

pExp-His-mCherry-TEV

SpeI

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ATGAATCACCATCACCATCACCATCACCATTCTGGCACTAGTGGTGTGAGCAAGGGCGAG
 90 100 110 120 130 140
 M N H H H H H H H S G T S G V S K G E
 GAGGATAACATGGCCATCATCAAGGAGTTCATGCGCTTCAAGGTGCACATGGAGGGCTCC
 150 160 170 180 190 200
 E D N M A I I K E F M R F K V H M E G S
 GTGAACGGCCACGAGTTCGAGATCGAGGGCGAGGGCGAGGGCCGCCCTACGAGGGCACC
 210 220 230 240 250 260
 V N G H E F E I E G E G E G R P Y E G T
 CAGACCGCCAAGCTGAAGGTGACCAAGGGTGGCCCCCTGCCCTTCGCCTGGGACATCCTG
 270 280 290 300 310 320
 Q T A K L K V T K G G P L P F A W D I L
 TCCCCTCAGTTCATGTACGGCTCCAAGGCCTACGTGAAGCACCCCGCGACATCCCCGAC
 330 340 350 360 370 380
 S P Q F M Y G S K A Y V K H P A D I P D
 TACTTGAAGCTGTCCTTCCCCGAGGGCTTCAAGTGGGAGCGCGTGATGAACTTCGAGGAC
 390 400 410 420 430 440
 Y L K L S F P E G F K W E R V M N F E D

PstI

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GGCGGCGTGGTGACCGTGACCCAGGACTCCTCCCTGCAGGACGGCGAGTTCATCTACAAG
 450 460 470 480 490 500
 G G V V T V T Q D S S L Q D G E F I Y K

NcoI

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GTGAAGCTGCGCGGCACCAACTTCCCCTCCGACGGCCCCGTAATGCAGAAGAAGACCATG
 510 520 530 540 550 560
 V K L R G T N F P S D G P V M Q K K T M

NcoI

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GGCTGGGAGGCCTCCTCCGAGCGGATGTACCCCCGAGGACGGCGCCCTGAAGGGCGAGATC
 570 580 590 600 610 620
 G W E A S S E R M Y P E D G A L K G E I
 AAGCAGAGGCTGAAGCTGAAGGACGGCGGCCACTACGACGCTGAGGTCAAGACCACCTAC
 630 640 650 660 670 680
 K Q R L K L K D G G H Y D A E V K T T Y
 AAGCCAAGAAGCCCCTGCAGCTGCCCGGCGCCTACAACGTCAACATCAAGTTGGACATC
 690 700 710 720 730 740
 K A K K P V Q L P G A Y N V N I K L D I
 ACCTCCCACAACGAGGACTACCCATCGTGGAACAGTACGAACGCGCCGAGGGCCGCCAC
 750 760 770 780 790 800
 T S H N E D Y T I V E Q Y E R A E G R H

BsaI

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TCCACCGCGGCATGGACGAGCTGTACAAGTCTGGTACCGAAAACCTGTACTTCCAGTGA
 810 820 830 840 850 860
 S T G G M D E L Y K S G T E N L Y F Q *

BsaI

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XhoI

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HindIII

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GACCTTAATTAACTCGAGCGCATGGAGCCACCCGCGAGTTCGAAAATAAGCTTG
 870 880 890 900 910

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# Enzymes that cut	Frequency	Isoschizomers
BsaI	1	BsaI
HindIII	1	
NcoI	1	
PstI	1	
SpeI	1	

