

Table 1. Genes present in *H. pylori* HPAG1, 26695, or J99 but absent in Kx1 and Kx2.

Locus	Annotation
HPAG1_0049	type II restriction enzyme [<i>Helicobacter pylori</i> HPAG1]
HPAG1_0050	type II restriction enzyme
HPAG1_0218	beta-1,4-N-acetylgalactosamyltransferase
HPAG1_0219	beta-1,4-N-acetylgalactosamyltransferase
HPAG1_0227	hypothetical protein HPAG1_0227
HPAG1_0353	hypothetical protein HPAG1_0353
HPAG1_0458	type II adenine specific DNA methyltransferase
HPAG1_0459	type II restriction endonuclease
HPAG1_0624	hypothetical protein HPAG1_0624
HPAG1_0673	putative type II restriction enzyme
HPAG1_0751	hypothetical protein HPAG1_0751
HPAG1_0929	protein tRNA-associated locus protein
HPAG1_0967	hypothetical protein HPAG1_0967
HPAG1_1160	hypothetical protein HPAG1_1160
HPAG1_1161	hypothetical protein HPAG1_1161
HPAG1_1279	hypothetical protein HPAG1_1279
HPAG1_1280	hypothetical protein HPAG1_1280
HPAG1_1281	hypothetical protein HPAG1_1281
HPAG1_1333	hypothetical protein HPAG1_1333
HPAG1_1334	hypothetical protein HPAG1_1334
HPAG1_1359	hypothetical protein HPAG1_1359
HPAG1_1396	hypothetical protein HPAG1_1396
HPAG1_1413	type II adenine specific DNA methyltransferase
HPAG1_1441	restriction enzyme BcgI alpha chain-like protein
HPAG1_1442	restriction enzyme BcgI alpha chain-like protein
HPAG1_1443	restriction enzyme BcgI alpha chain-like protein
HPAG1_1463	hypothetical protein HPAG1_1463
HPAG1_1467	hypothetical protein HPAG1_1467
HPAG1_1480	hypothetical protein HPAG1_1480
HPAG1_p001	replication initiation protein A
HPAG1_p003	replication initiation protein A
HP0008	hypothetical protein HP0008 [<i>Helicobacter pylori</i> 26695]
HP0052	hypothetical protein HP0052 [<i>Helicobacter pylori</i> 26695]
HP0091	type II restriction enzyme R protein (hsdR)
HP0217	hypothetical protein HP0217
HP0225	hypothetical protein HP0225
HP0314	hypothetical protein HP0314
HP0315	virulence associated protein D (vapD)
HP0339	hypothetical protein HP0339
HP0340	hypothetical protein HP0340
HP0342	hypothetical protein HP0342
HP0343	hypothetical protein HP0343
HP0344	hypothetical protein HP0344
HP0346	hypothetical protein HP0346
HP0425	hypothetical protein HP0425
HP0428	phage/colicin/tellurite resistance cluster terY protein
HP0429	hypothetical protein HP0429
HP0430	hypothetical protein HP0430
HP0431	protein phosphatase 2C homolog (ptc1)
HP0432	protein kinase C-like protein

HP0433	hypothetical protein HP0433
HP0434	hypothetical protein HP0434
HP0445	hypothetical protein HP0445
HP0448	hypothetical protein HP0448
HP0449	hypothetical protein HP0449
HP0450	hypothetical protein HP0450
HP0451	hypothetical protein HP0451
HP0453	hypothetical protein HP0453
HP0455	hypothetical protein HP0455
HP0456	hypothetical protein HP0456
HP0458	hypothetical protein HP0458
HP0460	hypothetical protein HP0460
HP0461	hypothetical protein HP0461
HP0481	adenine specific DNA methyltransferase (MFOKI)
HP0484	hypothetical protein HP0484
HP0670	hypothetical protein HP0670
HP0704	hypothetical protein HP0704
HP0765	hypothetical protein HP0765
HP0767	hypothetical protein HP0767
HP0855	alginate O-acetylation protein (agl)
HP0856	hypothetical protein HP0856
HP0881	hypothetical protein HP0881
HP0917	hypothetical protein HP0917
HP0945	hypothetical protein HP0945
HP0967	virulence associated protein D (vapD)
HP0982	hypothetical protein HP0982
HP0984	hypothetical protein HP0984
HP0985	hypothetical protein HP0985
HP0986	hypothetical protein HP0986
HP1094	hypothetical protein HP1094
HP1283	hypothetical protein HP1283
HP1366	type IIS restriction enzyme R protein (MBOIIR)
HP1381	hypothetical protein HP1381
HP1388	hypothetical protein HP1388
HP1389	hypothetical protein HP1389
HP1410	hypothetical protein HP1410
HP1433	hypothetical protein HP1433
HP1472	type IIS restriction enzyme M protein (mod)
HP1499	hypothetical protein HP1499
HP1500	hypothetical protein HP1500
HP1515	hypothetical protein HP1515
HP1516	hypothetical protein HP1516
HP1519	hypothetical protein HP1519
HP1520	hypothetical protein HP1520
HP1536	hypothetical protein HP1536
JHP0046	putative TYPE II restriction enzyme
JHP0164	putative restriction enzyme
JHP0165	hypothetical protein JHP0165
JHP0203	hypothetical protein JHP0203
JHP0436	hypothetical protein JHP0436
JHP0755	hypothetical protein JHP0755
JHP0829	hypothetical protein JHP0829
JHP0925	hypothetical protein JHP0925

JHP0930	hypothetical protein JHP0930
JHP0932	hypothetical protein JHP0932
JHP0933	hypothetical protein JHP0933
JHP0944	hypothetical protein JHP0944
JHP0948	hypothetical protein JHP0948
JHP1043	hypothetical protein JHP1043
JHP1049	hypothetical protein JHP1049
JHP1132	hypothetical protein JHP1132
JHP1160	hypothetical protein JHP1160
JHP1303	hypothetical protein JHP1303
JHP1326	hypothetical protein JHP1326
JHP1365	putative TYPE II DNA MODIFICATION ENZYME (METHYLTRANSFERASE)
JHP1392	hypothetical protein JHP1392
JHP1393	hypothetical protein JHP1393
JHP1442	TYPE II RESTRICTION ENZYME
JHP1462	hypothetical protein JHP1462