

Supplementary data to:

OVEREXPRESSION OF miRNA-145 INDUCES APOPTOSIS AND PREVENTS PROLIFERATION AND MIGRATION OF MKN-45 GASTRIC CANCER CELLS

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Supplementary Table 2: Raw data of MTT assay analysis showing the capacity of cell proliferation of the miR-145-transfected cells in comparison with the control group

5000 cell/well	OD1	OD2	OD3
Control	1.49	1.30	1.72
miR-145	0.31	0.42	0.51

Note: Figure 3A was extracted from Supplementary Table 2.

Supplementary Table 3: Raw data showing investigated genes' expression after transfection of MKN-45 cells with the pCMV-miR-145 or their corresponding control group. The relative expression of each gene was analyzed by comparative threshold cycle (Ct). Ct value was normalized using the formula $\Delta Ct = Ct \text{ (investigated genes)} - Ct \text{ (}\beta\text{-actin)}$. Then formula $\Delta\Delta Ct = \Delta Ct \text{ (treated)} - \Delta Ct \text{ (control)}$ was used. Finally, the formula $2^{-\Delta\Delta Ct}$ was used for estimating relative expression of each gene.

Group	Ct values miR-103				Ct values miR-145				fold induction				
	R1	R2	R3	Mean	R1	R2	R3	Mean	R1	R2	R3	Mean	SD
MKN-45	20/81	21/08	20/54	20/81	34/37	33/91	34/83	34/37	1	1	1	1	0
Control	23/63	24/01	23/25	23/63	38/56	38/34	38/91	38/60333	0/885988	0/855663	0/871671	0/871108	0/01517
miR-145	25/72	26/02	25/42	25/72	24/78	24/31	25/12	24/73667	619/5012	632/1247	638/9725	630/1995	9/877368
	Ct values β -actin				Ct values K-Ras				fold induction				
	R1	R2	R3	Mean	R1	R2	R3	Mean	R1	R2	R3	Mean	SD
Control	26/58	26/25	26/91	26/58	20/73	21/05	20/41	20/73	1	1	1	1	0
miR-145	29/15	28/83	29/47	29/15	32/28	31/32	34/41	32/67	0/042831	0/071236	0/016256	0/043441	0/027495
	Ct values β -actin				Ct values Myc				fold induction				
	R1	R2	R3	Mean	R1	R2	R3	Mean	R1	R2	R3	Mean	SD
Control	26/58	27/12	26/04	26/58	37/87	38/13	37/61	37/87	1	1	1	1	0
miR-145	22/65	23/93	25/27	23/95	40/46	42/86	46/06	43/12667	0/04303	0/027687	0/023765	0/031494	0/010181
	Ct values β -actin				Ct values Caspase 3				fold induction				
	R1	R2	R3	Mean	R1	R2	R3	Mean	R1	R2	R3	Mean	SD
Control	26/58	27/14	26/02	26/58	33/59	33/99	33/19	33/59	1	1	1	1	0
miR-145	29/15	28/79	29/44	29/12667	30/48	29/91	31/01	30/46667	51/26847	53/07645	48/50293	50/94928	2/303407
	Ct values β -actin				Ct values Caspase 9				fold induction				
	R1	R2	R3	Mean	R1	R2	R3	Mean	R1	R2	R3	Mean	SD
Control	26/58	27/05	26/11	26/58	33/08	32/73	33/43	33/08	1	1	1	1	0
miR-145	29/15	28/81	29/49	29/15	29/19	28/82	30/06	29/35667	77/70847	85/62736	83/28588	82/20724	4/068145

Supplementary Table 3 (cont.)

Group	Ct values β -actin				Ct values Bax				fold induction				
	R1	R2	R3	Mean	R1	R2	R3	Mean	R1	R2	R3	Mean	SD
Control	26/58	26/92	26/24	26/58	37/69	38/04	37/34	37/69	1	1	1	1	0
miR-145	29/15	28/86	29/44	29/15	36/24	35/88	36/6	36/24	16/22335	17/14838	15/34823	16/23998	0/90019
Group	Ct values β -actin				Ct values Bcl2				fold induction				
	R1	R2	R3	Mean	R1	R2	R3	Mean	R1	R2	R3	Mean	SD
Control	28/19	28/76	28/62	28/52333	26/58	26/14	27/02	26/58	1	1	1	1	0
miR-145	28/53	28/26	28/8	28/53	32/45	31/89	32/81	32/38333	0/021642	0/013139	0/020475	0/018419	0/004609
Group	Ct values β -actin				Ct values MMP9				fold induction				
	R1	R2	R3	Mean	R1	R2	R3	Mean	R1	R2	R3	Mean	SD
Control	26/58	26/19	26/97	26/58	25/06	24/67	25/45	25/06	1	1	1	1	0
miR-145	29/15	28/91	29/39	29/15	34/21	33/79	34/63	34/21	0/010453	0/011842	0/009227	0/010507	0/001308

Note: Figures 2, 3B, 5B and 6B and C were extracted from Supplementary Table 3.