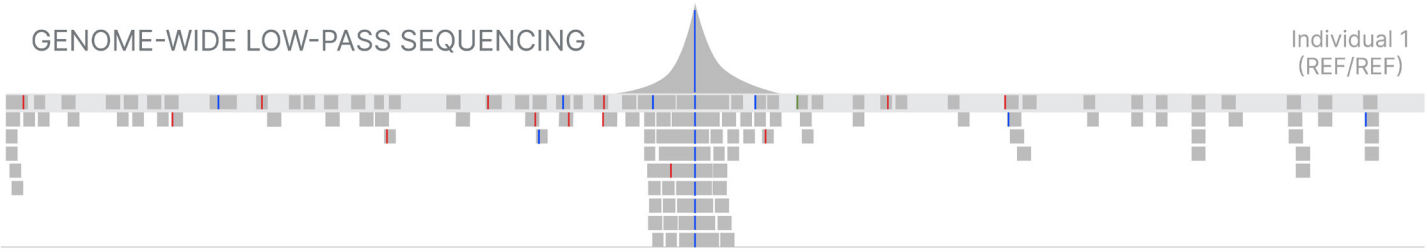
InfiniSEEK™

Invest in the Future of Your Bovine Breeding Program at a Whole New Level

Introducing a revolutionary, cost-effective, whole genome, and targeted high coverage sequencing solution in a single technology. InfiniSEEK™ combines NEOGEN®'s world-class laboratory services with Gencove's low-pass sequencing software and advanced analytics platform to deliver the insights you need to confidently select superior individuals from your breeding population.

Finally, there's one high-throughput sequencing technology that provides deep and wide genomic information so you can reliably predict genetic progress now and in the future.



Example data only.

HIGH-COVERAGE SEQUENCING
AT TARGETED LOCI

The technology behind InfiniSEEK is unique and combines two types of sequencing, low-pass and targeted high-coverage, in a single molecular reaction. Now, you can capture the causal variation in your population without lag time associated with designing and building new arrays. Additionally, InfiniSEEK delivers low-pass whole genome sequencing analysis to quickly understand new traits and defects. InfiniSEEK is designed for efficiency from library preparation through reference panel imputation. Advanced data analytics can be easily added giving you the flexibility for further insights without extra complexity or development time.

Accurate and Concordant

InfiniSEEK has been rigorously validated and delivers highly accurate low-pass genome-wide and high-coverage information for the key traits that drive your breeding program.

Genome Wide Concordance[1]		
Angus	Hereford	Simmental
99.3%	99.1%	99.2%

[1] Snelling, W. M. et. al. (2020). Assessment of Imputation from Low-Pass Sequencing to Predict Merit of Beef Steers. Genes (Basel). 2020 Nov; 11(11): 1312.

Never before has the industry had such powerful information to characterize the most important traits with clinical-grade accuracy.

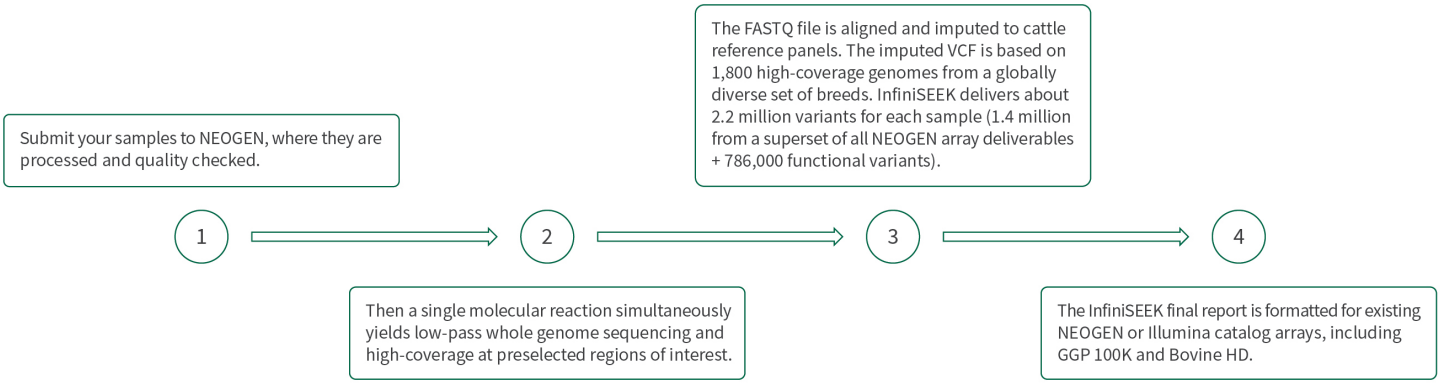
NEOGEN®

InfiniSEEK compared to genotyping arrays at certain loci showed the following across ~340 individuals.

Locus	Genotype Match
Polled	100%
MC1R	100%
A2	100%
Calpain	100%

Simple and Reliable

The InfiniSEEK process is familiar and the analysis is easily integrated into your existing infrastructure.



Future-proof Your Genomic Investment

Only InfiniSEEK lets you discover more traits impacting desired phenotypes with fast, affordable, whole genome sequencing and maximize breeding prediction with targeted high-coverage information.

Genomic technology has advanced — so can you. Contact us at genomicinfo@NEOGEN.com to get started with InfiniSEEK.