

S5: 27 sequences with no BLASTx hits and No IPS match

NW_019168470.1:14263236-14264484

Type: -----

Type: exon

gene_id: XLOC_039789

transcript_id: TCONS_00085194

exon_number: 1

oId: CUFF.9278.1

class_code: u

tss_id: TSS46325

CAATTACAAACAGAGCCGGTACCACGCGACCCACACCAGCAGCAATTCAACAGGGCAAAGATCAAAGCCTTAATAAGCCACTATCAAGCA
ATTCAGTGGGAAGCAAGCAAGGAGGCAGAGAGCAATCGGCATTGAAACAGAGTTAGCACACACAACTTCAAGCAAACACTGATCAGAG
AAAGCAGAATTCAGCCAAGGGCAATAATCATCAAAGAGCAATTCATAAGACGGAAAGTCCTGAATTACCCATCAGAAACCACCAAACAAG
AACTCAACCAATCAACCCAGAAACACCATCAACCTCAAACCCACAGACCCCAAAAGTCATCAATTAGAAATCACCAGAACCATACT
AGAACCAAACCCATCCACAAATCAAGCAGTCATCACACAACAGAAACATCAAACAATCACAACAGCAAAATTGAGAACACATTAGCAAA
GGTCTTTTTGGGGAGTTTCTAGGTTTTAAGTCAACAATAGAAAAGGGAGGAAGAAGGTCGGCAGAGGTCGAGTGACGGTAAGCTCGTCGA
GTTCTGGGCTGCATAATGGCCAGccaattttgggattttgattcTGAGGCTAGTGGAAGAAATTTAAAGTATACACGGACAACAAAAGGGGAAAGCTG
GGTTTTGGTCAcgttcctgaattttttggggtttgattcAAACATGTGTAAATTTAGAGGAAGGACGAAACCCTCTAAAGAATTTTCTGGGCAATTTTCCAAG
CAGTTTAGTGGTGCATTTGGAGACAAATCATTAAGGGATATTGGGTTTTTGTGGGTTTCGGGCAAGGCAGGAAAGAAAAGGAGGAGAAC
CGGAAGGGTGCATTTGGAGTCTCCAACGTACAGCGAACAATGGTGGTCCCTGGTGGCAGCGATGATGGCGCAAGGTGGCAGCAAGCTA
CCTGGACTTGGGATTGGGTGTTACGGTTGAAAGCTTTGAAGAACTAAGAAAGTTTGAGAAATAACAGAGAAAGCTGAAGAAGAAAAGga
gaacaaaagaaaattttctcggTTGAAAGTCAAATGCTACCGTTTTGGTAGCTAATGAGAGACGTTGATCCAGAACCAACACCCACGCAGGTATTCAC
CTCAAACCTGACCCATCTTGCAATTCcaggtttattattattattctctgtttatttttgttaattattcgCCTTAGGTTAATTTAAAtcgaagaaaagaaaactttgatagattttta
tga

NW_019168470.1:14254782-14255906

Type: -----

Type: exon

gene_id: XLOC_039788

transcript_id: TCONS_00085193
exon_number: 1
oId: CUFF.9277.1
class_code: u
tss_id: TSS46324

AATAAGCCATAATCAAGCAATTCACCAGGGATAAAATCAAGGTGGTAGAGAGCAATCAGCATTGAAACAGAGTTAGCACACACAACCTTCA
ATCAAACACTGATTAGACAAAGCAGAACACAACCGAGGGCCTTATTCATCAAAGAGCAATTCACAAGACAGAAAGTCTGAATTACCTATC
AAAAACAACCAAAACAAGAACTCAACCCAATCAACCCAAAACACCATCAACCTCAAACCCACAGAACCTGAAAGTCATCAATTAGAAA
TCACCAAACCCATACCTAGAACCGAACCCATCCACAAACCAAGCAGTCATCAAACAACAAACACATCAAGCAATCACAACAGCAAAATCG
AGAACACATCAGCAAGGGTTTTCTGTGGGTTTCGGTTTTGAGTCTTTTTTGGGAGTTTCTAGGTTTTAAATCAACGATAGAAAAGGGAGGA
AGAAGTCTACGGAGGTCGTGTGAATATGAGCTCATCGAGTTTTAGGCTGCATAATGGTCGATCAATTCGGGGATTTGATTCTGAGGCT
ATTGGAAGAAATTTAAAGTAGATACCGTACAGCAAATGGGGAAAGCTGGGTTTCGGTCACCTcctcctgaaatTTTTTTggggcaTGTGTTAGATTAGAGA
GTGGAGGAAACCCTTTGAAGAATATTCTAGGAAGTTTTCTAAGCAGTTTAGTGGTGGATTTGGAGACCAATCATTAAAGGGATATTGGGTTT
TTGTTGGGTTTTTGGGcaaggaaggaagaaaaagaggagaaTCAAGCGACGGTGTGTTTTTCGAGTCTCCAGCGTACAGCGAACGGTGGTGGTCTCCGGTG
CCAGCGACGACGGCGCAAAGTGGCAGCAAGCTGCCTGGACATTGGATTGGGTGTTCCAAGTTAAAAGCTTTGAAGAACTAAGAAAGTTT
GAGAAGTAAGAGACAGAGCTTAAGAAGAAAaggagaacaaaagaaatTTctggGTTGAAAGTCAAATGCTGCCGTTTTGGTAGCTAAAGAAGGAAG
TTGATCCAGAACCAAGACCCGCACGAGTATTCATTCCAGCTCGTCCCCTCTTTTAATTCCaggttgtattattattattattattattattattatt

NW_019167882.1:2587907-2588613

Type: -----
Type: exon
gene_id: XLOC_009835
transcript_id: TCONS_00020958
exon_number: 1
oId: CUFF.1928.1
class_code: u
tss_id: TSS11379

CCCTCACCATTACTAGACAATTGAACCATGCCATTAAAGCCAATAATTCATTCCCAATAACTCGCAAACAGAAACCAAACCACAATCCCAA
AAATCCAACAAGCAACTCGTGGGCCAAAGGAAATATGTCAAACCTGTTCTACACCCCTGCAATCACCAATCACCGATAACTTAGGCAGAGCT
CTCACCCTAGAGCCTAGAAAACCCAAACCCAGAAATTGATCTACAACTCAAACACAGAGAGCAAGTAAACAgcatatcaacaaaaaaagaaaagaaact

ttttGCTGACTGTTGGAGGGTTTCGGATAGAAGGAAAATAGGGTTTCATTTGGATTTTCGAGTTTAAGAGGTTTTTGGGCTCGAAATTTAAGGGA
AAGGGAGATTCAAAGGTGATGAGACATATAGTGGAAAAGGAAAACTTTTTCAGTCACCGGAATAAGGTGAAACCGAAGGTGAAGAGTCTC
GATTGTGGGATAGGTCTgcgaaaatttaaagtatcttCAAATTCCATTCCGTTAAAAAGAATGAGGAGATCCAACCGATTTTATAGAGATGGTTTTCAAG
TGGGCTATGGTGCCAGTGGACGATCGGTAGTGACGATTGGCGACAGCCGACAGGCGAAGACCAACCGGAATCAGGATTGTGTGTGAAGTC
GGTGGTTTCTGTTCATCTGTGTTATATGAGAGGAGAGACCGAAAATACAAG

NW_019167849.1:6741787-6747797

Type: -----

Type: exon

gene_id: XLOC_004344

transcript_id: TCONS_00009381

exon_number: 1

oId: CUFF.894.1

class_code: u

tss_id: TSS5020

Type: exon

gene_id: XLOC_004344

transcript_id: TCONS_00009381

exon_number: 2

oId: CUFF.894.1

class_code: u

tss_id: TSS5020

TATGAAGGCCTTATTATAGTGATGTTGAAACTGGGGCCTCAAGTGGGCATTTGGTGTAAGAGGGGCTAAGTAGGAGGCTGCGTGTACGg
cctaagtttctcacaagaactagccatgtggcacttgaatggacgttcaaccaagtgcacttcaatagttgagatctgaacaataatcataaacatggttagtctcaagcattcacaataaggcacaatatacgaggtea
atctcaagcatacacacaacaaggcacattcacatcgagaagaagaacacatcgaggcaacaattggcattcaatcggggtgaattatataaacgggaatcatacatcgggacctcccaccatcaccagggccagggg
acagcccttggtgggtggcctaagctcgeatagcaccggtagacagtcacaactacgctgtcgggtcacccccctaaagagccttagaacttttagagctatgctaccagtaaccgtacaatgttgaaatggggcacttttct
agcacaaggatctaccggctatggccctatacatgggtggctcatggcaacctaaagtcctgcatggccctatacaagggtggctcatgacatcctcaccacctattctatcgacgtctcgtcaACTTGctagcttgaat
tctcaatcttcttgaatctctggaggtcgtgttctctcccagctggtttTTCTAGTCCTAAGCCCTctcacttcactaagtattcctgaactagtctcagatattctggttcctgctcggtaagatctcttcgacttg
ACGCTCtaagggtggctcatgtaatggcggctctggttggctccttACGGCTAAatctgtagatctgcatggaaggcTTCAAGTTGCTTACAttaaatactgggtgcacctcatccactcagtggtg
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GCTGAGCTCTACGATTCTtatctgccatttctcatcggttTTGATGCCTTCTCCAGGTAAGTTTGTGCAATCTCTATGTTTTCTTTCCACTCTTTGCTGAAG

TTGAAAGCTCTCGGATTCTTTCCCTCCGTATTGTTCCAagaaagtgtgggtagccttgtagtgtccagtaccacctcaaatgggctcttgtaGTGGAAGAGCTCTTGTGG
AATTGAAGCAGAGTTGAGCAACGTCCAACAATGAAGGCCAGTCCTTTTGGTTGGCTTGGACAAAGTGCCTCAAATATTCCTCCAACAATCC
ATTGAAACGTTCCGTTTGGCCATCGGTCTGAGGATGGTAGCTcgaagagatggtgagttggacccecaaatcttgaaaagtctCTCCAAAagaccctgtaatctcggatctcta
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CCATTCTTCTGAGGGCTGCCAACTCTAGTCACCTGCTCAATGCAatcgccacttgattggtcttccagcggATGCTCAAGGTGAAAGTCGAACTCCGCTAA
AAATTCctaccacatagcttcttctcgtgaagccttgggtggtagaaagtGCTAACGGCTGCGTTGTCcatcttcacgacaaagtgtgaaccaacaagtaatgtcgccaagccctcaagcaatgAAC
CATCACCAGGAGCTCTTTTTCCCTGGGCCGTATATTTCCCTCTCCGCTTCGCTTAGCTtcttacttcaaatgctatcggtgatgttgtgtaaaagcaccctccaatagcaaaatct
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GGCCGTGGTCTTGTGAGaataacctccacaaccttctataataatggctagtcacaaaatgagcggagtactaacattcttggGTAGTCCACTCTTfaatggccctaacctttccatgtccattcg
aatgtggccacgttcgataATGTGACCGAGGaaagtggattgggtctgaaCAAACGcgcatttttcttttataataTAACCGGTGGTCCCTGCAGCCTTTCAAAAACCCGAcgtaggt
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gggttctcctgggagagctcaattctgtatccactgctcgtcaggggtagaaccttagcaacatctctgcatcaccctccgaattcttcaaacattctTTACGCCtcgggtattggttacttctgacccttcttg
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CTAGCAGCGGGGATAGGGATCGCCTGAGCCAACGTCATGAAGTCTAATCCAAGaacgacatcaaatcatataggggagactgtgaagtctaccttccctccatggcccc
aatcgggtgtcatACTTTTCaagcttccactgatcgaaggctggcgaattgaccgcttctcgcacagcttctactaatctgaagaccacaccttttcttcttctggtgatgaaagtgtcggtgcaccgtatccac
catggccttgggttcccttccatgatcgaagttcacgtacatcaagcctctacctgcttcttctttagcgttcaattgggtcgggagggcactgaggaaccttattgagcccatcatggctggtcctctcagcttctcaacgctc
tctggCGCTTTTTCGGACTCTTGGGAtaaggtcttaaggcattaagggtcctcgggtcgggacccagcactGATGccgcccttgaagaagcaagctagtGTTGCCTAGGCCTG
AAAATCCCTGCGTTGTTTGTCTTAGGCTGGGTGCTATCTCGCCAAAGGACCTctgtctgatccccactgaagggtcgggtccaacctagttatcttccccactcccaaggTT
AAAGCTACTGCTagtgtagagatttttcttttaagagccatcattgaatcatgaAGACGTTCCGCTGTAGCCATAGCTGTGGCCACATattgcacttctgctttagcTCTA
TCCCTCGCCACGGCTTGAAGGCCcttaagaaaatagaacatctgtccttttgaacatgtcccgaatatccagcatcagggtagaaaagtCCTTATGAACTCTCGTACCGTTCCGAttg
accaactctcgaagtctcctcgagccatatactccacattctccgaaaaaattggttttcagfTCTCGCTTACAGAttcgtccaagtcttaacagcactcgtcatcgacaactggagcggccaccaCAACTTGG
CATCCCCATagaggtacatcgtatccattgtcacttctcctctgaacttgtgtgacagctcgaagtaTTGTTCCATGTTAAACAAGAAATTCTCAAGTTCCTTaatcccttggcccc
tcatagcatcaggtcggcaccttggccttctgtCCCTTGTCCATCGAGCTCAAACtcatctggccacagccattttaggatgctcactggccctgagctcctcaactccttggagaatgttcaagg
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TCCGGTCCACCatttggccatctcatcatttctctagcacttcaaccgtctctgataccaagtGTCACGTAATAAGCTTTCTCTCGACAAGCACTAGCTCGTGTGGCACT
TAaatggagcttccaccaagtcggcctcaatagatcagatctgaacaaataaccataaacatggttagtctcaagcattcacaataaggcacaatatacaggtcaatctcaagcatacacacaaggcattcacate
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acatgggtggtcctatggcaacctaagtcccgtcatggcctatacaagggtggtcctatgacactgCAGCTCTGACGTTCAAATAGGATCTAGGGTGTGGGATCTACTAGGGAC

TAGTTGCTGGATTTGGTCTTGAATCTAGGGTTTCCTCGTGGGTTTGGGTATATATGCTTGGTGCTGTGAAAGGTTAAAGGCTAGATTTGGGA
CTGGTGCATACAATGGTCAATGGGGCTTGGTAATGGGAGGCCAAGGTCGTTGTGGATAGGTGCTTCCAGGGTGGAGACGAGTGCTCGA
GGCTGGTGTGGGGATTGAAGGTAGTGAAAATAAAAGGGTTGATGTTGAACTATTTGGAGGAATGGGTACTCGAGGCTAGCAGGGTGAG
GAATGGTCAAGAGAAAAATGGATCCCCTCCTTGGCTTCTTGTGACCTACAAACACTT

NW_019167938.1:4279368-4279807

Type: -----

Type: exon

gene_id: XLOC_019024

transcript_id: TCONS_00041371

exon_number: 1

oId: CUFF.4365.1

class_code: u

tss_id: TSS22119

CACAAGATTAACAAGAATATCTTACATTATCTCAATCTATCGGTACTGAATTGTTAATTAGATCCTTAATCTGAAAAAATTCCACCATGAAG
TATAGAATATGGACACTCCTTCGTGCAGCCTGGCTGCCTGACTCCTATCCATGATTTCACTTCACAAGGGAATGTCCGAACTCTGCAGTTGT
CCAAAGAAAACCCGGGCCAACGATTGGTGAAAACCTGTCTAAGTGACATGGGCAAAGTATCTCTctgtttctcattttgtctAATCGGGTGGCTTTTTGC
TAAAGCCAGCTCGTTCCTATCTAATCTGAGCTTAACCTCGGTCGTGTCTGCTCATAATTCATCTAGAACTTTTGCTTAACAGGAATTACCTTA
CCGATTAAGTAGAGAATGGTGAAGAACTAGTTGAAACCTCTGGAAAATAGTTATTGTTTTCT

NW_019168470.1:2668708-2669135

Type: -----

Type: exon

gene_id: XLOC_039782

transcript_id: TCONS_00085187

exon_number: 1

oId: CUFF.9112.1

class_code: u

tss_id: TSS46318

GGAGGGTTCGGCAACAGATGGAGAGGCTCGTTGGTTTAGATATGGGCAGATTCGTTGGTGGGGTGGAGCATGGCTGCAGTGATGCAGTGA
TTGTGGGTGCCAGAGGCCAGAGCTAAGCCACATGGGGATGGGCATGGCTACTTGGACAGGGGGCCATGGCGTGATAGCTGTGGATATTAT
TAAGTTTTTGCAGTTGGAATTATTCTTTCTctgttgaaaaattattctcGGTGCATAAATTGTGTCACTCAGTTTTAGTGGGgttgataatatttagatttgagcCAACC
CAACCCCCCAACTCTATCTGTTCAAACAgaatagatttttttacttaaccaGAAACATGCATAATACTTTGTAATATTTctgctaatttttaaaagtaaaagtaattaatg
aaatattaaaataaa

NW_019167882.1:4845206-4846190

Type: -----

Type: exon

gene_id: XLOC_009092

transcript_id: TCONS_00019367

exon_number: 1

oId: CUFF.1940.1

class_code: u

tss_id: TSS10503

Type: exon

gene_id: XLOC_009092

transcript_id: TCONS_00019367

exon_number: 2

oId: CUFF.1940.1

class_code: u

tss_id: TSS10503

GGAAAGACGAAAATAAGAAGGATTCCAGTGACAACCAATGAAAAGATGAAATGGGGTTGTCATAACCCTTTTTTAGAGATggaattgaagaaatta
taAAGTGGGTATTGAAAGCCTAATACCCATGGCCTTGCAATCATagaattgcattattttactCTTCGACCTAAGGCTTCAAGTTAGTgtctttctgtctttttttgtttat
ttttattcattatttcattattaaatcATGGATCTTGACTtagttttttagttataattgattttggaCCTGGgtctttatttttaaaaaaaaaaaaaacacaagctTCTAGATCTATAGGCTTCACACCT
TGAAAAGTGAATAAGAGAAAAGGgaaggagaaagagaaaaagatagtGACAATAAAGGCTAGATTAATCCTTCACCTCTCCATCACGTTGCCTGtatcatt
atgaattttattgtttatattcctATCACTCTAACTAATAAGAATTGAAACTTATTcatcattttgctttttatttgtaTGAGATTGACACTAAATTAAGTAAAGGTCTTTA
CTTCTATCGCCatgaatttaattgtttatattcattgtttattcattgtgatttttaaaaagcAGGAAAAGTGATGGTAGCAAGAAGCTGGATCTAATTGGTTATATGCTCAAT

TGTttattggttattaattttattgttttatacttgattgcttatagactttttttttttgtgcttacTTGCCTTGCTAGAGAATTTTCTTTAACTCAGAACCAAGATTAGAATGAAGATT
GGTGCATTATCATTGTCACCTTCTAAATGGGCCTTCTCCAAGAGGTAAAAATTAGAGtatgattatttgattaagataaaattatgtattttctaCTACTAAAAATTGT
TTGAGGCATGAGtgtatcttttctttgtacacTTTGTTGTTGTATAGGCActctaaaaatattg

NW_019167993.1:3609476-3609646

Type: -----

Type: exon

gene_id: XLOC_024859

transcript_id: TCONS_00053460

exon_number: 1

oId: CUFF.5786.1

class_code: u

tss_id: TSS28904

taaaaatcaGAATTGAAGTGCCAATTTATGGTTTCAATCTCAGATATTGAAATCAGTTGAACATATAACCTGTACTTTGGGCTGGGAAAGTAGCC
CAAGGAGCTGAAGCATATGATTTCTCATTTTTGCACCTTGGGTGTAGAATTTGGGTATGATGAAAGGAAAATTTAA

NW_019167982.1:11853847-11854846

Type: -----

Type: exon

gene_id: XLOC_023773

transcript_id: TCONS_00051344

exon_number: 1

oId: CUFF.5614.1

class_code: u

tss_id: TSS27658

CTTTCCGAGAAGGCACCAAAAACAACTGAAAGCAACCTGATCGTCCAGGATCACGCATCCTTTTCCTCCTCTTTGGACTCTTCCACgaaatatgc
aagaaaaatatattCTACTCTCTCCTTCCTCGTCATAAGTCGACAAGCCAACAGCGTCCCTATATATAAGAGACCACCATGAAAGTCTATGTCCAAC
CTACTACTACTCTTACAAAAGAAAGATTCAATCCGCAGAATTTTCTTCAAGCTATAACCCAAATTTCCATGGCTCTCTTAAATAGCTTCGTC
AGTTGCTTTTCTGGATCTAATAAGGTAGCGTCCGAGGGAGAGGACAGTCCAAAATCAACCAAAGTTAAAGCTGGTTGTGAAGCCAAATCA
AAGGAAAGCAAAGCTAGGAAAAGCCCTCCAATTCCGATGACTTACTTCCCCATTGGAACAAGATTTTCTCGCTTGTGAATCGCTGAAACCT
GCTGAATTTACTACCCTTGTCATGAAAGCTGCTCCAAGGGccatacaaatatatattctatcaccattctttattatttttttttaaaaattctatcaattctttcatcttcgacgatattaataaataaat
tttgtctgATTCTTATATGATTTCTTTCCTTTAATAGGAAACGAAACAAGTTTGAATTGAGCAAGGATGTTGTGTAAGTAAAGAATTTACCAGTCA
CTCATAAAACTCTTAAGTTTTGTCAcataatttgataaatcatgttttattggaattgaattttaattttgtgtacAGCACTGGAGATTGAAGAATGTATATCTGTTCATATTA
ATCTCTAGGCCTACTAACCTGGTCGCAGATGCAGTCATCAAAAATAGGCCTAGGCCCAAGAAAATCGAAGAgataatccaaaacaaaatcatattgtAGT
GCTCGGGTCCATAAATATTAACCTTGCTTTGATTGAGTAATCACTTCAACCTCAAGTTCTAAACAAATTGATCAAAGCTGAAAATGCA

NW_019167949.1:11282184-11282858

Type: -----

Type: exon

gene_id: XLOC_019984

transcript_id: TCONS_00043389

exon_number: 1

oId: CUFF.4803.1

class_code: u

tss_id: TSS23223

ACAAAAGTGCAAACCGAGCTCgagcaagagaaaaaaaagaaaggcacaAAAAAGCCCCACGATAAAGTAAGGCACTCCAATAAACTATATCCCATCTT
GGTCTTCCGTTAAACGAAACggaggagaaagaaaagttcTAGGTCCTAGAACGTAAACTAGGCAGAGTTATGCTGATTACCTTGGAACAACTAATGGA
TAGGCTTTTTTGTGTGCTACCGCCATAAGCCGGTGGTAAGAAATCCGAACTTATGATAGGGTGCAAGAAAATGGGGAACAAAGACatac
cgaaaaaaaaaaatacaacgcTCAATTTGCATAACAAAAGTATGATCCTTTGGAGGCATTTATACGACACACAATGTTCTCAAACCAATAGAGAAGGT
AAAAGAGCTATTCCCGAATAGGACactataacataattttaatagcAAGGTTCCCCCTTGCAGGCTACCCTTGCCATAGGAACGCAACCCCTTCTTTGA
TTAAAGCGCCACGTCTGCCTGCGGGACTGGAAGCTGCCTTACGTGAGTATTCCCGCATTAAAGTCTTTGGGTTCAAGCATAGGGTGGAAAGT
TCAAGCGCGACCTACTCATCATTACATTGGCTTGCCTATTCAGCGGGTTTACTGGATGGTGGGCCTTCATACCAGAACCTCTACTAACAAGA
CC

NW_019167860.1:20997074-20997721

Type: -----

Type: exon
gene_id: XLOC_006971
transcript_id: TCONS_00014837
exon_number: 1
oId: CUFF.1578.1
class_code: u
tss_id: TSS8032

GACAACAATGAGCAATCCTTGGGGACAAATCTTCACTAATTATAAAGTGATTTTTTCGTTTGACGGAAATGGCGATGCCGGTGGCAGGCGGG
CTGTTTGAGCTAGGAAGTGCACAAACCACTGGCTCTGGGGTGTGAAAGGAAGTGCTAGGGCAACCTAAGGTGCCAACATAGATTTGGG
ATCCTTCTATGGAGTTGGATTGCCTGTTGCAGTTTTGATGGGCTTTGTCATGGATATTCGCTTCTTGGGCCTTTGATTTGGTTTATTGGCAGC
ATTAGGTTAGGTGATGTGTGCAATTGTCAAGGTCGTCGTAGTGGCTGGAACAGATTGGTTAGTGCAAGCCAAAAGAGCTAGCAGGAGAGG
AGGAAGAACAGAGCAAAACCCAGGGATTAATATCAATAATGCTGGTGAATTAGCTTGTTTTTAAGCTATAAATTACTTAAATGATTAGTAC
ATCTTGTTTTTCTCTCCCTTACGCagttcaatttataaattttgatattggGTTGAGAGAGAGGGTTTTTCGTATAGGCTTACATTTTGGGTCTGCTGTTGGgatgag
tgTTTTTTTTtaattaagaaaacgACATATACGGAATGCAAGCGACCCTAGCTAGTTTATGCAATGGTTTTAAAGGAATAT

NW_019167860.1:7857588-7858099

Type: -----

Type: exon
gene_id: XLOC_006961
transcript_id: TCONS_00014827
exon_number: 1
oId: CUFF.1317.1
class_code: u
tss_id: TSS8022

CTCATCCTGTGTATAAGTACAAATCTCCGCCGCCCGCACCACCATATAAGGAGAATTATGTATCTCCTCCCCACAAAAACATCACCATGA
CCAACATCGCCGTCATTACCACAAGCATAAATGGAGTCCTGATCCCTACATAACGTATCAGTCACCTCCACCACCACCTCACCAGGGGTAC
CCTGTTTTTCACTACTACTCTCCACCACCTCTGGGGTTACATCGGTGATCGATGTTATCAGTTGTTGATAGTGTTGGTGTTTAAGTAAGGTTT
CTTGTAATGAAATCAACAATGATAATTCCACCAGACTAGACTCTTTCTGGCCCCAGCTGCTATGGTCAAGTTAATTTGAATGTTTATTGATCTC
TGGTAATCATGTAAATTGTAACCTAAGttgcaaaaagtttcaataccaCAG

NW_019167838.1:12674158-12674338

Type: -----

Type: exon

gene_id: XLOC_003711

transcript_id: TCONS_00008002

exon_number: 1

oId: CUFF.768.1

class_code: u

tss_id: TSS4294

aagCATGGAGGCCACTGGTCTTCAATTGCCTCCAGAATGGCCGTCCGTcagagaatttttagaaaaaattggcaTCTTGATGATTCATCAAATGCTCATCTAA
TTGACCTCAGTAATGAACTCTCACGTGAGGACTTTCAAATGGTTGTATCTGGGAGGAGTTCGTTAATGAGTACAAT

NW_019167937.1:10858965-10860016

Type: -----

Type: exon

gene_id: XLOC_017499

transcript_id: TCONS_00037801

exon_number: 1

oId: CUFF.3903.1

class_code: u

tss_id: TSS20317

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AAGAGTGGATATAATCTGCTATgcaatattaaacaatagACTTAGCTGACAATAGTAATACTGCAACGTGGAAAAAGCTTTGGTCTACTGACGCT
CTAAACAAGATAAAAAACCTAATTTGGGAGACTCTACCATGAGGTTGTGCCAGTAATGATAAATCTTTAGAAGAGGAAAAGTGAACCTTGAT
AAGATCTGCTTCAGATGTgaggaagaaaaggaaacaGAGCTACATGCGATATCTAGGTGCCCTTGTGCTATAATTATGTGGCACCAAATGGTTGTTCT
TAGTGAAACTTACAATGATGTTGACATAACAGTGCCTGAATGGATCAAACAGAATATACTGAGGTTGAGCTAGGACAACATGCAAACCTTTC
TCAATAATAGTGTGGGCAATATGGACAGCCAGAAATGGAGAGTTGTACGGGGAACCTAAGGAGAAGTCTGCAAGAATCAAGCAGCTATACG
AAGGGGTATCAAACAGAGTATGCTCAAGCTCAACAAATAAGTGAAGGCAGATGAGGCGACTTGATAAAAAGTGGGCACCATCTTCGACG
GGTTACTATAAAGTAAACTTTGATGGCTCCTTAAACATACATGGAAACAAGGGGCGTGGGagttttgtaagagattatgaGGGGAGGTGATAGGGGC
AACTGCTTTTAAAGTCGAATGCTGGCAATGGCAACGATTAGAGCAATGGGTCTTGCTCATGACCTGGGACTAAACAAAGTTATAATGGAGG

GAGATGATCTTATCATGATTA AAAAGATTACAGTATAGACAACCAAGCTTATCCCCTACATGAGTGATTATTGGTGATTATTGATGACGCTA
GAAGGCATAAGGAGCTGTTTCAAGATTgtaggtgtgcacataacaACAGGAGGGGACGCGGCAACACGTAGACTAGTTAAGGAATCTAATCTATCT
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NW_019167827.1:21208689-21209613

Type: -----

Type: exon

gene_id: XLOC_002234

transcript_id: TCONS_00004797

exon_number: 1

oId: CUFF.489.1

class_code: u

tss_id: TSS2593

atTTTTgtctacattcttctctgttttctaaaaaaaaaaggcagattctctcaacaaaaaaaaatcaagtGCCGACCAGTTGCCAGAACTAGTCACAGGTGGTCGCGTCGGCAGCTG
TGCTTCATCGTCGGCCACCAATCACAGGCATCGAAAAATAGTTAAAACCCCTTGAAGCTTCTTTTTACCTCCCCTTCACAAATCTGAGCCC
TGTTTCGCACAAAATGGCCTCAGAATCACCAAATCTGAACCCAAAAGTCGAAAGATTCAAACCGCTTAAACTTCCTCCTTCGCCGTTAGatctt
cttgatTTTTatattgttcTCCTCACCTTCCTCTCTTTCCACCATTATCGATCTCCCAAATAAGTCACCACCATTCTTTATGgttttgaacttttctttctttttt
aaggaaactgactttttattttgtttattttgcaaGACTTGCTTAGCGCTGATGGTTCCTCGCCgtgtgttatattttttattgtttttgtgaGAAGGTAGGTGTATAGGCTAAGTGC
AAGCTGGTAGTGATGGGTGTGAGCTGCGACTCTGACAATATTTGTGAGAGTTGATGCTCAGGGTATGGGGACTAGTATCTGGGTTTATAT
GTGAAAAGCTTGAAGAGCTATTGGGTGTTGAAGGCTCTATTCAGTGTATGCACCGAGTAAATGGTTGGGACTCTAAGACTGGGGTGATTGG
TTTGAGTGAGTGCTGGGTCAATTTGGGTGTGGAAGCTTGGGTGTCAAGAGCTTCGAAGGTGTTTTTGCCAGTGGATGGAAGAGAGGATCGG
TGCCTCAAGCTTTATGGGTTTTTAAGAGCTTCGAAAGGGGAGCAGGTGATGGCTGGTATTGCAGTGTAAGGGTTCTGGCAATGCAGGGTGT
GGT

NW_019167827.1:6023080-6023921

Type: -----

Type: exon

gene_id: XLOC_002220

transcript_id: TCONS_00004783

exon_number: 1

oId: CUFF.383.1

class_code: u

tss_id: TSS2579

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ATATTCCCAAACCCTTTTAGTCCTGTCTCCCCATACTAGACCCCAACCAAGCCATAAACTAGAGGAAGACCTTCCGTTCTGCTTCCATAGAC
ATCAGCACCAAGCACTAACATGGCACCCCTTCATCCTTGCTCCAACACACCCAAACCATCCCTAAAGCACTCTTAAACTCAACAGAGCCCTG
GCACCCATTCCATCAACCTAGCAAGCATGACTCTTAAGACTTCAATAGCCTTCCTCGTCGTTTGGCCAACACCCAACCCCTGTATGCGCCAA
ACTGGTTGCACCCTCTTCAATAGCCTCCCTTGTTGCCAGCCAACACATAGCATTACACTTCTCCACCAACACCAAGCTCTGGCCTAACAAAC
TAAATCCATCACAGTTGATTTGCACCAAGCACTGCCAAATCCCAATTTAACCCAACGCTtttctatttgaacaaaaacactACTAAAACAATCTGCCATAC
CTAAATTAACACATCTCCACACACACCCCTAGCCTCCACACGCACACCGCCAACACCTCGGCCCTTGCACGAACCTAACACACAAATACC
CTAAAAGAACCACCATAAACACCCCATTCAGCAATCTATAGCAaactaaagaaaacaaaaacacacaGTCCCTCCCCTGAATGAGGGAACCCGCACTAA
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NW_019168048.1:28306059-28306708

Type: -----

Type: exon

gene_id: XLOC_030737

transcript_id: TCONS_00065920

exon_number: 1

oId: CUFF.7162.1

class_code: u

tss_id: TSS35813

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attaaagaattttaacaaggaaaaagaaaccACGAGCGACGCAAACCCCAACACAGAAACAAAATCCATCAACCCAGAACTTCAAACAAAGCAACCACA
ACAGAAAGAAGGAACCCAGCAATCAACAGAATAGAACCCATCTACAGCAAAGCAAGCCCCAACCAACAAACTCCAACACACTAAACCC
ATACCCGGCAAACACAAACTGAGCTTCAACCCATTAACCTAGAAAATTAAGCCACCCAGAAACACAACCTTAATTTCGCAAAAGAAATTCA
GTGGAAACAGAGAGACCGAGGGCAACACAATTCTCTGGTAGCGGGACCAGCGATTGACAGCGAGATCGGTGTTGGAATAGGCTGGTTTCT
GGATAGCTATTCTTCGAGTGAGAGGAAGCTTTTGTATTTTGGTGATCTCAGATAAAGGGTGACAACGTACAACGGCGGCAGGGGCAGAGC
ATCGCTGGTTTCTAGGGAAAGTTTCAAGACCGACCGGTGttgttggttttttttttt

NW_019168159.1:25008997-25009644

Type: -----

Type: exon

gene_id: XLOC_033905

transcript_id: TCONS_00072885

exon_number: 1

oId: CUFF.7797.1

class_code: u

tss_id: TSS39535

CCGGGAGGTCCGGGTCACCAAGGACCTCCACCGGGTGGTCCAGGTCACCAAGGACCTGCACCAGGACAACATGGACCTCCATCGGGTGGG
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ATAAAAGGTATTAGAGAGGAATAAGGATCATCAAGTGCTTGATCAGATAAGA ACTATGCCCTTACATTACTTGTATCATGTGTTTTTTGAG
GTATGCCGTGAAAAGTGGGAAGCCTGACTTGATCTTTGTA CTGATGTTTTCTAAGTTCTATCTTCTATGTatgttaatcaataaattatatatgggAGTAGT
TCCATATCTACACTACACGATGTCCTCTGCTTTTCACTGCACATCATTCTTTTCGTGGGGTtcgtttccctttttctgtAACACATATCCCCAAtggataaaattat
caaatgcttACTACAAATTAATTTGAGCTTCTTTAACCTGATCATAAGGCCTTCATAAAATGTTTTTCGTGAGTGAAACCATCGGTTGCAGTGCT
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NW_019167882.1:14219958-14220439

Type: -----

Type: exon

gene_id: XLOC_009844

transcript_id: TCONS_00020967

exon_number: 1

oId: CUFF.2100.1

class_code: u

tss_id: TSS11388

ttacatttctctaaaaaaataaacgcaGCTGACA ACTCTCCCTAAACCCAGATTCCGGCGCGGTTTTGTTTCCGGCCCTGCACGTCGGCACAGATTA ACTT
CTAAAATTTTGCCGTAGCTTTTCCTCAGCCC ACTGATCACAGATTCGAGCTTGGATTTCCCAAATCAAACCACAAAATCCTAAATCTAAAG
TTGAAGAAAGTTGAAGACAAA ACTTTAGAGCCCTGAAAATTTCTCCTCCAACGTCCGATTTGGCCCAAACCAAGATATGTTCTTCCCCTC
CTTCGATCTTCTTTTTACTATTGCTGGTCGTCTAAAATCTCCCATCGTACATCGCCGCTACTCGTTCCGTTCGACGGTGGTGGCTTCTTCC

TCCTTTTTCGTTTTGTTTCCTCACACCTCTTTCTTTCTAAATCCAAAAGCCCCAAATCCCAACGTTTCGGCCACCTACTTTAGCTCTTGTTCCTT
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NW_019168037.1:14156472-14156924

Type: -----

Type: exon

gene_id: XLOC_029088

transcript_id: TCONS_00062488

exon_number: 1

oId: CUFF.6922.1

class_code: u

tss_id: TSS33896

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GTTGACACTGAAATTTACCACGAGCCTCCTTTTGGCCTCCTCATCTCGGATCTGAAgtcaaatttcacaaattgtCCTCCAATGTCTCAAATCTGAAGA
TGAAGTCACAACCTTCCACCactgtttcaatttttcaaccgTCTGATCAGGCAGAATTTTAGATATGATGTTAAGCTTCCTTTGCTCTACATTTCTCAGT
TTTTGATCATCAAAAACCTTCAAGTTCCCGTGAATTGTAACCAATGTTGCCACTGCCAGAACAAATCTTTTTGTAAACTTTTCGTAATTTTTGTG
TTTCTGAGATTGTTGTTGGTGTGTTGACTGCCTCTGATGATTTTTGATCTTGGGTCTTGTGTTG

NW_019168270.1:16691399-16693069

Type: -----

Type: exon

gene_id: XLOC_035884

transcript_id: TCONS_00076984

exon_number: 1

oId: CUFF.8337.1

class_code: u

tss_id: TSS41830

TAGAACTCAATTTAGAgcccaaattcaatnttaatgctcaatnttaactatnttcagaatnttgataaatcaataaaaaatacattaaaaaatataatggagCTTTACCGTGTACGGCACCAAAGCC
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GCAGTTCAAGTTGGccaatnttggaaaaaaacactatgcaaaaaaattcaccCAGCCACCAGCGTTTCACTACTATTCGGCCTTCACTAGCCATCGAACCAACAA
ATCTTTTAATTTGCCTTGCCTAACCTAGCAGCCGAGCGCActgctataaaacaaaattcccAGCTCCGTCATCGTTCGAGAGACACGTTTTCCCTACTG
CCACCTAAAATAACCAAATCTCAGCGTCTTCCACCTCGAGCCTCTTGAGCCACAACCTAAAACAACCTCAAGCTCACTACCCACTACCCATT
GAGTAACCAAAACTGACCAACATACAACCGCCAAAAAACATACTCCGATGCCACTAAACTGACAGCCTAGGAAACCATCGTCAACAAACA
AATCAAACCTTACCCAAACTGCCACCAATCAGCATCCTTACCAGAGCCCTATTATCGACGGTACACCATCGAACAGTAAACCTAGCACCCAC
CCTAGCCGAAACACTCTTATCACCACAACACCGAAAAAATCTACCCACAGACCACTCGAAACCCATAACAACCAACCAAAAAACCAACAGA
CATAGATTTCTTCTACATCCCCTGGAATGGGGAACAGCAACGCCAAAccccaaaaacaaaacaaaaacaaaatcaCATAAACGAAAGGAGAAGAGCTTCT
GTTTAGAGTGTTTTAGAAGGTTTTGGAGCTTGGCTTTTCTTGGAGAGGAAGGTCTTGGGAAGGGCAAGAATATACTAAGAGGTGGGAGCCA
TTGGAGCGATGAAGCTCGAGCTTTTTGGAATTGAAGCCGCTGGCTTTGATATCAGATCTAGGACAAACCGCTCAGTTTTACGCAAAACCA
CTTGTGAAAGTGGCAAGGGGAGGTCAAGAGGAAGCTTTAGGTGAAATTTGGCCAAAACACAACAGTGGGCGGCGATAACTGACGACAA
GCGATAGTCCCGTCGACTGTTGGTCGCCGAATGCTGAGGTGTAGGGAGAAGCTCGTCTTTTgcatgaagaaaatgaagatnttttgaagagaGGTGAAAtgattta
ggaaaaaaagaaaagnttatagtaaaaatntttaaagataaaaaagaaacaggGTTAACTAGCTAACCCAAATCGGCCTAGAGACCCGACCTGGTCTATTTGTTGCT
GACCCGACCCATGCCAAGGTTGACCCATGACCTGTTTTATATGGGCCgagttatnttcctnttttgggcCTTAATCCATAGCCCAAGTGAGATGTATAtggtntt
taataatnttgcCCATATTgataatntttataatnttataatntgaatacgaataatnttaataaaaaagagagaatnttttggatctnttgcctaaatnttgaagaacCCAAATAATTAatctcctnttttaag
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NW_019167871.1:11503573-11504733

Type: -----

Type: exon

gene_id: XLOC_008159

transcript_id: TCONS_00017315

exon_number: 1

oId: CUFF.1867.1

class_code: u

tss_id: TSS9407

AGGAAAGAACGATAAGGTAATATGGGAACAGGACCTGCATGgagtatntttgtaaaaaaggcCACAAACTTTTTAAACAATTCTCTGGAACATTTCCCT
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CTAGTGCTCTGAGGTTTGGCGCTAACTCATTTAGACAGCTTATGTCCATGTTGTAAGGGAGCTTGAAAACACTAATCATGTGCTATATAG
TTGTGAATGGGTAAAAAGTTTGAATTATCACTTAAGGTGGTGAATCTGACCTGGTGCAGACGGTTGACATTGAGATCATTCATATTAA
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GAGTTAGAGTTTAAGCAAAAGTTAATGTCTGGTGCGCCAATGTCTGGTAGAATTGGTATGGTGGACTGAACCTTGTGTGGGTTTCGCCAATGT
CTATTGGAAAAAGTAGAAGACACATTGAATGGCTCCCACCTATAGAAGGCTCATTAAAGTTCAACGTGGATGGATCGGCAAATGAGAATC
CTGGACCTGAAGGATGTGGGGGTGCTTCGAAACGACAAAGGTTTGGTGTGGCTATGTTTTACAGGCCATGTGGCATCCAAGAACCACAAA
TGACAGAATTAATGGCGATCAAAACAGCACTGGCAATCTTCAAACGTACAGAATGGAAGCACAGAATAAAGTTGTTATAGAATCAGACT
CAAAGTTGCAATTGATTGAGTAGAAAATAGGCTGACACAACCACGGAGACTATGGAATATTTTTACAGTGATTGATTGAACTCGTGGATG
TAAGTTTTGTAAGTACATTGCGAGAAGCAAACACTATGGCAGATGCCTTGGCAAATCAGGGGTGGTAAGAGTGGACATGTTTGCAGCTTG
GTGGACTAGTTGACTACATTACACAAAGGGTCTGAGAATTGTCTGGGGCGAATCTTAATGGATTATGAAAATGTGCTTTTGAATGTGAGA
GACTGAGGTTGTATTGAGGTGGTTTGTAAATGTTTGTAAATGCGTGATATTAAGGtgtttt

NW_019168048.1:28306059-28306708

Type: -----

Type: exon

gene_id: XLOC_030737

transcript_id: TCONS_00065920

exon_number: 1

oId: CUFF.7162.1

class_code: u

tss_id: TSS35813

ttgattcaatgattTTGATTGGGGCTTAATTCATGCaaaacaaatcacaaaattaattcacatgaaaattgaattaaataaaatcaccaAAATCACAAATTCGGTGGGAATTGgtttttccaa
attaaaaagaatttttaacaaggaaaaagaaccACGAGCGACGCAAACCCCAACACAGAAACAAAATCCATCAACCCAGAACTTCAAACAAAGCAACCACA
ACAGAAAGAAGGAACCCAGCAATCAACAGAATAGAACCCATCTACAGCAAAGCAAGCCCAACCCAACTCCAACACACTAAACCC
ATACCCGGCAAACACAAACTGAGCTTCAACCCATTAACCTAGAAAATTAAGCCACCCAGAAACACAACCTTAATTTCGAAAAGAAATTC
GTGAAACAGAGAGACCGAGGGCAACACAATTCTCTGGTAGCGGGACCAGCGATTGACAGCGAGATCGGTGTTGGAATAGGCTGGTTTCT
GGATAGCTATTCTTCGAGTGAGAGGAAGCTTTTGTATTTTGGTGTATCTCAGATAAAGGGTGACAACGTACAACGGCGGCAGGGGCAGAGC
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NW_019168159.1:25008997-25009644

Type: -----

Type: exon

gene_id: XLOC_033905
transcript_id: TCONS_00072885
exon_number: 1
oId: CUFF.7797.1
class_code: u
tss_id: TSS39535

CCGGGAGGTCCGGGTCACCAAGGACCTCCACCGGGTGGTCCAGGTCACCAAGGACCTGCACCAGGACAACATGGACCTCCATCGGGTGGG
CCAGGTCACCATGGTGGCCACGGCGGCCATGGCGGGGACTGCTAAGCAGGTGCATGGTTTGGTAGGGTTATATAAATGTTAGTTTGGCTGTA
ATAAAAGGTATTAGAGAGGAATAAGGATCATCAAGTGCTTGATCAGATAAGAACTATGCCCTTACATTACTTGTATCATGTGTTTTTTGAG
GTATGCCGTGAAAAGTGGGAAGCCTGACTTGATCTTTGTAAGTGTATGTTTTCTAAGTTCTATCTTCTATGTatgtaatacaataaattatatatgggAGTAGT
TCCATATCTACACTACACGATGTCCTCTGCTTTTCACTGCACATCATTCTTTTCGTGGGGttcgttttccttttttctgtAACACATATCCCCAtggtataaaattat
caaatgcttACTACAAATTAATTTGAGCTTCTTTAACCTGATCATAAGGCCTTCATAAAATGTTTTTCGTGAGTGAAACCATCGGTTGCAGTGCT
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NW_019167882.1:14219958-14220439

Type: -----
Type: exon
gene_id: XLOC_009844
transcript_id: TCONS_00020967
exon_number: 1
oId: CUFF.2100.1
class_code: u
tss_id: TSS11388

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CTTCGATCTTCTTTTTTACTATTGCTGGTCGTCCTAAAATCTCCCCATCGTACATCGCCGCTACTCGTTCCGTCGACGGTGGTGGCTTCCTTCC
TCCTTTTTCGTTTTGTTCTCACCACCTCTTTCTTTCTAAATCCAAAAGCCCCAAATCCCAACGTTCCGGCCACCTACTTTAGCTCTTGTTCCTT
TGTTt