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)







Fig. 3c (top)

IP:IgG/V5, Western blot, α -RNP, chemiluminescence, Odyssey Fc



Fig. 3c (top)

IP:IgG/V5, Western blot, $\alpha\text{-V5},$ 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 PB2-F: + + + +



Fig. 3c (bottom)







Fig. 3d (top)

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



Fig. 3d (bottom)

input, Western blot, $\alpha\mbox{-FLAG},$ chemiluminescence, Odyssey Fc



Fig. 3d (bottom)



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

	50							
MECR: WT	het	KO	Х	Х	Х	Х	Х	Х
(kDa)								
150 —								
100 —								
75 — •••••								
50 —			-					-
37 - 🐜	-		-	-				✓ MECR
25-14								
15 —								
× .								

Fig. 4d (bottom)

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



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/V	/5, W	/esterr	ı blot,	α-FLA	AG, cl	hemilu	Imine	scenc	e, Ody	ssey Fc
c/ME	ECR:	Μ	Μ	Μ	Μ	С	С	С	С	
infec	ction:	-	-	+	+	-	-	+	+	
	IP:	lgG	V5	lgG	V5	lgG	V5	lgG	V5	
(kDa) 150 —	e .									
100 —	- F					_		_		
75 —	in a		-			-	-		-	 PB1-FLAG PB2-FLAG
50 —	1									
37 —										
		1.4								
25 -										
20										

Fig. 5d (top)



Fig. 5d (bottom)

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



Fig. 5d (bottom)





Fig. 5e (top)

IP·m	Ch W	ostorr	n hlat	a-EL	AG ch	omilu	mines	ance	Od		/ Fc	
		colen		, u-i L <i>i</i>	-0, ci	lennie	mines	CIICC	, Ou	yssey	r i c	,
	PB1/PA	: -	-	-	+	+	+	+	+	+		
	cNA/NF	P: -	-	-	-	-	-	+	+	+		
c/ME	CR-mCh	: mCh	Μ	сM	mCh	Μ	сM	mCh	Μ	сM		
	(kDa)											
1	50 —											
1	00 —			-						-	≺ F	PB1-F
	75			_			-			-	≺ F	PB2-F
	75-	L										
	50 —											
	37 —											
		-			-			-			≺ r	nCh
	25 —											

Fig. 5e (top)



Fig. 5e (top)





Fig. 5e (bottom)

input	, Weste	rn blo	t, α-F	LAG,	chemi	ilumin	escen	ice, O	dysse	ey Fc		
	PB1/PA:	-	-	-	+	+	+	+	+	+		
	cNA/NP:	-	-	-	-	-	-	+	+	+		
c/ME	CR-mCh: (kDa) 150 —	mCh	Μ	сМ	mCh	М	сМ	mCh	М	сМ		
	100 —	_	_	_	=	-	-	-	_	_		81_F
	75 —	-	-	-	100	100	-		_	-	< PE	32-F
	50 —											
	37 —											
	57 -											
	05											
	25 -											

Fig. 5e (bottom)

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

PB1/PA:	-	-	-	+	+	+	+	+	+	
cNA/NP:	-	-	-	-	-	-	+	+	+	
c/MECR-mCh: (kDa) 150 —	mCh	Μ	сМ	mCh	Μ	сМ	mCh	Μ	сМ	
100 —	_	-		=	=	-	-	-	_	PB1-F
75 —				-	100	117		_	-	¢ PB2-F
							-			
50 —							-	-	-	(NP
27								+	-	1
57 -										
	-			-						c mCh
25 —										
1941										

Fig. 5e (bottom)



Fig. 6b (top left)

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)





Fig. 6b (bottom left)

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

3P/vNA-GFP:	+	+	+	+



Fig. 6b (bottom left)

IP:V5, Western blot, $\alpha\text{-V5},$ chemiluminescence, Odyssey Fc



Fig. 6b (bottom left)

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



Fig. 6b (right)

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

3P/vNA-GFP:	+	+	+	+	
NP-V5:	-	+	+	+	
c/MECR-mCh:	-	mCh	М	сM	
(kDa)				2	



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)

3P/vNA-GFP:	+	+	+	+	
NP-V5:	-	+	+	+	
c/MECR-mCh:	-	mCh	М	сМ	
(kDa)					
150 —					
100 —					



< GFP

Fig. 6c (top)



Fig. 6c (top)

The support is

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

H NP-	PB1/PA/ √5/vNA:	+	+	+		
	PB2:	WT	F	F		
CME (kDa) 150 —	CR-V5:	-	-	+		
100 —	100					
75 —	anite .					
50 —			-	-	≺ NP-V5	5
37 —	100					
25 —	1					

Fig. 6c (bottom)

input, Western blot, α -PB1/PB2, chemiluminescence, Odyssey Fc



Fig. 6c (bottom)



Fig. 6f (#1 from top)



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)



Fig. S5d (top)

IP:V5, Western blot, α -FLAG, chemiluminescence, Odyssey Fc PB1/PA: + +



Fig. S5d (top)

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



Fig. S5d (top)

IP:V5, Western blot, α -FLAG, chemiluminescence, Odyssey Fc PB1/PA: + + 11 11



Fig. S5d (bottom)



< MECR-V5

cMECR-V5



Fig. S5d (bottom)





Fig. S5f (left)



Fig. S5f (right)



Fig. S5f (right)



Fig. S5f (right)

