



- cps4D      SP\_1264/dprA      SP\_1739      SP\_RS08765      spxR
- cpsC      SP\_1583      SP\_2105/glgP      SP\_RS11930      sufB/pbp3
- IctO      SP\_1600/SP\_1601      SP\_2198      SP\_RS12810      trpE/SP\_RS12900
- murE      SP\_1691/SP\_1692      SP\_RS01775      SP\_RS12940/ilvD      truA/SP\_1600
- other      SP\_1694/SP\_1695      SP\_RS07295      spxB