BATJ
Bio Applied Technologies Joint,Inc.

6331 Nancy Ridge Dr., San Diego, CA 92121; (858) 622-9498; www.batj.net

Next Generation Sequencing (NGS) Services

Fast · Reliable · High Quality

Ion PGM System

Illumina MiSeq System

- Targeted Re-Sequencing
- Plasmids or PCR Fragments Sequencing (PPS)
- Metagenomics Sequencing (16S/18S/ITS)
- Antibody Repertoire Sequencing
- CRISPR Validation Sequencing
- Small RNA sequencing
- Whole Genome Sequencing (microorganisms)
- More coming soon…

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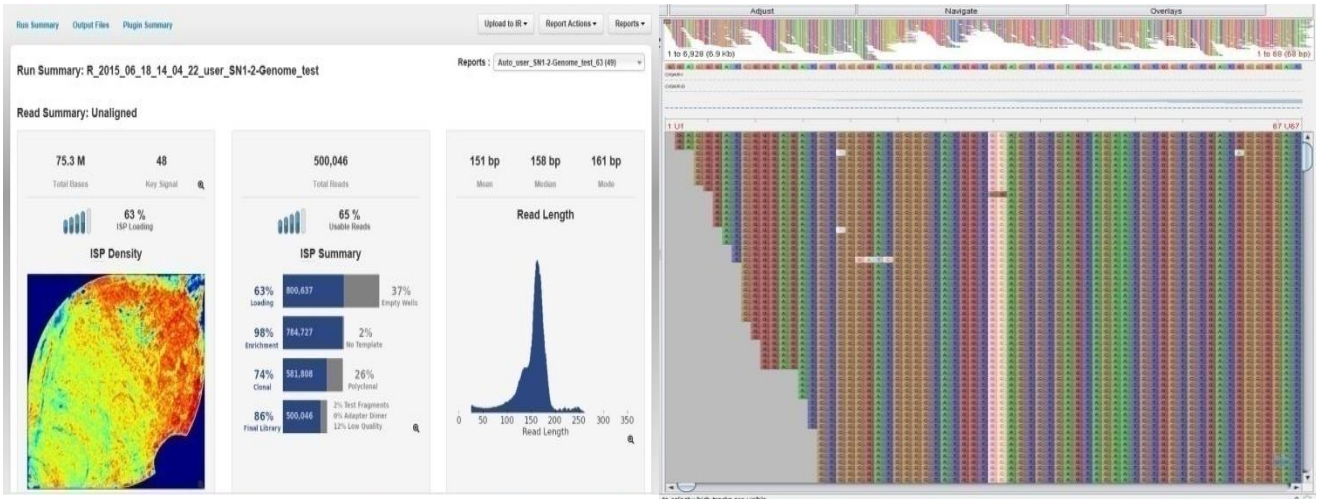
Whole Plasmids and PCR Fragments Sequencing (PPS Service by NGS)



NGS PPS Service developed at BATJ

- Determine the complete sequence of circular or linear DNA molecules in a single run
- Ideal for unknown plasmid structure or whole plasmid identification after modification
- Suitable for a wide range of difficult templates (repetitive regions, strong secondary structures, GC rich…)
- No more sequencing walking primers to design and synthesis
- Reference sequence preferred, but not required
- Deep coverage of the whole DNA sequence (>100x)
- Up to 96 barcoded samples per chip run.
- Fast turnaround time (usually 3-5 business days)

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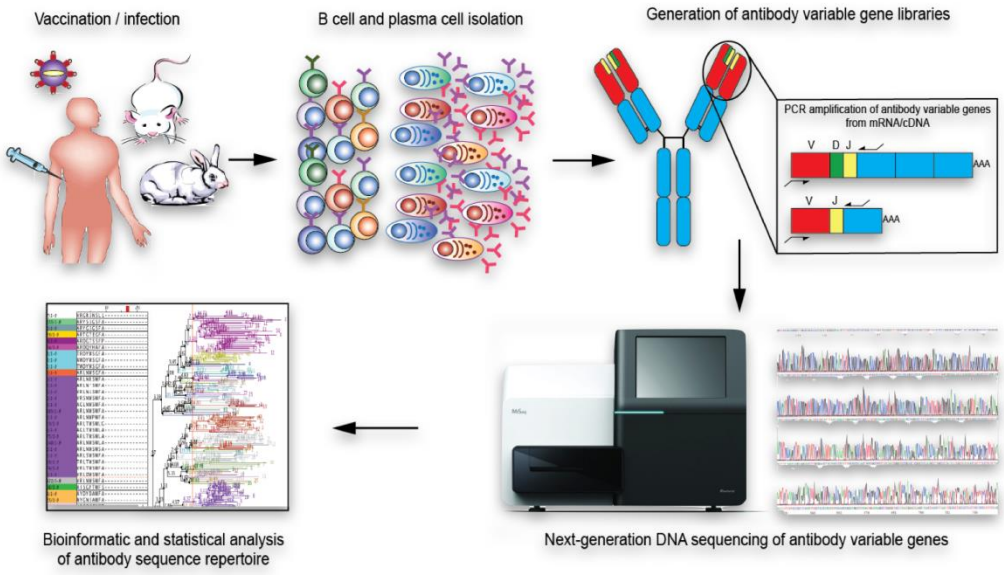
Ig-Seq Service by NGS

(High-Throughput Antibody Repertoire Sequencing)



- **Quantitative characterization of clonal diversity and distribution within immunoglobulin repertoire**
- **Comprehensive profiling of antigen- and disease-related alterations, as well as prioritizing of antibody drug candidates for further analysis**
- **Long read length (up to 500 bp)**
- **Deep coverage of Ig repertoire: up to 1 million CDR3/run**
- **Fast turnaround time: ~3-5 business days**

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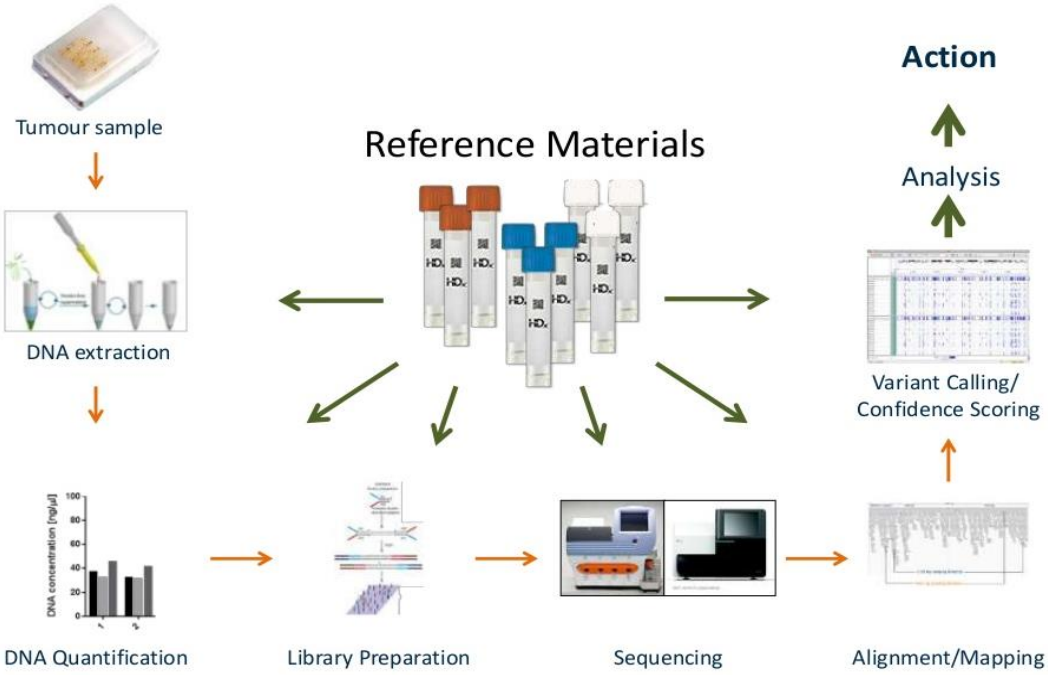
NGS Amplicon Panel Sequencing



Ultra-deep Sequencing of Commercial or Customized Amplicon Panels

- **Ion AmpliSeq™ Cancer Hotspot Panel v2 - targeting "hot spot" regions of 50 oncogenes which applified with 207 pairs primers cover 2800 mutations on 23 pairs human chromosomes.**
- **Ion AmpliSeq™ Comprehensive Cancer Panel - targeting exons within 409 oncogenes and tumor suppressor genes with 16,000 primers.**
- **Ion AmpliSeq™ Inherited Disease Panel - targeting exons of over 300 genes associated with over 700 inherited diseases including neuromuscular, cardiovascular, developmental, and metabolic diseases**