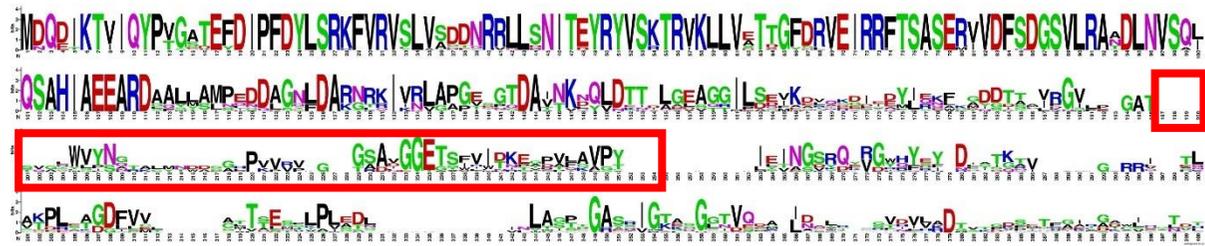


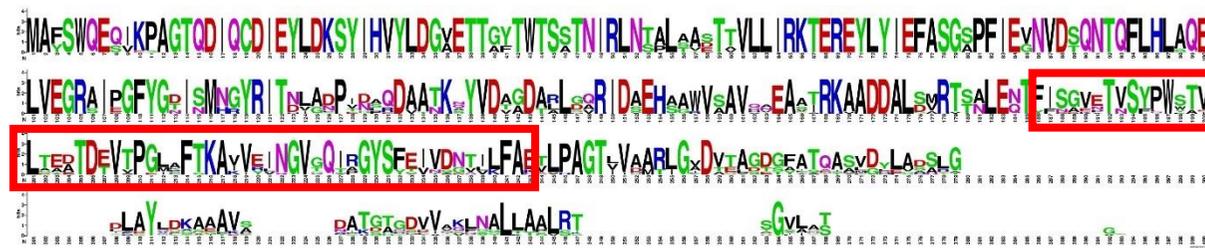
A



B



C



D



E

MANKP TKPNFPLGLEEQ QSVFQEG ILNNGVVEHGPDVAVMTVPEFDPASGVPASVRYNEDDDOFEG YNEGGLPLGGNGGRWEALPHAS SLLQAGRA
 YLVNDT DGVSTVLFPSPKR GDSVTVCDLYGKFSTYPLTVDGNKGS YGSADSMI STDNVSATFTWTGEARGWV TSGVGLGGRVYSRE YSQ LSA
 T S TLSTOP VDYY DGKRLKESLYTL DGY VKFDPALASGSDVQ IQYI QLG GGG SGGTV TWEYNGG A GGETO VLDVYVDSVSE YIRG
 RQQ GRGFTFD TST TLADELE DDVVV NGDPTVYNO DRTPWEVARANNV N EV LSTDK LDGKT YDV Q W IP G P G K I
 V G L G

F

M RNVEE IEGVVVAPHO IEF YTSNNGGETELSLPF P TGFVT IN GVGP DNFE DGNLNLGRELE GDVVECLFDK MSPQDASNNAVR
 YKFLSVGGETEFTPDFT YGVQSLY DGKYKTPGEDYNYFKTSGKVVLDTALPTGVVVAEM KQN PALAG GA GT G L

G

MNPQESQ GGSVSKDVNKQS IAR G K S VAYLK G K L D Q TG SW L LVT G L

H

MKTQFNQSQGSTSRETNKEA RIF LKKSQVGYLST TP DSYV LFDKETQTC
 WYR TATGTP SW L T G

I

1	YP_009153195.1	100.0%	100.0%	MTNSLIQPKGSVSKETNIQSIARITGSKIEEVKYLEDGLDIAGLKFVDSSTETIWKIINGNETGMVDSWNIIVDESTIIV
2	YP_007007681.1	72.7%	20.3%	MSNNLIQPKGSVSKETNIQSIARINGVKIIEVKYLEDGLDVITGLKYLDSSTETVWKIINGDETGLIIDNFTQDETMTH-Q
	consensus/100%			MoNsLIQPKGSVSKETNIQSIARIsGsKIIEVKYLEDGLDIsGLkaIIDSSTETIWKIINGsETGhIIsW..I.DEohhI..

J

1	YP_009153197.1	100.0%	100.0%	MANKLTOPKGSISKETNKEAIAARLFGIKKTAVGYISTSVLIDPVTILDESTET-CWYRGATATGTPISWIIITNGSLTITQT
2	YP_007007682.1	95.0%	23.7%	MTNKLTOPKGSVSKQLNIQTLSRICGCNENEVSYIYNQLDFNIKYLDPISEKICISNG--SGLVLSYTVSENSIMVIT
	consensus/100%			MsnKLTQPKGSIsKphNhpsLuRlhGhpcestVuYI.spl.I.shphLMD..oEp.Ch.pg..oGhsIsAhlopsSlhl.T

K

		cov	pid	1	
1	YP_009153198.1	100.0%	100.0%		MAFKFKGSLSAVDATLKGGVKFDNEKLPDSKNMPECKFTINEIDNSSTTDIASNTLVITNECKQDNVAGMLSENTGDWENN
2	YP_007007683.1	87.2%	48.1%		MAFKFKGSLSAVDATLKGGVKFDNEKLPDSKNMPECKFTINEIDNSSTTDIASNTLVITNECKQDNVAGMLSENTGDWENN
	consensus/100%				MAFKFKGSLSAVDATLKGGVKFDNEKLPDSKNMPECKFTINEIDNSSTTDIASNTLVITNECKQDNVAGMLSENTGDWENN

		cov	pid	81	
1	YP_009153198.1	100.0%	100.0%		NSAPVKLMR ¹ VVNNNSDSDWVTLFDS ¹ KTTV ¹ WSSIASAGQVFTV ¹ ENLDFKKAIYINGIIOYPGISYQTEGGTVTFSN
2	YP_007007683.1	87.2%	48.1%		NSAPVKLMR ¹ VVNNNSDSDWVTLFDS ¹ KTTV ¹ WSSVASAGQVFTV ¹ ENLDFKKAIYINGIIOYPGISYQTEGGTVTFSN
	consensus/100%				NSAPVKLMR ¹ VVNNNSDSDWVTLFDS ¹ KTTV ¹ WSSIASAGQVFTV ¹ ENLDFKKAIYINGIIOYPGISYQTEGGTVTFSN

		cov	pid	161	
1	YP_009153198.1	100.0%	100.0%		SLQAGDNVYIVVGEDSDNTTNTQYISTALDNQTTIILPYEKNSNYLFTNGVLOYPNSFTIVNNTITNSSMQQDDNIFVL
2	YP_007007683.1	87.2%	48.1%		YLQSGDNVYIVVGEDSDNTTNTQYISTALTEQNTIILPYSRSSNYVYINGIIOYPSFTTISNDIITNSSMQEEDNIFVL
	consensus/100%				.LQAGDNVYIVVGEcDSDNTTNTQYISTAhspostIhLPYp+sSNYlaInGIIOYpscFTIsNshITNSSMQpSDNIFVL

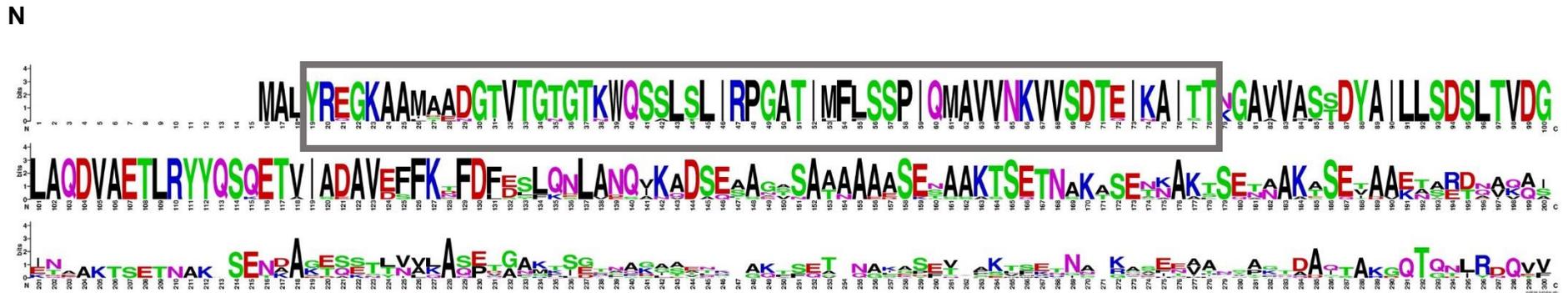


Figure S1. Conserved sequences at the N-terminus of the *Klebsiella* RBPs per family using a WebLogo when multiple RBP sequences are available, or a pairwise alignment when only two RBP sequences are available. (A) N-terminal anchor of the first RBP of KP32viruses; (B) conserved peptide of the second RBP of KP32viruses; (C) N-terminal anchor of the first RBP of KP34viruses; (D) conserved peptide of the second RBP of KP34viruses; (E) N-terminal anchor of the first RBP of viruses belonging to the Menlow group; (F) conserved peptide of the second RBP of viruses belonging to the Menlow group; (G) conserved peptide of the third RBP of viruses belonging to the Menlow group; (H) conserved peptide of the fourth RBP of viruses belonging to the Menlow group; (I) conserved peptide of the second RBP of viruses belonging to the ΦK64-1; (J) conserved peptide of the fourth RBP of viruses belonging to the ΦK64-1 group; (K) anchor of the fifth RBP of viruses belonging to the ΦK64-1 group; (L) conserved peptide of the eighth RBP of viruses belonging to the ΦK64-1 group; (M) conserved peptide of the ninth RBP of viruses belonging to the ΦK64-1 group; (N) N-terminal anchor of the first RBP of KP36viruses. The red frames indicate the region of RBPs detected to be homologous to T4gp10. In the case of KP36viruses, the region homologous to the T5 distal tail protein domain B was indicated with grey frame.