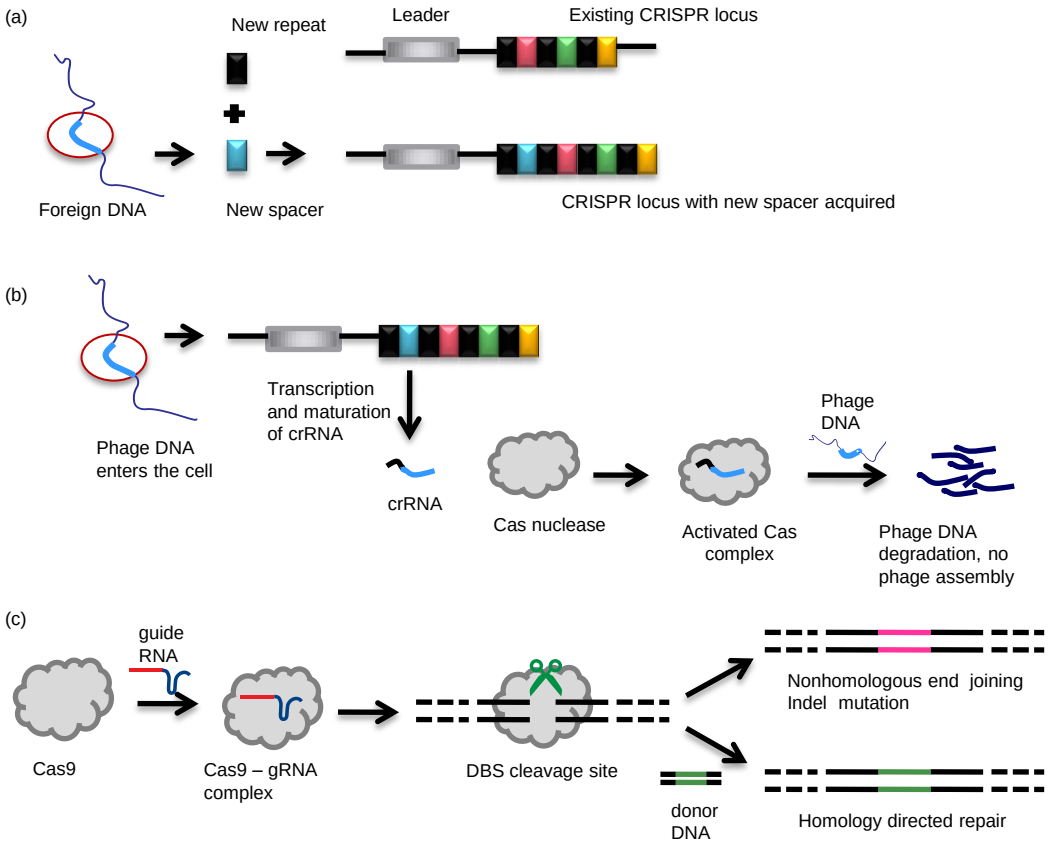
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(a)
New repeat
Leader
Existing CRISPR locus
Foreign DNA
New spacer
CRISPR locus with new spacer acquired
(b)
Phage DNA enters the cell
Transcription and maturation of crRNA
crRNA
Cas nuclease
Activated Cas complex
Phage DNA
Phage DNA degradation, no phage assembly
(c)
guide RNA
Cas9
Cas9 – gRNA complex
DBS cleavage site
Nonhomologous end joining Indel mutation
donor DNA
Homology directed repair