The table below summarizes the SMF’s microarray applications, platforms and supported arrays. Click on the link for information on each array type.

|  |  |  |
| --- | --- | --- |
| Array Type | Sample Requirements | Minimum Submission |
| [**Gene Expression**](http://inside.mdanderson.org/departments/dna/gexmicroarrays.html) |
|  Affymetrix Express 3'IVT,T | ≥100 ng total RNA (minimum 33ng/uL), 12 uL/sample. | 1 sample |
|  Affymetrix Human  Gene 1.0 ST Array | ≥100 ng total RNA (minimum 33ng/uL),12 uL/sample.  One sample per array cartridge. | 1 sample |
|  Affymetrix Human Exon 1.0 S Array | ≥100 ng total RNA (minimum 33ng/uL) 12 uL/sample.  One sample per array cartridge. | 1 sample |
| Illumina HumanHT12v4 (24 rxn) | ≥100-200 ng total RNA (minimum 33 ng/uL),12 uL/sample. | 12 samples |
| Illumina MouseWG-6 v2 (12 rxn) | ≥100-200 ng total RNA (minimum 33 ng/uL),12 uL/sample. | 6  samples |
| Illumina MouseRef-8 v2 (16 rxn) | ≥100-200 ng total RNA (minimum 33 ng/uL), 12 uL/sample. | 16 samples |
| Illumina Gene Expression-FFPE | ≥100-200 ng total RNA (minimum 33 ng/uL).   12 uL/sample.  | 24 samples |
| [**SNP Profiling**](http://inside.mdanderson.org/departments/dna/snpprofilingmicroarrays.html) |
| Affymetrix SNP 6.0 Genotyping | ≥500 ng of genomic DNA (minimum 50 ng/uL),    15 uL/sample | 30 samples  Note:  One sample per array cartridge |
| Affymetrix CytoScan HD CNV | ≥250 ng of genomic DNA (minimum 50 ng/uL), 12 uL/sample | 1 sample |
| Illumina HumanCytoSNP-12 | ≥200 ng of genomic DNA (minimum 50 ng/uL), 12 uL/sample | 12 samples |
| Illumina HumanOmniExpress-12 | ≥200 ng of genomic DNA (minimum 50 ng/uL).,    12 uL/sample | 48 samples |
| Illumina HumanOmni1S-8 | ≥200 ng of genomic DNA (minimum 50 ng/uL).   12 uL/sample | 16 samples |
| Illumina HumanOmni2.5-8 | ≥200 ng of genomic DNA (minimum 50 ng/uL), 12 uL/sample | 16 samples |
| Illumina HumanOmni2.5S-8 | ≥200 ng of genomic DNA (minimum 50 ng/uL),    12 uL/sample | 16 samples |
| Illumina HumanOmni5-4 | ≥400 ng of genomic DNA (minimum 50 ng/uL),    16 uL/sample | 16 samples |
| Illumina HumaOminExpress-FFPE-12 | ≥200 ng of genomic DNA (minimum 50 ng/uL), 12 uL/sample. | 24 samples |
| Illumina BeadXpress Custom arrays | ≥200 ng of genomic DNA (minimum 50 ng/uL), 12 uL/sample. | 48 samples |
| [**Methylation**](http://inside.mdanderson.org/departments/dna/dnamethylation.html) |
| Illumina HumanMethylation450 Infinium | ≥500 ng of genomic DNA (minimum 50 ng/uL), 12 uL/sample. | 24 samples |
| Illumina FFPE HumanMethylation | ≥250 ng of genomic DNA (minimum 50 ng/uL),  12 uL/sample. | 24 samples |