

MiSeq System Applications

Area	Application	Method	Input
Targeted RNA Sequencing	Gene Expression	RNA-Seq	purified mRNA total RNA
Targeted Resequencing	Environmental testing Animal testing Plasmids	Metagenomics (16S/18S rRNA, ...)	Microbial gDNA
	Variant discovery	Hybrid capture	Human gDNA
	Variant discovery, validation and screening	Amplicon sequencing	Human gDNA FFPE DNA
	HLA typing	Amplicon sequencing	Human gDNA
Small Genome Sequencing	Microbial, viral, exomes, BAC/YAC	<i>De novo</i> sequencing	gDNA
	SNP, gaps, indels, recombination discovery	Resequencing	gDNA
Targeted Methylation	DNA Methylation	Resequencing	Bisulfite DNA
miRNA Sequencing	miRNA Expression	miRNA-Seq	purified miRNA total RNA