

Accepted Manuscript

Dual Role of the Anaphase Promoting Complex/Cyclosome in Regulating Stemness and Differentiation in Human Primary Keratinocytes

Ling Shih Quek, Nicolas Grasset, Joanita Binte Jasmen, Kim S. Robinson, Sophie Bellanger

PII: S0022-202X(18)30214-8

DOI: [10.1016/j.jid.2018.02.033](https://doi.org/10.1016/j.jid.2018.02.033)

Reference: JID 1323

To appear in: *The Journal of Investigative Dermatology*

Received Date: 8 August 2017

Revised Date: 30 January 2018

Accepted Date: 18 February 2018

Please cite this article as: Quek LS, Grasset N, Jasmen JB, Robinson KS, Bellanger S, Dual Role of the Anaphase Promoting Complex/Cyclosome in Regulating Stemness and Differentiation in Human Primary Keratinocytes, *The Journal of Investigative Dermatology* (2018), doi: 10.1016/j.jid.2018.02.033.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



Dual Role of the Anaphase Promoting Complex/Cyclosome in Regulating Stemness and Differentiation in Human Primary Keratinocytes

Ling Shih Quek¹, Nicolas Grasset², Joanita Binte Jasmen¹, Kim S Robinson² and Sophie Bellanger^{1,3}

¹Cell cycle control in skin epidermis, Institute of Medical Biology, A*STAR, 8A Biomedical Grove, Singapore 138648

²Epithelial biology, Institute of Medical Biology, A*STAR, 8A Biomedical Grove, Singapore 138648

³School of Biological Sciences, Nanyang Technological University, 60 Nanyang Drive, Singapore 637551

Correspondence: Sophie Bellanger, Cell cycle control in skin epidermis, Institute of Medical Biology, A*STAR, 8A Biomedical Grove, Singapore 138648. E-mail: sophie.bellanger@imb.a-star.edu.sg

Short title: APC/C and epidermal stem cell differentiation

Abbreviation list

APC/C: Anaphase Promoting Complex/Cyclosome

HPKs: Human Primary Keratinocytes

SAC: Spindle Assembly Checkpoint

K1: Keratin 1

K10: Keratin 10

K13: Keratin 13

Inv: Involucrin

Flg: Filaggrin

NT: Non-Treated

siRNA: Small Interference RNA

FCS: Foetal Calf Serum

BS: Bovine Serum

qRT-PCR: Quantitative Real-Time-PCR

PBS: Phosphate Buffered Saline

SEM: Standard Error of the Mean

Download English Version:

<https://daneshyari.com/en/article/8715818>

Download Persian Version:

<https://daneshyari.com/article/8715818>

[Daneshyari.com](https://daneshyari.com)