Supporting Information for:

Comprehensive Proteomic Analysis of PGC7-Interacting Proteins

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Table S5: Detailed peptide data for PGC7 interacting proteins identified by LC-MSMS (Provided as separate file).

Supplemental Data

Supplemental Data S1: The result files of protein identification using Mascot software. (Provided as separate Zip file)

Figure S1

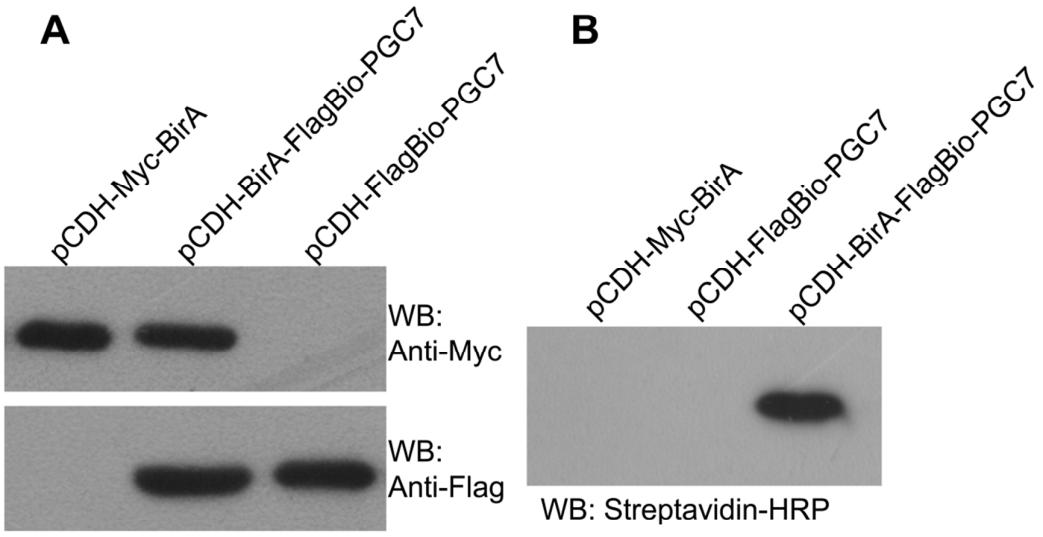

Figure S1 Validation of biotinylation of PGC7 by transient transfection

(A) Validation of BirA and FlagBio-PGC7 expression by western blotting. HEK293T cells were transfected with pCDH-Myc-BirA, pCDH-FlagBio-PGC7 and pCDH-BirA-FlagBio-PGC7 for 48 h, and then the whole cell lysates were assayed by western blotting for detection of Myc-tagged BirA and FlagBio-tagged PGC7.

(B) Validation of biotinylated PGC7 by western blotting. HEK293T cells were transfected with pCDH-Myc-BirA, pCDH-FlagBio-PGC7 and pCDH-BirA-FlagBio-PGC7 for 48 h, and then the streptavidin-HRP was used to detect biotinylated protein by western blotting.

Figure S2

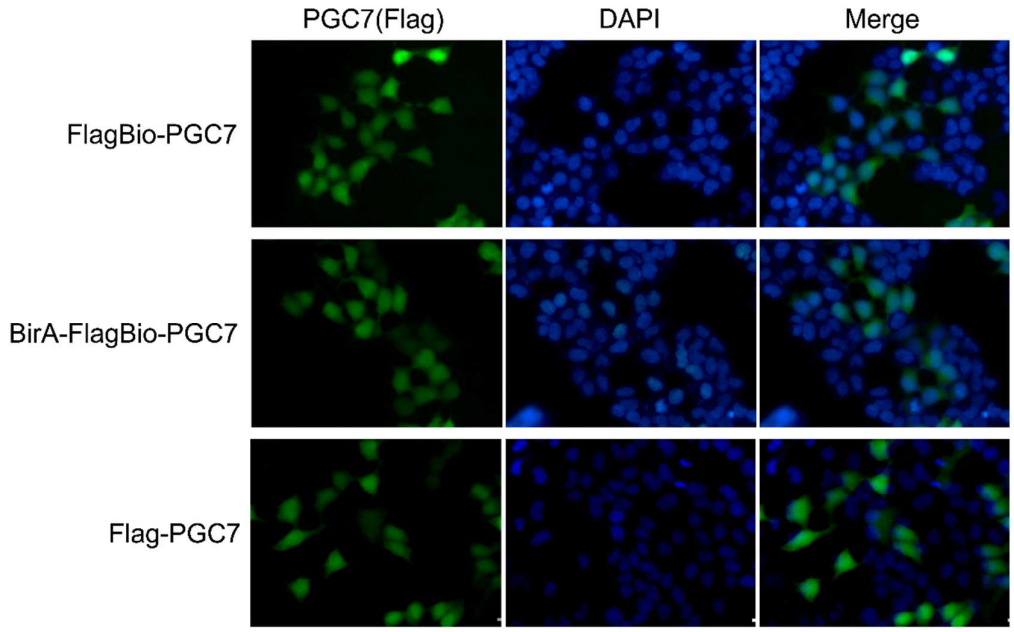

Figure S2 Detection of cellular localization of tagged PGC7.

HEK293T cells were transfected with pCDH-FlagBio-PGC7, pCDH-BirA-FlagBio-PGC7 and pCDH-Flag-PGC7 for 48 h, and then analyzed by immunofluorescence using antibodies against Flag. The nuclei were stained with DAPI. There is no change between nonbiotinylated (FlagBio-PGC7) and biotinylated PGC7 (BirA+ FlagBio-PGC7) protein in cellular distribution. There is also no change between PGC7 protein with (FlagBio-PGC7) and without (Flag-PGC7) Bio-tag.

Figure S3

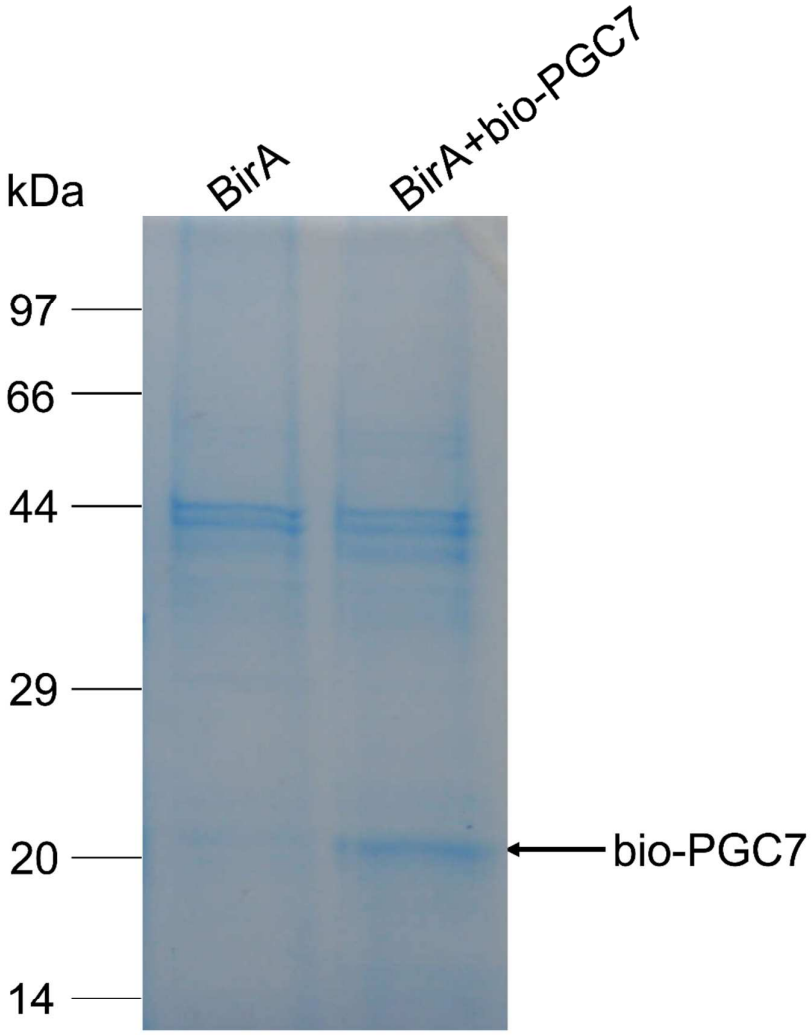

Figure S3 Separation of PGC7 interacting proteins in 293T cells by SDS-PAGE. The gel was stained with Coomassie blue, and bands were excised and subjected to LC–MS/MS analysis. The "BirA + bio-PGC7" gel lane was used for the identification of PGC7-interacting proteins. The "BirA" gel lane served as control for background signals.