A 3D rendering of a large, irregular, reddish-brown tumor with yellow and green spots, set against a dark, textured background. A blue, spherical immune cell with spiky protrusions is shown interacting with the tumor. The overall scene is illuminated with dramatic lighting, creating highlights and shadows.

Mouse I/O RNA-Seq Panel

NGS-based murine targeted panel for I/O and TME studies

- Comprehensive profiling of genes associated with tumor immunity by measuring 1080 mouse transcripts from a single sample

Mouse I/O RNA-Seq Panel Benefits	
Comprehensive	<ul style="list-style-type: none"> Expression level of 1080 genes from a single sample Wide coverage in tumors, TME, and immune response
Flexible Sample Types	<ul style="list-style-type: none"> Extracted RNA Multiple tissues: tumor, blood, immune cells etc.
High-Throughput	<ul style="list-style-type: none"> Suitable for large-scale immunotherapy screening, as well as examining multiple tissues in parallel
High Sensitivity High Accuracy	<ul style="list-style-type: none"> >3 times the sequencing depth of RNA-Seq Avoid biases on non-protein coding RNAs like mitochondrial RNAs
Easy Integration	<ul style="list-style-type: none"> As standalone service or streamline with preclinical <i>in vivo</i> studies Complementary with FACS, IHC and WB
Cost-Effective Fast Turnaround	<ul style="list-style-type: none"> Lower cost per sample 3-week turnaround time

- Rapid transcriptomic insights into key immune cell populations and I/O pathways and process in the TME



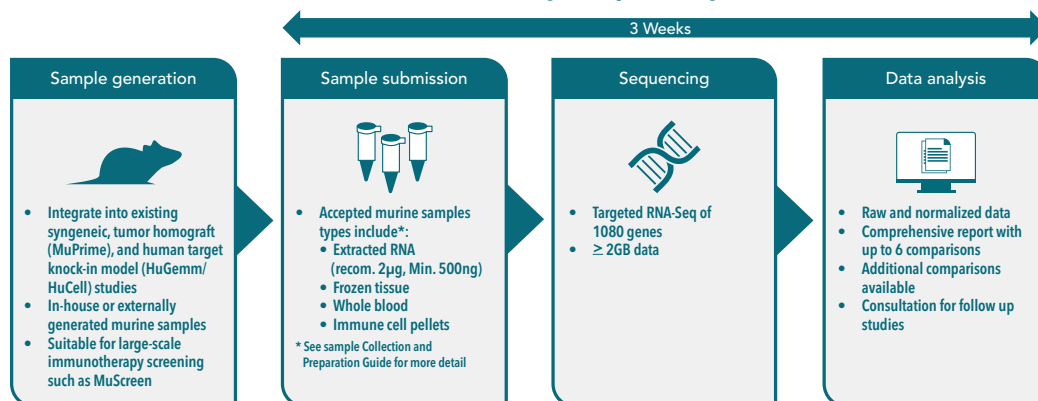
Assay Comparison		
	Mouse I/O RNA-Seq Panel	Microarray I/O profiling
Technology	Targeted deep NGS	Target mRNA (cDNA) hybridize with DNA probes
Target Molecules	mRNAs	mRNAs
Throughput	High (1080 genes)	High (hundreds to thousands of genes, depending on vendor)
Accuracy	High	Low-medium
Sensitivity on detecting low expressing genes	High	Low-medium
Mouse strain discrimination	Yes	No
Turnaround time	2-3 weeks	3-10 weeks depending on vendor
Cost	Low	Medium

Panel Includes Key Immune Cell Signatures

- B cells*
- Dendritic cells*
- Tolerogenic DCs
- Macrophages*
- Tumor-associated macrophages
- G-MDSCs*
- M-MDSCs*
- Neutrophils
- Natural killer cells*
- CD4 T cells*
- CD8 T cells*
- Naïve T cells
- Memory T cells
- Th1 cells
- Th2 cells
- Th17 cells
- T_{reg} cells
- iT_{reg} cells

*Strain specific gene signatures available for C57BL/6 and BALB/c

Streamline Your *In Vivo* Study Sample Analysis Workflow



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