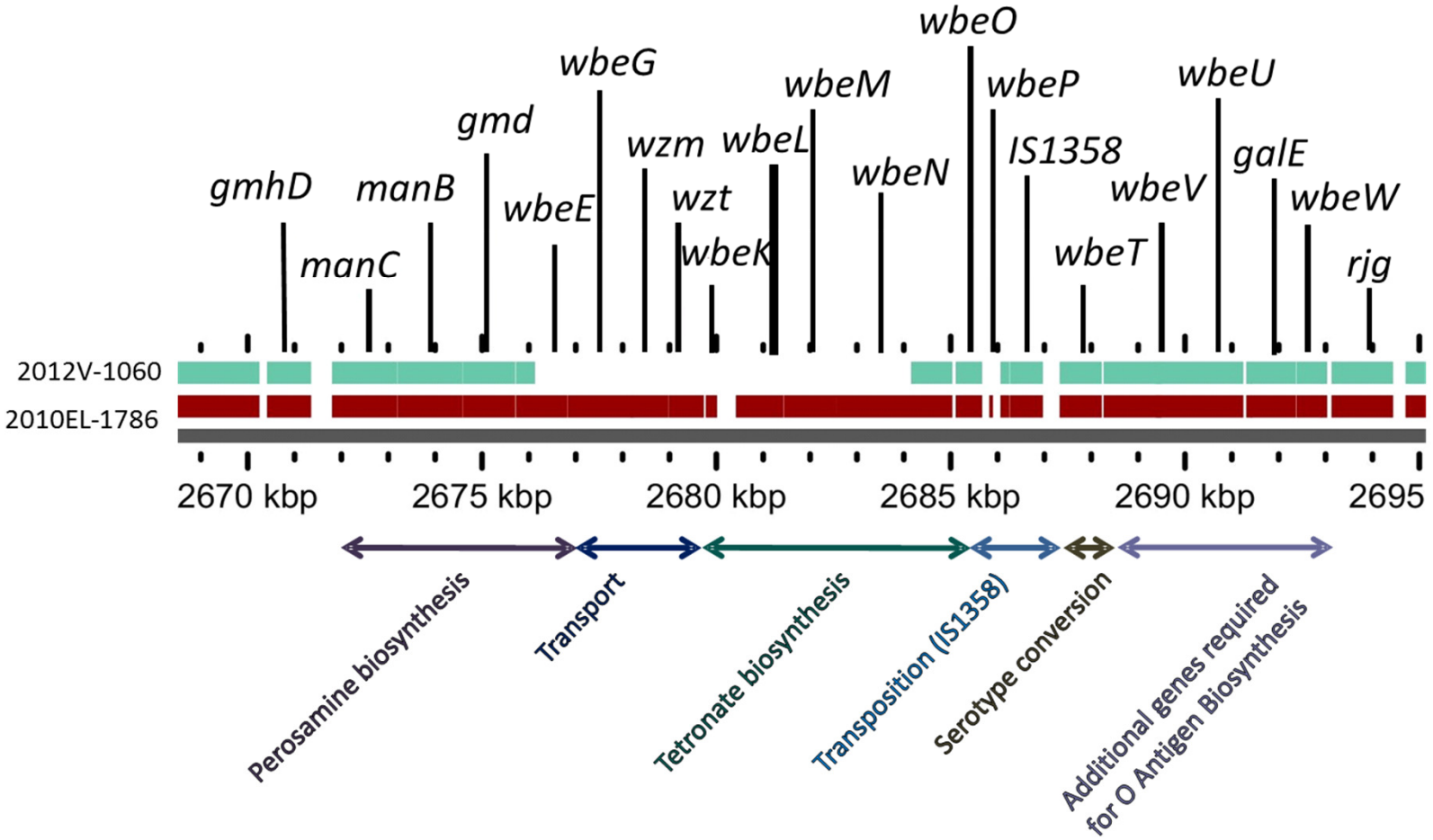
A


wbeO
wbeG
wbeM
wbeP
wbeU
gmd
wzm
wbeL
IS1358
galE
gmhD
manB
wbeE
wzt
wbeN
wbeV
wbeW
wbeK
wbeT
manC
rjg
2012V-1060
2010EL-1786
2670 kbp
2675 kbp
2680 kbp
2685 kbp
2690 kbp
2695
Perosamine biosynthesis
Transport
Tetronate biosynthesis
Transposition (IS1358)
Serotype conversion
Additional genes required for O Antigen Biosynthesis