Case #: 012345



Results: The results listed using the International System for Human Cytogenomic Nomenclature (ISCN). Any calls from the call table that are above the aberration size criteria will be listed.

Cell Line: Sample Name

Microarray Analysis Report: 012345

Date Reported: Tuesday, August 1, 2023

Cell Line: Sample Name

Submitted Passage #: None Given

Date of Sample: 7/13/2023

Specimen: Human T Cells

Cell Line Sex: Male

Reason for Testing: QC testing

Barcode: 012345678900

Position: R06C01

Investigator: WiCell Stem Cell Bank, WiCell

Microarray Results: arr(X,Y)x1,(1-22)x2 ✓

Call Table:

Shows the number of copies observed

Aberration Criteria:

Gain or Loss: >400kb

LOH: >5Mb

| Chromosome Region (GRCh37/hg19) | Cytoband | Event (% mosaic) | Estimated Copy Number | Length (Base pairs) | Gene Count |
|------------------------------------|--------------|-------------------------|--------------------------|------------------------|---------------|
| chr7:38,311,831-38,338,251 | 7p14.1 | Homozygous Copy Loss | 0 | 26,421 | 1 |
| chr7:142,023,396-142,046,091 | 7q34 | CN Loss | 1 | 22,696 | 0 |
| chr12:7,991,000-8,113,376 | 12p13.31 | CN Gain | 3 | 122,377 | 2 |
| chr14:22,790,594-22,961,867 | 14q11.2 | Homozygous Copy Loss | 0 | 171,274 | 1 |
| chr14:106,029,590-106,066,706 | 14q32.33 | CN Loss | 1 | 37,117 | 0 |
| chr14:106,067,118-106,127,700 | 14q32.33 | Homozygous Copy Loss | 0 | 60,583 | 2 |
| chr14:106,133,067-106,194,562 | 14q32.33 | CN Loss | 1 | 61,496 | 1 |
| chr17:44,165,803-44,399,988 | 17q21.31 | CN Gain | 3 | 234,186 | 4 |
| chr19:6,890,202-7,105,830 | 19p13.3p13.2 | CN Gain | 3 | 215,629 | 9 |

Interpretation:

- There were 0 reportable copy number changes as well as 0 reportable regions of LOH identified.
- · The UCSC Genome Browser (https://genome.ucsc.edu/) and DECIPHER (https://decipher.sanger.ac.uk/search) may provide additional information on regions of interest.

Results Completed by: TECHNOLOGIST NAME
Reviewed and Interpreted by: DIRECTOR NAME

Interpretation: A more in depth explanation of the results and what the calls might mean.

Call Table: All calls

found during analysis

are listed in this table.

Specifications:

- · Platform: Illumina Global Diversity Array with Cytogenetics-8 (GDACyto)
- · Marker coverage: 1,825,277 spanning whole human genome
- · Analysis software: NxClinical (Via) 6.1 Software
- · Array design, genomic position, genes and chromosome banding are based on genome build GRCh37/hg19.
- · Aberrant copy number genomic regions are identified by log R ratio (LRR) and B allele frequency (BAF). LRR is the log ratio of observed probe intensity to expected intensity, deviations from zero are evidence for copy number change. BAF is the proportion of hybridized sample that carries the B allele: 0.0, 0.5, and 1.0 are expected for each locus in a normal sample. Deviations from this expectation are indicative of aberrant copy number.
- · Quality assurance monitors: 1) Call Rate; 2) Confidence Threshold; 3) LogRDev; 4) Illumina sample dependent/independent QC measures

This assay was conducted solely for listed investigator/institution. The results of this assay are for research use only. Unless otherwise mutually agreed in writing, the services provided to you hereunder by WiCell Research Institute, Inc. ("WiCell") are governed solely by WiCell's Terms and Conditions of Service, found at www.wicell.org/privacyandterms. Any terms you may attach to a purchase order or other document that are inconsistent, add to, or conflict with WiCell's Terms and Conditions of Service are null and void and of no legal force or effect.

Case #: 012345 Cell Line: Sample Name

- · Reportable copy number changes are gains or losses greater than 400kb. Reportable regions of LOH are greater than 5Mb. See Interpretation for copy number changes and regions of LOH that meet these criteria. See Call Table for all copy number changes identified by the analysis software. If mosaicism is detected, the approximate percentage of mosaicism is listed in the 'Variant Type (% mosaic)' column.
- · The assay is currently validated for the detection of copy number losses greater than 20-kilobases (kb) in size and copy number gains 50-kb in size (smaller changes may be detected depending on gene content and probe number but will not be included in the Call Table). From internal validation studies, abnormalities present in a mosaic state are reliably detected if the mosaicism level (percentage of abnormal cells) is 20% or higher.
- · Sample intensities were compared to standard cluster file intensities comprised of over 100 samples from Caucasian(CEU), Asian(CHB+JPT), and Yoruban(YRI) HapMap populations.

Limitations: This assay will detect aneuploidy, deletions, and duplications of represented loci, and regions of loss/absence of heterozygosity (LOH), but will not detect balanced alterations (reciprocal translocations, Robertsonian translocations, inversions, and insertions), or point mutations. Based on the results of internal validation studies, abnormalities present in a mosaic state are reliably detected if the mosaicism level (percentage of abnormal cells) is 20% or higher. The failure to detect an alteration at any locus does not exclude all anomalies at that locus. Significance of the number of probes used to detect an aberration has not been determined and confirmational testing may be informative. Actual chromosomal localization of copy number change is not determined by this assay. Other mapping procedures are required for determining chromosomal localization.

| For internal use only | | | |
|-----------------------|----------|----------|---------------|
| Date: | Sent By: | Sent To: | QC Review By: |