



Genome-wide association study (GWAS) is a method used to detect associations between genetic variants and traits in specific population samples. Employing a GWAS has also become a widely accepted strategy for decoding genotype-phenotype associations in many species. At the genome-wide scale, association studies typically focus on statistical relationships between single-nucleotide polymorphisms (SNPs) and specific traits.

Service Highlights



Extensive experience

Over 4000 re-sequencing projects completed, with associated data published in several high impact journals.



Comprehensive bioinformatics analysis

Multiple analysis solutions with widely accepted mainstream software to meet your project needs.



Unsurpassed data quality

llumina Novaseq PE150, Guaranteed Q30 ≥ 80%, exceeding Illumina's official guarantee of ≥ 75%.

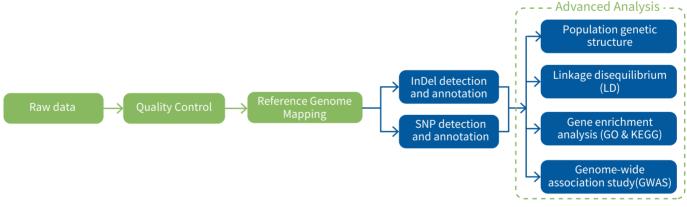
Project Workflow



Sample Requirement

Sample Type	Amount (Qubit®)	Volume	Concentration	Purity (NanoDropTM/Agarose Gel)
Genomic DNA	≥ 0.2 μg	≥ 20 μL	≥ 20 ng/μL	OD260/280 = 1.8 – 2.0, no degradation, no contamination
Genomic DNA (PCR-free low input-350bp)	≥ 1.5 μg	≥ 20 μL	≥ 20 ng/μL	

Bioinformatics Analysis Pipeline



Novogene Powered Literature

Year	Journal	Title	
2020	Nature communications	Whole-genome resequencing of wild and domestic sheep identifies genes associated with morphological and agronomic traits	
2020	Plant biotechnology journal	Genome-wide expression quantitative trait locus analysis in a recombinant inbred line population for trait dissection in peanut	
2019	Molecular Biology and Evolution	Phylogenomics reveals an ancient hybrid origin of the persian walnut	
2018	Nature communications	Genome re-sequencing reveals the evolutionary history of peach fruit edibility	
2018	Nature Genetics	Resequencing a core collection of upland cotton identifies genomic variation and loci influencing fiber quality and yield	
2018	Nature communications	Genetic variation in <i>PTPN1</i> contributes to metabolic adaptation to high-altitude hypoxia in Tibetan migratory locusts	

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