

Figure S1. (A) T790M-mutant analysis results are shown. (B) Primer sequences of GBP1, E-cadherin and GAPDH are presented. (C) TGM2 mRNA levels were determined in PC9 and PC9ER cells, or HCC827 and HCC827ER cells. (D) Correlation is displayed between high expression of GBP1 and tumor stage. (E) The inserted sequences of the lentivirus are displayed. ***P<0.001. TGM2, transglutaminase 2; GBP1, guanylate-binding protein-1.

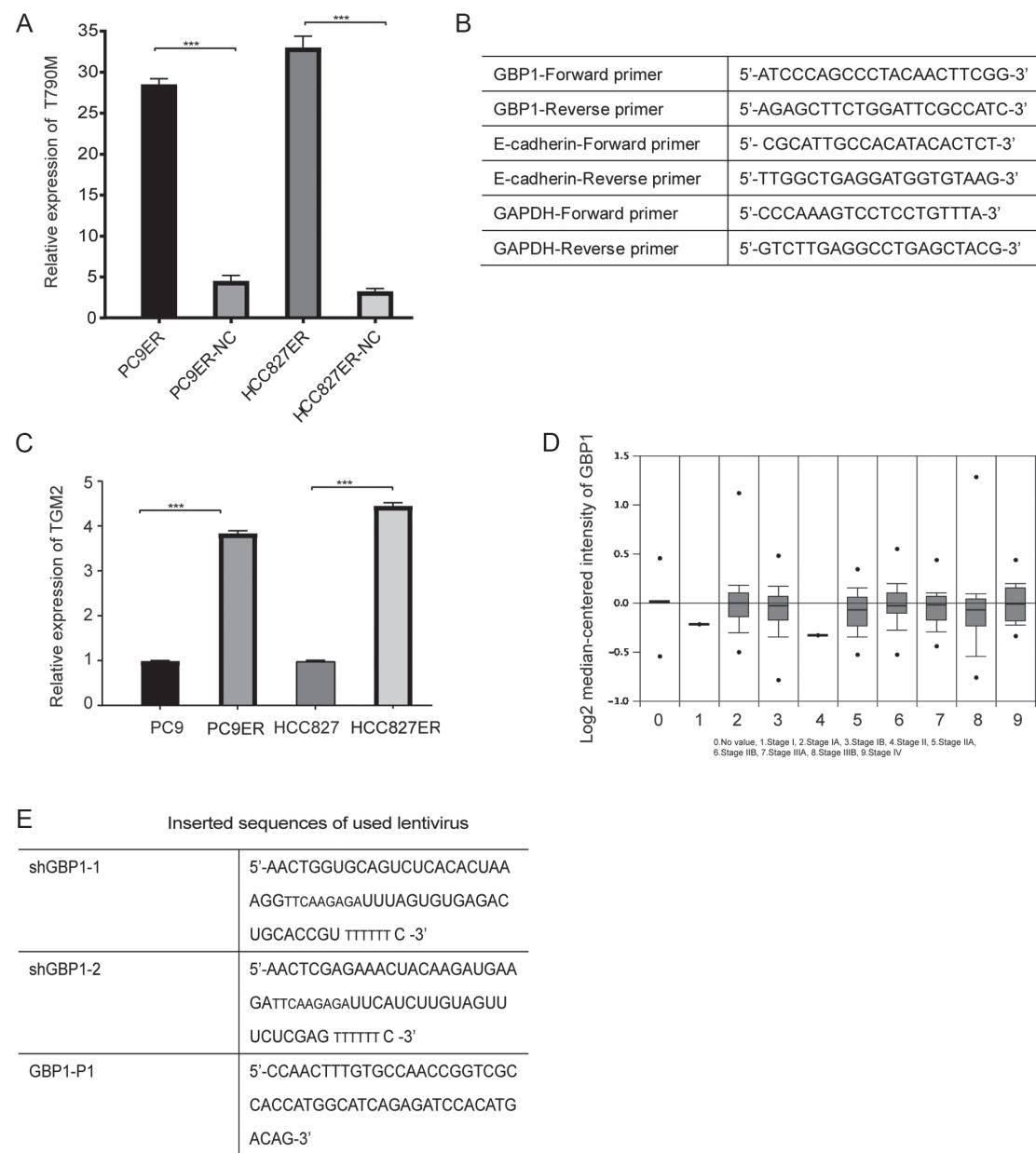


Table SI. Optical density values for the western blot (WB) analysis.

A, Optical density value of WB band in Twist and GBP1. ^aP<0.05.

Gene	PC9ER-NC	PC9ER-siPGK1	HCC827ER-NC	HCC827ER-siPGK1
Twist	0.851	0.331 ^a	0.566	0.094 ^a
Gene	PC9ER	PC9	HCC827ER	HCC827
GBP1	1.054	0.164 ^a	0.920	0.424 ^a

B, Optical density value of WB band in GBP1, cell cycle protein and apoptotic protein. ^aP<0.05.

Gene	PC9ER-NC	PC9ER-shGBP1-1	PC9ER-shGBP1-2	HCC827ER-NC	HCC827ER-shGBP1-1	HCC827ER-shGBP1-2
GBP1	1.806	0.893 ^a	0.499 ^a	0.934	0.489 ^a	0.178 ^a
P21	0.285	0.654 ^a	1.330 ^a	0.532	0.436 ^a	1.903 ^a
Cyclin D1	0.982	0.404 ^a	0.487 ^a	0.744	0.673 ^a	0.357 ^a
CDK4	1.228	0.417 ^a	0.557 ^a	0.845	0.308 ^a	0.306 ^a
CDK6	1.464	0.472 ^a	0.923 ^a	0.922	0.257 ^a	0.166 ^a
Bax	0.461	0.722 ^a	0.732 ^a	0.244	0.712 ^a	0.737 ^a
Bcl-2	0.566	0.164 ^a	0.178 ^a	0.456	0.138 ^a	0.117 ^a
Cleaved PARP1	0.245	0.534 ^a	0.555 ^a	0.255	0.589 ^a	0.602 ^a

C, Optical density value of WB band in GBP1, cell cycle protein and apoptotic protein. ^aP<0.05.

Gene	PC9-NC	PC9-GBP1	HCC827-NC	HCC827-GBP1
GBP1	0.473	1.560 ^a	0.192	0.798 ^a
P21	0.939	0.388 ^a	1.105	0.542 ^a
Cyclin D1	0.301	0.588 ^a	0.311	0.686 ^a
CDK4	0.574	0.885 ^a	0.345	0.714 ^a
CDK6	0.293	0.513 ^a	0.315	0.537 ^a
Bax	0.791	0.350 ^a	1.029	0.301 ^a
Bcl-2	0.110	0.556 ^a	0.144	0.463 ^a
Cleaved PARP1	0.345	0.110 ^a	1.134	0.226 ^a

D, Optical density value of WB band in EMT protein. ^aP<0.05.

Gene	NC	shGBP1	PGK1
E-cadherin (PC9ER)	0.643	2.627 ^a	1.392 ^a
N-cadherin (PC9ER)	2.387	0.917 ^a	1.466 ^a
Vimentin (PC9ER)	2.151	0.548 ^a	1.324 ^a
E-cadherin (HCC827ER)	0.230	1.022 ^a	0.708 ^a
N-cadherin (HCC827ER)	0.997	0.167 ^a	0.426 ^a
Vimentin (HCC827ER)	1.119	0.329 ^a	0.695 ^a

E, Optical density value of WB band in EMT protein. ^aP<0.05.

Gene	NC	GBP1	siPGK1
E-cadherin (PC9)	1.055	0.554 ^a	0.854 ^a
N-cadherin (PC9)	0.205	0.855 ^a	0.434 ^a
Vimentin (PC9)	0.303	0.955 ^a	0.584 ^a
E-cadherin (HCC827)	0.899	0.422 ^a	0.636 ^a
N-cadherin (HCC827)	0.621	0.226 ^a	1.237 ^a
Vimentin (HCC827)	0.221	1.146 ^a	0.551 ^a

Table SII. Immunostaining scores.

A, Immunostaining score of the EMT proteins. ^aP<0.01.

	Immunostaining score			
	PGK1	E-cadherin	N-cadherin	Vimentin
PC9-GBP1+erlotinib	1	0	3	3
PC9-NC+erlotinib	0 ^a	2 ^a	2 ^a	2 ^a

B, Immunostaining score of the apoptotic proteins. ^aP<0.01.

	Immunostaining score		
	Bax	Bcl-2	Cleaved PARP1
PC9-GBP1+erlotinib	0	1	1
PC9-NC+erlotinib	1 ^a	0 ^a	2 ^a

EMT, epithelial-mesenchymal transition; GBP1, guanylate-binding protein-1; PGK1, phosphoglycerate kinase 1; PARP1, Poly(ADP-ribose) polymerase 1.