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**Lab Dept:** Anatomic Pathology

**Test Name:** **COMPARATIVE GENOMIC HYBRIDIZATION (CGH)  
WITH LIMITED GBAND STUDY**

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***General Information***

**Lab Order Codes:** CGLBN

**Synonyms:** Comparative Genomic Hybridization, Microarray; aCGH with Limited G Band

**CPT Codes:** 81228 – Cytogenomic constitutional microarray analysis  
88230 – Tissue culture for non-neoplastic disorders; lymphocyte  
88261 – Chromosome analysis; count 5 cells, 1 karyotype with banding

**Test Includes:** Microarray with chromosome analysis by G-banding.

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***Logistics***

**Test Indications:** For detection of small duplications and deletions in patients with normal G-banded karyotypes. For characterization of abnormalities detected by G-banding

**Lab Testing Sections:** Anatomic Pathology - Sendouts

**Referred to:** Fairview University Medical Center – Cytogenetics Lab (CGL)

**Phone Numbers:** MIN Lab: 612-813-6280

STP Lab: 651-220-6550

**Test Availability:** Daily, 24 hours

**Turnaround Time:** Performed Monday-Friday. Results are reported within 28 days.

**Special Instructions:** Please see Container and Draw Volume

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***Specimen***

**Specimen Type:** Whole Blood

**Container:** Green (sodium heparin, no gel) **AND** Lavender (EDTA) top tubes  
**Both tubes are required.**

**Note:** A Yellow (ACD) tube can be substituted for the Lavender top tube.

<b>Draw Volume:</b>	20 mL (10 mL per tube) (Minimum: 10 mL [5 mL per tube]) blood  <b>Note:</b> 1-3 mL per tube Minimum for infants and children, with 3 mL strongly preferred
<b>Processed Volume:</b>	Same as Draw Volume
<b>Collection:</b>	Routine Venipuncture
<b>Special Processing:</b>	Lab Staff: Do Not Centrifuge. Specimen should remain in the original collection container. Store and ship at room temperature. Order in Atlas for communication to Fairview. Do not freeze or refrigerate. Must arrive within 24 hours of collection.
<b>Patient Preparation:</b>	None
<b>Sample Rejection:</b>	Clotted or frozen sample; mislabeled or unlabeled specimens

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### ***Interpretive***

<b>Reference Range:</b>	Interpretive report
<b>Critical Values:</b>	N/A
<b>Limitations:</b>	Post-natal studies only.
<b>Methodology:</b>	Microarray with chromosome analysis by G-banding
<b>References:</b>	Fairview Diagnostic Laboratories – Cytogenetics Lab <a href="http://labguide.fairview.org/showTest.asp?testid=4208">http://labguide.fairview.org/showTest.asp?testid=4208</a> November 2015