

pExp-His-TF-TEV

SpeI  
>=====

ATGAATCACCATCACCATCACCATCACCATTCTGGCACTAGTGGCCAAGTTTCAGTTGAA  
90 100 110 120 130 140  
M N H H H H H H H S G T S G Q V S V E  
ACCACTCAAGGCCTTGGCCGCCGTGTAACGATTACTATCGCTGCTGACAGCATCGAAACC  
150 160 170 180 190 200  
T T Q G L G R R V T I T I A A D S I E T  
GCTGTTAAAAGCGAGCTGGTCAACGTTGCGAAAAAAGTACGTATTGACGGCTTCCGCAAA  
210 220 230 240 250 260  
A V K S E L V N V A K K V R I D G F R K  
GGCAAAGTGCCAATGAATATCGTTGCTCAGCGTTATGGCGCGTCTGTACGCCAGGACGTT  
270 280 290 300 310 320  
G K V P M N I V A Q R Y G A S V R Q D V  
CTGGGTGACCTGATGAGCCGTAACCTTTCATTGACGCCATCATTAAAGAAAAAATCAATCCG  
330 340 350 360 370 380  
L G D L M S R N F I D A I I K E K I N P  
GCTGGCGCACCGACTTATGTTCCGGGCGAATACAAGCTGGGTGAAGACTTCACTTACTCT  
390 400 410 420 430 440  
A G A P T Y V P G E Y K L G E D F T Y S  
GTAGAGTTTGAAGTTTATCCGGAAGTTGAACTGCAGGGTCTGGAAGCGATCGAAGTTGAA  
450 460 470 480 490 500  
V E F E V Y P E V E L Q G L E A I E V E  
AAACCGATCGTTGAAGTGACCGACGCTGACGTTGACGGCATGCTGGATACTCTGCGTAAA  
510 520 530 540 550 560  
K P I V E V T D A D V D G M L D T L R K  
CAGCAGGCGACCTGGAAAGAAAAAGACGGCGCTGTTGAAGCAGAAGACCGCGTAACCATC  
570 580 590 600 610 620  
Q Q A T W K E K D G A V E A E D R V T I

AgeI  
>=====

GACTTCACCGGTTCTGTAGACGGCGAAGAGTTTGAAGGCGGTAAAGCGTCTGATTTTCGTA  
630 640 650 660 670 680  
D F T G S V D G E E F E G G K A S D F V

XmaI  
>=====

CTGGCGATGGGCCAGGGTCTGATGATCCCGGGCTTTGAAGACGGTATCAAAGGCCACAAA  
690 700 710 720 730 740  
L A M G Q G R M I P G F E D G I K G H K  
GCTGGCGAAGAGTTCACCATCGACGTGACCTTCCCAGGAAGAATACCACGCAGAAAACCTG  
750 760 770 780 790 800  
A G E E F T I D V T F P E E Y H A E N L  
AAAGGTAAAGCAGCGAAATTCGCTATCAACCTGAAGAAAGTTGAAGAGCGTGAAGTCCG  
810 820 830 840 850 860  
K G K A A K F A I N L K K V E E R E L P

EcoRI  
>=====

GAAGTACTGCAGAATTCATCAAACGTTTTCCGGCTTGAAGATGGTTCCGTAGAAGGTCTG  
870 880 890 900 910 920  
E L T A E F I K R F G V E D G S V E G L  
CGCGCTGAAGTGCCTAAAACATGGAGCGCGAGCTGAAGAGCGCCATCCGTAACCGCGTT  
930 940 950 960 970 980  
R A E V R K N M E R E L K S A I R N R V  
AAGTCTCAGGCGATCGAAGGTCTGGTAAAAGCTAACGACATCGACGTACCGGCTGCGCTG  
990 1000 1010 1020 1030 1040  
K S Q A I E G L V K A N D I D V P A A L  
ATCGACAGCGAAATCGACGTTCTGCGTCCGAGGCTGCACAGCGTTTTCCGGTGGCAACGAA  
1050 1060 1070 1080 1090 1100  
I D S E I D V L R R Q A A Q R F G G N E

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AAACAAGCTCTGGAAGCTGCCGCGCGAACTGTTTCGAAGAACAGGCTAAACGCCGCGTAGTT
  1110      1120      1130      1140      1150      1160
K  Q  A  L  E  L  P  R  E  L  F  E  E  Q  A  K  R  R  V  V

GTTGGCCTGCTGCTGGGCGAAGTTATCCGCACCAACGAGCTGAAAGCTGACGAAGAGCGC
  1170      1180      1190      1200      1210      1220
V  G  L  L  L  G  E  V  I  R  T  N  E  L  K  A  D  E  E  R

GTGAAAGGCCTGATCGAAGAGATGGCTTCTGCGTACGAAGATCCGAAAGAAGTTATCGAG
  1230      1240      1250      1260      1270      1280
V  K  G  L  I  E  E  M  A  S  A  Y  E  D  P  K  E  V  I  E

TTCTACAGCAAAAACAAAGAAGCTGATGGACAACATGCGCAATGTTGCTCTGGAAGAACAG
  1290      1300      1310      1320      1330      1340
F  Y  S  K  N  K  E  L  M  D  N  M  R  N  V  A  L  E  E  Q

GCTGTTGAAGCTGTACTGGCGAAAGCGAAAGTGACTGAAAAAGAAACCACTTTCAACGAG
  1350      1360      1370      1380      1390      1400
A  V  E  A  V  L  A  K  A  K  V  T  E  K  E  T  T  F  N  E

                NheI                                BsaI
                >===== >.....=====
CTGATGAACCAGCAGGCTAGCGGTACCGAAAACCTGTACTTCCAGTGAGACCTTAATTAA
  1410      1420      1430      1440      1450      1460
L  M  N  Q  Q  A  S  G  T  E  N  L  Y  F  Q  *  -  -  -  *

XhoI                                HindIII
>===== >=====
CTCGAGCGCATGGAGCCACCCGCAGTTCGAAAAATAAGCTTG
  1470      1480      1490      1500
-  -  -  -  -  -  -  -  -  -  -  -  -  -  -

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# Enzymes that cut	Frequency	Isoschizomers
AgeI	1	
BsaI	1	BsaI
EcoRI	1	
HindIII	1	
NheI	1	
SpeI	1	
XhoI	1	
XmaI	1	