

SNP	Chromosome	Basepair	final_maf	Gene
rs10858022	1	114446341	0.367812	AP4B1
rs12076115	1	114437386	0.0161741	AP4B1
rs12079716	1	114444594	0.0185703	AP4B1
rs1217397	1	114447565	0.329473	AP4B1
rs1217398	1	114447776	0.224441	AP4B1
rs1217401	1	114438951	0.376997	AP4B1
rs1217402	1	114440258	0.237819	AP4B1
rs1310183	1	114439522	0.377995	AP4B1
rs150066260	1	114446488	0.0117812	AP4B1
rs17031980	1	114438123	0.0229633	AP4B1
rs17464525	1	114443899	0.122404	AP4B1
rs201156296	1	114437834	0.116613	AP4B1
rs34751342	1	114444444	0.0215655	AP4B1
rs376491508	1	114440214	0.0131789	AP4B1
rs3789613	1	114443035	0.365615	AP4B1
rs3838300	1	114442356	0.122204	AP4B1
rs41283516	1	114443343	0.0175719	AP4B1
rs6661817	1	114447034	0.36901	AP4B1
rs6695260	1	114439247	0.0107827	AP4B1
rs6703981	1	114439490	0.0141773	AP4B1
rs7513707	1	114445880	0.241214	AP4B1
rs7523862	1	114443419	0.365415	AP4B1
rs78665702	1	114442428	0.0105831	AP4B1
rs79496935	1	114442087	0.0141773	AP4B1
rs79561229	1	114438248	0.0133786	AP4B1
rs10152338	15	51226235	0.13119	AP4E1
rs10519288	15	51280263	0.0465256	AP4E1
rs10519289	15	51286576	0.183706	AP4E1
rs10566068	15	51290391	0.496206	AP4E1
rs10588492	15	51220912	0.278017	AP4E1
rs10744956	15	51269629	0.251198	AP4E1
rs11070822	15	51242782	0.192692	AP4E1
rs11070824	15	51249161	0.253395	AP4E1
rs11070825	15	51249529	0.141573	AP4E1
rs11070826	15	51258145	0.308706	AP4E1
rs111460275	15	51280931	0.0205671	AP4E1
rs112466086	15	51240920	0.0205671	AP4E1
rs112846901	15	51239390	0.0203674	AP4E1
rs112879726	15	51284089	0.0205671	AP4E1
rs11329556	15	51258750	0.429113	AP4E1
rs113350285	15	51271063	0.0133786	AP4E1
rs11353844	15	51225768	0.0151757	AP4E1

rs11378934	15	51219714	0.39996	AP4E1
rs114178510	15	51212177	0.047524	AP4E1
rs114255592	15	51220599	0.0145767	AP4E1
rs114529826	15	51218544	0.0241613	AP4E1
rs1147128	15	51207983	0.436701	AP4E1
rs1147129	15	51204364	0.440895	AP4E1
rs1147130	15	51202040	0.440895	AP4E1
rs114733950	15	51264419	0.0553115	AP4E1
rs115250045	15	51258086	0.0559105	AP4E1
rs115377547	15	51215691	0.0123802	AP4E1
rs115436087	15	51256171	0.0353434	AP4E1
rs115584492	15	51230023	0.0125799	AP4E1
rs115689615	15	51207997	0.0147764	AP4E1
rs116004259	15	51209693	0.0129792	AP4E1
rs116159461	15	51202535	0.014976	AP4E1
rs116226836	15	51262151	0.0125799	AP4E1
rs11631696	15	51256809	0.0666933	AP4E1
rs11632971	15	51280582	0.429712	AP4E1
rs11633226	15	51249164	0.15655	AP4E1
rs11635015	15	51230555	0.429712	AP4E1
rs11635054	15	51237910	0.156749	AP4E1
rs11635102	15	51260875	0.429712	AP4E1
rs116369071	15	51252664	0.0125799	AP4E1
rs116835815	15	51281201	0.0125799	AP4E1
rs117521174	15	51287916	0.0233626	AP4E1
rs117687584	15	51203461	0.0129792	AP4E1
rs11854585	15	51280729	0.196486	AP4E1
rs11854729	15	51249128	0.141573	AP4E1
rs11857981	15	51249074	0.141773	AP4E1
rs12385953	15	51275569	0.0559105	AP4E1
rs12438343	15	51244417	0.43131	AP4E1
rs12439323	15	51262790	0.15635	AP4E1
rs12440387	15	51258670	0.208666	AP4E1
rs12440745	15	51239520	0.208466	AP4E1
rs12441714	15	51241091	0.430312	AP4E1
rs12593342	15	51264164	0.235224	AP4E1
rs12593765	15	51247054	0.208267	AP4E1
rs12595034	15	51271581	0.494609	AP4E1
rs12595526	15	51225021	0.211861	AP4E1
rs12898208	15	51272706	0.434305	AP4E1
rs12898530	15	51272882	0.438698	AP4E1
rs12899397	15	51206409	0.137979	AP4E1
rs12899459	15	51276718	0.494409	AP4E1

rs12900973	15	51209974	0.185703	AP4E1
rs12901608	15	51264598	0.196286	AP4E1
rs12902894	15	51243964	0.438898	AP4E1
rs12902899	15	51243989	0.438698	AP4E1
rs12903317	15	51243983	0.183706	AP4E1
rs12904125	15	51231534	0.438898	AP4E1
rs12904382	15	51291576	0.496406	AP4E1
rs12904989	15	51262058	0.46266	AP4E1
rs12905455	15	51277812	0.135383	AP4E1
rs12905611	15	51231548	0.434704	AP4E1
rs12906866	15	51287083	0.494609	AP4E1
rs12907367	15	51265986	0.126198	AP4E1
rs12909839	15	51284120	0.208866	AP4E1
rs12912295	15	51212123	0.429113	AP4E1
rs12913094	15	51219284	0.142572	AP4E1
rs12916407	15	51234178	0.434305	AP4E1
rs12916845	15	51228452	0.237819	AP4E1
rs13380277	15	51248837	0.131589	AP4E1
rs137903865	15	51269760	0.0125799	AP4E1
rs139035937	15	51206835	0.0585064	AP4E1
rs139281158	15	51218800	0.0233626	AP4E1
rs139707160	15	51278215	0.0125799	AP4E1
rs139917489	15	51255383	0.0535144	AP4E1
rs139989153	15	51209734	0.0205671	AP4E1
rs141785683	15	51258393	0.0553115	AP4E1
rs141910204	15	51238761	0.0589058	AP4E1
rs142506059	15	51215077	0.15615	AP4E1
rs142528321	15	51223622	0.0285543	AP4E1
rs143250665	15	51218403	0.052516	AP4E1
rs143524830	15	51256769	0.0183706	AP4E1
rs143866598	15	51258882	0.0125799	AP4E1
rs144809125	15	51240399	0.208466	AP4E1
rs145058278	15	51201520	0.0135783	AP4E1
rs145296063	15	51244435	0.0127796	AP4E1
rs145911405	15	51288310	0.0105831	AP4E1
rs146318938	15	51277546	0.0125799	AP4E1
rs146679123	15	51211733	0.439696	AP4E1
rs146868403	15	51288266	0.0125799	AP4E1
rs146954539	15	51274206	0.014377	AP4E1
rs146978512	15	51290836	0.0233626	AP4E1
rs147068825	15	51294163	0.0125799	AP4E1
rs147267734	15	51211775	0.0171725	AP4E1
rs1472946	15	51223929	0.251997	AP4E1

rs147753935	15	51261095	0.0567093	AP4E1
rs147818316	15	51274112	0.0561102	AP4E1
rs147941678	15	51271336	0.0125799	AP4E1
rs148016613	15	51202337	0.0285543	AP4E1
rs148658731	15	51212244	0.0239617	AP4E1
rs149196095	15	51217097	0.0145767	AP4E1
rs149744437	15	51279414	0.0561102	AP4E1
rs149905807	15	51215735	0.0263578	AP4E1
rs150353948	15	51206110	0.0189696	AP4E1
rs150387952	15	51266111	0.0119808	AP4E1
rs1509423	15	51208948	0.429113	AP4E1
rs151038563	15	51205020	0.0125799	AP4E1
rs16953045	15	51251122	0.141573	AP4E1
rs16963977	15	51203171	0.15635	AP4E1
rs16963979	15	51211916	0.0207668	AP4E1
rs16963982	15	51213877	0.129792	AP4E1
rs16963985	15	51218262	0.130192	AP4E1
rs16963993	15	51250448	0.0591054	AP4E1
rs16963995	15	51269382	0.0465256	AP4E1
rs17521440	15	51210563	0.0656949	AP4E1
rs17521467	15	51214926	0.138179	AP4E1
rs17521789	15	51271177	0.137181	AP4E1
rs17521919	15	51291056	0.13778	AP4E1
rs17599863	15	51219962	0.127396	AP4E1
rs17599974	15	51237349	0.137181	AP4E1
rs17600241	15	51287055	0.0463259	AP4E1
rs17646917	15	51286126	0.208267	AP4E1
rs17703090	15	51214723	0.2502	AP4E1
rs183188908	15	51279138	0.0199681	AP4E1
rs1871460	15	51235469	0.208267	AP4E1
rs1876784	15	51238955	0.208267	AP4E1
rs188205301	15	51269390	0.0551118	AP4E1
rs189525744	15	51223757	0.0129792	AP4E1
rs1904430	15	51255019	0.208466	AP4E1
rs1904432	15	51249851	0.141573	AP4E1
rs191297716	15	51211660	0.0101837	AP4E1
rs191317323	15	51278833	0.0125799	AP4E1
rs192508958	15	51238757	0.0153754	AP4E1
rs1955	15	51238095	0.208267	AP4E1
rs200052940	15	51204855	0.43111	AP4E1
rs200942832	15	51204562	0.0131789	AP4E1
rs201298969	15	51278389	0.0491214	AP4E1
rs201661330	15	51291901	0.0309505	AP4E1

rs2127366	15	51251312	0.494609	AP4E1
rs2127367	15	51251349	0.438698	AP4E1
rs2127368	15	51251439	0.438698	AP4E1
rs2170011	15	51252652	0.438698	AP4E1
rs2289304	15	51289395	0.210863	AP4E1
rs2291107	15	51233812	0.208267	AP4E1
rs2306331	15	51217361	0.440895	AP4E1
rs2306332	15	51217475	0.429113	AP4E1
rs2306333	15	51217674	0.13758	AP4E1
rs2306335	15	51276128	0.267572	AP4E1
rs2414078	15	51220390	0.440895	AP4E1
rs2414079	15	51239091	0.438698	AP4E1
rs2414080	15	51239165	0.435503	AP4E1
rs2414081	15	51262308	0.438898	AP4E1
rs2614789	15	51201357	0.436302	AP4E1
rs2614790	15	51207205	0.497005	AP4E1
rs2614791	15	51207267	0.251997	AP4E1
rs2614792	15	51209571	0.436901	AP4E1
rs2614793	15	51209674	0.181709	AP4E1
rs2614794	15	51209855	0.496605	AP4E1
rs2619684	15	51288792	0.157748	AP4E1
rs2619685	15	51296015	0.15655	AP4E1
rs2619694	15	51202883	0.440895	AP4E1
rs2663531	15	51204749	0.208466	AP4E1
rs2663553	15	51207818	0.436701	AP4E1
rs2663554	15	51209585	0.436502	AP4E1
rs2663555	15	51210186	0.496605	AP4E1
rs2663557	15	51213624	0.208466	AP4E1
rs28366661	15	51258315	0.144569	AP4E1
rs28430533	15	51256012	0.142772	AP4E1
rs28552599	15	51225768	0.130391	AP4E1
rs28642856	15	51245680	0.141573	AP4E1
rs28702388	15	51215204	0.440895	AP4E1
rs28885693	15	51278413	0.49401	AP4E1
rs3214932	15	51204395	0.436302	AP4E1
rs33961860	15	51236784	0.467652	AP4E1
rs33980264	15	51217830	0.279952	AP4E1
rs34048744	15	51288353	0.375998	AP4E1
rs34511684	15	51217994	0.488019	AP4E1
rs34632792	15	51268295	0.196685	AP4E1
rs34688465	15	51203864	0.441094	AP4E1
rs34797700	15	51244963	0.429712	AP4E1
rs34930404	15	51213314	0.284944	AP4E1

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rs34974283	15	51280601	0.0289537	AP4E1
rs35080270	15	51274891	0.183706	AP4E1
rs35206636	15	51252202	0.208866	AP4E1
rs35337534	15	51246415	0.234824	AP4E1
rs35573737	15	51216820	0.208466	AP4E1
rs35644989	15	51267750	0.183307	AP4E1
rs35684604	15	51280334	0.196486	AP4E1
rs36004063	15	51230834	0.208267	AP4E1
rs3743045	15	51294995	0.490216	AP4E1
rs376137320	15	51276108	0.0111821	AP4E1
rs3784301	15	51225825	0.466653	AP4E1
rs3784302	15	51226099	0.483626	AP4E1
rs3784303	15	51237857	0.438698	AP4E1
rs3784304	15	51238060	0.208267	AP4E1
rs3816717	15	51204133	0.198283	AP4E1
rs3825797	15	51225683	0.211262	AP4E1
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rs3825799	15	51295934	0.267971	AP4E1
rs3840015	15	51293165	0.434105	AP4E1
rs4438254	15	51264126	0.434505	AP4E1
rs4444282	15	51215247	0.428914	AP4E1
rs4534781	15	51267361	0.494409	AP4E1
rs4775910	15	51215664	0.252196	AP4E1
rs4775912	15	51280979	0.171326	AP4E1
rs536958160	15	51203677	0.384784	AP4E1
rs537530114	15	51206848	0.257188	AP4E1
rs540468993	15	51241610	0.0391374	AP4E1
rs547069407	15	51225770	0.0151757	AP4E1
rs551604377	15	51212613	0.256989	AP4E1
rs554617632	15	51239613	0.386382	AP4E1
rs556767440	15	51277180	0.0205671	AP4E1
rs55683982	15	51238984	0.0199681	AP4E1
rs55735813	15	51263831	0.0207668	AP4E1
rs55742119	15	51293644	0.0183706	AP4E1
rs55912100	15	51297053	0.0189696	AP4E1
rs55920356	15	51219137	0.0199681	AP4E1
rs55940433	15	51219242	0.0205671	AP4E1
rs55973448	15	51264253	0.0205671	AP4E1
rs56010315	15	51286093	0.0205671	AP4E1
rs56017509	15	51232202	0.0205671	AP4E1
rs56049414	15	51261970	0.0207668	AP4E1
rs56056949	15	51218404	0.0205671	AP4E1

rs56115825	15	51254215	0.160543	AP4E1
rs56121717	15	51242625	0.0205671	AP4E1
rs56222335	15	51274337	0.0205671	AP4E1
rs56273151	15	51264660	0.0205671	AP4E1
rs56813592	15	51291261	0.0189696	AP4E1
rs57221782	15	51287869	0.0207668	AP4E1
rs573092617	15	51214980	0.208866	AP4E1
rs573632589	15	51212308	0.166334	AP4E1
rs57499524	15	51227252	0.0205671	AP4E1
rs57603576	15	51283566	0.131589	AP4E1
rs58137325	15	51214383	0.208666	AP4E1
rs58355375	15	51255874	0.0465256	AP4E1
rs58661036	15	51201780	0.138778	AP4E1
rs58909326	15	51233881	0.014377	AP4E1
rs59364110	15	51272645	0.0199681	AP4E1
rs59798270	15	51225775	0.0964457	AP4E1
rs60037205	15	51241772	0.0205671	AP4E1
rs60253924	15	51272240	0.0205671	AP4E1
rs61011194	15	51261710	0.430711	AP4E1
rs61161776	15	51284160	0.351637	AP4E1
rs61378471	15	51243262	0.0205671	AP4E1
rs61624224	15	51261049	0.438698	AP4E1
rs62018161	15	51248317	0.066893	AP4E1
rs62018162	15	51249246	0.131989	AP4E1
rs62018163	15	51249897	0.131589	AP4E1
rs62018164	15	51267277	0.066893	AP4E1
rs62018166	15	51273683	0.131589	AP4E1
rs6493467	15	51207143	0.0207668	AP4E1
rs6493468	15	51224642	0.0125799	AP4E1
rs6493469	15	51224896	0.440895	AP4E1
rs6493470	15	51284680	0.196486	AP4E1
rs66467957	15	51240537	0.416534	AP4E1
rs67889301	15	51266039	0.208666	AP4E1
rs71426056	15	51263125	0.137181	AP4E1
rs71471583	15	51213277	0.185903	AP4E1
rs71471584	15	51261229	0.137181	AP4E1
rs71471585	15	51262700	0.137181	AP4E1
rs71471587	15	51281623	0.13738	AP4E1
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rs7161775	15	51247111	0.014377	AP4E1
rs7162209	15	51238175	0.429712	AP4E1
rs7162562	15	51294497	0.259784	AP4E1
rs7165920	15	51229808	0.137181	AP4E1

rs7166073	15	51268452	0.072484	AP4E1
rs7168385	15	51248142	0.438698	AP4E1
rs7168846	15	51248194	0.438698	AP4E1
rs7169746	15	51295933	0.0125799	AP4E1
rs7169888	15	51257217	0.494609	AP4E1
rs7170036	15	51248303	0.29393	AP4E1
rs7170302	15	51211110	0.201478	AP4E1
rs7170310	15	51211131	0.211661	AP4E1
rs7170311	15	51211133	0.429113	AP4E1
rs7170365	15	51274505	0.434305	AP4E1
rs7170675	15	51274547	0.438698	AP4E1
rs7171085	15	51257312	0.438698	AP4E1
rs7173930	15	51233144	0.014377	AP4E1
rs7174066	15	51204716	0.0263578	AP4E1
rs7175024	15	51257790	0.141573	AP4E1
rs7176496	15	51236837	0.234625	AP4E1
rs7176498	15	51236838	0.208267	AP4E1
rs7176764	15	51257967	0.0125799	AP4E1
rs7177267	15	51258193	0.438898	AP4E1
rs7178380	15	51237171	0.0151757	AP4E1
rs7179321	15	51225126	0.138179	AP4E1
rs7179527	15	51202066	0.0151757	AP4E1
rs7180258	15	51285127	0.433706	AP4E1
rs7181051	15	51273094	0.438299	AP4E1
rs7181081	15	51258661	0.196286	AP4E1
rs7181201	15	51288651	0.42492	AP4E1
rs7182957	15	51282371	0.434305	AP4E1
rs7184026	15	51290796	0.434105	AP4E1
rs72742383	15	51201281	0.111022	AP4E1
rs72742385	15	51201695	0.0129792	AP4E1
rs74013114	15	51257318	0.0263578	AP4E1
rs74013115	15	51265893	0.0207668	AP4E1
rs74015232	15	51201637	0.0263578	AP4E1
rs74015235	15	51222871	0.0205671	AP4E1
rs74015236	15	51227473	0.0205671	AP4E1
rs74015237	15	51238351	0.0101837	AP4E1
rs74425710	15	51294201	0.0189696	AP4E1
rs74456643	15	51251169	0.18131	AP4E1
rs74542754	15	51284206	0.0551118	AP4E1
rs74595855	15	51263496	0.0125799	AP4E1
rs74691644	15	51265239	0.0551118	AP4E1
rs74692397	15	51281231	0.0233626	AP4E1
rs7494977	15	51264464	0.438898	AP4E1

rs75104984	15	51295732	0.0131789	AP4E1
rs75130619	15	51289605	0.0125799	AP4E1
rs75185654	15	51237719	0.0129792	AP4E1
rs75186798	15	51268167	0.0101837	AP4E1
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rs6571387	14	31535756	0.141573	AP4S1
rs6571388	14	31537338	0.276158	AP4S1
rs6571389	14	31541494	0.268171	AP4S1
rs6571391	14	31561890	0.322684	AP4S1
rs67489064	14	31523583	0.0636981	AP4S1
rs67643008	14	31504328	0.0489217	AP4S1
rs7141291	14	31503483	0.170327	AP4S1
rs71417942	14	31527725	0.0427316	AP4S1
rs71417945	14	31541136	0.066893	AP4S1
rs71417946	14	31551775	0.121406	AP4S1
rs7142495	14	31498056	0.047524	AP4S1
rs7142712	14	31512731	0.0788738	AP4S1
rs7142931	14	31503674	0.170128	AP4S1
rs71430917	14	31562672	0.221246	AP4S1
rs7143488	14	31498057	0.45008	AP4S1
rs7146243	14	31525415	0.145168	AP4S1
rs7149411	14	31499513	0.451677	AP4S1
rs7150103	14	31508324	0.158946	AP4S1
rs7150310	14	31508431	0.0792732	AP4S1
rs7150619	14	31538939	0.416933	AP4S1
rs7150642	14	31501505	0.345847	AP4S1
rs7153940	14	31514057	0.395367	AP4S1
rs7155228	14	31538984	0.272963	AP4S1
rs7156330	14	31523944	0.275359	AP4S1
rs7157080	14	31553720	0.241813	AP4S1
rs7159175	14	31536175	0.0547125	AP4S1
rs7160965	14	31506505	0.148962	AP4S1
rs71905676	14	31501278	0.497604	AP4S1
rs72670320	14	31507159	0.121006	AP4S1
rs72670321	14	31510337	0.387979	AP4S1
rs72670323	14	31510879	0.133786	AP4S1
rs72670334	14	31535996	0.130391	AP4S1
rs73251993	14	31494909	0.0121805	AP4S1
rs73252171	14	31538774	0.0117812	AP4S1
rs73252178	14	31539837	0.0117812	AP4S1
rs73252184	14	31542426	0.0634984	AP4S1
rs73252194	14	31543689	0.0207668	AP4S1
rs73252199	14	31547821	0.0211661	AP4S1

rs73252201	14	31548963	0.0642971	AP4S1
rs73253804	14	31549619	0.0642971	AP4S1
rs74042126	14	31546596	0.0139776	AP4S1
rs74042130	14	31560854	0.0417332	AP4S1
rs74243245	14	31506616	0.013778	AP4S1
rs74335139	14	31543796	0.013778	AP4S1
rs74603781	14	31496032	0.0231629	AP4S1
rs74733659	14	31532132	0.0792732	AP4S1
rs74742132	14	31515116	0.090655	AP4S1
rs74877958	14	31538386	0.024361	AP4S1
rs75270249	14	31546641	0.0139776	AP4S1
rs75302768	14	31504344	0.0223642	AP4S1
rs75344069	14	31518753	0.0794728	AP4S1
rs75563026	14	31501121	0.45028	AP4S1
rs75790144	14	31530035	0.0121805	AP4S1
rs75945533	14	31560568	0.0367412	AP4S1
rs76094753	14	31556960	0.0115815	AP4S1
rs76102969	14	31513425	0.013778	AP4S1
rs76919081	14	31502812	0.0123802	AP4S1
rs76947134	14	31548451	0.0133786	AP4S1
rs77070160	14	31553261	0.0205671	AP4S1
rs78221587	14	31551762	0.0189696	AP4S1
rs78451665	14	31550594	0.0203674	AP4S1
rs78532456	14	31519358	0.120407	AP4S1
rs78648016	14	31494988	0.0896565	AP4S1
rs79020122	14	31561175	0.0579073	AP4S1
rs79091644	14	31505778	0.013778	AP4S1
rs79344286	14	31528118	0.0141773	AP4S1
rs79385270	14	31531477	0.212859	AP4S1
rs79479260	14	31505795	0.0870607	AP4S1
rs79479957	14	31514081	0.0119808	AP4S1
rs79543676	14	31524935	0.147364	AP4S1
rs79767107	14	31504769	0.160743	AP4S1
rs79797441	14	31518967	0.190495	AP4S1
rs8007102	14	31546021	0.033746	AP4S1
rs8008326	14	31500403	0.0165735	AP4S1
rs8008526	14	31500537	0.142772	AP4S1
rs8010129	14	31513099	0.239217	AP4S1
rs8010967	14	31499082	0.0978435	AP4S1
rs8011836	14	31559608	0.430312	AP4S1
rs8012582	14	31543803	0.0810703	AP4S1
rs8014110	14	31540760	0.136382	AP4S1
rs8014360	14	31508785	0.255791	AP4S1

rs8019317	14	31518416	0.0642971	AP4S1
rs8020210	14	31518394	0.145966	AP4S1
rs8021054	14	31520811	0.275359	AP4S1
rs9181	14	31562424	0.0105831	AP4S1
rs9944096	14	31560608	0.0211661	AP4S1