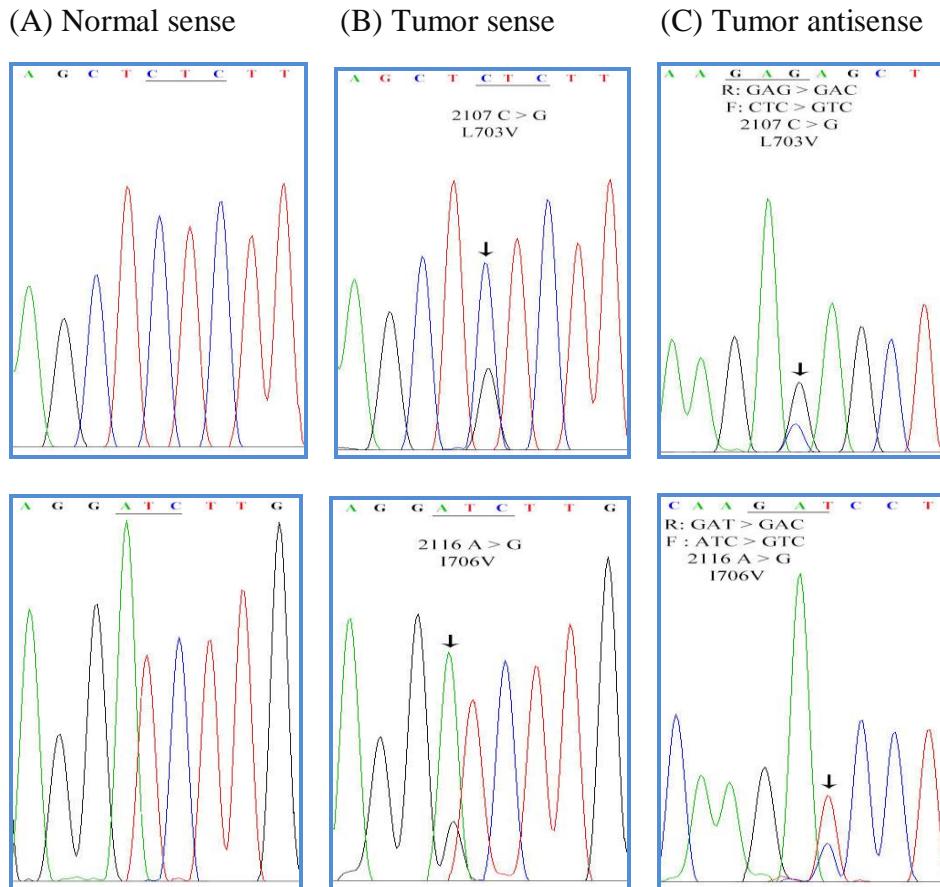


Erlotinib is effective in pancreatic cancer with epidermal growth factor receptor mutations: a randomized, open-label, prospective trial

Supplementary Material

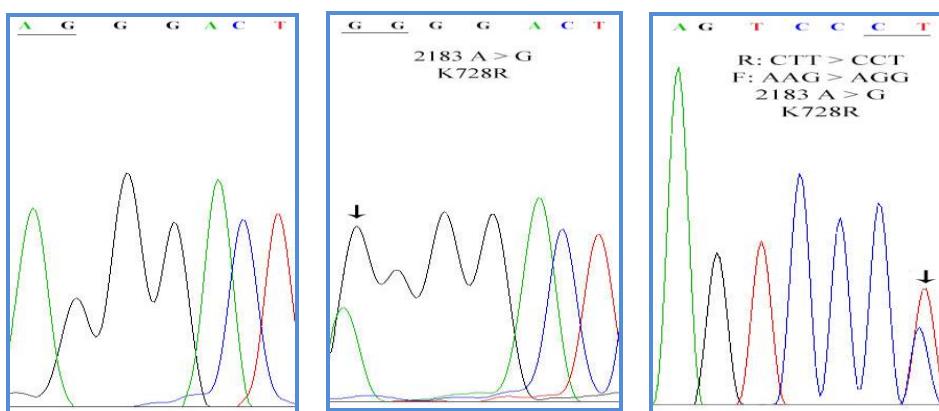
Supplementary Figure 1. DNA sequencing analysis of *EGFR* gene from exons 18 to 21.

Exon 18

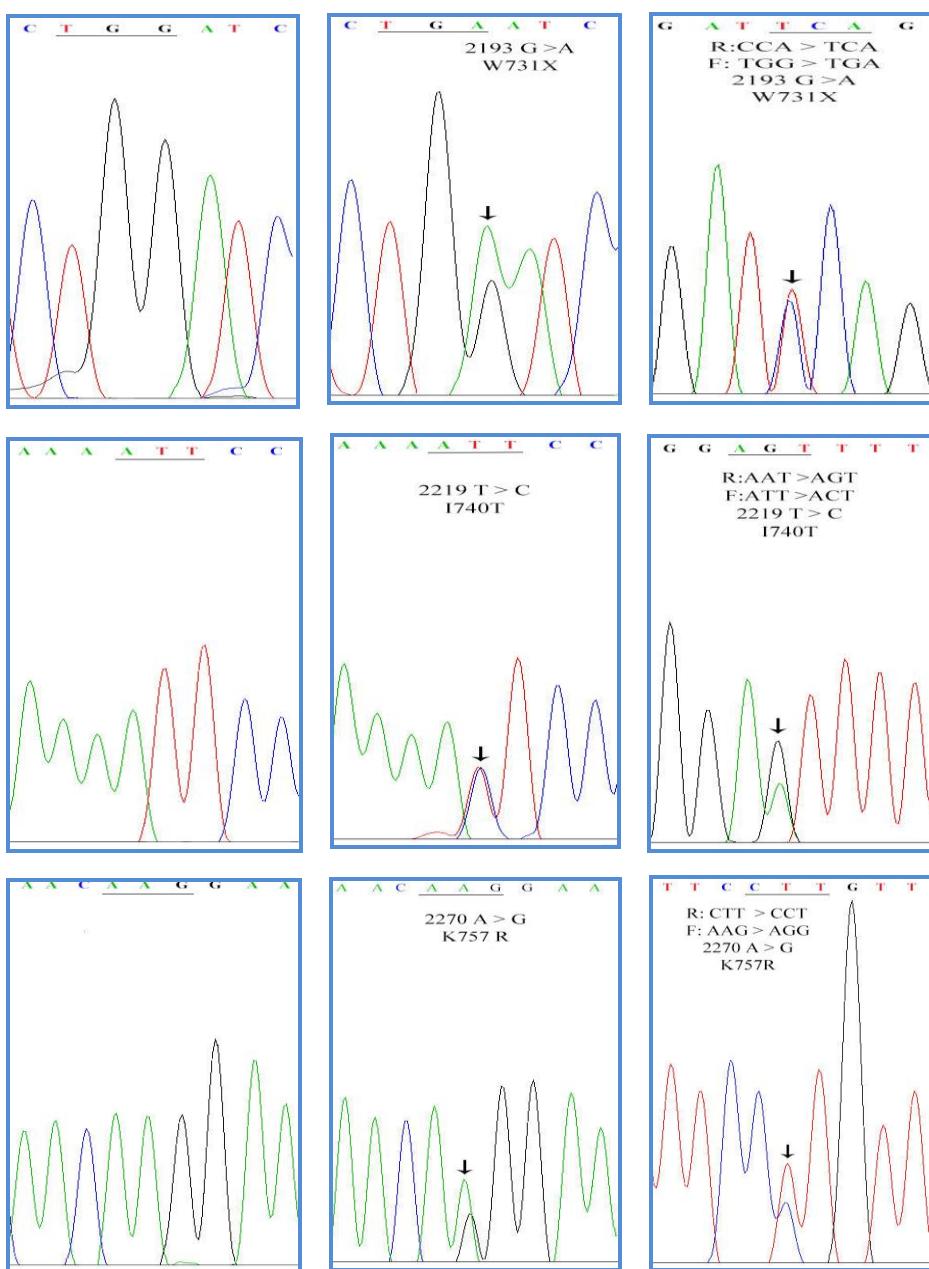


Exon 19

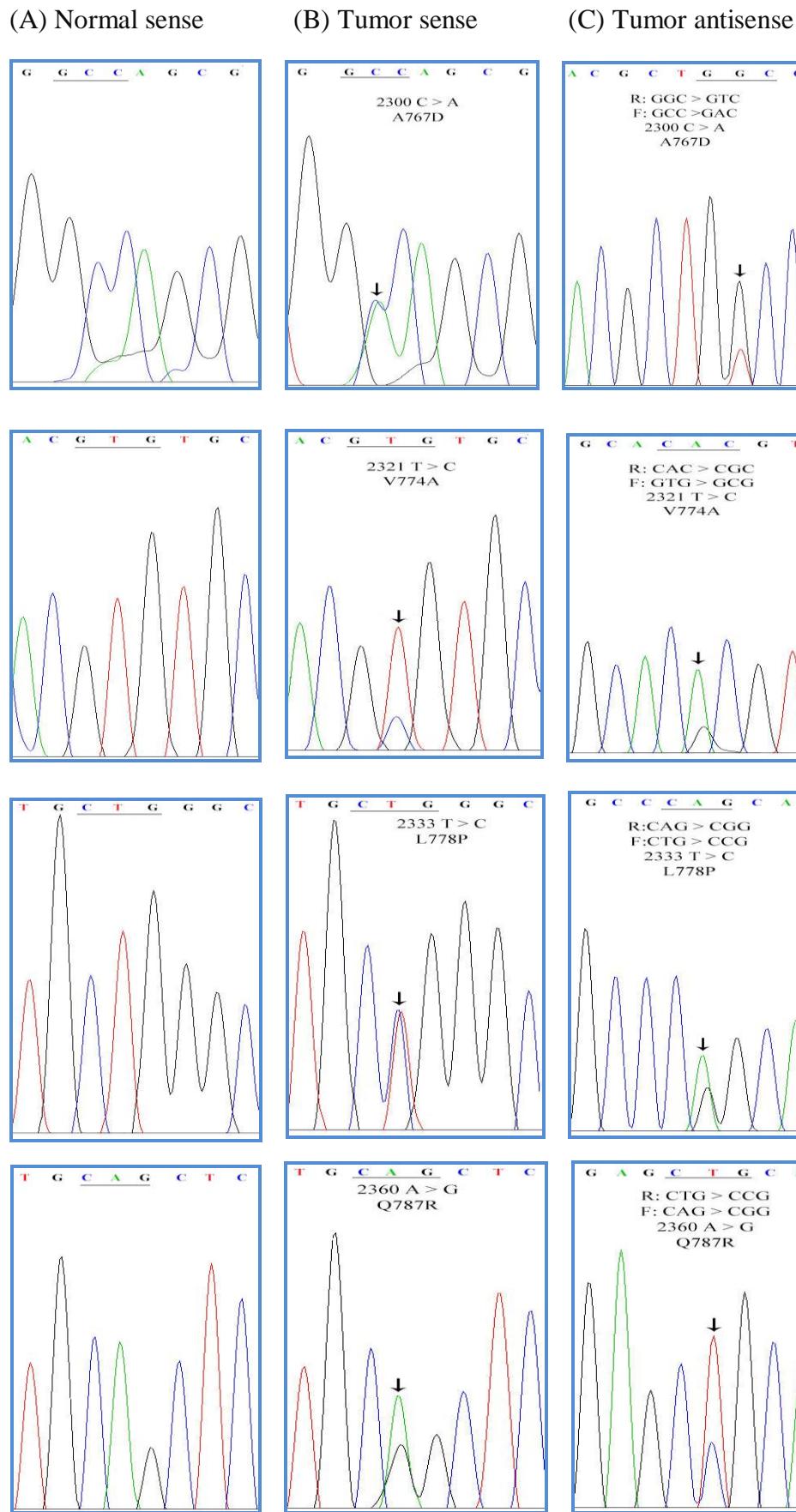


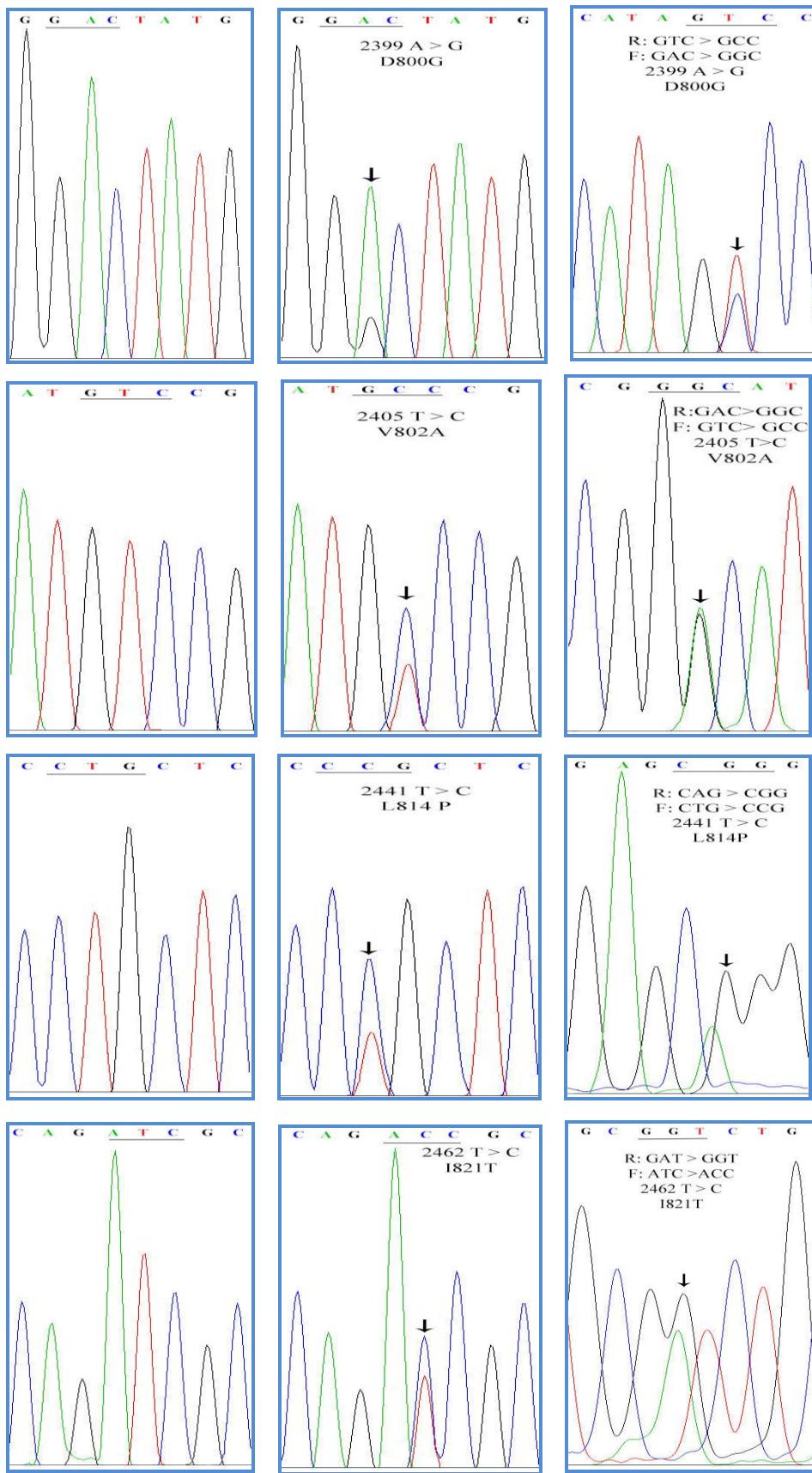


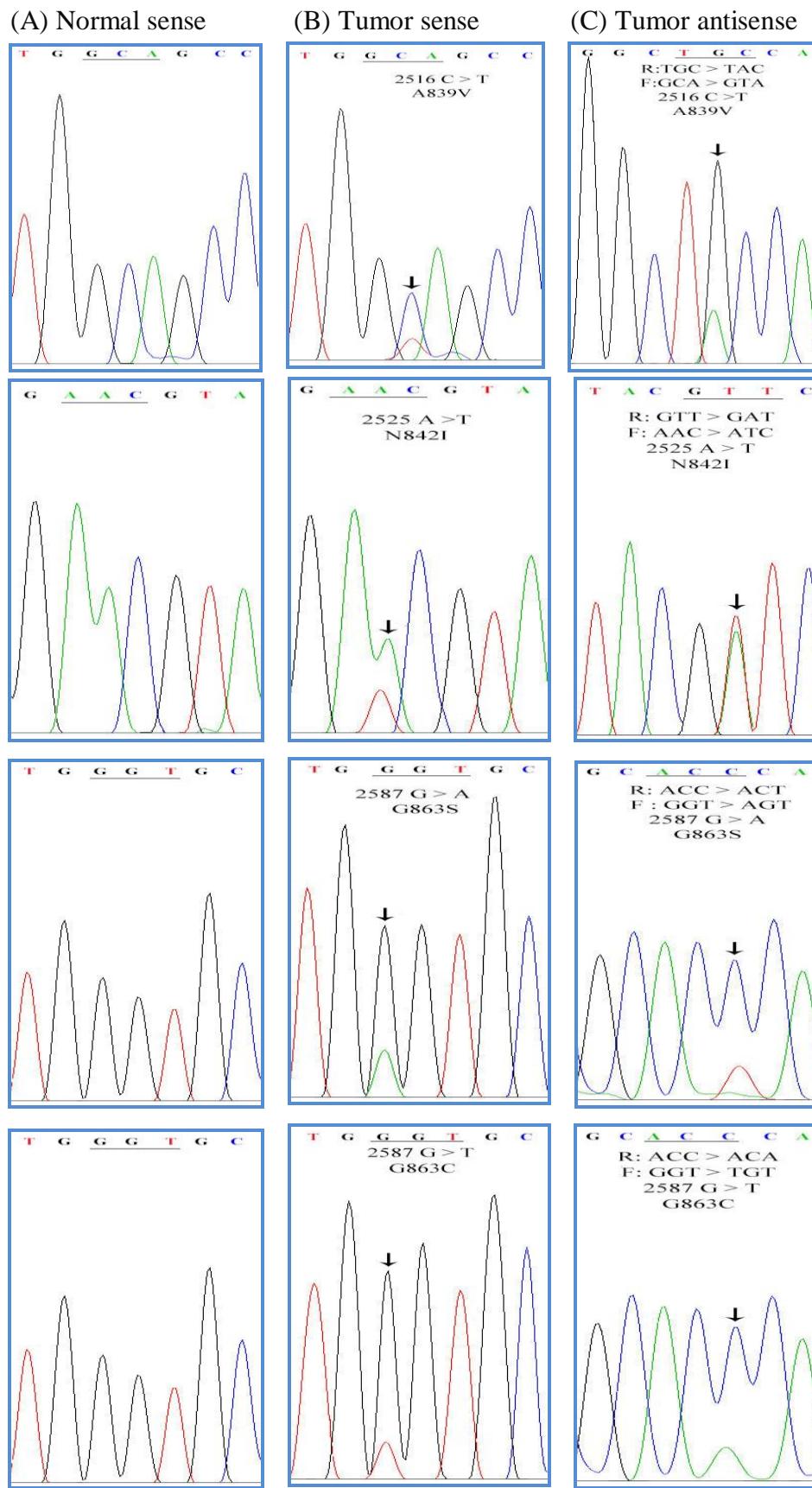
*The peak of 2182A was not shown due to its position at exon 18.

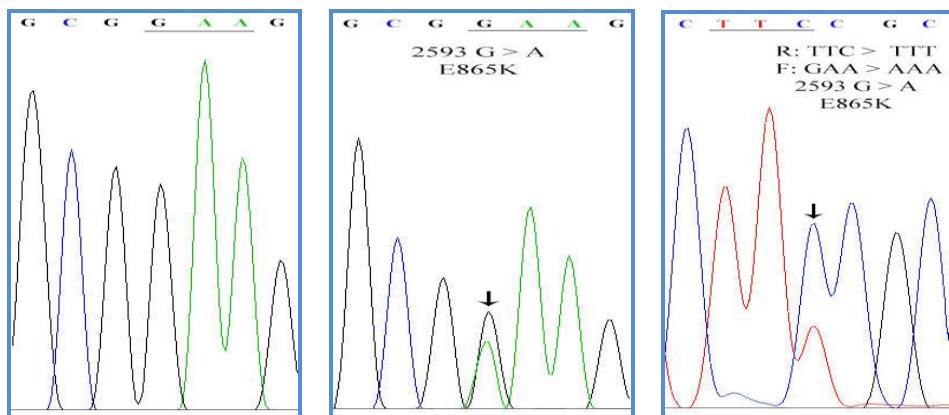


Exon 20









Arrows indicate nucleotide changes. F: forward direction. R: reverse direction.

Supplementary Table 1. Sequences of the primers used for polymerase chain reaction

Gene	Forward primer sequence	Reverse primer sequence
<i>EGFR</i> exon 18	GGCTGAGGTGACCCTTGTC	CTGCGGCCAGCCCAGAG
<i>EGFR</i> exon 19	AGCATGTGGCACCATCTCAC	GAGAAAAGGTGGGCCTGAGG
<i>EGFR</i> exon 20	ATGCGAAGCCACACTGACGT	TGGCTCCTTATCTCCCCCTCC
<i>EGFR</i> exon 21	ATCTGTCCCTCACAGCAGG	TCAGGAAAATGCTGGCTGA

Supplementary Table 2. Mutation pattern and treatment response in 49 pancreatic cancer patients with mutated *EGFR* genes

Mutations		No. (%)	Response rate (%)		Disease control rate (%)			
Nucleotide	Amino acid		G	G+E	G	G+E		
			n = 23	n = 26	P	n = 23	P	
Exon 18		2 (3%)						
2107C>G	L703V	1 (2%)	0/1 (0%)	-	1/1 (100%)	-		
2116A>G	I706V	1 (2%)	0/1 (0%)	-	0/1 (0%)	-		
Exon 19		23 (37%)						
2183A>G	K728R	12 (19%)	0/4 (0%)	1/8 (13%)	1.000	1/4 (25%)	7/8 (88%) 0.067	
2193G>A	W731X	8 (13%)	0/8 (0%)	1/1 (100%)	0.111	1/8 (13%)	1/1 (100%) 0.222	
2219T>C	I740T	2 (3%)	-	1/2 (50%)	-	2/2 (100%)		
2270A>G	K757R	1 (2%)	0/1 (0%)	-	1/1 (100%)	-		
Exon 20		31 (50%)						
2300C>A	A767D	1 (2%)	0/1 (0%)	-	0/1 (0%)	-		
2321T>C	V774A	1 (2%)	0/1 (0%)	-	0/1 (0%)	-	-	
2333T>C	L778P	15 (24%)	0/8 (0%)	1/7 (14%)	0.467	0/8 (0%)	5/7 (71%) 0.007	
2360A>G	Q787R	2 (3%)	-	0/2 (0%)	-	2/2 (100%)		
2399A>G	D800G	1 (2%)	-	0/1 (0%)	-	1/1 (100%)		
2405T>C	V802A	1 (2%)	-	0/1 (0%)	-	1/1 (100%)		
2441T>C	L814P	1 (2%)	-	0/1 (0%)	-	1/1 (100%)		
2462T>C	I821T	9 (15%)	1/4 (25%)	3/5 (60%)	0.524	3/4 (75%)	4/5 (80%) 1.000	
Exon 21		6 (10%)						
2516C>T	A839V	1 (2%)	-	1/1 (100%)	-	1/1 (100%)		
2524A>T	N842I	2 (3%)	0/1 (0%)	0/1 (0%)	1.000	0/1 (0%)	1/1 (100%) 1.000	
2587G>A	G863S	1 (2%)	0/1 (0%)	-	0/1 (0%)	-		
2587G>T	G863C	1 (2%)	-	0/1 (0%)	-	1/1 (100%)		
2593G>A	E865K	1 (2%)	-	0/1 (0%)	-	1/1 (100%)		
Total		62 (100%)						

Abbreviations: G, gemcitabine alone; G+E, gemcitabine plus erlotinib; X, stop codon.