

## Additional file 2

Table S1. Characteristics and alterations found in all the patients.

DIFFUSE GASTRIC CANCER CASES									
ID	Sex	Age	Hemotype	<i>H. pylori</i>	Family history	Variants	Geno-type	LOH	Methyl.
1D	M	68	A+	-	No	c.1138-75insA c.2076T>C c.48+6C>T	in/del C/C T/T	NA	NA
2D	M	57	A-	+	No	c.2076T>C	C/C	-	+
3D	M	38	NI	+	No	c.-197A>C / c.-73A>C c.48+6C>T c.2076T>C c.2164+17dupA c.*54C>A	A/C C/T T/C dupA/dupA C/A	-	+
4D	M	54	O+	+	No	c.48+6C>T c.1138-75insA c.2076T>C	C/T in/del C/C	-	+
5D	M	63	A+	+	No	c.-160C>A / c.-285C>A c.48+6C>T c.2076T>C	A/A T/T T/C	-	+
6D	F	86	A+	-	Yes (1st degree)	c.48+6C>T c.531+10G>C c.1138-75insA c.2076T>C c.2164+17dupA	C/T G/C in/del T/C dupA/dupA	-	+
7D	M	57	A-	-	No	c.-137C>A c.48+6C>T	C/A T/T	LOH +	+

						c.388-44G>A c.2076T>C c.2164+17dupA	G/A T/C dupA/dupA		
8D	M	70	B+	+	Yes (1st degree)	c.-176C>T c.48+6C>T c.1138-75insA c.1680G>A c.2076T>C c.2164+17dupA c.2253C>A c.*54C>A	C/T C/T ins/del G/A C/C del/dupA C/A C/A	LOH Border -line	-
9D	F	64	NI	-	No	c.48+6C>T c.1221insC c.2076T>C c.2164+17dupA	T/T ins/del T/C dupA/dupA	-	+
10D	M	74	B+	+	No	c.-160C>A / c.-285C>A c.48+6C>T c.2076T>C c.2164+17dupA c.48+6C>T	C/A C/T C/C dupA/dupA T/T	-	-
11D	F	53	A+	+	Yes (2nd degree)	c.2076T>C c.2164+17dupA c.2253C>A c.*54C>A	C/C del/dupA C/A C/A	-	-
12D	F	45	O+	-	No	c.-160C>A / c.-285C>A c.-197A>C / c.-73A>C c.48+6C>T c.1138-92delA	C/A A/C T/T ins/del	NA	-

						c.2076T>C	C/C		
						c.2164+17dupA	del/dupA		
						c.2253C>A	C/A		
						c.*54C>A	C/A		
						c.48+6C>T	T/T		
13D	F	53	O+	NA	Yes (2nd degree)	c.1138-92delA	ins/del	NA	NA
						c.2076T>C	C/C		
						c.2164+17dupA	dupA/dupA		
Total (n=13)	M: 61.5% F: 38.5%	60.75 (30-86)	A+: 36.4% A-: 18.2% B+: 18.2% O+: 27.2%	(+): 58.3% (-): 41.7%	1st d.: 15.4% 2nd d.: 15.4%			13.3%	63.6%

#### MIXED GASTRIC CANCER CASES

ID	Sex	Age	Hemotype	<i>H. pylori</i>	Family history	Variants	Genotype	Allelic Loss	Methyl.
1M	M	79	A+	+	Yes (1st degree)	c.48+6C>T c.2076T>C	T/T T/C	-	+
2M	M	72	O+	-	Yes (2nd degree)	c.48+6C>T c.1138-75insA c.2076T>C c.2164+17dupA	C/T in/del C/C dupA/dupA	-	+
3M	F	58	B+	+	Yes (1st degree)	c.48+6C>T c.1138-75insA c.1937-13T>C c.2076T>C c.2164+17dupA	C/T in/del T/C T/C dupA/dupA	-	+
4M	F	62	O+	-	Yes (1st degree)	c.48+6C>T c.2076T>C c.2439+52G>A	T/T C/C A/A	-	-
5M	M	NI	O+	+	NI	c.48+6C>T	C/T	NA	-

						c.-197A>C / c.-73A>C c.2076T>C c.2164+17dupA c.2253C>A c.*54C>A c.48+6C>T c.-160C>A / c.-285C>A c.1221insC c.1937-13T>C c.2076T>C c.2164+17dupA	A/C T/C del/dupA C/A C/A T/T C/A ins/del T/C T/C dupA/dupA			
6M	M	78	O+	NR	Yes (1st degree)	c.48+6C>T -160C>A / c.-285C>A c.1138-92delA c.1937-13T>C c.2076T>C	C/T C/A ins/del C/C C/C		NA	NA
7M	M	78	A+	-	No				-	+
Total (n=7)	M: 71.4% F: 28.6%	71.2 (58-79)	A+: 28.6% B+: 14.3% O+: 57.1%	(+) 50% (-) 50%	1st d.: 57.1% 2nd d.: 14.3%				0%	36.4%

LOH: loss of heterozygosity; NA: not analyzed;