

Sample Quantification and QC

4 μ L (≥ 400 amplifiable cp)



qPCR-based Quantification

Gene-specific PCR

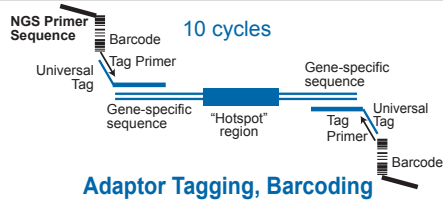
25 cycles



Single-tube Multiplex PCR

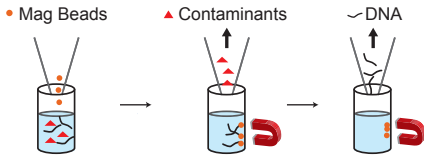
Tag PCR

10 cycles

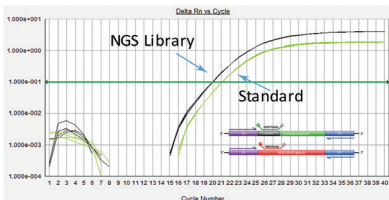


Adaptor Tagging, Barcoding

Library Purification & Size Selection



Library Quantification



Normalization & Pooling, Dilution, Loading

MiSeq



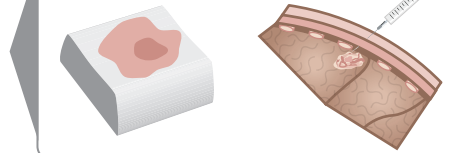
or

PGM



FFPE or FNA Tumor Biopsy

DNA Isolation (or TNA)



Cancer Gene Panel

Pan Cancer DNA Panel

Gene	Codon Range	Gene	Codon Range
ABL1	249-258	HRAS	9-20
	303-319		59-76
AKT1	16-27		113-121
AKT2	16-26	IDH1	122-134
	1174-1196		138-145
ALK1	1274-1278	IDH2	163-174
	465-474	JAK2	607-620
BRAF	591-612		557-579
	486-493	KIT	815-826
	709-722		9-20
	737-761	KRAS	55-65
	767-798		104-118
	849-861		137-148
	755-769	MET	1245-1256
	774-788		9-20
ERBB2	839-847		55-67
	877-883	NRAS	110-119
	123-136		144-150
FGFR1	250-262	PDGFRA	560-572
	247-260		840-852
FGFR3	363-374		540-551
	638-653	PIK3CA	1038-1049
FLT3	829-840	RET	916-926

Pan Cancer Detection Panel

Data Analysis, Variant Calling, Reporting

