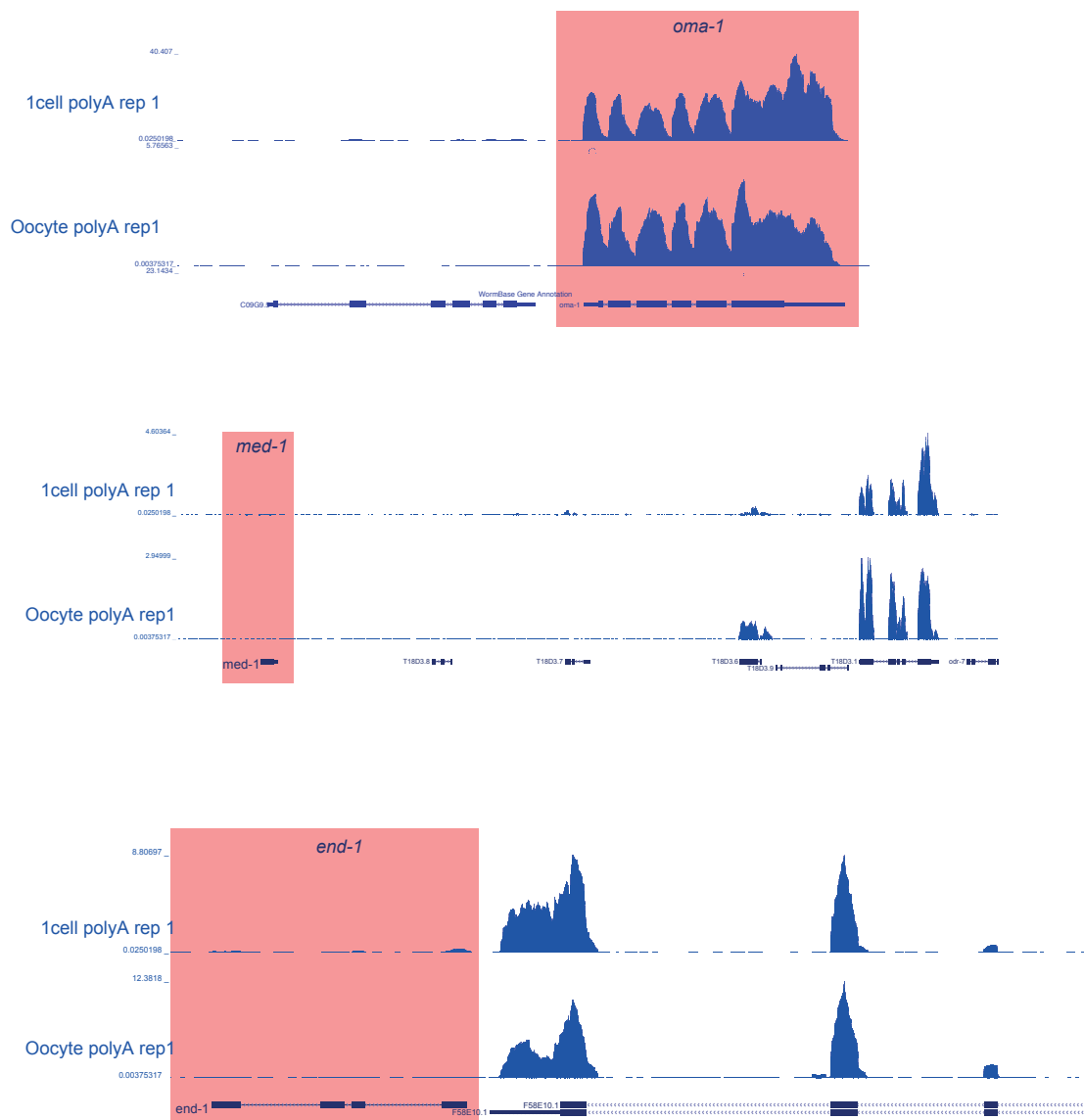


Supplementary Figure S2

A

GENENAME	oocyte_RPKM	1-cell_RPKM	2-cell_RPKM	
<i>oma-2</i>	1522.6	1256.1	611.3	Controls
<i>tba-1</i>	2265.8	1230.9	782.6	
<i>nos-2</i>	375.9	699.2	924.5	
<i>pie-1</i>	396	332.5	183.8	
<i>oma-1</i>	510.5	237.3	222.5	
<i>lmn-1</i>	289.6	219.9	283	
<i>end-3</i>	0.7	1.4	2.7	
<i>hlh-1</i>	0.2	0.9	1.2	
<i>end-1</i>	0.3	0.8	1.1	
<i>msh-56</i>	0.5	0.8	1.7	
<i>msh-81</i>	0.6	0.7	1.5	
<i>elt-2</i>	0.1	0.5	0.4	
<i>ges-1</i>	0	0.2	0.2	
<i>msh-10</i>	0.4	0.2	0.6	
<i>myo-3</i>	0	0.2	0.1	
<i>unc-25</i>	0.2	0.2	0.1	
<i>med-1</i>	0	0.1	2.5	
<i>med-2</i>	0	0.1	3	
<i>myo-2</i>	0	0.1	0	
<i>unc-89</i>	0.1	0.1	0.1	

B



Supplementary Figure S2 | Assessment of sample purity.

A. The purity of our oocytes and 1-cell and 2-cell embryos was validated by checking for marker gene expression. Shown are RPKM as a measure of mRNA expression. Transcripts with ~2 RPKM are virtually only expressed at background level. We did not observe zygotic transcripts that have been described to be expressed in 4- to 8-cell embryos (e.g. *med-1*, *end-3*, *end-1*) and did not detect transcripts which are highly expressed in muscle (*myo-3*, *myo-2*, *hlh-1*), neurons (*unc-8*, *unc-25*), gut (*elt-2*, *ges-1*) and sperm (*msp-10*, *msp-81*, *msp-56*, *spe-9*). Control genes that are known to be expressed in oocytes and early embryos (*pie-1*, *oma-1*, *oma-2*, *nos-2*) and structural genes (*tba-1*, *lmn-1*) were found to be highly expressed.

B. Genome browser snapshots of the reads of our oocytes and 1-cell embryos mapping to a gene known to be highly expressed in oocytes and embryos (*oma-1*, marked in red box) and zygotic transcripts (*med-1*, *end-1*; marked in red box).