



















1. Development of MH-UMIseq Panel	
MH-UMIseq	
1. Barcoding PCR (x 3 cycles)	
thread on a	UMI barcode
	- Poly $(H_6) \times Poly (H_6) = Poly (H_{12})$
H:AorTerC	= 3 ¹² = 531 K
2. Nuclease reaction	
+ Digest one-side PCR products	• Remove PCR artifacts by <u>Nuclease</u> by CleanPlex (Paragon Genomics)
3. Boosting PCR	
	• UMI-attached target amplification
4. Indexing PCR	by <u>Boosting PCR</u>
Read sequence Unique dual index + platform sequence	























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