Table S2. Related to Figure 2 and 3: complete sequence of regulatory region between the start codon of the toxin and the start codon of the antitoxin for all essentializer candidates analyzed. NL = non-lethal, TM = toxin mutant, EE01-EE11 = lethal candidates. EE12-EE40 = non-lethal candidates.

NL	agctgTTCctcattattccacacaTCatacgagccggaagcataaagtgtaaagcatctaaccaccgtgcgtg
тм	agctgTTTcctcattattccacacaTCatacgagccggaagcataaagtgtaaagcatctaacaccgtgcgtg
EE31	agctgGGTccCcattattccacacaTCatacgagccggaagcataaagtgtaaagcatctaacaccgtgcgtg
EE30	$agctg\lambda L ctattattccacacaTTatacgagccggaagcataaagtgtaaagcatctaacaccgtgcgtg$
EE29	$agctg \lambda GT cctcattattccacacaTT at acgag ccgg as gcat as a gctg ta a agct ct a a caccgt gcg tg tt g a c \lambda a tt tt a ccaccg tg cg g tg at a at gg tt g t a tc a ccg c \lambda g g Gg at a gt g t g t a t a c a c g c \lambda g g Gg at a gt g t g t a c a c a c a c a c a c a c a c a c a$
EE28	agctgTTTcctcattattccacacaTCatacgagccggaagcataaagtgtaaagcatctaacaccgtgcgtg
EE27	agctgGTGcctcattattccacacaCCatacgagccggaagcataaagtgtaaagcatctaaccaccgtgcgtg
EE26	$agctgGCCcctcattattccacacaTTatacgagccggaagcataaagtgtaaagcatctaacacc \ tgcgtgttgachattttaccactggcggtgataatggttgttatcaccgcGggfgatagtgtataccaccgcGggfgatagtgtgataatggttgtatcaccgcGggfgatagtgtgatagtgtgtgatagtgtgtgtgatgatgatg$
EE25	agctgClCcctca tattccacacaTCatacgagccggaagcataaagtgtaaagcatctaacaccgtgcgtg
EE24	agctgGCTcctcattattccacacaCTatacgagccggaagcataaagtgtaaagcatctaaccaccgtgcgtg
EE23	no Sea
EE22	$agctg \lambda GTcctcattattccacacaCCatacgagccggaagcataaagtg taaagcatctaaccaccgtg cgtg $
EE21	aget IIIceteattatteceacae. TTatacgagecggaageataaagtgtaaageatetaacaeegtgegtgttgaeTatttaeeaeetggeggtgataatggttgtateaeegeAggAgatagt
EE20	$aggtgålåcstcattattccacacaffatasgagggggataaagggtgataaagggt_aaagggt_aasgggtgstgachattttaccactgggggggataatggttgtatcaccgcfggfgatagt$
EE19	$aggtgT\lambda Contrast tatter a cardinate aggergg a agger a set of the constraint of the$
EE18	agctgGCGcctcattattccacacaTCatacgagccggaagcataaagtgtaaagcatctaaccaccgtgcgtg
EE17	no Seg
EE16	agctgCGTcctcattattccacacaTCatacgagccggaagcataaagtgtaaagcatctaacaccgtgcgtg
EE15	$aggtg {\tt ClicctcattattccacacaI} at acgag ccgg as g cata a aggt g ta a ag ctg {\tt Clicctcattattccaccdg cgg tg at a at g g t t g t a caccg c h g g h g a t g t g t g t a caccg c h g g h g a t g t g t g t g t g t g t g t g t g$
EE14	$agctgCTTcctcattattccacacaCCatacgagccggaagcataaagtgtaaagcatctaaccaccgtgc \ tgttgacTattttaccactggcggtgataatggttgttatcaccgcQggaggataatggtgatagt$
EE13	agetgIC ceteattattecacacaCataegageggaageataaagtgtaaage tetaaeacegtgegtgttgaeAattttaceacetggeggtgataatggttgtateaeegeCggAgatagt
EE12	agetgGGCccteatt ttccacacaTCatacgagccggaagcataaagt taaagcatctaacaccgtgrgt ttgacTattttaccactggrggtgataatggttgttatcaccgcCggGgatagt
EE11	$agctgl{Glcctcattattccacacaflatacgagccggaagc} \\ taaagtgtaaagcatctaaccaccgtgcgtgttgacTattttaccacctggcggtgataatggttgtatcaccgcCggdgatagt \\ \label{eq:glcctcattattccaccacaflatacgagccggaagc} \\ taaagtgttaacaccgtgcgtgttgacTattttaccacctggcggtgataatggttgtatcaccgcCggdgatagt \\ \label{eq:glcctcattattccaccacaflatacgagccggaagc} \\ taaagtgttaagtaatgttgttaccaccgtgcgtgttgacTattttaccacctggcggtgataatggttgttgtaccaccgcCggdgatagt \\ \label{eq:glcctcattattccaccacaflatacgagccggaagc} \\ taaagtgttaagtaatgttgttgttgtaccaccgtgcgtg$
EE10	$agctg \lambda BcctcattattccacacaTlatacgagccggaagc \\ taaagtg taaagcatctaaccaccgtg cgtg ttg ach at tttaccacctg gcg gtg at a at ggt tg ta caccgc Cgg \lambda gat a gt a caccg c b a caccg c$
EE09	agctgGTGcctcattattccacacaTCatacgagccggaagcataaagtgtaaagcatctaaccaccgtgcgtg
EE08	agctgGGAcctcattattccacacaCTatacgagccggaagcataaagtgtaaagcatctaacaccgtgcgtg
EE07	agtg GCGcctcattattccacacaCCatacgagccggaagcataaagtgtaaagcatctaacac TgtgttgacAattttaccactggcggtgataatggttgtatcaccgcCggAgatagt
EE06	agctgGAAcctcattattccacacaCTatacgagccggaagcataaagtgtaaagc tctaacaccgtgcgtgttgacTattttaccactggcggtgataatggttgtatcaccgcCggAgatagt
EE05	agctgTCGcctcattattccaca TTatacgagccggaagcataaagtgtaaagcatctaacaccgtgcgtg
EE04	agctgC6CcctcattattccacacaCTatacgagccggaagcataaagtgtaaagcatctaacaccgtgcgtg
EE03	$agctg\lambda GGcctcattattccacacaCTatacgagccggaagcataaagtgtaaagcatctaacaccgtgcgtg$
EE02	agctgGAAcctcattattccacacaI tacgagccggaagcataaagt taaagcatctaacaccgtgcgtgttgacTattttaccactggcggtgataatggttgtatcaccgcAggGgatagt
EE01	agetgTGAceteattatteeacacaTTatacgageeggaageataaagtgtaaageatetaacace <u>tgegtgttgacTatttaccactggeggtgataatggttgttatcaccgeAggAgatagt</u>