

Figure S1: Multiple alignment of the nucleotide sequences of zebrafish IRF3a, IRF3b and IRF3c. Identical residues are identified by stars, whereas similar residues are identified by single dots.

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IRF3a      ATTGTTTCATTGTTATTTTTTAATGTAGCCAATAAACAAATAAATCTTATTTTAAAGTGCT
IRF3b      -----
IRF3c      -----

IRF3a      AAATAAACACAGCAGGCCTGACACACAGAAAACACATTTTAAATCGTCTGTTGTTTACG
IRF3b      -----
IRF3c      -----

IRF3a      TTCTTTTTTAATGGTCGTCTCCGCCATCTTGTGGTCATGCAGGGTAAAATAACTTACGGT
IRF3b      -----
IRF3c      -----

IRF3a      GACGTGTGTAATGACGCGAAAAGGGGAAATCGAAACTGATATGGGTTTCCCGAGTAATGT
IRF3b      -----
IRF3c      -----

IRF3a      TTTAAACCTGATCGTAAAGCACAGTCTGCTGAATAAAGCTCAGTATTAAACAACATTGA
IRF3b      -----
IRF3c      -----

IRF3a      CAAGCAGTTCGTCTACTTACATCTCTTACATCTGAGGAAGAGCTCGCTGAAAACACAGC
IRF3b      -----
IRF3c      -----

IRF3a      AGGCCCAAAACACTGTCGCTTCTGTTTGCAAGGTCCTGTCTATTGATGAATGTTGTGCT
IRF3b      -----
IRF3c      -----

IRF3a      GTATAGTCTGACTGCATCATGACTCAAGCAAAAACCGCTGTTTCGTGCCCTGGTTGTATGAA
IRF3b      -----ATGACTCAAGCAAAAACCGCTGTTTCGTGCCCTGGTTGTATGAA
IRF3c      -----ACCATGACTCAAGCAAAAACCGCTGTTTCGTGCCCTGGTTGTATGAA
                *****

IRF3a      CAAATCCAGAGTGGACGTTATCCTGGAGTATGCTGGAAAAATGAAGACTGTACCCAGTTC
IRF3b      CAAATCCAGAGTGGACGTTATCCTGGAGTATGCTGGAAAAATGAAGACTGTACCCAGTTC
IRF3c      CAAATCCAGAGTGGACGTTATCCTGGAGTATGCTGGAAAAATGAAGACTGTACCCAGTTC
                *****

IRF3a      AGCATTCCCTGGAAACACGCTTTGAGACAGGACTCCAACAGCGACGATGTGCTCATATTC
IRF3b      AGCATTCCCTGGAAACACGCTTTGAGACAGGACTCCAACAGCGACGATGTGCTCATATTC
IRF3c      AGCATTCCCTGGAAACACGCTTTGAGACAGGACTCCAACAGCGACGATGTGCTCATATTC
                *****

IRF3a      AAGGCGTGGGCTCAGACTAGCGCTGCTGGTGATGGCAGATTGAATGGAGATCCGTCTGTG
IRF3b      AAGGCGTGGGCTCAGACTAGCGCTGCTGGTGATGGCAGATTGAATGGAGATCCGTCTGTG
IRF3c      AAGGCGTGGGCTCAGACTAGCGCTGCTGGTGATGGCAGATTGAATGGAGATCCGTCTGTG
                *****

IRF3a      TGGAAGAGAAACTTTCGCAGTGTCTTTCGCGCTAAAGGCTTCAAATGATATCTGACAAA
IRF3b      TGGAAGAGAAACTTTCGCAGTGTCTTTCGCGCTAAAGGCTTCAAATGATATCTGACAAA
IRF3c      TGGAAGAGAAACTTTCGCAGTGTCTTTCGCGCTAAAGGCTTCAAATGATATCTGACAAA
                *****

IRF3a      AAGAATGATGGCGCCGATCCACATAAAGTCTATCAGTTTCCCTCCGATCCTCATCTGCA
IRF3b      AAGAATGATGGCGCCGATCCACATAAAGTCTATCAGTTTCCCTCCGATCCTCATCTGCA
IRF3c      AAGAATGATGGCGCCGATCCACATAAAGTCTATCAGTTTCCCTCCGATCCTCATCTGCA
                *****

IRF3a      GCTTCAGGATCTGAGGGCTCTCAAGAACTGAT-----
IRF3b      -----
IRF3c      GCTTCAGGATCTGAGGGCTCTCAAGAACTGATTGATACCGGTAATATCTGGAAAATTT

IRF3a      -----
IRF3b      -----
IRF3c      CCGGAACGACTTTACCGGTATATTA AAAAAGCGCTGTTCTCACAGGCGAGGACATTACGG

IRF3a      -----
IRF3b      -----
IRF3c      AAATTTCCGGAAAAGAGCATTACACATCCATTCCAAAATACCGGATTACTTTTCGCATG

IRF3a      -----
IRF3b      -----
IRF3c      TCGAGATGTTCAATATGTGCGTGTGCTGGCGCTCACAGGCTGTTTCAAAGGCACACGC

IRF3a      -----ATTTACCACATCTGTATGTGGATAATGTGTTACAGCATCATTGATT
IRF3b      -----
IRF3c      AAAGCTTAAAGATTTACCACATCTGTATGTGGATAATGTGTTACAGCATCCCTTGATT

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IRF3a TGGACCAACATTTAACTGGACTACACCTCCAGGACCCATCAGCACGAGTCCATATCATT
 IRF3b -----GTCCATATCATT
 IRF3c TGGACCAACATTTTACTGGACTAAACCTTCAGGACCCATCAGCACACGCTATAGAATTT
 *** ** *

IRF3a TGAATCCAAATGACTTATATGTGGATCCAGGAACCCAGATATACGATTTTCAAGCAGTGG
 IRF3b TGAATCCAAATGACTTATATGTGGATCCAGGAACCCAGATATACGATTTTCAAGCAGTGG
 IRF3c TGAATCCAAATGACTTATATGTGGATCCAGGAACCCAGATATACGATTTTCAAGCAGTGG

IRF3a TCCCTATTGAAGCCATATCCTCCTCAGATGAAGGTGCTGTCGGTGGTTTGGGACAGATTT
 IRF3b TCCCTATTGAAGCCATATCCTCCTCAGATGAAGGTGCTGTCGGTGGTTTGGGACAGATTT
 IRF3c TCCCTATTGAAGCCATATCCTCCTCAGATGAAGGTGCTGTCGGTGGTTTGGGAAAAATTT

IRF3a CGCCAACTGAGGGAGCGATGGCTGTCAATCACATTTCTCGGGAATATCAACAGACTGCCA
 IRF3b CGCCAACTGAGGGAGCGATGGCTGTCAATCACATTTCTCGGGAATATCAACAGACTGCCA
 IRF3c CACCGACTGAGGGAGCGACAACGCAATCATAATTTCTCCAGAAATCAACAGACTGCCA
 * ** ***** ** *

IRF3a CTCAACCACATTTAGGAGCTGTACCTGATCACACTGCCATTCCTGAGCCAAATCTGGCGA
 IRF3b CTCAACCACATTTAGGAGCTGTACCTGATCACACTGCCATTCCTGAGCCAAATCTGGCGA
 IRF3c CTCAACCACATTTAGGAGCTGTAACTGATCACACTGCCATTCCTGAGCCAAATCTGGCGA

IRF3a CATTTTTTCGGATCAAGGTTTATTATAAAGGGAAAAATGGTGATGGAGCAGTTGGTGGAGA
 IRF3b CATTTTTTCGGATCAAGGTTTATTATAAAGGGAAAAATGGTGATGGAGCAGTTGGTGGAGA
 IRF3c CATTTTTTCAGATCAAGGTTTATTACAGAGGGAAAAATGGTGATGGAGCAGTTGGTGGAGA

IRF3a ACGACTCTGGTTTCAGACTGATGTACCACAGAAACATGGATGAGTCAGGCCTGCAGGATG
 IRF3b ACGACTCTGGTTTCAGACTGATGTACCACAGAAACATGGATGAGTCAGGCCTGCAGGATG
 IRF3c ACGACTCTGGTTTCAGACTGGTGTACCAC-----GAGTCAGGCCTGCAGGACA

IRF3a GTGCGGGTCTCCAGTGGTCACTTCTCCTCCAGCTGAAGGAATGCCGGATCAAATGCAGA
 IRF3b GTGCGGGTCTCCAGTGGTCACTTCTCCTCCAGCTGAAGGAATGCCGGATCAAATGCAGA
 IRF3c GTGCGGGTCTCCAGTAGTCACTTCTCCTCCAGCTGAAGGAATACCGGATCAAGTGCAGA
 **** *****

IRF3a CCAGGCTTACTAATGATATTCTGGATAATCTGGGTGGTCTGGAGATTCGGAGATCAGACG
 IRF3b CCAGGCTTACTAATGATATTCTGGATAATCTGGGTGGTCTGGAGATTCGGAGATCAGACG
 IRF3c CTGGGCATATAATAATATTCTGGATAACCTGGGTGGTCTGGAGATTCGGAGATCAGACG
 * ** *****

IRF3a GAGTGATTCACGGTCAACCGTTGGGGTCCAGCAGGATCTACTGGGGTCTGTGCAAGCATG
 IRF3b GAGTGATTCACGGTCAACCGTTGGGGTCCAGCAGGATCTACTGGGGTCTGTGCAAGCATG
 IRF3c GAGTGATTCACGGTCAACCGTTGGGGTCCAGCAAGATCTACTGGGGTCTGTGAAACATG

IRF3a AAAGAAGCCAAACACCCAGAGAAGTGTCCAAAAACACACCTCAACCCATTTACCTCATGA
 IRF3b AAAGAAGCCAAACACCCAGAGAAGTGTCCAAAAACACACCTCAACCCATTTACCTCATGA
 IRF3c AAAGAAGCCAAACACCCAGAGAAGTGTCCAAAAACACACCTCAACCCATTTACCTCATGA

IRF3a AAGATTACATTT-----
 IRF3b AAGATTACATTTCAGTGGTAGGCCGGTCAATTTTTTGGCCGAGGTCGATCTCAATAAAC
 IRF3c AAGATTACATTT-----

IRF3a -----AGGTTTGTGTCAGTTTATTCAGACAGGAGGTG
 IRF3b ATGGATGTCTGATGGTGTATCGTTCGTAGGTTTGTGTCAGTTTATTCAGACAGGAGGTG
 IRF3c -----AGGTTTGTGTCAGTTTATTCAGACAGGAGGTG

IRF3a AATCTCCTTCTTGCACTCTTACTTCTCCTGGGGGAGAAGTGGCCAGACCCATAAATGA
 IRF3b AATCTCCTTCTTGCACTCTTACTTCTCCTGGGGGAGAAGTGGCCAGACCCATAAATGA
 IRF3c AATCTCCTTCTTGCACTCTTACTTCTCCTGGGGGAGAAGTGGCCAGACCCATAAATGA

IRF3a AGCCTTGGGAGAAGAACTCATCATGATTGAGGTTAATCTGACCGCACTGGAGTTTTTGA
 IRF3b AGCCTTGGGAGAAGAACTCATCATGATTGAGGTTAATCTGACCGCACTGGAGTTTTTGA
 IRF3c AGCCTTGGGAGAAGAACTCATCATGATTGAGGTTAATCTGACCGCACTGGAGTTTTTGA

IRF3a AGTCTATGGCTGTTGAACAAGGAGCGTCTTCACTGCAGTCAGACGAGCTGCAGCTTTCCC
 IRF3b AGTCTATGGCTGTTGAACAAGGAGCGTCTTCACTGCAGTCAGACGAGCTGCAGCTTTCCC
 IRF3c AGTCTATGGCTGTTGAACAAGGAGCGTCTTCACTGCAGTCAGACGAGCTGCAGCTTTCCC

IRF3a TGGAGCAAATGATGGAGCTCTGCTAAAAACAACCTCCTGGGTTAACCTGTTTACACTGTG
 IRF3b TGGAGCAAATGATGGAGCTCTGCTAA-----
 IRF3c TGGAGCAAATGATGGAGCTCTGCTG-----

IRF3a GTCGTCGGATCCTCTTCTGATCTTTCTCCTCCATGGACAGATCTCTGAGCTCGGACAG

IRF3b -----
IRF3c -----

IRF3a CCGCACCAGCAGACCCTCTTTATTCAGTCCCATCGGCTGAATCACATTATCCCTGTTTAA
IRF3b -----
IRF3c -----

IRF3a GAAAAACACAAGAAGGTTTGAGAACCTAACAAAGGATCCTTCTGGAAAACTGAAACAA
IRF3b -----
IRF3c -----

IRF3a TTGATTGA
IRF3b -----
IRF3c -----

Figure S2: Multiple alignment of the protein sequences of zebrafish IRF3a, IRF3b and IRF3c-1. Identical residues are identified by stars, whereas similar residues are identified by single dots.

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IRF3a      MTQAKPLFVFWLYEQIQSGRYPGVCWKNEEDCTQFSIPWKHALRQDSNSDDVLI FKAWAQT
IRF3b      MTQAKPLFVFWLYEQIQSGRYPGVCWKNEEDCTQFSIPWKHALRQDSNSDDVLI FKAWAQT
IRF3c-1    MTQAKPLFVFWLYEQIQSGRYPGVCWKNEEDCTQFSIPWKHALRQDSNSDDVLI FKAWAQT
*****

IRF3a      SAAGDGRNLGDPVSWKRNFRSALRAKGFKMISDKKNDGADPHKVYQFPSPHSAASGSEG
IRF3b      SAAGDGRNLGDPVSWKRNFRSALRAKGFKMISDKKNDGADPHKVYQFPSPHSA-----
IRF3c-1    SAAGDGRNLGDPVSWKRNFRSALRAKGFKMISDKKNDGADPHKVYQFPSPHSAASGSEG
*****

IRF3a      SQETDISPHLYVDNVFTASFDLDQHLTGLHLQDPSARVHIILNPNLDLYVDPGTQIYDFQA
IRF3b      -----VHIILNPNLDLYVDPGTQIYDFQA
IRF3c-1    SQETD-----

IRF3a      VVPIEAISSSDEGAVGGLGQISPTEGAMAVNHISREYQQTATQPHLGAVPDHTAIPENL
IRF3b      VVPIEAISSSDEGAVGGLGQISPTEGAMAVNHISREYQQTATQPHLGAVPDHTAIPENL
IRF3c-1    -----

IRF3a      ATFFRIKVVYKGMVMEQLVENDSGFRLMYHRNMDESLQDGAGLPVVTLPPEAGMPDQM
IRF3b      ATFFRIKVVYKGMVMEQLVENDSGFRLMYHRNMDESLQDGAGLPVVTLPPEAGMPDQM
IRF3c-1    -----

IRF3a      QTRLTNDILDNLGGLEIRRSBGVIHGRWSSRIYWGLCKHERSQTPRELSKNTQPPIYL
IRF3b      QTRLTNDILDNLGGLEIRRSBGVIHGRWSSRIYWGLCKHERSQTPRELSKNTQPPIYL
IRF3c-1    -----

IRF3a      MKDYIS-----GLMQFIQTGGESPCTLYFFLGEKWPDPK
IRF3b      MKDYISGGRPVNFLAEVDLNKHGCLMVYRSVGLMQFIQTGGESPCTLYFFLGEKWPDPK
IRF3c-1    -----

IRF3a      MKPWEKKLIMIEVNLTALEFLKSMAVEQGASSLQSDLEQLSLEQMMELC
IRF3b      MKPWEKKLIMIEVNLTALEFLKSMAVEQGASSLQSDLEQLSLEQMMELC
IRF3c-1    -----

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Figure S3: Multiple alignment of the protein sequences of zebrafish IRF3a, IRF3b and IRF3c-2. Identical residues are identified by stars, whereas similar residues are identified by single dots.

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IRF3a      MTQAKPLFVFWLYEQIQSGRYPGVCWKNEEDCTQFSIPWKHALRQDSNSDDVLIKAWAQT
IRF3b      MTQAKPLFVFWLYEQIQSGRYPGVCWKNEEDCTQFSIPWKHALRQDSNSDDVLIKAWAQT
IRF3c-2    -----MFI-----IC-----
           :*          :*

IRF3a      SAAGDGRNLNGDPSVWKRNFRSALRAKGFKMI SDKKNDGADPHKVYQFPSPHSAASGSEG
IRF3b      SAAGDGRNLNGDPSVWKRNFRSALRAKGFKMI SDKKNDGADPHKVYQFP-----
IRF3c-2    ACAGAHRL-----FQRHTQSL-----
           :.* **      ::* .*

IRF3a      SQETDISPHLYVDNVFTASFDLDQHLTGLHLQDPSARVHI ILNPNDLYVDPGTQIYDFQA
IRF3b      -----SDPHSAVHI ILNPNDLYVDPGTQIYDFQA
IRF3c-2    ---KISPHLYVDNVFTASLDLDQHFTGLNLQDPSAHVYRILNPDDLYVDPGTQILDFQA
           .** : * : ** : *****

IRF3a      VVPIEAISSSDEGAVGGLGQISPTGAMAVNHI SREYQQTATQPHLGAVPDHTAIPEPNL
IRF3b      VVPIEAISSSDEGAVGGLGQISPTGAMAVNHI SREYQQTATQPHLGAVPDHTAIPEPNL
IRF3c-2    VVPIKAISSSDEGAVGGLGKISPTGATTANHNSPEYQQTATQPHLGAVTDHTAIPEPNL
           **** : ***** : ***** :.* * ***** : *****

IRF3a      ATFFRIKVYKGMVMEQLVENDSGFRLMYHRNMDSEGLQDGAGLPVVTLPPEAGMPDQM
IRF3b      ATFFRIKVYKGMVMEQLVENDSGFRLMYHRNMDSEGLQDGAGLPVVTLPPEAGMPDQM
IRF3c-2    ATFFQIKVYRGMVMEQLVENDSGFRLVYH---ESGLQDSAGLPVVTLPPEAGIPDQV
           **** .***** .***** :.* ***** .***** :.* :

IRF3a      QTRLNDILDNLGGLEIRRS DGVIHGHRWGSSRIYWGLCKHERSQTPRELSKNTQPPIYL
IRF3b      QTRLNDILDNLGGLEIRRS DGVIHGHRWGSSRIYWGLCKHERSQTPRELSKNTQPPIYL
IRF3c-2    QTGHTNNILDNLGGLEIRRS DGVIYGHWRGSSKIYWQCKHERSQTPRELSKNTQPPIYL
           ** ** :***** :***** .**** *****

IRF3a      MKDYIS-----GLMQFIQTGGESPCTLYFFLGEKWPDPK
IRF3b      MKDYISGGRPVNFLAEVDLNKHGCLMVYRSVGLMQFIQTGGESPCTLYFFLGEKWPDPK
IRF3c-2    MKDYIS-----GLMQFMQTGGESPCTLYFFLGEKWPDPK
           ***** ***** :*****

IRF3a      MKPWEKKLIMIEVNLTALEFLKSMAVEQGASSLQSDQLSLEQMMELC
IRF3b      MKPWEKKLIMIEVNLTALEFLKSMAVEQGASSLQSDQLSLEQMMELC
IRF3c-2    MKPWEKKLIMIEVNLTALEFLKSMAVEQGASSLQSDQLSLEQMMELC
           *****

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