

A

	xlfoxile	hFOXI1	zFoxil	zFoxi3a	zFoxi13b
xtfoxile	93 %	70 %	46 %	50 %	51 %

B

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hFoxil      MSSFDLPAPSPPRCSPQFPSSIGQEPPENLYYENFFHPQGVPSPPQSPFEGGGEYGATPN 60
xtFoxile    MSAFDPAHSPPRCGPQFPSSIGQEPPENIYCDSEIFHPQTMPSPPQSPSNFETADYSTAN
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hFoxil      PYLWFNGPTMTPPPYPGPNASPFLPQAYGVQRPLLPSVSGLGSDLGWLPIPSQEELMK 120
xtFoxile    PYLWLNGPSITPPPYPGPSNTSHFMPQSYGMQRQLLPNMHGLGSDLGWLPIPSQEELMK
*****:**:*****.*:* *:*:**:* *:*: *****

hFoxil      LVRPPYSYSALIAMAIIHGAPDKRLTSLQIYQYVADNFPFYNSKAGWQNSIRHNLSLND 180
xtFoxile    LVRPPYSYSALIAMAIIHGAPDKRLTSLQIYQYVADNFPFYNSKAGWQNSIRHNLSLND
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hFoxil      FKKVPRDEDDPGKGNWTLDPNCEKMFNNGNFRKRKRKSDVSSSTASLALEKTESSLPV 240
xtFoxile    FKKVPRDEDDPGKGNWTLDPNCEKMFNNGNFRKRKRKSDVSP-NGQISSDKPEGSPLN
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hFoxil      DSPKTTEPQDILDGASPGGTTSSPEKRSPPPSGAPCLNSFLSSMTAYVSGGSPTSHPLV 300
xtFoxile    ESPKNGEHHDM LGNSSPGTDDSEKR--SPPPSITPCLNNFLSSMTAYVNSANPVSR-SV
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hFoxil      TPGLSPEPSDKTGQNSLTFNSFSPLTNLSNHSGGDWANPMPTNMLS YGGSVLSQFSPHF 360
xtFoxile    PLGLTNEPSDRMGQNMVGLNSYTPLSNMPSHGGS-DWSSTISSSPFGYSSSVFNQFTPHF
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hFoxil      YNSVNTSGVLYPREGTEV
xtFoxile    YNTINANNTLYNREGTEV
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Figure S1 Homology of foxile

(A) Comparison of the protein sequence of *X. tropicalis* (xt) foxile to relatives in *X. laevis* (xl), human (h) and zebrafish (z). Foxile in *X. laevis* is 93% identical to the protein in *X. tropicalis*, whilst human FOXI1 is 70% identical. Zebrafish Foxil, Foxi3a and Foxi3b are much less homologous to *X. tropicalis* foxile.

(B) Full alignment of human FOXI1 with *X. tropicalis* Foxile. Amino acid sequence number is shown at the end of each line. Putative forkhead DNA binding domain is conserved and highlighted with a red line (position 123-217)