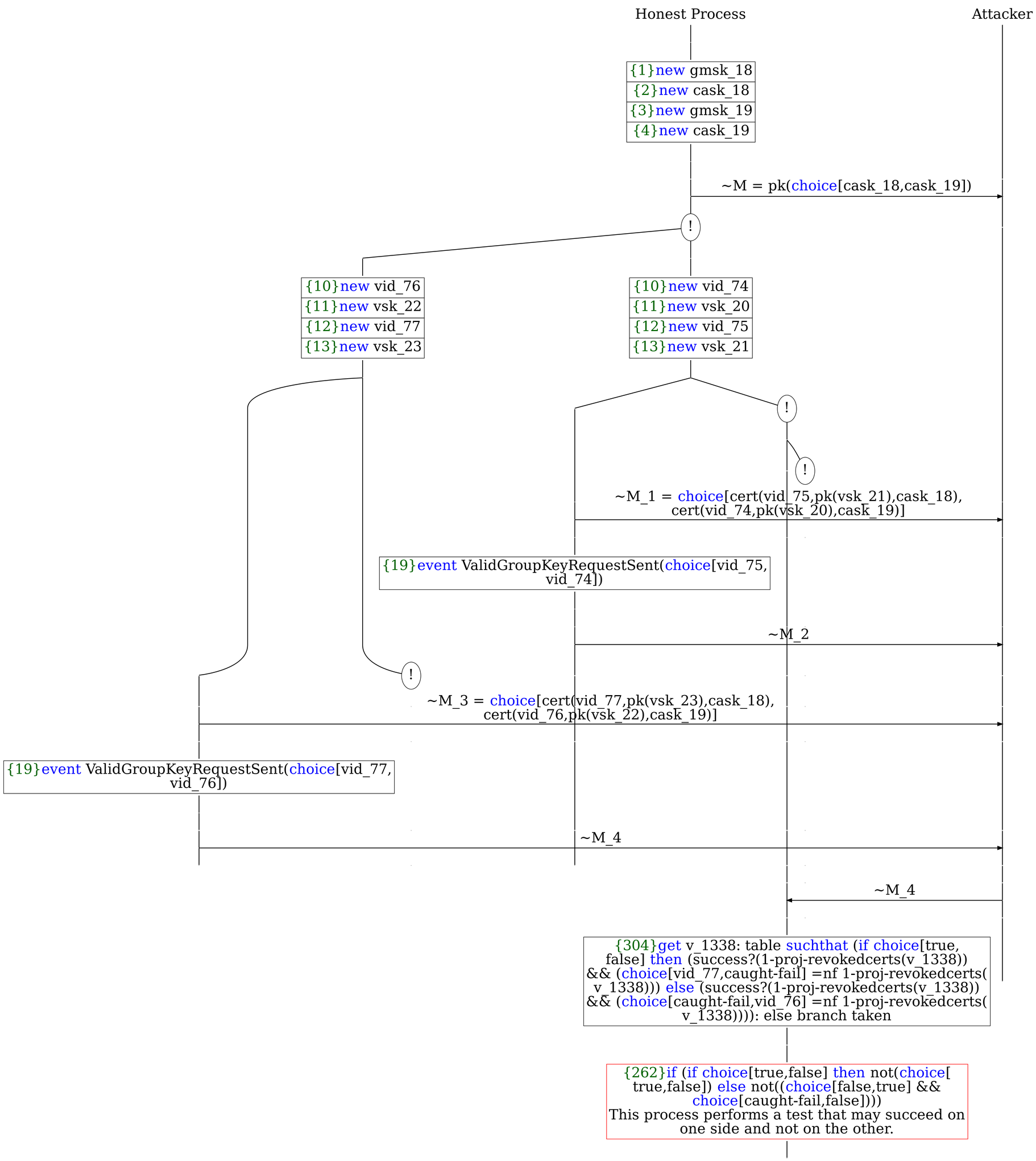
Abbreviations
~M_2 = choice[aenc((groupkey_request,sign(groupkey_request, vsk_21),cert(vid_75,pk(vsk_21),cask_18)),pk(cask_18)), aenc((groupkey_request,sign(groupkey_request,vsk_20), cert(vid_74,pk(vsk_20),cask_19)),pk(cask_19))]
~M_4 = choice[aenc((groupkey_request,sign(groupkey_request, vsk_23),cert(vid_77,pk(vsk_23),cask_18)),pk(cask_18)), aenc((groupkey_request,sign(groupkey_request,vsk_22), cert(vid_76,pk(vsk_22),cask_19)),pk(cask_19))]

A trace has been found.