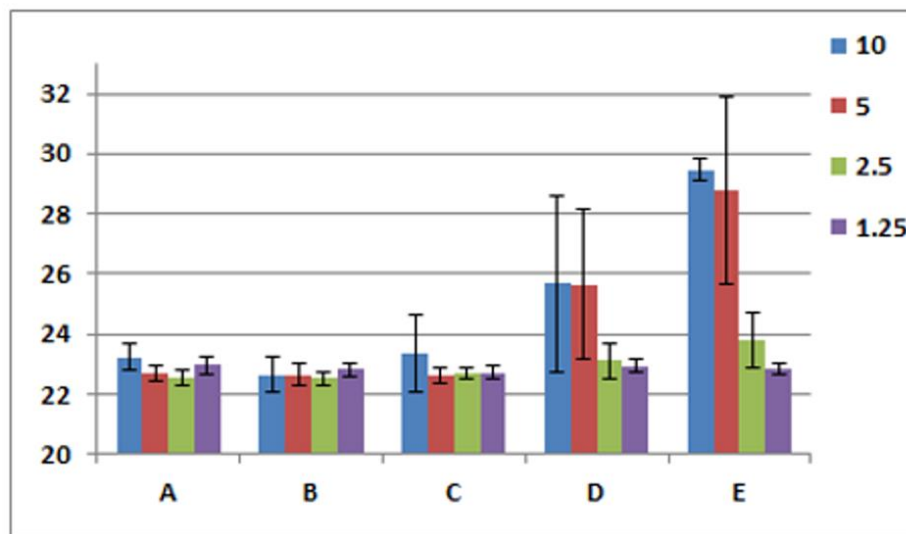


# Intracellular microRNA profiles form in the *Xenopus laevis* oocyte that may contribute to asymmetric cell division

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## Supplement information



Supplement Figure 1. Optimization of experimental protocol using an RNA spike. 10 ng (blue), 5 ng (red), 2.5 ng (green), and 1.25 ng (violet) of total RNA and same amount of the RNA spike were used for reverse transcription. Spike cDNA was then quantified using qPCR. Y-axis shows Cq value and x-axis indicates section from the animal pole (section A) to vegetal pole (section E). Error bars indicate standard deviation of biological replicates.

miRNA	primer	Tm
miR-16c	TAGCAGCACGTAAATACTGGAGG	59.30
miR-18b	TAAGGTGCATCTAGTGCAGTTAGG	59.52
miR-19b	TGCAAATCCATGCAAACTGAG	61.83
miR-20b	CAAAGTGCTCATAGTGCAGGTAGG	60.98
miR-22	AGCTGCCAGTTGAAGAACTGTG	60.44
miR-25	ATTGCACTTGTCTCGGTCTGAG	60.27
miR-93a	GTGCTGTTTCGTGCAGGTAGG	60.29
miR-100	CCGTAGATCCGAACTTGTGG	58.99
miR-148b	TCAGTGCATCACAGAACTTTGTG	59.79
miR-221	GCTACATTGTCTGCTGGGTTTG	60.50
miR-363-3p	AATTGCACGGTATCCATCTGTAAG	60.08
miR-5102-5p	GAGTTTGA CTGGGGCGG	58.52
miR-15a	TAGCAGCACATAATGGTTTGTGAG	60.02
miR-15c	TAGCAGCACATCATGGTTTGTAG	58.77
miR-22	AGCTGCCAGTTGAAGAACTGTG	60.44
miR-24a	GCTCAGTTCAGCAGGAACAGG	60.93
miR-27b	TCACAGTGGCTAAGTTCTGCG	60.03
miR-34a	GGCAGTGTCTTAGCTGGTTGTG	60.69
miR-34b	AGGCAGTGTAGTTAGCTGATTGG	58.47
miR-122	TGGAGTGTGACAATGGTGTGTTG	60.28
miR-124	ACGCGGTGAATGCCAAG	60.20
miR-140-3p	CACAGGGTAGAACCACGGAG	59.00
miR-191	GAATCCCAAAGCAGCTGTG	59.26
miR-210	CGTGTGACAGCGGCTGAG	61.23
miR-214	CAGGCACAGACAGGCAGTG	60.03
miR-222	ACATCTGGCTACTGGGTCTCG	60.11
miR-375	CGTTCGGCTCGCGTTAG	60.08

Supplement Table 1. Primer assays and their predicted Tm of maternal miRNAs. The primer assays were designed for 27 randomly selected maternal miRNAs. 12 assays (miR-16c, miR-18b, miR-19b, miR-20b, miR-22, miR-25, miR-93a, miR-100, miR-148b, miR-221, miR-363-3p, miR-5102-5p, shown in red) showed higher and more reproducible expression than the other 15 miRNAs (miR-15a, miR-15c, miR-22, miR-24a, miR-27b, miR-34a, miR-34b, miR-122, miR-124, miR-140-3p, miR-191, miR-210, miR-214, miR-222, miR-375, shown in blue).