

TABLE S1: HUMAN HOMOLOGS OF XRP1

Protein ID	Protein name	E-value with XRP1
XP_005258748.1	protein fosB isoform X1	1.1E-10
NP_004355.2	CCAAT/enhancer-binding protein alpha isoform a	1.5E-09
XP_011523007.1	hepatic leukemia factor isoform X2	8.3E-09
XP_016868299.1	cyclic AMP-responsive element-binding protein 5 isoform X5	0.00000011
XP_016876460.1	jun dimerization protein 2 isoform X1	0.00000038
NP_005186.2	CCAAT/enhancer-binding protein delta	0.00000059
NP_001181986.1	DNA damage-inducible transcript 3 protein isoform 2	0.00000083
NP_005243.1	proto-oncogene c-Fos	0.00000014
XP_016881877.1	D site-binding protein isoform X1	0.00000024
NP_005429.1	fos-related antigen 1 isoform 1	0.00000042
NP_002117.1	hepatic leukemia factor isoform 1	0.00000057
NP_001254492.1	cAMP-responsive element modulator isoform 24	0.00000093
XP_016859226.1	fos-related antigen 2 isoform X3	0.0000013
NP_004895.2	cyclic AMP-responsive element-binding protein 5 isoform beta	0.0000019
NP_877962.1	cyclic AMP-dependent transcription factor ATF-4	0.0000023
NP_001343.2	D site-binding protein	0.0000023
NP_919047.2	cyclic AMP-responsive element-binding protein 3-like protein 2 isoform 1	0.0000025
NP_005244.1	fos-related antigen 2	0.0000026
XP_016883059.1	nuclear factor interleukin-3-regulated protein-like	0.0000037
NP_002220.1	transcription factor jun-B	0.0000050
NP_005375.2	nuclear factor interleukin-3-regulated protein	0.0000085
NP_061134.1	basic leucine zipper transcriptional factor ATF-like 3	0.000012
XP_016871216.1	cAMP-responsive element modulator isoform X21	0.000012
NP_612465.3	basic leucine zipper transcriptional factor ATF-like 2 isoform 1	0.000012
NP_001073007.1	X-box-binding protein 1 isoform XBP1(S)	0.000015
NP_001025458.1	cyclic AMP-dependent transcription factor ATF-3 isoform 1	0.000020
XP_005250598.1	cyclic AMP-responsive element-binding protein 3-like protein 2 isoform X1	0.000021
NP_036200.2	cyclic AMP-dependent transcription factor ATF-5	0.000022
XP_006718443.1	cyclic AMP-responsive element-binding protein 3-like protein 1 isoform X1	0.000023
NP_001243019.1	cyclic AMP-dependent transcription factor ATF-2 isoform 1	0.000024
NP_003207.1	thyrotroph embryonic factor isoform 1	0.000025
NP_443086.1	cyclic AMP-responsive element-binding protein 3-like protein 1	0.000030
NP_006390.1	basic leucine zipper transcriptional factor ATF-like	0.000031
NP_001123532.1	cyclic AMP-dependent transcription factor ATF-7 isoform 3	0.000034
XP_016878722.1	transcription factor Maf isoform X1	0.000060

NP_001273897.1	transcription factor jun-D isoform deltaJunD	0.000065
NP_004372.3	cyclic AMP-dependent transcription factor ATF-6 beta isoform a	0.000078
XP_016874825.1	cyclic AMP-dependent transcription factor ATF-1 isoform X3	0.000081
XP_016858890.1	cyclic AMP-responsive element-binding protein 1 isoform X8	0.00015
NP_002219.1	transcription factor AP-1	0.00016
NP_002219.1	transcription factor AP-1	0.00016
NP_005452.2	transcription factor MafB	0.00020
NP_031374.2	cyclic AMP-dependent transcription factor ATF-6 alpha	0.00025
NP_874386.1	cAMP-responsive element modulator isoform 4	0.00029
NP_001177.1	transcription factor BACH1	0.00048
XP_011521880.1	transcription regulator protein MafG	0.00048

Human homologs of Xrp1 (E-value < 0.001) ranked according to E-value. Homology detection was done with HHpred against the human proteome, using the default settings (three multiple-sequence alignment iterations with HHblits). Protein isoforms from the same gene were removed. All homologs are against the C-terminal, bZIP domain. None of the homologs contains an AT-hook motif.