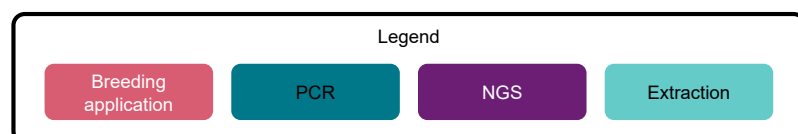
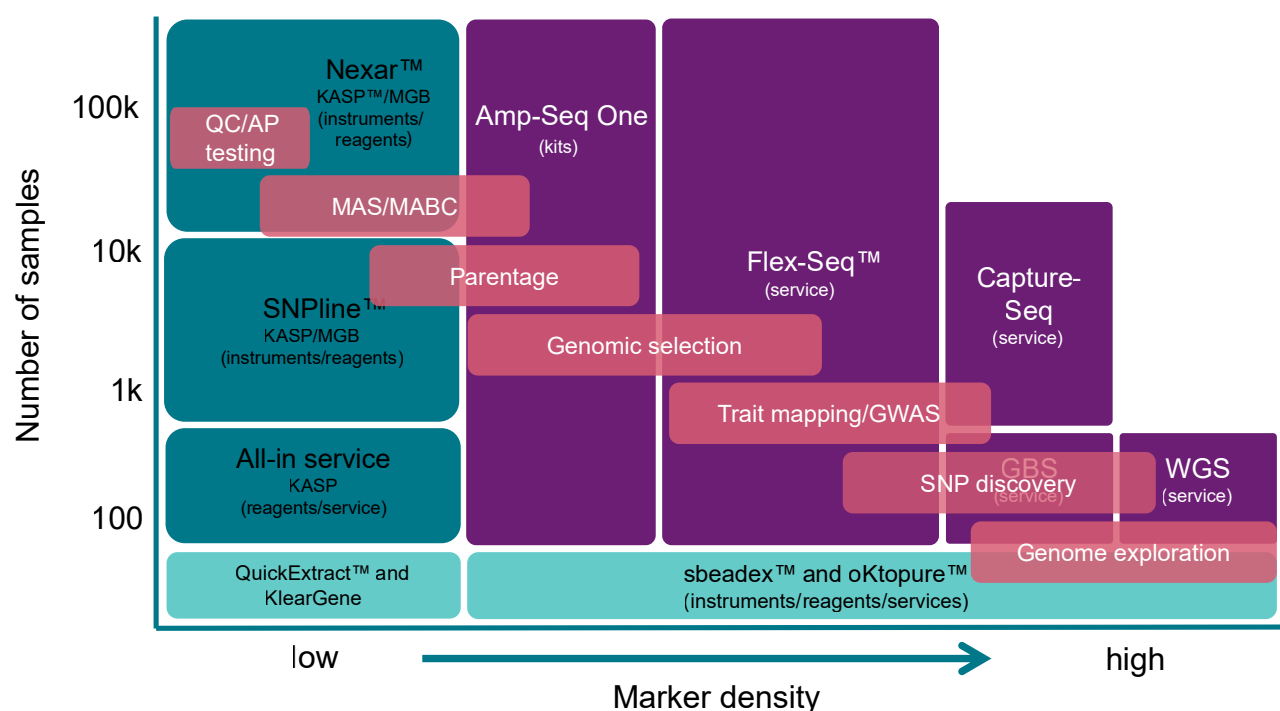


Support at every stage of your breeding programme

Overview of the NGS portfolio from LGC Biosearch Technologies

With many years of experience, and through consultation, Biosearch Technologies will provide expert assistance to ensure selection of the best method for your samples, at any stage of your breeding programme.



Biosearch Technologies
offers a wide range of
optimised NGS solutions
that can meet the specific
needs of your project.



High-throughput genotyping solutions

	<u>KASP</u>	<u>Amp-Seq One</u>	<u>Flex-Seq</u>	<u>Capture-Seq</u>	<u>nGBS & ddRAD</u>	<u>WGS</u>
Technology	PCR (fluorescent readout)	Targeted genotyping by sequencing (GBS) based on amplicon sequencing (NGS readout)	Targeted GBS based on probe hybridisation (NGS readout)	Targeted GBS based on in-solution hybridisation-based capture (NGS readout)	Restriction enzyme-based genotyping by sequencing (NGS readout)	Whole genome sequencing (NGS readout)
Technical applications	Targeted genotyping	Targeted genotyping	Targeted genotyping	Targeted genotyping	Targeted genotyping	Genome exploration
Agricultural biotechnology applications	QA/QC, MAS, MABC, Parentage	QA/QC, MAS, genomic prediction, parentage	Genotyping, genomic prediction, haplotyping, MAS, MABC, parentage	Genotyping, haplotyping, genomic prediction, marker discovery, insertion site characterisation, GWAS	Marker discovery (untargeted)	Full genome marker discovery, allele mining, skim sequencing, structural analysis
Upper marker number density	Hundreds	Thousands	Tens of thousands (genotyping)	Hundreds of thousands (genotyping)	Tens of thousands (discovery)	Whole genome
Pre-defined content	Human, rat, mouse, wheat, maize, tomato and others	Several, e.g., maize, bovine	<u>Several, e.g., Blueberry, Cattle, Corn, Cotton, Pig, Soybean</u>	Please enquire	N/A	N/A
Min. sample number	384*	384+	384*	96+	12+	12+
Kit/service	Master mix, assays and Instruments	Reagent system + analysis pipeline	Service	Service	Service	Service
Lab service sites	Hoddesdon (UK)	N/A	Berlin (DE), Middleton (US)	Middleton (US)	Berlin (DE)	Berlin (DE), Middleton (US)
Input DNA requirement	Low quality/crude	Low quality/crude	Medium to high quality/purified	Medium to high quality/purified	Medium to high quality/purified	Medium to high quality/purified
Default service TAT**	2 weeks	-	4-6 weeks	6-8 weeks	6-8 weeks	8-12 weeks
Default protocol TAT***	80-90 minutes	120 minutes	-	-	-	-

* For consortia and pre-design panels lower minimum sample numbers may be available, please enquire. ** Turnaround time excl. assay design, DNA extraction and 4-6 weeks panel design.
*** excl. assay design, DNA extraction and sequencing, fast turnaround time options available.

Contact your [sales representative](#) today.



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