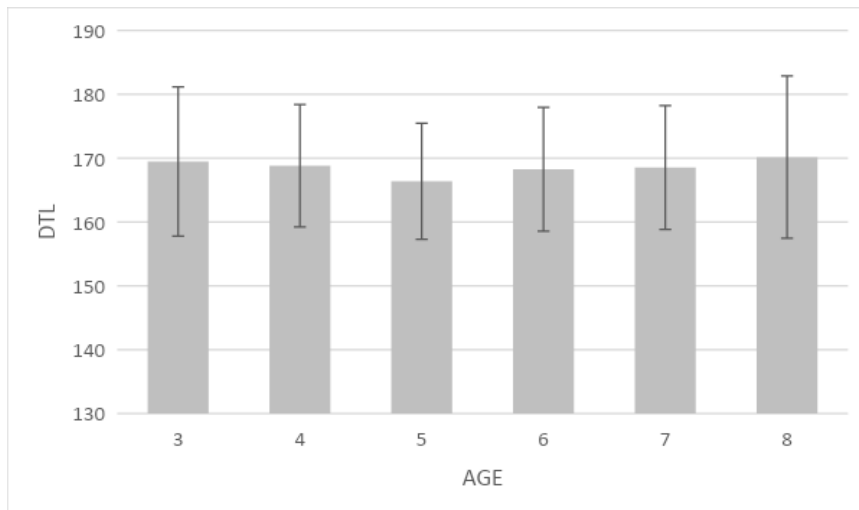
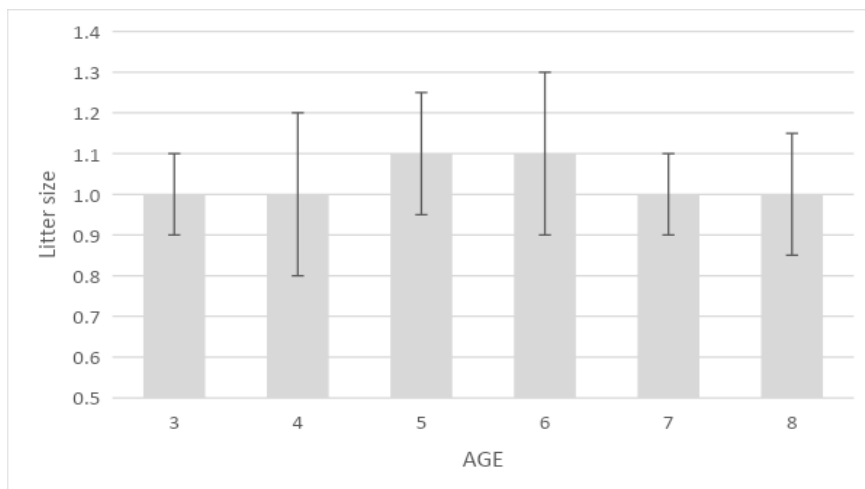


Table S1. *MTNR1A* gene amplified regions and used primers

Amplified regions	Forward primers	Reverse primers
Promoter	GCACAAAAAGAAGCCAAGGA	TCAGGTGTCGCACTGTAACC
Promoter	TGTTCTGGGAGAAGTCTGG	CATGCATCAAACCTGGACTG
Exon 1	CTCGACGCTCTGGGGAT	CCGAACAGGGAAGAGGTTG
Exon 2 and 3'UTR	GGCCCTAACCCATGTTTTCT	CTCCCACTCTGTTCCCTGAA

Table S2. PCR conditions for *MTNR1A* studied regions

PCR steps		Promoter		Promoter		Exon 1		Exon 2 and 3' UTR	
35 cycles	Initial denaturation	94°C	3min	94°C	3min	94°C	3min	94°C	3min
	Denaturation	94°C	1min	94°C	1min	94°C	1min	94°C	1min
	Annealing	60°C	1min	60°C	1min	50°C	1min	54°C	1min
	Extension	72°C	1min	72°C	1min	72°C	30sec	72°C	1min
	Final elongation	72°C	10min	72°C	10min	72°C	10min	72°C	10min

**Figure S1.** Graph showing the mean and the standard deviation of DTL divided by age, in the studied Lebanese Awassi population (n=165). DTL = Days To Lambing**Figure S2.** Graph showing the mean and the standard deviation of litter size divided by age, in the studied Lebanese Awassi population (n=165).

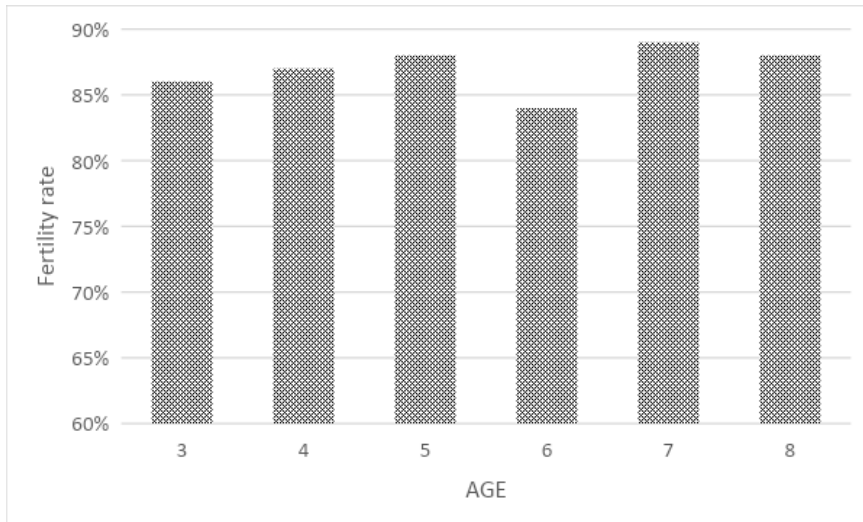


Figure S3. Graph showing fertility rate (%) divided by age, in the studied Lebanese Awassi population (n=165).