

Chromosome Analysis Report

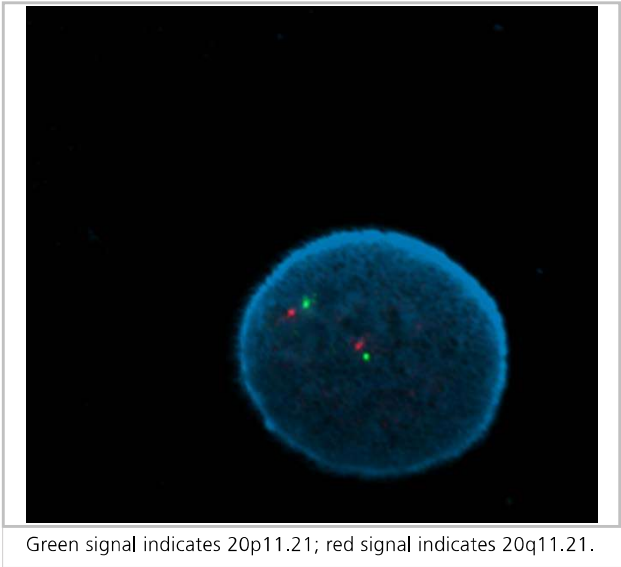
20q11.21 (BCL2L1) FISH Analysis

Report Number: CG00-12345

Order Number: 0012345678

Investigator	Jane Doe		
Institute	STEMCELL Technologies		
Sample ID	SCTi004-A		
Submitted Passage #	26	Sample Received	November 26, 2024
Sample Type	Human iPSC	Report Date	December 9, 2024

FISH Signal Pattern:



Cell Type (Classes)	Number of Cells	% of Population
2R2G	234	94.4%
1R2G	2	0.8%
1R1G	5	2%
2R1G	1	0.4%
3R3G	3	1.2%
≥3R2G	3	1.2%
Total Classified	248	100%

Result	nuc ish(CEN20p,BCL2L1)x2[248]
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Reported Findings:

Fluorescence in situ hybridization (FISH) analysis revealed no evidence of BCL2L1 amplification, 20q deletion, 20q duplication, or aneuploidy for chromosome 20 beyond expected background levels.

Interpretation:

Negative for BCL2L1 gain/loss by FISH.

Methodology:

Cell cultures were harvested, and chromosomes were analyzed using a probe set specific for the BCL2L1 gene locus at band 20q11.21 (red signal) and a control probe at band 20p11.21 (green signal). A minimum of 200 interphase cells were analyzed and categorized by respective signal pattern, with results compared against probe-specific threshold levels. Results are reported according to the International System for Human Cytogenomic Nomenclature (ISCN) (2020). Test results are for informational use only and not for diagnostic or therapeutic purposes.

Technical Considerations:

Interphase fluorescence in situ hybridization (FISH) describes the presence or absence of locus-specific DNA probes and can be used to detect specific aneuploidies, deletions, duplications, and amplifications. Detection is sensitive to sub-megabase level changes but is limited to the targeted genomic region analyzed. Mosaicism can typically be identified at levels of 5–10%, depending on the number of interphase nuclei analyzed.

(Name of Quality Team Reviewer)

(Signature of Reviewer)

For additional support, please contact the STEMCELL Product and Scientific Support Team at 1-800-667-0322 or email techsupport@stemcell.com