

GENERAL INFORMATION

Below are list of Assays for Medical Genomic Services using Next Generation Sequencing.

For Medical Pathogen Identification Services please refer to **MBG-C0019**.

For other assays not listed below, individual projects and any other research collaborations, please contact MBG Centre for further information.

The recommended sample types are as per published recommendations. Please contact MBG Centre for alternative sample type suitability.

All samples should be freshly collected and transported at 4°C following below guidelines.

Notes:

- The Turn-around times (TAT) indicated are only inclusive of working days.
- Samples delivered before 11:00am will begin processing immediately resulting in shorter turnaround times.
- For Price details please contact MBG.
- For whole genome sequencing assay; MBG Centre recommends analyzing relatives (proband plus parents; or siblings) to provide the most accurate interpretation.

***For Single Stranded RNA viruses:**

- Culture samples must be sent frozen or in RNA preservative media.
- If samples for RNA virus testing are not in RNA preservative media they must be frozen immediately and transported in the same condition.

Assay Code	ASSAY NAME	No. Genes (Coverage)	Genes included	Recommend ed sample types	TAT	Accreditation
WHOLE GENOME SEQUENCING						
HGG-125	Human Whole Genome Sequencing	WGS (30x)	Whole Genome	EDTA Blood	25-30 days	Validated kit-based assay
METAGENOMICS						
HGT-161	Microbial Whole Genome Analysis*	N/A	Shotgun Sequencing	Isolates	15-20 days	Validated kit-based assay
HGT-162	Metagenomics - Microbial 16S Analysis	1 (>100X)	16s rRNA sequencing Bacterial Identification	Numerous	15-20 days	Validated in-house developed assay
HGT-203	Metagenomics - Microbial 18S Analysis	1 (>100X)	18s rRNA sequencing Bacterial Identification	Numerous	15-20 days	Validated in-house developed assay
MITOCHONDRIAL ANALYSIS						
HGT-159	Whole Mitochondrial DNA (mtDNA) Sequencing	WGS (mtDNA)	Whole Mitochondrial DNA (mtDNA)	Numerous	30-35 days	Validated in-house developed assay