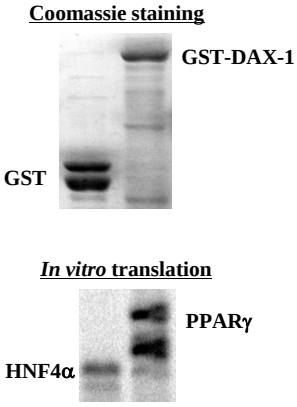
Supplemental Figure Legends

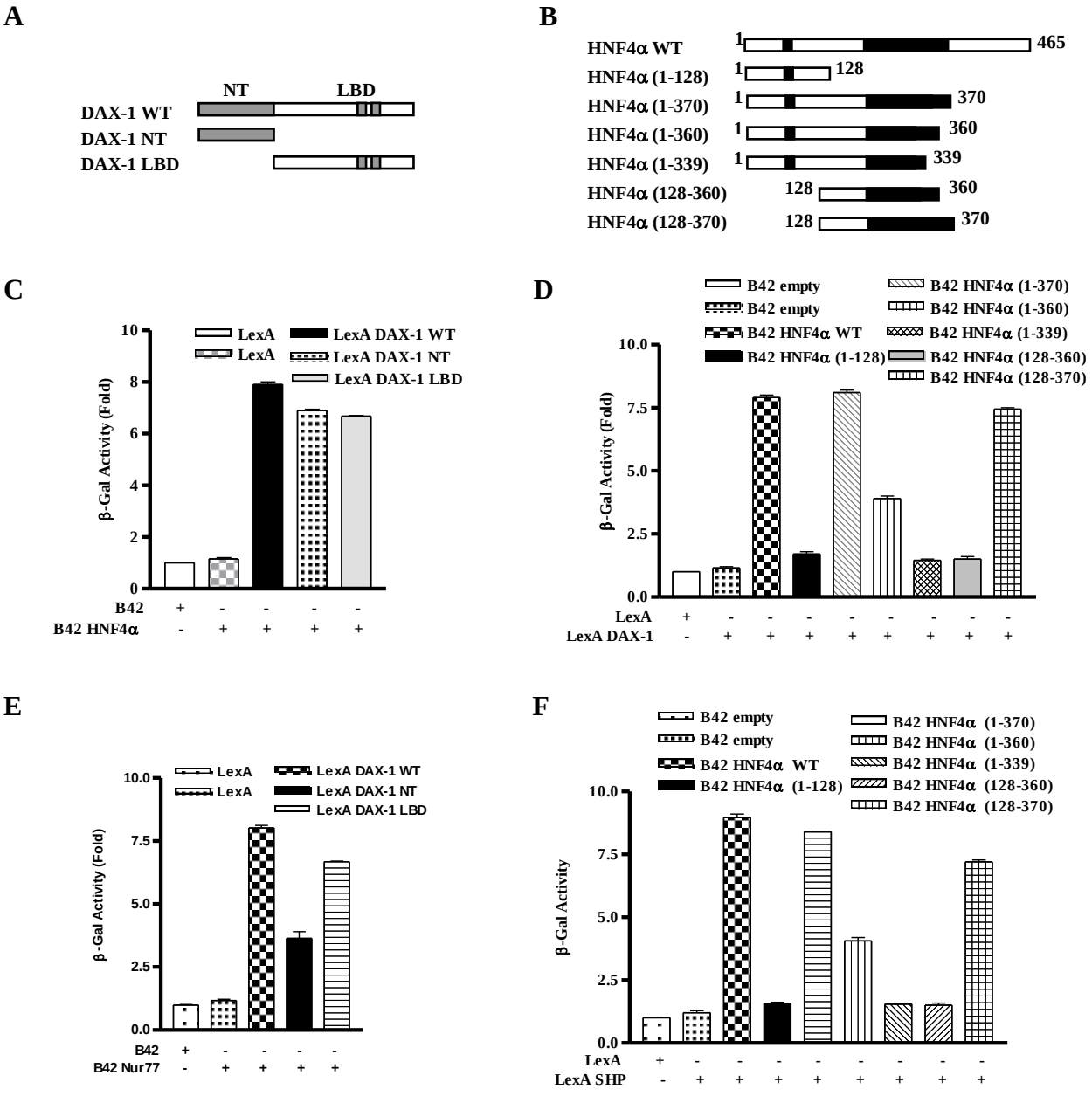
Supplemental Figure. 1. Inputs for *In vitro* interaction of DAX-1 and HNF4α. The input lane represents 10 % of the total volume of *in vitro* translated proteins used in the binding assay. GST and GST protein expression (upper panel) and in vitro translated HNF4α and PPARγ proteins (lower panel) were analyzed by coomassie blue staining and autoradiography.

Supplemental Figure. 2. *In vitro* domain mapping analysis. A & B. Schematic representation of DAX-1 and HNF4α deletion constructs. C & E. Yeast two-hybrid assays were performed using LexA fused deletion constructs of DAX-1 and B42 fusions of HNF4α (C) and Nur77 (E) deletion constructs with B42 fusion of HNF4α-WT. The graph indicates the representative from three independent experiments of liquid β-gal assay. D & F. Yeast two-hybrid assays were performed using B42 fusions of HNF4α-WT and deletion constructs with LexA fustions of DAX-1(D) and SHP (F). The graph shows the representative from three independent experiments of liquid β-gal assay.

S1


Coomassie staining
GST-DAX-1
GST
In vitro translation
PPARγ
HNF4α

S2


A
NT
LBD
DAX-1 WT
DAX-1 NT
DAX-1 LBD
B
HNF4α WT
HNF4α (1-128)
HNF4α (1-370)
HNF4α (1-360)
HNF4α (1-339)
HNF4α (128-360)
HNF4α (128-370)
1
465
128
370
360
339
C
LexA
LexA DAX-1 WT
LexA DAX-1 NT
LexA DAX-1 LBD
β-Gal Activity (Fold)
B42
B42 HNF4α
D
B42 empty
B42 HNF4α WT
B42 HNF4α (1-128)
B42 HNF4α (1-370)
B42 HNF4α (1-360)
B42 HNF4α (1-339)
B42 HNF4α (128-360)
B42 HNF4α (128-370)
LexA
LexA DAX-1
E
β -Gal Activity (Fold)
B42
B42 Nur77
F
β-Gal Activity
LexA
LexA SHP