

The overlap or linkage relationship of peak SNP and known QTL associated with SCN resistance.

Peak SNP	Chromosome	Position	Hg type	QTL	Relation with peak SNP	Left flanking marker of QTL	Marker position	Right flanking marker of QTL	Marker position	Reference
rs8009636	Gm01	8009636	race 4	SCN 26-2	Linkage	Satt032	7326736	Satt368	6916612	Yue et al. 2001[1]
				SCN 19-3	Linkage	Sat_353	7701041	Sat_413	354608	Yue et al. 2001[2]
				SCN 20-3	Linkage	Sat_353	7701041	Sat_413	354608	Yue et al. 2001[2]
				SCN 21-2	Linkage	Sat_353	7701041	Sat_413	354608	Yue et al. 2001[2]
rs949365	Gm04	949365	race 3	SCN 21-1	Linkage	BARC-029425-06191	2206978	BARC-030255-06839	1113971	Yue et al. 2001[2]
				SCN 36-6	Linkage	Sat_140	5221426	Sat_367	3243750	Vuong et al. 2011[3]
rs4605054 5	Gm04	4605054 5	race 3	SCN 36-7	Linkage	Sat_207	42773904	Satt294	40154806	Vuong et al. 2011[3]
rs2678113 5	Gm05	2678113 5	race 4	SCN 18-1	Overlap	SOYNOD26A	35100953	Sat_410	18413059	Yue et al. 2001[2]
rs3384370 4	Gm05	3384370 4	race 3	SCN 18-1	Overlap	SOYNOD26A	35100953	Sat_410	18413059	Yue et al. 2001[2]
rs3640470 0	Gm07	3640470 0	race 3	SCN 40-4	Linkage	Satt250	39127792	Satt551	37174014	Ferreira et al. 2011[4]
rs8050006	Gm08	8050006	race 3	SCN 39-8	Overlap	BARC-013587-01169	10650702	Sat_162	8279349	Wu et al. 2009[5]
				SCN 29-5	Overlap	Satt424	10721660	Sat_400	7885686	Guo et al. 2006[6]
				SCN 9-3	Overlap	Satt424	10721660	Sat_212	9166013	Mahalingam 1995[7]
				SCN 42-1	Overlap	AW132402	11868919	Sat_400	7885686	Ariagada et al. 2012[8]
				SCN 1-1	Overlap	Satt589	5175904	Satt480	4211667	Concibido et al. 1994[9]
				cqSCN-00 2	Overlap	Sat_400	7885686	BARC-011635-00314	6804182	Matthews et al. 1998[10] Prabhu et al. 1999[11]

Meksem et al. 2001B[12]
Meksem et al. 2001C[13]
Yuan et al. 2002[14]
Meksem et al. 2001A[15]

				SCN 33-2	Overlap	Satt632	8219188	Sat_406	3987571	Guo et al. 2006[6]
				SCN 36-1	Overlap	Satt632	8219188	Satt315	6751511	Vuong et al. 2011[3]
				SCN 36-2	Overlap	Satt632	8219188	Satt315	6751511	Vuong et al. 2011[3]
				SCN 40-1	Overlap	Sat_157	8349427	BARC-011635-00314	6804182	Ferreira et al. 2011[4]
				SCN 27-2	Overlap	BARC-038291-07245	8379940	BARC-011635-00314	6804182	Meksem et al. 2001C[13]
				SCN 3-1	Overlap	BARC-038291-07245	8379940	BARC-011635-00314	6804182	Webb et al. 1995[16]
				SCN 9-2	Overlap	BARC-038291-07245	8379940	BARC-011635-00314	6804182	Mahalingam 1995[7]
				SCN 13-2	Overlap	Sat_212	9166013	GMENOD2B	10190700	Prabhu et al. 1999[11]
				SCN 8-5	Overlap	Sat_212	9166013	GMENOD2B	10190700	Chang et al. 1997[17]
				SCN 39-1	Overlap	Sat_212	9166013	Sat_162	8279349	Wu et al. 2009[5]
				SCN 41-4	Overlap	Satt187	9199676	GMENOD2B	10190700	Kazi et al. 2010[18]
				SCN 41-5	Overlap	Satt187	9199676	GMENOD2B	10190700	Kazi et al. 2010 [18]
				SCN 19-1	Overlap	Sat_215	9211714	Satt315	6751511	Yue et al. 2001[1]
				SCN 30-3	Overlap	BARC-043119-08535	9997461	BARC-013587-01169	10650702	Brucker et al. 2005[19]
rs4164337	Gm08	4164337	race							
1		1	4	SCN 37-4	Linkage	Sat_040	39048596	Satt233	17297986	Vuong et al. 2010[20]
rs3460848	Gm09	3460848	race							
4		4	3	SCN 39-5	Overlap	Satt240	32913643	Satt247	9265060	Wu et al. 2009[5]
rs3348838	Gm11	3348838	race							
3		3	3	SCN 2-2	Linkage	AQ851479	37892646	Satt453	38360539	Verling et al. 1996[21]
				SCN 32-3	Linkage	BE801538	38205774	Satt453	38360539	Ferdous et al. 2006[22]
				SCN 29-10	Linkage	Sat_331	38376841	Satt359	36868221	Guo et al. 2006[23]

rs3058130	Gm14	3058130	race	SCN 33-4	Linkage	Sat_331	38376841	BARC-021459-04106	38902483	Guo et al. 2006[6]		
				SCN 33-6	Linkage	Sat_331	38376841	BARC-021459-04106	38902483	Guo et al. 2006[6]		
				SCN 39-9	Linkage	BARC-021459-04106	38902483	Satt359	36868221	Wu et al. 2009[5]		
				SCN 10-1	Linkage	Sat_424	46983608	Satt063	46705813	Qiu et al. 1999[24]		
6		6	3									
rs3370413	Gm16	3370413	race	SCN 38-3	Overlap	Satt244	33327176	Sat_350	30435381	Chang et al. 2011[25]		
				0	4							
				SCN 28-2	Linkage	Satt547	33538088	Satt244	33327176	Glover et al. 2004[26]		
				SCN 1-2	Linkage	Sat_224	35386076	BARC-030433-06867	33761218	Concibido et al. 1994[9]		
				SCN 5-2	Linkage	Sat_224	35386076	BARC-030433-06867	33761218	Concibido et al. 1997[27]		
				SCN 28-4	Linkage	Satt431	35718413	Satt244	33327176	Glover et al. 2004[26]		
				cqSCN-003	Linkage	Satt431	35718413	Satt547	33538088	Glover et al. 2004[26]		
				SCN 29-2	Linkage	BARC-041173-07927	36278618	Satt547	33538088	Guo et al. 2006[23]		
				SCN 29-6	Linkage	BARC-041173-07927	36278618	Satt547	33538088	Guo et al. 2006[23]		
				rs1723888	Gm17	1723888	race	SCN 38-6	Linkage	Satt082	19746628	Satt514
4	4											
SCN 40-2	Overlap	Sat_210	1621167	BARC-035305-07162				1726852	Ferreira et al. 2011[4]			
SCN 13-1	Overlap	Sat_210	1621167	BARC-035305-07162				1726852	Prabhu et al. 1999[11]			
rs1643660	Gm18	1643660	race	SCN 4-1	Overlap	Sat_210	1621167	BARC-035305-07162	1726852	Concibido et al. 1997[27]		
				3	SCN 5-1	Overlap	Sat_210	1621167	BARC-035305-07162	1726852	Concibido et al. 1997[27]	
				SCN 6-1	Overlap	Sat_210	1621167	BARC-035305-07162	1726852	Concibido et al. 1997[27]		
				SCN 8-3	Overlap	Sat_210	1621167	BARC-035305-07162	1726852	Chang et al. 1997[17]		
				SCN 36-3	Linkage	Satt309	1736253	BARC-035305-07162	1726852	Vuong et al. 2011[3]		

SCN 36-4	Linkage	Satt309	1736253	BARC-035305-07162	1726852	Vuong et al. 2011[3]
SCN 36-5	Linkage	Satt309	1736253	BARC-035305-07162	1726852	Vuong et al. 2011[3]
SCN 38-2	Linkage	Satt309	1736253	BARC-035305-07162	1726852	Chang et al. 2011[25]
SCN 41-1	Linkage	Satt309	1736253	BARC-035305-07162	1726852	Kazi et al. 2010[18]
SCN 33-3	Overlap	Satt309	1736253	Satt163	998312	Guo et al. 2006[6]
SCN 33-5	Overlap	Satt309	1736253	Satt163	998312	Guo et al. 2006[6]
SCN 41-2	Overlap	Satt309	1736253	Satt163	998312	Kazi et al. 2010[18]
cqSCN-00 1	Overlap	BARC-027452-06569	1788836	Sat_210	1621167	Mudge et al. 1997[28]
						Yuan et al. 2002[14]
						Meksem et al. 2001A[15]
SCN 39-3	Linkage	BARC-027452-06569	1788836	BARC-035305-07162	1726852	Wu et al. 2009[5]
SCN 41-3	Linkage	BARC-027452-06569	1788836	BARC-035305-07162	1726852	Kazi et al. 2010[18]
SCN 14-2	Linkage	BARC-027452-06569	1788836	BARC-035305-07162	1726852	Meksem et al. 1999[29]
SCN 30-1	Linkage	BARC-027452-06569	1788836	BARC-035305-07162	1726852	Brucker et al. 2005[19]
SCN 30-2	Linkage	BARC-027452-06569	1788836	BARC-035305-07162	1726852	Brucker et al. 2005[19]
SCN 23-3	Linkage	BARC-027452-06569	1788836	Satt309	1736253	Yue et al. 2001[1]
SCN 24-2	Linkage	BARC-027452-06569	1788836	Satt309	1736253	Yue et al. 2001[1]
SCN 25-2	Linkage	BARC-027452-06569	1788836	Satt309	1736253	Yue et al. 2001[1]
SCN 26-3	Linkage	BARC-027452-06569	1788836	Satt309	1736253	Yue et al. 2001[1]
SCN 27-1	Linkage	BARC-027452-06569	1788836	Satt309	1736253	Meksem et al. 2001C[13]
SCN 32-1	Linkage	Sat_141	2409363	BARC-035305-07162	1726852	Ferdous et al. 2006[22]
SCN 4-4	Linkage	Sat_141	2409363	BARC-035305-07162	1726852	Concibido et al. 1996[30]
SCN 5-3	Linkage	Sat_141	2409363	BARC-035305-07162	1726852	Concibido et al. 1996[30]
SCN 6-2	Linkage	Sat_141	2409363	BARC-035305-07162	1726852	Concibido et al. 1996[30]
SCN 7-1	Linkage	Sat_141	2409363	BARC-035305-07162	1726852	Concibido et al. 1996[30]
SCN 28-1	Linkage	Sat_141	2409363	Satt309	1736253	Glover et al. 2004[26]

SCN 28-3	Linkage	Sat_141	2409363	Satt309	1736253	Glover et al. 2004[26]
SCN 42-2	Linkage	Sat_163	2410304	BARC-035305-07162	1726852	Ariagada et al. 2012[8]
SCN 14-1	Linkage	Sat_163	2410304	Satt309	1736253	Meksem et al. 1999[29]
SCN 8-2	Linkage	Sat_163	2410304	Satt309	1736253	Chang et al. 1997[17]
SCN 39-7	Linkage	Satt610	2664941	Satt309	1736253	Wu et al. 2009[5]
SCN 8-1	Linkage	Satt570	3162690	Sat_163	2410304	Chang et al. 1997[17]
SCN 33-1	Linkage	Satt688	3264226	Satt309	1736253	Guo et al. 2006[6]
SCN 29-1	Overlap	Satt688	3264226	Satt163	998312	Guo et al. 2006[23]
SCN 29-4	Overlap	Satt688	3264226	Satt163	998312	Guo et al. 2006[23]
SCN 29-8	Linkage	Satt688	3264226	Satt163	998312	Guo et al. 2006[23]
SCN 42-4	Linkage	Satt217	4692233	Sat_141	2409363	Ariagada et al. 2012[8]
SCN 15-1	Linkage	BARC-041147-07917	6085107	Satt309	1736253	Vaghchhipawala et al. 2001[31]

1: race 3 equals to Hg type 0; race 4 equals to Hg type 1,2,3,5,7

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