







Analysis Type	Sensitivity	Targets	Applications	Advantages	Limitations	Cost
qPCR	0.01-0.1%	Hotspots	Detection, monitoring, targeted therapy	High specificity/sensitivity, rapid, simple	No multiplexing, known mutations	\$
Digital PCR	0.01-0.1%	Hotspots, gene fusions, CNV	Detection, monitoring, targeted therapy	Up to 5 targets, high specificity/sensitivity, quantification, rapid, simple	Limited multiplexing, known mutations	\$
Targeted NGS Panel	0.0001%-2%	Known & unknown mutations, indels, CNV, chromosomal rearrangements	Detection, monitoring, classification, targeted therapy	High specificity/sensitivity, error correction, better multiplexing	Complex workflow, sequencing instrument required, bioinformatics	\$\$
Whole exome sequencing	5%	Coding, non-coding, promoter, UTR regions	Detection, monitoring, targeted therapy, classification	Discovery, signatures, CNV, fusion, rearrangements, neoantigens, TMB	Low sensitivity, complex workflow, sequencing instrument required, bioinformatics	\$\$\$
Whole genome sequencing	5-10%	Structural variants, fragmentation pattern, genome wide CNV, methylation, TMB	Classification/origin, early detection	Shallow sequencing cancer profiling/signatures	Variable/low sensitivity/specificity, lots of sequencing, bioinformatics	\$\$\$\$

























