

**Table S2. The Cyc pro-domain is required to ectopically induce *ntl***

RNA injected at the one-cell stage	Dose (pg)	n	I (%)	II (%)	III (%)	IV (%)
Cyc+	0.5	92	92	8		
Cyc <sup>pro</sup>	0.5	86	100			
Cyc <sup>mat</sup>	0.5	83	100			
Cyc <sup>pro</sup> +Cyc <sup>mat</sup>	0.5	89	100			
Activin <sup>pro</sup> Cyc <sup>mat</sup>	0.5	88	100			
Sqt+	0.5	96	80	20		
Sqt <sup>pro</sup>	0.5	87	100			
Sqt <sup>mat</sup>	0.5	92	100			
hNODAL	0.5	121	83	17		
hNODAL <sup>pro</sup>	0.5	90	100			
hNODAL <sup>mat</sup>	0.5	94	100			
Cyc+	5	91	7	30	56	7
Cyc <sup>pro</sup>	5	82	100			
Cyc <sup>mat</sup>	5	88	100			
Cyc <sup>pro</sup> +Cyc <sup>mat</sup>	5	93	100			
Activin <sup>pro</sup> Cyc <sup>mat</sup>	5	85	75	25		
Sqt+	5	96	4	16	80	
Sqt <sup>pro</sup>	5	90	100			
Sqt <sup>mat</sup>	5	87	100			
hNODAL	5	109	12	70	18	
hNODAL <sup>pro</sup>	5	91	100			
hNODAL <sup>mat</sup>	5	98	67	33		
Cyc+	25	95		27	42	31
Cyc <sup>pro</sup>	25	82	100			
Cyc <sup>mat</sup>	25	80	100			
Cyc <sup>pro</sup> +Cyc <sup>mat</sup>	25	86	58	37	5	
Activin <sup>pro</sup> Cyc <sup>mat</sup>	25	93	12	32	48	8
Sqt+	25	88	4	96		
Sqt <sup>pro</sup>	25	83	100			
Sqt <sup>mat</sup>	25	80	77	7	6	10
hNODAL	25	104	5	34	25	36
hNODAL <sup>pro</sup>	25	89	100			
hNODAL <sup>mat</sup>	25	96	6	22	41	31

Zebrafish embryos injected with cyc, sqt or hNODAL mRNA at the one-cell stage were divided into four categories based on the expression pattern of *ntl*: endogenous *ntl* expression (I), mild (II) or massive (III and IV) expansion of the *ntl* expression domains. The dose of injected mRNA (pg), the total number of embryos examined (n) and the percentage of embryos (%) in each category are indicated.