

pThioHis B Multiple Cloning Site

HP-Thioredoxin translational start site
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 3469 AT **ATG** TCT GAT AAA ATT ATT **CAT** CTG ACT GAT GAT TCT TTT GAT ACT
 Met Ser Asp Lys Ile Ile **His** Leu Thr Asp Asp Ser Phe Asp Thr

HP-Thioredoxin open reading frame (ORF)

3516 GAT GTA CTT AAG GCA GAT GGT GCA ATC CTG GTT GAT TTC TGG GCA **CAC**
 Asp Val Leu Lys Ala Asp Gly Ala Ile Leu Val Asp Phe Trp Ala **His**

Rsr II
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3564 TGG TGC GGT CCG TGC AAA ATG ATC GCT CCG ATT CTG GAT GAA ATC GCT
 Trp Cys Gly Pro Cys Lys Met Ile Ala Pro Ile Leu Asp Glu Ile Ala

3612 GAC GAA TAT CAG GGC AAA CTG ACC GTT GCA AAA CTG AAC ATC GAT **CAC**
 Asp Glu Tyr Gln Gly Lys Leu Thr Val Ala Lys Leu Asn Ile Asp **His**

3660 AAC CCG GGC ACT GCG CCG AAA TAT GGC ATC CGT GGT ATC CCG ACT CTG
 Asn Pro Gly Thr Ala Pro Lys Tyr Gly Ile Arg Gly Ile Pro Thr Leu

3708 CTG CTG TTC AAA AAC GGT GAA GTG GCG GCA ACC AAA GTG GGT GCA CTG
 Leu Leu Phe Lys Asn Gly Glu Val Ala Ala Thr Lys Val Gly Ala Leu

Trx forward sequencing priming site
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3756 TCT AAA GGT CAG TTG AAA GAG TTC CTC GAC GCT AAC CTG GCC GGC TCT
 Ser Lys Gly Gln Leu Lys Glu Phe Leu Asp Ala Asn Leu Ala Gly Ser

Enterokinase recognition sequence
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3804 GGA TCC GGT GAT GAC GAT GAC AAG GTA CCC ATG GGA GCT CGA GAT CTT
 Gly Ser Gly Asp Asp Asp Asp Lys Val Pro Met Gly Ala Arg Asp Leu

▲ Enterokinase cleavage site

*Eco*R I *Sac* II *Not* I *Stu* I *Xba* I *Sal* I *Pst* I
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3852 CGA ATT CCG CGG CCG CAG GCC TCT AGA GTC GAC CTG CAG TAA TCGTA
 Arg Ile Pro Arg Pro Gln Ala Ser Arg Val Asp Leu Gln ***

aspA transcriptional terminator
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3899 CAGGGTAGTA CAAATAAAAA AGGCACGTCA GATGACGTGC CTTTTTCTT GTGAGCAGTA

Trx reverse sequencing priming site
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3959 AGCTTGGCAC TGGCCGTCGT TTTACAACGT CGTGACTGGG