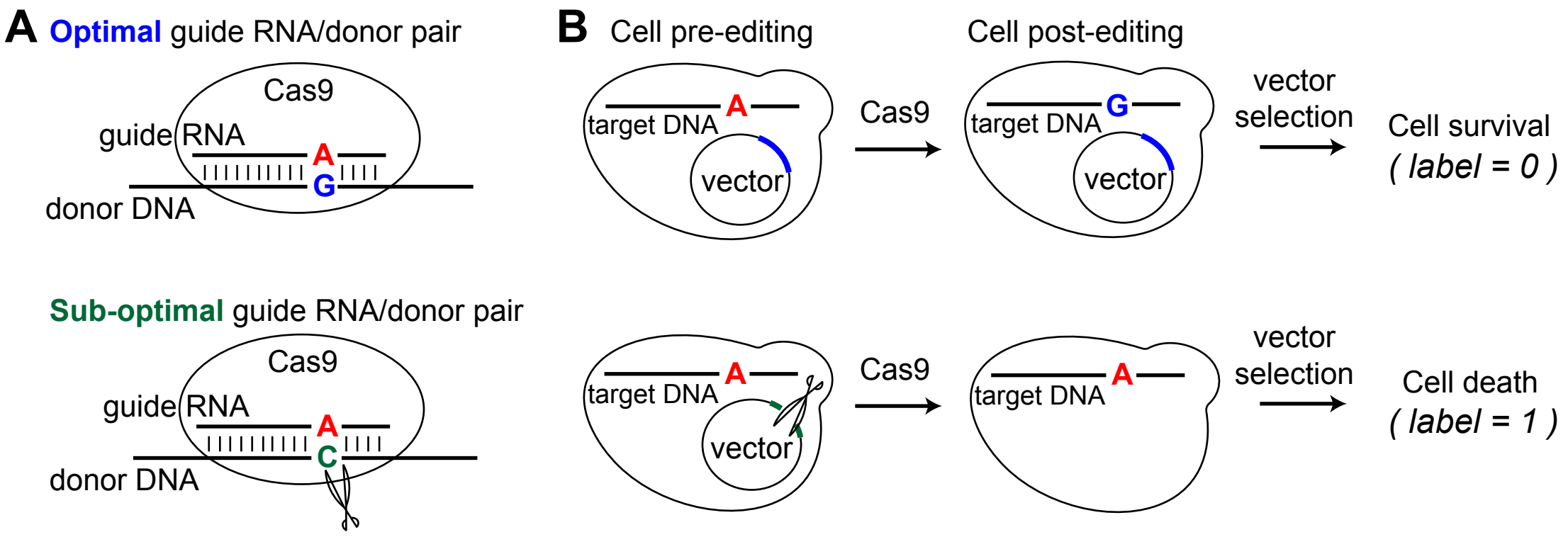
A
Optimal guide RNA/donor pair
Cas9
guide RNA
A
G
donor DNA
Sub-optimal guide RNA/donor pair
Cas9
guide RNA
A
C
donor DNA
B
Cell pre-editing
Cell post-editing
target DNA
A
vector
Cas9
target DNA
G
vector
vector selection
Cell survival
(label = 0)
target DNA
A
vector
Cas9
target DNA
A
vector selection
Cell death
(label = 1)