Cell Line GENETICS
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CLG Microarray Test Results

Cell Line ID: 522-2666-2 p8 **Lab #:** CLG-26699 **Date received:** 2/1/17 **Date Reported:** 3/22/17

Contact Person: Laurie Martineau **PI:** Jack Puymirat **Institute:** CHU de Quebec

Test Code: aCGH 100 **Email:** laurie.martineau@crchudequebec.ulaval.ca **PO #:** 3310400

Mailing Address: Hopital de I'Enfant-Jesus, 1401 18e Rue, Quebec, Qc Canada, G1J 1Z4

Sample Type: Human iPSC Frozen Cells **dsDNA Concentration:** 165 ng/µl **Total dsDNA:** 5.77 ug

Sex: Male **260/280 (1.7-1.9):** 1.8 **260/230 (≥1.90):** 2.18 **Array Type:** Agilent 60K Standard aCGH

Array ID Number: 252192437471_1_1 **Reference DNA:** Agilent Euro Male

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Quality Control

A sufficient amount of high quality genomic DNA, as determined by UV spec. (NanoVue), fluorometer (Qubit) and Agarose Gel analysis, was extracted from cell line 522-2666-2 p8 and passed our internal quality standards for aCGH labeling.

aCGH Probes (PASS/FAIL): Pass

Experimental Deviations**:** None

Results:

See attached sheets for Tabular and Graphical presentation of microarray results.

Variants are considered provisional until confirmed by another technique. For further confirmation of a particular variant, CLG recommends using Karyotyping (variants >5Mb), FISH (variants>200Kb).

Amp/Deletion Table									
Chr	Amp/Del	Start (bp)	Stop (bp)	Size(kb)	Chr Band	# Probes	Log2 Ratio	Genes[α]	Overlap Normal CNVs?[β]
1	Del	149,079,747	149,871,335	792	q21.2	10	-0.50871	PPIAL4A, FCGR1A, HIST2H3C, HIST2H2BE, HIST2H2AC, HIST2H2AB, BOLA1, NBPF25P, LOC388692, FAM231D, FCGR1CP, RNVU1-19, PPIAL4C, LINC00623, LINC00869, LOC103091866, RNVU1-20, HIST2H2BF, HIST2H3D, HIST2H4A, HIST2H4B, HIST2H3A, HIST2H2AA4, HIST2H2AA3, HIST2H2BC	No
2	Del	89,203,343	89,475,431	272	p11.2	4	-1.76148		Yes
6	Del	26,017,272	26,246,898	230	p22.2	21	-0.59809	HIST1H1A, HIST1H3A, HIST1H4A, HIST1H4B, HIST1H3B, HIST1H2AB, HIST1H2BB, HIST1H3C, HIST1H1C, HFE, HIST1H4C, HIST1H1T, HIST1H2BC, HIST1H2AC, HIST1H1E, HIST1H2BD, HIST1H2BE, HIST1H4D, HIST1H3D, HIST1H2AD, HIST1H2BF, HIST1H4E, HIST1H2BG, HIST1H2AE, HIST1H3E, HIST1H1D, HIST1H4F, HIST1H4G	Yes
6	Del	27,737,398	27,861,243	124	p22.1	17	-0.5268	HIST1H2BL, HIST1H2AI, HIST1H3H, HIST1H2AJ, HIST1H2BM, HIST1H4J, HIST1H4K, HIST1H2AK, HIST1H2BN, HIST1H2AL, HIST1H1B, HIST1H3I, HIST1H4L, HIST1H3J, HIST1H2AM, HIST1H2BO	No
7	Amp	55,800,753	57,494,441	1,694	p11.2	20	0.329844	SEPT14, ZNF713, MRPS17, GBAS, PSPH, CCT6A, SUMF2, PHKG1, CHCHD2, SNORA15, NUPR2, LOC650226, LOC100240728, DKFZp434L192, LOC101928401, LOC401357, LOC100130849, MIR4283-2, MIR4283-1, ZNF479, GUSBP10, MIR3147	No

10	Amp	135,276,496	135,372,492	96	q26.3	4	0.975491	CYP2E1, SYCE1, SCART1	Yes
12	Del	56,498,888	56,513,127	14	q13.2	4	-0.77752	PA2G4, RPL41, ZC3H10	Yes
13	Amp	113,821,271	114,272,122	451	q34	20	0.320319	PROZ, PCID2, CUL4A, LAMP1, ADPRHL1, TFDP1, MIR8075, GRTP1, GRTP1-AS1, LOC101928841, DCUN1D2, TMCO3	No
14	Del	20,923,708	20,927,766	4	q11.2	5	-0.61733	APEX1, TMEM55B	No
17	Del	33,687,356	33,738,467	51	q12	3	-0.8483	SLFN11, SLFN12	Yes
19	Amp	19,958,587	24,340,741	4,382	p13.11 - p12	82	0.318013	Too Numerous to List	No
21	Amp	9,832,448	9,834,323	2	p11.2	16	0.546143		No

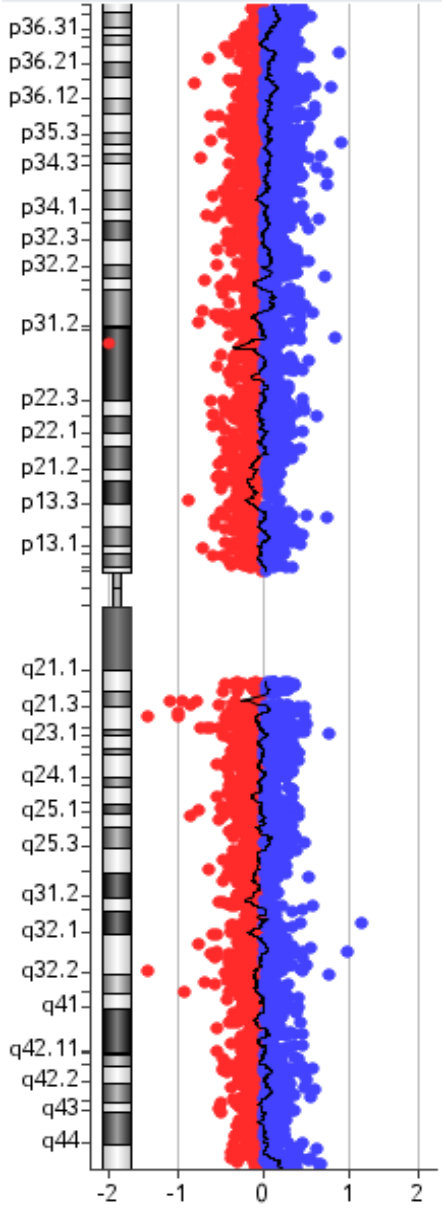
Total Amp/Del: 11

[α] Genes amplified or deleted are cross referenced against the Online Mendelian Inheritance in Man® (OMIM®) database. Genes well documented with disorders and morbidity are Orange. Genes with some association with disease are Teal. Genes in Black have no known association with disease.

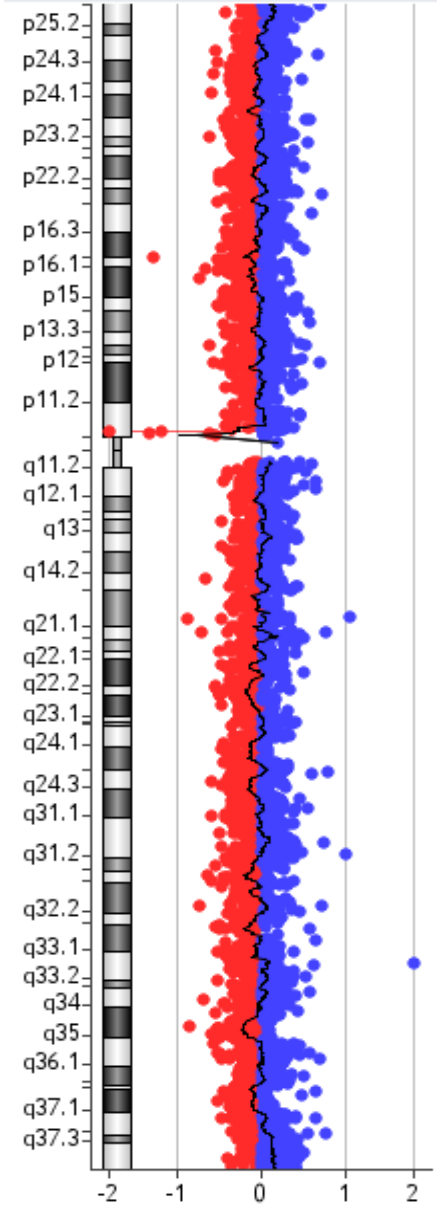
[β] Amplifications and deletions are cross referenced against the Database of Genomic Variants (DGV), which contains genomic variations observed in healthy individuals.

CLG-26699
522-2666-2 p8

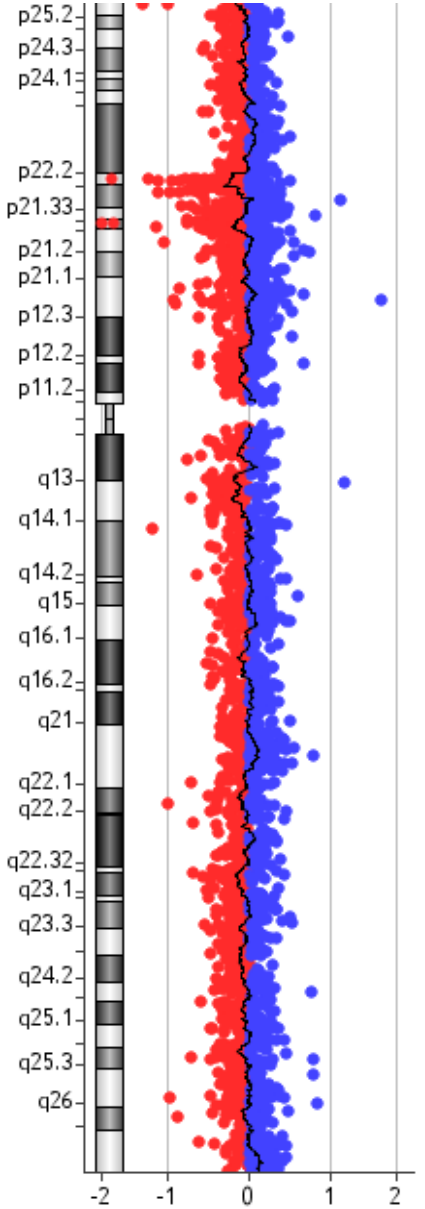
Chromosome 1
aCGH



Chromosome 2
aCGH

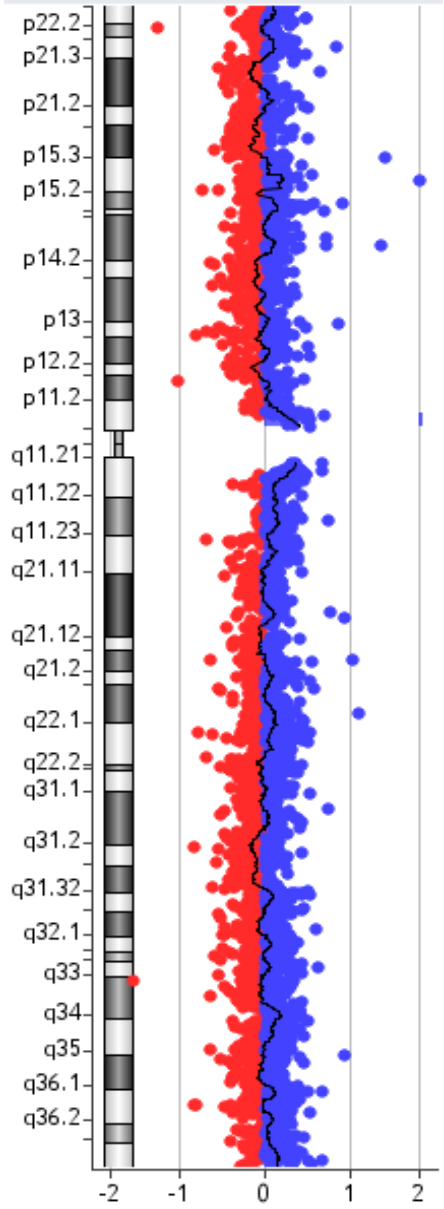


Chromosome 6
aCGH

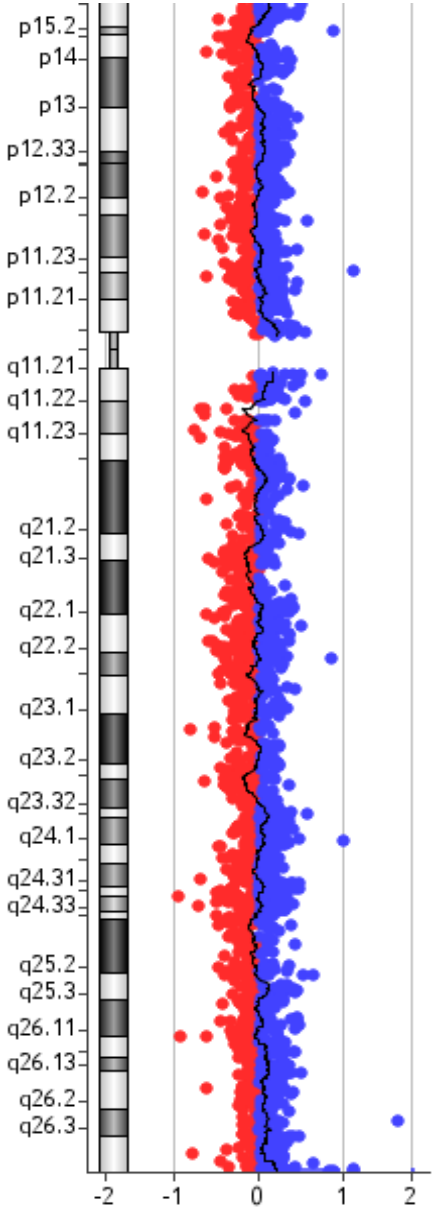


CLG-26699
522-2666-2 p8

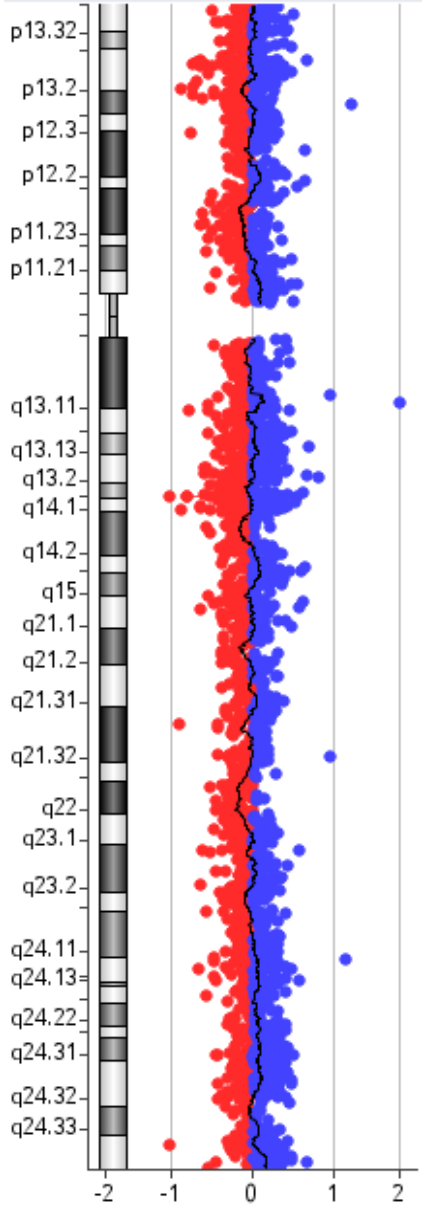
Chromosome 7
aCGH



Chromosome 10
aCGH

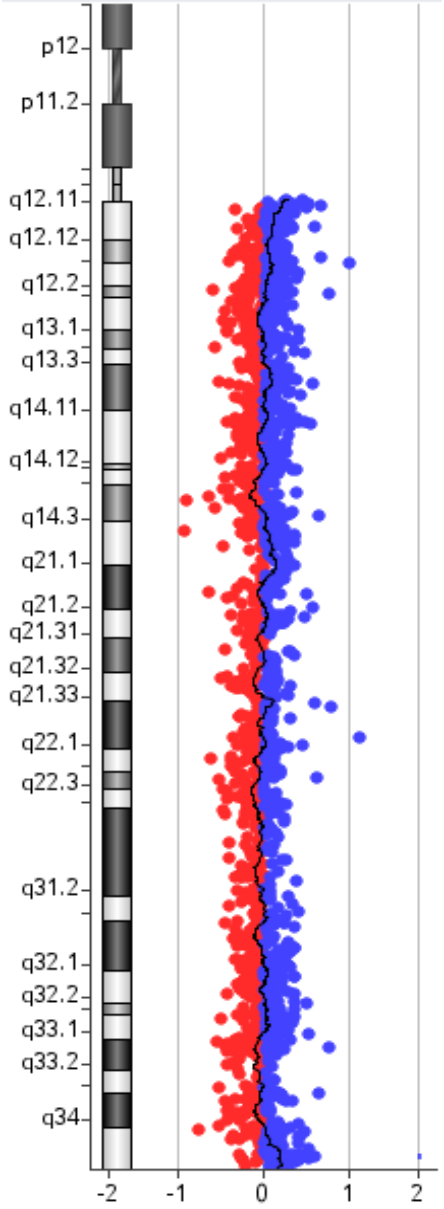


Chromosome 12
aCGH

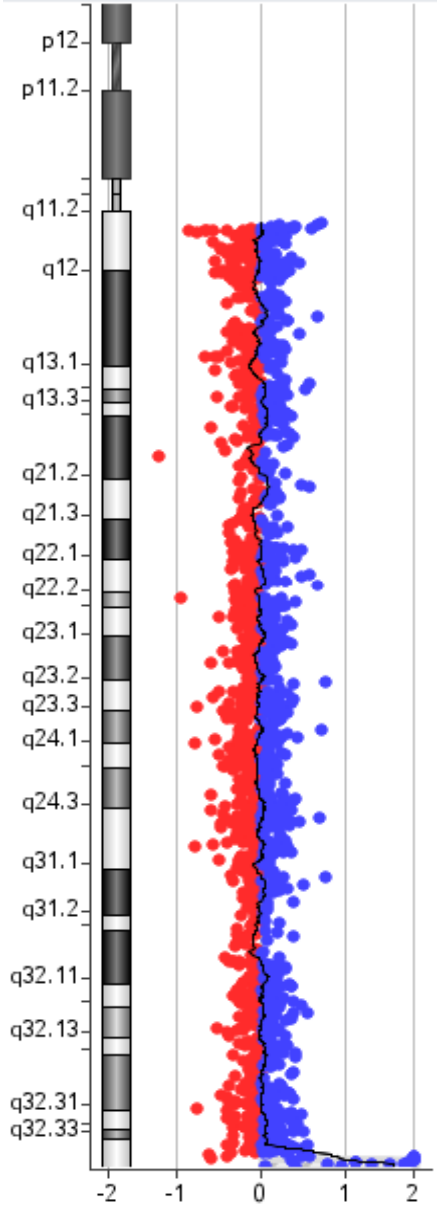


CLG-26699
522-2666-2 p8

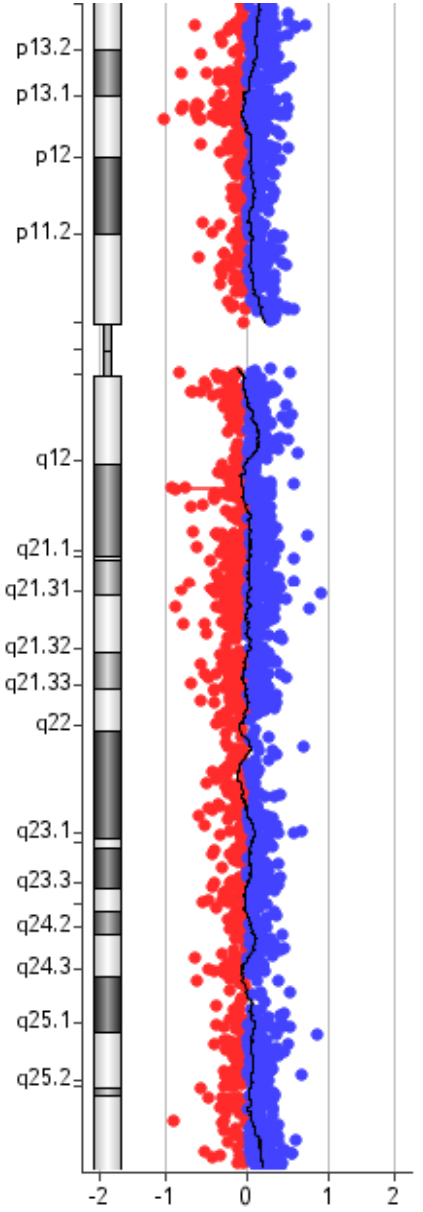
Chromosome 13
aCGH



Chromosome 14
aCGH

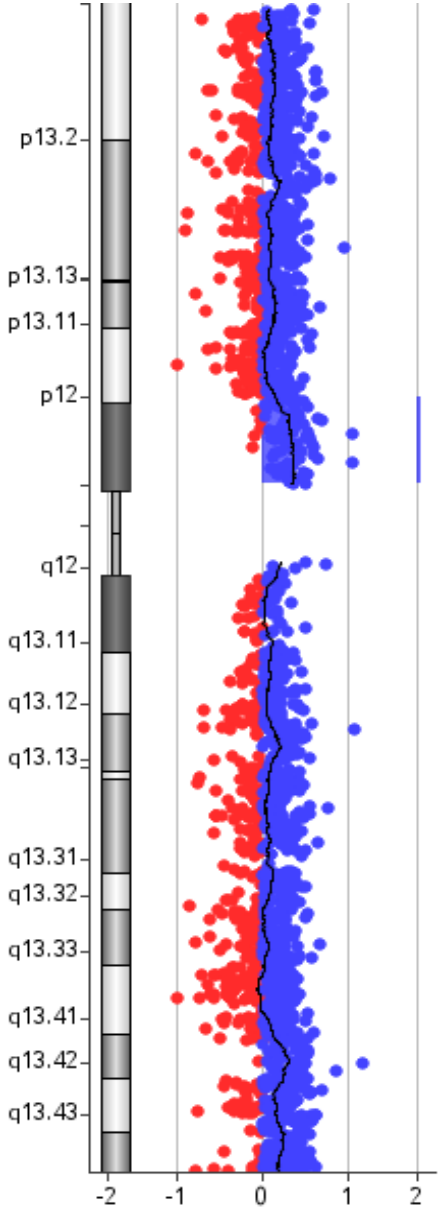


Chromosome 17
aCGH



CLG-26699
522-2666-2 p8

Chromosome 19
aCGH



Chromosome 21
aCGH