

5'
3'

85

AGTATAGTATTATTTTCATCAATTCAAGATAACTCTAAATGATCTTACAGGTATTTGCATGTTGCTGACCATTCTTGAGGGAACAAG
TCATATCATAATAAAGTAGTTAAGTTCTATTGAGATTTACTAGAAATGTCATAAACGTACAACGACTGGTAAGAACTCCTTGTTTC

SETX >

SETX-201 >

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

ENSE00001709422 >

SETX-201

CCATGGATTCCCTGTTGTTGGGCTCAGACAAAACAAAATGATTTTATGCAATCGATACTTCACACTATGGAGAGGGAAGCAGATGG
GGTACCTAAGGGACAACAACCCGAGTCTGTTTGTCTTACTAAAATACGTTAGCTATGAAGTGTGATACCTCTCCCTTCGTCTACC

170

SETX >

SETX-201 >

A M D 255 S L L L G 260 S D K Q N 265 F M Q S 270 I L H T M 275 E R E A D

ENSE00001709422 >

SETX-201

TAATAAACTTTACTTGCTGAATGTTGTTGAATATAGTGATGATGACACTTTAAAAATGATAGTGTCACTGCAGGAATTGGTGT
ATTATTTGAAATGAACGACTTACAACAACCTTATATCACTACTACTACGTGAAATTTTTACTATCACAGTGACGTCCTTAACCACA

255

SETX >

SETX-201 >

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SETX-201

ATGTTGTGGAGAAAAGAATTTTTCTGGTTTAGTAATAGATTCAGACTTTTTATTTGTTTTGTTTTGTTTTGATACGAAGTCA
TACAACACCTCTTTTCTTAAAAAGACCAAATCATTATCTAAGTCTGAAAAATAAAACAAAACAAAACAAAACAAAACACTATGCTTCAGT

340

SETX >

SETX-201 >

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SETX-201

TACTCTTGTTGCCAGGCTGGAGTGCAATGGTGCGATGTCAGCTCACTGCAACCTCCACCTCCTGGGTTCAAGAAATTCCTGTT
ATGAGAACAACGGGTCCGACCTCACGTTACCACGCTACAGTCGAGTGACGTTGGAGGTGGAGGACCCAAGTTCTTTAAGGGGACA

425

SETX >

SETX-201 >

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SETX-201

CTCAGCCTCCCAAGTAGCTGGGACTACAGGCGTGCAACACCACGCCAGCTAATTTTTTTGATTTTTTAGTAGAGACGGGGTTTC
GAGTCGGAGGGTTTCATCGACCCTGATGTCCGCACGTGGTGGTGCGGGTCGATTAATAAAAAACATAAAAAATCATCTCTGCCCAAAG

510

SETX >

SETX-201 >

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SETX-201

ACCACGTTGGTCAGGCTGGTCTTGAACCTTTGATCTCAGGTGATCTGCCTGCCTTGGCCTCCCAAAGTGCTGGGATTACAGGCAT
TGGTGCAACAGTCCGACCAGAACTTGAGAAGTACTAGAGTCCACTAGACGGACGGAACCGGAGGGTTTCACGACCCTAATGTCCGTA

595

SETX >

SETX-201 >

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SETX-201

GAGACTTTTAAATCAGAAAAGGACCTTTATAATTTAATTCAATACCTTCCTTTTCATAGAAGAAGGGAAGTTAATCTACTTTTTTCAT
CTCTGAAAATTTAGTCTTTTCTGGAAATATTAATAATTAAGTTATGGAAGGAAAGTATCTTCTTCCCTTCAATTAGATGAAAAAGTA

680

SETX

SETX-201

SETX-201

GATGAAAAAGTTGGTGGTAGGATGAACATCAGAACCCTCTGGGAGACCCATTTGTAATGACATTGTGGTTAACATTGTGGGGTAAG
CTACTTTTTCAACCACCATCCTACTTGTAGTCTTGGAGACCCTCTGGGTAAACATTACTGTAACACCAATTGTAACACCCCATTC

765

SETX

SETX-201

SETX-201

CCTTCTCTGTCCCATGGCCTCCCTTTGCCTGCCTCTTTGTTTCTCTGTGGTTCTCTAATACAGTAACTGCCAGCCACATGTGATT
GGAAGAGACAGGGTACCGGAGGGAAACGGACGGAGAAACAAGAGACACCAAGAGATTATGTCATTGACGGTCGGTGTACACTAA

850

SETX

SETX-201

SETX-201

ATTAAAAATAAATTTAAGTCAATTAATAATAAAAAATGCAGTTATTTGGTCCCCTAGTCATATTTCAAGGCTCAATGGCCACACGT
TAATTTTATTTAAATTCAGTTAATTTTAAATTTTACGTCAATAAACAGGGTGATCAGTATAAAGTTCCGAGTTACCGGTGTGCA

935

SETX

SETX-201

SETX-201

GCCTGTA CTCTATCCTGTA CTGATTGAACAATGCAGAGACAGAAGATTTCCATCATCACAGAACATTCTCTTGGATATGCTGCT
CGGACATGAGATAGGACATGACATAACTTGTTACGTCTCTGTCTTCTAAAGGTAGTAGTGTCTTGTAAAGAGAACCTATACGACGA

1020

SETX

SETX-201

SETX-201

CCAGATAGTCTAGATAATGAGGCCTAAAACCTTGAGTCATGTTTATTATTAGATCCTGACCTCCTTTTGGCTGATGCTTGTATCAT
GGTCTATCAGATCTATTACTCCGGATTTTGAACATCAGTACAAATAATAATCTAGGACTGGAGGAAAACGACTACGAACATAGTA

1105

SETX

SETX-201

SETX-201

GCTAATCATGAAGGATCTGTAATTAATAAAGTGCTTCTAATCTTTAGGAAGTAATGAATTAATAAAGACCAAGTATACCAGATCC
CGATTAGTACTTCCCTAGACATTAATTTATTCACGAAGATTAGAAATCCTTCATTACTTAATTATTTCTGGTTCATATGGTCTAGG

1190

SETX

SETX-201

SETX-201

AATTCTGTCCTTTCTGTTAAGCTAGCTCCCTTAACCATCTTAAAAAAAAAAACAAACACCTTTTTTTTTTTTTTTTTCTTTTGAGACAG
TTAAGACAGGAAAAGACAATTCGATCGAGGGAATTGGTAGAATTTTTTTTTTGTGGGAAAAAAAAAAAAAAAAAGAAAACCTCTGTC

1870

SETX

SETX-201

SETX-201

GATCTCACTATCACCCACCCTGGAGTGGCTCAATCAGGTCTCACTGCAGCCTTAACCTCCCAGGCTCAAGTCATCCTCCTGCCTC
CTAGAGTGATAGTGGGTGGGACCTCACCGAGTTAGTCCAGAGTGACGTCGGAATTGGAGGGTCCGAGTTCAGTAGGAGGACGGAG

1955

SETX

SETX-201

SETX-201

TGACTCCCTAGTAACTGGGGCCACAGGCATGTGCCATCTTACCAGCTAATTTTTAAATTTTTGCTAGAGACAAAGTCTCACTAT
ACTGAGGGATCATTGACCCCGGTGTCCGTACACGGTAGAATGGGTCGATTAATAATTTAAAAACGATCTCTGTTTCAGAGTGATA

2040

SETX

SETX-201

SETX-201

GGGTGTAGGCTGGTCTTGAACCTCCTGACCTCAAGCAGTCCTCCTGCCTCGGCCTCCCAAAGTGTGGGATTTACTGGTGTGAGCC
CCCACATCCGACCAGAACTTGAGGACTGGAGTTCGTCAGGAGGACGGAGCCGGAGGGTTTCAACAACCTAAATGACCACACTCGG

2125

SETX

SETX-201

SETX-201

ACTGAACCCAGCCTTGTCTTCAAATTTTAATTACCTCTTTGAGAACTTTTCATAATTGTCTTCATCTAACTACTTTGTTTCTT
TGACTTGGGTCGGAACAGAAGTTTTAAATTAATGGAGAACTCTTTGAAAAGTATTAACAGAAGTAGATTGATGAAACAAAGAA

2210

SETX

SETX-201

SETX-201

GTGAGCTTATTAGACACAGGCACTGTTTCAGATGCAGTGGAGGATACAAACATATATAAGAAAAGTTCAAATGACTGTGGTAAAGT
CACTCGAATAATCTGTGTCCGTGACAAAAGTCTACGTACCTCCTATGTTTGTATATATTCTTTCAAGTTTACTGACACCATTTC

2295

SETX

SETX-201

SETX-201

CTGAGAAGTATGAGGGAAGTAAAGTCACAAGTTCTAGGATGACGTAGCAATAGCAGTGACTGCGTGAATTCAAGCACTTGCCTCA
GACTCTTCATACTCCCTTCATTTCAAGTGTTCAGATCCTACTGCATCGTTATCGTCACTGACGCACCTAAGTTCGTGAACGGAGT

2380

SETX

SETX-201

SETX-201

GAAGAGTACTGTAGATGACTGAAAGTGGGGGAATGTTTAATATAGGAGGAGGCATTTAAGCTGGACTTTTAAGGATGGATAGGATT
CTTCTCATGACATCTACTGACTTCACCCCTTACAAATTATATCCTCCTCCGTAAATTCGACCTGAAAAATTCCTACCTATCCTAA

2465

SETX

SETX-201

SETX-201

TTGATATGTTGTGCTAGAATTGAGGGCATTCTAGTGCTTATTTTGGAAAAAGCCAGTGATCTATTTGTGCTGTAGATAGTGTATG
AACTATACAACACGATCTTAACTCCCGTAAGATCACGAATAAAACCTTTTTTCGGTCACTAGATAAACACGACATCTATCACATAC

2550

SETX

SETX-201

SETX-201

ATTATAGGAATATGAAAAATAAAATGGAAATAAACAGTAGATCAATATCTTTTAAGTCTTGACTGAGGATTTTGAATTTTCTT
TAATATCCTTATACTTTTTATTTTTACCTTTATTTGTATCTAGTTATAGAAAATTCAGAAGTCACTAAACTTAAAAGAA

2635

SETX

SETX-201

SETX-201

GGAAGACATTAAGTATCCATTGAAGGTCTTTGAGTAGGGCGGTATCTTGCTACTGCATATTTGATAGAGAAGCAGGAGGTTGGAT
CCTTCTGTAATTCATAGGTAACCTCCAGAACTCATCCCGCCATAGAACGATGACGTATAAACTATCTCTTCGTCCTCCAACCTA

2720

SETX

SETX-201

SETX-201

GAAAAGTAGAGAACAGCAAAGCCATGTTGAGATACAGATGGATGAAGAGTGTATCTTTGCCTTATTCCTTAGCTAAAGAATTTAG
CTTTTCATCTCTTGTGCTTTTCGGTACAACCTCTATGTCTACCTACTTCTCACATAGAAACGGAATAAGGAATCGATTTCTTAAATC

2805

SETX

SETX-201

SETX-201

TCATTTACACTAGATGCGTGACACAAAATTCAGGATGATGCTGAAAGAGAATTTCTTGTATTATGGGCTTCATGTAGATCTGTAA
AGTAAATGTGATCTACGCACTGTGTTTTAAGTCCTACTACGACTTTCTCTTAAAGAACATAATACCCGAAGTACATCTAGACATT

2890

SETX

SETX-201

SETX-201

ATACCAAGTTTCTTTCTTTCTTTCTTTATTTTTTCTTCTTTCTGTTAGTTATTGGAGGATGGGACTACAAAGTTTTGGCAG
TATGGTTCAAAGAAAGAGAAAGGAAATAAAAAAGGAGAAGAAAAGACAATCAATAACCTCCTACCCTGATGTTTCAAACCGTC

2975

SETX

SETX-201

SETX-201

GGGTTGAGGAGCTGAATTAGAAAAGGTTGTTTCTGGTATGGCAAACAGGGTGTGAAAAGATTGTGCTTACCTAGACTGTTTTCTT
CCCAACTCCTCGACTTAATCTTTTCCAACAAAGACCATACCGTTTGTCCACACTTTTCTAACACGAATGGATCTGACAAAAGAA

3060

SETX

SETX-201

SETX-201

GCCCATTAAGTAATTTGTTTGCCACTAAATTTTTTTTTTTTTTTTACAGACGTATCATAGTATTGCTTGCAAAAAATCTTGAAAAT
CGGGTAATTCATTAACAAACGGTGATTTAAAAAAAAAAAAAAAAAATGTCTGCATAGTATCATAACGAACGTTTTTTAGAACTTTTA

3145

SETX

SETX-201

SETX-201

GTGGCTGCTTTTGAAACCCCTCTGTGTGTCTGAGGACTGGTGGCGGCACTGCTTTAAATTATTTGCTCCTTGGCTTTTAGTTGGGT
CACCGACGAAAACCTTTGGGAGACACACAGACTCCTGACCACCGCCGTGACGAAATTTAATAAACGAGGAACCGAAAATCAACCCA

3230

SETX

SETX-201

SETX-201

TGCTACTCACCAGATAAAGAATATGCTTAATTCTCAATATATTGTAGTATGTTTTTCTAACTGTTTAGTAATTC AACGATTGTGC
ACGATGAGTGGTCTATTTCTTATACGAATTAAGAGTTATATAACATCATACAAAAGATTGACAAATCATTAAAGTTGCTAACACG

3315

SETX

SETX-201

SETX-201

CATTGTATTT CAGATGATAGTGTGGATCCTTTCTGGCCAGCGTTACACTGTTTTATGGTGATTCTGGATCGCCTTGGATCTAAGG
GTAACATAAAGTCTACTATCACACCTAGGAAAGACCGGTGCAATGTGACAAAATACCACTAAGACCTAGCGGAACCTAGATTCC

3400

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 300

ENSE00001692297

SETX-201

TCTGGGGTCAACTTATGGATCCTATTGTGGCATTTC AAACCATTTATCAACAACGCAAGCTACAATAGAGAGATCCGACATATACG
AGACCCCAGTTGAATACCTAGGATAACACCGTAAAGTTTGGTAATAGTTGTTGCGTTCGATGTTATCTCTCTAGGCTGTATATGC

3485

SETX

SETX-201

305 V W 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 330

ENSE00001692297

SETX-201

GAACAGCTCTGTAAGGTTAGTT CAGCTAATGTCAGGATTTAAACATCATCTCTATAAGAAAGTGTGTTCCAGCTAGATTACTTAA
CTTGTCGAGACATTCCAATCAAGTCGATTACAGTCCTAAATTTGTAGTAGAGATATTCTTTACACAAGGTCGATCTAATGAATT

3570

SETX

SETX-201

335 N S S V R
ENSE00001692297

SETX-201

CAAGAGGTGTTTCTTCTTTTTTCCCCCTTCGTTTCAGTAATTTCTATTTATTCTTAATATTTAAGGACCAAGTTAGAACCGGA
GTTCTCCACAAAGAAGGAAAAAAGGGGGAAGCAAAGTCATTAAGATAAATAAGAATTATAAATTCCTGGTTCAATCTTGCCCT

3655

SETX

SETX-201

T K L E P E
340
ENSE00001668729

SETX-201

GTCCTATTTGGATGATATGGTGACTTGCAGCCAGATCGTATACAATTATAATCCTGAAAAGACCAAAAAGGTATAAAACACTTTG
CAGGATAAACCTACTATAACCACTGAACGTCGGTCTAGCATATGTTAATATTAGGACTTTTCTGGTTTTTCCATATTTTGTGAAAC

3740

SETX

SETX-201

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

SETX-201

AAAATTCAGATGCTATTTTATTGCCTTTATATTGTGTAGACTATTTTGTATAATTTGTTGAGTTGCAGATTTTGTGATATGTAGC
TTTTAAGTCTACGATAAAAATAACGGAAATATAACACATCTGATAAAACATATTAACAACCTCAACGTCTAAAACACTATACATCG

3825

SETX

SETX-201

SETX-201

TGTTCTCAATCTACTGCTATGTAAGCCCTTCTCATTGAACAGCAGATGTATTGTGTGTTGGGGAAGATGGACTCTAACTACAG
ACAAGAGTTAGATGACGATACATTTTCGGGAAGAGTAACTTGTCTGCTACATAACACACAACCCCTTCTACCTGAGATTGATGTC

3910

SETX

SETX-201

SETX-201

TATGCATACTTTGGAAAATTAACCTTATAAGTACATTTAGGGGAAGATGGAAAAGTTTATGGGGACATACATGGCATGACTAGAAAATC
ATACGTATGAAACCTTTTAATTGAATATTCATGTAAATCCCTTCTACCTTTCAAATACCCCTGTATGTACCGTACTGATCTTTAG

3995

SETX

SETX-201

SETX-201

AAAACCTAGCTAGTGGACAGAAGGTGAGAGTACATAAAGGTGTTACCAATTTGTCTTTTTATGAAAACCTCAAAATTCATTTTATAT
TTTTGATCGATCACCTGTCTTCCACTCTCATGTATTTCCACAATGGTTAAACAGAAAAATACTTTTGAGTTTTAAGTTAAATATA

4080

SETX

SETX-201

SETX-201

TTTCACTTTCTTGGGAGTTAGGTGTATTACGATTGTGATATAATTATATGCCACAATTATACCATTGTATAGCATAATAATGATG
AAAGTGAAAAGAACCCTCAATCCACATAATGCTAACACTATATTAATATACGGTGTAAATATGGTAACATATCGTATTACTACTAC

4165

SETX

SETX-201

SETX-201

PCR Reverse

TGAACCTGTCATAAGTGGTGCT

TGGTAAACCAAAAATAAGAGAGTTGAGAAACGTATTTTTCTTAACGACTTGGGTGTTGAACTGTCATAAGTGGTGCTTATTTATC
ACCATTTGGTTTTATTCTCTCAACTCTTTGCATAAAAAAGAATTGCTGAACCCACAACCTTGGACAGTATTCACCACGAATAAATAG

4250

SETX

SETX-201

SETX-201

Donor Template SNV -> REV

GAGAACAGCCATTTGCCAGATTATTGTCCTAACATGTATGAAGAAA

TGAACATCAGCATTCTTTTCAATTTTAGGATTCTGGATGGAGAACAGCCATTTGCCAGATTATTGTCCTAACATGTATGAAGAAA
ACTTGTAGTCGTAAAGAAAAGTAAAATCCTAAGACCTACCTCTTGTGCGTAAACGGGTCTAATAACAGGATTGTACATACTTCTTT

4335

SETX

SETX-201

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

SETX-201

Donor Template SNV -> REV

Donor Template SNV -> REV

TGGAAACATTAGCCAGTGTACTTCAGTCAGATATTGGTCAAGACATGCGTGTT

TGGAAACATTAGCCAGTGTACTTCAGTCAGATATTGGTCAAGACATGCGTGTTCCATAACAGCACATTTCTATGGTTTCATCCCTTT
ACCTTTGTAATCGGTCACATGAAGTCAGTCTATAACCAGTTCTGTACGCACAAGTATTGTCGTGTAAGATAACCAAGTAGGGAAA

4420

SETX

SETX-201

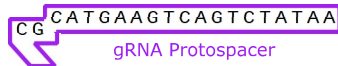
M E T L A S V L Q S D I G Q D M R V H N S T F L W F I P F
ENSE00001802743

SETX-201

Donor Template SNV -> REV



Silent SNV



TGTCCAGTCCCTCATGGATCTTAAGGATTTGGGTGTTGGCTTACATAGCACAGGTTGTTAATCATCTGTACTCTGAAGTCAAAGAA
ACAGGTCAGGGAGTACCTAGAATTCCTAAACCCACACCGAATGTATCGTGTCCAACAATTAGTAGACATGAGACTTCAGTTTCTT

4505

SETX

SETX-201

V 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
ENSE00001802743

SETX-201

GTCCTCAACCAACAGATGCTGTGTGTGACAAAGTCACTGAATTTTTCTTCTAATTTTGGTATCAGTGATTGAACTGCATAGAA
CAGGAGTTGGTTTGTCTACGACACACACTGTTTTCAGTGACTTAAAAAAGAAGATTAAACCATAGTCACTAACTTGACGTATCTT

4590

SETX

SETX-201

V 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
ENSE00001802743

SETX-201

ATAAAAAATGTTTGCATTTGCTGTGGGTAAGTTCCACGCAATGGGTGGAAGCCGTCGTCAAATGTGCCAAGCTTCCTACCACTGC
TATTTTTTACAAACGTAACGACACCCATTCAAGGGTCGTTACCCACCTTCGGCAGCAGTTTACACGGTTCGAAGGATGGTGACG

4675

SETX

SETX-201

N K K C L H L L W V S S Q Q W V E A V V K C A K L P T T A

ENSE00001802743

SETX-201

GGCAGCAGTTTACACGGTTC

PCR Forward

GGCAGCAGTTTACACGGTTC

Sanger Sequencing

GTTTACACGGAGTTCTGAGAAATCATCTGGAAATTGCTCCAAAGGAACAGCAATGATATCTTCACTGTCATTGCATTCCATGCCA
CAAATGTGCCTCAAGACTCTTTAGTAGACCTTTAACGAGGTTTCTTGTGCTTACTATAGAAGTGACAGTAACGTAAGGTACGGT

4760

SETX

SETX-201

F 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

ENSE00001802743

SETX-201

TCTAACTCTGTACAACCTTGCTTATGTGCAGCTGATTAGAAGTCTCCTTAAAGAAGGTTATCAGCTTGGGCAGCAGTCTCTTTGCA
AGATTGAGACATGTTGAACGAATACACGTCGACTAATCTTCAGAGGAATTTCTTCCAATAGTCGAACCCGTCGTCAGAGAAACGT

4845

SETX

SETX-201

S 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

ENSE00001802743

SETX-201

AGCGATTCTGGGATAAGCTCAACTTATTCCTTAGAGGAAATTTATCTCTAGGTTGGCAGTTGACTAGTCAGGAAACCCATGAGCT
TCGCTAAGACCCTATTTCGAGTTGAATAAGGAATCTCCTTTAAATAGAGATCCAACCGTCAACTGATCAGTCCTTTGGGTACTCGA

4930

SETX

SETX-201

K R 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

ENSE00001802743

SETX-201

ACAAAGTTGCTTAAAGCAAATTATTAGAAACATAAAATTCAAAGCACCTCCATGTAACACTTTTGTGGATCTGACTTCTGCATGT
TGTTTTCAACGAATTTTCGTTAATAATCTTTGTATTTAAGTTTCGTGGAGGTACATTGTGAAAACACCTAGACTGAAGACGTACA

5015

SETX

SETX-201

Q 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

ENSE00001802743

SETX-201

AAAATCTCTCCTGCATCTTATAATAAAGAAGAAAGTGAACAAATGGGGAAGACGTCCTAGAAAAGATATGCATTGTTTGGAAAGCTT
TTTTAGAGAGGACGTAGAATATTATTCTTCTTTCACTTGTTTACCCCTTCTGCAGATCTTTTCTATACGTAACAAACCTTCGAA

5100

SETX

SETX-201

K 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

ENSE00001802743

SETX-201

CCAGCCCAACATTTTCTAAAGAACCAATGAAAGTGCAAGACAGTGTATTGATCAAAGCAGATAACACTATAGAAGGTGACAATAA
GGTCGGGTTGTAAAAGATTTCTTGTTACTTTTCACGTTCTGTACATAACTAGTTTCGTCTATTGTGATATCTTCCACTGTTATT

5185

SETX

SETX-201

S S 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

ENSE00001802743

SETX-201

TGAGCAAAATTATATAAAGGATGTGAAACTAGAGGACCATCTCTTAGCTGGGTCATGCTTAAAGCAGAGTAGTAAAAACATTTTT
ACTCGTTTTAATATATTTTCTTACACTTTGATCTCCTGGTAGAGAATCGACCCAGTACGAATTTTCGTCTCATCATTTTTGTAAAAA

5270

SETX

SETX-201

E 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

ENSE00001802743

SETX-201

ACTGAAAGAGCTGAAGATCAAATTTAAATAAGTACAAGGAAGCAGAAGTCTGTAAAAGAGATCTCTTCATATACACCAAAGGACT
TGACTTTCTCGACTTCTAGTTTAATTTTATTCATGTTCCCTTCGTCTTCAGACATTTTCTCTAGAGAAGTATATGTGGTTTCTCTGA

5355

SETX

SETX-201

T 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

ENSE00001802743

SETX-201

GTACTTCAAGAAATGGTCCAGAAAGGGGATGTGACAGAGGAATAATAGTATCAACACGTTTGTGACTGATTCTAGCACTGATGC
CATGAAGTTCTTTACCAGGTCTTTCCCTTACACTGTCTCCTTATTATCATAGTTGTGCAAACTGACTAAGATCGTGACTACG

5440

SETX

SETX-201

C T 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

ENSE00001802743

SETX-201

TTTGGAAAAAGTGTCACATCGAATGAAGATTTCTCTTTAAAGGATGATGCTCTTGCTAAAACCTCAAAACGAAAACTAAGGTA
AAACCTTTTTTACAGGTGTAGCTTACTTCTAAAGAGAAATTTCTTACTACGAGAACGATTTTGGAGTTTTGCTTTTTGATTCCAT

5525

SETX

SETX-201

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

ENSE00001802743

SETX-201

CAGAAAGATGAAATCTGTGCAAAGTTATCACATGTAATAAAGAAGCAACACAGGAAGAGTACTTTGGTCGATAAATACTATCAATT
GTCTTTCTACTTTAGACACGTTTCAATAGTGTACATTATTTCTTCGTTGTGTCCTTCTCATGAAACCAGCTATTATGATAGTTAA

5610

SETX

SETX-201

Q 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

ENSE00001802743

SETX-201

TAGATGAAAATTTGACTGTATCTAACATTGAGAGTTTCTATTCAAGGAAAGATACAGGAGTTTCAGAAAAGGAGATGGTTTTCATACA
ATCTACTTTTAAACTGACATAGATTGTAACCTCTCAAAGATAAGTTCCTTTCTATGTCCTCAAGTCTTTCTCTACCAAAGTATGT

5695

SETX

SETX-201

L D 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

ENSE00001802743

SETX-201

CAATCTTTCTTTAGACCCTAGTGGTGTCTGGATGATAAGAATGGAGAACAAAAATCTCAAAAACAAATGTATTGCCAAAAGAGAAA
GTTAGAAAAGAAATCTGGGATCACCACAAGACCTACTATTCTTACCTCTTGTTTTTAGAGTTTTGTTACATAACGGTTTTCTCTTT

5780

SETX

SETX-201

N 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

ENSE00001802743

SETX-201

CAATTAAGAATGAAGAATTAGTTATTTTTCTCTTTCCATGAAAACAATTGTAAAATACAGGAATTTTCATGTTGATGGTAAAGAAT
GTTAATTTCTTACTTCTTAATCAATAAAAAGAGAAAAGGTACTTTTGTTAACATTTTATGTCCTTAAAGTACAACCTACCATTTCTTA

5865

SETX

SETX-201

Q 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

ENSE00001802743

SETX-201

TGATCCCTTTTACAGAAATGACCAATGCTTCAGAGAAGAAATCATCTCCCTTTAAAGATCTTATGACTGTACCTGAATCAAGAGA
ACTAGGGAAAATGTCTTTACTGGTTACGAAGTCTCTTCTTTAGTAGAGGGAAAATTTCTAGAATACTGACATGGACTTAGTTCTCT

5950

SETX

SETX-201

L I 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

ENSE00001802743

SETX-201

TGAGGAGATGAGTAATAGTACCAGTGTGATTTATTCTAACTTGACAAGAGAACAGGCCCTGACATCAGTCCTAAATCTGACACC
ACTCCTCTACTCATTATCATGGTACACTAAATAAGATTGAACTGTTCTTGTCCGGGGACTGTAGTCAGGATTTAGACTGTGG

6035

SETX

SETX-201

E 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

ENSE00001802743

SETX-201

TTAACGGATTCTCAGATAGACAGAGACCTTCACAAATTATCTTTACTAGCTCAAGCCAGTGTTATTACGTTCCCATCCGATTAC
AATTGCCTAAGAGTCTATCTGTCTCTGGAAGTGTTAATAGAAATGATCGAGTTCGGTCACAATAATGCAAGGGTAGGCTAAGTG

6120

SETX

SETX-201

L 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

ENSE00001802743

SETX-201

CTCAGAACTCATCGCAGCTGCAAAGGAAAAGTAAAAGAAGATAAAAAGATGTTTCACAGCTAACCAAAAATAATGTTGGAGATACCTC
GAGTCTTGAGTAGCGTCGACGTTTCCTTTTCATTTTCTTTCTATTCTTCTACAAAAGTGTCGATTGGTTTTATTACAACCTCTATGGAG

6205

SETX

SETX-201

P Q 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
ENSE00001802743

SETX-201

CCGTGGACAGGTTATTATTATTTTCAGATTCTGATGATGATGATGATGAAAGAATCCTGAGTCTTGAGAACTCACTAAACAGGAC
GGCACCTGTCCAATAATAATAAAGTCTAAGACTACTACTACTACTTTCTTAGGACTCAGAACTCTTTGAGTGATTTGTCTCTG

6290

SETX

SETX-201

R G Q V I I S D S D D D D E R I L S L E K L T K Q D
ENSE00001802743

SETX-201

AAAATATGCCTTGAGAGGGAACATCCAGAGCAGCACGTTTCAACAGTTAATAGTAAGGAGGAAAAGAATCCAGTAAAGGAAGAAA
TTTTATACGGAACCTCCCTTGTAGGTCTCGTCGTGCAAAGTTGTCAATTATCATTCCCTCTTTCTTAGGTCATTTCTTTCTTT

6375

SETX

SETX-201

K 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
ENSE00001802743

SETX-201

AGACAGAGACTCTTTTTTCAGTTTGAGGAATCTGATTCTCAGTGTTTTGAGTTTGAAAGTTCATCTGAAGTGTTTTTCAGTTTGGCA
TCTGTCTCTGAGAAAAAGTCAAACCTCCTTAGACTAAGAGTCACAAAACCTCAAACCTTCAAGTAGACTTCACAAAAGTCAAACCGT

6460

SETX

SETX-201

K T E T L F Q F E E S D S Q C F E F E S S S E V F S V W Q
ENSE00001802743

SETX-201

AGATCATCCAGACGATAATAATTCAGTTCAAGATGGTGAGAAAAAATGTTTGGCTCCTATAGCCAATACTACAAATGGTCAGGGT
TCTAGTAGGTCTGCTATTATTAAGTCAAGTTCTACCACTCTTTTTTACAAAACCGAGGATATCGGTTATGATGTTTACCAGTCCCA

6545

SETX

SETX-201

D 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
ENSE00001802743

SETX-201

TGTACAGATTATGTATCTGAAGTTGTTAAAAAAGGAGCAGAGGGCATTGAAGAACACACAAGACCACGGAGTATTTCTGTTGAAG
ACATGTCTAATACATAGACTTCAACAATTTTTCTCGTCTCCCGTAACTTCTTGTGTGTTCTGGTGCCTCATAAAGACAACCTTC

6630

SETX

SETX-201

C 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
ENSE00001802743

SETX-201

AATTTTGTGAAATTGAAGTAAAAAAGCCTAAGAGAAAAACGATCTGAAAAACCAATGGCTGAAGATCCTGTGAGGCCTTCATCTTC
TTAAAAACACTTTAACTTTCATTTTTTTCGGATTCTCTTTTGGTACCGACTTCTAGGACACTCCGGAAGTAGAAG

6715

SETX

SETX-201

E F 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

ENSE00001802743

SETX-201

TGTCAGAAATGAGGGCCAGTCTGATACTAATAAGAGAGATCTTGTGGGAAATGATTTTAAAAGTATTGATAGAAGGACTTCAACT
ACAGTCTTTACTCCCAGTATGATTATTCTCTCTAGAACACCCCTTTACTAAAATTTTCATAACTATCTTCTGAAAGTTGA

6800

SETX

SETX-201

V 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

ENSE00001802743

SETX-201

CCCAATTCACGTATTCAGAGAGCCACTACGGTTTCACAAAAGAAGTCTTCAAAGCTTTGTACTTGTACAGAACCCATCAGGAAAG
GGGTTAAGTGCATAAGTCTCTCGGTGATGCCAAAGTGTCTTTCAGAAAGTTTCGAAACATGAACATGTCTTGGGTAGTCCCTTTC

6885

SETX

SETX-201

P 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

ENSE00001802743

SETX-201

TTCCAGTTTCTAAGACCCCTAAGAAAACTCATTTCAGATGCCAAAAAGGACAGAATAGAAGTTCAAATTACCTAAGTTGTAGAAC
AAGGTCAAAGATTCTGGGGATTCTTTTGAAGTCTACGGTTTTTCTGTCTTATCTTCAAAGTTTAAATGGATTCAACATCTTG

6970

SETX

SETX-201

V P 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

ENSE00001802743

SETX-201

AACTCCTGCTATAGTGCCGCCAAAGAAATTTGTCAGTGTCTGAGCCAACTTCAACAGCTGAGAAACTTGGCCTGAAAAAGGGT
TTGAGGACGATATCACGGCGGTTTCTTTAAAGCAGTACAGGACTCGGTTGAAGTTGTCGACTCTTTGAACCGGACTTTTTCCCA

7055

SETX

SETX-201

T 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

ENSE00001802743

SETX-201

CCTCGTAAGGCATATGAGTTGTCCCAGCGGCTTTGGATTATGTAGCTCAATTACGTGATCATGGCAAACTGTTGGAGTAGTTG
GGAGCATTCCGTATACTCAACAGGGTCGCCAGAAACCTAATACATCGAGTTAATGCACTAGTACCGTTTTGACAACCTCATCAAC

7140

SETX

SETX-201

P 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

ENSE00001802743

SETX-201

ATACCCGAAAAAGACTAAATTAATTTCTCCTCAGAACCTGTCTGTGTCAGAAATAATAAGAACTTCTGACTAGTCAAGAAGCTTCA
TATGGGCTTTTTTCTGATTTAATTAAGAGGAGTCTTGGACAGACAGTCTTTATTATTCTTTGAAGACTGATCAGTTCTTGAAGT

7225

SETX

SETX-201

D T 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

ENSE00001802743

SETX-201

GATGCAAAGGCAGATCAGACCCAAATCACAAAAAATAGACGAAGACTTTCTGATTGTGAAAGTACAGATGTTAAAGAGCAGGG
CTACGTTTCCGTCTAGTCTGGGTTTAGTGTTTTTATCTGCTTCTGAAAGACTAACACTTTCATGTCTACAATTTTCTCGTCCC

7310

SETX

SETX-201

M 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

ENSE00001802743

SETX-201

TCACATACAGCACAGAATTCTGACATATTTGTACCAGAATCTGATAGGTCAGATTATAATTGTACAGGAGGAAGTACTGAGGTA
AGTGTATGTCGTGCTTAAGACTGTATAAACATGGTCTTAGACTATCCAGTCTAATATTAACATGTCCTCCTTGACTCCATGAAC

7395

SETX

SETX-201

S 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

ENSE00001802743

SETX-201

CCAACAGTAACAGAAAAACAGTTAATAAAAATGCATGCCTTCTGAACCAGAAACCATAAAAAGCAAAACATGGGTCTCCAGCAACTGA
GGTTGTCATTGTCTTTTTGTCAATTATTTTACGTACGGAAGACTTGGTCTTTGGTATTTTCGTTTTGTACCCAGAGGTGCGTTGACT

7480

SETX

SETX-201

A N 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

ENSE00001802743

SETX-201

TGATGCTTGCCCTTTGAACCAGTGTGATTCTGTAGTGTTAAATGGAACAGTACCAACAAATGAAGTAATTGTCTCCACTTCAGAA
ACTACGAACGGGAAACTTGGTCACACTAAGACATCACAATTTACCTTGTTCATGGTTGTTTACTTCATTAACAGAGGTGAAGTCTT

7565

SETX

SETX-201

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

ENSE00001802743

SETX-201

GACCCCTCTGGGTGGAGGTGATCCAACAGCACGTCATATAGAGATGGCAGCTTTGAAAGAAGGAGAGCCTGACTCCAGCAGTGATG
CTGGGAGACCCACCTCCACTAGGTTGTCGTGCAGTATATCTCTACCGTCGAAACTTTCTTCTCCTCTCGGACTGAGGTGCGTCACTAC

7650

SETX

SETX-201

D 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

ENSE00001802743

SETX-201

CAGAGGAAGATAACTTATTTTTAACCCAAAATGATCCTGAAGATATGGATTTATGTTCCACAAATGGAGAATGACAATTATAAACT
GTCTCCTTCTATTGAATAAAAAATTGGGTTTTACTAGGACTTCTATACCTAAATACAAGTGTTTACCTCTTACTGTTAATATTTGA

7735

SETX

SETX-201

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

ENSE00001802743

SETX-201

CATTGAACTAATTCATGGAAAAGATACAGTTGAGGTTGAAGAAGATTCTGTAAGTCGGCCTCAGTTGGAATCTTTGAGTGGCACA
GTAAC TTGATTAAGTACCTTTTCTATGTCAACTCCAACCTTCTTCTAAGACATTCAGCCGGAGTCAACCTTAGAAACTCACCGTGT

7820

SETX

SETX-201

1520 1525 1530 1535 1540 1545
I E L I H G K D T V E E D S V S R P Q L E S L S G T

ENSE00001802743

SETX-201

AAGTGTAAGTACAAAGATTGTCTTGAAACCACAAAAACCAGGGTGAATACTGCCCAAAACACTCTGAAGTGAAAGCAGCAGATG
TTCACATTCATGTTTCTAACAGA AACTTTGGTGTTTTTTGGTCCCACCTTATGACGGGTTTTGTGAGACTTCACTTTTCGTCGTCTAC

7905

SETX

SETX-201

1550 1555 1560 1565 1570 1575
K 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

ENSE00001802743

SETX-201

AAGATGTATTTTCGTAAACCTGGCTTGCCTCCTCCTGCATCTAAACCTTTGAGACCTACCACTAAGATTTTTAGCTCAAAGAGTAC
TTCTACATAAAGCATT TGGACCGAACGGAGGAGGACGTAGATTTGAAACTCTGGATGGTGATTCTAAAAATCGAGTTTCTCATG

7990

SETX

SETX-201

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

ENSE00001802743

SETX-201

TTCACGAATTGCTGGTCTTTCTAAATCTTTGAAACTTCTTCAGCACTTTCCACCGTCTCTAAAAAATAAGTCAAAGGGGATACAG
AAGTGCTTAACGACCAGAAAGATTTAGAAACCTTTGAAGAAGTCGTGAAAGTGGCAGAGATTTTTTATTTCAGTTTCCCTATGTC

8075

SETX

SETX-201

1605 1610 1615 1620 1625 1630
S R I A G L S K S L E T S S A L S P S L K N S K G I Q

ENSE00001802743

SETX-201

TCGATTTTGAAAGTACCACAGCCAGTTCCCTCATAGCTCAGAAGCCAGTTGGTGAAATGAAGAATTCGTGCAATGTTCTTCATC
AGCTAAAAC TTTTCATGGTGTCGGTCAAGGGGAGTATCGAGTCTTCGGTCAACCACTTTACTTCTTAAGCACGTTACAAGAAGTAG

8160

SETX

SETX-201

1635 1640 1645 1650 1655 1660
S 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

ENSE00001802743

SETX-201

CTCAGTCTCCGAATAATTCCAACAGGCAAGGTTGCAAAGTTCCATTTGGTGAAAGCAAATATTTTCCATCTTCTCCTCTCCAGTAAA
GAGTCAGAGGCTTATTAAGGTTGTCCGTTCCAACGTTTCAAGGTAAACCACTTTTCGTTTATAAAAAGGTAGAAGGAGAGGTCATTT

8245

SETX

SETX-201

1665 1670 1675 1680 1685
P Q 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

ENSE00001802743

SETX-201

CATTCTTTTGTCAATCACAGTCTGTCTCTGACACCTTCGTTAAAGAGGTCCTTAAATGGAAATATGAAATGTTTTTGAACCTTTGGT
GTAAGAAAACAGTAGTGTGTCAGACAGAGACTGTGGAAGCAATTTCTCCAGAATTTTACCTTTATACTTTACAAAACTTGAAACCA

8330

SETX

SETX-201

1690 1695 1700 1705 1710 1715
I 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

ENSE00001802743

SETX-201

CAGTGTGGGCCCCCTGCAAGTCTTTGTCAAGTCCATCTCAAGACCTGTGCCTGTCAGATTTTACAATTATGGAGATTATTTTAATG
GTCACACCCGGGGGACGTTTCAGAAAACAGTCAGGTAGAGTTCTGGACACGGACAGTCTAAAGTGTTAATACCTCTAATAAAATTAC

8415

SETX

SETX-201

1720 1725 1730 1735 1740 1745
Q 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

ENSE00001802743

SETX-201

TTTTTTTCCCTTTGATGGTATTGAATACTTTTGAACAGTAAGTATGTGTTTCATTTGTATGCCTCTCCAAACTTTTCAAGTTAC
AAAAAAGGGAAACTACCATAACTTATGAAAACCTTTGTCAATTCATACACAAAGTAAACATACGGAGAGGTTTGAAAAGTTCAATG

8500

SETX

SETX-201

1750 1755
V F 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

ENSE00001802743

SETX-201

(in frame with SETX-201)

CTCTTTACCTTGCTGAGTGAAAATGAGAGTATAGTTCAAAAAATCAGCCAGGCGTGGTTGCGGGCACCTGTAATC
GAGAAATGGAACGACTCACTTTTACTCTCATATCAAGTTTTTTAGTCGGTCCGCACCAACGCCCGTGGACATTAG

3'

8575

5'

SETX

SETX-201

S L P C

Feature	Location	Size	Color	Symbol	Type
✓ SETX	1 .. 8575	8575 bp		→	gene
/note	= gene ENSG00000107290 Protein coding				
✓ SETX-201	1 .. 8575	8575 bp		→	prim_transcript
/note	= primary transcript ENST00000224140				
✓ SETX-201	50 .. 8453	8404 bp		→	CDS
▶ 4 segments	= 4556 bp				
/codon_start	= 1				
/note	= coding sequence ENSP00000224140				
/translation	= ICMLLTILEEQAMDSLLLGSQKQNDFMQSILHTMEREAD,,DDSDVPFPAALHCFMVILDRLGSKVWGQLMDPIVAFQTIINNASYNREIRHIRNS SVR,,TKLEPESYLDDMVTCISQIVYNYNPEKTKK,,DSGWRTAICPDYCPNMYEEMETLASVLQSDIGQDMRVHNSTFLWFIPFVQSLMDLKDGLV AYIAQVVNHLHYSEVKEVLNQTDVAVCDKVTEFFLLILVSVIELHRNKKCLHLLWSSQQWVEAVVKCAKLPTTAFTRSSEKSSGNCCKGTAMISSL SLHSMPSNSVQLAYVQLIRSLKKEGYQLGQQSLCKRFWDKLNFLRGNLSLWQLTSQETHLQSLCKQIIRNIKFKAPPCNTFVLDLTSACKISPA SYNKEESEQMGKTSRKDMHCLEASSPTFSKEPMKVQDSVLIKADNTIEGDNNEQNYIKDVKLEDHLLAGSCLKQSSKNIFTERAEDQIKISTRKQ KSVKEISSYTPKDCTSRNGPERGCDRGIIVSTRLLTDSSTDALEKVSTSNEDFSLKDDALAKTSKRKTQVQKDEICAKLSHVIKKQHRKSTLV DNT INLDENLTVSNIESFYSRKDTGVQKGDGFIHNLSDPSGVLDKNGEQKSQNNVLPKEKQLKNEELVIFSFHENNCKIQEFHVDGKELIPFTEMTN ASEKSSPFKDLMTVPESRDEEMSNTSVIYSNLTREQAPDISPKSDTLTDSQIDRDLHKL SLLAQASVITFPDSDPQNSSQLQRKV KEDKRCFTA NQNNVGDTSRQGVIIISDSDDDDDERILSLEKLTQDKICLEREHPHQVSTVNSKEEKNPVKEEKTETLQFEESDSQCFEFESSEVFSVWQD HPDDNNSVQDGEKKCLAPIANTTNGQGCTDYVSEVVKGAEGIEEHTRPRSISVEEFCEIEVKKPKRKRSEKPAEDPVRPSSSVRNEGQSDTN KRDLVGNDFKSIDRRTSTPNSRIQRATTVSQKKSSKLTCTEPIRKVPVSKTPKTHSDAKKGQNRSSYLSCRTTPAIVPPKFRQCPEPTSTAE KLGLKKGPRKAYELSQLSLDYVAQLRDHGKTGVVDTRKKTKLISPNLSVRNKKLLTSQELQMQRQIRPKSQKNRRRLSDCESTDV KKRAGSH TAQNSDIFVPESDRSDYNCTGGTEVLANSNRKQLIKCMPSEPETIKAKHGSPATDDACPLNQCDSSVVLNGTVPTNEVIVSTSEDPLGGGDPTAR HIEMAALKEGEPDSSSDAEEDNLFQNDPEDMDLCSQMENDNYKLIELIHGKDTVEVEEDSVSRPQLESLSGKCKYKDCLETTKNQGEYCPK HSEVKAADDEMERKPPAPASKPLRPTTKIFSSKSTSRIALGSKSLETSSALSPSLKNKSKGIQSIKVPQPVPLIAQKPVGEMKNSCNVLHPQS PNNSNRQGGCKVPFGESKYFPSSSPVNILLSSQSVSDTFVKEVLKWKYEMFLNFGQCGPPASLCQSSSRPVPVRFHNYGDYFNVFFPLMVLNTFET				
✓ Donor Template SNV -> REV	4289 .. 4388	100 bp		⊢	misc_feature
✓ SNV	4345 .. 4345	1 bp		⊢	misc_feature
/note	= REV = T SNV = C				
✓ PAM	4348 .. 4350	3 bp		⊢	misc_feature
✓ Protospacer Sequence	4351 .. 4370	20 bp		⊢	misc_feature
✓ Silent SNV	4352 .. 4352	1 bp		⊢	misc_feature
/note	= REV = T SNV = C				

Primer	Length	Binding Sites	Tm	Date Added
✓ PCR Reverse /sequence = TGAACCTGTCATAAGTGGTGCT 45% GC / 6765.5 Da	22-mer	4221 .. 4242	58°C	Jan 20, 2023
✓ Donor Template SNV -> REV /sequence = GAGAACAGCCATTTGCCAGATTATTGTCCTAACATGTATGAAGAAATGGAAACATTAGCCAGTGTACTTCAGTCAGATATTGGTCAAGAC ATCCGCTT 100-mer	100-mer	4289 .. 4388	73°C	Jan 20, 2023
✓ gRNA Protospacer /sequence = AATATCTGACTGAAGTACGC 40% GC / 6125.1 Da	20-mer	4353 .. 4370	45°C	Jan 20, 2023
✓ PCR Forward /sequence = CTTGGCACATTTGACGACGG 55% GC / 6133.0 Da	20-mer	4642 .. 4661	59°C	Jan 20, 2023
✓ Sanger Sequencing /sequence = CTTGGCACATTTGACGACGG 55% GC / 6133.0 Da	20-mer	4642 .. 4661	59°C	Jan 20, 2023