

PER2 expression and cellular localization play a critical role in tumor aggressiveness and drug resistance in an *in vitro* model of hepatocellular carcinoma

Mariarosaria Negri^{1,2, #}, Feliciana Amatrudo^{1,2, #}, Donatella Paola Provisiero², Roberta Patalano², Giovanna Trinchese³, Fabiano Cimmino³, Cristina de Angelis², Chiara Simeoli², Renata Simona Auriemma², Maria Pina Mollica³, Annamaria Colao^{2,4}, Rosario Pivonello^{2,4}, Claudia Pivonello⁵

¹Department of Wellness, Nutrition and Sport, Pegaso Telematic University, Naples 80143, Italy.

²Department of Clinical Medicine and Surgery, Section of Endocrinology, Diabetology, Andrology and Nutrition, Federico II University, Naples 80131, Italy.

³Department of Biology, Federico II University, Naples 80126, Italy.

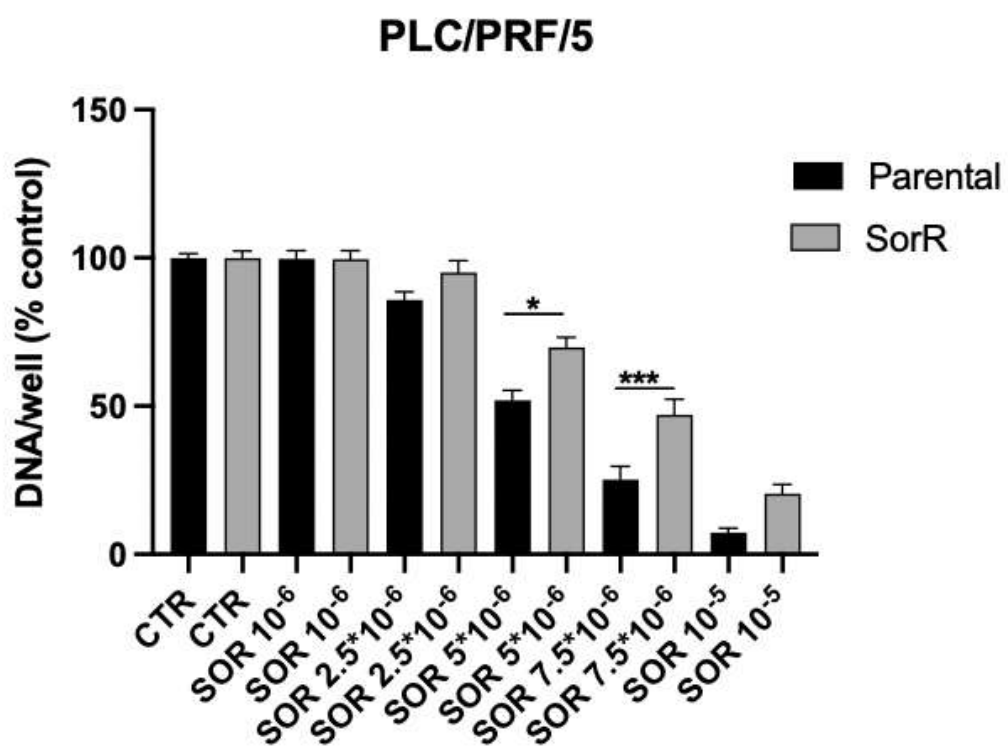
⁴UNESCO Chair for Health Education and Sustainable Development, Federico II University, Naples 80131, Italy.

⁵Department of Public Health, Federico II University, Naples 80131, Italy.

[#]These authors have contributed equally to this work.

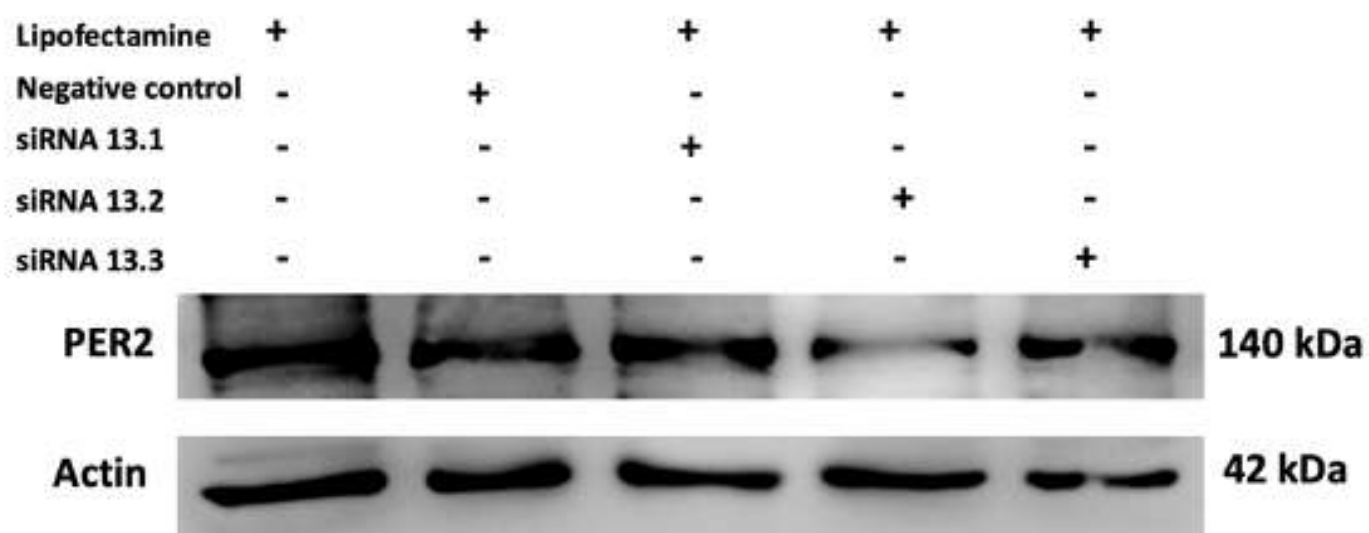
Correspondence to: Prof. Claudia Pivonello, Department of Public Health, Federico II University, Via Sergio Pansini, 5, Naples 80131, Italy, E-mail: claudia.pivonello@unina.it

ORCID: Claudia Pivonello (0000-0003-4276-8600)



Supplementary Figure 1

PLC/PRF/5 parental



Supplementary Figure 2