Supplementary Table S1. *Helicobacter pylori* strains analyzed. ID, phylogeography origin and pathogenic phenotype by Strain are identified.

|  |  |  |  |
| --- | --- | --- | --- |
| Strain | ID number | Phylogeographic origin | Pathogenic phenotype |
| BM013A | NZ\_CP007604 | HpSahul (Wattam et al., 2013) | ---- |
| BM012B | NZ\_CP007605 | HpSahul (Wattam et al., 2013) | ---- |
| BM013B | NZ\_CP007606 | HpSahul (Wattam et al., 2013) | ---- |
| Hp238 | NZ\_CP010013 | hspEAsia (Wattam et al., 2013) | Gastric Lymphoma (Wattam et al., 2013) |
| 26695-1MET | NZ\_CP010436 | hspAmerind (Wattam et al., 2013) | ---- |
| BM013A | NZ\_CP007604 | HpSahul (Wattam et al., 2013) | ---- |
| BM012B | NZ\_CP007605 | HpSahul (Wattam et al., 2013) | ---- |
| Hp238 | NZ\_CP010013 | hspEAsia (Wattam et al., 2013) | Gastric Lymphoma (Wheeler et al., 2006) |
| 29CaP | NZ\_CP012907 | hspAmerind (Wattam et al., 2013) | Gastritis/ Gastric Adenocarcinoma (Wattam et al., 2013) |
| 7C | NZ\_CP012905 | hspAmerind (Wattam et al., 2013) | Gastritis (Wheeler et al., 2006) |
| L7 | NZ\_CP011482 | HpAsia2 (Wattam et al., 2013) | ---- |
| DU15 | NZ\_CP011483 | hspEAsia (Wattam et al., 2013) | ---- |
| CC33C | NZ\_CP011484 | hspSAfrica (Wattam et al., 2013) | ---- |
| ausabrJ05 | NZ\_CP011485 | HpSahul (Wattam et al., 2013) | ---- |
| K26A1 | NZ\_CP011486 | hspSAfrica (Wattam et al., 2013) | ---- |
| PNG84A | NZ\_CP011487 | HpSahul (Wattam et al., 2013) | ---- |
| G272 | NZ\_CP022409 | hspEAsia (Wattam et al., 2013) | Gastritis (Wattam et al., 2013) |
| HPJP26 | NZ\_CP023448 | hspAmerind (Wattam et al., 2013) | ---- |
| dRdM1 | CP026325 | hspAmerind (Wattam et al., 2013) | ---- |
| 26695-dRdM1dM2 | CP026323 | hspAmerind (Wattam et al., 2013) | ---- |
| 26695-dR | CP026326 | hspAmerind (Wattam et al., 2013) | ---- |
| 26695-dRdM2 | CP026324 | hspAmerind (Wattam et al., 2013) | ---- |
| 7.13\_R1c | CP024073 | hspAmerind (Wattam et al., 2013) | ---- |
| 7.13\_R3a | CP024077 | hspAmerind (Wattam et al., 2013) | ---- |
| 7.13\_R2b | CP024075 | hspAmerind (Wattam et al., 2013) | ---- |
| 7.13\_R1a | CP024071 | hspAmerind (Wattam et al., 2013) | ---- |
| dRdM2addM2 | CP026515 | hspAmerind (Wheeler et al., 2006) | ---- |
| HE171/09 | LT635474 | HpEurope (Wheeler et al., 2006) | ---- |
| HE143/09 | LT635458 | HpEurope (Wheeler et al., 2006) | ---- |
| HE178/09 | LT635460 | HpEurope (Wheeler et al., 2006) | ---- |
| HE132/09 | LT635459 | HpEurope (Wheeler et al., 2006) | ---- |
| HE134/09 | LT635476 | HpEurope (Wheeler et al., 2006) | ---- |
| HE141/09 | LT635471 | HpEurope (Wheeler et al., 2006) | ---- |
| HE136/09 | LT635473 | HpEurope (Wheeler et al., 2006) | ---- |
| HE101/09 | LT635456 | HpEurope (Wheeler et al., 2006) | ---- |
| HE142/09 | LT635478 | HpEurope (Wheeler et al., 2006) | ---- |
| HE170/09 | LT635472 | HpEurope (Wheeler et al., 2006) | ---- |
| HE147/09 | LT635477 | HpEurope (Wheeler et al., 2006) | ---- |
| BCM-300 | LT837687 | HpEurope (Wheeler et al., 2006) | ---- |
| HE93/10\_v1 | LT838273 | HpEurope (Wheeler et al., 2006) | ---- |
| MKM5 | NZ\_AP017360 | hspEAsia (Wattam et al., 2013) | ---- |
| F28 | NZ\_AP017339 | hspEAsia (Wattam et al., 2013) | ---- |
| F38 | NZ\_AP017341 | hspEAsia (Wattam et al., 2013) | ---- |
| F63 | NZ\_AP017346 | hspEAsia (Wattam et al., 2013) | ---- |
| F51 | NZ\_AP017343 | hspEAsia (Wattam et al., 2013) | ---- |
| F78 | NZ\_AP017352 | hspEAsia (Wattam et al., 2013) | ---- |
| F13 | NZ\_AP017329 | hspEAsia (Wattam et al., 2013) | ---- |
| F17 | NZ\_AP017330 | hspEAsia (Wattam et al., 2013) | ---- |
| F18 | NZ\_AP017331 | hspEAsia (Wattam et al., 2013) | ---- |
| F209 | NZ\_AP017332 | hspEAsia (Wattam et al., 2013) | ---- |
| F20 | NZ\_AP017333 | hspEAsia (Wattam et al., 2013) | ---- |
| F210 | NZ\_AP017334 | hspEAsia (Wattam et al., 2013) | ---- |
| F211 | NZ\_AP017335 | hspEAsia (Wattam et al., 2013) | ---- |
| F21 | NZ\_AP017336 | hspEAsia (Wattam et al., 2013) | ---- |
| F23 | NZ\_AP017337 | hspEAsia (Wattam et al., 2013) | ---- |
| F24 | NZ\_AP017338 | hspEAsia (Wattam et al., 2013) | ---- |
| F55 | NZ\_AP017345 | hspEAsia (Wattam et al., 2013) | ---- |
| F67 | NZ\_AP017348 | hspEAsia (Wattam et al., 2013) | ---- |
| F70 | NZ\_AP017349 | hspEAsia (Wattam et al., 2013) | ---- |
| F72 | NZ\_AP017350 | hspEAsia (Wattam et al., 2013) | ---- |
| F75 | NZ\_AP017351 | hspEAsia (Wattam et al., 2013) | ---- |
| F90 | NZ\_AP017354 | hspEAsia (Wattam et al., 2013) | ---- |
| F94 | NZ\_AP017355 | hspEAsia (Wattam et al., 2013) | ---- |
| MKF10 | NZ\_AP017356 | hspEAsia (Wheeler et al., 2006) | ---- |
| MKF3 | NZ\_AP017357 | hspEAsia (Wheeler et al., 2006) | ---- |
| MKF8 | NZ\_AP017358 | hspEAsia (Wheeler et al., 2006) | ---- |
| MKM1 | NZ\_AP017359 | hspEAsia (Wheeler et al., 2006) | ---- |
| MKM6 | NZ\_AP017362 | hspEAsia (Wheeler et al., 2006) | ---- |
| ML1 | AP014710 | hspEAsia (Wheeler et al., 2006) | Gastric Lymphoma (Wattam et al., 2013) |
| ML2 | AP014711 | hspEAsia (Wheeler et al., 2006) | Gastric Lymphoma (Wattam et al., 2013) |
| ML3 | AP014712 | hspEAsia (Wheeler et al., 2006) | Gastric Lymphoma (Wattam et al., 2013) |
| 2017 | NC\_017374 | hspWAfrica (Kumar et al., 2015) | ---- |
| 2018 | NC\_017381 | hspWAfrica (Kumar et al., 2015) | ---- |
| 26695 | NC\_000915 | HpEurope (Kumar et al., 2015) | Gastritis/ Peptic Ulcer (Wattam et al., 2013) |
| 26695-1 | NZ\_CP010435 | hspAmerind (Wheeler et al., 2006) | ---- |
| 26695-1CH | NZ\_AP013355 | hspEAsia (Wheeler et al., 2006) | ---- |
| 26695-1CL | NZ\_AP013356 | hspEAsia (Wheeler et al., 2006) | ---- |
| 35A | NC\_017360 | hspEAsia (Kumar et al., 2015) | Gastritis/ Peptic Ulcer (Wheeler et al., 2006) |
| 51 | NC\_017382 | hspEAsia (Kumar et al., 2015) | Gastritis/ Peptic Ulcer (Wheeler et al., 2006) |
| 52 | NC\_017354 | hspEAsia (Kumar et al., 2015) | Gastric Adenocarcinoma (Wattam et al., 2013) |
| 83 | NC\_017375 | hspEAsia (Kumar et al., 2015) | Gastritis/ Peptic Ulcer (Wheeler et al., 2006) |
| 908 | NC\_017357 | hspWAfrica (Kumar et al., 2015) | ---- |
| Aklavik117 | NC\_019560 | hspAmerind (Wheeler et al., 2006) | Gastritis (Wheeler et al., 2006) |
| Aklavik86 | NC\_019563 | hspAmerind (Wheeler et al., 2006) | Gastritis (Wheeler et al., 2006) |
| B38 | NC\_012973 | HpEurope (Wheeler et al., 2006) | Peptic Ulcer (Wheeler et al., 2006) |
| B8 | NC\_014256 | HpEurope (Kumar et al., 2015) | Peptic Ulcer (Wheeler et al., 2006) |
| BM012A | NC\_022886 | HpSahul (Wattam et al., 2013) | Gastritis (Wheeler et al., 2006) |
| BM012S | NC\_022911 | HpSahul (Wattam et al., 2013) | Gastritis (Wheeler et al., 2006) |
| Cuz20 | NC\_017358 | hspAmerind (Kumar et al., 2015) | ---- |
| ELS37 | NC\_017063 | hspAmerind (Wheeler et al., 2006) | Gastric Adenocarcinoma (Wheeler et al., 2006) |
| F16 | NC\_017368 | hspEAsia (Kumar et al., 2015) | ---- |
| F30 | NC\_017365 | hspEAsia (Kumar et al., 2015) | ---- |
| F32 | NC\_017366 | hspEAsia (Kumar et al., 2015) | ---- |
| F57 | NC\_017367 | hspEAsia (Kumar et al., 2015) | ---- |
| G27 | NC\_011333 | HpEurope (Kumar et al., 2015) | Peptic Ulcer (Wheeler et al., 2006) |
| Gambia94/24 | NC\_017371 | hspWAfrica (Wattam et al., 2013) | ---- |
| HPAG1 | NC\_008086 | HpEurope (Kumar et al., 2015) | Gastritis/ Peptic Ulcer (Wattam et al., 2013) |
| HUP-B14 | NC\_017733 | HpEurope (Kumar et al., 2015) | ---- |
| India7 | NC\_017372 | HpAsia2 (Wheeler et al., 2006) | ---- |
| J166 | NZ\_CP007603 | HpEurope (Wheeler et al., 2006) | ---- |
| J99 | NC\_000921 | hspWAfrica (Wheeler et al., 2006) | Gastritis/ Peptic Ulcer (Wheeler et al., 2006) |
| Lithuania75 | NC\_017362 | HpEurope (Kumar et al., 2015) | ---- |
| NY40 | NZ\_AP014523 | hspEAsia (Wattam et al., 2013) | ---- |
| OK113 | NC\_020508 | hspEAsia (Kumar et al., 2015) | ---- |
| OK310 | NC\_020509 | hspEAsia (Kumar et al., 2015) | ---- |
| P12 | NC\_011498 | HpEurope (Kumar et al., 2015) | Peptic Ulcer (Wheeler et al., 2006) |
| PMSS1 | NZ\_CP018823 | HpSahul (Wheeler et al., 2006) | Peptic Ulcer (Wattam et al., 2013) |
| PeCan18 | NC\_017742 | hspAmerind (Wattam et al., 2013) | Gastric Adenocarcinoma (Wheeler et al., 2006) |
| PeCan4 | NC\_014555 | hspAmerind (Kumar et al., 2015) | Gastric Adenocarcinoma (Wheeler et al., 2006) |
| Puno120 | NC\_017378 | hspAmerind (Kumar et al., 2015) | Gastritis (Wheeler et al., 2006) |
| Puno135 | NC\_017379 | hspAmerind (Kumar et al., 2015) | Gastritis (Wheeler et al., 2006) |
| Rif1 | NC\_018937 | HpEurope (Kumar et al., 2015) | ---- |
| Rif2 | NC\_018938 | HpEurope (Kumar et al., 2015) | ---- |
| SJM180 | NC\_014560 | hspAmerind (Wattam et al., 2013) | Gastritis (Wheeler et al., 2006) |
| SNT49 | NC\_017376 | HpAsia2 (Kumar et al., 2015) | ---- |
| SS1 | NZ\_CP009259 | HpSahul (Wattam et al., 2013) | ---- |
| Sat464 | NC\_017359 | hspAmerind (Kumar et al., 2015) | ---- |
| Shi112 | NC\_017741 | hspAmerind (Kumar et al., 2015) | Gastritis (Wheeler et al., 2006) |
| Shi169 | NC\_017740 | hspAmerind (Kumar et al., 2015) | Gastritis (Wheeler et al., 2006) |
| Shi417 | NC\_017739 | hspAmerind (Kumar et al., 2015) | Gastritis (Wheeler et al., 2006) |
| Shi470 | NC\_010698 | hspAmerind (Kumar et al., 2015) | Gastritis/ Peptic Ulcer (Wattam et al., 2013) |
| SouthAfrica20 | CP006691 | HpAfrica2 (Duncan et al., 2013) | ---- |
| SouthAfrica7 | NC\_017361 | HpAfrica2 (Duncan et al., 2013) | ---- |
| UM032 | NC\_021215 | hspEAsia (Wheeler et al., 2006) | ---- |
| UM037 | NC\_021217 | hspEAsia (Wattam et al., 2013) | ---- |
| UM066 | NC\_021218 | hspEAsia (Wheeler et al., 2006) | ---- |
| UM298 | NC\_021882 | hspEAsia (Wheeler et al., 2006) | ---- |
| UM299 | NC\_021216 | hspEAsia (Wheeler et al., 2006) | ---- |
| XZ274 | CP003419 | hspEAsia (Kumar et al., 2015) | Gastric Adenocarcinoma (Wheeler et al., 2006) |
| oki102 | NZ\_CP006820 | hspEAsia (Wheeler et al., 2006) | Gastritis/ Atrophic Gastritis (Wheeler et al., 2006) |
| oki112 | NZ\_CP006821 | hspEAsia (Wheeler et al., 2006) | Gastritis/ Atrophic Gastritis (Wheeler et al., 2006) |
| oki128 | NZ\_CP006822 | hspEAsia (Wheeler et al., 2006) | Gastritis/ Atrophic Gastritis (Wheeler et al., 2006) |
| oki154 | NZ\_CP006823 | hspEAsia (Wheeler et al., 2006) | Gastritis/ Atrophic Gastritis (Wheeler et al., 2006) |
| oki422 | NZ\_CP006824 | hspEAsia (Wheeler et al., 2006) | Gastritis/ Atrophic Gastritis (Wheeler et al., 2006) |
| oki673 | NZ\_CP006825 | hspEAsia (Wheeler et al., 2006) | Peptic Ulcer (Wheeler et al., 2006) |
| oki828 | NZ\_CP006826 | hspEAsia (Wheeler et al., 2006) | Peptic Ulcer (Wheeler et al., 2006) |
| oki898 | NZ\_CP006827 | hspEAsia (Wheeler et al., 2006) | Peptic Ulcer (Wheeler et al., 2006) |
| v225d | NC\_017355 | hspAmerind (Kumar et al., 2015) | Gastritis (Wheeler et al., 2006) |

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