

SCC ID	Chromosome	Type	start	end	differentiation status	Previously published in Purdie <i>et al</i> 2007
1	1	G	77164593	173717231	P	Yes
1	1	L	173717231	1qter	P	Yes
1	2	L	2qcen	2qter	P	Yes
1	5	G	5pter	5qter	P	Yes
1	6	G	6pter	6qter	P	Yes
1	7	L	135204272	7qter	P	Yes
1	9	L	9qcen	122991506	P	Yes
1	9	G	122991506	9qter	P	Yes
1	10	L	10pter	10qter	P	Yes
1	11	L	83013412	11qter	P	Yes
1	13	U	13qcen	13qter	P	Yes
1	14	G	52302098	14qter	P	Yes
1	15	L	15qcen	15qter	P	Yes
1	17	U	17pter	17qter	P	Yes
1	20	G	20qcen	20qter	P	Yes
1	22	L	22qcen	22qter	P	Yes
1	X	G	Xpter	32262635	P	Yes
1	X	G	68899351	87984705	P	Yes
2	3	L	3pter	3pcen	W	Yes
2	3	G	3qcen	3qter	W	Yes
2	9	L	9pter	38017644	W	Yes
2	9	G	9qcen	9qter	W	Yes
2	18	G	18pter	18pcen	W	Yes
2	18	L	18qcen	18qter	W	Yes
3	3	L	3pter	87137751	M	Yes
3	3	G	132942030	3qter	M	Yes
3	5	G	5pter	5pcen	M	Yes
3	5	L	5qcen	5qter	M	Yes
3	7	G	7pter	7pcen	M	Yes
3	7	U	65463418	7qter	M	Yes
3	8	L	8pter	20135643	M	Yes
3	8	L	23401471	40607130	M	Yes
3	8	G	1 75170824	8qter	M	Yes
3	9	U	9pter	9qter	M	Yes
3	11	L	11pter	12185692	M	Yes

3	11	G	51302895	11qter	M	Yes
3	17	L	17pter	39115918	M	Yes
3	17	G	61578821	17qter	M	Yes
4	3	L	3pter	3pcen	W	Yes
4	3	G	3qcen	3qter	W	Yes
4	9	L	9pter	9pcen	W	Yes
4	9	G	9qcen	9qter	W	Yes
4	13	L	13qcen	13qter	W	Yes
5	1	G	1qcen	1qter	W	Yes
5	3	L	3pter	84484209	W	Yes
5	3	G	84484209	3pcen	W	Yes
5	7	G	7pter	33959508	W	Yes
5	8	L	8pter	8pcen	W	Yes
5	8	G	50946254	8qter	W	Yes
5	9	U	9pter	9pcen	W	Yes
5	9	G	9qcen	9qter	W	Yes
5	18	L	18pter	12539850	W	Yes
6	3	L	3pter	3pcen	W	Yes
6	3	G	3qcen	3qter	W	Yes
6	8	L	8pter	8pcen	W	Yes
6	9	L	9pter	9pcen	W	Yes
7	2	U	172140552	2qter	W	Yes
7	7	G	7pter	7qter	W	Yes
7	8	L	8pter	40420045	W	Yes
7	13	U	13qcen	13qter	W	Yes
7	20	G	20pter	20qter	W	Yes
8	2	L	2pter	2qter	M	Yes
8	3	L	3pter	85729116	M	Yes
8	4	L	151884547	4qter	M	Yes
8	7	U	7pter	137550673	M	Yes
8	7	L	137550673	7qter	M	Yes
8	9	L	9pter	38288279	M	Yes
8	10	L	10pter	10qter	M	Yes
8	11	L	11pter	11pcen	M	Yes
8	13	L	13qcen	101353473	M	Yes
8	17	L	61578821	17qter	M	Yes

8	18	L	24373058	18qter	M	Yes
9	1	L	1pter	1qter	P	Yes
9	2	U	2pter	2qter	P	Yes
9	6	U	6pter	6pcen	P	Yes
9	9	U	9pter	9qter	P	Yes
9	18	U	18pter	18qter	P	Yes
10	1	G	1qcen	1qter	M	Yes
10	3	G	142588260	3qter	M	Yes
10	7	L	S 112928544	7qter	M	Yes
10	8	L	8pter	8pcen	M	Yes
10	8	G	8qcen	8qter	M	Yes
10	9	L	9pter	9pcen	M	Yes
10	11	L	11pter	11pcen	M	Yes
10	11	G	11qcen	90247865	M	Yes
10	11	L	94616661	11qter	M	Yes
10	15	G	15qcen	15qter	M	Yes
10	19	L	19pter	19pcen	M	Yes
11	2	L	2pter	2qter	W	Yes
11	3	L	3pter	48732295	W	Yes
11	9	L	9pter	99522797	W	Yes
11	13	L	13qcen	13qter	W	Yes
11	17	L	17qcen	17qter	W	Yes
11	19	G	6636304	19pcen	W	Yes
11	19	G	52822703	19qter	W	Yes
11	X	L	Xpter	50165985	W	Yes
12	2	L	128416303	139077715	M	Yes
12	2	L	157270746	157978388	M	Yes
12	8	G	8qcen	8qter	M	Yes
12	9	L	8546140	9383616	M	Yes
12	11	U	11pter	34999871	M	Yes
12	11	G	34999871	42397734	M	Yes
12	18	L	18pter	18qter	M	Yes
12	X	G	Xpter	Xqter	M	Yes
13	2	L	207316788	2qter	M	Yes
13	3	L	3pter	100634082	M	Yes
13	3	G	100634082	3qter	M	Yes

13	6	L	6pter	41551593	M	Yes
13	8	L	8pter	8pcen	M	Yes
13	8	G	8qcen	8qter	M	Yes
13	9	L	9pter	9pcen	M	Yes
13	16	L	16pter	16pcen	M	Yes
13	17	U	10484854	17350285	M	Yes
13	18	L	27086836	18qter	M	Yes
13	21	G	31842275	21qter	M	Yes
14	1	U	205702412	1qter	M	Yes
14	3	L	3pter	3pcen	M	Yes
14	5	G	5pter	5pcen	M	Yes
14	5	U	5qcen	5qter	M	Yes
14	6	L	6pter	17993381	M	Yes
14	9	U	9pter	38288618	M	Yes
14	10	L	10pter	10qter	M	Yes
14	13	U	13qcen	13qter	M	Yes
14	14	U	14qcen	14qter	M	Yes
14	17	L	17pter	17qter	M	Yes
14	20	L	20pter	20qter	M	Yes
14	22	L	23923658	22qter	M	Yes
15	1	L	69552025	117767684	M	Yes
15	2	G	157600114	2qter	M	Yes
15	4	L	152981522	4qter	M	Yes
15	6	L	6qcen	6qter	M	Yes
15	8	L	8pter	28758718	M	Yes
15	8	G	120251040	8qter	M	Yes
15	9	L	9pter	9pcen	M	Yes
15	10	U	57900628	10qter	M	Yes
15	11	L	11pter	36285306	M	Yes
15	13	L	13qcen	13qter	M	Yes
15	15	G	15qcen	15qter	M	Yes
15	19	G	19pter	19pcen	M	Yes
15	19	U	19qcen	19qter	M	Yes
15	20	G	20qcen	20qter	M	Yes
16	1	G	1pter	1qter	M	Yes
16	2	G	2pter	2pcen	M	Yes

16	2	L	204135492	2qter	M	Yes
16	7	G	7pter	7pcen	M	Yes
16	7	U	136283723	7qter	M	Yes
16	8	L	8pter	65530781	M	Yes
16	9	L	9pter	31609334	M	Yes
16	9	U	9qcen	9qter	M	Yes
16	12	G	382 85807154	106197332	M	Yes
16	13	L	13qcen	13qter	M	Yes
16	14	L	14qcen	42414308	M	Yes
16	19	G	19pter	19pcen	M	Yes
16	X	G	Xpter	Xqter	M	Yes
17	2	L	195419768	2qter	W	No
17	3	L	3pter	3pcen	W	No
17	3	G	3qcen	3qter	W	No
17	4	L	147866330	4qter	W	No
17	6	L	53871906	70927876	W	No
17	6	L	99839825	105039815	W	No
17	9	U	9pter	9qter	W	No
17	16	G	16pter	16qter	W	No
17	17	G	17pter	17qter	W	No
17	20	G	20pter	59777498	W	No
17	22	G	22qcen	35568466	W	No
18	3	L	3pter	3pcen	M	No
18	4	L	4pter	4qter	M	No
18	9	L	9pter	32165439	M	No
18	13	L	13qcen	55544030	M	No
18	17	L	17pter	25779083	M	No
18	17	U	25779083	17qter	M	No
18	18	L	24168586	18qter	M	No
19	3	L	3pter	3pcen	M	No
19	3	G	3qcen	3qter	M	No
19	6	G	6pter	6qter	M	No
19	9	L	9pter	29639357	M	No
19	9	G	29639357	39070062	M	No
19	18	L	7593196	9630395	M	No
19	19	L	19qcen	19qter	M	No

19	21	L	21qcen	21qter	M	No
20	3	L	3pter	50483205	M	No
20	4	L	4pter	16067366	M	No
20	5	G	5pter	14081392	M	No
20	6	U	6pter	34527940	M	No
20	6	L	164735710	6qter	M	No
20	9	G	9pter	19095559	M	No
20	9	G	76723227	9qter	M	No
20	11	L	11pter	23226568	M	No
20	11	G	60683497	67553327	M	No
20	11	L	67553327	11qter	M	No
20	14	G	100674890	14qter	M	No
20	16	G	66782534	16qter	M	No
20	17	L	17pter	16962445	M	No
20	19	L	19pter	8306384	M	No
20	22	U	22qcen	22qter	M	No
21	1	G	1pter	118281080	W	No
21	3	L	58977975	3pcen	W	No
21	3	G	3qcen	3qter	W	No
21	5	G	5pter	37403696	W	No
21	7	L	7pter	5017436	W	No
21	9	L	8980778	9873921	W	No
21	11	L	11pter	11pcen	W	No
21	13	L	13qcen	71374078	W	No
21	17	L	17pter	17qter	W	No
21	20	G	20pter	20qter	W	No
22	1	G	1pter	86321294	M	No
22	3	G	3pter	3qter	M	No
22	5	L	5pter	5qter	M	No
22	6	G	6pter	6qter	M	No
22	8	L	8pter	8qter	M	No
22	10	L	10pter	10qter	M	No
22	17	L	17pter	17qter	M	No
22	18	G	18pter	18qter	M	No
22	22	U	22qcen	22qter	M	No
23	5	G	5pter	5pcen	M	No

23	5	U	77667673	5qter	M	No
23	9	L	9pter	9pcen	M	No
23	10	U	78414705	10qter	M	No
23	19	L	19pter	16457507	M	No
23	20	G	20pter	20qter	M	No
23	22	G	22qcen	22qter	M	No
24	1	U	1qcen	1qter	M	No
24	6	L	100047824	128335774	M	No
24	6	U	128335774	6qter	M	No
24	8	L	8pter	33098684	M	No
24	8	G	33098684	40394630	M	No
24	8	L	40394630	8pcen	M	No
24	8	G	8qcen	8qter	M	No
24	9	L	9pter	9pcen	M	No
24	9	G	9qcen	9qter	M	No
24	18	G	18pter	43984973	M	No
24	18	L	43984973	18qter	M	No
24	19	L	19pter	19qter	M	No
24	20	G	20pter	20qter	M	No
24	21	L	21qcen	21qter	M	No
24	22	L	22qcen	22qter	M	No
25	3	L	3pter	3pcen	W	No
25	3	G	3qcen	3qter	W	No
25	8	L	8pter	8pcen	W	No
25	8	G	8qcen	8qter	W	No
25	9	G	9pter	9224067	W	No
25	9	L	9224067	9826019	W	No
25	9	G	9826019	9qter	W	No
25	11	L	78185207	103865285	W	No
25	13	U	13qcen	13qter	W	No
25	16	L	16qcen	63216477	W	No
25	18	L	18qcen	18qter	W	No
25	21	L	15134119	34094600	W	No
26	1	G	1qcen	1qter	P	No
26	3	L	3pter	3pcen	P	No
26	5	G	5pter	29482913	P	No

26	7	G	7pter	7pcen	P	No
26	7	U	67349417	7qter	P	No
26	8	L	8pter	8pcen	P	No
26	8	G	8qcen	8qter	P	No
26	9	U	9pter	8757084	P	No
26	9	L	8757084	72582743	P	No
26	9	U	72582743	9qter	P	No
26	11	L	11pter	33478780	P	No
26	11	G	33478780	46289568	P	No
26	13	U	13qcen	13qter	P	No
26	17	U	17pter	17pcen	P	No
27	3	L	3pter	3pcen	W	No
27	14	L	14qcen	14qter	W	No
28	3	U	3pter	18688495	W	No
28	3	L	18688495	3pcen	W	No
28	3	G	104364317	3qter	W	No
28	16	L	15560980	16pcen	W	No
28	17	U	17pter	17pcen	W	No
29	2	L	133334820	2qter	M	No
29	6	G	6pter	39935930	M	No
29	6	L	134991763	6qter	M	No
29	8	G	85771857	8qter	M	No
29	9	U	9pter	9pcen	M	No
29	9	G	9qcen	9qter	M	No
29	16	L	16pter	16qter	M	No
29	17	L	17pter	17qter	M	No
29	19	L	19pter	19qter	M	No
29	X	G	Xpter	Xqter	M	No
30	3	L	35435327	3pcen	W	No
30	4	L	180344968	182597652	W	No
30	9	L	9pter	9qter	W	No
31	4	G	23751758	4qter	P	No
31	5	L	58745804	95489433	P	No
31	5	G	98349716	111551020	P	No
31	6	G	6qcen	6qter	P	No
31	8	L	8pter	35767933	P	No



31	11	L	71806079	99776100	P	No
31	11	G	99776100	110407980	P	No
31	11	L	110407980	11qter	P	No
31	12	G	12pter	92489354	P	No
31	12	L	92489354	12qter	P	No
31	13	G	13qcen	13qter	P	No
31	17	U	17pter	17pcen	P	No
31	X	G	Xpter	Xqter	P	No
32	3	L	3pter	3pcen	M	No
32	3	G	3qcen	3qter	M	No
32	6	G	6pter	6qter	M	No
32	8	L	8pter	33810484	M	No
32	8	G	33810484	38081281	M	No
32	8	L	38081281	8pcen	M	No
32	9	L	9pter	9pcen	M	No
32	11	G	67389760	70170405	M	No
32	11	L	70170405	11qter	M	No
32	12	L	12pter	12pcen	M	No
32	12	G	12qcen	74225226	M	No
32	12	L	74225226	91131188	M	No
32	13	L	13qcen	13qter	M	No
32	14	G	14qcen	14qter	M	No
32	15	L	15qcen	54075596	M	No
32	15	G	54075596	15qter	M	No
32	18	G	18qcen	19445989	M	No
32	18	L	19445989	18qter	M	No
32	22	G	22qcen	22qter	M	No
33	1	G	1qcen	1qter	W	No
33	3	L	14076772	3pcen	W	No
33	3	G	3qcen	3qter	W	No
33	5	L	62486173	5qter	W	No
33	8	L	8pter	29183786	W	No
33	8	G	29183786	8qter	W	No
33	9	L	9pter	9pcen	W	No
33	22	G	22qcen	22qter	W	No
34	1	G	1pter	55646227	M	No

34	1	G	107081387	154907063	M	No
34	1	L	154907063	1qter	M	No
34	2	L	138618113	172607629	M	No
34	3	L	13105960	3pcen	M	No
34	5	L	77007608	130032846	M	No
34	13	L	13qcen	13qter	M	No
34	16	L	16pter	16qter	M	No
34	19	G	19pter	19717956	M	No
34	19	G	34855756	19qter	M	No
35	1	G	1pter	46622515	M	No
35	1	G	233714150	1qter	M	No
35	3	L	3pter	3pcen	M	No
35	3	G	3qcen	3qter	M	No
35	4	G	176148064	177311526	M	No
35	4	L	177311526	4qter	M	No
35	5	G	5pter	5pcen	M	No
35	5	L	5qcen	5qter	M	No
35	7	G	7pter	7pcen	M	No
35	8	L	8pter	3366328	M	No
35	8	G	3366328	4185504	M	No
35	9	L	9pter	9pcen	M	No
35	11	L	11pter	43836058	M	No
35	11	G	43836058	47598107	M	No
35	11	L	47598107	11pcen	M	No
35	11	G	11qcen	11qter	M	No
35	13	L	20690152	59432112	M	No
35	17	L	17pter	19358271	M	No
35	18	L	58800964	18qter	M	No
36	3	L	3pter	3pcen	W	No
36	3	G	3qcen	3qter	W	No
36	5	G	5pter	14741457	W	No
36	8	L	8pter	8pcen	W	No
36	8	G	8qcen	8qter	W	No
36	9	L	9pter	9pcen	W	No
36	9	G	9qcen	9qter	W	No
36	18	G	4815198	21205388	W	No

37	1	L	107081387	115202728	M	No
37	2	L	2pter	2pcen	M	No
37	2	L	123248941	2qter	M	No
37	3	G	3pter	49511403	M	No
37	3	L	49511403	3pcen	M	No
37	4	L	4pter	4pcen	M	No
37	4	L	79813456	4qter	M	No
37	8	L	8pter	8pcen	M	No
37	8	L	99296050	120116189	M	No
37	8	G	120116189	132750633	M	No
37	8	L	132572683	135953731	M	No
37	9	L	9pter	9pcen	M	No
37	9	G	9qcen	78669063	M	No
37	9	L	79863604	84641768	M	No
37	9	L	117406323	132594059	M	No
37	9	G	132594059	9qter	M	No
37	10	L	85967899	10qter	M	No
37	11	L	11pter	11qter	M	No
37	12	L	12qcen	50073851	M	No
37	13	L	13qcen	13qter	M	No
37	14	G	89028694	98086846	M	No
37	14	L	98086846	14qter	M	No
37	15	L	15qcen	42235116	M	No
37	16	L	16pter	16qter	M	No
37	17	L	17pter	38716540	M	No
37	20	G	20pter	20pcen	M	No
37	20	L	51726146	20qter	M	No
37	22	L	21581316	22qter	M	No
38	3	L	3pter	3pcen	W	No
38	3	G	3qcen	3qter	W	No
38	4	G	4pter	4qter	W	No
38	20	G	20pter	20qter	W	No
39	4	L	4pter	42582690	M	No
39	5	G	5pter	5qter	M	No
39	8	L	8pter	8pcen	M	No
39	8	G	8qcen	8qter	M	No

39	9	L	9pter	9pcen	M	No
39	9	G	71160519	74744142	M	No
39	9	G	89078635	89761230	M	No
39	9	G	108020643	109727130	M	No
39	9	G	112628159	117235674	M	No
39	9	G	121501892	125085516	M	No
39	10	L	10pter	15645500	M	No
39	11	G	11qcen	11qter	M	No
39	15	G	15qcen	21239625	M	No
39	15	G	51023926	53709395	M	No
39	15	G	56028665	56761065	M	No
39	15	G	83005429	92770773	M	No
39	X	L	Xpter	2638435	M	No
40	1	G	1pter	50232000	P	No
40	1	G	1qcen	1qter	P	No
40	2	G	22758199	26304931	P	No
40	2	G	31920590	34285078	P	No
40	2	G	36649566	39605176	P	No
40	2	L	47585323	63841179	P	No
40	2	G	68570155	75368058	P	No
40	2	G	83939327	88372742	P	No
40	2	L	2qcen	105515281	P	No
40	2	L	122362258	127091234	P	No
40	2	L	158125140	170834263	P	No
40	2	G	172016507	178814410	P	No
40	2	L	178814410	2qter	P	No
40	3	L	3pter	3pcen	P	No
40	3	G	3qcen	3qter	P	No
40	8	G	8pter	8qter	P	No
40	9	G	9pter	9044383	P	No
40	9	L	9044383	10238924	P	No
40	9	G	10238924	9qter	P	No
40	10	L	10pter	10qter	P	No
40	11	L	11pter	11qter	P	No
40	14	G	21221957	22774783	P	No
40	14	L	22774783	14qter	P	No

40	15	L	15qcen	15qter	P	No
40	16	G	16pter	4970869	P	No
40	19	G	19pter	19qter	P	No
40	21	L	21qcen	27012975	P	No
40	X	L	Xpter	2638435	P	No
40	X	G	2638435	Xqter	P	No
41	3	G	3qcen	3qter	W	No
41	4	L	72134611	4qter	W	No
41	7	G	7qcen	76705725	W	No
41	8	L	8pter	8pcen	W	No
41	9	L	9pter	9pcen	W	No
41	9	G	9qcen	9qter	W	No
41	X	G	109306542	Xqter	W	No
42	3	L	3pter	3pcen	W	No
42	5	G	5pter	5pcen	W	No
42	5	L	5qcen	5qter	W	No
42	7	L	149160754	153604662	W	No
42	9	L	9pter	9pcen	W	No
42	9	G	9qcen	9qter	W	No
42	12	L	9499542	24473394	W	No
42	12	L	25439449	31235779	W	No
42	13	L	13qcen	13qter	W	No
42	14	L	14qcen	14qter	W	No
42	22	G	22qcen	22qter	W	No
43	3	L	3pter	3pcen	P	No
43	5	L	5qcen	5qter	P	No
43	6	G	63203891	65490873	P	No
43	6	L	65490873	93350483	P	No
43	8	L	8pter	8pcen	P	No
43	8	G	100897599	8qter	P	No
43	9	L	9pter	101194694	P	No
43	11	L	11pter	59702093	P	No
43	11	G	59702093	72133214	P	No
43	11	L	72133214	77530937	P	No
43	11	G	77530937	78512341	P	No
43	11	L	78512341	11qter	P	No

43	13	L	21245592	13qter	P	No
43	17	L	33349891	17qter	P	No
43	19	L	19pter	11954982	P	No
43	19	G	11954982	19pcen	P	No
43	22	G	22qcen	22qter	P	No
43	X	G	93664399	Xqter	P	No
44	3	L	3pter	80820084	P	No
44	3	G	84217925	84946034	P	No
44	3	L	84946034	3pcen	P	No
44	3	G	3qcen	3qter	P	No
44	5	G	5pter	5pcen	P	No
44	5	L	5qcen	5qter	P	No
44	9	L	9pter	9pcen	P	No
44	10	L	10pter	10pcen	P	No
44	10	L	43972087	10qter	P	No
44	13	L	13qcen	13qter	P	No
44	X	G	Xpter	Xqter	P	No
45	3	L	3pter	3pcen	W	No
45	3	G	3qcen	3qter	W	No
45	9	L	9pter	32423259	W	No
45	9	G	9qcen	9qter	W	No
45	10	L	5105374	10pcen	W	No
45	14	G	21480761	22127772	W	No
45	15	G	38206911	15qter	W	No
45	19	L	19qcen	56902604	W	No
45	22	G	22qcen	22qter	W	No
46	3	L	3pter	52666541	W	No
46	4	L	4pter	4pcen	W	No
46	7	U	151865741	7qter	W	No
46	8	G	96626801	8qter	W	No
46	9	L	9556330	30034176	W	No
46	9	G	9qcen	9qter	W	No
46	14	L	14qcen	33515163	W	No
47	5	G	5pter	5pcen	W	No
47	5	L	5qcen	5qter	W	No
47	9	U	9qcen	9qter	W	No

48	1	L	1pter	1pcen	M	No
48	3	L	3pter	88586578	M	No
48	3	G	88586578	3qter	M	No
48	4	L	4pter	24898076	M	No
48	4	G	24898076	4pcen	M	No
48	4	L	4qcen	70505765	M	No
48	4	G	70505765	77719226	M	No
48	4	L	77719226	84467302	M	No
48	4	G	84467302	87259610	M	No
48	4	L	87259610	4qter	M	No
48	5	L	5pter	5qter	M	No
48	7	G	7pter	66465414	M	No
48	7	L	66465414	97572773	M	No
48	8	L	8pter	37013582	M	No
48	8	G	37013582	8pcen	M	No
48	9	L	9pter	102047938	M	No
48	9	G	102047938	9qter	M	No
48	10	L	10pter	10qter	M	No
48	11	L	11pter	11pcen	M	No
48	13	L	13qcen	13qter	M	No
48	18	G	1018600	2129800	M	No
48	18	L	2129800	12408393	M	No
48	18	G	12408393	13982592	M	No
48	18	L	28242983	18qter	M	No
48	20	L	20pter	6228406	M	No
48	21	L	21qcen	21qter	M	No
48	22	G	22qcen	22qter	M	No
49	1	L	73693652	1pcen	W	No
49	7	G	7pter	7qter	W	No
50	3	L	3pter	3pcen	W	No
50	4	L	4pter	4pcen	W	No
50	9	L	9pter	99829504	W	No
50	9	G	99829504	101194694	W	No
50	9	L	101194694	9qter	W	No
50	11	G	58229987	102393178	W	No
50	11	L	102393178	11qter	W	No

50	14	U	14qcen	14qter	W	No
50	17	U	17pter	16004115	W	No
50	19	L	19qcen	19qter	W	No
51	1	G	1pter	55044646	W	No
51	3	L	3pter	3pcen	W	No
51	3	G	3qcen	3qter	W	No
51	6	G	6pter	44700120	W	No
51	9	L	17576820	33276502	W	No
51	19	G	19pter	19qter	W	No
51	22	G	22qcen	22qter	W	No
52	1	G	1pter	1qter	P	No
52	2	G	2qcen	2qter	P	No
52	3	L	3pter	3pcen	P	No
52	3	G	3qcen	3qter	P	No
52	5	G	5pter	5pcen	P	No
52	5	G	107590629	149394758	P	No
52	7	G	7pter	7qter	P	No
52	8	L	48936226	50181875	P	No
52	8	L	54808573	56054222	P	No
52	8	L	128301885	130793184	P	No
52	9	G	9pter	9qter	P	No
52	10	L	10pter	102601534	P	No
52	10	G	102601534	10qter	P	No
52	13	G	13qcen	20551292	P	No
52	13	L	20551292	113032099	P	No
52	13	G	113032099	13qter	P	No
52	14	G	14qcen	14qter	P	No
52	15	L	15qcen	43699917	P	No
52	15	G	43699917	15qter	P	No
52	16	G	16pter	16qter	P	No
52	17	L	17pter	17qter	P	No
52	19	G	19pter	19qter	P	No
52	20	G	20pter	20qter	P	No
52	21	G	21qcen	21qter	P	No
52	22	G	22qcen	22qter	P	No
53	3	L	3pter	3pcen	W	No



53	4	L	58405766	4qter	W	No
53	5	L	81848086	5qter	W	No
53	9	L	9pter	32423259	W	No
53	9	G	32423259	36348179	W	No
53	17	L	17pter	17qter	W	No
54	9	U	9pter	9pcen	W	No
54	9	U	116382431	121501892	W	No
55	5	G	5pter	5qter	W	No
55	9	L	9pter	9pcen	W	No
56	4	G	4pter	53984612	W	No
56	4	L	53984612	4qter	W	No
56	9	L	9pter	9pcen	W	No
56	14	L	14qcen	14qter	W	No
56	22	G	22qcen	22qter	W	No
57	1	G	1pter	1qter	P	No
57	2	L	2pter	2qter	P	No
57	3	L	3pter	84460628	P	No
57	3	G	84460628	3qter	P	No
57	4	L	4pter	4qter	P	No
57	5	G	5pter	5060501	P	No
57	6	G	6pter	64659243	P	No
57	6	L	64659243	6qter	P	No
57	8	G	8pter	8qter	P	No
57	9	G	9pter	9qter	P	No
57	10	L	10pter	10qter	P	No
57	11	L	11pter	11qter	P	No
57	12	L	12pter	12qter	P	No
57	13	L	13qcen	13qter	P	No
57	14	G	14qcen	14qter	P	No
57	15	L	15qcen	15qter	P	No
57	16	L	16pter	16qter	P	No
57	17	L	17pter	17qter	P	No
57	18	L	18pter	18qter	P	No
57	19	G	19pter	19qter	P	No
57	20	L	20pter	20qter	P	No
57	22	L	22qcen	22qter	P	No

57	X	L	Xpter	Xqter	P	No
58	3	L	3pter	3pcen	W	No
58	5	G	5pter	5pcen	W	No
58	5	L	5qcen	5qter	W	No
58	13	L	13qcen	57071490	W	No
58	13	G	106366816	13qter	W	No
58	19	L	19qcen	19qter	W	No
59	5	L	5pter	5qter	P	No
59	8	L	8pter	146274826	P	No
59	11	G	62809873	71151810	P	No
59	21	G	21qcen	21qter	P	No
59	22	G	22qcen	22qter	P	No
60	4	L	62035992	62798894	W	No
60	4	L	78184610	100755762	W	No
60	7	G	7qcen	7qter	W	No
60	9	U	9pter	9pcen	W	No
60	9	G	9qcen	9qter	W	No
60	14	L	22515979	24457011	W	No
60	22	L	20251375	22qter	W	No