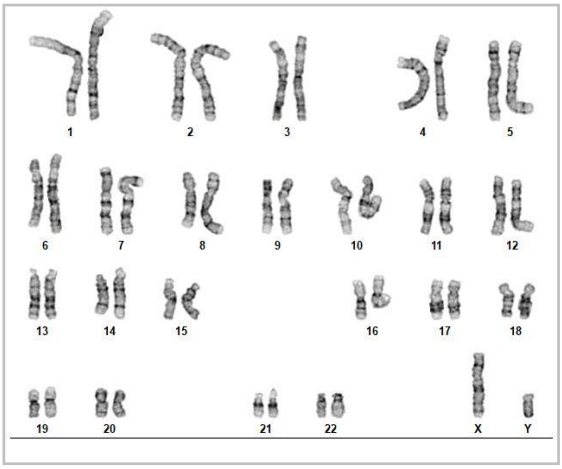
Chromosome Analysis Report: 110923

Date Reported: March 23, 2026
Cell Line: PiZZ2_Em-Z / Em-Z
Submitted Passage #: 39
Date of Sample: 3/18/2026
Specimen: Human IPSC
Results: 46,XY

Cell Line Sex: Male
Reason for Testing: Got these cells knocked-in using CRISPR and so need to verify the normal karyotype
Investigator: Shubham Kesarwani, Boston University

Nonclonal findings: 47,XY,+Y



Cell: 37
Slide: G02
Slide Type: Karyotype

Total Counted: 40
Total Analyzed: 8
Total Karyogrammed: 4
Band Resolution: 475 - 550

Interpretation:

This is a normal karyotype; no clonal abnormalities were detected at the stated band level of resolution.

There is a nonclonal finding, listed above, which contains a chromosomal aberration (gain of chromosome Y) recurrently acquired in pluripotent stem cell cultures. An additional twenty cells were examined for this chromosomal aberration; it was not observed. Nonclonal findings may result from technical artifact, but may be due to a developing clonal abnormality or to low-level mosaicism.

Completed by: Davena Lira, CG(ASCP)
Reviewed and Interpreted by: Justin Schleede, PhD, FACMG

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Date:_____ **Sent By:**____ **Sent To:**_____ **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".

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