Supporting Information

Primers

The following primer pairs were used for amplification of cDNAs and genomic DNA fragments:

Human primers

BLCAP (RNA &DNA)
F : AATTGTGCAAGGCTTCCGTT
R: TCCCATTAGGTCGGTTCCTG

CYFIP2 - DNA
F: TCAGCATCTCACGAGCTGTGT
R: GAGACATTACGGCAGGCACTC

CYFIP2 - RNA
F : TCTACCTAATGGATGGAAATGTCAGTAAC
R: ATCCCGGATCTGAACCATCTG

FLNA - DNA
F: GACCTGAGACACGAGAAAAACTCC
R: CGGTCTTACACTCTTTCCCTGC

FLNA - RNA
F:AGATCTCTTTTGAGGACCGCAAGG

R: TGGTCAATTTCTGTGACATAGCACTCC

IGFBP7 - RNA
F: GAGGGCGAGCCGTGC
R: TATTCTCCAGCATCTTCCTTACTTAGAG

Mouse primers

BLCAP - DNA
F : CTGTTTGTTGTGTTGACTTTTC
R: GAGTGGCTGAACCACAGAGCG

BLCAP – RNA
F: GGCGTCGCCCGCCTGGGC
R: GAGTGGCTGAACCACAGAGCG

CYFIP2 – DNA
F: GCGAAGGCAGCCACCCCAAC
R: GACTTGTTCTCTTCATAGTGAGC

CYFIP2 – RNA
F: CCAAGAAGAGAATCAACCTTAGC
R: GACTTGTTCTCTTCATAGTGAGC

FLNA – DNA
F : GGTGACGCCCGCCGCCTTAC
R: GCCCAGGGCCAAGACCTG

FLNA – RNA
F: GGTGACGCCCGCCGCCTTAC
R: AAGATGCTGGCTGGTTGACC

Chicken primers

CYFIP2 – (DNA & RNA)
F: TCGGCGATATGCAGATAGAAC
R: GGGACACACACAGAAGCCAAG

FLNA – DNA
F: TCTGATGATGCTCGCAGGC
R: GGTCTCAGAGAACAAGGACG

FLNA - RNA
F: GCCCTTTGCCCCGTTCAG
R : GGTCTCAGAGAACAAGGACG

Mouse and Chicken sequence data

Mouse FLNA

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>mouse cds1    CCCGCCGCCTTACTGTTTCTAGTCTTCAGGAGTCAGGGTTAAAGGTCAA
>mouse cds2    CCCGCCGCCTTACTGTTTCTAGTCTTCAGGAGTCAGGGTTAAAGGTCAA
>mouse cds3    CCCGCCGCCTTACTGTTTCTAGTCTTCAGGAGTCAGGGTTAAAGGTCAA
>mouse cds4    CCCGCCGCCTTACTGTTTCTAGTCTTCAGGAGTCAGGGTTAAAGGTCAA
>mouse cds5    CCCGCCGCCTTACTGTTTCTAGTCTTCGGGAGTCAGGGTTAAAGGTCAA
>mouse cds6    CCCGCCGCCTTACTGTTTCTAGTCTTCAGGAGTCAGGGTTAAAGGTCAA
>mouse cds7    CCCGCCGCCTTACTGTTTCTAGTCTTCAGGAGTCAGGGTTAAAGGTCAA
>mouse cds8    CCCGCCGCCTTACTGTTTCTAGTCTTCAGGAGTCAGGGTTAAAGGTCAA
>mouse cds9    CCCGCCGCCTTACTGTTTCTAGTCTTCAGGAGTCAGGGTTAAAGGTCAA
>mouse cds10   CCCGCCGCCTTACTGTTTCTAGTCTTCAGGAGTCAGGGTTAAAGGTCAA
>mouse cds11   CCCGCCGCCTTACTGTTTCTAGTCTTCAGGAGTCAGGGTTAAAGGTCAA
>mouse cds12   CCCGCCGCCTTACTGTTTCTAGTCTTCAGGAGTCAGGGTTAAAGGTCAA
>mouse cds13   CCCGCCGCCTTACTGTTTCTAGTCTTCGGGAGTCAGGGTTAAAGGTCAA
>mouse cds14   CCCGCCGCCTTACTGTTTCTAGTCTTCAGGAGTCAGGGTTAAAGGTCAA
>mouse cds15   CCCGCCGCCTTACTGTTTCTAGTCTTCAGGAGTCAGGGTTAAAGGTCAA
>mouse cds16   CCCGCCGCCTTACTGTTTCTAGTCTTCAGGAGTCAGGGTTAAAGGTCAA
>mouse cds17   CCCGCCGCCTTACTGTTTCTAGTCTTCGGGAGTCAGGGTTAAAGGTCAA
>mouse cds18   CCCGCCGCCTTACTGTTTCTAGTCTTCGGGAGTCAGGGTTAAAGGTCAA
>mouse cds19   CCCGCCGCCTTACTGTTTCTAGTCTTCAGGAGTCAGGGTTAAAGGTCAA
>mouse cds20   CCCGCCGCCTTACTGTTTCTAGTCTTCAGGAGTCAGGGTTAAAGGTCAA
>mouse mRNA    CCCGCCGCCTTACTGTTTCTAGTCTTCAGGAGTCAGGGTTAAAGGTCAA
>mouse genome CCCGCCGCCTTACTGTTTCTAGTCTTCAGG
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Mouse CYFIP2

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>mouse cds1   CGACATGCAGATAGAGCTGGCCAGATACATTGAGACCAGTGCTCACTATGAAGAGAA
>mouse cds2   CGACATGCAGATAGAGCTGGCCAGATACATTGAGACCAGTGCTCACTATGAAGAGAA
>mouse cds3   CGACATGCAGATAGAGCTGGCCAGATACATTGAGACCAGTGCTCACTATGAAGAGAA
>mouse cds4   CGACATGCAGATAGAGCTGGCCAGATACATTGAGACCAGTGCTCACTATGAAGAGAA
>mouse cds5   CGACATGCAGATAGAGCTGGCCAGATACATTGAGACCAGTGCTCACTATGAAGAGAA
>mouse cds6   CGACATGCAGATAGAGCTGGCCAGATACATTGAGACCAGTGCTCACTATGAAGAGAA
>mouse cds7   CGACATGCAGATAGAGCTGGCCAGATACATTGAGACCAGTGCTCACTATGAAGAGAA
>mouse cds8   CGACATGCAGATAGAGCTGGCCAGATACATTGAGACCAGTGCTCACTATGAAGAGAA
>mouse genom CGACATGCAGATAGAGCTGGCCAGATACATTAAGACCAGTGCTCACTATGAAGAGAA
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Mouse BLCAP

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>m1  GGCAGAGATCATGTATTGCCTCCAGTGGCTGCTGCCCGTCCTCCTCATCCCCAAGCCCCTCAA
>m2  GGCAGAGATCATGTATTGCCTCCAGTGGCTGCTGCCCGTCCTCCTCATCCCCAAGCCCCTCAA
>m3  GGCAGAGATCATGTATTGCCTCCAGTGGCTGCTGCCCGTCCTCCTCATCCCCAAGCCCCTCAA
>m4  GGCAGAGATCATGTGTTGCCTCCGGTGGCTGCTGCCCGTCCTCCTCATCCCCAGGCCCCCCAA
>m5  GGCAGAGATCATGTGTTGCCTCCAGTGGCTGCTGCCCGTCCTCCTCATCCCCAAGCCCCTCAA
>m6  GGCAGAGGTCATGTGTTGCCTCCGGTGGCTGCTGCCCGTCCTCCTCATCCCCAAGCCCCTCAA
>m7  GGCAGAGATCATGTATTGCCTCCAGTGGCTGCTGCCCGTCCTCCCCATCCCCAAGCCCCTCAA
>m8  GGCAGAGATCATGTATTGCCTCCAGTGGCTGCTGCCCGTCCTCCTCATCCCCAAGCCCCTCAA
>m9  GGCAGAGATCATGTATTGCCTCCAGTGGCTGCTGCCCGTCCTCCCCATCCCCAAGCCCCTCAA
>m10 GGCAGAGATCATGTGTTGCCTCCGGTGGCTGCTGCCCGTCCTCCTCATCCCCAGGCCCCTCAA
>m11 GGCAGAGATCATGTATTGCCTCCAGTGGCTGCTGCCCGTCCTCCTCATCCCCAAGCCCCTCAA
>m12 GGCAGAGATCATGTATTGCCTCCAGTGGCTGCTGCCCGTCCTCCTCATCCCCAAGCCCCTCAA
>m13 GGCAGAGATCATGTATTGCCTCCAGTGGCTGCTGCCCGTCCTCCTCATCCCCAAGCCCCTCAA
>m14 GGCAGAGATCATGTATTGCCTCCAGTGGCTGCTGCCCGTCCTCCTCATCCCCAAGCCCCTCAA
>m15 GGCAGAGATCATGTATTGCCTCCAGTGGCTGCTGCCCGTCCTCCTCATCCCCAAGCCCCTCAA
>m16 GGCAGAGATCATGTATTGCCTCCAGTGGCTGCTGCCCGTCCTCCCCATCCCCAAGCCCCTCAA
>mg  GGCAGAGATCATGTATTGCCTCCAGTGGCTGCTGCCCGTCCTCCTCATCCCCAAGCCCCTCAA
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Chicken CYFIP2

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gg1brain TCGGCGATATGCAGATAGAACTGGCCAGATACATTAAGACCAGTGCTCACTATGAGGAGA
gg2brain TCGGCGATATGCAGATAGAACTGGCCAGATACATTAAGACCAGTGCTCACTATGAGGAGA
gg3brain TCGGCGATATGCAGATAGAACTGGCCAGATACATTAAGACCAGTGCTCACTATGAGGAGA
gg4brain TCGGCGATATGCAGATAGAACTGGCCAGATACATTGAGACCAGTGCTCACTATGAGGAGA
gg5brain TCGGCGATATGCAGATAGAACTGGCCAGATACATTGAGACCAGTGCTCACTATGAGGAGA
gg6brain TCGGCGATATGCAGATAGAACTGGCCAGATACATTAAGACCAGTGCTCACTATGAGGAGA
gg7brain TCGGCGATATGCAGATAGAACTGGCCAGATACATTAAGACCAGTGCTCACTATGAGGAGA
gg8brain TCGGCGATATGCAGATAGAACTGGCCAGATACATTGAGACCAGTGCTCACTATGAGGAGA
gg9brain TCGGCGATATGCAGATAGAACTGGCCAGATACATTGAGACCAGTGCTCACTATGAGGAGA
gg1liver TCGGCGATATGCAGATAGAACTGGCCAGATACATTAAGACCAGTGCTCACTATGAGGAGA
gg2liver TCGGCGATATGCAGATAGAACTGGCCAGATACATTAAGACCAGTGCTCACTATGAGGAGA
gg3liver TCGGCGATATGCAGATAGAACTGGCCAGATACATTAAGACCAGTGCTCACTATGAGGAGA
gg4liver TCGGCGATATGCAGATAGAACTGGCCAGATACATTAAGACCAGTGCTCACTATGAGGAGA
gg5liver TCGGCGATATGCAGATAGAACTGGCCAGATACATTAAGACCAGTGCTCACTATGAGGAGA
gg6liver TCGGCGATATGCAGATAGAACTGGCCAGATACATTAAGACCAGTGCTCACTATGAGGAGA
gg7liver TCGGCGATATGCAGATAGAACTGGCCAGATACATTAGGACCAGTGCTCACTATGAGGAGA
gg8liver TCGGCGATATGCAGATAGAACTGGCCAGATACATTAAGACCAGTGCTCACTATGAGGAGA
genomic  TCGGCGATATGCAGATAGAACTGGCCAGATACATTAAGACCAGTGCTCACTATGAGGAGA
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Chicken FLNA

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gg1brain-    TGATGATGCTCGCAGGCTGACTGTCACTAGCCTTCAGGAGTCTGGATTAAAAGTTAAT
gg2brain-    TGATGATGCTCGCAGGCTGACTGTCACTAGCCTTCGGGAGTCTGGATTAAAAGTTAAT
gg3brain-    TGATGATGCTCGCAGGCTGACTGTCACTAGCCTTCGGGAGTCTGGATTAAAAGTTAAT
gg4brain-    TGATGATGCTCGCAGGCTGACTGTCACTAGCCTTCGGGAGTCTGGATTAAAAGTTAAT
gg5brain-    TGATGATGCTCGCAGGCTGACTGTCACTAGCCTTCGGGAGTCTGGATTAAAAGTTAAT
gg6brain-    TGATGATGCTCGCAGGCTGACTGTCACTAGCCTTCAGGAGTCTGGATTAAAAGTTAAT
gg7brain-    TGATGATGCTCGCAGGCTGACTGTCACTAGCCTTCAGGAGTCTGGATTAAAAGTTAAT
gg8brain-    TGATGATGCTCGCAGGCTGACTGTCACTGGCCTTCGGGAGTCTGGATTAAAAGTTAAT
gg9brain-    TGATGATGCTCGCAGGCTGACTGTCACTAGCCTTCGGGAGTCTGGATTAAAAGTTAAT
gg10brain-   TGATGATGCTCGCAGGCTGACTGTCACTGGCCTTCGGGAGTCTGGATTAAAAGTTAAT
gg1liver-    TGATGATGCTCGCAGGCTGACTGTCACTAGCCTTCGGGAGTCTGGATTAAAAGTTAAT
gg2liver-    TGATGATGCTCGCAGGCTGACTGTCACTAGCCTTCAGGAGTCTGGATTAAAAGTTAAT
gg3liver-    TGATGATGCTCGCAGGCTGACTGTCACTAGCCTTCAGGAGTCTGGATTAAAAGTTAAT
gg4liver-    TGATGATGCTCGCAGGCTGACTGTCACTAGCCTTCAGGAGTCTGGATTAAAAGTTAAT
gg5liver-    TGATGATGCTCGCAGGCTGACTGTCACTAGCCTTCAGGAGTCTGGATTAAAAGTTAAT
gg6liver-    TGATGATGCTCGCAGGCTGACTGTCACTAGCCTTCAGGAGTCTGGATTAAAAGTTAAT
gg7liver-    TGATGATGCTCGCAGGCTGACTGTCACTAGCCTTCAGGAGTCTGGATTAAAAGTTAAT
gg8liver-    TGATGATGCTCGCAGGCTGACTGTCACTAGCCTTCAGGAGTCTGGATTAAAAGTTAAT
gg9liver-    TGATGATGCTCGCAGGCTGACTGTCACTAGCCTTCAGGAGTCTGGATTAAAAGTTAAT
genomic   TCTGATGATGCTCGCAGGCTGACTGTCACTAGCCTTCAGG--------------------
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Secondary structure as predicted by MFOLD

CYFIP2

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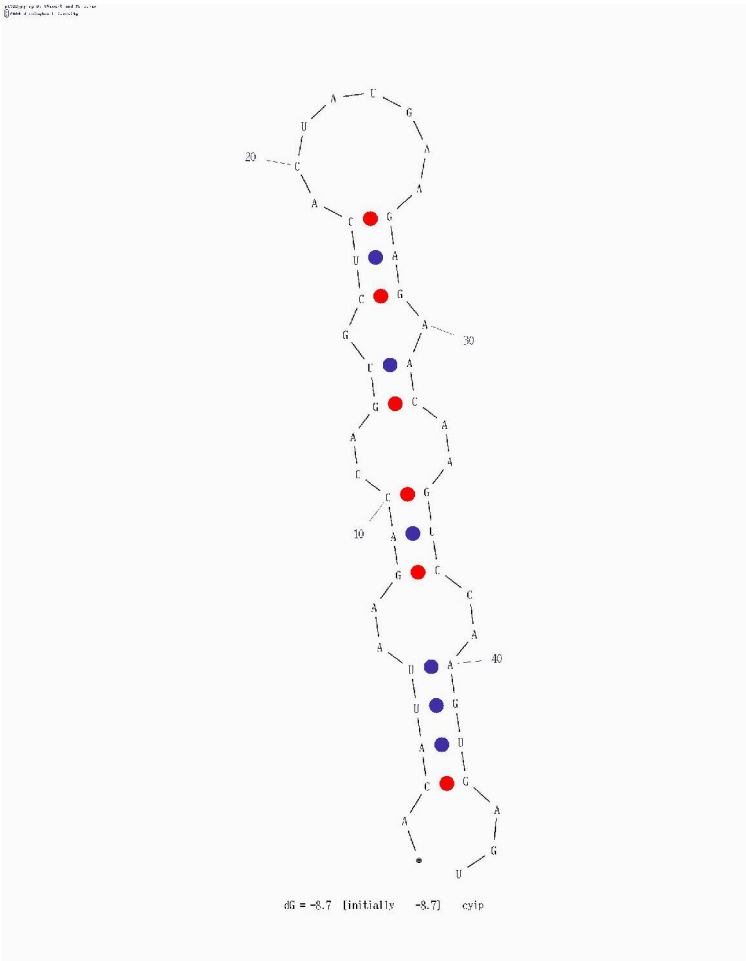

FLNA

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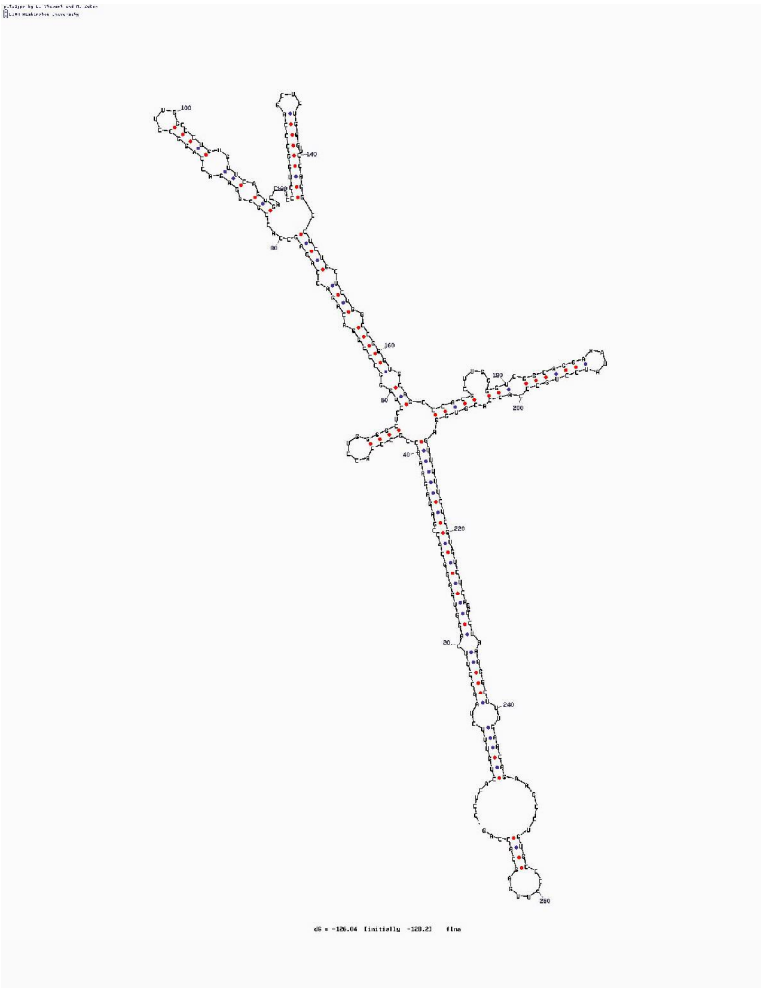

BLCAP

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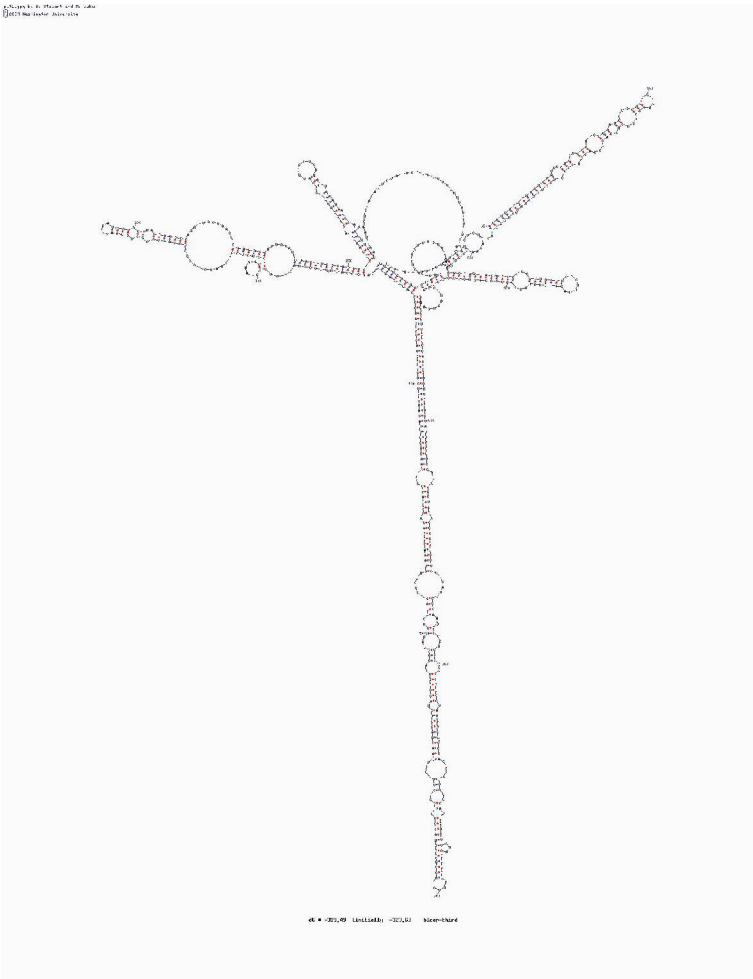

IGFBP7