

Process	KO Number	Gene	Base Count	Log ₂ Fold Change ± SE					
				Hour 8		Hour 24		Hour 48	
Ammonium Transport	K03320	<i>amt</i>	26803	4.028	± 0.395	3.946	± 0.395	3.259	± 0.395
Assimilatory nitrate reduction	K00360	<i>nasB</i>	134	9.118	± 1.076	8.407	± 1.078	7.731	± 1.079
	K17877	<i>NIT-6</i>	48	8.082	± 1.120	6.589	± 1.126	4.927	± 1.138
	K10534	<i>NR</i>	24	6.909	± 1.082	6.142	± 1.089	2.909	± 1.146
	K00372	<i>nasA</i>	1096	5.757	± 0.441	5.484	± 0.442	4.432	± 0.442
	K00367	<i>narB</i>	48	7.295	± 1.095	6.263	± 1.099	3.542	± 1.124
	K00366	<i>nirA</i>	337	4.802	± 0.805	5.545	± 0.806	6.420	± 0.805
Nitrification	K10946	<i>pmoC-amoC</i>	8186	-1.587	± 0.897	-1.667	± 0.897	-0.490	± 0.897
	K10945	<i>pmoB-amoB</i>	2929	-1.331	± 0.691	-2.187	± 0.692	-0.856	± 0.691
	K10944	<i>pmoA-amoA</i>	3928	-2.125	± 0.745	-2.365	± 0.746	-1.122	± 0.745
	K10535	<i>hao</i>	111	-2.475	± 0.518	-2.687	± 0.529	-1.394	± 0.520
	K00371	<i>narH, narY, nxrB</i>	1570	-2.088	± 0.533	-2.348	± 0.533	-1.282	± 0.533
	K00370	<i>narG, narZ, nxrA</i>	2020	-2.322	± 0.597	-2.177	± 0.597	-0.492	± 0.597
Denitrification	K15864	<i>nirS</i>	25	-0.986	± 0.619	1.578	± 0.603	1.933	± 0.600
	K04561	<i>norB</i>	43	-1.004	± 0.505	0.001	± 0.509	-0.179	± 0.511
	K02568	<i>napB</i>	12	-1.049	± 1.160	2.834	± 1.126	1.138	± 1.145
	K02567	<i>napA</i>	176	-0.834	± 0.242	1.159	± 0.240	0.927	± 0.241
	K02305	<i>norC</i>	17	-0.357	± 0.618	0.916	± 0.620	0.972	± 0.621
	K00376	<i>nosZ</i>	85	-1.999	± 0.345	-0.509	± 0.345	-0.139	± 0.343
	K00374	<i>narI, narV</i>	47	0.073	± 0.512	3.286	± 0.495	3.513	± 0.494

	K00371	<i>narH, narY, nxrB</i>	1570	-2.088 ±	0.533	-2.348 ±	0.533	-1.282 ±	0.533
	K00370	<i>narG, narZ, nxrA</i>	2020	-2.322 ±	0.597	-2.177 ±	0.597	-0.492 ±	0.597
	K00368	<i>nirK</i>	3823	-1.888 ±	0.584	-2.652 ±	0.584	-1.362 ±	0.584
DNRA	K15876	<i>nrfH</i>	10	-0.390 ±	0.756	-1.253 ±	0.808	0.493 ±	0.767
	K03385	<i>nrfA</i>	34	-1.049 ±	0.421	-0.612 ±	0.431	-0.720 ±	0.434
	K02568	<i>napB</i>	12	-1.049 ±	1.160	2.834 ±	1.126	1.138 ±	1.145
	K02567	<i>napA</i>	176	-0.834 ±	0.242	1.159 ±	0.240	0.927 ±	0.241
	K00374	<i>narI, narV</i>	47	0.073 ±	0.512	3.286 ±	0.495	3.513 ±	0.494
	K00371	<i>narH, narY, nxrB</i>	1570	-2.088 ±	0.533	-2.348 ±	0.533	-1.282 ±	0.533
	K00370	<i>narG, narZ, nxrA</i>	2020	-2.322 ±	0.597	-2.177 ±	0.597	-0.492 ±	0.597
	K00363	<i>nirD</i>	873	6.184 ±	0.481	6.306 ±	0.481	6.065 ±	0.481
	K00362	<i>nirB</i>	3230	7.702 ±	0.421	7.426 ±	0.421	6.538 ±	0.421
GDH	K00262	<i>EC 1.4.1.4, gdhA</i>	111	1.542 ±	0.312	0.494 ±	0.320	-0.108 ±	0.325
	K00261	<i>EC 1.4.1.3 GLUD1_2, gdhA</i>	469	-0.991 ±	0.299	-0.837 ±	0.301	-0.532 ±	0.300
	K00260	<i>EC 1.4.1.2 gudB, rocG</i>	26	-0.809 ±	0.899	2.326 ±	0.884	2.229 ±	0.884
	K15371	<i>EC 1.4.1.2 GDH2</i>	310	0.820 ±	0.433	1.350 ±	0.434	0.696 ±	0.435
GS-GOGAT	K01915	<i>glnA, GLUL</i>	26238	2.809 ±	0.314	2.395 ±	0.314	1.819 ±	0.314
	K00284	<i>GLU, gltS</i>	1376	2.412 ±	0.230	1.604 ±	0.231	0.930 ±	0.232
	K00266	<i>gltD</i>	1491	2.962 ±	0.310	1.781 ±	0.310	1.075 ±	0.311
	K00265	<i>gltB</i>	3365	3.762 ±	0.289	3.048 ±	0.289	2.295 ±	0.289
	K00264	<i>GLT1</i>	68	3.656 ±	0.513	3.458 ±	0.518	2.059 ±	0.527
Nitrate assimilation	K15579	<i>nrtD, cynD</i>	4	2.792 ±	1.739	3.859 ±	1.747	2.931 ±	1.769
	K15578	<i>nrtC, nasD</i>	474	9.289 ±	1.051	9.549 ±	1.051	7.181 ±	1.053
	K15577	<i>nrtB, nasE, cynB</i>	610	8.921 ±	0.935	9.277 ±	0.935	7.470 ±	0.936
	K15576	<i>nrtA, nasF, cynA</i>	1493	10.200 ±	0.968	10.556 ±	0.968	9.010 ±	0.969

	K02575	<i>NRT, narK, nrtP, nasA</i>	1447	6.643 ± 0.514	6.875 ± 0.514	5.552 ± 0.515
Nitrogen fixation	K02591	<i>nifK</i>	25	-1.209 ± 1.693	7.529 ± 1.410	3.941 ± 1.437
	K02588	<i>nifH</i>	203	-0.598 ± 1.512	8.980 ± 1.441	2.648 ± 1.464
	K02586	<i>nifD</i>	54	1.049 ± 1.622	8.684 ± 1.557	3.640 ± 1.589