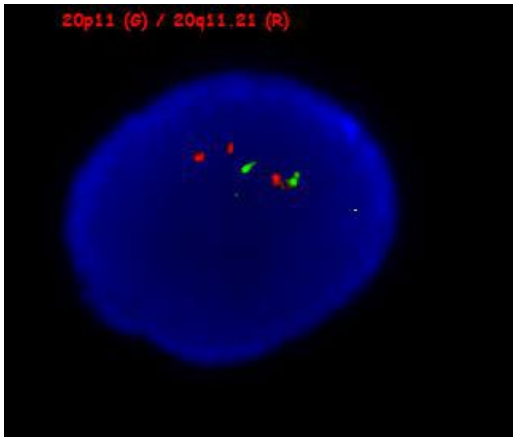
Fluorescence In-Situ Hybridization (FISH) Report: 097371

Date Reported: Friday, June 2, 2023
Cell Line Sex: Female
Cell Line: Sample Report
Reason for Testing: LOT_RELEASE
Submitted Passage #: 27
Date of Sample: 5/30/2023
Investigator: WiCell Stem Cell Bank, WiCell
Specimen: Human ESC
Results:

Probe	# of cells with 1G1R pattern	# of cells with 2G2R pattern	# of cells with 2G3R pattern	# of cells with 3G3R pattern	# of cells with 3G2R pattern	# of cells with 2G4R pattern
20p11 (G) / BCL2L1 (R)	1 / 200 (0.5%)	142 / 200 (71.0%)	53 / 200 (26.5%)	2 / 200 (1.0%)	1 / 200 (0.5%)	1 / 200 (0.5%)
Cutoff	4%	N/A	5%	3%	3%	3%

Probe: 20p11 (G) / 20q11.21 (R)



Results: The results as observed during scoring. Only signal patterns observed are listed. The cutoffs for each signal pattern are listed below and determined during the probe validation.

Interpretation: A more in depth explanation of the results and whether the sample is normal or abnormal.

Interpretation:

There is evidence of duplication of the BCL2L1 gene. Fifty-three of two hundred (26.5%) interphase cells examined show three probe signals for the 20q11.21 (BCL2L1) and two signals for the 20p11.21 regions.

The Empire Genomics red probe mapping to BCL2L1 at 20q11.21 and the Empire Genomics green probe mapping to the alpha satellite DNA at 20p11.21 (BCL2L1/CON20) were hybridized to this specimen, resulting in the signal patterns in interphase nuclei reported in the table and shown in the images above. The probes used for this assay were validated in this laboratory using guidelines established by the American College of Medical Genetics, NCCLS, and described in Wiktor et al., Genetics in Medicine 89(1),16-23 (2006) and Wolff et al., Journal of Molecular Diagnostics 9(2),134-143 (2007). The WiCell Cytogenetics Laboratory has established and verified the assay's performance.

Completed by: TECHNOLOGIST NAME

Reviewed and Interpreted by: DIRECTOR NAME

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Date:_____ **Sent By:**____ **Sent To:**_____ **QC Review By:** ____