

Report Date: March 23, 2012

Cell Line: RIV 7

Passage #: 16

Date of Sample: 3/15/2012

Date Completed: 3/23/2012

Specimen: iPSC on Matrigel

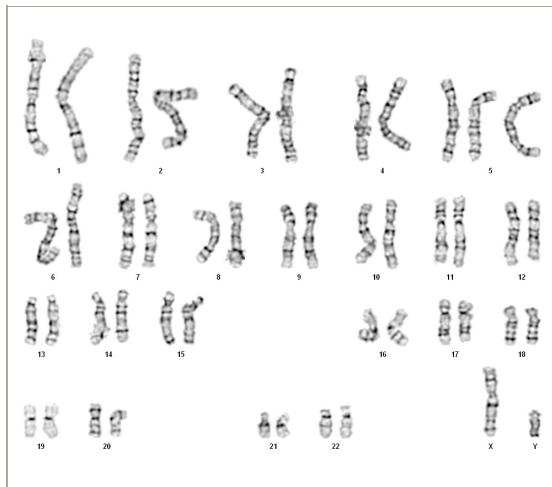
Cell Line Gender: Male

Reason for Testing: new line

Investigator: Duncan Liew, UC Riverside

Results: 47,XY,+5[6]/46,XY[12]

Non-clonal Findings: 48,XY,+i(3)(p10),+5 47,XY,+12



Cell: S01-24

Slide: 2(19)KARYOTYPE

Slide Type: Karyotyping

of Cells Counted: 20

of Cells Karyotyped: 4

of Cells Analyzed: 9

Band Level: 450-525

Interpretation:

This is an abnormal karyotype, with trisomy 5 as the only clonal aberration detected. Trisomy 5 was found in seven of twenty cells examined. There were two non-clonal findings: one cell with trisomy 5 also has an isochromosome (i) of the short (p) arm of chromosome 3 and one cell has trisomy for chromosome 12. Trisomy 12 is a common acquired abnormality in pluripotent stem cell cultures. Non-clonal findings may be due to technical artifact, a developing clonal abnormality, or a low-level mosaicism. No abnormalities were found in twelve cells.

Completed by Kim Leonhard, CG(ASCP), on 3/23/2012

Reviewed and interpreted by Karen Dyer Montgomery, PhD, FACMG, on 3/23/2012

A signed copy of this report is available upon request.

Date: _____

Sent To: _____

Sent By: _____

QC Review By: _____

Limitations: This assay allows for microscopic visualization of numerical and structural chromosome abnormalities. The size of structural abnormality that can be detected is >3-10Mb, dependent upon the G-band resolution obtained from this specimen. For the purposes of this report, band level is defined as the number of G-bands per haploid genome. It is documented here as "band level", i.e., the range of bands determined from the four karyograms in this assay. Detection of heterogeneity of clonal cell populations in this specimen (i.e., mosaicism) is limited by the number of metaphase cells examined, documented here as "# of cells counted".

This assay was conducted solely for listed investigator/institution. The results may not be relied upon by any other party without the prior written consent of the Director of the WiCell Cytogenetics Laboratory. The results of this assay are for research use only. If the results of this assay are to be used for any other purpose, contact the Director of the WiCell Cytogenetics Laboratory.