## **Supporting Information**

## Gibby et al. 10.1073/pnas.0810952106

TAS PNAS

Α				
	hBP1 chBP1		MKICSLTLLSFLLLAAQVLLVEG-KKKVKNGLHS-KVVSEQKDTLGNTQIKQKSRPGN 56 MWIKNVGLLCVLILVSQMLLASCERQKERRRGKQGIEHGGKKQAESNPEREKGRKPKGGK 60 * * ** ** * * * * * *	5 D
	hBP1 chBP1		1 2 3 KGKFVTKDQANCRWAATEQEEGISLKVECTQLDHEFSCVFAGNPTSCLKLKDER-VY 11 ASPKGKFKSKENADCSWAVTDMS-AATVHIECRNGDSAFWCEFSGDPSACPHYAANQKSY 11 **** * * * * * * * * * * * * * * * *	12 19
	hBP1 chBP1		4 5 WKQVARNLRSQKDICRYSKTAVKTRVCRKDFPESSLKLVSSTLFGNTKPRKEKTEMSPRE 17 WKQVSRSLKKQKQICQDPRSILKPKICRKGPRGAHLKLTRSSLLAAVDPAKGHPAHHAAE 17 **** * * ** ** ** ** ** ** ** ** ** **	72 79
	hBP1 chBP1		6 7 8 HIKGKETTPSSLAVTQTMATKAPECVEDPDMANQRKTALEFCGETWSSLCTFFLSIVQDT 23 DAQGPAASETGKQPEHSPPDCVEDVDYIDQRKVAEEYCPESLLSLCNFFITMVQDK 22 * * ** * * *** * * * * * * * *** ***	32 24
	hBP1 chBP1		SC 234 KC 237	
в	hBP2 chBP2		1 MKFVPCLLLVTLSCLGTLGQAPRQKQGSTGEEFHFQTGGRDSCTMRPSSLGQGAGEVWLR 6( MKRVALLFLVVICGMGGLGQKLKPKKRSNGEEINFRTKTKDVCTMRISGDEEMKAR 5( ** * * ** * * ** * * * * * * * * * * *	0 6
	hBP2 chBP2		VDCRNTDQTYWCEYRGQPSMCQAFAADPKPYWNQALQELRRLHHACQGAPVLRPSVCREA 12 IECKGQGKSYWCEYTGMPLLCHPFQNNPKMYWNQITMELRKLPHACESTQMLKASMCQKA 11 * ***** * * * * * **** *** * *** * * * *	20 16
	hBP2 chBP2		GPQAHMQQVTSSLKGSPEPNQQPEAGTPSLRPKATVKLTEATQ-LGKDSMEELGKAKPTT 1 PVDALMKQVAAGVEPEDGANRDKSSQKTSASVRGAGKSSVKKTGKPAV 1 * * ** * * * * * * * * * *	79 64
	hBP2 chBP2		RPTAKPTQPGPRPGGNEEAKKKAWEHCWKPFQALCAFLISFFRG 223 LPRIKPTQHGQGSENETEAMKLAREHCWESLHEFCSYIIGFFRG 208 * **** * * * * * * * * * * * * * * *	
С			1 2 3 4	
	chBP1	55	KPKGGKASPKGKFKSKENADCSWAVTDMSAATVHIECRNGDSAFWCEFSGDPSACPHYAA 1	14
	chBP2	23	KPK + F++K C+ ++ ILC+ ++WEE++G P C + KPKKRSNGEEINFRTKTKDVCTMRISGDEEMKARIECKGQGKSYWCEYTGMPLLCHPFQN 8	32
	chBP1 1	115	NQKSYWKQVSRSLKKQKQICQDPRSILKPKICRKGPRGAHLKLTRSSLLAAVDPAKG 1	171
	chBP2	83	NPKMYWNQITMELRKLPHACESTQ-MLKASMCQKAPVDALMKQVAAGVEPEDGANR 1	137
	chBP1 1	172	HPAHHAAEDAQGPAASETGKQPEHSPPDCVEDVDY-IDQRKVAEEYCPESLLS 2 + A + +TGK P P + + K+A E+C ESL	223
	chBP2 1	L38	DKSSQKTSASVRGAGKSSVKKTGKPAVLPRIKPTQHGQGSENETEAMKLAREHCWESLHE 1	197
	chBP1 2	224	CNFFI 229 C++ I	
	chBP2 1	L98	FCSYII 203	

**Fig. S1.** Amino acid sequence alignments of human and chicken BPs. (*A*, *B*) Human and *Gallus gallus* BP1 and BP2 alignments. The conserved domain of the FGF-BP protein family is *PFAM06473*. The conserved cysteine spacing pattern in the protein family is C-15/19-C-8-C-8-C-23/24-C-10/11-C-50–90-C-7-C. The respective 8 conserved cysteine positions are numbered from 1 to 8, and identical amino acids are indicated by an asterisk. The C-terminal 42 amino acids in human BP1 contain the FGF-binding domain (10). (C) Alignment of *chBP1* and *chBP2*. Twenty-six percent amino acid identity and 44% conservative replacements (+) were calculated by the BLAST algorithm at the National Center for Biotechnology Information. GenBank entry numbers are hBP1, NP\_005121; hBP2, NP\_114156; chBP1, XP\_420773, and chBP2, NP\_989778.



**Fig. 52.** *chBP1* binding to FGF2 and effect on colony formation of SW-13 cells. (A) Western blot for VP5-tagged protein harvested from *chBP1*- versus empty vector (control)-transfected cells. Actin served as a loading control. (*B*) Binding of *chBP1* to different concentrations of immobilized FGF2 relative to a negative control (epidermal growth factor, EGF). The bound *chBP1* was quantitated by ELISA. \*\*, P < 0.01. (*C*) Colony formation of SW-13 cells in soft agar. Control (empty vector)- and *chBP1*-transfected cells were compared. \*, P < 0.05.

## Table S1. Tissue expression of chBP1 and chBP2

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## Expression Level (number of samples)

chBP1	chBP2
+ (3)	+ (4)
+++ (3)	+ (4)
++ (3)	+ (2)
0 (3)	0 (4)
+++ (2)	+++ (4)
+ (2)	++ (4)
0 (3)	0 (5)
++ (2)	++ (2)
+++ (4)	+++ (5)
	$\begin{array}{c} + (3) \\ +++ (3) \\ ++ (3) \\ 0 (3) \\ +++ (2) \\ + (2) \\ 0 (3) \\ ++ (2) \\ +++ (4) \end{array}$

Expression of *chBP1* and *chBP2* mRNA in different tissues. Expression levels were determined by in situ hybridization as described earlier (37). Tissues harvested at the respective peak expression time were analyzed (see Fig. 2). Scoring was done in a blinded fashion.