**Comprehensive Analysis of PSMG3 in Pan-Cancer and Validation of Its Role in Hepatocellular Carcinoma**

**MENGLI ZHENG 1, XIAOCHUN CHEN 1, ZHE XU 1, ZHITAO YE 2, LIXIAN ZHONG 1, ZHICAO CHEN 1, GUIQUAN CHEN 1\* and BOYONG CAI 1\***

1 Department of Gastroenterology, the Tenth Affiliated Hospital of Southern Medical University (Dongguan People's Hospital), Southern Medical University, Dongguan, China.

2 Department of Nephrology, Guangzhou Women and Children's Medical Center, Guangzhou Medical University, Guangzhou, China.

**\* Correspondence:**

Boyong Cai; No. 78, Wan Road, Xinguchong, Wanjiang Street, Dongguan, Department of Gastroenterology, the Tenth Affiliated Hospital of Southern Medical University (Dongguan People's Hospital), Southern Medical University, 523059. Tel: +86 18819253917, e-mail: [caiby5@mail2.sysu.edu.cn](mailto:caiby5@mail2.sysu.edu.cn)

Guiquan Chen, No. 78, Wan Road, Xinguchong, Wanjiang Street, Dongguan, Department of Gastroenterology, the Tenth Affiliated Hospital of Southern Medical University (Dongguan People's Hospital), Southern Medical University, 523059. Tel: +86 13826941078, e-mail: [chen\_gui\_quan@126.com](mailto:chen_gui_quan@126.com)

**Table S1** Sequence of shRNA targeting PSMG3

| sh-PSMG3 |  | Sequences (5'→3') |
| --- | --- | --- |
| shRNA1 | Top strand  Bottom strand | GATCCGAAGACACGCCGTTGGTGATATCGAATTCAAGAGATTCGATATCACCAACGGCGTGTCTTTTTTTTG  AATTCAAAAAAAAGACACGCCGTTGGTGATATCGAATCTCTTGAATTCGATATCACCAACGGCGTGTCTTCG |
| shRNA2 | Top strand  Bottom strand | GATCCGCGCCGTTGGTGATATCGAAGCAGAATTCAAGAGATTCTGCTTCGATATCACCAACGGCGTTTTTTG  AATTCAAAAAACGCCGTTGGTGATATCGAAGCAGAATCTCTTGAATTCTGCTTCGATATCACCAACGGCGCG |
| shRNA3 | Top strand  Bottom strand | GATCCGCCGTTGGTGATATCGAAGCAGAAGATTCAAGAGATCTTCTGCTTCGATATCACCAACGGTTTTTTG  AATTCAAAAAACCGTTGGTGATATCGAAGCAGAAGATCTCTTGAATCTTCTGCTTCGATATCACCAACGGCG |

PSMG3, Proteasome assembly chaperone 3