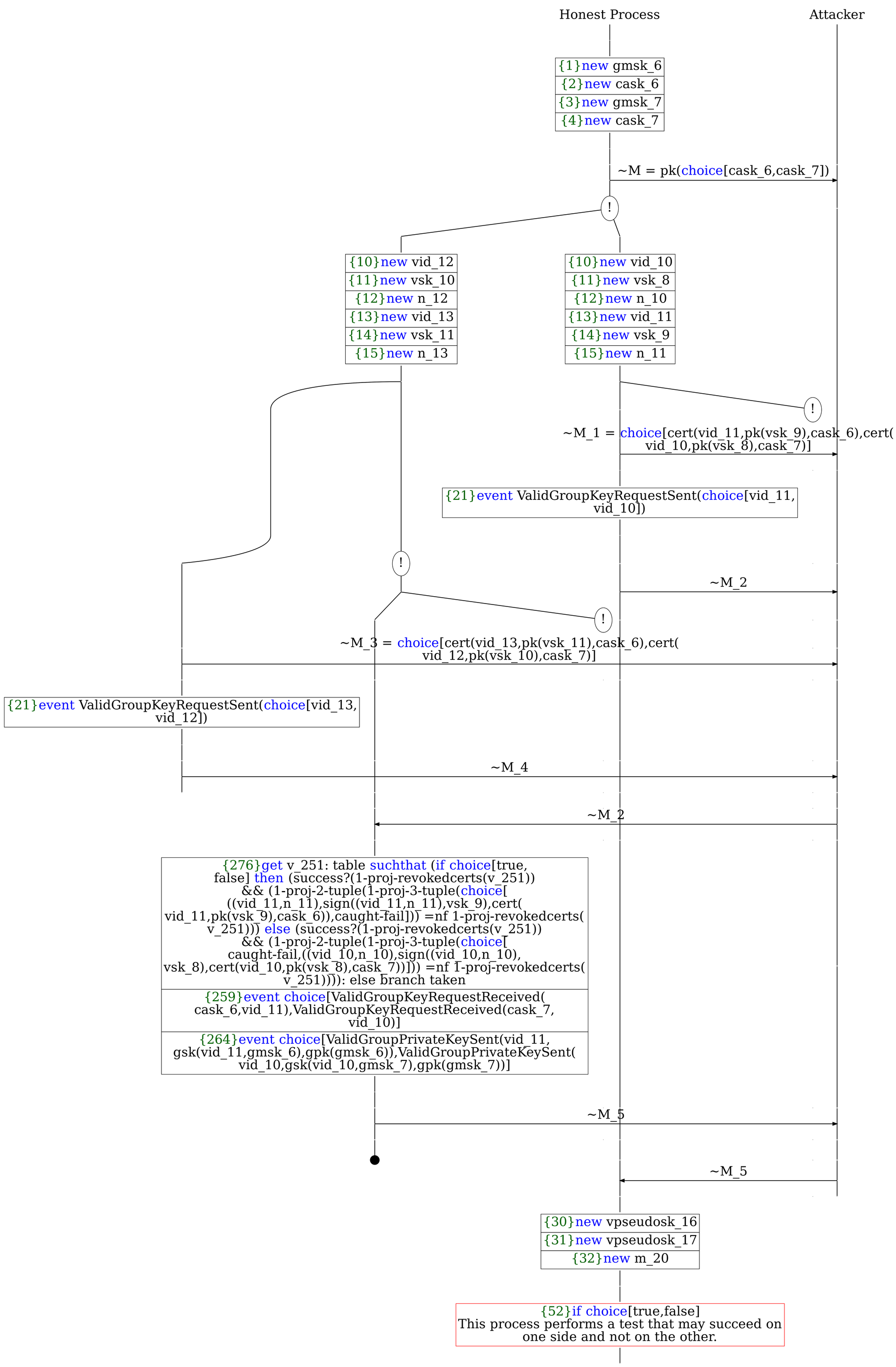
Abbreviations
~M_2 = choice[aenc(((vid_11,n_11),sign((vid_11, n_11),vsk_9),cert(vid_11,pk(vsk_9),cask_6)),pk(cask_6)),aenc(((vid_10,n_10),sign((vid_10,n_10), vsk_8),cert(vid_10,pk(vsk_8),cask_7)),pk(cask_7))]
~M_4 = choice[aenc(((vid_13,n_13),sign((vid_13, n_13),vsk_11),cert(vid_13,pk(vsk_11),cask_6)), pk(cask_6)),aenc(((vid_12,n_12),sign((vid_12,n_12), vsk_10),cert(vid_12,pk(vsk_10),cask_7)),pk(cask_7))]
~M_5 = choice[aenc(((groupkey_response,vid_11, n_11,gsk(vid_11,gmsk_6),gpk(gmsk_6)),sign((groupkey_response, vid_11,n_11,gsk(vid_11,gmsk_6),gpk(gmsk_6)),cask_6)), pk(vsk_9)),aenc(((groupkey_response,vid_10,n_10, gsk(vid_10,gmsk_7),gpk(gmsk_7)),sign((groupkey_response, vid_10,n_10,gsk(vid_10,gmsk_7),gpk(gmsk_7)),cask_7)), pk(vsk_8))]

A trace has been found.