

附录 I 基于棉花参比种质筛选的 SSR 核心引物及相关多态性信息

Appendix I SSR core primers screened from 5,914 primers used for identification of cotton cultivars on a cotton panel and relative polymorphism information

引物名称 Primer	所属染色体或 连锁群 Chromosome or linkage group	退火温度 Annealing temperature (T_m)	参比种质 Panel					陆地棉		其他	
			Panel等位基因 多态信息含量 Allelic polymorphism information content (PIC)	Panel基因型 多样性 (H') Genotype polymorphism	Panel有效等 位基因数(N_e) Effective number of alleles	Panel等位 基因数 No. of allelic loci	Panel多态性 等位基因 No. of polymorphic allelic	等位 基因数 No. of allelic loci in upland lines	多态性 等位基因数 No. of polymorphic allelic loci in upland lines	棉种 等位基因数 No. of allelic loci among other species	棉种多态性 等位基因数 No. of polymorphic allelic loci among other species
BNL1015		57	0.837	1.945	6.125	8	7	7	6	6	5
BNL1026		54	0.861	2.117	7.209	10	10	7	4	7	7
BNL1034	11,17,21	54	0.826	1.900	5.740	8	8	5	4	8	8
BNL1040	13,18	56	0.889	2.349	9.000	13	13	8	6	10	10
BNL1053	5,21,LGA03	58	0.847	2.036	6.553	10	10	7	5	6	6
BNL119	20	56	0.789	1.700	4.737	7	7	5	4	5	5
BNL1227	12,26	58	0.844	2.088	6.422	11	11	6	5	7	7
BNL1317	9,23	53	0.845	1.960	6.451	8	8	6	5	5	5
BNL1421	13,18	55	0.894	2.389	9.397	14	14	7	3	14	14
BNL1440	6,8,25	55	0.811	1.806	5.297	7	7	5	4	5	5
BNL1495	13,18	53	0.806	1.694	5.149	5	5	4	4	5	5
BNL1513	24	56	0.842	1.998	6.330	9	9	8	7	6	6
BNL1517	25	56	0.882	2.315	8.442	12	12	8	7	6	6
BNL1580	3,21	57	0.843	1.952	6.373	8	8	4	4	4	4
BNL1604	7,16	57	0.813	1.777	5.342	7	7	3	2	5	5
BNL1669	9,26	55	0.782	1.604	4.588	6	5	5	2	5	4
BNL1694	7,16	55	0.879	2.200	8.291	10	10	6	5	7	7
BNL193	12,18	57	0.818	1.946	5.497	9	9	6	6	4	4
BNL226	3,14	57	0.871	2.161	7.734	10	10	5	2	8	8
BNL243	18	57	0.864	2.175	7.364	11	11	6	3	7	7
BNL2449	10,13	55	0.883	2.260	8.583	12	12	9	7	11	11
BNL2485		56	0.810	1.754	5.263	7	7	5	2	6	6
BNL252	9,19,24	55	0.857	2.138	7.014	11	11	7	7	9	9

BNL2590	9,23	55	0.878	2.191	8.198	10	10	6	4	6	6
BNL2646	7,9,15	55	0.715	1.480	3.512	6	6	4	3	3	3
BNL3033	15	55	0.749	1.580	3.986	6	5	5	4	3	2
BNL3048	17	55	0.848	2.094	6.596	11	11	6	4	10	10
BNL3140	23	55	0.797	1.761	4.923	7	7	6	4	4	4
BNL3261	12	56	0.860	2.087	7.161	10	8	8	3	7	5
BNL3383	23,26,LGD09	56	0.893	2.341	9.332	12	12	12	8	8	8
BNL3474	8,9,24,26	53	0.852	2.065	6.744	10	10	6	4	8	8
BNL3502	14	55	0.837	1.878	6.128	7	7	4	4	4	4
BNL358	22	53	0.917	2.569	11.985	15	15	9	1	12	12
BNL3590	2,8,17	57	0.864	2.143	7.360	11	10	8	4	8	7
BNL3650	6,LGA06	53	0.881	2.224	8.430	11	11	8	4	8	7
BNL3806	25,LGD06,LGA06	55	0.789	1.757	4.741	7	6	4	2	4	3
BNL3976	5,21	57	0.771	1.601	4.359	6	5	6	4	4	3
BNL4030	5,22	57	0.792	1.659	4.804	6	6	4	2	6	6
BNL448	22	57	0.863	2.107	7.283	10	8	8	1	8	6
BNL511	9	57	0.893	2.317	9.308	12	12	9	8	10	10
BNL530	4	57	0.904	2.433	10.464	13	13	9	4	13	13
BNL542	5,21	53	0.874	2.163	7.949	10	10	5	4	9	9
BNL827	25	57	0.899	2.341	9.936	11	11	10	8	9	9
BNL830	15	53	0.714	1.375	3.495	5	5	4	2	3	3
BNL834	17	55	0.893	2.348	9.321	12	12	8	4	6	6
BNL946	20	56	0.896	2.377	9.624	12	12	12	7	5	4
CIR139	19	51	0.647	1.203	2.829	4	3	2	0	3	2
CIR167	6,26	50	0.838	1.956	6.171	8	8	3	0	7	7
CIR246	14	51	0.850	2.004	6.651	9	9	6	5	8	8
CIR249	4	51	0.859	2.012	7.111	8	8	6	6	7	7
CIR307	15,LGD01	51	0.774	1.590	4.430	6	6	4	2	5	5
CIR32	26	51	0.722	1.410	3.596	5	5	3	0	4	4
CIR328	5	51	0.827	2.011	5.780	10	10	6	5	9	9

CIR332	3,LGA03	51	0.893	2.345	9.368	12	12	6	2	12	12
CIR353	9	53	0.874	2.235	7.954	12	12	8	5	8	8
CIR62	5,19	51	0.824	1.934	5.694	9	8	5	2	6	5
CIR78	26	50	0.808	1.768	5.213	7	5	4	0	6	4
CM162		55	0.895	2.423	9.564	14	14	9	5	9	9
CM45		56	0.746	1.564	3.930	6	6	4	3	4	4
CM51		58	0.816	1.777	5.442	7	7	4	0	6	6
CM61		57	0.792	1.667	4.813	6	6	3	3	3	3
CM67		57	0.819	1.752	5.538	6	6	3	2	5	5
CSHES29		55	0.724	1.494	3.629	7	6	3	0	7	6
CSHES32		53	0.719	1.391	3.564	5	4	3	0	4	4
CSHES51		57	0.840	1.888	6.259	7	7	4	3	4	4
CSHES62		55	0.753	1.654	4.041	7	6	7	6	3	2
CSHES82		53	0.726	1.410	3.645	5	5	4	3	4	4
DPL209	11	59	0.897	2.362	9.672	13	13	12	9	9	9
DPL216	2	58	0.801	1.685	5.026	6		4	0	6	6
DPL220	8	58	0.881	2.382	8.399	14	13	10	8	9	8
DPL225	20	58	0.853	1.982	6.782	8	8	6	2	6	6
DPL234		58	0.872	2.160	7.803	10	10	7	7	8	8
DPL238	6	59	0.858	2.094	7.043	10	10	5	2	9	9
DPL249	18	58	0.852	1.975	6.768	8	8	5	4	6	6
DPL253	11	58	0.759	1.558	4.149	6	4	5	1	3	1
DPL262	23	58	0.811	1.832	5.303	8	8	5	2	7	7
DPL283	16	58	0.728	1.642	3.674	8	7	2	0	7	6
DPL300	15	58	0.773	1.616	4.412	6	6	5	4	4	4
DPL325	11	58	0.790	1.659	4.765	6	6	3	2	4	4
DPL354	17	59	0.864	2.200	7.339	11	11	7	6	6	6
DPL431	10	57	0.735	1.433	3.769	5	5	4	4	2	2
DPL46	2	58	0.858	2.114	7.053	10	10	6	2	9	9
DPL461	24	58	0.826	1.885	5.762	8	8	4	4	4	4

DPL511	16	58	0.867	2.162	7.529	11	11	7	4	7	7
DPL513	1	59	0.816	1.881	5.444	9	9	6	4	5	4
DPL519	25	58	0.722	1.570	3.600	7	7	2	0	6	6
DPL528	21	58	0.905	2.416	10.492	12	12	8	6	10	10
DPL570	11	58	0.851	2.032	6.714	9	9	6	2	9	9
DPL681	6	57	0.727	1.559	3.658	7	7	4	3	3	2
DPL69	26	60	0.692	1.125	3.245	4	4	3	2	3	3
DPL71	19	58	0.707	1.484	3.413	6	6	4	3	4	4
DPL73	14	59	0.844	1.984	6.408	9	8	6	0	7	6
DPL799	25	59	0.807	1.915	5.172	9	9	6	5	4	4
DPL910	18	56	0.870	2.250	7.704	12	12	6	6	8	8
GH110		56	0.881	2.251	8.395	11	11	7	7	4	4
GH111		56	0.877	2.284	8.133	13	13	7	6	12	12
GH112		58	0.873	2.217	7.903	11	11	6	5	11	11
GH132		58	0.852	1.995	6.744	8	8	4	0	6	6
GH158		58	0.837	2.008	6.146	9	9	5	2	9	9
GH220		58	0.675	1.333	3.077	5	5	3	2	4	4
GH243		60	0.764	1.608	4.233	6	5	3	0	5	4
GH247		60	0.886	2.233	8.779	10	10	9	7	8	8
GH268		60	0.790	1.651	4.766	6	6	2	0	5	5
GH273		57	0.648	1.072	2.844	3	3	3	3	3	3
GH277		58	0.659	1.313	2.935	5	5	5	5	2	1
GH32		60	0.798	1.698	4.962	6	6	3	0	4	4
GH34		58	0.780	1.685	4.546	7	7	5	3	5	
GH447		58	0.819	1.849	5.528	8	8	7	6	5	5
GH532		56	0.870	2.206	7.718	11	10	9	7	7	6
GH56		55	0.823	1.986	5.635	10	9	7	4	4	3
GH59		55	0.901	2.394	10.117	12	12	6	1	10	10
GH60		57	0.776	1.550	4.455	5	5	2	0	5	5
GH70		55	0.870	2.107	7.716	9	9	5	2	9	8

GH72		57	0.828	1.964	5.797	9	9	6	4	5	5
GH75		56	0.855	2.077	6.914	10	10	7	7	6	6
JESPR101	2,8	56	0.817	1.837	5.454	8	7	4	3	6	5
JESPR102	15,16	55	0.758	1.466	4.129	5	5	4	3	5	5
JESPR114	23,LGD09	58	0.842	2.070	6.333	11	11	9	8	5	5
JESPR133		55	0.882	2.089	8.471	10	10	7	3	8	8
JESPR138		55	0.716	1.427	3.522	5	4	2	0	5	4
JESPR156	14,21	58	0.780	2.324	4.540	13	13	10	7	8	8
JESPR158	21,LGA03	57	0.891	2.298	9.195	11	11	7	4	5	5
JESPR204	5,13,18,19	57	0.887	2.311	8.828	12	12	9	6	6	6
JESPR208	9,23	54	0.885	2.264	8.699	11	11	6	3	10	10
JESPR222		58	0.810	1.794	5.261	7	7	3	3	7	7
JESPR227	25	57	0.801	1.868	5.031	9	9	5	2	7	7
JESPR231	3,14	57	0.867	2.092	7.506	9	9	6	4	5	5
JESPR247	6	55	0.768	1.661	4.319	8	8	5	2	6	6
JESPR274	9,23,24	61	0.753	1.480	4.050	5	5	3	1	4	4
JESPR42		57	0.810	1.772	5.261	7	7	3	2	5	5
JESPR45		57	0.610	1.110	2.564	4	4	2	0	3	3
JESPR50	5,LGA04,LGD06	56	0.873	2.113	7.881	9	9	4	0	8	8
MGHES08		57	0.817	1.779	5.473	6	5	6	1	6	6
MGHES16	21,LGA03	55	0.812	1.857	5.315	9	7	5	1	8	6
MGHES18		58	0.846	1.522	6.480	7	7	4	1	6	6
MGHES38	LGA03	54	0.743	2.281	3.890	13	13	6	2	10	10
MGHES40		56	0.766	1.700	4.269	7	6	7	6	3	2
MGHES41		55	0.794	2.081	4.861	8	8	3	2	8	8
MGHES46		56	0.842	2.008	6.345	10	10	5	0	8	8
MGHES58	7	57	0.870	2.255	7.697	13	13	5	2	11	11
MGHES70	9	57	0.907	2.429	10.777	12	12	10	9	8	8
MGHES73	9	60	0.819	1.893	5.528	8	8	4	3	8	8
MUCS101	4	57	0.762	1.572	4.197	6	6	6	5	4	3

MUCS127	3	55	0.717	2.101	3.531	10	9	10	9	5	4
MUCS347	21	57	0.834	1.982	6.025	9	9	3	0	8	7
MUCS466		58	0.779	1.552	4.521	5	4	4	0	5	4
MUCS530	11	58	0.735	1.442	3.769	5	4	5	2	5	4
MUSS130		60	0.856	1.996	6.928	8	7	6	0	8	7
MUSS138		57	0.859	2.051	7.067	9	9	7	3	8	8
MUSS422	10	56	0.860	2.064	7.141	9	9	5	4	9	9
MUSS440	15	58	0.900	2.375	9.979	12	12	9	9	8	7
MUSS46		58	0.771	1.572	4.360	6	4	5	1	4	2
MUSS59		57	0.859	2.005	7.084	8	8	7	5	8	8
MUSS65		57	0.837	1.936	6.149	8	6	8	6	6	4
NAU1014	9,11	53	0.886	2.301	8.744	12	12	5	2	12	12
NAU1015	5	53	0.852	2.141	6.748	12	12	3	0	12	12
NAU1017	8,24	55	0.826	1.834	5.762	7	70	4	3	7	7
NAU1027	6,19	53	0.845	2.149	6.450	11	11	5	4	11	11
NAU1028	17,23	55	0.895	2.387	9.483	13	13	7	4	12	12
NAU1042	5,19	55	0.783	1.709	4.605	7	7	4	3	7	7
NAU1043	7,LGA07	55	0.881	2.193	8.400	10	10	8	6	10	9
NAU1048	7,11	53	0.832	1.898	5.938	8	7	6	4	8	6
NAU1053	7	53	0.850	1.997	6.651	9	9	6	2	9	9
NAU1070	3,9	55	0.897	2.368	9.665	12	12	8	7	11	11
NAU1085		55	0.882	2.227	8.495	11	11	7	6	10	10
NAU1093	LGA06	57	0.896	2.371	9.656	12	12	8	5	9	9
NAU1102	LGD05	53	0.893	2.299	9.333	11	11	9	2	10	10
NAU1103		57	0.815	1.941	5.402	9	8	9	8	3	2
NAU1125	19	53	0.820	1.846	5.558	8	8	5	4	7	7
NAU1155		55	0.763	1.586	4.212	7	7	7	6	3	1
NAU1167	3,8,17,LGA03	55	0.880	2.154	8.345	9	9	9	9	8	8
NAU1169	3,10,20	53	0.856	2.041	6.942	9	9	7	5	7	7
NAU1186		55	0.803	1.728	5.085	7	7	7	6	4	4

NAU1187	LGD05	55	0.794	1.684	4.861	6	6	5	4	4	4
NAU1190	3,16,LGA03	53	0.863	2.066	7.316	9	9	5	3	7	7
NAU1196		55	0.859	2.075	7.078	9	9	7	6	5	5
NAU1200	LGA05	55	0.848	1.984	6.568	8	8	7	7	6	6
NAU1201	13,14	55	0.710	1.398	3.447	5	5	2	2	5	5
NAU1222	7,20,23	55	0.667	1.242	3.000	4	4	1	0	4	4
NAU1225	7	53	0.832	1.921	5.965	8	8	5	4	5	5
NAU1230	LGD05	55	0.812	1.793	5.321	7	7	5	4	4	4
NAU1233	10	55	0.875	2.374	8.004	14	13	10	9	8	7
NAU1248	3,20	55	0.815	1.782	5.411	7	7	4	0	6	6
NAU1255	LGD05	55	0.829	1.852	5.841	7	7	5	4	4	4
NAU1269	LGD05	55	0.864	2.082	7.364	9	9	6	6	5	5
NAU1273		53	0.830	1.781	5.880	6	6	6	2	5	4
NAU1302	3,5,24	51	0.904	2.459	10.421	13	12	10	8	8	7
NAU1322	24	55	0.891	2.419	9.188	14	14	11	11	8	8
NAU1336	8,19	57	0.830	1.847	5.882	7	7	4	0	7	7
NAU1356		52	0.874	2.203	7.934	12	11	7	0	11	8
NAU1362	7	55	0.901	2.459	10.140	14	14	8	5	7	7
NAU1366	3,5,21	55	0.902	2.458	10.240	14	14	11	7	11	11
NAU1369	8,9,24	53	0.770	1.678	4.356	7	7	5	4	4	4
NAU1379		55	0.860	2.051	7.165	9	9	7	5	8	8
NAU2026	12,LGD04	55	0.881	2.186	8.395	10	10	8	5	8	8
NAU2083	1	57	0.837	1.977	6.125	9	9	7	6	3	3
NAU2108	7	56	0.842	1.926	6.341	8	7	5	0	8	7
NAU2120	22	58	0.845	2.001	6.472	9	9	5	2	8	8
NAU2126	22	59	0.840	2.026	6.231	10	10	7	5	7	7
NAU2139	19	55	0.857	2.059	7.000	9	9	6	4	7	7
NAU2152	11,16,17	53	0.880	2.341	8.308	14	14	5	2	12	12
NAU2156	6	55	0.853	2.118	6.818	11	11	5	4	9	9
NAU2162	22	55	0.885	2.246	8.668	11	11	8	4	7	7

NAU2173	14	53	0.736	1.434	3.789	5	5	3	1	5	5
NAU2190	14	53	0.823	2.267	5.657	9	9	6	2	5	5
NAU2251	12,26	55	0.844	1.944	6.400	8	8	7	6	4	4
NAU2257	11	55	0.874	2.198	7.963	11	11	7	5	8	8
NAU2272	5,14	53	0.846	2.076	6.504	10	10	7	5	7	7
NAU2274	19	55	0.764	1.690	4.245	8	8	7	6	5	5
NAU2277	2	57	0.847	1.961	6.541	8	8	5	5	8	8
NAU2308	7	55	0.813	1.729	5.355	6	6	3	0	6	6
NAU2336	14	55	0.813	1.872	5.333	8	8	5	4	6	6
NAU2342		55	0.817	1.794	5.452	7	7	6	5	6	6
NAU2343		56	0.778	1.809	4.500	9	8	8	7	4	3
NAU2361	21	56	0.710	1.400	3.448	5	5	3	2	3	3
NAU2398		55	0.892	2.327	9.256	12	12	4	0	9	9
NAU2494	5	55	0.828	1.975	5.823	10	10	6	3	6	6
NAU2508		53	0.785	1.573	4.655	5	5	5	3	5	5
NAU2600		53	0.868	2.151	7.564	10	10	5	4	8	8
NAU2604	19	55	0.701	1.285	3.346	4	3	4	1	2	1
NAU2631	24	53	0.838	1.937	6.158	8	8	7	6	6	6
NAU2654	4	53	0.885	2.295	8.674	12	11	9	7	10	9
NAU2679	6,25,LGD06	57	0.908	2.498	10.813	14	14	6	4	9	9
NAU2741	1,19	52	0.722	1.418	3.593	5	4	4	3	4	3
NAU2776	10,20	55	0.719	1.317	3.558	4	4	4	3	3	3
NAU2782	22	55	0.908	2.490	10.912	14	14	10	3	7	7
NAU2816	19	55	0.812	1.721	5.319	6	6	5	1	5	5
NAU2820	7,16	55	0.849	2.038	6.627	10	10	5	1	10	10
NAU2836	3,17	55	0.844	1.994	6.391	9	9	6	3	5	5
NAU2898	17	55	0.811	1.944	5.294	9	9	6	5	4	4
NAU3013	10	57	0.799	1.733	4.971	7	7	4	1	5	5
NAU3018	13	57	0.791	1.694	4.787	7	6	5	2	6	5
NAU3096	5,19	53	0.768	1.611	4.304	6	5	6	4	4	3

NAU3100	23	55	0.847	2.034	6.542	10	9	8	4	5	4
NAU3102		52	0.507	0.953	2.027	4	4	4	4	1	0
NAU3127	4	57	0.739	1.448	3.835	5	5	3	2	5	5
NAU3212	5	53	0.904	2.438	10.365	13	13	5	3	10	9
NAU3225	14	53	0.853	2.093	6.818	10	10	5	3	6	6
NAU3254	1	53	0.828	1.891	5.806	9	8	9	6	5	4
NAU3305	26	56	0.860	2.130	7.143	10	10	6	5	5	5
NAU3308	14	53	0.786	1.657	4.672	6	5	5	2	4	3
NAU3325	5	56	0.785	1.732	4.661	7	6	5	4	4	3
NAU3414	9,23	53	0.760	1.575	4.173	6	4	5	3	4	2
NAU3419	2	57	0.852	2.021	6.737	9	9	6	4	8	8
NAU3427	6	55	0.897	2.334	9.727	11	11	8	4	7	7
NAU3467	10	55	0.739	1.469	3.835	6	5	4	1	5	4
NAU3468	13	53	0.860	2.095	7.153	10	10	9	6	8	8
NAU3499	8,19,24	53	0.862	2.187	7.251	11	10	7	5	6	5
NAU3942	22	55	0.840	1.922	6.256	8	7	6	2	8	7
NAU4042	19	53	0.864	2.137	7.333	10	10	9	8	9	9
NAU4047	12	55	0.540	0.898	2.174	3	2	3	2	2	1
NAU4057	5	53	0.890	2.343	9.109	13	13	11	8	8	8
NAU4855	21	55	0.907	2.518	10.762	15	15	7	3	12	12
NAU5013	20	60	0.813	1.810	5.359	7	6	7	5	5	4
NAU5046	22	57	0.877	2.235	8.100	11	11	7	6	6	6
NAU5064	11	57	0.832	1.902	5.954	8	8	7	4	6	6
NAU5099	22	55	0.880	2.159	8.333	9	9	5	3	5	5
NAU5107	1	55	0.857	2.018	7.010	8	8	7	5	6	6
NAU5120	16	53	0.873	2.152	7.881	10	10	8	3	10	10
NAU5128	8,	53	0.847	2.052	6.553	10	9	8	6	6	5
NAU5129	8	55	0.883	2.237	8.533	11	11	6	5	5	5
NAU5163	1	55	0.804	1.742	5.115	7	7	6	5	7	7
NAU5368	8	55	0.855	2.069	6.881	10	10	6	5	6	6

NAU5373	6,25	55	0.824	1.817	5.686	7	7	5	4	5	5
NAU5379	6,24	55	0.741	1.458	3.861	5	5	4	4	3	3
NAU5416		53	0.768	1.639	4.310	6	6	4	3	3	3
NAU5426		53	0.847	2.022	6.519	9	9	7	6	3	3
NAU5433	6	55	0.889	2.364	9.000	13	13	9	7	5	5
NAU5434	6	57	0.883	2.311	8.528	12	11	9	7	5	4
NAU5463		53	0.780	1.789	4.545	8	7	8	7	1	0
NAU5494	9	55	0.831	1.923	5.918	8	8	5	3	7	7
NAU749		55	0.744	1.534	3.913	6	5	5	4	5	4
NAU868		55	0.857	2.079	7.010	9	9	8	6	4	4
NAU874	LGA06	55	0.824	1.828	5.684	7	7	5	3	5	5
NAU876		55	0.798	1.604	4.944	5	5	5	0	5	5
NAU879	10,LGA05	55	0.856	2.077	6.964	10	10	7	6	9	9
NAU895	2	53	0.719	1.428	3.564	5	4	2	0	5	4
NAU899		53	0.770	1.548	4.349	6	6	6	2	4	4
NAU905	6,25	53	0.865	2.161	7.420	11	11	5	3	10	10
NAU934	5	51	0.895	2.357	9.483	12	12	6	1	12	12
NAU965		53	0.900	2.378	9.975	12	12	6	4	11	11
NAU984	21	53	0.786	1.766	4.667	8	8	2	0	8	8
NAU990		53	0.730	1.496	3.705	6	5	3	2	5	3
TMB0283	1	55	0.806	1.760	5.160	7	7	3	1	6	6
TMB0301	15	55	0.752	1.564	4.038	6	6	2	0	5	5
TMB0312		55	0.676	1.307	3.085	5	5	4	3	3	3
TMB0313	25	55	0.758	1.598	4.128	6	5	5	4	3	2
TMB0325	10	60	0.802	1.730	5.055	7	5	4	0	6	4
TMB0327	12	55	0.836	1.932	6.095	8	8	6	5	7	7
TMB0375	15	57	0.822	1.759	5.622	6	6	5	0	4	4
TMB0409		57	0.842	1.983	6.323	9	9	5	5	9	9
TMB0436	6,25	55	0.824	1.819	5.686	7	7	4	4	7	7
TMB0508	25	60	0.761	1.566	4.181	6	6	3	0	5	5

TMB10		55	0.877	2.177	8.114	10	10	6	0	9	9
TMB1120	5	57	0.869	2.169	7.649	11	11	7	4	9	9
TMB1152		57	0.884	2.255	8.638	11	11	9	9	11	11
TMB1181		57	0.823	1.883	5.642	8	8	5	5	8	8
TMB1224		55	0.880	2.237	8.363	11	11	4	0	10	10
TMB1232	11,21	56	0.868	2.133	7.603	10	10	7	4	6	6
TMB1268	17	57	0.886	2.330	8.791	12	12	7	6	7	7
TMB1288	10	55	0.819	1.831	5.519	8	8	6	2	7	7
TMB1296	5,19	55	0.884	2.266	8.647	11	11	7	3	10	10
TMB1409		56	0.874	2.229	7.941	11	11	5	4	9	9
TMB1638	18	53	0.753	1.544	4.042	6	6	4	1	4	4
TMB1667	11	60	0.811	1.877	5.289	9	7	5	2	8	6
TMB1706	16	53	0.873	2.158	7.855	10	10	5	0	8	8
TMB1746		55	0.892	2.336	9.251	12	12	5	3	11	11
TMB176		57	0.834	1.995	6.012	10	9	9	8	5	4
TMB1791		57	0.827	1.854	5.789	8	8	6	4	7	7
TMB1939		57	0.913	2.570	11.512	15	15	6	4	14	14
TMB1989		56	0.813	1.793	5.342	7	7	5	4	6	6
TMB2038		57	0.876	2.200	8.092	11	11	8	6	7	7
TMB2762	18	55	0.810	1.817	5.258	7	6	7	6	3	2
TMB2789	12	60	0.793	1.678	4.837	6	5	4	0	6	5
TMB2945		57	0.738	1.418	3.814	5	5	4	1	4	4
TMB515		60	0.811	1.813	5.298	8	8	6	4	6	6
TMB537		57	0.791	1.671	4.781	6	5	5	3	4	3
TMB682		55	0.663	1.232	2.969	4	3	3	1	2	1
TMB858	9	57	0.828	1.935	5.817	9	9	6	4	8	7
Total			262.600	615.582	2011.469	2776	2755	1849	1153	2068	1967
Average			0.823	1.930	6.306	8.702	8.636	5.796	3.614	6.483	6.166