653032306	0.526538843	0.569324291	
MMAR_4472	rplY	information pathways	1098.81	999.42	1155.98	684.04	700.16	839.35	0	1	1	1	0.638091609	0.761004966	0.761004966	0.761004966
MMAR_5240	dnaZX	information pathways	96.6	84.32	99.8	68.8	73.06	84.68	5.96E-05	0.999940405	0.999940405	0.743862644	0.653032306	0.526538843	0.569324291	
MMAR_5569	rnpA	information pathways	784.26	527.62	828.86	438.08	416.29	467.22	1.36E-07	0.999999864	0.999999864	0.743862644	0.653032306	0.526538843	0.569324291	

## Intermediary metabolism - 96 genes

GENE ID	GENE NAME	FUNCTION	FPKM						PPPE	PDPE	RealFC	
			NORMAL Long			LSMMG Long						
			4days 35hr	4days 36hr	4days 37hr	4days 35hr	4days 36hr	4days 37hr	posterior probability that a transcript is equally expressed	posterior probability that a transcript is differentially expressed	real fold change is the ratio of the normalized mean count values for LSMMG over the normalized mean count values for normal	
			4days 35hr	4days 36hr	4days 37hr	4days 35hr	4days 36hr	4days 37hr				
MMAR_0065	ino1	intermediary metabolism, and respiration	793.25	874.44	1035.72	427.81	473.62	636.12	1.06E-05	0.999989427	0.533198784	
MMAR_0107	celA	intermediary metabolism, and respiration	248.81	188.13	266.7	98.96	108.51	139.65	1	0.466519159	0.466519159	
MMAR_0324	pepA	intermediary metabolism, and respiration	292.55	257.77	320.24	230.46	205.46	276.88	0.010706665	0.989293335	0.769378128	
MMAR_0346	cyp138A3	intermediary metabolism, and respiration	68.44	79.05	58.38	144.16	172.14	251.17	0.001068413	0.999931587	2.554849194	
MMAR_0379	pntB	intermediary metabolism, and respiration	410.06	291.57	406.19	308.52	264.76	317.35	0.00025724	0.99974276	0.760828744	
MMAR_0516	nirB	intermediary metabolism, and respiration	9.81	11.25	14	4.6	6.77	6.52	1.24E-05	0.999987552	0.482279402	
MMAR_0550	mycP3	intermediary metabolism, and respiration	82.09	50.96	79.76	58.42	30.32	41.22	0.0110594	0.988989406	0.57791869	
MMAR_0724	lipQm	intermediary metabolism, and respiration	208.76	160.13	194.51	246.41	240.13	225.42	0.001564068	0.999845932	1.197565138	
MMAR_0780	putA_1	intermediary metabolism, and respiration	155.52	160.12	220.1	314.52	322.76	274.08	0.00043978	0.999556022	1.606868763	
MMAR_0829	idc	intermediary metabolism, and respiration	1320.50	267.96	256.96	146.37	273.67	307.4	9.07E-07	0.999999005	0.059767732	
MMAR_0842	hemA2	intermediary metabolism, and respiration	366.74	254.65	325.03	248.89	328.39	248.89	6.42E-06	0.999999936	0.653479765	
MMAR_0843	hemC	intermediary metabolism, and respiration	1805.01	1249.99	1889.72	775.71	859.8	904.76	0.04710927	0.985280973	0.76191775	
MMAR_0844	hemD	intermediary metabolism, and respiration	472.18	368	97.66	262.76	277.58	274.51	0	1	0.477967688	
MMAR_0848	hemB	intermediary metabolism, and respiration	438.89	320.73	388.24	327.53	234.1	254.08	0.000239692	0.999760308	0.667771102	
MMAR_0913	sulP	intermediary metabolism, and respiration	155.07	114.45	115.04	260.86	190.04	209.53	0.000319559	0.999690441	1.612432869	
MMAR_0914	sulP_1	intermediary metabolism, and respiration	65.83	69.46	71	119.4	109.14	102.62	7.42E-10	0.999999999	1.501931772	
MMAR_1041	atsA	intermediary metabolism, and respiration	319.85	271.94	274.47	388.41	409.02	397.08	0.000260468	0.999739532	1.295958252	
MMAR_1055	MMAR_1055-1	intermediary metabolism, and respiration	166.66	104.4	137.57	94.6	72.76	107.04	0.022600238	0.977399762	0.633034448	
MMAR_1079	mmSA	intermediary metabolism, and respiration	228.82	253.17	239.94	370.89	339.62	332.42	0.000364158	0.999635824	1.384053794	
MMAR_1109	mrsA	intermediary metabolism, and respiration	248.37	202.18	280.97	155.09	151.23	169.47	0	1	0.615004602	
MMAR_1183	MMAR_1183-1	intermediary metabolism, and respiration	433.54	327.26	516.54	810.24	853.24	947.72	4.77E-15	1	1.931542395	
MMAR_1188	metA	intermediary metabolism, and respiration	495.21	261.99	392.66	925.54	854.47	1042.09	0	1	2.33257389	
MMAR_1185	metC	intermediary metabolism, and respiration	742.19	642.33	693.71	150.69	248.12	2601.41	3.23E-05	0.999967697	3.004138688	
MMAR_1200	sdhB	intermediary metabolism, and respiration	407.5	394.58	427.96	350.3	386.38	369.36	0.00244864	0.99755136	0.813536653	
MMAR_1202	sdhB	intermediary metabolism, and respiration	302.31	208.49	288.71	174.36	167.3	234.19	0.0159748	0.9840252	0.672909096	
MMAR_1216	MMAR_1216-1	intermediary metabolism, and respiration	152.84	147.69	151.34	202.93	220.35	198.82	0.000722519	0.999727481	1.295542056	
MMAR_1240	pcd	intermediary metabolism, and respiration	65.88	50.4	47.45	114.69	78.03	105.3	0.00019547	0.99980453	1.70348685	
MMAR_1243	lat	intermediary metabolism, and respiration	50.57	21.77	26.18	137.54	151.71	230.76	4.57E-09	0.999999995	5.019373579	
MMAR_1251	acA3	intermediary metabolism, and respiration	366.48	332.84	486	297.71	265.96	323.16	0.04591207	0.954084793	0.707657957	
MMAR_1314	MMAR_1314-1	intermediary metabolism, and respiration	43.92	36.64	36.27	51.15	64.52	74.25	0.03807203	0.96192797	1.525810033	
MMAR_1379	atsD_1	intermediary metabolism, and respiration	82.2	75.61	71.24	116.77	99.98	97.83	0.045105339	0.954894661	1.26877663	
MMAR_1404	MMAR_1404-1	intermediary metabolism, and respiration	324.01	304.53	290.51	512.76	480.76	509.54	0	1	1.501931769	
MMAR_1693	MMAR_1693-1	intermediary metabolism, and respiration	39.05	49.63	85.59	135.38	129.54	119.42	0.000596132	0.999403868	2.050765648	
MMAR_1710	ihc1	intermediary metabolism, and respiration	401.84	402.4	419.84	285.7	309.38	360.7	0.015443336	0.984556644	0.732677734	
MMAR_1712	ihc2	intermediary metabolism, and respiration	1408.05	1184.12	1404.58	328.08	992.7	1147.89	7.78E-08	0.99999922	0.729446572	
MMAR_1749	pca	intermediary metabolism, and respiration	471.58	414.12	465.51	431.64	391.66	415.3	1.44E-07	0.999998536	0.863880057	
MMAR_1821	amcC	intermediary metabolism, and respiration	221.55	161.31	206.88	138.12	121.85	141.73	0	1	0.643449311	
MMAR_1926	pepR	intermediary metabolism, and respiration	765.23	660.46	660.41	495.46	469.16	477.93	1.59E-06	0.99999841	0.636809545	
MMAR_1986	hifX	intermediary metabolism, and respiration	84.02	71.13	92.6	153.15	124.4	155.66	1.22E-15	1	1.648181308	
MMAR_2202	gmk	intermediary metabolism, and respiration	983.53	802.32	1012.19	719.47	634.34	817.34	4.37E-08	0.999999956	0.725243021	
MMAR_2269	csd	intermediary metabolism, and respiration	379.98	404.75	375.42	207.92	216.01	197.04	9.94E-10	0.999999999	0.497963111	
MMAR_2277	trvB1	intermediary metabolism, and respiration	193.58	300.27	245.59	860.25	1155.43	1450.69	5.73E-09	0.999999994	4.26780008	
MMAR_2333	wcaA	intermediary metabolism, and respiration	359.19	339.75	421.97	367.55	309.59	303.59	0.040688902	0.953191098	0.821013897	
MMAR_2353	MMAR_2353-1	intermediary metabolism, and respiration	73.11	77.87	89.74	71.38	56.7	56.55	0.00473885	0.995266115	0.718241746	
MMAR_2403	MMAR_2403-1	intermediary metabolism, and respiration	207.6	126.36	180.33	142.64	117.04	122.58	0.042975788	0.957024212	0.703990195	
MMAR_2414	trpB	intermediary metabolism, and respiration	1215.91	1114.09	1302.09	1192.22	1179.27	1160.65	0.02051734	0.979482626	0.914596557	
MMAR_2434	coA6	intermediary metabolism, and respiration	1131.25	878.05	940.89	642.04	561.88	639.31	4.42E-09	0.999999996	0.586881334	
MMAR_2557	MMAR_2557-1	intermediary metabolism, and respiration	38.49	41.15	36.95	85.99	83.87	68.62	2.97E-09	0.999999997	1.906886499	
MMAR_2560	MMAR_2568-1	intermediary metabolism, and respiration	74.11	68.53	70.63	94.53	99.05	88.06	0.024291682	0.975708318	1.242559235	
MMAR_2570	MMAR_2570-1	intermediary metabolism, and respiration	38.32	28.89	34.79	52.92	45.52	68.44	0.035879997	0.964120003	1.537574015	
MMAR_2775	MMAR_2775-1	intermediary metabolism, and respiration	13.64	15.52	16.12	32.67	20.66	37.29	0.022983869	0.977016131	1.859229408	
MMAR_2836	MMAR_2836-1	intermediary metabolism, and respiration	27.07	19.86	28.89	67.28	60.7	60.7	0	1	2.417137656	
MMAR_2841	MMAR_2841-1	intermediary metabolism, and respiration	260.50	363.64	304.64	142.72	149	207.94	6.87E-09	0.999999993	0.546446469	
MMAR_2902	MMAR_2902-1	intermediary metabolism, and respiration	276.58	223.24	325.24	189.1	168.52	180.36	5.21E-11	1	0.656440306	
MMAR_2992	folE_1	intermediary metabolism, and respiration	217.31	303.16	212.17	52.63	478.49	455.39	4.18E-06	0.999998522	1.861712127	
MMAR_3294	glvA2	intermediary metabolism, and respiration	713.46	742.99	730.27	403.21	501.51	535.16	0.000194932	0.999805268	0.6165771	
MMAR_3299	panB	intermediary metabolism, and respiration	377.79	406.4	349.53	144.11	173.39	203.43	0.012446564	0.986556346	0.466535111	
MMAR_3555	MMAR_3555-1	intermediary metabolism, and respiration	1190.35	1568.78	741.53	84.21	149.32	100.74	0.000476253	0.999523747	0.087952775	
MMAR_3556	MMAR_3556-1	intermediary metabolism, and respiration	241.54	231.92	137.7	11.97	13.82	14.61	4.02E-06	0.999955984	0.063121154	
MMAR_3558	MMAR_3558-1	intermediary metabolism, and respiration	1156.85	1151.82	497.43	56.58	73.18	67.86	0.000579964	0.9949420036	0.064837573	
MMAR_3690	mbfB	intermediary metabolism, and respiration	42.7	34.26	37.16	67.12	52.76	51.03	0.008473736	0.991156264	1.417971701	
MMAR_3691	mbfE	intermediary metabolism, and respiration	44.93	32.78	31.78	71.2	66.95	107.29	0.005040434	0.994959566	2.111062549	
MMAR_3693	MMAR_3693-1	intermediary metabolism, and respiration	218.94	248.26	176.46	421.16	408.51	575.39	0.000161951	0.999838049	2.014045232	
MMAR_3697	mbfG	intermediary metabolism, and respiration	204.69	244.69	472.68	498.55	880.53	909.21	736.27	1.47E-06	0.99998526	1.906252317
MMAR_3700	MMAR_3701-1	intermediary metabolism, and respiration	22.49	21.82	25.86	46.72	56.37	40.53	0.000110684	0.999988196	1.924427421	
MMAR_3702	MMAR_3702-1	intermediary metabolism, and respiration	15.95	18.99	31.41	36.65	45.27	1.53E-05	0.999987472	1.997134706		
MMAR_3757	MMAR_3757-1	intermediary metabolism, and respiration	168.51	195.96	203.91	263.39	255.94	253.54	0.02708335	0.972919665	1.27664502	
MMAR_3765	ogl	intermediary metabolism, and respiration	419.19	243.44	344.49	219.96	185.32	232.88	0.005596786	0.994403214	0.601291182	
MMAR_3808	mobA	intermediary metabolism, and respiration	181.58	231.91	270.96	98.65	109.84	172.12	0.014608792	0.985391208	0.516995816	
MMAR_3802	porB	intermediary metabolism, and respiration	601.22	699.14	85.59	317.04	374.12	517.96	0.026434746	0.997356524	0.525970948	
MMAR_3803	porA	intermediary metabolism, and respiration	582.12	801.23	848.31	313.24						

Lipid metabolism - 36 genes			FPKM												PPEE			PPDE			RealFC		
GENE_ID	GENE_NAME	FUNCTION	Fragments Per Kilobase of transcript per Million mapped reads.						posterior probability that a transcript is equally expressed						posterior probability that a transcript is differentially expressed			real fold change is the ratio of the normalized mean count values for LSMMG over the normalized mean count values for normal					
			NORMAL Long			LSMMG Long			4days 35hr			4days 36hr			4days 37hr								
			4days 35hr	4days 36hr	4days 37hr	4days 35hr	4days 36hr	4days 37hr	4days 35hr	4days 36hr	4days 37hr	4days 35hr	4days 36hr	4days 37hr	4days 35hr	4days 36hr	4days 37hr						
MMAR_0336	desA3_2	lipid metabolism	536.96	427.89	199.01	1566.49	1873.72	1124.04	2.00E-06	0.999997996	0.999999999	3.642602765											
MMAR_0452	fadD4	lipid metabolism	184.2	191.01	224.91	131.61	136.29	145.83	7.05E-10	0.999999999	0.648063347												
MMAR_0466	MMAR_0466-1	lipid metabolism	30.21	24.8	23.46	45.8	44.63	34.57	0.037716856	0.962283144	1.495533171												
MMAR_0505	fadE5	lipid metabolism	616.17	817.57	1107.22	289.32	364.97	389.88	0.002419515	0.997580485	0.387481623												
MMAR_0700	fadD30	lipid metabolism	139.76	118.32	124.55	102.92	99.06	91.56	3.09E-05	0.999960958	0.721757377												
MMAR_0793	fadB2	lipid metabolism	453.04	581.71	679.78	242.89	273.24	320.54	1.29E-05	0.999987083	0.455910375												
MMAR_1154	lpqP	lipid metabolism	162.08	210.92	241.82	368.26	379.12	295.21	0.04198966	0.956801034	1.58020147												
MMAR_1259	MMAR_1259-1	lipid metabolism	10.89	6.91	11.35	5.64	5.52	7.79	0.010247034	0.989752966	0.621407258												
MMAR_1311	desA5	lipid metabolism	167.47	121.87	79.31	210.33	257.76	236.06	0.01707607	0.986292393	1.786156672												
MMAR_1601	fadE23	lipid metabolism	301.86	281.83	281.33	577.35	663.63	691.17	0	1	1.946152226												
MMAR_1761	fadD22	lipid metabolism	888.77	844.64	951.15	784.27	702.23	702.79	5.30E-07	0.999999047	0.777301767												
MMAR_1762	fadA35/1	lipid metabolism	421.34	376.72	537.39	311.02	294.39	326.72	3.53E-05	0.99996467	0.661086515												
MMAR_1772	psd5	lipid metabolism	439.78	393.21	385.76	289.2	266.48	239.8	3.53E-06	0.99996473	0.6143318196												
MMAR_1916	petti	lipid metabolism	205.96	255.66	264.8	214.9	209.68	177.99	8.71E-05	0.999912858	0.688814343												
MMAR_2117	fadD9	lipid metabolism	104.19	97.83	112.95	142.71	157.51	187.01	0.001647775	0.998356225	1.4588622323												
MMAR_2759	echA48_6	lipid metabolism	69.05	45.89	61.69	103.04	92.13	79.7	0.04558198	0.95441802	1.466677763												
MMAR_2936	fadD9_1	lipid metabolism	10.5	4.55	7.5	22.1	21.25	29.53	1.03E-11	1	3.09817775												
MMAR_2981	fabG3_1	lipid metabolism	80.12	62.38	77.18	153.17	131.86	106.79	0.000551164	0.999446836	1.574953012												
MMAR_3336	fabD	lipid metabolism	635.63	869.97	1049.36	480.73	424.55	407.45	0.002034913	0.997965087	0.479730319												
MMAR_3338	kasA	lipid metabolism	1573.14	2092.64	2899.76	747.93	795.98	1026.96	0.004082436	0.995195764	0.368151227												
MMAR_3339	kasB	lipid metabolism	1248.25	1486.74	2124.87	549.44	593.68	746.87	0.000178132	0.998821868	0.3664396												
MMAR_3340	accD6	lipid metabolism	540.4	799.22	1076.41	251.85	278.36	397.47	0.02421687	0.975773813	0.360483927												
MMAR_3691	mbtC	lipid metabolism	101.24	79.05	59.67	161.79	124.04	217.13	0.032679826	0.967320174	1.951597776												
MMAR_4030	MMAR_4030-1	lipid metabolism	108.31	132.99	110.52	224.87	227.3	249.15	2.23E-13	1	1.849925185												
MMAR_4031	MMAR_4031-1	lipid metabolism	62.41	70.35	66.86	126.23	104.48	134.47	1.09E-09	0.999999999	1.702509486												
MMAR_4032	MMAR_4032-1	lipid metabolism	34.45	35.61	34.69	73.72	72.31	73.66	6.13E-06	0.999993873	1.595434535												
MMAR_4033	fadI	lipid metabolism	72.2	70.27	68.83	103.54	148.22	132.99	0.002022377	0.997977623	1.696803576												
MMAR_4476	pks16	lipid metabolism	335.12	428.78	458.8	174.88	213.4	242.34	2.48E-05	0.999752328	0.482838698												
MMAR_4534	accA2	lipid metabolism	19.44	25.35	27.5	12.36	16.13	15.79	0.005373085	0.994626915	0.574627099												
MMAR_4535	fadT2	lipid metabolism	52.87	43.44	68.84	34.17	32.63	34.62	2.66E-05	0.9999374	0.581963699												
MMAR_4676	fadB	lipid metabolism	375.65	387.37	531.29	227.93	261.73	317.36	0.00571207	0.994284793	0.58932562												
MMAR_4691	echA4_2	lipid metabolism	288.44	265.22	260.35	204.79	212.49	227.69	0.023551829	0.970448171	0.738959202												
MMAR_5276	MMAR_5276-1	lipid metabolism	370.85	364.55	313.6	431.88	404.54	399.26	0.005027165	0.994972859	1.155071426												
MMAR_5275	fadD15_1	lipid metabolism	218.37	205.96	238.56	309.25	284.95	318.62	0	1	1.255071085												
MMAR_5364	pks13	lipid metabolism	375.79	409.53	410.43	232.69	230.13	266.34	1.68E-08	0.999999983	0.571739827												
MMAR_5365	fadD2	lipid metabolism	637.7	754.41	715.53	409.87	410.83	427.95	1.42E-05	0.99985813	0.553160388												
Regulatory proteins - 16 genes			FPKM												PPEE			PPDE			RealFC		
GENE_ID	GENE_NAME	FUNCTION	Fragments Per Kilobase of transcript per Million mapped reads.						posterior probability that a transcript is equally expressed						posterior probability that a transcript is differentially expressed			real fold change is the ratio of the normalized mean count values for LSMMG over the normalized mean count values for normal					
			NORMAL Long			LSMMG Long			4days 35hr			4days 36hr			4days 37hr								
			4days 35hr	4days 36hr	4days 37hr	4days 35hr	4days 36hr	4days 37hr	4days 35hr	4days 36hr	4days 37hr	4days 35hr	4days 36hr	4days 37hr	4days 35hr	4days 36hr	4days 37hr						
MMAR_0641	MMAR_0641-1	PE/PPE	18.49	13.01	15.19	38.71	38.86	62.54	9.84E-05	0.99990155	2.839722433												
MMAR_0761	MMAR_0761-1	PE/PPE	136.24	132.34	153.69	130.03	121.22	108.19	0.004837191	0.995162809	0.801774852												
MMAR_2591	MMAR_2591-1	PE/PPE	28.92	32.99	41.27	22.75	22.45	23.96	0.001398129	0.998601871	0.632025436												
MMAR_3443	MMAR_3443-1	PE/PPE	79.98	101.47	107.52	40.87	60.12	58.32	0.000186664	0.999811336	0.516249998												
MMAR_4561	MMAR_4561-1	PE/PPE	11.32	4.68	12.05	28.91	20.42	27.45	1.58E-08	0.999999984	2.634624715												
MMAR_4562	MMAR_4562-1	PE/PPE	52.14	31.7	73.45	131.93	116.14	135.65	2.43E-10	1	2.340629958												
MMAR_4899	MMAR_4899-1	PE/PPE	62.55	70.24	43.86	155.03	115.61	108.02	0.00067088	0.999932912	1.974062812												
MMAR_5448	MMAR_5448-1	PE/PPE	599.5	563.85	645.48	805.73	734.17	730.84	1.74E-05	0.99982579	1.177719623												
Virulence, adaptation and detoxification - 5 genes			FPKM												PPEE			PPDE			RealFC		
GENE_ID	GENE_NAME	FUNCTION	Fragments Per Kilobase of transcript per Million mapped reads.						posterior probability that a transcript is equally expressed						posterior probability that a transcript is differentially expressed			real fold change is the ratio of the normalized mean count values for LSMMG over the normalized mean count values for normal					
			NORMAL Long			LSMMG Long			4days 35hr			4days 36hr			4days 37hr								
			4days 35hr	4days 36hr	4days 37hr	4days 35hr	4days 36hr	4days 37hr	4days 35hr	4days 36hr	4days 37hr	4days 35hr	4days 36hr	4days 37hr	4days 35hr	4days 36hr	4days 37hr						
MMAR_0016	pknB	regulatory proteins	285.3	210.87	260.69	227.14	203.84	229.66	0.007193237	0.992806763	0.824932412												
MMAR_0108	MMAR_0108-1	regulatory proteins	88.52	69.91	91.18	41.01	42.52	67.17	0.000371183	0.999628817	0.565530357												
MMAR_0640	hspR	regulatory proteins	143.87	132.03	164.5	632.07	579.44	858.82	1.04E-14	1	4.38963467												
MMAR_0790	MMAR_0790-1	regulatory proteins	37.28	36.01	41.22	18.71	24.25	30.43	0.000219013	0.999780987	0.602912962												
MMAR_1132	whiB3	regulatory proteins	346.95	402.9	407.3	117.55	115.23	242.44	4.65E-07	0.99999535	0.376107149												
MMAR_1242	MMAR_1242-1	regulatory proteins	222.43	183.58	147.49	312.46	356.38	446.44	0.000924080	0.9997021592	1.857277355												
MMAR_1365	whiB7	regulatory proteins	111.73	70.4	65.32	186.01	180.87	336.32	0.048463761	0.951536329	2.59804091												
MMAR_2286	MMAR_2281-1	regulatory proteins	156.82	156.08	234.79	121.59	100.86	125.7	0.007247402	0.992747598	0.594980856												
MMAR_3454	MMAR_3454-1	regulatory proteins	218.11	166.2	235.56	118.48	156.64	181.15	0.034690044	0.965301956	0.691309161												
MMAR_3700	MMAR_3703-1	regulatory proteins	109.01	96.59	107.89	190.25	289.87	408.62	0.04859521	0.95140479	2.662893181												
MMAR_4325	MMAR_4325-1	regulatory proteins	75.19	70.09	65.41	115.86	104.78	107.42	7.33E-09	0.999999993	1.455162734												
MMAR_4577	pknD	regulatory proteins	51.19	50.84	62.13	106.01	90.83	73.13	0.000952686	0.999046732	1.577440885												
MMAR_4942	phoP	regulatory proteins	954.79	1013.72	1031.12	677.22	749.76	791.11	0.000182649	0.9998													