

Spretus/Ei CCAATTTTTCTTTAGAGACTGAGACCCACATTGTAGCCCATGCTGACCTGACACTCATCA
NIH CCAATTTTTCTTTAGAGACTGAGACCCACATTGTAGCCCATGCTGACCTGACACTCATCA

Spretus/Ei GGCAGCCCAAGAAAGCCCCAAACAAATTTCCAAGTGTGAGATTTTCAGATGTACACTGCC
NIH GGCAGCCCAAGAAAGCCCCAAACAAACTTCCAAGTGTGAGATTTTCAGATGTACACTGCC

Spretus/Ei AGTGCCAAGATCTGGATCCAGACACTTGGCTCTAGAGTCTACACTGTGTAACCTCCACTC
NIH AGTGCCAAGATCTGGATCCAGACACTTGGCTCTAGAGTCTACACTGTGTAACCTCCACTC

Spretus/Ei CCAGATACCAGAGGGAAACAAACTCATTGCCACGGCAGGTCCCCCTTCTTGAAGGTTGCTAT
NIH CCAGATACCAGAGGGAAACAAACTCATTGCCACGGCAGGTCCCCCTTCTTGAAGGTTGCTAT

GR

Spretus/Ei CCCCCGAACCTTGATGTTCTGGTTCTCATTACAGGGGCCGCATGGAAGCTCCTCTCAGGT
NIH CCCCCAAACCTTGATGTTCTGGTTCTCATTACAGGGGCCGCATGGAAGCTCCTCTCAGGT

Spretus/Ei GTACGGGAAGGCCAGACACAGGTAGACACACCCCAGATAGGGGACATGGCTTACTGGTCC
NIH GTACGAGAAGGCCAGACACAGGTAGACACACCCCAGATAGGGGACATGGCTTACTGGTCC

Spretus/Ei CACCCCATTTGACCTGCACTTCGCTACTAAAGGTCTCCAAGGTGGGTACAGGATGACAGGA
NIH CACCCCATTTGACCTGCACTTCGCTACTAAAGGTCTCCAAGGTGGGTACAGGATGACAGGA

Spretus/Ei CGGGGAGGGGCAGTCAAACCTAAGAGGAGCTGGGCTTGGAAACACCATGGTTGTCTGCTCCC
NIH TGGGGAGGGGCAGTCAAACCTAAGAGGAGCTGGGCTTGGAAACACCATGGTTGTCTGCTCCC

Spretus/Ei TGTACTTTGTGGGTCCCTTTTCTGGTACAGCCTCCCCTAGAGCCGGTGCATTTGAGGCCTC
NIH TGTACTTTGTGGGTCCCTTTTCTGGTACAGCCTCCCCTAGAGCAGTGCATTTGAGGCCTC

Spretus/Ei ACCCGAGCTATTCAGAACCCTAGGCCTGTGGAATGTACCAGAGGTTGGGGTAGAGAAGCT
NIH ACCCGAGCTATTCAGAACCCTAGGCCTGTGGAATGTGCCGAGGTTGGGGTAGAGAAGAT

Spretus/Ei GTCAGGAAGTGGGGGTCAAAGTGGGAGGGGCC ::::::::::::::: ACTGAGGAGGCTGCA
NIH ATCAGGAAGTGGGGGTCAAAGTGGGAGGGGCCTTTGACTAACGGCCACTGAGGAGGCTGCA

Spretus/Ei TAGGGTAAAGAGAGATAGATAGGGAGGAGAGGGACAGGAAATGGGCCAGTTGCCGTTGCT
NIH TAGGGTAAAGAGAGATAGATAGGGAGGAGAGGGACAGGAAATGGGCCAGTTGCCGTTGCT

Spretus/Ei CACACAGGCAGAGGTTCTGCTCAAAGGGGAAGTGAGTCTTCGAGGGAGGAGGAGGGTATC
NIH CACACAGGCAGAGGTTCTGCTCAAAGGGGAAGTGAGTCTTCGAGGGAGGAGGAGGGTATC

Spretus/Ei ATGTCAGCGCAGCTTTTCTGGCTAAAAACACAGCAGATTCTGGGAAACGAGCTGGGCATT
NIH ATGTCAGTGCAGCTTTTCTGGTTAAAAACACAGCAGATTCTGGGAA :::::::::::::::

Spretus/Ei CAGCAATATGAGGACTGTTGACTGAGCCTACGTCTGTCCAGCTTGAGCAGGGACATCCCC
NIH ::::::::::: TGAGGACTGTTGACTGAGCCTACGTCTGTCCAGCTTGAGCAGGGACATCCCC

Spretus/Ei AACTAAGAAGGACCCCTCCAAGCCCTGTTCATCAGGGGTTCCATTATAGGTAGAAGATAGAC
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Spretus/Ei CTGTTTCCAAATGTGGCTAGCACAGAGGCCCTGGAAACACAGAAGTCATCTCTGATTGGT
NIH CTGTTTCCAAATGTGGCCAGCACAGAGGCCCTGGAAACACAGAAGTCATCTCTGATTGGT

Spretus/Ei CCCATGGCCTTATAGGGCAGAGCAGTTAGAGTTCTGCTGTAAAGGGCCAAGAGAAGCTAA
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Spretus/Ei CTAGGCCCAAGGACAAAAGACAGAGGGTGGAGGCAGAGAGCCGGAGCCAGGTAGAAATGGG
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Spretus/Ei GAGGTGTGTCTCTGGGTATTCGATGTCTGTGGGTGAGAAGGACAGTGGGGGATGAGGCGGC
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Spretus/Ei AGGGTGACACGTTGGAAGTTTTCTTAGTCCTGGCCTTAGCTGTCTTCCCTCCCTGCTTGC
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Spretus/Ei TTTCTTCTTAGTCTCTCAGCTCACCAACAAACCCTGGCAGCTCTGAAACCCACTTTTTGTT
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Spretus/Ei TTT::GTTTTGTTTTGTTTTGTTTT:::TCAAGACAGGGTTTCTCTGTATAGCCCTGG
NIH TTTTTGTTTTGTTTTGTTTTGTTTTGTTTTTCAAGACAGGGTTTCTCTGTATAGCCCTGG

Spretus/Ei CTGTCTTGAACTCACTCTATAGACCAGGCTGGCCTCAAACCTCAGAAATCTGCCTGCCTC
NIH CTGTCTTGAACTCACTCTATAGACCAGGCTGGCCTCAAACCTCAGAAATCTGCCTGCCTC

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NIH TGCCTCCCAAGTGCTGGGATAAAAAGGCGTGGCCACCACGCCAGCCTTCTGGGACCATT

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Spretus/Ei CTAATAACAGCATGTTCTTCTCTGTATGGAACTGCCTGCAGGCCTCCTATCGCTCAAG
NIH CTAATAACAGCATGTTCTTCTCTGTATGGAACTGCCTGCAGGCCTCCTATCGCTCAAG

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NIH ATAAGCATTTATGTTGCATCCTGATTGGCTTGTGTTTTGCTTTTTTGGATAGAGTCTCAGAAC

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NIH GATATGTAGCCCTGGTTGTCTAGAACTCATTTGTGTAGCCAGGCTAGCCTTGAACCTTCT

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Spretus/Ei AGCCCCAAATGTCACCTTCTTTAGGAAAGCTTCCTTCAGCTGCTCCCCAATTTTTCCAAC
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Spretus/Ei ACATACCCTATAAATTTACTTTACTATGTTGGTTGTCTAGGATGTCAGCTTCACGGGG
NIH ACATACCCTATAAATTTACTTTACTATGTTGGTTGTCTAGGATGTCAGCTTCACGGGG

AP-2

Spretus/Ei CAGGAATTTTTGTCTGCTGTGTTTCATTGCTGTGTCCCAGCCTGGAGAACAGGGCCTGCC
NIH CAGGAATTTTTGTCTGCTGTGTTTCATTGCTGTGTCCCAGCCTGGANAACAGGGCCTGCC

Spretus/Ei AGGGGAGGGCTTAGGGTTGGGGGGGGG : : : CTGGGCTGCATCTCCAAGCATTGGACTG
NIH AGGGGAGGGCTTAGGGTTGGGGGGGGGGGGGGCTGGGCTGCATCTCCAAGCATTGGACTG

Spretus/Ei TCAGGCTGGGACACTCAGCTGTGCCTTGAGGCCACTAGAAACCTAACGAAGGGGAGAGAT
NIH TCAGGCTGGGACACTCAGCTGTGCATTGAGGCCACTAGAAACCTAACGAAGGGGAGAGAT

AP-1

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AP-2

SP-1

AP-2

Spretus/Ei AGGAGTAGGGCGGAAGGGGTCTAAGCTGAGGTGCTGACCTGAGGGCCTGGGAGAGAGAAG
NIH AGGAGTAGGGCGGAAGGGGTCTAAGCTGAGGTGCTGACCTGAGGGCCTGGGAGAGAGAAG

Spretus/Ei AGACCACAAAGGAAGGTCAGACGAGGCCAGACTTGACTTGAGAGGTTGGACTTTGTACTG
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Spretus/Ei TGGCCCAGGGGAGTCATGGGAGGGTTTTGAGCAAGAGGGTAACTGGATTGCTCTAGATT
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Spretus/Ei CCTGTGACTACTATGTGGAGTGGATGGGAGATGAGAACCCAGAGAGGAAATTCAGGCAAT
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Spretus/Ei AATCCAAGGTAAAAGTACTGTGCGAGTCTCCAGAGGTTTCAATGATGGGGACCCGGGAG
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Spretus/Ei CAGGGTTCTGCCCCTTTGTCCCTTTCTCTAACGCCTCTCGTCCCAGGTTGGCCTCGAC
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Spretus/Ei TCCATCTCCAGGTGTGGTCCCAGGACAGCTTTGGCCGCTGCCAGCTTGCTGGCTATGGCT
NIH TCCATCTCCAGGTGTGGTCCCAGGACAGCTTTGGCCGCTGCCAGCTTGCTGGCTATGGCT

AP-2

Spretus/Ei TTTGCCATGTGCCTAGCAGCCAGGCACTCATCAGCTGGACTGCCCTACATGGAGGCCCC
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Spretus/Ei TGGGCAGTTGGAGGGAGCAGCTAGCACGGGCTTTTCGTGGGTGGTGGGCCACAGCTGCTGC
NIH TGGGCAGTTGGAGGGAGCAGCTAGCACGGGCTTTTCGTGGGTGGTGGGCCACAGCTGCTGC

Spretus/Ei ACGCAGATACCATCTACAGCGGGCTGACCGCTACCGCTGCACACGGCCGCGGGTGGCA
NIH ACGCAGATACCATCTACAGCGGGCTGACCGCTACCGCTGCACACGGCCGCGGGTGGCA

Spretus/Ei CAGTGACCTTGGTATCGGCCTGCTGCTGCGCCACTTCGATCGCTATGGAGTGGAGTGT
NIH CAGTGACCTTGGTATCGGCCTGCTGCTGCGCCACTTCGATCGCTATGGAGTGGAGTGT

Spretus/Ei GAGGGACTTCATTGCTACTAATCGCCATCATCCACTGAGCACATAATGGCACAGCAGTGA
NIH GAGGGACTTCATTGCTACTAATCGCCATCATCCACTGAGCACATAATGGCACAGCAGTGA

c-Myc

Spretus/Ei AGCAGGCACGTGGACTCTGGAGACTGTCAGTCTTGATCACCCCAAGTCATGGCCCCAT
NIH AGCAGGCACGTGGACTCTGGAGACTGTCAGTCTTGATCACCCCAAGTCATGGCCCCAT

Spretus/Ei GCCATGGACTGCAAGGCCAGGAACTCCCCGTGGGCCATGCTCCACTGAACTACTGGGATA
NIH GCCATGGACTGCAAGGCCAGGAACTCCCCGTGGGCCATGCTCCACTGAACTACTGGGATA

Spretus/Ei GAAAGGGCTGTGGGTGGAGGGACATGAGCAGGGCCACTGTTTGGACTGTCGGGGGCAC
NIH GAAAGGGCTGTGGGTGGAGGGACATGAGCAGGGCCACTGTTTGGACTGTCGGGGGCAC

Spretus/Ei TTAATAAAAAGCGTGATTTCTCATGGGTAAGGTGCCTCCTTGTATCCGCTAAAGCTCTCA
NIH TTAATAAAAAGCGTGATTTCTCATGGGTAAGGTGCCTCCTTGTATCCGCTAAAGCTCTCA

Spretus/Ei GACGTCGGTCTCCTTATTTCACTCTCCTTGACACTCTCATCCGCAAAGTCTGCCCTGCC
NIH GACGTCGGTCTCCTTATTTCACTCTCCTTGACACTCTCATCCGCAAAGTCTGCCCTGCC

Spretus/Ei TTTTCGCTCTCCACCGCTAGGTCCCCACTTCTAATACAGGACTCTGTTTTCTCACGAAGT
NIH TTTTCGCTCTCCACCGCTAGGTCCCCACTTCTAATACAGGACTCTGTTTTCTCACGAAGT

Spretus/Ei CCCAATTTTTCTTTGACCCTTCAACAACCTCCCAAATCCACCGGGGCGCTTTGGTTGGTC
NIH CCCAATTTTTCTTTGACCCTTCAACAACCTCCCAAATCCACCGGGGCGCTTTGGTTGGTC

Spretus/Ei ACCGGCTTTAGTAGTGCTCCGCCGCCAGGAGGCAGCACCCCTGGAGGTGGGGCGAGGCCGG
NIH ACCGGCTTTAGTAGTGCTCCGCCGCCAGGAGGCAGCACCCCTGGAGGTGGGGCGAGGCCGG

SP-1

SP-1

Spretus/Ei GGTGCCCCGCCCCCTCCCCGCAGGGCTGAAGGGACCCCTTGGAGCCCGCCCACGCTAAG
NIH GGTGCCCCGCCCCCTCCCCGCAGGGCTGAAGGGACCCCTTGGAGCCCGCCCACGCTAAG

AP-2

SP-1

Spretus/Ei ATGAAGACAGTGCCCCCATGCCCTCCCCCTGGGGCTGCCCCGCCCCGCGCGCGCTTC
NIH ATGAAGACAGTGCCCCCATGCCCTCCCCCTGGGGCTGCCCCGCCCCGCGCGCGCTTC

AP-2

SP-1

└─▶ T1

Spretus/Ei CTGGGTGGGGCCGGGGCGGCTTCAAAAACCCCGCCGCCAGCCGGTCCC GCCGCCGCC
NIH CTGGGTGGGGCCGGGGCGGCTTCAAAAACCCCGCCGCCAGCCGGTCCC GCCGCCGCC

SP-1

AP-2

Spretus/Ei CCGCCCTTCGCGCCCAGGCCGTCCCCCTCCTCCTCCCGCCGCGGATCCTCCAGACAGCC
NIH CCGCCCTTCGCGCCCAGGCCGTCCCCCTCCTCCTCCCGCCGCGGATCCTCCAGACAGCC

Spretus/Ei AGGCCCCCGGCCGGGGCAGGGGGACGCCCTTCGGGGCACCCCGGCTCTGAGCCGCAC
NIH AGGCCCCCGGCCGGGGCAGGGGGACGCCCTTCGGGGCACCCCGGCTCTGAGCCGCAC

Spretus/Ei TCGGAGTCGGCCTCCGCTGGGAGCCGGCAAAGGAGCAGCCGAGGAGCCGTCCGAGGCCCC
NIH TCGGAGTCGGCCTCCGCTGGGAGCCGGCAAAGGAGCAGCCGAGGAGCCGTCCGAGGCCCC

Spretus/Ei AGAGTCTGAGACCAGCCGCCCGCAGGGAGGAGGGGAGGAGGAGTGGGAGGAGGGACG
NIH AGAGTCTGAGACCAGCCGCCCGCAGGGAGGAGGGGAGGAGGAGTGGGAGGAGGGACG

└─▶ T2

Spretus/Ei AGCTGGTTGAGAGAAAGAGGAAAAAAGTTTTGAGACTTTTCCGCTGCTACTGCAAGTCAGA

AGCTGGTTGAGAGAAGAGGAAAAAAGTTTGTGACTTTTCCGCTGCTACTGCAAGTCAGA
 Spretus/Ei GACGTGGGGACTTCTTGGCACTGCGCTGTCTCGCAAGGAGGCAGGACCTGAGGACTCCAG
 NIH GACGTGGGGACTTCTTGGCACTGCGCTGTCTCGCAAGGAGGCAGGACCTGAGGACTCCAG

c-Myc PU.1 box

Spretus/Ei ACAGCCCTGCTCACCGTCGTGGACACTCGATCGCTACCCGGCGTTCCACAGACGCCCTA
 NIH ACAGCCCTGCTCACCGTCGTGGACACTCGATCGCTACCCGGCGTTCCACAGACGCCCTA

Spretus/Ei TTCCGGACCAGCCCTCGGGAGCCACAAACCCCGCCTCCCGCGAAGACTTCACCCCAAAGC
 NIH TTCCGGACCAGCCCTCGGGAGCCACAAACCCCGCCTCCCGCGAAGACTTCACCCCAAAGC

SP-1 AP-2

Spretus/Ei TGGGGCGCACCCCTTGACGCGCCCTCCCCCAGCCTGCCTCTTGAGTCCCTCGCATCC
 NIH TGGGGCGCACCCCTTGACGCGCCCTCCCCCAGCCTGCCTCTTGAGTCCCTCGCATCC

Spretus/Ei CAGGACCCTCTCTCCCCGAGAGGCAGATCTCCCTCGGACCTGCTGGCAGTAGCTCCCT
 NIH CAGGACCCTCTCTCCCCGAGAGGCAGATCTCCCTCGGACCTGCTGGCAGTAGCTCCCT

Spretus/Ei ATTTAAGAACACCCACTTTTGGATCTCAGAGAGCGCTCATCTCGATTTTTTACCCCTGGTG
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ETF

ETF

Spretus/Ei CCTCAAATTATTCAGGACTATCACCTACCTTTCTTGGGAGACCCACCCACCCACCCAC
 NIH CCTCAAATTATTCAGGACTATCACCTACCTTTCTTGGGAGACCCACCCACCCACCCAC

SP-1

Spretus/Ei ACAAGCCCTGCAGGGGCGGGCCTCCGCATCCACCTTTGCCAGGGTTCGCTCTCCG
 NIH :AAGCCCTGCAGGGGCGGGCCTCCGCATCCACCTTTGCCAGGGTTCGCTCTCCG

START |→intron 1

Spretus/Ei AAGTGCCGTGGGGCGCCGCTCCCCATG...GTGAGCTCCGAGGGGCCGGGAGCCAGGAGG
 NIH AAGTGCCGTGGGGCGCCGCTCCCCATG...GTGAGCTCCGAGGGGCCGGGAGCCAGGAGG

Spretus/Ei GAGCCCCAGGGGCGCCGGAGTGCAGGGGTACCCGGGAGGAAATTACCTCAGAGGAAA
 NIH GAGCCCCAGGGGCGCCGGAGTGCAGGGGTACCCGGGAGGAAATTACCTCAGAGGAAA

Spretus/Ei CTGGCTGGAGGAAGGGAGCCCTGGGGGCACCGGGACAACCTGTGTGGGTGTCCCAAAGAG
 NIH CTGGCTGGAGGAAGGGAGCCCTGGGGGCACCGGGACAACCTGTGTGGGTGTCCCAAAGAG

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 NIH GCTGGCACTTTCCCGTACCCAGGTGTCT:::TTGAGAGGAATAGACAGCCTGCCAAA

Spretus/Ei GTGATCCTCTCCTAGAAAAGCAAGATCGTGGGGAGAGTCCCCTCTAGAAGAGGAGCATTT
 NIH GTGATCCTCTCCTAGAAAAGCAAGATCGTGGGGAGAGTCCCCTCTAGAAGAGGAGCATTT

Spretus/Ei GGCAGGTTTTGTTTTAAGTTCCCCTAATGGTGCCTAAAAATGCAGGGCTCGCTGGGTGGT

NIH GGCAGGTTTTGTTTTAAGTTCCCCTAATGGTGCCATAAAAATGCAGGGCTCGCTGGGTGGT

Spretus/Ei CTCTTTCCAGAAAGGTAGAACCCAGCTCAAGAGAATGGAAGGTGTCCAACATTTTCGGAAT
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Spretus/Ei GGAGATGCAATGTGGAAAGCCGACCCCAGACCGGGTCGTGAGATGGAGAGAAAACCTAGG
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Spretus/Ei GGATGGGTACCCTAGAACTGCCAAATAAAAATCTC
NIH