

Table SI. Regions of copy number gain and loss, and breakpoints of balanced rearrangements observed in LA-4, with the corresponding homologous regions in humans listed by cytoband and position (GRCh37/hg19).

A, Gains			
Region	Gain	Homologue region in human	
		Cytoband	Position (GRCh37/hg19)
3G-qter	+1	4q22.3-q26	4:95284699-119338945
		1p31.3-p22.2	1:68589539-89738135
		7q11.23	7:76282730-76575579
5A1-C3	+1	7q11.23-q21.2	7:76702246-92676514
		7q22.1-q22.3	7:102331617-105210094
		7p15.3	7:22903126-23240676
		7q36.1-q36.3	7:150588373-157179154
		7q36.1	7:149628652-149959756
		7p15.3	7:22595306-22772664
		2p23.3	2:26394466-27256616
		2p23.3	2:27256674-27749458
		2p23.3-p23.2	2:27759882-29024462
		18p11.32	18:683166-844532
		22q12.2-q12.3	22:32022117-32511666
		4p16.3	4:1109142-3830658
5E2-E5	+1	4p16.3-p15.1	4:4184743-33058399
		4q13.3-21.3	4:71568508-87880973
5G1-G2	+1	7p11.2	7:56019352-56184138
		7q11.22	7:66808098-70845293
5G2-G3	+2	7q11.22	7: 70845293-72045725
		7q11.23	7:72536306-76149827
		7q22.1	7:99552841-102191754
		7p22.3-p22.1	7:169204-6771649
		7q21.3-q22.1	7:97598308-99229367
		13q12.13-q13.2	13:26784894-34260463
6B1-qter	+2	7q34-q36.1	7:140361088-149583263
		7q36.1	7:150032467-150558657
		7p15.3-p14.3	7:23254035-33103246
		4q22.1-q22.3	4:89178698-95273100
		4q27	4:121018693-122194687
		1p31.3	1:67631910-68317098
		2p11.2	2:88302422-89174373
		2p13.3-p11.2	2:68715037-87095119
		3q21.2-q21.3	3:125725101-129038484
		3p25.2-p25.1	3:12939278-15163105
		3p14.1-p12.3	3:64017713-75322601

7	+1	3p26.3-p25.2	3:61304-12897767
		3q21.3-q22.1	3:129094932-129632650
		10q11.21-q11.22	10:43277986-46218167
		12p13.33	12:66113-2823666
		22q11.1-q11.21	22:17565811-18659740
		12p13.31	12:8071763-9214464
		12p13.33-p13.31	12:2903120-7695890
		12p11.21	12:30985917-31165338
		12p13.31-p11.21	12:9901365-30943693
		12p11.21	12:31424829-32537434
		19q13.42-q13.43	19:54368915-57485284
		19q13.43	19:58523795-59089552
		19q13.31-q13.33	19:45010010-48707700
		19q12-q13.31	19:30093064-44860951
		19q12	19:28589680-30085362
		19q13.33-q13.41	19:48800017-51921957
		16p13.11	16:16252815-16388674
		11p15.1-p14.3	11:17403485-25251145
		15q11.2	15:22833222-23086601
		15q11.2-q13.1	15:23914751-28586067
		15q13.1-q13.3	15:29107424-32578594
		15q26.3	15:99080385-102265870
		15q26.1-q26.3	15:91593058-99078056
		15q25.3-q26.1	15:85829657-91565912
		15q25.1-q25.3	15:80253398-85682414
		11p11.12	11:49250334-49827246
		11q13.4-q14.3	11:71627032-89350901
		10p11.21	10:37191655-37402201
		11p15.4-p15.1	11:3631069-17360027
		16p13.11	16:15260325-15369270
		16p13.11-p12.3	16:16681590-18325190
		16p12.3-p12.2	16:18608156-21351663
		16p12.2-p11.2	16:21572755-28339524
		16p11.2	16:28390845-29030948
		16p11.2	16:29661006-31520748
		10q26.11-q26.3	10:121224592-135295738
		11p15.5-p15.4	11:192898-3098752
		11q13.3-q13.4	11:68728143-71212974
8	+2	19p13.2	19:7112183-8071013
		13q33.1-q34	13:103533915-115092930
		8p23.3-p23.2	8:591286-5358752

		8p23.2-p23.1	8:5368147-6693649
		13q14.3	13:52435459-53211718
		8p11.23-p11.21	8:36716542-42505949
		8p11.21	8:42691750-43058925
		8p12	8:29190466-36677574
		8p23.1	8:8108776-9640417
		8p23.1-p22	8:12579073-17958954
		4q32.2-q35.2	4:163504024-190884657
		8p22-p21.3	8:18227877-20177976
		19p13.12-p13.11	19:16163040-19774937
		22q12.3	22:33658332-35953121
		4q31.1-q31.23	4:141251922-150892329
		19p13.2-p13.12	19:12745060-14683008
		16q11.2-q22.1	16:46693273-69976105
		16q22.1-q24.3	16:70109527-90110030
		1q42.13-q42.3	1:229404294-235324774
		10p11.22-p11.21	10:33112469-35152269
10A1-B5	+1	6q22.31-q25.2	6:123289910-154997844
		6q16.3-q22.1	6:100545979-116923157
		6q22.1-q22.31	6:117047677-123151435
		2q12.3-q13	2:109065537-110402734
		10q21.-q21.3	10:55366623-70355497
10B5-qter	+4	10q21.3-q22.1	10:70355497-74862972
		22q11.22-q11.23	22:23396488-25031504
		21q22.3	21:45278940-48084912
		19p13.12	19:15052169-15262910
		19p13.3	19:281181-4173052
		12q23.3	12:104359309-108176937
		22q12.3	22:32783299-33472414
		12q13.2-q23.3	12:55351591-104351507
11B3-qter	+1	17p13.1-p12	17:8553782-15625804
		17q11.1-q11.2	17:25525650-28853901
		17q11.2-q12	17:29058377-36200511
		17q21.32-q23.2	17:45560334-60326198
		17q12-q21.31	17:36351926-43638822
		17q21.31-q21.32	17:43706746-45150591
		17q21.32	17:45188646-45518436
		17q23.2-q24.1	17:60483588-62760387
		17q24.1-q24.2	17:62990972-66110690
		17q24.2-q25.3	17:66224207-81175056
15A1-D3	+2	5p15.31-p12	5:8927745-42888975

15D3-qter	+1	8q22.1-q24.3	8:97446632-142736148
		8q22.1-q24.3	8:142736149-146158346
		22q12.3-q13.33	22:35962951-51222438
		12p11.1	12:33476533-34210697
17	+2	12q12-q13.2	12:38607141-55072925
		6q25.2-q25.3	6:155053083-160101646
		6q27	6:167120855-167552070
		6q25.3-q27	6:160103032-166797236
		6q27	6:167859539-170893754
		5q15-q21.1	5:96202316-98405239
		16p13.3	16:222880-3208490
		5q35.1	5:171946752-172722349
		6p21.32-p21.2	6:33359177-39058058
		21q22.3	21:43490502-45122943
		19p13.12	19:15270296-15808207
		19p13.2	19:8366687-8811037
		6p22.1-p21.32	6:29322703-33297218
		6p21.2-p12.3	6:39266498-49681826
		3p25.1-p24.3	3:16307846-20231899
		2q12.2-q12.3	2:107383985-108798215
		19p13.3	19:4229082-6862967
		5q21.1-q22.1	5:102759315-110063021
		18p11.32-p11.22	18:2534401-9972541
		2p23.2-p16.3	2:29033520-51699597
		2p16.3-p16.2	2:51709987-53282184
		18p11.32	18:861722-2534400
19	+3	11q12.1-q13.3	11:57844834-68709722
		9q21.11-q21.31	9:69086307-82777364
		2q13	2:114171139-114321953
		9p24.3-p24.1	9:51374-6659223
		10q11.23-q21.1	10:51917603-54540082
		10q23.2-q26.11	10:89234113-121219507

B, Losses

Region	Loss	Homologue region in human	
		Cytoband	Position (GRCh37/hg19)
4A1-A4	-1	6q14.3-q16.1	6:87793887-95124108
		8q12.1-q12.3	8:56650304-62695565
		8q21.3-q22.1	8:87057363-97246782
		8q12.3	8:63094926-64018516
5E5-G1	-1	4q22.1	4:88322462-89000187
		12q24.33	12:132378991-133522542

		22q11.23-q12.1	22:25201765-29156283
		12q23.3-q24.11	12:108325357-110486420
		12q24.11-q24.31	12:110488793-121497537
		12q24.31-q24.33	12:121577100-132336561
11A1-A2	-1	7p11.2	7:56019352-56019352
		22q12.1-q12.2	22:29251511-32022116
13A1-C2	-1	7p13-p11.2	7:43906144-55317931
		10p15.3-p15.1	10:138698-5865622
		1q42.3-q43	1:235330060-240084659
		7p14.2-p13	7:36524506-43605930
		6p22.3-p22.1	6:20065223-28502803
		6p25.3-p23	6:181261-15099150
		6p23-p22.3	6:15104709-20060798
		9q22.1-q22.32	9:91031851-97067712
		5q35.2-q35.3	5:173750964-177039611
		5q31.1-q31.2	5:134073478-137090938
		9q21.32-q21.33	9:86231955-90340399
		9q22.32-q22.33	9:97320957-99417669
		9p13.1	9:38810965-40707569
		9q12-q13	9:65585614-65901647
		9p11.2	9:43623473-43941731
		8q22.1	8:97247028-97373828
		5p15.33-p15.31	5:191425-7935441
		5q14.3	5:84566270-88128534
14	-1	3p14.3-p14.1	3:57993765-64009700
		3p24.3-p24.1	3:23146386-27721393
		14q22.1	14:52272055-52598781
		6p21.2	6:39069766-39266486
		10q22.1-q22.3	10:74870164-81255099
		3p21.1-p14.3	3:52350060-57931230
		3p25.1	3:15245114-16307845
		10q11.2-q11.23	10:46488677-51727392
		10q23.1-q23.2	10:82019368-88976316
		14q22.1-q23.1	14:52688635-58629894
		14q11.2-q12	14:20211286-24987352
		14q12	14:25040539-25149959
		13q12.12	13:25188452-25511922
		13q12.11	13:20207279-23370461
		13q14.2	13:49821990-50161404
		13q12.13	13:25685086-26668986
		13q12.12	13:23853398-24896355

		13q14.2-q14.3	13:50192169-52356487
		8p23.1	8:9744629-11737304
		8p21.3-p12	8:20206584-29151199
		13q14.11-q14.2	13:41469941-49799059
		13q14.3-q33.1	13:53226033-103089581
18E3-E4	-2	18q22.1-q23	18:66339761-78010601

C, Breakpoints		
Region	Breakpoint	Homologue region in human
		Cytoband
3G	t	4q22.3
4A4	t	5q14.1
4E2	t	1p36.33
5C3	t	4p14
5G2	dic	7q11.23
6A1	inv	7q21.2
6B1	t	7q34
6C1	inv	4q27
7F3	dic / neo	11p15.1
10A1	idic	no homologues
10B5	del	10q21.3
11A2	dic	7p11.2
11B3	neo	17p13.1
13C2	t	5q15
15D3	t	8q24.3
18E3	t	19p13.2
XA1	dic	no homologues