

## Supplementary Material

### Association of *CYP19A1* gene polymorphisms with anoestrus in water buffaloes

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**Table S1. Conservation of the CYP19A1 aa sequence among some mammalian species within the region bracketing the mutation sites at c.559G>A (p.V187M) SNP in exon 5 and c.1285C>T (p.P429S) and c.1394A>G (p.D465G) SNPs in exon 10 (red)**

Species	Exon5		Exon10		
<i>Bubalus bubalis</i>	DLGYVD <b>M</b> LTLMR	-----	NVPYRYFQ <b>S</b> FGFGPRA	-----	LRRFHVQTLQ <b>G</b> RCVKMQ
<i>Bos taurus</i>	DLGYVDVLTLMR	-----	NVPYRYFQPFQFGPRA	-----	LRRFHVQTLQGRCVKMQ
<i>Ovis aries</i>	DLGYVDVLTLMR	-----	NVPYRYFQPFQFGPRA	-----	LRRFHVQTLQGRCVKMQ
<i>Capra hircus</i>	DLGYVDVLTLMR	-----	NVPYRYFQPFQFGPRA	-----	LRRFHVQTLQGRCVKMQ
<i>Sus scrofa</i>	DLGYVDVLTLMR	-----	NVPYRYFQPFQFGPRA	-----	LRRFQVQTPQDRCVEMQ
<i>Mus musculus</i>	TSGYVDVLTLMR	-----	NVPYRYFQPFQFGPRG	-----	LRRFQVKTQKRCIENIP
<i>Homo sapiens</i>	ESGYVDVLTLLR	-----	NVPYRYFQPFQFGPCG	-----	LRRFHVKTQGCQVESIQ