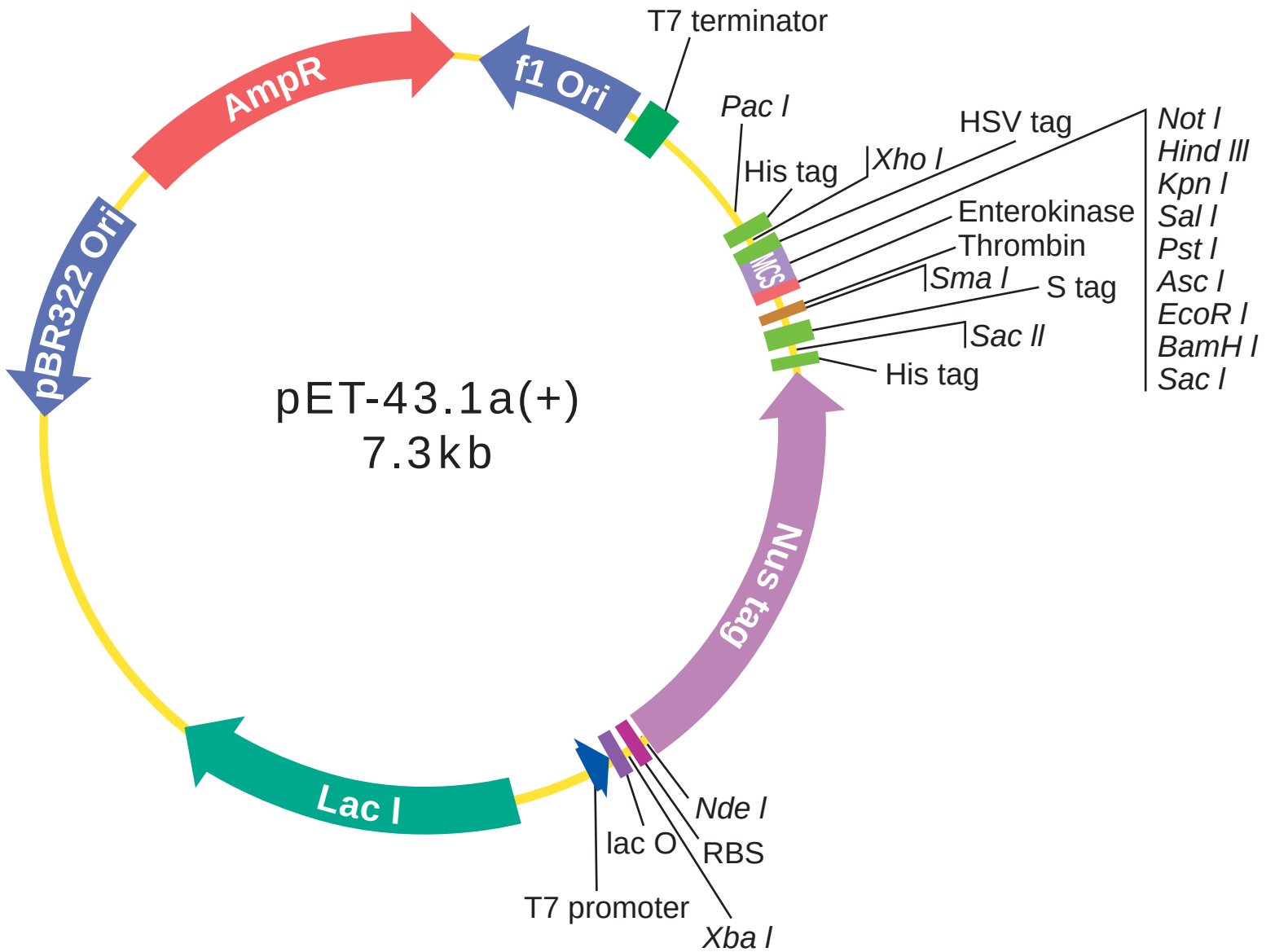

T7 promoter — lac operator — *Xba* I — rbs — *Nde* I — Nus tag

--- T AAT ACG ACT CAC TAT AGG GGA ATT GTG AGC GGA TAA CAA TTC CCC TCT AGA AAT AAT TTT GTT TAA CTT TAA GAA GGA GAT ATA CAT ATG AAC AAA GAA ATT TTG

M N K E I L

Nus tag — His tag — *Sac* II — S tag

GCT ... 1443bp ... TGC TGG TTC GGT GAC GAA GCG ACT AGT GGT TCT GGT CAT CAC CAT CAC CAT CAC TCC GCG GGT AAA GAA ACC GCT GCT GCG AAA TTT GAA CGC CAG CAC

A ... 481aa ... C W F G D E A T S G S G H H H H H H S A G K E T A A A K F E R Q H

S tag — *Sma* I — *Sac* I — *Bam*H I — *Eco*R I

ATG GAC TCG CCA CCG CCA ACT GGT CTG GTC CCC CGG GGC AGC GCG GGT TCT GGT ACG ATT GAT GAC GAC GAC AAG AGT CCG GGA GCT CGT GGA TCC GAA TTC TGT ACA

M D S P P P T G L V P R G S A G S G T I D D D D K S P G A R G S E F C T

thrombin site — enterokinase site

Asc I — *Pst* I — *Sal* I — *Kpn* I — *Hind* III — *Not* I — HSV tag

GGC GCG CCT GCA GGA CGT CGA CGG TAC CAT CGA TAC GCG TTC GAA GCT TGC GGC CGC ACA GCT GTA TAC ACG TGC AAG CCA GCC AGA ACT CGC TCC TGA AGA CCC AGA

G A P A G R R R Y H R Y A F E A C G R T A V Y T C K D A A T R S Stop

Xho I — His tag — *Pac* I

GGA TCT CGA GCA CCA CCA CCA CCA CCA CTA ATG TTA ATT AAG TTG GGC GTT CCT AGG CTG ATA AAA CAG AAT TTG CCT GGC GGC AGT AGC GCG GTG GTC CCA CCT ---