

Abbreviations
$\sim M_7 = MP_ID$
$\sim M_8 = h(\text{con}(MP_PW, MP_N_1))$
$\sim M_9 = MP_C1$
$\sim M_10 = MP_C2$
$\sim M_11 = MP_C3$
$\sim M_12 = MP_R1$
$\sim M_13 = MP_R2$
$\sim M_14 = MP_R3$
$\sim M_15 = MP_R3$
$\sim M_15 = MP_BIO$
$\sim M_26 = \text{dcon2}(\text{fuzzy_extract}(a_16))$
$\sim M_27 = \text{dcon1}(\text{fuzzy_extract}(a_16))$
$\sim M_28 = a_8$
$\sim M_29 = a_9$
$\sim M_30 = MP_RSK_2$
$\sim M_31 = a_10$
$\sim M_32 = a_11$
$\sim M_33 = a_12$
$\sim M_34 = a_13$
$\sim M_35 = a_14$
$\sim M_36 = a_15$
$\sim M_37 = h(\text{con}(\text{dcon1}(\text{fuzzy_extract}(a_16)), a_8))$
$\sim M_38 = \text{xor}(h(\text{con}(\text{con}(MP_RSK_2, \text{dcon2}(\text{fuzzy_extract}(a_16))), h(\text{con}(\text{dcon1}(\text{fuzzy_extract}(a_16)), a_8)))), a_9)$
$\sim M_39 = \text{xor}(h(\text{con}(MP_RSK_2, a_8)), a_9)$
$\sim M_40 = \text{dcon2}(\text{fuzzy_extract}(a_16))$
$\sim X_1 = (a_17, \sim M_12, h(\text{con}(\text{xor}(h(\text{con}(\text{con}(\sim M_30, \text{dcon2}(\text{fuzzy_extract}(a_16))), h(\text{con}(\text{dcon1}(\text{fuzzy_extract}(a_16)), a_8)))), a_9, a_9)), a_18)$ $= (a_17, MP_R1, h(\text{con}(\text{xor}(h(\text{con}(\text{con}(MP_RSK_2, \text{dcon2}(\text{fuzzy_extract}(a_16))), h(\text{con}(\text{dcon1}(\text{fuzzy_extract}(a_16)), a_8)))), a_9, a_9)), a_18)$

