

# Barcode-Tagged Sequencing™ (BTSeq™) NGS-based Sequencing Kit

## CELEMICS BTSeq™ Designed to solve Sanger Sequencing Market Issues

Based on feedback as it pertains to the market issues surrounding Sanger Sequencing, Celemics has developed an NGS-based sample preparation kit and BI software enabling highly accurate DNA Sequencing from 200 bp to 20 kb or greater in length. The BTSeq™ kit generates digitized results with a short turnaround time (TAT) by eliminating primer requirements, effectively correcting sequencing errors and generating a consensus sequence through Celemics' proprietary technology.

## NGS-based Technology Enabling labs to enter markets that Sanger cannot

Sanger labs utilize costly primer walking and endure long TATs to sequence samples larger than 1kb, all while experiencing shortcomings such as homopolymer sequencing, multi-peak problems, and limitations in detecting Indel or frameshift mutations. BTSeq™ overcomes such limitations and provides accurate sequencing data even from poor quality or low-amount samples. By giving labs the freedom to sequence plasmids or long amplicons up to ≥20kb or higher, they are able to penetrate markets that they originally could not due to Sanger cost and TAT limitations.

### BTSeq's™ Value Set



- Eliminates the need for costly primer walking
- High-throughput NGS options allow less instrumentation
- No re-runs needed – compatible with unpurified PCR products



- Gain market share in NGS markets by being applicable to a wide variety of applications such as :

Virological sector	SARS-CoV-2 WGS
Gene Editing sector	CRISPR-CAS 9 validation sequencing
Human, non-human & plant sector	Mitochondrial WGS

- Sequence large plasmids/long amplicons up to ≥20kb or higher
- NGS-based high sequencing quality with raw data files (FASTQ)

## BTSeq™ Kit Configurations

Product Group	Reaction Options	BI Analysis	Kit Contents
BTSeq™ Kit	96	Can either be done by customer or Celemics can do the BI and upload to our cloud server	96 Well Plate Cleaving Enzyme Pre-PCR Treatment Solution PCR Solution
	384		
	1920		
	3840		