

Jan 30 2008

Lab exercise 3

The followings are part of predicted results of Genescan based on a query of chimp DNA.

Use UCSC browser and other tools to figure out whether each of these 3 predicted genes are real; if so, describe:

- How many exons
- The encoding protein and its function

>Unknown|GENSCAN_predicted_peptide_2|144_aa
MELQEIQLKEAKHIAEEADRKYEEVPRKLVIIEGDLECTEERAELAESRCQETDEQIRL
MDQNLKCLSDAEEKYSQKEDIYEEEEIKILTDKLKEAETRAEFTERLVAKLEKTTDDLEY
KLKCNKEENLCTQRMLYQTLDDLNEM

>Unknown|GENSCAN_predicted_CDS_2|435_bp
atggaactccaggaaatccaactcaaagaagctaagcatattgcagaagaggcagatagg
aaatatgaagagggtgcctcgtaagttggtgatcattgaaggagacttggaatgcacagag
gaacgagctgagctggcagagtcccgtgccaagagacagatgagcagatcagactgatg
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tatgaggaagagatcaagattctcactgacaaactcaaggaggcagagacccgtgctgag
tttactgagagattggtagccaagctggaaaagacaactgatgacttggaatataaactg
aaatgcaacaagaggagaacctctgtacacaaaggatgctgtaccagactctgcttgac
ctgaatgagatgtag

>Unknown|GENSCAN_predicted_peptide_3|137_aa
MGQPHSTKCILSHLLQLVVTGFRGCCDDQNKGRFDGPEAQEEACSGKRQTYQELLV
NQNPVQPLASRRLTRNLYKCIKKAMKQKQLRRGVKEVQKFVNRGEKGMVLAEDT
LPIEVYCHLPVMCEDRNLAYVSIPLR

>Unknown|GENSCAN_predicted_CDS_3|414_bp
atgggtcagccccattctacaaatgtattctttccatttgctccagctggtgtaaca
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atgaagcagaagcagcttcggcgtgggggtgaaagaggttcagaaattgtcaacagagga
gaaaaagggatcatggtttggcagaagacacactgccattgagggtatactgccatctt
ccagtcattgtgaggaccgaaatctggcctatgtctctatccctctaagatga

>Unknown|GENSCAN_predicted_peptide_4|140_aa

MLLLSRPGPAQVHPEARSLOAREEPGCCSLRALPGAQEAGETERRRWVKNSEGSRRS
CGISSRSCRSLAGRGQALVPPARSPQPQQSRSSRGRRCPSDSIARADLFPSTLQTPA
HPKGGKTPSVPQNGKIPVHTLPEPCC

>Unknown|GENSCAN_predicted_CDS_4|423_bp
atgctgctccttcccggcccgaccggcgcaggtccatccagaggcgcgaagcctgcag
gccaggggaagagcccggatgctgctcccttcgtgctctgcctggggcccaggaagcagga
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tga