

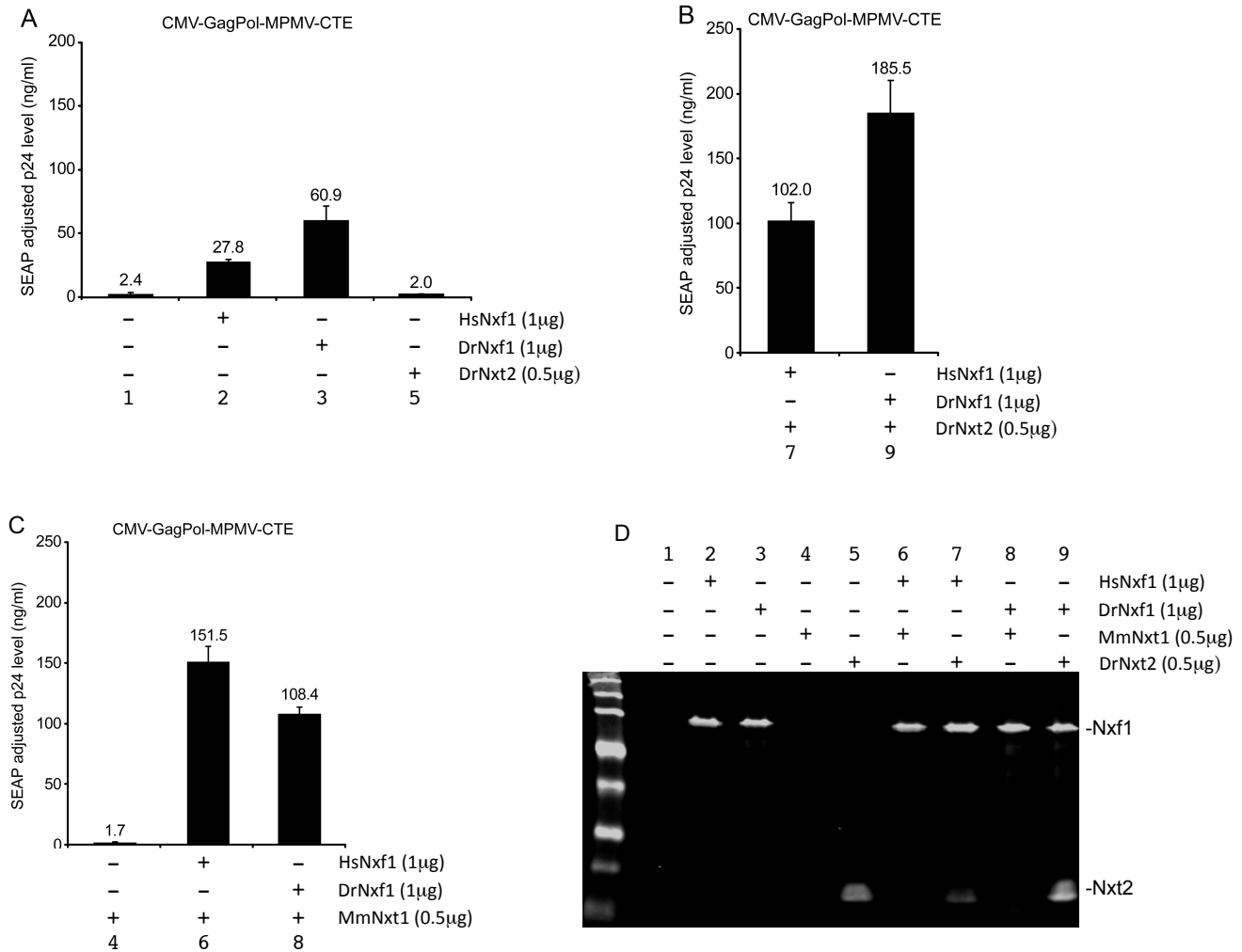


Fig S1. Comparison of MPMV-CTE function with added Nxf1 and Nxt proteins from zebrafish and mammals. 293T (1.2×10^6) cells were transfected with 1.8 ug the reporter plasmid pCMVGagPol-MPMV-CTE (HR1361), 90 ng of pCMV-SEAP (HR1931), and plasmids expressing the Nxf1 and Nxt proteins as indicated in the figure. HsNxf1, DrNxf1 and DrNxt2 contained NH2-terminal Flag-epitope tags. MmNxt1 did not express a Flag-tag. DNA transfection and p24 and SEAP activity analyses were performed as described in the legend of Figure 3(A). (A) Analyses of p24 expression in pCMVGagPol-MPMV-CTE(2X)-transfected 293T cells in the presence of the human Nxf1, the mouse Nxf1, the zebrafish Nxf1, or the zebrafish Nxt2 protein. (B) Comparison of the function of the zebrafish Nxt2 and the human Nxf1-CTE with either the human Nxf1 protein or the zebrafish Nxf1 protein. (C) Comparison of the function of the mouse Nxt1 and the human Nxf1-CTE with either the human Nxf1 protein or the zebrafish Nxf2 (D) Levels of protein expression in the transfected 293T cells were visualized by Western blot analysis using a anti-Flag-epitope antibody as described in the legend of Figure 5(B).

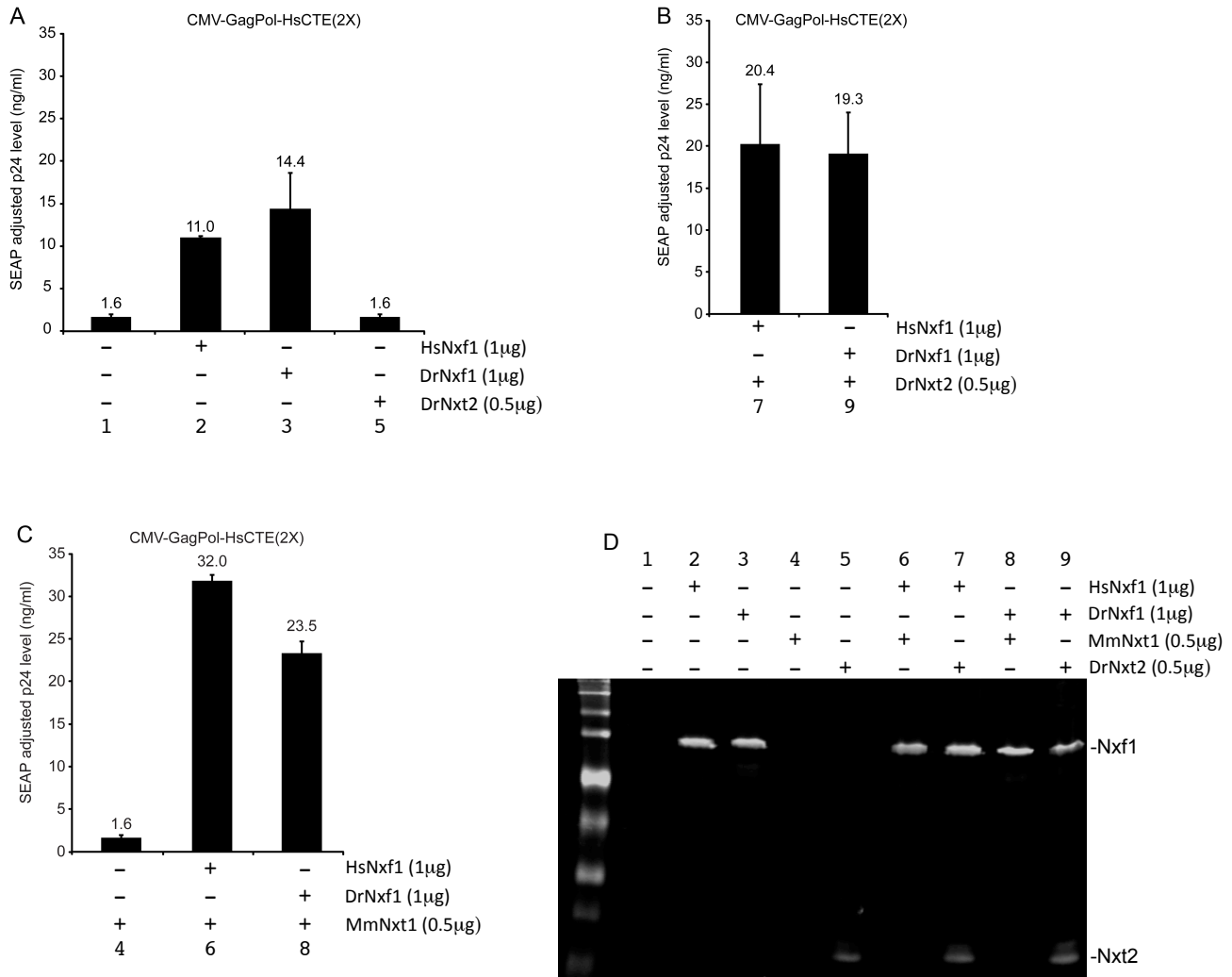


Figure S2. Comparison of Hs-CTE function with added Nxf1 and Nxt proteins from zebrafish and mammals. 293T (1.2×10^6) cells were transfected with 1.8 ug of the reporter plasmid pCMVGagPol-HsCTE(2X) (HR3406), 90 ng of pCMV-SEAP (HR1931), and plasmids expressing the Nxf1 and Nxt proteins as indicated in the figure. HsNxf1, DrNxf1 and DrNxt2 contained NH2-terminal Flag-epitope tags. MmNxt1 did not express a Flag-tag.. DNA transfection and p24 and SEAP activity analyses were performed as described in the legend of Figure 3(A). (A) Analyses of p24 expression in pCMVGagPol-HsCTE(2X) (HR3406) transfected 293T cells in the presence of the human Nxf1, the mouse Nxt1, the zebrafish Nxf1, or the zebrafish Nxt2 protein. (B) Comparison of the function of the zebrafish Nxt2 and the human Nxf1-CTE with either the human Nxf1 protein or the zebrafish Nxf1 protein. (C) Comparison of the function of the mouse Nxt1 and the human Nxf1-CTE with either the human Nxf1 protein or the zebrafish Nxf2 (D) Levels of protein expression in the transfected 293T cells were visualized by Western blot analysis using a anti-Flag-epitope antibody as described in the legend of Figure 5(B).