

Chromium™ Genome (Exome) Protocol

Time Planner



	Bench Time [§]	Instrumentation Time	Stop & Store Options
Exome Protocol - 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 Denaturation & Master Mix - 10 min Loading Genome Chip - 5 min Transferring GEMs - 2 min	GEM Generation - 22 min	
	3 h	GEM Isothermal Incubation - 3 h	
	4 h		
	5 h		4°C ≤72 h or -20°C ≤2 weeks
	6 h Cleanup - Silane Beads - 45 min Cleanup 1 - SPRIselect - 15 min Cleanup 2 - SPRIselect - 15 min		4°C ≤72 h or -20°C ≤2 weeks
7 h QC*			
Day 2	1 h Shearing** - 35 min End Repair & A-tailing Prep - 5 min	End Repair & A-tailing Incubation - 1 h	
	2 h Adaptor Ligation Prep - 5 min Cleanup - SPRIselect - 15 min Sample Index PCR Prep - 5 min	Adaptor Ligation Incubation - 15 min	
	3 h Cleanup - SPRIselect - 15 min QC Prep - 5 min	Sample Index PCR - 25 min	4°C ≤72 h 4°C ≤72 h or -20°C long-term
	4 h Dry-down Prep - 5 min	QC - 45 min	
	5 h	Library Dry-down - 1.5 h	
	6 h Enrichment (Hybridization) Prep - 1 h		
	7 h	Hybridization - 16 - 24 h (overnight)	
Day 3	1 h Capture Reagent Prep - 10 min Enrichment (Capture) - 1.5 h		
	2 h Post Capture PCR Prep - 5 min	Post Capture PCR - 20 min	
	3 h Cleanup - SPRIselect - 15 min QC & qPCR Quantification*		4°C ≤72 h or -20°C long-term

[§]Estimates including hands-on & benchtop incubation times. *Bioanalyzer/TapeStation QC (~ 50 min total) & qPCR Quantification (~ 1 h total) times not included. **Shearing time assumes 8 samples sheared in Covaris M220 instrument