

## SCOPE

### LIBRARY PREPARATION

- ☐ EF 1.0  
☐ EF 2.0  
☐ EM-Seq  
☐ cfDNA  
☐ RNA ☐ FFPE repair ☐ rRNA and Globin Depletion  
☐ Mechanical Frag  
☐ N/A (capture only)

### ADAPTER TYPE

- ☐ Combinatorial Dual Index (CDI)  
☐ Universal Dual Index (UDI)  
☐ UDI+UMI (Unique Molecular Identifier/ Index (UMI))  
☐ N/A (capture only)

### DNA INPUT INTO LIBRARY PREP

- ☐ 1-50 ng  
☐ 50-100 ng  
☐ 100-200 ng  
☐ >200 ng

### SAMPLE TYPE

- ☐ gDNA ☐ cfDNA ☐ FFPE ☐ RNA

### NUMBER OF SAMPLES \_\_\_\_\_

### PLEXITY FOR HYB \_\_\_\_\_

### CONTROL SAMPLE \_\_\_\_\_

### HYBRIDIZATION

- ☐ Std Hyb v1 ☐ Fast \_\_\_\_\_  
hyb time wash 1 temperature  
☐ Std Hyb v2  
☐ Speed Vac  
☐ Bead dry down (not for methylation)

### PANEL SIZE

- ☐ <50 kb ☐ 50-100 kb ☐ 100-500 kb  
☐ 500-1,000 kb ☐ 1-10 Mb ☐ 10-50 Mb  
☐ 50-100 Mb ☐ >100 Mb (exome)

### DESIGN ID

TE- \_\_\_\_\_

## REQUIREMENTS

### SAMPLES

- ☐ Use Qubit / Fluorescence Method to quantify samples  
☐ Make dilutions of the samples  
☐ Include 1-2 control samples to share with Twist  
☐ Calibrate PCR machines, pipettes, heat blocks (70C°/48C° as indicated in Twist protocol)  
☐ Reserve PCR machine for time indicated in Twist protocol

### LIBRARY PREP

#### Twist Consumables:

- ☐ Twist Library Prep Kit  
☐ Twist Index Adapter Kit

#### Equipment:

- ☐ Filtered pipette tips  
☐ Multichannel pipettes  
☐ Table top microcentrifuge (8 tube strips compatible and 1.5 mL tube compatible)  
☐ Thermal cycler (preferably with programmable heated lid), 0.2 mL PCR tubes compatible  
☐ Magnetic separation rack 96-well type  
☐ Thin-walled 0.2 mL PCR tubes strip tubes or 96-well plate  
☐ Vortex mixer

### TARGET ENRICHMENT

#### Twist Consumables:

- ☐ Twist Target Enrichment Kit (binding and purification beads, hyb and wash kit, universal blockers)  
☐ Twist Panel

#### Equipment:

- ☐ Filtered pipette tips  
☐ Multichannel and single-channel pipettes  
☐ Table top microcentrifuge (8 tube strips compatible and 1.5 mL tube compatible)  
☐ Thermal cycler (preferably with programmable heated lid), 0.2 mL PCR tubes compatible  
☐ Magnetic separation rack 96-well type  
☐ Magnetic separation rack 1.5 mL tube compatible  
☐ Heat Block Dry Bath 1.5 mL tube compatible or similar  
☐ Qubit® Fluorometer and High Sensitivity reagents kit  
☐ Digital electrophoresis system (e.g. Agilent Bioanalyzer High Sensitivity chips or similar)  
☐ Vacuum DNA Concentrator (e.g. Speedvac™ or similar)\*  
☐ Ice or cold block  
☐ 1.5 mL tube rotator, rocker, or shaker

\* If not using bead based dry down