

Table S2. Rescue of Noggin2 MO morphants by Wnt-, BMP- and Activin/Nodal-specific inhibitors

	misMONog2 +12 ng/μl pNog2-EGFP (control)	MONog2 +12 ng/μl pNog2-EGFP	MONog2 +4 ng/μl pNog2-tALK4 +8 ng/μl pNog2-EGFP	MONog2 +12 ng/μl pNog2-tALK4	MONog2 +4 ng/μl pNog2-tBR +8 ng/μl pNog2-EGFP	MONog2 +12 ng/μl pNog2- tBR	MONog2 +4 ng/μl pNog2- Dkk1 +8 ng/μl pNog2-EGFP	MONog2 +12 ng/μl pNog2- Dkk1	MONog2 +4 ng/μl pNog2-tALK4 +4 ng/μl pNog2-tBR +4 ng/μl pNog2- Dkk1
1	65,027	18,466	51,276	0,469	17,151	44,633	56,892	26,834	44,829
2	34,832	45,217	46,939	1,335	42,062	25,158	45,017	53,418	47,522
3	65,525	11,118	62,906	29,124	0,001	21,345	78,737	68,715	61,948
4	58,845	29,020	6,768	6,400	3,722	6,883	50,533	85,853	65,611
5	58,775	45,360	20,873	31,445	46,888	42,871	52,530	54,498	71,674
6	60,002	59,561	48,942	0,460	43,562	0,020	66,430	30,460	44,508
7	62,793	40,557	45,586	7,815	29,940	11,124	63,631	26,999	60,752
8	60,369	48,715	37,657	0,657	31,107	15,362	12,629	50,718	50,820
9	72,912	19,776	49,257	3,552	46,155	32,034	49,773	21,121	68,236
10	64,355	69,390	50,672	17,063	27,445	18,025	50,566	38,251	63,730
11	48,519	36,176	45,721	6,184	48,066	45,376	22,229	58,500	37,169
12	65,840	40,275	46,983	19,630	39,331	35,489	29,428	55,239	66,965
13	60,395	44,058	61,656	5,545	55,884	44,081	80,910	26,917	48,671
14	75,498	51,503	58,961	26,785	16,188	0,056	0,770	49,792	64,688
15	60,854	51,988	31,526	62,682	35,975	18,897	35,965	50,510	60,003
16	50,728	41,447	58,215	35,610	34,750	59,237	59,434	34,525	69,080
17	68,022	47,541	52,094	18,986	28,170	50,464	43,779	54,319	65,704
18	65,889	18,320	36,770	32,710	29,428	6,755	44,589	56,182	60,421
19	74,452	27,054	44,725	6,766	33,651	29,597	66,267	27,039	62,391
20	82,832	61,305	30,922	53,088	28,980	55,016	62,232	21,461	58,668
21	60,413	34,690	59,141	30,847	44,572	31,009	22,984	30,653	64,576
22	79,620	11,112	41,996	4,994	15,847	15,340	54,008	26,639	40,552
23	69,589	53,238	58,011	12,649	22,355	0,121	47,078	60,056	46,597
24	13,024	54,110	63,153	28,891	14,270	38,261	39,004	17,421	51,047
25	74,064	1,681	52	41,317	53,238	76,198	32,876	23,325	46,837
26	56,728	18,672	17,797	29,807	27,730	14,518	52,490	30,528	8,168
27	83,949	25,717	42,812	38,722	43,765	0,013	41,135		72,847
28	58,875	26,193	42,827	20,181	42,829	9,574	67,345		83,698
29	47,798	27,290	32,599	13,103	22,010	27,401	76,164		61,323
30	59,661	29,803	37,725	29,766	33,083	39,538	36,494		49,891
31	70,296	30,659	30,377	34,100	42,377	44,466	54,863		42,047
32	71,781	31,223	42,03	48,012	32,322	13,541	38,307		44,872
33	73,120	36,296	66,278	29,044	7,331	5,802	5,937		84,344
34	16,730	39,272	38,074	29,627	38,489	0,002	41,638		58,345

35	72,822	39,470	37,537	27,753	32,567	18,156	42,744	35,401
36	68,139	39,725	40,153	40,927	42,262	11,137	23,163	43,095
37	54,581	42,403	33,378	26,872	49,840	28,540	44,514	53,711
38	58,121	43,195	39,417	12,595	31,618	25,975	35,814	76,933
39	58,181	51,311	45,425	0,216	42,010	19,354	40,634	83,028
40	60,073	56,424	43,707	62,664	43,022	22,592	54,137	45,035
41	67,999	57,708	44,968	37,652	32,400	8,565	0,402	52,277
42	54,339	67,409	63,141			10,768	42,100	47,050
43	56,480	3,183	43,746			15,957	53,665	63,225
44	61,619	36,000	40,506			10,360	49,973	69,217
45	64,586	35,082	64,047			69,734	0,051	45,232
46	56,109	28,506	32,886			16,491	29,711	62,568
47	75,318	2,734	47,719			7,577	66,308	24,518
48	52,103	38,635	42,428			23,653	45,687	55,823
49	77,502	46,918	10,251			18,014	46,263	73,827
50	63,058	0,775	37,867			36,817	55,820	48,960
51	55,567	47,637	35,081			37,153	45,606	71,032
52	66,610	49,460	50,431			7,532	42,851	54,389
53	53,867	49,720	40,501				70,679	47,204
54	51,437	61,996	53,52				57,559	49,716
55	65,312	20,230	52,541				25,155	80,095
56	70,740	15,836	48,775					
57	48,217	38,242	18,157					
58	58,268	0,068	38,04					
59	65,264	26,268	51,181					
60	48,887	31,732	48,387					
61	61,216	0,919	43,896					
62	66,240	15,928	40,561					
63	45,598	33,877	24,745					
64	69,509	59,306	14,63					
65	93,091	0,541	27,696					
66	59,542	9,136	21,294					
67	60,517	4,276	39,524					
68	71,822	16,411	68,043					
69	64,274	17,824	49,478					
70	67,137	33,616	44,251					
71	53,646	45,420	44,21					
72	62,328	45,760	48,204					
73	75,883	26,202	71,378					

74	70,338	28,096	43,206
75	68,865	48,563	42,18
76	68,557	28,488	76,428
77	67,372	47,711	33,966
78	67,127	26,557	
79	65,744	30,373	
80	65,571	34,927	
81	65,375	25,396	
82	64,829	24,100	
83	61,133	43,964	
84	60,768	27,454	
85	57,998	44,971	
86	56,956	22,152	
87	54,117	42,108	
88	53,566	38,915	
89	51,875	33,208	
90	49,819	36,842	
100	48,652	23,845	
101	50,683	31,158	
102	77,589	10,862	
103	51,687	0,018	
104	63,411	29,426	
105	64,552	37,932	
106	45,910	36,187	
107	43,992	6,714	
108	65,040	24,739	
109	82,276	30,469	
110	83,382	26,549	
111	58,617	8,79	
112	34,942	55,674	
113	51,522	22,083	
114	63,192	38,312	
115	38,038	37,418	
116	67,590	51,857	
117	80,815	31,811	
118	82,619	25,885	
119	35,145	27,717	
120	81,160	42,72	
121	75,965	40,681	

122	38,627
123	20,302
124	20,212

Integrated density (ID) of in situ hybridization signal within *XBF1* expression domains of stage 26 *Xenopus laevis* embryos measured in arbitrary units by ImageJ image processing program (<http://rsb.info.nih.gov/ij/index.html>) and photographed at a constant light and exposition conditions by Leica M205 fluorescent stereomicroscope. For each type of injections, the data were collected from three to five independent experiments. Each series of experiments (experiments carried out in 1 day on the eggs obtained from the same pair of frogs) included control embryos, the antiNoggin2 MO-injected embryos and embryos injected by the MO mixed with different combinations of plasmids (from two to five combinations in different series of experiments). No significant difference (exciding 1%) between mean IDs of control embryos obtained in the same day from the same pair of frogs but processed for in situ hybridization in different vials were detected. Nevertheless, in each series of experiments, about 10 control embryos non-labeled by FLD were processed in the same vial with embryos injected by antiNoggin2 MO for to control possible difference between the in situ hybridization conditions. However, in neither of case was a significant difference revealed between these and the control embryos (labeled by FLD), which was processed separately. On the other hand, up to 15% difference in mean IDs was detected between control embryos from different series of experiments (obtained in different days from different pairs of frogs). Therefore, to normalize the results of different series of experiments, the data obtained in different days were normalized using the following procedure: (1) mean values of the *XBF1* expression area in control embryos were calculated for each series of experiments; (2) one of these control mean values was chosen (arbitrary) as a standard and the correction coefficients in respect to this standard were calculated for each of all the other control mean values; (3) IDs of all individual embryos in all series of experiments were normalized by using the corresponding correction coefficients.