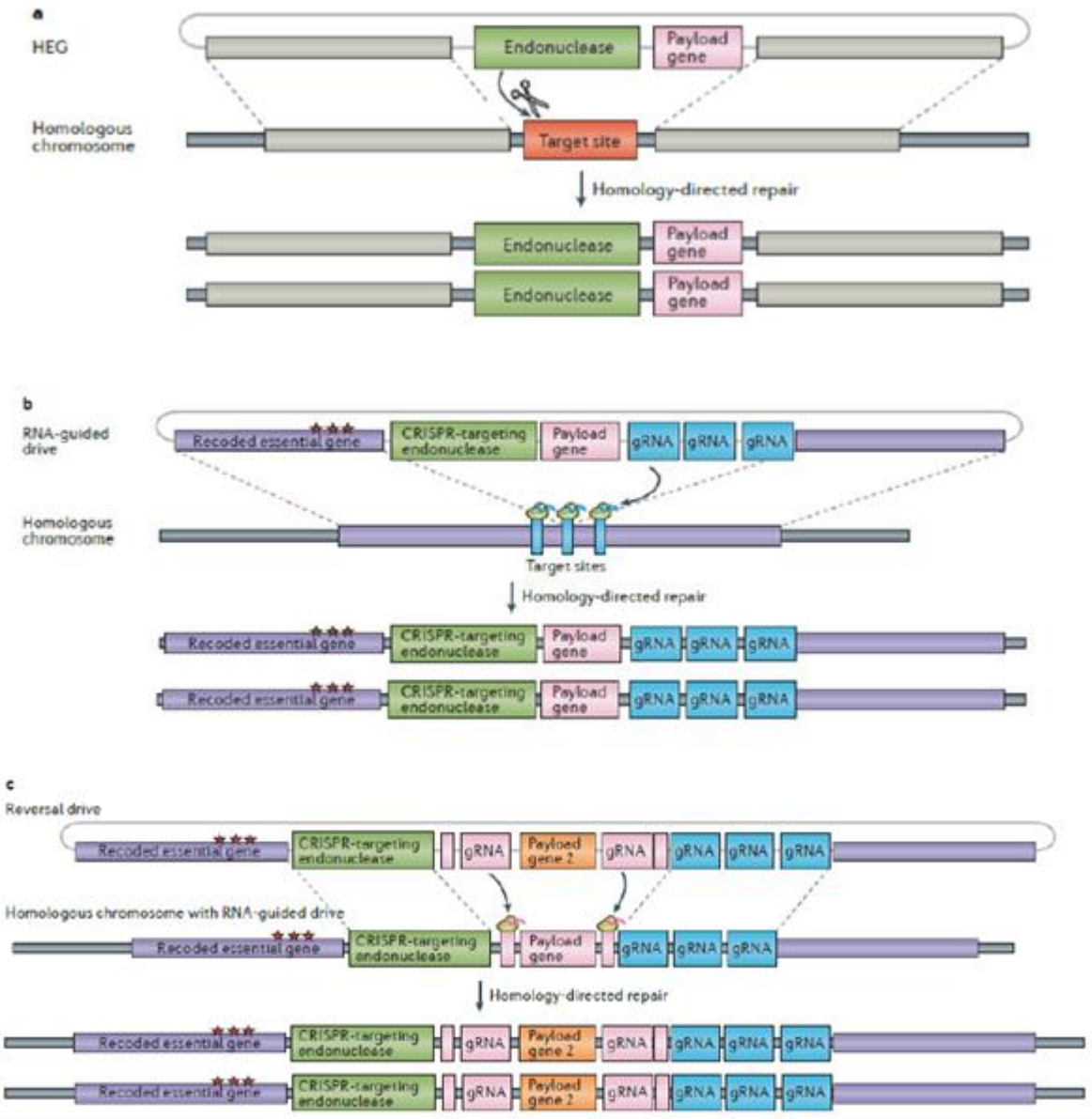
a
HEG
Endonuclease
Payload gene
Homologous chromosome
Target site
Homology-directed repair
Endonuclease
Payload gene
Endonuclease
Payload gene
b
RNA-guided drive
Recoded essential gene
CRISPR-targeting endonuclease
Payload gene
gRNA
gRNA
gRNA
Homologous chromosome
Target sites
Homology-directed repair
Recoded essential gene
CRISPR-targeting endonuclease
Payload gene
gRNA
gRNA
gRNA
Recoded essential gene
CRISPR-targeting endonuclease
Payload gene
gRNA
gRNA
gRNA
c
Reversal drive
Recoded essential gene
CRISPR-targeting endonuclease
gRNA
Payload gene 2
gRNA
gRNA
gRNA
gRNA
Homologous chromosome with RNA-guided drive
Recoded essential gene
CRISPR-targeting endonuclease
Payload gene
gRNA
gRNA
gRNA
Homology-directed repair
Recoded essential gene
CRISPR-targeting endonuclease
gRNA
Payload gene 2
gRNA
gRNA
gRNA
gRNA
Recoded essential gene
CRISPR-targeting endonuclease
gRNA
Payload gene 2
gRNA
gRNA
gRNA
gRNA