

A genome-wide genetic map of NB-LRR disease resistance loci in potato.

Theoretical and Applied Genetics

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Supplemental Table 3 A list of RGH loci per linkage group as identified in this study. Each row represents a significant RGH domain BLASTp hit, with in the columns from left to right: The name of the RGH locus, the BAC fragment on which the BLASTp hit was found, the Genbank accession number of the BAC sequence, the linkage group (LG) and the bin range (bin) on which the BAC is mapped in the UHD map, the translational frame where the BLASTp hit was found and the amino acid position of the BLASTp hit (start – stop) on the BAC fragment. The significance of the BLASTp hit (Expected) and the method that was used to map the BAC (anchor). The last column indicates the number of (partial) RGHs that were detected. In the first columns, the *R* genes syntenic to the RGH loci are indicated in italics.

Cluster	BAC fragment	genbank	LG	BIN	BLAST	frame	start	stop	Expected	Anchor	(partial) RGH
Ia-TNL	RH078E17-17-9310	AC238121	1	8-12	Bs4-TIR	1	712	760	E=2.44153e-10	potato physical map	1
	RH078E17-6-3224		1	8-12	Bs4-TIR	1	800	963	E=2.95083e-76		1
	RH097L03-10-5021	AC238183	1	9-15	Bs4-TIR	-1	1414	1462	E=1.00852e-09	RGH-SSR27	1
	RH097L03-14-10105		1	9-15	Bs4-TIR	-1	2310	2419	E=3.9484e-50		1
	RH097L03-14-10105		1	9-15	Bs4-TIR	-3	2457	2509	E=2.9768e-17		1
	RH097L03-14-10105		1	9-15	Bs4-NBS	-3	2573	2933	E=e-130		1
	RH097L03-14-10105		1	9-15	N-Nt-NBS	-3	2573	2920	E=2.61525e-138		1
	RH150D18-1-42511	AC232102	1	9-15	Bs4-TIR	-2	12489	12598	E=1.72905e-49	BACend tool	1
	RH150D18-1-42511		1	9-15	WRR4-exon1	-2	12491	12601	E=7.15232e-23		1
	RH150D18-1-42511		1	9-15	Bs4-TIR	-1	12648	12700	E=4.59387e-17		1
	RH150D18-1-42511		1	9-15	N-Nt-NBS	-1	12764	13111	E=2.28842e-138		1
	RH037B15-4-2080	AC237998	1		N-Nt-NBS	2	1	245	E=6.97262e-94	marker blast (CT62)	1
	RH037B15-4-2080		1		N-Nt-LRR	3	416	534	E=2.89972e-15		1
RH037B15-2-2862		1		Bs4-CNL	2	421	506	E=5.43444e-09		1	
Ib-CNL	RH140O20-2-47006	AC238257	1	9-15	Mi-1-CC	3	190	467	E=5.79453e-68	RGH-SSR35	1
	RH140O20-2-47006		1	9-15	CaMi-CC	1	493	598	E=2.22665e-27		1
	RH140O20-2-47006		1	9-15	Rpi-blb2-NBS	1	589	946	E=2.6987e-116		1
	RH140O20-2-47006		1	9-15	R1-LRR	1	811	916	E=5.62253e-07		1
	RH140O20-2-47006		1	9-15	CaMi-LRR	3	941	1265	E=3.16611e-68		1
Ic-CNL	RH076K12-17-3666	AC239995	1	13-14	Dm3-NBS	-3	2	181	E=5.51006e-13	RGH-CAPS7	1
	RH076K12-17-3666		1	13-14	Dm3-NBS	-2	71	119	E=0.00141828		1
	RH076K12-17-3666		1	13-14	Dm3-LRR	-3	232	556	E=0.00176886		1
	RH076K12-17-3666		1	13-14	Dm3-LRR	-2	578	736	E=2.86655e-07		1
Id-TNL	RH065I22-5-46247	AC238084	1	81	Gro1-4-TIR	-3	2320	2474	E=1.30582e-25	RGH-CAPS6	1
	RH065I22-5-46247		1	81	N-Nt-NBS	-2	2567	2919	E=3.40836e-59		1
	RH065I22-5-46247		1	81	N-Nt-LRR	-2	3123	3352	E=2.85008e-17		1
IVa-CNL	RH044G10-2-20622	AC238021	4	1-14	Dm3-Nterminus	-3	2074	2236	E=6e-04	RGH-SSR9	1
	RH044G10-2-20622		4	1-14	Dm3-NBS	-3	2237	2551	E=3.27874e-48		1
	RH044G10-2-20622		4	1-14	Dm3-LRR	-2	3169	3294	E=4.77011e-06		1
	RH044G10-2-20622		4	1-14	Dm3-LRR	-3	3568	3714	E=9.20803e-11		1
	RH044G10-2-20622		4	1-14	Dm3-NBS	-1	4477	4790	E=1.02717e-51		1
	RH044G10-2-20622		4	1-14	Rps2-LRR	-1	4796	4992	E=1.09329e-05		1
	RH044G10-2-20622		4	1-14	LR1-LRR	-1	5226	5375	E=0.00373549		1
	RH044G10-2-20622		4	1-14	Dm3-LRR	-1	5488	5635	E=9.13682e-09		1
	RH079O07-5-67772	AC238124	4	1-3	Dm3-Nterminus	-3	16823	16932	E=0.00254987	RGH-SSR20	1
	RH079O07-5-67772		4	1-3	Dm3-NBS	-3	16986	17300	E=1.48452e-47		1
	RH079O07-5-67772		4	1-3	Mla7-LRR	-3	17392	17486	E=0.0148997		1
	RH079O07-5-67772		4	1-3	Rps2-LRR	-1	18120	18287	E=5.07409e-06		1
	RH079O07-5-67772		4	1-3	Dm3-LRR	-3	18369	18525	E=8.05962e-10		1
RH079O07-5-67772		4	1-3	Dm3-NBS	-2	19167	19480	E=1.08864e-52		1	
RH079O07-5-67772		4	1-3	Dm3-LRR	-2	19519	19818	E=2.40443e-09		1	
IVb-CNL	RH078F10-1-16883	AC238122	4	11-14	Hero-CC	-2	785	1315	E=2.36954e-180	NBS profiling 5A6A12/ 5A6A22/ 5A6H28	1
	RH078F10-1-16883		4	11-14	Hero-NBS	-2	1316	1679	E=1.13304e-155		1
	RH078F10-1-16883		4	11-14	Hero-LRR	-2	1680	2032	E=8.33796e-111		1
	RH078F10-1-16883		4	11-14	Hero-CC	-1	2059	2500	E=2.36146e-163		1
	RH078F10-1-16883		4	11-14	Hero-NBS	-1	2501	2864	E=6.92748e-155		1
	RH078F10-1-16883		4	11-14	Hero-LRR	-1	2865	3217	E=3.11599e-110		1
	RH078F10-2-7509		4	11-14	Hero-LRR	3	715	826	E=1.36756e-15		1
	RH078F10-2-7509		4	11-14	Hero-LRR	1	869	1004	E=2.82929e-40		1
	RH078F10-3-12317		4	11-14	Hero-CC	2	2316	2617	E=2.25688e-89		1
	RH078F10-3-12317		4	11-14	Hero-CC	3	2564	2892	E=2e-80		1
	RH078F10-3-12317		4	11-14	Hero-NBS	3	2893	3242	E=1.15712e-140		1
	RH078F10-3-12317		4	11-14	Hero-LRR	3	3243	3604	E=4.27481e-113		1
	RH078F10-5-7077		4	11-14	Hero-CC	-1	375	906	E=0.0		1
	RH078F10-5-7077		4	11-14	Hero-NBS	-1	907	1267	E=2.3429e-153		1
	RH078F10-5-7077		4	11-14	Hero-LRR	-1	1269	1625	E=2.03842e-106		1
	RH078F10-6-36894		4	11-14	Hero-CC	-3	4606	4925	E=1.51813e-104		1
	RH078F10-6-36894		4	11-14	Hero-CC	-1	5243	5386	E=6.1643e-48		1
	RH078F10-6-36894		4	11-14	Hero-CC	-2	5395	5441	E=4.93265e-11		1
	RH078F10-6-36894		4	11-14	Hero-NBS	-2	5442	5784	E=2.33017e-143		1
	RH078F10-6-36894		4	11-14	R1-LRR	-2	5658	5768	E=2.33854e-11		1
	RH078F10-6-36894		4	11-14	Hero-LRR	-1	5743	5878	E=4.1663e-29		1
	RH078F10-6-36894		4	11-14	Hero-LRR	-3	5852	6055	E=1.07506e-68		1
	RH078F10-6-36894		4	11-14	Sw-5-LRR	-3	6770	6909	E=3.93271e-11		1
	RH078F10-7-17949		4	11-14	Hero-CC	-2	453	989	E=0.0		1
	RH078F10-7-17949		4	11-14	Hero-NBS	-2	990	1350	E=4.31053e-151		1
	RH078F10-7-17949		4	11-14	Hero-LRR	-2	1351	1700	E=4.83633e-119		1
	RH078F10-8-4130		4	11-14	Nrc1-NBS	1	191	533	E=3.25181e-91		1
	RH078F10-8-4130		4	11-14	Nrc1-LRR	1	540	904	E=8.83518e-63		1
	RH078F10-9-28707		4	11-14	Hero-CC	-2	4125	4678	E=0.0		1
	RH078F10-9-28707		4	11-14	Hero-NBS	-2	4679	5040	E=9.6721e-155		1
RH078F10-9-28707		4	11-14	Hero-LRR	-2	5041	5386	E=2.90298e-124		1	
RH078F10-9-28707		4	11-14	Nrc1-CC	3	8133	8254	E=6.99509e-11		1	
IVc-CNL	RH143M21-1-70917	AC238261	4	33-36	Dm3-NBS	3	18064	18378	E=3.27589e-51	potato physical map	1
	RH143M21-1-70917		4	33-36	Dm3-LRR	3	18426	18699	E=2.74544e-12		1
	RH143M21-1-70917		4	33-36	Dm3-LRR	1	18720	18855	E=0.000450209		1
	RH143M21-1-70917		4	33-36	Dm3-LRR	2	19575	19721	E=7.86266e-09		1
	RH143M21-1-70917		4	33-36	R3a-LRR	2	19876	20014	E=0.0367856		1
	RH162D01-4-18581	AC238307	4	33-36	Rpg1-b-NBS	1	3716	3815	E=0.000243566	potato physical map	1
	RH191J01-5-41938	AC237896	4	33-36	Rpg1-b-NBS	1	6972	7071	E=0.000214912	potato physical map	1
	RH188B03-6-12377	AC237892	4	36	Dm3-NBS	-2	1	146	E=2.38732e-20	potato physical map	1
	RH188B03-6-12377		4	36	Dm3-LRR	-2	194	467	E=5.26328e-12		1
	RH188B03-6-12377		4	36	Dm3-LRR	-3	543	678	E=0.000505994		1
	RH188B03-6-12377		4	36	Dm3-LRR	-1	1247	1393	E=8.47583e-09		1
	RH188B03-6-12377		4	36	R3a-LRR	-1	1548	1686	E=0.0355782		1
	IVd-TNL	RH145H03-2-22300	AC238268	4	37-44	Bs4-TIR	3	6232	6392	E=5.75723e-73	RGH-SSR39

	RH145H03-2-22300		4	37-44	Bs4-NBS	2	6477	6819	E=1.47664e-97		
	RH145H03-2-22300		4	37-44	Bs4-NBS	3	6619	6728	E=8.89802e-32		
	RH145H03-3-28457		4	37-44	Bs2-LRR	2	7138	7233	E=3.65312e-12		1
IVe-CNL	RH082D23-7-30590	AC238132	4	45	Dm3-NBS	2	5835	6149	E=9.85486e-51	RGH-SSR22	1
	RH082D23-7-30590		4	45	Dm3-LRR	2	6197	6470	E=2.32416e-11		
	RH082D23-7-30590		4	45	Dm3-LRR	3	6549	6684	E=0.000465489		
	RH082D23-7-30590		4	45	Dm3-LRR	1	7218	7364	E=1.05292e-08		
	RH082D23-7-30590		4	45	R3a-LRR	1	7520	7658	E=0.0517902		
IVf-TNL	RH176O03-1-55783	AC237880	4	103	Rpp5-LRR	-2	144	350	E=0.00369475	potato physical map	1
	RH176O03-1-55783		4	103	N-NL-LRR	-2	534	724	E=0.00687231		
Va-CNL	RH034J11-1-13771	AC239974	5	20	R1-CC	-2	1252	1797	E=0.0	potato physical map	1
	RH034J11-1-13771		5	20	R1-NBS	-2	1798	2015	E=2.85138e-78		
	RH034J11-1-13771		5	20	Rx1-NBS	-2	2716	2877	E=4.95413e-33		
	RH034J11-1-13771		5	20	R1-LRR	-2	2782	2888	E=1.2575e-50		
	RH034J11-1-13771		5	20	R1-LRR	-1	2823	3199	E=6.29162e-166		
	RH034J11-1-13771		5	20	R1-LRR	-3	4039	4319	E=8.18012e-124		
	RH034J11-10-9043		5	20	R1-CC	-3	2386	2681	E=1.92576e-147		1
	RH034J11-10-9043		5	20	R1-NBS	-3	2682	2861	E=4.02934e-94		
	RH034J11-11-4209		5	20	R1-LRR	-1	9	132	E=1.26878e-48		1
	RH034J11-4-7075		5	20	R1-CC	-1	1568	2115	E=0.0		1
	RH034J11-4-7075		5	20	R1-NBS	-1	2116	2250	E=2.56645e-67		
	RH034J11-9-15747		5	20	R1-CC	-1	4214	4482	E=1.20567e-93		1
	RH083B01-10-7700	AC238137	5	20	R1-CC	3	269	822	E=0.0	potato physical map	1
	RH083B01-10-7700		5	20	R1-NBS	3	823	1035	E=5.83995e-109		
	RH083B01-10-7700		5	20	R1-LRR	3	1036	1142	E=8.42753e-50		
	RH083B01-10-7700		5	20	R1-LRR	2	1078	1460	E=1.51225e-162		
	RH083B01-2-3308		5	20	R1-LRR	3	10	386	E=5.793e-163		1
	RH083B01-4-18259		5	20	R1-CC	2	1689	2098	E=1.50052e-173		1
	RH083B01-4-18259		5	20	R1-CC	1	2093	2229	E=1.63804e-72		
	RH083B01-4-18259		5	20	R1-NBS	3	2186	2336	E=3.66983e-71		
	RH083B01-4-18259		5	20	Nrc1-NBS	1	2371	2541	E=1.08202e-30		
	RH083B01-4-18259		5	20	R1-LRR	1	2440	2546	E=2.9682e-52		
	RH083B01-4-18259		5	20	R1-LRR	3	2507	2620	E=9.84161e-33		
	RH083B01-4-18259		5	20	R1-LRR	2	2881	3190	E=1.79426e-119		
	RH083B01-6-19429		5	20	R1-CC	2	2157	2703	E=0.0		1
	RH083B01-6-19429		5	20	R1-NBS	2	2704	2916	E=1.24568e-114		
	RH083B01-6-19429		5	20	R1-LRR	2	2917	3429	E=0.0		
	RH083B01-6-19429		5	20	R1-CC	3	4550	5095	E=0.0		1
	RH083B01-6-19429		5	20	R1-NBS	3	5096	5313	E=2.18322e-78		
	RH083B01-6-19429		5	20	Pib-NBS	3	6014	6106	E=3.38184e-10		
	RH083B01-7-24170		5	20	R1-CC	1	188	456	E=7.55623e-94		1
	RH083B01-7-24170		5	20	R1-CC	3	3376	3671	E=2.39161e-148		
	RH083B01-7-24170		5	20	R1-NBS	3	3672	3884	E=2.07228e-114		
	RH083B01-7-24170		5	20	R1-LRR	3	3885	3953	E=2.01814e-30		
	RH083B01-7-24170		5	20	R1-LRR	1	3914	4346	E=0.0		
	RH083B01-7-24170		5	20	R1-LRR	2	6948	7158	E=1.22563e-81		
	RH083B01-8-20441		5	20	R1-CC	1	3983	4523	E=0.0		1
	RH083B01-8-20441		5	20	R1-NBS	1	4524	4736	E=2.61612e-116		
	RH083B01-8-20441		5	20	R1-LRR	1	4737	4843	E=5.23633e-51		
	RH083B01-8-20441		5	20	R1-LRR	3	4818	5202	E=7.02466e-160		
	RH083B01-9-17012		5	20	R1-CC	1	2309	2887	E=0.0		1
	RH083B01-9-17012		5	20	R1-NBS	3	2855	3031	E=3.08247e-97		
	RH083B01-9-17012		5	20	R1-LRR	3	3032	3138	E=1.683e-52		
	RH083B01-9-17012		5	20	R1-LRR	2	3172	3557	E=5.11002e-164		
	RH158C09-10-19492	AC238295	5	20	R1-CC	-2	755	792	E=4.0784e-05	potato physical map	1
	RH158C09-10-19492		5	20	R1-CC	-1	787	1307	E=0.0		
	RH158C09-10-19492		5	20	R1-NBS	-1	1308	1520	E=2.14385e-112		
	RH158C09-10-19492		5	20	R1-LRR	-3	1572	1957	E=1.04878e-158		
	RH158C09-10-19492		5	20	Gpa2-NBS	-2	2111	2273	E=4.21442e-32		1
	RH158C09-10-19492		5	20	R1-LRR	-2	2172	2278	E=4.46737e-52		
	RH158C09-10-19492		5	20	R1-LRR	-1	2363	2748	E=7.82947e-160		
	RH158C09-14-17561		5	20	R1-CC	-3	537	610	E=8.35356e-07	potato physical map	1
	RH158C09-14-17561		5	20	R1-NBS	-3	1751	1848	E=1.19736e-49		
	RH158C09-14-17561		5	20	R1-LRR	-3	1849	2359	E=0.0		
	RH158C09-15-2555		5	20	R1-CC	2	175	356	E=7.47487e-45		
	RH158C09-16-14597		5	20	R1-CC	3	210	774	E=0.0		1
	RH158C09-16-14597		5	20	R1-NBS	3	775	987	E=1.52185e-114		
	RH158C09-16-14597		5	20	R1-LRR	3	988	1094	E=2.31091e-52		
	RH158C09-16-14597		5	20	R1-LRR	2	1044	1424	E=8.00701e-169		
	RH158C09-17-6896		5	20	R1-CC	-1	1	153	E=9.05828e-73		1
	RH158C09-17-6896		5	20	R1-NBS	-1	154	366	E=9.38269e-114		
	RH158C09-17-6896		5	20	R1-LRR	-1	367	473	E=6.50491e-51		
	RH158C09-17-6896		5	20	R1-LRR	-3	449	829	E=5.64652e-165		
	RH158C09-2-1804		5	20	R1-CC	1	189	512	E=1.11838e-122		1
	RH158C09-2-1804		5	20	R1-CC	3	486	560	E=2.04269e-30		
	RH158C09-4-13885		5	20	R1-CC	3	158	727	E=0.0		1
	RH158C09-4-13885		5	20	R1-NBS	3	728	941	E=6.23945e-111		
	RH158C09-4-13885		5	20	R1-LRR	3	942	1048	E=3.14855e-50		
	RH158C09-4-13885		5	20	R1-LRR	2	992	1377	E=8.49844e-165		
	RH158C09-9-8263		5	20	R1-CC	-2	1	509	E=0.0		1
	RH158C09-9-8263		5	20	R1-NBS	-2	510	600	E=1.96291e-42		
	RH158C09-9-8263		5	20	R1-NBS	-1	555	675	E=1.70569e-66		
	RH158C09-9-8263		5	20	R1-LRR	-1	676	782	E=3.12058e-52		
	RH158C09-9-8263		5	20	R1-LRR	-3	786	1165	E=4.11585e-162		
	RH087A20-3-6770	AC238295	5	21	R1-CC	-3	262	723	E=0.0	potato physical map	1
	RH087A20-3-6770		5	21	R1-NBS	-3	724	936	E=1.36502e-115		
	RH087A20-3-6770		5	21	R1-LRR	-3	937	1043	E=2.91823e-53		
	RH087A20-3-6770		5	21	R1-LRR	-2	993	1378	E=3.81146e-168		
	RH087A20-4-6576		5	21	R1-CC	-1	159	552	E=3.05409e-168		1
	RH087A20-4-6576		5	21	Nrc1-NBS	-1	551	657	E=1.63373e-19		
	RH087A20-4-6576		5	21	R1-LRR	-1	552	658	E=6.39726e-51		
	RH087A20-4-6576		5	21	R1-LRR	-3	640	1025	E=1.11219e-157		
	RH087A20-5-13651		5	21	R1-CC	-1	238	811	E=0.0		1
	RH087A20-5-13651		5	21	R1-NBS	-1	812	1025	E=4.50504e-112		
	RH087A20-5-13651		5	21	R1-LRR	-1	1026	1132	E=1.65563e-51		
	RH087A20-5-13651		5	21	R1-LRR	-3	1084	1472	E=2.75916e-160		
	RH087A20-5-13651		5	21	Rx1-LRR	-3	2438	2575	E=5.76661e-14		
	RH087A20-6-5116		5	21	R1-CC	1	1025	1255	E=7.16068e-78		1

	RH087A20-7-7093		5	21	R1-LRR	-2	1116	1403	E=6.84195e-107		1
	RH087A20-8-11239		5	21	R1-LRR	-3	2877	3016	E=8.08083e-51		1
Vb-CNL	RH149G10-2-12381	AC237874	5	37	Prf-CC	1	343	667	E=1.11047e-109	BACend tool/ potato physical map	1
	RH149G10-2-12381		5	37	Prf-NBS	1	668	946	E=3.16034e-107		
	RH149G10-2-12381		5	37	Prf-LRR	2	940	1321	E=1.85844e-165		
Vc-CNL	RH005L02-6-17698	AC237919	5	41	Rpi-blb2-CC	1	1	518	E=5.70705e-119	RGH-SSR3	1
	RH005L02-6-17698		5	41	Rpi-blb2-NBS	1	519	585	E=1.01924e-21		
	RH005L02-6-17698		5	41	Rpi-blb2-NBS	3	529	816	E=3.826e-92		
	RH005L02-6-17698		5	41	CaMi-LRR	3	841	1121	E=1.71153e-60		
	RH149N09-1-114425	AC238277	5	45-46	Rpi-blb2-CC	-1	9368	9444	E=2.62281e-09	potato physical map	1
	RH149N09-1-114425		5	45-46	CaMi-CC	-2	10284	10738	E=7.04097e-114		
	RH149N09-1-114425		5	45-46	Rpi-blb2-NBS	-2	10729	11088	E=6.26093e-120		
	RH149N09-1-114425		5	45-46	CaMi-LRR	-2	11113	11431	E=1.82173e-75		
	RH149N09-1-114425		5	45-46	Rpi-blb2-LRR	-1	11452	11546	E=0.000252079		
Vd-TNL	RH096M02-10-32550	AC238178	5	42-47	N-Nt-LRR	-2	3125	3352	E=9.7893e-49	potato physical map	1
	RH096M02-10-32550		5	42-47	Y-1-LRR	-3	3464	3598	E=9.5955e-26		
	RH096M02-10-32550		5	42-47	Bs4-CNL	-1	3510	3627	E=3.40293e-12		
	RH096M02-6-14360		5	42-47	Bs4-TIR	-1	1558	1644	E=3.09822e-23		1
	RH096M02-6-14360		5	42-47	N-Nt-NBS	-3	1668	1785	E=1.08708e-29		
	RH096M02-6-14360		5	42-47	N-Nt-NBS	-2	1756	1912	E=1.18709e-42		
	RH150G07-4-9219	AC238279	5	42-47	N-Nt-TIR	3	1657	1727	E=1.78547e-20	RGH-SSR40	1
	RH150G07-4-9219		5	42-47	N-Nt-NBS	2	1719	1837	E=1.34887e-33		
	RH150G07-4-9219		5	42-47	N-Nt-NBS	1	1829	1986	E=1.13957e-39		
	RH050L05-3-51824	AC238035	5	42-47	N-Nt-TIR	-1	11904	11974	E=4.0469e-18	RGH-SSR11	1
	RH050L05-3-51824		5	42-47	Y-1-NBS	-2	12040	12194	E=4.25945e-38		
	RH050L05-3-51824		5	42-47	N-Nt-LRR	-3	13446	13509	E=2.69541e-08		
	RH050L05-3-51824		5	42-47	N-Nt-LRR	-2	13715	13952	E=1.35542e-48		
	RH050L05-3-51824		5	42-47	Bs4-LRR	-3	13951	14028	E=3.8898e-18		
	RH050L05-3-51824		5	42-47	Bs4-CNL	-1	14080	14111	E=6.16256e-07		
	RH059F14-1-103260	AC238071	5	42-47	Bs4-TIR	2	12457	12509	E=4.67117e-17	RGH-SSR16	1
	RH059F14-1-103260		5	42-47	Bs4-NBS	1	12778	12834	E=2.78534e-09		
	RH059F14-1-103260		5	42-47	Y-1-NBS	3	14903	15033	E=1.48437e-19		
	RH059F14-1-103260		5	42-47	Bs4-TIR	-1	15048	15206	E=1.60852e-68		1
	RH059F14-1-103260		5	42-47	Rpp5-TIR	-3	15286	15338	E=0.0181302		
	RH059F14-1-103260		5	42-47	N-Nt-NBS	-3	15290	15633	E=1.02165e-128		
	RH059F14-1-103260		5	42-47	Y-1-NBS	-2	15577	15672	E=5.52195e-06		
	RH059F14-1-103260		5	42-47	Y-1-NBS	-1	15737	15786	E=1.70229e-07		
	RH059F14-1-103260		5	42-47	N-Nt-LRR	-1	15744	15835	E=1.78673e-16		
	RH059F14-1-103260		5	42-47	Bs4-CNL	-2	16359	16521	E=2.85167e-46		
	RH105E10-7-17147	AC238209	5	42-47	Bs4-TIR	-2	67	226	E=1.1425e-68	RGH-SSR29	1
	RH105E10-7-17147		5	42-47	Rpp5-TIR	-1	269	321	E=0.0100259		
	RH105E10-7-17147		5	42-47	N-Nt-NBS	-1	273	617	E=4.73885e-131		
	RH105E10-7-17147		5	42-47	Bs4-TIR	-2	900	957	E=4.4829e-15		1
	RH105E10-7-17147		5	42-47	Y-1-LRR	-3	1094	1357	E=3.15382e-65		
	RH105E10-7-17147		5	42-47	Y-1-NBS	3	3060	3190	E=3.50472e-20		1
	RH130M21-3-20094	AC237863	5	42-47	Bs4-TIR	-3	812	971	E=6.42428e-69	BACend tool	1
	RH130M21-3-20094		5	42-47	N-Nt-NBS	-2	1027	1371	E=3.75156e-131		
	RH130M21-3-20094		5	42-47	Bs4-TIR	2	1053	1110	E=5.75796e-15		1
	RH130M21-3-20094		5	42-47	N-Nt-LRR	-2	1782	1937	E=1.92372e-49		
	RH130M21-3-20094		5	42-47	Y-1-LRR	-1	1851	2114	E=3.20689e-65		
	RH130M21-3-20094		5	42-47	Bs4-CNL	-1	2067	2228	E=2.20238e-45		
	RH130M21-3-20094		5	42-47	Y-1-NBS	3	3216	3346	E=3.50472e-20		1
	RH162G20-6-4916	AC238310	5	42-47	N-Nt-TIR	2	112	182	E=9.54949e-21	RGH-SSR44	1
	RH162G20-6-4916		5	42-47	N-Nt-NBS	1	191	452	E=6.18673e-46		
	RH162G20-4-6756		5	42-47	CaMi-LRR	-3	6	110	E=1.54507e-10		1
	RH162G20-4-6756		5	42-47	CaMi-LRR	-2	87	152	E=0.000377949		
	RH188F23-3-5294	AC237893	5	42-47	Bs4-TIR	2	32	118	E=6.78788e-23	BACend tool	1
	RH188F23-3-5294		5	42-47	N-Nt-NBS	1	127	244	E=2.88553e-29		
	RH188F23-3-5294		5	42-47	N-Nt-NBS	3	227	383	E=1.18709e-42		
	RH188F23-4-10707		5	42-47	N-Nt-LRR	2	625	688	E=2.76373e-08		1
	RH188F23-4-10707		5	42-47	N-Nt-LRR	1	868	1105	E=1.58826e-48		
	RH188F23-4-10707		5	42-47	Bs4-LRR	2	1130	1207	E=6.97561e-18		
	RH188F23-4-10707		5	42-47	Bs4-CNL	3	1206	1237	E=7.22122e-07		
	RH188F23-7-43852		5	42-47	N-Nt-LRR	-1	5801	6028	E=2.57688e-48		1
	RH188F23-7-43852		5	42-47	Y-1-LRR	-2	6014	6148	E=1.85496e-25		
	RH188F23-7-43852		5	42-47	N-Nt-CNL	-3	6209	6325	E=7.51326e-17		
	RH149N09-1-114425	AC238277	5	45-46	Bs4-TIR	3	7226	7382	E=3.29177e-73	potato physical map	1
	RH149N09-1-114425		5	45-46	Bs4-NBS	2	7495	7863	E=5.7527e-155		
	RH149N09-1-114425		5	45-46	N-Nt-LRR	1	7909	8019	E=5.83766e-19		
	RH149N09-1-114425		5	45-46	Y-1-LRR	2	8409	8762	E=4.72858e-107		
	RH149N09-1-114425		5	45-46	N-Nt-CNL	2	8709	8856	E=1.24727e-52		
	RH186A15-1-25421	AC240056	5	46	N-Nt-NBS	-2	13	72	E=3.9759e-17	potato physical map	1
	RH186A15-1-25421		5	46	P2-LRR	-2	339	446	E=0.000467581		
	RH186A15-1-25421		5	46	Bs4-TIR	-2	801	962	E=3.76081e-74		1
	RH186A15-1-25421		5	46	Bs4-NBS	-1	1048	1403	E=4.82809e-155		
	RH186A15-1-25421		5	46	P2-NBS	-2	1544	1595	E=0.0303327		
	RH186A15-1-25421		5	46	N-Nt-LRR	-2	1666	2065	E=2.52235e-93		
	RH186A15-1-25421		5	46	N-Nt-CNL	-3	2016	2158	E=4.27468e-34		
	RH196D19-4-72386	AC238396	5	46	Bs4-TIR	-1	12097	12256	E=9.50351e-71	BACend tool	1
	RH196D19-4-72386		5	46	Bs4-NBS	-1	12313	12680	E=3.03378e-146		
	RH196D19-4-72386		5	46	N-Nt-LRR	-3	12713	12814	E=4.25642e-15		
	RH196D19-4-72386		5	46	Y-1-LRR	-2	14607	15015	E=2.18458e-94		
	RH196D19-4-72386		5	46	N-Nt-CNL	-2	14957	15108	E=8.11042e-41		
Ve-CNL	RH189F04-3-28234	AC238378	5	42-47	R3a-CC	2	5139	5283	E=9.54655e-47	NBS profiling 2H34	1
	RH189F04-3-28234		5	42-47	R3a-NBS	2	5284	5357	E=2.49238e-28		
	RH189F04-3-28234		5	42-47	R3a-NBS	3	5309	5369	E=4.74669e-22		
	RH189F04-3-28234		5	42-47	R3a-LRR	3	5370	5480	E=2.71528e-42		
	RH189F04-3-28234		5	42-47	I2-LRR	1	5582	5821	E=1.07549e-71		
	RH189F04-3-28234		5	42-47	Rpp1-b-LRR	1	6250	6489	E=1.47959e-15		
	RH040H22-1-23554	AC238011	5	46	I2-CC	-2	6693	6857	E=1.6126e-52	potato physical map	1
	RH040H22-1-23554		5	46	R3a-NBS	-2	6859	6952	E=1.22419e-34		
	RH040H22-1-23554		5	46	R3a-NBS	-3	6971	7180	E=7.32853e-78		
	RH040H22-1-23554		5	46	R3a-LRR	-3	7181	7456	E=1.97152e-110		
	RH040H22-2-1074		5	46	R3a-CC	-3	1	113	E=1.58594e-22		1
	RH040H22-2-1074		5	46	R3a-NBS	-3	75	357	E=1.43588e-117		
	RH040H22-5-31964		5	46	R3a-LRR	-3	1	641	E=0.0		1
	RH040H22-5-31964		5	46	R3a-LRR	-1	4797	5200	E=1.9471e-153		
	RH040H22-5-31964		5	46	Xa1-LRR	-2	5239	5403	E=9.69176e-05		

	RH040H22-5-31964		5	46	R3a-CC	-2	7269	7434	E=7.61872e-48		1
	RH040H22-5-31964		5	46	R3a-NBS	-2	7435	7815	E=7.91459e-158		
	RH040H22-5-31964		5	46	I2-LRR	-2	7816	8457	E=0.0		
	RH002J19-1-19079	AC239958	5		I2-CC	1	2520	2684	E=9.10923e-66	RGH-CAPS2 (SH)	1
	RH002J19-1-19079		5		I2-NBS	1	2687	3063	E=1.73241e-144		
	RH002J19-1-19079		5		I2-LRR	1	3064	3831	E=0.0		
	RH002J19-2-23027		5		I2-CC	1	1906	1962	E=1.11173e-11		1
	RH002J19-2-23027		5		I2-CC	2	2640	2806	E=2.63141e-61		
	RH002J19-2-23027		5		R3a-NBS	2	2807	3027	E=1.75129e-94		
	RH002J19-2-23027		5		R1-LRR	1	3012	3077	E=0.0277046		
	RH002J19-2-23027		5		R3a-LRR	1	3552	4186	E=0.0		
	RH002J19-2-23027		5		I2-LRR	2	4208	4288	E=1.78369e-24		
	RH002J19-3-22397		5		R3a-CC	3	1355	1460	E=4.649e-25		1
	RH002J19-3-22397		5		R3a-CC	1	3054	3110	E=1.56604e-08		
	RH002J19-3-22397		5		I2-NBS	1	3113	3407	E=2.7662e-84		
	RH002J19-3-22397		5		R3a-LRR	3	3362	3547	E=2.24166e-70		
	RH002J19-3-22397		5		I2-LRR	2	3556	3637	E=1.23175e-06		1
	RH002J19-3-22397		5		R3a-LRR	1	3682	4029	E=4.37205e-97		
	RH002J19-4-22753		5		I2-CC	2	4737	4901	E=5.85367e-66		1
	RH002J19-4-22753		5		I2-NBS	2	4904	5280	E=4.67455e-145		
	RH002J19-4-22753		5		I2-LRR	2	5281	6048	E=0.0		
	RH002J19-5-25682		5		R3a-CC	3	4391	4555	E=1.14336e-57		1
	RH002J19-5-25682		5		I2-NBS	3	4558	4725	E=7.4623e-57		
	RH002J19-5-25682		5		I2-NBS	1	4956	5165	E=4.23462e-83		
	RH002J19-5-25682		5		I2-LRR	1	5166	5910	E=0.0		
Vf-CNL	RH079N09-1-5438	AC239998	5	44-46	Dm3-LRR	-3	28	189	E=2.34635e-07	RGH-CAPS14	1
	RH079N09-7-5477		5	44-46	Dm3-NBS	-2	581	895	E=1.58746e-46		1
	RH079N09-7-5477		5	44-46	Dm3-LRR	-2	946	1211	E=4.72773e-08		
	RH079N09-7-5477		5	44-46	Rps2-LRR	-2	1431	1597	E=4.40436e-05		
	RH178O02-2-65247	AC238356	5	46	Dm3-NBS	-3	2961	3275	E=7.54123e-53	potato physical map	1
	RH178O02-2-65247		5	46	Rps2-LRR	-3	3281	3626	E=3.51392e-07		
	RH178O02-2-65247		5	46	Rps2-LRR	-2	6123	6262	E=2.16518e-08		
Vg-CNL	RH181H24-11-5867	AC240052	5	60-62	Rpi-blb2-NBS	-2	1	222	E=5.91676e-56	RGH-SSR46	1
	RH181H24-11-5867		5	60-62	Mi-1-LRR	-2	227	560	E=9.75591e-56		
	RH181H24-4-27530		5	60-62	Rpi-blb2-NBS	-3	7559	7624	E=2.41559e-09		1
	RH181H24-4-27530		5	60-62	Rpi-blb2-LRR	-2	7661	7946	E=1.28633e-51		
	RH181H24-6-39167		5	60-62	Rpi-blb2-CC	-3	239	507	E=1.6145e-71		1
	RH181H24-6-39167		5	60-62	Rpi-blb2-NBS	-3	508	844	E=6.02778e-107		
	RH181H24-6-39167		5	60-62	CaMi-LRR	-2	948	1111	E=1.16641e-30		
	RH181H24-6-39167		5	60-62	Rpi-blb2-NBS	-1	9225	9246	E=0.00896792		1
	RH181H24-6-39167		5	60-62	CaMi-LRR	-1	9249	9301	E=3.09182e-06		
	RH181H24-8-25779		5	60-62	Rpi-blb2-CC	-2	3068	3595	E=8.61448e-109		1
	RH181H24-8-25779		5	60-62	Rpi-blb2-NBS	-3	3520	3870	E=5.13961e-110		
	RH181H24-8-25779		5	60-62	Mi-1-LRR	-3	3875	4208	E=9.75591e-56		
	RH181H24-8-25779		5	60-62	Rpi-blb2-NBS	3	6591	6863	E=8.39455e-87		1
	RH181H24-8-25779		5	60-62	CaMi-LRR	1	6889	7143	E=3.6091e-48		
	RH181H24-8-25779		5	60-62	Rpi-blb2-LRR	3	7171	7228	E=0.00285771		
	RH181H24-8-25779		5	60-62	Prf-CC	-2	6702	6871	E=3.83401e-08		1
	RH181H24-8-25779		5	60-62	Rpi-blb2-NBS	-2	6865	7217	E=5.14856e-104		
	RH181H24-8-25779		5	60-62	CaMi-LRR	-2	7222	7551	E=1.78237e-64		
	RH181H24-9-4783		5	60-62	CaMi-LRR	-2	237	452	E=2.93896e-37		1
	RH001G02-2-7308	AC239956	5	65-67	Rpi-blb2-CC	-3	4	303	E=2.32593e-78	BACend tool	1
	RH001G02-2-7308		5	65-67	Rpi-blb2-NBS	-3	305	664	E=2.34385e-113		
	RH001G02-2-7308		5	65-67	Mi-1-LRR	-3	669	1000	E=1.7166e-63		
	RH001G02-2-7308		5	65-67	CaMi-CC	-2	1186	1275	E=7.74166e-17		1
	RH001G02-2-7308		5	65-67	Rpi-blb2-NBS	-2	1266	1391	E=1.48747e-41		
	RH001G02-2-7308		5	65-67	CaMi-LRR	-1	1478	1613	E=7.59338e-15		
	RH001G02-2-7308		5	65-67	CaMi-LRR	-2	1623	1670	E=4.42364e-08		
	RH001G02-3-6061		5	65-67	CaMi-CC	1	92	333	E=9.28477e-52		1
	RH001G02-3-6061		5	65-67	Rpi-blb2-CC	3	318	491	E=2.59935e-40		
	RH001G02-3-6061		5	65-67	Rpi-blb2-NBS	3	492	828	E=3.85247e-97		
	RH001G02-3-6061		5	65-67	Mi-1-LRR	3	833	1161	E=1.91493e-60		
	RH001G02-4-8367		5	65-67	Rpi-blb2-CC	-2	626	891	E=1.28884e-71		1
	RH001G02-4-8367		5	65-67	Rpi-blb2-NBS	-2	893	1248	E=4.93675e-105		
	RH001G02-4-8367		5	65-67	CaMi-LRR	-2	1271	1578	E=2.87528e-55		
	RH001G02-7-7272		5	65-67	Rpi-blb2-CC	2	674	919	E=4.90927e-34		1
	RH001G02-7-7272		5	65-67	Rpi-blb2-CC	1	885	1087	E=1.23089e-57		
	RH001G02-7-7272		5	65-67	CaMi-CC	3	1140	1223	E=4.31697e-17		
	RH001G02-7-7272		5	65-67	Rpi-blb2-NBS	3	1214	1401	E=3.05623e-61		
	RH001G02-8-12598		5	65-67	CaMi-CC	2	1	401	E=5.31263e-107		1
	RH001G02-8-12598		5	65-67	Rpi-blb2-NBS	2	392	744	E=2.24873e-112		
	RH001G02-8-12598		5	65-67	Mi-1-LRR	2	749	1080	E=9.48994e-65		
	RH009O14-10-10466		5	65-67	Rpi-blb2-CC	-1	19	278	E=5.59544e-72	potato physical map	1
	RH009O14-10-10466		5	65-67	Rpi-blb2-NBS	-1	2249	2598	E=5.97942e-106		
	RH009O14-10-10466		5	65-67	Mi-1-LRR	-1	2603	2937	E=5.42757e-64		
	RH009O14-11-14017		5	65-67	Rpi-blb2-CC	-2	2111	2622	E=2.05575e-101		1
	RH009O14-11-14017		5	65-67	Rpi-blb2-NBS	-2	2623	2969	E=3.9364e-109		
	RH009O14-11-14017		5	65-67	Mi-1-LRR	-2	2974	3305	E=1.26028e-64		
	RH009O14-2-11912		5	65-67	Rpi-blb2-CC	-3	3508	3724	E=3.73392e-57		1
	RH009O14-4-54005		5	65-67	Rpi-blb2-CC	3	5778	6092	E=2.24697e-82		1
	RH009O14-4-54005		5	65-67	Mi-1-NBS	1	6068	6148	E=4.1034e-09		
	RH009O14-4-54005		5	65-67	CaMi-LRR	2	6210	6394	E=2.49086e-32		
	RH009O14-4-54005		5	65-67	Rpi-blb2-CC	-2	13122	13644	E=1.5162e-115		1
	RH009O14-4-54005		5	65-67	Rpi-blb2-NBS	-2	13645	13994	E=1.3848e-115		
	RH009O14-4-54005		5	65-67	CaMi-LRR	-2	13999	14329	E=7.35385e-68		
	RH009O14-4-54005		5	65-67	Rpi-blb2-NBS	3	15529	15573	E=2.06206e-08		1
	RH009O14-4-54005		5	65-67	Hero-LRR	2	15656	15791	E=1.97246e-18		
	RH009O14-6-8476		5	65-67	CaMi-LRR	-3	1511	1726	E=1.35268e-37		1
	RH009O14-9-5164		5	65-67	Rpi-blb2-NBS	-1	975	1074	E=5.78761e-17		1
	RH045N13-2-26239	AC239979	5	65-67	CaMi-CC	2	34	172	E=9.89758e-33	BACend tool	1
	RH045N13-2-26239		5	65-67	Rpi-blb2-CC	1	159	412	E=1.3457e-66		
	RH045N13-2-26239		5	65-67	Rpi-blb2-NBS	2	788	1132	E=1.01846e-110		
	RH045N13-2-26239		5	65-67	CaMi-LRR	2	1127	1421	E=7.56214e-58		
	RH045N13-3-27148		5	65-67	Rpi-blb2-CC	2	1112	1622	E=9.68189e-109		1
	RH045N13-3-27148		5	65-67	Rpi-blb2-NBS	2	1624	1976	E=2.03684e-108		
	RH045N13-3-27148		5	65-67	Mi-1-LRR	2	1981	2313	E=5.08742e-57		
	RH045N13-3-27148		5	65-67	Rpi-blb2-LRR	1	6767	6818	E=0.0019796		
	RH045N13-3-27148		5	65-67	Rpi-blb2-NBS	1	6888	7041	E=4.61485e-21		1

	RH045N13-4-16064		5	65-67	Rpi-blb2-CC	2	763	1287	E=4.37227e-117		1
	RH045N13-4-16064		5	65-67	Rpi-blb2-NBS	2	1288	1640	E=7.22973e-113		
	RH045N13-4-16064		5	65-67	Mi-1-LRR	2	1645	1980	E=3.25881e-68		
	RH045N13-5-18489		5	65-67	Rpi-blb2-CC	-1	2575	3097	E=3.10914e-113		1
	RH045N13-5-18489		5	65-67	Rpi-blb2-NBS	-1	3098	3451	E=3.35445e-114		
	RH045N13-5-18489		5	65-67	Mi-1-LRR	-1	3456	3788	E=4.63321e-63		
	RH051N09-1-30687	AC239982	5	65-67	Rpi-blb2-CC	-2	1991	2365	E=1.34444e-98	RGH-SSR12	1
	RH051N09-1-30687		5	65-67	Rpi-blb2-NBS	-2	2368	2452	E=1.06205e-23		
	RH051N09-1-30687		5	65-67	Rpi-blb2-NBS	-3	2397	2671	E=1.02118e-72		
	RH051N09-1-30687		5	65-67	Mi-1-LRR	-3	2676	3005	E=6.30164e-67		
	RH051N09-1-30687		5	65-67	Rpi-blb2-CC	-1	8449	8968	E=1.53067e-111		1
	RH051N09-1-30687		5	65-67	Rpi-blb2-NBS	-1	8969	9322	E=3.44147e-112		
	RH051N09-1-30687		5	65-67	CaMi-LRR	-1	9327	9658	E=2.86862e-63		
	RH051N09-1-30687		5	65-67	Rpi-blb2-NBS	3	9264	9600	E=3.33913e-101		1
	RH051N09-2-37554		5	65-67	CaMi-LRR	-1	3447	3479	E=0.00186016		1
	RH051N09-2-37554		5	65-67	Rpi-blb2-CC	-3	6221	6728	E=2.40123e-112		1
	RH051N09-2-37554		5	65-67	Rpi-blb2-NBS	-3	6729	7082	E=1.4597e-106		
	RH051N09-2-37554		5	65-67	CaMi-LRR	-3	7087	7416	E=8.3343e-68		
	RH051N09-3-39678		5	65-67	Rpi-blb2-CC	3	6917	7390	E=4.88735e-107		1
	RH051N09-3-39678		5	65-67	Rpi-blb2-NBS	3	7391	7740	E=2.21601e-105		
	RH051N09-3-39678		5	65-67	R1-LRR	3	7613	7869	E=8.37744e-13		
	RH051N09-3-39678		5	65-67	CaMi-LRR	2	7788	7955	E=7.19542e-28		
	RH051N09-3-39678		5	65-67	CaMi-LRR	3	8775	8932	E=5.19979e-26		
	RH051N09-3-39678		5	65-67	Rpi-blb2-CC	1	10910	11428	E=6.3227e-111		1
	RH051N09-3-39678		5	65-67	Rpi-blb2-NBS	1	11429	11784	E=3.32947e-111		
	RH051N09-3-39678		5	65-67	CaMi-LRR	1	11789	12123	E=1.36392e-66		
	RH051N09-7-14106		5	65-67	Rpi-blb2-CC	1	2825	3341	E=2.51881e-91		1
	RH051N09-7-14106		5	65-67	Rpi-blb2-NBS	2	3313	3446	E=1.23623e-46		
	RH051N09-7-14106		5	65-67	Rpi-blb2-NBS	1	3485	3644	E=5.40572e-51		
	RH051N09-7-14106		5	65-67	R1-LRR	1	3557	3635	E=0.000130669		
	RH085B11-2-20197	AC234535	5	65-67	Rpi-blb2-CC	-1	3364	3884	E=1.03262e-116	BACend tool	1
	RH085B11-2-20197		5	65-67	Rpi-blb2-NBS	-1	3885	4222	E=7.80484e-108		
	RH085B11-2-20197		5	65-67	CaMi-LRR	-3	4211	4484	E=4.75451e-47		
	RH085B11-3-6911		5	65-67	Rpi-blb2-CC	-2	404	937	E=5.1663e-117		1
	RH085B11-3-6911		5	65-67	Rpi-blb2-NBS	-2	938	1296	E=1.0794e-111		
	RH085B11-3-6911		5	65-67	Mi-1-LRR	-2	1301	1639	E=3.37039e-67		
Via-CNL	RH015L03-1-16922	AC237944	6	1-15	Rpi-blb2-CC	-3	1368	1487	E=9.84098e-24	RGH-SSR5	1
	RH015L03-1-16922		6	1-15	Rpi-blb2-NBS	-3	1500	1575	E=7.9239e-27		
	RH015L03-1-16922		6	1-15	Rpi-blb2-NBS	-1	1568	1634	E=5.24075e-14		
	RH015L03-3-22311		6	1-15	Rpi-blb2-CC	2	655	764	E=6.99595e-21		1
	RH015L03-3-22311		6	1-15	Rpi-blb2-NBS	1	764	844	E=2.79973e-81		
	RH015L03-3-22311		6	1-15	Rpi-blb2-NBS	2	860	925	E=9.6365e-14		
	RH015L03-6-8827		6	1-15	Rpi-blb2-CC	1	881	929	E=1.31183e-10		1
	RH015L03-6-8827		6	1-15	Rpi-blb2-CC	2	919	991	E=2.10703e-16		
	RH015L03-6-8827		6	1-15	Rpi-blb2-NBS	3	993	1192	E=3.55894e-25		
	RH015L03-6-8827		6	1-15	Mi-1-LRR	2	1257	1397	E=3.18399e-33		
	RH086N05-2-6659	AC238154	6	2	CaMi-CC	-1	371	958	E=0.0	RGH-SSR23	1
	RH086N05-2-6659		6	2	Rpi-blb2-NBS	-1	949	1303	E=8.19972e-168		
	RH086N05-2-6659		6	2	Rpi-blb2-LRR	-1	1304	1661	E=1.0609e-140		
	RH086N05-3-24570		6	2	CaMi-CC	-3	1811	2399	E=0.0		1
	RH086N05-3-24570		6	2	Rpi-blb2-NBS	-3	2390	2746	E=2.81412e-173		
	RH086N05-3-24570		6	2	Rpi-blb2-LRR	-3	2748	2913	E=1.54014e-63		
	RH086N05-3-24570		6	2	Rpi-blb2-LRR	-1	4203	4372	E=1.04468e-78		
	RH086N05-5-45462		6	2	CaMi-CC	-1	1664	2248	E=0.0		1
	RH086N05-5-45462		6	2	Rpi-blb2-NBS	-1	2239	2585	E=4.95908e-147		
	RH086N05-5-45462		6	2	Mi-1-LRR	-1	2586	2946	E=1.37876e-157		
	RH086N05-5-45462		6	2	Rpi-blb2-CC	-3	9874	10462	E=0.0		1
	RH086N05-5-45462		6	2	Rpi-blb2-NBS	-3	10463	10817	E=0.0		
	RH086N05-5-45462		6	2	Rpi-blb2-LRR	-3	10818	11178	E=3.90675e-162		
	RH080A10-2-37145	AC238125	6	3-15	Rpi-blb2-CC	2	1599	1927	E=3.45711e-150	RGH-SSR21	1
	RH080A10-2-37145		6	3-15	Rpi-blb2-NBS	2	1928	2282	E=5.25548e-177		
	RH080A10-2-37145		6	3-15	Rpi-blb2-LRR	2	2283	2643	E=1.80072e-157		
	RH080A10-2-37145		6	3-15	Rpi-blb2-CC	1	5607	5916	E=6.86647e-143		1
	RH080A10-2-37145		6	3-15	Rpi-blb2-NBS	1	5917	6270	E=2.61054e-173		
	RH080A10-2-37145		6	3-15	Rpi-blb2-LRR	1	6271	6631	E=2.49326e-157		
	RH080A10-3-25546		6	3-15	Prf-CC	3	40	233	E=6.98923e-09		1
	RH080A10-3-25546		6	3-15	I2-NBS	3	198	538	E=9.0804e-42		
	RH080A10-3-25546		6	3-15	Hero-LRR	3	584	930	E=2.16443e-43		
	RH080A10-3-25546		6	3-15	CaMi-CC	3	2617	3194	E=0.0		1
	RH080A10-3-25546		6	3-15	Rpi-blb2-NBS	3	3185	3538	E=2.3261e-168		
	RH080A10-3-25546		6	3-15	Rpi-blb2-LRR	3	3539	3899	E=1.83102e-157		
	RH080A10-3-25546		6	3-15	Hero-CC	3	4854	5370	E=6.19795e-58		1
	RH080A10-3-25546		6	3-15	Sw-5-NBS	3	5360	5690	E=1.64749e-74		
	RH080A10-3-25546		6	3-15	Prf-LRR	3	5670	6083	E=2.2783e-38		
	RH061F19-2-4835	AC237844	6	3	CaMi-NBS	-3	644	724	E=7.33808e-18	BACend tool	1
	RH061F19-2-4835		6	3	Mi-1-LRR	-3	722	970	E=6.19336e-98		
	RH061F19-2-4835		6	3	Rpi-blb2-LRR	-1	945	1051	E=1.84576e-43		
	RH061F19-4-30043		6	3	CaMi-CC	-2	2629	3182	E=0.0		1
	RH061F19-4-30043		6	3	Rpi-blb2-NBS	-2	3173	3527	E=1.2317e-145		
	RH061F19-4-30043		6	3	Rpi-blb2-LRR	-2	3528	3875	E=7.40851e-142		
	RH061F19-4-30043		6	3	Rpi-blb2-CC	-1	4780	4898	E=1.41569e-35		1
	RH061F19-4-30043		6	3	CaMi-CC	-3	8268	8827	E=0.0		
	RH061F19-4-30043		6	3	Rpi-blb2-NBS	-3	8818	9105	E=4.32955e-126		
	RH061F19-5-60727		6	3	Rpi-blb2-CC	-3	2943	3002	E=2.54688e-24		1
	RH061F19-5-60727		6	3	Rpi-blb2-CC	-2	8065	8267	E=2.01425e-85		
	RH061F19-5-60727		6	3	Prf-CC	-1	9963	10067	E=0.485284		
	RH061F19-5-60727		6	3	Rpi-blb2-NBS	-3	10087	10433	E=1.32352e-156		
	RH061F19-5-60727		6	3	Rpi-blb2-CC	-1	16245	16724	E=2.13561e-171		1
	RH061F19-5-60727		6	3	Rpi-blb2-NBS	-2	16736	17091	E=4.30577e-145		
	RH061F19-5-60727		6	3	CaMi-LRR	-3	17316	17581	E=2.37773e-106		
	RH061F19-6-18325		6	3	CaMi-CC	-2	1376	1935	E=0.0		1
	RH061F19-6-18325		6	3	Rpi-blb2-NBS	-2	1926	2279	E=3.13038e-151		
	RH061F19-6-18325		6	3	Rpi-blb2-LRR	-2	2280	2640	E=6.64311e-144		
	RH061F19-6-18325		6	3	Rpi-blb2-CC	-1	4238	4447	E=1.42383e-44		1
	RH061F19-6-18325		6	3	Rpi-blb2-CC	-3	4377	4621	E=1.21635e-98		
	RH148L18-2-29469	AC238274	6	3	Rpi-blb2-LRR	3	611	689	E=5.69371e-14	potato physical map	1
	RH148L18-2-29469		6	3	CaMi-CC	1	2071	2630	E=0.0		1
	RH148L18-2-29469		6	3	Rpi-blb2-NBS	1	2621	2908	E=1.71532e-125		

RH148L18-2-29469	6	3	Rpi-blb2-LRR	1	3961	4201	E=5.46477e-98	
RH148L18-2-29469	6	3	Rpi-blb2-LRR	2	4116	4222	E=5.32572e-43	
RH148L18-3-29918	6	3	CaMi-CC	-1	2421	2980	E=0.0	
RH148L18-3-29918	6	3	Rpi-blb2-NBS	-1	2971	3324	E=3.57642e-152	1
RH148L18-3-29918	6	3	Rpi-blb2-LRR	-1	3325	3685	E=6.11132e-144	
RH148L18-3-29918	6	3	Rpi-blb2-CC	-2	5425	5669	E=3.01932e-99	
RH148L18-3-29918	6	3	M-NBS	-1	6885	7107	E=6.5675e-11	1
RH148L18-3-29918	6	3	Mi-1-LRR	-3	8045	8259	E=6.11741e-83	
RH148L18-3-29918	6	3	Rpi-blb2-CC	-3	8727	8917	E=2.04458e-91	1
RH148L18-3-29918	6	3	Hero-CC	-3	9201	9316	E=1.76294e-20	
RH148L18-4-3107	6	3	Rpi-blb2-CC	-3	105	223	E=6.35659e-35	
RH160J08-1-42784	AC240042	6	3-5 CaMi-CC	3	3268	3835	E=0.0	1
RH160J08-1-42784		6	3-5 Rpi-blb2-NBS	3	3826	4173	E=1.05082e-146	
RH160J08-1-42784		6	3-5 Rpi-blb2-LRR	3	4174	4342	E=2.27439e-71	
RH160J08-1-42784		6	3-5 Rpi-blb2-CC	1	5309	5616	E=3.5339e-103	1
RH160J08-1-42784		6	3-5 Mi-1-CC	2	5608	6043	E=0.0	
RH160J08-1-42784		6	3-5 Rpi-blb2-NBS	1	6193	6346	E=2.32872e-49	
RH160J08-1-42784		6	3-5 Mi-1-LRR	1	6513	6676	E=1.20809e-66	
RH160J08-1-42784		6	3-5 Sw-5-CC	2	11537	11860	E=9.77342e-21	1
RH160J08-1-42784		6	3-5 Rpi-blb2-NBS	2	11877	12221	E=2.60164e-156	
RH160J08-1-42784		6	3-5 Mi-1-LRR	2	12222	12582	E=1.34468e-157	
RH160J08-2-49247		6	3-5 Mi-1-CC	-3	10445	10666	E=5.13183e-84	1
RH160J08-2-49247		6	3-5 Rpi-blb2-CC	-1	12308	12487	E=2.22071e-65	
RH160J08-2-49247		6	3-5 Rpi-blb2-CC	-3	12477	12850	E=5.19936e-95	
RH160J08-2-49247		6	3-5 R1-NBS	-3	12855	13053	E=1.89738e-44	
RH160J08-2-49247		6	3-5 Mi-1-LRR	-2	13403	13573	E=2.20612e-61	
RH160J08-2-49247		6	3-5 Rpi-blb2-NBS	-3	14872	15225	E=6.79939e-152	1
RH160J08-2-49247		6	3-5 Rpi-blb2-LRR	-3	15226	15394	E=2.08036e-62	
RH160J08-3-18915		6	3-5 Mi-1-LRR	1	1	215	E=1.14969e-93	1
RH160J08-3-18915		6	3-5 Rpi-blb2-CC	1	699	801	E=6.83247e-45	1
RH160J08-3-18915		6	3-5 Rpi-blb2-CC	2	1131	1477	E=1.1985e-149	
RH160J08-3-18915		6	3-5 Rpi-blb2-NBS	2	1478	1825	E=3.0661e-165	
RH160J08-3-18915		6	3-5 Rpi-blb2-LRR	3	3239	3560	E=5.04858e-141	
RH160J08-3-18915		6	3-5 Rpi-blb2-CC	3	4896	4944	E=6.41211e-05	1
RH062C02-1-12479	AC237846	6	11-17 Rpi-blb2-CC	-1	3833	3887	E=4.21758e-11	1
RH062C02-2-110765		6	11-17 Rpi-blb2-NBS	-1	26918	27017	E=2.55849e-41	
RH062C02-2-110765		6	11-17 CaMi-LRR	-3	27191	27444	E=1.10336e-49	
RH062C02-2-110765		6	11-17 Rpi-blb2-CC	-2	28095	28346	E=1.20414e-104	1
RH062C02-2-110765		6	11-17 Rpi-blb2-NBS	-3	28459	28802	E=6.11147e-117	
RH062C02-2-110765		6	11-17 Rpi-blb2-LRR	-3	28803	28951	E=3.64378e-57	
RH062C02-2-110765		6	11-17 Rpi-blb2-LRR	-2	28987	29094	E=7.13398e-42	
RH062C02-2-110765		6	11-17 Sw-5-LRR	-1	29873	29939	E=1.43544e-05	
RH062C02-3-1274		6	11-17 Mi-1-CC	-3	15	421	E=1.45276e-120	1
RH102N16-2-4229	AC238200	6	11-17 Mi-1-NBS	1	14	34	E=0.000359579	1
RH102N16-2-4229		6	11-17 Rpi-blb2-NBS	3	32	190	E=9.66325e-62	
RH102N16-2-4229		6	11-17 CaMi-NBS	2	174	205	E=1.9875e-05	
RH102N16-2-4229		6	11-17 Mi-1-LRR	2	203	457	E=9.04227e-59	
RH102N16-2-4229		6	11-17 Rpi-blb2-LRR	3	626	683	E=1.01958e-18	
RH102N16-2-4229		6	11-17 Rpi-blb2-CC	2	1158	1304	E=9.10263e-34	1
RH102N16-3-3740		6	11-17 Rpi-blb2-NBS	2	1	135	E=6.96542e-40	1
RH102N16-3-3740		6	11-17 Mi-1-LRR	2	137	497	E=2.36343e-140	
RH102N16-5-6527		6	11-17 Rpi-blb2-NBS	-1	1	194	E=1.39407e-92	1
RH102N16-5-6527		6	11-17 Rpi-blb2-LRR	-1	195	432	E=4.62889e-95	
RH102N16-5-6527		6	11-17 Mi-1-LRR	-2	391	508	E=1.87845e-40	
RH102N16-5-6527		6	11-17 Rpi-blb2-LRR	-3	1606	1631	E=0.00281041	
RH102N16-5-6527		6	11-17 Sw-5-LRR	-1	1689	1755	E=1.9063e-05	
RH151C01-4-13416	AC238283	6	11-17 Mi-1-CC	3	225	251	E=0.874511	1
RH151C01-4-13416		6	11-17 Rpi-blb2-NBS	3	291	390	E=3.4549e-41	
RH151C01-4-13416		6	11-17 Gpa2-LRR	1	681	757	E=1.74119e-06	
RH151C01-4-13416		6	11-17 Rpi-blb2-CC	1	1384	1635	E=1.20414e-104	1
RH151C01-4-13416		6	11-17 CaMi-CC	2	1590	1737	E=3.60322e-36	
RH151C01-4-13416		6	11-17 Rpi-blb2-NBS	2	1728	2071	E=5.57875e-115	
RH151C01-4-13416		6	11-17 Rpi-blb2-LRR	2	2072	2220	E=2.08398e-56	
RH151C01-4-13416		6	11-17 Rpi-blb2-LRR	3	2174	2264	E=3.55187e-30	
RH151C01-4-13416		6	11-17 Rpi-blb2-LRR	1	2276	2383	E=7.62643e-42	
RH151C01-4-13416		6	11-17 Sw-5-LRR	3	3246	3312	E=1.4596e-05	
RH151C01-6-19155		6	11-17 CaMi-LRR	1	300	344	E=7.73684e-08	1
RH151C01-6-19155		6	11-17 Mi-1-LRR	2	329	372	E=1.29202e-07	
RH151C01-6-19155		6	11-17 Rpi-blb2-CC	-2	373	937	E=6.75241e-172	
RH151C01-6-19155		6	11-17 Rpi-blb2-NBS	-2	938	1293	E=1.4227e-137	
RH151C01-6-19155		6	11-17 Mi-1-LRR	-2	1295	1655	E=4.41508e-143	
RH074N01-4-15827	AC238108	6	16-17 Rpi-blb2-CC	-2	1	250	E=1.28801e-102	1
RH074N01-4-15827		6	16-17 Rpi-blb2-NBS	-2	251	572	E=2.04085e-130	
RH074N01-4-15827		6	16-17 R1-LRR	-2	470	565	E=6.00542e-10	
RH074N01-4-15827		6	16-17 Mi-1-LRR	-3	556	724	E=1.0009e-53	
RH074N01-4-15827		6	16-17 Mi-1-LRR	-2	1471	1713	E=7.77002e-64	
RH126I21-16-8999	AC238227	6	23-24 CaMi-CC	2	231	781	E=0.0	1
RH126I21-16-8999		6	23-24 Rpi-blb2-NBS	2	772	1126	E=2.93419e-144	
RH126I21-16-8999		6	23-24 Mi-1-LRR	2	1127	1489	E=7.50919e-153	
RH126I21-2-14009		6	23-24 CaMi-CC	-3	233	283	E=3.25352e-14	1
RH126I21-2-14009		6	23-24 Rpi-blb2-NBS	-3	274	323	E=9.08189e-17	
RH126I21-2-14009		6	23-24 Rpi-blb2-NBS	-1	323	574	E=2.2605e-94	
RH126I21-2-14009		6	23-24 Rpi-blb2-LRR	-1	600	782	E=3.21232e-60	
RH126I21-4-14661		6	23-24 CaMi-CC	-3	418	520	E=8.49513e-42	1
RH126I21-4-14661		6	23-24 Rpi-blb2-CC	-2	519	633	E=2.74851e-49	
RH126I21-4-14661		6	23-24 Rpi-blb2-CC	-1	622	736	E=4.00325e-47	
RH126I21-4-14661		6	23-24 Rpi-blb2-NBS	-3	789	1063	E=4.08037e-129	
RH126I21-4-14661		6	23-24 Mi-1-LRR	-3	2539	2752	E=1.74841e-86	
RH126I21-4-14661		6	23-24 Rpi-blb2-LRR	-1	3088	3175	E=3.00006e-08	
RH125E08-3-30619	AC240012	6	Rpi-blb2-CC	-3	1910	2369	E=9.2439e-96	1
RH125E08-3-30619		6	Rpi-blb2-NBS	-1	2389	2745	E=9.2726e-118	
RH125E08-3-30619		6	CaMi-LRR	-1	2750	3066	E=3.47247e-66	
RH010L20-1-44116	AC237930	6	Rpi-blb2-CC	1	1287	1633	E=1.07156e-161	1
RH010L20-1-44116		6	Rpi-blb2-NBS	1	1634	1988	E=5.79081e-159	
RH010L20-1-44116		6	Rpi-blb2-LRR	1	1989	2350	E=3.19778e-162	
RH010L20-1-44116		6	Prf-CC	3	4287	4474	E=7.7275e-08	1
RH010L20-1-44116		6	Mla1-NBS	3	4448	4784	E=6.79363e-30	
RH010L20-1-44116		6	CaMi-CC	2	6129	6663	E=0.0	1

RH010L20-1-44116		6	Rpi-blb2-NBS	2	6654	7007	E=2.26926e-167	
RH010L20-1-44116		6	Rpi-blb2-LRR	2	7008	7368	E=3.91469e-155	
RH010L20-1-44116		6	CaMi-CC	3	10841	11397	E=0.0	1
RH010L20-1-44116		6	Rpi-blb2-NBS	3	11388	11738	E=5.33807e-152	
RH010L20-1-44116		6	Mi-1-LRR	3	11739	11999	E=1.72336e-107	
RH010L20-1-44116		6	I2-LRR	1	12760	12852	E=0.00311261	
RH010L20-3-17195		6	Rpi-blb2-CC	-3	3880	4271	E=2.40301e-167	1
RH010L20-3-17195		6	Rpi-blb2-NBS	-3	4272	4624	E=1.77599e-149	
RH010L20-3-17195		6	Mi-1-LRR	-3	4625	4890	E=3.01062e-111	
RH010L20-3-17195		6	Rpi-blb2-LRR	-2	4817	4913	E=8.73082e-36	
RH010L20-5-41313		6	Rpi-blb2-CC	1	12667	12955	E=2.18115e-127	1
Vib-TNL								
RH001C14-1-10789	AC239955	6	16 N-Nt-NBS	2	1897	2122	E=3.22786e-74	BACend tool
RH001C14-3-7384		6	16 Y-1-LRR	-3	1235	1288	E=6.7903e-10	1
RH001C14-3-7384		6	16 N-Nt-CNL	-3	1239	1412	E=2.14114e-30	
RH001C14-4-3319		6	16 Bs4-NBS	2	103	161	E=4.15732e-09	1
RH001C14-4-3319		6	16 N-Nt-LRR	2	125	230	E=1.39228e-13	
RH001C14-4-3319		6	16 P2-NBS	2	164	226	E=3.02975e-06	1
RH001C14-6-6494		6	16 Bs4-LRR	1	220	437	E=2.1639e-55	1
RH001C14-7-18773		6	16 Y-1-LRR	-3	2529	2927	E=1.30522e-115	1
RH001C14-7-18773		6	16 N-Nt-CNL	-3	2880	3006	E=3.23361e-47	
RH001C14-7-18773		6	16 N-Nt-LRR	-2	3449	3596	E=9.57502e-39	1
RH001C14-8-12619		6	16 Bs4-TIR	3	1733	1816	E=4.72095e-38	1
RH001C14-8-12619		6	16 Bs4-TIR	2	3319	3396	E=8.37442e-18	
RH001C14-8-12619		6	16 N-Nt-NBS	2	3460	3713	E=1.85135e-92	
RH001C14-9-3112		6	16 Bs4-TIR	-2	333	490	E=4.67058e-75	1
RH001C14-9-3112		6	16 Bs4-NBS	-1	583	953	E=1.05479e-135	
RH020A06-1-23965	AC237953	6	16 Y-1-LRR	2	1840	1979	E=6.58225e-31	potato physical map
RH020A06-1-23965		6	16 Bs4-LRR	3	1976	2014	E=4.35056e-06	
RH020A06-1-23965		6	16 N-Nt-CNL	3	2000	2119	E=4.49935e-30	
RH020A06-1-23965		6	16 Bs4-NBS	-1	6769	6829	E=1.1985e-11	1
RH020A06-1-23965		6	16 Bs4-LRR	-3	6895	6940	E=1.85429e-12	
RH020A06-1-23965		6	16 N-Nt-LRR	-2	7005	7114	E=5.07008e-16	
RH020A06-1-23965		6	16 Y-1-LRR	-1	7040	7265	E=9.52621e-51	
RH020A06-1-23965		6	16 N-Nt-CNL	-2	7264	7355	E=1.75614e-23	
RH020A06-10-7375		6	16 Bs4-TIR	-3	673	830	E=1.16908e-75	1
RH020A06-10-7375		6	16 Bs4-NBS	-2	923	1293	E=6.5538e-137	
RH020A06-10-7375		6	16 Bs4-NBS	-1	1384	1442	E=4.29842e-09	
RH020A06-10-7375		6	16 N-Nt-LRR	-1	1406	1511	E=1.13962e-13	
RH020A06-11-4912		6	16 Y-1-LRR	-1	1123	1176	E=6.62244e-10	1
RH020A06-11-4912		6	16 N-Nt-CNL	-1	1127	1300	E=2.25106e-30	
RH020A06-2-13127		6	16 Bs4-TIR	-1	1727	1810	E=4.60424e-38	1
RH020A06-2-13127		6	16 Bs4-TIR	-3	3312	3389	E=8.37442e-18	
RH020A06-2-13127		6	16 N-Nt-NBS	-3	3453	3706	E=2.13349e-92	
RH020A06-3-25187		6	16 N-Nt-NBS	-1	6729	6954	E=2.14403e-75	1
RH020A06-4-21605		6	16 Y-1-LRR	1	4254	4357	E=1.54433e-24	1
RH020A06-4-21605		6	16 Y-1-LRR	2	4441	4542	E=1.47404e-12	
RH020A06-4-21605		6	16 N-Nt-CNL	2	4500	4620	E=5.39809e-35	
RH020A06-5-11184		6	16 Y-1-LRR	-3	94	492	E=1.26237e-115	1
RH020A06-5-11184		6	16 N-Nt-CNL	-3	445	571	E=1.72947e-47	
RH020A06-5-11184		6	16 N-Nt-LRR	-2	1007	1154	E=7.33133e-39	1
RH020A06-9-8043		6	16 Bs4-LRR	-3	776	993	E=5.28405e-55	1
RH031N12-1-12738	AC237983	6	16-19 Y-1-LRR	-1	253	702	E=8.10793e-89	RGH-SSR8
RH031N12-1-12738		6	16-19 N-Nt-CNL	-1	644	780	E=3.2607e-47	1
RH031N12-8-50141		6	16-19 Bs4-TIR	1	7250	7408	E=3.18557e-71	1
RH031N12-8-50141		6	16-19 Bs4-NBS	3	7389	7495	E=2.03842e-21	
RH031N12-8-50141		6	16-19 Bs4-NBS	1	7587	7856	E=2.19824e-106	
RH061D10-1-45637	AC237843	6	16 Bs4-TIR	2	8839	8996	E=1.03155e-75	BACend tool
RH061D10-1-45637		6	16 Bs4-NBS	1	9086	9456	E=7.67521e-139	1
RH061D10-1-45637		6	16 Bs4-NBS	3	9571	9629	E=2.417e-09	
RH061D10-1-45637		6	16 N-Nt-LRR	3	9593	9698	E=1.16851e-13	
RH061D10-1-45637		6	16 Y-1-LRR	1	13632	14030	E=7.58831e-116	
RH061D10-1-45637		6	16 N-Nt-CNL	1	13983	14109	E=3.23361e-47	
RH074N01-11-2483	AC238108	6	16-17 N-Nt-NBS	2	40	278	E=4.20473e-83	potato physical map
RH074N01-11-2483		6	16-17 N-Nt-NBS	1	243	342	E=5.17165e-31	
RH074N01-11-2483		6	16-17 Bs4-LRR	2	539	585	E=8.90068e-12	
RH106C12-1-15423	AC238211	6	16-19 Bs4-TIR	-1	4488	4650	E=6.08936e-81	RGH-SSR30
RH106C12-1-15423		6	16-19 N-Nt-NBS	-1	4737	4775	E=4.82681e-10	
RH106C12-4-3699		6	16-19 Rpi-blb2-CC	-3	1	262	E=1.08973e-103	1
RH106C12-4-3699		6	16-19 Rpi-blb2-NBS	-3	263	392	E=1.76566e-54	
RH106C12-4-3699		6	16-19 Mi-1-NBS	-1	374	427	E=4.67316e-21	
RH106C12-4-3699		6	16-19 Rpi-blb2-NBS	-2	413	580	E=3.84181e-49	
RH106C12-4-3699		6	16-19 Mi-1-LRR	-2	581	933	E=8.62265e-79	
RH106C12-4-3699		6	16-19 CaMi-LRR	-1	665	813	E=1.61172e-37	
RH123D21-4-33616	AC238221	6	16-18 Bs4-LRR	1	4034	4137	E=4.64279e-12	potato physical map
RH123D21-4-33616		6	16-18 N-Nt-NBS	-3	7435	7479	E=1.26039e-08	1
RH123D21-4-33616		6	16-18 Y-1-NBS	-3	7435	7481	E=1.70229e-07	
RH123D21-4-33616		6	16-18 Bs4-NBS	-2	7490	7869	E=2.43114e-104	
RH123D21-4-33616		6	16-18 Y-1-LRR	-2	7889	8308	E=9.11522e-88	
RH123D21-4-33616		6	16-18 N-Nt-CNL	-2	8264	8386	E=9.19175e-41	
RH044F20-1-8317	AC238020	6	23-24 Bs4-TIR	-1	675	825	E=3.34716e-73	BACend tool
RH044F20-1-8317		6	23-24 Rpp5-TIR	-3	941	994	E=4.13776e-05	
RH044F20-1-8317		6	23-24 N-Nt-NBS	-3	945	1219	E=2.5356e-72	
RH044F20-1-8317		6	23-24 Y-1-NBS	-2	1135	1187	E=9.09665e-11	
RH044F20-1-8317		6	23-24 Y-1-NBS	-1	1214	1308	E=2.4708e-17	
RH044F20-1-8317		6	23-24 Bs4-LRR	-2	1435	1486	E=4.33922e-15	
RH044F20-1-8317		6	23-24 N-Nt-LRR	-1	2312	2531	E=3.48478e-43	
RH095H07-3-17331	AC238176	6	23-24 Y-1-CNL	-2	875	907	E=2.40367e-07	RGH-SSR26
RH095H07-3-17331		6	23-24 Y-1-TIR	-3	1443	1469	E=0.0519986	1
RH095H07-3-17331		6	23-24 Bs4-TIR	-2	2645	2785	E=1.17486e-58	
RH095H07-3-17331		6	23-24 N-Nt-NBS	-1	2833	2887	E=1.14031e-08	
RH095H07-3-17331		6	23-24 N-Nt-NBS	-2	2907	2956	E=2.16729e-09	
RH095H07-4-13282		6	23-24 Bs4-LRR	-2	2149	2249	E=6.01852e-09	1
RH095H07-4-13282		6	23-24 N-Nt-NBS	1	2959	3015	E=8.71838e-14	
RH095H07-4-13282		6	23-24 N-Nt-NBS	2	3018	3296	E=4.71342e-92	
RH095H07-4-13282		6	23-24 N-Nt-NBS	3	3386	3670	E=1.75891e-96	
RH095H07-4-13282		6	23-24 Bs4-LRR	1	3778	3821	E=4.4943e-09	
RH095H07-4-13282		6	23-24 N-Nt-LRR	3	3846	3885	E=2.24469e-06	
RH095H07-4-13282		6	23-24 Y-1-LRR	2	3884	4150	E=1.12464e-53	

RH095H07-5-21246		6	23-24	N-Nt-CNL	-3	5719	5823	E=7.49586e-25		1
RH095H07-6-32606		6	23-24	N-Nt-NBS	3	187	429	E=3.70364e-89		1
RH095H07-6-32606		6	23-24	Bs4-LRR	1	507	551	E=2.22985e-09		
RH095H07-6-32606		6	23-24	Y-1-LRR	3	604	967	E=1.78814e-94		
RH095H07-6-32606		6	23-24	N-Nt-CNL	3	922	1046	E=3.21232e-41		
RH095H07-6-32606		6	23-24	N-Nt-LRR	-3	5601	5675	E=3.1803e-13		1
RH095H07-7-9877		6	23-24	N-Nt-NBS	-1	414	753	E=8.14206e-106		1
RH095H07-7-9877		6	23-24	Bs4-LRR	-1	855	899	E=9.28255e-11		
RH095H07-7-9877		6	23-24	N-Nt-LRR	-3	863	947	E=1.43047e-06		
RH095H07-7-9877		6	23-24	Y-1-LRR	-2	929	1260	E=2.08757e-78		
RH095H07-7-9877		6	23-24	N-Nt-CNL	-2	1202	1338	E=4.12479e-42		
RH095H07-8-31530		6	23-24	Bs4-NBS	2	2113	2229	E=8.2999e-13		1
RH095H07-8-31530		6	23-24	Bs4-LRR	1	2232	2273	E=6.27128e-11		
RH095H07-8-31530		6	23-24	Y-1-LRR	3	2301	2557	E=4.98608e-68		
RH095H07-8-31530		6	23-24	Y-1-LRR	2	2607	2653	E=2.23649e-13		
RH095H07-8-31530		6	23-24	N-Nt-CNL	2	2608	2732	E=3.32134e-41		
RH095H07-8-31530		6	23-24	Y-1-LRR	-2	8937	9076	E=3.00175e-34		1
RH095H07-8-31530		6	23-24	Bs4-LRR	-3	9090	9129	E=9.85227e-07		
RH095H07-8-31530		6	23-24	N-Nt-CNL	-3	9109	9233	E=1.05381e-29		
RH095H07-9-37540		6	23-24	N-Nt-LRR	-2	4719	4790	E=5.52086e-10		1
RH095H07-9-37540		6	23-24	N-Nt-NBS	2	8068	8231	E=1.13627e-49		1
RH095H07-9-37540		6	23-24	Bs4-NBS	1	8977	9147	E=4.42116e-27		
RH095H07-9-37540		6	23-24	N-Nt-LRR	3	9131	9170	E=2.50114e-07		
RH095H07-9-37540		6	23-24	Y-1-LRR	2	9149	9363	E=9.16349e-41		
RH095H07-9-37540		6	23-24	Bs4-LRR	1	9163	9207	E=1.96582e-12		
RH095H07-9-37540		6	23-24	Y-1-LRR	3	9365	9457	E=2.93264e-28		
RH095H07-9-37540		6	23-24	N-Nt-CNL	3	9412	9536	E=2.74059e-42		
RH169F21-10-21085	AC238336	6	23-24	Bs4-NBS	-3	3757	4089	E=7.29078e-86	potato physical map	1
RH169F21-10-21085		6	23-24	N-Nt-LRR	2	3884	3929	E=4.75785e-05		
RH169F21-10-21085		6	23-24	N-Nt-LRR	-2	4174	4247	E=9.87767e-18		
RH169F21-10-21085		6	23-24	Y-1-LRR	-3	4355	4555	E=2.77975e-40		
RH169F21-10-21085		6	23-24	N-Nt-CNL	-3	4510	4633	E=6.64052e-40		
RH169F21-18-3387		6	23-24	Bs4-NBS	-3	1	53	E=1.24992e-10		1
RH169F21-18-3387		6	23-24	Bs4-NBS	-1	51	243	E=2.42176e-31		
RH169F21-18-3387		6	23-24	Bs4-LRR	-1	259	305	E=2.91059e-11		
RH169F21-18-3387		6	23-24	Y-1-LRR	-2	310	654	E=1.57377e-74		
RH169F21-18-3387		6	23-24	N-Nt-CNL	-2	609	699	E=2.53439e-24		
RH169F21-18-3387		6	23-24	N-Nt-CNL	-1	670	730	E=2.44355e-06		
RH169F21-4-5086		6	23-24	Bs4-LRR	1	887	990	E=5.00486e-12		1
RH169F21-5-21775		6	23-24	Y-1-LRR	-2	1993	2372	E=5.47895e-117		1
RH169F21-5-21775		6	23-24	N-Nt-CNL	-2	2325	2451	E=1.33569e-46		
RH169F21-5-21775		6	23-24	Y-1-LRR	-1	2903	3162	E=4.00904e-72		1
RH169F21-5-21775		6	23-24	N-Nt-LRR	-3	3212	3283	E=3.46105e-09		
RH169F21-7-6199		6	23-24	Bs4-TIR	3	577	734	E=9.03421e-73		1
RH169F21-7-6199		6	23-24	Bs4-NBS	3	828	978	E=7.58474e-36		
RH169F21-7-6199		6	23-24	Bs4-NBS	1	1115	1340	E=7.04943e-87		
RH169F21-7-6199		6	23-24	N-Nt-LRR	3	1501	1606	E=1.03938e-14		
RH169F21-8-21528		6	23-24	N-Nt-CNL	1	1073	1217	E=2.14487e-24		1
RH169F21-8-21528		6	23-24	Bs4-TIR	2	3497	3580	E=5.00344e-39		1
RH169F21-8-21528		6	23-24	Bs4-TIR	3	5042	5119	E=2.20316e-19		
RH169F21-8-21528		6	23-24	Bs4-NBS	3	5185	5620	E=5.64312e-135		
RH169F21-8-21528		6	23-24	Y-1-LRR	3	5640	6066	E=1.90284e-81		
RH169F21-8-21528		6	23-24	N-Nt-CNL	3	6039	6156	E=4.94473e-21		
RH169F21-9-370		6	23-24	N-Nt-NBS	-1	66	119	E=3.26004e-11		1
RH061F13-7-23787	AC238074	6	27-29	Bs4-TIR	3	1375	1440	E=3.07693e-18	SSR-RGH17	1
RH061F13-7-23787		6	27-29	Y-1-NBS	3	1543	1775	E=1.96272e-34		
RH061F13-7-23787		6	27-29	Bs4-NBS	1	1746	1847	E=4.9661e-29		
RH061F13-7-23787		6	27-29	N-Nt-LRR	3	2394	2466	E=4.25642e-15		
RH001F12-3-30310	AC237902	6		Y-1-LRR	3	3557	4006	E=6.05632e-88	RGH-SSR1 (SH06B005)	1
RH001F12-3-30310		6		N-Nt-CNL	3	3948	4084	E=8.58328e-47		
RH001F12-4-25627		6		Bs4-LRR	1	2122	2222	E=4.0661e-09		1
RH001F12-4-25627		6		Rpp5-TIR	-2	6820	6883	E=0.000729961		1
RH001F12-4-25627		6		N-Nt-NBS	-2	6834	6890	E=7.44023e-14		
RH001F12-4-25627		6		N-Nt-NBS	-3	6899	7177	E=2.13349e-92		
RH001F12-4-25627		6		N-Nt-NBS	-1	7268	7552	E=7.57277e-97		
RH001F12-4-25627		6		Bs4-LRR	-2	7653	7696	E=7.29178e-09		
RH001F12-4-25627		6		N-Nt-LRR	-1	7728	7767	E=2.83543e-06		
RH001F12-4-25627		6		N-Nt-LRR	-3	7784	8000	E=1.42624e-45		
RH001F12-6-13485		6		Rpp5-TIR	-1	435	495	E=0.00289202		1
RH001F12-6-13485		6		N-Nt-NBS	-1	449	788	E=2.9667e-106		
RH001F12-6-13485		6		Bs4-LRR	-1	890	934	E=9.92331e-11		
RH001F12-6-13485		6		Y-1-LRR	-2	963	1294	E=1.38702e-78		
RH001F12-6-13485		6		N-Nt-CNL	-2	1236	1372	E=4.33655e-42		
RH001F12-7-3365		6		N-Nt-CNL	2	128	232	E=8.01328e-25		1
Vic-TNL										
RH158K09-1-3950	AC238299	6	34-57	N-Nt-CNL	3	7	149	E=1.58341e-06	potato physical map	1
RH158K09-13-2275		6	34-57	Gro1-4-NBS	1	1	238	E=1.13568e-41		1
RH158K09-18-2775		6	34-57	Gro1-4-TIR	3	438	587	E=1.05116e-25		1
RH158K09-2-1327		6	34-57	Gro1-4-TIR	3	38	184	E=2.38929e-42		1
RH158K09-21-3991		6	34-57	Bs4-NBS	2	891	1241	E=1.62009e-65		1
RH158K09-22-2983		6	34-57	Y-1-LRR	1	1	320	E=8.05792e-24		1
RH158K09-22-2983		6	34-57	N-Nt-CNL	1	283	420	E=1.3073e-05		
RH158K09-23-2985		6	34-57	Gro1-4-TIR	1	505	622	E=5.79604e-36		1
RH158K09-3-1429		6	34-57	Gro1-4-TIR	2	374	443	E=2.03678e-17		1
RH158K09-9-1229		6	34-57	Bs4-NBS	1	1	255	E=2.88368e-62		1
RH159P03-13-3450	AC238304	6	34-57	Bs4-NBS	-2	812	1108	E=1.33565e-69	potato physical map	1
RH159P03-18-2003		6	34-57	Bs4-TIR	3	194	331	E=4.6617e-24		1
RH159P03-4-1356		6	34-57	Bs4-NBS	-1	1	220	E=2.23228e-53		1
RH172C14-1-28079	AC238344	6	34-57	Gro1-4-TIR	1	3065	3169	E=7.64215e-32	potato physical map	1
RH172C14-1-28079		6	34-57	Bs4-NBS	2	3879	4214	E=8.37323e-69		
RH172C14-1-28079		6	34-57	Y-1-LRR	1	7478	7895	E=1.35517e-43		
RH172C14-2-30612		6	34-57	N-Nt-NBS	3	480	823	E=2.43976e-61		1
RH172C14-2-30612		6	34-57	Gro1-4-TIR	3	2983	3095	E=1.09277e-35		1
RH172C14-2-30612		6	34-57	Bs4-NBS	2	5233	5562	E=5.40695e-81		
RH172C14-2-30612		6	34-57	Gro1-4-NBS	1	6045	6143	E=3.0453e-06		
RH172C14-2-30612		6	34-57	Gro1-4-LRR	2	6097	6500	E=8.04657e-53		
RH172C14-2-30612		6	34-57	N-Nt-CNL	2	6463	6605	E=5.53687e-05		
RH172C14-4-42849		6	34-57	Gro1-4-TIR	1	3895	4034	E=2.83798e-24		1
RH172C14-4-42849		6	34-57	Gro1-4-TIR	-1	7985	8081	E=5.57051e-29		

	RH172C14-4-42849		6	34-57	Bs4-NBS	-2	8318	8639	E=2.27893e-68		
	RH172C14-4-42849		6	34-57	N-Nt-NBS	2	9215	9563	E=5.21012e-63		
	RH172C14-4-42849		6	34-57	Gro1-4-TIR	3	9734	9850	E=7.95848e-36		1
	RH172C14-4-42849		6	34-57	Bs4-NBS	1	10505	10834	E=1.21605e-76		
	RH172C14-4-42849		6	34-57	Bs4-LRR	3	12316	12369	E=1.01866e-06		
	RH172C14-4-42849		6	34-57	Gro1-4-LRR	2	12414	12817	E=2.40541e-45		
	RH172C14-4-42849		6	34-57	N-Nt-CNL	2	12778	12915	E=3.06098e-06		
	RH172C14-4-42849		6	34-57	Bs4-NBS	3	13265	13378	E=2.89476e-20		1
	RH172C14-5-3810		6	34-57	Gro1-4-TIR	3	538	665	E=1.01754e-22		1
	RH186H09-3-2733	AC238372	6	34-57	Bs4-NBS	3	481	806	E=6.21511e-61	BACend tool/ potato physical map	1
	RH186H09-4-13312		6	34-57	N-Nt-LRR	3	2227	2502	E=2.56379e-08		1
	RH186H09-4-13312		6	34-57	Bs4-LRR	3	2556	2681	E=1.09842e-05		
	RH186H09-5-39315		6	34-57	Bs4-NBS	3	3414	3739	E=3.61127e-63		1
	RH186H09-5-39315		6	34-57	Gro1-4-TIR	3	4373	4492	E=1.43916e-35		1
	RH186H09-5-39315		6	34-57	Gro1-4-TIR	1	4557	4583	E=0.0451938		
	RH186H09-5-39315		6	34-57	Bs4-NBS	2	6007	6360	E=1.40137e-76		
	RH186H09-5-39315		6	34-57	Bs4-LRR	1	6933	6982	E=5.05558e-06		
	RH186H09-5-39315		6	34-57	Gro1-4-LRR	2	7044	7449	E=1.46686e-53		
Vid-CNL	RH123P09-1-130082	AC238222	6	46	Rx1-CC	2	7716	7878	E=3.49462e-31	NBS profiling 5A6T21/9M2	1
	RH123P09-1-130082		6	46	Gpa2-NBS	2	7849	8222	E=1.78761e-141		
	RH123P09-1-130082		6	46	Rx1-LRR	3	8185	8618	E=4.56829e-98		
	RH123P09-1-130082		6	46	Gpa2-CC	2	9166	9270	E=4.6677e-27		1
	RH123P09-1-130082		6	46	R1-LRR	2	11038	11266	E=5.05743e-27		
	RH123P09-1-130082		6	46	Rx1-CC	1	13235	13279	E=3.25971e-12		1
	RH123P09-1-130082		6	46	Dm3-NBS	2	13463	13777	E=2.4528e-13		
	RH123P09-1-130082		6	46	Rx1-LRR	2	13767	13941	E=3.38463e-90		
	RH123P09-1-130082		6	46	Gpa2-LRR	1	13815	14066	E=8.14778e-65		
	RH123P09-1-130082		6	46	Y-1-LRR	-2	25788	26001	E=2.66866e-08		
	RH123P09-1-130082		6	46	Gpa2-NBS	1	26176	26544	E=9.54829e-89		1
	RH123P09-1-130082		6	46	R1-LRR	1	26440	26923	E=1.02134e-48		
VIIa-TNL	RH142A12-6-47481	AC240025	7	31-39	N-Nt-TIR	-1	9864	9885	E=7.28264e-06	RGH-SSR36	1
	RH142A12-6-47481		7	31-39	Gro1-4-TIR	-2	9917	9958	E=4.74176e-09		
	RH142A12-6-47481		7	31-39	Gro1-4-TIR	-1	10092	10135	E=4.03723e-07		
	RH142A12-6-47481		7	31-39	N-Nt-NBS	-1	10097	10201	E=1.12111e-09		
	RH142A12-6-47481		7	31-39	Gro1-4-NBS	-3	12846	13228	E=0.0		
	RH142A12-6-47481		7	31-39	Gro1-4-LRR	-3	13236	13519	E=1.92679e-62		
	RH142A12-6-47481		7	31-39	N-Nt-CNL	-3	13372	13406	E=0.00201862		
	RH076N20-16-18297	AC239996	7	31-39	Gro1-4-LRR	3	847	1007	E=7.18024e-43	potato physical map	1
	RH076N20-20-8779		7	31-39	N-Nt-TIR	3	1344	1365	E=7.28264e-06		1
	RH076N20-20-8779		7	31-39	Gro1-4-TIR	1	1360	1401	E=4.0466e-09		1
	RH076N20-20-8779		7	31-39	Gro1-4-TIR	3	1572	1615	E=3.65258e-17		
	RH076N20-20-8779		7	31-39	N-Nt-NBS	3	1577	1681	E=1.12111e-09		
	RH076N20-28-8599		7	31-39	Gro1-4-TIR	-3	216	381	E=2.49655e-92		1
	RH076N20-28-8599		7	31-39	Gro1-4-NBS	-3	544	987	E=0.0		
	RH076N20-28-8599		7	31-39	Gro1-4-LRR	-3	988	1525	E=2.9068e-169		
	RH076N20-28-8599		7	31-39	WRR4-exon4	-3	1078	1343	E=1.98183e-13		
	RH076N20-28-8599		7	31-39	N-Nt-CNL	-3	1395	1429	E=0.00820026		
	RH076N20-5-6261		7	31-39	Gro1-4-LRR	-2	1	145	E=1.94418e-31		1
	RH076N20-5-6261		7	31-39	Gro1-4-LRR	-3	1661	1874	E=3.04354e-68		
	RH076N20-6-4434		7	31-39	Gro1-4-NBS	-2	617	759	E=6.62911e-57		1
	RH076N20-6-4434		7	31-39	Gro1-4-LRR	-2	760	1190	E=2.12326e-130		
	RH076N20-6-4434		7	31-39	Gro1-4-LRR	-3	1017	1223	E=1.52944e-24		
	RH076N20-9-2900		7	31-39	Gro1-4-NBS	-3	426	808	E=0.0		1
	RH076N20-9-2900		7	31-39	Gro1-4-LRR	-3	816	887	E=4.16265e-24		
	RH190I20-1-107191	AC240059	7	36	Bs4-TIR	3	3519	3666	E=8.57868e-50	BACend tool	1
	RH190I20-1-107191		7	36	Gro1-4-NBS	3	3853	4020	E=8.49488e-65		
	RH190I20-1-107191		7	36	Gro1-4-NBS	2	3990	4189	E=1.32224e-92		
	RH190I20-1-107191		7	36	Gro1-4-LRR	3	5078	5420	E=5.39944e-134		
	RH190I20-1-107191		7	36	Gro1-4-LRR	2	5366	5543	E=8.03077e-31		
	RH190I20-1-107191		7	36	Gro1-4-TIR	3	7291	7456	E=1.18736e-94		1
	RH190I20-1-107191		7	36	Gro1-4-TIR	1	8672	8715	E=1.8587e-16		
	RH190I20-1-107191		7	36	Gro1-4-NBS	1	8716	9159	E=0.0		
	RH190I20-1-107191		7	36	Gro1-4-LRR	1	9160	9506	E=2.78094e-149		
	RH190I20-1-107191		7	36	N-Nt-CNL	3	9619	9653	E=0.00107068		
	RH195I15-1-9781	AC240062	7	36	Gro1-4-LRR	3	1418	1550	E=1.0876e-20	potato physical map	1
	RH195I15-9-46623		7	36	Gro1-4-TIR	-2	1018	1177	E=1.4793e-84		1
	RH195I15-9-46623		7	36	Gro1-4-NBS	-2	1399	1841	E=0.0		
	RH195I15-9-46623		7	36	P2-LRR	-2	1840	1971	E=1.46442e-08		
	RH195I15-9-46623		7	36	Gro1-4-LRR	-1	1947	2117	E=9.57365e-58		
	RH195I15-9-46623		7	36	Gro1-4-LRR	-3	2101	2278	E=6.95664e-37		
	RH195I15-9-46623		7	36	Gro1-4-TIR	-3	7105	7270	E=2.77935e-96		1
	RH195I15-9-46623		7	36	Gro1-4-NBS	-3	9858	10178	E=0.0		
	RH195I15-9-46623		7	36	Gro1-4-LRR	-2	10271	10820	E=0.0		
VIIb-CNL	RH149L10-3-61769	AC232101	7	61	Rps5-NBS	-3	14710	15015	E=3.56267e-38	BACend tool	1
	RH149L10-3-61769		7	61	Dm3-LRR	-3	15079	15340	E=8.9187e-06		
	RH149L10-3-61769		7	61	PM3b-LRR	-2	15738	15803	E=0.0312342		
	RH149L10-3-61769		7	61	Dm3-LRR	-2	15966	16110	E=7.73702e-07		
	RH149L10-3-61769		7	61	Dm3-LRR	-1	16499	16601	E=2.75022e-06		
VIIc-TNL	RH202J02-10-16214	AC240070	7	68-71	Y-1-NBS	1	37	76	E=0.00610877	RGH-SSR50	1
	RH202J02-10-16214		7	68-71	Bs4-LRR	2	84	108	E=0.000807136		
	RH202J02-10-16214		7	68-71	N-Nt-LRR	3	246	494	E=1.09038e-79		
	RH202J02-10-16214		7	68-71	N-Nt-CNL	1	504	604	E=8.14104e-28		
	RH202J02-10-16214		7	68-71	Bs4-TIR	2	1182	1230	E=4.9181e-12		1
	RH202J02-10-16214		7	68-71	Y-1-TIR	1	1204	1307	E=5.92321e-42		
	RH202J02-11-15710		7	68-71	Y-1-TIR	-3	4588	4734	E=1.75952e-27		1
	RH202J02-11-15710		7	68-71	Bs4-NBS	-2	4888	4975	E=8.31623e-35		
	RH160G21-2-24541	AC240041	7		Bs4-TIR	1	2405	2562	E=1.70576e-67	RGH-SSR42 (SH07B066-073)	1
	RH160G21-2-24541		7		Y-1-NBS	2	2653	2995	E=7.54293e-139		
	RH160G21-2-24541		7		Gro1-4-NBS	1	3141	3226	E=4.39613e-06		
	RH160G21-2-24541		7		Bs4-LRR	1	3170	3224	E=8.38112e-18		
	RH160G21-2-24541		7		N-Nt-LRR	2	3747	4050	E=4.26672e-93		
	RH160G21-2-24541		7		N-Nt-CNL	2	4172	4326	E=4.11285e-52		
VIIId-CNL	RH202J02-2-7875		7	68-71	Gpa2-NBS	2	481	809	E=7.20449e-82		1
	RH202J02-2-7875		7	68-71	Bs2-LRR	2	873	1182	E=5.92147e-44		
	RH202J02-9-8907		7	68-71	Gpa2-NBS	3	1958	2299	E=4.39213e-91		1
	RH202J02-9-8907		7	68-71	Bs2-LRR	3	2348	2661	E=4.42825e-39		
VIIIa-TNL	RH031D17-11-9000		8	10-11	Bs4-TIR	-2	565	725	E=6.10173e-74	RGH-SSR7	1
	RH031D17-11-9000		8	10-11	Bs4-NBS	-1	768	1143	E=3.66496e-156		

	RH031D17-11-9000		8	10-11	Y-1-NBS	-3	1186	1251	E=3.73062e-06		
	RH031D17-11-9000		8	10-11	Y-1-LRR	-1	1478	1681	E=1.14948e-64		
	RH031D17-11-9000		8	10-11	N-Nt-LRR	-3	1688	1833	E=1.07061e-27		
	RH031D17-11-9000		8	10-11	N-Nt-CNL	-3	1850	2001	E=1.98164e-38		
VIIIb-CNL	RH031D17-1-3056	AC237980	8	10-11	Gpa2-CC	-2	899	972	E=0.00101245		1
	RH031D17-13-30526		8	10-11	Bs2-firsthalf	-1	112	255	E=3.23925e-35		1
	RH031D17-13-30526		8	10-11	Gpa2-CC	-1	1611	1714	E=0.00828958		
	RH031D17-14-30526		8	10-11	Rp1D-NBS	-1	1773	1819	E=0.000796947		
	RH031D17-13-30526		8	10-11	Tm2-2-LRR	-1	3583	3668	E=1.12491e-05		
	RH031D17-13-30526		8	10-11	Gpa2-CC	-2	5681	5804	E=0.000788251		1
	RH031D17-13-30526		8	10-11	Gpa2-NBS	-2	5801	6142	E=5.46727e-84		
	RH031D17-13-30526		8	10-11	Bs2-LRR	-2	6131	6516	E=2.4828e-49		
	RH031D17-15-9718		8	10-11	Bs2-firsthalf	-1	158	545	E=8.52875e-63		1
	RH031D17-15-9718		8	10-11	Bs2-LRR	-1	1692	2047	E=3.55433e-49		
	RH031D17-2-5106		8	10-11	Bs2-firsthalf	-1	158	545	E=4.12814e-62		1
	RH031D17-2-5106		8	10-11	R1-LRR	-1	1560	1618	E=3.40811e-07		
	RH031D17-2-22042		8	10-11	Bs2-firsthalf	-2	1402	1548	E=3.6914e-16		1
	RH031D17-6-22042		8	10-11	Rx1-NBS	-1	1563	1786	E=5.90422e-61		
	RH031D17-6-22042		8	10-11	R1-LRR	-1	1692	2080	E=6.9964e-30		
	RH031D17-6-22042		8	10-11	Bs2-LRR	-1	3914	4265	E=4.96829e-45		
	RH031D17-6-22042		8	10-11	Rps5-NBS	-2	4297	4372	E=0.000107307		
	RH031D17-6-22042		8	10-11	Rx1-CC	-2	4889	5056	E=7.84411e-05		1
	RH031D17-6-22042		8	10-11	Gpa2-NBS	-3	4944	5186	E=1.2583e-57		
	RH031D17-6-22042		8	10-11	R1-LRR	-3	5080	5313	E=4.97374e-27		
	RH031D17-6-22042		8	10-11	Bs2-LRR	-2	5473	5655	E=5.60499e-32		
	RH011D17-2-30147	AC239966	8	10-11	Rx1-CC	3	3369	3536	E=1.34874e-34	potato physical map	1
	RH011D17-2-30147		8	10-11	Gpa2-NBS	3	3510	3864	E=1.2143e-151		
	RH011D17-2-30147		8	10-11	Rx1-LRR	3	3848	4236	E=2.79489e-66		
	RH023L12-6-15001	AC239971	8	10-11	Rx1-CC	2	1263	1430	E=1.34874e-34	potato physical map	1
	RH023L12-6-15001		8	10-11	Gpa2-NBS	2	1404	1758	E=2.96522e-151		
	RH023L12-6-15001		8	10-11	Gpa2-LRR	2	1808	2143	E=1.57418e-66		
VIIIc-CNL	RH204B22-12-1530	AC240072	8	20	Rpi-blb2-CC	-3	1	389	E=3.77651e-133	potato physical map	1
	RH204B22-12-1530		8	20	Rpi-blb2-NBS	-3	390	492	E=1.0556e-44		
	RH204B22-2-1993		8	20	Rpi-blb2-LRR	1	1	173	E=4.23794e-54		1
	RH204B22-2-1993		8	20	CaMi-LRR	3	153	215	E=3.76419e-18		
	RH204B22-2-1993		8	20	Rpi-blb2-LRR	2	205	303	E=5.90366e-33		
	RH204B22-37-1872		8	20	Mi-1-CC	-3	302	582	E=7.39272e-120		1
	RH129B02-10-16431	AC240016	8	21-22	Rpi-blb2-CC	3	4699	5000	E=9.58259e-87	potato physical map	1
	RH129B02-10-16431		8	21-22	Rpi-blb2-CC	2	4999	5031	E=1.36891e-07		
	RH129B02-10-16431		8	21-22	Rpi-blb2-NBS	3	5114	5208	E=9.33312e-38		
	RH129B02-11-15577		8	21-22	Rpi-blb2-NBS	-1	1	120	E=6.75439e-31		1
	RH129B02-11-15577		8	21-22	Rpi-blb2-LRR	-1	121	377	E=3.56276e-77		
	RH129B02-11-15577		8	21-22	Rpi-blb2-LRR	-3	349	446	E=2.03024e-31		
IXa-CNL	RH050N09-2-83184	AC238036	9	19-23	Rx1-LRR	2	1788	1990	E=2.02736e-51	NBS blast	1
	RH050N09-2-83184		9	19-23	Rx1-NBS	1	5202	5224	E=0.00290541		1
	RH050N09-2-83184		9	19-23	Gpa2-CC	3	5328	5394	E=1.33988e-15		1
	RH050N09-2-83184		9	19-23	Rx1-NBS	2	5402	5446	E=9.49541e-05		
	RH050N09-2-83184		9	19-23	Rx1-CC	-3	21551	21715	E=2.18889e-33		1
	RH050N09-2-83184		9	19-23	Gpa2-NBS	-3	21687	22046	E=3.68145e-153		
	RH050N09-2-83184		9	19-23	R1-LRR	-3	21932	22049	E=8.16088e-17		
	RH050N09-2-83184		9	19-23	Gpa2-LRR	-1	22434	22662	E=5.96495e-47		
	RH050N09-2-83184		9	19-23	Gpa2-LRR	-2	22612	22739	E=1.6527e-42		
IXb-CNL	RH170E13-14-8367	AC240047	9	31-32	R3a-CC	-3	2005	2076	E=8.31107e-07	RGH-CAPS13	1
	RH170E13-14-8367		9	31-32	R3a-NBS	-3	2077	2122	E=4.3832e-09		
	RH170E13-16-3970		9	31-32	R3a-LRR	-3	682	769	E=3.3878e-27		1
	RH170E13-16-3970		9	31-32	R3a-LRR	-2	766	985	E=3.02705e-70		
	RH170E13-9-6696		9	31-32	R3a-CC	-1	307	421	E=8.6395e-46		1
	RH170E13-9-6696		9	31-32	R3a-NBS	-3	397	737	E=1.46878e-154		
	RH170E13-9-6696		9	31-32	R3a-LRR	-3	738	825	E=1.9679e-30		
	RH170E13-9-6696		9	31-32	I2-LRR	-1	808	1144	E=1.3324e-138		
IXc-CNL	RH053N17-6-39147	AC239983	9	34	Rpi-blb2-CC	-3	478	771	E=8.27553e-46	RGH-SSR13	1
	RH053N17-6-39147		9	34	Rpi-blb2-CC	-2	698	919	E=4.76437e-51		
	RH053N17-6-39147		9	34	Rpi-blb2-NBS	-1	937	1222	E=4.55607e-94		
	RH053N17-6-39147		9	34	Mi-1-LRR	-2	1261	1440	E=7.33179e-34		
	RH053N17-6-39147		9	34	CaMi-LRR	-3	1450	1573	E=2.24261e-20		
	RH068C04-11-11046	AC239989	9		Rpi-blb1-NBS	1	82	284	E=2.33902e-48	marker blast (cLPT-4-C24_210)	1
	RH068C04-11-11046		9		HRT-DomainF-LRR	3	271	353	E=0.00300015		
	RH068C04-3-7251		9		Rpi-blb1-CC	1	744	832	E=2.15333e-07		1
	RH068C04-5-38484		9		Rpi-blb1-CC	-3	399	605	E=2.09888e-09		1
	RH068C04-5-38484		9		Rpi-blb1-NBS	-3	617	935	E=6.26576e-74		
	RH068C04-5-38484		9		I2-LRR	-3	971	1349	E=5.56536e-42		
	RH122G20-12-1959	AC240010	9		I2-LRR	2	52	430	E=2.37757e-40	potato physical map	1
	RH172G12-17-994	AC240048	9		Rpi-blb1-CC	-3	14	220	E=1.18089e-07	potato physical map	1
	RH172G12-17-994		9		I2-NBS	-3	197	287	E=1.40059e-14		
	RH186C17-1-102618	AC240057	9		Rpi-blb2-CC	2	22676	23194	E=3.55217e-114	marker blast (TG254)	1
	RH186C17-1-102618		9		Rpi-blb2-NBS	2	23196	23547	E=3.49836e-113		
	RH186C17-1-102618		9		Mi-1-LRR	2	23552	23888	E=4.25738e-67		
	RH154J09-3-57060	AC240037	9		Rpi-blb2-CC	1	3286	3804	E=3.18703e-114	potato physical map	1
	RH154J09-3-57060		9		Rpi-blb2-NBS	1	3806	4157	E=1.0264e-112		
	RH154J09-3-57060		9		CaMi-LRR	1	4162	4498	E=8.54803e-67		
IXd-CNL	RH002E09-3-95796	AC237905	9	38	Tm2-2-NBS	-2	3225	3274	E=1.70927e-07	RGH-CAPS2	1
	RH002E09-3-95796		9	38	Tm2-2-NBS	-1	3599	3684	E=3.67646e-13		
	RH002E09-3-95796		9	38	Tm2-NBS	-3	3701	3748	E=3.61352e-15		
	RH002E09-3-95796		9	38	Tm2-LRR	-2	3752	3918	E=1.00279e-56		
IXe-CNL	RH140F06-3-6613	AC240023	9	41-50	Sw-5-NBS	3	1402	1666	E=3.87659e-58	RGH-SSR34	1
	RH140F06-8-3264		9	41-50	Sw-5-NBS	-1	449	626	E=2.24155e-48		1
	RH140F06-8-3264		9	41-50	Sw-5-LRR	-1	626	864	E=1.06819e-17		
	RH195J15-1-9671	AC240063	9	41-50	Sw-5-NBS	1	2	52	E=1.31611e-14	RGH-SSR49	1
	RH195J15-1-9671		9	41-50	Sw-5-LRR	3	92	181	E=2.74631e-12		
	RH195J15-1-9671		9	41-50	Sw-5-LRR	1	203	287	E=4.35064e-08		
	RH195J15-3-15151		9	41-50	Sw-5-NBS	-1	3887	4045	E=3.62838e-56		1
	RH195J15-3-15151		9	41-50	Sw-5-NBS	-3	4064	4128	E=5.25492e-16		
	RH195J15-3-15151		9	41-50	Sw-5-LRR	-3	4127	4360	E=6.76047e-13		
	RH195J15-7-10111		9	41-50	Sw-5-NBS	-1	1669	1738	E=5.89578e-22		1
	RH195J15-7-10111		9	41-50	Sw-5-NBS	-3	2718	2798	E=9.0675e-05		
	RH195J15-7-10111		9	41-50	Prf-NBS	-1	2779	2870	E=5.68171e-12		
	RH195J15-7-10111		9	41-50	Sw-5-LRR	-3	2873	2962	E=2.72349e-12		

	RH195J15-7-10111		9	41-50	Sw-5-LRR	-1	3021	3105	E=5.31522e-08			
IXf-CNL	RH058D13-1-26272	AC237842	9	84	Sw-5-CC	3	1381	1775	E=3.01914e-130	BACend tool	1	
	RH058D13-1-26272		9	84	Rpi-blb2-CC	2	1815	2351	E=2.24596e-26			
	RH058D13-1-26272		9	84	R1-NBS	2	2357	2559	E=2.22461e-42			
	RH058D13-1-26272		9	84	Sw-5-NBS	1	2511	2627	E=3.23679e-47			
	RH058D13-1-26272		9	84	Sw-5-NBS	3	2663	2713	E=6.21645e-12			
	RH058D13-1-26272		9	84	Sw-5-LRR	3	2714	2793	E=2.78929e-16			
	RH058D13-1-26272		9	84	Hero-LRR	2	2847	3043	E=3.66152e-14			
	RH058D13-1-26272		9	84	Sw-5-CC	2	4345	4879	E=0.0		1	
	RH058D13-1-26272		9	84	Sw-5-NBS	2	4880	5257	E=0.0			
	RH058D13-1-26272		9	84	Sw-5-LRR	2	5258	5596	E=5.0153e-122			
	RH058D13-1-26272		9	84	Sw-5-LRR	1	6890	7061	E=7.93283e-37			
	RH058D13-2-22867		9	84	Sw-5-CC	-2	1532	2071	E=0.0		1	
	RH058D13-2-22867		9	84	Sw-5-NBS	-2	2073	2455	E=3.06727e-175			
	RH058D13-2-22867		9	84	Sw-5-LRR	-2	2500	2821	E=7.60552e-96			
	RH058D13-4-29121		9	84	Sw-5-LRR	3	445	630	E=1.37223e-74		1	
	RH058D13-4-29121		9	84	Hero-LRR	2	2125	2261	E=4.90188e-15			
	RH058D13-4-29121		9	84	Sw-5-CC	1	2971	3478	E=0.0		1	
	RH058D13-4-29121		9	84	Sw-5-NBS	1	3479	3855	E=0.0			
	RH058D13-4-29121		9	84	Sw-5-LRR	1	3856	4194	E=1.34164e-123			
	RH058D13-4-29121		9	84	Sw-5-CC	2	5624	6160	E=0.0		1	
	RH058D13-4-29121		9	84	Sw-5-NBS	2	6161	6538	E=0.0			
	RH058D13-4-29121		9	84	Sw-5-LRR	2	6539	6865	E=1.30733e-126			
	RH058D13-5-7526		9	84	Sw-5-CC	-3	1497	2041	E=0.0		1	
	RH058D13-5-7526		9	84	Sw-5-NBS	-3	2043	2398	E=3.4742e-177			
	RH100A18-10-21272		AC238190	9	84	Sw-5-CC	-2	1305	1857	E=0.0	RGH-SSR28 (SH)	1
	RH100A18-10-21272			9	84	Sw-5-NBS	-3	1836	2193	E=1.31417e-163		
	RH100A18-10-21272			9	84	Sw-5-LRR	-3	2232	2558	E=2.51008e-92		
	RH100A18-4-16632			9	84	Sw-5-CC	1	387	921	E=0.0		1
	RH100A18-4-16632			9	84	Sw-5-NBS	1	922	1299	E=0.0		
	RH100A18-4-16632			9	84	Sw-5-LRR	1	1300	1638	E=8.55233e-123		
	RH100A18-4-16632			9	84	Sw-5-LRR	2	1866	2088	E=4.16294e-45		
	RH100A18-4-16632			9	84	Sw-5-CC	3	2957	3493	E=0.0		1
	RH100A18-4-16632			9	84	Sw-5-NBS	3	3494	3871	E=0.0		
	RH100A18-4-16632			9	84	Sw-5-LRR	3	3872	4198	E=2.95973e-128		
	RH100A18-5-28283			9	84	Sw-5-CC	1	3288	3832	E=0.0		1
	RH100A18-5-28283			9	84	Sw-5-NBS	1	3833	4210	E=0.0		
	RH100A18-5-28283			9	84	Sw-5-LRR	1	4211	4548	E=2.68335e-92		
	RH100A18-5-28283			9	84	Sw-5-CC	3	4747	5020	E=3.17915e-67		1
	RH100A18-5-28283			9	84	Sw-5-NBS	3	5429	5620	E=8.22584e-82		
	RH100A18-5-28283			9	84	Sw-5-LRR	3	5621	5962	E=3.94795e-84		
	RH100A18-6-13119			9	84	Sw-5-CC	-2	1447	1713	E=5.61009e-65		1
	RH100A18-6-13119			9	84	Sw-5-CC	-1	1694	1860	E=1.09519e-59		
	RH100A18-6-13119			9	84	Sw-5-CC	-3	2213	2734	E=4.5715e-138		
	RH100A18-6-13119			9	84	Sw-5-NBS	-1	2769	3084	E=4.2977e-134		
	RH100A18-6-13119			9	84	Sw-5-LRR	-1	3085	3311	E=1.07832e-42		
RH100A18-6-13119	9	84		Sw-5-LRR	-3	3282	3335	E=8.68585e-12				
RH100A18-8-8431	9	84		Nrc1-NBS	1	548	603	E=2.46675e-08		1		
RH100A18-8-8431	9	84		Sw-5-CC	-2	591	1149	E=0.0		1		
RH100A18-8-8431	9	84		Sw-5-NBS	-2	1151	1520	E=1.44794e-174				
RH100A18-8-8431	9	84		Sw-5-LRR	-2	1521	1847	E=1.7952e-97				
RH100A18-8-8431	9	84		Sw-5-CC	-1	2220	2255	E=0.000173169		1		
RH152G12-1-24899	AC232105	9		84	Nrc1-NBS	1	1670	1707	E=1.93828e-05	BACend tool	1	
RH152G12-1-24899		9		84	Sw-5-CC	-3	3737	3758	E=0.0144212		1	
RH152G12-1-24899		9		84	Sw-5-CC	-2	4691	5220	E=0.0			
RH152G12-1-24899		9		84	Sw-5-NBS	-2	5222	5590	E=5.59474e-174			
RH152G12-1-24899		9		84	Sw-5-LRR	-2	5591	5917	E=2.2488e-97			
RH152G12-2-27347		9		84	Nrc1-NBS	2	2391	2443	E=0.000105443		1	
RH152G12-2-27347		9		84	Sw-5-CC	-2	2941	3485	E=0.0		1	
RH152G12-2-27347		9		84	Sw-5-NBS	-2	3486	3863	E=0.0			
RH152G12-2-27347		9		84	Sw-5-LRR	-2	3864	4201	E=2.44803e-92			
RH152G12-2-27347		9		84	Sw-5-CC	-1	4443	4716	E=2.06006e-67		1	
RH152G12-2-27347		9		84	Sw-5-NBS	-1	5125	5316	E=7.63075e-82			
RH152G12-2-27347		9		84	Sw-5-LRR	-1	5317	5658	E=3.91515e-84			
RH199H05-1-38310		AC240065		9	84	Rpi-blb2-CC	2	1155	1697	E=4.23692e-24	potato physical map	1
RH199H05-1-38310				9	84	Gpa2-NBS	2	1680	2028	E=8.32412e-73		
RH199H05-1-38310				9	84	R1-LRR	2	1920	2377	E=9.98983e-39		
RH199H05-1-38310	9			84	Sw-5-CC	1	4297	4810	E=0.0		1	
RH199H05-1-38310	9			84	Sw-5-NBS	1	4811	4943	E=6.93985e-64			
RH199H05-1-38310	9			84	Tm2-LRR	3	5024	5076	E=3.55675e-06			
RH199H05-1-38310	9		84	Sw-5-LRR	3	5119	5447	E=3.35336e-129				
RH199H05-1-38310	9		84	Sw-5-CC	3	6165	6408	E=2.69834e-57		1		
RH199H05-1-38310	9		84	Rpi-blb2-CC	1	6419	6755	E=7.35297e-22				
RH199H05-1-38310	9		84	Sw-5-NBS	3	6735	7086	E=1.08935e-177				
RH199H05-1-38310	9		84	R1-LRR	3	6945	7400	E=2.47473e-46				
RH199H05-1-38310	9		84	Sw-5-CC	2	8170	8704	E=0.0		1		
RH199H05-1-38310	9		84	Sw-5-NBS	2	8705	9082	E=0.0				
RH199H05-1-38310	9		84	Sw-5-LRR	2	9083	9414	E=5.43751e-131				
RH199H05-2-8958	9		84	Sw-5-LRR	3	394	540	E=1.01567e-47		1		
RH199H05-2-8958	9		84	Sw-5-CC	2	1269	1776	E=0.0		1		
RH199H05-2-8958	9		84	Sw-5-NBS	2	1777	2153	E=0.0				
RH199H05-2-8958	9		84	Sw-5-LRR	2	2154	2492	E=3.0655e-122				
RH199H05-3-80548	9		84	CaMi-CC	2	11404	11443	E=0.00209742		1		
RH199H05-3-80548	9		84	Sw-5-NBS	2	11418	11764	E=3.59488e-88				
RH199H05-3-80548	9		84	R1-LRR	2	11646	12158	E=2.17363e-33				
RH199H05-3-80548	9		84	CaMi-CC	3	14093	14144	E=0.0188236		1		
RH199H05-3-80548	9		84	Sw-5-NBS	3	14119	14448	E=3.53846e-85				
RH199H05-3-80548	9		84	R1-LRR	3	14347	14840	E=2.65632e-32				
RH199H05-3-80548	9		84	Sw-5-LRR	1	15556	15619	E=0.0384551				
RH199H05-3-80548	9		84	Rcy1-DomainC	2	16735	16825	E=5.54556e-10				
RH199H05-3-80548	9		84	Tm2-2-LRR	2	18527	18575	E=0.00453437				
RH199H05-3-80548	9	84	CaMi-LRR	2	18655	18998	E=3.57519e-23					
RH199H05-5-3528	9	84	Sw-5-LRR	2	3	124	E=7.90758e-48		1			
Xa-CNL	RH049J10-1-14175	AC239981	10	1	Dm3-LRR	1	776	914	E=2.68146e-07	potato physical map	1	
	RH049J10-1-14175		10	1	Dm3-NBS	3	4222	4518	E=1.021e-43		1	
	RH049J10-3-1833		10	1	Dm3-NBS	-3	24	340	E=1.42428e-46		1	
	RH049J10-4-1752		10	1	Dm3-LRR	-2	393	542	E=1.1739e-07		1	
	RH049J10-7-11434		10	1	Rps5-NBS	1	1	95	E=8.0545e-16		1	

	RH200E19-12-10660	AC240066	10	Dm3-LRR	3	74	187	E=9.45238e-07	marker blast (T1482)	1
	RH200E19-12-10660		10	Rps2-LRR	2	454	617	E=3.69325e-08		
	RH200E19-13-2620		10	Dm3-LRR	1	291	457	E=8.69571e-07		1
	RH200E19-13-2620		10	Dm3-Nterminus	1	579	739	E=2.1034e-05		1
	RH200E19-13-2620		10	Rps5-NBS	1	737	834	E=2.79797e-08		
	RH200E19-15-3965		10	Dm3-NBS	3	423	700	E=6.09877e-37		1
	RH200E19-15-3965		10	Dm3-LRR	3	749	966	E=0.00126691		
	RH033P04-1-107735	AC237833	10	P2-NBS	3	27610	27695	E=0.00329626	BACend tool	1
	RH033P04-1-107735		10	CaMi-NBS	1	27790	28026	E=0.00545783		
	RH033P04-1-107735		10	Rps2-LRR	1	28005	28331	E=1.30228e-06		
	RH033P04-1-107735		10	Dm3-NBS	1	32227	32539	E=7.87162e-49		1
	RH033P04-1-107735		10	Dm3-LRR	1	32576	32854	E=2.44773e-05		
	RH033P04-1-107735		10	Rps2-LRR	2	32949	33151	E=5.42121e-08		
	RH033P04-2-11632		10	Rps5-LRR	2	619	756	E=0.000176089		1
	RH033P04-2-11632		10	Dm3-LRR	3	799	912	E=9.45238e-07		
	RH033P04-2-11632		10	Rps2-LRR	2	1199	1362	E=3.69325e-08		
	RH033P04-3-9633		10	Dm3-NBS	1	2828	3004	E=3.25265e-18		1
	RH168B16-1-39951	AC237875	10	Dm3-NBS	-1	175	490	E=5.27387e-49	BACend tool	1
	RH168B16-1-39951		10	Dm3-LRR	-1	527	786	E=1.53227e-09		
	RH168B16-1-39951		10	Dm3-LRR	-3	2058	2193	E=3.83651e-09		
	RH168B16-1-39951		10	Rps2-LRR	-1	2576	2707	E=8.08919e-09		
Xb-CNL	RH074E19-7-1928	AC239980	10	62-63 Rps5-NBS	-3	127	308	E=2.02888e-23	RGH-SSR19	1
	RH088N19-11-14836	AC240000	10	62-63 Rps5-NBS	1	2693	2820	E=2.81814e-12	RGH-SSR24	1
	RH088N19-6-6733		10	62-63 Rps5-NBS	3	1362	1450	E=7.66786e-13		1
	RH088N19-8-7681		10	62-63 Rps5-NBS	3	924	1012	E=7.66786e-13		1
Xc-TNL	RH015F14-1-21596	AC237826	10	66 Bs4-LRR	-1	4540	4854	E=0.000159941	potato physical map/BACend tool	1
	RH015F14-1-21596		10	66 N-Nt-LRR	-1	4900	5022	E=0.0128455		
Xd-CNL	RH059J13-7-10183	AC239987	10	I2-CC	3	1262	1423	E=1.47921e-62	marker blast (T1681)	1
	RH059J13-7-10183		10	R3a-NBS	3	1424	1755	E=4.20737e-179		
	RH059J13-7-10183		10	R1-LRR	3	1675	1737	E=0.00681992		
	RH059J13-7-10183		10	I2-LRR	1	1769	2551	E=0.0		
	RH059J13-8-14843		10	R3a-LRR	3	1984	2200	E=2.01415e-65		1
	RH059J13-8-14843		10	I2-LRR	1	2196	2333	E=2.01448e-36		
	RH059J13-8-14843		10	I2-LRR	2	2349	2483	E=7.99967e-28		
	RH093C16-2-46054	AC240004	10	I2-CC	2	796	957	E=9.19355e-63	potato physical map/ BACend tool	1
	RH093C16-2-46054		10	I2-NBS	2	958	1337	E=0.0		
	RH093C16-2-46054		10	I2-LRR	2	1342	2122	E=0.0		
	RH093C16-2-46054		10	WRR4-exon4	2	1688	1861	E=0.0410873		
	RH093C16-2-46054		10	I2-LRR	3	4984	5121	E=6.16215e-36		
	RH093C16-2-46054		10	I2-LRR	1	5061	5203	E=5.68697e-25		
	RH180B13-17-7674	AC234558	10	R3a-LRR	-3	1341	1506	E=8.68677e-60	BACend tool	1
	RH180B13-17-7674		10	I2-LRR	-1	1477	1614	E=5.81255e-36		
	RH180B13-17-7674		10	I2-LRR	-2	1621	1755	E=3.03987e-27		
	RH180B13-24-10438		10	I2-CC	-1	1214	1375	E=1.47921e-62		1
	RH180B13-24-10438		10	R3a-NBS	-1	1376	1707	E=1.23406e-179		
	RH180B13-24-10438		10	I2-LRR	-2	1688	2470	E=0.0		
	RH180K14-2-37991	AC237886	10	I2-CC	1	10172	10333	E=1.47921e-62	BACend tool	1
	RH180K14-2-37991		10	R3a-NBS	1	10334	10665	E=1.96849e-180		
	RH180K14-2-37991		10	R1-LRR	1	10585	10647	E=0.00960172		
	RH180K14-2-37991		10	I2-LRR	2	10749	11531	E=0.0		
Xla-TNL	RH095B14-3-13929	AC238172	11	4 Bs4-TIR	1	1443	1519	E=3.35341e-09	potato physical map	1
	RH095B14-3-13929		11	4 Bs4-TIR	2	1997	2146	E=9.04994e-67		
	RH095B14-3-13929		11	4 N-Nt-NBS	2	2243	2593	E=5.4519e-108		
	RH095B14-3-13929		11	4 Bs4-NBS	3	2627	2785	E=2.92918e-08		
	RH095B14-3-13929		11	4 Y-1-LRR	3	3268	3679	E=2.40068e-114		
	RH095B14-3-13929		11	4 Bs4-CNL	3	3629	3789	E=1.41897e-36		
	RH095B14-5-17025		11	4 Bs4-TIR	2	2137	2166	E=8.46175e-11		1
	RH095B14-5-17025		11	4 Bs4-TIR	1	2152	2290	E=4.1035e-61		
	RH095B14-5-17025		11	4 N-Nt-NBS	1	2393	2453	E=1.14687e-17		
	RH095B14-5-17025		11	4 Bs4-NBS	2	2443	2732	E=5.35736e-84		
	RH095B14-5-17025		11	4 Bs4-LRR	3	2884	2935	E=5.209e-18		
	RH095B14-5-17025		11	4 N-Nt-LRR	2	3236	3423	E=4.8401e-61		
	RH095B14-5-17025		11	4 Y-1-LRR	1	3407	3461	E=1.69819e-13		
	RH095B14-5-17025		11	4 Y-1-LRR	3	3456	3551	E=1.00618e-34		
	RH095B14-5-17025		11	4 N-Nt-CNL	3	3497	3605	E=3.00838e-37		
	RH095B14-5-17025		11	4 Bs4-CNL	1	3628	3682	E=1.37248e-07		
	RH125M10-3-16235	AC240014	11	4 Bs4-TIR	3	3083	3238	E=1.40627e-71	potato physical map	1
	RH125M10-3-16235		11	4 Y-1-NBS	3	3286	3632	E=8.9672e-118		
	RH125M10-3-16235		11	4 Y-1-LRR	2	3964	4332	E=1.49033e-118		
	RH125M10-3-16235		11	4 Bs4-CNL	2	4285	4415	E=4.03234e-31		
	RH125M10-4-6991		11	4 Y-1-TIR	-1	1388	1467	E=1.7758e-24		1
	RH125M10-5-90000		11	4 Bs4-TIR	-2	2283	2444	E=6.30698e-75		1
	RH125M10-5-90000		11	4 Bs4-NBS	-3	2576	2944	E=4.59367e-154		
	RH125M10-5-90000		11	4 Rpp5-LRR	-3	3259	3727	E=5.62503e-21		
	RH125M10-5-90000		11	4 N-Nt-CNL	-3	3882	4057	E=6.31626e-40		
	RH125M10-5-90000		11	4 N-Nt-TIR	-1	4542	4692	E=1.49364e-60		1
	RH125M10-5-90000		11	4 Rps4-NBS	-2	4828	5083	E=1.87622e-30		
	RH125M10-5-90000		11	4 N-Nt-LRR	-1	5213	5300	E=7.63086e-16		
	RH125M10-5-90000		11	4 Rpp5-LRR	-2	5382	5543	E=2.21133e-18		
	RH125M10-5-90000		11	4 N-Nt-CNL	-1	5672	5813	E=6.31626e-40		
	RH125M10-5-90000		11	4 Bs4-TIR	-1	11388	11552	E=7.90748e-72		1
	RH125M10-5-90000		11	4 Y-1-NBS	-3	11661	12008	E=5.95624e-119		
	RH125M10-5-90000		11	4 Y-1-LRR	-3	17352	17754	E=1.19899e-120		
	RH125M10-5-90000		11	4 Bs4-CNL	-3	17698	17874	E=3.7031e-37		
	RH125M10-5-90000		11	4 Bs4-TIR	-3	20091	20249	E=6.4094e-77		1
	RH125M10-5-90000		11	4 Rpg1-b-LRR	-2	24163	24236	E=3.24822e-08		
	RH125M10-5-90000		11	4 Rps4-TIR	-2	25510	25658	E=4.31152e-19		1
	RH125M10-5-90000		11	4 Bs4-NBS	-1	25737	26105	E=1.22076e-149		
	RH125M10-5-90000		11	4 Y-1-LRR	-2	26360	26740	E=8.83337e-110		
	RH125M10-5-90000		11	4 Bs4-CNL	-2	26688	26853	E=4.02534e-37		
	RH125M10-5-90000		11	4 Rpp2-TIR	-2	27211	27355	E=1.02363e-23		1
	RH125M10-5-90000		11	4 Bs4-NBS	-2	27421	27787	E=1.1137e-149		
	RH125M10-6-10713		11	4 Bs4-TIR	2	61	221	E=6.86774e-69		1
	RH125M10-6-10713		11	4 N-Nt-NBS	1	304	587	E=3.95241e-95		
	RH125M10-6-10713		11	4 N-Nt-TIR	3	2728	2815	E=0.0484433		1
	RH056A20-1-32123	AC237841	11	5 Bs4-CNL	-3	3098	3172	E=7.39353e-12	BACend tool	1
	RH056A20-1-32123		11	5 Y-1-LRR	-1	4292	4492	E=3.41359e-51		1
	RH056A20-1-32123		11	5 Rpp2-TIR	-3	5696	5843	E=2.06314e-23		1

RH056A20-1-32123		11	5	N-Nt-NBS	-3	5960	6240	E=4.05377e-94		
RH056A20-1-32123		11	5	Bs4-LRR	-3	6427	6478	E=1.04988e-17		
RH056A20-1-32123		11	5	Y-1-LRR	-2	6647	7015	E=1.83441e-121		
RH056A20-1-32123		11	5	Bs4-TIR	-3	7778	7939	E=2.2393e-78		1
RH056A20-1-32123		11	5	Bs4-NBS	-2	7996	8333	E=3.50932e-133		
RH056A20-1-32123		11	5	Bs4-NBS	-1	8459	8497	E=4.33946e-05		
RH056A20-1-32123		11	5	Rpp5-LRR	-2	8663	9129	E=1.65082e-19		
RH056A20-1-32123		11	5	Bs4-CNL	-2	9151	9307	E=2.16719e-43		
RH101J08-2-44668	AC240007	11	5	Y-1-LRR	3	107	513	E=1.59922e-105	potato physical map	1
RH101J08-2-44668		11	5	N-Nt-CNL	3	461	626	E=9.65802e-43		
RH101J08-2-44668		11	5	Bs4-NBS	3	3375	3409	E=0.00022454		1
RH101J08-2-44668		11	5	N-Nt-CNL	2	3910	4017	E=5.39218e-10		
RH101J08-2-44668		11	5	Y-1-LRR	1	5103	5396	E=9.57822e-61		1
RH101J08-2-44668		11	5	N-Nt-CNL	1	5344	5486	E=1.00811e-38		
RH101J08-2-44668		11	5	Bs4-TIR	2	7360	7412	E=1.28423e-10		1
RH101J08-2-44668		11	5	Bs4-TIR	1	9904	10065	E=5.53e-68		
RH101J08-2-44668		11	5	Bs4-NBS	2	10169	10520	E=5.18837e-137		
RH101J08-2-44668		11	5	Gro1-4-NBS	1	10634	10739	E=1.89325e-05		
RH101J08-2-44668		11	5	Bs4-LRR	2	10886	11173	E=7.9143e-43		
RH101J08-2-44668		11	5	WRR4-exon4	2	11278	11435	E=6.99018e-11		
RH101J08-2-44668		11	5	WRR4-exon4	3	11937	12135	E=2.10346e-09		
RH101J08-2-44668		11	5	Rpp4-LRR	3	11947	12418	E=1.24208e-17		
RH101J08-7-49865		11	5	Bs4-TIR	3	3404	3564	E=3.50982e-82		1
RH101J08-7-49865		11	5	Bs4-NBS	1	3608	3653	E=3.26383e-09		
RH101J08-7-49865		11	5	Y-1-LRR	2	7129	7497	E=4.75991e-113		
RH101J08-7-49865		11	5	N-Nt-CNL	2	7444	7606	E=1.41685e-44		
RH101J08-7-49865		11	5	Bs4-TIR	2	10835	10993	E=5.12548e-71		1
RH101J08-7-49865		11	5	Bs4-NBS	2	11051	11439	E=1.72269e-141		
RH141E03-1-5702	AC240024	11	5	Bs4-TIR	-2	1069	1121	E=2.56687e-10	potato physical map	1
RH141E03-3-9790		11	5	Bs4-TIR	3	2931	3088	E=8.86155e-82		1
RH141E03-4-14300		11	5	Bs4-NBS	2	1	369	E=8.4252e-134		1
RH141E03-4-14300		11	5	N-Nt-LRR	1	349	437	E=3.39491e-18		
RH141E03-6-8445		11	5	Bs4-NBS	2	90	128	E=2.85926e-05		1
RH141E03-6-8445		11	5	Bs4-LRR	1	150	197	E=2.08405e-12		
RH141E03-6-8445		11	5	Y-1-LRR	3	330	819	E=5.38237e-92		
RH141E03-6-8445		11	5	WRR4-exon4	3	614	744	E=7.54624e-06		
RH141E03-6-8445		11	5	Bs4-CNL	3	761	917	E=3.31667e-43		
RH141E03-8-7930		11	5	Y-1-LRR	-3	666	866	E=1.14456e-50		1
RH141E03-8-7930		11	5	Bs4-TIR	-2	2083	2238	E=1.13268e-69		1
RH141E03-8-7930		11	5	Y-1-NBS	-2	2343	2501	E=2.91933e-46		
RH204G21-1-4638		11	7	Y-1-TIR	2	661	816	E=2.03742e-68		1
RH204G21-1-4638		11	7	Rpp5-TIR	1	916	969	E=2.34616e-05		
RH204G21-1-4638		11	7	Y-1-NBS	1	920	1274	E=1.2109e-117		
RH204G21-11-1971		11	7	Bs4-NBS	1	1	58	E=4.51777e-10		1
RH204G21-11-1971		11	7	N-Nt-LRR	1	251	344	E=4.6268e-15		
RH204G21-12-5111		11	7	Bs4-LRR	3	157	204	E=5.34413e-16		1
RH204G21-12-5111		11	7	Y-1-LRR	2	226	586	E=4.07506e-102		
RH204G21-12-5111		11	7	Bs4-CNL	2	541	723	E=3.71062e-30		
RH204G21-12-5111		11	7	Bs4-TIR	2	740	893	E=1.62246e-67		1
RH204G21-12-5111		11	7	Bs4-NBS	2	1056	1409	E=4.20177e-145		
RH204G21-16-5876		11	7	Y-1-NBS	1	1	291	E=5.65391e-126		1
RH204G21-16-5876		11	7	N-Nt-LRR	3	515	616	E=1.37911e-17		
RH204G21-16-5876		11	7	Y-1-LRR	1	965	1362	E=1.09822e-135		
RH204G21-16-5876		11	7	N-Nt-CNL	1	1309	1458	E=3.17549e-52		
RH204G21-16-5876		11	7	Bs4-TIR	1	1473	1630	E=1.39337e-74		1
RH204G21-16-5876		11	7	Bs4-NBS	3	1711	1827	E=7.14199e-42		
RH204G21-19-14518		11	7	N-Nt-LRR	2	1074	1357	E=2.51083e-80		1
RH204G21-19-14518		11	7	WRR4-exon4	2	1295	1484	E=4.13596e-08		
RH204G21-19-14518		11	7	N-Nt-CNL	2	2027	2176	E=9.40835e-47		
RH204G21-19-14518		11	7	N-Nt-CNL	3	2603	2637	E=9.211e-05		
RH204G21-19-14518		11	7	Y-1-TIR	3	3926	4079	E=1.047e-62		1
RH204G21-19-14518		11	7	Y-1-NBS	2	4198	4554	E=8.42855e-159		
RH204G21-22-34661		11	7	N-Nt-LRR	2	204	533	E=6.67249e-76		1
RH204G21-22-34661		11	7	N-Nt-CNL	2	613	762	E=1.02359e-43		
RH204G21-22-34661		11	7	Y-1-TIR	1	2619	2771	E=5.91083e-78		1
RH204G21-22-34661		11	7	Y-1-NBS	3	2774	3130	E=1.21637e-159		
RH204G21-22-34661		11	7	Y-1-NBS	1	3261	3306	E=3.98121e-12		
RH204G21-22-34661		11	7	Y-1-LRR	1	3307	3353	E=2.59365e-20		
RH204G21-22-34661		11	7	Y-1-LRR	3	3804	4143	E=8.07275e-104		
RH204G21-22-34661		11	7	Y-1-CNL	1	4533	4606	E=4.58276e-26		
RH204G21-9-12394		11	7	Rpp1-LRR	1	2079	2374	E=0.0498453		1
RH008P12-2-58879	AC237927	11	2-8	N-Nt-LRR	-1	1227	1359	E=2.0489e-33	RGH-SSR4	1
RH008P12-2-58879		11	2-8	Rps4-LRR	-2	1486	1666	E=6.01161e-10		
RH008P12-2-58879		11	2-8	Mla1-LRR	-3	1706	1769	E=0.000108945		
RH008P12-2-58879		11	2-8	N-Nt-CNL	-3	1808	1967	E=9.05274e-36		
RH008P12-2-58879		11	2-8	Bs4-TIR	-2	2896	3051	E=7.33755e-71		1
RH008P12-2-58879		11	2-8	Y-1-NBS	-2	3101	3447	E=9.98878e-120		
RH008P12-2-58879		11	2-8	N-Nt-LRR	-2	3885	4095	E=8.31549e-65		
RH008P12-2-58879		11	2-8	Bs4-CNL	-2	6326	6418	E=1.13868e-18		
RH008P12-2-58879		11	2-8	Bs4-TIR	-3	8951	9109	E=7.58877e-70		1
RH008P12-2-58879		11	2-8	Gro1-4-NBS	-1	11705	11785	E=1.37763e-08		
RH008P12-2-58879		11	2-8	Rpp4-LRR	-3	11964	12089	E=2.26952e-10		
RH008P12-2-58879		11	2-8	Rps4-NBS	-2	12008	12270	E=1.84303e-34		1
RH008P12-2-58879		11	2-8	Y-1-LRR	-1	12397	12543	E=6.1608e-29		
RH008P12-2-58879		11	2-8	WRR4-exon4	-1	12424	12488	E=0.0384343		
RH008P12-2-58879		11	2-8	Gro1-4-NBS	-3	12432	12513	E=1.93955e-08		1
RH008P12-2-58879		11	2-8	Y-1-TIR	-2	14559	14717	E=2.08906e-68		1
RH008P12-2-58879		11	2-8	Y-1-NBS	-1	14964	15034	E=1.73988e-18		
RH008P12-2-58879		11	2-8	N-Nt-LRR	-3	15727	16066	E=1.29102e-72		
RH008P12-2-58879		11	2-8	Bs4-CNL	-3	16197	16379	E=1.88441e-36		
RH008P12-3-55073		11	2-8	Y-1-TIR	-2	5993	6148	E=8.55008e-71		1
RH008P12-3-55073		11	2-8	Bs4-NBS	-3	6224	6598	E=9.20358e-117		
RH008P12-3-55073		11	2-8	Bs4-LRR	-3	6943	6996	E=3.86083e-15		
RH008P12-3-55073		11	2-8	N-Nt-LRR	-2	7053	7376	E=4.04103e-79		
RH008P12-3-55073		11	2-8	N-Nt-CNL	-2	7587	7762	E=3.57828e-43		
RH155M20-1-32352	AC238292	11	2-8	N-Nt-LRR	2	1453	1585	E=2.0489e-33	potato physical map/BACend tool	1
RH155M20-1-32352		11	2-8	N-Nt-LRR	1	1555	1696	E=2.60904e-34		
RH155M20-1-32352		11	2-8	Rps4-LRR	3	1720	1900	E=6.81311e-10		

RH155M20-1-32352		11	2-8	Gro1-4-LRR	1	1935	2087	E=6.17574e-16		
RH155M20-1-32352		11	2-8	Bs4-CNL	1	2043	2208	E=5.08764e-35		
RH155M20-1-32352		11	2-8	Bs4-TIR	3	3130	3285	E=5.12548e-71		
RH155M20-1-32352		11	2-8	Y-1-NBS	3	3335	3681	E=4.05657e-120		1
RH155M20-1-32352		11	2-8	N-Nt-LRR	3	4119	4329	E=1.51632e-64		
RH155M20-1-32352		11	2-8	Bs4-CNL	3	6560	6652	E=1.20716e-18		
RH155M20-1-32352		11	2-8	Bs4-TIR	1	9186	9344	E=7.71647e-70		1
RH155M20-1-32352		11	2-8	Prf-NBS	3	9414	9523	E=0.000152388		
RH155M20-2-11024		11	2-8	Bs4-TIR	2	385	545	E=1.44234e-70		1
RH155M20-2-11024		11	2-8	Rpp5-TIR	3	636	690	E=7.35863e-05		
RH155M20-2-11024		11	2-8	Bs4-NBS	3	640	1014	E=3.4109e-116		
RH155M20-2-11024		11	2-8	Bs4-LRR	3	1359	1412	E=3.86083e-15		
RH155M20-2-11024		11	2-8	N-Nt-LRR	2	1450	1773	E=4.65686e-79		
RH155M20-2-11024		11	2-8	N-Nt-CNL	2	1984	2159	E=7.90534e-43		
RH155M20-4-42573		11	2-8	Gro1-4-NBS	2	1196	1276	E=1.37763e-08		1
RH155M20-4-42573		11	2-8	Rpp4-LRR	1	1310	1435	E=1.98589e-10		
RH155M20-4-42573		11	2-8	Bs4-NBS	3	1427	1710	E=1.95759e-103		1
RH155M20-4-42573		11	2-8	Gro1-4-NBS	1	1778	1859	E=1.9558e-08		
RH155M20-4-42573		11	2-8	N-Nt-LRR	2	1888	2034	E=2.67595e-33		
RH155M20-4-42573		11	2-8	Bs4-TIR	3	3997	4161	E=3.3232e-69		1
RH155M20-4-42573		11	2-8	Rpp4-NBS	3	4227	4509	E=1.52748e-38		
RH155M20-4-42573		11	2-8	Bs4-LRR	3	4948	5001	E=3.58049e-16		
RH155M20-4-42573		11	2-8	N-Nt-LRR	1	5073	5412	E=1.42698e-72		
RH155M20-4-42573		11	2-8	Bs4-CNL	1	5543	5725	E=1.60815e-36		
RH003B10-1-39626	AC237906	11	4-5	Bs4-TIR	3	3202	3347	E=4.38295e-64	potato physical map/BACend tool	1
RH003B10-1-39626		11	4-5	Y-1-NBS	3	3447	3794	E=2.52781e-111		
RH003B10-1-39626		11	4-5	Bs4-LRR	3	4043	4107	E=2.78681e-17		
RH003B10-1-39626		11	4-5	Y-1-LRR	1	4120	4559	E=2.19587e-105		
RH003B10-1-39626		11	4-5	Y-1-LRR	2	5501	5624	E=1.18074e-29		
RH003B10-1-39626		11	4-5	Y-1-CNL	1	5723	5789	E=4.88381e-08		
RH003B10-3-42329		11	4-5	N-Nt-LRR	2	562	853	E=1.61068e-86		1
RH003B10-3-42329		11	4-5	Y-1-CNL	2	1026	1116	E=2.16522e-22		
RH003B10-3-42329		11	4-5	Bs4-TIR	1	1746	1906	E=3.70072e-72		1
RH003B10-3-42329		11	4-5	N-Nt-NBS	1	1961	2309	E=3.08841e-140		
RH003B10-3-42329		11	4-5	Gro1-4-NBS	3	2367	2457	E=8.14645e-08		
RH003B10-3-42329		11	4-5	Y-1-LRR	1	2607	2969	E=4.41556e-113		
RH003B10-3-42329		11	4-5	N-Nt-CNL	1	2920	3055	E=1.50512e-37		
RH003B10-3-42329		11	4-5	Bs4-TIR	3	3931	4092	E=1.15769e-80		1
RH003B10-3-42329		11	4-5	Bs4-NBS	1	4251	4606	E=7.72383e-146		
RH003B10-3-42329		11	4-5	Y-1-LRR	3	4830	5146	E=5.2151e-57		
RH003B10-3-42329		11	4-5	Bs4-CNL	3	5089	5220	E=2.32217e-35		
RH003B10-3-42329		11	4-5	N-Nt-CNL	3	8112	8242	E=1.17012e-42		
RH003B10-3-42329		11	4-5	Bs4-TIR	2	9133	9290	E=1.64451e-78		1
RH003B10-3-42329		11	4-5	Bs4-NBS	3	9329	9435	E=1.30573e-32		
RH003B10-3-42329		11	4-5	Bs4-NBS	2	9434	9682	E=2.37036e-105		
RH003B10-3-42329		11	4-5	Bs4-LRR	2	11707	12001	E=1.36081e-72		
RH003B10-3-42329		11	4-5	N-Nt-CNL	2	12367	12503	E=1.05864e-42		
RH025E12-1-42151	AC237966	11	4-5	Bs4-TIR	3	951	1111	E=2.07851e-76	potato physical map	1
RH025E12-1-42151		11	4-5	N-Nt-NBS	1	1225	1398	E=2.85806e-62		
RH025E12-1-42151		11	4-5	Y-1-NBS	2	1365	1608	E=1.09942e-76		
RH025E12-1-42151		11	4-5	Y-1-LRR	1	1658	1700	E=6.4606e-09		
RH025E12-1-42151		11	4-5	N-Nt-LRR	3	1682	1780	E=5.94623e-13		
RH025E12-5-33671		11	4-5	Bs4-CNL	-1	797	881	E=1.72966e-15		1
RH025E12-5-33671		11	4-5	Bs4-TIR	-2	4168	4313	E=2.56953e-64		
RH025E12-5-33671		11	4-5	N-Nt-NBS	-2	4413	4762	E=1.62458e-111		
RH025E12-5-33671		11	4-5	Bs4-LRR	-2	5009	5073	E=2.65073e-17		
RH025E12-5-33671		11	4-5	Y-1-LRR	-3	5078	5517	E=2.19587e-105		
RH025E12-5-33671		11	4-5	N-Nt-CNL	-3	5471	5619	E=1.1658e-26		
RH025E12-5-33671		11	4-5	Y-1-LRR	-1	6463	6586	E=1.5421e-29		1
RH025E12-5-33671		11	4-5	Y-1-CNL	-3	6681	6747	E=4.80298e-08		
RH025E12-6-5856		11	4-5	Bs4-TIR	1	574	729	E=3.80003e-67		1
RH025E12-6-5856		11	4-5	Bs4-NBS	2	1135	1166	E=0.000867609		
RH025E12-6-5856		11	4-5	Bs4-LRR	2	1178	1213	E=5.67871e-08		
RH025E12-6-5856		11	4-5	N-Nt-LRR	3	1546	1575	E=0.00173461		
RH025E12-6-5856		11	4-5	N-Nt-CNL	2	1593	1740	E=9.19441e-40		
RH057B24-1-3338	AC238063	11	4-5	Bs4-TIR	-2	454	606	E=1.29633e-64	RGH-SSR15	1
RH057B24-1-3338		11	4-5	Bs4-NBS	-3	644	755	E=9.10506e-39		
RH057B24-2-22702		11	4-5	Y-1-LRR	-3	225	684	E=6.92574e-57		1
RH057B24-2-22702		11	4-5	N-Nt-CNL	-3	631	777	E=1.91548e-40		
RH057B24-4-17578		11	4-5	Bs4-TIR	1	1451	1567	E=2.80123e-54		1
RH057B24-4-17578		11	4-5	Bs4-NBS	3	1543	1608	E=3.94402e-18		
RH057B24-4-17578		11	4-5	Bs4-TIR	3	2302	2461	E=8.45577e-71		1
RH057B24-4-17578		11	4-5	N-Nt-NBS	1	2568	2916	E=8.69849e-137		
RH057B24-4-17578		11	4-5	Gro1-4-NBS	2	2911	2991	E=1.82952e-08		
RH057B24-4-17578		11	4-5	N-Nt-LRR	1	3059	3180	E=1.76266e-34		
RH057B24-4-17578		11	4-5	Y-1-CNL	1	3181	3231	E=2.21125e-07		
RH057B24-5-4411		11	4-5	Y-1-LRR	-3	146	462	E=1.70537e-56		1
RH057B24-5-4411		11	4-5	Bs4-CNL	-3	405	536	E=2.74389e-35		
RH057B24-6-15125		11	4-5	N-Nt-CNL	1	1964	2094	E=2.02952e-42		
RH057B24-6-15125		11	4-5	Bs4-TIR	3	2976	3133	E=1.24906e-77		1
RH057B24-6-15125		11	4-5	Bs4-NBS	1	3181	3287	E=8.82153e-33		
RH057B24-6-15125		11	4-5	Bs4-NBS	3	3277	3525	E=6.50352e-106		
RH057B24-6-15125		11	4-5	Bs4-LRR	1	4560	4613	E=5.90692e-16		
RH057B24-8-5173		11	4-5	N-Nt-LRR	-3	422	733	E=1.5489e-77		1
RH057B24-8-5173		11	4-5	N-Nt-CNL	-3	1102	1238	E=6.00261e-43		
RH057B24-9-30201		11	4-5	N-Nt-LRR	-1	1218	1389	E=1.94547e-39		1
RH057B24-9-30201		11	4-5	Rp1D-LRR	-2	1416	1474	E=0.0010765		
RH057B24-9-30201		11	4-5	Bs4-CNL	-2	1502	1680	E=4.41995e-31		
RH057B24-9-30201		11	4-5	Bs4-CNL	-3	4568	4640	E=2.29635e-16		
RH057B24-9-30201		11	4-5	Y-1-TIR	-3	6975	7027	E=1.69645e-09		1
RH057B24-9-30201		11	4-5	Bs4-TIR	-2	7398	7556	E=5.08142e-72		
RH057B24-9-30201		11	4-5	Rpp5-TIR	-3	7596	7652	E=7.48246e-05		
RH057B24-9-30201		11	4-5	Bs4-NBS	-3	7601	7952	E=3.83108e-147		
RH057B24-9-30201		11	4-5	N-Nt-LRR	-3	8054	8141	E=7.01796e-17		
RH057B24-9-30201		11	4-5	Bs4-LRR	-2	9016	9285	E=2.97621e-78		
RH080J12-1-5613	AC238128	11	4-5	Bs4-TIR	1	811	971	E=4.99008e-77	potato physical map/BACend tool	1
RH080J12-1-5613		11	4-5	N-Nt-NBS	1	1075	1424	E=7.45777e-121		
RH080J12-1-5613		11	4-5	Bs4-LRR	1	1689	1742	E=1.40635e-16		

RH080J12-2-5982		11	4-5	Bs4-TIR	2	923	1083	E=8.09851e-76		1
RH080J12-2-5982		11	4-5	N-Nt-NBS	3	1196	1369	E=2.85806e-62		
RH080J12-2-5982		11	4-5	Y-1-NBS	1	1340	1583	E=1.7252e-76		
RH080J12-2-5982		11	4-5	Y-1-LRR	3	1629	1671	E=5.46764e-09		
RH080J12-2-5982		11	4-5	N-Nt-LRR	2	1654	1752	E=6.40995e-13		
RH080J12-3-2538		11	4-5	N-Nt-LRR	2	439	700	E=4.55361e-70		1
RH080J12-5-46046		11	4-5	Rcy1-DomainE	2	3251	3372	E=0.00156424		1
RH080J12-5-46046		11	4-5	Bs4-NBS	3	3658	3695	E=1.22079e-05		
RH080J12-5-46046		11	4-5	Gro1-4-NBS	3	3734	3786	E=3.36697e-05		
RH080J12-5-46046		11	4-5	N-Nt-LRR	1	4053	4314	E=1.99003e-76		
RH080J12-5-46046		11	4-5	Y-1-LRR	2	4877	5040	E=3.90905e-44		
RH080J12-5-46046		11	4-5	N-Nt-CNL	2	4986	5124	E=2.3967e-44		
RH080J12-5-46046		11	4-5	Bs4-TIR	2	6901	7057	E=1.88539e-67		1
RH080J12-5-46046		11	4-5	Bs4-NBS	2	7116	7483	E=2.36472e-142		
RH080J12-5-46046		11	4-5	Rpp1-NBS	3	7618	7653	E=0.433539		
RH080J12-5-46046		11	4-5	Y-1-LRR	3	7766	8157	E=8.95341e-121		
RH080J12-5-46046		11	4-5	N-Nt-CNL	3	8105	8242	E=2.90964e-37		
RH080J12-8-6852		11	4-5	Y-1-LRR	2	23	176	E=7.74612e-45		1
RH080J12-8-6852		11	4-5	N-Nt-CNL	2	125	278	E=6.74639e-43		1
RH080J12-9-29683		11	4-5	Bs4-TIR	-2	5324	5485	E=2.12749e-82		1
RH080J12-9-29683		11	4-5	Bs4-NBS	-1	5514	5869	E=1.1598e-153		
RH080J12-9-29683		11	4-5	N-Nt-LRR	-3	6092	6220	E=2.65294e-34		
RH080J12-9-29683		11	4-5	N-Nt-LRR	-2	7743	7785	E=3.03027e-07		
RH080J12-9-29683		11	4-5	Y-1-LRR	-1	7849	8056	E=6.40466e-39		
RH080J12-9-29683		11	4-5	Bs4-CNL	-2	8021	8161	E=2.17096e-37		
RH102C09-18-2078	AC238197	11	4-5	N-Nt-LRR	-3	1	79	E=1.45286e-10	potato physical map	1
RH102C09-2-4835		11	4-5	N-Nt-LRR	1	64	274	E=1.9798e-65		1
RH102C09-2-4835		11	4-5	Y-1-LRR	2	242	398	E=2.03432e-52		
RH102C09-4-3342		11	4-5	Bs4-CNL	3	840	932	E=1.39113e-18		1
RH102C09-6-2228		11	4-5	Bs4-NBS	3	1	184	E=1.04653e-47		1
RH102C09-6-2228		11	4-5	Bs4-LRR	3	529	582	E=4.48649e-15		
RH069F21-5-32132	AC237847	11	5-6	N-Nt-LRR	3	1197	1329	E=2.0489e-33	BACend tool	1
RH069F21-5-32132		11	5-6	N-Nt-LRR	2	1291	1432	E=2.60904e-34		
RH069F21-5-32132		11	5-6	Rps4-LRR	1	1456	1636	E=6.48043e-10		
RH069F21-5-32132		11	5-6	Gro1-4-LRR	2	1671	1823	E=6.12442e-16		
RH069F21-5-32132		11	5-6	Bs4-CNL	2	1779	1944	E=5.57668e-35		
RH069F21-5-32132		11	5-6	Bs4-TIR	1	2866	3021	E=7.39903e-71		1
RH069F21-5-32132		11	5-6	Y-1-NBS	1	3071	3417	E=6.97743e-120		
RH069F21-5-32132		11	5-6	N-Nt-LRR	1	3855	4065	E=1.1323e-64		
RH069F21-5-32132		11	5-6	Bs4-CNL	1	6296	6388	E=1.14822e-18		
RH069F21-5-32132		11	5-6	Bs4-TIR	2	8922	9080	E=1.27303e-69		1
RH069F21-5-32132		11	5-6	Prf-NBS	1	9150	9259	E=0.000152388		
RH069F21-7-56856		11	5-6	Gro1-4-NBS	3	858	938	E=1.33241e-08		1
RH069F21-7-56856		11	5-6	Bs4-NBS	1	1088	1371	E=5.59983e-104		
RH069F21-7-56856		11	5-6	N-Nt-LRR	3	1550	1696	E=1.93266e-33		
RH069F21-7-56856		11	5-6	N-Nt-TIR	1	3662	3809	E=3.41379e-58		1
RH069F21-7-56856		11	5-6	Rpp4-NBS	1	3888	4170	E=1.52748e-38		
RH069F21-7-56856		11	5-6	N-Nt-LRR	2	4730	5069	E=3.85151e-72		
RH069F21-7-56856		11	5-6	Bs4-CNL	2	5200	5382	E=1.96469e-36		
RH069F21-7-56856		11	5-6	Bs4-TIR	1	13437	13597	E=1.05043e-70		1
RH069F21-7-56856		11	5-6	Bs4-NBS	2	13689	14063	E=7.8543e-117		
RH069F21-7-56856		11	5-6	N-Nt-LRR	1	14502	14825	E=8.41873e-80		
RH069F21-7-56856		11	5-6	N-Nt-CNL	1	15036	15211	E=2.95346e-43		
RH069F21-8-15695		11	5-6	N-Nt-CNL	1	733	842	E=9.11331e-13		1
RH069F21-8-15695		11	5-6	Bs4-TIR	2	1991	2150	E=3.70394e-69		1
RH069F21-8-15695		11	5-6	Bs4-NBS	1	2180	2404	E=3.3469e-95		
RH095A10-10-17615	AC237855	11	5-6	Bs4-TIR	-2	2728	2889	E=2.78019e-80	BACend tool	1
RH095A10-10-17615		11	5-6	Bs4-NBS	-3	2980	3377	E=5.51925e-154		
RH095A10-10-17615		11	5-6	N-Nt-LRR	-3	4192	4473	E=1.69288e-87		
RH095A10-10-17615		11	5-6	Bs4-CNL	-3	4606	4761	E=2.02666e-44		
RH095A10-2-42637		11	5-6	Y-1-TIR	1	180	204	E=2.10989e-05		1
RH095A10-2-42637		11	5-6	Bs4-NBS	2	1201	1485	E=8.45456e-122		
RH095A10-2-42637		11	5-6	Bs4-NBS	1	1471	1561	E=5.09641e-26		
RH095A10-2-42637		11	5-6	Y-1-NBS	3	2161	2204	E=3.40445e-05		
RH095A10-2-42637		11	5-6	N-Nt-LRR	1	2644	2928	E=4.27938e-54		
RH095A10-2-42637		11	5-6	Rps4-LRR	1	3123	3230	E=4.06497e-07		
RH095A10-2-42637		11	5-6	N-Nt-CNL	1	3258	3278	E=0.00813213		
RH095A10-2-42637		11	5-6	Bs4-TIR	2	3673	3829	E=5.9578e-70		1
RH095A10-2-42637		11	5-6	Y-1-NBS	2	3878	4224	E=8.23264e-125		
RH095A10-2-42637		11	5-6	Gro1-4-NBS	1	4386	4474	E=8.71131e-07		
RH095A10-2-42637		11	5-6	Y-1-LRR	2	4660	5038	E=6.62844e-122		
RH095A10-2-42637		11	5-6	Bs4-CNL	2	4981	5110	E=2.52424e-35		
RH095A10-2-42637		11	5-6	Y-1-TIR	3	7919	8069	E=7.49893e-63		1
RH095A10-2-42637		11	5-6	Pib-NBS	2	8265	8537	E=4.15899e-16		
RH095A10-2-42637		11	5-6	Y-1-LRR	3	9415	9829	E=3.56683e-101		
RH095A10-2-42637		11	5-6	N-Nt-CNL	3	9792	9965	E=1.96974e-30		
RH095A10-2-42637		11	5-6	Rpp5-LRR	1	10872	10963	E=3.53557e-11		1
RH095A10-2-42637		11	5-6	Prf-LRR	3	11274	11370	E=0.0089675		
RH095A10-7-8114		11	5-6	Bs4-TIR	-3	1191	1266	E=1.90461e-32		1
RH095A10-7-8114		11	5-6	Y-1-LRR	-2	1270	1317	E=2.28986e-18		
RH095A10-7-8114		11	5-6	N-Nt-CNL	-3	1328	1433	E=4.03334e-33		
RH095A10-8-8624		11	5-6	Bs4-TIR	3	761	923	E=1.916e-69		1
RH095A10-8-8624		11	5-6	Bs4-NBS	1	966	1333	E=2.6508e-151		
RH095A10-8-8624		11	5-6	Bs4-LRR	1	1582	1633	E=1.28265e-17		
RH095A10-8-8624		11	5-6	Y-1-LRR	3	1633	2026	E=2.02419e-98		
RH095A10-8-8624		11	5-6	N-Nt-CNL	3	1976	2121	E=1.43162e-37		
RH144F23-7-23529	AC240028	11	5-6	Rpp4-TIR	2	742	891	E=3.6291e-32	RGH-CAPS10 (SH)	1
RH144F23-7-23529		11	5-6	N-Nt-NBS	1	940	1059	E=2.05834e-43		
RH144F23-7-23529		11	5-6	N-Nt-NBS	2	1065	1291	E=9.4265e-90		
RH144F23-7-23529		11	5-6	Bs4-LRR	2	1699	1747	E=1.86712e-17		
RH144F23-7-23529		11	5-6	Y-1-LRR	1	3134	3580	E=9.82607e-88		
RH144F23-7-23529		11	5-6	N-Nt-CNL	1	3526	3664	E=8.44858e-44		
RH144F23-7-23529		11	5-6	Bs4-CNL	2	3681	3699	E=0.00826214		
RH144F23-7-23529		11	5-6	Y-1-TIR	1	6646	6693	E=0.000375334		1
RH144F23-7-23529		11	5-6	Bs4-TIR	2	6766	6925	E=3.10592e-72		
RH144F23-7-23529		11	5-6	Bs4-NBS	3	6917	7271	E=3.5837e-147		
RH157M15-1-40191	AC240040	11	5-6	N-Nt-TIR	-3	8003	8026	E=4.641e-06	RGH-CAPS16 (SH)	1
RH157M15-1-40191		11	5-6	Bs4-TIR	-1	8015	8151	E=1.49692e-57		

RH157M15-1-40191		11	5-6	Bs4-NBS	-2	8189	8555	E=1.3171e-146			
RH157M15-1-40191		11	5-6	Bs4-NBS	-1	8759	8792	E=1.05024e-06			
RH157M15-1-40191		11	5-6	Bs4-LRR	-1	8816	8869	E=1.07681e-16			
RH157M15-1-40191		11	5-6	Y-1-LRR	-3	9591	9945	E=7.86862e-106			
RH157M15-1-40191		11	5-6	N-Nt-CNL	-3	9898	10044	E=1.69554e-29			
RH157M15-1-40191		11	5-6	Y-1-LRR	-2	10740	10863	E=9.04063e-30		1	
RH157M15-2-45064		11	5-6	Rpp5-LRR	-1	1358	1765	E=2.47527e-32		1	
RH157M15-2-45064		11	5-6	Bs4-CNL	-1	1842	2001	E=1.80689e-37			
RH157M15-2-45064		11	5-6	Bs4-TIR	-2	9297	9453	E=9.44917e-62		1	
RH157M15-2-45064		11	5-6	Bs4-NBS	-2	9558	9930	E=1.31795e-115			
RH157M15-2-45064		11	5-6	Bs4-LRR	-3	10049	10096	E=3.55177e-15			
RH157M15-2-45064		11	5-6	Y-1-LRR	-1	10172	10532	E=1.6688e-102			
RH157M15-2-45064		11	5-6	Bs4-LRR	-2	10999	11026	E=8.99349e-05			
RH157M15-2-45064		11	5-6	N-Nt-CNL	-3	11328	11430	E=1.65651e-23			
RH157M15-3-9201		11	5-6	Bs4-NBS	-1	710	786	E=1.98918e-19		1	
RH157M15-3-9201		11	5-6	Bs4-NBS	-2	766	1062	E=9.0539e-116			
RH157M15-3-9201		11	5-6	Bs4-LRR	-2	1363	1416	E=8.10837e-17			
RH157M15-3-9201		11	5-6	Y-1-LRR	-1	2102	2456	E=1.17445e-105			
RH157M15-3-9201		11	5-6	N-Nt-CNL	-1	2409	2555	E=1.61275e-29			
RH170N15-13-10834	AC238340	11	5-6	N-Nt-LRR	-1	154	258	E=9.01145e-18	potato physical map	1	
RH170N15-13-10834		11	5-6	Y-1-LRR	-3	261	689	E=2.51386e-99			
RH170N15-13-10834		11	5-6	N-Nt-CNL	-3	639	709	E=8.87e-20			
RH170N15-13-10834		11	5-6	N-Nt-CNL	-1	1478	1587	E=9.26666e-13			
RH170N15-13-10834		11	5-6	Bs4-TIR	-2	2737	2896	E=4.79591e-70		1	
RH170N15-13-10834		11	5-6	Bs4-NBS	-1	2925	3149	E=2.31847e-95			
RH170N15-15-11634		11	5-6	Bs4-TIR	-2	519	680	E=2.60596e-73		1	
RH170N15-15-11634		11	5-6	Bs4-NBS	-1	767	1119	E=6.36445e-123			
RH170N15-15-11634		11	5-6	Bs4-LRR	-3	1321	1374	E=2.28372e-13			
RH170N15-15-11634		11	5-6	Y-1-LRR	-2	1533	1965	E=2.50731e-108			
RH170N15-15-11634		11	5-6	Bs4-CNL	-2	1913	2087	E=2.7203e-36			
RH170N15-16-13869		11	5-6	Bs4-TIR	-3	260	349	E=1.32696e-41		1	
RH170N15-16-13869		11	5-6	Bs4-TIR	-2	337	404	E=2.07335e-27			
RH170N15-16-13869		11	5-6	Bs4-NBS	-2	529	559	E=0.01440806			
RH170N15-16-13869		11	5-6	Bs4-NBS	-3	1284	1639	E=3.71285e-140			
RH170N15-17-8047		11	5-6	Bs4-TIR	-2	253	409	E=4.09637e-67		1	
RH170N15-17-8047		11	5-6	Y-1-NBS	-3	454	800	E=2.67054e-123			
RH170N15-17-8047		11	5-6	Bs4-NBS	-1	877	947	E=2.20568e-08			
RH170N15-17-8047		11	5-6	N-Nt-LRR	-2	1198	1326	E=1.13303e-33			
RH170N15-17-8047		11	5-6	Y-1-LRR	-1	1311	1562	E=1.34227e-76			
RH170N15-17-8047		11	5-6	Bs4-CNL	-1	1514	1644	E=1.72115e-32			
RH170N15-18-3894		11	5-6	N-Nt-LRR	-3	1	259	E=4.10307e-84		1	
RH170N15-18-3894		11	5-6	Lr21-NBS	-3	293	361	E=0.0275058			
RH170N15-18-3894		11	5-6	Bs4-CNL	-3	394	549	E=2.11178e-46			
RH170N15-20-3681		11	5-6	Y-1-NBS	-3	89	132	E=3.40445e-05		1	
RH170N15-20-3681		11	5-6	N-Nt-LRR	-3	280	451	E=4.61311e-54			
RH170N15-20-3681		11	5-6	Y-1-LRR	-1	571	928	E=4.88968e-49			
RH170N15-20-3681		11	5-6	Y-1-CNL	-2	910	975	E=5.99916e-18			
RH170N15-3-1832		11	5-6	Bs4-TIR	-1	355	518	E=3.35591e-64		1	
RH139G21-10-8763	AC240022	11	6-8	Y-1-LRR	-1	230	617	E=4.77589e-159	RGH-SSR33	1	
RH139G21-10-8763		11	6-8	Bs4-CNL	-1	560	689	E=2.33552e-44			
RH139G21-12-5198		11	6-8	Bs4-LRR	-3	242	289	E=1.53006e-13		1	
RH139G21-12-5198		11	6-8	Y-1-LRR	1	613	1015	E=2.78954e-143			
RH139G21-12-5198		11	6-8	N-Nt-CNL	1	962	1111	E=1.90883e-52			
RH139G21-12-5198		11	6-8	Bs4-TIR	1	1126	1283	E=6.52481e-73		1	
RH139G21-12-5198		11	6-8	Bs4-NBS	3	1401	1642	E=4.41036e-93			
RH139G21-15-3515		11	6-8	Y-1-TIR	1	153	311	E=3.5839e-77		1	
RH139G21-15-3515		11	6-8	Y-1-NBS	3	332	707	E=3.69952e-150			
RH139G21-15-3515		11	6-8	Y-1-NBS	1	780	847	E=3.63313e-11			
RH139G21-15-3515		11	6-8	Y-1-LRR	-1	848	894	E=1.23462e-19			
RH139G21-16-10041		11	6-8	Gro1-4-NBS	-3	249	338	E=1.35601e-05		1	
RH139G21-16-10041		11	6-8	N-Nt-LRR	-3	971	1254	E=1.44763e-80			
RH139G21-16-10041		11	6-8	R3a-LRR	-3	1081	1435	E=9.58888e-07			
RH139G21-16-10041		11	6-8	Rpp4-LRR	-3	1571	1981	E=6.14654e-27			
RH139G21-16-10041		11	6-8	N-Nt-CNL	-3	2002	2151	E=7.08656e-46			
RH139G21-16-10041		11	6-8	N-Nt-CNL	-1	2884	2918	E=2.28643e-05			
RH139G21-16-10041		11	6-8	N-Nt-CNL	-2	2955	2990	E=0.0208774			
RH139G21-17-8004		11	6-8	Bs4-NBS	2	1	90	E=4.69116e-24		1	
RH139G21-17-8004		11	6-8	N-Nt-LRR	2	325	441	E=5.1554e-16			
RH139G21-18-2146		11	6-8	Y-1-TIR	-1	194	350	E=1.33091e-69		1	
RH139G21-18-2146		11	6-8	Rpp5-TIR	-2	368	421	E=2.79547e-05			
RH139G21-18-2146		11	6-8	Bs4-NBS	-2	372	677	E=1.0515e-117			
RH139G21-20-8533		11	6-8	Bs4-NBS	-1	1	85	E=6.60464e-24			
RH139G21-20-8533		11	6-8	P2-NBS	-3	303	352	E=3.76485e-05			
RH139G21-20-8533		11	6-8	N-Nt-LRR	-3	635	915	E=3.39054e-80			
RH139G21-20-8533		11	6-8	Lr21-NBS	-3	902	979	E=0.00554223			
RH139G21-20-8533		11	6-8	N-Nt-LRR	-2	1384	1544	E=3.11229e-30			
RH139G21-20-8533		11	6-8	N-Nt-CNL	-2	1544	1701	E=2.69055e-48			
RH139G21-20-8533		11	6-8	Y-1-CNL	-1	2230	2306	E=3.32714e-08			
RH139G21-20-8533		11	6-8	N-Nt-CNL	-3	2303	2334	E=0.00406857			
RH139G21-3-3153		11	6-8	Y-1-LRR	-2	155	531	E=5.72858e-136		1	
RH139G21-3-3153		11	6-8	Bs4-CNL	-2	478	578	E=1.70537e-35			
RH139G21-3-3153		11	6-8	N-Nt-CNL	-1	554	612	E=2.88146e-13			
RH139G21-3-3153		11	6-8	Bs4-TIR	-1	629	785	E=4.75744e-69		1	
RH139G21-3-3153		11	6-8	Bs4-NBS	-1	948	1013	E=3.36386e-20			
RH139G21-9-3079		11	6-8	Y-1-TIR	-2	535	705	E=5.64706e-34		1	
RH139G21-9-3079		11	6-8	N-Nt-NBS	-2	773	988	E=4.40169e-69			
Xib-CNL	RH044H02-2-31394	AC238022	11	57-62	I2-CC	-1	2844	2996	E=8.68455e-58	RGH-SSR10	1
	RH044H02-2-31394		11	57-62	R1-LRR	-1	4528	4783	E=1.25293e-05		
	RH044H02-2-31394		11	57-62	Rpp1-LRR	3	4735	4821	E=0.0439814		
	RH044H02-2-31394		11	57-62	R3a-CC	-1	5440	5603	E=1.87112e-56		1
	RH044H02-2-31394		11	57-62	R3a-NBS	-1	5604	5986	E=4.73556e-174		
	RH044H02-2-31394		11	57-62	R3a-LRR	-1	5987	6557	E=0.0		
	RH044H02-2-31394		11	57-62	LR1-LRR	-1	6730	6785	E=0.00151703		
	RH044H02-4-14434		11	57-62	R3a-CC	-2	3415	3446	E=0.000145443		1
	RH044H02-5-33078		11	57-62	I2-CC	-2	417	555	E=3.72196e-45		1
	RH044H02-5-33078		11	57-62	R3a-NBS	-2	557	905	E=1.21203e-126		
	RH044H02-5-33078		11	57-62	I2-LRR	-2	906	1659	E=0.0		
	RH044H02-7-5022		11	57-62	R3a-LRR	-2	432	585	E=4.14851e-19		1

Xlc-TNL	RH124N10-4-12711	AC240011	11	59-63	Bs4-TIR	-1	2188	2308	E=8.69779e-60	RGH-CAPS8	1
	RH124N10-4-12711		11	59-63	Bs4-NBS	-1	2514	2823	E=4.72515e-143		
	RH124N10-4-12711		11	59-63	N-Nt-LRR	-3	2830	3350	E=9.9102e-93		
	RH124N10-4-12711		11	59-63	Bs4-CNL	-3	3351	3506	E=7.37594e-49		
	RH125M10-3-16235	AC240014	11	59-63	Y-1-LRR	-1	2450	2616	E=4.44052e-36	potato physical map	1
Xld-CNL	RH128F11-2-31745	AC240015	11	77	Rpi-blb2-CC	-1	5087	5325	E=1.87613e-71	potato physical map	1
	RH128F11-2-31745		11	77	Rpi-blb2-NBS	-1	5819	5991	E=2.26706e-84		
	RH128F11-2-31745		11	77	Mi-1-LRR	-2	5977	6102	E=1.57517e-43		
	RH128F11-2-31745		11	77	CaMi-CC	-3	8410	8959	E=0.0		1
	RH128F11-2-31745		11	77	Rpi-blb2-NBS	-3	8950	9302	E=1.56026e-164		
RH128F11-2-31745		11	77	Rpi-blb2-LRR	-3	9303	9663	E=1.50265e-148			
Xle-CNL	RH013115-1-1337	AC239967	11	82-83	R3a-LRR	1	210	371	E=1.51465e-12	RGH-CAPS4	1
	RH013115-11-18245		11	82-83	I2-CC	-1	145	305	E=8.11671e-61		1
	RH013115-11-18245		11	82-83	R3a-NBS	-1	306	691	E=0.0		
	RH013115-11-18245		11	82-83	I2-LRR	-1	692	1416	E=0.0		
	RH022H03-1-1889	AC237958	11	82-83	R3a-CC	1	1	88	E=4.56676e-29	NBS profiling	1
	RH022H03-1-1889		11	82-83	R3a-NBS	1	89	469	E=5.64281e-145		
	RH022H03-1-1889		11	82-83	R3a-LRR	1	470	629	E=1.42243e-56		
	RH022H03-2-118380		11	82-83	R3a-NBS	3	1	251	E=1.0979e-93		1
	RH022H03-2-118380		11	82-83	I2-LRR	3	252	989	E=0.0		
	RH022H03-2-118380		11	82-83	R3a-NBS	2	4159	4540	E=4.53183e-153		1
	RH022H03-2-118380		11	82-83	Y-1-LRR	2	4849	5142	E=0.000155331		
	RH022H03-2-118380		11	82-83	I2-CC	2	24200	24364	E=1.12612e-53		1
	RH022H03-2-118380		11	82-83	I2-NBS	2	24366	24740	E=1.34722e-148		
	RH022H03-2-118380		11	82-83	R3a-LRR	2	24741	25424	E=0.0		
	RH022H03-2-118380		11	82-83	R3a-NBS	1	30985	31031	E=9.44696e-08		1
	RH022H03-2-118380		11	82-83	Rpg1-b-LRR	2	31108	31792	E=6.27489e-68		
	RH028M02-1-1603	AC237973	11	82-83	I2-LRR	-3	1	161	E=9.23694e-50	RGH-SSR6	1
	RH028M02-1-1603		11	82-83	R3a-LRR	-2	146	288	E=1.09038e-52		
	RH028M02-10-2319		11	82-83	I2-NBS	-2	107	139	E=0.0116005		1
	RH028M02-10-2319		11	82-83	I2-LRR	-2	140	194	E=1.55411e-10		
	RH028M02-17-5270		11	82-83	R3a-NBS	-3	1311	1478	E=1.48859e-79		1
	RH028M02-17-5270		11	82-83	R3a-LRR	-3	1476	1660	E=8.56727e-79		
	RH028M02-2-4213		11	82-83	R3a-CC	-2	1143	1209	E=6.07706e-22		1
	RH028M02-3-5082		11	82-83	I2-CC	-2	251	417	E=6.90672e-71		1
	RH028M02-3-5082		11	82-83	I2-NBS	-2	418	803	E=0.0		
	RH028M02-3-5082		11	82-83	I2-LRR	-2	804	1392	E=0.0		
	RH028M02-3-5082		11	82-83	I2-LRR	-3	1313	1452	E=8.61104e-33		
	RH028M02-5-7067		11	82-83	I2-LRR	-3	6	189	E=2.24203e-41		1
	RH092I19-16-5288	AC240003	11	82-83	I2-CC	1	263	418	E=6.64374e-61	RGH-SSR25 (SH)	1
	RH092I19-16-5288		11	82-83	R3a-NBS	1	419	623	E=1.85663e-94		
	RH092I19-16-5288		11	82-83	I2-NBS	3	575	758	E=4.46494e-73		
	RH092I19-16-5288		11	82-83	I2-LRR	3	759	1447	E=0.0		
	RH092I19-2-5293		11	82-83	R3a-CC	3	334	500	E=2.26107e-65		1
	RH092I19-2-5293		11	82-83	R3a-NBS	3	501	883	E=5.60694e-167		
	RH092I19-2-5293		11	82-83	I2-LRR	3	884	1584	E=0.0		
	RH202G21-1-15573	AC240069	11	82-83	I2-CC	-2	27	187	E=9.28672e-57	potato physical map/BACend tool	1
	RH202G21-1-15573		11	82-83	R3a-NBS	-2	188	573	E=0.0		
	RH202G21-1-15573		11	82-83	I2-LRR	-2	574	1338	E=0.0		
	RH202G21-1-15573		11	82-83	R3a-CC	-3	3227	3248	E=2.50094e-05		1
	RH202G21-1-15573		11	82-83	I2-NBS	-3	3249	3634	E=0.0		
	RH202G21-1-15573		11	82-83	I2-LRR	-3	3635	4361	E=0.0		
	RH202G21-8-12962		11	82-83	I2-CC	-3	711	871	E=1.3841e-61		1
	RH202G21-8-12962		11	82-83	R3a-NBS	-3	872	1253	E=0.0		
	RH202G21-8-12962		11	82-83	I2-LRR	-3	1255	1978	E=0.0		
	RH010P17-3-38584	AC239965	11	84-86	I2-CC	-1	9811	9971	E=6.5319e-62	BACend tool	1
	RH010P17-3-38584		11	84-86	R3a-NBS	-1	9972	10354	E=1.2657e-178		
	RH010P17-3-38584		11	84-86	R3a-LRR	-1	10355	10690	E=4.80422e-146		
	RH010P17-3-38584		11	84-86	R3a-LRR	-2	10591	10987	E=4.36544e-131		
	RH010P17-4-52174		11	84-86	R3a-CC	-3	5741	5907	E=9.81063e-68		1
	RH010P17-4-52174		11	84-86	R3a-NBS	-3	5908	6296	E=0.0		
RH010P17-4-52174		11	84-86	I2-LRR	-3	6297	7002	E=0.0			
RH010P17-4-52174		11	84-86	I2-CC	-1	13241	13401	E=1.26272e-61		1	
RH010P17-4-52174		11	84-86	R3a-NBS	-1	13402	13784	E=0.0			
RH010P17-4-52174		11	84-86	I2-LRR	-1	13785	14516	E=0.0			
RH019C05-5-17229	AC234529	11	84-86	I2-CC	-3	344	508	E=9.72956e-69	BACend tool	1	
RH019C05-5-17229		11	84-86	R3a-NBS	-3	509	893	E=0.0			
RH019C05-5-17229		11	84-86	R3a-LRR	-3	894	1242	E=1.23831e-160			
RH019C05-5-17229		11	84-86	I2-NBS	-2	1	274	E=2.54017e-119		1	
RH019C05-7-35371		11	84-86	R3a-LRR	-2	275	610	E=1.50682e-145			
RH019C05-7-35371		11	84-86	R3a-LRR	-3	548	944	E=1.45155e-130			
RH028E12-11-3311	AC237970	11	84-86	I2-LRR	2	1	48	E=3.76237e-11	NBS profiling	1	
RH028E12-12-11571		11	84-86	I2-LRR	-1	2	522	E=1.42602e-134		1	
RH028E12-15-4491		11	84-86	R3a-LRR	-3	6	637	E=3.1607e-180		1	
RH028E12-17-4563		11	84-86	R3a-NBS	-1	1	137	E=4.70422e-53		1	
RH028E12-17-4563		11	84-86	R3a-LRR	-1	138	394	E=3.27144e-90			
RH028E12-2-5648		11	84-86	R3a-LRR	-3	1259	1723	E=8.5345e-121		1	
RH028E12-4-5572		11	84-86	R3a-NBS	-1	1	202	E=6.94288e-63		1	
RH028E12-4-5572		11	84-86	I2-LRR	1	203	544	E=1.82644e-115			
RH028E12-4-5572		11	84-86	Xa1-LRR	1	1464	1793	E=0.000335989			
RH028E12-6-10746		11	84-86	R3a-NBS	-2	1	158	E=1.06316e-60		1	
RH028E12-6-10746		11	84-86	R3a-LRR	-2	159	902	E=0.0			
RH028E12-6-10746		11	84-86	LR1-NBS	-1	1238	1490	E=1.56314e-13		1	
RH028E12-6-10746		11	84-86	R3a-LRR	-1	1263	1818	E=0.0			
RH028E12-6-10746		11	84-86	Nrg1-LRR	-2	1836	1914	E=0.000970453			
RH034M10-3-55883	AC239975	11	84-86	R3a-LRR	-1	1146	1445	E=7.27534e-96	RGH-CAPS5	1	
RH034M10-3-55883		11	84-86	I2-CC	-3	12051	12217	E=7.45614e-66		1	
RH034M10-3-55883		11	84-86	R3a-NBS	-3	12218	12600	E=8.9257e-175			
RH034M10-3-55883		11	84-86	I2-LRR	-3	12601	13335	E=0.0			
RH034M10-4-37945		11	84-86	R3a-CC	-1	378	544	E=2.90165e-68		1	
RH034M10-4-37945		11	84-86	R3a-NBS	-1	545	927	E=0.0			
RH034M10-4-37945		11	84-86	I2-LRR	-1	928	1649	E=0.0			
RH042N17-10-16305	AC237835	11	84-86	I2-CC	-3	1705	1869	E=2.4615e-61	BACend tool	1	
RH042N17-10-16305		11	84-86	R3a-NBS	-3	1872	2248	E=7.38852e-165			
RH042N17-10-16305		11	84-86	I2-LRR	-3	2249	2991	E=0.0			
RH042N17-13-11949		11	84-86	I2-CC	-2	669	833	E=8.59243e-66		1	
RH042N17-13-11949		11	84-86	I2-NBS	-2	836	1212	E=3.00478e-144			
RH042N17-13-11949		11	84-86	R3a-LRR	-2	1213	1982	E=0.0			

RH042N17-5-27364		11	84-86	R3a-CC	-3	6514	6678	E=2.9599e-57		1
RH042N17-5-27364		11	84-86	I2-NBS	-3	6681	6848	E=1.33822e-56		
RH042N17-5-27364		11	84-86	R3a-NBS	-1	7074	7283	E=9.71832e-83		
RH042N17-5-27364		11	84-86	I2-LRR	-1	7284	8028	E=0.0		
RH042N17-8-5986		11	84-86	R3a-CC	3	1281	1386	E=6.76742e-25		1
RH042N17-9-6580		11	84-86	R3a-CC	-3	588	644	E=2.02831e-08		1
RH042N17-9-6580		11	84-86	I2-NBS	-3	647	941	E=1.3393e-82		
RH042N17-9-6580		11	84-86	R3a-LRR	-2	914	1099	E=1.17909e-70		
RH042N17-9-6580		11	84-86	I2-LRR	-1	1090	1171	E=1.49233e-06		
RH042N17-9-6580		11	84-86	R3a-LRR	-3	1216	1563	E=1.13248e-94		
RH043J22-3-59703	AC237837	11	84-86	Rpi-blb1-CC	1	3324	3496	E=2.03175e-06	BACend tool	1
RH043J22-3-59703		11	84-86	I2-NBS	1	3476	3862	E=0.0		
RH043J22-3-59703		11	84-86	I2-LRR	1	3863	4568	E=0.0		
RH043J22-3-59703		11	84-86	R3a-CC	1	8655	8821	E=1.43966e-68		1
RH043J22-3-59703		11	84-86	LR1-NBS	1	8823	9510	E=1.15709e-72		
RH043J22-3-59703		11	84-86	R3a-LRR	1	9205	9978	E=0.0		
RH043J22-3-59703		11	84-86	I2-NBS	3	11653	11749	E=1.88037e-34		1
RH043J22-3-59703		11	84-86	R3a-LRR	2	11836	11902	E=6.45199e-21		
RH043J22-3-59703		11	84-86	R3a-LRR	3	11881	11959	E=4.0775e-21		
RH043J22-3-59703		11	84-86	I2-LRR	2	11990	12142	E=1.85107e-40		
RH054B22-1-1938		11	84-86	R3a-LRR	-2	304	392	E=3.64671e-32	RGH-SSR14	1
RH054B22-1-1938		11	84-86	I2-LRR	-3	410	488	E=2.59346e-28		
RH054B22-12-6614		11	84-86	I2-NBS	2	542	638	E=1.71647e-32		1
RH054B22-12-6614		11	84-86	R3a-LRR	1	679	761	E=8.68985e-30		
RH054B22-12-6614		11	84-86	I2-LRR	2	809	992	E=1.92937e-41		
RH054B22-13-4626		11	84-86	R3a-CC	3	1071	1237	E=3.60044e-72		1
RH054B22-13-4626		11	84-86	R3a-NBS	3	1238	1477	E=5.42201e-110		
RH054B22-14-1741		11	84-86	R3a-CC	3	137	302	E=8.25053e-61		1
RH054B22-14-1741		11	84-86	R3a-NBS	3	303	566	E=3.33702e-115		
RH054B22-15-2197		11	84-86	I2-LRR	1	6	682	E=0.0		1
RH054B22-17-1172		11	84-86	R3a-LRR	-3	1	120	E=4.51184e-46		1
RH054B22-17-1172		11	84-86	R3a-LRR	-1	91	380	E=1.15421e-86		
RH054B22-4-4095		11	84-86	R3a-NBS	3	1	343	E=4.68292e-155		1
RH054B22-4-4095		11	84-86	I2-LRR	3	344	1092	E=0.0		
RH071A13-2-48547	AC238099	11	84-86	I2-CC	-3	5793	5959	E=3.98556e-68	RGH-SSR18	1
RH071A13-2-48547		11	84-86	R3a-NBS	-3	5960	6364	E=2.169e-162		
RH071A13-2-48547		11	84-86	I2-LRR	-3	6365	7115	E=0.0		
RH071A13-2-48547		11	84-86	I2-CC	-2	7638	7802	E=1.41795e-64		1
RH071A13-2-48547		11	84-86	I2-NBS	-2	7805	8181	E=4.18918e-149		
RH071A13-2-48547		11	84-86	I2-LRR	-2	8182	8949	E=0.0		
RH071A13-2-48547		11	84-86	I2-CC	-1	14607	14660	E=1.20917e-09		1
RH071A13-2-48547		11	84-86	I2-NBS	-1	14663	15039	E=5.51228e-152		
RH071A13-2-48547		11	84-86	R3a-LRR	-1	15040	15111	E=9.08635e-20		
RH071A13-5-34390		11	84-86	R3a-LRR	3	315	600	E=3.78423e-77		1
RH071A13-5-34390		11	84-86	R3a-CC	2	2616	2655	E=2.41395e-12		1
RH071A13-5-34390		11	84-86	I2-CC	1	2970	3134	E=6.11013e-62		
RH071A13-5-34390		11	84-86	R3a-LRR	1	3514	4260	E=0.0		
RH071A13-5-34390		11	84-86	Rpg1-b-CC	1	7960	8159	E=3.59606e-22		1
RH071A13-5-34390		11	84-86	R3a-NBS	1	8121	8530	E=2.49955e-162		
RH071A13-5-34390		11	84-86	Rp1D-LRR	1	8563	8781	E=1.24408e-22		
RH071O09-12-6216	AC239991	11	84-86	R3a-LRR	-2	1	48	E=5.34238e-10	BACend tool	1
RH071O09-12-6216		11	84-86	R3a-LRR	-1	43	73	E=0.114418		
RH071O09-3-9914		11	84-86	I2-CC	3	2512	2655	E=5.50913e-45		1
RH071O09-3-9914		11	84-86	R3a-NBS	3	2656	2697	E=0.000277409		
RH071O09-4-6676		11	84-86	R3a-NBS	2	1	92	E=2.06541e-43		1
RH071O09-4-6676		11	84-86	PM3b-LRR	2	144	223	E=4.2788e-10		
RH071O09-4-6676		11	84-86	R3a-LRR	2	1400	1958	E=0.0		
RH071O09-6-6361		11	84-86	R3a-LRR	-2	1	53	E=9.47893e-18		1
RH071O09-6-6361		11	84-86	I2-LRR	-1	213	417	E=8.13901e-26		
RH071O09-8-3309		11	84-86	R3a-CC	1	675	841	E=7.96585e-67		1
RH071O09-8-3309		11	84-86	R3a-NBS	1	842	1048	E=2.55523e-86		
RH072C08-1-100773	AC239992	11	84-86	I2-CC	2	5713	5876	E=1.57046e-57	potato physical map	1
RH072C08-1-100773		11	84-86	I2-NBS	1	5840	5973	E=4.56647e-53		
RH072C08-1-100773		11	84-86	R3a-NBS	3	5977	6211	E=1.95081e-96		
RH072C08-1-100773		11	84-86	R3a-LRR	3	6212	6810	E=0.0		
RH072C08-1-100773		11	84-86	I2-LRR	2	6768	6868	E=3.12507e-18		
RH072C08-1-100773		11	84-86	R3a-CC	-2	8936	9103	E=1.07818e-58		1
RH072C08-1-100773		11	84-86	CaMi-NBS	-2	9150	9487	E=2.45829e-20		
RH072C08-1-100773		11	84-86	Rp1D-LRR	-2	9517	9738	E=2.46382e-25		
RH072C08-1-100773		11	84-86	R3a-LRR	-3	9966	10198	E=2.0706e-56		
RH072C08-1-100773		11	84-86	I2-CC	-3	12677	12745	E=2.43217e-16		1
RH072C08-1-100773		11	84-86	I2-NBS	-2	13122	13508	E=0.0		
RH072C08-1-100773		11	84-86	R3a-LRR	-2	13509	14266	E=0.0		
RH136H12-1-9587	AC240020	11	84-86	I2-LRR	3	704	855	E=6.4856e-61	RGH-SSR32	1
RH136H12-1-9587		11	84-86	R3a-LRR	1	834	972	E=1.64396e-46		
RH136H12-1-9587		11	84-86	Xa1-LRR	-3	2022	2132	E=1.54552e-06		
RH136H12-2-51760		11	84-86	I2-CC	-1	4469	4569	E=1.88427e-33		1
RH136H12-2-51760		11	84-86	R3a-NBS	-1	4570	4644	E=1.36295e-09		
RH136H12-2-51760		11	84-86	R3a-CC	-3	5698	5864	E=3.57571e-67		1
RH136H12-2-51760		11	84-86	R3a-NBS	-3	5865	6247	E=1.82926e-174		
RH136H12-2-51760		11	84-86	I2-LRR	-3	6248	6996	E=0.0		
RH136H12-3-3586		11	84-86	R3a-CC	3	343	509	E=2.15066e-65		1
RH136H12-3-3586		11	84-86	I2-NBS	3	510	877	E=4.96401e-168		
RH136H12-3-3586		11	84-86	R3a-LRR	2	837	1114	E=8.5345e-121		
RH136H12-4-12604		11	84-86	R3a-CC	-3	3406	3445	E=1.27962e-14		1
RH136H12-5-7891		11	84-86	R3a-CC	-1	1219	1385	E=8.57463e-72		1
RH136H12-5-7891		11	84-86	R3a-NBS	-1	1386	1778	E=0.0		
RH136H12-5-7891		11	84-86	I2-LRR	-1	1779	2310	E=0.0		
RH136H12-5-7891		11	84-86	R3a-LRR	-2	2226	2441	E=6.49622e-55		
RH136H12-6-10240		11	84-86	R3a-CC	-3	739	903	E=5.03713e-65		1
RH136H12-6-10240		11	84-86	R3a-NBS	-3	904	1294	E=0.0		
RH136H12-6-10240		11	84-86	R1-LRR	-3	1160	1249	E=0.0377248		
RH136H12-6-10240		11	84-86	I2-LRR	-1	1287	1960	E=0.0		
RH136H12-7-21168		11	84-86	R3a-CC	-1	2783	2949	E=5.89903e-67		1
RH136H12-7-21168		11	84-86	R3a-NBS	-1	2950	3332	E=1.79638e-179		
RH136H12-7-21168		11	84-86	I2-LRR	-1	3333	4023	E=0.0		
RH136H12-7-21168		11	84-86	R3a-CC	-2	5345	5384	E=3.63002e-15		1
RH136H12-7-21168		11	84-86	R3a-NBS	-3	5485	5777	E=3.43132e-134		

RH136H12-7-21168		11	84-86	Rps2-LRR	-1	6017	6154	E=1.71558e-05			
RH136H12-7-21168		11	84-86	R3a-LRR	-2	6101	6413	E=8.72099e-104			
RH144P01-7-64035	AC240029	11	84-86	I2-CC	-2	7502	7524	E=3.16018e-05	RGH-SSR38	1	
RH144P01-7-64035		11	84-86	I2-CC	-3	7547	7696	E=1.31241e-43			
RH144P01-7-64035		11	84-86	R3a-NBS	-3	7699	8085	E=1.86869e-158			
RH144P01-7-64035		11	84-86	R3a-LRR	-1	8109	8180	E=3.5926e-26			
RH144P01-7-64035		11	84-86	R3a-LRR	-3	8165	8672	E=1.32264e-163			
RH166M24-11-10204	AC240044	11	84-86	I2-CC	-3	229	389	E=2.17255e-60	RGH-SSR45	1	
RH166M24-11-10204		11	84-86	R3a-NBS	-3	390	772	E=8.00124e-178			
RH166M24-11-10204		11	84-86	I2-LRR	-3	773	1504	E=0.0			
RH166M24-12-10125		11	84-86	R3a-CC	-1	343	509	E=5.24867e-67		1	
RH166M24-12-10125		11	84-86	I2-NBS	-1	510	895	E=0.0			
RH166M24-12-10125		11	84-86	I2-LRR	-1	896	1645	E=0.0			
RH166M24-13-11346		11	84-86	I2-CC	2	1451	1611	E=1.76352e-60		1	
RH166M24-13-11346		11	84-86	R3a-NBS	2	1612	1994	E=1.14511e-178			
RH166M24-13-11346		11	84-86	I2-LRR	2	1995	2722	E=0.0			
RH166M24-6-23818		11	84-86	I2-CC	3	2908	3068	E=8.39218e-61		1	
RH166M24-6-23818		11	84-86	R3a-NBS	3	3069	3451	E=7.67208e-179			
RH166M24-6-23818		11	84-86	R3a-LRR	3	3452	3787	E=2.12083e-146			
RH166M24-6-23818		11	84-86	R3a-LRR	1	3682	4078	E=1.22881e-129			
RH166M24-7-6949		11	84-86	R3a-CC	-3	375	541	E=5.47227e-67		1	
RH166M24-7-6949		11	84-86	R3a-NBS	-3	542	930	E=0.0			
RH166M24-7-6949		11	84-86	I2-LRR	-3	931	1636	E=0.0			
RH166M24-9-4187		11	84-86	I2-CC	-2	506	666	E=6.01424e-59		1	
RH166M24-9-4187		11	84-86	R3a-NBS	-2	667	1049	E=1.03721e-174			
RH166M24-9-4187		11	84-86	R3a-LRR	-2	1050	1353	E=4.94316e-134			
RH185F02-1-7051	AC240055	11	84-86	R3a-LRR	3	3	677	E=5.86048e-180	RGH-SSR47	1	
RH185F02-2-38126		11	84-86	I2-CC	2	7502	7524	E=3.16018e-05		1	
RH185F02-2-38126		11	84-86	I2-CC	3	7547	7696	E=1.31241e-43			
RH185F02-2-38126		11	84-86	R3a-NBS	3	7699	8085	E=2.44059e-158			
RH185F02-2-38126		11	84-86	R3a-LRR	1	8109	8180	E=3.71453e-26			
RH185F02-2-38126		11	84-86	R3a-LRR	3	8165	8672	E=3.28412e-163			
RH202M15-10-4842	AC240071	11	84-86	R3a-CC	-3	246	412	E=4.32715e-71	NBS profiling	1	
RH202M15-10-4842		11	84-86	R3a-NBS	-3	413	795	E=7.76107e-168			
RH202M15-10-4842		11	84-86	I2-LRR	-3	796	1512	E=0.0			
RH202M15-16-5113		11	84-86	I2-CC	-1	258	418	E=1.4682e-59		1	
RH202M15-16-5113		11	84-86	R3a-NBS	-1	419	801	E=4.57746e-176			
RH202M15-16-5113		11	84-86	R3a-LRR	-1	802	1137	E=3.24666e-145			
RH202M15-16-5113		11	84-86	I2-LRR	-2	1048	1446	E=1.44089e-127			
RH202M15-22-3315		11	84-86	R3a-NBS	3	281	331	E=4.75495e-16		1	
RH202M15-22-3315		11	84-86	I2-NBS	1	331	427	E=1.96161e-32			
RH202M15-22-3315		11	84-86	R3a-LRR	1	428	499	E=3.63849e-11			
RH202M15-22-3315		11	84-86	R3a-LRR	3	460	537	E=2.1379e-32			
RH202M15-22-3315		11	84-86	I2-LRR	2	595	707	E=2.29501e-18			
RH202M15-24-2363		11	84-86	R3a-LRR	-1	1	646	E=0.0		1	
RH202M15-26-10176		11	84-86	I2-CC	-2	203	367	E=2.5619e-67		1	
RH202M15-26-10176		11	84-86	R3a-NBS	-2	368	752	E=0.0			
RH202M15-26-10176		11	84-86	R3a-LRR	-2	753	1101	E=7.6963e-161			
RH202M15-37-4302		11	84-86	R3a-LRR	2	900	938	E=4.16297e-07		1	
RH202M15-5-2681		11	84-86	R3a-NBS	-2	419	796	E=4.32403e-171		1	
RH202M15-5-2681		11	84-86	I2-LRR	-2	797	856	E=7.01822e-19			
RH099L23-14-3612	AC240005	11		R3a-CC	2	520	685	E=1.74625e-64	potato physical map	1	
RH099L23-14-3612		11		I2-NBS	2	685	1070	E=0.0			
RH099L23-14-3612		11		I2-LRR	2	1071	1156	E=1.22392e-28			
RH099L23-17-4180		11		I2-LRR	3	1	414	E=3.05855e-121		1	
RH099L23-17-4180		11		Rpp1-b-LRR	3	1	402	E=5.74493e-27			
RH099L23-17-4180		11		I2-LRR	1	703	758	E=2.47973e-10			
RH099L23-21-4862		11		I2-CC	1	836	1002	E=4.1268e-63		1	
RH099L23-21-4862		11		I2-NBS	1	1003	1387	E=0.0			
RH099L23-21-4862		11		R3a-LRR	1	1388	1562	E=7.63602e-73			
RH099L23-22-5981		11		I2-NBS	3	34	90	E=3.25216e-15		1	
RH099L23-22-5981		11		R3a-LRR	1	52	669	E=0.0			
RH099L23-24-4006		11		I2-LRR	1	1	173	E=3.17193e-53		1	
RH099L23-26-6121		11		M-NBS	1	1320	1483	E=0.0321292		1	
RH099L23-28-894		11		R3a-CC	3	142	274	E=9.59867e-57		1	
RH099L23-30-7406		11		I2-CC	2	1	147	E=5.18304e-54		1	
RH099L23-30-7406		11		I2-NBS	2	148	532	E=0.0			
RH099L23-30-7406		11		I2-LRR	2	533	1248	E=0.0			
RH099L23-30-7406		11		I2-LRR	3	1472	1527	E=2.45913e-10			
RH099L23-4-5089		11		R3a-CC	3	187	353	E=2.37714e-65		1	
RH099L23-4-5089		11		I2-NBS	3	354	738	E=0.0			
RH099L23-4-5089		11		I2-LRR	3	739	1438	E=0.0			
RH101D04-10-19796	AC240006	11		R3a-CC	2	258	424	E=2.18178e-73	potato physical map	1	
RH101D04-10-19796		11		I2-NBS	2	425	812	E=0.0			
RH101D04-10-19796		11		I2-LRR	2	813	1467	E=0.0			
RH101D04-10-19796		11		I2-LRR	3	3253	3297	E=8.05086e-06			
RH101D04-3-10545		11		R3a-NBS	2	1	276	E=1.19293e-152		1	
RH101D04-3-10545		11		I2-LRR	2	277	980	E=0.0			
RH101D04-6-21414		11		I2-CC	2	308	472	E=7.95928e-71		1	
RH101D04-6-21414		11		R3a-NBS	2	473	860	E=0.0			
RH101D04-6-21414		11		R3a-LRR	2	861	1012	E=6.26661e-64			
RH101D04-6-21414		11		Rpp5-TIR	2	1266	1345	E=0.0393914		1	
RH101D04-6-21414		11		R3a-LRR	1	2475	3038	E=0.0			
RH101D04-7-18378		11		Rpi-blb1-CC	2	332	490	E=2.69742e-07		1	
RH101D04-7-18378		11		LR1-NBS	2	472	1158	E=5.19996e-69			
RH101D04-7-18378		11		I2-LRR	2	852	1556	E=0.0			
RH101D04-7-18378		11		R3a-CC	2	2897	3063	E=5.12784e-61		1	
RH101D04-7-18378		11		I2-NBS	2	3064	3452	E=0.0			
RH101D04-7-18378		11		Rp1D-LRR	2	3483	3709	E=1.17384e-21			
RH101D04-7-18378		11		Rpp1-LRR	2	3820	4115	E=3.41925e-07			
RH101D04-7-18378		11		I2-LRR	3	4406	4466	E=2.81116e-09			
RH156J02-2-5915	AC240038	11		R3a-LRR	-1	1	384	E=2.03135e-122	RGH-SSR41 (SH)	1	
Xif-TNL	RH036B12-10-14795	AC239976	11	82-83	Bs4-TIR	-1	1298	1387	E=2.70474e-31	BACend tool	1
	RH036B12-10-14795		11	82-83	Bs4-TIR	-3	1366	1391	E=0.00108906		
	RH036B12-10-14795		11	82-83	Y-1-NBS	-1	1547	1771	E=2.98379e-57		
	RH036B12-10-14795		11	82-83	Bs4-LRR	-3	2423	2450	E=0.0240863		
	RH036B12-10-14795		11	82-83	N-NL-LRR	-1	2539	2744	E=2.40909e-50		
	RH036B12-10-14795		11	82-83	Y-1-LRR	-2	2715	2943	E=5.78103e-47		

RH036B12-10-14795		11	82-83	Bs4-CNL	-2	2890	2982	E=2.92584e-15		
RH036B12-10-14795		11	82-83	N-Nt-CNL	-1	2958	3076	E=9.54235e-27		
RH036B12-6-4495		11	82-83	Bs4-LRR	-3	882	1018	E=1.25239e-13		1
RH036B12-6-4495		11	82-83	Y-1-LRR	-2	1017	1082	E=1.48295e-20		
RH036B12-6-4495		11	82-83	N-Nt-CNL	-1	1083	1136	E=8.2546e-09		
RH036B12-9-16273		11	82-83	Bs4-LRR	-1	2501	2552	E=9.0557e-10		1
RH036B12-9-16273		11	82-83	Y-1-LRR	-3	2556	2592	E=0.00881259		
RH063B11-10-4302		11	82-83	Bs4-TIR	-3	1136	1225	E=2.70474e-31	NBS profiling	1
RH063B11-10-4302		11	82-83	Bs4-TIR	-2	1208	1233	E=0.00108906		
RH063B11-10-4302		11	82-83	N-Nt-NBS	-1	1317	1347	E=0.0238044		
RH063B11-17-9759		11	82-83	Bs4-LRR	-3	2526	2662	E=1.24199e-13		1
RH063B11-17-9759		11	82-83	Y-1-LRR	-2	2648	2713	E=1.63912e-20		
RH063B11-17-9759		11	82-83	N-Nt-CNL	-1	2704	2757	E=7.34455e-09		
RH063B11-3-8726		11	82-83	Y-1-NBS	-2	1	131	E=4.46027e-23		1
RH063B11-3-8726		11	82-83	Bs4-NBS	-1	131	185	E=2.6258e-11		
RH063B11-3-8726		11	82-83	Bs4-LRR	-1	811	838	E=0.0272976		
RH063B11-3-8726		11	82-83	N-Nt-LRR	-2	899	1104	E=3.65625e-50		
RH063B11-3-8726		11	82-83	Y-1-LRR	-3	1098	1326	E=5.97723e-47		
RH063B11-3-8726		11	82-83	Bs4-CNL	-3	1273	1365	E=2.56019e-15		
RH063B11-3-8726		11	82-83	N-Nt-CNL	-2	1318	1436	E=1.25671e-26		
RH063B11-5-10568		11	82-83	Bs4-LRR	-1	2451	2502	E=8.83184e-10		1
RH063B11-5-10568		11	82-83	Y-1-LRR	-3	2502	2538	E=0.0084525		
RH196L18-1-21218	AC240064	11	82-83	Bs4-NBS	2	1	70	E=2.49107e-20	potato physical map/BACend tool	1
RH196L18-1-21218		11	82-83	Bs4-LRR	3	238	289	E=6.69446e-16		
RH196L18-1-21218		11	82-83	N-Nt-LRR	1	327	739	E=5.97274e-84		
RH196L18-1-21218		11	82-83	N-Nt-CNL	1	740	897	E=5.99913e-45		
RH196L18-1-21218		11	82-83	N-Nt-CNL	2	6172	6223	E=6.53672e-08		
RH196L18-14-1850		11	82-83	Bs4-TIR	-3	236	393	E=2.93566e-65		1
RH196L18-14-1850		11	82-83	Y-1-NBS	-1	456	572	E=8.37034e-39		
RH196L18-6-6651		11	82-83	Bs4-LRR	-2	567	645	E=5.85105e-20		1
RH143D14-1-34165	AC232094	11		Bs4-TIR	-1	6495	6650	E=2.93311e-68	BACend tool	1
RH143D14-1-34165		11		Bs4-NBS	-2	6750	6938	E=2.5109e-79		
RH143D14-1-34165		11		Bs4-NBS	-1	6955	7046	E=9.77032e-26		
RH143D14-1-34165		11		Y-1-LRR	-2	7167	7571	E=8.22102e-70		
RH143D14-1-34165		11		Bs4-CNL	-3	7520	7666	E=1.52132e-26		
RH143D14-3-50458		11		Y-1-LRR	-2	10240	10522	E=1.44788e-45		1
RH143D14-3-50458		11		Bs4-LRR	-1	10601	10633	E=0.00994635		
RH143D14-3-50458		11		Bs4-CNL	-2	11833	11966	E=2.86327e-32		
RH143D14-3-50458		11		Bs4-TIR	-2	14579	14610	E=5.21844e-09		1
XIIa-CNL										
RH139C15-13-13038	AC240021	12	1-7	R1-CC	-3	239	334	E=4.20217e-17	RGH-CAPS9	1
RH139C15-13-13038		12	1-7	R1-CC	-2	1170	1325	E=6.34255e-36		
RH139C15-7-14585		12	1-7	R1-CC	-2	534	1056	E=7.85305e-105		1
RH139C15-7-14585		12	1-7	R1-NBS	-2	1057	1269	E=3.14344e-87		
RH139C15-7-14585		12	1-7	R1-LRR	-1	1331	1696	E=4.09666e-63		
RH139C15-7-14585		12	1-7	R1-CC	-3	2573	2835	E=2.77908e-33		1
RH139C15-7-14585		12	1-7	Rx1-NBS	-2	3165	3469	E=2.64491e-68		
RH139C15-7-14585		12	1-7	R1-LRR	-2	3375	3863	E=1.24085e-96		
RH139C15-8-9533		12	1-7	R1-CC	-3	1311	1758	E=1.10217e-86		1
XIIb-CNL										
RH036D06-10-55277	AC237996	12	46-51	Xa1-NBS	-3	2	344	E=8.34912e-18	NBS blast	1
RH036D06-10-55277		12	46-51	Gpa2-LRR	-3	256	594	E=4.38412e-73		
RH036D06-10-55277		12	46-51	Gpa2-CC	-3	1914	1990	E=0.00481943		1
RH036D06-10-55277		12	46-51	Gpa2-NBS	-2	2324	2685	E=8.77773e-149		
RH036D06-10-55277		12	46-51	Rx1-LRR	-2	2666	3099	E=1.89896e-104		
RH036D06-10-55277		12	46-51	Rx1-CC	-2	3606	3772	E=2.17196e-31		1
RH036D06-10-55277		12	46-51	Sw-5-NBS	-2	3750	4123	E=2.24922e-65		
RH036D06-10-55277		12	46-51	Rx1-LRR	-1	3997	4316	E=7.35497e-67		
RH036D06-10-55277		12	46-51	Gpa2-CC	-1	6317	6339	E=0.769434		1
RH036D06-10-55277		12	46-51	Rx1-CC	-3	6506	6582	E=4.99446e-08		
RH036D06-10-55277		12	46-51	Gpa2-NBS	-3	6556	6847	E=1.46245e-114		
RH036D06-10-55277		12	46-51	Tm2-LRR	-1	6746	6798	E=0.00330231		
RH036D06-10-55277		12	46-51	Rps2-LRR	-3	8418	8533	E=0.0206304		
RH036D06-10-55277		12	46-51	Rpp1-LRR	2	8501	8718	E=1.56066e-07		
RH036D06-7-5974		12	46-51	Rx1-CC	2	520	738	E=3.16167e-31		1
RH036D06-7-5974		12	46-51	Gpa2-NBS	2	710	1068	E=2.92631e-139		
RH036D06-7-5974		12	46-51	Rx1-LRR	2	1052	1438	E=2.96728e-61		
RH036D06-7-5974		12	46-51	Gpa2-LRR	3	1327	1522	E=1.38707e-42		
RH036D06-9-5650		12	46-51	Rx1-CC	-1	1453	1671	E=1.05979e-31		1
RH036D06-9-5650		12	46-51	Gpa2-NBS	-1	1643	1788	E=2.78395e-52		
RH135M18-1-6128	AC237865	12	46-51	Rx1-CC	1	524	742	E=3.24181e-31	BACend tool	1
RH135M18-1-6128		12	46-51	Gpa2-NBS	1	714	1072	E=2.02712e-139		
RH135M18-1-6128		12	46-51	Rx1-LRR	1	1056	1442	E=3.33496e-61		
RH135M18-1-6128		12	46-51	Gpa2-LRR	2	1331	1526	E=2.17658e-42		
RH135M18-5-33417		12	46-51	Rx1-CC	1	1437	1655	E=1.025e-31		1
RH135M18-5-33417		12	46-51	Gpa2-NBS	1	1627	1985	E=1.26971e-141		
RH135M18-5-33417		12	46-51	Gpa2-LRR	1	2039	2377	E=3.3568e-73		
RH135M18-5-33417		12	46-51	Gpa2-NBS	3	4049	4410	E=1.24616e-148		1
RH135M18-5-33417		12	46-51	Rx1-LRR	3	4391	4824	E=1.89896e-104		
RH135M18-5-33417		12	46-51	Rx1-CC	3	5331	5497	E=2.17196e-31		1
RH135M18-5-33417		12	46-51	Sw-5-NBS	3	5475	5848	E=2.74789e-65		
RH135M18-5-33417		12	46-51	Rx1-LRR	2	5751	6070	E=1.00151e-66		
RH135M18-5-33417		12	46-51	Gpa2-CC	2	8071	8093	E=0.725782		1
RH135M18-5-33417		12	46-51	Gpa2-NBS	2	8471	8557	E=6.68414e-24		
RH005A19-2-18388	AC237914	12	46-51	Rx1-CC	3	3719	3751	E=8.03594e-08	RGH-SSR2 (SH)	1
RH005A19-2-18388		12	46-51	Gpa2-LRR	1	3827	3874	E=1.28793e-10		
RH005A19-5-31243		12	46-51	Rx1-CC	3	7567	7737	E=6.50556e-46		1
RH005A19-5-31243		12	46-51	Gpa2-NBS	3	7709	8061	E=2.01132e-166		
RH005A19-5-31243		12	46-51	Rx1-LRR	3	8042	8428	E=2.74926e-94		
RH005A19-6-31339		12	46-51	Bs2-firsthalf	-2	3975	4463	E=0.0		1
RH005A19-6-31339		12	46-51	Bs2-LRR	-1	4493	4668	E=4.22057e-32		
RH005A19-6-31339		12	46-51	Hero-LRR	-2	4776	4913	E=1.04892e-09		
RH005A19-6-31339		12	46-51	Rx1-CC	-2	6827	7006	E=1.6756e-05		1
RH005A19-6-31339		12	46-51	Gpa2-NBS	-2	6979	7329	E=9.13428e-98		
RH005A19-6-31339		12	46-51	Bs2-LRR	-2	7365	7719	E=3.67153e-81		
RH163C24-2-67408	AC238314	12	46-51	Gpa2-NBS	1	15674	16025	E=3.00551e-162	potato physical map/BACend tool	1
RH163C24-2-67408		12	46-51	Rx1-LRR	1	16006	16397	E=4.06465e-98		
RH163C24-2-67408		12	46-51	Gpa2-CC	2	18887	18932	E=2.30598e-13		1
RH163C24-2-67408		12	46-51	Gpa2-LRR	3	19015	19106	E=7.14861e-27		
RH163C24-4-33809		12	46-51	Bs2-firsthalf	-3	3843	4012	E=1.27011e-41		1

	RH163C24-4-33809		12	46-51	Mi-1-LRR	-1	4017	4222	E=3.01819e-16		
	RH163C24-4-33809		12	46-51	Bs2-firsthalf	-1	4965	5457	E=2.18407e-157		1
	RH163C24-4-33809		12	46-51	Bs2-LRR	-1	5503	5857	E=2.83475e-81		
	RH153N17-4-48875	AC238291	12	46-51	Rx1-CC	-2	4468	4634	E=3.61695e-85	potato physical map/BACend tool	1
	RH153N17-4-48875		12	46-51	Gpa2-NBS	-2	4606	4959	E=0.0		
	RH153N17-4-48875		12	46-51	Gpa2-LRR	-2	4960	5331	E=1.06085e-161		
	RH153N17-7-8320		12	46-51	Rx1-CC	-3	997	1163	E=2.08718e-82		1
	RH153N17-7-8320		12	46-51	Gpa2-NBS	-3	1135	1488	E=0.0		
	RH153N17-7-8320		12	46-51	Rx1-LRR	-3	1469	1889	E=0.0		
	RH192P22-2-18934	AC238387	12	46-51	Rx1-CC	-1	4843	5009	E=4.00017e-83	RGH-SSR48 (SH)	1
	RH192P22-2-18934		12	46-51	Gpa2-NBS	-1	4981	5051	E=3.3077e-33		
	RH192P22-2-18934		12	46-51	Gpa2-NBS	-2	5145	5428	E=2.96178e-155		
	RH192P22-2-18934		12	46-51	Rx1-LRR	-2	5409	5834	E=0.0		
	RH192P22-3-19859		12	46-51	Gpa2-CC	-2	363	391	E=6.88543e-10		1
	RH192P22-6-6024		12	46-51	Rx1-CC	-2	1067	1233	E=2.44644e-81		1
	RH192P22-6-6024		12	46-51	Gpa2-NBS	-2	1205	1558	E=0.0		
	RH192P22-6-6024		12	46-51	Gpa2-LRR	-2	1559	1943	E=5.35044e-163		
Xilc-TNL	RH192G12-1-26265	AC238386	12		Bs4-TIR	-3	5574	5733	E=1.68669e-77	marker blast (T1263)	1
	RH192G12-1-26265		12		Bs4-NBS	-3	5774	6131	E=1.63193e-155		
	RH192G12-1-26265		12		N-Nt-LRR	-1	6355	6452	E=4.66557e-15		
	RH192G12-1-26265		12		N-Nt-LRR	-3	6453	6738	E=5.65808e-98		
	RH192G12-1-26265		12		N-Nt-CNL	-3	6860	7047	E=5.3934e-38		
no lg	RH025O01-5-38763	AC237832			Bs4-TIR	2	8285	8443	E=7.78338e-69		1
	RH025O01-5-38763				Bs4-NBS	2	8500	8867	E=2.67689e-146		
	RH025O01-5-38763				N-Nt-LRR	3	8976	9077	E=1.92663e-15		
	RH025O01-5-38763				Y-1-LRR	2	9279	9669	E=8.88731e-89		
	RH025O01-5-38763				N-Nt-CNL	2	9611	9762	E=1.85261e-40		
	RH055N16-2-33873	AC237840			Rpi-blb2-LRR	-3	851	911	E=3.45225e-13		1
	RH055N16-2-33873				CaMi-CC	-3	4914	5268	E=4.4227e-135		1
	RH055N16-2-33873				Rpi-blb2-NBS	-3	5259	5609	E=6.51589e-155		
	RH055N16-2-33873				Rpi-blb2-LRR	-2	5468	5740	E=1.59498e-115		
	RH055N16-2-33873				Mi-1-LRR	-1	7137	7320	E=1.37783e-73		
	RH055N16-3-46067				Rpi-blb2-NBS	-3	4556	4607	E=4.38823e-22		1
	RH055N16-3-46067				Rpi-blb2-NBS	-2	4591	4916	E=3.78408e-130		
	RH055N16-3-46067				Mi-1-LRR	-2	4917	5276	E=6.30226e-153		
	RH055N16-3-46067				Rpi-blb2-CC	-3	13930	14429	E=0.0		1
	RH069O02-1-71837	AC237848			Rpi-blb2-NBS	2	6495	6820	E=3.75264e-130		1
	RH069O02-1-71837				Mi-1-LRR	2	6821	7180	E=4.29347e-153		
	RH069O02-1-71837				CaMi-CC	3	15817	16384	E=0.0		1
	RH069O02-1-71837				Rpi-blb2-NBS	3	16375	16722	E=1.55494e-147		
	RH069O02-1-71837				Rpi-blb2-LRR	3	16723	16891	E=9.23658e-72		
	RH069O02-1-71837				Rpi-blb2-CC	1	17835	18142	E=1.81286e-103		1
	RH069O02-1-71837				Rpi-blb2-CC	2	18261	18696	E=0.0		
	RH069O02-1-71837				Rpi-blb2-NBS	1	18719	18872	E=1.81304e-49		
	RH069O02-1-71837				Hero-LRR	3	18966	19120	E=2.33473e-12		
	RH069O02-1-71837				Mi-1-LRR	1	19039	19202	E=1.65881e-66		
	RH069O02-2-34265				Rpi-blb2-CC	3	1901	2083	E=1.70291e-31		1
	RH069O02-2-34265				Rpi-blb2-NBS	1	2064	2182	E=1.0096e-25		
	RH069O02-2-34265				Rpi-blb2-LRR	1	2183	2365	E=1.22913e-64		
	RH069O02-2-34265				Mi-1-LRR	3	2345	2521	E=6.42814e-56		
	RH069O02-2-34265				CaMi-CC	2	5383	5929	E=0.0		1
	RH069O02-2-34265				Rpi-blb2-NBS	2	5920	6270	E=2.27453e-159		
	RH069O02-2-34265				Mi-1-LRR	2	6272	6633	E=8.74379e-146		
	RH090J20-1-54900	AC237853			Sw-5-CC	-3	3252	3793	E=0.0		1
	RH090J20-1-54900				Sw-5-NBS	-3	3795	4164	E=1.53502e-174		
	RH090J20-1-54900				Sw-5-LRR	-3	4165	4508	E=2.94982e-82		
	RH105D06-3-72747	AC237857			Rps5-NBS	2	15656	15808	E=3.76734e-18		1
	RH106C02-22-1945	AC240009			R3a-LRR	-3	8	331	E=4.09712e-62		1
	RH106C02-8-2220				I2-CC	3	68	101	E=1.97769e-10		1
	RH106C02-8-2220				R3a-CC	3	68	105	E=1.8483e-12		
	RH106C02-8-2220				I2-CC	1	101	215	E=4.43603e-44		
	RH106C02-8-2220				R3a-NBS	1	216	406	E=3.47034e-95		
	RH106C02-8-2220				R3a-NBS	2	371	586	E=8.89898e-99		
	RH106C02-8-2220				R3a-LRR	2	587	704	E=7.03131e-41		
	RH120B09-2-28356	AC237859			Rx2-CC	1	4879	4965	E=7.03371e-07		1
	RH120B09-2-28356				Rx2-CC	2	4926	4973	E=6.04757e-10		
	RH120B09-2-28356				Gpa2-NBS	2	5061	5118	E=2.03529e-10		
	RH123J08-4-14604	AC236625			Gro1-4-TIR	-3	3780	3945	E=2.20094e-95		1
	RH123J08-4-14604				Gro1-4-NBS	-3	4112	4509	E=1.01279e-177		
	RH123J08-7-57902				Gro1-4-NBS	2	3645	4081	E=0.0		1
	RH123J08-7-57902				Gro1-4-LRR	2	4082	4647	E=0.0		
	RH125J07-12-12157	AC240013			I2-CC	2	2472	2636	E=2.13412e-64		1
	RH125J07-12-12157				I2-NBS	2	2639	3016	E=1.89784e-146		
	RH125J07-12-12157				I2-LRR	2	3017	3732	E=0.0		
	RH127M01-1-79879	AC237861			CaMi-CC	-3	17042	17286	E=4.63314e-61		1
	RH127M01-1-79879				Rpi-blb2-CC	-2	17319	17570	E=6.64964e-81		
	RH127M01-1-79879				Rpi-blb2-NBS	-1	17462	17674	E=2.05344e-80		
	RH127M01-1-79879				Rpi-blb2-NBS	-3	17715	17816	E=3.85184e-40		
	RH127M01-1-79879				Mi-1-LRR	-3	17818	18166	E=1.76181e-146		
	RH127M01-1-79879				Mi-1-LRR	-2	18917	18971	E=3.78081e-16		
	RH130M06-1-42126	AC237862			Rx2-CC	-1	2766	2930	E=2.18889e-33		1
	RH130M06-1-42126				Gpa2-NBS	-1	2902	3261	E=3.68145e-153		
	RH130M06-1-42126				Gpa2-LRR	-2	3618	3846	E=1.57018e-46		
	RH130M06-1-42126				Gpa2-LRR	-3	3824	3951	E=3.71269e-42		
	RH130M06-1-42126				Rx2-LRR	2	7852	8054	E=2.95117e-51		
	RH130M06-1-42126				Rx2-NBS	3	11309	11331	E=0.00292976		1
	RH130M06-1-42126				Gpa2-CC	2	11400	11466	E=1.57006e-15		1
	RH130M06-1-42126				Rx2-NBS	1	11452	11496	E=0.000102359		
	RH133D07-1-36922				Dm3-LRR	1	10809	10974	E=3.7752e-07		
	RH137K16-1-31661	AC237866			Rx2-CC	-3	9586	9752	E=3.86999e-82		1
	RH137K16-1-31661				Gpa2-NBS	-3	9724	9817	E=6.21459e-45		
	RH137K16-2-16656				Gpa2-LRR	-1	1	385	E=5.90361e-169		
	RH137K16-2-16656				Bs2-LRR	-3	696	835	E=2.79061e-20		
	RH137K16-2-16656				Rx2-CC	-1	1343	1512	E=1.07046e-54		1
	RH137K16-2-16656				Gpa2-NBS	-1	1484	1841	E=4.96267e-159		
	RH137K16-2-16656				R1-LRR	-1	1727	2227	E=1.32744e-36		
	RH137K16-2-16656				Rx2-CC	-3	4572	4738	E=7.86538e-82		1
	RH137K16-2-16656				Gpa2-NBS	-3	4710	5063	E=0.0		

RH137K16-2-16656		Rx2-LRR	-3	5044	5302	E=7.30986e-117	
RH137K16-3-2037		Gpa2-LRR	-3	534	643	E=3.0644e-42	
RH141A04-1-38590	AC232092	Rx2-LRR	-2	1803	2005	E=3.12867e-51	1
RH141A04-1-38590		Rx2-NBS	-1	5216	5238	E=0.00281005	1
RH141A04-1-38590		Gpa2-CC	-3	5344	5410	E=1.33988e-15	1
RH141A04-1-38590		Rx2-NBS	-2	5417	5461	E=9.49541e-05	
RH141A04-1-38590		Rx2-CC	1	7691	7855	E=2.18889e-33	1
RH141A04-1-38590		Gpa2-NBS	1	7827	8186	E=3.68145e-153	
RH141A04-1-38590		R1-LRR	1	8072	8189	E=1.24894e-16	
RH141A04-1-38590		Gpa2-LRR	2	8578	8806	E=1.79444e-46	
RH141A04-1-38590		Gpa2-LRR	3	8720	8847	E=3.71269e-42	
RH145B06-3-64546	AC240124	Sw-5-LRR	-1	4473	4775	E=9.0553e-41	1
RH145B06-3-64546		Sw-5-CC	1	10952	11018	E=0.000412409	1
RH145B06-3-64546		Sw-5-CC	3	11017	11115	E=1.02016e-16	
RH148B08-1-1415	AC238273	R3a-NBS	-2	1	161	E=6.23824e-58	1
RH148B08-1-1415		R3a-LRR	-2	162	471	E=9.2664e-125	
RH148B08-3-47461		R3a-CC	-1	5355	5393	E=8.03128e-10	1
RH148B08-3-47461		I2-CC	-2	13015	13177	E=1.23616e-48	
RH148B08-3-47461		R3a-NBS	-2	13178	13561	E=5.49853e-148	
RH148B08-3-47461		R3a-LRR	-2	13562	14041	E=1.10339e-155	
RH148B08-5-4294		I2-LRR	-1	1	274	E=1.97586e-74	1
RH148B08-5-4294		I2-CC	-3	622	714	E=8.27539e-23	1
RH148B08-7-2418		I2-CC	-3	509	675	E=5.36361e-51	
RH148B08-7-2418		R3a-NBS	-3	676	755	E=1.50945e-31	
RH148D21-3-111482	AC237872	Y-1-LRR	2	4581	4670	E=3.31807e-05	1
RH150H11-1-16301	AC240032	Dm3-NBS	3	2562	2875	E=4.07543e-46	1
RH150H11-1-16301		Rpm1-LRR	3	2948	3065	E=0.00209216	
RH150H11-1-16301		Dm3-LRR	3	3418	3535	E=1.63899e-07	
RH150H11-1-16301		Dm3-LRR	-2	4697	5016	E=3.93603e-07	
RH150H11-10-7691		Dm3-LRR	1	1511	1612	E=4.38698e-07	1
RH150H11-2-4845		Dm3-LRR	-1	177	278	E=6.82881e-06	1
RH150H11-3-7336		Dm3-LRR	-3	1708	1827	E=6.33479e-06	1
RH150H11-3-7336		Rps2-LRR	-2	1842	2010	E=5.89465e-07	
RH150H11-7-18936		Rps2-LRR	3	349	443	E=0.0116005	1
RH150H11-7-18936		Dm3-LRR	1	510	655	E=3.35705e-09	
RH165K04-1-32230	AC232110	Sw-5-NBS	-2	2	268	E=1.49814e-114	1
RH165K04-1-32230		Sw-5-LRR	-3	319	610	E=2.00668e-87	
RH165K04-1-32230		Sw-5-CC	-1	4430	4971	E=0.0	1
RH165K04-1-32230		Rpi-blb2-NBS	-1	4988	5328	E=1.46318e-69	
RH165K04-1-32230		Sw-5-LRR	-1	5343	5668	E=3.47141e-96	
RH165K04-1-32230		CaMi-CC	-1	9365	9753	E=1.03702e-15	1
RH165K04-1-32230		Sw-5-NBS	-1	9729	10098	E=2.23449e-174	
RH165K04-2-12366		Lr10-NBS	-3	2	82	E=8.74821e-10	1
RH165K04-2-12366		Sw-5-LRR	-3	126	452	E=4.27535e-97	
RH165K04-2-12366		Sw-5-CC	-1	3107	3642	E=0.0	1
RH165K04-2-12366		Sw-5-NBS	-1	3644	3761	E=1.2282e-51	
RH165K04-2-12366		Sw-5-NBS	-3	3749	3895	E=2.17224e-70	
RH174E07-2-5093	AC232116	R3a-NBS	2	1	154	E=1.7433e-81	1
RH174E07-2-5093		PM3b-LRR	2	206	285	E=2.77263e-10	
RH174E07-2-5093		R3a-LRR	2	1462	1615	E=9.17726e-72	
RH174E07-4-11261		R3a-LRR	-2	741	972	E=1.34476e-77	1
RH174E07-5-11656		I2-CC	-1	901	1067	E=9.18289e-67	1
RH174E07-5-11656		I2-NBS	-1	1068	1454	E=0.0	
RH174E07-5-11656		I2-LRR	-1	1455	2139	E=0.0	
RH174E07-6-22517		R3a-CC	2	950	1109	E=4.3049e-60	1
RH174E07-6-22517		R3a-NBS	2	1110	1491	E=1.47167e-176	
RH174E07-6-22517		I2-LRR	2	1492	2203	E=0.0	
RH174E07-6-22517		R3a-CC	1	4884	5011	E=4.20579e-54	1
RH174E07-6-22517		R3a-NBS	1	6192	6540	E=0.0	
RH174E07-6-22517		R3a-LRR	1	6542	6738	E=2.34855e-82	
RH174E07-7-37242		R3a-LRR	-1	6863	6949	E=5.62933e-31	1
RH174E07-7-37242		I2-LRR	-2	7045	7123	E=2.50906e-27	
RH174E07-7-37242		R3a-CC	-2	7928	8094	E=8.14411e-77	1
RH174E07-7-37242		R3a-NBS	-2	8095	8212	E=8.14503e-59	
RH174E07-7-37242		R3a-NBS	-1	8101	8227	E=5.31906e-61	
RH174E07-7-37242		R3a-NBS	-3	8167	8273	E=2.16767e-49	
RH174E07-7-37242		I2-LRR	-3	8274	8694	E=3.17113e-169	
RH174E07-8-2036		R3a-LRR	-2	593	646	E=1.71361e-18	1
RH174K15-1-31065		Bs4-LRR	3	3934	4037	E=4.56595e-12	1
RH174K15-1-31065		N-Nt-NBS	-3	6738	6782	E=1.26039e-08	
RH174K15-1-31065		Bs4-NBS	-2	6800	7179	E=2.43114e-104	
RH174K15-1-31065		Y-1-LRR	-2	7199	7618	E=9.03948e-88	
RH174K15-1-31065		N-Nt-CNl	-2	7574	7696	E=8.316e-41	
RH175H08-4-28454	AC240050	I2-LRR	-3	2	438	E=1.65242e-115	1
RH175H08-6-12128		I2-CC	3	3339	3496	E=2.00038e-57	1
RH175H08-6-12128		R3a-NBS	3	3497	3791	E=1.35827e-136	
RH177I17-3-6997	AC237883	N-Nt-LRR	-3	346	557	E=4.63964e-63	1
RH177I17-3-6997		Y-1-LRR	-2	558	831	E=2.49256e-42	
RH177I17-3-6997		N-Nt-CNl	-1	789	951	E=4.93757e-26	
RH177I17-5-37144		Y-1-TIR	1	1017	1175	E=8.40615e-72	1
RH177I17-5-37144		Y-1-NBS	3	1245	1592	E=3.5191e-121	
RH177I17-5-37144		Bs4-LRR	1	1821	1875	E=2.63175e-13	
RH177I17-5-37144		Y-1-LRR	2	2315	2681	E=9.83114e-115	
RH177I17-5-37144		N-Nt-CNl	2	2629	2789	E=3.95625e-42	
RH177I17-5-37144		Bs4-TIR	3	6682	6733	E=1.12439e-08	1
RH177I17-5-37144		N-Lu-TIR	1	8936	9087	E=1.18311e-28	
RH177I17-5-37144		Y-1-NBS	1	9142	9489	E=1.59289e-121	
RH177I17-5-37144		Y-1-LRR	3	10385	10811	E=2.30659e-108	
RH177I17-5-37144		N-Nt-CNl	3	10763	10923	E=2.86314e-35	
RH177I17-6-38112		Bs4-CNl	3	2102	2187	E=1.13901e-17	1
RH177I17-6-38112		Bs4-TIR	3	4141	4302	E=2.35358e-79	1
RH177I17-6-38112		Bs4-NBS	1	4351	4717	E=3.08305e-148	
RH177I17-6-38112		Gro1-4-NBS	3	4757	4847	E=1.00389e-06	
RH177I17-6-38112		N-Nt-LRR	3	4884	5192	E=1.93522e-86	
RH177I17-6-38112		Y-1-LRR	2	5387	5506	E=1.00531e-37	
RH177I17-6-38112		N-Nt-CNl	2	5458	5622	E=2.19033e-38	
RH177I17-6-38112		N-Nt-NBS	3	8893	8960	E=4.58049e-18	1
RH177I17-6-38112		Bs4-NBS	2	9082	9152	E=3.49014e-08	

RH177117-6-38112		N-Nt-LRR	2	9113	9214	E=1.4756e-14	
RH177117-6-38112		Y-1-LRR	1	9385	9756	E=3.7315e-118	
RH177117-6-38112		Bs4-CNL	1	9700	9830	E=4.27487e-31	
RH183M06-1-19075		Bs4-NBS	3	903	1000	E=1.88493e-32	1
RH183M06-2-21105		Bs4-TIR	2	4084	4190	E=1.26253e-40	1
RH183M06-2-21105		Bs4-NBS	2	4241	4417	E=9.98544e-66	
RH183M06-2-21105		Bs4-NBS	1	4407	4487	E=1.65752e-15	
RH186O03-7-46151	AC237891	Bs4-TIR	3	10872	11030	E=1.30567e-68	1
RH186O03-7-46151		Bs4-NBS	3	11087	11454	E=4.4532e-146	
RH186O03-7-46151		N-Nt-LRR	1	11703	11804	E=1.879e-15	
RH186O03-7-46151		Y-1-LRR	3	11866	12256	E=8.81346e-89	
RH186O03-7-46151		R1-CC	-1	11915	11968	E=1.827e-12	1
RH186O03-7-46151		N-Nt-CNL	3	12198	12349	E=2.2074e-40	1
RH194N09-4-23166		Gro1-4-TIR	-2	1958	2054	E=5.57051e-29	1
RH194N09-4-23166		Bs4-NBS	-3	2273	2594	E=2.41599e-68	
RH194N09-4-23166		Gro1-4-TIR	3	3763	3902	E=2.83798e-24	1
RH194N09-6-40644		N-Nt-NBS	-3	711	1059	E=3.92323e-63	
RH194N09-6-40644		Gro1-4-TIR	-1	1202	1318	E=9.40379e-36	1
RH194N09-6-40644		Bs4-NBS	-2	1995	2324	E=1.77016e-76	
RH194N09-6-40644		Bs4-LRR	-1	3784	3837	E=9.13952e-07	
RH194N09-6-40644		Gro1-4-LRR	-3	3910	4313	E=1.27583e-45	
RH194N09-6-40644		N-Nt-CNL	-3	4274	4411	E=3.03554e-06	
RH194N09-6-40644		Bs4-NBS	-1	4733	4870	E=4.00806e-20	1
RH194N09-6-40644		Gro1-4-LRR	-2	5700	6103	E=2.13588e-52	
RH94J12-2-12356		Y-1-CNL	2	2236	2268	E=2.05128e-07	1
RH94J12-2-12356		Y-1-TIR	3	2815	2841	E=0.0458814	1
RH94J12-3-49244		Y-1-LRR	-3	4358	4497	E=5.20787e-33	1
RH94J12-3-49244		Bs4-LRR	-1	4477	4516	E=7.73707e-06	
RH94J12-3-49244		N-Nt-CNL	-1	4502	4621	E=1.3419e-30	
RH94J12-3-49244		N-Nt-NBS	1	4920	5073	E=1.53795e-41	1
RH94J12-3-49244		Bs4-NBS	2	5057	5249	E=3.10967e-32	
RH94J12-3-49244		Y-1-LRR	3	5273	5617	E=2.21505e-75	
RH94J12-3-49244		N-Nt-CNL	3	5572	5662	E=2.53439e-24	
RH94J12-3-49244		N-Nt-CNL	2	5676	5736	E=2.569e-06	
RH94J12-3-49244		Bs4-LRR	-2	11445	11548	E=4.96327e-12	1
RH94J12-4-47074		N-Nt-NBS	3	68	175	E=1.39951e-21	1
RH94J12-4-47074		N-Nt-NBS	1	2829	3071	E=3.70364e-89	
RH94J12-4-47074		Bs4-LRR	2	3142	3186	E=2.10334e-09	
RH94J12-4-47074		Y-1-LRR	1	3246	3609	E=1.28072e-94	
RH94J12-4-47074		N-Nt-CNL	1	3564	3688	E=2.7186e-41	
RH94J12-4-47074		N-Nt-LRR	-1	7427	7501	E=3.34357e-13	1

total (partial) RGH: 738