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Flow Cell Number: Metagenome의 경우 PCR 후 PCR product로 진행, 바코드 없는 프라이머 사용

	Before start checklist		
	Materials	Consumables	Equipment
	Native Barcoding Kit 24 V14 (SQK-NBD114.24)	☐ NEB Blunt/TA Ligase Master Mix (NEB, Cat # M0367)	Hula mixer (gentle rotator mixer)
	200 fmol (130 ng for 1 kb amplicons) DNA per sample to be barcoded	☐ NEBNext Ultra II End repair/dA-tailing Module (E7546)	 Microplate centrifuge, e.g. Fisherbrand™ Mini Plate Spinner Centrifuge (Fisher Scientific, # 11766427)
http .htm	://molbiol.ru/eng/scripts/01_07	NEBNext Quick Ligation Module (E6056)	Magnetic rack suitable for 0.2 ml thin-walled PCR tubes or 96-well plates
	길이 별 fmol 농도 계산 농도는 나노드롭 사용	Eppendorf twin.tec® PCR plate 96 LoBind, semi-skirted (Cat # 0030129504) with heat seals	Microfuge
- 2	200 fmol (194.7 ng for 1.5 Kb)	1.5 ml Eppendorf DNA LoBind tubes	☐ Vortex mixer
	200 fmol (64.9 ng for 0.5 Kb)	2 ml Eppendorf DNA LoBind tubes	☐ Thermal cycler
- 2	200 fmoll (32. 45 ng for 0.25 Kb)	Nuclease-free water (e.g. ThermoFisher, cat # AM9937)	☐ Ice bucket with ice
		Freshly prepared 80% ethanol in nuclease- free water	Timer
		☐ Qubit [™] Assay Tubes (ThermoFisher, Q32856)	Eppendorf 5424 centrifuge (or equivalent)
		Qubit dsDNA HS Assay Kit (ThermoFisher Q32851)	Qubit fluorometer (or equivalent for QC check)
		Optional) Bovine Serum Albumin (BSA) (50 mg/ml) (e.g Invitrogen™ UltraPure™ BSA 50 mg/ml, Cat #AM2616)	Pipettes and pipette tips P2, P10, P20, P100, P200, P1000
	PCR 과정 중 생긴 nick과 polyA를 붙여주는 과정 20min		
	INSTRUCTIONS NOTES/OBSERVATIONS		
	[1] End-prep Base colling 과정에서 성공적으로 일어났는지 확인하기 위한 샘플 (à phage genome)		
	☐ Thaw the AMPure XP Beads (AXP) and DNA Control Sample (DCS) at RT and mix by vortexing. Keep the beads at RT and store the DNA Control Sample (DCS) on ice.		
	Prepare the <u>NEBNext Ultra II End Repair / dA-tailing Module reagents</u> in accordance with manufacturer's instructions, and place on ice:		
	 □ Thaw all reagents on ice. □ Flick and/or invert the reagent tubes to ensure they are well mixed. Note: Do not vortex the Ultra II End Prep Enzyme Mix. □ Always spin down tubes before opening for the first time each day. □ The Ultra II End Prep Buffer may have a little precipitate. Allow the mixture to come to RT and pipette the buffer up and down several times to break up the precipitate, followed by vortexing the tube for 30 sec onds to solubilise any precipitate. 		

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