

Supplementary Table 1. Protein factors that bind IL7R pre-mRNA*.

Protein factors that bound an RNA spanning exon 6 and adjacent intronic sequences
DHX9, ATP-dependent RNA helicase A
<i>ILF3, interleukin enhancer-binding factor 3</i>
<i>ILF2, interleukin enhancer-binding factor 2</i>
<i>hnRNP U, heterogeneous nuclear ribonucleoprotein U</i>
PTBP1, polypyrimidine tract-binding protein 1
<i>hnRNP R, heterogeneous nuclear ribonucleoprotein R</i>
<i>hnRNP A/B, heterogeneous nuclear ribonucleoprotein A/B</i>
<i>hnRNP A3, heterogeneous nuclear ribonucleoprotein A3</i>
<i>TOP1, DNA topoisomerase 1</i>
<i>hnRNP D-like, heterogeneous nuclear ribonucleoprotein D-like</i>
U2AF2, splicing factor U2AF 65 kDa subunit
EIF2AK2, interferon-induced, double stranded RNA-activated protein kinase
<i>hnRNPUL2, heterogeneous nuclear ribonucleoprotein U-like protein 2</i>
CPSF1, cleavage and polyadenylation specificity factor subunit 1
DDX3X, ATP-dependent RNA helicase DDX3X
hnRNP L, heterogeneous nuclear ribonucleoprotein L
DDX5, probable ATP-dependent RNA helicase DDX5
DDX21, nucleolar RNA helicase 2
hnRNP H3, heterogeneous nuclear ribonucleoprotein H3
RL22, 60S ribosomal protein L22
U2AF1, splicing factor U2AF 35 kDa subunit
<i>hnRNP A0, heterogeneous nuclear ribonucleoprotein A0</i>
<i>La, lupus La protein</i>
RSL1D1, ribosomal L1 domain-containing protein 1
FIP1, pre-mRNA 3' end processing factor FIP1
TOE1, target of EGR1 protein 1
SF3A1, splicing factor 3A subunit 1
ELAVL1, ELAV-like protein 1
<i>PURB, transcriptional activator protein Pur-beta</i>
DHX36, probable ATP-dependent RNA helicase DHX36
hnRNPUL1, heterogeneous nuclear ribonucleoprotein U-like protein 1
<i>NEP1, probable ribosome biogenesis protein</i>
SRSF9, Serine/Arginine-rich splicing factor 9
<i>SF1, splicing factor 1</i>
SF3B1, splicing factor 3B subunit 1
<i>hnRNP G, heterogeneous nuclear ribonucleoprotein G</i>
G3BP1, Ras GTPase-activating protein-binding protein 1
QKI, Quaking
Protein factors that bound an RNA spanning the first 40 nt of exon 6
NCL, nucleolin

hnRNP D0, heterogeneous nuclear ribonucleoprotein D0
hnRNP Q, heterogeneous nuclear ribonucleoprotein Q
YBX1, Nuclease-sensitive element-binding protein 1
<i>hnRNP A/B, heterogeneous nuclear ribonucleoprotein A/B</i>
snRNP70, U1 snRNP 70 kDa
NONO, non-POU domain-containing octamer-binding protein
<i>hnRNP A3, heterogeneous nuclear ribonucleoprotein A3</i>
H1.2, Histone H1.2
PABP2, polyadenylate-binding protein 2
SRP14, signal recognition particle 14 kDa protein
PABP1, polyadenylate-binding protein 1
<i>ILF3, interleukin enhancer-binding factor 3</i>
<i>ILF2, interleukin enhancer-binding factor 2</i>
<i>hnRNP D-like, heterogeneous nuclear ribonucleoprotein D-like</i>
<i>La, lupus La protein</i>
SmD1, small nuclear ribonucleoprotein Sm D1
<i>PURB, transcriptional activator protein Pur-beta</i>
Sm D3, small nuclear ribonucleoprotein Sm D3
Sm D2, small nuclear ribonucleoprotein Sm D2
FUS, RNA-binding protein FUS
snRNP F, small nuclear ribonucleoprotein F
SRP9, signal recognition particle 9 kDa protein
RSMB, snRNP-associated proteins B and B' and N
THOC4, THO complex subunit 4
GNB2L1, guanine nucleotide-binding protein subunit beta-2-like 1
H1.4, histone H1.4
<i>NEP1, probable ribosome biogenesis protein</i>
<i>hnRNP G, heterogeneous nuclear ribonucleoprotein G</i>
<i>TOP1, DNA topoisomerase 1</i>
DBPA, DNA-binding protein A
snRNP A, U1 small nuclear ribonucleoprotein A
MAP4, microtubule-associated protein 4
<i>SF1, splicing factor 1</i>
snRNP E, small nuclear ribonucleoprotein E
RL6, 60S ribosomal protein L6
1433E, 14-3-3 protein epsilon
SAFB1, scaffold attachment factor B1
RL18, 60S ribosomal protein L18
RSSA, 40S ribosomal protein SA
snRNP G-like, small nuclear ribonucleoprotein G-like
SRSF3, Serine/Arginine-rich splicing factor 3
PURA, transcriptional activator protein Pur-alpha
RL31, 60S ribosomal protein L31
H2B, histone H2B
DDX39B, spliceosome RNA helicase DDX39B

RBM3, putative RNA-binding protein 3
RS30, 40S ribosomal protein S30
CIRBP, cold-inducible RNA-binding protein
PABP4, polyadenylate-binding protein 4
<i>hnRNP A0, heterogeneous nuclear ribonucleoprotein A0</i>
RL29, 60S ribosomal protein L29
<i>hnRNPUL2, heterogeneous nuclear ribonucleoprotein U-like protein 2</i>
1433G, 14-3-3 protein gamma
ZN787, zinc finger protein 787
RL8, 60S ribosomal protein L8
H1X, histone H1x
<i>hnRNP C1/C2, heterogeneous nuclear ribonucleoprotein C1/C2</i>
RL30, 60S ribosomal protein L30
PTMA, prothymosin alpha
<i>hnRNP U, heterogeneous nuclear ribonucleoprotein U</i>
RL15, 60S ribosomal protein L15
<i>hnRNP U, heterogeneous nuclear ribonucleoprotein U</i>
RL7, 60S ribosomal protein L7
RS3, 40S ribosomal protein S3
RS20, 40S ribosomal protein S20

*Protein factors identified by RNA affinity chromatography and mass spectrometry either with RNAs that contain the exon 6 and flanking intronic sequences (top list) or the first 40 nt of exon 6 (bottom list) are shown. The following criteria were used to create this list of protein candidates: at least one unique peptide with probability of identification of 49-95% present in duplicate experimental samples and no unique peptides (or 1-2 unique peptides with low probability of identification (0-49%)) in the "no RNA control". Proteins that bound both RNAs are shown in italics. The lists are ranked based on the number of high-confidence unique peptides identified.