Supplementary Material

# Supplementary Table 1. Composition of buffers and solutions for *in situ* hybridization.

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| **Buffer/Solution** | **Composition** |
| “Salts” (10x) | 2 M NaCl  50 mM EDTA  100 mM Tris-HCl pH 7.5  50 mM NaH2PO4 · 2 H20  50 mM Na2HPO4 |
| Antibody solution | anti-Digoxigenin-AP antibody  1:1,500 in blocking solution |
| Blocking solution | MABT buffer with  2 % (w/v) blocking reagent  10 % (v/v) sheep serum |
| DEPC-treated water | add 1 mL DEPC to 1 L aqua dest,  mix and store in the dark over night,  autoclave |
| Developing solution | Pre-developing buffer with  5 % polyvinyl alcohol  0.12 mM NBT  0.11 mM BCIP  adjust pH to 9.8 |
| Hybridization mix | 10 % (v/v) “Salts” (10x)  50 % (v/v) formamide  10 % (w/v) dextran sulfate  2 % (v/v) Denhardt’s (50x)  100 µg/ml tRNA |
| MABT buffer | 100 mM maleic acid  150 mM NaCl  0.1 % (v/v) Tween 20  adjust pH to 7.5 |
| Pre-developing buffer | 100 mM Tris  100 mM NaCl  50 mM MgCl2  adjust pH to 9.8 |
| SSC (20x) | 3 M NaCl  0.3 M Na citrate dihydrate  adjust pH to 7.0 |
| Wash buffer | 1 % (v/v) SSC  50 % (v/v) formamide  0.1 % (v/v) Tween 20 |