

Appendix B Chrome location of TaLTPs

Locus ID	Name	chrome	Start (bp)	End (bp)	Lacation (bp)
TraesCSU01G147100.1	TaLTP1.70	chrUn	168641413	168641760	168641586.5
TraesCSU01G251500.1	TaLTP1.77	chrUn	386578210	386578557	386578383.5
TraesCS3B01G064100.1	TaLTP1.31	chr3B	35773382	35773729	35773555.5
TraesCS3B01G063700.1	TaLTP1.27	chr3B	35701446	35701793	35701619.5
TraesCS3B01G063000.1	TaLTP1.20	chr3B	35212403	35212750	35212576.5
TraesCS3B01G063100.1	TaLTP1.21	chr3B	35288587	35288934	35288760.5
TraesCS3B01G063900.1	TaLTP1.29	chr3B	35754310	35755107	35754708.5
TraesCS3B01G064200.1	TaLTP1.32	chr3B	35823275	35838529	35830902
TraesCSU01G258000.1	TaLTP1.79	chrUn	401347004	401347682	401347343
TraesCSU01G147300.1	TaLTP1.72	chrUn	168709387	168709734	168709560.5
TraesCS3B01G064300.1	TaLTP1.33	chr3B	35837851	35838198	35838024.5
TraesCS3B01G064400.1	TaLTP1.34	chr3B	35839101	35839820	35839460.5
TraesCSU01G056700.1	TaLTP1.64	chrUn	43664724	43665176	43664950
TraesCSU01G056900.1	TaLTP1.65	chrUn	43770507	43770854	43770680.5
TraesCS3D01G051900.1	TaLTP1.37	chr3D	21204149	21204469	21204309
TraesCSU01G057300.1	TaLTP1.69	chrUn	44529121	44529417	44529269
TraesCSU01G057200.1	TaLTP1.68	chrUn	44500426	44500722	44500574
TraesCSU01G057000.1	TaLTP1.66	chrUn	44271400	44271696	44271548
TraesCSU01G057100.1	TaLTP1.67	chrUn	44297234	44297530	44297382
TraesCSU01G056600.1	TaLTP1.63	chrUn	43650856	43651152	43651004
TraesCS3B01G062600.1	TaLTP1.16	chr3B	34466936	34467232	34467084
TraesCS3B01G062700.1	TaLTP1.17	chr3B	34522061	34522513	34522287
TraesCS3B01G063500.1	TaLTP1.25	chr3B	35640294	35640641	35640467.5
TraesCS3B01G063200.1	TaLTP1.22	chr3B	35461914	35462261	35462087.5
TraesCS3B01G063400.1	TaLTP1.24	chr3B	35574124	35574471	35574297.5
TraesCSU01G253500.1	TaLTP1.78	chrUn	390420707	390421054	390420880.5
TraesCSU01G237900.1	TaLTP1.76	chrUn	352901801	352902148	352901974.5
TraesCSU01G154200.1	TaLTP1.73	chrUn	202839683	202840030	202839856.5
TraesCSU01G147200.1	TaLTP1.71	chrUn	168644994	168645341	168645167.5
TraesCS3B01G063600.1	TaLTP1.26	chr3B	35697822	35698169	35697995.5
TraesCS3B01G064000.1	TaLTP1.30	chr3B	35769759	35770106	35769932.5
TraesCS3B01G063300.1	TaLTP1.23	chr3B	35517977	35518273	35518125
TraesCS3B01G063800.1	TaLTP1.28	chr3B	35732236	35732532	35732384
TraesCSU01G176300.1	TaLTP1.74	chrUn	265761705	265762001	265761853
TraesCS3A01G053000.1	TaLTP1.11	chr3A	29048477	29049022	29048749.5
TraesCS3A01G053100.1	TaLTP1.12	chr3A	29351545	29352062	29351803.5
TraesCS3D01G052100.1	TaLTP1.38	chr3D	21328598	21329050	21328824
TraesCSU01G213500.1	TaLTP1.75	chrUn	316645401	316645748	316645574.5
TraesCS3B01G062800.1	TaLTP1.18	chr3B	35037705	35038052	35037878.5
TraesCS3B01G062900.1	TaLTP1.19	chr3B	35119171	35119518	35119344.5
TraesCS3A01G053200.1	TaLTP1.13	chr3A	29724499	29724843	29724671
TraesCS4B01G121000.1	TaLTP1.44	chr4B	142674471	142675651	142675061

TraesCS4A01G194300.1	TaLTP1.41	chr4A	476142148	476142510	476142329
TraesCS4D01G119000.1	TaLTP1.47	chr4D	100336137	100336499	100336318
TraesCS4B01G120900.1	TaLTP1.43	chr4B	142541428	142541912	142541670
TraesCS4A01G194400.1	TaLTP1.42	chr4A	476145519	476146036	476145777.5
TraesCS4D01G118900.1	TaLTP1.46	chr4D	100319858	100320368	100320113
TraesCS5B01G145900.1	TaLTP1.50	chr5B	273146678	273147794	273147236
TraesCS5D01G145300.1	TaLTP1.56	chr5D	232011275	232012084	232011679.5
TraesCS2A01G477700.1	TaLTP1.4	chr2A	716549323	716549679	716549501
TraesCS2D01G476900.1	TaLTP1.10	chr2D	579064937	579065293	579065115
TraesCS2A01G477600.1	TaLTP1.3	chr2A	716544323	716544799	716544561
TraesCS2B01G501000.1	TaLTP1.8	chr2B	696080828	696081190	696081009
TraesCS2D01G476800.1	TaLTP1.9	chr2D	579060097	579060574	579060335.5
TraesCS2B01G500900.1	TaLTP1.7	chr2B	695992511	695992985	695992748
TraesCS2B01G500700.1	TaLTP1.5	chr2B	695928027	695928501	695928264
TraesCS2B01G500800.1	TaLTP1.6	chr2B	695964030	695964504	695964267
TraesCS5B01G146000.1	TaLTP1.51	chr5B	273458906	273459346	273459126
TraesCS5A01G147400.1	TaLTP1.48	chr5A	325184241	325184588	325184414.5
TraesCS5D01G145200.1	TaLTP1.55	chr5D	231788218	231788670	231788444
TraesCS4B01G382200.1	TaLTP1.45	chr4B	661641797	661642258	661642027.5
TraesCS1A01G300300.1	TaLTP1.1	chr1A	495284357	495284829	495284593
TraesCS1B01G310400.1	TaLTP1.2	chr1B	533406182	533406642	533406412
TraesCS3A01G344700.1	TaLTP1.15	chr3A	594348786	594349754	594349270
TraesCS3B01G376700.1	TaLTP1.36	chr3B	592867387	592867840	592867613.5
TraesCS3D01G338300.1	TaLTP1.40	chr3D	451234200	451235096	451234648
TraesCS7D01G333300.1	TaLTP1.62	chr7D	424642681	424644915	424643798
TraesCS7A01G345900.1	TaLTP1.58	chr7A	508650558	508653697	508652127.5
TraesCS7B01G237300.1	TaLTP1.60	chr7B	442353337	442353699	442353518
TraesCS3D01G152900.1	TaLTP1.39	chr3D	119404001	119404521	119404261
TraesCS3A01G144200.1	TaLTP1.14	chr3A	126035274	126035793	126035533.5
TraesCS3B01G170800.1	TaLTP1.35	chr3B	171701279	171702110	171701694.5
TraesCS7B01G012800.1	TaLTP1.59	chr7B	8917091	8917597	8917344
TraesCS7D01G110800.1	TaLTP1.61	chr7D	66817931	66818437	66818184
TraesCS5B01G475800.1	TaLTP1.53	chr5B	648316276	648316775	648316525.5
TraesCS5B01G475900.1	TaLTP1.54	chr5B	648338360	648338919	648338639.5
TraesCS5B01G475500.1	TaLTP1.52	chr5B	648278280	648278860	648278570
TraesCS5A01G464100.1	TaLTP1.49	chr5A	643864608	643864991	643864799.5
TraesCS5D01G476800.1	TaLTP1.57	chr5D	515641574	515642061	515641817.5
TraesCS4B01G392800.1	TaLTP2.32	chr4B	667648682	667649238	667648960
TraesCS5B01G531100.1	TaLTP2.37	chr5B	689336940	689337218	689337079
TraesCSU01G033000.1	TaLTP2.41	chrUn	29818715	29819276	29818995.5
TraesCSU01G033800.1	TaLTP2.43	chrUn	29990008	29990530	29990269
TraesCSU01G033100.1	TaLTP2.42	chrUn	29841789	29842034	29841911.5
TraesCS5A01G554400.1	TaLTP2.36	chr5A	706289606	706290141	706289873.5
TraesCS5B01G531200.1	TaLTP2.38	chr5B	689340369	689340665	689340517
TraesCS4B01G393300.1	TaLTP2.33	chr4B	667855279	667855569	667855424

TraesCS5A01G554300.1	TaLTP2.35	chr5A	706270547	706271093	706270820
TraesCSU01G032900.1	TaLTP2.40	chrUn	29798529	29799033	29798781
TraesCS4B01G393400.1	TaLTP2.34	chr4B	667859023	667859307	667859165
TraesCSU01G032800.1	TaLTP2.39	chrUn	29789284	29789571	29789427.5
TraesCS3B01G022200.1	TaLTP2.28	chr3B	9427199	9427495	9427347
TraesCS3D01G023400.1	TaLTP2.30	chr3D	7430150	7430404	7430277
TraesCS1A01G175200.1	TaLTP2.2	chr1A	313161875	313162132	313162003.5
TraesCS1B01G189400.1	TaLTP2.8	chr1B	339364373	339364648	339364510.5
TraesCS1D01G163900.1	TaLTP2.15	chr1D	234528369	234528644	234528506.5
TraesCS1A01G175100.1	TaLTP2.1	chr1A	313006783	313007070	313006926.5
TraesCS1B01G188600.1	TaLTP2.7	chr1B	338430229	338430516	338430372.5
TraesCS1B01G189600.1	TaLTP2.9	chr1B	340367218	340367505	340367361.5
TraesCS1D01G164000.1	TaLTP2.16	chr1D	234656387	234656674	234656530.5
TraesCS2B01G537400.1	TaLTP2.23	chr2B	732839527	732839826	732839676.5
TraesCS2D01G510800.1	TaLTP2.25	chr2D	602635785	602636087	602635936
TraesCS2D01G536300.1	TaLTP2.26	chr2D	618868170	618868481	618868325.5
TraesCS2A01G534000.1	TaLTP2.22	chr2A	749854975	749855417	749855196
TraesCS2B01G564300.1	TaLTP2.24	chr2B	756156728	756157167	756156947.5
TraesCS3B01G294800.1	TaLTP2.29	chr3B	473691569	473691859	473691714
TraesCS3A01G261600.1	TaLTP2.27	chr3A	484634127	484634414	484634270.5
TraesCS3D01G261600.1	TaLTP2.31	chr3D	363593703	363593990	363593846.5
TraesCS1B01G394500.1	TaLTP2.12	chr1B	626601013	626601303	626601158
TraesCS1A01G374300.1	TaLTP2.4	chr1A	549666495	549666785	549666640
TraesCS1D01G381100.1	TaLTP2.18	chr1D	456199792	456200082	456199937
TraesCS1A01G374200.1	TaLTP2.3	chr1A	549637965	549638255	549638110
TraesCS1D01G380800.1	TaLTP2.17	chr1D	456132352	456133197	456132774.5
TraesCS1B01G394100.1	TaLTP2.10	chr1B	626506996	626507286	626507141
TraesCS1B01G394400.1	TaLTP2.11	chr1B	626595085	626595375	626595230
TraesCS1B01G394600.1	TaLTP2.13	chr1B	626610162	626610596	626610379
TraesCS1A01G374400.1	TaLTP2.5	chr1A	549670550	549671049	549670799.5
TraesCS1A01G374500.1	TaLTP2.6	chr1A	549695442	549695735	549695588.5
TraesCS1B01G394700.1	TaLTP2.14	chr1B	626649118	626649411	626649264.5
TraesCS1D01G381200.1	TaLTP2.19	chr1D	456203134	456203430	456203282
TraesCS1D01G381300.1	TaLTP2.20	chr1D	456251729	456252025	456251877
TraesCS1D01G381600.1	TaLTP2.21	chr1D	457033363	457033659	457033511
TraesCS5D01G319800.1	TaLTPc.3	chr5D	412360925	412361358	412361141.5
TraesCS5A01G313100.1	TaLTPc.1	chr5A	524240635	524241067	524240851
TraesCS5B01G314000.1	TaLTPc.2	chr5B	496521936	496522271	496522103.5
TraesCS7D01G270200.1	TaLTPc.6	chr7D	255968998	255969556	255969277
TraesCS7A01G269700.1	TaLTPc.4	chr7A	275916291	275916705	275916498
TraesCS7B01G167900.1	TaLTPc.5	chr7B	234590456	234590876	234590666
TraesCS2B01G460900.1	TaLTPd1.10	chr2B	654681164	654681481	654681322.5
TraesCS2B01G460800.1	TaLTPd1.9	chr2B	654652893	654653210	654653051.5
TraesCS2B01G461100.1	TaLTPd1.12	chr2B	654702996	654703313	654703154.5
TraesCSU01G169000.1	TaLTPd1.39	chrUn	248126327	248126644	248126485.5

TraesCS2A01G440300.1	TaLTPd1.1	chr2A	691116103	691116420	691116261.5
TraesCS2D01G438400.1	TaLTPd1.15	chr2D	547806114	547806431	547806272.5
TraesCS2D01G438500.1	TaLTPd1.16	chr2D	547951551	547951868	547951709.5
TraesCS2A01G440600.1	TaLTPd1.4	chr2A	691169089	691169406	691169247.5
TraesCS2D01G438200.1	TaLTPd1.13	chr2D	547774709	547775026	547774867.5
TraesCS2B01G460500.1	TaLTPd1.6	chr2B	654545867	654546184	654546025.5
TraesCS2B01G461000.1	TaLTPd1.11	chr2B	654699039	654699314	654699176.5
TraesCS2B01G460700.1	TaLTPd1.8	chr2B	654648916	654649233	654649074.5
TraesCSU01G168900.1	TaLTPd1.38	chrUn	248122351	248122668	248122509.5
TraesCS2D01G438300.1	TaLTPd1.14	chr2D	547790937	547791254	547791095.5
TraesCSU01G187200.1	TaLTPd1.40	chrUn	281905703	281906020	281905861.5
TraesCS2A01G440400.1	TaLTPd1.2	chr2A	691119884	691120745	691120314.5
TraesCS2A01G440500.1	TaLTPd1.3	chr2A	691140275	691140592	691140433.5
TraesCS2B01G460400.1	TaLTPd1.5	chr2B	654527414	654528049	654527731.5
TraesCS2B01G460600.1	TaLTPd1.7	chr2B	654588167	654588484	654588325.5
TraesCS5D01G082200.1	TaLTPd1.35	chr5D	84185677	84185994	84185835.5
TraesCS5A01G070400.1	TaLTPd1.29	chr5A	78480627	78480944	78480785.5
TraesCS5B01G076200.1	TaLTPd1.33	chr5B	91112112	91112429	91112270.5
TraesCS5A01G070300.1	TaLTPd1.28	chr5A	78474456	78474773	78474614.5
TraesCS5B01G076100.1	TaLTPd1.32	chr5B	91108881	91109198	91109039.5
TraesCS5D01G082100.1	TaLTPd1.34	chr5D	84178231	84178994	84178612.5
TraesCS5A01G070000.1	TaLTPd1.27	chr5A	78368981	78369310	78369145.5
TraesCS5B01G076000.1	TaLTPd1.31	chr5B	90988258	90989153	90988705.5
TraesCS7A01G126800.1	TaLTPd1.36	chr7A	81607073	81607384	81607228.5
TraesCS7B01G026200.1	TaLTPd1.37	chr7B	25403834	25404145	25403989.5
TraesCS4B01G323400.1	TaLTPd1.25	chr4B	613905713	613906024	613905868.5
TraesCS4D01G319600.1	TaLTPd1.26	chr4D	483179528	483179791	483179659.5
TraesCS5A01G495400.1	TaLTPd1.30	chr5A	663375905	663376240	663376072.5
TraesCS3B01G454900.1	TaLTPd1.19	chr3B	696672976	696673308	696673142
TraesCS3D01G415100.1	TaLTPd1.22	chr3D	526995438	526997035	526996236.5
TraesCS3A01G419700.1	TaLTPd1.17	chr3A	661655266	661655586	661655426
TraesCS3B01G455100.1	TaLTPd1.20	chr3B	696778042	696778713	696778377.5
TraesCS3D01G415300.1	TaLTPd1.23	chr3D	527126682	527127284	527126983
TraesCS3A01G419800.1	TaLTPd1.18	chr3A	661787317	661787640	661787478.5
TraesCS3B01G455200.1	TaLTPd1.21	chr3B	696787838	696788483	696788160.5
TraesCS3D01G415400.1	TaLTPd1.24	chr3D	527135869	527136536	527136202.5
TraesCS3D01G323300.1	TaLTPd2.13	chr3D	436163683	436164375	436164029
TraesCS3A01G329900.1	TaLTPd2.9	chr3A	574866319	574866734	574866526.5
TraesCS3D01G323200.1	TaLTPd2.12	chr3D	436044575	436044990	436044782.5
TraesCS3B01G360000.1	TaLTPd2.11	chr3B	571811742	571812157	571811949.5
TraesCS3A01G329800.1	TaLTPd2.8	chr3A	574864267	574864817	574864542
TraesCS3B01G359900.1	TaLTPd2.10	chr3B	571809668	571810254	571809961
TraesCS1B01G421200.1	TaLTPd2.5	chr1B	645244411	645244868	645244639.5
TraesCS5A01G422900.1	TaLTPd2.14	chr5A	608950488	608950855	608950671.5
TraesCS1A01G062600.1	TaLTPd2.1	chr1A	42686184	42686671	42686427.5

TraesCS1A01G063200.1	TaLTPd2.2	chr1A	43391389	43392155	43391772
TraesCS2A01G449600.1	TaLTPd2.7	chr2A	699555053	699555771	699555412
TraesCS1A01G162700.1	TaLTPd2.3	chr1A	292077106	292077622	292077364
TraesCS1B01G179600.1	TaLTPd2.4	chr1B	325817764	325818650	325818207
TraesCS1D01G159700.1	TaLTPd2.6	chr1D	225710372	225711182	225710777
TraesCS2A01G297100.1	TaLTPd3.1	chr2A	511095229	511095672	511095450.5
TraesCS2B01G313300.1	TaLTPd3.4	chr2B	448778246	448778688	448778467
TraesCS2D01G295000.1	TaLTPd3.7	chr2D	377150411	377150853	377150632
TraesCS6B01G028400.1	TaLTPd3.12	chr6B	17036701	17037146	17036923.5
TraesCS7B01G351900.1	TaLTPd3.14	chr7B	608470232	608470858	608470545
TraesCS7A01G452100.1	TaLTPd3.13	chr7A	644845604	644846457	644846030.5
TraesCS7D01G441100.1	TaLTPd3.15	chr7D	560706657	560707432	560707044.5
TraesCS2A01G297200.1	TaLTPd3.2	chr2A	511114764	511115263	511115013.5
TraesCS2B01G313400.1	TaLTPd3.5	chr2B	448870450	448870945	448870697.5
TraesCS2D01G295100.1	TaLTPd3.8	chr2D	377156149	377156644	377156396.5
TraesCS2A01G430800.1	TaLTPd3.3	chr2A	684199222	684199709	684199465.5
TraesCS2B01G452100.1	TaLTPd3.6	chr2B	646066328	646066819	646066573.5
TraesCS3A01G364300.1	TaLTPd3.9	chr3A	613171405	613171851	613171628
TraesCS3B01G396400.1	TaLTPd3.10	chr3B	625333029	625333477	625333253
TraesCS3D01G357700.1	TaLTPd3.11	chr3D	470888758	470889215	470888986.5
TraesCS5B01G461600.1	TaLTPg1.7	chr5B	637158113	637160188	637159150.5
TraesCS5D01G463100.1	TaLTPg1.9	chr5D	506290475	506292167	506291321
TraesCS5A01G452700.1	TaLTPg1.5	chr5A	634086078	634088269	634087173.5
TraesCS5B01G461500.1	TaLTPg1.6	chr5B	637143711	637145403	637144557
TraesCS5A01G452600.1	TaLTPg1.4	chr5A	634077376	634079042	634078209
TraesCS5D01G463000.1	TaLTPg1.8	chr5D	506269763	506271820	506270791.5
TraesCS6D01G241400.1	TaLTPg1.12	chr6D	343636222	343638515	343637368.5
TraesCS6A01G260600.1	TaLTPg1.10	chr6A	484065069	484067625	484066347
TraesCS6B01G287900.1	TaLTPg1.11	chr6B	518601609	518604075	518602842
TraesCS4A01G021300.1	TaLTPg1.1	chr4A	14835334	14837139	14836236.5
TraesCS4B01G282200.1	TaLTPg1.2	chr4B	565313012	565314547	565313779.5
TraesCS4D01G280900.1	TaLTPg1.3	chr4D	451801628	451803154	451802391
TraesCS7A01G261900.1	TaLTPg1.13	chr7A	257147699	257152247	257149973
TraesCS7B01G159400.1	TaLTPg1.14	chr7B	216815633	216818509	216817071
TraesCS7D01G262500.1	TaLTPg1.15	chr7D	241176510	241179983	241178246.5
TraesCS6B01G126200.1	TaLTPg2.4	chr6B	121529231	121529737	121529484
TraesCS6D01G084600.1	TaLTPg2.7	chr6D	49848829	49849353	49849091
TraesCS6A01G098000.1	TaLTPg2.1	chr6A	65073130	65073841	65073485.5
TraesCS6A01G098100.1	TaLTPg2.2	chr6A	65133550	65134074	65133812
TraesCS6A01G098200.1	TaLTPg2.3	chr6A	65140393	65141070	65140731.5
TraesCS6B01G127900.1	TaLTPg2.5	chr6B	123724068	123729755	123726911.5
TraesCS6D01G082700.1	TaLTPg2.6	chr6D	47810554	47811000	47810777
TraesCS5D01G441000.1	TaLTPg3.25	chr5D	493997499	493998137	493997818
TraesCS5B01G436000.1	TaLTPg3.21	chr5B	610081075	610081832	610081453.5
TraesCS5B01G436100.1	TaLTPg3.22	chr5B	610085156	610085805	610085480.5

TraesCS5A01G433100.1	TaLTPg3.14	chr5A	616981829	616982494	616982161.5
TraesCS5D01G441100.1	TaLTPg3.26	chr5D	494033261	494033910	494033585.5
TraesCS5B01G435900.1	TaLTPg3.20	chr5B	610022043	610023009	610022526
TraesCS5B01G435800.1	TaLTPg3.19	chr5B	610006700	610007878	610007289
TraesCS5D01G441200.1	TaLTPg3.27	chr5D	494041989	494042570	494042279.5
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TraesCS5A01G432900.1	TaLTPg3.13	chr5A	616919394	616919912	616919653
TraesCS5D01G441300.1	TaLTPg3.28	chr5D	494052833	494053351	494053092
TraesCS5A01G432800.1	TaLTPg3.12	chr5A	616913769	616914550	616914159.5
TraesCS5D01G440800.1	TaLTPg3.24	chr5D	493835024	493835717	493835370.5
TraesCS5A01G432700.1	TaLTPg3.11	chr5A	616909085	616909892	616909488.5
TraesCS5B01G435500.1	TaLTPg3.17	chr5B	609927335	609927847	609927591
TraesCS1A01G048700.1	TaLTPg3.1	chr1A	30196854	30197476	30197165
TraesCS1B01G063600.1	TaLTPg3.2	chr1B	48284402	48316919	48300660.5
TraesCS1B01G063700.1	TaLTPg3.3	chr1B	48322710	48345275	48333992.5
TraesCS1B01G063800.1	TaLTPg3.4	chr1B	48346465	48347106	48346785.5
TraesCS1D01G050000.1	TaLTPg3.5	chr1D	30107700	30108330	30108015
TraesCS5A01G433500.1	TaLTPg3.15	chr5A	617175107	617176006	617175556.5
TraesCS5A01G433800.1	TaLTPg3.16	chr5A	617188181	617188922	617188551.5
TraesCS5B01G436700.1	TaLTPg3.23	chr5B	610295057	610295797	610295427
TraesCS5D01G441700.1	TaLTPg3.29	chr5D	494183026	494183762	494183394
TraesCS2B01G258900.1	TaLTPg3.6	chr2B	318204811	318206745	318205778
TraesCS2D01G245300.1	TaLTPg3.7	chr2D	279054981	279056220	279055600.5
TraesCS4A01G038400.1	TaLTPg3.8	chr4A	30399234	30400445	30399839.5
TraesCS4B01G267300.1	TaLTPg3.9	chr4B	540314486	540318553	540316519.5
TraesCS4D01G266900.1	TaLTPg3.10	chr4D	437683745	437685153	437684449
TraesCS6A01G049100.1	TaLTPg4.7	chr6A	25107445	25108479	25107962
TraesCS6A01G049200.1	TaLTPg4.8	chr6A	25203388	25204548	25203968
TraesCS6A01G049500.1	TaLTPg4.10	chr6A	25408368	25409480	25408924
TraesCS6A01G049700.1	TaLTPg4.12	chr6A	25525703	25526836	25526269.5
TraesCS6A01G049400.1	TaLTPg4.9	chr6A	25314174	25315268	25314721
TraesCS6A01G049600.1	TaLTPg4.11	chr6A	25472736	25473839	25473287.5
TraesCS6A01G049800.1	TaLTPg4.13	chr6A	25581073	25582152	25581612.5
TraesCSU01G108100.1	TaLTPg4.27	chrUn	94280480	94281538	94281009
TraesCSU01G108500.1	TaLTPg4.31	chrUn	94431946	94432989	94432467.5
TraesCSU01G108400.1	TaLTPg4.30	chrUn	94399725	94400789	94400257
TraesCSU01G188800.1	TaLTPg4.35	chrUn	284306746	284307852	284307299
TraesCSU01G239000.1	TaLTPg4.38	chrUn	355223099	355224103	355223601
TraesCSU01G108200.1	TaLTPg4.28	chrUn	94316506	94334305	94325405.5
TraesCSU01G108300.1	TaLTPg4.29	chrUn	94345752	94346837	94346294.5
TraesCSU01G220200.1	TaLTPg4.36	chrUn	325489422	325490465	325489943.5
TraesCSU01G220600.1	TaLTPg4.37	chrUn	325950182	325951237	325950709.5
TraesCS6B01G065600.1	TaLTPg4.14	chr6B	43475010	43476401	43475705.5
TraesCS6B01G066000.1	TaLTPg4.17	chr6B	43868418	43869302	43868860
TraesCSU01G108700.1	TaLTPg4.32	chrUn	94682807	94683837	94683322

TraesCS6A01G048900.1	TaLTPg4.6	chr6A	24921546	24922742	24922144
TraesCSU01G153800.1	TaLTPg4.33	chrUn	197717485	197718609	197718047
TraesCSU01G160200.1	TaLTPg4.34	chrUn	229104147	229105283	229104715
TraesCS6B01G065800.1	TaLTPg4.15	chr6B	43549183	43550283	43549733
TraesCS6B01G065900.1	TaLTPg4.16	chr6B	43572160	43572611	43572385.5
TraesCS1B01G010700.1	TaLTPg4.2	chr1B	5057629	5058082	5057855.5
TraesCS1A01G010900.1	TaLTPg4.1	chr1A	6517870	6562688	6540279
TraesCS7A01G340100.1	TaLTPg4.18	chr7A	498593990	498594400	498594195
TraesCS7B01G251800.1	TaLTPg4.21	chr7B	464548112	464548815	464548463.5
TraesCS7D01G347800.1	TaLTPg4.24	chr7D	447061732	447062142	447061937
TraesCS2D01G415900.1	TaLTPg4.5	chr2D	529657261	529658067	529657664
TraesCS2A01G419000.1	TaLTPg4.3	chr2A	674493788	674494564	674494176
TraesCS2B01G437700.1	TaLTPg4.4	chr2B	629693498	629694274	629693886
TraesCS7A01G405800.1	TaLTPg4.19	chr7A	589453828	589455189	589454508.5
TraesCS7B01G305700.1	TaLTPg4.22	chr7B	548162279	548163672	548162975.5
TraesCS7D01G399700.1	TaLTPg4.25	chr7D	515821338	515822824	515822081
TraesCS7B01G346500.1	TaLTPg4.23	chr7B	602300484	602302636	602301560
TraesCS7A01G446700.1	TaLTPg4.20	chr7A	641425177	641428704	641426940.5
TraesCS7D01G435200.1	TaLTPg4.26	chr7D	554563346	554565900	554564623
TraesCS3A01G338000.1	TaLTPg5.4	chr3A	584765966	584767910	584766938
TraesCS3B01G369600.1	TaLTPg5.5	chr3B	581663324	581664752	581664038
TraesCS3D01G331400.1	TaLTPg5.6	chr3D	443628606	443630276	443629441
TraesCS1A01G306000.1	TaLTPg5.1	chr1A	498174489	498175684	498175086.5
TraesCS1B01G316700.1	TaLTPg5.2	chr1B	541011245	541012356	541011800.5
TraesCS1D01G305700.1	TaLTPg5.3	chr1D	403059303	403060402	403059852.5
TraesCS4D01G177100.1	TaLTPg5.9	chr4D	308544569	308545738	308545153.5
TraesCS4A01G129300.1	TaLTPg5.7	chr4A	168545272	168546427	168545849.5
TraesCS4B01G175200.1	TaLTPg5.8	chr4B	385210692	385216775	385213733.5
TraesCS3B01G111200.1	TaLTPg6.3	chr3B	77349901	77350536	77350218.5
TraesCS3D01G095700.1	TaLTPg6.4	chr3D	48543231	48543867	48543549
TraesCS3D01G096000.1	TaLTPg6.5	chr3D	48731975	48732578	48732276.5
TraesCS3B01G111100.1	TaLTPg6.2	chr3B	77315304	77315939	77315621.5
TraesCS3A01G095600.1	TaLTPg6.1	chr3A	60842288	60842976	60842632
TraesCS6B01G008200.1	TaLTPg6.11	chr6B	5282957	5283394	5283175.5
TraesCS6D01G000200.1	TaLTPg6.12	chr6D	52368	52947	52657.5
TraesCS5A01G003300.1	TaLTPg6.6	chr5A	2414730	2415224	2414977
TraesCS5B01G003500.1	TaLTPg6.7	chr5B	5057454	5057948	5057701
TraesCS5D01G004000.1	TaLTPg6.8	chr5D	3571184	3571678	3571431
TraesCS5D01G004100.1	TaLTPg6.9	chr5D	3591495	3592002	3591748.5
TraesCS5D01G004300.1	TaLTPg6.10	chr5D	3609640	3610146	3609893
TraesCS7B01G431200.1	TaLTPg6.15	chr7B	699388914	699389366	699389140
TraesCS7A01G514500.1	TaLTPg6.14	chr7A	700637118	700654998	700646058
TraesCS7A01G514400.1	TaLTPg6.13	chr7A	700613781	700614230	700614005.5
TraesCS7D01G504800.1	TaLTPg6.16	chr7D	610764067	610764516	610764291.5
TraesCS7D01G083700.1	TaLTPg7.18	chr7D	50652217	50652836	50652526.5

TraesCS7B01G072000.1	TaLTPg7.17	chr7B	79308131	79309947	79309039
TraesCS7D01G168000.1	TaLTPg7.19	chr7D	118156790	118157438	118157114
TraesCS4B01G328000.1	TaLTPg7.7	chr4B	618647390	618647938	618647664
TraesCS4D01G325000.1	TaLTPg7.12	chr4D	485480982	485481500	485481241
TraesCS4B01G328100.1	TaLTPg7.8	chr4B	618654247	618654952	618654599.5
TraesCS4D01G325100.1	TaLTPg7.13	chr4D	485484286	485484964	485484625
TraesCS6B01G287800.1	TaLTPg7.15	chr6B	518592000	518592464	518592232
TraesCS6A01G260500.1	TaLTPg7.14	chr6A	484039136	484039772	484039454
TraesCS6D01G241300.1	TaLTPg7.16	chr6D	343617028	343617708	343617368
TraesCS2B01G004100.1	TaLTPg7.1	chr2B	2116046	2116633	2116339.5
TraesCS2B01G004800.1	TaLTPg7.2	chr2B	2566039	2566626	2566332.5
TraesCS4B01G066900.1	TaLTPg7.5	chr4B	59853917	59854390	59854153.5
TraesCS4A01G248000.1	TaLTPg7.4	chr4A	558679245	558679673	558679459
TraesCS4D01G065900.1	TaLTPg7.10	chr4D	40819522	40820926	40820224
TraesCS4D01G065800.1	TaLTPg7.9	chr4D	40817673	40818409	40818041
TraesCS4A01G055200.1	TaLTPg7.3	chr4A	46215300	46215665	46215482.5
TraesCS4B01G249400.1	TaLTPg7.6	chr4B	515065944	515066378	515066161
TraesCS4D01G250000.1	TaLTPg7.11	chr4D	418850725	418851248	418850986.5
