

# Chromium™ Genome v2 Exome Assays

## Protocol Time Planner



	Bench Time	Instrumentation Time	Stop & Store Options
Day 1	gDNA Extraction 1 - 1.5 h		4°C ≤2 weeks or -20°C ≤6 months
	1 h Input gDNA Quantification & Dilution ~ 1.5 h 1 - 2 h (8 samples)		
	2 h Reagent Prep - 20 min Loading Genome Chip - 10 min		
	3 h Transferring GEMs - 3 min	GEM Generation - 20 min	
	4 h	GEM Isothermal Incubation - 3 h	
	5 h		
	6 h Post GEM Recovery - 10 min Cleanup - Silane Beads - 35 min		
	7 h Cleanup - SPRIselect - 20 min		4°C ≤72 h or -20°C ≤2 weeks
8 h	QC - 50 min		
Day 2	1 h Shearing* - 35 min End Repair & A-tailing Prep - 10 min		
	2 h	End Repair & A-tailing Incubation - 1 h	
	Adaptor Ligation Prep - 10 min	Adaptor Ligation Incubation - 15 min	
	3 h Cleanup - SPRIselect - 20 min Sample Index PCR Prep - 10 min	Sample Index PCR - 25 min	4°C ≤72 h
	4 h Cleanup - SPRIselect - 20 min		4°C ≤72 h or -20°C long-term
	5 h Dry-down Prep - 5 min	QC - 50 min	
	6 h	Library Dry-down - 1.5 h	
7 h Enrichment (Hybridization) Prep - 25 min	Hybridization - 16 - 24 h (overnight)		
Day 3	1 h Capture Reagent Prep - 10 min		
	2 h Enrichment (Capture) - 1.5 h		
	3 h Post Capture PCR Prep - 10 min	Post Capture PCR - 20 min	
	Cleanup - SPRIselect - 20 min QC & qPCR Quantification**		4°C ≤72 h or -20°C long-term

\*Shearing time assumes 8 samples sheared in Covaris M220 instrument \*\*Bioanalyzer/TapeStation QC (~ 50 min total) & qPCR Quantification (~ 1 h total) times not included.