

SUPPLEMENTAL INFORMATION

Molecular basis for the specific and multivariate recognitions of RNA substrates by human hnRNPA2/B1

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SUPPLEMENTAL FIGURE LEGENDS

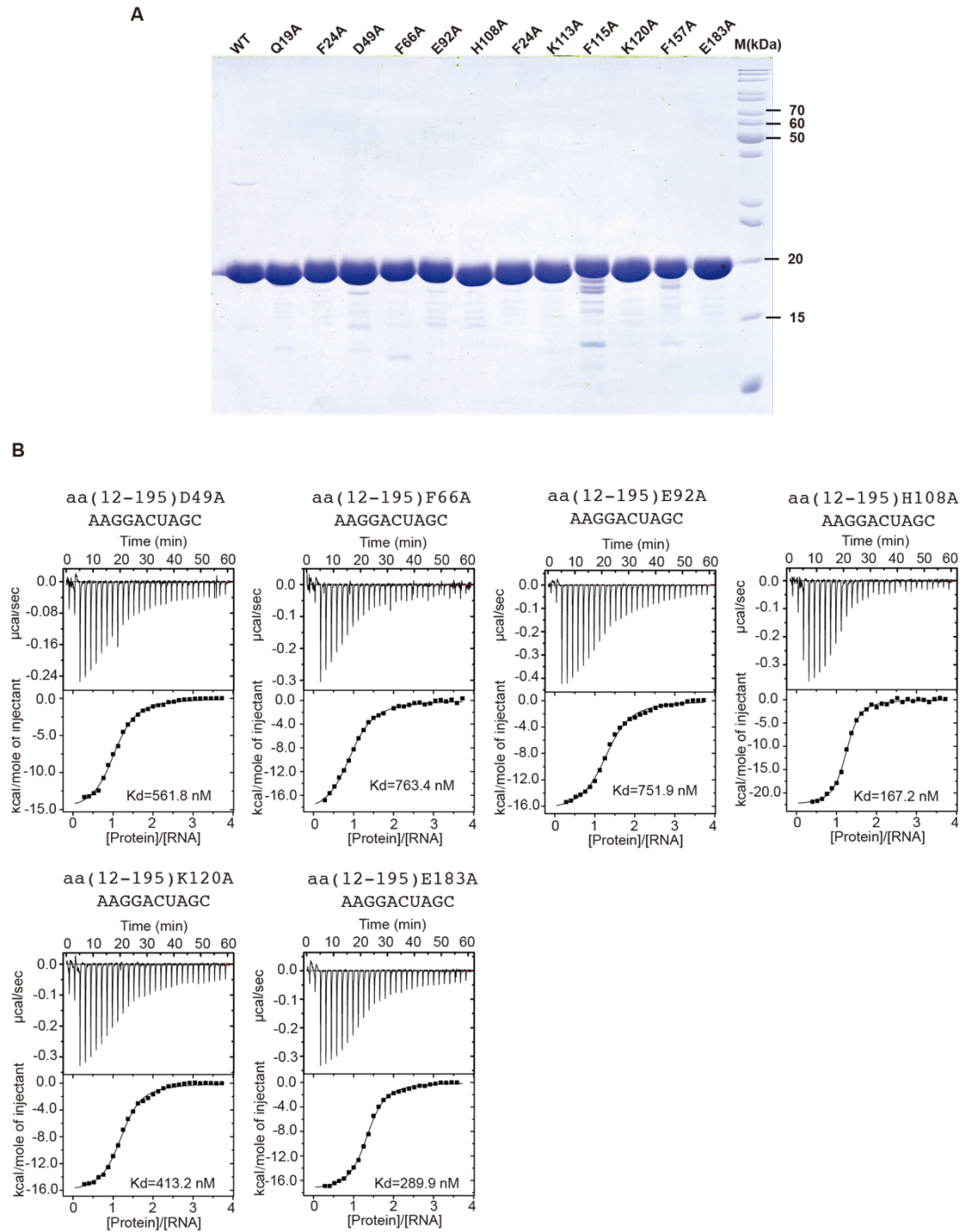


Figure S2 Mutagenesis study of RRMs by ITC experiments (related to Figure 3)

(A) SDS-PAGE of wildtype and protein mutants.

(B) ITC results of hnRNP A2/B1 mutants with 10mer RNA.

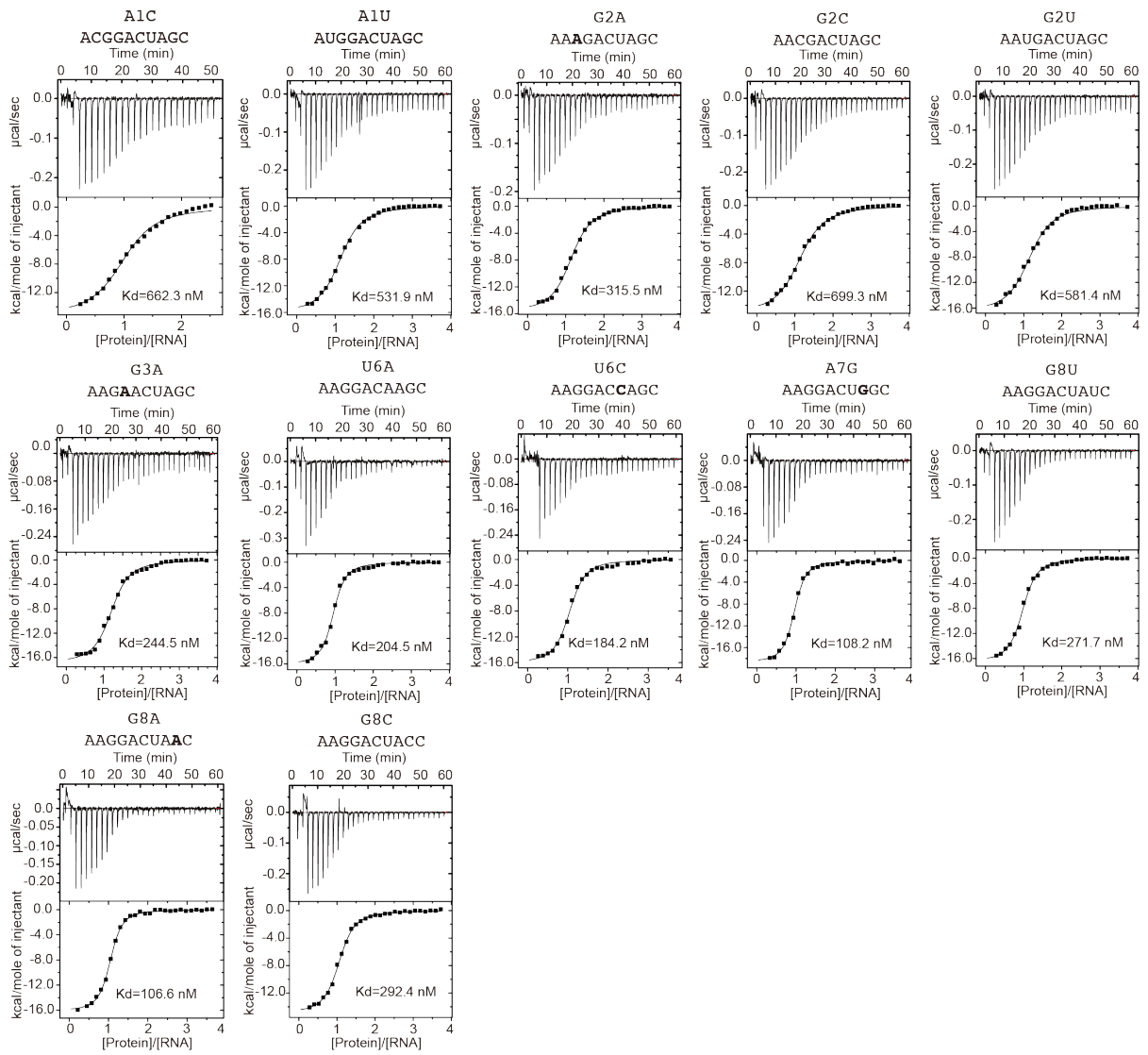


Figure S3 Mutagenesis study of RNA by ITC experiments (related to Figure 3).

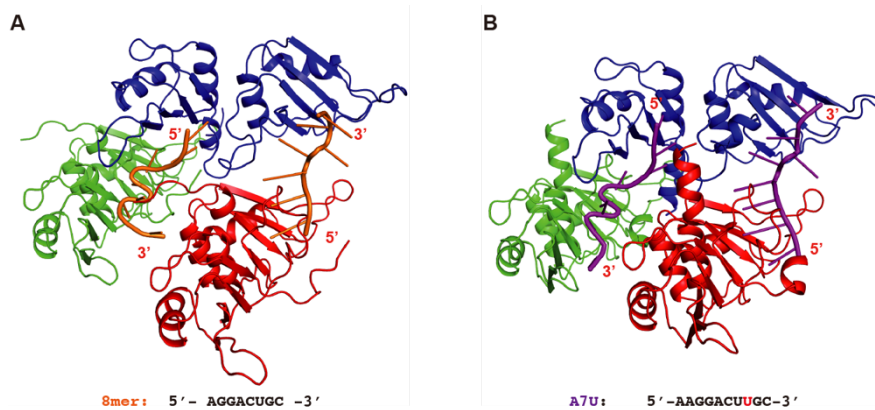


Figure S5 Crystal packing interactions (related to Figure 5).

(A) Crystal packing interactions in 8mer.

(B) Crystal packing interactions in A7U complex.

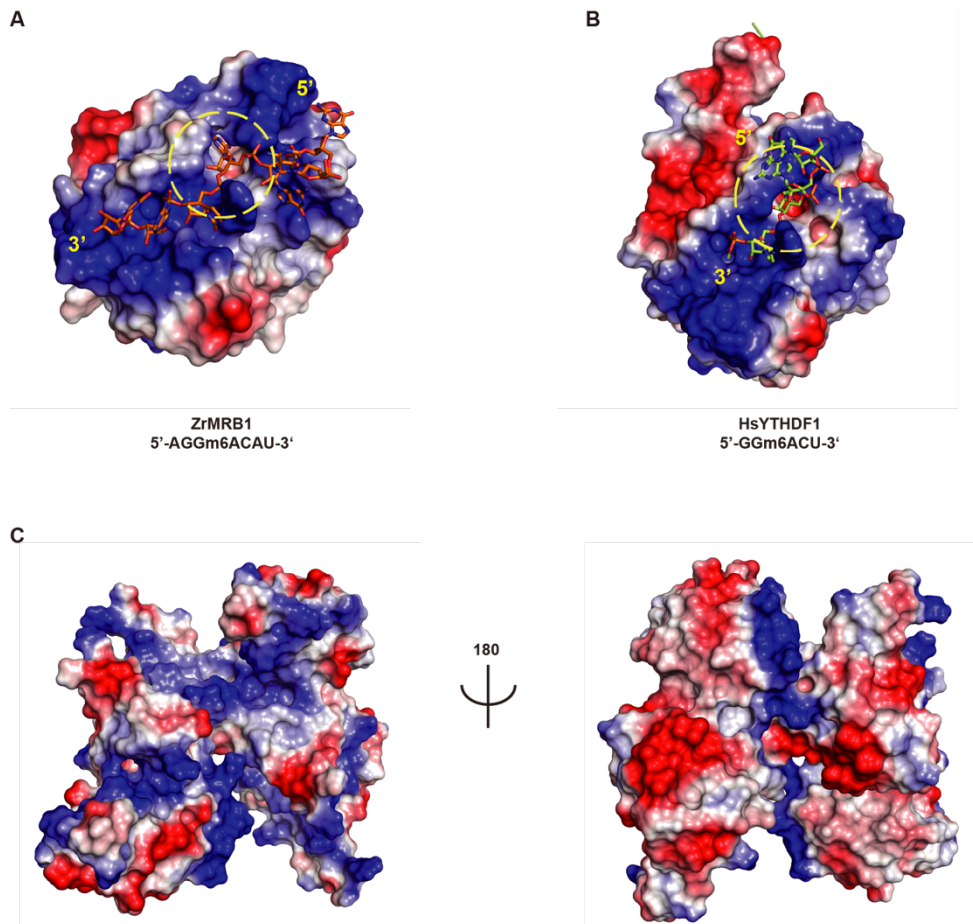


Figure S6 Surface charge comparison of ZrMRB1, HsYTHDF1 and hnRNP A2/B1 (related to Figure 6).

(A) Surface representation of ZrMRB1 in complex with RNA containing m⁶A modification.

(B) HsYTHDF1 in complex with RNA containing m⁶A modification, RNA are all shown by stick.

(C) Surface representation of hnRNP A2/B1 RRMs in complex with 10mer RNA.

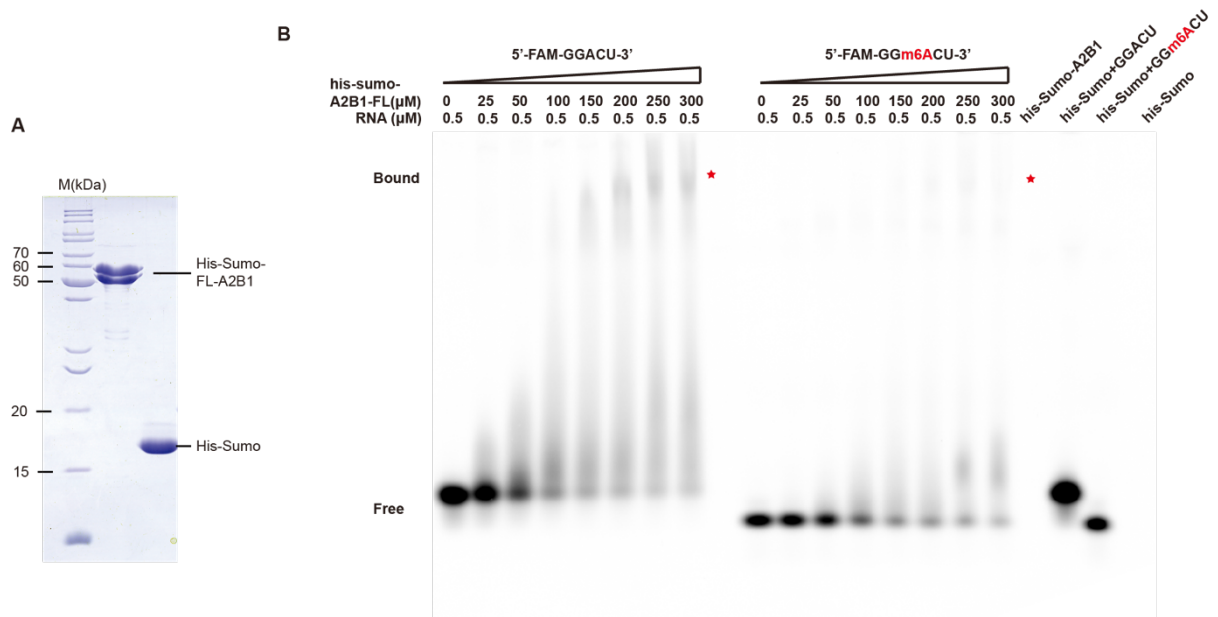


Figure S7 EMSA experiment (related to Figure 6).

(A) SDS-PAGE of full-length hnRNPA2/B1 with His-sumo tag.

(B) EMSA result of full-length hnRNPA2/B1 and 5'-FAM-labeled RNA substrates with or without m⁶A modification.