



**INK2S00108\_SETX\_L389S\_A02\_AB**  
 8689 bp

5'

3'

AATTGTTTTCTAACCATCTTGTACTTTACACTTGAATTAGTCTAGAGTTCTATTACTTGGGAGCAGTTGTGTATGAATATCTGA  
TTAACAAAAGATTGGTAGAACATGAAAGTGTGAACTTAATCAGATCTCAAGATAATGAACCCTCGTCAACACATACTTATAGACT

85

SETX

SETX-201

GACTTAAATGTTTGGAGAACTAAATACTATCTTGTCTTCATCTTCTGCCTTGTATTCTTTTGCAAACTAAACCAGGCATTAGTA  
CTGAATTTACAAACTCTTTGATTTATGATAGAACGAAGTAGAAGGACGGAACAATAAGAAAACGTTTGTATTGGTCCGTAATCAT

170

SETX

SETX-201

TAGTATTATTTTCATCAATTCAAGATAACTCTAAATGATCTTACAGGTATTTGCATGTTGCTGACCATTCTTGAGGAAACAAGCCAT  
ATCATAATAAAGTAGTTAAGTTCTATTGAGATTTACTAGAATGTCCATAAACGTACAACGACTGGTAAGAACTCCTTGTTCGGTA

255

SETX

SETX-201

I C M L 245 T I L E 250 Q A M

ENSE00001709422

SETX-201

GGATTCCCTGTTGTTGGGCTCAGACAAACAAAATGATTTTATGCAATCGATACTTCACACTATGGAGAGGGAAGCAGATGGTAAT  
CCTAAGGGACAACAACCCGAGTCTGTTTGTTTTACTAAAATACGTTAGCTATGAAGTGTGATACCTCTCCCTTCGTCTACCATTA

340

SETX

SETX-201

D S L L L G S D K Q N D F M Q S I L H T M E R E A D

ENSE00001709422

SETX-201

AACTTTACTTGCTGAATGTTGTTGAATATAGTGATGATGACACTTTAAAAATGATAGTGTCACTGCAGGAATTGGTGTATGT  
TTTGAAATGAACGACTTACAACAACCTTATATCACTACTACTACGTGAAATTTTTACTATCACAGTGACGTCCTTAACCACATACA

425

SETX

SETX-201

SETX-201

TGTGGAGAAAAGAATTTTTCTGGTTTAGTAATAGATTCAGACTTTTTATTTTGTTTTGTTTTGTTTTGTATACGAAGTCATACT  
ACACCTCTTTTCTTAAAAAGACCAAATCATTATCTAAGTCTGAAAAATAAAACAAAACAAAACAAAACAACTATGCTTCAGTATGA

510

SETX

SETX-201

SETX-201

CTTGTGCCCAGGCTGGAGTGCAATGGTGCGATGTCAGCTCACTGCAACCTCCACCTCCTGGGTTCAAGAAATTCCTTGTCTCA  
GAACAACGGGTCCGACCTCACGTTACCACGCTACAGTTCGAGTGACGTTGGAGGTGGAGGACCCAAGTTCTTTAAGGGGACAGAGT

595

SETX

SETX-201

SETX-201

GCCTCCCAAGTAGCTGGGACTACAGGCGTGCACCACCACGCCAGCTAATTTTTTGTATTTTTAGTAGAGACGGGGTTTCACCA  
CGGAGGGTTCATCGACCCTGATGTCCGCACGTGGTGGTGCGGGTCGATTAACAAAACATAAAAATCATCTCTGCCCAAAGTGGT

680

SETX

SETX-201

SETX-201

CGTTGGTCAGGCTGGTCTTGAACCTCTTGATCTCAGGTGATCTGCCTGCCTTGGCCTCCCAAAGTGCTGGGATTACAGGCATGAGA  
GCAACCAGTCCGACCAGAACTTGAGAACTAGAGTCCACTAGACGGACGGAACCGGAGGGTTTCACGACCCTAATGTCCGTA

765

SETX

SETX-201

SETX-201

CTTTTAAATCAGAAAGGACCTTTATAATTTAATTCAATACCTTCCCTTTCATAGAAGAAGGGAAGTTAATCTACTTTTTTCATGATG  
GAAAAATTTAGTCTTTCCCTGGAAATATTAATTAAGTTATGGAAGGAAAGTATCTTCTTCCCTTCAATTAGATGAAAAAGTACTAC

850

SETX

SETX-201

SETX-201

AAAAAGTTGGTGGTAGGATGAACATCAGAACCTCTGGGAGACCCATTTGTAATGACATTGTGGTTAACATTGTGGGGTAAGCCTT  
TTTTTCAACCACCATCCTACTTGTAGTCTTGGAGACCCCTCTGGGTAAACATTACTGTAACACCAATTGTAACACCCCATTCGGAA

935

SETX

SETX-201

SETX-201

CTCTGTCCCATGGCCTCCCTTTGCCTGCCTCTTTGTTTCTCTGTGGTTCTCTAATACAGTAACTGCCAGCCACATGTGATTATTA  
GAGACAGGGTACCGGAGGGAAACGGACGGAGAAACAAAGAGACACCAAGAGATTATGTCATTGACGGTCGGTGTACACTAATAAT

1020

SETX

SETX-201

SETX-201

AAATAAATTTAAGTCAATTAAAAATAAAAATGCAGTTATTTGGTCCCCTAGTCATATTTCAAGGCTCAATGGCCACACGTGCCT  
TTTATTTAAATTCAGTTAATTTTAATTTTTACGTCAATAAACAGGGTGATCAGTATAAAGTTCCGAGTTACCGGTGTGCACGGA

1105

SETX

SETX-201

SETX-201

GTACTCTATCCTGTACTGTATTGAACAATGCAGAGACAGAAGATTTCCATCATCACAGAACATTCTTTGGATATGCTGCTCCAG  
CATGAGATAGGACATGACATAACTTGTACGTCTCTGTCTTCTAAAGGTAGTAGTGTCTTGTAAAGAGAACCTATACGACGAGGTC

1190

SETX

SETX-201

SETX-201

ATAGTCTAGATAATGAGGCCTAAAACCTTGTAGTCATGTTTATTATTAGATCCTGACCTCCTTTTGCTGATGCTTGTATCATGCTA  
TATCAGATCTATTACTCCGGATTTTGAACATCAGTACAAATAATAATCTAGGACTGGAGGAAAACGACTACGAACATAGTACGAT

1275

SETX

SETX-201

SETX-201

ATCATGAAGGATCTGTAATTAATAAAGTGCTTCTAATCTTTAGGAAGTAATGAATTAATAAAGACCAAGTATACCAGATCCTATG  
TAGTACTTCCTAGACATTAATTTATTACACGAAGATTAGAAATCCTTCATTACTTAATTATTTCTGGTTCATATGGTCTAGGATAC

1360

SETX

SETX-201

SETX-201

AGAAAACATAATGAGTATAATTTTTTCCCCTCATTCTCTTCATGCAACTTGAATGTTGTATATAAACTCATTGTGGGAGATTCT  
TCTTTTGTATTACTCATATTAATAAAGGGGAGTAAGAGAAGTACGTTGAACTTACAACATATATTTGAGTAAACACCCTCTAAGA

1445

SETX

SETX-201

SETX-201

AATATAAATATATTAATGTTATTCTTTTGTGGATAGGGCGTATAT  
TTATATTTATATAATTACAATAAGAAAACAACCTATCCCGCATATA

1530

SETX

SETX-201

SETX-201

ATATTTTTTTTTTTTTCTTTTTTTTTTTTTCTTTTTGAGACCAAGTCTTTCTCTCTCACCCAGGCTGGAGTGCAGTGGTGCATCT  
TATAAAAAAAAAAAGAAAAAAAAAAAAAAAAAGAAAACTCTGGTTCAGAAAGAGAGAGTGGGTCCGACCTCACGTCAACCACGCTAGA

1615

SETX

SETX-201

SETX-201

TGGCTAACTGCAGCCTCTGCCTCTGGGTTCAAGCGATTCTCCTGCCTTAGCCTCCCAAGTAGCTGGGATTACAGGTATGCACCAC  
ACCGATTGACGTCGGAGACGGAGACCCAAGTTCGCTAAGAGGACGGAATCGGAGGGTTCATCGACCCTAATGTCCATACGTGGTG

1700

SETX

SETX-201

SETX-201

CATACCTGGCTAATTTTTGTATTTTTAGTAGAGATGGTGTTCCTACTATGTTTTCCAGGCTGGTCTTGAACCTCCTGGTCTCATGTG  
GTATGGACCGATTAAAAACATAAAAAATCATCTCTACCACAAAGTGATACAAAAGGTCCGACCAGAACTTGAGGACCAGAGTACAC

1785

SETX

SETX-201

SETX-201

ATCCGCCTGCCTTGGCCTCTCAAAGTGTGGGATTACAAGCATGAGCCACCACGCCCGGCCTTTGGCATATATTTCTTGCTAGA  
TAGGCGGACGGAACCGGAGAGTTTACAACCCTAATGTTCTGTACTCGGTGGTGCGGGCCGGAACCGTATATAAAGAACGATCT

1870

SETX

SETX-201

SETX-201

TTATGTCTGAGGCTATTACTCTTTTGCCAACATTTACTGCATAAATTGTTTCATTTCTTTCCCTGTGCCTAACTACATGTATAATT  
AATACAGACTCCGATAATGAGAAAACGGTTGTAATGACGTATTTAACAAGTAAAGAAAAGGGACACGGATTGATGTACATATTTAA

1955

SETX

SETX-201

SETX-201

CTGTCCTTTCTGTTAAGCTAGCTCCCTTAACCATCTTAAAAAAAACAAACACCTTTTTTTTTTTTTTTTTCTTTTGGAGACAGGATC  
GACAGGAAAAGACAATTCGATCGAGGGAATTGGTAGAATTTTTTTTGTGTTGTGGAAAAAAAAAAAAAAAAAGAAAACCTCTGTCCTAG

2040

SETX

SETX-201

SETX-201

TCACTATCACCCACCCTGGAGTGGCTCAATCAGGTCTCACTGCAGCCTTAACCTCCCAGGCTCAAGTCATCCTCCTGCCTCTGAC  
AGTGATAGTGGGTGGGACCTCACCGAGTTAGTCCAGAGTGACGTCGGAATTGGAGGGTCCGAGTTCAGTAGGAGGACGGAGACTG

2125

SETX

SETX-201

SETX-201

TCCCTAGTAACTGGGGCCACAGGCATGTGCCATCTTACCCAGCTAATTTTTAAATTTTTGCTAGAGACAAAAGTCTCACTATGGGT  
AGGGATCATTGACCCCGGTGTCCGTACACGGTAGAATGGGTGCGATTAATAATTTAAAAACGATCTCTGTTTCAGAGTGATACCCA

2210

SETX

SETX-201

SETX-201

GTAGGCTGGTCTTGAACCTCCTGACCTCAAGCAGTCCTCCTGCCTCGGCCCTCCCAAAGTGTGGGATTTACTGGTGTGAGCCACTG  
CATCCGACCAGA AACTTGAGGACTGGAGTTCGTCAGGAGGACGGAGCCGGAGGGTTTCACAACCCTAAATGACCACACTCGGTTGAC

2295

SETX

SETX-201

SETX-201

AACCCAGCCTTGTCTTCAAAATTTAATTACCTCTTTGAGAACTTTTCATAATTGCTTTCATCTAACTACTTTGTTTCTTGTGA  
TTGGGTCGGAACAGAAGTTTTAAATTAATGGAGAACTCTTTGAAAAGTATTAACAGAAGTAGATTGATGAAACAAAGA AACT

2380

SETX

SETX-201

SETX-201

GCTTATTAGACACAGGCACTGTTTCAGATGCAGTGGAGGATACAAACATATATAAGAAAAGTTCAAATGACTGTGGTAAAGTCTGA  
CGAATAATCTGTGTCCGTGACAAAAGTCTACGTCACCTCCTATGTTTGTATATATTCTTTCAAGTTTACTGACACCATTTTCAGACT

2465

SETX

SETX-201

SETX-201

GAAGTATGAGGGAAGTAAAGTCACAAGTTCTAGGATGACGTAGCAATAGCAGTGACTGCGTGAATTC AAGCACTTGCCTCAGAAG  
CTTCATACTCCCTTCATTTTCAGTGTTCAAGATCCTACTGCATCGTTATCGTCACTGACGCACCTTAAGTTCGTGAACGGAGTCTTC

2550

SETX

SETX-201

SETX-201

AGTACTGTAGATGACTGAAGTGGGGGAATGTTTTAATATAGGAGGAGGCATTTAAGCTGGACTTTTAAGGATGGATAGGATTTTGA  
TCATGACATCTACTGACTTCACCCCCTTACAAATTATATCCTCCTCCGTA AATTCGACCTGAAAATTCCTACCTATCCTAAAAC T

2635

SETX

SETX-201

SETX-201

TATGTTGTGCTAG AATTGAGGGCATTCTAGTGCTTATTTTGGAAAAAGCCAGTGATCTATTTGTGCTGTAGATAGTGATGATTA  
ATACAACACGATCTTAACTCCCGTAAGATCACGAATAAAACCTTTTTCGGTCACTAGATAAACACGACATCTATCACATACTAAT

2720

SETX

SETX-201

SETX-201

TAGGAATATGAAAAATAAAAAATGGAAATAAACAGTAGATCAATATCTTTTAAGTTCTTGACTGAGGATTTTGAATTTTCTTGGAA  
ATCCTTATACTTTTTATTTTTACCTTTATTTGTCATCTAGTTATAGAAAATTC AAGAACTGACTCCTAAAAC TTA AAAAGAACCTT

2805

SETX

SETX-201

SETX-201

GACATTAAGTATCCATTGAAGGTCTTTGAGTAGGGCGGTATCTTGCTACTGCATATTTGATAGAGAAGCAGGAGGTTGGATGAAA  
CTGTAATTCATAGGTA AACTTCCAGAAAAC TCA TCCCGCCATAGAACGATGACGTATAAACTATCTCTTCGTCCTCCAACCTACTTT

2890

SETX

SETX-201

SETX-201

AGTAGAGAACAGCAAAGCCATGTTGAGATACAGATGGATGAAGAGTGATCTTTGCCTTATTCCTTAGCTAAAGAATTTAGTCAT  
TCATCTCTTGTCGTTTCGGTACA AACTCTATGTCTACCTACTTCTCACATAGAAAACGG AATAAGGAATCGATTTCTTAAATCAGTA

2975

SETX

SETX-201

SETX-201

TTACACTAGATGCGTGACACAAAATTCAGGATGATGCTGAAAGAGAATTTCTTGTATTATGGGCTTCATGTAGATCTGTAAATAC  
AATGTGATCTACGCACTGTGTTTTAAGTCTACTACGACTTTCTCTTAAAGAACATAATACCCGAAGTACATCTAGACATTTATG

3060

SETX

SETX-201

SETX-201

CAAGTTTCTTTCTTTCTTTCTTTATTTTTTCTCTTTCTTTCTGTTAGTTATTGGAGGATGGGACTACAAAGTTTTGGCAGGGGT  
GTTCAAAGAAAGAGAAAAGGAAATAAAAAAAGGAGAAGAAAAGACAATCAATAACCTCCTACCTGATGTTTTCAAACCGTCCCA

3145

SETX

SETX-201

SETX-201

TGAGGAGCTGAATTAGAAAAGGTTGTTTCTGGTATGGCAAACAGGGTGTGAAAAGATTGTGCTTACCTAGACTGTTTTCTTGCCC  
ACTCCTCGACTTAATCTTTTCCAACAAAGACCATACCGTTTGTCCACACTTTTCTAACACGAATGGATCTGACAAAAGAACGGG

3230

SETX

SETX-201

SETX-201

ATTAAGTAATTTGTTTGCCACTAAATTTTTTTTTTTTTTACAGACGTATCATAGTATTGCTTGCAAAAAATCTTGAAAATGTGG  
TAATTCATTAAACAAACGGTGATTTAAAAAATAAATAAATGTCTGCATAGTATCATAACGAACGTTTTTTAGAACTTTTACACC

3315

SETX

SETX-201

SETX-201

CTGCTTTTGAAACCCTCTGTGTGTCTGAGGACTGGTGGCGGCACTGCTTTAAATTATTTGCTCCTTGGCTTTTAGTTGGGTTGCT  
GACGAAAACTTTGGGAGACACACAGACTCCTGACCACCGCCGTGACGAAATTTAATAAACGAGGAACCGAAAATCAACCCAACGA

3400

SETX

SETX-201

SETX-201

ACTCACCAGATAAAGAATATGCTTAATTCTCAATATATTGTAGTATGTTTTCTAACTGTTTAGTAATTCAACGATTGTGCCATT  
TGAGTGGTCTATTTCTTATACGAATTAAGAGTTATATAACATCATACAAAAAGATTGACAAATCATTAAAGTTGCTAACACGGTAA

3485

SETX

SETX-201

SETX-201

GTATTTTCAGATGATAGTGTGGATCCTTTCTGGCCAGCGTTACACTGTTTTATGGTGATTCTGGATCGCCTTGGATCTAAGGCTG  
CATAAAGTCTACTATCACACCTAGGAAAAGACCGGTGCAATGTGACAAAATACCACTAAGACCTAGCGGAACCTAGATTCCAGAC

3570

SETX

SETX-201

280 D D S V D P F W P A L H C F M V I L D R L G S K V W 305  
ENSE00001692297

SETX-201

GGGTCAACTTATGGATCCTATTGTGGCATTTCAAACCATTATCAACAACGCAAGCTACAATAGAGAGATCCGACATATACGGAAC  
CCCAGTTGAATACCTAGGATAACACCGTAAAGTTTTGGTAATAGTTGTTGCGTTCGATGTTATCTCTCTAGGCTGTATATGCCTTG

3655

SETX

SETX-201

G Q L M D P I V A F Q T I I N N A S Y N R E I R H I R N  
ENSE00001692297

SETX-201

AGCTCTGTAAGGTTAGTTTCAGCTAATGTCAGGATTTAAACATCATCTCTATAAGAAAGTGTGTTCCAGCTAGATTACTTAACAAG  
TCGAGACATTCCAATCAAGTCGATTACAGTCCTAAATTTGTAGTAGAGATATTCTTTTACACAAGGTCGATCTAATGAATTGTTTC

3740

SETX

SETX-201

335  
S S V R  
ENSE00001692...

SETX-201

AGGTGTTTTCTTCCTTTTTTCCCCCTTCGTTTCAGTAATTTCTATTTATTCTTAATATTTAAGGACCAAGTTAGAACC GGAGTCC  
TCCACAAAAGAAGGAAAAAAGGGGGAAGCAAAGTCATTAAAGATAAATAAGAATTATAAATTCCTGGTTCAATCTTGGCCTCAGG

3825

SETX

SETX-201

340  
T K L E P E S  
ENSE00001668729

SETX-201

TATTTGGATGATATGGTGACTTGCAGCCAGATCGTATACAATTATAATCCTGAAAAGACCAAAAAGGTATAAAACACTTTGAAAA  
ATAAACCTACTATAACCACTGAACGTCGGTCTAGCATATGTTAATATTAGGACTTTTCTGGTTTTTCCATATTTTGTGAAACTTTT

3910

SETX

SETX-201

345 350 355 360 365  
Y L D D M V T C S Q I V Y N Y N P E K T K K  
ENSE00001668729

SETX-201

TTCAGATGCTATTTTATTGCCTTTATATTGTGTAGACTATTTTGTATAATTTGTTGAGTTGCAGATTTTGTGATATGTAGCTGTT  
AAGTCTACGATAAAAATAACGGAAATATAACACATCTGATAAAACATATTAACAACCTCAACGTCCTAAAACACTATACATCGACAA

3995

SETX

SETX-201

SETX-201

CTCAATCTACTGCTATGTAAGGCCCTTCTCATTGAACAGCAGATGTATTGTGTGTTGGGGAAGATGGACTCTAACTACAGTATG  
GAGTTAGATGACGATACATTTTTCGGGAAGAGTAACTTGTCTGCTACATAACACACAACCCCTTCTACCTGAGATTGATGTCATAC

4080

SETX

SETX-201

SETX-201

CATACTTTGGAAAATTAACCTTATAAGTACATTTAGGGAAGATGGAAAAGTTTATGGGGACATACATGGCATGACTAGAAAATCAAAA  
GTATGAAACCTTTTAATTGAATATTCATGTAAATCCCTTCTACCTTTCAAATACCCCTGTATGTACCGTACTGATCTTTAGTTTT

4165

SETX

SETX-201

SETX-201

CTAGCTAGTGGACAGAAGGTGAGAGTACATAAAGGTGTTACCAATTTGTCTTTTTATGAAAACCTCAAAATTC AATTTATATTTTC  
GATCGATCACCTGTCTTCCACTCTCATGTATTTCCACAATGGTTAAACAGAAAAATACTTTTGAGTTTTAAGTTAAATATAAAAAG

4250

SETX

SETX-201

SETX-201



ACTTTCTTGGGAGTTAGGTGTATTACGATTGTGATATAATTATATGCCACAATTATACCATTGTATAGCATAATAATGATGTGGT  
TGAAAGAACCCTCAATCCACATAATGCTAACACTATATTAATATACGGTGTTAATATGGTAACATATCGTATTACTACACCA

4335

SETX

SETX-201

SETX-201

PCR Reverse

TGAACCTGTCATAAGTGGTGCT

AAACCAAAATAAGAGAGTTGAGAAACGTATTTTTCTTAACGACTTGGGTGTTGAACCTGTCATAAGTGGTGCTTATTTATCTGAA  
TTTGGTTTTATTCTCTCAACTCTTTGCATAAAAAAGAATTGCTGAACCCACAACCTTGGACAGTATTCACCACGAATAAATAGACTT

4420

SETX

SETX-201

SETX-201

CATCAGCATTCTTTTCATTTTAGGATTCTGGATGGAGAACAGCCATTTGCCAGATTATTGTCCTAACATGTATGAAGAAATGGA  
GTAGTCGTAAAGAAAGTAAAATCCTAAGACCTACCTCTTGTGCGGTAACGGGTCTAATAACAGGATTGTACATACTTCTTTACCT

4505

SETX

SETX-201

D S G W R T A I C P D Y C P N M Y E E M E  
ENSE00001802743

SETX-201

Donor Template WT -> SNV

ACGGGTCTAATAACAGGATTGTACATACTTCTTTACCT

Donor Template WT -> SNV

AACATAGCCAGTGTACTTCAGTCAGATATTGGTCAAGACATGCGTGTTTCATAACAGCACATTTCTATGGTTTCATCCCTTTTGTG  
TTGTAATCGGTCACATGAAGTCAGTCTATAACCAGTTCTGTACGCACAAGTATTGTCGTGTAAGATACCAAGTAGGGAAAACAG

4590

SETX

SETX-201

T L A S V L Q S D I G Q D M R V H N S T F L W F I P F V  
ENSE00001802743

SETX-201

Donor Template WT -> SNV

SNV PAM Protospacer Sequence

Silent SNV

TTGTAATCGGTCACATGAAGTCAGTCTATAACCAGTTCTGTACGCACAA

Donor Template WT -> SNV

CACATGAAGTCAGTCTATAA

gRNA Protospacer

CAGTCCCTCATGGATCTTAAGGATTTGGGTGTGGCTTACATAGCACAGGTTGTTAATCATCTGTACTCTGAAGTCAAAGAAGTCC  
GTCAGGGAGTACCTAGAATTCTAAACCCACACCGAATGTATCGTGTCCAACAATTAGTAGACATGAGACTTCAGTTTCTTCAGG

4675

SETX

SETX-201

Q S L M D L K D L G V A Y I A Q V V N H L Y S E V K E V  
ENSE00001802743

SETX-201

TCAACCAAACAGATGCTGTGTGTGACAAAGTCACTGAATTTTTTCTTCTAATTTTGGTATCAGTGATTGAACTGCATAGAAATAA  
AGTTGGTTTGTCTACGACACACACTGTTTTTCAGTGACTTAAAAAAGAAGATTAACCATAGTCACTAACTTGACGTATCTTTATT

4760

SETX

SETX-201

445 450 455 460 465 470  
L N Q T D A V C D K V T E F F L L I L V S V I E L H R N K

ENSE00001802743

SETX-201

AAAATGTTTGCATTTGCTGTGGGTAAGTTCCAGCAATGGGTGGAAGCCGTCGTCAAATGTGCCAAGCTTCTACCCTGCGTTT  
TTTTACAAACGTAAACGACACCCATTCAAGGGTTCGTTACCCACCTTCGGCAGCAGTTTACACGGTTTCGAAGGATGGTGACGCAAA

4845

SETX

SETX-201

475 480 485 490 495 500  
K C L H L W V S Q Q W V E A V V K C A K L P T T A F

ENSE00001802743

SETX-201

GGCAGCAGTTTACACGGTTC

PCR Forward

GGCAGCAGTTTACACGGTTC

Sanger Sequencing

ACACGGAGTTCTGAGAAATCATCTGGAAATTGCTCCAAAGGAACAGCAATGATATCTTCACTGTCATTGCATTCCATGCCATCTA  
TGTGCCTCAAGACTCTTTAGTAGACCTTTAACGAGGTTTCTTGTCTGTTACTATAGAAGTGACAGTAACGTAAGGTACGGTAGAT

4930

SETX

SETX-201

505 510 515 520 525  
T R S S E K S S G N C S K G T A M I S S L S L H S M P S

ENSE00001802743

SETX-201

ACTCTGTACAACCTTGCTTATGTGCAGCTGATTAGAAGTCTCCTTAAAGAAGGTTATCAGCTTGGGCAGCAGTCTCTTTGCAAGCG  
TGAGACATGTTGAACGAATACACGTCGACTAATCTTCAGAGGAATTTCTTCCAATAGTCGAACCCGTCGTCAGAGAAACGTTTCGC

5015

SETX

SETX-201

530 535 540 545 550 555  
N S V Q L A Y V Q L I R S L L K E G Y Q L G Q Q S L C K R

ENSE00001802743

SETX-201

ATTCTGGGATAAGCTCAACTTATTTCTTCTAGGAAATTTATCTCTAGGTTGGCAGTTGACTAGTCAGGAAACCCATGAGCTACAA  
TAAGACCTTATTCGAGTTGAATAAGGAATCTCCTTTAAATAGAGATCCAACCGTCAACTGATCAGTCCTTTGGGTACTCGATGTT

5100

SETX

SETX-201

560 565 570 575 580 585  
F W D K L N L F L R G N L S L G W Q L T S Q E T H E L Q

ENSE00001802743

SETX-201

AGTTGCTTAAAGCAAATTATTAGAAACATAAAATTCAAAGCACCTCCATGTAACACTTTTGTGGATCTGACTTCTGCATGTA  
TCAACGAATTTTCGTTAATAATCTTTGTATTTAAGTTTCGTTGGAGGTACATTGTGAAAACACCTAGACTGAAGACGTACATTTT

5185

SETX

SETX-201

590 595 600 605 610  
S C L K Q I I R N I K F K A P P C N T F V D L T S A C K

ENSE00001802743

SETX-201

TCTCTCCTGCATCTTATAATAAAGAAGAAAGTGAACAAATGGGGAAGACGTCTAGAAAAGATATGCATTGTTTTGGAAGCTTCCAG  
AGAGAGGACGTAGAAATATTATTTCTTCTTTCACTTGTTTTACCCCTTCTGCAGATCTTTTCTATACGTAACAAACCTTCGAAGGTC

5270

SETX

SETX-201

I S P A S Y N K E E S E Q M G K T S R K D M H C L E A S S

ENSE00001802743

SETX-201

CCCAACATTTTCTAAAGAACCAATGAAAGTGCAAGACAGTGTATTGATCAAAGCAGATAACACTATAGAAGGTGACAATAATGAG  
GGGTTGTAAAAGATTTCTTGTTACTTTTCACGTTCTGTACATAACTAGTTTCGTCTATTGTGATATCTTCCACTGTTATTACTC

5355

SETX

SETX-201

P T F S K E P M K V Q D S V L I K A D N T I E G D N N E

ENSE00001802743

SETX-201

CAAAATTATATAAAGGATGTGAAACTAGAGGACCATCTCTTAGCTGGGTTCATGCTTAAAGCAGAGTAGTAAAAACATTTTTACTG  
GTTTTAATATATTTCTTACACTTTGATCTCCTGGTAGAGAATCGACCCAGTACGAATTTTCGTCTCATCTTTTGTAAAAATGAC

5440

SETX

SETX-201

Q N Y I K D V K L E D H L L A G S C L K Q S S K N I F T

ENSE00001802743

SETX-201

AAAGAGCTGAAGATCAAATTTAAATAAGTACAAGGAAGCAGAAGTCTGTAAAAGAGATCTCTTCATATACACCAAAGGACTGTAC  
TTTTCTCGACTTCTAGTTTAATTTTATTCATGTTTCCTTCGTCTTCAGACATTTTCTCTAGAGAAGTATATGTGGTTTCTGACATG

5525

SETX

SETX-201

E R A E D Q I K I S T R K Q K S V K E I S S Y T P K D C T

ENSE00001802743

SETX-201

TTCAAGAAATGGTCCAGAAAGGGGATGTGACAGAGGAATAATAGTATCAACACGTTTGTGACTGATTCTAGCACTGATGCTTTG  
AAGTTCTTTACCAGGTCTTTCCCTACACTGTCTCCTTATTATCATAGTTGTGCAACAACCTGACTAAGATCGTGACTACGAAAC

5610

SETX

SETX-201

S R N G P E R G C D R G I I V S T R L L T D S S T D A L

ENSE00001802743

SETX-201

GAAAAAGTGTCCACATCGAATGAAGATTTCTCTTTAAAGGATGATGCTCTTGCTAAAACCTCAAAACGAAAACTAAGGTACAGA  
CTTTTTACAGGTGTAGCTTACTTCTAAAGAGAAATTTCTACTACGAGAACGATTTTGGAGTTTTGCTTTTTGATTCCATGTCT

5695

SETX

SETX-201

E K V S T S N E D F S L K D D A L A K T S K R K T K V Q

ENSE00001802743

SETX-201

AAGATGAAATCTGTGCAAAAGTTATCACATGTAATAAAGAAGCAACACAGGAAGAGTACTTTGGTTCGATAATACTATCAATTTAGA  
TTCTACTTTAGACACGTTTTCAATAGTGTACATTATTTCTTCGTTGTGTCTTCTCATGAAACCAGCTATTATGATAGTTAAATCT

5780

SETX

SETX-201

785 790 795 800 805 810  
K D E I C A K L S H V I K K Q H R K S T L V D N T I N L D

ENSE00001802743

SETX-201

TGAAAATTTGACTGTATCTAACATTGAGAGTTTTCTATTCAAGGAAAGATACAGGAGTTTCAGAAAGGAGATGGTTTTACATACAAT  
ACTTTTAAACTGACATAGATTGTAACCTCTCAAAGATAAGTTCTTTCTATGTCTCAAGTCTTTCCTCTACCAAAGTATGTGTTA

5865

SETX

SETX-201

815 820 825 830 835 840  
E N L T V S N I E S F Y S R K D T G V Q K G D G F I H N

ENSE00001802743

SETX-201

CTTTCTTTAGACCCTAGTGGTGTCTGGATGATAAGAATGGAGAACAAAAATCTCAAAACAATGTATTGCCAAAAGAGAAACAAT  
GAAAGAAATCTGGGATCACCACAAGACCTACTATTCTTACCTCTTGTTTTAGAGTTTTGTTACATAACGGTTTTCTCTTTGTTA

5950

SETX

SETX-201

845 850 855 860 865  
L S L D P S G V L D D K N G E Q K S Q N N V L P K E K Q

ENSE00001802743

SETX-201

TAAAGAATGAAGAATTAGTTATTTTCTCTTTCCATGAAAACAATTGTAATAACAGGAATTTTCATGTTGATGGTAAAGAATTGAT  
ATTTCTTACTTCTTAATCAATAAAAGAGAAAGGTACTTTTGTAAACATTTTATGTCTTAAAGTACAACCTACCATTTCTTAACTA

6035

SETX

SETX-201

870 875 880 885 890 895  
L K N E E L V I F S F H E N N C K I Q E F H V D G K E L I

ENSE00001802743

SETX-201

CCCTTTTACAGAAATGACCAATGCTTCAGAGAAGAAATCATCTCCCTTTAAAGATCTTATGACTGTACCTGAATCAAGAGATGAG  
GGGAAAATGTCTTTACTGGTTACGAAGTCTCTTTAGTAGAGGGAAATTTCTAGAATACTGACATGGACTTAGTTCTCTACTC

6120

SETX

SETX-201

900 905 910 915 920 925  
P F T E M T N A S E K K S S P F K D L M T V P E S R D E

ENSE00001802743

SETX-201

GAGATGAGTAATAGTACCAGTGTGATTTATTCTAACTTGACAAGAGAACAGGCCCTGACATCAGTCCTAAATCTGACACCTTAA  
CTCTACTCATTATCATGGTCACTAAATAAGATTGAACTGTTCTCTTGTCCGGGGACTGTAGTCAGGATTTAGACTGTGGAATT

6205

SETX

SETX-201

930 935 940 945 950  
E M S N S T S V I Y S N L T R E Q A P D I S P K S D T L

ENSE00001802743

SETX-201

CGGATTCTCAGATAGACAGAGACCTTCACAAATTATCTTTACTAGCTCAAGCCAGTGTATTACGTTCCCATCCGATTACCTCA  
GCCTAAGAGTCTATCTGTCTCTGGAAGTGTTTAATAGAAATGATCGAGTTTCGGTCACAATAATGCAAGGGTAGGCTAAGTGGAGT

6290

SETX

SETX-201

955 960 965 970 975 980  
T D S Q I D R D L H K L S L L A Q A S V I T F P S D S P Q

ENSE00001802743

SETX-201

GAACTCATCGCAGCTGCAAAGGAAAAGTAAAAGAAGATAAAAGATGTTTCACAGCTAACCAAAAATAATGTTGGAGATACCTCCCCT  
CTTGAGTAGCGTCGACGTTTCTTTTCATTTTCTTCTATTTTCTACAAAGTGTCGATTGGTTTTATTACAACCTCTATGGAGGGCA

6375

SETX

SETX-201

985 990 995 1000 1005 1010  
N S S Q L Q R K V K E D K R C F T A N Q N N V G D T S R

ENSE00001802743

SETX-201

GGACAGGTTATTATTATTTTCAGATTCTGATGATGATGATGATGAAAGAATCCTGAGTCTTGAGAACTCACTAAACAGGACAAAA  
CCTGTCCAATAATAATAAAGTCTAAGACTACTACTACTACTTTCTTAGGACTCAGAACTCTTTGAGTGATTTGTCCTGTTTT

6460

SETX

SETX-201

1015 1020 1025 1030 1035  
G Q V I I I S D S D D D D D E R I L S L E K L T K Q D K

ENSE00001802743

SETX-201

TATGCCTTGAGAGGGGAACATCCAGAGCAGCACGTTTCAACAGTTAATAGTAAGGAGGAAAAGAATCCAGTAAAGGAAGAAAAGAC  
ATACGGAACCTCTCCCTTGTAGGTCTCGTCGTGCAAAGTTGTCAATTATCATTCTCTCTTTTCTTAGGTCATTTCTTTCTTTCTG

6545

SETX

SETX-201

1040 1045 1050 1055 1060 1065  
I C L E R E H P E Q H V S T V N S K E E K N P V K E E K T

ENSE00001802743

SETX-201

AGAGACTCTTTTTTCAGTTTGAGGAATCTGATTCTCAGTGTTTTGAGTTTGAAAGTTTCATCTGAAGTGTTTTTCAGTTTGGAAGAT  
TCTCTGAGAAAAAGTCAAACCTCCTTAGACTAAGAGTCACAAAACCTCAAACCTTCAAGTAGACTTCACAAAAGTCAAACCGTTCTA

6630

SETX

SETX-201

1070 1075 1080 1085 1090 1095  
E T L F Q F E E S D S Q C F E F E S S E V F S V W Q D

ENSE00001802743

SETX-201

CATCCAGACGATAATAATTTCAGTTCAAGATGGTGAGAAAAAATGTTTGGCTCCTATAGCCAATACTACAAATGGTCAGGGTTGTA  
GTAGGTCTGCTATTATTAAGTCAAGTTCTACCACTCTTTTTTACAAACCGAGGATATCGGTTATGATGTTTACCAGTCCCAACAT

6715

SETX

SETX-201

1100 1105 1110 1115 1120  
H P D D N N S V Q D G E K K C L A P I A N T T N G Q G C

ENSE00001802743

SETX-201

CAGATTATGTATCTGAAGTTGTTAAAAAAGGAGCAGAGGGCATTGAAGAACACACAAGACCACGGAGTATTTCTGTTGAAGAATT  
GTCTAATACATAGACTTCAACAATTTTTCTCTCGTCTCCCGTAACTTCTTGTGTGTTCTGGTGCCTCATAAAGACAACCTTCTTAA

6800

SETX

SETX-201

1125 1130 1135 1140 1145 1150  
T D Y V S E V V K K G A E G I E E H T R P R S I S V E E F

ENSE00001802743

SETX-201

TTGTGAAATTGAAGTAAAAAGCCTAAGAGAAAAACGATCTGAAAAACCAATGGCTGAAGATCCTGTGAGGCCTTCATCTTCTGTC  
AACACTTTAACTTCATTTTTTCGGATTCTCTTTTGCTAGACTTTTTGGTTACCGACTTCTAGGACACTCCGGAAGTAGAAGACAG

6885

SETX

SETX-201

1155 1160 1165 1170 1175 1180  
C E I E V K K P K R K R S E K P M A E D P V R P S S S V

ENSE00001802743

SETX-201

AGAAATGAGGGCCAGTCTGATACTAATAAGAGAGATCTTGTGGGAAATGATTTTAAAAGTATTGATAGAAGGACTTCAACTCCCA  
TCTTTACTCCCGGTCAGACTATGATTATTCTCTCTAGAACACCCTTTACTAAAATTTTCATAACTATCTTCTCTGAAGTTGAGGGT

6970

SETX

SETX-201

1185 1190 1195 1200 1205  
R N E G Q S D T N K R D L V G N D F K S I D R R T S T P

ENSE00001802743

SETX-201

ATTCACGTATTCAGAGAGCCACTACGGTTTCACAAAAGAAGTCTTCAAAGCTTTGTACTTGTACAGAACCCATCAGGAAAAGTTCC  
TAAGTGCATAAGTCTCTCGGTGATGCCAAAAGTGTTTTCTTCAGAAGTTTCGAAACATGAACATGTCTTGGGTAGTCTTTTCAAGG

7055

SETX

SETX-201

1210 1215 1220 1225 1230 1235  
N S R I Q R A T T V S Q K K S S K L C T C T E P I R K V P

ENSE00001802743

SETX-201

AGTTTCTAAGACCCCTAAGAAAACCTCATTAGATGCCAAAAAGGACAGAATAGAAGTTCAAATTACCTAAGTTGTAGAACAACCT  
TCAAAGATTCTGGGGATTCTTTTGAGTAAGTCTACGGTTTTTCTGTCTTATCTTCAAAGTTTAAATGGATTCAACATCTTGTGTTGA

7140

SETX

SETX-201

1240 1245 1250 1255 1260 1265  
V S K T P K K T H S D A K K G Q N R S S N Y L S C R T T

ENSE00001802743

SETX-201

CCTGCTATAGTGCCGCCAAAAGAAATTTGTCAGTGTCTCTGAGCCAACCTTCAACAGCTGAGAAAACCTTGGCCTGAAAAAGGGTCTCTC  
GGACGATATCACGGCGGTTTTCTTTAAAGCAGTACAGGACTCGGTTGAAGTTGTCTGACTCTTTGAACCGGACTTTTTCCAGGAG

7225

SETX

SETX-201

1270 1275 1280 1285 1290  
P A I V P P K K F R Q C P E P T S T A E K L G L K K G P

ENSE00001802743

SETX-201

GTAAGGCATATGAGTTGTCCCAGCGGTCTTTGGATTATGTAGCTCAATTACGTGATCATGGCAAACTGTTGGAGTAGTTGATAC  
CATTCCGTATACTCAACAGGGTTCGCCAGAAACCTAATACATCGAGTTAATGCACTAGTACC GTTTT GACAACCTCATCAACTATG

7310

SETX

SETX-201

R K A Y E L S Q R S L D Y V A Q L R D H G K T V G V V D T

ENSE00001802743

SETX-201

CCGAAAAAAGACTAAATTAATTTCTCCTCAGAACCTGTCTGTCTCAGAAATAATAAGAACTTCTGACTAGTCAAGAACTTCAGATG  
GGCTTTTTTCTGATTTAATTAAGAGGAGTCTTGGACAGACAGTCTTTATTATTCTTTGAAGACTGATCAGTTCTTGAAGTCTAC

7395

SETX

SETX-201

R K K T K L I S P Q N L S V R N N K K L L T S Q E L Q M

ENSE00001802743

SETX-201

CAAAGGCAGATCAGACCCAAATCACAAAAAATAGACGAAGACTTTCTGATTGTGAAAGTACAGATGTTAAAAGAGCAGGGTCAC  
GTTTCCGTCTAGTCTGGGTTTAGTGTTTTTTATCTGCTTCTGAAAGACTAACACTTTCATGTCTACAATTTTCTCGTCCCAGTG

7480

SETX

SETX-201

Q R Q I R P K S Q K N R R R L S D C E S T D V K R A G S

ENSE00001802743

SETX-201

ATACAGCACAGAATTCTGACATATTTGTACCAGAATCTGATAGGTCAGATTATAATTGTACAGGAGGAACTGAGGTACTTGCCAA  
TATGTCGTGTCTTAAGACTGTATAAACATGGTCTTAGACTATCCAGTCTAATATTAACATGTCTCCTTGACTCCATGAACGGTT

7565

SETX

SETX-201

H T A Q N S D I F V P E S D R S D Y N C T G G T E V L A N

ENSE00001802743

SETX-201

CAGTAACAGAAAACAGTTAATAAAAATGCATGCCTTCTGAACCAGAAACCATAAAAAGCAAAACATGGGTCTCCAGCAACTGATGAT  
GTCATTGTCTTTTGTCAATTATTTTACGTACGGAAGACTTGGTCTTTGGTATTTTCGTTTTGTACCCAGAGGTCGTTGACTACTA

7650

SETX

SETX-201

S N R K Q L I K C M P S E P E T I K A K H G S P A T D D

ENSE00001802743

SETX-201

GCTTGCCCTTTGAACCAGTGTGATTCTGTAGTGTAAATGGAACAGTACCAACAAATGAAGTAATTGTCTCCACTTCAGAAGACC  
CGAACGGGAAACTTGGTCACACTAAGACATCACAAATTTACCTTGTTCATGGTTGTTTACTTCATTAACAGAGGTGAAGTCTTCTGG

7735

SETX

SETX-201

A C P L N Q C D S V V L N G T V P T N E V I V S T S E D

ENSE00001802743

SETX-201

CTCTGGGTGGAGGTGATCCAACAGCACGTGATATAGAGATGGCAGCTTTGAAAAGAAGGAGAGCCTGACTCCAGCAGTGTATGCAGA  
GAGACCCACCTCCACTAGGTTGTCGTGCAGTATATCTCTACCGTCGAAACTTTCTTCTCTCGGACTGAGGTCGTCACTACGTCT

7820

SETX

SETX-201

1465 1470 1475 1480 1485 1490  
P L G G G D P T A R H I E M A A L K E G E P D S S S D A E

ENSE00001802743

SETX-201

GGAAGATAACTTATTTTTAACCCAAAATGATCCTGAAGATATGGATTATGTTTACAAAATGGAGAATGACAATTATAAACTCATT  
CCTTCTATTGAATAAAAATTTGGGTTTTACTAGGACTTCTATACCTAAATACAAGTGTTTACCTCTTACTGTTAATATTTGAGTAA

7905

SETX

SETX-201

1495 1500 1505 1510 1515 1520  
E D N L F L T Q N D P E D M D L C S Q M E N D N Y K L I

ENSE00001802743

SETX-201

GAACTAATTCATGGAAAAGATACAGTTGAGGTTGAAGAAGATTCTGTAAGTCGGCCTCAGTTGGAATCTTTGAGTGGCACAAAAGT  
CTTGATTAAGTACCTTTTCTATGTCAACTCCAACCTTCTTCTAAGACATTCAGCCGGAGTCAACCTTAGAAACTCACCGTGTTTCA

7990

SETX

SETX-201

1525 1530 1535 1540 1545  
E L I H G K D T V E V E E D S V S R P Q L E S L S G T K

ENSE00001802743

SETX-201

GTAAGTACAAAAGATTGTCTTGAAACCACAAAAAACAGGGTGAATACTGCCCAAAACACTCTGAAGTGAAAGCAGCAGATGAAGA  
CATTGATGTTTCTAACAGAACTTTGGTGTTTTTTGGTCCCACTTATGACGGGTTTTGTGAGACTTCACCTTCGTCGTCTACTTCT

8075

SETX

SETX-201

1550 1555 1560 1565 1570 1575  
C K Y K D C L E T T K N Q G E Y C P K H S E V K A A D E D

ENSE00001802743

SETX-201

TGTATTTTCGTAACCTGGCTTGCCTCCTCCTGCATCTAAACCTTTGAGACCTACCACTAAGATTTTTAGCTCAAAGAGTACTTCA  
ACATAAAGCATTGACCGAACGGAGGAGGACGTAGATTTGAAACTCTGGATGGTGATTCTAAAAATCGAGTTTCTCATGAAGT

8160

SETX

SETX-201

1580 1585 1590 1595 1600 1605  
V F R K P G L P P A S K P L R P T T K I F S S K S T S

ENSE00001802743

SETX-201

CGAATTGCTGGTCTTTCTAAATCTTTGGAAACTTCTTCAGCACTTTACCGTCTCTAAAAAATAAGTCAAAGGGGATACAGTTCGA  
GCTTAACGACCAGAAAAGATTTAGAAAACCTTTGAAGAAGTCGTGAAAGTGGCAGAGATTTTTTATTTCAGTTTCCCTATGTCAGCT

8245

SETX

SETX-201

1610 1615 1620 1625 1630  
R I A G L S K S L E T S S A L S P S L K N K S K G I Q S

ENSE00001802743

SETX-201



TTTTGAAAGTACCACAGCCAGTTCCCTCATAGCTCAGAAGCCAGTTGGTGAAATGAAGAATTCGTGCAATGTTCTTCATCCTCA  
AAAACCTTTCATGGTGTCCGGTCAAGGGGAGTATCGAGTCTTCGGTCAACCACTTTACTTCTTAAGCACGTTACAAGAAGTAGGAGT

8330

SETX

SETX-201

I L K V P Q P V P L I A Q K P V G E M K N S C N V L H P Q  
ENSE00001802743

SETX-201

GTCTCCGAATAATTC AACAGGCAAGGTTGCAAAGTTCCATTTGGTGAAAGCAAATATTTTCCATCTTCTCCTCCTCCAGTAAACATT  
CAGAGGCTTATTAAGGTTGTCCGTTCCAACGTTTCAAGGTAAACCACTTTTCGTTTATAAAAGGTAGAAGGAGAGGTCATTTGTAA

8415

SETX

SETX-201

S P N N S N R Q G C K V P F G E S K Y F P S S S P V N I  
ENSE00001802743

SETX-201

CTTTTGTTCATCACAGTCTGTCTCTGACACCTTCGTTAAAGAGGTCCTTAAATGGAAATATGAAATGTTTTTGAACCTTTGGTCAGT  
GAAAACAGTAGTGTGACAGAGACTGTGGAAGCAATTTCTCCAGAATTTTACCTTTATACTTTACAAAACTTGAAACCAGTCA

8500

SETX

SETX-201

L L S S Q S V S D T F V K E V L K W K Y E M F L N F G Q  
ENSE00001802743

SETX-201

GTGGGCCCCCTGCAAGTCTTTGTGTCAGTCCATCTCAAGACCTGTGCCTGTCAGATTTACAATTATGGAGATTATTTTAATGTTTT  
CACCCGGGGGACGTTTCAGAAACAGTCAGGTAGAGTTCTGGACACGGACAGTCTAAAGTGTTAATACCTCTAATAAAATTACAAAA

8585

SETX

SETX-201

C G P P A S L C Q S I S R P V P V R F H N Y G D Y F N V F  
ENSE00001802743

SETX-201

TTTCCCTTTGATGGTATTGAATACTTTTGAACAGTAAGTATGTGTTTCATTTGTATGCCTCTCCAAACTTTTTCAAGTTACCTCT  
AAAGGGAAACTACCATAACTTATGAAAACCTTTGTTCATTACATACACAAAGTAAACATACGGAGAGGTTTGAAAAGTTCAATGGAGA

8670

SETX

SETX-201

F P L M V L N T F E T V S M C F I C M P L Q T F Q V T S  
ENSE00001802743 (in frame with SETX-201)

SETX-201

TTACCTTGCTGAGTGAAAA 3'  
AATGGAACGACTCACTTTT 5'

8689

SETX

SETX-201

L P C

Feature	Location	Size	Color	Symbol	Type
✓ <b>SETX</b>	1 .. 8689	8689 bp	Grey	→	gene
/note	= gene <a href="#">ENSG00000107290</a> Protein coding				
✓ <b>SETX-201</b>	1 .. 8689	8689 bp	Yellow	→	prim_transcript
/note	= primary transcript <a href="#">ENST00000224140</a>				
✓ <b>SETX-201</b>	216 .. 8619	8404 bp	Red	→	CDS
▶ 4 segments = 4556 bp					
/codon_start	= 1				
/note	= coding sequence <a href="#">ENSP00000224140</a>				
/translation	= ICMLLTILEEQAMDSLLLGSQKQNDFMQSILHTMEREAD,,DDSVDPFWPALHCFMVILDRLGSKVWGQLMDPIVAFQTIINNASYNREIRHIRNS SVR,,TKLEPESYLDDMVTCISQIVYNYNPEKTKK,,DSGWRTAICPDYCPNMYEEMETLASVLQSDIGQDMRVHNSTFLWFIPFVQSLMDLKDGLV AYIAQVVNHLHYSEVKEVLNQTDVAVCDKVTEFFLLILVSVIELHRNKKCLHLLWSSQQWVEAVVKCAKLPTTAFTRSSEKSSGNCCKGTAMISSL SLHSMPSNSVQLAYVQLIRSLKKEGYQLGQQLSLCKRFWDKLNFLRGNLSLWQLTSQETHLQSLCKQIIRNIKFKAPPCNTFVLDLTSACKISPA SYNKEESEQMGKTSRKDMHCLEASSPTFSKEPMKVQDSVLIKADNTIEGDNNEQNYIKDVKLEDHLLAGSCLKQSSKNIFTERAEDQIKISTRKQ KSVKEISSYTPKDCTSRNGPERGCDRGIIVSTRLLTDSSTDALEKVSTSNEDFSLKDDALAKTSKRKTQVQKDEICAKLSHVIKKQHRKSTLV DNT INLDENLTVSNIESFYSRKDTGVQKGDGFIHNLSDPSGVLDKNGEQKSNVLPKEKQLKNEELVIFSFHENNCKIQEFHVDGKELIPFTEMTN ASEKSSPFKDLMTVPESRDEEMSNTSVIYSNLTREQAPDISPKSDTLTDSQIDRDLHKL SLLAQASVITFPDSDPQNSSQLQRKV KEDKRCFTA NQNNVGDTSRQGVIIISDSDDDDDERILSLEKLTQDKICLEREHPHQHVSTVNSKEEKNPVKEEKTETLQFEESDSQCFEFESSEVFSVWQD HPDDNNSVQDGEKKCLAPIANTTNGQGCTDYVSEVVKGAEGIEEHTRPRSISVEEFCEIEVKKPKRKRSEKPAEDPVRPSSSVRNEGQSDTN KRDLVGNDFKSIDRRTSTPNSRIQRATTVSQKKSSKLCCTEPIRKVPVSKTPKTHSDAKKGQNRSSYLSCRTTPAIVPPKFRQCPEPTSTAE KLGLKKGPRKAYELSQLSLDYVAQLRDHGKTGVVVDTRKKTKLISPNLSVRNKKLLTSQELQMQRQIRPKSQKNRRRLSDCESTDV KRA GSH TAQNSDIFVPESDRSDYNCTGGTEVLANSNRKQLIKCMPSEPETIKAKHGSPATDDACPLNQCDSSVVLNGTVPTNEVIVSTSEDPLGGGDPTAR HIEMAALKEGEPDSSSDAEEDNLFQNDPEDMDLCSQMENDNYKLIELIHGKDTVEVEEDSVSRPQLESLSGKCKYKDCLETTKNQGEYCPK HSEVKAADDEMERKPPAPSKPLRPTTKIFSSKSTSRIALGSKSLETSSALSPSLKNKSKGIQSILKVPQPVPLIAQKPVGEMKNSCNVLHPQS PNNRNROGCKVPFGESKYFPSSSPVNILLSSQSVSDTFVKEVLKWKYEMFLNFGQCGPPASLCQSSSRPVPVRFHNYGDYFNVFFPLMVLNTFET				
✓ <b>Donor Template WT -&gt; SNV</b>	4468 .. 4554	87 bp	Blue	⊢	misc_feature
✓ <b>SNV</b>	4511 .. 4511	1 bp	Yellow	⊢	misc_feature
/note	= WT = T SNV = C				
✓ <b>PAM</b>	4514 .. 4516	3 bp	Yellow	⊢	misc_feature
✓ <b>Protospacer Sequence</b>	4517 .. 4536	20 bp	Red	⊢	misc_feature
✓ <b>Silent SNV</b>	4518 .. 4518	1 bp	Green	⊢	misc_feature
/note	= WT = T SNV = C				

Primer	Length	Binding Sites	Tm	Date Added
✓ <b>PCR Reverse</b>	22-mer	4387 .. 4408	58°C	Jan 20, 2023
/sequence = TGAACCTGTCATAAGTGGTGCT 45% GC / 6765.5 Da				
✓ <b>Donor Template WT -&gt; SNV</b>	87-mer	4468 .. 4554	71°C	Jan 20, 2023
/sequence = AACACGCATGTCTTGACCAATATCTGACTGAAGTACGCTGGCTGATGTTTCCATTCTTCATACATGTTAGGACAATAATCTGGGCA 41% GC / 26,759.5 Da				
✓ <b>gRNA Protospacer</b>	20-mer	4517 .. 4536	49°C	Jan 20, 2023
/sequence = AATATCTGACTGAAGTACAC 35% GC / 6109.1 Da				
✓ <b>PCR Forward</b>	20-mer	4808 .. 4827	59°C	Jan 20, 2023
/sequence = CTTGGCACATTTGACGACGG 55% GC / 6133.0 Da				
✓ <b>Sanger Sequencing</b>	20-mer	4808 .. 4827	59°C	Jan 20, 2023
/sequence = CTTGGCACATTTGACGACGG 55% GC / 6133.0 Da				