**Supplementary Table S4.** The list of strains grouped by the 66 different types of rearrangements in the adhesins genes.

|  |  |  |  |
| --- | --- | --- | --- |
| ***Unic Phylogeographical origin*** | ***Reference strain*** | | ***strains with similar rearrangement*** |
|  | |  | Rif1 (HpEurope) |
|  | |  | Rif2 (HpEurope) |
|  | |  | 26695-1MET (hspAmerind) |
|  | | 26695 | dRdM1 (hspAmerind)  26695-dRdM1dM2 (hspAmerind) |
|  | |  | 26695-dR (hspAmerind) |
|  | |  | 26695-dRdM2 (hspAmerind) |
|  | |  | dRdM2addM2 (hspAmerind) |
|  | |  | HE143/09 |
|  | |  | HE178/09 |
|  | |  | HE132/09 |
|  | |  | HE134/09 |
|  | |  | HE141/09 |
| **HpEurope** | | HE171/09 | HE136/09 |
|  | |  | HE101/09 |
|  | |  | HE142/09 |
|  | |  | HE170/09 |
|  | |  | HE147/09 |
|  | |  | HE93/10\_v1 |
|  | | BCM-300 | ---- |
|  | | B38 | ---- |
|  | | B8 | ---- |
|  | |  | XZ274 (hspEAsia) |
|  | |  | 35A (hspEAsia) |
|  | | HUP-B14 | HPJP26 (hspAmerind) |
|  | |  | 83 (hspEAsia) |
|  | |  | Shi470 (hspAmerind) |

|  |  |  |
| --- | --- | --- |
|  |  | India7 (HpAsia2) |
| P12 | ---- |
| Lithuania75 | ---- |
| G27 | ---- |
| HPAG1 | ---- |
| **hspEAsia** | DU15 | ---- |
| F28 | F63 F51 F78 F209 F210 F211 F24 F55 F75 MKF3 MKM1 MKF8 51 F16 F57 OK310 OK113  BM013A (HpSahul)  BM013B (HpSahul) |
| F20 | F21 F23 F94  F32 |
| F72 | F67  F90 |

|  |  |  |
| --- | --- | --- |
|  |  | MKM6 |
| F18 | MKF10 |
| ML1 | ML2  ML3 |
| 26695-1CH | 26695-1CL |
| UM298 | UM299 |
| oki102 | oki112 |
| G272 | ---- |
| MKM5 | ---- |
| 52 | ---- |
| F38 | ---- |
| F13 | ---- |
| F17 | ---- |
| F70 | ---- |
| F30 | ---- |
| NY40 | ---- |
| UM032 | ---- |
| UM037 | ---- |
| UM066 | ---- |
| oki128 | ---- |
| oki154 | ---- |
| oki422 | ---- |
| oki673 | ---- |
| oki828 | ---- |
| oki898 | ---- |
| **hspAmerind** | 7.13\_R1a | 7.13\_R2b  7.13\_R1c  7.13\_R3a |
| Cuz20 | Shi417 |
| 29CaP | ---- |

|  |  |  |
| --- | --- | --- |
|  | 7C | ---- |
| 26695-1 | ---- |
| Aklavik86 | ---- |
| Aklavik117 | ---- |
| ELS37 | ---- |
| SJM180 | ---- |
| Sat464 | ---- |
| Shi112 | ---- |
| Shi169 | ---- |
| **HpAsia2** | L7 | K26A1 (hspSAfrica) |
| SNT49 | PeCan4 (hspAmerind)  PeCan18 (hspAmerind) |
| **hspSAfrica** | CC33C | Hp238 (hspEAsia) |
| **hspWAfrica** | J99 | ---- |
| Gambia94/24 | J166 (HpEurope) |
| 908 | ---- |
| 2017 | ---- |
| 2018 | ---- |
| **HpAfrica2** | SouthAfrica7 | ---- |
| SouthAfrica20 | Puno120 (hspAmerind)  Puno135 (hspAmerind) v225d (hspAmerind) |
| **HpSahul** | BM012A | ---- |
| BM012B | ---- |
| BM012S | ---- |
| ausabrJ05 | ---- |
| PNG84A | ---- |
| PMSS1 | ---- |
| SS1 | ---- |