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| **TABLE S8** | Prediction of virulence genes of the strain DE2 in VFDB |
| **virulence factors category** | **Specific virulence factors** | **numbers** |
| Adherence | Type IV pili | 13 |
| Trw type IV secretion system | 1 |
| TCP | 1 |
| Tap type IV pili | 2 |
| S fimbriae | 1 |
| Polar flagella | 25 |
| P5 protein | 1 |
| P fimbriae | 1 |
| MSHA pili | 1 |
| MAM7 | 1 |
| LPS | 1 |
| LOS | 1 |
| Lap | 4 |
| IlpA | 1 |
| Hsp60 | 1 |
| Flagella | 3 |
| FHA | 1 |
| EF-Tu | 2 |
| Capsule | 4 |
| CadF | 2 |
| Antimicrobial activity/Competitive advantage | AcrAB | 5 |
| FarAB | 6 |
| Biofilm | BopD | 5 |
| Csu fimbriae | 2 |
| AdeFGH efflux pump | 8 |
| Quorum-sensing | 1 |
| Effector delivery system | RicA | 1 |
| T4SS effectors | 4 |
| T6SS | 8 |
| Dot/Icm | 2 |
| HSI-I | 4 |
| TTSS | 6 |
| T3SS1 | 3 |
| Exe T2SS | 1 |
| T3SS | 1 |
| Rvh T4SS | 1 |
| VirB type IV secretion system | 3 |
| Exoenzyme | TlyC | 2 |
| Aureolysin | 1 |
| Exotoxin | The repeat in toxin | 8 |
| BopD | 7 |
| Phospholipase D | 1 |
| alpha-Hemolysin | 5 |
| Beta-hemolysin/cytolysin | 14 |
| Hemolysin III | 1 |
| Colibactin | 7 |
| Exolysin | 2 |
| Cya | 3 |
| Hemolysin | 3 |
| RTX toxin | 2 |
| Cytolysin | 1 |
| Hemolysin, HlyA | 1 |
| Ptx | 1 |
| Immune modulation | Alginate regulation | 4 |
| Capsule | 22 |
| Capsule I | 2 |
| Alginate | 7 |
| LOS | 29 |
| OatA | 1 |
| O-antigen | 1 |
| LPS | 8 |
| Rck | 1 |
| Invasion | Invasin B/Ifp | 1 |
| Flagella | 45 |
| Bsa T3SS | 1 |
| TTSS | 1 |
| OmpA | 1 |
| Motility | peritrichous flagella | 24 |
| polar flagella | 4 |
| Pse5Ac7Ac | 1 |
| Pse5Ac7Ac, Pse5Ac7Am, Pse8OAc, Pse5Am7AcGlnAc | 3 |
| Flagella | 2 |
| Lateral flagella | 1 |
| Nutritional/Metabolic factor | Acinetobactin | 7 |
| Allantio+E348:E496n utilization | 1 |
| Allantion utilization | 7 |
| amonabactin | 1 |
| Biotin synthesis | 3 |
| CcmC | 1 |
| Chu | 3 |
| Cytochrome c maturation locus | 5 |
| Ent | 5 |
| Enterobactin | 3 |
| FbpABC | 28 |
| FeoAB | 1 |
| FupA | 1 |
| GGT | 2 |
| HitABC | 17 |
| Legiobactin | 2 |
| MgtBC | 3 |
| Mycobactin | 2 |
| Phenazines biosynthesis | 3 |
| Purine biosynthesis | 1 |
| Pyochelin | 4 |
| pyoverdine | 33 |
| Pyrimidine biosynthesis | 4 |
| Rhizoferrin | 1 |
| Sal | 3 |
| Salmochelin siderophore | 3 |
| Shu | 3 |
| Ybt | 2 |
| Post-translational modification | Mip | 1 |
| PrsA2 | 1 |
| Regulation | CdpA | 11 |
| BfmRS | 10 |
| PhoP/R | 6 |
| PhoP | 4 |
| RelA | 2 |
| AI-2 | 1 |
| RcsAB | 3 |
| Quorom sensing | 1 |
| Stress survival | SodB | 1 |
| KatAB | 1 |
| ClpC | 2 |
| RecN | 1 |
| KatA | 1 |
| SodCI | 1 |
| MsrAB | 1 |
| MntABC | 3 |
| ClpP | 1 |
| Others | Isocitrate lyase | 1 |