

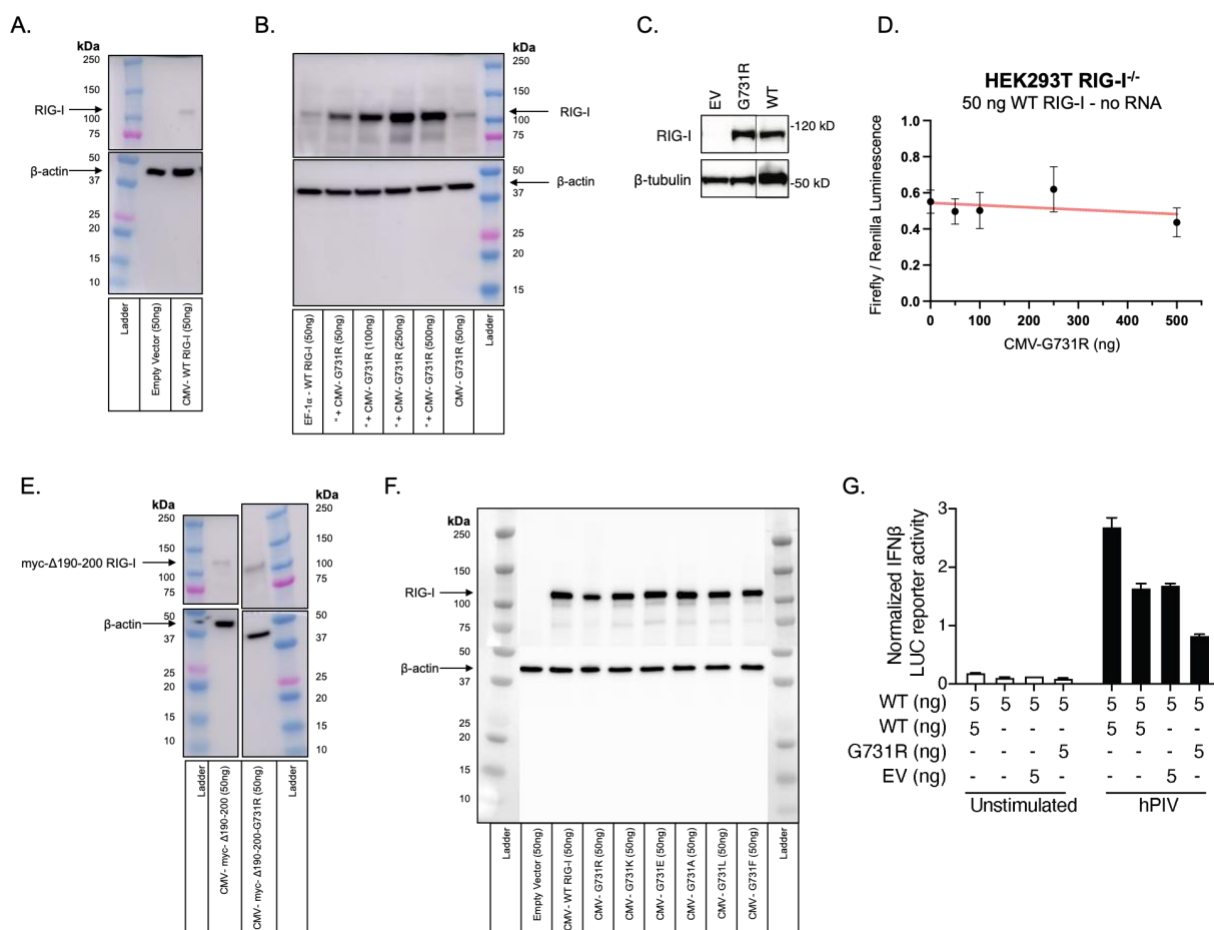


Figure S1. IFN-β reporter assay western blots and control

Western blot corresponding to IFN-β reporter assay in HEK293T RIG-I^{-/-} cells for transient expression of (A) CMV- WT RIG-I, (B) EF1-α- WT RIG-I and competing CMV-G731R, (E) CMV-myc-Δ190-200 constructs, and (F) CMV-G731X mutants relative to β-actin. Panels (A) is related to data in Figure 2G, (B) is related to Figure 3F, (E) is related to Figure 6, and (F) is related to Figure 8.

(C) Immunoblot assessing expression of RIG-I WT and G731R, corresponding to Figure 2H. Cell lysates from transfections with empty vector (EV), RIG-I WT, or RIG-I G731R were resolved on the same gel. A section of the gel between the WT and G731R lanes was removed, as indicated by the black line.

(D) IFN-β response of constitutively expressed WT RIG-I under EF1α promoter measured by dual luciferase reporter assay in the absence of RNA, while titrating G731R plasmid, related to data in Figure 3. Each condition was performed three times (independent RNA transfections, n=3). The plot shown shows the mean values at each protein concentration,

with error bars representing the standard error of the mean (SEM), and the curve shows the hyperbolic decay fit to the mean data.

(G) Cells were co-transfected with WT RIG-I (5 ng) and an equal amount (5 ng) of WT RIG-I, G731R RIG-I, or empty vector (EV) plasmids, and then either left unstimulated or infected with hPIV. IFN β -driven Firefly luciferase reporter activity for each condition was normalized to *Renilla* luciferase. Data show means $\pm$ SD of 2 technical repeats for one representative experiment. Related to Figure 3H.

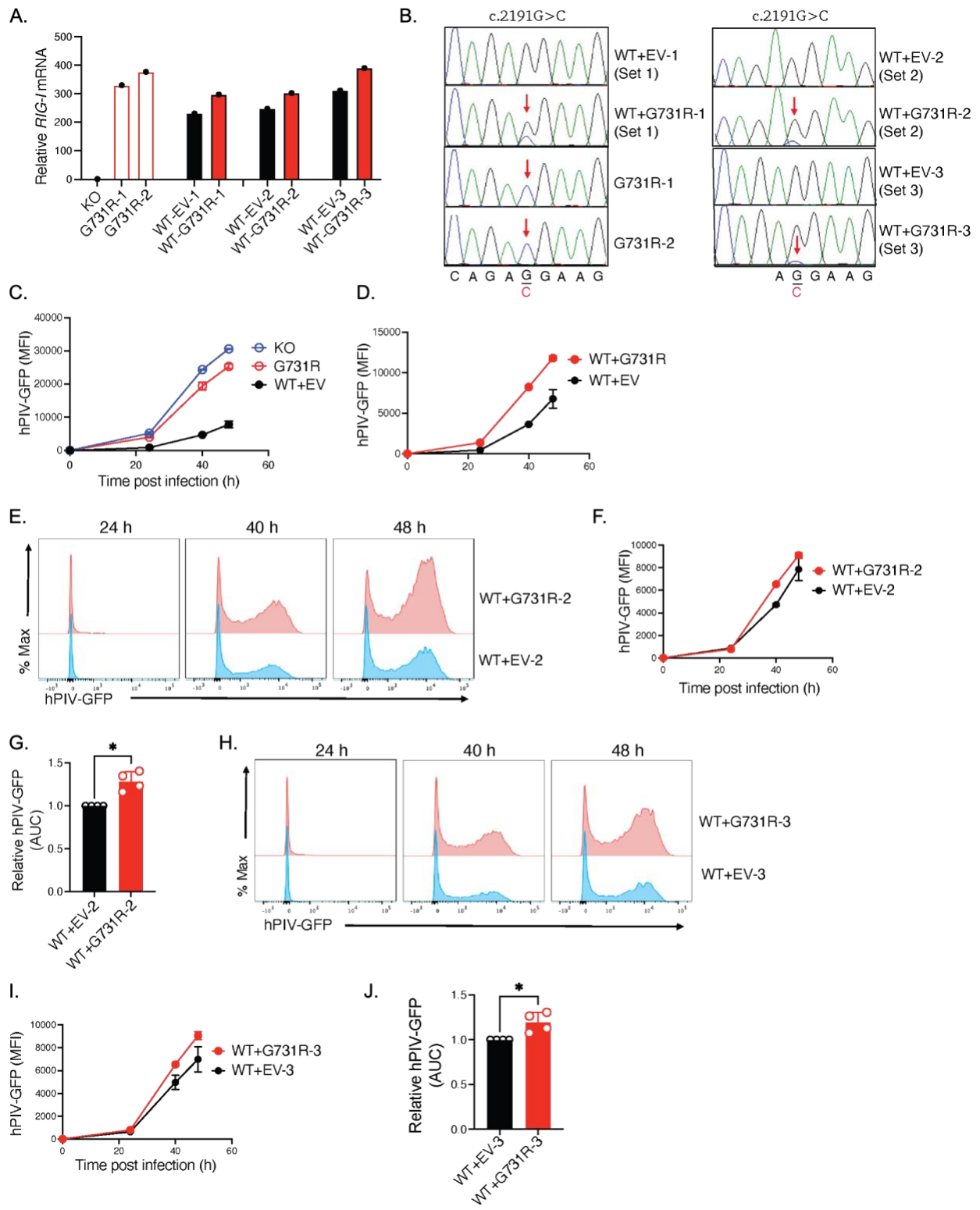


Figure S2. G731R RIG-I interferes with the ability of WT RIG-I to restrict hPIV replication in vitro.

(A) For the KO or transduced cell lines generated as described in Figure 3, expression of *RIGI* mRNA was quantified by qRT-PCR, normalized to *ACTB* and shown relative to that of KO cells. Two sets of independently transduced G731R cells were generated. Three sets of independently transduced WT+G731R or WT+EV cells were generated in parallel.

(B) Sanger dideoxy sequencing chromatograms of cDNA from the generated cell lines at the variant site. Set 1 of WT+G731R and WT+EV was used in Figure 3. In WT+G731R cells, WT *RIGI* was overexpressed compared to mutant *RIGI*.

(C) GFP mean fluorescence intensity (MFI) over time in RIG-I KO fibroblasts alone, or transduced either with RIG-I G731R or WT plus EV (WT+EV) for a representative experiment corresponding to Figure 3C.

(D) GFP mean fluorescence intensity (MFI) over time in human primary RIG-I KO fibroblasts transduced with WT RIG-I plus G731R (WT+G731R) or WT RIG-I plus EV (WT+EV) (Set 1), corresponding to Figure 3E.

(E-G) Human primary fibroblasts transduced with WT+G731R or WT RIG-I WT+EV (Set 2) were infected with GFP-tagged hPIV (MOI 0.2) for 24 to 48 h. Representative flow cytometry plots of hPIV-infected cells (E), with corresponding GFP MFI over time (F). hPIV infection was quantified by AUC of GFP MFI and shown relative to that of WT+EV cells in each individual experiment (G).

(H-J) Similar to (E-G), but experiments were performed using WT+G731R or WT+EV cells (Set 3). Data for WT+EV shown in panels (G) and (J) were used for panel (D) in Figure 3E in simultaneously run experiments. Statistical analyses were performed using one-sample t-test (G and J). * $P < 0.05$.

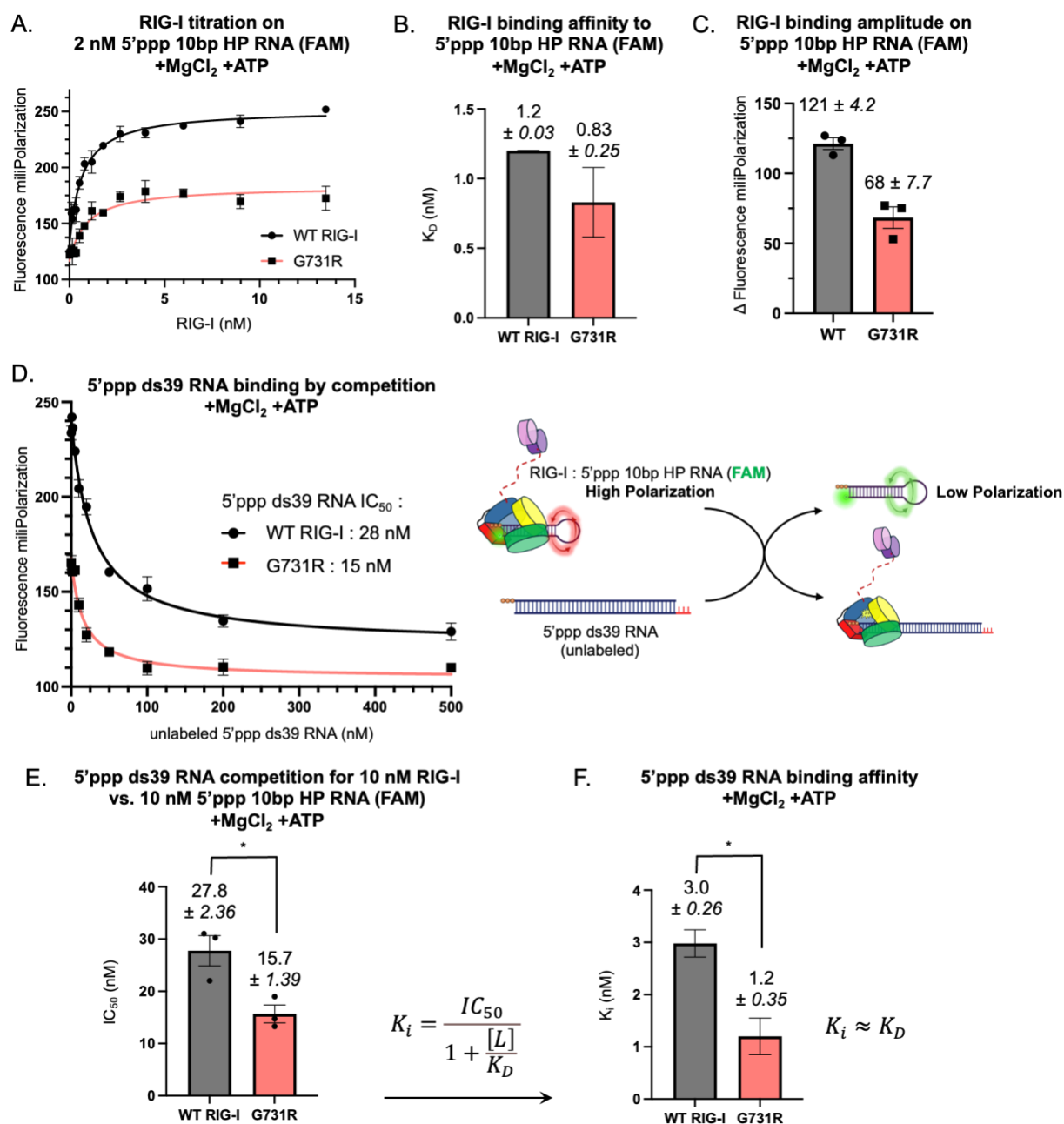


Figure S3. Fluorescence-based RNA binding measurements related to RNA binding data in Figure 3B.

(A) Fluorescence polarization (FmP) of fluorescein-labeled 5'ppp 10bp HP RNA in the presence of increasing protein concentration (biological replicates, n=3). The RNA binding data were fit to equation 2 to obtain the FmP amplitude and the RNA K_D values.

(B) 5'ppp 10bp HP RNA binding affinity (K_D) measured by changes in fluorescence polarization while titrating RIG-I against constant 2 nM RNA. Error bars represent the standard error of the mean (biological replicates, $n=3$).

(C) The FmP amplitude values from experiments in panel A are compared (biological replicates, $n=3$).

(D) 5'ppp ds39 RNA binding to WT or G731R was measured by competition assay. Fluorescence polarization of FAM-labeled 5'ppp 10bp HP RNA (10 nM) bound to RIG-I or G731R (10 nM) was measured while titrating in increasing unlabeled 5'ppp ds39 RNA. The data were fit to equation 1 to obtain the half maximal inhibitory concentration IC_{50} . Error bars represent the standard error of the mean (biological replicates, $n=3$).

(E) 5'ppp ds39 RNA competition (IC_{50}) for RIG-I displacement from 5'ppp 10bp HP RNA as monitored by changes in fluorescence polarization while titrating 5'ppp ds39 RNA against 10 nM equimolar RIG-I-bound 5'ppp 10bp HP RNA (FAM). Error bars represent the standard error of the mean (biological replicates, $n=3$).

(F) Cheng-Prusoff equation is used to obtain 5'ppp ds39 RNA K_i values, which are representative of RIG-I's binding affinity for 5'ppp ds39 RNA (K_D). Error bars represent the propagated standard error of the means. Statistical analysis was performed using unpaired t-test. *, $P<0.05$.

Consolidated HDX differential peptide coverage

Δ HDX							
Domain	Feature	Peptide Sequence	Start Residue	End Residue	wt RIG-I ± 5'ppp 10bp HP RNA	apo G731R vs. WT RIG-I	G731R ± 5'ppp 10bp HP RNA
CARD1 (1-91)		FQDYIRKTLDPITYIL	11	25	15 (4)	2 (3)*	-17 (2)
		FQDYIRKTLDPITYLS	11	26	15 (4)	-1 (2)*	-21 (3)
		YIRKTLDPITYIL	14	25	15 (5)	2 (2)*	-20 (3)
		SYMAPIWFREEVQ	36	36	17 (4)	1 (2)*	-30 (3)
		YQAEKNNKQPMEEATL	39	55	11 (4)	-5 (3)	-28 (3)
		LKFLLE	57	62		0 (1)*	2 (2)*
		QEEGWFRGFLDA	64	75	13 (5)	-8 (2)	-17 (3)
		DALDHAGYSGSL	74	84	8 (2)	-6 (3)	-22 (4)
		DALDHAGYSGSL	74	84	12 (3)	-6 (3)	-21 (4)
		YEAIESWD	85	92	16 (5)	2 (3)*	-28 (4)
CARD2 (92-185)	CARD2:Hel2i latch (100-115)	FKKIELEE	93	101	-4 (7)*	-5 (3)	-40 (3)
		YRLL	102	106	11 (3)	6 (3)	
		KRLQPEF	107	113	8 (4)	6 (2)	-27 (3)
		KTRIPTDNGDL	114	126	17 (4)	1 (3)*	-33 (3)
	CARD2:Hel2i latch (145-150)	KTRIPTDNGDL	114	126	17 (3)	-2 (3)*	-38 (2)
		LINQEE	130	137		-2 (3)*	-31 (5)
		ILQICSTKGMMAQAEKLV	138	156	22 (3)	2 (2)*	-19 (4)
		ILQICSTKGMMAQAEKLV	138	156	16 (4)	2 (1)*	-14 (3)
		LRGDKENWPKTLKAL	159	174	22 (8)	3 (2)*	-30 (2)
		LRGDKENWPKTLKAL	159	174		3 (2)*	-29 (4)
ID Linker (185-244)	Electrostatic gate (190-220)	ALEKERNKFSLE	173	184	8 (4)	1 (3)*	-37 (5)
		WVVEKQIKQVETEDL	185	199	2 (4)*	-8 (2)	-57 (5)
		WVVEKQIKQVETEDLEDKMETSQ	185	207	1 (2)*		-46 (6)
		EDKMETSQIGF	200	211	4 (6)*		-25 (3)
	RNA binding motifs	YQEDPEQNL	212	221	3 (4)*	-8 (3)	-54 (7)
		SENSCRPSEVSDTNL	222	236	4 (4)*	-7 (2)	-80 (4)
		VSQTNL	231	236	2 (3)*	-15 (3)	-88 (5)
		YSFPRRN	237	244	0 (3)*	-12 (2)	-88 (4)
		YSFPRRNYYQLE	237	246	0 (6)*		-55 (4)
		LALPAMGGKNTICAPTGGKTFVSL	249	274	-1 (3)*	-3 (2)*	-33 (2)
Hel1 (244-455)	motif Ia (300-330)	TICAPTGGKTF	259	271	2 (5)*	-5 (1)*	-58 (4)
		LICEHLKKFQGGKGVVF	275	294		-1 (1)*	-23 (2)
		FANQIPVYE	295	303	-16 (4)	-11 (3)	
		FERHGYRVTVGSGATAENVPVEQ	313	335	-3 (6)*	-4 (2)*	-54 (4)
	motif Ib (340-370)	FERHGYRVTVGSGATAENVPVEQ	313	335	-2 (7)*	-5 (1)*	-37 (2)
		VENND	336	341	-2 (2)*	1 (2)*	-7 (3)
		MLTPQIL	342	350	-9 (4)	3 (2)*	-7 (3)
		MLTPQILVNNLKGGTIPSL	342	362	-12 (5)	-1 (2)*	-36 (3)
	motif IIa (370-390)	VNNLKGGTIPSLIF	351	365	-7 (4)	-2 (2)*	-36 (3)
		MFDECHNTSKQHPYNNM	366	384	-9 (4)	-1 (2)*	-22 (2)
Hel2 (245-469)...	Insertion domain linker	MFDECHNTSKQHPYNNM	366	386	-7 (3)	2 (1)*	-20 (2)
		DECHNTSKQHPYNNM	371	386	-9 (4)	0 (1)*	-27 (3)
		FNVLDDKLGSSGRLPQVGL	387	407	0 (2)*	2 (1)*	-22 (2)
		FNVLDDKLGSSGRLPQVGL	387	407	0 (2)*	2 (1)*	-20 (2)
	RNA binding region (505-520)	IASVGVDGAHNTDEAL	408	423	-4 (3)*	-2 (3)*	
		DYICKL	424	429		3 (2)*	2 (5)*
		QASVIATVKHNLEEL	434	448	0 (3)*	0 (3)*	-8 (2)
		SVIATVKHNLEEL	436	448	-1 (4)*	1 (3)*	-12 (2)
		LEQVVYKPKKF	448	458	-4 (5)*	-2 (3)*	-41 (5)
		LEQVVYKPKKF	448	458	-3 (5)*	1 (3)*	-36 (4)
Hel2i (470-607)	CARD2/CTD :Hel2i latch (520-540)	EQVVYKPKKF	449	458	-4 (5)*	0 (3)*	-28 (3)
		FRKVESRISCKFKYIAQL	459	477		-1 (2)*	-20 (2)
		MRDTESLAKRICKLENL	478	495		-2 (2)*	-13 (3)
		AKRICKLENL	485	495	-7 (5)	-2 (3)*	-21 (5)
	CARD2:Hel2i latch (565-580)	SGIQNREFGTQKYEQW	496	511	-4 (4)*	0 (2)*	-43 (4)
		NTVOKACM	512	520	-2 (2)*	-7 (2)	-3 (4)*
		NTVOKACM	512	520	-1 (5)*		-1 (2)*
		VFGMPDKDEESRICKA	521	526	-12 (5)	-4 (3)*	-31 (3)
	CARD2:Hel2i latch (565-580)	VFGMPDKDEESRICKA	521	526	-10 (4)	-1 (3)*	-29 (3)
		VFGMPDKDEESRICKALF	521	526	-8 (4)	-2 (2)*	-22 (3)
		LYTHLRKYNDAL	529	551	0 (1)*	2 (1)*	2 (2)*
		DALISEHARMKD	549	561	1 (3)*	0 (1)*	-6 (2)
	CARD2:Hel2i latch (565-580)	HARMKDALD	556	564	8 (58)	-1 (1)*	-12 (3)
		HARMKDALD	556	564	0 (48)	-1 (1)*	-14 (4)
		YLKIDFFSNVRAAGF	565	576	10 (3)	-1 (2)*	-25 (3)
		ESVSRDPSNENPKLED	597	612	1 (4)*	-3 (2)*	-28 (3)

Consolidated HDX differential peptide coverage (cont.)

Domain	Feature	Peptide Sequence	Δ HDX				
			Start Residue	End Residue	wt RIG-I ± 5'ppp 10bp HP RNA	apo G731R vs. WT	G731R ± 5'ppp 10bp HP RNA
Hel2 (608-743)	RNA binding motifs	VSRDPSENENPKLEDLCF	599	615	-2 (3) ^a	-1 (3) ^a	-24 (2)
		FILOEEYHLNPET	615	627	0 (4) ^a	-2 (2) ^a	-10 (2)
		ILQEEYHLNPET	616	627	-1 (2) ^a	-1 (2) ^a	-13 (2)
	motif IV (630-695)	VKTRALVDALKN	633	644	-7 (2)	-3 (1) ^a	-15 (3)
		ALKNWIEGNPKL	641	652	1 (3) ^a	-2 (2) ^a	-13 (2)
		ALKNWIEGNPKL	641	652	1 (3) ^a	-1 (2) ^a	-12 (2)
		SFLKPGIL	653	660	-8 (2)	1 (2) ^a	-18 (3)
		TGRGKTNGNTQMTLPQKKIL	661	681	-8 (4)	-11 (2)	-81 (3)
		DAFKASGDHNL	662	693	-9 (2)	0 (2) ^a	-52 (4)
		DAFKASGDHNL	662	693	-9 (3)	-5 (2) ^a	-42 (3)
		FKASGDHNL	684	693	-8 (3)	0 (2) ^a	-35 (3)
		FKASGDHNL	684	693	-8 (3)	0 (2) ^a	-34 (2)
	motif V (695-720)	IATSVADEGID	694	704	-14 (3)	-5 (2) ^a	-41 (5)
		IATSVADEGID	694	704	-12 (4)	-4 (2) ^a	-35 (3)
		IACQNL	705	710	-7 (4)	-3 (3) ^a	-40 (3)
		VILYE	711	715	-1 (1) ^a	1 (2) ^a	-2 (3) ^a
		YEEYVGNVKKM	714	723	-14 (4)	-4 (3) ^a	-38 (3)
	Pincer (744-803)	FLITSNA	736	744	-8 (5)	-6 (1)	-30 (3)
		LTSNAGVIEKGNM	740	754	-3 (4) ^a	-8 (2)	-19 (4)
		YKEKMMNDSIL	755	765	0 (1) ^a	5 (2) ^a	-7 (2)
		QTNWDEAVF	766	775	-1 (3) ^a	-1 (2) ^a	-41 (4)
		WDEAVF	770	775	1 (2) ^a	-1 (3) ^a	-18 (2)
CTD (804-925)		VRVIECHY	822	830	-2 (4) ^a	-2 (1) ^a	-14 (2)
		TVLGDA	831	836	0 (3) ^a		-30 (3)
		TVLGDAFKECF	831	841	-2 (4) ^a	0 (2) ^a	
	5' capping loop (840-860)	VSRPHKPKQFSSF	842	855		-8 (1)	-80 (3)
		CARQNCSDHWGHWKYKTFEIPVIESF	863	891		-1 (1) ^a	-9 (3)
	RNA binding region (880-905)	VVEDIATGVQTL	892	903	-11 (3)	-6 (2)	-20 (3)
		DIATGVQTL	895	903	-10 (3)	-8 (2)	-20 (5)
		YSKWKDFHF	904	912		-6 (2)	-33 (3)
		EKIPFPAEMSK	913	924	-2 (3) ^a	-7 (2)	-35 (5)
		EKIPFPAEMSK	913	924	-1 (4) ^a	-7 (2)	-53 (3)

Figure S4. Annotated mapping of consolidated HDX differential peptide coverage related to data in figure 4.

Chart summarizing the differential HDX patterns of specific peptides of RIG-I from each experimental condition, annotated by protein domain and functional features.

Figures S5-S10. Hydrogen-Deuterium Exchange Mass Spectroscopy sequence coverage heatmaps related to the data in Figure 4.

Time-consolidated HDX data is shown using a perturbation view from HDX Workbench (Scripps Research Institute, 2024). Individual peptides are represented by horizontal strips below their respective portions of the protein sequence, with values indicating percent deuterium uptake ± standard deviation. Individual peptides are colored according to the colorimetric perturbation key shown.



Figure S5. HDX sequence coverage for WT RIG-I apo (from G731R vs WT RIG-I experiment)



Figure S6. HDX sequence coverage for G731R apo (from G731R vs WT RIG-I experiment)

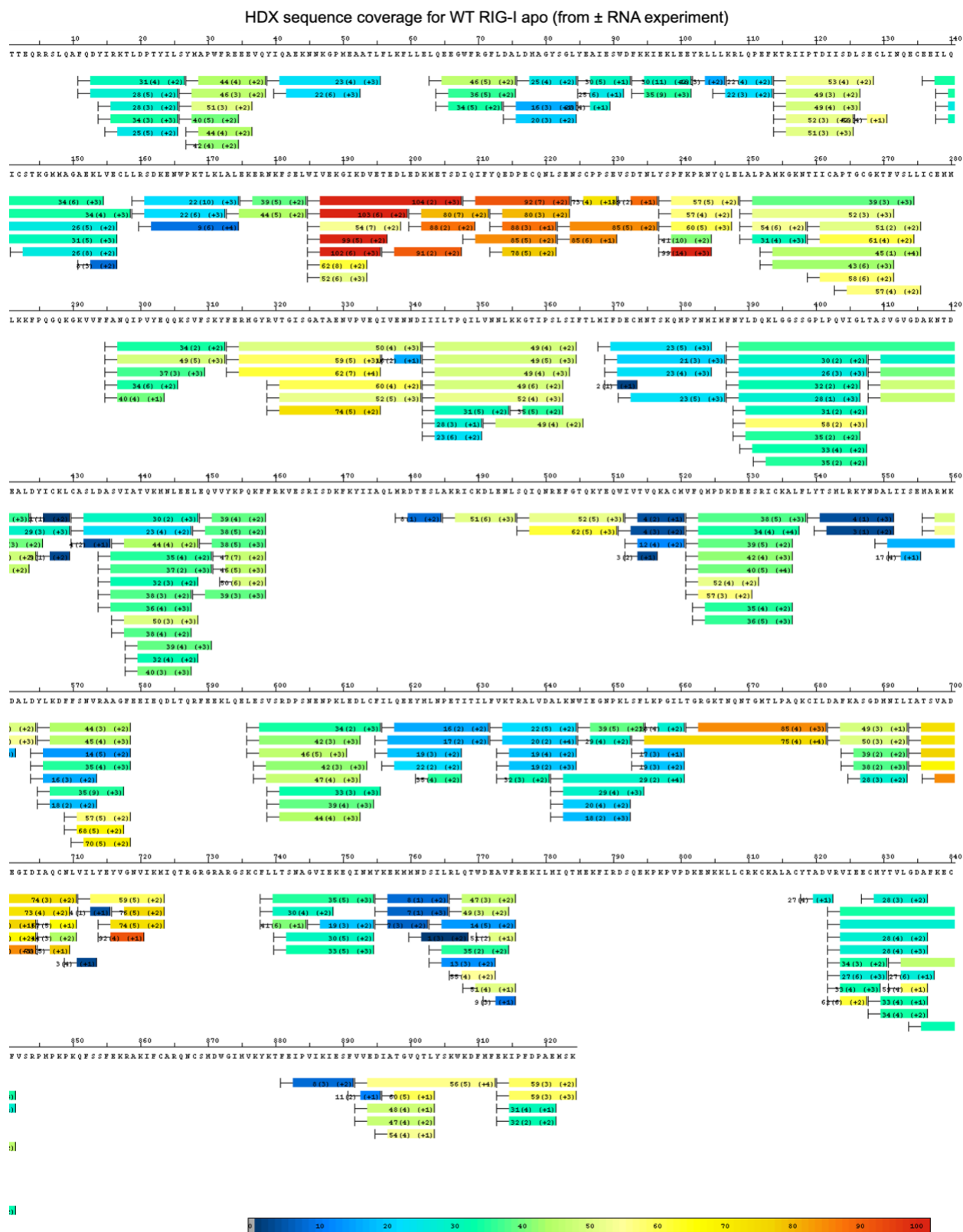


Figure S7. HDX sequence coverage for WT RIG-I apo (from $\pm$ RNA experiment)

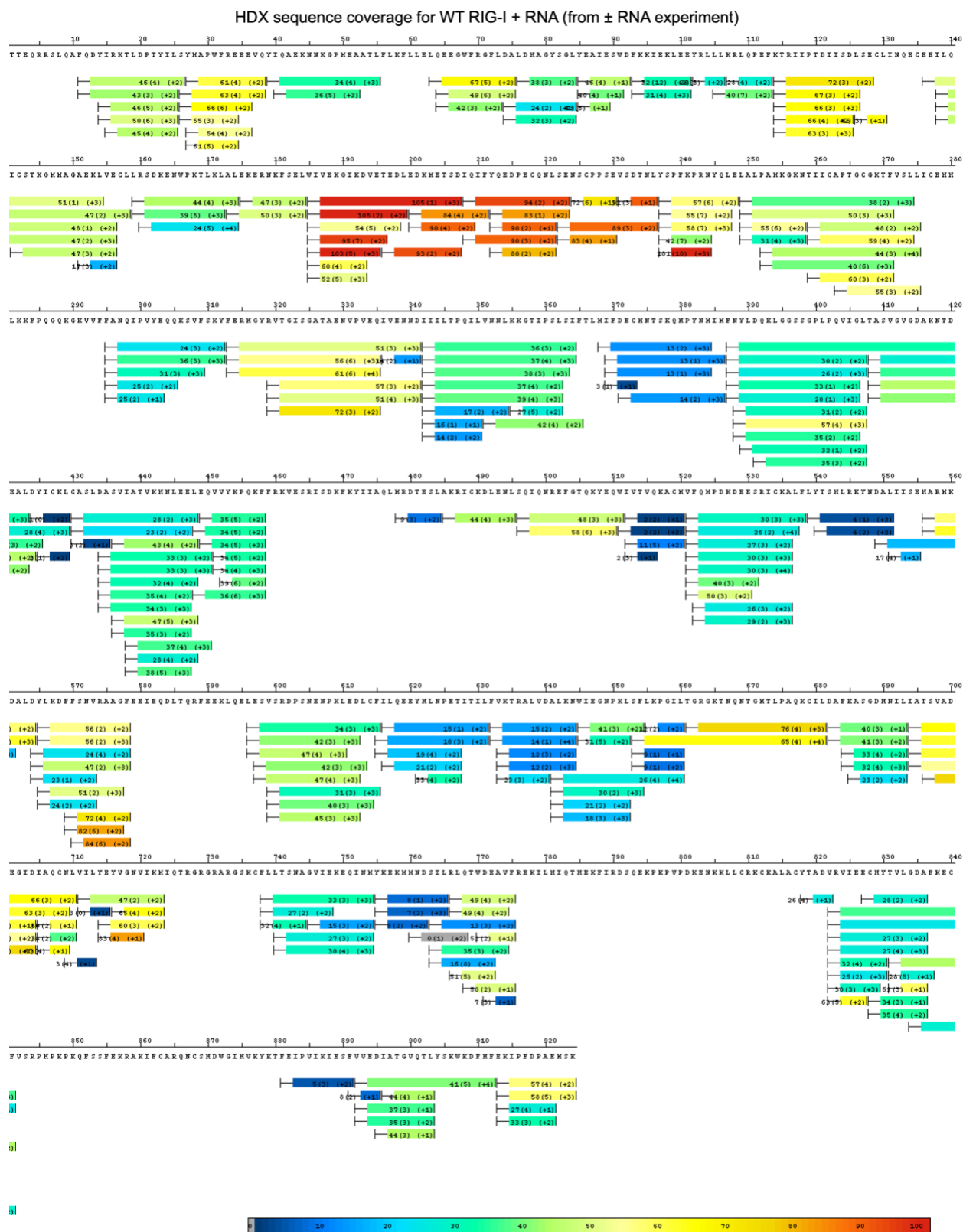


Figure S8. HDX sequence coverage for WT RIG-I + RNA (from $\pm$ RNA experiment)

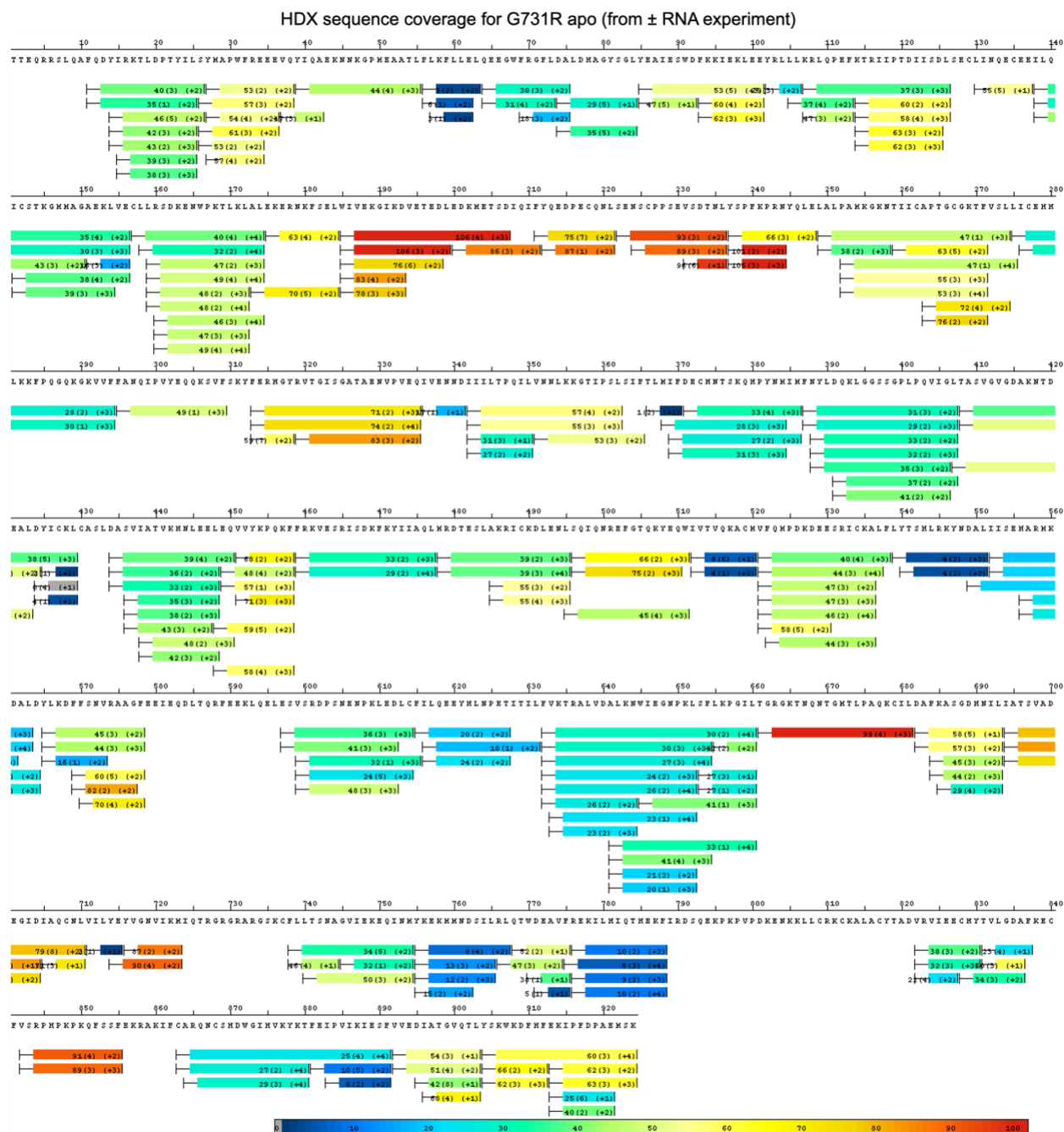


Figure S9. HDX sequence coverage for G731R apo (from $\pm$ RNA experiment)



Figure S10. HDX sequence coverage for G731R + RNA (from $\pm$ RNA experiment)

Data is representative of two biological replicates.

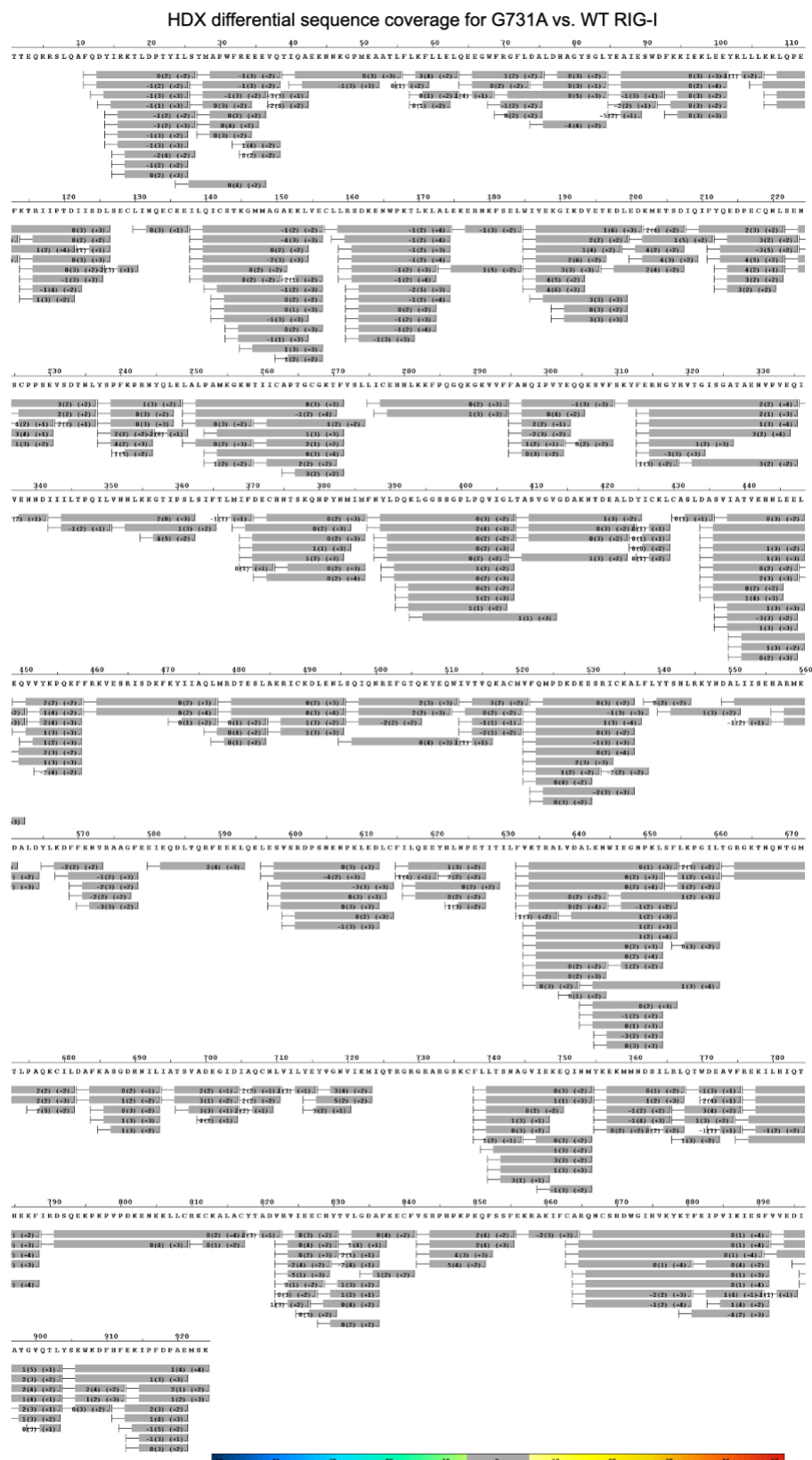


Figure S11. HDX differential sequence coverage for G731A vs. WT RIG-I



Figure S12. HDX differential sequence coverage for G731A ± RNA

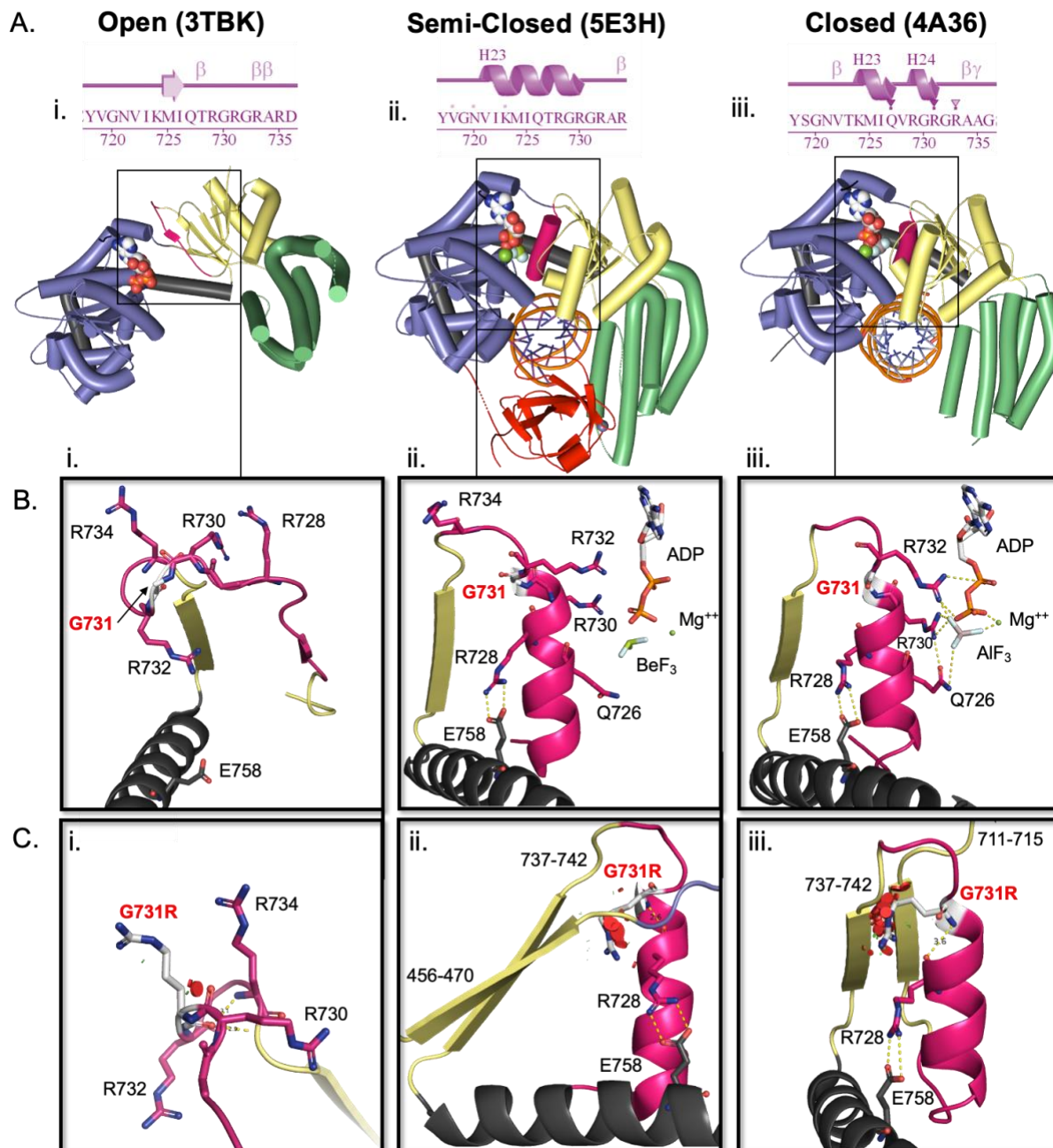


Figure S13. Conformational changes in RIG-I from open to closed states upon RNA binding

(A) PDBsum linear representation of secondary structure formation in motif VI (in pink) of (i) open mouse RIG-I helicases (PDB: 3TBK), (ii) semi-closed human RIG-I (PDB: 5E3H), and (iii) closed duck RIG-I helicases (PDB: 4A36). Below are front top views of RIG-I crystal structures captured in each conformational state. Structures are aligned by the Hel1 domain.

(B) Zoomed in view of each respective RIG-I structure showing the isolated motif VI and associated interactions in detail.

(C) PyMOL Mutagenesis Wizard analysis of G731R computational mutation in each respective structure. The red disks indicate pairwise overlap of atomic van der Waals radii.

Table S1: Whole Genome Sequencing analysis summary (see excel file)**Table S2:** RNA binding constants from fluorescence polarization experiments in Figures 3B and S2.

RNA	constant	WT RIG-I	G731R
5'ppp 10bp HP (FAM)	K_D	1.2 ± 0.03 nM	0.83 ± 0.25 nM
5'ppp ds39	IC_{50}	27.8 ± 2.4 nM	15.7 ± 1.4 nM
5'ppp ds39	K_i	3.0 ± 0.3 nM	1.2 ± 0.4 nM

Table S3: Kinetic parameters from RNA off-rate experiments in Figures 5 C-E.

	WT		G731R		
	CTD	Helicase	CTD	Helicase	
k_{off} (s ⁻¹)	0.141 ± 0.011	0.0045 ± 0.00006	0.147 ± 0.015	0.0062 ± 0.003	- ATP
Kinetic mode population (%)	75.1 ± 4.26	24.9 ± 4.26	92.4 ± 2.03	7.6 ± 2.03	
Kinetic mode lifetime (s)	7.1 ± 0.5	223 ± 2.8	6.7 ± 0.7	198 ± 76.0	
R ²	0.9829 ± 0.01123		0.9814 ± 0.01063		
k_{off} (s ⁻¹)	0.128 ± 0.012	0.0105 ± 0.001	0.137 ± 0.010	0.0096 ± 0.006	+ ATP
Kinetic mode population (%)	76.7 ± 0.99	23.3 ± 0.99	95.2 ± 0.74	4.8 ± 0.74	
Kinetic mode lifetime (s)	7.9 ± 0.7	96 ± 10.9	7.4 ± 0.5	176 ± 127	
R ²	0.9875 ± 0.007793		0.9822 ± 0.007674		

Table S4: Computational predictions and experimentally determined biochemical impacts of selected G731 missense mutations.

Genomic DNA change	cDNA change	Protein variant	Original	Nucleotide changed	CADD score	AlphaMissense score	AlphaMissense class	MAF in gnomAD	IFN β reporter activity (relative to WT)
Chr9:32466433C>G	c.2192G>C	p.Gly731Ala	GGA	GCA	24.2	0.308	likely_benign	0	GOF
Chr9:32466433C>T	c.2192G>A	p.Gly731Glu	GGA	GAA	25.7	0.97	likely_pathogenic	6.24E-07	LOF
Chr9:32466434C>G	c.2191G>C	p.Gly731Arg	GGA	CGA	25.5	0.973	likely_pathogenic	Novel (this report)	LOF
Chr9:32466434C>T	c.2191G>A	p.Gly731Arg	GGA	AGA	25.7	0.973	likely_pathogenic	0	LOF
Chr9:32466433C>A	c.2192G>T	p.Gly731Val	GGA	GTA	25.3	0.836	likely_pathogenic	0	Not tested
	-	p.Gly731Leu	GGA	CTA	-	0.926	likely_pathogenic	-	GOF
	-	p.Gly731Phe	GGA	TTT	-	0.983	likely_pathogenic	-	Partial LOF
	-	p.Gly731Lys	GGA	AAA	-	0.991	likely_pathogenic	-	LOF

Table S1: Whole Genome Sequencing analysis summary**Table S2:** RNA binding measurements of WT RIG-I and G731R by fluorescence polarization were determined from experiments shown in figures 3B and S2.**Table S3:** RNA unbinding measurements of WT RIG-I and G731R by stopped-flow fluorescence intensity were determined from experiments shown in figure 5 C,D,E.**Table S4:** Computational predictions and experimentally determined biochemical impacts of selected G731 missense mutations.

MAF: Minor Allele Frequency, CADD: Combined Annotation Dependent Depletion, LOF: Loss of Function, GOF: Gain of Function

Table S5: Oligonucleotides

5'ppp ss39 non-template ssDNA 5'- CAG TAA TACGAC TCA CTA TTA GTT GGT GGT TGT TGT GTG TTT GTG GTT GGT TTG TTT GG -3'	IDT
5'ppp ss39 template ssDNA 5'- GTC ATT ATG CTG AGT GAT AAT CAA CCA CCA ACA CAC AAA CAC CAA CCA AAC AAA CC -3'	IDT
5'ppp ss39 RNA 5'- AGU UGG UGG UUG UUG UGU GUU UGU GGU UGG UUU GUU UGG -3'	In vitro transcription
5'ppp 24Pal non-template ssDNA 5'- TAA TAC GAC TCA CTA TA GGA ACT TAT CTA TAG ATA AGT TCC -3'	IDT
5'ppp 24Pal template ssDNA 5'- mGmGA ACT TAT CTA TAG ATA AGT TCC TA TAG TGA GTC GTA TTA -3'	IDT
5'ppp 24Pal RNA 5' – GGA ACU UAU CUA UAG AUA AGU UCC – 3'	In vitro transcription
ss39 RNA complement (FAM) 5'- dT[Fam-dT]dT CCA AAC AAA CCA ACC ACA AAC ACA CAA CAA CCA CCA ACU -3'	Dharmacon
ss39 RNA complement 5'- dTdTdT CCA AAC AAA CCA ACC ACA AAC ACA CAA CAA CCA CCA ACU -3'	Dharmacon
5'ppp 10bp HP RNA (FAM)	TriLink
5'-pppGAAUAUAAUAGUGAUUAUUAUUAUUC[FAM]-3'	Biosynthesis
5'ppp s27 RNA	
5'-pppAUAGCUCCUGAUAGUUAGUAUCCAUCG-3'	
Complementary ss27 RNA (DY547)	Dharmacon
5'-Bi-CGAUGGAUACUAACUAUCAGGACGUAU[DY547]-3'	
ss26 RNA chi (for ds26 Stem RNA):	Dharmacon
5' dA dT dA dC dG UCC UGA UAG UUA GUA UC dC dA dT dC 3'	
ss26 RNA chi (3' FAM) (for ds26 Stem RNA):	Horizon Discovery
5' dC dG dA dT dG GAU ACU AAC UAU CAG GA dC dG (dT-FAM) dA 3'	
<i>RIG-I</i> crRNA-1, 5'-AATTCCCACAAGGACAAAAG-3'	IDT
<i>RIG-I</i> crRNA-2, 5'-AGGTTGTTTCAACAAGAATCTG-3	IDT
<i>RIG-I</i> crRNA-3, 5'-GGCATCCCCAACACCAACCG-3'	IDT
<i>IFNB1</i> RT forward primer 5'- AGGATTCTGCATTACCTGAAGG -3',	IDT
<i>IFNB1</i> RT reverse primer 5'- GGCTAGGAGATCTTCAGTTTCG -3'	IDT
<i>ACTB</i> RT forward primer 5'-ACCTTCTACAATGAGCTGCG-3'	IDT
<i>RIG-I</i> RT forward primer 5'- TGGCATATTGACTGGACGTG-3'	IDT
<i>RIG-I</i> RT reverse primer 5'-CACTGGCTTTGAATGCATCC-3	IDT

RIG-I G731R cDNA sequencing forward primer 5'- GATTGCCACCTCAGTTGCTG-3'	IDT
RIG-I G731R cDNA sequencing reverse primer 5'- TCCCATGTCTGAAGGCGTAA-3'	IDT
RIG-I G731R gDNA sequencing forward primer 5'- ACCAGCATTACTAGTCAGAAGGA -3'	IDT
RIG-I G731R gDNA sequencing reverse primer 5'- ACAGCTCAACTTTCCTGGGA -3'	IDT