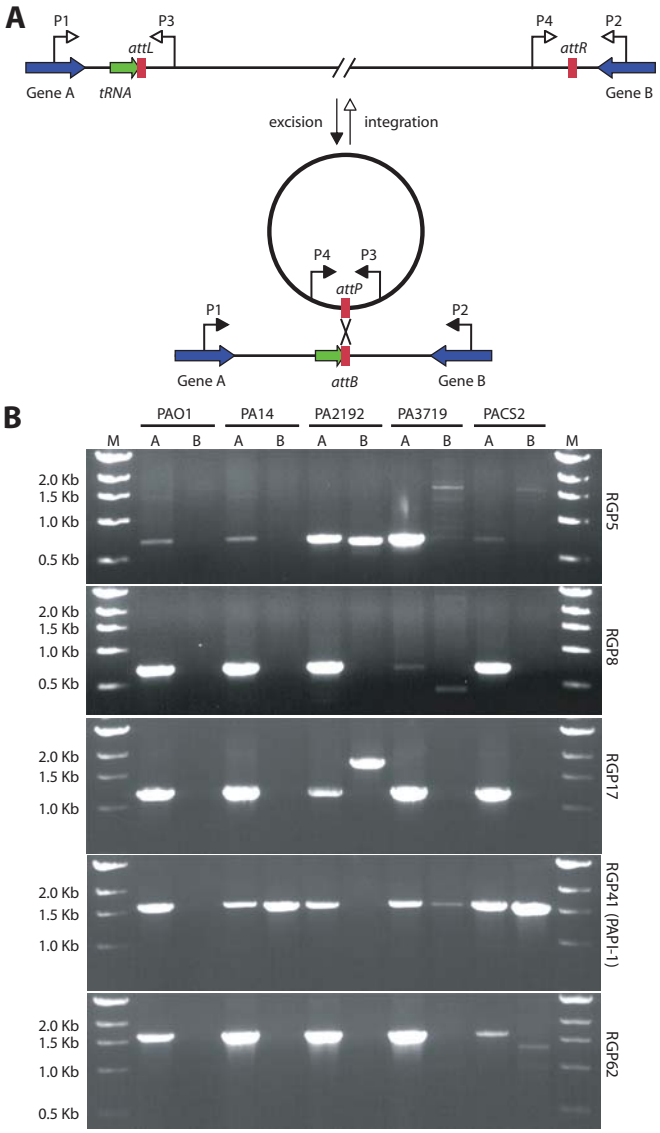
A
P1
P3
attL
P4
P2
attR
Gene A
tRNA
Gene B
excision
integration
P4
P3
attP
P1
P2
Gene A
attB
Gene B
B
PAO1
PA14
PA2192
PA3719
PACS2
M
A
B
A
B
A
B
A
B
A
B
M
2.0 Kb
1.5 Kb
1.0 Kb
0.5 Kb
RGP5
RGP8
RGP17
RGP41 (PAPI-1)
RGP62