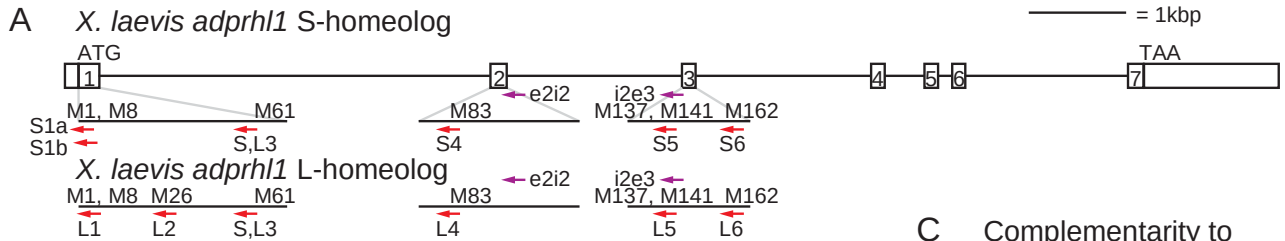


S5.

Adprh1 morpholinos - Position, sequence and activity in embryos



B Morpholino sequences

ATG	Morpholino	Sequence 5'-3'	Complementarity (n/25)	
			S-	L-homeolog
S1a	Adprh1-ATGMO1(S1a)	CCTTAAACTTCTCCATAGCAAGGGC	25	23
S1b	Adprh1-ATGMO1(S1b)	TGCAGCCTTAAACTTCTCCATAGCA	25	22
L1	Adprh1-ATGMO1(L1)	CATCGCAGCCTTAAACTTCTCCATG	23	25
L2	Adprh1-ATGMO2(L2)	GGATCTTTACTCCTGAAACACACAT	19	25
S,L3	Adprh1-ATGMO3(S,L3)	ATTAGAGTATTGTTACTCACTGGCC	25	25
S4	Adprh1-ATGMO4(S4)	GTTTTACCATGTCACGGTACAGGTC	25	23
L4	Adprh1-ATGMO4(L4)	GTTTCACCATGTCACGATACAGGTC	23	25
S5	Adprh1-ATGMO5(S5)	AGTATCTCATCCCAATACACATGGC	25	24
L5	Adprh1-ATGMO5(L5)	AGTATTTTCATCCCAATACACATGGC	24	25
S6	Adprh1-ATGMO6(S6)	GATGGTTATGAGTCATTCTCCCACT	25	24
L6	Adprh1-ATGMO6(L6)	GATGGTTATGCGTCATTCTCCCACT	24	25
S6Mis	Adprh1-ATGMO6Mis	GATAGTTATAAGTAATTCTACCAAT	20	19
RNA-splice				
e2i2	Adprh1-e2i2MO	AGGCTCAGCATCTTACAAACCTTTT	23	25*
e2i2Mis	Adprh1-e2i2MOMis	AAGCTAAGCATATTAAAAACATTTT	18	20
i2e3	Adprh1-i2e3MO	ACCTAAGAAACAACACTAGAGTCACTG	23	25*
i2e3Mis	Adprh1-i2e3MOMis	AACTAAAAACAATAGATCAATG	18	20

C Complementarity to ADP-ribosylhydrolase gene family members

	Complementarity (n/25)				
	<i>adprh1-like.2.1.S</i>	<i>adprh1-like.2.1.S</i>	<i>adprh1-like.2.1.S</i>	<i>adprh1-like.2.1.S</i>	<i>adprh1-like.2.1.S</i>
<i>adprh1.S</i>	17	17	17	x	9
<i>adprh1.L</i>	17	17	17	x	9
<i>adprh1-like.2.1.S</i>	19	19	19	x	x
<i>adprh1-like.2.1.S</i>	18	18	18	x	x
<i>adprh1-like.2.1.S</i>	23	21	20	20	12
<i>adprh1-like.2.1.S</i>	22	20	20	20	12
<i>adprh1-like.2.1.S</i>	19	17	15	15	11

D Effect of morpholinos on embryo development

(injection at 1-cell stage)

Key

- Heart defect 1 - inert ventricle
- Heart defect 2 - (beating) ventricle malformations
- Tail defect
- Other malformations
- Normal morphology

