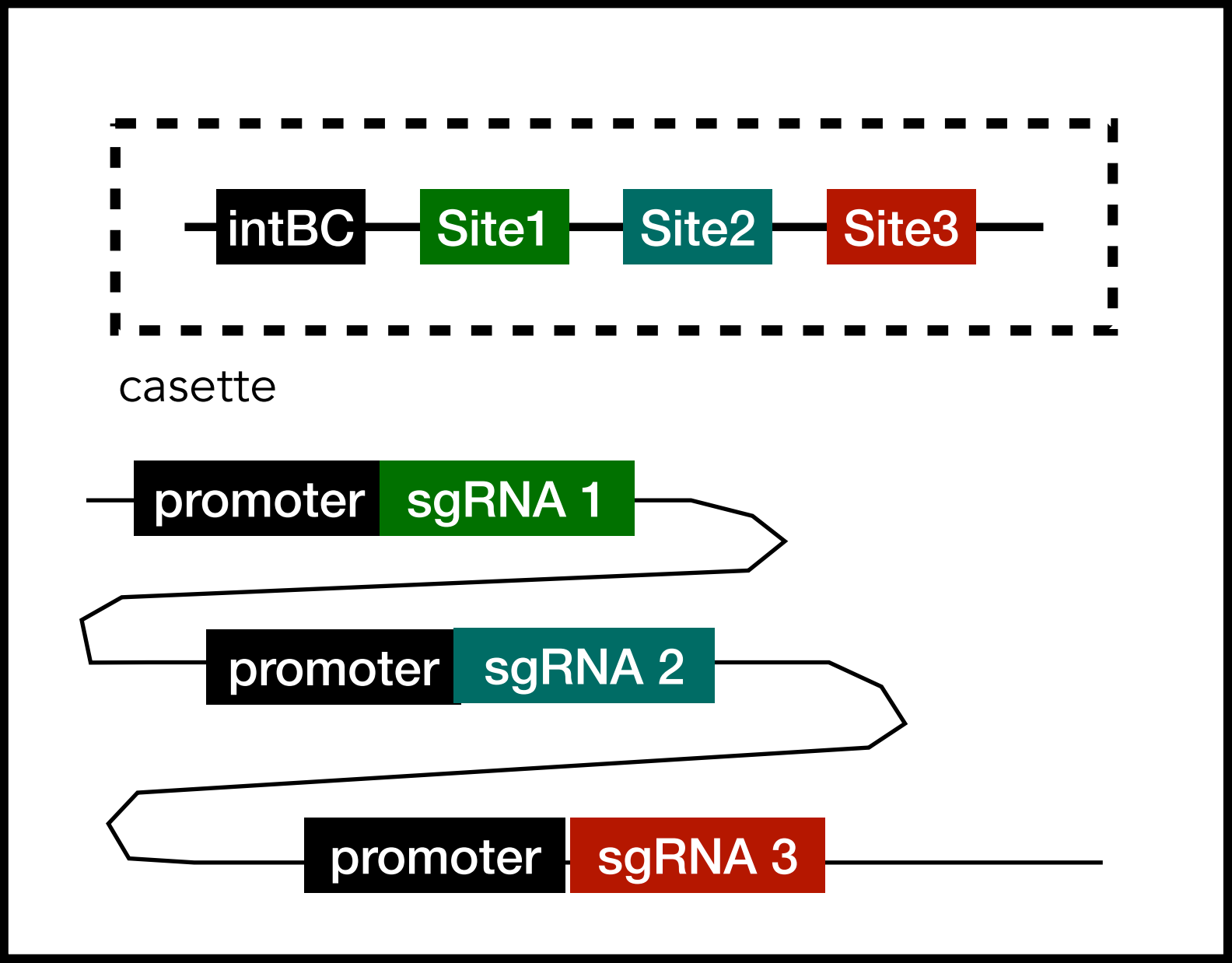








(A) Example lineage tracing system



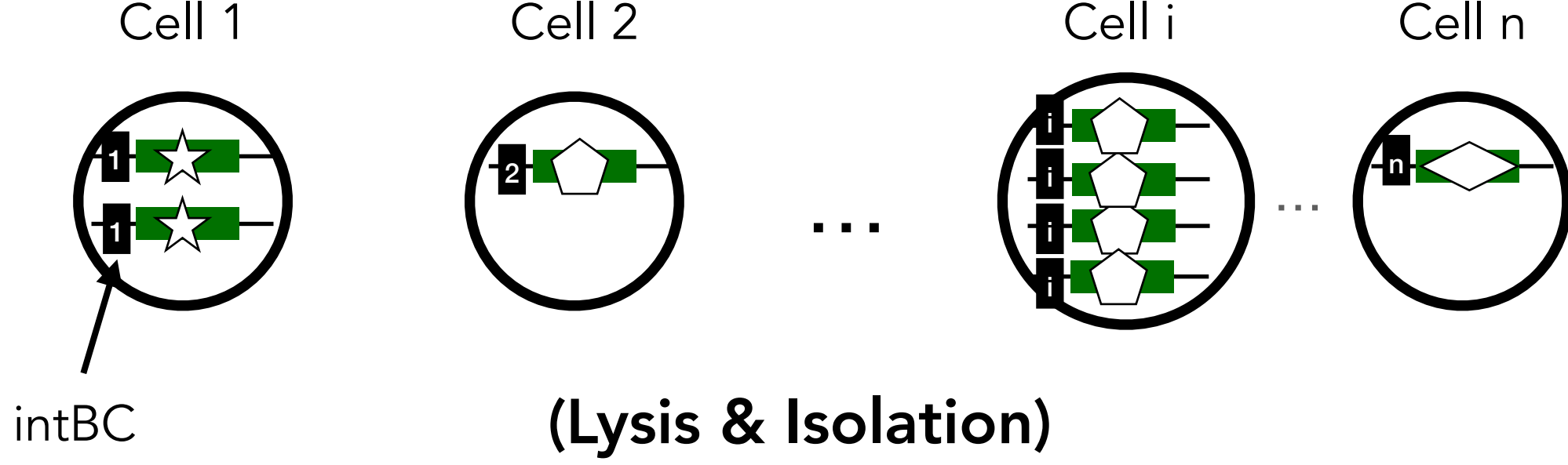
(C)

Read Index	Cell barcode	UMI	Character state
Read1	cell1		
Read2	cell1		
...
ReadR	cell n		

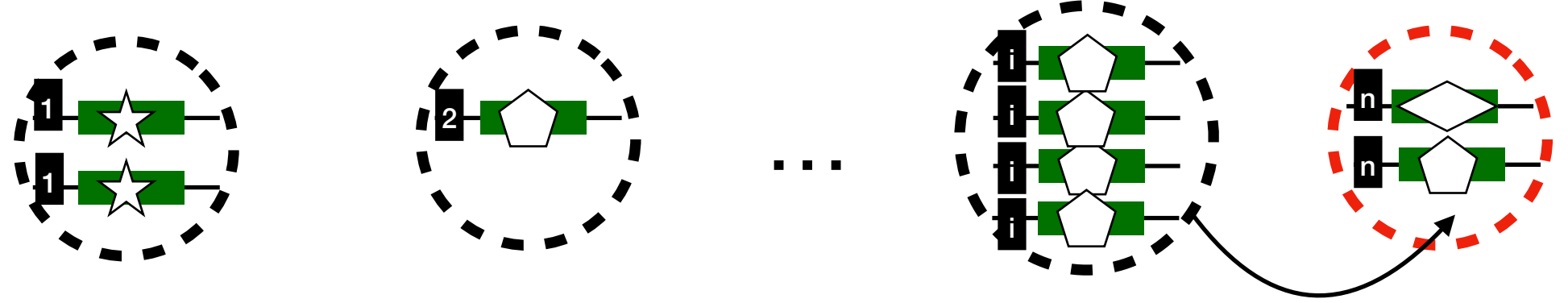


(B) (After lineage tracing, for a single site k)

Integration
and cell
divisions



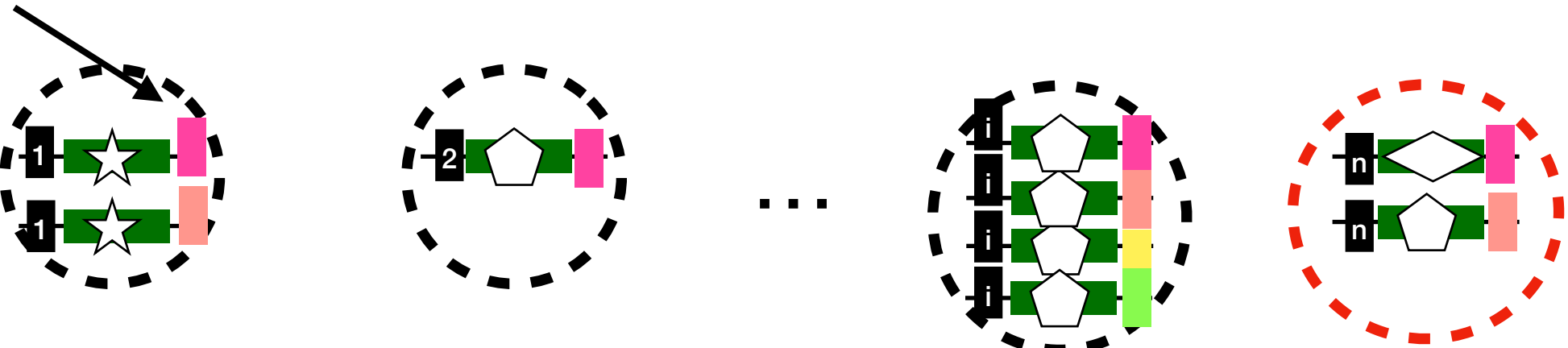
(Lysis & Isolation)



Transcript is misclassified and considered "ambient RNA"

UMI

Tag with UMIs



Amplification

single-cell
sequencing

