

ADDITIONAL FILE 1

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Table S1: CR1a and CR1b consensus sequences

>Croc_CR1a_Consensus

CTCAAGCAAATCCCGGGACGTCATTCTCCCCTTGACTCGGCCTTGGTGAGGCCGCAGCTGGAGTACTGCGTCCAGTTTTGGGC
TCCACAATTCAAAAAGGATGTGGAGAAGCTTGAGAGAGTCCAGAGGAGAGCCACGCGCATGATCAGAGGTCAGGAAAACAG
ATCTTACGATGACAGGCTGAGAGCCATGGGACTCTTTAGCCTGGAAAAGCGCAGGCTCAGGGGTGATCTGATGGCCACCTAT
AAGTTTATCAGGGGTGACCACCAGGATCTGGGGGAACGTTTGTTACCAGAGCGCCCCAAGGGATGACGAGGTCGAACGGTC
ACAACTCCTGCAAGACCGTTTCAGGCTGGACATAAGGAAGAATTTCTTACTGTCCGAGCCCCAAGGTCTGGAACAGTCTG
CCAGCGGAGGTGGTTCAAGCACCTACATTGAACACCTTCAAGAGTAAATTGGATGCTTATCTTGCTGGGATCCTATGACCCAG
CTGACTTCCTGCCCTTTGGGC

>Croc_CR1b_Consensus

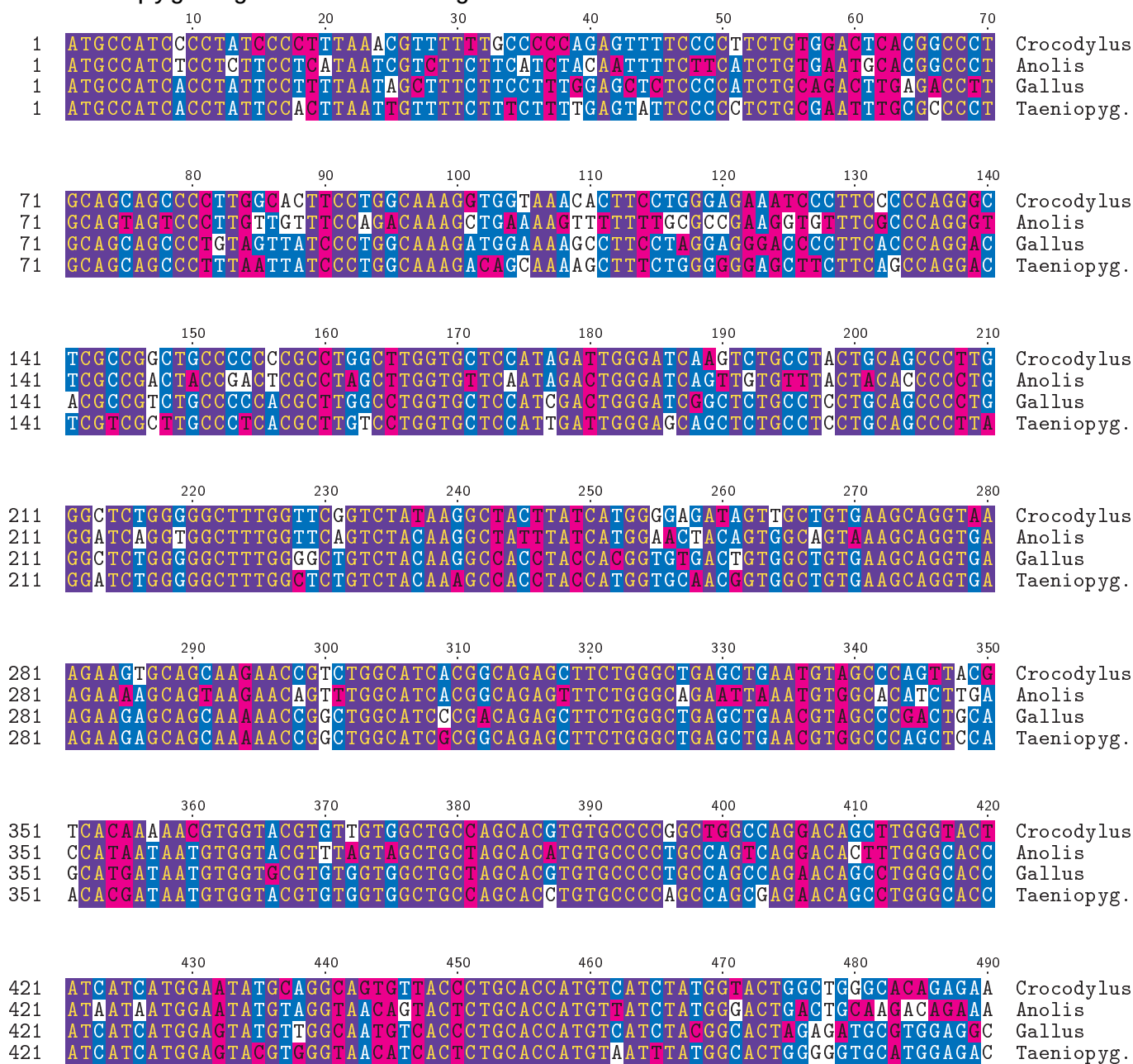
GACGAATAGGTCCAAGGAGGTGATACTTCCCCTCTATCGGGCGCTGGTCAGACCGCAGCTGGAGTACTGCGTGCAATTCTGG
GCGCCGCACTTCACGAAGGATGCGGATAACCTGGAGAGGGTCCAGAGAAGGGCCACTCGTATGGTTAAGGGCCTGCAGGCC
AAGCCCTATGAGGAGAGACTAGAGAACTGGACCTTTTCAGCCTCCGCAAGAGAAGGTTGAGAGGCGACCTGGTGGCTGCCT
ATAAGTTCATCAGGGGGGCACAGAAGGGAATTGGTGAGTATTATTACCAAGGCCCCCGGGGGTTACAAGAAATAATGG
CCACAAGCTAGAAGAGAGCAGATTTAGATTGGATATTAGGAGGAACCTTCTCACAGTTCGAGTGGCCAAGGTCTGGAACGGG
CTCCAAGGGAGGTGGTGCTCTCCCCTACCCTGGGGGTCTTCAAGCGAAGGTTAGATGTGTATCTAGCTGGGGTAATGTAGGC
CCAGCACTTTTCTGCCTATGCAGGGGG

Table S2: Putative platypus C-mos consensus sequence*

>Putative platypus C-mos sequence, range=chr7:6550872-6553730
TAATTTCTATATATGCTGACTAGAAATGTCACAGATTCTGTTCTCTTCTGGTGTGTGTGTATCCTGACTGGAGTATACCAGT
GATTTTGTGGATCAATTATATTTAGGTTGCCATTTTTACAAGCTGAATGTTACACCTAATTATCCCTTAATAGGTTAAACAA
ATGTCTGCTGTCTGTGTTTCAGCTCTTCTGCCAGTAACTGCTGGAAGTTATTTAATGCAGCTGGAGGCTTACATTGACAGTCAT
TATGGCCTGCAAAGTGTGAAATGTTTCATTTTACTGCTGTGATCCCTGTAGTCTAAGGACTGATAACATTCAACGGAAGAGATT
TGAAAGTGCATTTTACTATAATTAGAACAATGGTGTAAATAGGCACATTATGAGGTGTACCGGGATACCCGGTTTATGCCGAA
ACCTAAGAGCTTGTGTTTTATAAAAATTTCACTTTTGTGTGTGAGGAAAATCTTTTCAGCTGCAAATGATTGGCCTTTCGTGTGGA
GATTATCCCCCACCACCCAAGTCTTCTGATAAACCTTCACACACACACACACACACCCCTCAAAGCAGCCACAGTTGT
AGCTCTTTTGAGAAAATGAAGCAAGGAAATAAAGGAACAATGGAGGGCAAGCAGGCTGTAGTGTTCAGGACTCGCTCAGC
TAGCTGGTGGGGTAGGGAGGTGGGGAAGAGAATAGTGGCTCCACTTCCCGTGTGGGGCTCCATGCCTTCTCCATCCCCCT
GACTCGTTCCTTCCCGAGAGTTTTCCCTCCTTGGACTCGCGGCCATGCAGCAGCCCTTGGAGCGGCTGGCCGAGCCGG
GGCCTCTCCTGGGTGGGACGCCTTCCCCAGGGCCCGCGGTACCCCGCGGCTGGCCTGGTGTTCATCGACTGGGAAG
GGGTGTGCTTCTTCAAGGCTGGGGGCGGGGGGTTGGCTCCGTCTACAAGGCCACCTACCACGGGTACGGTGGCCGT
CAAGCAGGTGAAGAAGTGCAGCAAGAACCGGCTGGCGTCCAGGCAGAGCTTCTGGGCCGAGCTGAACGTGGCCCGGCTCCG
CCACGCCAACGTCGTGCGGGTCTGGCTGCCAGCAGTGCACCCCGCTGACCATGACAGCCTGGGGACCATCATCATGGAG
TACACGGGCAGCACCACTGCATCAGTCATCTACGGGGCAGCTTGTCCAAGAGGAGGGCGGAGGCGGTGGGCAGAGG
GTGCTTAAACCTGGTCACTGTCTGAAGTACTCTGGATGTCGAAGCGGATTGCTCTTCTTCACTCCCAAGGCGTCTTCAC
TTGGACCTGAAGCCAGCCAACATCTTGATTACTGAGCGGGACCTGCAAAATCGGTGACTTCGGGTGCTCTCAGAGACTAGA
AGATCCGGTGGGCTCCGGCCCCCAGCACTGCCACCTGGGAGGCACCTACCCCATCGAGCCCCGAGCTCCTGAAGGGAGAG
ACGGTACCCCCAAAGCAGACATTTACTCTTTCGCTATCAGCTCTGGCAGATGGCCACCAAGGAGGTACCTTATCGGGGGA
CCGCCATATGTGGTCTACGCCGTGGTGGCCTATAACCTGCGCCCTTCCCTCTCGGCTGCCATCTTCTCCGAATCTCCCCCGGC
CAAAGGCTGCAGGGCATCATCGACCGCTGCTGGGCATCCAGCACCTGCATCGACCCACGCGGAACCTCTCCTCGTGACCT
CGGCTCTTGAGCGCTGATTTGGGCCGGCTCTACTCCTGAAACCTGCACCAAAACAGATGAGCCCTCTTGTGTTTTACCTGTC
TTGTTCTTGTTCTGGTTTTCTCGTTCTTTCGGTTCCAGAAGATGGCCAGGTAGAGGGAGGAAAATATGCTGTGGAATGGAAGT
TAACTCTTATAAAAAATAAAGTGACTTTAAAAGACAGTTTGTAGCCCTAGTTGAATCGCTTGACTAGGAAAACCTGGCCCA
GTTTTTAATCGGTAGTACTGGAGTGCTTACTCTGTGCAGAGCACTGTTCTAAGCACTAGGGATAGTACAAAAAAGAAGATAA
GATCCCTGTGTCCTTGAGAAGCATGGTCTACTAACTCCCCTCAAAGCCTCTCTGAACCTGCTCCATTTTAACCGATCCACTGT
TAAACCTATGCCAATGTGAACCTTATAAATGAGGGATTGCTCAAATGAACTTAGTTGAAATTTAAAGGAGTCCAAAGACTTC
AGAGCCATTTCTAGAAGCTAGGCAATGCTTTATCTCACTACTAGGTTAACTGTTCCCAATTCAAAGAATTTAAGCCAGCAGCT
GATGATCAAATTAGATATATCTATAAATACAATTATTTTAAAGCCCTTCTAAATCCTTTCTAATTCTTAAACCTCTGCTTATGATG
AGTTACTAAGAAGAACCCAGGATTGCAAAATTTGTGCTGCCTTATCACACTCCCTCAGTACTGAAAAATTAATCAAGCGACT
GTATTCCTGCTAATACTAAGCTGGCATCTAGCTATTTTGGTTTTAGGGTTAAAAAAAATGGGAAAATGAGCAACTTTGAAGT
TTGAAATAATGAGGGCTTGAAGCTCTGAGAAGCT

*Note that this sequence differs from that in the current (8/17/08) platypus assembly (see Materials and Methods for explanation).

Figure S1. MUSCLE nucleotide alignment of the complete coding regions of the *Anolis carolinensis*, *Crocodylus porosus*, *Gallus gallus*, and *Taeniopygia guttata* C-mos genes.



491	AGGAAAGATGATGATGGGGGAGGATGCAGCCAAAGAGGTCCTGAGCATGCCCTGAGTCCCTACGCTATTCTG	Crocodylus
491	AAAGTAAAGGACGATGGGCTTGGAACTGGCCATGTATCTTTGAGCATAACTGAGGCCATTAGGCTATTCTTG	Anolis
491	AGGGCGAGGAGGAGCAAGGAGGATGTGGGAGGAAGGCTCTGAGCATGGCGGAGGCTGTCTGCTACTCGTG	Gallus
491	AGGGGGAGGATGATGAAGAAGGATGTGGAAGGAAGGCCCTGAGCATGGAAACAGACTGTGTGCTACTCAATG	Taeniopyg.
561	TGACATTGTGACTGGCTTAGCCTTTCTTCACTCACAATGCATTGTGCACCTGGACCTGAAGCCTGCAAT	Crocodylus
561	TGACATTGTAGCAAGTCTCATCTTCCTTCATTTCGCAACGATTGTGCATTTGGATTAAAACTGCTAAT	Anolis
561	TGACATCGTACTGGCTTAGCCTTCCTTCACTCGCAGGGCATCGTGACCTCGACCTGAAGCCTGCAAT	Gallus
561	TGACATCATGACTGGCTTAGCCTTTCTGCACCTCAGGACATGTGCACCTGGACCTGAAGCCTGCAAT	Taeniopyg.
631	GTGTTCATCACTGAGCAGGGCTTGTGCAAGATCGGAGACTTCGGGTGCTCCCAAAACTGGAGGATGGCT	Crocodylus
631	GTATTCATCACTGAACAAAATATTTGCAAACTTGGAGACTTTGGATGCTCCCAAAACTACAGGATCTTG	Anolis
631	ATCCTCATCACTGAGCAAGGAGCGTGCAAGATCGGAGACTTCGGCTGCTCCCAAGACTGGAGGAGGGCT	Gallus
631	GTTTTATCACTGAGCAAGGAGTGTGCAAGATTGGAGACTTTGGGTGCTCCCAAAACTGGAGATGGCT	Taeniopyg.
701	TATCTCTGAGCCCCAATATTTGCCAGCAAGGGGGCACGTATACAACACCGTGCCCAAGAGCTCCTCAAGGG	Crocodylus
701	AATCATCAAGTCCACTACTTTTCTCAACAAGGTGGGACATACACCACCGTGCTCCTGAAGCTCCTTAAAGG	Anolis
701	TGTCCAGAGCCACCATGTTTGGCAGCAAGGGGGCACGTACACCACCGTGCTCCTGAGCTCCTCAAGGG	Gallus
701	CATCCAGAGCGCCCTGTGTTTGGCAGCAGGGGGCACATACACAACCGTGCCCTGAGCTCCTCAAGGG	Taeniopyg.
771	GGAGAGGGTCAACCCTAAAGCAGACATTTACTCTTTTGCTATCACCTCTGGCAAGTGTTAAACACAAGAG	Crocodylus
771	TGAGAGAGTCACCCCTAAGGCTGACATTTACTCTTTTGCTATCACACTCTGGCAAATGGTTACGCAGCAA	Anolis
771	CGAGAGGGTCACTGCCAAAGCAGACATCTACTCTTTTGCTATCACCTCTGGCAGATCGTCATGCGGGAG	Gallus
771	GGAGAGGGTCACTGCCAAAGCAGACATCTACTCAATTTGCCATCACCTCTGGCAGATGGTCACGCGGGAG	Taeniopyg.
841	CAGCCCTATTTGGGGGAGCGCCAGTACGTGCTCTATGCTGTGGTGCCCTATAACTTGCGTCCCTCTCTGA	Crocodylus
841	GAACCTTATCTGGGCTGAGCGCCAGTATGTACTCTACTCTGTGGTAGCTTGTAATCTGCGCCCTTCACTAA	Anolis
841	CAGCCCTACTGGGCGAGCGGCAGTACGTGCTCTATGCTGTGGTAGCCTACAACTTGCGCCCTCTCTGG	Gallus
841	CAGCCGTACTGGGCGAGCGGCAGCACGTGCTCTACGCCGTGGTCGCCCTACAACCTGCGCCCTTGGCTGG	Taeniopyg.
911	GCGCTGCAGTCTTCTCTGGGTCACCTCAGGCCGCAGACTTGAGAGCATAAATTGGTAGCTGCTGGAGAGC	Crocodylus
911	CTGCAGATGTGTTTAAAGGTTCAAGCCACTGGACAAACAGCTTGAAACCTTAATTGAAAGTTGCTGGAATC	Anolis
911	CGGCCGCCATCTTCCACGAGTCAGCGCTGGGCCAAAGGCTTCGAGCATCATCAGCTGCTGCTGGAAGCG	Gallus
911	CTGCTGAGGAGTTCCACGGGTCAACAGCGGGCCAGACTCTGCACAGCATCATCAGCTGCTGCTGGAAGCG	Taeniopyg.

	990	1000	1010	1020	1030	1040	1050	
981	TGAGGCTGAGGAGCGCCCTAC	TGCAGCA	CAGCTGCTTCA	TAACTCTCTT	CCCTGCAGGATAGACTCTCG			Crocodylus
981	TGATGTTGCCAACGTCCTAGTGCAGAACTTCTCTCCAGAATATTCATTCTCTGTCTCTAAAAGTATAA							Anolis
981	TGACGTAGAGGAGCGCCCTCAGCGCGGCCAGCTGCTCC	CAGCCTCAGGGCCCTGAAGCAGAACCTCTAG						Gallus
981	CAATGCGGAGGAGCGCCTGCC	TGCAGAC	CAGCTGCTTC	CAGCCTCAGGGCCCTCAAGCAGAGCCTCTAG				Taeniopyg.

1051	TACTGA	Crocodylus
1051		Anolis
1051		Gallus
1051		Taeniopyg.

- X non conserved
- X similar
- X conserved
- X all match

Figure S2. MUSCLE amino acid alignment of the complete coding regions of the *Anolis carolinensis*, *Crocodylus porosus*, *Gallus gallus*, and *Taeniopygia guttata* C-mos genes.

