**Supplementary Material 5.** Alignment of the bovine microRNAs sequence with the human microRNA sequence and the primer sequence. The alignment was performed using the multiple sequence alignment tool of CLUSTAL 0 (1.2.3)

|  |  |
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| **microRNA** | **Alignment result** |
| bta‐let‐7a‐5p | hsa‐let‐7a‐5p UGAGGUAGUAGGUUGUAUAGUU  bta‐let‐7a‐5p UGAGGUAGUAGGUUGUAUAGUU  primer TGAGGTAGTAGGTTGTATAGTT  \*\*\*\* \*\* \*\*\* \* \* \*\* |
| bta‐let‐7b | bta‐let‐7b UGAGGUAGUAGGUUGUGUGGUU  hsa‐let‐7b UGAGGUAGUAGGUUGUGUGGUU  primer TGAGGTAGTAGGTTGTGTGGTT  \*\*\*\* \*\* \*\*\* \* \* \*\* |
| bta‐let‐7e | bta‐let‐7e UGAGGUAGGAGGUUGUAUAGU  hsa‐let‐7e UGAGGUAGGAGGUUGUAUAGU  primer TGAGGTAGGAGGTTGTATAGT  \*\*\*\* \*\*\*\*\*\* \* \* \*\* |
| bta‐mir‐10b | hsa‐mir‐10b UAGAACCGAAUUUGUGUGGUAUC  bta‐mir‐10b UACCCUGUAGAACCGAAUUUGUG  primer TACCCTGTAGAACCGAATTTGTG  \*\*\*\* \* \*\*\*\*\*\*\*\*\* \* \* |
| bta‐mir‐15a | bta‐mir‐15a UAGCAGCACAUAAUGGUUUGU  hsa‐mir‐15a UAGCAGCACAUAAUGGUUUGU  primer TAGCAGCACATAATGGTTTGT  \*\*\*\*\*\*\*\*\* \*\* \*\* \* |
| bta‐mir‐24‐1 | bta‐mir‐24‐1 UGGCUCAGUUCAGCAGGAACAG  bta‐mir‐24‐2 UGGCUCAGUUCAGCAGGAACAG  hsa‐mir‐24‐2 UGGCUCAGUUCAGCAGGAACAG  hsa‐mir‐24‐1 UGGCUCAGUUCAGCAGGAACAG  primer TGGCTCAGTTCAGCAGGAACAG  \*\*\* \*\*\* \*\*\*\*\*\*\*\*\*\*\*\* |
| bta‐mir‐29a | hsa‐mir‐29a CUAGCACCAUCUGAAAUCGGUUA  bta‐mir‐29a CUAGCACCAUCUGAAAUCGGUUA  primer CTAGCACCATCTGAAATCGGTTA  \* \*\*\*\*\*\*\* \* \*\*\*\* \*\*\* \* |
| bta‐miR‐29b | bta‐miR‐29b UAGCACCAUUUGAAAUCAGUGUU  hsa‐mir‐29b‐1 UAGCACCAUUUGAAAUCAGUGUU  primer TAGCACCATTTGAAATCAGTGTT  \*\*\*\*\*\*\* \*\*\*\* \*\*\* \* |
| bta‐mir‐29c | hsa‐mir‐29c UAGCACCAUUUGAAAUCGGUUA  bta‐mir‐29c UAGCACCAUUUGAAAUCGGUUA  primer TAGCACCATTTGAAATCGGTTA  \*\*\*\*\*\*\* \*\*\*\* \*\*\* \* |
| bta‐mir‐30b | bta‐mir‐30b UGUAAACAUCCUACACUCAGCU  hsa‐mir‐30b UGUAAACAUCCUACACUCAGCU  PRIMER TGTAAACATCCTACACTCAGCT  \* \*\*\*\*\* \*\* \*\*\*\* \*\*\*\* |
| bta‐mir‐30d | hsa‐mir‐30d UGUAAACAUCCCCGACUGGAAGCU  bta‐mir‐30d UGUAAACAUCCCCGACUGGAAGCU  primer TGTAAACATCCCCGACTGGAAGCT  \* \*\*\*\*\* \*\*\*\*\*\*\* \*\*\*\*\*\* |
| bta‐mir‐34a | hsa‐mir‐34a UGGCAGUGUCUUAGCUGGUUGU  bta‐mir‐34a UGGCAGUGUCUUAGCUGGUUGU  primer TGGCAGTGTCTTAGCTGGTTGT  \*\*\*\*\* \* \* \*\*\* \*\* \* |
| bta‐mir‐92a | hsa‐mir‐92a‐1 UAUUGCACUUGUCCCGGCCUGU  hsa‐mir‐92a‐2 UAUUGCACUUGUCCCGGCCUGU  bta‐mir‐92a‐2 UAUUGCACUUGUCCCGGCCUGU  bta‐mir‐92a‐1 UAUUGCACUUGUCCCGGCCUGU  primer TATTGCACTTGTCCCGGCCTGT  \* \*\*\*\* \* \*\*\*\*\*\*\* \* |
| bta‐mir‐93 | hsa‐mir‐93 CAAAGUGCUGUUCGUGCAGGUA  bta‐mir‐93 CAAAGUGCUGUUCGUGCAGGUA  primer CAAAGTGCTGTTCGTGCAGGTA  \*\*\*\*\* \*\* \* \*\* \*\*\*\*\* \* |
| bta‐miR‐101 | hsa‐mir‐101‐1 UACAGUACUGUGAUAACUGAAGGAUGGCA  bta‐miR‐101 UACAGUACUGUGAUAACUGAA  primer TACAGTACTGTGATAACTGAA  \*\*\*\* \*\* \* \*\* \*\*\* \*\*\* |
| bta‐miR‐103 | bta‐miR‐103 AGCAGCAUUGUACAGGGCUAUGA  hsa‐miR‐103a‐3p AGCAGCAUUGUACAGGGCUAUGA  primer AGCAGCATTGTACAGGGCTATGA  \*\*\*\*\*\*\* \* \*\*\*\*\*\*\* \* \*\* |
| bta‐miR‐199a‐5p | hsa‐miR‐199a‐5p CCCAGUGUUCAGACUACCUGUUC  bta‐miR‐199a‐5p CCCAGUGUUCAGACUACCUGUU  primer CCCAGTGTTCAGACTACCTGTT‐  \*\*\*\*\* \* \*\*\*\*\* \*\*\* \* |
| bta‐mir‐199b | hsa‐mir‐199b CCCAGUGUUUAGACUAUCUGUUC  bta‐mir‐199b CCCAGUGUUUAGACUAUCUGUUC  primer CCCAGTGTTTAGACTATCTGTTC  \*\*\*\*\* \* \*\*\*\* \* \* \* \* |
| bta‐mir‐222 | hsa‐mir‐222 AGCUACAUCUGGCUACUGGGU  bta‐mir‐222 AGCUACAUCUGGCUACUGGGU  primer AGCTACATCTGGCTACTGGGT  \*\*\* \*\*\* \* \*\*\* \*\* \*\*\* |
| bta‐mir‐296 | hsa‐mir‐296 GAGGGCCCCCCCUCAAUCCU  bta‐mir‐296 GAGGGCCCCCC‐CCAAUCCU  primer GAGGGCCCCCC‐CCAATCCT  \*\*\*\*\*\*\*\*\*\*\* \*\*\* \*\* |
| bta‐mir‐320a | hsa‐mir‐320a AAAAG CUGGGUUGAGAGGGC  bta‐mir‐320a‐2 AAAAG CUGGGUUGAGAGGGC  bta‐mir‐320a‐1 AAAAG CUGGGUUGAGAGGGC  PRIMER AAAAG CTGGGTTGAGAGGGC  \*\*\*\*\*\* \*\*\* \*\*\*\*\*\*\*\*\*\* |
| bta‐mir‐323 | hsa‐mir‐323b GCCCAAUACACGGUCGACCUCU  hsa‐mir‐323a GCACAUUACACGGUCGACCUCU  bta‐mir‐323 GCACAUUACACGGUCGACCUCU  primer GCACATTACACGGTCGACCTCT  \*\*.\*\* \*\*\*\*\*\* \*\*\*\*\* \* |
| bta‐mir‐375 | bta‐mir‐375 UUUUGUUCGUUCGGCUCGCGUGA  hsa‐mir‐375 UUUUGUUCGUUCGGCUCGCGUGA  primer TTTTGTTCGTTCGGCTCGCGTGA  \* \*\* \*\*\*\* \*\*\*\* \*\* |
| bta‐miR‐423‐5p | bta‐miR‐423‐5p UGAGGGGCAGAGAGCGAGACUUU  hsa‐miR‐423‐5p UGAGGGGCAGAGAGCGAGACUUU  primer TGAGGGGCAGAGAGCGAGACTTT  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* |
| bta‐mir‐494 | bta‐mir‐494 UGAAACAUACACGGGAAACCUCUUUUUUAGUAUCAA  hsa‐mir‐494 UGAAACAUACACGGGAAACCUCUUUUUUAGUAUC‐  primer TGAAACATACACGGGAAACCTC  \*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\* \* |
| bta‐mir‐664b | hsa‐mir‐664b UAUUCAUUUGCCUCCCAGCCUAC  bta‐mir‐664b UAUUCAUUUAUCUCCCAGCCUAC  Primer TATTCATTTATCTCCCAGCCTAC  \* \*\* . \* \*\*\*\*\*\*\* \*\* |
| bta‐mir‐665 | hsa‐mir‐665 ACCAGGAGGCUGAGGCCCC  bta‐mir‐665 ACCAGUAGGCCGAGGCCCC  primer ACCAGTAGGCCGAGGCCCC  \*\*\*\*\* \*\*\*\* \*\*\*\*\*\*\*\* |