**Table S2.** **Deduced functions and homologues of the gene products from the *pig* clusters.** The relatedness of eachYD25T pig protein to its homologue in *S. marcescens* ATCC 274, *S. plymuthica* AS 13, and *Serratia* sp. ATCC 39006 is shown in the comparison of *Serratia* pig protein percentage sequence identitycolumn.

|  |  |  |
| --- | --- | --- |
| Protein | Comparison of Pigprotein (aa / Identity) | Putative Function |
| *Serratia* strainYD25T | *Serratia marcescens* ATCC 274 | *Serratia plymuthica* AS 13 | *Serratia* sp. ATCC 39006 |  |
| PigA | 385 | 385 | 374/385 (97 %) | 386 | 307/385 (80 %) | 386 | 303/385 (79 %) | anyl-CoA dehydrogenase |
| PigB | 669 | 671 | 646/671 (96 %) | 676 | 477/650 (73 %) | 670 | 476/659 (72 %) | no assigned function |
| PigC | 888 | 888 | 880/888 (99 %) | 890 | 703/888 (79 %) | 890 | 665/885 (75 %) | phosphortransferase |
| PigD | 903 | 904 | 883/904 (98 %) | 866 | 760/867 (88 %) | 866 | 736/867 (85 %) | no assigned function |
| PigE | 853 | 853 | 847/853 (99 %) | 853 | 763/853 (89 %) | 853 | 729/853 (85 %) | aminotransferase |
| PigF | 338 | 338 | 337/338 (99 %) | 341 | 284/338 (84 %) | 348 | 279/338 (83 %) | O-methyltransferase |
| PigG | 87 | 87 | 87/87 (100 %) | 87 | 70/87 (80 %) | 87 | 68/87 (78 %) | peptidyl carrier protein |
| PigH | 648 | 648 | 639/647 (99 %) | 656 | 526/656 (80 %) | 653 | 512/654 (78 %) | aminotransferase |
| PigI | 491 | 490 | 475/491 (97 %) | 489 | 338/491 (69 %) | 491 | 326/483 (67 %) | L-prolyl-AMP ligase |
| PigJ | 762 | 762 | 749/762 (98 %) | 770 | 538/768 (70 %) | 770 | 520/768 (68 %) | β-ketomyristol-ACP synthase |
| PigK | 104 | 104 | 104/104 (100 %) | 104 | 79/103 (77 %) | 104 | 74/102 (73 %) | no assigned function |
| PigL | 232 | 215 | 202/215 (94 %) | 214 | 97/172 (56 %) | 234 | 104/174 (60 %) | 4'-phosphopantetheinyltransferase |
| PigM | 352 | 352 | 347/352 (99 %) | 359 | 221/345 (64 %) | 359 | 212/343 (62 %) | no assigned function |
| PigN | 242 | 242 | 237/242 (98 %) | 242 | 190/242 (79 %) | 242 | 184/242 (76 %) | oxidoreductase |
| PigO | 0 | 0 |  | 0 |  | 157 |  | no assigned function |