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THWA03 C pseudogracilis SANGER
THWA01 C pseudogracilis SANGER
THWA02 C pseudogracilis SANGER
BOURN2A C pseudogracilis SANGER HCO2198
CHASE412 C pseudogracilis SANGER
M53M0I2D C floridanus SANGER
F53M0I2C C floridanus SANGER
FCHASE203 C floridanus SANGER
M53M0I2A C floridanus SANGER
M53M0I2B C floridanus SANGER
MCHASE101 C floridanus SANGER LC01490
MCHASE203 C floridanus SANGER
CHASE103 C floridanus SANGER
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## logo

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THWA03 C pseudogracilis SANGER
THWA01 C pseudogracilis SANGER
THWA02 C pseudogracilis SANGER
BOURN2A C pseudogracilis SANGER HCO2198
CHASE412 C pseudogracilis SANGER
M53M0I2D C floridanus SANGER
F53M0I2C C floridanus SANGER
FCHASE203 C floridanus SANGER
M53M0I2A C floridanus SANGER
M53M0I2B C floridanus SANGER
MCHASE101 C floridanus SANGER LC01490
MCHASE203 C floridanus SANGER
CHASE103 C floridanus SANGER
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## logo

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THWA03 C pseudogracilis SANGER
THWA01 C pseudogracilis SANGER
THWA02 C pseudogracilis SANGER
BOURN2A C pseudogracilis SANGER HCO2198
CHASE412 C pseudogracilis SANGER M53M0I2D C floridanus SANGER
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THWA03 C pseudogracilis SANGER
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M53M0I2B C floridanus SANGER
MCHASE101 C floridanus SANGER LC01490
MCHASE203 C floridanus SANGER
CHASE103 C floridanus SANGER
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TACATCATTCTTTGATCCATCAGGAGGTGGAGACCCTATTCTATATCAACATCTTTTT TACATCATCTTTTGATCCATCAGGAGGTGGAGACCCTATTCTATATCAACATCTTTTT
                                                                            657
    TACATCATTCTTTGATCCATCAGGAGGTGGAGACCCTATTCTATATCAACATCTTTTT
                                                                            642
    TACATCATTCTTTG.....
                                                                            598
    TACATCATTCTTTGATCCATCAGGAGGTGGAGACCCTATTCTATATCAACATCTTTTT
                                                                            658
    {\tt TACATCATTCTTTGA\overline{C}CC\overline{T}TC\overline{T}GG\overline{G}GG\overline{G}GG\overline{T}GACCCTAT\overline{C}\overline{T}T\overline{G}TA\overline{C}CA\overline{G}CATCT\overline{C}TTT}
                                                                            658
     TACATCATTCTTTGACCCTTCTGGGGGGGGTGACCCTATCTTGTACCAGCATCTCTTT
                                                                            658
                                                                            561
     TACATCATTCTTTGACCCTTCTGGGGGGGGGTGACCCTATCTTGTACCAGCATCTCTTT
                                                                            642
    TACATCATTCTTTGACCCTTCTGGGGGGGGTGACCCTATCTTGTACCAGCATCTCTTT
                                                                            642
                                                                            406
    TACATCATTCTTTGACCCTTCTGGGGGGGGGTGACCCTATCTTGTACCAGCATCTCTTT
                                                                            643
601 TACATCATTCTTTGACCCTTCTGGGGGGGGGTGACCCTATCTTGTACCAGCATCTCTTT
                                                                            658
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non conserved

 $\overline{X} \geq 40\%$  conserved

CTACTTTATTTAGGGGCCTGAGCCAGAGCTGTTGGTACAGCCTTAAGCATAATTATCCGAACCGCCAGCAACACCAGGAAATATTATTGAAGACGATCAAATTTACAATGTTATAGTAACAGCCCATGCTTTGTTATAATTTTTTTATGGTTATACCCATCATGATTGGAGGGTTTGGTAACTGACTAG ......TTAGGGGCCTGAGCCAGAGCTGTTGGTACAGCCTTAAGCATATTATCCGAATCGAACAGCCAGGAATATTATTGAAGACGATCAAATTTACAATGTTATAGTAACAGCCCATGCTTTGTTATAATTTTTTTATGGTTATACCCATCATGATTGGTAACTGACTAGCTAACTGACTAG