

Supplementary Figure 1. *B. ovis* 63/290 intergenic regions upstream *babR* (A), where MucR is known to bind in *B. abortus* 2308 (1), and genes encoding HdeA (B), Omp25d (C) and BOV_A0299 (D), the three proteins highly overproduced in *B. ovis* PA (Figure 1). The beginning of open reading frames for each gene are highlighted in blue. In *babR* (A), regions known to interact with MucR are underlined, and T-A steps required for optimal binding are highlighted in red (1). In the other genes, AT-rich regions are underlined and T-A steps that could be involved in interaction with MucR are highlighted in red.

(A) ***babR* (*blxR*)**

ATTTTCATTATCTAATTTAGAATGAAGTTATATTCAATATAAAAGTAGAATTTTGAAAATCGCTAA
 TTATGATGAAAAGTAATCTTCGTAGAAGAAATATGAAAGATATGCTAGGAATGTTTAGCGATACATTT
 TACCAAAAATCGCTGCGATTCCAAGAATTCATATTTATTTTGAAACGCTACTGGG ATG TCT GCA
 ATG AAA TGG

(B) ***hdeA***

GGAAGGTCTCGGGATGATATTAATATACATAGTGAAACTTGAAGTGATTATATATAAAAATTATGTATA
 TTAGAGGATTGTCATGGACAATCCTTGTAGGATAATATAGAAATGAGACGTGTTACTATATCTAAGC
 GAAGGAGAAGGAA ATG ATT AAG ACT CTC TTC

(C) ***omp25d***

TTTTTTTATGTCAATCCTCACCCAATATTTGATATTCAATTTAAATATTAGATATATGAAGTATTAC
 TGCATTAAATTTCAAGTTAATCAAAATATATTAACCTTTTGTATAAATGAAAATCAAGACAATTCAT
 TATTGTTGCTCATTTACTACATACATTGACCGATCATCACATATGCTAGCCGCATTGCAATGCCA
 TTCTTATTAGGAGTTTCA ATG ACG TTC AAA AAT CTA

(D) ***BOV_A0299***

TCACAGCATATATCCATGAATATTTTAAAGTTATTTCTCAATAACAACGCGCTAAATCCGTTGTTTTT
 CATGGTTTCTGCATGAATTATCAATTCATAACATTGCCCGCAAAACAAGTAATCAAAAAATTCGTTGTG
 AATCTTGCCGCCATAAAATATATCTCTATTATAGTGACTACAGATCCCGACGCGATAGTCACGAATCC
 ATCGGCAGTCGGGGGCATAATTTTAAACAACCTGGAGTTTGAC ATG GGC ATT TTC GAC AAG

REFERENCE

- (1) Borriello G, Russo V, Paradiso R, Riccardi MG, Criscuolo D, Verde G, et al. Different Impacts of MucR Binding to the *babR* and *virB* Promoters on Gene Expression in *Brucella abortus* 2308. *Biomolecules*. (2020) 10. 10.3390/biom10050788