

SUPPLEMENTARY MATERIAL No.9

Characterization of the mRNA untranslated regions [UTR] of the *Trypanosoma cruzi* LYT1 isoforms derived by alternative trans-splicing

Suppl. 9. Multiple alignment of the complete 3' UTR-II sequence from *T. cruzi* isolates listed in Table 1 and those sequences obtained in this study from 058PUJ (GenBank ID: KU973678) and D.A. (GenBank ID: KU973679) isolates. Sequences were aligned with CLUSTAL Omega [1.2.4] program. Numbers on the right correspond to the nucleotide position in the sequence. An asterisk means that nucleotides are identical in all sequences show in the alignment. The motifs of RNA are indicated in bold. The polymorphisms present in the RNA motifs are shown in red.

JR_cl_4	AGUCUUAGCAUAGGGGAUGACAACAUAGUCG-UUUGCAGCUUCGUAGGAGUUGUACC	59
Dm28c	AGUCUUAGCAUAGGGGAUGACAACAUAGUCG-UUUGCAGCUUCGUAGGAGUUGUACC	59
Sylvio_X10/1	AGUCUUAGCAUAGGGGAUGACAACAUAGUCG-UUUGCAGCUUCGUAGGAGUUGUACC	59
KU973678.1	AGUCUUAGCAUAGGGGAUGACAACAUAGUCG-UUUGCAGCUUCGUAGGAGUUGUACC	59
KU973679.1	AGUCUUAGCAUAGGGGAUGACAACAUAGUCG-UUUGCAGCUUCGUAGGAGUUGUACC	59
CLBrenerEL	AAUCCUUAGCAUAGGGGAUGACAACAUAGUCG-UUUGCAGCUUCGUAGGAGUUGUACC	59
Esmeraldo	AGUCUUAGCAUAGGGGAUGACAACAUAGUCG-UUUGCAGCUUCGUAGGAGUUGUACA	60
Y	AGUCUUUGGCAUAGGGGAUGACAACAUAGUCG-UUUGCAGCUUCGUAGGAGUUGUACA	60
CLBrenerNEL	AAUCCUUAGCAUAGGGGAUGACAACAUAGUCG-UUUGCAGCUUCGUAGGAGUUGUACC	59
CLBrener	AGUCUUUGGCAUAGGGGAUGACAACAUAGUCG-UUUGCAGCUUCGUAGGAGUUGUACA	60
Tula.C12	AGUCUUUGGCAUAGGGGAUGACAACAUAGUCG-UUUGCAGCUUCGUAGGAGUUGUACA	60
Marinkellei	GGUUUAGCAUAGGGGAUGACAACAUAGUCG-UUUGCAGCUUCGUAGGAGUUGUACC	59
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JR_cl_4	UUCAGAGAAUUGUAUCUGCACAGGGUGCAGUGAUACACACGCACA--CACACAUAACAA	117
Dm28c	UUCAGAGAAUUGUAUCUGCACAGGGUGCAGUGAUACACACGCACA--CACACAUAACAA	117
Sylvio_X10/1	UUCAGAGAAUUGUAUCUGCACAGGGUGCAGUGAUACACACGCACA--CACACAUAACAA	117
KU973678.1	UUCAGAGAAUUGUAUCUGCACAGGGUGCAGUGAUACACACGCACA--CACACAUAACAA	119
KU973679.1	UUCAGAGAAUUGUAUCUGCACAGGGUGCAGUGAUACACACGCACA--CACACAUAACAA	119
CLBrenerEL	UUCAGAGAAUUGUAUCUGCACAGGGUGCAGUGAUACACACACACACACACACACAA	111
Esmeraldo	UUCAGAGAAUUGUAUCUGCACAGGGUGCAGUGAUACACACACACACACACACACAA	112
Y	UUCAGAGAAUUGUAUCUGCACAGGGUGCAGUGAUACACACACACACACACACACAA	114
CLBrenerNEL	UUCAGAGAAUUGUAUCUGCACAGGGUGCAGUGAUACACACACACACACACACACAA	111
CLBrener	UUCAGAGAAUUGUAUCUGCACAGGGUGCAGUGAUACACACACACACACACACACAA	118
Tula.C12	UUCAGAGAAUUGUAUCUGCACAGGGUGCAGUGAUACACACACACACACACACACAA	118
Marinkellei	UUCAGAGAAUUGUAUCUGCACAGGGUGCAAUGAUACA-----CACAUACAA	105
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JR_cl_4	AUACAUGUACACUU AUGUUUUUUGCCAUUCACCAAGAGGGGCGAGGAGUGAGUGGAAUUG	177
Dm28c	AUACAUGUACACUU AUGUUUUUUGCCAUUCACCAAGAGGGGCGAGGAGUGAGUGGAAUUG	177
Sylvio_X10/1	AUACAUGUACACUU AUGUUUUUUGCCAUUCACCAAGAGGGGCGAGGAGUGAGUGGAAUUG	177
KU973678.1	AUACAUGUACACUU AUGUUUUUUGCCAUUCACCAAGAGGGGCGAGGAGUGAGUGGAAUUG	179
KU973679.1	AUACAUGUACACUU AUGUUUUUUGCCAUUCACCAAGAGGGGCGAGGAGUGAGUGGAAUUG	179
CLBrenerEL	AUACAUGUACACUU AUGUCUUUUGCUAUCUACCAAGAGGGGCGAGGAGUGAGUGGAAUUG	171
Esmeraldo	AUACAUGUACACUU AUGUUUUUUGCUAUCUACCAAGAGGGGCGAGGAGUGAGUGGAAUUG	172
Y	AUACAUGUACACUU AUGUUUUUUGCUAUCUACCAAGAGGGGCGAGGAGUGAGUGGAAUUG	174
CLBrenerNEL	AUACAUGUACACUU AUGUCUUUUGCUAUCUACCAAGAGGGGCGAGGAGUGAGUGGAAUUG	171
CLBrener	AUACAUGUACACUU AUGUUUUUUGCUAUCUACCAAGAGGGGCGAGGAGUGAGUGGAAUUG	178
Tula.C12	AUACAUGUACACUU AUGUUUUUUGCUAUCUACCAAGAGGGGCGAGGAGUGAGUGGAAUUG	178
Marinkellei	AUACAUGUACACUU AUGUUUUUUGCUAUCUACCAAGAGGGGCGAGGAGUGAGUGGAAUUG	165
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JR_cl_4	AGCAAGCGGGUGAAAAGUUUCUUCUCACAGUCUCCCGGCGACGCGAAGAGCUGGAGAAG	237
Dm28c	AGCAAGCGGGUGAAAAGUUUCUUCUCACAGUCUCCCGGCGACGCGAAGAGCUGGAGAAG	237
Sylvio_X10/1	AGCAAGCGGGUGAAAAGUUUCUUCUCACAGUCUCCCGGCGACGCGAAGAGCUGGAGAAG	237
KU973678.1	AGCAAGCGGGUGAAAAGUUUCUUCUCACAGUCUCCCGGCGACGCGAAGAGCUGGAGAAG	239
KU973679.1	AGCAAGCGGGUGAAAAGUUUCUUCUCACAGUCUCCCGGCGACGCGAAGAGCUGGAGAAG	239
CLBrenerEL	AGCAAGCGGGUGAAAAGUUUCUUCUCACAAUCUCCCGGCGACGCGAAGAGCAGGAGGAG	231
Esmeraldo	AGCAAGCGGGUGAAAAGUUUCUUCUCACAGUCUCCCGGCGACGCGAAGAGCAGGAGAAU	232
Y	AGCAAGCGGGUGAAAAGUUUCUUCUCACAGUCUCCCGGCGACGCGAAGAGCAGGAGAAU	234
CLBrenerNEL	AGCAAGCGGGUGAAAAGUUUCUUCUCACAAUCUCCCGGCGACGCGAAGAGCAGGAGGAG	231
CLBrener	AGCAAGCGGGUGAAAAGUUUCUUCUCACAGUCUCCCGGCGACGCGAAGAGCAGGAGAAU	238
Tula.C12	AGCAAGCGGGUGAAAAGUUUCUUCUCACAGUCUCCCGGCGACGCGAAGAGCAGGAGAAU	238
Marinkellei	AACAAGCGGGUGAAAAGUUUCUUCUCACAGUCUCCCGGCGACGCGAAGAGCAGGAGAAU	225
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JR_cl_4	GGAGGUACG AUGCGAGAAGAAGAAAGAAAAA--AA-----AAAAAGAAA GAAGUAA	286
Dm28c	GGAGGUACG AUGCGAGAAGAAGAAAGAAAG--AA-----AAAAAGAAA GAAGUAA	287
Sylvio_X10/1	GGAGGUACG AUGCGAGAAGAAGAAAGAA--A--AA-----AAAAAGAAA GAAGUAA	283
KU973678.1	GGAGGUACG AUGCGAGAAGAAGAAAGAAAG--AA-----AAAAAGAAA GAAGUAA	289
KU973679.1	GGAGGUACG AUGCGAGAAGAAGAAAGAAAG--AA-----AAAAAGAAA GAAGUAA	289
CLBrenerEL	GGAGGUACA AUGCGAGAAGAAGAAAGAAAG--AAAA--AGAAAAAAA GAAA GAAGUAA	289
Esmeraldo	GGAAAGUACA AUGCGAGAAGAAGAAAGAAAG--AAAGGAAAAAAA UAA GAAGUAA	291
Y	GGAAAGUACA AUGCGAGAAGAAGAAAGAAAG--GAAAAAAA UAGGG GAAGUAA	293
CLBrenerNEL	GGAGGUACA AUGCGAGAAGAAGAAAGAAAG--AAAA--AGAAAAAAA GAAA GAAGUAA	289
CLBrener	GGAAAGUACA AUGCGAGAAGAAGAAAGAAAG--AAAGGAAAAAAA UAA GAAGUAA	298
Tula.C12	GGAAAGUACA AUGCGAGAAGAAGAAAGAAAG--AAG--GAAAAAAA UAA GAAGUAA	295
Marinkellei	AGAAAGUACA AUGCGAGAAGAAGAAAGAAAG--AAUA-----	261
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