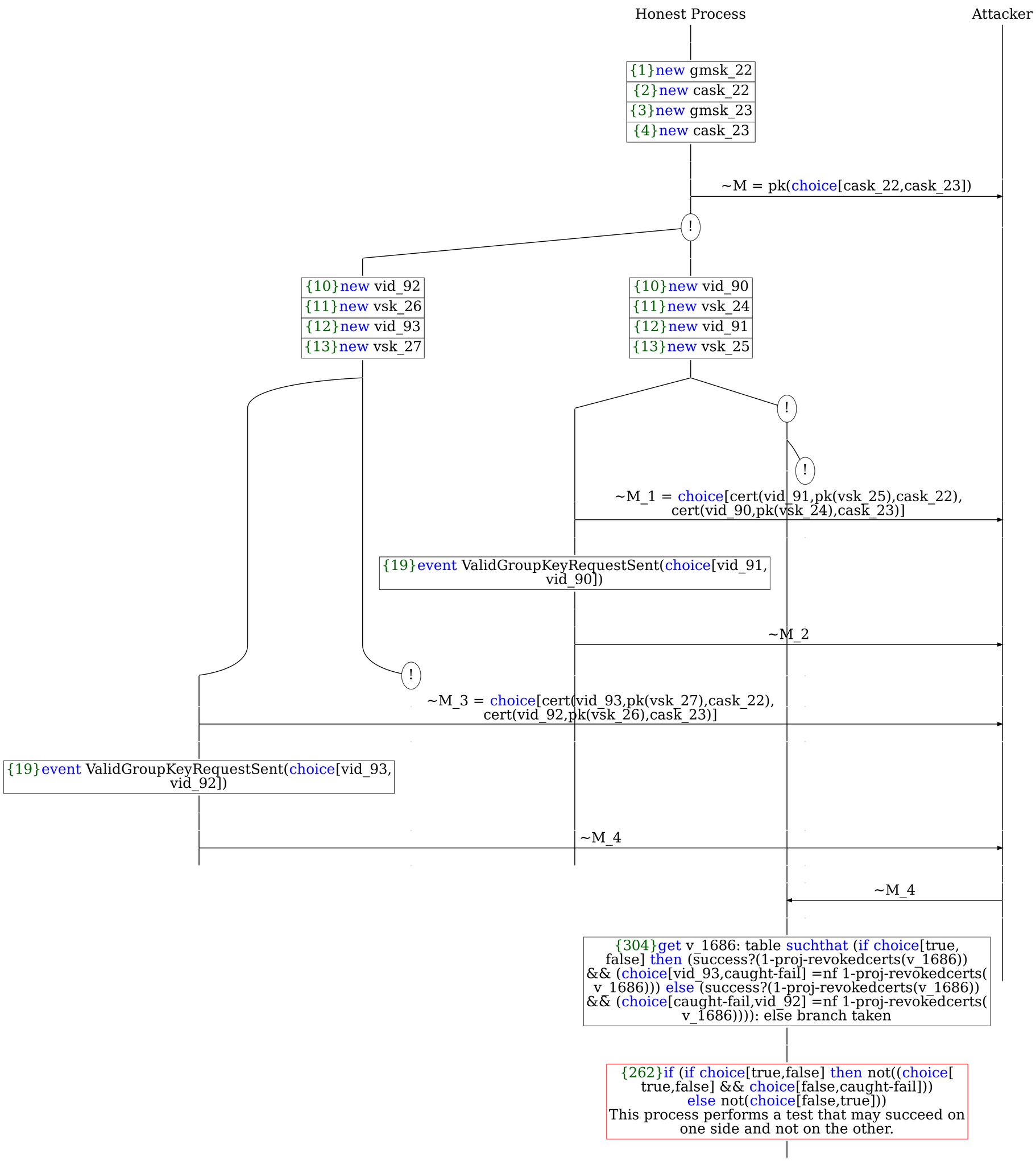
Abbreviations
~M_2 = choice[aenc((groupkey_request,sign(groupkey_request, vsk_25),cert(vid_91,pk(vsk_25),cask_22)),pk(cask_22)), aenc((groupkey_request,sign(groupkey_request,vsk_24), cert(vid_90,pk(vsk_24),cask_23)),pk(cask_23))]
~M_4 = choice[aenc((groupkey_request,sign(groupkey_request, vsk_27),cert(vid_93,pk(vsk_27),cask_22)),pk(cask_22)), aenc((groupkey_request,sign(groupkey_request,vsk_26), cert(vid_92,pk(vsk_26),cask_23)),pk(cask_23))]

A trace has been found.