Figure S3. Stat3 promotes cell proliferation and survival in the ectoderm of neurula embryos. TUNEL staining (A-D) or pH3 immunostaining (E-H) of embryos injected with a Stat3 MO7mis (15 ng), a Stat3 MO (15 ng), a Stat3 MO (15 ng) with Stat3-GR mRNA (200 pg) or Stat3-GR (200 pg) alone. No effect was observed in Stat3 MO7mis injected embryos (A, 85% unaffected, n = 21; E, 91%, n = 23). Note the strong increase of TUNEL staining and the reduction of pH3 staining (arrows) in Stat3 depleted embryos (B, 68% increased, n = 22; F, 55% reduced, n = 45 respectively). The Stat3 MO phenotype was efficiently rescued by co-injection of Stat3-GR (C, 15% increased, n = 26; G, 12% reduced, n = 24). Conversely, Stat3-GR injected embryos displayed an increased number of cycling cells (arrow, H, 60% increased, n = 41). No clear effect of Stat3-GR on apoptosis is observed due to the very low number of endogenous dying cells detectable by TUNEL at neurula stage (D). Neurula embryos are shown in dorso-anterior views.