

Table S2: Characteristics of developmental stages of embryos that were collected for the expression profile analysis in this work.

	Developmental stages	Characteristics
1	Unfertilized egg	Unfertilized eggs, maternal mRNA
2	High stage (3 hpf)	Early post-MBT embryo, transcripts that could be linked to activation of transcription, early zygotic transcripts, yolk syncytial layer
3	30% epiboly (4.5 hpf)	Early post-MBT embryo, early zygotic transcripts
4	Shield stage (6 hpf)	Determinants of germ layers, axis determinants
5	70% epiboly (7.7 hpf)	Determinants of germ layers and embryonic axis
6	90% epiboly (9 hpf)	Determinants of determination of primary neurons
7	2 somite stage (10.7 hpf)	Determinants of neural determination and differentiation
8	5-6 somite stage (12 hpf)	Determinants of neural determination and differentiation Determinants of organogenesis
9	12-14 somites stage (15 hpf)	Determinants of neural determination, differentiation, axonal outgrowth, liver, pancreas
10	Prim 5 stage (24 hpf)	Determinants of secondary neurogenesis, endoderm, heart, limbs, fins
11	Prim 15 stage (30 hpf)	Determinants of endoderm, foregut, gliogenesis
12	Late organogenesis (48 hpf)	Determinants of late differentiation, hatching