

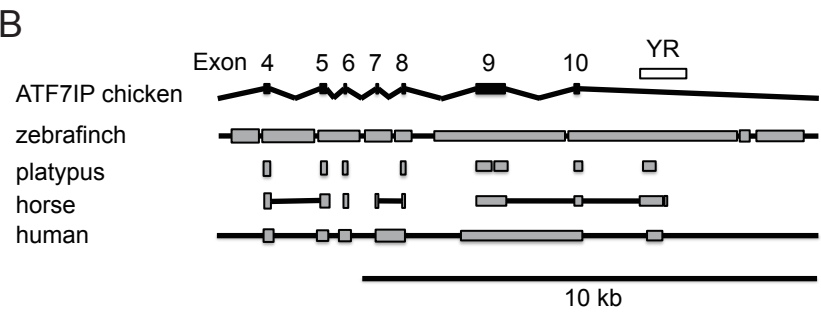
A

ATF7IP_Chicken	1	QLSEQKVVRCPVYTCG	IFDGTLLINCFEKLQKLEETSSSENKEAVEAAQMNFNFPEDVFLGLEEEEDDAKSI	KNTHKQTGWAAANLLQWLAKN-GKDP-SFELVPVSELNDI
ATF7IP_Zebranfinch	1	QLSDHKVVRCPVYTCG	IFDGTLLINCFEKLQKLEETSSSENKEAVEAAQTNFNFPEDVFLGLEEEEDDAKSI	KNTHKQTGWAAANLLQWLAKN-GKDP-SFELVPVSELNDI
AAVX01068049	1		-----MTEDQLAGDELLDAARRVSVTEEDVLFEEERNE-----	KNTHKQTDWVAANLQWLIEK-GQDE-HFVEMVSEELNG
Crypton-1_SP	1		-----MAELETLPRFQLDDQMRDLDSADS-----	KNTKNSVKFSMKIIFEDFLQVI-NTDLSVNKLSNSELNV
CryptonA-2_SP	1		-----MAAAAFKVPTEFELSTAQMEELLNGTDS-----	ASTKSIKFGFAKFAFLGLQ-ELGEI-TDRLRLDD
CryptonA-1.5K	1	NDCHPTAHNKLISFADFVFXRRQYFFV-----	VMASKRHAELESPSELNDILENDS-----	KRTRMATSNALSTFKQYLGSKFGVGEAGELTFATITLDTA
CryptonA-2.5K	1	MIHQHEFIFIIFITNTVFVFTVENASLGEATAQTTDSQGAEGASPRCREVPVTDQWRRITLETQNN-----	KNTAKTKLYDMRLLGQFLTKPEINAREIHEIPNPLETII	-----MKTKEEVAFVNDWKKSM-TQEKRDLDKIDPPSQLDAL
CryptonA-3.5K	1			
CryptonA-1_OL	1	-----MSDFVVSFNFLG	EFDNFDDWDAATEKERQEHQKREERRHKEVSPPEENFLEDDDE-----	VNTKKIKWANNIERDFLAQK-NMDI-NFENYNTATTLNES
ATF7IP_Chicken	110	LREFYCKIRN-HDGNYSVASYSKSMRAGLNRLHKMPYPYNRQ	CLMKDKFEFASANMVFVSMFLMLRLIQGKDETHHP-PIAADRLKIKL	SGVGLHSPVALLNKVWFDFQL
ATF7IP_Zebranfinch	110	LREFYTYIRN-HDGNYSVASYSKSMRAGLNRLHKMPYPYNRQ	CLMKDKFEFASANMVFMSVLMRLMQGKDETHHP-PIAADRLKIKQSGV	LHSPVALLNKVWFDFQL
AAVX01068049	74	LREFYGTVRN-HDGNYSYSKSIIRAGLNRLHKMPHRLRQ	CLMQDKFEFASANNVFLGLVLIKRLQKGKDETHHP-PIAADRLKIRTS	GVGLHSPVALLNKVWFDFQL
Crypton-1_SP	76	LQKFIYAGARR-KNGSYIMKMSLALIRFGLQRHFLN-----CNK	DIKHEDFSNSTRVFKFSFAMLQGEKGVVTHHP-AISAEQMDKIQ-----	GSGLDHPVLGVQDKVFMDFVM
CryptonA-2_SP	76	LCTFYSLSLRR-EDGSWYSKTKMQVIRYGVORHFLD-----LHN	DIRKATFSQSVRMFAFVSLKLLKKEGKSTKHKHP-AISASALMITY	QNSVSLDCTDPAGLQNVFDFMT
CryptonA-1.5K	92	LRTFYAEVET-QKGEYDEPTLSQLSLRYGIORYFNQPPMRRNF	DLVNGDEFADSRKMFVAVSLKLSGKGNVCKHP-AILPGLSLKTY	FSRYSTAPVLLVHVFVSLMT
CryptonA-2.5K	108	LCKFFISVVRK-PSGDDYEPTLSRLMSLSFERHLRL-HKMYMS	LSSIEFNEVRETRIKAKQKLLKDKGKGNLPRTAEATDEEIE	LWESGVSPEAIIINTWMFVNTV
CryptonA-3.5K	36	LSQFYFLGRK-KNGDEYDEPTLSISLYQSIDRYLRD-NDYGYS	IRGDAFSARRTLAAKRHKSKSAGFNGLPNKSPQ	TKQEEALLKAGQLGVDSDATAINTVYNNKT
CryptonA-1_OL	94	LRLFYASVQSTKEGGEYSVALSLRLRAGINRHL-----RDVNI	ISDTEVKSSNAVFAIMKRYRKSGKDTSSSHP-RIPESDLK	IRCSALSALSPDTPGLGLRVKWFDFQL
ATF7IP_Chicken	219	HFTKRGREILRLDLPDAFVVEKDKNGRRYAVF-RYPGKGNGE---	DPHKM---GKMYDMPGDPN-CPVFSLELYLSKLP-----	PEPPAFYLHPLKLTAEQ-----MKEQ
ATF7IP_Zebranfinch	219	HFAKRGREILRLDLPDAFVVEKDKNGRRYAMF-RYPGKGNGE---	DPQKM---GKMYDMPGDPN-CPVFSLELYLSKLP-----	PEPPAFYLHPLKLTAEQ-----MQEQ
AAVX01068049	183	HFAKRGREILRLDLPDAFVIRDPNGRRYAML-KYTGKGRNR-----	DPKLK-----GRMYDMPGDIN-CPVFSLELYLSKLP-----	PDPPAFYLHPLKLTAEQ-----IQEQ
Crypton-1_SP	171	YFCNRRGRENLEMTLSDSFDL-CEGGKGSITL-----KDT	LKNNRADKLEKSG---GGVMIPTNG-PR-CPVASFMYKDKLN-----	POCKSFWORPANAQAKRELKNSPSSS
CryptonA-2_SP	173	YFCNRRGRENLELKPDDFRL-ETDDEGLRYITL-KRDQTLKNNREDDVSN-	GGVMIYEPGSK-CPVESFLQVFSKLN-----KCPFLWQPKAKK-----	PEDG
CryptonA-1.5K	201	YFCNRRGREGQDLRGFSFMVSKDNGGKYVIG-VGSEYSKNNHCDDDGVS-	GGVMIYANNSPRHCPVRAFELYSKAN-----RCDAOLFPRDRNY-----	SADD
CryptonA-2.5K	216	HFLGLRGNTEHNNMCGWDSLCTDSGREGLEYFSERQKTRTGENPDRTRV-	KPKMWDVDPANPRCPVAIFKKYLSLRPAGYTNSDPPYIATHSRGL-----	PRPG
CryptonA-3.5K	144	LFLGLGNNEHRRQMEWGDVLSQSGE-EFLVYNERLKTGRHE-PNTRFS-	APKAYATPKTDPICPVRAYKAAAHPRDRMNCSSAPFELYEYVPC-----	TIAK
CryptonA-1_OL	198	CLARRRGREGCRELTMASTFISHREAGAEYLSL-SHNPDTKNNKTPNDPHKQNLRG	FMFARPDPGL-CPVIOSEKKYISKCP-----	PDAKSFYLHPKRSV-----TAA

R

[illegible]

H R Y



C

Species	Accession	Sequence
Chicken	1	CAGCTCTCAGAACAAAAAGTAGTTCTGCTGTG--TGCGTATACCTGTGGCATATTGATGGTCAACCTTGATCAATTGTGTTGAAAAAGCAATTGAAACAGGAAGAGACTTCA
Zebrafish	1	CAGCTCTCAGATCATATAAGTAGTTCTGCTGTG--TGCGTATACCTGTGGCATATTGATGGTCAACCTTGATCAATTGTGTTGAAAAAGCAGTTGAAACAGGAAGAGACTTCCA
Platypus	1	CACCTTTTCAGAAATGGAGAGATTTCTCTGTG--TGCGTATGACCCGGGCACCTTGCGCTGGCGAGAGCTAGACCGGTCTTTTCAAA-----AACGTGAAAGAGACTTCC
Kangaroo	1	-----TGCGTATGACCCGGGCACCTTGCGCTGGCGAGAGCTAGACCGGTCTTTTGAAGCTAGATTAAACAGGAAGAAATTCCA
Horse	1	TGAGTTTGAGAAATCCAGAAATATTTTACTTTGCAATTGTATTAATGTAACCTGACATATTGTGATGAAAACAGCTATATACCGTCAATCCAAAGTCAAGCTGAATCA-----TAACTCTCA
Human	1	-----TGAAGTCTGTTGAAACAGGAAGTGAATTTGACTTCA
Macaque	1	-----AAAAAGACACTTGAAACAGGAAGTGAATTTGACTTCA
Tarsier	1	-----AAAAAGACACTTGAAACAGGAAGTGAATTTGACTTCA
Chicken	112	TCAGAAAAAAGAGAGCAGTAGAAGCAGCACAGATGAAATTTAACTTCCCGAGG--ATGTCCTCTTTGGCTTGGAGGAAGAGAGAGAGATGCTAAGAGCATCAAAAAACCC
Zebrafish	112	TCAGAAAAAAGAGAGCAGTAGAAGCAGCACAGACGAAATTTAACTTCCCTGAGG--ATGTCCTCTTTGGCTTGGAGGAAGAGAGAGAGATGCTAAGAGCATCAAAAAACCC
Platypus	103	GCTGAGAAAGAGCTGAGGCGCAG-----ACGATCCAAATGTTAACTCTCCGCTGGAGGATTTTCCGCCCTCTCTGTTGGAGAGAGGAGGAGCAGCAGCACTCCAAAAAGAGCCGA
Kangaroo	46	TCAGAAAAAAGAGAGAG-----ATAAATCAATCTCTAACTCTCTTTGGGAAATTTGTGCTTTGACTGTTGGAGAGAGAGATGTTGCCAAAAAATCTAGAAA-----TAACT
Horse	111	TCAGAACAGCAAGAGACAGT-----ACAACTAAATATTAAGCTCTCAAGTGG--ATATTTTATTTTGGCTTAGAGAGAGAGAGAAATTCACATCACTATGAAAAA---CG
Human	30	TCAGAAAGCAAGCAATAGT-----CAAAATTAATTAAGCTCTCAATAG--ATATTTTATTTTGGCTTCAAGAGAGAGAGAAATTTAAATCTCTGAGTAT-----AAAAATTCG
Macaque	31	TCAGAAAGCAAGCAATAGT-----CAAACTTAATTAAGCTCTCAATAG--ATATTTTATTTTGGCTTCAAGAGAGAGAAATTTAAATCTCTGAGTAT-----AAAAATTCG
Tarsier	21	TCAGAAAGCAAGCAATAGT-----CAAACTTAATTAAGCTCTCAATAG--ATATTTTATTTTGGCTTAGAGAGAGAGAAATTTCAATATTAAGTAT-----AAAAACACA
Chicken	223	CACAAGCAGACTGTGCTGGCAGCTAACTATTAAAGCAATGCTGCCAAAAATGGCAAGGATCCTAGCTTTGAATTGGTTCCAGTAAGTGAACCTCAATGATATTT-----TAA
Zebrafish	223	CACAAGCAGACTGTGCTGGCAGCTAACTATTAAAGCAATGCTGCCAAAAATGGCAAGGATCCTAGCTTTGAATTGGTTCCAGTAAGTGAACCTCAATGATATTT-----TAA
Platypus	208	CAGGAGAGCGCC-----GTGCTCTGGAGAGAGCTGAGCTCTCCCA-----TAGCAAGAGTTTCAGCTTTGAATGAGTTCCTCAAGTAAGTGAACCTCAATGATATTT-----TAA
Kangaroo	142	AGGAAAAAGCTACTCTGGTATATAGTCTTAAAGCAGTAACTAACTCAGAAAAATGGCAAAATCTCTACCTTTGAATGAGTTCCTAGTATAGTACTGAAAT-----TAACT
Horse	209	TGCAAGCAGTTTGACTAGGCAGCCAGCTGTGCAAGTAAATCTCTGTCAGAAAAA--TAGCAAGAGTTTCAGCTTTGAATGAGTTCCTACTATGAAATGAAATGAAATGTAAT-----TAACT
Human	131	TACAAAGCAGTT-----TGAGCAGCTGCTGTGAAGCAATGCCCTTACAAAAA--TAAACAGAGTTTCAGCTTTGAATCAGTGTCAATATGTATATGATAATAATAATAATATAC
Macaque	131	TACAAAGCAGTT-----TGAGCAGCTGCTGTGAAGCAATGCCCTTACAAAAA--TAAAGTTCAGCTTTGAATCAGTGTCAATATGTATATGATAATAATAATAATAATATAC
Tarsier	118	TAGAAAGCAGTTTGGCTGAGCAGTTAGCTGTGAAGCAATGCCCTTACAAAAA--TAGAAAAATTTTGGCTTTGAATGAGTGCAGTTATGATGTGAATAATACATAAAA--CAG
Chicken	332	GAGAGTTTATTTGCAAAATAAGGAATCATGATGGAAATACCTACAGTTGTGGCAAGCTACAGAGTCAATGCGTGTCTGGCTTTAAACCGGCATCTCAAAATGCCACCTTATAATCTGTC
Zebrafish	332	GAGAGTTTATTTACCAATAAGGAATCATGATGGAAATACCTACAGTTGTGGCAAGCTACAGAGTCAATGCGTGTCTGGCTTTAAACCGGCATCTCAAAATGCCACCTTATAATCTGTC
Platypus	-----	-----
Kangaroo	-----	-----
Horse	317	GCACATTTTATATATAATGAAAAACCATATGGAGGTATACAAAGTGTCTGCCAGTTATAAATCTCTGCTTTGCTGGTTT-----
Human	240	AGGAGTTTATTTGTAAATAAGAAACCAATATGGAGGTATATATGCTCTTCAGTATATAGGTATATGCTTTGCAAGCC-----
Macaque	239	AGGAGTTTATTTGTAAATAAGAAACCAATATGGAGGTATATATGCTCTTCAGTATATAGGTATATGCTTTGCAAGCC-----
Tarsier	231	GAGGCTTTTATATATAATAAGAAACCATATATGGAGGTATATATGCTCTTCAGTATATAGGTATATGCTTTGCAAGCC-----