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| **Table S2. Polymorphic loci in ancestral DvH and selected nucleotide in ECAN and ESAN.1** |
| Coordinate  | Affected Gene | Polymorphism  | ECAN2 | ESAN2 | AA change for ECAN | AA change for ESAN |
| 2775672 | DVU2664, *ptsB-2*, phosphate ABC transporter | **C**/G | C | G | None | A → P |
| 2381876 | DVU2287, *CooK*, hydrogenase | **T**/G  | G | T | U→G | U→S |
| 2381877 | DVU2287, *CooK*, hydrogenase | **G**/C | G | C |
| 1426830 | DVU1349, *SelGGPS*, geranylgeranyl diphosphate synthase | **T**/G | T | G | None | V→G |
| 2104739 | DVU2023, hypothetical protein | **G**/C | G | C | None | None |
| 2502193 | intergenic | **G**/C | G | C | None | Intergenic |
| 2905203 | DVU2802, transcriptional regulator, GntR family | **G**/A | A | G | A→T | None |
| 3169435 | DVU3045, *fexB*, sensory box histidine, kinase/response regulator | **G**/C | C | G | G→R | None |
| 1599469 | DVU1530, metallo-beta-lactamase family | **C**/T | T | C | None | None |
| 326403 | DVU0281, exopolysaccharide biosynthesis protein | **G**/A | A | G | None | None |
| 535249 | DVU0467, *trpD*, anthranilate phosphoribosyl transferase  | **G**/C | C | G | None | None |
| 1The table was constructed based on data from A. Zhou, K. L. Hillesland, Z. He, W. Schackwitz, et al., ISME J 9:2360 –2372, 2015, https://doi.org/10.1038/ismej.2015.45 |
| 2Grey shading indicates the selected nucleotide is a mutation (SNV) compared to the NCBI reference strain (NC\_002937).  |