```
midas g 534, midas s 5291, Hjor.155
Bryobacter, midas s 6438, Kalu.261
Bryobacter, midas s 3298, Fred.662 (split)
Paludibaculum, midas s 675, Skiv.396 (split)
Komagataeibacter xylinus, QUERY
Rhodoferax, midas s 901, Aved.394
Rhodoferax, midas s 901, EsbW.485 (merged)
Dechloromonas, midas s 173, EsbW.050
Dechloromonas, midas s 173, Hade.364
Dechloromonas, midas s 173, Skiv.078 sub
Nitrotoga, midas s 181, OdNE.187
Nitrotoga, midas s 181, Skiv.176 (merged)
Simplicispira, Simplicispira limi, EsbW.453
Rhodoferax, midas s 4982, Bjer.458 A
Rhodoferax, midas s 4982, Bjer.458 B
consensus
```

```
332
VTEDA
        313
VTEDS
        334
VTEDA
        332
VTEDA
        334
        350
VTEDA
VTEDA
        325
VTEDA
        455
VTEDA
        455
VTEDA
        455
        443
VTEDA
VTEDA
        443
VTEDA
        419
VTEDA
        453
        162
VTEDA
*!!!*
```

X non-conserved

 $X \geq 50\%$ conserved