

Elements in miRNA gene regulatory network	Database, bioinformatics tools	Result
Upstream polymorphisms		
Upstream variations (2kb)	Ensembl	> 50
CpG islands (5kb upstream)	MethPrimer	1 CpG island, 104 bp
Overlapping elements		
Genetic variability (within pre-miRNA region)	Ensembl	9 SNPs
miRNA host gene	miRBase, Ensembl	<i>GRAMD1B</i>
Location within host gene	miRBase, Ensembl	Intron 2
Overlapping QTL	QTLdb	17 QTL
SNP within seed region	Ensembl	4
Validation status of seed polymorphisms	dbSNP, PubMed	1 validated (rs41761413), 3 unvalidated
SNP within mature region without seed	Ensembl	4
SNP within seed region causing the formation of seed region belonging to different miRNA gene	TargetScan	rs41761413C>T, <i>bta-mir-3600</i>
association with phenotype	PubMed	Regulatory mechanisms of mastitis
Downstream targets		
Predicted targets	TargetScan	miR-2313-3p: 3393 transcripts (4188 sites) miR-2313-5p: 3100 transcripts (3757 sites)