

Appendix A: MiR-140 and siRNA-TGFA sequences				
Name	Mature sequence	Gene name	Gene sequence(5'-3')	Gene sequence(5'-3')
>bta-miR-140 MIMAT0003789	UACCACAGGGUAGAACCACGGA	SiRNA-TGFA	GCCCUGGAGAACAGCACAUTT	AUGUGCUGUUCUCCAGGGCTT

Appendix B: Primers for genes related to milk fat metabolism	
Gene name	Primer sequences(5'-3')
TGFA-F	ATGGTCACCTCGGCTGGACAG
TGFA-R	CCACGGGCGGGTCACTCAG
ELOVL6-F	GGAAGCCTTTAGTGCTCTGGTC
ELOVL6-R	ATTGTATCTCCTAGTTCGGGTGC
AGPAT6-F	AAGCAAGTTGCCATCCTCA
AGPAT6-R	AAACTGTGGCTCCAATTTCTGA
CD36-F	GTACAGATGCAGCCTCATTTC
CD36-R	TGGACCTGCAAATATCAGAGGA
DGAT1-F	CCACTGGGACCTGAGGTGTC
DGAT1-R	GCATCACCACACACCAATTCA
PLIN3-F	GGTGGAGGGTCAGGAGAAA
PLIN3-R	TCACGGAACATGGCGAGT
UXT-F	TGTGGCCCTTGGATATGGTT

UXT-R	GGTTGTCGCTGAGCTCTGTG
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Appendix C: Synthesized the TGFA gene 3'-UTR primer		
The Primer name	Primer sequences(5'-3')	
TGFA-Up	ccgctcgag CAGTTCAAAGAGGCTCCAACAC	
TGFA-Down	GAGTAGTGAGCAATATAAA cgccggcgtataaa	
TGFA-overlap	ACTTGTTACTCTGACTTCTGTATATGTTTTTTTTTAAAGGT	