



# Next Generation Sequencing



## Read what our customers are saying..

“ It was a pleasure working with 1st BASE [Axil Scientific]. They were fast and responded quickly to our inquiries and efficient in obtaining the samples, generating libraries and sequencing our RNA. Their customer service was good with clear communications and the data was easy to access.....We look forward to working with them in the future. ”

**Dr. Aaron Irving**  
Duke-NUS Medical School Singapore

“ .....The team had helped us to prepare for the highest quality transcriptome sequencing data from the beginning of workflow, and offered effective steps to the troubleshooting at all stages.....Thank you very much to Axil Scientific for the NGS service award given and for supporting our research. ”

**Dr. Siti Sarah Daud**  
National University of Singapore

“ The service that I got from 1st BASE was excellent in every respect. ”

**Dr. Md. Monjurul Alam**  
Bangladesh Jute Research Institute

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1st BASE excellent  
achieve goal NGS customer support  
service superior customer service  
providing research turnaround time  
accelerated  
providing scientists  
technical support life science  
serve the needs of research community

1st BASE proudly introduces our **Next Generation Sequencing Service** to assist you in your NGS pursuits.

It has always been our mission to serve the needs of the life science research community.

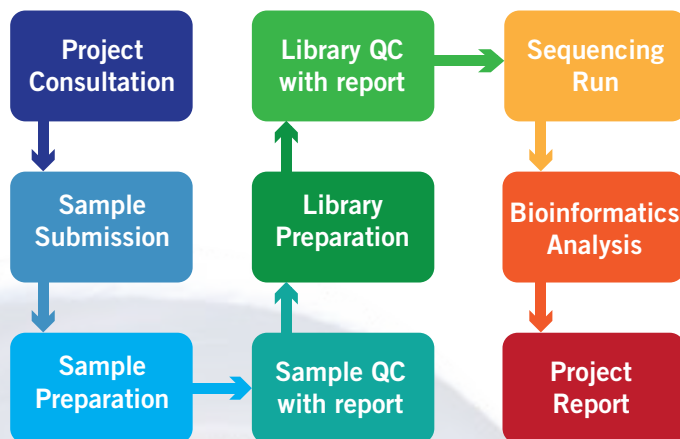
We have a dedicated team taking care of your project, hence you can count on us for high quality data and accelerated turn-around time.

**Your Research,  
Our Business**

# Complete Solution

1st BASE offers a complete solution for your Next Generation Sequencing needs.

From initial project consultation to the final comprehensive project report.



- Sample Preparation Services - DNA/RNA isolation from various samples
- Sample QC with report
- High Quality Library Preparation
- Library QC with report
- Comprehensive Bioinformatics Data Analysis with report (which includes publication-ready figures and tables)

Accelerated turn-around time guarantees that you will get your results in as short as 5-7 days\*.

\*Terms and conditions apply.

# Applications

Here are some of the applications, but not limited to, that are offered by 1st BASE.

- **Whole Genome Sequencing (WGS)**
- **Whole Exome Sequencing (WES)**
- **Transcriptome Sequencing (RNA-Seq)**
- **Metagenomics Sequencing**  
Services include:  
16S/18S/ITS Amplicon Sequencing, Shotgun Metagenomics, Shotgun Metatranscriptomics etc.
- **Epigenome Sequencing**  
Services include:  
Methylation (Bisulfite conversion) Sequencing, MBD (Methyl-CpG binding domain) Sequencing, ChIP- (Chromatin Immuno Precipitation) Sequencing
- **Genotyping By Sequencing (GBS)**
- **Next Restriction site Associated DNA Sequencing (NextRAD Seq)**
- **Mitochondrial DNA Sequencing (mtDNA Seq)**
- **Custom Targeted Sequencing**

# Sample Requirement

## General Sample Requirement\*:

Sample Type	Volume	Minimum Conc.	Amount	A260/280 Ratio	A260/230 Ratio	RNA Integrity Number
gDNA	>40 µl	20 ng/µl	>2 µg	>1.8	>2	-
Low Input DNA library (such as FFPE)	>40 µl	30 ng/µl	>2 µg	>1.8	>2	-
PCR-free Genomic DNA library	>40 µl	20 ng/µl	>2 µg	>1.8	>2	-
Total RNA	>40 µl	50 ng/µl	>3 µg	>1.8	>2	> 7.5
Small RNA/microRNA library	>40 µl	50 ng/µl	>3 µg	>1.8	>2	> 7.5

\*Sample requirements may vary for different applications, please check with us before sending out your samples.



Get in touch with us today and let us recommend the most suitable solution for your research with no obligations.