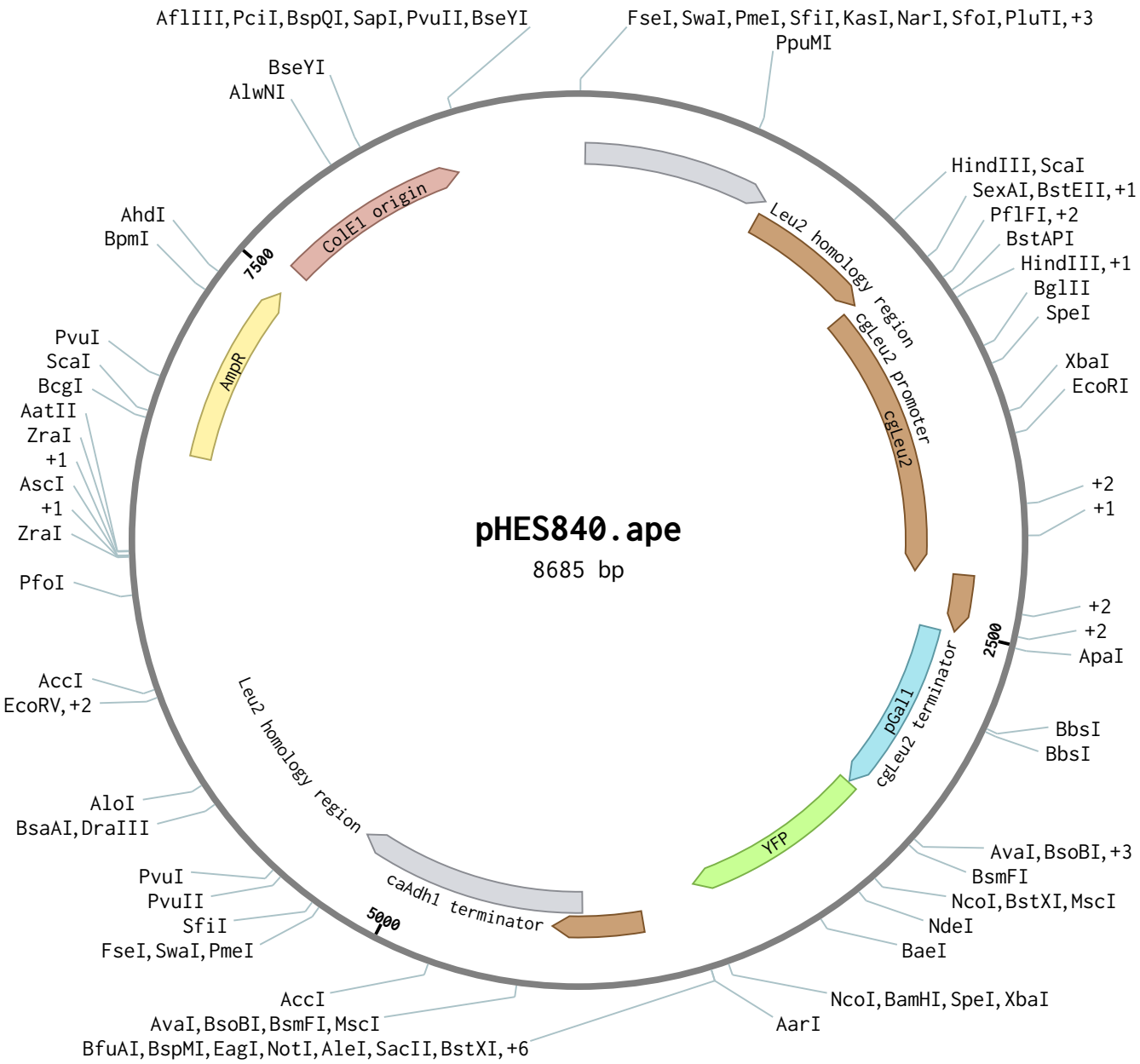pHES840.ape (8685 bp)