



**Fig. S5.** Detection of the expression of BiFC wild-type and mutated LXR $\alpha$  in helices 9 and 10 by western blot analysis. COS-7 cells were transfected with the indicated expression plasmids (700 ng). Cell lysates were analyzed by 12% SDS-PAGE and transferred to a nitrocellulose membrane. The expression of BiFC-PPAR $\alpha$  and BiFC-RXR $\alpha$  proteins was detected by using a rabbit anti-PPAR $\alpha$  serum (provided by Dr. Hardwick) and rabbit anti-RXR $\alpha$  antibody (SC-553, Santa Cruz).