

Summary of *tfap2* homologs expression pattern

| Species : | Amphioxus | Lamprey | Lamprey | Zebrafish | Zebrafish | Zebrafish | Zebrafish | Zebrafish |
|--------------------------------|--------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|
| <i>tfap2</i> paralog : | <i>tfap2</i> | <i>tfap2</i> | <i>tfap2d</i> | <i>tfap2a</i> | <i>tfap2b</i> | <i>tfap2c</i> | <i>tfap2d</i> | <i>tfap2e</i> |
| Neural ectoderm (brain) | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Optic tectum (48 hpf) | n/a | ? | ? | Yes | Yes | No | Yes | Yes |
| Cerebellum (48 hpf) | n/a | ? | ? | Yes | Yes | No | No | Yes |
| Hindbrain (48 hpf) | n/a | ? | ? | Yes | Yes | No | No | Yes |
| Spinal cord | n/a | ? | ? | No | Yes | No | No | No |
| Ectoderm (epidermis) | Yes | Yes | No | Yes | No | Yes | No | Yes |
| Ectoderm (pharyngeal) | n/a | Yes | No | Yes | Yes | Yes | No | No |
| Neural plate border | No | Yes | No | Yes | No | Yes | No | No |
| Neural crest early | n/a | Yes | No | Yes | No | No | No | No |
| Neural crest late | n/a | Yes | No | Yes | Yes | No | No | Yes |
| Kidney (pronepheros) | n/a | n/a | n/a | Yes | Yes | No | No | No |

“n/a” represents structures that may or may not have homologous regions in indicated species. “?” represents structures where expression pattern is unknown in indicated species.