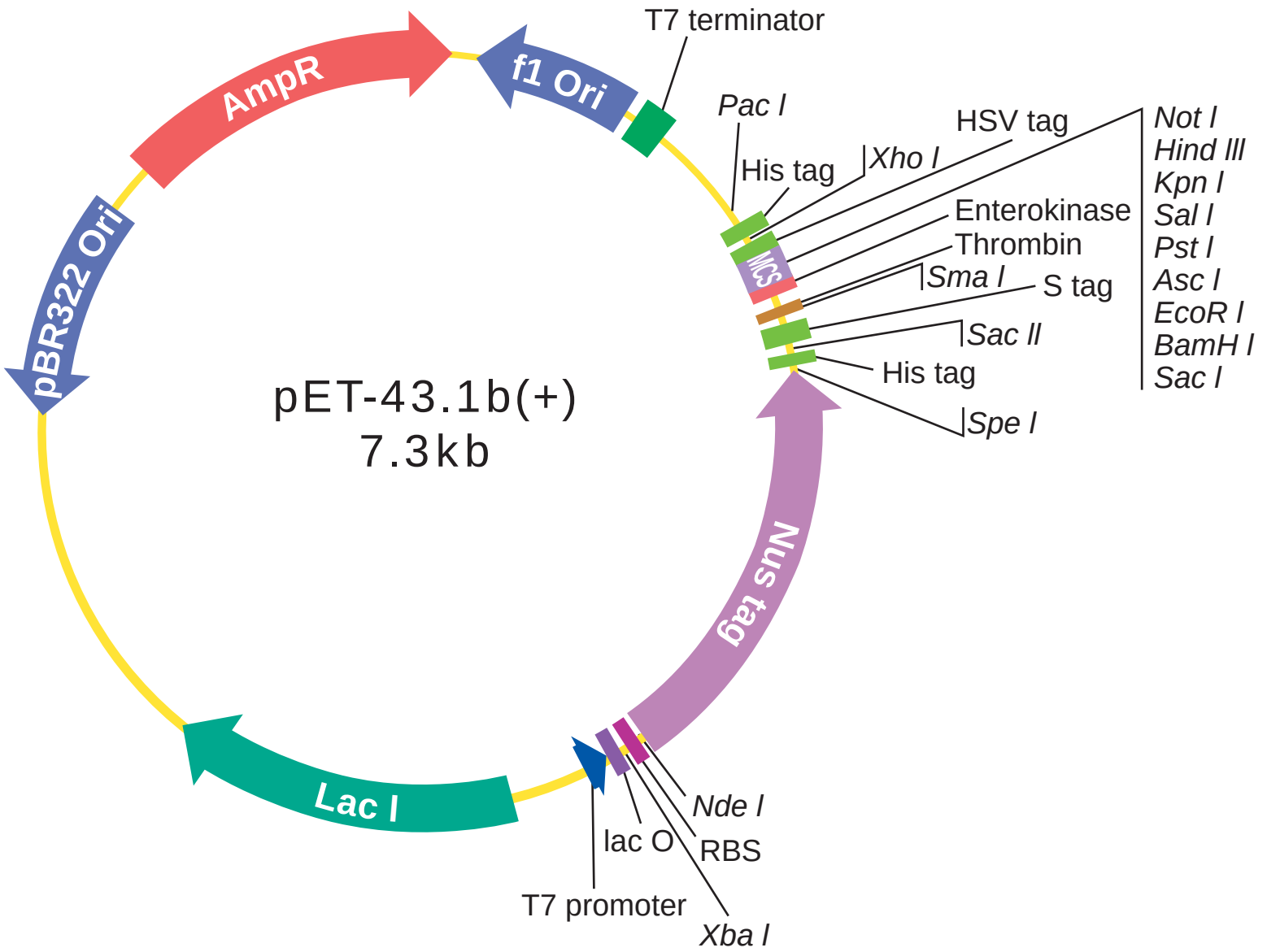

T7 promoter → | lac operator | *Xba* I | rbs | *Nde* I | Nus tag

--- 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 | *Spe* I | 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 GAG CTC GTG GAT CCG AAT TCT GTA CAG
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 E L V D P N S V Q
thrombin site | enterokinase site

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

GCG CGC CTG CAG GAC GTC GAC GGT ACC ATC GAT ACG CGT TCG AAG CTT GCG GCC GCA CAG CTG TAT ACA CGT GCA AGC CAG CCA GAA CTC GCT CCT GAA GAC CCA GAG
A R L Q D V D G T I D T R S K L A A A Q L Y T R A S Q P E I A P E D P E

Xho I | His tag | *Pac* I

GAT CTC GAG CAC CAC CAC CAC CAC CAC TAA TGT TAA TTA AGT TGG GCG TTC CTA GGC TGA TAA AAC AGA ATT TGC CTG GCG GCA GTA GCG CGG TGG TCC CAC CT ---
D L E H H H H H H Stop