

**SUPPLEMENTARY MATERIAL No.8**

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

**Suppl. 8.** Multiple alignment of the complete 3' UTR-I sequence from *T. cruzi* isolates listed in Table 1 and those sequences obtained in this study from 058PUJ (GenBank ID: KU973680, KU973681) and D.A. (KU973682) 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 motif of RNA is indicated in bold.

JR_cl._4	AGUCUUUAGCAUUAAGGGUAGACAAUCAUAGUCG-UUUGCAGCUUCGUUAGGUUAGGUUACC	59
Dm28c	AGUCUUUAGCAUUAAGGGUAGACAAUCAUAGUCG-UUUGCAGCUUCGUUAGGUUAGGUUACC	59
Sylvio_X10/1	AGUCUUUAGCAUUAAGGGUAGACAAUCAUAGUCG-UUUGCAGCUUCGUUAGGUUAGGUUACC	59
KU973680.1	AGUCUUUAGCAUUAAGGGUAGACAAUCAUAGUCG-UUUGCAGCUUCGUUAGGUUAGGUUACC	59
KU973681.1	AGUCUUUAGCAUUAAGGGUAGACAAUCAUAGUCG-UUUGCAGCUUCGUUAGGUUAGGUUACC	59
KU973682.1	AGUCUUUAGCAUUAAGGGUAGACAAUCAUAGUCG-UUUGCAGCUUCGUUAGGUUAGGUUACC	59
CLBrenerEL	AAUCCUUAGCAUUAAGGGUAGACAAUCAUAGUCG-UUUGCAGCUUCGUUAGGUUAGGUUACC	59
Esmeraldo	AGUCUUUAGCAUUAAGGGUAGACAAUCAUAGUCG-UUUGCAGCUUCGUUAGGUUAGGUUACC	60
Y	AGUCUUUAGCAUUAAGGGUAGACAAUCAUAGUCG-UUUGCAGCUUCGUUAGGUUAGGUUACC	60
CLBrenerNEL	AAUCCUUAGCAUUAAGGGUAGACAAUCAUAGUCG-UUUGCAGCUUCGUUAGGUUAGGUUACC	59
CLBrener	AGUCUUUAGCAUUAAGGGUAGACAAUCAUAGUCG-UUUGCAGCUUCGUUAGGUUAGGUUACC	60
Tula.C12	AGUCUUUAGCAUUAAGGGUAGACAAUCAUAGUCG-UUUGCAGCUUCGUUAGGUUAGGUUACC	60
Marinkellei	GGUGUUUAGCAUUAAGGGUAGACAAUCAUAGUCG-UUUGCAGCUUCGUUAGGUUAGGUUACC	59
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JR_cl._4	UUACAGGAAUUGUAUCUGCACAGGGUGCAGUGAUACACACGCACA--CACACAUACAA	117
Dm28c	UUACAGGAAUUGUAUCUGCACAGGGUGCAGUGAUACACACGCACA--CACACAUACAA	117
Sylvio_X10/1	UUACAGGAAUUGUAUCUGCACAGGGUGCAGUGAUACACACGCACA--CACACAUACAA	117
KU973680.1	UUACAGGAAUUGUAUCUGCACAGGGUGCAGUGAUACACACGCACA--CACACAUACAA	119
KU973681.1	UUACAGGAAUUGUAUCUGCACAGGGUGCAGUGAUACACACGCACA--CACACAUACAA	119
KU973682.1	UUACAGGAAUUGUAUCUGCACAGGGUGCAGUGAUACACACGCACA--CACACAUACAA	119
CLBrenerEL	UUACAGGAAUUGUAUCUGCACAGGGUGCAGUGAUACACACAC-----ACACAUACAA	111
Esmeraldo	UUACAGGAAUUGUAUCUGCACAGGGUGCAGUGAUACACACAC-----ACACAUACAA	112
Y	UUACAGGAAUUGUAUCUGCACAGGGUGCAGUGAUACACACAC-----ACACAUACAA	114
CLBrenerNEL	UUACAGGAAUUGUAUCUGCACAGGGUGCAGUGAUACACACAC-----ACACAUACAA	111
CLBrener	UUACAGGAAUUGUAUCUGCACAGGGUGCAGUGAUACACACAC-----ACACAUACAA	118
Tula.C12	UUACAGGAAUUGUAUCUGCACAGGGUGCAGUGAUACACACAC-----ACACAUACAA	118
Marinkellei	UUACAGGAAUUGUAUCUGCACAGGGUGCAUUGUA-----CACACAUACAA	105
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JR_cl._4	AUACAUGUACACUUUUGUUUUUUGCCAUCUACCAAGAGGGGCGAGGAGUGAGUGGAAUUG	177
Dm28c	AUACAUGUACACUUUUGUUUUUUGCCAUCUACCAAGAGGGGCGAGGAGUGAGUGGAAUUG	177
Sylvio_X10/1	AUACAUGUACACUUUUGUUUUUUGCCAUCUACCAAGAGGGGCGAGGAGUGAGUGGAAUUG	177
KU973680.1	AUACAUGUACACUUUUGUUUUUUGCCAUCUACCAAGAGGGGCGAGGAGUGAGUGGAAUUG	179
KU973681.1	AUACAUGUACACUUUUGUUUUUUGCCAUCUACCAAGAGGGGCGAGGAGUGAGUGGAAUUG	179
KU973682.1	AUACAUGUACACUUUUGUUUUUUGCCAUCUACCAAGAGGGGCGAGGAGUGAGUGGAAUUG	179
CLBrenerEL	AUACAUGUACACUUUUGUUUUUUGCUAUCUACCAAGAGGGGCGAGGAGUGAGUGGAAUUG	171
Esmeraldo	AUACAUGUACACUUUUGUUUUUUGCUAUCUACCAAGAGGGGCGAGGAGUGAGUGGAAUUG	172
Y	AUACAUGUACACUUUUGUUUUUUGCUAUCUACCAAGAGGGGCGAGGAGUGAGUGGAAUUG	174
CLBrenerNEL	AUACAUGUACACUUUUGUUUUUUGCUAUCUACCAAGAGGGGCGAGGAGUGAGUGGAAUUG	171
CLBrener	AUACAUGUACACUUUUGUUUUUUGCUAUCUACCAAGAGGGGCGAGGAGUGAGUGGAAUUG	178
Tula.C12	AUACAUGUACACUUUUGUUUUUUGCUAUCUACCAAGAGGGGCGAGGAGUGAGUGGAAUUG	178
Marinkellei	AUACAUGUACACUUUUGUUUUUUGCUAUCUACCAAGAGGGGCGAGGAGUGAGUGGAAUUG	165
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JR_cl._4	AGCAAGCGGGUGAAAAGUUUUUUCUCCUCACAGUCUCCCGGCGAGCGAAGAGCUGGAGAAG	237
Dm28c	AGCAAGCGGGUGAAAAGUUUUUUCUCCUCACAGUCUCCCGGCGAGCGAAGAGCUGGAGAAG	237
Sylvio_X10/1	AGCAAGCGGGUGAAAAGUUUUUUCUCCUCACAGUCUCCCGGCGAGCGAAGAGCUGGAGAAG	237
KU973680.1	AGCAAGCGGGUGAAAAGUUUUUUCUCCUCACAGUCUCCCGGCGAGCGAAGAGCUGGAGAAG	239
KU973681.1	AGCAAGCGGGUGAAAAGUUUUUUCUCCUCACAGUCUCCCGGCGAGCGAAGAGCUGGAGAAG	239
KU973682.1	AGCAAGCGGGUGAAAAGUUUUUUCUCCUCACAGUCUCCCGGCGAGCGAAGAGCUGGAGAAG	239
CLBrenerEL	AGCAAGCGGGUGAAAAGUUUUUUCUCCUCACAAUCUCCCGGCGAGCGAAGAGCAGGAGGAG	231
Esmeraldo	AGCAAGCGGGUGAAAAGUUUUUUCUCCUCACAGUCUCCCGGCGAGCGAAGAGCAGGAGGAAU	232
Y	AGCAAGCGGGUGAAAAGUUUUUUCUCCUCACAGUCUCCCGGCGAGCGAAGAGCAGGAGGAAU	234
CLBrenerNEL	AGCAAGCGGGUGAAAAGUUUUUUCUCCUCACAAUCUCCCGGCGAGCGAAGAGCAGGAGGAG	231
CLBrener	AGCAAGCGGGUGAAAAGUUUUUUCUCCUCACAGUCUCCCGGCGAGCGAAGAGCAGGAGGAAU	238
Tula.C12	AGCAAGCGGGUGAAAAGUUUUUUCUCCUCACAGUCUCCCGGCGAGCGAAGAGCAGGAGGAAU	238
Marinkellei	AACAGGCGGUGAAAAGUUUUUUCUCCUCACAGUCUCCCGGCGAGCGAAGAGCAGGAGGAAA	225
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JR_cl._4	GGAGGUACGAUGC-GAGAAGAAGAAG-----	262
Dm28c	GGAGGUACGAUGC-GAGAAGAAGAAG-----	262
Sylvio_X10/1	GGAGGUACGAUGC-GAGAAGAAGAAG-----	262
KU973680.1	GGAGGUACGAUGC-GAGAAGAAGAAG-----	264
KU973681.1	GGAGGUACGAUGC-GAGAAGAAG-----	261
KU973682.1	GGAGGUACGAUGC-GAGAAGA-----	259
CLBrenerEL	GGAGGUACAAUGC-GAGAAGAAGAAG-----	256
Esmeraldo	GGAGGUACAAUGC-GAGAAGAAGAAG-----	257
Y	GGAGGUACAAUGC-GAGAAGAAGAAG-----	259
CLBrenerNEL	GGAGGUACAAUGC-GAGAAGAAGAAG-----	256
CLBrener	GGAGGUACAAUGC-GAGAAGAAGAAG-----	264
Tula.C12	GGAGGUACAAUGC-GAGAAGAAGAAGAAGAAG-----	272
Marinkellei	AGAAGUACAAUGC-GAUAAGAAAA-----	249
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