

Development of the Vertebrate

Eye
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To sum up

Anterior Portion of Neural Tube



Eye field and then Optic Vesicle (PAX-6, SIX-3, RX-1)



Division of Eye Field (SHH)



Head ectoderm forms Lens Placode (PAX-6, SOX-2, L-MAF)



Induction by OV to LP



Reciprocal Induction by LP to OV



Invagination of OV to form a bilayered structure



Invagination of LP to form Lens



Inner Optic Vesicle layer forms Retina



Outer OV layer forms Pigmented Retina and Optic Nerves



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