

**Supplementary table 8 : *Helicobacter pylori* infection status of analyzed samples**

Sample ID	Gender	Age	Age group	Primary diagnosis	<i>H. pylori</i> status (sequence)
226973_2DT.v4	Female	48	2	Atrophic gastritis	<i>H. pylori</i> negative
973_1_Di.v4	Male	35	1	Atrophic gastritis	<i>H. pylori</i> negative
973_1_T.v4	Male	35	1	Atrophic gastritis	<i>H. pylori</i> negative
973_15_Dou.v4	Male	32	1	Atrophic gastritis	<i>H. pylori</i> negative
973_19_Di.v4	Male	62	3	Atrophic gastritis	<i>H. pylori</i> negative
973_2_DOU.v4	Female	48	2	Atrophic gastritis	<i>H. pylori</i> negative
973_5_DI.v4	Male	43	2	Atrophic gastritis	<i>H. pylori</i> negative
973_6_T.v4	Female	41	2	Atrophic gastritis	<i>H. pylori</i> negative
973_7_Dou.v4	Female	31	1	Atrophic gastritis	<i>H. pylori</i> negative
97HK_9T.v4	Male	50	2	Atrophic gastritis	<i>H. pylori</i> negative
HK_1_Dou.v4	Male	62	3	Atrophic gastritis	<i>H. pylori</i> negative
HK_14_Di.v4	Male	66	3	Atrophic gastritis	<i>H. pylori</i> negative
HK_15_Dou.v4	Female	55	2	Atrophic gastritis	<i>H. pylori</i> negative
HK_15_T.v4	Female	55	2	Atrophic gastritis	<i>H. pylori</i> negative
HK_17_Dou.v4	Female	43	2	Atrophic gastritis	<i>H. pylori</i> negative
HK_17_T.v4	Female	43	2	Atrophic gastritis	<i>H. pylori</i> negative
HK_28Dou.v4	Male	60	3	Atrophic gastritis	<i>H. pylori</i> negative
HK_36_Di.v4	Female	49	2	Atrophic gastritis	<i>H. pylori</i> negative
HK_36_Dou.v4	Female	49	2	Atrophic gastritis	<i>H. pylori</i> negative
HK14Dou246.v4	Male	66	3	Atrophic gastritis	<i>H. pylori</i> negative
HK14T247.v4	Male	66	3	Atrophic gastritis	<i>H. pylori</i> negative
HK15DT248.v4	Female	55	2	Atrophic gastritis	<i>H. pylori</i> negative
YJ_Ca_10.v4	Male	72	3	Gastric cancer	<i>H. pylori</i> negative
YJ_CA_12.v4	Male	45	2	Gastric cancer	<i>H. pylori</i> negative
YJ_Ca_7.v4	Male	44	2	Gastric cancer	<i>H. pylori</i> negative
YJ_ca_8.v4	Male	75	3	Gastric cancer	<i>H. pylori</i> negative
YJ_Ca_9.v4	Male	60	3	Gastric cancer	<i>H. pylori</i> negative
YJ_Ca6.v4	Male	72	3	Gastric cancer	<i>H. pylori</i> negative
YJCall265.v4	Male	61	3	Gastric cancer	<i>H. pylori</i> negative
104HK_2FT.v4	Female	64	3	Intestinal metaplasia	<i>H. pylori</i> negative
HK_11_DI.v4	Female	32	1	Intestinal metaplasia	<i>H. pylori</i> negative
HK_11_T.v4	Female	32	1	Intestinal metaplasia	<i>H. pylori</i> negative
HK_16_Di.v4	Female	45	2	Intestinal metaplasia	<i>H. pylori</i> negative
HK_16_T.v4	Female	45	2	Intestinal metaplasia	<i>H. pylori</i> negative
HK_23_Di.v4	Female	41	2	Intestinal metaplasia	<i>H. pylori</i> negative
HK_23_Dou.v4	Female	41	2	Intestinal metaplasia	<i>H. pylori</i> negative
HK_24_Di.v4	Male	69	3	Intestinal metaplasia	<i>H. pylori</i> negative
HK_24_Dou.v4	Male	69	3	Intestinal metaplasia	<i>H. pylori</i> negative
HK_26T.v4	Female	53	2	Intestinal metaplasia	<i>H. pylori</i> negative
HK_30_T.v4	Female	57	2	Intestinal metaplasia	<i>H. pylori</i> negative
HK_32_Di.v4	Female	59	2	Intestinal metaplasia	<i>H. pylori</i> negative

HK_35_Di.v4	Male	56	2	Intestinal metaplasia	<i>H. pylori</i> negative
HK_35_Dou.v4	Male	56	2	Intestinal metaplasia	<i>H. pylori</i> negative
HK25Dou200.v4	Male	46	2	Intestinal metaplasia	<i>H. pylori</i> negative
HK25DT199.v4	Male	46	2	Intestinal metaplasia	<i>H. pylori</i> negative
HK25T198.v4	Male	46	2	Intestinal metaplasia	<i>H. pylori</i> negative
HK35T.v4	Male	56	2	Intestinal metaplasia	<i>H. pylori</i> negative
29HK_34T.v4	Female	53	2	Superficial gastritis	<i>H. pylori</i> negative
973_13_T.v4	Male	31	1	Superficial gastritis	<i>H. pylori</i> negative
973_18_Di.v4	Female	47	2	Superficial gastritis	<i>H. pylori</i> negative
973_21_Di.v4	Female	47	2	Superficial gastritis	<i>H. pylori</i> negative
973_21_T.v4	Female	47	2	Superficial gastritis	<i>H. pylori</i> negative
973_4_T.v4	Female	29	1	Superficial gastritis	<i>H. pylori</i> negative
HK_21DT202.v4	Male	64	3	Superficial gastritis	<i>H. pylori</i> negative
HK_22_T.v4	Male	59	2	Superficial gastritis	<i>H. pylori</i> negative
HK_34_Di.v4	Female	53	2	Superficial gastritis	<i>H. pylori</i> negative
HK_38_Di.v4	Male	58	2	Superficial gastritis	<i>H. pylori</i> negative
HK_38_Dou.v4	Male	58	2	Superficial gastritis	<i>H. pylori</i> negative
HK12T244.v4	Male	66	3	Superficial gastritis	<i>H. pylori</i> negative
973_15_Di.v4	Male	32	1	Atrophic gastritis	<i>H. pylori</i> positive
973_15_T.v4	Male	32	1	Atrophic gastritis	<i>H. pylori</i> positive
973_16_Di.v4	Male	52	2	Atrophic gastritis	<i>H. pylori</i> positive
973_16_Dou.v4	Male	52	2	Atrophic gastritis	<i>H. pylori</i> positive
973_16_T.v4	Male	52	2	Atrophic gastritis	<i>H. pylori</i> positive
973_19_Dou.v4	Male	62	3	Atrophic gastritis	<i>H. pylori</i> positive
973_19_T.v4	Male	62	3	Atrophic gastritis	<i>H. pylori</i> positive
973_5_Dou.v4	Male	43	2	Atrophic gastritis	<i>H. pylori</i> positive
973_5_T.v4	Male	43	2	Atrophic gastritis	<i>H. pylori</i> positive
973_6_Di.v4	Female	41	2	Atrophic gastritis	<i>H. pylori</i> positive
973_7_Di.v4	Female	31	1	Atrophic gastritis	<i>H. pylori</i> positive
973_7_T.v4	Female	31	1	Atrophic gastritis	<i>H. pylori</i> positive
973_9_DI.v4	Female	45	2	Atrophic gastritis	<i>H. pylori</i> positive
HK_1_T.v4	Male	62	3	Atrophic gastritis	<i>H. pylori</i> positive
HK_17_Di.v4	Female	43	2	Atrophic gastritis	<i>H. pylori</i> positive
HK_28_Di.v4	Male	60	3	Atrophic gastritis	<i>H. pylori</i> positive
HK_28_T.v4	Male	60	3	Atrophic gastritis	<i>H. pylori</i> positive
HK_33_Di.v4	Female	53	2	Atrophic gastritis	<i>H. pylori</i> positive
HK_33_Dou.v4	Female	53	2	Atrophic gastritis	<i>H. pylori</i> positive
HK_33_T.v4	Female	53	2	Atrophic gastritis	<i>H. pylori</i> positive
HK_4_Di.v4	Female	71	3	Atrophic gastritis	<i>H. pylori</i> positive
YJ_Ca_14.v4	Male	61	3	Gastric cancer	<i>H. pylori</i> positive
YJ_Ca_18.v4	Male	61	3	Gastric cancer	<i>H. pylori</i> positive
YJ_Ca_24.v4	Male	62	3	Gastric cancer	<i>H. pylori</i> positive
YJ_Ca_25.v4	Male	62	3	Gastric cancer	<i>H. pylori</i> positive

YJ_Ca2.v4	Male	57	2	Gastric cancer	<i>H. pylori</i> positive
YJ_Ca3.v4	Male	52	2	Gastric cancer	<i>H. pylori</i> positive
YJ_Ca4.v4	Male	63	3	Gastric cancer	<i>H. pylori</i> positive
HK_16_DOU.v4	Female	45	2	Intestinal metaplasia	<i>H. pylori</i> positive
HK_23_T.v4	Female	41	2	Intestinal metaplasia	<i>H. pylori</i> positive
HK_24_T.v4	Male	69	3	Intestinal metaplasia	<i>H. pylori</i> positive
HK_26_Di.v4	Female	53	2	Intestinal metaplasia	<i>H. pylori</i> positive
HK_26_Dou.v4	Female	53	2	Intestinal metaplasia	<i>H. pylori</i> positive
HK_3_T.v4	Male	64	3	Intestinal metaplasia	<i>H. pylori</i> positive
HK_30_Di.v4	Female	57	2	Intestinal metaplasia	<i>H. pylori</i> positive
HK_32_Dou.v4	Female	59	2	Intestinal metaplasia	<i>H. pylori</i> positive
HK_32_T.v4	Female	59	2	Intestinal metaplasia	<i>H. pylori</i> positive
HK_37_Di.v4	Male	48	2	Intestinal metaplasia	<i>H. pylori</i> positive
HK_37_Dou.v4	Male	48	2	Intestinal metaplasia	<i>H. pylori</i> positive
HK_37_T.v4	Male	48	2	Intestinal metaplasia	<i>H. pylori</i> positive
HK_6_Di.v4	Female	42		Intestinal metaplasia	<i>H. pylori</i> positive
HK_6_Dou.v4	Female	42	2	Intestinal metaplasia	<i>H. pylori</i> positive
HK_6_T.v4	Female	42	2	Intestinal metaplasia	<i>H. pylori</i> positive
HK_8_Di.v4	Female	60	3	Intestinal metaplasia	<i>H. pylori</i> positive
HK_8_Dou.v4	Female	60	3	Intestinal metaplasia	<i>H. pylori</i> positive
YJ_Ca_17.v4	Female	70	3	Intestinal metaplasia	<i>H. pylori</i> positive
973_4_Di.v4	Female	29	1	Superficial gastritis	<i>H. pylori</i> positive
973_13_Di.v4	Male	32	1	Superficial gastritis	<i>H. pylori</i> positive
973_18_Dou.v4	Female	47	2	Superficial gastritis	<i>H. pylori</i> positive
973_18_T.v4	Female	47	2	Superficial gastritis	<i>H. pylori</i> positive
973_21_Dou.v4	Female	47	2	Superficial gastritis	<i>H. pylori</i> positive
973_23T224.v4	Female	53	2	Superficial gastritis	<i>H. pylori</i> positive
HK_34_Dou.v4	Female	53	2	Superficial gastritis	<i>H. pylori</i> positive
HK_22_Di.v4	Male	59	2	Superficial gastritis	<i>H. pylori</i> positive
HK_22_Dou.v4	Male	59	2	Superficial gastritis	<i>H. pylori</i> positive
HK_21_Dou.v4	Male	64	3	Superficial gastritis	<i>H. pylori</i> positive
HK_21_T.v4	Male	64	3	Superficial gastritis	<i>H. pylori</i> positive
973_14_T.v4	Male	50	2	Superficial gastritis	<i>H. pylori</i> positive