

Widely Compatible Data for Downstream Analysis

Data sets are provided in variant call format (VCF) for streamlined analysis, and include confidence calls for variant linkage. The Phasing Analysis Service also delivers filtered, demultiplexed reads in addition to the phased genome for further analysis (Table 1). These data sets are compatible with various downstream tools for subsequent analysis and visualization.

Phasing Analysis Service without Compromise

Powered by proven technology and comprehensive informatics, the Phasing Analysis Service delivers complete genomic phase information, enabling detailed and thorough analysis of human genomes. With industry-leading turnaround times, this cost-effective service eliminates the need to purchase additional instrumentation while providing an inclusive haplotyping solution. The Phasing Analysis Service provides researchers with the confidence to take the next step in their research. Learn more about this service at www.illumina.com/services.

References

1. Tewhey R, Bansal V, Torkamani A, Topol EJ, Schork NJ (2001) The importance of phase information for human genomics. *Nat Rev Genet* 12: 215–223.
2. www.1000genomes.org
3. Kleinjan DJ, Coutinho P (2009) *Cis*-ruption mechanisms: disruption of *cis*-regulatory control as a cause of human genetic disease. *Brief Funct Genomic Proteomic* 8: 317–332.

Table 1: IGN Phasing Analysis Service Details

Sample Input Requirements

3 µg genomic DNA, inclusive of WGS DNA requirements

Data Deliverables

Whole-Genome Sequence (VCF)

Single nucleotide polymorphisms (SNPs)

Indels (1–50 bp)

Copy number variations

Large deletions

Large insertions

Phased Genome Sequence

Variant linkage and confidence scores (VCF)

Filtered and demultiplexed short reads (FASTQ)

Additional Deliverables

Whole-genome concordance with genotyping arrays

Summary reports (whole-genome sequencing and phasing)

AAGAATGATAACAGTAAACACACTTCTGTTAACCTTAAGATTACTTGATCCACTGATTCAACGTACCGTAACGAACGTATCAATTGAGACTAAATATAACGTACCATTAAAGACTACCGTGCAACGACGAAAAGAATGATAACGTAACACACTTCTGTTAAC
 AATCAACGTACCGTAACGAACGTATCAATTAAAGATTACTTGATCCACTGATTCAACGTACCGTAACGAACGTATCAATTGAGACTAAATATAACGTACCATTAAAGACTACCGTGCAACGACGAAAAGAATGATAACGTAACACACTTCTGTTAAC
 AACGACGAAAAGAATGATAACAGTAAACACACTTCTGTTAACCTTAAGATTACTTGATCCACTGATTCAACGTACCGTAACGAACGTATCAATTGAGACTAAATATAACGTACCATTAAAGACTACCGTGCAACGACGAAAAGAATGATAAC
 TTAACGTACCATTAAAGACTACCGTGCAACGTAACACACTTCTGTTAACCTTAAGATTACTTGATCCACTGATTCAACGTACCGTAACGAACGTATCAATTGAGACTAAATATAACGTACCATTAAAGACTACCGTGCAACGACGAAAAGAATGATAAC
 AAAGATTGATAACAGTAAACACACTTCTGTTAACCTTAAGATTACTTGATCCACTGATTCAACGTACCGTAACGAACGTATCAATTGAGACTAAATATAACGTACCATTAAAGACTACCGTGCAACGACGAAAAGAATGATAAC
 AAGATTACTTGATCCACTGATTCAACGTAAAGATTACTTGATCCACTGATTCAACGTACCGTAACGAACGTATCAATTGAGACTAAATATAACGTACCATTAAAGACTACCGTGCAACGACGAAAAGAATGATAAC
 AACGTATCAATTGAGACTAAATATAACGTACCATTAAAGACTCTGTTAACCTTAAGATTACTTGATCCACTGATTCAACGTACCGTAACGAACGTATCAATTGAGACTAAATATAACGTACCATTAAAGACTACCGTGCAACGAAAAGAATGATAAC

