

ORGANIZATION NAME: _____

SCOPE

LIBRARY PREPARATION <input type="checkbox"/> EF 1.0 <input type="checkbox"/> EF 2.0 <input type="checkbox"/> EM-Seq <input type="checkbox"/> cfDNA <input type="checkbox"/> RNA <input type="checkbox"/> FFPE repair <input type="checkbox"/> rRNA and Globin Depletion <input type="checkbox"/> Mechanical Frag <input type="checkbox"/> N/A (capture only)	ADAPTER TYPE <input type="checkbox"/> Combinatorial Dual Index (CDI) <input type="checkbox"/> Universal Dual Index (UDI) <input type="checkbox"/> UDI+UMI (Unique Molecular Identifier/ Index (UMI)) <input type="checkbox"/> N/A (capture only)	DNA INPUT INTO LIBRARY PREP <input type="checkbox"/> 1-50 ng <input type="checkbox"/> 50-100 ng <input type="checkbox"/> 100-200 ng <input type="checkbox"/> >200 ng
SAMPLE TYPE <input type="checkbox"/> gDNA <input type="checkbox"/> cfDNA <input type="checkbox"/> FFPE <input type="checkbox"/> RNA	NUMBER OF SAMPLES _____ PLEXITY FOR HYB _____	CONTROL SAMPLE _____
HYBRIDIZATION <input type="checkbox"/> Std Hyb v1 <input type="checkbox"/> Fast <i>hyb time</i> _____ <i>wash 1 temperature</i> _____ <input type="checkbox"/> Std Hyb v2 <input type="checkbox"/> Speed Vac <input type="checkbox"/> Bead dry down (not for methylation)	PANEL SIZE <input type="checkbox"/> <50 kb <input type="checkbox"/> 50-100 kb <input type="checkbox"/> 100-500 kb <input type="checkbox"/> 500-1,000 kb <input type="checkbox"/> 1-10 Mb <input type="checkbox"/> 10-50 Mb <input type="checkbox"/> 50-100 Mb <input type="checkbox"/> >100 Mb <i>(exome)</i>	DESIGN ID TE- _____

REQUIREMENTS

SAMPLES <input type="checkbox"/> Use Qubit / Fluorescence Method to quantify samples <input type="checkbox"/> Make dilutions of the samples <input type="checkbox"/> Include 1-2 control samples to share with Twist <input type="checkbox"/> Calibrate PCR machines, pipettes, heat blocks (70°C/48°C as indicated in Twist protocol) <input type="checkbox"/> Reserve PCR machine for time indicated in Twist protocol	TARGET ENRICHMENT <i>Twist Consumables:</i> <input type="checkbox"/> Twist Target Enrichment Kit (binding and purification beads, hyb and wash kit, universal blockers) <input type="checkbox"/> Twist Panel <i>Equipment:</i> <input type="checkbox"/> Filtered pipette tips <input type="checkbox"/> Multichannel and single-channel pipettes <input type="checkbox"/> Table top microcentrifuge (8 tube strips compatible and 1.5 mL tube compatible) <input type="checkbox"/> Thermal cycler (preferably with programmable heated lid), 0.2 mL PCR tubes compatible <input type="checkbox"/> Magnetic separation rack 96-well type <input type="checkbox"/> Magnetic separation rack 1.5 mL tube compatible <input type="checkbox"/> Heat Block Dry Bath 1.5 mL tube compatible or similar <input type="checkbox"/> Qubit® Fluorometer and High Sensitivity reagents kit <input type="checkbox"/> Digital electrophoresis system (e.g. Agilent Bioanalyzer High Sensitivity chips or similar) <input type="checkbox"/> Vacuum DNA Concentrator (e.g. Speedvac™ or similar)* <input type="checkbox"/> Ice or cold block <input type="checkbox"/> 1.5 mL tube rotator, rocker, or shaker
LIBRARY PREP <i>Twist Consumables:</i> <input type="checkbox"/> Twist Library Prep Kit <input type="checkbox"/> Twist Index Adapter Kit <i>Equipment:</i> <input type="checkbox"/> Filtered pipette tips <input type="checkbox"/> Multichannel pipettes <input type="checkbox"/> Table top microcentrifuge (8 tube strips compatible and 1.5 mL tube compatible) <input type="checkbox"/> Thermal cycler (preferably with programmable heated lid), 0.2 mL PCR tubes compatible <input type="checkbox"/> Magnetic separation rack 96-well type <input type="checkbox"/> Thin-walled 0.2 mL PCR tubes strip tubes or 96-well plate <input type="checkbox"/> Vortex mixer	<small>* If not using bead based dry down</small>