

```

          10      20      30      40      50
          |      |      |      |      |
PA2398-FpvA -----QEVEFDIPPQALGSALQEFGRQADIQVLYRPEEVRNK
PA4221-FptA -----
PA2466-FoxA -----AEAAAEQARPYAIPAGQLGDVLNRFAREAGITLSATPAQTGGY
PA0470-FiuA -----APAEQASVRDYRIAAGPLAGTLNRIAAQAGLVLTLDPALAEGR
PA1910-FemA -----AEAPAASSARSYDIAPGPLGRTL SAFASDNGVSLAFDPALTEGR
PA0674-VreA AVPGDGGRPPLRLAVHAFDIPPQSLASALVTYSGVTGMAVLVDGELARGR
          * *      ** * **      ** * *      **
          60      70      80      90      100
          |      |      |      |      |
PA2398-FpvA RSSAIK GKLEPNQAITELLRGTGASVDFQGN-AITISVAEAAADSSVDLGA
PA4221-FptA -----VADARKDGETELP
PA2466-FoxA SSQGLRGSFTVQOGLARLLADT PLEAEDQGDGSFVLREAPAKDGDVLMQ
PA0470-FiuA SAHAVQGRFDAPGALREALKGSGLLELVENAGGTYSLRKVPE---DTLSLQ
PA1910-FemA RSAALRGRYAPVEALHRLLLGSGLELQQRSDGSYTLVPAAT--DGALELQ
PA0674-VreA RSARLQGRFTASDALTRLLGGTGLMARYTSQEAF'LLPAQAVR-NAAPLP
          * ** ***      ** ** *****      *** * *      *

```

Figure S1. Alignment of mature PA0674 with the N-terminal part of known *P. aeruginosa* TonB-dependent receptor proteins.

Alignment of mature *P. aeruginosa* VreA (PA0674) with mature *P. aeruginosa* pyoverdine (FpvA), pyochelin (FptA), ferrioxamine B (FoxA), ferrichrome (FiuA) and mycobactin (FemA) receptor proteins. FpvA, FoxA, FiuA and FemA are involved in CSS and contain an N-terminal extension, whereas FptA, which is not part of a CSS system, does not have this extension. Asterisks below the sequences indicate positions at which identical or similar residues are presented at least in four of the sequences. Number of amino acid residues is indicated.