Number of mutations in Gene3375 of D. MeLanogaster as a measure of reLatedness

Aim: To measure reLatedness by counting tHe mutations in Gene3375 of D. MeLanogaster

Experiment:

1. Compare eacH species and count tHe number of mutations from Base
2. Write tHe <u>most reLated</u> species

Data:

Parent:
TTTGACTCGCGAAGCACAGGGGCCCCGTACCTACCTAACCAGTAGCCGCCTAGTGTGTGGGATTGGGGCCTTGGT
CTCCCTTAAACGAGCGTTAACGCACATTCCAAATGAGATGTGCCCTACTAAGTCATCGAATCTTAATTCTAAACGGC
CGGGCAATTAGCCTCGTCTGCTGCTTTACTGTTCGGCATGATCGAAGT

Sp1:
TCTGACTCCCGGAGCACAGGGGACCAGTCGCGACCCAAACAGTAGCCGCCCAGCGTATGGGATTGGGGCCTAGA
TCTTCCTTATAGGAACATAATCGCACATTCAAAATGAGATGTTCTTTACGAAGTCAACGAATCTTAATTATATACTG
ACTGGCTACCAGCCTCATCGACTGCATTATTGTTCGGCATGACCGAAGA

Sp2:
TTTGACTCGCGAAGAACAGGGGCCCTGTACCTACCTAACCAGTAGCCGCCTAGTGTGTGGGATTGGGGCCTTGGT
CTCCCTTAAACGAGCGTTAACGCACATTCCAAATGAGATGTGCCCTACTAAGTCATCGAATCTTAATTCTAAACGCC
CGGCCCATTAGCCTCGTCTGCTGCTTTACTGTTCGGCATGATAGAAGT

Sp3:
TTCGTCTCGCGAAGCACGGGGGCCCAGTATCTCCCTAACCACGACCAGCGGTGTATGTGTGCTATGCCTAGATGTA
TTCCCTAAAGGATAATTCACACGCATTACAAAGGCTATCTAAACTGCTGAGTCAGAGTACAGGAACTCAGAGAAAC
CAGATAGGTAGCCGCTTCTGCTGCTCTCCTGTTCATGGTGACCCCACC

Sp4:
TTTGACTCGGGAAGCACAGGGGCCCCGTACCTAGCTAGCCAGTATCCGCCTAGTGTCTGGGATTCCGGCATTGGTC
TCCCTTAACCGAGCGTTAACGCACATTCGAAATTAGATGTGACCTAATTAGTCATCGAATCTTAATTCTAAAGGGCC
GGGCAATTAGACTCGTCGGTTGCTTTACTGTTCGGCACGATCGAAGT

Sp5:
TTTGACTCGCGAAGCAGAGTCGCCCCGGACCTTCCTACCTAGTAGTCGCCTAATGTATGGGACTGGGCCCTTGGTC
GCCCCTAATCGAGCGTTAACGCACATTCCAAATTAGATGCGGCCTACTAAGTCATTGAATCTGAAATCCAAACGGC
CGGGCACTTACCCTCGTCAGCTGCTATATTGTTCGGCATGATCGAAGT

Sp6:
TTTGACTAGCGAAGGACGGTGGGACGGCAACAACATAATCATTCGCGAGTTAATGTCTGGGGCTGCGGCGTGGTC
GTTTATTAAAGGAGCGGTAACGAACATTCCAAATACGGTGTGAACTAGAATGTCAACGAAACTCGGTGCATAACT
ACCGGACAATTCGCCGGTTCAACGGCGTAACTGTTTGTCAAGAACCTAGA

Sp7:

ATATACTCGCCAGGCACGGATGCCAAATGGCTCCCTAGGAGGCAGCCCCATATTGGGTGCGATTGGGGCCTTAAA
CTCCGTTAAACGAGCGTTGAGGCAGGTTCTACATGACATGTGCCATACTAAGTAATCGAACCTTAATTCTATAAGC
TACTGGACCTAGCCTCGTTGTCTTCGTCACTGCCGGGCCTGATCGGATA

ResuLt:

The most related species is: _____