

## **Supplemental Material to:**

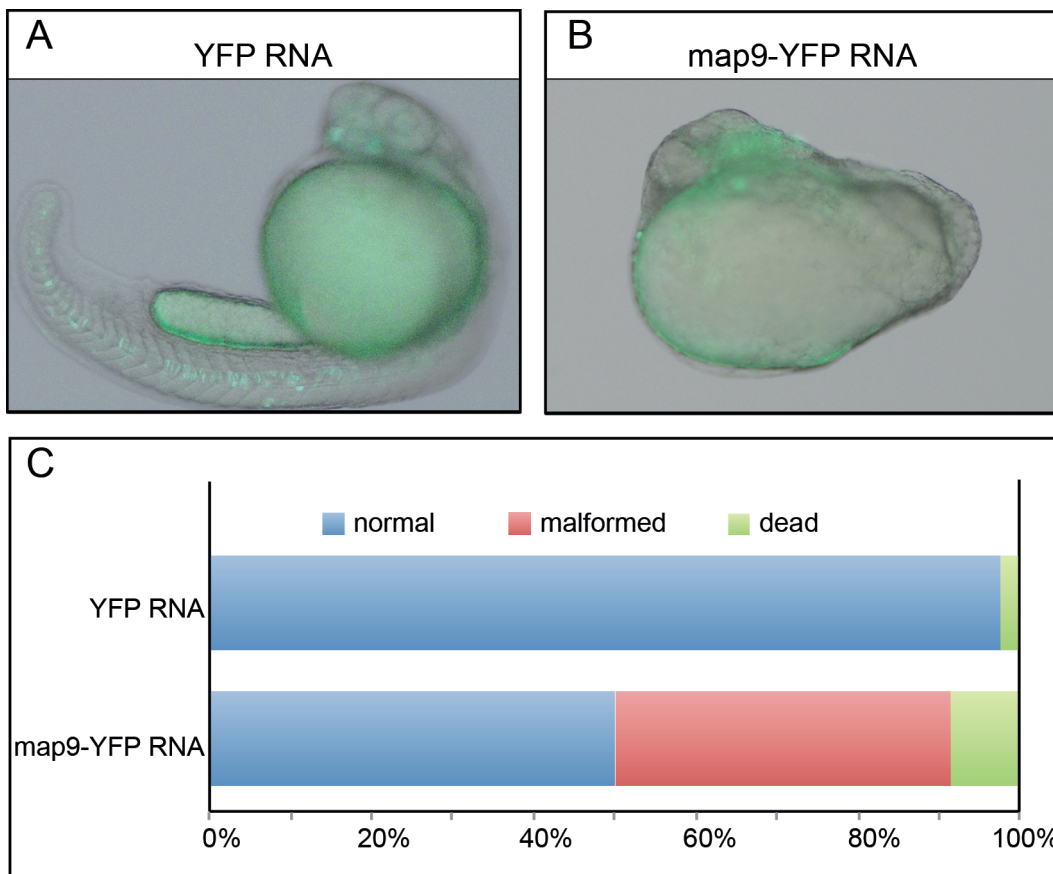
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**Microtubule-associated protein 9 (Map9/Asap) is required  
for the early steps of zebrafish development**

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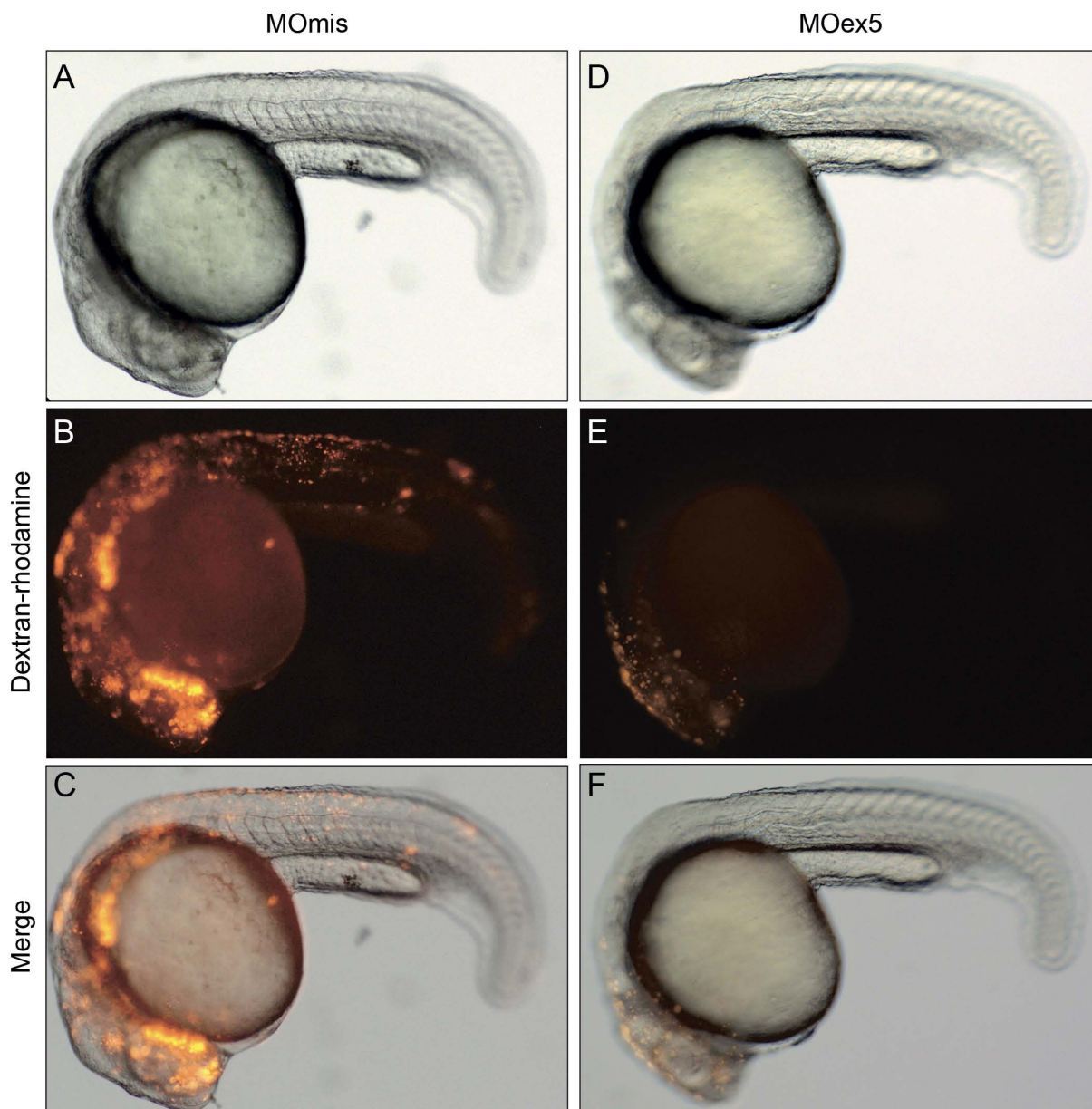
**<http://dx.doi.org/10.4161/cc.27944>**

**<http://www.landesbioscience.com/journals/cc/article/27944>**



**Figure S1**

Map9 overexpression is associated with developmental defects and embryo death. (A-B) Embryos were injected with 400 pg YFP RNA, n=42 (A) or *map9*-YFP mRNA, n=36 (B) at the 1-cell stage and imaged at 24 hpf. Scale bars, 200  $\mu$ m. (C) Percentages of normal, malformed and dead embryos at 24 hpf.



**Figure S2**

Morpholino-dependent depletion of *map9* in a random group of cells does not affect epiboly. One  $\mu\text{g}$  of MOex5 or control MOmis was co-injected with dextran-rhodamine (red) in a group of cells of 64-cell stage embryos. In contrast to embryos injected at the 1-cell stage (Figure 2) or injected directly in the YSL (Figure 6), these embryos do not exhibit developmental defects at 24 hpf.

Primer name	5'-3' sequence
map9 ZF1 fwd	ATGATGACGACGATATACTCA
map9 ZF2 rev	TTAGTGGCAGTGGAGATTC
map9 ZF8 rev	GCCCTCCTAGTAATTTCCAAG
map9 ZF18F	TCCAGTGCCATTGCCTTCAG
map9 ZFjctR	TTCTGTGGCAGCTGCTGACGAT
map9 ZFovF	TCTGTGGCAGCACTGCCAG
map9 ZFdelR1	TCTAACTGGCCAGTGTCACAC
aurka fwd	ATTGCAGATTTTTGGCTGGTC
aurka rev	TTCTCATCATGTGTTTTACCTTCAA
plk1 fwd	GCCATTCACAAAAGTCTCG
plk1 rev	GCCCTCCTAGTAATTTCCAAG
plk4 fwd	AGGCCTCATTCTCGCTACC
plk4 rev	CTGCTGTGACCGCTCATGTCT
shha fwd	GCAGAAGAAGACATCCGAAGA
shha rev	GGCCAGTGGTTCATTACAGA
smo fwd	AATTGGCCATGTGGTCTG
smo rev	CTTCATTCTGGCAACCCTTAG
igu fwd	TCAATGCGGTGACGTTCTGT
igu rev	AAGGCCTTTTCACAATGTTGG
gsc fwd	AGAGACGACACCGAACCATTT
gsc rev	GATTCCTCTGACGACGACCTT
oep fwd	TTCGTTGGACTGACCGGAGTT
oep rev	ATCCCTGAGGCGTTCATCGTA
sqt fwd	CCGGACACTTCTGACTGGA
sqt rev	TCGCTTGCTGATATGGAGGAC
cyc fwd	CTGCTCGGAGTGTTCGGAAAG
cyc rev	GTCAAAGATCGCCACGTAG
mezzo fwd	GCTCACGCTGTTCCAGAGAG
mezzo rev	TGTGGCCAGGGATTCAGAG
ntla fwd	CCTCGGGTTCGTACTGTGAG
ntla rev	TCCGGAAGAGTTGTCCATGT
sox17 fwd	TCCGCTCTCAGACTCCAAAT
sox17 rev	AATCGCTTGTTTTCGTTTTACC
sox32 fwd	ACGAAAGAGGAGCGCAGA
sox32 rev	CATTGCTTTCCATGTCTTGC
tarama fwd	TCAACCTCCAGATTCCCAAT
tarama rev	CTACCGGACCCCAACTACCT
charon fwd	CACAAAAGCGAGCGAAAAA
charon rev	AGCCCTCCTCCGTTATGC
dnah9 fwd	CGCTTCAGGTCTGGAACACT
dnah9 rev	TGAGCCTCGGCTGCTATC
lefty1 fwd	CCAAGTGTGTCCACTTCACAA
lefty1 rev	TCACGGTCTTTGTTGTTTTCA
lefty2 fwd	CCACACAGGATCCAAAGGA
lefty2 rev	GCTGGAGTTACAGTTGCC
spaw fwd	GTCCTGAGCTTGATTGCACA
spaw rev	CGTCTGGATGCAGAAAAC
foxa2 fwd	CAAAATGGAGGGACACGAAC
foxa2 rev	TGTTGCTGACCGAGGTGTAA
nipblA fwd	GAGGCTCCAGTCCCAAGAAT
nipblA rev	CCGGTTCTCCTTGACTTCC
nipblB fwd	GCTGACGGAGCAGTACTACGA
nipblB rev	TGATCACCCCTCTTCCTCACA
bon fwd	TTTTTCCAAACGCGGATATG
bon rev	TCCTGAAGCGCATAATCTGA
gata5 fwd	GGACGCCAGGGAACCTCTAC
gata5 rev	ACACGGCAGGTCATCCAG
eomesa fwd	CAAAAGGCTTCAGGGACAAAT
eomesa rev	AGTAGGAGAGGGCGTCAGTCT
eomesb fwd	CGCGAACATCAACACTTCA
eomesb rev	GTCGTCCGACACCTCCAC

**Table S1**

Sequences of the primer pairs used to quantify gene expression by qPCR.