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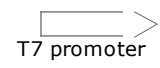
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4650

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4725

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4800

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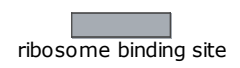
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4950

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5025

1 Met Asn Lys Glu Ile 5 Leu Ala Val Val 10 Glu Ala Val Ser Asn 15 Glu Lys Ala Leu Pro 20 Arg Glu Lys
NusA

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5100

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NusA

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5175

50 Gln Ile Asp Arg Lys Ser Gly 55 Asp Phe Asp Thr Phe 60 Arg Arg Trp Leu Val 65 Val Asp Glu Val Thr 70 Gln Pro Thr
NusA

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5250

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NusA

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5325

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NusA

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5400

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5475

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5550

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NusA

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5625

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NusA

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5700

225 Ile Lys Ala Ala Ala Arg Asp 230 Pro Gly Ser Arg Ala 235 Lys Ile Ala Val Lys 240 Thr Asn Asp Lys Arg 245 Ile Asp Pro
NusA

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5775

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5850

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5925

Val Asp Glu Asp Lys His Thr Met Asp Ile Ala Val Glu Ala Gly Asn Leu Ala Gln Ala Ile Gly Arg Asn Gly
NusA

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6000

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NusA

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6075

His Gln Ala Glu Ala His Ala Ala Ile Asp Thr Phe Thr Lys Tyr Leu Asp Ile Asp Glu Asp Phe Ala Thr Val
NusA

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6150

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NusA

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6225

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NusA

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6300

Glu Ser Leu Gly Asp Asn Lys Pro Ala Asp Asp Leu Leu Asn Leu Glu Gly Val Asp Arg Asp Leu Ala Phe Lys
NusA

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6375

Leu Ala Ala Arg Gly Val Cys Thr Leu Glu Asp Leu Ala Glu Gln Gly Ile Asp Asp Leu Ala Asp Ile Glu Gly
NusA

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6450

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NusA

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6525

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6xHis S-Tag

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6600

Asp Ser Pro Pro Pro Thr Gly Leu Val Pro Arg Gly Ser Ala Gly Ser Gly Thr Ile Asp Asp Asp Asp Lys Ser
S-Tag thrombin site enterokinase site

SacI BamHI EcoRI AscI PstI SalI KpnI HindIII

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GCCCTCGAGCACCTAGGCTTAAGACATGTCCGCGCGGACGTCTCTGCAGCTGCCATGGTAGCTATGCGCAAGCTTC

6675

Pro Gly Ala Arg Gly Ser Glu Phe Cys Thr Gly Ala Pro Ala Gly Arg Arg Tyr His Arg Tyr Ala Phe Glu
(in frame with enterokinase site)

MCS

NotI

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6750

Gln Pro Glu Leu Ala Pro Glu Asp Pro Glu Asp Leu Glu His
MCS HSV tag 6xHis

Ala Cys Gly Arg Thr Ala Val Tyr Thr Cys Lys Pro Ala Arg Thr Arg Ser
(in frame with enterokinase site)

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6825

His His His His His
6xHis

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6900

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6975

rrnB T1 terminator

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7050

rrnB T1 terminator