

**Table S3. Selection of proteins with different abundance in MAP resistant cows after 48-h incubation with MAP *in vitro*.** (a) Protein names as listed in Ensembl Protein Database v.93 (<http://www.ensembl.org>). (b) Gene names of *Bos taurus* (cow) (c) Protein accession numbers as listed in Ensembl database for cows v.93. (d) Fold change of differences in protein abundance in MAP-resistant compared to persistently MAP-infected cows (Up in MAP-resistant). Name of gene as listed in UniProtKB. (e) Statistical significance of differences in protein abundance determined by Student's t-test. Up-regulated genes in MAP-resistant: *Bos taurus* Toll-like receptor 2 (TLR2), *Bos taurus* major histocompatibility complex, class II, DRB3 (BOLA-DRB3), and *Bos taurus* major histocompatibility complex, class II, DR alpha (BOLA-DRA).

(a) Protein name	(b) Gene name	(c) Accession number	(d) Ratio	(e) p-value
<b>Upward in MAP Resistant</b>				
Bos taurus Toll-like receptor 2	<i>TLR2</i>	ENSBTAP000010530	2.5	0.012
Bos taurus major histocompatibility complex, class II, DRB3.	<i>BOLA-DRB3</i>	ENSBTAP000018484	2.5	0.017
Bos taurus major histocompatibility complex, class II, DR alpha	<i>BOLA-DRA</i>	ENSBTAP00000014072	1.4	0.044