

Additional file 1

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Table S1. Water physicochemical parameters

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Table S6. Alpha diversity per sample

Table S1. Water physicochemical parameters monitored during the experiment. Measurements were performed once a week (N = 28) and are reported as ranges (minimal – maximal values) except for oxygen saturation (threshold value).

Water parameters	Measurements
pH	6.4 - 6.8
Carbonate hardness (°dH)	0 - 6
General hardness (°dH)	0 - 8
Nitrite (ppm)	0
Nitrate (ppm)	10 - 50
Cl ₂ (ppm)	0 - 1.5
Oxygen saturation (%)	> 80

Table S2. Fluoride and tebuconazole concentrations were evaluated in each aquarium. Water was sampled nine times during the experiment, in triplicates for fluoride and duplicates for tebuconazole. Concentrations (mean ± SD) are expressed in mg/L for fluoride (N = 27; LOQ = 0.05 mg/L) and µg/L for tebuconazole (N = 18; LOQ = 1 µg/L).

Treatment condition	Concentration F ⁻ (mg/L); Tbz (µg/L)
Control	< LOQ (Fluoride & Tebuconazole)
F1	6.84 ± 1.47
F2	24.70 ± 5.24
Tbz	51.73 ± 36.09

Table S3. Samples used in this study. Water samples included 3 replicates per treatment; gill samples, 12 per treatment; skin samples, 11 in the control and 12 in F1, F2 and Tbz; and gut samples, 11 in the control, F2 and Tbz and 10 in F1.

Fish ID	Sample ID	Treatment	Environment	Tissue	Sex
101	G101	Control	Fish	Gill	Male
	S101			Skin	
	I101			Intestine	
102	G102	Control	Fish	Gill	Male
	S102			Skin	
	I102			Intestine	
103	G103	Control	Fish	Gill	Female
	S103			Skin	
	I103			Intestine	
104	G104	Control	Fish	Gill	Male
	S104			Skin	
	I104			Intestine	
105	G105	Control	Fish	Gill	Female
	S105			Skin	
	I105			Intestine	
106	G106	Control	Fish	Gill	Male
	S106			Skin	
	I106			Intestine	
107	G107	Control	Fish	Gill	Female
	S107			Skin	
	I107			Intestine	
108	G108	Control	Fish	Gill	Female
	S108			Skin	
	I108			Intestine	
109	G109	Control	Fish	Gill	Male
	S109			Skin	
	I109			Intestine	
110	G110	Control	Fish	Gill	Female
	S110			Skin	
	I110			Intestine	
111	G111	Control	Fish	Gill	Female
	S111			Skin	

	I111			Intestine	
	G112			Gill	
112	S112	Control	Fish	Skin	Male
	I112			Intestine	
	G128			Gill	
128	S128	F1	Fish	Skin	Female
	I128			Intestine	
	G129			Gill	
129	S129	F1	Fish	Skin	Male
	I129			Intestine	
	G130			Gill	
130	S130	F1	Fish	Skin	Female
	I130			Intestine	
	G131			Gill	
131	S131	F1	Fish	Skin	Male
	I131			Intestine	
	G132			Gill	
132	S132	F1	Fish	Skin	Female
	I132			Intestine	
	G133			Gill	
133	S133	F1	Fish	Skin	Male
	I133			Intestine	
	G134			Gill	
134	S134	F1	Fish	Skin	Male
	I134			Intestine	
	G135			Gill	
135	S135	F1	Fish	Skin	Male
	I135			Intestine	
	G136			Gill	
136	S136	F1	Fish	Skin	Female
	I136			Intestine	
	G137			Gill	
137	S137	F1	Fish	Skin	Female
	I137			Intestine	
	G138			Gill	
138	S138	F1	Fish	Skin	Male
	I138			Intestine	

139	G139	F1	Fish	Gill	Male
	S139			Skin	
	I139			Intestine	
155	G155	F2	Fish	Gill	Male
	S155			Skin	
	I155			Intestine	
156	G156	F2	Fish	Gill	Male
	S156			Skin	
	I156			Intestine	
157	G157	F2	Fish	Gill	Male
	S157			Skin	
	I157			Intestine	
158	G158	F2	Fish	Gill	Female
	S158			Skin	
	I158			Intestine	
159	G159	F2	Fish	Gill	Female
	S159			Skin	
	I159			Intestine	
160	G160	F2	Fish	Gill	Female
	S160			Skin	
	I160			Intestine	
161	G161	F2	Fish	Gill	Male
	S161			Skin	
	I161			Intestine	
162	G162	F2	Fish	Gill	Female
	S162			Skin	
	I162			Intestine	
163	G163	F2	Fish	Gill	Female
	S163			Skin	
	I163			Intestine	
164	G164	F2	Fish	Gill	Female
	S164			Skin	
	I164			Intestine	
165	G165	F2	Fish	Gill	Female
	S165			Skin	
	I165			Intestine	
166	G166	F2	Fish	Gill	Female

	S166			Skin	
	I166			Intestine	
	G182			Gill	
182	S182	Tbz	Fish	Skin	Female
	I182			Intestine	
	G183			Gill	
183	S183	Tbz	Fish	Skin	Female
	I183			Intestine	
	G184			Gill	
184	S184	Tbz	Fish	Skin	Female
	I184			Intestine	
	G185			Gill	
185	S185	Tbz	Fish	Skin	Female
	I185			Intestine	
	G186			Gill	
186	S186	Tbz	Fish	Skin	Male
	I186			Intestine	
	G187			Gill	
187	S187	Tbz	Fish	Skin	Male
	I187			Intestine	
	G188			Gill	
188	S188	Tbz	Fish	Skin	Male
	I188			Intestine	
	G189			Gill	
189	S189	Tbz	Fish	Skin	Female
	I189			Intestine	
	G190			Gill	
190	S190	Tbz	Fish	Skin	Female
	I190			Intestine	
	G191			Gill	
191	S191	Tbz	Fish	Skin	Female
	I191			Intestine	
	G192			Gill	
192	S192	Tbz	Fish	Skin	Male
	I192			Intestine	
	G193			Gill	
193	S193	Tbz	Fish	Skin	Male

I193	Intestine	
W107		
W108	Control	Water
W109		
W110		
W111	F1	Water
W112		
W113		
W114	F2	Water
W115		
W116		
W117	Tbz	Water
W118		

Table S4. Number of reads per samples at different stages of processing.

Sample ID	No reads after ASV affiliation	No reads after microDecon	No reads after chloroplast removal	No reads after removal of unaffiliated ASV (phylum, order and class levels)	No of reads final
G101	198,653	198,653	198,172	198,172	198,172
G102	254,170	254,170	251,406	251,406	251,406
G103	238,600	238,600	235,054	235,054	235,054
G104	201,802	198,978	198,978	198,978	198,978
G105	109,579	109,130	109,110	109,035	109,035
G106	129,304	129,222	128,209	128,087	128,087
G107	225,977	225,911	225,911	225,793	225,793
G108	112,950	112,538	112,538	112,199	112,199
G109	265,908	265,853	265,645	265,439	265,439
G110	233,572	233,476	233,476	233,311	233,311
G111	190,440	190,200	190,087	190,087	190,087
G112	294,801	294,653	293,036	293,036	293,036
G128	251,037	250,524	250,524	250,080	250,080
G129	363,144	363,144	363,144	363,113	363,113
G130	430,635	430,635	430,635	430,635	430,635
G131	351,548	351,548	351,379	351,166	351,166
G132	437,759	437,731	436,402	436,311	436,311
G133	284,741	284,741	284,187	283,860	283,860
G134	195,943	195,943	195,006	195,006	195,006
G135	248,343	248,343	247,209	247,133	247,133
G136	152,089	152,089	150,961	150,730	150,730
G137	223,471	223,471	223,263	223,094	223,094
G138	367,946	367,911	367,911	367,400	367,400
G139	289,782	289,782	289,761	289,652	289,652
G155	138,542	138,542	138,542	138,542	138,542
G156	196,911	196,741	196,663	196,663	196,663
G157	177,601	177,591	177,577	177,502	177,502
G158	147,237	147,166	147,166	147,166	147,166
G159	165,272	165,262	164,838	164,787	164,787
G160	115,884	115,825	115,772	115,772	115,772
G161	184,403	184,356	183,898	183,652	183,652
G162	230,359	230,326	230,193	230,040	230,040
G163	160,148	160,148	160,127	160,101	160,101
G164	166,574	166,574	166,471	165,974	165,974
G165	81,813	81,813	81,785	81,717	81,717
G166	126,632	126,612	126,591	126,546	126,546
G182	223,520	223,479	222,981	222,981	222,981
G183	243,220	243,176	243,176	243,152	243,152

G184	197,290	197,290	197,290	197,226	197,226
G185	260,304	260,304	260,165	260,165	260,165
G186	161,786	161,771	161,611	161,287	161,287
G187	122,609	122,603	122,503	122,182	122,182
G188	176,894	176,894	176,894	176,894	176,894
G189	255,860	255,856	255,856	255,856	255,856
G190	217,669	217,669	217,669	217,610	217,610
G191	170,762	170,762	170,754	170,666	170,666
G192	179,400	179,400	179,400	179,400	179,400
G193	256,450	256,422	256,390	256,390	256,390
I101	263,393	262,915	73,735	70,856	70,856
I102	153,501	152,883	51,497	49,868	49,868
I103	284,060	283,647	82,946	80,123	80,123
I104	354,124	353,370	97,533	93,869	93,869
I105	107,046	102,571	26,269	25,139	25,139
I106	523,343	522,753	171,109	165,329	165,329
I107	330,498	329,734	92,112	89,635	89,635
I108	357,449	357,406	126,865	124,152	124,152
I109	6,731	3,329	2,171	2,171	NA
I110	98,348	97,538	33,941	33,585	33,585
I111	70,035	68,885	26,887	26,674	26,674
I112	235,251	233,937	57,147	54,463	54,463
I128	44,800	41,794	15,445	12,492	NA
I129	133,944	124,763	47,876	46,819	46,819
I130	292,089	292,037	95,468	91,733	91,733
I131	85,134	82,972	33,591	21,134	21,134
I132	61,969	48,911	45,761	20,433	20,433
I133	333,019	332,878	151,312	147,369	147,369
I134	371,650	370,968	95,670	91,785	91,785
I135	316,651	316,540	103,250	100,876	100,876
I136	289,623	289,232	91,333	86,367	86,367
I137	232,045	230,890	71,409	68,197	68,197
I138	295,819	295,490	81,881	77,963	77,963
I139	19,857	16,766	12,458	12,458	NA
I155	298,705	298,467	93,678	89,328	89,328
I156	197,955	197,549	45,769	43,686	43,686
I157	249,076	247,357	136,139	135,258	135,258
I158	155,708	154,704	42,412	40,369	40,369
I159	301,873	300,909	74,258	71,508	71,508
I160	283,639	282,945	89,663	86,174	86,174
I161	207,898	207,408	42,818	41,278	41,278
I162	243,228	242,744	56,084	54,233	54,233
I163	274,206	273,333	70,977	66,394	66,394
I164	342,239	341,379	127,241	123,447	123,447
I165	35,126	23,469	16,653	16,653	NA
I166	97,947	97,888	26,282	24,802	24,802
I182	223,013	222,743	56,439	54,196	54,196
I183	151,303	150,443	37,491	36,558	36,558

I184	250,481	249,965	76,600	74,199	74,199
I185	271,244	263,344	62,763	61,682	61,682
I186	327,516	324,394	81,084	77,239	77,239
I187	230,810	229,682	62,729	61,111	61,111
I188	254,742	254,496	254,299	254,299	254,299
I189	130,860	121,367	120,444	120,093	120,093
I190	328,224	327,837	114,209	111,225	111,225
I191	181,914	181,805	180,079	180,079	180,079
I192	264,122	262,914	102,439	99,638	99,638
I193	18,674	17,021	3,685	3,521	NA
S101	285,178	285,104	281,516	281,406	281,406
S102	127,082	126,922	126,915	126,823	126,823
S103	142,046	141,569	140,869	140,608	140,608
S104	200,539	200,291	200,291	200,291	200,291
S105	185,939	185,604	185,604	185,604	185,604
S106	175,618	175,559	175,559	175,559	175,559
S107	218,298	218,239	218,181	217,960	217,960
S109	254,117	253,878	253,878	253,481	253,481
S110	190,475	190,475	190,475	190,286	190,286
S111	161,738	161,728	161,728	161,728	161,728
S112	168,548	168,524	168,409	168,409	168,409
S128	127,670	127,663	127,663	127,633	127,633
S129	134,804	134,611	134,575	134,498	134,498
S130	212,690	212,608	212,608	212,321	212,321
S131	268,605	268,465	268,062	268,036	268,036
S132	186,715	186,715	186,695	186,496	186,496
S133	120,491	120,448	120,080	119,892	119,892
S134	181,968	179,985	158,639	158,320	158,320
S135	145,860	145,705	145,670	145,526	145,526
S136	131,558	131,507	126,727	126,166	126,166
S137	68,314	67,089	65,957	65,322	65,322
S138	244,362	244,105	243,778	243,250	243,250
S139	285,207	284,673	283,426	283,342	283,342
S155	253,993	253,956	253,956	253,956	253,956
S156	260,952	260,497	260,497	259,861	259,861
S157	265,698	265,698	265,435	265,435	265,435
S158	129,367	127,634	127,592	127,546	127,546
S159	231,627	231,627	231,416	230,725	230,725
S160	284,004	283,408	283,408	281,578	281,578
S161	163,975	163,738	163,738	163,738	163,738
S162	214,596	214,455	214,394	214,302	214,302
S163	203,456	203,394	203,317	203,117	203,117
S164	241,520	241,211	241,150	240,718	240,718
S165	274,029	273,904	273,632	273,632	273,632
S166	210,189	209,948	209,948	209,696	209,696
S182	202,782	202,477	202,477	201,869	201,869
S183	116,946	116,627	116,175	116,175	116,175
S184	197,531	197,489	197,333	197,213	197,213

S185	235,854	235,786	235,153	234,910	234,910
S186	145,553	145,233	145,233	145,233	145,233
S187	168,013	167,850	167,805	167,786	167,786
S188	214,191	214,191	214,191	214,102	214,102
S189	248,638	248,302	248,302	247,784	247,784
S190	224,129	223,924	223,790	223,790	223,790
S191	214,886	214,878	214,765	214,718	214,718
S192	298,235	298,227	298,227	297,786	297,786
S193	121,006	120,654	120,654	118,779	118,779
W107	274,860	270,099	270,029	270,023	270,023
W108	236,019	230,889	230,788	230,781	230,781
W109	162,482	159,131	159,131	159,131	159,131
W110	195,728	189,266	188,893	188,853	188,853
W111	172,027	164,543	164,435	164,423	164,423
W112	187,221	180,700	180,560	180,516	180,516
W113	129,591	118,450	118,444	118,444	118,444
W114	215,897	202,312	202,298	202,298	202,298
W115	180,214	166,045	166,045	166,045	166,045
W116	217,475	205,164	204,803	204,790	204,790
W117	132,708	124,207	124,098	124,060	124,060
W118	151,941	140,769	140,722	140,703	140,703
MOOC-1	167,949	NA	NA	NA	NA
MOOC-2	140,154	NA	NA	NA	NA
MOOC-3	215,829	NA	NA	NA	NA
MOOC-4	124,558	NA	NA	NA	NA
MOOC-5	136,510	NA	NA	NA	NA
P1-bPCR1-A1	NA	NA	NA	NA	NA
P1-bPCR1-H1	NA	NA	NA	NA	NA
P2-bPCR1-A1	8,928	NA	NA	NA	NA
P2-bPCR1-H2	31,661	NA	NA	NA	NA
P3-bPCR1-A1	27,146	NA	NA	NA	NA
P3-bPCR1-H3	9,052	NA	NA	NA	NA
P4-bPCR1-A1	23,482	NA	NA	NA	NA
P4-bPCR1-H4	14,935	NA	NA	NA	NA
P5-bPCR1-A1	31,564	NA	NA	NA	NA
P5-bPCR1-H5	6,493	NA	NA	NA	NA
P6-bPCR1-A1	14,123	NA	NA	NA	NA

P6-bPCR1-H6	11,607	NA	NA	NA	NA
P7-bPCR1-A1	46,007	NA	NA	NA	NA
P7-bPCR1-H7	48,165	NA	NA	NA	NA
P8-bPCR1-A1	63,373	NA	NA	NA	NA
P8-bPCR1-H8	NA	NA	NA	NA	NA
BMQ1	176,844	NA	NA	NA	NA
BMQ2	112,592	NA	NA	NA	NA
BPF2	90,681	NA	NA	NA	NA
BPF3	20,275	NA	NA	NA	NA
BPF5	13,089	NA	NA	NA	NA
W20	294,200	NA	NA	NA	NA
W50	192,186	NA	NA	NA	NA

Table S5. Number of taxa per taxonomical level for each sample.

Sample ID	Phylum	Class	Order	Family	Genus	Species	ASV
G101	11	13	25	32	36	16	98
G102	15	18	34	47	64	26	166
G103	8	9	25	34	50	18	106
G104	13	14	30	37	56	25	132
G105	7	8	20	27	44	15	93
G106	13	15	31	44	58	22	144
G107	13	15	38	53	82	31	243
G108	12	14	32	43	71	24	165
G109	16	19	45	68	104	34	297
G110	16	20	44	67	93	33	277
G111	12	14	33	53	80	30	215
G112	15	18	38	54	78	28	218
G128	13	14	32	45	58	20	129
G129	12	14	34	57	86	32	249
G130	10	12	25	35	48	15	119
G131	10	11	29	47	65	23	144
G132	16	20	46	70	105	35	329
G133	19	22	48	74	106	40	333
G134	15	18	35	55	75	27	215
G135	8	11	30	43	59	19	125
G136	15	17	43	65	98	28	266
G137	14	16	39	58	88	31	243
G138	12	15	36	54	73	24	178
G139	14	16	36	59	74	27	181
G155	12	15	33	51	72	28	179
G156	12	14	35	55	73	28	221
G157	16	18	45	67	97	35	281
G158	10	12	31	46	65	20	162
G159	14	18	43	63	97	34	301
G160	13	15	37	52	76	30	223
G161	14	17	43	66	103	35	317
G162	13	16	39	63	92	30	261
G163	14	17	42	66	99	38	309
G164	16	22	48	74	108	39	312
G165	17	21	47	73	109	39	296
G166	12	16	38	60	90	32	246
G182	12	16	37	57	74	28	210
G183	12	15	38	60	88	35	254
G184	16	21	50	71	102	32	292
G185	13	15	36	55	78	25	174
G186	16	20	46	70	96	34	264
G187	15	18	40	60	79	26	218
G188	12	14	37	52	73	25	170
G189	11	14	36	55	69	25	161

G190	11	14	37	49	73	32	211
G191	14	18	41	58	86	28	227
G192	16	20	45	62	90	32	264
G193	11	13	31	48	76	22	195
I101	3	5	10	14	25	13	60
I102	3	5	11	18	27	9	66
I103	4	6	14	23	35	14	87
I104	3	5	12	18	29	15	73
I105	2	3	4	4	7	3	17
I106	4	6	17	23	38	15	98
I107	3	6	11	13	24	12	65
I108	4	6	18	26	33	12	91
I110	3	4	10	11	18	4	31
I111	3	3	6	9	12	6	25
I112	3	5	9	11	19	8	40
I129	4	6	6	7	8	3	14
I130	5	8	22	31	45	17	114
I131	3	5	11	17	26	11	43
I132	2	3	6	6	7	3	7
I133	7	11	29	43	62	19	144
I134	5	7	20	28	37	12	87
I135	5	7	19	26	37	14	93
I136	4	6	17	27	41	15	106
I137	3	5	13	17	28	12	74
I138	6	8	21	33	48	18	108
I155	6	8	19	30	44	16	110
I156	4	6	11	17	27	9	65
I157	4	7	14	19	25	9	52
I158	5	7	13	17	26	8	61
I159	4	6	16	24	34	13	91
I160	5	7	19	28	39	13	100
I161	3	5	7	11	17	9	43
I162	5	7	14	20	30	10	76
I163	3	5	12	16	25	8	60
I164	6	8	20	30	39	15	105
I166	4	6	12	18	29	12	69
I182	5	7	20	27	40	16	87
I183	4	7	9	11	21	9	52
I184	4	6	16	20	31	14	79
I185	5	6	9	10	11	5	31
I186	4	6	13	16	21	7	54
I187	4	5	10	12	23	10	55
I188	5	5	5	5	5	3	9
I189	2	3	4	4	4	1	7
I190	5	7	18	25	40	17	83
I191	4	5	13	16	16	7	39
I192	5	7	19	23	37	12	74
S101	15	18	41	59	85	30	258

S102	9	13	29	49	64	24	156
S103	11	13	25	36	51	26	136
S104	9	12	26	38	50	24	169
S105	12	13	31	44	63	27	171
S106	13	17	37	54	70	27	205
S107	16	21	45	66	92	36	283
S109	14	21	42	63	93	39	310
S110	15	20	44	65	90	35	285
S111	14	19	38	59	83	35	244
S112	13	17	38	51	71	28	172
S128	12	16	39	63	90	36	256
S129	13	15	37	61	84	37	247
S130	10	14	34	53	76	29	208
S131	16	19	39	63	93	36	266
S132	15	19	45	61	87	31	256
S133	14	16	38	59	82	27	215
S134	11	17	35	53	79	27	202
S135	13	18	39	63	84	27	231
S136	16	17	38	57	87	33	238
S137	12	15	31	52	71	23	153
S138	14	19	42	71	97	36	287
S139	12	16	38	65	95	31	260
S155	14	17	43	68	101	36	302
S156	12	17	35	55	93	33	262
S157	8	12	26	37	54	17	131
S158	11	15	34	49	74	28	224
S159	10	14	34	52	78	30	225
S160	13	17	34	58	84	31	234
S161	14	18	41	60	85	28	242
S162	13	17	38	59	94	40	263
S163	14	18	43	64	98	40	278
S164	14	20	44	69	110	44	330
S165	15	19	42	64	85	30	246
S166	11	15	35	46	68	25	198
S182	12	16	39	61	92	39	277
S183	14	17	39	58	82	35	216
S184	11	13	35	53	83	27	222
S185	13	17	37	56	86	35	266
S186	13	16	37	56	88	30	240
S187	16	20	41	64	95	33	270
S188	14	20	37	61	90	39	247
S189	13	19	39	57	83	34	242
S190	10	12	32	45	71	25	203
S191	14	19	41	59	88	33	253
S192	12	18	39	65	97	36	286
S193	10	12	33	45	65	25	153
W107	16	22	49	72	106	30	324
W108	15	19	46	71	104	33	326

W109	15	20	44	65	94	30	275
W110	16	22	51	72	109	37	307
W111	17	23	49	71	110	37	341
W112	15	20	48	70	107	38	319
W113	14	19	42	64	90	36	301
W114	16	23	48	68	102	40	349
W115	16	23	49	72	105	38	335
W116	18	24	50	71	106	43	355
W117	17	23	51	72	105	38	322
W118	18	25	53	74	107	41	345

Table S6. Alpha diversity indexes (Observed, Chao1, Shannon) per sample.

Sample ID	Observed	Chao1	Shannon
G101	98	98.0	1.71
G102	166	166.0	3.22
G103	106	106.0	2.70
G104	132	132.0	2.94
G105	93	93.0	2.26
G106	144	144.0	3.36
G107	243	243.0	3.31
G108	165	165.0	4.02
G109	297	298.5	3.37
G110	277	280.0	2.92
G111	215	215.5	3.14
G112	218	221.0	2.94
G128	129	129.0	1.84
G129	249	249.0	2.14
G130	119	119.0	1.04
G131	144	144.0	1.93
G132	329	335.0	2.67
G133	333	334.0	3.14
G134	215	216.5	2.35
G135	125	125.0	0.78
G136	266	266.0	3.16
G137	243	244.0	2.69
G138	178	178.0	1.22
G139	181	181.0	1.65
G155	179	179.0	2.45
G156	221	221.0	2.44
G157	281	281.5	3.62
G158	162	162.0	2.88
G159	301	301.0	3.47
G160	223	223.0	2.80
G161	317	317.0	3.56
G162	261	261.2	3.37
G163	309	309.0	3.65
G164	312	312.5	3.95
G165	296	298.0	4.06
G166	246	246.0	3.73
G182	210	210.0	2.27
G183	254	254.0	2.75
G184	292	292.0	3.69
G185	174	174.5	2.28
G186	264	267.0	3.46
G187	218	219.0	3.09
G188	170	170.0	1.89
G189	161	161.0	1.10
G190	211	211.3	2.39

G191	227	233.0	2.84
G192	264	264.5	3.33
G193	195	195.0	2.64
S101	258	258.0	2.95
S102	156	156.0	2.43
S103	136	137.5	2.68
S104	169	169.0	2.11
S105	171	171.0	2.30
S106	205	206.0	2.89
S107	283	288.0	2.94
S109	310	310.0	3.77
S110	285	285.5	3.45
S111	244	244.0	3.14
S112	172	172.5	2.10
S128	256	256.0	3.75
S129	247	250.0	3.35
S130	208	208.0	3.39
S131	266	267.0	2.79
S132	256	256.0	3.29
S133	215	218.0	2.70
S134	202	202.0	3.70
S135	231	231.0	3.99
S136	238	253.0	3.72
S137	153	153.0	3.57
S138	287	288.0	3.90
S139	260	262.0	2.43
S155	302	303.0	3.92
S156	262	262.0	4.31
S157	131	131.0	2.16
S158	224	224.3	3.85
S159	225	225.0	3.94
S160	234	237.0	3.12
S161	242	242.0	3.52
S162	263	263.0	3.92
S163	278	281.0	3.88
S164	330	333.0	4.46
S165	246	246.0	3.77
S166	198	198.0	3.39
S182	277	277.0	4.11
S183	216	216.0	3.46
S184	222	222.0	4.09
S185	266	266.0	3.06
S186	240	240.0	3.85
S187	270	273.0	3.54
S188	247	247.0	3.09
S189	242	243.0	3.46
S190	203	206.0	3.61
S191	253	253.0	3.34

S192	286	286.0	3.52
S193	153	153.0	3.33
I101	60	60.0	3.03
I102	66	66.0	3.13
I103	87	87.0	2.87
I104	73	73.0	2.69
I105	17	17.0	1.98
I106	98	98.0	3.08
I107	65	65.0	2.44
I108	91	91.0	2.88
I110	31	31.0	2.59
I111	25	25.0	2.41
I112	40	40.0	2.17
I129	14	14.0	1.81
I130	114	114.0	3.41
I131	43	43.0	2.87
I132	7	7.0	1.81
I133	144	144.0	3.48
I134	87	87.0	2.96
I135	93	93.0	3.21
I136	106	106.0	3.07
I137	74	74.0	3.09
I138	108	108.0	3.37
I155	110	110.0	2.98
I156	65	65.0	2.53
I157	52	52.0	1.87
I158	61	61.0	2.32
I159	91	91.0	2.75
I160	100	100.0	3.12
I161	43	43.0	2.40
I162	76	76.0	2.69
I163	60	60.0	2.64
I164	105	105.0	3.09
I166	69	69.0	2.74
I182	87	87.0	2.91
I183	52	52.0	2.60
I184	79	79.0	2.95
I185	31	31.0	2.08
I186	54	54.0	2.63
I187	55	55.0	2.80
I188	9	9.0	0.50
I189	7	7.0	0.61
I190	83	83.0	2.54
I191	39	39.0	1.55
I192	74	74.0	3.28
W107	324	324.0	2.56
W108	326	326.0	2.80
W109	275	275.3	2.45

W110	307	307.0	2.35
W111	341	341.0	2.91
W112	319	320.0	2.38
W113	301	301.0	3.24
W114	349	349.0	3.28
W115	335	335.0	3.46
W116	355	355.3	3.56
W117	322	322.0	3.57
W118	345	345.5	3.78
