

Supporting Information Raw Images: Uncropped blots for Figures 1B, 2C, 3ACD, 4DE, 5BDE, 6BCF, and Supplementary Figure S5BDF. Areas of interest used in figures are outlined with a red box. Experimental approach, antibody (where relevant), detection strategy and equipment are indicated for each image. Sizes are shown corresponding to molecular weight markers for proteins or 100 bp ladders for PCR products. Lanes not used in the figure are marked with “X”.

Fig. 1b (top)

K627, Western blot, α -FLAG, chemiluminescence, Odyssey Fc

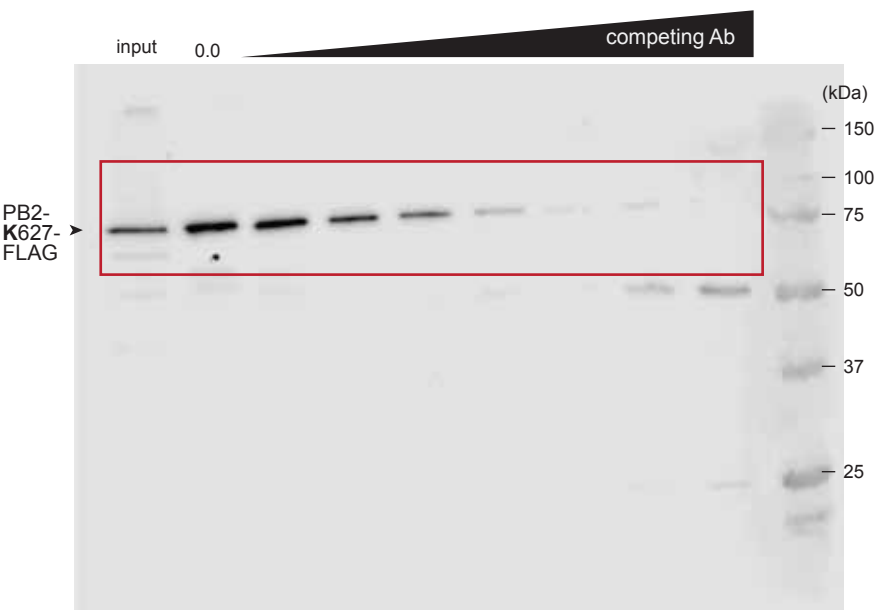


Fig. 1b (middle)

E627, Western blot, α -FLAG, chemiluminescence, Odyssey Fc

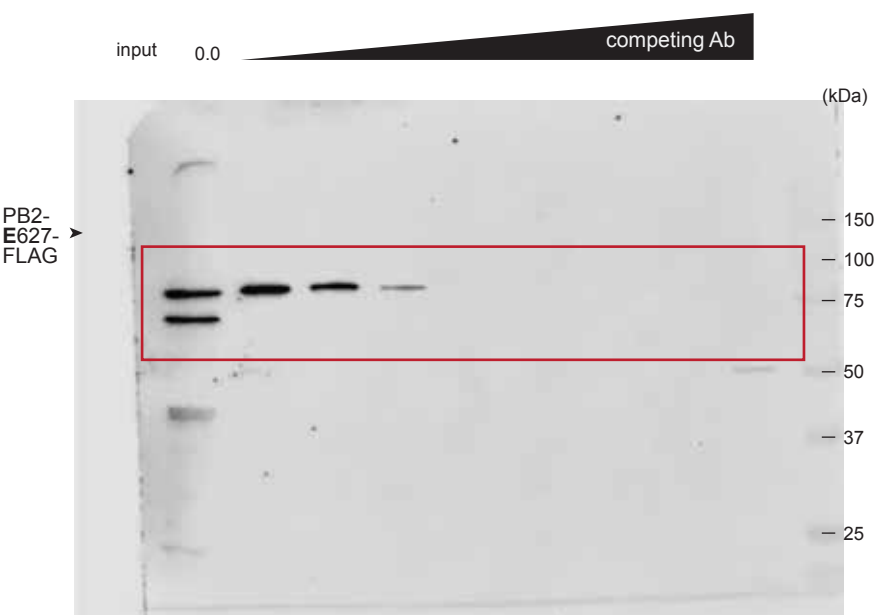


Fig. 1b (bottom)

K627, SDS-PAGE, silver stain, PC photo scanner

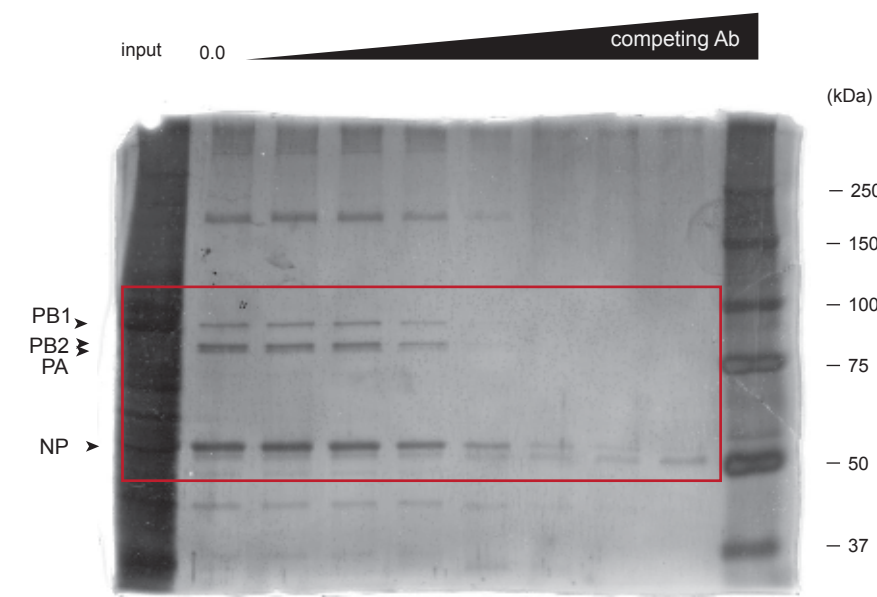


Fig. 2c (left)

hnRNPUL1, Western blot, α -UL1, chemiluminescence, Odyssey Fc

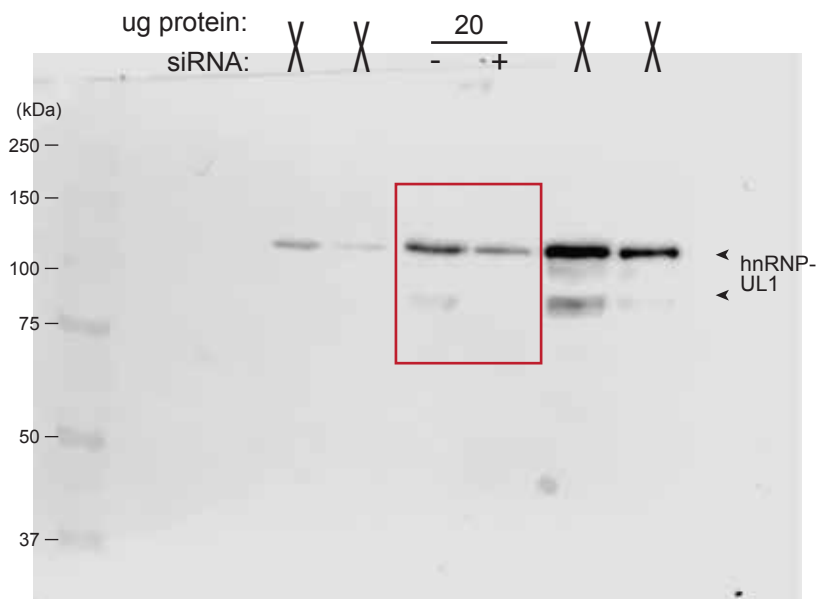


Fig. 2c (right)

MECR, Western blot, α -MECR, chemiluminescence, Odyssey Fc

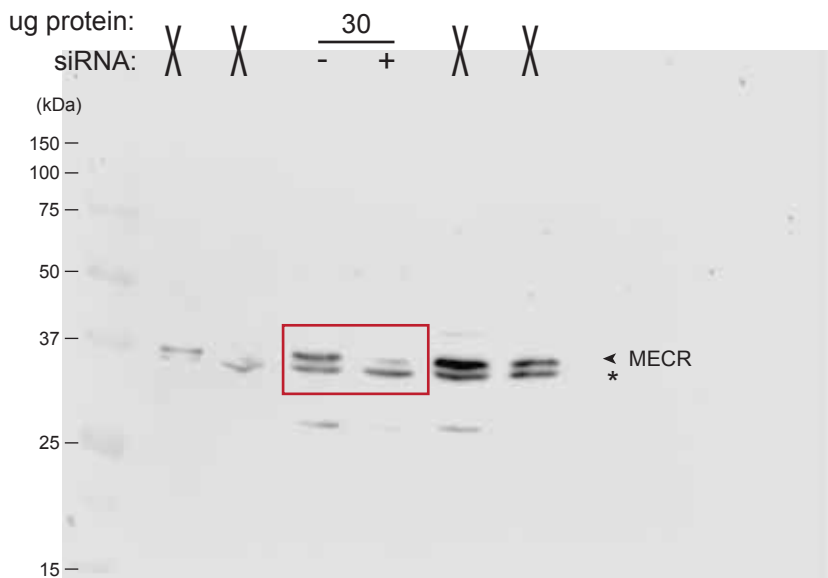


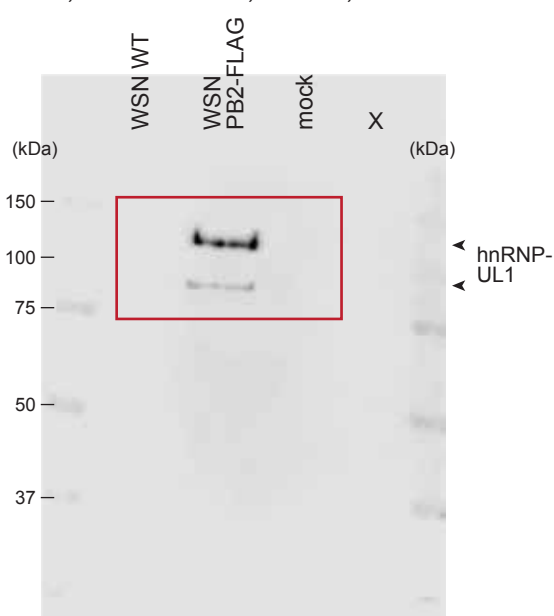
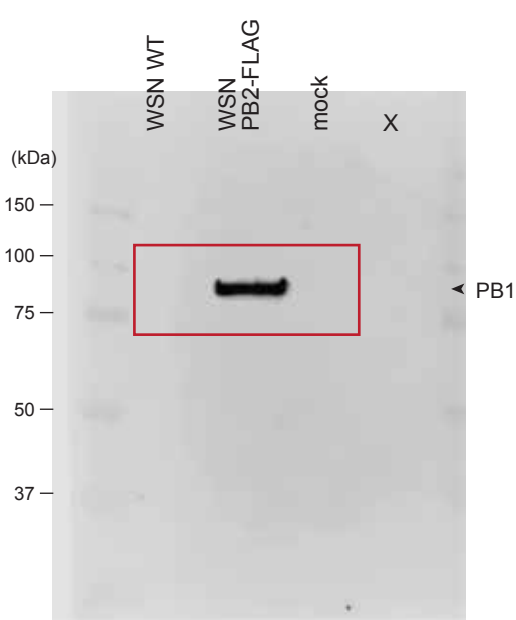
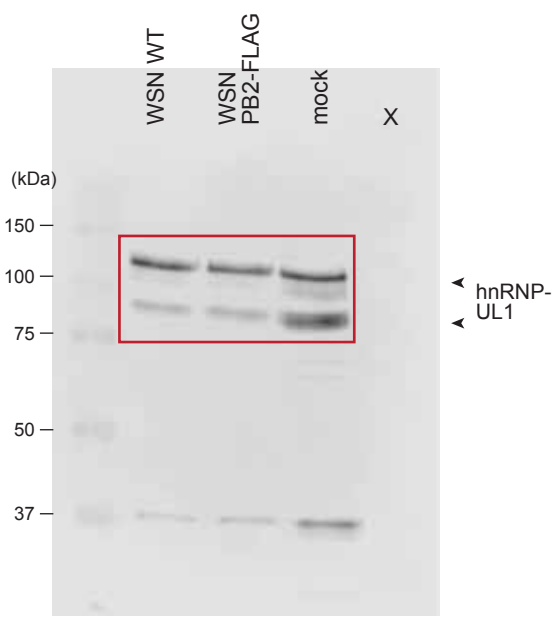
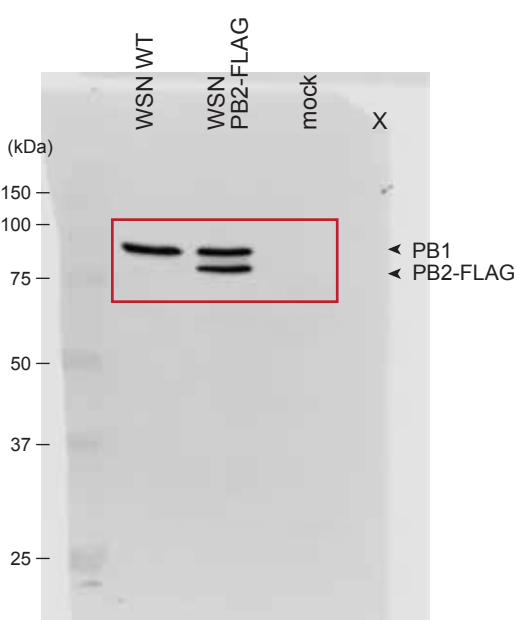
Fig. 3a (top)IP:FLAG, Western blot, α -UL1, chemiluminescence, Odyssey Fc**Fig. 3a (top)**IP:FLAG, Western blot, α -PB1, chemiluminescence, Odyssey Fc**Fig. 3a (bottom)**input, Western blot, α -UL1, chemiluminescence, Odyssey Fc**Fig. 3a (bottom)**input, Western blot, α -PB1/FLAG, chemiluminescence, Odyssey Fc

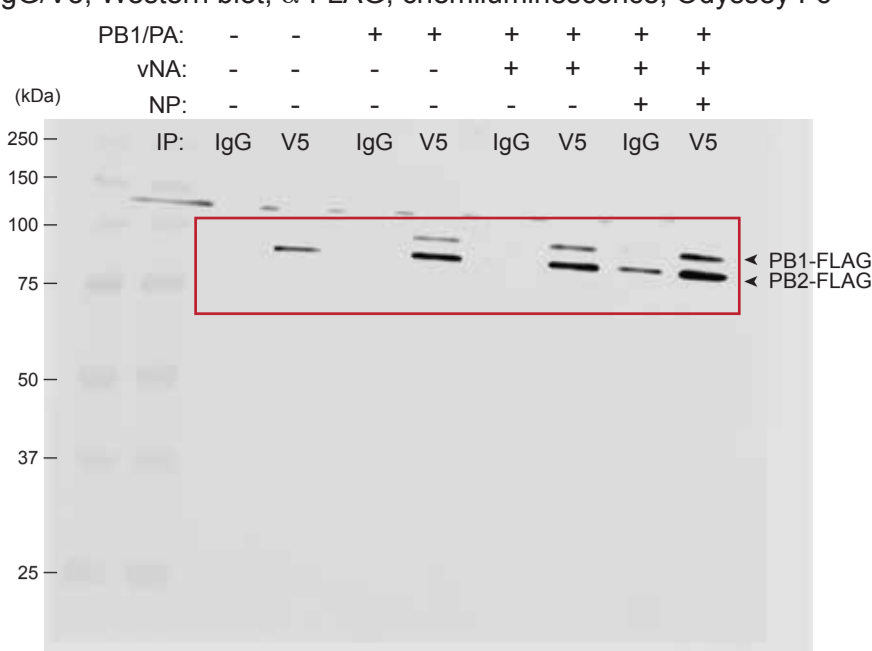
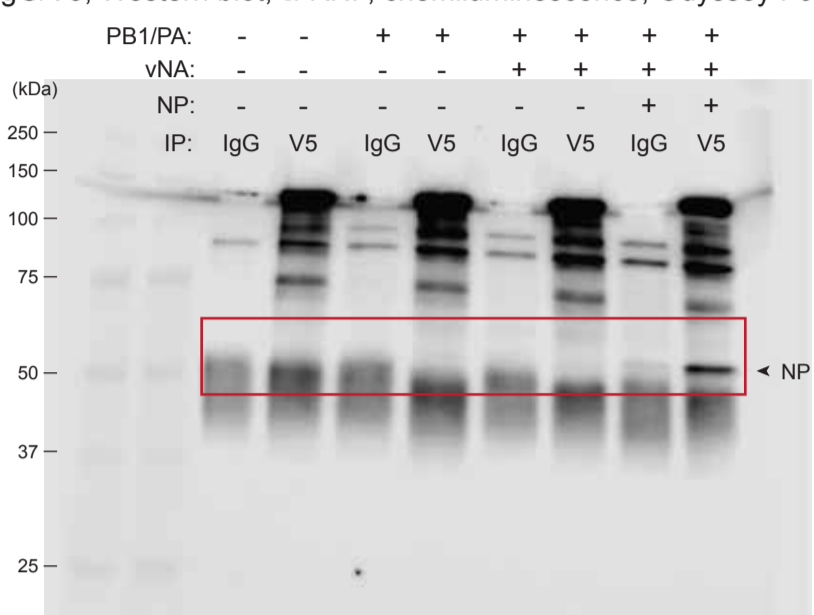
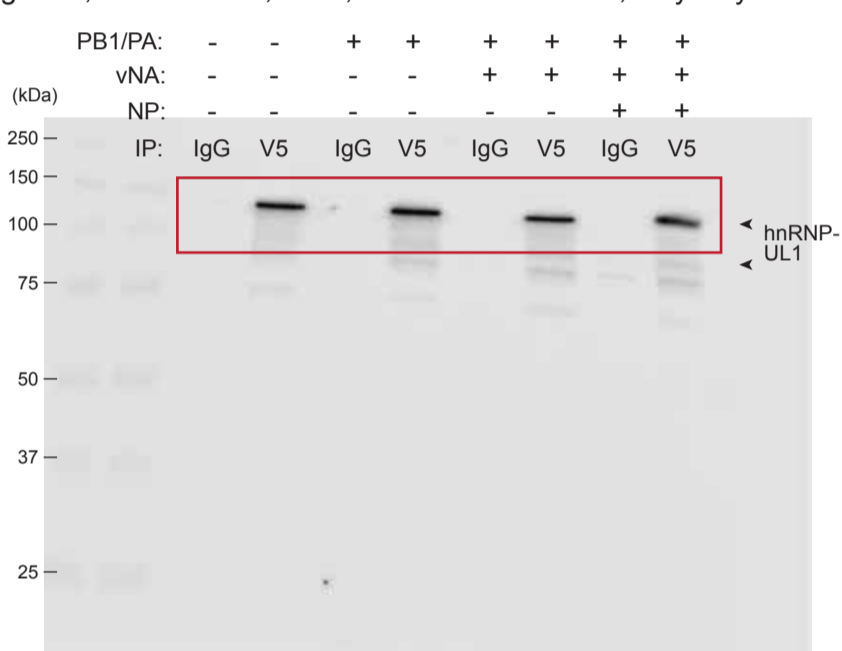
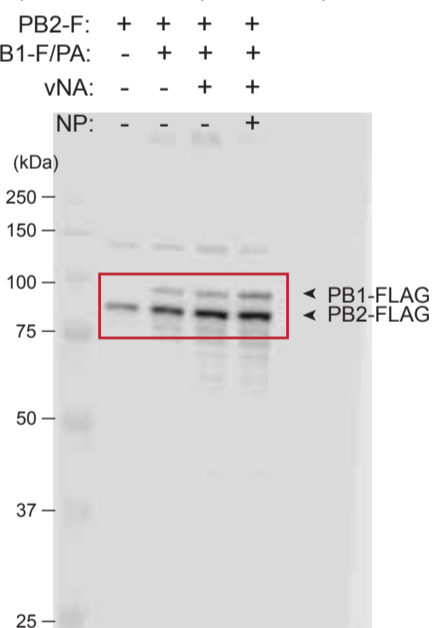
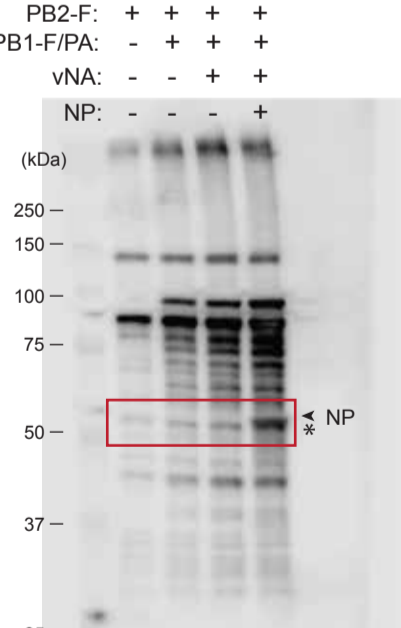
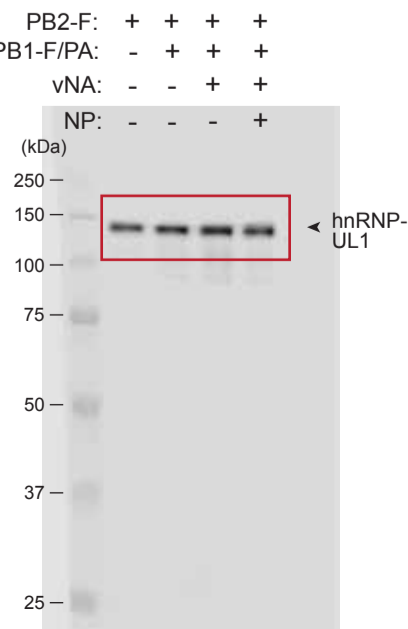
Fig. 3c (top)IP:IgG/V5, Western blot, α -FLAG, chemiluminescence, Odyssey Fc**Fig. 3c (top)**IP:IgG/V5, Western blot, α -RNP, chemiluminescence, Odyssey Fc**Fig. 3c (top)**IP:IgG/V5, Western blot, α -V5, chemiluminescence, Odyssey Fc**Fig. 3c (bottom)**input, Western blot, α -FLAG, chemiluminescence, Odyssey Fc**Fig. 3c (bottom)**input, Western blot, α -RNP, chemiluminescence, Odyssey Fc**Fig. 3c (bottom)**input, Western blot, α -V5, chemiluminescence, Odyssey Fc

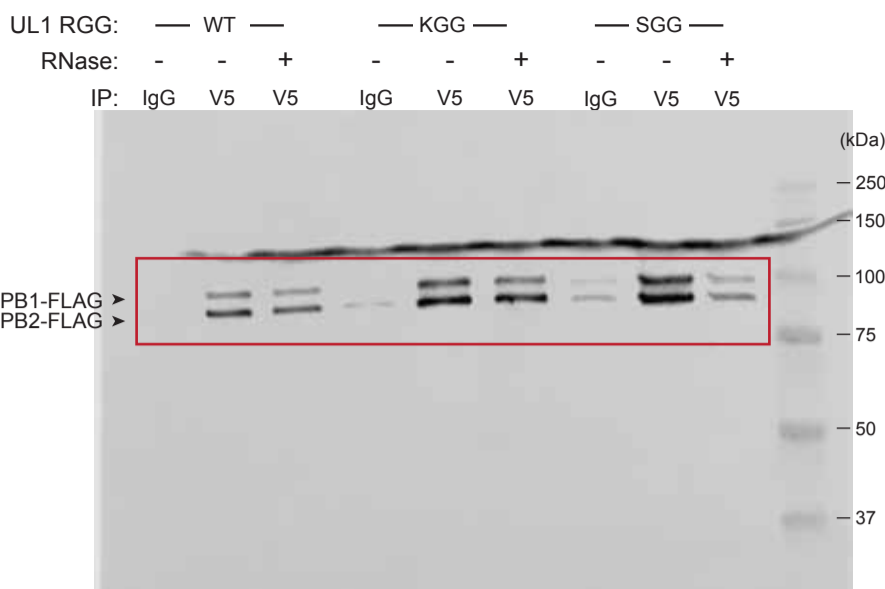
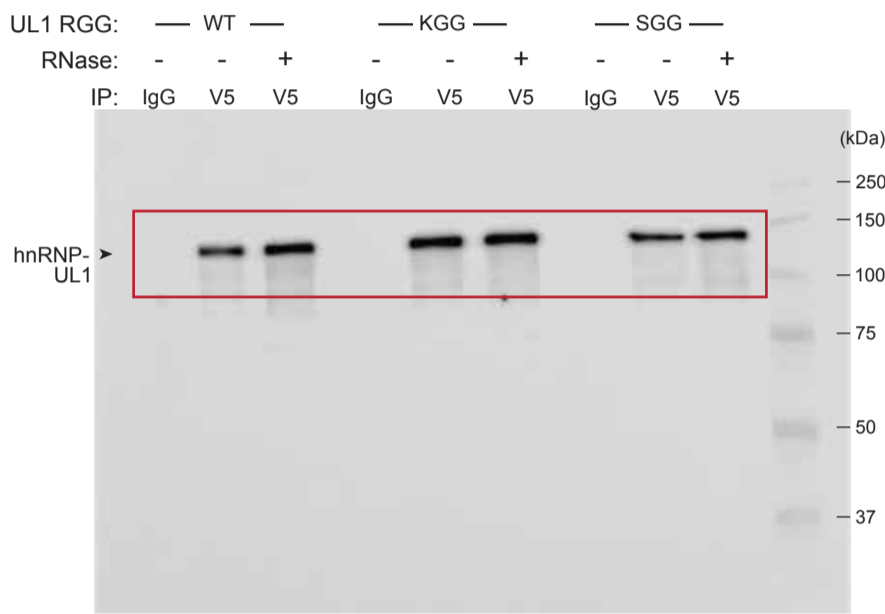
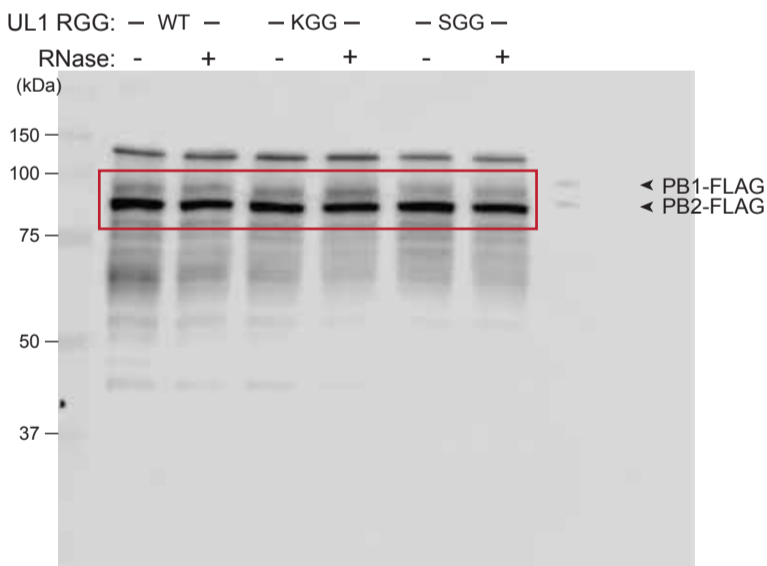
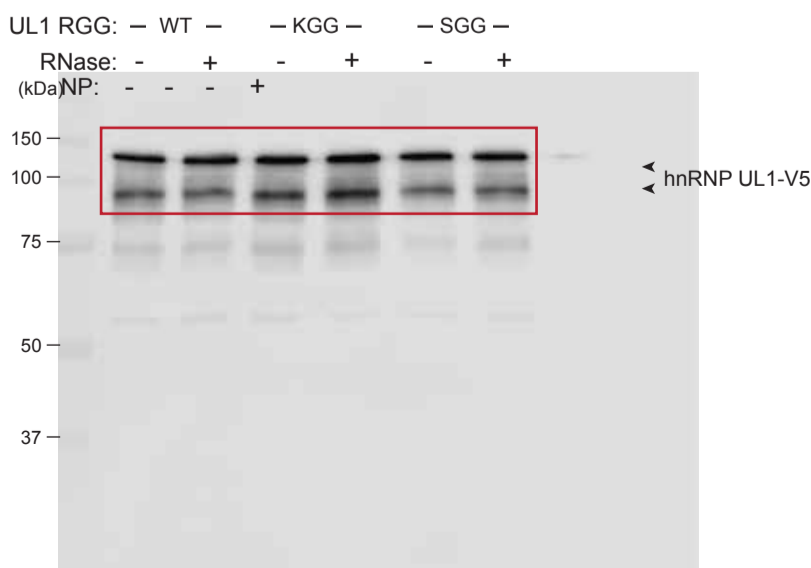
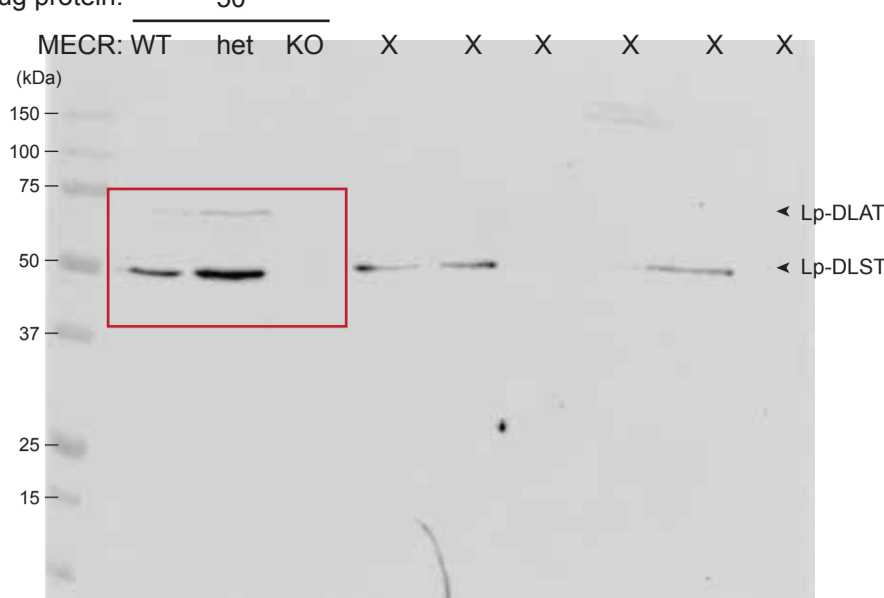
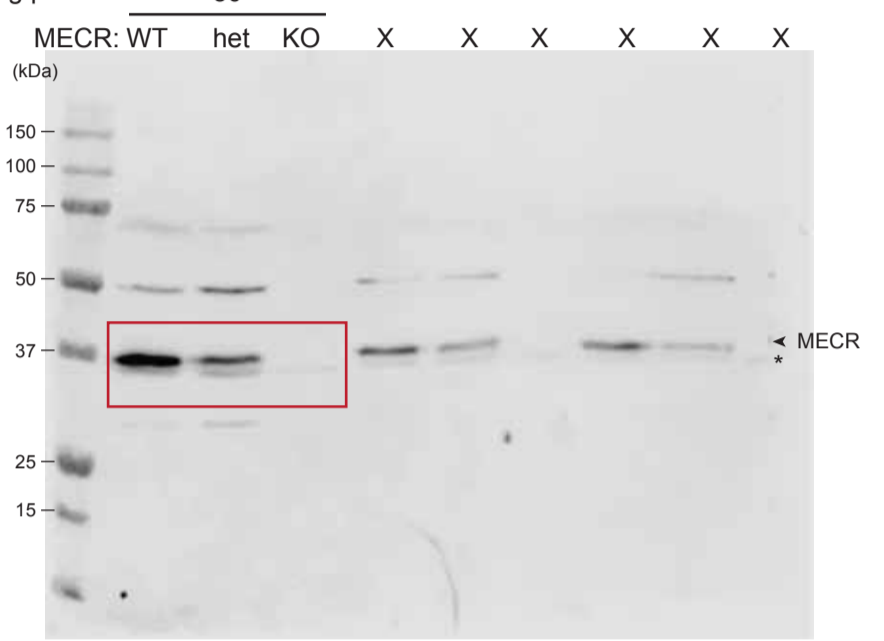
Fig. 3d (top)IP:IgG/V5, Western blot, α -FLAG, chemiluminescence, Odyssey Fc**Fig. 3d (top)**IP:IgG/V5, Western blot, α -V5, chemiluminescence, Odyssey Fc**Fig. 3d (bottom)**input, Western blot, α -FLAG, chemiluminescence, Odyssey Fc**Fig. 3d (bottom)**input, Western blot, α -V5, chemiluminescence, Odyssey Fc

Fig. 4d (top)Lipoic acid, Western blot, α -LA, chemiluminescence, Odyssey Fc

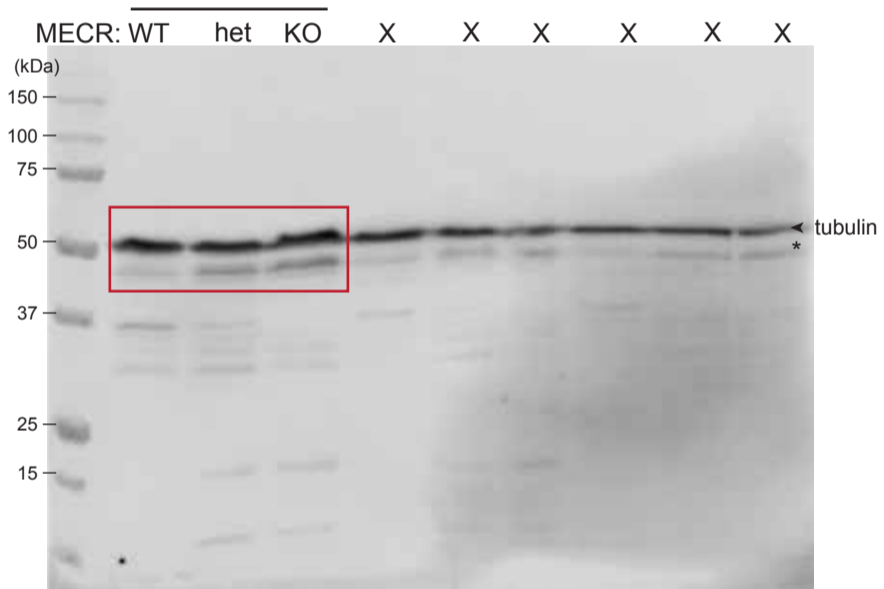
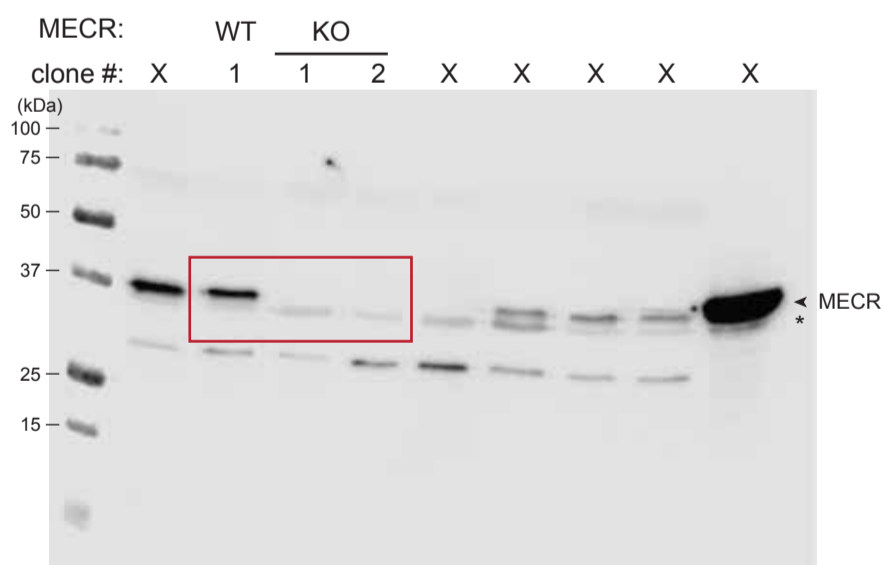
ug protein: 50

**Fig. 4d (middle)**MECR, Western blot, α -MECR, chemiluminescence, Odyssey Fc

ug protein: 50

**Fig. 4d (bottom)**tubulin, Western blot, α -tubulin, chemiluminescence, Odyssey Fc

ug protein: 50

**Fig. 4e (top)**MECR, Western blot, α -MECR, chemiluminescence, Odyssey Fc**Fig. 4e (bottom)**

protein, Western blot, coomassie brilliant blue (CBB), PC photoscanner

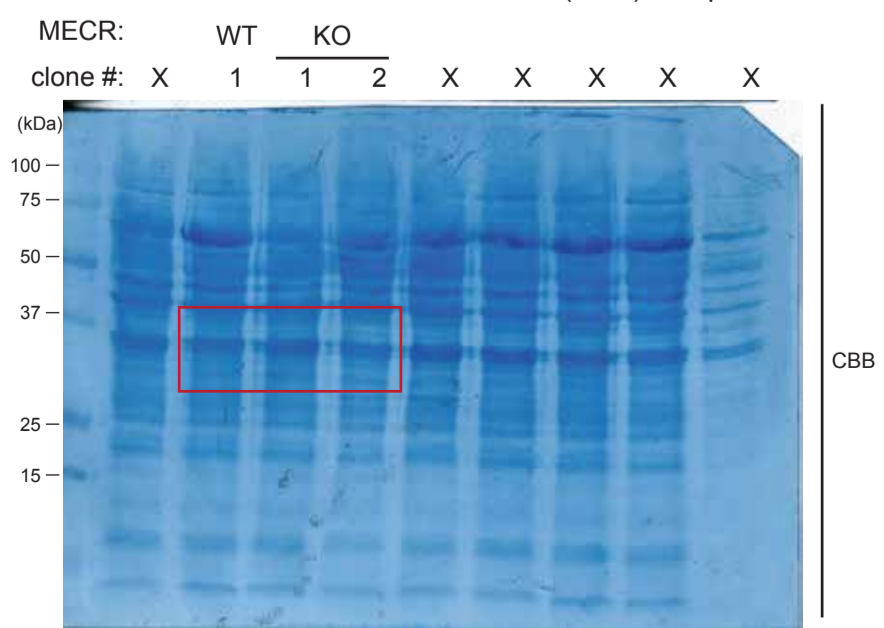


Fig. 5b (left)

cMECR-V5, Western blot, α -V5, NIR-800, Odyssey Fc

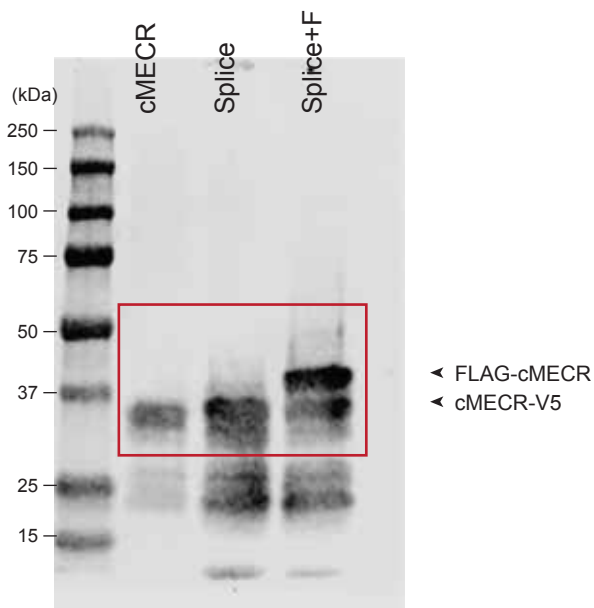


Fig. 5b (right)

cMECR-splice, Western blot, α -FLAG, NIR-700, Odyssey Fc

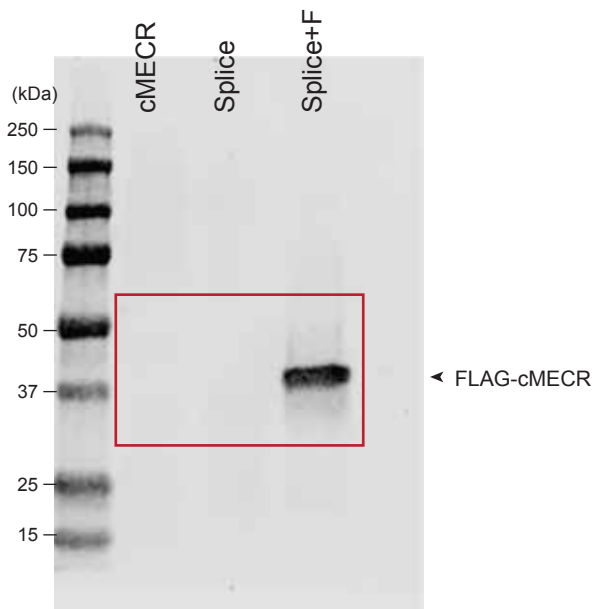


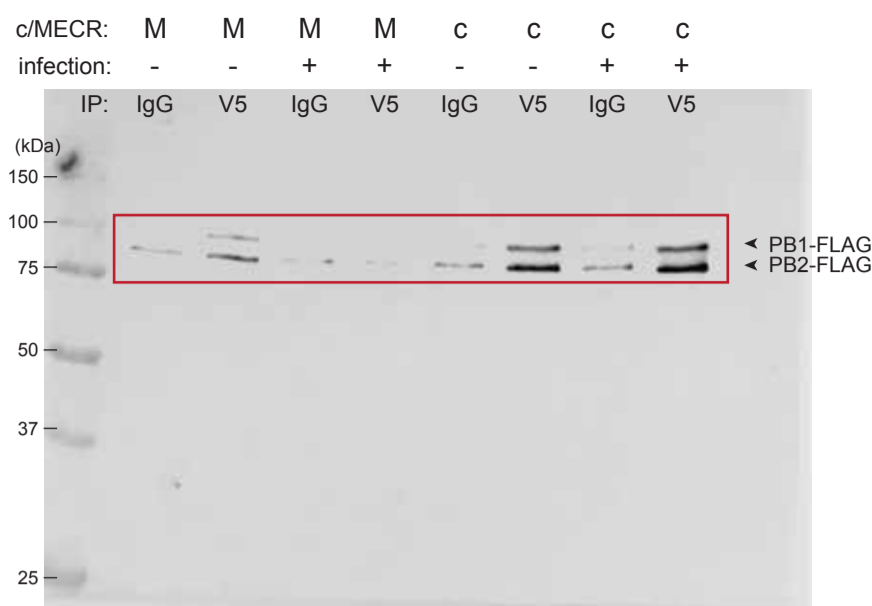
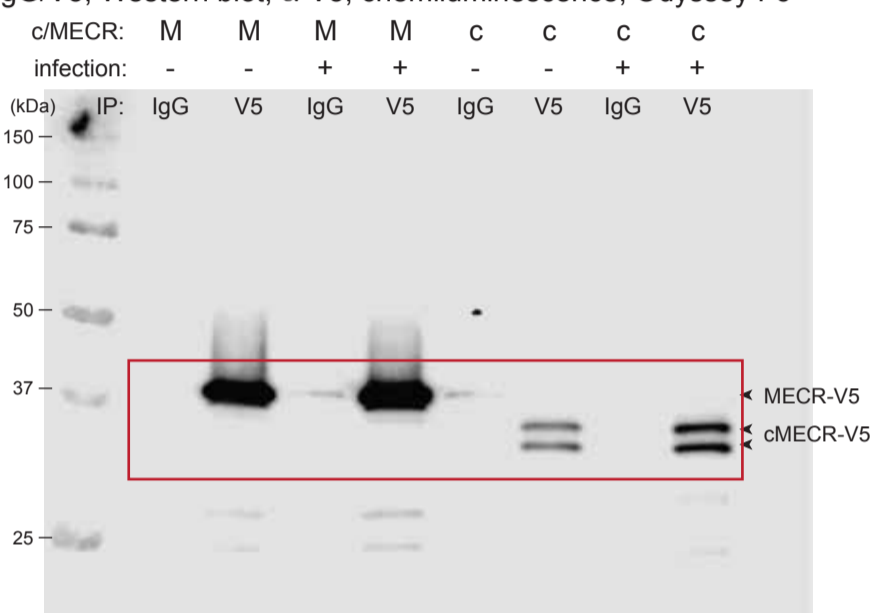
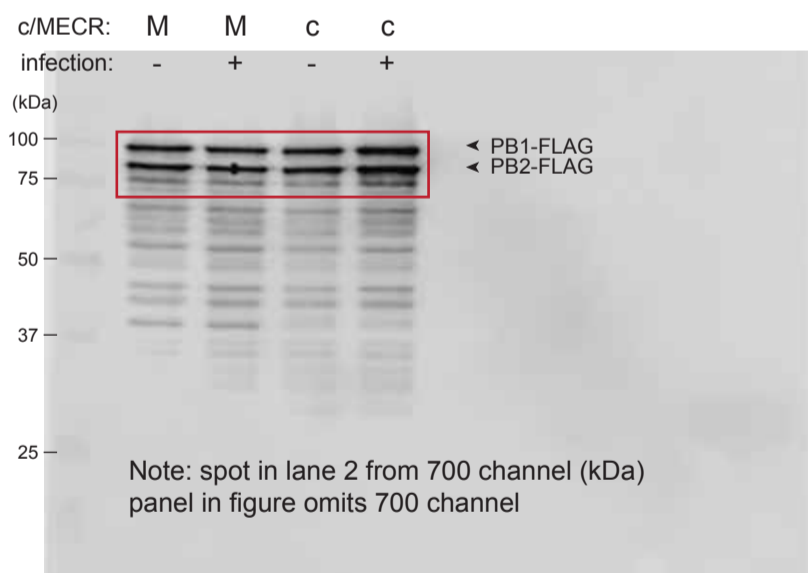
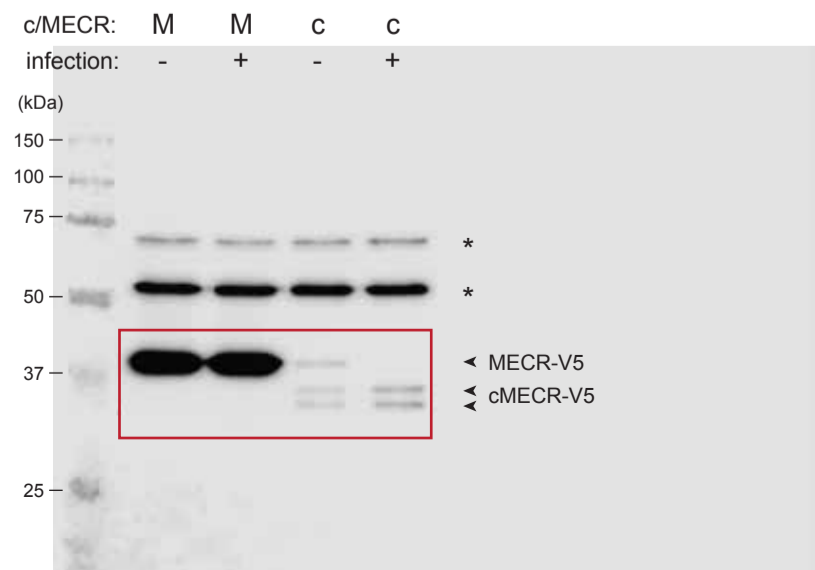
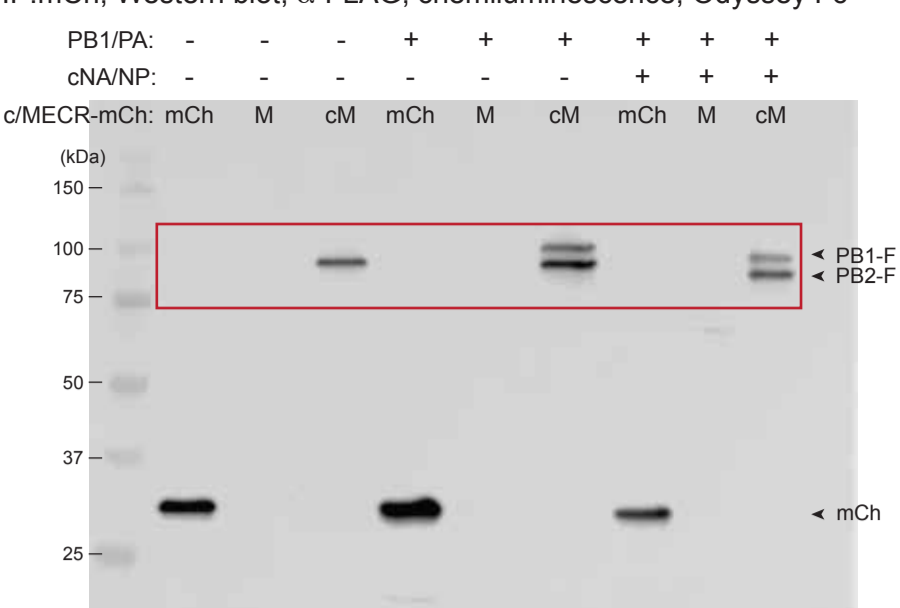
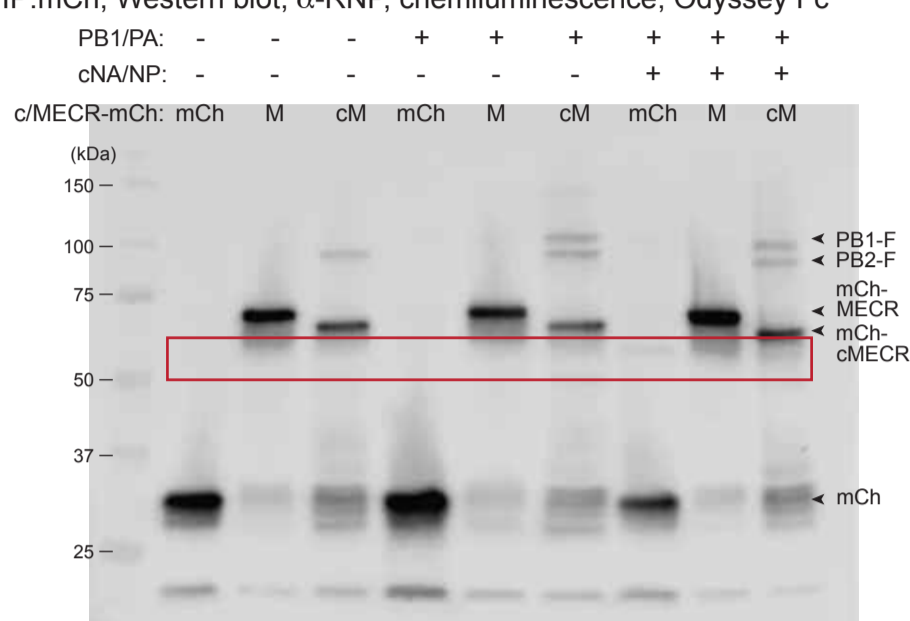
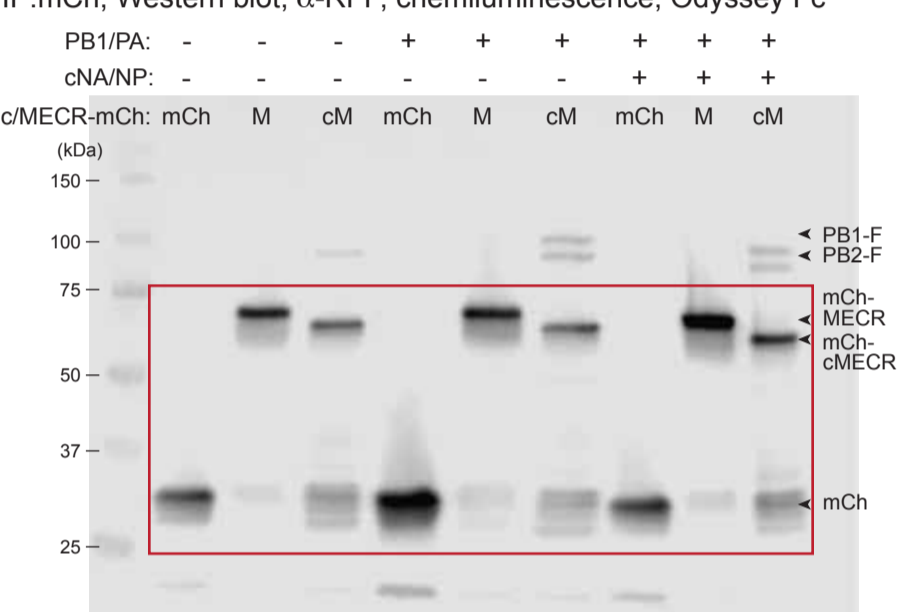
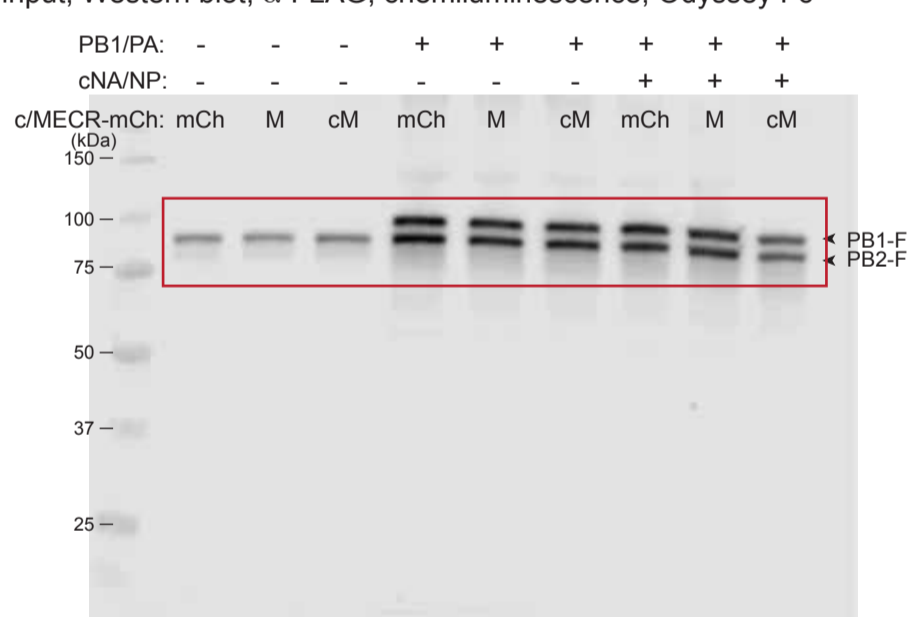
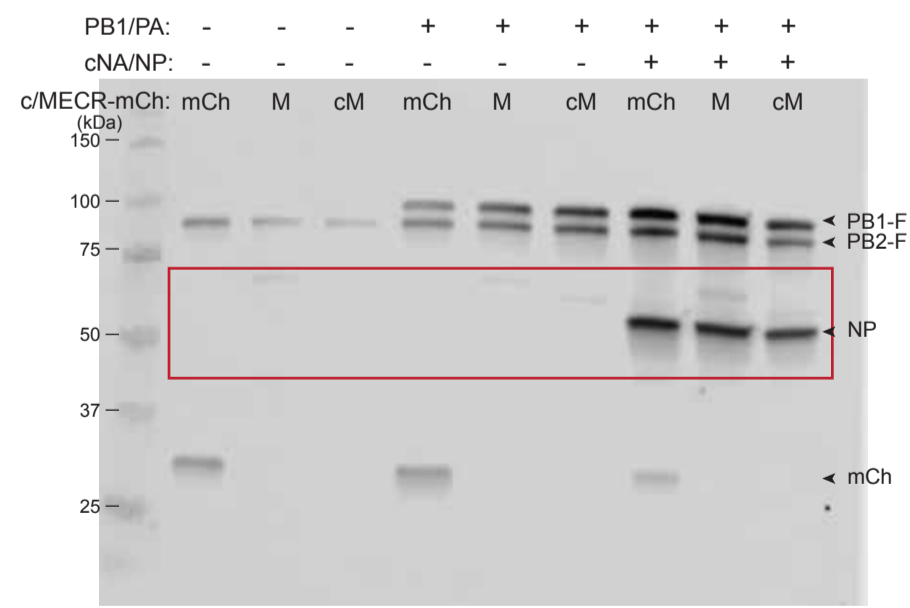
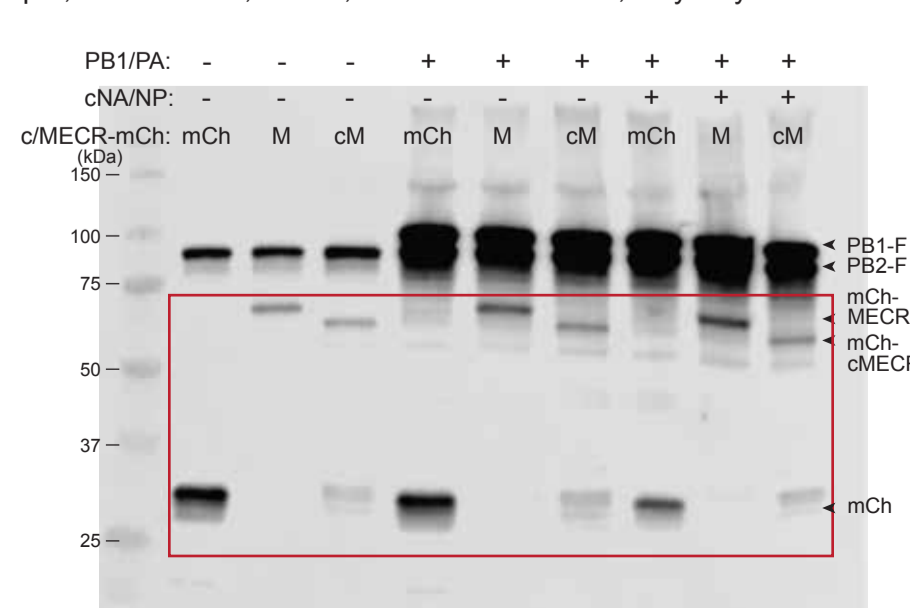
Fig. 5d (top)IP:IgG/V5, Western blot, α -FLAG, chemiluminescence, Odyssey Fc**Fig. 5d (top)**IP:IgG/V5, Western blot, α -V5, chemiluminescence, Odyssey Fc**Fig. 5d (bottom)**input, Western blot, α -FLAG, chemiluminescence, Odyssey Fc**Fig. 5d (bottom)**input, Western blot, α -V5, chemiluminescence, Odyssey Fc

Fig. 5e (top)IP:mCh, Western blot, α -FLAG, chemiluminescence, Odyssey Fc**Fig. 5e (top)**IP:mCh, Western blot, α -RNP, chemiluminescence, Odyssey Fc**Fig. 5e (top)**IP:mCh, Western blot, α -RFP, chemiluminescence, Odyssey Fc**Fig. 5e (bottom)**input, Western blot, α -FLAG, chemiluminescence, Odyssey Fc**Fig. 5e (bottom)**input, Western blot, α -RNP, chemiluminescence, Odyssey Fc**Fig. 5e (bottom)**input, Western blot, α -RFP, chemiluminescence, Odyssey Fc

IP:mCh, Western blot, α -FLAG, chemiluminescence, Odyssey Fc

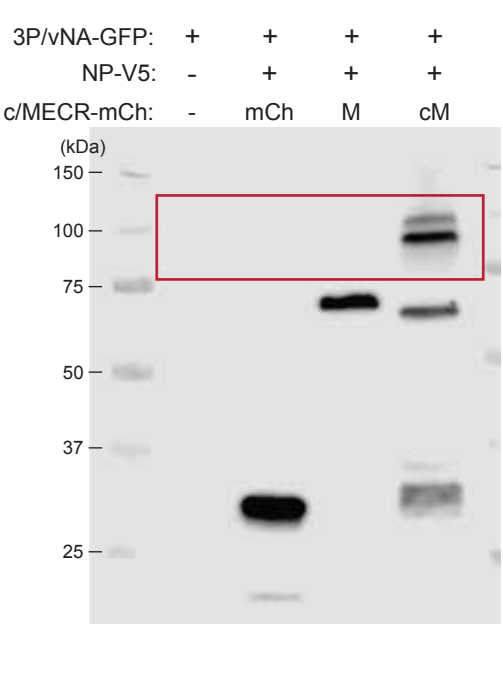


Fig. 6b (top left)

IP:mCh, Western blot, α -V5, chemiluminescence, Odyssey Fc

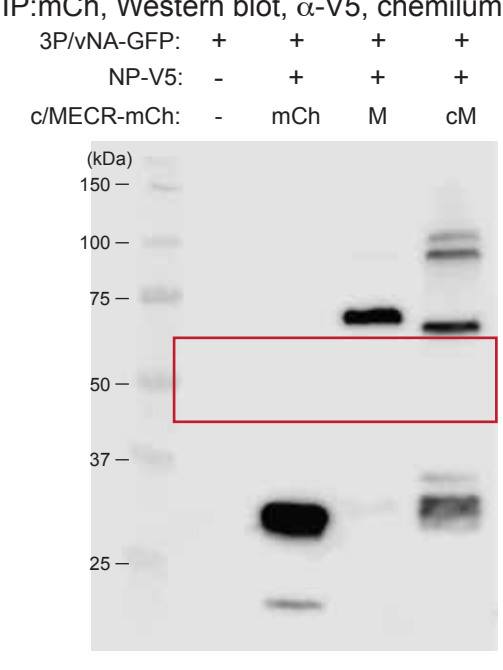


Fig. 6b (top left)

IP:mCh, Western blot, α -RFP, chemiluminescence, Odyssey Fc

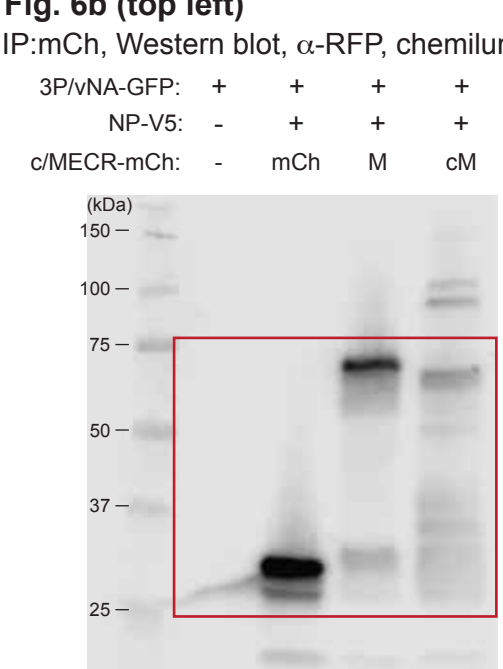


Fig. 6b (top left)

IP:V5, Western blot, α -FLAG, chemiluminescence, Odyssey Fc

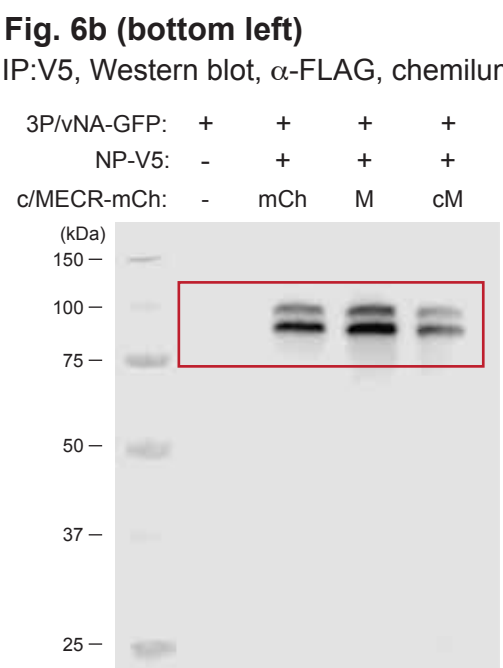


Fig. 6b (bottom left)

IP:V5, Western blot, α -V5, chemiluminescence, Odyssey Fc

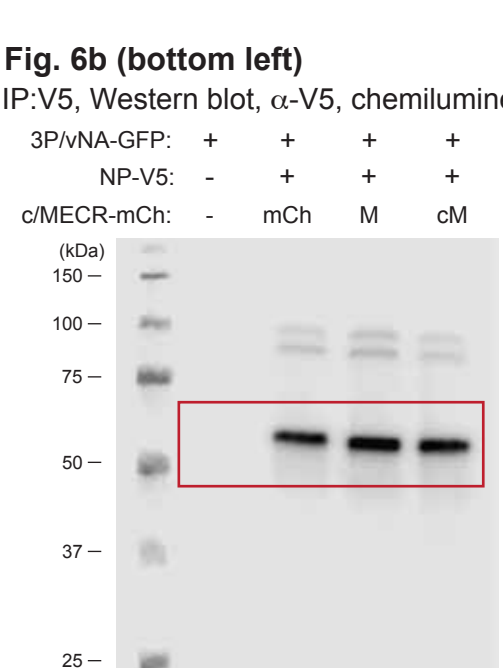


Fig. 6b (bottom left)

IP:V5, Western blot, α -RFP, chemiluminescence, Odyssey Fc

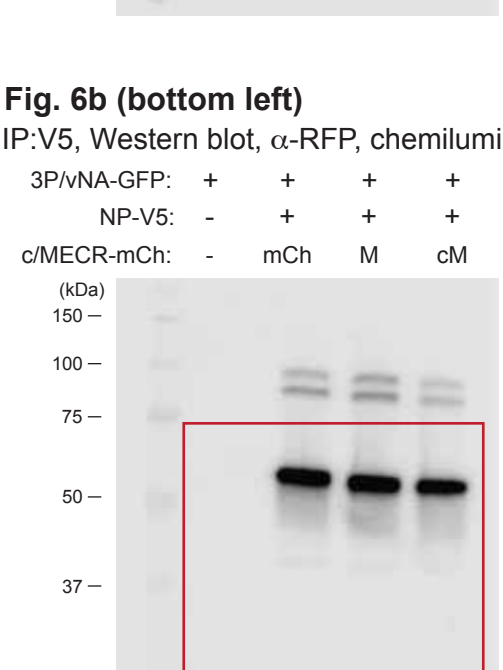


Fig. 6b (bottom left)

input, Western blot, α -FLAG, chemiluminescence, Odyssey Fc

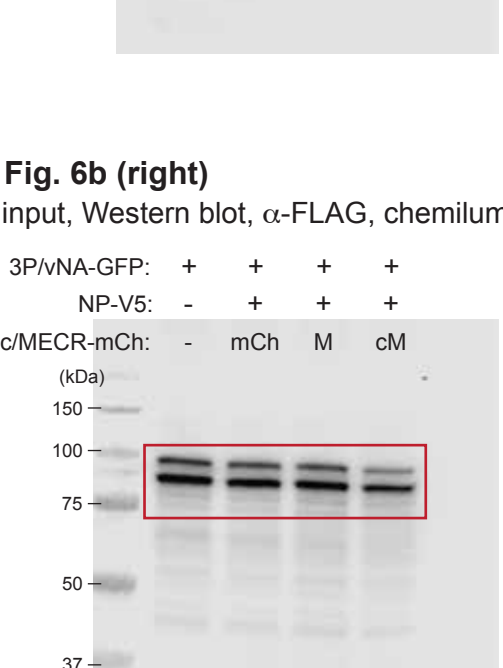


Fig. 6b (right)

input, Western blot, α -V5, chemiluminescence, Odyssey Fc

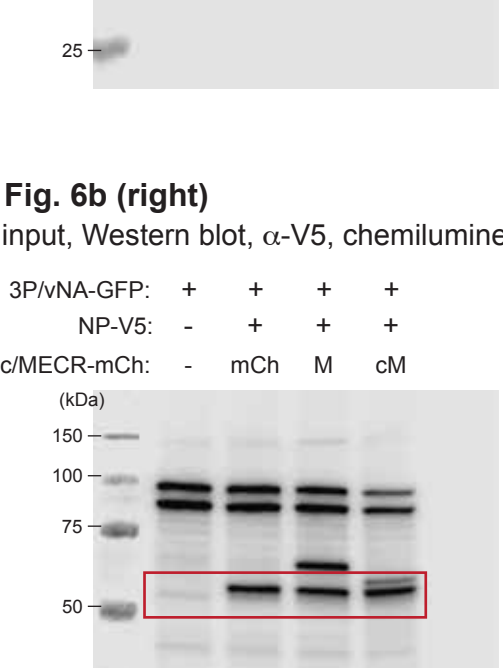


Fig. 6b (right)

input, Western blot, α -RFP, chemiluminescence, Odyssey Fc

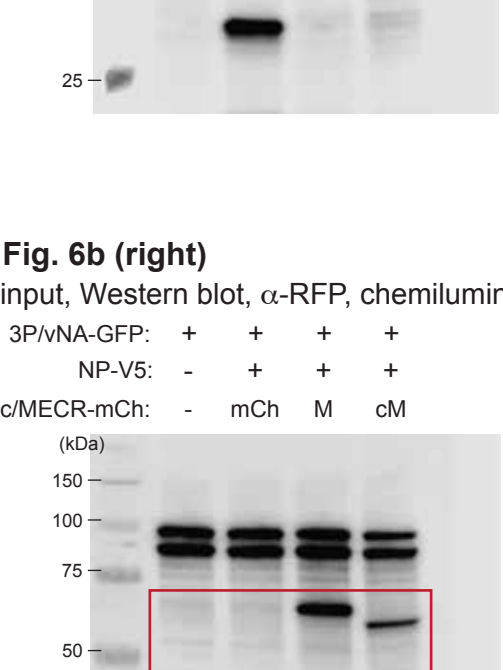


Fig. 6b (right)

input, Western blot, α -GFP, chemiluminescence, Odyssey Fc

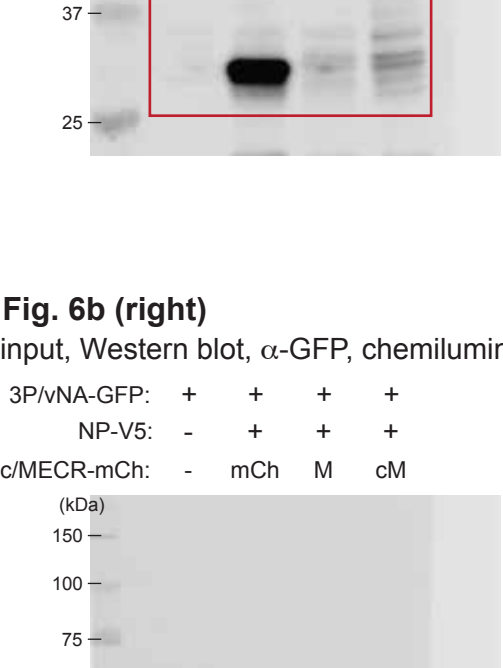


Fig. 6b (right)

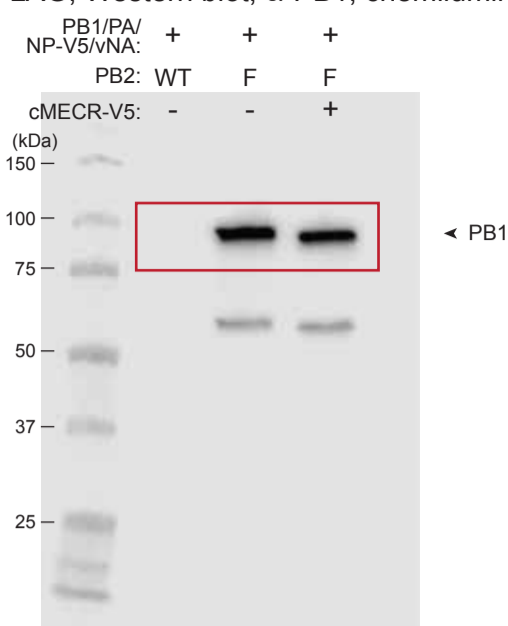
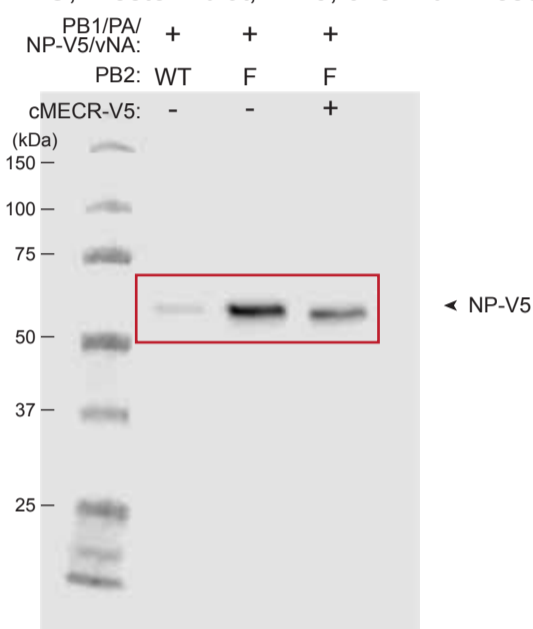
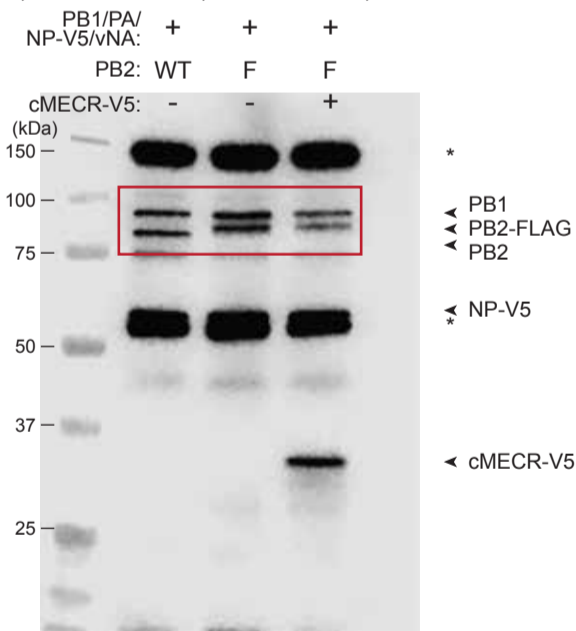
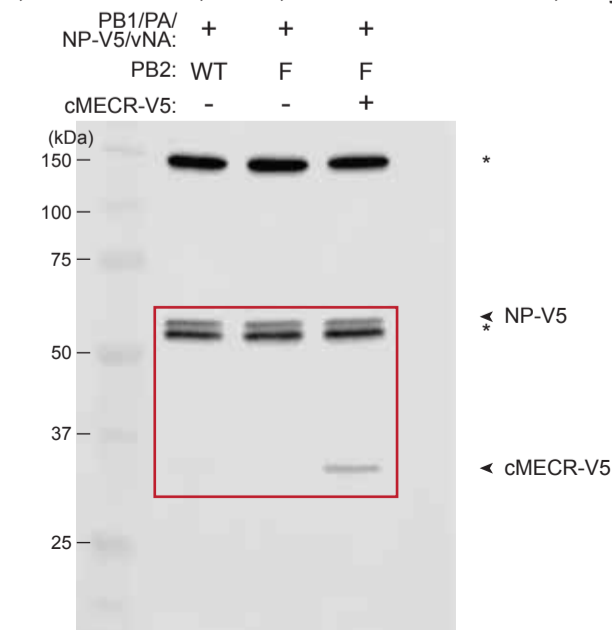
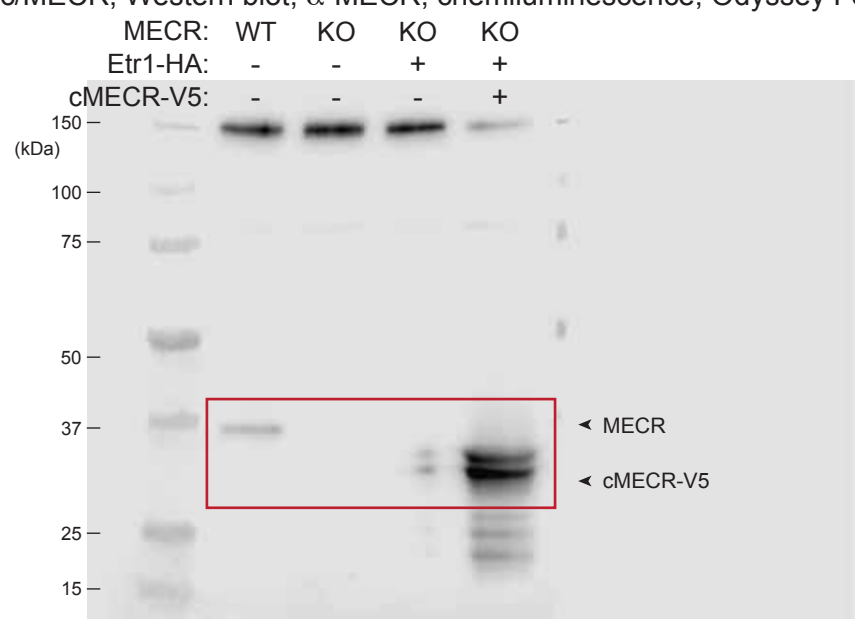
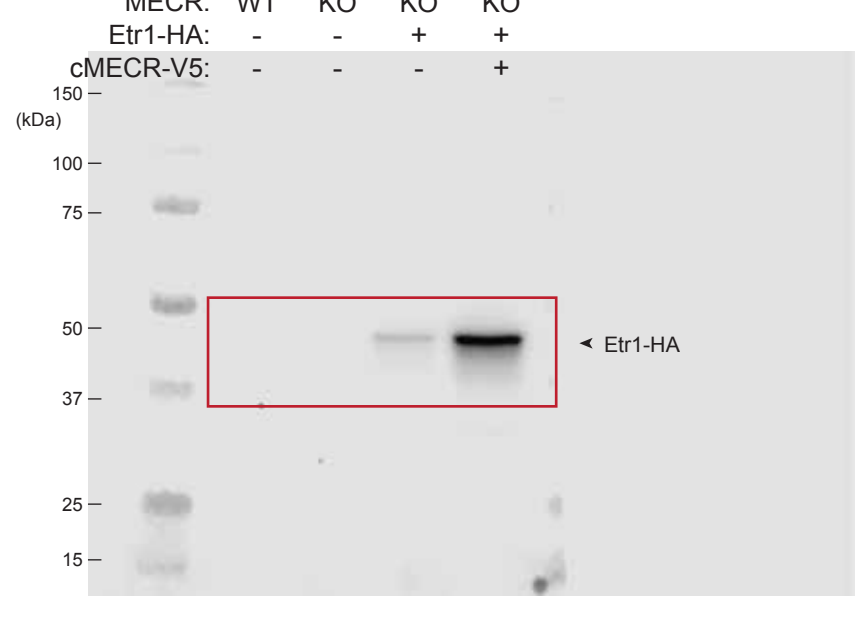
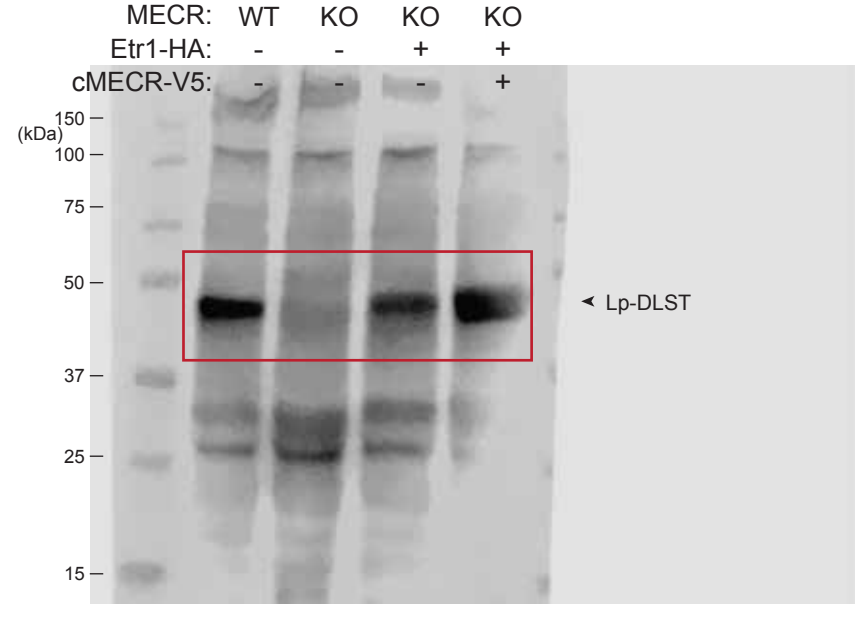
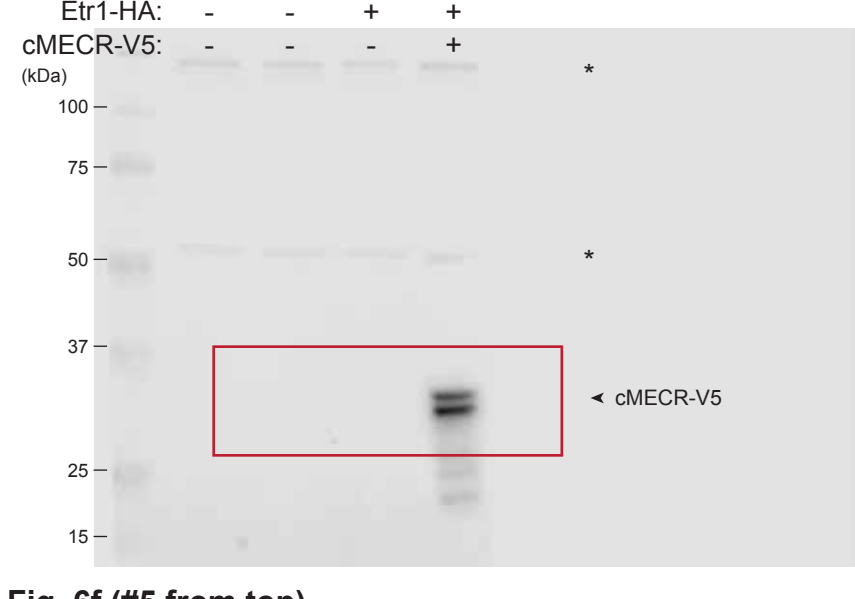
Fig. 6c (top)IP:FLAG, Western blot, α -PB1, chemiluminescence, Odyssey Fc**Fig. 6c (top)**IP:FLAG, Western blot, α -V5, chemiluminescence, Odyssey Fc**Fig. 6c (bottom)**input, Western blot, α -PB1/PB2, chemiluminescence, Odyssey Fc**Fig. 6c (bottom)**input, Western blot, α -V5, chemiluminescence, Odyssey Fc

Fig. 6f (#1 from top)c/MECR, Western blot, α -MECR, chemiluminescence, Odyssey Fc**Fig. 6f (#2 from top)**Etr1, Western blot, α -HA, chemiluminescence, Odyssey Fc**Fig. 6f (#3 from top)**Lipoic acid, Western blot, α -LA, chemiluminescence, Odyssey Fc**Fig. 6f (#4 from top)**cMECR, Western blot, α -V5, chemiluminescence, Odyssey Fc**Fig. 6f (#5 from top)**

protein, Western blot, coomassie brilliant blue (CBB), PC photoscanner

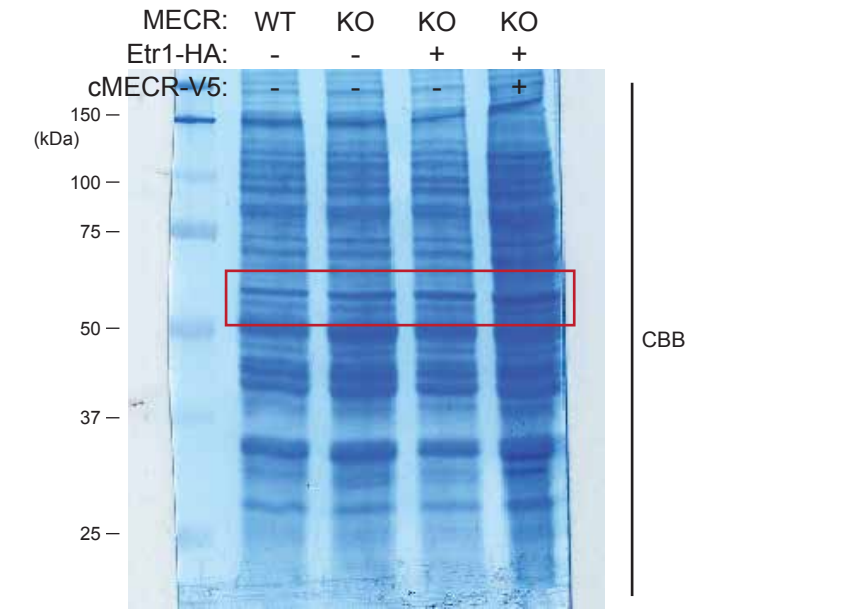
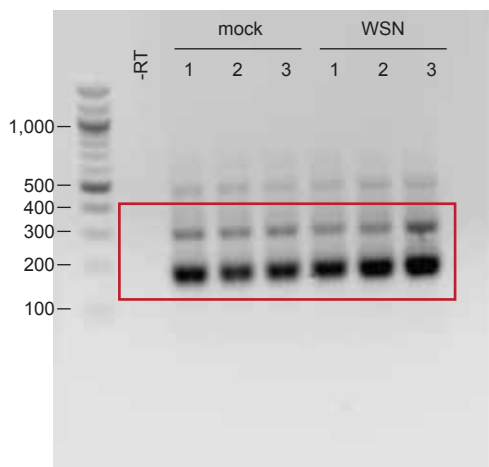
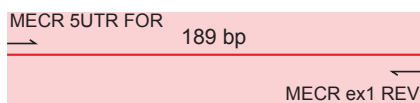
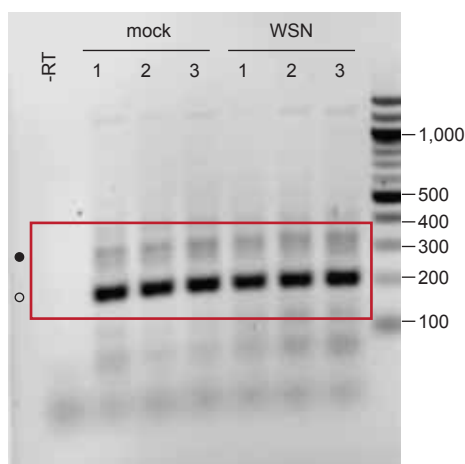
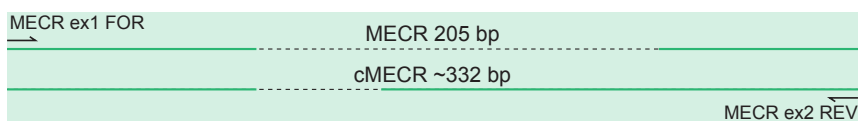


Fig. S5b (left)

MECR ex1, Agarose gel, EtBr, 600 NIR channel, Odyssey Fc

**Fig. S5b (middle)**

MECR ex1-2, Agarose gel, EtBr, 600 NIR channel, Odyssey Fc

**Fig. S5b (right)**

MECR ex2-3, Agarose gel, EtBr, 600 NIR channel, Odyssey Fc

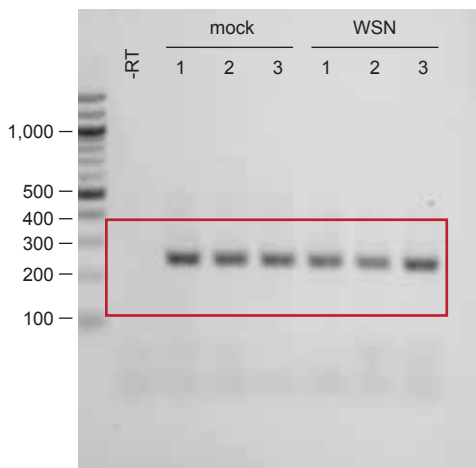
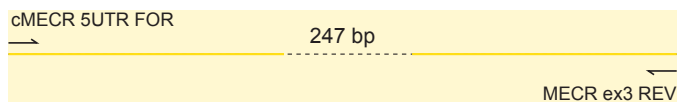


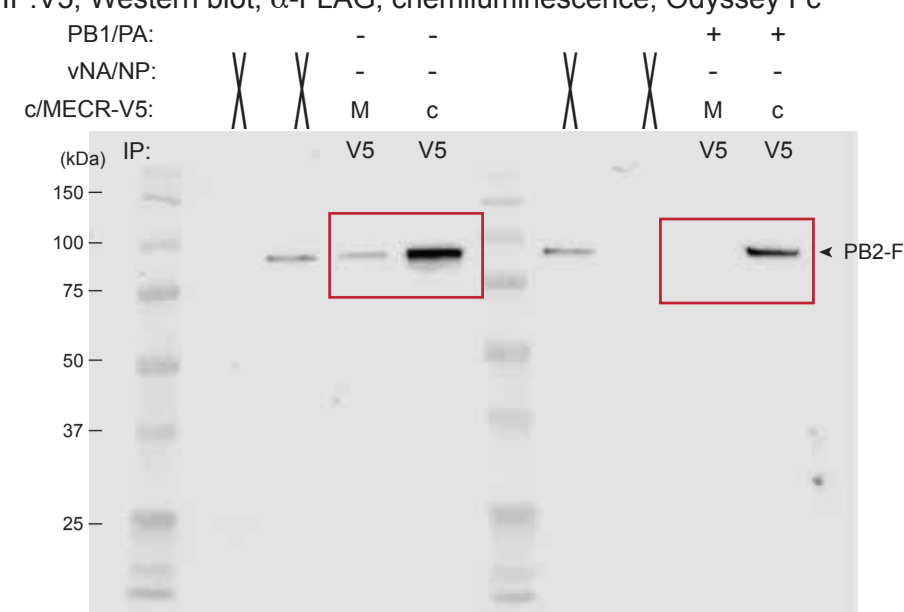
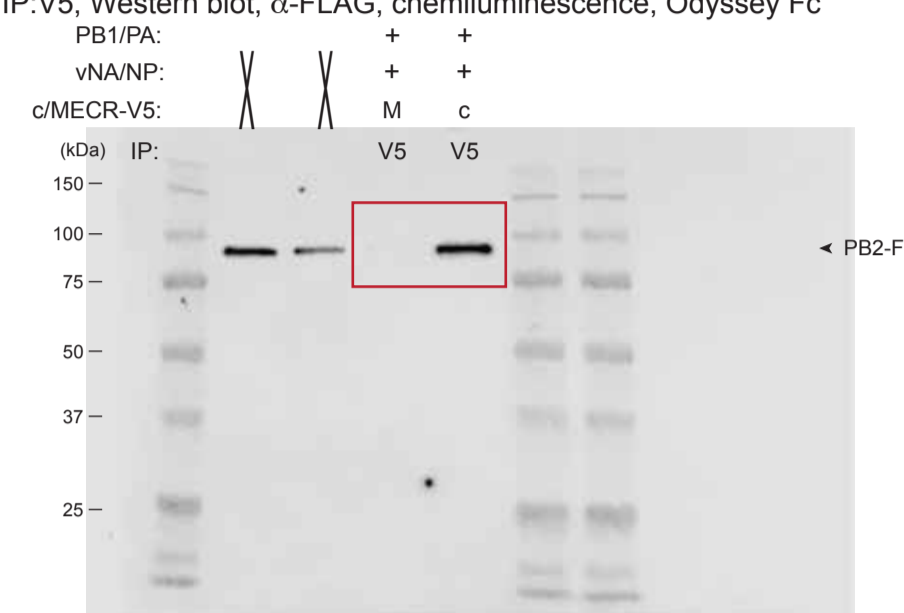
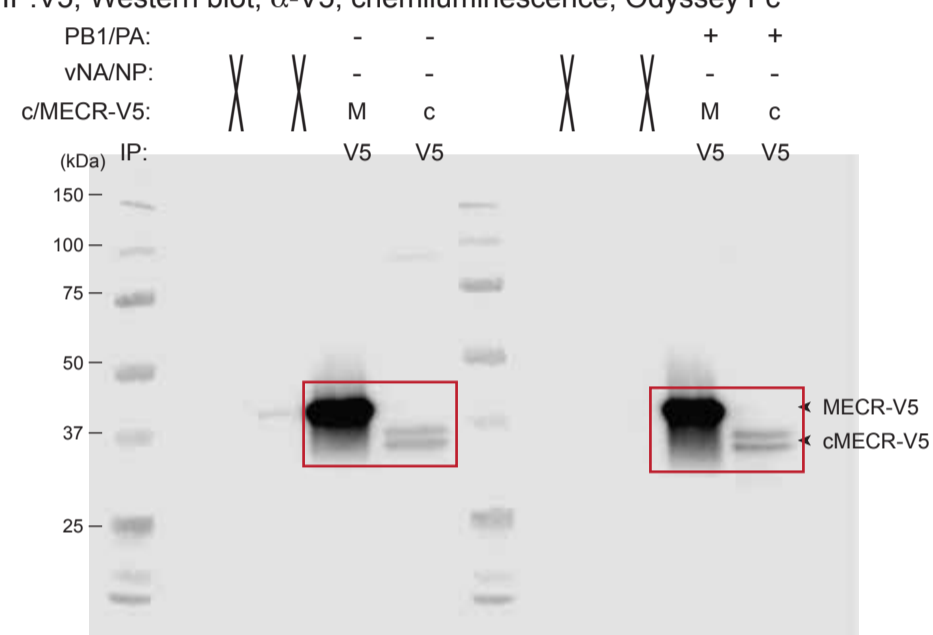
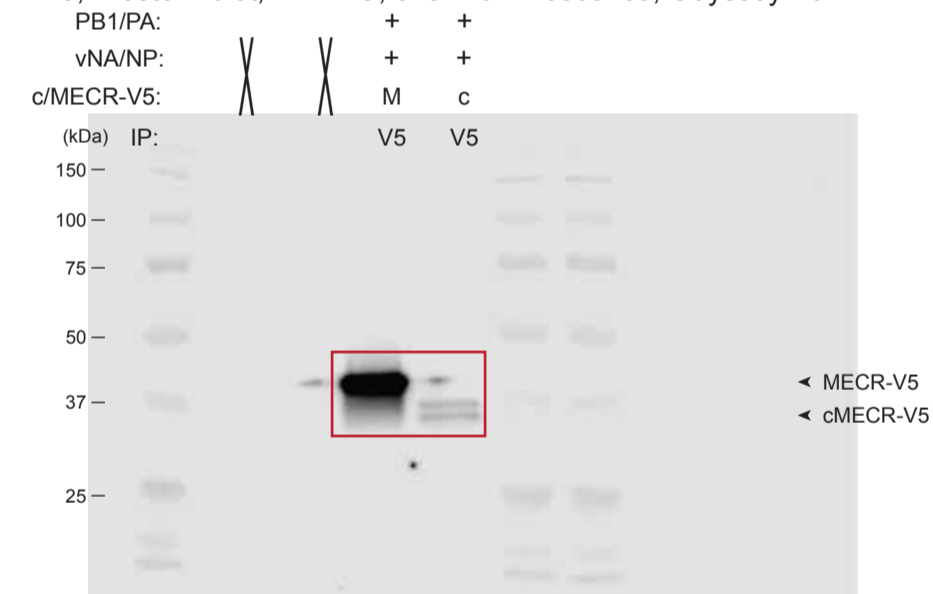
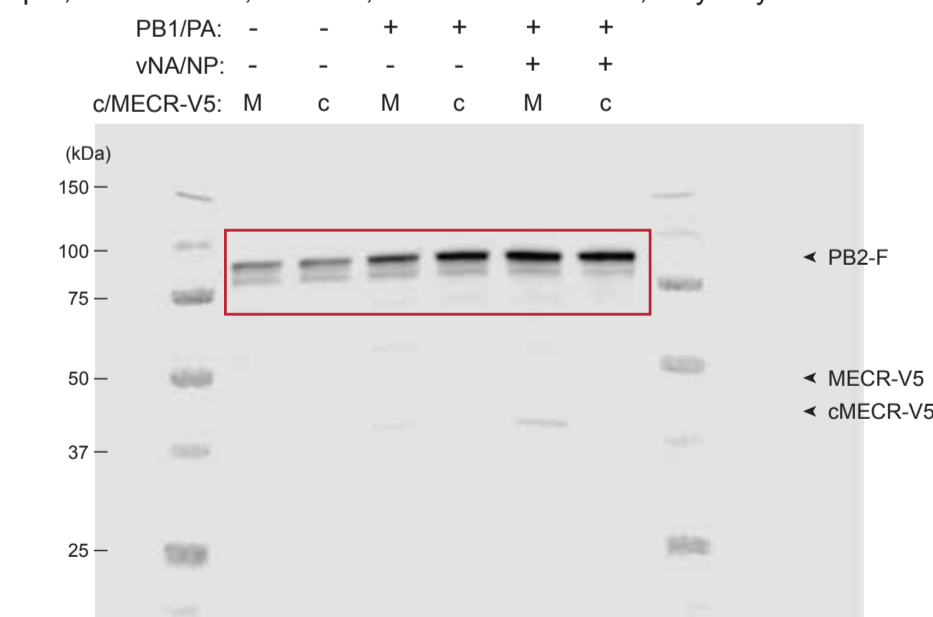
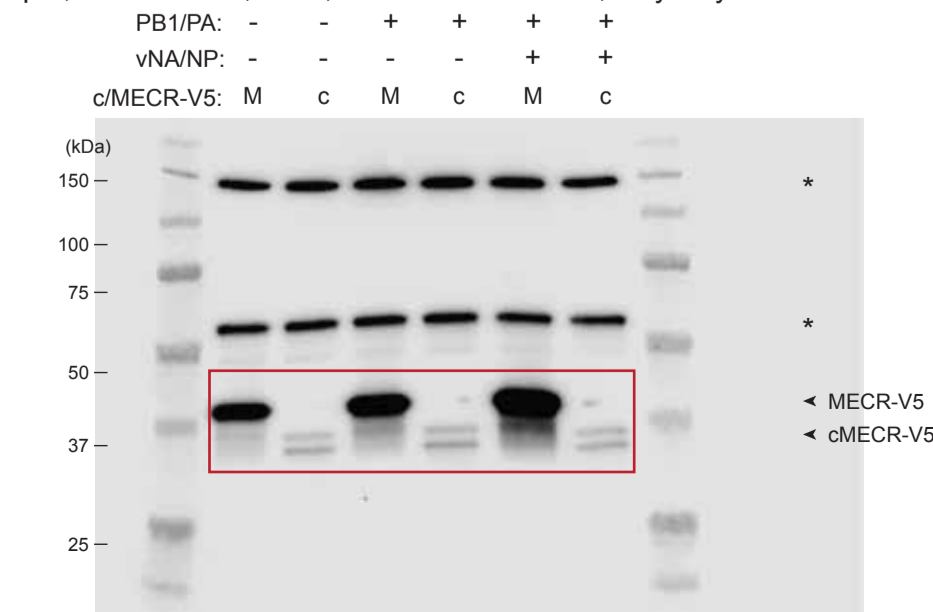
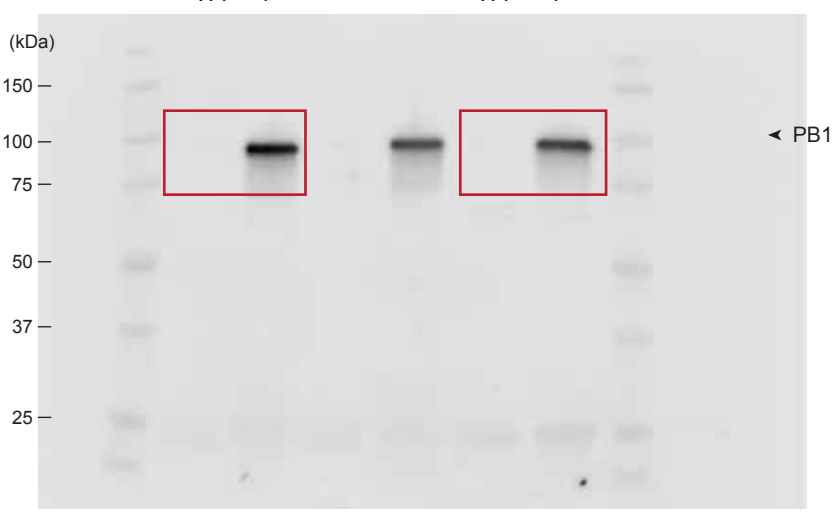
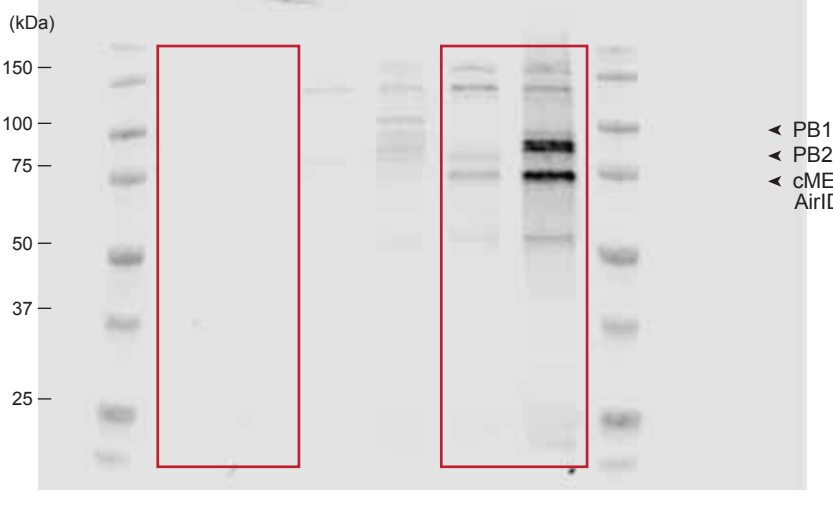
Fig. S5d (top)IP:V5, Western blot, α -FLAG, chemiluminescence, Odyssey Fc**Fig. S5d (top)**IP:V5, Western blot, α -FLAG, chemiluminescence, Odyssey Fc**Fig. S5d (top)**IP:V5, Western blot, α -V5, chemiluminescence, Odyssey Fc**Fig. S5d (top)**IP:V5, Western blot, α -FLAG, chemiluminescence, Odyssey Fc**Fig. S5d (bottom)**input, Western blot, α -FLAG, chemiluminescence, Odyssey Fc**Fig. S5d (bottom)**input, Western blot, α -V5, chemiluminescence, Odyssey Fc

Fig. S5f (left)IP:FLAG, Western blot, α -PB1, chemiluminescence, Odyssey Fc

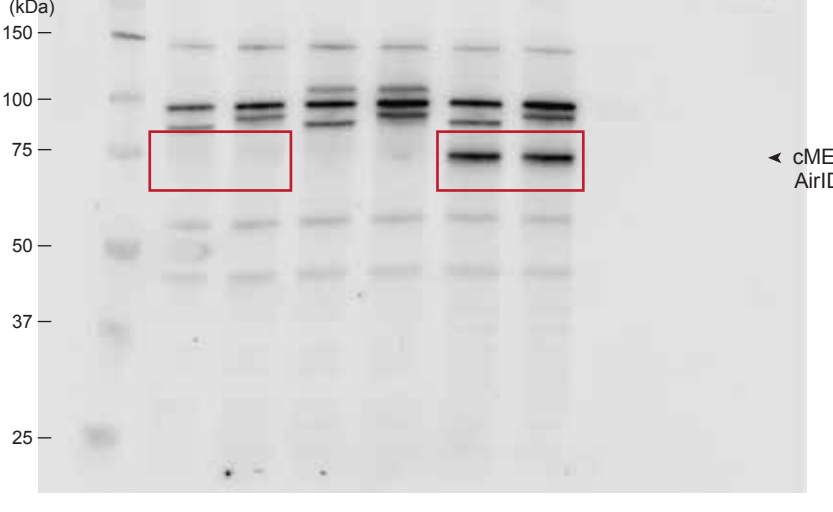
PB1/PA:	+	+	X	X	+	+
cMECR-AirID:	-	-	X	X	+	+
PB2:	WT	F			WT	F

**Fig. S5f (left)**IP:FLAG, Western blot, α -SA, chemiluminescence, Odyssey Fc

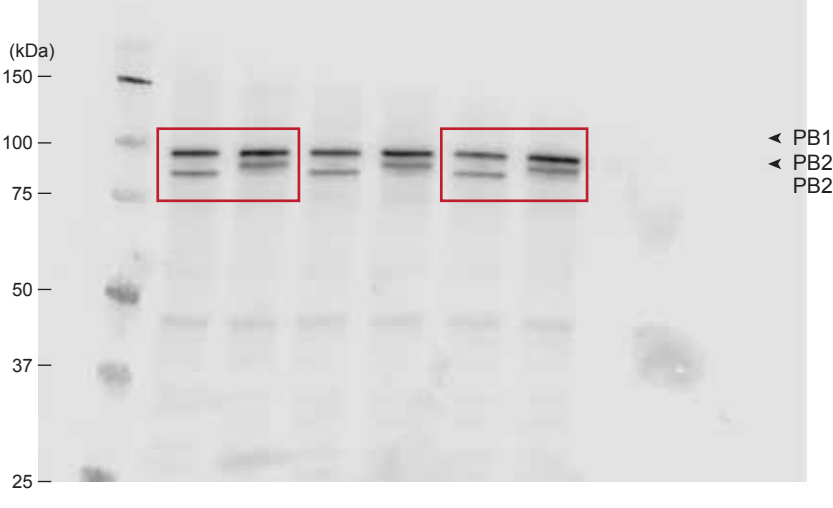
PB1/PA:	+	+	X	X	+	+
cMECR-AirID:	-	-	X	X	+	+
PB2:	WT	F			WT	F

**Fig. S5f (right)**input, Western blot, α -V5, chemiluminescence, Odyssey Fc

PB1/PA:	+	+	X	X	+	+
cMECR-AirID:	-	-	X	X	+	+
PB2:	WT	F			WT	F

**Fig. S5f (right)**Input, Western blot, α -PB1/PB2, chemiluminescence, Odyssey Fc

PB1/PA:	+	+	X	X	+	+
cMECR-AirID:	-	-	X	X	+	+
PB2:	WT	F			WT	F

**Fig. S5f (right)**Input, Western blot, α -SA, chemiluminescence, Odyssey Fc

PB1/PA:	+	+	X	X	+	+
cMECR-AirID:	-	-	X	X	+	+
PB2:	WT	F			WT	F

