

Genotyping Services

Precision Genetics for Breeding Excellence

Genotyping is an essential tool for modern breeding programmes, unlocking valuable genetic insights into your stocks. Xelect are market leaders in flexible, reliable and high-quality delivery of SNP genotyping with an offering for **ANY** species and strain

Upgraded

Low Density **~150 SNP Panels**

Best for breeding programmes which only require trait evaluations on candidates

Medium Density **~5k SNP Panels**

Best for breeding programmes requiring genomic prediction for complex trait evaluations

High Density **30-70k SNP Arrays**

Best for breeding programmes requiring genomic selection and identification of causal traits from genome wide association studies



Why Choose Xelect?

- Ensured **reliability** and **quality** through our state-of-the-art genetics laboratory
- Advanced **high throughput** genotyping technologies
- Flexibility – **bespoke** panels for **any species**
- Consistently **beats turnaround times**
- **Reruns included** for improved sample performance
- **Leading bioinformatics** pipelines for the best in data processing and genomics
- Wide range of **functional markers**, including patented markers

"Our in-house, state-of-the-art genotyping lab gives us complete control over quality and turnaround times. That means we can respond quickly and directly to customer needs—working closely with our lab and bioinformatics team to ensure timely delivery. For our clients, this makes a real difference: they can plan and execute spawning operations when it suits them, not when an external lab dictates."

Dr. Marie Smedley,
Global Head of Xelect



"Our specialist lab and molecular team are deeply experienced in aquaculture species. We work closely with every client to understand their operational priorities and timelines—so they are well supported. Every breeding program is different, which is why we design and customise genotyping tools to deliver maximum impact. Our clients benefit from a large SNP database and an extensive array of functional and patented markers to support breeding goals."

Dr. Rachael Wilbourn,
Head of Laboratory

