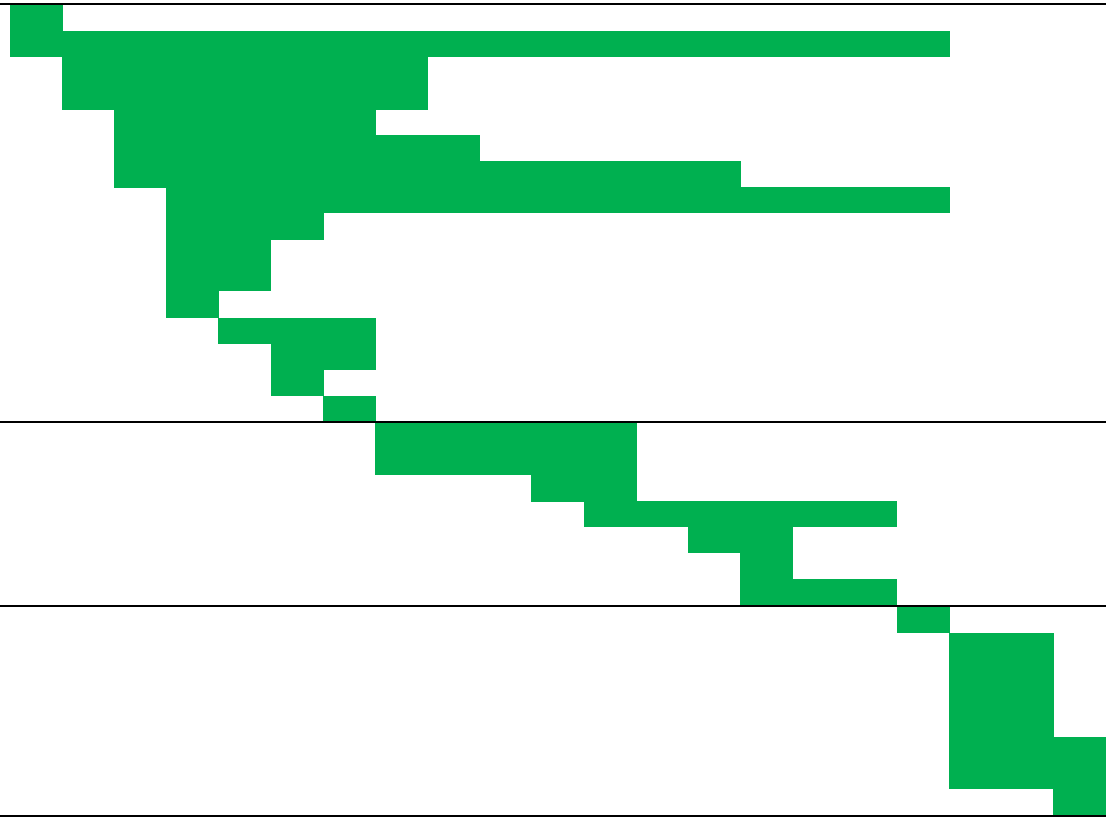
Table S1. Timing of chick embryo development phases and associated critical events.

Embryonic development stage	Embryonic Event	Embryonic days (ED) 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21
Establishment of germ layers	Configuration of body plans	
	Development of the vascular system and immunity	
	Development of yolk sac vasculature	
	Development of cardiac structures and functions	
	Development of heart, gonads, and limb buds	
	Development of liver	
	Evolution of chorioallantoic membrane (CAM)	
	Expansion of the CAM vasculature	
	Development of spleen	
	Mesonephric kidney starts discharging	
	Attachment of CAM to eggshell membrane	
	Start of the eye pigmentation	
	Development of thymus	
	The appearance of chicken combs	
	Initiation of sex determination	
	The emergence of early feather buds	
Embryo completion	Progressive development of feathers and toes	
	The gradual development of eyelids and peaks	
	The emergence of T and B immune cells	
	Acceleration of heart, liver, and brain growth	
	Chick embryo is structurally complete	
	Feathers become visible	
	The embryo head faces the air sac	
Emergence	CAM vasculature reaches maximum volume	
	Internal pipping	
	Initiation of lung respiration	
	The disappearance of the albumen and yolk sac	
	Initiation of CAM degeneration	
	Accumulation of glycogen	
	Oral consumption of amnion	
	External pipping and hatching