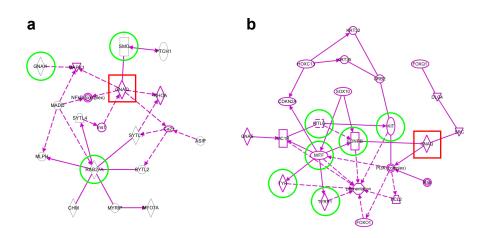
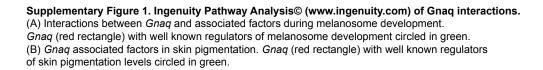
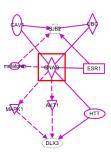
Supplementary Figure 1. Ingenuity Pathway Analysis© (www.ingenuity.com) of *Gnaq*interactions. (A) Interactions between *Gnaq* and associated factors during melanosome
development. *Gnaq* (red rectangle) with well known regulators of melanosome development
circled in green. (B) *Gnaq* associated factors in skin pigmentation. *Gnaq* (red rectangle) with
well known regulators of skin pigmentation levels circled in green.
Supplementary Figure 2. Ingenuity Pathway Analysis© (www.ingenuity.com) of *Gnaq*

- 7 interactions during epithelial barrier formation. *Gnaq* is highlighted by the red rectangle
- 8

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Supplementary Figure 2. Ingenuity Pathway Analysis© (www.ingenuity.com) of *Gnaq* interactions during epithelial barrier formation. *Gnaq* is highlighted by the red rectangle.