## **Accepted Manuscript**

The developmental transcription factor *IRF6* attenuates *ABCG2* gene expression and distinctively reverses stemness phenotype in nasoparyngeal carcinoma

Liang Xu, Tie-Jun Huang, Hao Hu, Meng-Yao Wang, Si-Mei Shi, Qin Yang, Fen Lin, Yuan-Yuan Qiang, Yan Mei, Yan-Hong Lang, Chang-Zhi Li, Li-Xia Peng, Li-Sheng Zheng, Jia-Ling Huang, Xin-Jian Li, Shi-Jun Zhang, Chao-Nan Qian, Bi-Jun Huang

PII: S0304-3835(17)30651-1

DOI: 10.1016/j.canlet.2017.10.016

Reference: CAN 13559

To appear in: Cancer Letters

Received Date: 8 June 2017

Revised Date: 24 September 2017

Accepted Date: 12 October 2017

Please cite this article as: L. Xu, T.-J. Huang, H. Hu, M.-Y. Wang, S.-M. Shi, Q. Yang, F. Lin, Y.-Y. Qiang, Y. Mei, Y.-H. Lang, C.-Z. Li, L.-X. Peng, L.-S. Zheng, J.-L. Huang, X.-J. Li, S.-J. Zhang, C.-N. Qian, B.-J. Huang, The developmental transcription factor *IRF6* attenuates *ABCG2* gene expression and distinctively reverses stemness phenotype in nasoparyngeal carcinoma, *Cancer Letters* (2017), doi: 10.1016/j.canlet.2017.10.016.

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distinctively 2 expression and reverses stemness phenotype 3 nasoparyngeal carcinoma 4 Liang Xu<sup>a</sup>, Tie-Jun Huang<sup>b</sup>, Hao Hu<sup>c</sup>, Meng-Yao Wang<sup>d</sup>, Si-Mei Shi<sup>e</sup>, Qin Yang<sup>a</sup>, Fen Lin<sup>a</sup>, Yuan-Yuan 5 6 Qiang<sup>a</sup>, Yan Mei<sup>a</sup>, Yan-Hong Lang<sup>a</sup>, Chang-Zhi Li<sup>a</sup>, Li-Xia Peng<sup>a</sup>, Li-Sheng Zheng<sup>a</sup>, Jia-Ling Huang<sup>f</sup>, 7 Xin-Jian Li<sup>g</sup>, Shi-Jun Zhang<sup>c</sup>, Chao-Nan Qian<sup>a,h\*</sup>, Bi-Jun Huang<sup>a\*</sup> 8 9 <sup>a</sup> Department of Experimental Research, State Key Laboratory of Oncology in South China, Collaborative 10 Innovation Center for Cancer Medicine, Sun Yat-Sen University Cancer Center, Guangzhou, China <sup>b</sup>Department of Nuclear Medicine, The Second People's Hospital of Shenzhen, Shenzhen, China; 11 12 <sup>c</sup>Department of Traditional Chinese Medicine, the First Affiliated Hospital of Sun Yat-Sen University, 13 Guangzhou, China; 14 <sup>d</sup>Radiotherapy Department, Affiliated Cancer Hospital of Guangzhou Medical University, Guangzhou, 15 China. 16 <sup>e</sup>Department of Medical Oncology, Sun Yat-Sen University Cancer Center, Guangzhou, China; <sup>f</sup>Department of Pathology, Saint Barnabas Medical Center, Livingston, NJ, USA; 17 18 <sup>9</sup>Department of Neuro-Oncology, The University of Texas MD Anderson Cancer Center, TX, USA; 19 <sup>h</sup>Department of Nasopharyngeal Carcinoma, Sun Yat-Sen University Cancer Center, Guangzhou, China; 20 21 \*Corresponding author: C-N Qian or B-J Huang, Department of Experimental Research, State Key 22 Laboratory of Oncology in South China, Sun Yat-Sen University Cancer Center, 651 Dongfeng East 23 Road, Guangzhou 510060, Guangdong, China. 24 E-mail: qianchn@sysucc.org.cn or huangbj@sysucc.org.cn 25 26 Running title: IRF6 attenuates ABCG2 and reverses stemness phenotype in NPC 27 28 29 30 31 32 33 34 35 36 37

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