

Table S5. Summary of transcriptome sequence data. #reads, raw reads. #QC, number of reads passing quality control. QC%, percent of reads passing quality control. rRNA, number of reads identified as rRNA, %rRNA, percent of reads identified as rRNA, MTST5, number of reads identified as internal standard 5. MTST6, number of reads identified as internal standard 6. MTST_total, sum of MTST5 and MTST6 reads. std%, percent of reads identified as internal standards. #ReadsLeft, mRNA reads remaining for analysis. n.a., not applicable.

ID	Sample	#reads	#QC	QC%	rRNA	rRNA%	MTST5	MTST6	MTST_total	std%	#ReadsLeft
E05	Co-culture experiment, Night1-1	13,498,405	12,363,245	91.59	3,406,623	27.6	166,618	608,592	775,210	6.3	8,181,412
F04	Co-culture experiment, Night1-2	15,502,853	14,168,744	91.39	2,786,395	19.7	140,544	482,014	622,558	4.4	10,759,791
F02	Co-culture experiment, Mid-morning1-1	16,837,562	15,353,979	91.19	1,712,502	11.2	129,664	403,709	533,373	3.5	13,108,104
E01	Co-culture experiment, Mid-morning1-2	17,807,607	16,244,554	91.22	3,132,687	19.3	176,739	576,341	753,080	4.6	12,358,787
E10	Co-culture experiment, Mid-morning1-3	19,910,294	18,205,466	91.44	2,953,724	16.2	115,098	270,503	385,601	2.1	14,866,141
F03	Co-culture experiment, Noon1-1	19,275,856	17,722,932	91.94	1,164,010	6.6	115,767	324,058	439,825	2.5	16,119,097
D08	Co-culture experiment, Noon1-2	19,685,509	18,037,235	91.63	1,825,730	10.1	312,628	990,970	1,303,598	7.2	14,907,907
E02	Co-culture experiment, Noon1-3	19,408,658	17,720,533	91.30	966,890	5.5	81,101	241,754	322,855	1.8	16,430,788
E11	Co-culture experiment, Mid-afternoon1-1	20,885,480	19,054,538	91.23	3,581,342	18.8	324,456	959,900	1,284,356	6.7	14,188,840
E12	Co-culture experiment, Mid-afternoon1-2	17,557,260	16,073,027	91.55	3,914,892	24.4	261,021	719,276	980,297	6.1	11,177,838
E03	Co-culture experiment, Mid-afternoon1-3	16,977,882	15,523,460	91.43	1,406,118	9.1	348,476	1,057,642	1,406,118	9.1	12,711,224
D12	Co-culture experiment, Night2-1	23,851,789	22,079,516	92.57	7,073,693	32.0	233,505	1,014,268	1,247,773	5.7	13,758,050
F07	Co-culture experiment, Night2-2	19,469,653	17,836,736	91.61	3,663,942	20.5	197,821	734,821	932,642	5.2	13,240,152
F09	Co-culture experiment, Night2-3	31,934,931	29,269,343	91.65	5,338,425	18.2	479,384	1,609,432	2,088,816	7.1	21,842,102

D10	Co-culture experiment, Mid-morning2-1	20,554,827	18,824,484	91.58	2,744,962	14.6	186,059	571,690	757,749	4.0	15,321,773
D11	Co-culture experiment, Mid-morning2-2	13,279,747	12,174,740	91.68	1,927,329	15.8	203,698	551,681	755,379	6.2	9,492,032
E04	Co-culture experiment, Mid-morning2-3	14,605,987	13,367,467	91.52	2,215,170	16.6	109,203	347,448	456,651	3.4	10,695,646
E06	Co-culture experiment, Noon2-1	19,722,654	18,019,139	91.36	1,623,225	9.0	136,858	395,528	532,386	3.0	15,863,528
E08	Co-culture experiment, Noon2-2	28,885,375	26,482,283	91.68	1,079,553	4.1	117,326	323,826	441,152	1.7	24,961,578
F06	Co-culture experiment, Noon2-3	21,993,618	20,024,426	91.05	2,301,998	11.5	165,550	518,511	684,061	3.4	17,038,367
E09	Co-culture experiment, Mid-afternoon2-1	22,556,906	20,538,846	91.05	3,499,739	17.0	334,172	1,166,834	1,501,006	7.3	15,538,101
F08	Co-culture experiment, Mid-afternoon2-2	19,472,311	17,798,623	91.40	2,893,773	16.3	191,917	749,108	941,025	5.3	13,963,825
D09	Co-culture experiment, Mid-afternoon2-3	13,658,878	12,514,100	91.62	3,167,132	25.3	266,044	762,316	1,028,360	8.2	8,318,608
E07	Co-culture experiment, Night3-1	18,841,406	17,419,067	92.45	6,766,726	38.8	147,411	492,285	639,696	3.7	10,012,645
F01	Co-culture experiment, Night3-2	15,647,403	14,312,249	91.47	2,959,371	20.7	145,088	638,394	783,482	5.5	10,569,396
F05	Co-culture experiment, Night3-3	16,962,656	15,604,901	92.00	4,147,196	26.6	220,930	803,400	1,024,330	6.6	10,433,375
0-1	Direct light experiment, light level 0%-1	25,586,505	24,300,490	94.97	6,613,045	27.2	n.a.	n.a.	n.a.	n.a.	17,687,445
0-2	Direct light experiment, light level 0%-2	31,663,480	30,051,703	94.91	10,646,884	35.4	n.a.	n.a.	n.a.	n.a.	19,404,819
0-3	Direct light experiment, light level 0%-3	26,282,421	24,902,417	94.75	9,821,337	39.4	n.a.	n.a.	n.a.	n.a.	15,081,080
50-1	Direct light experiment, light level 50%-1	32,174,743	30,533,445	94.90	6,613,045	21.7	n.a.	n.a.	n.a.	n.a.	21,524,552
50-2	Direct light experiment, light level 50%-2	29,926,762	28,405,710	94.92	10,646,884	37.5	n.a.	n.a.	n.a.	n.a.	17,997,524
50-3	Direct light experiment, light level 50%-3	23,998,399	22,748,705	94.79	9,821,337	43.2	n.a.	n.a.	n.a.	n.a.	11,800,777

100-1	Direct light experiment, light level 100%-1	26,526,300	25,152,623	94.82	6,613,045	26.3	n.a.	n.a.	n.a.	n.a.	15,731,031
100-2	Direct light experiment, light level 100%-2	30,378,955	28,845,621	94.95	10,646,884	36.9	n.a.	n.a.	n.a.	n.a.	16,872,089
100-3	Direct light experiment, light level 100%-3	33,568,541	30,855,170	91.92	9,821,337	31.8	n.a.	n.a.	n.a.	n.a.	19,179,745
