

<b>Cytogenetics</b>	
<b>Service Title</b>	Cytogenetics Whole-Genome 2.7M assay
<b>Workflow Code</b>	Service
<b>Short Service Description</b>	Developed specifically for cytogenetics research.
<b>Base Price (Price per unit)</b>	Price on enquiry
<b>Turn Around Time</b>	4 working days
<b>Detailed Description and Background</b>	
<p>The Cytogenetics Whole-Genome 2.7M array contains 2.7 million markers across the genome and includes 400,000 SNPs. This high performance assay enables screening for aberrations at a level of detail not possible with karyotyping or fluorescent in situ hybridisation (FISH) detecting the smallest structural changes and regions of autozygosity. Control DNA is included to monitor the assay performance.</p>	
<b>Service Details</b>	
<p>There is no limit on size number. DNA must be of good quality (good 260/280 ratios 1.8 - 2.1; 260/230 ratios &gt;1.8), non-degraded and not contaminated with PCR products. DNA concentration should 100ng/ul. The assay entails whole genome amplification followed by purification and quantification, fragmentation and labelling and finally hybridisation to array. Data is analysed in Affymetrix Chromosome Analysis Suite (ChAS).</p>	
<b>Service Deliverable</b>	
<p>Following initial analysis in Chromosome Analysis Suite, the raw data and a data QC report is sent to the client. Please note: the CPGR is not registered to interpret the clinical result..</p>	
<b>Sample/Info Submission Info</b>	
<p>One sample per array. At least 100 ng of good quality DNA (in RNase free water) is required at a minimum concentration of 70ng/ul, 260/280 ratios 1.8-2.1 and 260/230 ratios &gt;1.80. Samples should be submitted on dry ice with a sample submission form (this will be sent to the client in advance) providing all the sample details required. Samples are run in batches of 24.</p>	
<b>Pricing Details</b>	Price on request
<b>Key Words</b>	Molecular cytogenetics, chromosome aberrations, SNPs, regions of autozygosity, DNA
<b>Sample Shipping Address</b>	Institute of Infectious Disease and Molecular Medicine, UCT, Faculty of Health Sciences, Wernher and Beit Building, Level 2, Lab S2.09, Anzio Road, Observatory, Cape Town 7925, South Africa
<b>Related services</b>	custom q-PCR, Bioinformatics

