

Donor Template WT -> SNV

Protospacer Sequence

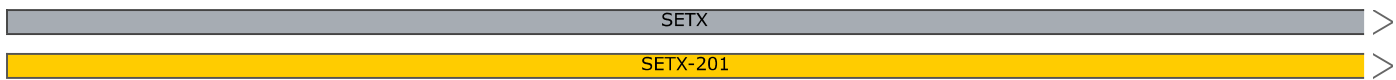
Silent SNV

INK2S00108_SETX_L389S_A07_BB
8589 bp

5'
3'

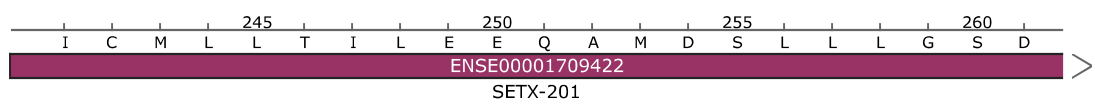
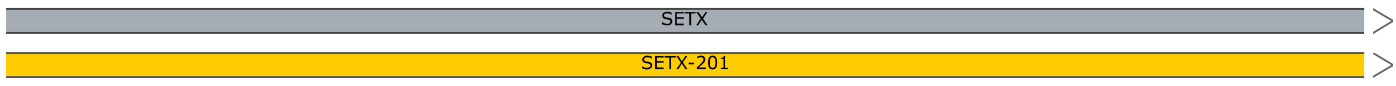
85

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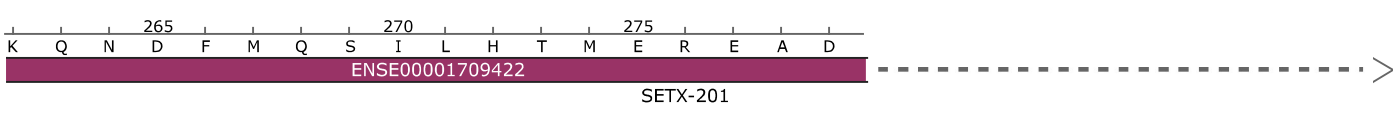
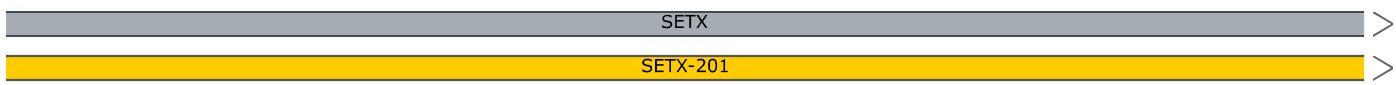
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170



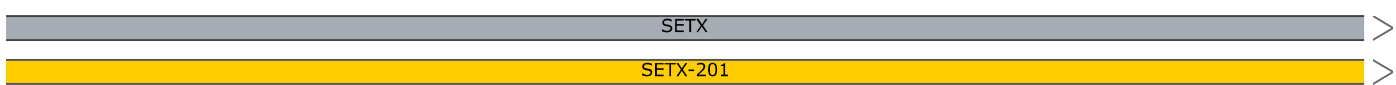
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255



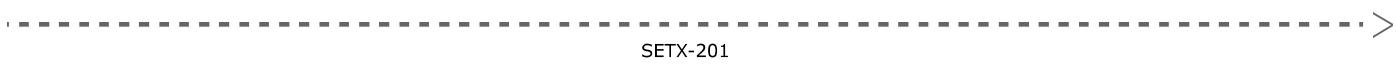
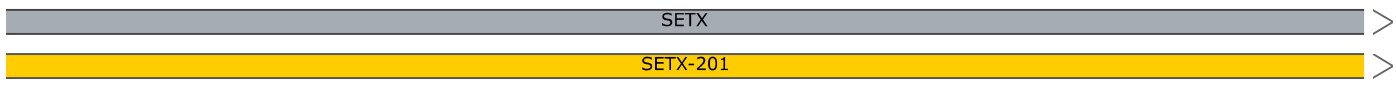
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340



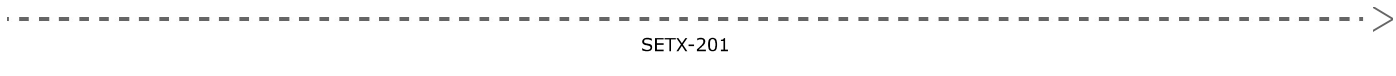
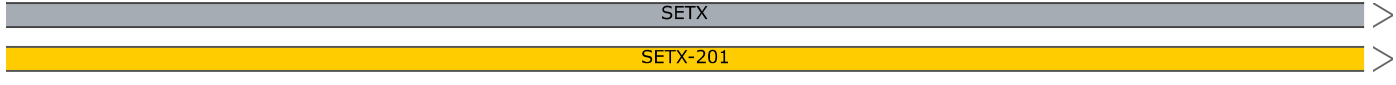
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425



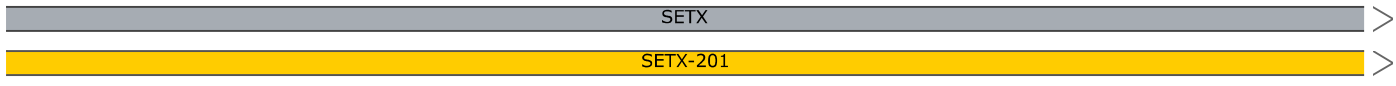
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510



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595



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680

SETX

SETX-201

SETX-201

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765

SETX

SETX-201

SETX-201

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850

SETX

SETX-201

SETX-201

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935

SETX

SETX-201

SETX-201

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1020

SETX

SETX-201

SETX-201

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1105

SETX

SETX-201

SETX-201

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1190

SETX

SETX-201

SETX-201

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2465

SETX

SETX-201

SETX-201

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2550

SETX

SETX-201

SETX-201

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2635

SETX

SETX-201

SETX-201

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2720

SETX

SETX-201

SETX-201

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2805

SETX

SETX-201

SETX-201

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2890

SETX

SETX-201

SETX-201

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2975

SETX

SETX-201

SETX-201

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3060

SETX

SETX-201

SETX-201

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3145

SETX

SETX-201

SETX-201

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3230

SETX

SETX-201

SETX-201

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3315

SETX

SETX-201

SETX-201

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3400

SETX

SETX-201

280 D D S V D 285
ENSE00001692297

SETX-201

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3485

SETX

SETX-201

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ENSE00001692297

SETX-201

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3570

SETX

SETX-201

A F Q T I I N N A S Y N R E I R H I R N S S V R

ENSE00001692297

SETX-201

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3655

SETX

SETX-201

SETX-201

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3740

SETX

SETX-201

SETX-201

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ENSE00001668729

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3825

SETX

SETX-201

SETX-201

Q I V Y N Y N P E K T K K
ENSE00001668729

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3910

SETX

SETX-201

SETX-201

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3995

SETX

SETX-201

SETX-201

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4080

SETX

SETX-201

SETX-201

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4165

SETX

SETX-201

SETX-201

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4250

SETX

SETX-201

SETX-201

PCR Reverse

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4335

SETX

SETX-201

SETX-201

D

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4420

SETX

SETX-201

S G W R T A I C P D Y C P N M Y E E M E T L A S V L Q S

ENSE00001802743

SETX-201

Donor Template WT -> SNV

SNV PAM Protospacer Sequence

Silent SNV

ACGGGTCTAATAACAGGATTGTACATACTTCTTTACCTTTGTAATCGGGTCCATGAAGTCAGTC

Donor Template WT -> SNV

gRNA Protospacer

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TATAACCAGTTCTGTACGCACAAGTATTGTCGTGTAAGATACCAAGTAGGGAAAAACAGGTCAGGGAGTACCTAGAAATTCCTAAA

4505

SETX

SETX-201

D I G Q D M R V H N S T F L W F I P F V Q S L M D L K D L

ENSE00001802743

SETX-201

Donor Template WT -> SNV

Protospacer Sequence

TATAACCAGTTCTGTACGCACAA

Donor Template WT -> SNV

TATAA

gRNA Protospacer

GGGTGTGGCTTACATAGCACAGGTTGTTAATCATCTGTACTCTGAAGTCAAAGAAGTCTCTCAACCAAACAGATGCTGTGTGGTAC
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4590

SETX

SETX-201

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ENSE00001802743

SETX-201

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4675

SETX

SETX-201

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ENSE00001802743

SETX-201

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4760

SETX

SETX-201

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S S Q Q W V E A V V K C A K L P T T A F T R S S E K S S G

ENSE00001802743

SETX-201

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PCR Forward

GGCAGCAGTTTACACGGTTC

Sanger Sequencing

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4845

SETX

SETX-201

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ENSE00001802743

SETX-201

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4930

SETX

SETX-201

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L I R S L L K E G Y Q L G Q Q S L C K R F W D K L N L F

ENSE00001802743

SETX-201

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5015

SETX

SETX-201

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L R G N L S L G W Q L T S Q E T H E L Q S C L K Q I I R N

ENSE00001802743

SETX-201

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5100

SETX

SETX-201

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ENSE00001802743

SETX-201

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5185

SETX

SETX-201

E S E Q M G K T S R K D M H C L E A S S P T F S K E P M 625 630 635 640 645 650

ENSE00001802743

SETX-201

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5270

SETX

SETX-201

K V Q D S V L I K A D N T I E G D N N E Q N Y I K D V K L 655 660 665 670 675

ENSE00001802743

SETX-201

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5355

SETX

SETX-201

E D H L L A G S C L K Q S S K N I F T E R A E D Q I K I 680 685 690 695 700 705

ENSE00001802743

SETX-201

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5440

SETX

SETX-201

S T R K Q K S V K E I S S Y T P K D C T S R N G P E R G 710 715 720 725 730 735

ENSE00001802743

SETX-201

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5525

SETX

SETX-201

C D R G I I V S T R L L T D S S T D A L E K V S T S N E D 740 745 750 755 760

ENSE00001802743

SETX-201

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AAAGAGAAATTTCTACTACGAGAACGATTTTGGAGTTTTGCTTTTTGATTCCATGTCTTTCTACTTTAGACACGTTTCAATAGT

5610

SETX

SETX-201

765 770 775 780 785 790
F S L K D D A L A K T S K R K T K V Q K D E I C A K L S

ENSE00001802743

SETX-201

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5695

SETX

SETX-201

795 800 805 810 815 820
H V I K K Q H R K S T L V D N T I N L D E N L T V S N I

ENSE00001802743

SETX-201

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5780

SETX

SETX-201

825 830 835 840 845
E S F Y S R K D T G V Q K G D G F I H N L S L D P S G V L

ENSE00001802743

SETX-201

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CCTACTATTCTTACCTCTTGTTTTTAGAGTTTTGTTACATAACGGTTTTCTCTTTGTTAATTTCTTACTTCTTAATCAATAAAAG

5865

SETX

SETX-201

850 855 860 865 870 875
D D K N G E Q K S Q N N V L P K E K Q L K N E E L V I F

ENSE00001802743

SETX-201

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AGAAAGGTACTTTTGTAAACATTTTATGTCTTAAAGTACAACCTACCATTTCTTAACTAGGGAAAATGTCTTTACTGTTACGAA

5950

SETX

SETX-201

880 885 890 895 900 905
S F H E N N C K I Q E F H V D G K E L I P F T E M T N A

ENSE00001802743

SETX-201

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6035

SETX

SETX-201

910 915 920 925 930
S E K K S S P F K D L M T V P E S R D E E M S N S T S V I

ENSE00001802743

SETX-201

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AATAAGATTGAACTGTTCTCTTGTCCGGGGACTGTAGTCAGGATTTAGACTGTGGAATTGCCTAAGAGTCTATCTGTCTCTGGAA

6120

SETX

SETX-201

935 940 945 950 955 960
Y S N L T R E Q A P D I S P K S D T L T D S Q I D R D L

ENSE00001802743

SETX-201

CACAAATTATCTTTACTAGCTCAAGCCAGTGTATTACGTTCCCATCCGATTCACCTCAGAACTCATCGCAGCTGCAAAGGAAAG
GTGTTTAATAGAAATGATCGAGTTCGGTCACAATAATGCAAGGGTAGGCTAAGTGGAGTCTTGAGTAGCGTCGACGTTTCTTTTC

6205

SETX

SETX-201

965 970 975 980 985 990
H K L S L L A Q A S V I T F P S D S P Q N S S Q L Q R K

ENSE00001802743

SETX-201

TAAAAGAAGATAAAAGATGTTTTCACAGCTAACCAAAATAATGTTGGAGATACCTCCCCTGGACAGGTTATTATTATTTTCAGATTC
ATTTTCTTCTATTTTCTACAAAGTGTGCGATTGGTTTTATTACAACCTCTATGGAGGGCACCTGTCCAATAATAATAAAGTCTAAG

6290

SETX

SETX-201

995 1000 1005 1010 1015
V K E D K R C F T A N Q N N V G D T S R G Q V I I I S D S

ENSE00001802743

SETX-201

TGATGATGATGATGATGAAAGAATCCTGAGTCTTGAGAACTCACTAAACAGGACAAAATATGCCTTGAGAGGGAAACATCCAGAG
ACTACTACTACTACTTTCTTAGGACTCAGAACTCTTTGAGTGATTTGTCTGTTTTATACGGAACCTCTCCCTTGTAGGTCTC

6375

SETX

SETX-201

1020 1025 1030 1035 1040 1045
D D D D D E R I L S L E K L T K Q D K I C L E R E H P E

ENSE00001802743

SETX-201

CAGCACGTTTCAACAGTTAATAGTAAGGAGGAAAAGAATCCAGTAAAGGAAGAAAAGACAGAGACTCTTTTTTCAGTTTGAGGAAT
GTCGTGCAAAGTTGTCAATTATCATTCTCTTTTCTTAGGTCATTTCTTTCTTTCTGTCTCTGAGAAAAAGTCAAACCTCTTA

6460

SETX

SETX-201

1050 1055 1060 1065 1070 1075
Q H V S T V N S K E E K N P V K E E K T E T L F Q F E E

ENSE00001802743

SETX-201

CTGATTCTCAGTGTGTTTGGAGTTTGAAGTTTCATCTGAAGTGTGTTTTCAGTTTGGCAAGATCATCCAGACGATAATAATTCAGTTCA
GACTAAGAGTCACAAAACCTCAAACCTTCAAGTAGACTTCACAAAAGTCAAACCGTTCTAGTAGGTCTGCTATTATTAAGTCAAGT

6545

SETX

SETX-201

1080 1085 1090 1095 1100
S D S Q C F E F E S S S E V F S V W Q D H P D D N N S V Q

ENSE00001802743

SETX-201

AGATGGTGAGAAAAAATGTTTGGCTCCTATAGCCAATACTACAAATGGTCAGGGTTGTACAGATTATGTATCTGAAGTTGTTAAA
TCTACCACTCTTTTTTACAAAACCGAGGATATCGGTTATGATGTTTACCAGTCCCAACATGTCTAATACATAGACTTCAACAATTT

6630

SETX

SETX-201

1105 1110 1115 1120 1125 1130
D G E K K C L A P I A N T T N G Q G C T D Y V S E V V K

ENSE00001802743

SETX-201

AAAGGAGCAGAGGGCATTGAAGAACACACAAGACCACGGAGTATTTCTGTTGAAGAATTTTGTGAAATTGAAGTAAAAAAGCCTA
TTTCTCGTCTCCCGTAACTTCTTGTGTGTTCTGGTGCCTCATAAAGACAACCTTCTTAAACACTTTAACTTCATTTTTTTCGGAT

6715

SETX

SETX-201

1135 1140 1145 1150 1155 1160
K G A E G I E E H T R P R S I S V E E F C E I E V K K P

ENSE00001802743

SETX-201

AGAGAAAACGATCTGAAAAACCAATGGCTGAAGATCCTGTGAGGCCTTCATCTTCTGTGAGAAATGAGGGCCAGTCTGATACTAA
TCTCTTTGCTAGACTTTTTGGTTACCGACTTCTAGGACACTCCGGAAGTAGAAGACAGTCTTTACTCCCGGTCAGACTATGATT

6800

SETX

SETX-201

1165 1170 1175 1180 1185
K R K R S E K P M A E D P V R P S S S V R N E G Q S D T N

ENSE00001802743

SETX-201

TAAGAGAGATCTTGTGGGAAATGATTTTTAAAAGTATTGATAGAAGGACTTCAACTCCCAATTCACGTATTCAGAGAGCCACTACG
ATTCTCTCTAGAACACCCTTTACTAAAATTTTCATAACTATCTTCTGAAAGTTGAGGGTTAAGTGCATAAGTCTCTCGGTGATGC

6885

SETX

SETX-201

1190 1195 1200 1205 1210 1215
K R D L V G N D F K S I D R R T S T P N S R I Q R A T T

ENSE00001802743

SETX-201

GTTTCACAAAAGAAGTCTTCAAAGCTTTGTACTTGTACAGAACCCATCAGGAAAGTTCCAGTTTCTAAGACCCCTAAGAAAATC
CAAAGTGTTTTCTTCAAGAGTTTCGAAACATGAACATGTCTTGGGTAGTCTTTCAAGGTCAAAGATTCTGGGGATTCTTTTGAG

6970

SETX

SETX-201

1220 1225 1230 1235 1240 1245
V S Q K K S S K L C T C T E P I R K V P V S K T P K K T

ENSE00001802743

SETX-201

ATTCAGATGCCAAAAAAGGACAGAATAGAAGTTCAAATTACCTAAGTTGTAGAACAACCTCCTGCTATAGTGCCGCCAAAAGAAATT
TAAGTCTACGGTTTTTTCTGTCTTATCTTCAAGTTTAATGGATTCAACATCTTGTGAGGACGATATCACGGCGGTTTTCTTTAA

7055

SETX

SETX-201

1250 1255 1260 1265 1270
H S D A K K G Q N R S S N Y L S C R T T P A I V P P K K F

ENSE00001802743

SETX-201

TCGT CAGT GTCCTGAGCCAACCTTCAACAGCTGAGAAACTTGGCCTGAAAAAGGGTCTCTCGTAAGGCATATGAGTTGTCCCAGCGG
AGCAGTCACAGGACTCGGTTGAAGTTGTCGACTCTTTGAACCGGACTTTTTTCCCAGGAGCATTCCGTATACTCAACAGGGTCGCC

7140

SETX

SETX-201

1275 1280 1285 1290 1295 1300
R Q C P E P T S T A E K L G L K G P R K A Y E L S Q R

ENSE00001802743

SETX-201

TCTTTGGATTATGTAGCTCAATTACGTGATCATGGCAAACTGTTGGAGTAGTTGATACCCGAAAAAAGACTAAATTAATTTCTC
AGAAACCTAATACATCGAGTTAATGCACTAGTACCGTTTTGACAACCTCATCAACTATGGGCTTTTTTCTGATTTAATTAAGAG

7225

SETX

SETX-201

1305 1310 1315 1320 1325 1330
S L D Y V A Q L R D H G K T V G V D T R K K T K L I S

ENSE00001802743

SETX-201

CTCAGAACCTGTCTGTCAGAAATAATAAGAACTTCTGACTAGTCAAGAACTTCAGATGCAAAGGCAGATCAGACCCAAATCACA
GAGTCTTGGACAGACAGTCTTTATTATTCTTTGAAGACTGATCAGTTCTTGAAGTCTACGTTTCCGTCTAGTCTGGGTTTAGTGT

7310

SETX

SETX-201

1335 1340 1345 1350 1355
P Q N L S V R N N K K L L T S Q E L Q M Q R Q I R P K S Q

ENSE00001802743

SETX-201

AAAAAATAGACGAAGACTTTCTGATTGTGAAAGTACAGATGTTAAAAGAGCAGGGTCACATACAGCACAGAATTCTGACATATTT
TTTTTTATCTGCTTCTGAAAGACTAACACTTTTCATGTCTACAATTTTCTCGTCCCAGTGATGTCGTGCTTTAAGACTGTATAAA

7395

SETX

SETX-201

1360 1365 1370 1375 1380 1385
K N R R R L S D C E S T D V K R A G S H T A Q N S D I F

ENSE00001802743

SETX-201

GTACCAGAACTCTGATAGGTCAGATTATAATTGTACAGGAGGAACTGAGGTACTTGCCAACAGTAACAGAAAAACAGTTAATAAAAT
CATGGTCTTAGACTATCCAGTCTAATATTAACATGTCTCTTACTCCATGAACGGTTGTCATTGTCTTTTGTCAATTATTTTA

7480

SETX

SETX-201

1390 1395 1400 1405 1410 1415
V P E S D R S D Y N C T G G T E V L A N S N R K Q L I K

ENSE00001802743

SETX-201

GCATGCCTTCTGAACCAGAAACCATAAAAAGCAAAACATGGGTCTCCAGCAACTGATGATGCTTGCCCTTTGAACCAGTGTGATTC
CGTACGGAAGACTTGGTCTTTGGTATTTTCGTTTTGTACCCAGAGGTCGTTGACTACTACGAACGGGAAACTTGGTCACACTAAG

7565

SETX

SETX-201

1420 1425 1430 1435 1440
C M P S E P E T I K A K H G S P A T D D A C P L N Q C D S

ENSE00001802743

SETX-201

TG TAGTGT TAAATGGAACAGTACCAACAAATGAAGTAATTGTCTCCACTTCAGAAGACCCCTCTGGGTGGAGGTGATCCAACAGCA
ACATCACAATTTACCTTGTGCATGGTTGTTTACTTTCATTAACAGAGGTGAAGTCTTCTGGGAGACCCACCTCCACTAGGTTGTCGT

7650

SETX

SETX-201

1445 1450 1455 1460 1465 1470
V V L N G T V P T N E V I V S T S E D P L G G G D P T A

ENSE00001802743

SETX-201

CGTCATATAGAGATGGCAGCTTTGAAAGAAGGAGAGCCTGACTCCAGCAGTGATGCAGAGGAAGATAACTTATTTTTAACCCAAA
GCAGTATATCTCTACCGTCGAAACTTTCTTCTCTCGGACTGAGGTCGTCCTACTACGTCTCTTCTATTGAATAAAAAATTGGGTTT

7735

SETX

SETX-201

1475 1480 1485 1490 1495 1500
R H I E M A A L K E G E P D S S S D A E E D N L F L T Q

ENSE00001802743

SETX-201

ATGATCCTGAAGATATGGATTTATGTTTCAAAATGGAGAATGACAATTATAAACTCATTGAACTAATTCATGGAAAAGATACAGT
TACTAGGACTTCTATAACCTAAATACAAGTGTTTACCTCTTACTGTTAATATTTGAGTAACTTGATTAAGTACCTTTTCTATGTCA

7820

SETX

SETX-201

1505 1510 1515 1520 1525
N D P E D M D L C S Q M E N D N Y K L I E L I H G K D T V

ENSE00001802743

SETX-201

TGAGGTTGAAGAAGATTCTGTAAGTCGGCCTCAGTTGGAATCTTTGAGTGGCACAAAAGTGAAGTACAAAAGATTGTCTTGAAACC
ACTCCAACCTTCTTCTAAGACATTTCAGCCGGAGTCAACCTTAGAAACTCACCGTGTTTTACATTCATGTTTCTAACAGAACCTTTGG

7905

SETX

SETX-201

1530 1535 1540 1545 1550 1555
E V E E D S V S R P Q L E S L S G T K C K Y K D C L E T

ENSE00001802743

SETX-201

ACAAAAAACCAGGGTGAATACTGCCCAAAACACTCTGAAGTGAAGCAGCAGATGAAGATGTATTTTCGTAAACCTGGCTTGCCCTC
TGTTTTTTGGTCCCACTTATGACGGGTTTTGTGAGACTTCACTTTTCGTCTACTTCTACATAAAGCATTTGGACCGAACGGAG

7990

SETX

SETX-201

1560 1565 1570 1575 1580 1585
T K N Q G E Y C P K H S E V K A A D E D V F R K P G L P

ENSE00001802743

SETX-201

CTCCTGCATCTAAACCTTTGAGACCTACCACTAAGATTTTTAGCTCAAAGAGTACTTCACGAATTGCTGGTCTTTCTAAATCTTT
GAGGACGTAGATTTGGAAACTCTGGATGGTGATTCTAAAAATCGAGTTTCTCATGAAGTGCTTAACGACCAGAAAAGATTTAGAAA

8075

SETX

SETX-201

1590 1595 1600 1605 1610
P P A S K P L R P T T K I F S S K S T S R I A G L S K S L

ENSE00001802743

SETX-201

GGAAACTTCTTCAGCACTTTACCCGTCTCTAAAAAATAAGTCAAAGGGGATACAGTTCGATTTTTGAAAAGTACCACAGCCAGTTCCC
CCTTTGAAGAAGTCTGTGAAAGTGGCAGAGATTTTTTATTTCAGTTTTCCCTATGTCTCAGCTAAAACTTTTCATGGTGTCTCGGTCAAGGG

8160

SETX

SETX-201

1615 1620 1625 1630 1635 1640
E T S S A L S P S L K N S S K G I Q S I L K V P Q P V P

ENSE00001802743

SETX-201

CTCATAGCTCAGAAGCCAGTTGGTGAAATGAAGAATTCGTGCAATGTTCTTCATCCTCAGTCTCCGAATAATTCCAACAGGCAAG
GAGTATCGAGTCTTCGGTCAACCACTTTACTTCTTAAGCACGTTACAAGAAGTAGGAGTCAGAGGCTTATTAAGGTTGTCCGTTTC

8245

SETX

SETX-201

1645 1650 1655 1660 1665 1670
L I A Q K P V G E M K N S C N V L H P Q S P N N S N R Q

ENSE00001802743

SETX-201

GTTGCAAAGTTCCATTTGGTGAAAGCAAATATTTTTCCATCTTCTCCTCTCCAGTAAACATTCTTTTGTTCATCACAGTCTGTCTCTGA
CAACGTTTCAAGGTAAACCACTTTTCGTTTATAAAAGGTAGAAGGAGAGGTCATTTGTAAGAAAACAGTAGTGTCTCAGACAGAGACT

8330

SETX

SETX-201

1675 1680 1685 1690 1695
G C K V P F G E S K Y F P S S S P V N I L L S S Q S V S D

ENSE00001802743

SETX-201

CACCTTCGTTAAAGAGGTCTTAAAAATGGAAATATGAAATGTTTTTGAACCTTTGGTCAGTGTGGGCCCCCTGCAAGTCTTTGTCAG
GTGGAAGCAATTTCTCCAGAATTTTACCTTTATACTTTACAAAACTTGAAACCAGTCCACACCCGGGGGACGTTTCAGAAACAGTC

8415

SETX

SETX-201

1700 1705 1710 1715 1720 1725
T F V K E V L K W K Y E M F L N F G Q C G P P A S L C Q

ENSE00001802743

SETX-201

TCCATCTCAAGACCTGTGCCTGTCAGATTTACAAATTATGGAGATTATTTTAAATGTTTTTTCCCTTTGATGGTATTGAATACTT
AGGTAGAGTTCTGGACACGGACAGTCTAAAGTGTTAATACCTCTAATAAAATTACAAAAAAGGGAAACTACCATAACTTATGAA

8500

SETX

SETX-201

1730 1735 1740 1745 1750 1755
S I S R P V P V R F H N Y G D Y F N V F F P L M V L N T

ENSE00001802743

SETX-201

TTGAAACAGTAAGTATGTGTTTCATTTGTATGCCTCTCCAACTTTTCAAGTTACCTCTTTACCTTGCTGAGTGAAAATGAGAGT
AACTTTGTCAATTCATACACAAAGTAAACATACGGAGAGGTTTGAAGGTTCAATGGAGAAATGGAACGACTCACTTTTACTCTCA

8585

SETX

SETX-201

F E T V S M C F I C M P L Q T F Q V T S L P C *
ENSE000... (in frame with SETX-201)

SETX-201

ATAG 3'
TATC 5'

SETX

SETX-201

Feature	Location	Size	Color	Symbol	Type
✓ SETX	1 .. 8589	8589 bp	Grey	→	gene
/note	= gene ENSG00000107290 Protein coding				
✓ SETX-201	1 .. 8589	8589 bp	Yellow	→	prim_transcript
/note	= primary transcript ENST00000224140				
✓ SETX-201	105 .. 8508	8404 bp	Red	→	CDS
▶ 4 segments	= 4556 bp				
/codon_start	= 1				
/note	= coding sequence ENSP00000224140				
/translation	= ICMLLTILEEQAMDSLLLGSQKQNDFMQSILHTMEREAD,,DDSVDPFPAALHCFMVILDRLGSKVWGQLMDPIVAFQTIINNASYNREIRHIRNS SVR,,TKLEPESYLDDMVTCISQIVYNYNPEKTKK,,DSGWRTAICPDYCPNMYEEMETLASVLQSDIGQDMRVHNSTFLWFIPFVQSLMDLKDGLV AYIAQVVNHLHYSEVKEVLNQTDVAVCDKVTFFLLILVSVIELHRNKKCLHLLWSSQQWVEAVVKCAKLPTTAFTRSSEKSSGNCCKGTAMISSL SLHSMPSNSVQLAYVQLIRSLKKEGYQLGQQSLCKRFWDKLNFLRGNLSLWQLTSQETHLQSLCKQIIRNIKFKAPPCNTFVLDLTSACKISPA SYNKEESEQMGKTSRKDMHCLEASSPTFSKEPMKVQDSVLIKADNTIEGDNNEQNYIKDVKLEDHLLAGSCLKQSSKNIFTERAEDQIKISTRKQ KSVKEISSYTPKDCTSRNGPERGCDRGIIVSTRLLTDSSTDALEKVSTSNEDFSLKDDALAKTSKRKTQVQKDEICAKLSHVIKKQHRKSTLV DNT INLDENLTVSNIESFYSRKDTGVQKGDGFIHNLSDPSGVLDKNGEQKSNVLPKEKQLKNEELVIFSFHENNCKIQEFHVDGKELIPFTEMTN ASEKKSSPFKDLMTVPESRDEEMSNTSVIYSNLTREQAPDISPKSDTLTDSQIDRDLHKLSELLAQASVITFPDSDPQNSSQLQRKV KEDKRCFTA NQNNVGDTSRQGVIIISDSDDDDDERILSLEKLTQDKICLEREHPHQVSTVNSKEEKNPVKEEKTETLQFEESDSQCFEFESSEVFSVWQD HPDDNNSVQDGEKKCLAPIANTTNGQGCTDYVSEVVKGAEGIEEHTRPRSISVEEFCEIEVKKPKRKRSEKPAEDPVRPSSSVRNEGQSDTN KRDLVGNDFKSIDRRTSTPNRIQRATTVSQKKSSKLCCTEPIRKVPVSKTPKTHSDAKKGQNRSSNYLSCRTTPAIVPPKFRQCPEPTSTAE KLGLKKGPRKAYELSQLSLDYVAQLRDHGKTGVVDTRKKTKLISPNLSVRNKKLLTSQELQMQRQIRPKSQKNRRRLSDCESTDVKRA GSH TAQNSDIFVPESDRSDYNCTGGTEVLANSNRKQLIKCMPSEPETIKAKHGSPATDDACPLNQCDSSVVLNGTVPTNEVIVSTSEDPLGGGDPTAR HIEMAALKEGEPDSSSDAEEDNLFQNDPEMDLCSQMENDNYKLIHIGKDTVEVEEDSVSRPQLESLSGKCKYKDCLETTKNQGEYCPK HSEVKAADEDVERKPPAPASKPLRPTTKIFSSKSTSRIALGSKSLETSSALSPSLKNKSKGIQSIKLVQPVPVPLIAQKPVGEMKNSCNVLHPQS PNNSNROGCKVPFGESKYFPSSSPVNILLSSQSVSDTFVKEVLKWKYEMFLNFGQCGPPASLCQSI SRPVPVRFHNYGDYFNVFFPLMVLNTFET				
✓ Donor Template WT -> SNV	4357 .. 4443	87 bp	Blue	⊢	misc_feature
✓ SNV	4400 .. 4400	1 bp	Yellow	⊢	misc_feature
/note	= WT = T SNV = C				
✓ PAM	4403 .. 4405	3 bp	Yellow	⊢	misc_feature
✓ Protospacer Sequence	4406 .. 4425	20 bp	Red	⊢	misc_feature
✓ Silent SNV	4407 .. 4407	1 bp	Green	⊢	misc_feature
/note	= WT = T SNV = C				

Primer	Length	Binding Sites	Tm	Date Added
✓ PCR Reverse	22-mer	4276 .. 4297	58°C	Jan 20, 2023
/sequence = TGAACCTGTCATAAGTGGTGCT 45% GC / 6765.5 Da				
✓ Donor Template WT -> SNV	87-mer	4357 .. 4443	71°C	Jan 20, 2023
/sequence = AACACGCATGTCTTGACCAATATCTGACTGAAGTACGCTGGCTGATGTTTCCATTTCTTCATACATGTTAGGACAATAATCTGGGCA 41% GC / 26,759.5 Da				
✓ gRNA Protospacer	20-mer	4406 .. 4425	49°C	Jan 20, 2023
/sequence = AATATCTGACTGAAGTACAC 35% GC / 6109.1 Da				
✓ PCR Forward	20-mer	4697 .. 4716	59°C	Jan 20, 2023
/sequence = CTTGGCACATTTGACGACGG 55% GC / 6133.0 Da				
✓ Sanger Sequencing	20-mer	4697 .. 4716	59°C	Jan 20, 2023
/sequence = CTTGGCACATTTGACGACGG 55% GC / 6133.0 Da				