

Sequencing Core Facility



NATIONAL INSTITUTE FOR
COMMUNICABLE DISEASES

Division of the National Health Laboratory Service

Sequencing Core Facility (NICD)

Number: +27(0)11 555 0450

Updated: 6 MAY 2024

Email: Sequencing@nicd.ac.za

Request for DNA or RNA Sequencing Services

Name and Surname:

Institution:

Centre/Department:

E-mail address:

Contact number:

Date:

Samples names:

Please complete sample names in the next sheet

Sample type:

If other, please specify:

Genome size (MB):

Sequencing coverage:

Sample description:

Total number of samples:

Sample QC:

Sample purity:

Sample handling after NGS:

PLEASE NOTE:

DNA Input Recommendations: >50 ng of DNA, non-degraded and free of particulate matter, double-stranded DNA > 70 bp; OD_{260/280} > 1.8, minimum concentration 5 ng/μL in 10mM Tris-Cl, pH 8.5 (not TE buffer).

RNA Input Recommendations: RNA Input Recommendations: 1-4 μg of total RNA, minimum concentration of 20 ng/μL in nuclease-free ultra pure water (do not exceed 50 μL), non-degraded with a Bioanalyzer RIN value of 8.

			FOR AMPLICONS ONLY			
		Sample Name	Concentration (ng/μl)	Amplicon size (bp)	Index 1 ID	Index 2 ID
A	1					
	2					
	3					
	4					
	5					
	6					
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	11					
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B	13					
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PRIMER DESIGN REQUIREMENTS FOR AMPLICON SEQUENCING

For amplicon submission (150-600 bp), Nextseq adaptors must be added prior to submission

PRIMER DESIGN

Forward Primer:

MiSeq adaptor
5'-TCGTCGGCAGCGTCAGATGTGTATAAGAGACAG | NNN NNN NNN NNN NNN NNN -3'

Gene-specific Primer

Reverse Primer:

MiSeq adaptor
Primer
5'-GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAG | NNN NNN NNN NNN NNN NNN -3'

Gene-specific

Please order primers from IDT (HPLC purified) through the local distributor, Whitehead Scientific:
<http://whitesci.co.za/brand/idt-integrated-dna-technologies/>

After PCR, products must be gel- or AMPure-purified.

If indexing reaction is performed, please provide size of amplicon (bp) and index combinations for

each amplicon or submit Illumina experiment manager sample sheet.