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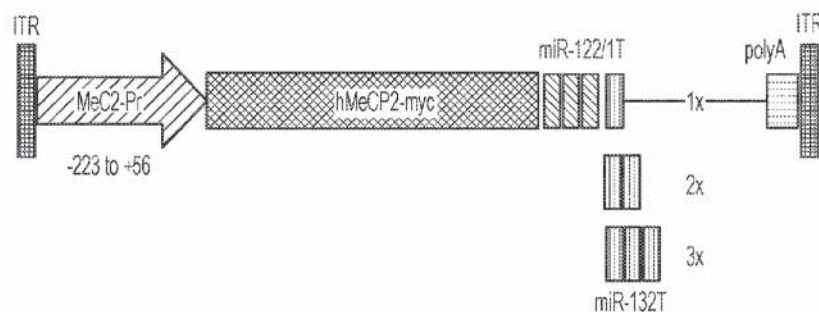


FIG. 1B

(57) Abstract: In some aspects, the disclosure relates to compositions and methods of engineering a transgene. In some embodiments, the disclosure provides self-regulating recombinant nucleic acids, viral vectors and pharmaceutical compositions comprising a MeCP2 transgene. In some embodiments, compositions and methods described by the disclosure are useful for treating diseases and disorders associated with a loss of function mutation, for example Rett syndrome.

