


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

 <p>Accredited to ISO 15189:2022</p>	Genomics England Limited	
	Issue No: 011 Issue date: 11 October 2024	
<p>Level 21 One Canada Square Canary Wharf London E14 5AB</p>	<p>Contact: Stephen Street-Howard Tel: +44 (0)808 2819 535 E-Mail: Stephen.Street-Howard@genomicsengland.co.uk Website: https://www.genomicsengland.co.uk/</p>	
Testing performed at the above address only		

DETAIL OF ACCREDITATION

Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
Whole human genome sequencing data from an external source	<p>Bioinformatics Identification of Somatic and Germline regions in cancer patients which contain potentially actionable variants as follows:</p> <p>Germline Single Nucleotide Variants (SNVs) including DPYD variants with potential drug toxicity implications Indels Copy Number Variants (CNVs) larger than 2kb in size</p> <p>Somatic Single nucleotide variants (SNVs) Indels Copy number variants (CNVs) Structural Variant (SVs) incl.</p> <ul style="list-style-type: none"> SSX fusions Internal tandem duplications (ITDs) 	<p>Documented in-house methods:</p> <p>Alignment, Variant calling, QC steps and checks and identification of potentially clinical actionable variation from WGS data from cancer samples</p> <p>Germline genome alignment Dragen aligner</p> <p>Somatic genome alignment Dragen aligner</p> <p>Germline variant callers Dragen variant caller (small variants and copy number variants)</p> <p>Somatic variant callers Strelka (SNVs and indels)</p> <p>Canvas (CNVs) Manta (SVs) JuLI (SSX fusions) Pindel (ITDs)</p> <p>Software and platforms Bertha Orchestrator (Workflow manager) Open CGA (LIMS) Cellbase (Genomic reference and annotation database) PanelApp (Knowledgebase of gene phenotype association) Interpretation Portal Decision Support Software (DSS))</p> <p>SOPs: GUI-BIO-010 Cancer Genome Analysis Guide SOP-BIO-005 Cancer Bioinformatics Pipeline</p>



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Genomics England Limited
Issue No: 010 Issue date: 11 October 2024

Testing performed at main address only

Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<p>Whole human genome sequencing data from an external source (cont'd)</p>	<p><u>Bioinformatics</u> (cont'd)</p> <p>Identification of variants (as listed below) with potential diagnostic utility in genomes of individuals or families with rare diseases.</p> <p>Single Nucleotide Variants (SNVs) Indels Short tandem repeats (STRs) Copy number variants (CNVs) larger than 2kb in size</p>	<p>Documented in- house methods:</p> <p>Alignment, Variant Calling, QC steps and checks and identification of potentially clinically actionable variation from WGS data from affected individuals with rare disease and their family members</p> <p>Genome alignment Dragen Aligner</p> <p>Variant Callers Dragen variant caller (SNVs/Indels) Dragen/ExpansionHunter (STRs) Dragen (CNVs >2kb) and Manta (CNVs 2-10kb)</p> <p>Software and platforms Bertha (Workflow manager) Family selection workflow (assurance check) Genetic v reported (assurance check) Open CGA (LIMS) Exomiser (Variant prioritisation) PanelApp (Knowledgebase of gene phenotype association) Cellbase (Genomic reference and annotation database) Interpretation Portal Congenica (Decision Support Software) Clinical Variant Ark (CVA, Knowledgebase)</p> <p>SOPs: GUI-BIO-009 Rare Disease Genome Analysis Guide SOP-BIO-032 Rare Disease Pipeline For GMS</p>

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