

**Table S1. RNA in situ hybridisation probes**

Probe	Restriction site/polymerase	Reference/imaGene ID
<i>cx43α1</i>	<i>EcoRI/Sp6</i>	IMAGp998L0210947Q
<i>ephA4</i>	<i>BamHI/T7</i>	Xu et al., 1995
<i>erm</i>	<i>NotI/T7</i>	Munchberg et al., 1999
<i>fabp7a</i>	<i>EcoRI/Sp6</i>	IMAGp998A0111841Q1
<i>glula</i>	<i>EcoRI/T7</i>	IRBOP991B083D2
<i>kaede</i>	<i>BamHI/T7</i>	Ando et al., 2002
<i>nkx2.2a</i>	<i>BamHI/T7</i>	Barth and Wilson, 1995
<i>ngn1</i>	<i>XhoI/T7</i>	Blader et al., 1997
<i>olig2</i>	<i>Sall/Sp6</i>	IMAGp998D0610945Q
<i>pax3</i>	<i>NotI/T7</i>	Seo et al., 1998
<i>pax6a</i>	<i>NotI/T7</i>	Krauss et al., 1991
<i>sox9a</i>	<i>HindIII/T3</i>	IRBOP991A1167D
<i>sox9b</i>	<i>EcoRI/T7</i>	IMAGp998A2314316Q
<i>sox10</i>	<i>Sall/T7</i>	Dutton et al., 2001

## References

- Ando, R., Hama, H., Yamamoto-Hino, M., Mizuno, H. and Miyawaki, A.** (2002). An optical marker based on the UV-induced green-to-red photoconversion of a fluorescent protein. *Proc. Natl. Acad. Sci. USA* **99**, 12651-12656.
- Barth, K. A. and Wilson, S. W.** (1995). Expression of zebrafish *nk2.2* is influenced by sonic hedgehog/vertebrate hedgehog-1 and demarcates a zone of neuronal differentiation in the embryonic forebrain. *Development* **121**, 1755-1768.
- Blader, P., Fischer, N., Gradwohl, G., Guillemot, F. and Strahle, U.** (1997). The activity of neurogenin1 is controlled by local cues in the zebrafish embryo. *Development* **124**, 4557-4569.
- Dutton, K. A., Pauliny, A., Lopes, S. S., Elworthy, S., Carney, T. J., Rauch, J., Geisler, R., Haffter, P. and Kelsh, R. N.** (2001). Zebrafish *colourless* encodes *sox10* and specifies non-ectomesenchymal neural crest fates. *Development* **128**, 4113-4125.
- Krauss, S., Johansen, T., Korzh, V., Moens, U., Ericson, J. U. and Fjose, A.** (1991). Zebrafish *pax[zf-a]*: a paired box-containing gene expressed in the neural tube. *EMBO J.* **10**, 3609-3619.
- Munchberg, S. R., Ober, E. A. and Steinbeisser, H.** (1999). Expression of the Ets transcription factors *erm* and *pea3* in early zebrafish development. *Mech. Dev.* **88**, 233-236.
- Seo, H. C., Saetre, B. O., Havik, B., Ellingsen, S. and Fjose, A.** (1998). The zebrafish *Pax3* and *Pax7* homologues are highly conserved, encode multiple isoforms and show dynamic segment-like expression in the developing brain. *Mech. Dev.* **70**, 49-63.
- Xu, Q., Alldus, G., Holder, N. and Wilkinson, D. G.** (1995). Expression of truncated *Sek-1* receptor tyrosine kinase disrupts the segmental restriction of gene expression in the *Xenopus* and zebrafish hindbrain. *Development* **121**, 4005-4016.