

Suppression of esophageal squamous cell carcinoma development by mechanosensitive protein Piezo1 downregulation

Lu Gao¹, Yun Ji¹, Lulu Wang¹, Meixia He¹, Xiaojing Yang¹, Yibing Qiu¹, Xu Sun², Zhenyu Ji¹, Guanrui Yang¹, Jianying Zhang¹, Shanshan Li³, Liping Dai^{1*}, Liguozhang^{1*}

¹ BGI College & Henan Institute of Medical and Pharmaceutical Sciences, Zhengzhou University, Zhengzhou 450052, China

² Integrated TCM and Western Medicine Department, Affiliated Cancer Hospital of Zhengzhou University, Zhengzhou 450008, China

³ Pathology Department, First Affiliated Hospital of Zhengzhou University, Zhengzhou University, Zhengzhou 450052, China

* Corresponding author: Liguozhang

E-mail: lgzhang@zzu.edu.cn

Postal address: Henan Institute of Medical and Pharmaceutical Science, Zhengzhou University, No. 40 Daxue Road, Zhengzhou 450052, China

Tel: 086-17839908382

* Corresponding author: Liping Dai

E-mail: lpd@zzu.edu.cn

Postal address: Henan Institute of Medical and Pharmaceutical Science, Zhengzhou University, No. 40 Daxue Road, Zhengzhou 450052, China

Tel: 086-15290808333

Table S1. Genetic sequences

Gene	Sense	Antisense
Bax	CCCGAGAGGTCTTTTCCG	TGAGCACCAGTTTGCTGGC
Caspase3	TGGTTCATCCAGTCGCTTTG	TTCTGTTGCCACCTTTCGG
GAPDH	GAACGGGAAGCTCACTGG	GCCTGCTTCACCACCTTCT
p53	GTTGGTCGGTGGGTGGTAGT	GGGATGGGGTGAGATTCCTT
Piezo1	GCGACACATAGGGGTCACAA	CAGACAGAGGAGACCACCAAGAT

Table S2. Antibodies used in the experiment with dilution ratios

Protein	Dilution ratio
Bax (CST, USA)	1:1000
Caspase3 (CST,USA)	1:1000
Cleaved-caspase3 (CST,USA)	1:1000
GAPDH (CST,USA)	1:1000
p53 (CST,USA)	1:1000
Piezo1 (Abcam,USA)	1:500
E-cadherin (CST,USA)	1:1000
N-cadherin (CST,USA)	1:1000
Vinculin (CST,USA)	1:1000
