

matrix	
spixii	CCCT[A]AAAAGTCCTTTAAATACAAAGGTT
didymu	CCCT[A]AAAAGTCCTTTAGACACAAAGGTT
fuscus	CCCT[A]AAAAGTCCTTTAGACACAAAGGTT
myceus	CCCT[-]AAAAGTCCTTTAAATACAAAGGTT
notoak	CCCT[A]AAAAGTCCTTTAAATACAAAGGTT
elenae	CCCT[A]AAAAGTCCTTTAAATACAAAGGTT
tacinu	CCCT[A]AAAAGTCCTTTAAATACAAAGGTT
spixii	TGGTCCTGACCTTAAAATCAATTTT[T]ACTTAACTTACACATGCAAGTCTC
didymu	TGGTCCTGACCTTAAAGTCAATTTT[T]ACTTAACTTACACATGCAAGTTTC
fuscus	TGGTCCTGACCTTAAAATCAATTTT[T]ACTTAACTTACACATGCAAGTCTC
myceus	TGGTCCTGACCTTAAAATCAATTTT[T]ACTTAACTTACACATGCAAGTCTC
notoak	TGGTCCTGACCTTAAAATCAATTTT[T]ACTTAACTTACACATGCAAGTCTC
elenae	TGGTCCTGACCTTAAAATCAATTTT[-]ACTTAACTTACACATGCAAGTCTC
tacinu	TGGTCCTGACCTTAAAATCAATTTT[T]ACTTAACTTACACATGCAAGTCTC
spixii	AGCACCCCTGTGAGAACGCCCTTTAACTCCCGTTA[-]GGAACAAGGAGCTG
didymu	CGCACCCCTGTGAGAACGCCCTTAAACCCCTCAA[A]GGGGCAAGGAGCTG
fuscus	CGCACCCCTGTGAGAACGCCCTCAAACCCCTAAAA[-]GGGACGAGGAGCTG
myceus	AGCACCCCTGTGAGAACGCCCTTTAACTCCCGTTA[-]GGAACAAGGAGCTG
notoak	AGCACCCCTGTGAGAACGCCCTTTAACTCCCGTTA[-]GGAACAAGGAGCTG
elenae	AGCACCCCTGTGAGAACGCCCTTTAACTCCCGTTA[-]GGAACAAGGAGCTG
tacinu	AGCACCCCTGTGAGAACGCCCTTTAACTCCCGTTA[-]GGAACAAGGAGCTG
spixii	GTATCAGGCACAACCTTTAGCCCAAGACACCTAGCTACGCCACACCCACA
didymu	GTATCAGGCACAAAATTTTAGCCCAAGACACCTAGCTATGCCACACCCACA
fuscus	GTATCAGGCACAACATTTAGCCCAAGACACCTAGCCATGCCACACCCACA
myceus	GTATCAGGCACAACCTTTAGCCCAAGACACCTAGCTACGCCACACCCACA
notoak	GTATCAGGCACAACCTTTAGCCCAAGACACCTAGCTACGCCACACCCACA
elenae	GTATCAGGCACAACCTTTAGCCCAAGACACCTAGCTACGCCACACCCACA
tacinu	GTATCAGGCACAACCTTTAGCCCAAGACACCTAGCTACGCCACACCCACA
spixii	AGGGAATTCAGCAGTGATTAACATTGAATATAAGCGCCA[G]CTTGATTGAG
didymu	AGGGAGATCAGCAGTGATTAACATTGAATATAAGCGACA[G]CTTGATTGAG
fuscus	AGGGAAATCAGCAGTGATTAACATTGAATATAAGCGACA[G]CTTGATTGAG
myceus	AGGGAATTCAGCAGTGATTAACATTGAATATAAGCGCCA[G]CTTGATTGAG
notoak	AGGGAATTCAGCAGTGATTAACATTGAATATAAGCGCCA[G]CTTGATTGAG
elenae	AGGGAATTCAGCAGTGATTAACATTGAATATAAGCGCCA[-]CTTGATTGAG
tacinu	AGGGAATTCAGCAGTGATTAACATTGAATATAAGCGCCA[G]CTTGATTGAG
spixii	TTAAAGTAAAAAGAGCCGGCTAATCTGGTGCCAGCCGCCGCGGTTACACC
didymu	CCAAAGTAAAGAGAGCCGGCTAATCTGGTGCCAGCCGCCGCGGTTACACC
fuscus	TTAAAGTAAAGAGAGCCGGCTAATCTGGTGCCAGCCGCCGCGGTTACACC
myceus	TTAAAGTAAAAAGAGCCGGCTAATCTGGTGCCAGCCGCCGCGGTTACACC
notoak	TTAAAGTAAAAAGAGCCGGCTAATCTGGTGCCAGCCGCCGCGGTTACACC
elenae	TTAAAGTAAAAAGAGCCGGCTAATCTGGTGCCAGCCGCCGCGGTTACACC
tacinu	TTAAAGTAAAAAGAGCCGGCTAATCTGGTGCCAGCCGCCGCGGTTACACC
spixii	ACGTGGCTCAAATTGATTTTGCTCGGCGTAAAGCGTGATTTAAGAGATCA
didymu	ACGAGGCTCAAATTGACATTTTCCGGCGTAAAGCGTGATTTAAGTGACAA
fuscus	ACGTGGCTCAAATTGATTTTGATCGGCGTAAAGCGTGATTTAAGAGATTC
myceus	ACGTGGCTCAAATTGATTTTGCTCGGCGTAAAGCGTGATTTAAGAGATCA
notoak	ACGTGGCTCAAATTGATTTTGCTCGGCGTAAAGCGTGATTTAAGAGATCA
elenae	ACGTGGCTCAAATTGATTTTGCTCGGCGTAAAGCGTGATTTAAGAGATCA
tacinu	ACGTGGCTCAAATTGATTTTGCTCGGCGTAAAGCGTGATTTAAGAGATCA
spixii	ATTCAT[-]GGTGTCAAAAAAGCACTAAGCTGTGACACGCTTGTGCCTCAGA

didymu AGTTCT [-] GGTGTTAAAAAGCACTAAGCTGTGACACGCTTGTGCCCAAGA
fuscus CTCTTT [T] GGTGTCAAAAAGATACTAAGCCGTGACACGCTTGTATTCAAGA
myceus ATTCAT [-] GGTGTCAAAAAGCACTAAGCTGTGACACGCTTGTGCCTCAGA
notoak ATTCAT [-] GGTGTCAAAAAGCACTAAGCTGTGACACGCTTGTGCCTCAGA
elenae ATTCAT [-] GGTGTCAAAAAGCACTAAGCTGTGACACGCTTGTGCCTCAGA
tacinu ATTCAT [-] GGTGTCAAAAAGCACTAAGCTGTGACACGCTTGTGCCTCAGA

spixii AGCCAGAAACGAAAGCTACACCAATATTACCCACTTGAACTCACGACAG
didymu AAACCAAAAACGAAAGTTACACCAATCAAATCAACTTGAACTCACGACAC
fuscus AGATCAGAAAACGAAAGTTACACCAACTTAATCAACTTGAGCTCACGACAG
myceus AGCCAGAAACGAAAGCTACACCAATATTACCCACTTGAACTCACGACAG
notoak AGCCAGAAACGAAAGCTACACCAATATTACCCACTTGAACTCACGACAG
elenae AGCCAGAAACGAAAGCTACACCAATATTACCCACTTGAACTCACGACAG
tacinu AGCCAGAAACGAAAGCTACACCAATATTACCCACTTGAACTCACGACAG

spixii CTTGGAAACAAACTGGGATTAGATACCCCACTATGCCTAGCCGTAAACTT
didymu CTGGGAAACAAACTGGGATTAGATACCCCACTATGCCAGCCGTAAACTT
fuscus TTAGGAAACAAACTGGGATTAGATACCCCACTATGCCTAACCGTAAACTT
myceus CTTGGAAACAAACTGGGATTAGATACCCCACTATGCCTAGCCGTAAACTT
notoak CTTGGAAACAAACTGGGATTAGATACCCCACTATGCCTAGCCGTAAACTT
elenae CTTGGAAACAAACTGGGATTAGATACCCCACTATGCCTAGCCGTAAACTT
tacinu CTTGGAAACAAACTGGGATTAGATACCCCACTATGCCTAGCCGTAAACTT

spixii TAAATTACACCT [--] CAAATCGCCTGGGAACTACGAGCCAAGCTTAAAACC
didymu TAATTTACACCT [--] TTAATCGCCC GGAACTACGAGCTAAGCTTAAAACC
fuscus TAATTTACACCT [--] TTTATCGCCC GGAACTACGAGCCAAGCTTAAAACC
myceus TAATTTACACCT [--] CTAATCGCCC GGAACTACGAGCTAAGCTTAAAACC
notoak TAATTTACACCT [--] CAAATCGCCC GGAACTACGAGCTAAGCTTAAAACC
elenae TAATTTACACCT [TA] CACATCGCCC GGAACTACGAGCTAAGCTTAAAACC
tacinu TAACTTACAACC [--] TAA-TCGCCTGGGAACTACGAGCTAAGCTTAAAACC

spixii CAAAGGACTTGACGGTACCCCAAATCCACCTAGAGGAGCCTGTCTTATAA
didymu CAAAGGACTTGACGGTACCCCAAATCCACCTAGAGGAGCCTGTCTTATAA
fuscus CAAAGGACTTGACGGTACCCCAAATCCACCTAGAGGAGCCTGTCTTATAA
myceus CAAAGGACTTGACGGTACCCCAAATCCACCTAGAGGAGCCTGTCTTATAA
notoak CAAAGGACTTGACGGTACCCCAAATCCACCTAGAGGAGCCTGTCTTATAA
elenae CAAAGGACTTGACGGTACCCCAAATCCACCTAGAGGAGCCTGTCTTATAA
tacinu CAAAGGACTTGACGGTACCCCAAATCCACCTAGAGGAGCCTGTCTTATAA

spixii TCGATAATCCCCGTTGAACCTCACCCTTCTTGTGTTTATCAGCCTGTATAC
didymu TCGATAACCCCCGTTTAACTCACCCTTCTTGTGTTTATCAGCCTGTATAC
fuscus TCGATAACCCCCGTTCAACCTCACCCTTCTTGTCTATCAGCCTGTATAC
myceus TCGATAACCCCCGTTAAACCTCACCCTCCTTGTCTATCAGCCTGTATAC
notoak TCGATAACCCCCGTTTAACTCACCCTCCTTGTCTATCAGCCTGTATAC
elenae TCGATAATCCCCGTTTAACTCACCCTTCTTGTGTTAATCAGCCTGTATAC
tacinu TCGATAATCCCCGTTAAACCTCACCCTTCTTGTGTTAATCAACCTGTATAC

spixii CTCCGTCGCCAGCTTACCGCGTGAGCGCC [AC] TAAGTGAGCT [T] AATGCCCA
didymu CTCCGTCGCCAGCTTACCGCGTGAGCGCC [A-] TAAGTGAGCC [T] AACGCCCT
fuscus CTCCGTCGCCAGCTTACCGCATGAGCGTT [-T] TAAGTGAGCC [-] AATGCCCA
myceus CTCCGTCGCCAGCTTACCGCGTGAGCGCT [AT] TAAGTGAGCT [T] AATGCCCA
notoak CTCCGTCGCCAGCTTACCGCATGAGCGCC [AC] TAAGTGAGCT [T] AACGCCCA
elenae CTCCGTCGCCAGCTTACCGCGTGAGCGTC [A-] TAAGTGAGCT [T] AATGCCCA
tacinu CTCCGTCGCCAGCTTACCGCATGAGCGTT [AT] TAAGTGAGCC [T] AATGCCCA

spixii TACGCCAATACGTCAGGTCAAGGTGCAGCTAATGAAGTGGAAAGAGATGG
didymu TACGCCACACGTCAGGTCAAGGTGCAGCTAATGGAGTGGGAGAGATGG
fuscus TACGCCAACACGTCAGGTCAAGGTGCAGCTAATGAAGTGGGAAAGAGATGG

myceus TACGCCACACGTCAGGTCAAGGTGCAGCTAATGAAGTGGGAAGAGATGG
notoak TACGCCACACGTCAGGTCAAGGTGCAGCTAATGAAGTGGGAAGAGATGG
elenae TACGCCAACACGTCAGGTCAAGGTGCAGCTAATGAAGTGGGAAGAGATGG
tacinu CACGCCAATACGTCAGGTCAAGGTGCAGTTTATGAAGTGGGAAGAGATGG

spixii GCTACACTTTCTACTATAGAAAAA [-] CGAAAGACTACCCATGAAATCTAG
didymu GCTACACTTTCTACTATAGAAAAA [-] CGAAAGACTACCTATGAAATCTGG
fuscus GCTACACTTTCTACCCTAGAAAAA [A] CGAAAGACTACCTATGAAATCTAG
myceus GCTACTCTTTCTACCATAGAAAAA [-] CGAAAGACTATCTATGAAATCTAG
notoak GCTACACTTTCTACTGTAGAAAAA [-] CGAAAGACTACCTATGAAATCTAG
elenae GCTACACTCTCTAACATAGAAAAA [-] CGAAAGACTACCTATGAAATCTAG
tacinu GCTACACTTTCTACCTTAGAAGAAA [-] CGAAAGACTACTTATGAAATCTAG

spixii TCAGAAG
didymu TCAGAAG
fuscus TCAGAAG
myceus TCAAAAG
notoak TCAGAAG
elenae TCAGAAG
tacinu TCAGAAG

spixii ATCATCATGGTCCGTTAAGA [N] ATATTAATATCTTGAAAAATACAATTTTG
didymu GAGATCATGGTTCGTTAAGA [T] ATGAAAAATATCTTGAAAAATACAATTTTG
fuscus GNAACATGGCTCNTTAAGA [T] ATTAGAATATCTTGAAAAATACAATTTTG
myceus GAAATCATGGTTCGTTAAGA [T] ATGAAAAATATCTTGAAAAATACAATTTTG
notoak GAAATCATGGTTCGTTAAGA [T] ATGAAAAATATCTTGAAAAATACAATNTG
elenae GATATCATGGTCCGTTAAGA [T] ATGAAGATATCTTGAAAAATACAATTTTG
tacinu GGGATGATGGTTCGTTAAGA [T] ATAAAAATATCTTGAAAAATACAATTTTG

spixii ATCATT [-] GTTCTTCTTGGGG [G] AAGAGAAA [N] TACGTTTCGTATTCANTCAAT
didymu ATCATT [-] GTTCTTCATGGGG [-] AAGAGAAA [T] TACGTTTCGTATTTANTCAGT
fuscus ATCATT [-] GTTCTTCTTGGTG [-] AAGAGAAA [A] TACGTTTCGAATTCGGTTCGTT
myceus ATCATT [-] GTTCTTCTTGGGG [-] AAGAGAAA [T] TACGCTCGTATTTAGTCAGT
notoak ATCATT [-] GTTCTTCTTGGGG [-] AAGAGAAA [T] TACGTTTCGTATTTANTCANT
elenae ATCATT [T] GTTCTTCATGGGG [-] AAGAGAAA [T] TACGCTCGTATTTAGTCGAT
tacinu ATCATT [-] GTTCTTCTTGGGG [-] AAGAGAAA [T] TACGTTTCGTATTTAGTCGGT

spixii CCTGGTTGGCGACTGTTAATTTGAGTACTCAAGT [N] TCATTTTTGTGATG
didymu CCTGGTTGGTACTATTAATTTGTTGGTACTCGGAT [G] TCATCTTTGTGGTG
fuscus CCTGGTTGGTACTGTTAATTTGAGGACTCAGGT [A] TCATTTTTGTTATG
myceus CCTGGTTGGTACTATTAATTTGTTGGTACTCTGGT [G] TCATCTTTGTGGTG
notoak CCTAGTTGGTACTATTAATTTGTTGGTACTCGGGT [G] TCATTTTTGCGGTG
elenae CCTGGTTGGTACTATTAATTTGTTGTAAGTACTCAGTT [G] TCATCTTTGTGGTG
tacinu CCTGGTTGGTACTATTAATTTGTTGATACTTGATT [A] TCATTGTTGTGAAG

spixii TTCTTTTGGGATGATGTGGAATACAA [-] TTAGATTGTGTTCTCGTAATGTT
didymu TTCTATTGGGATGAAGTGGGCACAA [-] TTGGATTGTGTTCTCGTAATGTT
fuscus TTCTTTTGGGATGACAAATTTCTACAA [-] TTGGATTGTGTTCCCGTAAAGTT
myceus TTCTTTTGGGATGATGTGGGACACAA [-] TTGGATTGTGTTCTCGTAATGTT
notoak TTCTATTGGGATGATGTGAGGTACAA [-] TTGGATTGTGTTCTCGTAATGTT
elenae TTCTTTTGGGATGATGTGAATACAA [A] TTGGATTGTGTTCTCGTAATGTT
tacinu TTCTTTTGGGATGAAGTAGAATACAA [-] TTGGATTGTGTTCTCGTAATATT

spixii CTTTCTAAAT [T] TCTTTTCTTCCTTGAGCCGTTTGTAAATGGGGCGGACA
didymu CTATCTAATT [N] TCTTTTCTTCCTTGAGCCGTTTGTAAATGGGGCGGACA
fuscus CTTTCTAATT [T] TCTTTTCTTCCTTGAGCCGTTTGTAAATGGGGCGGACA

myceus CTTTCTAATT [T] TCTTTTTCTTCCTTGAGCCGTTTGTAATTGGGGCGGACA
notoak CTATCTAATT [N] TCTTTTTCTTCCTTGAGCCGTTTGTAATTGGGGCGGACA
elenae CTTTCTAATT [T] TCTTTTTCTTCCTTGAGCCGTTTGTAATTGGGGCGGACA
tacinu CTTTCTAATT [T] TCTTTTTCTTCCTTGAGCCGTTTGTAATTGGGGCGGACA

spixii AATGGTTTTGTAGCGGAGAACTAT [TT] GGATATTCTCCAGGTCGGACGGG
didymu AATGGTTTTGTAGCGGAGAACTAT [TT] GAATATTCTCCAGGTCGGACGGG
fuscus AATGGTTTTGTAGCGGAGAACTTT [--] GGATATTCTCCAGGTCGGACGGG
myceus AATGGTTTTGTAGCGGAGAACTGT [TT] GAATATTCTCCAGGTCGGACGGG
notoak AATGGTTTTGTAGCGGAGAACTAT [TT] GAATATTCTCCAGGTCGGACGGG
elenae AATGGTTTTGTAGCGGAGAACTAT [TT] GTGTATTCTCCAGGTCGGACGGG
tacinu AATGGTTTTGTAGCGGAGAACTAA [--] GATTATTCTCCAGGTCGGACGGG

spixii [-] TCACTGAGACAAGTTGCCGGCGCCATAGGATTGGCACGCTTCCATCGC [A]
didymu [-] TCACTGGGACAAGTTGCCGGCGCCATAGGATTGGCACGCTTCCATCGC [N]
fuscus [-] TCACTGAAACAAGTTGCCGGCGCCATAGGATTGGCACGCTTCCATCGC [A]
myceus [-] TCACTGAGACAAGTTGCCGGCGCCATAGGATTGGCACGCTTCCATCGC [A]
notoak [-] TCACTGAGACAAGTTGCCGGCGCCATAGGATTGGCACGCTTCCATCGC [A]
elenae [G] TCACTGAGACAAGTTGCCGGCGCCATAGGATTGGCACGCTTCCATCGC [A]
tacinu [-] TCACTGAAACAAGTTGCCGGCGCCATAGGATTGGCACGCTTCCATCGC [A]

spixii TTAGTGAACAAGAAAT [T-] ACTCCTGATCA [TACT] TACCGTGGTGCTCCA
didymu TTAGTGAACAAGAAAT [T-] ACTCCTGAACA [TACT] TACCGTGGTGCTCCA
fuscus TTAGTGAACAAGAAAT [T-] ACTCCTGATCA [TACT] TACCGTGGTGCTCCA
myceus TTAGTGAACAAGAAAT [T-] ACTCCTGATCA [NNNN] TACCGTGGTGCTCCA
notoak TTAGTGAACAAGAAAT [N-] ACTCCTGATCA [TACT] TACCNTGGTGCTCCA
elenae TTAGTGAACAAGAAAT [TT] ACTCCTGATCA [TACT] TACCGTGGTGCTCCA
tacinu TTAGTGAACAAGAAAT [T-] ACTCCTGATCA [TACT] TACCGTGGTGCTCCA

spixii ATATGACAGAGGAAAAAGATTAGTCACTTTGATTAGAAGGGCACTTCTCC
didymu ATATGACAGAGGAAAAAGATTAGTCACTTTGATTAGAAGGGCACTTCTTC
fuscus ATATGACAGAGGAAAAAGATTAGTCACTTTGATTAGAAGGGCACTTCTTC
myceus ATATGACAGAGGAAAAAGATTAGTCACTTTGATTAGAAGGGCACTTCTTT
notoak ATATGACAGAGGAAAAAGATTAGTCACTTTGATTAGAAGGGCACTTCTTTC
elenae ATATGACAGAGGAAAAAGATTAGTCACTTTGATTAGAAGGGCACTTCTTC
tacinu ATATGACAGAGGAAAGAGATTAGTCACTTTGATTAGAAGGGCACTTCTTC

spixii GCCCTTATTTTATATTCTGCTCTTCTGG [G] ATACCTCGAAATTTGTTTGT
didymu GCCCTTATTTTATATTCTGCTCTTCTGG [G] ATACCTCGAAATTTGTTTGT
fuscus GCCCTTATTTTATATTCTGCTCTTCTGG [G] ATACCTCGAAATTTGTTTAT
myceus GCCCTTATTTTATATTCTGCTCTTCTGG [G] ATACCTCGAAATTTGTTTAT
notoak GCCCTTATTTTATATTCTGCTCTTCTGG [G] ATACCTCGAAATTTGTTTAT
elenae GCCCTTATTTTATATTCTGCTCTTCTGG [G] ATACCTCGAAATTTGTCTAT
tacinu GCCCTTATTTGTATATTCTGCTCTTCTGG [N] ATACCTCGAAATTTGTTTAT

spixii ATGTTAACGGAGAAGAGT [A-] TTTTAAAGTCTTTTTTGTGAAGATAAATC
didymu ATGTGAACGGAGAGGGG [T-] TTTTAAAGTCTTCTGTTTATTAATGGGTC
fuscus ATGTTAACGGAGGAGATT [A-] TTTTAAAGTCTTTTCTGTGAAGATAAATC
myceus ATGTGGACGGAGAAATAG [--] TTTTAAAGTCTTCTGTTTATTAATGAGCC
notoak ATGTGGACGGGAAGGGTGG [TT] TTTTAAAGTCGTTTGTATTAATGGGTC
elenae ATGTTAACGGAGGTTATG [T-] TTTTAAAGTCTTTTATTTATGGGTAGGTC
tacinu ATGTTGACGGAAAGGATA [AA] ATTTTAAAGTCTTCTATTTGGTAATAAATC

spixii CGTGAAACTATATTTCAAATCCAACCCCACTGGGGCCCCATTTTTT [-] T
didymu CGTAAATTTATACTTCAAATCCAACCCCACTGGTGCCCTCGTTTTTT [-] T
fuscus CGTGAAACTATATTTCAAATCCAACCCCACTGGTGCCCTCGTTTTTT [-] T
myceus CGTGAAACTATATCGCAAATCCAACCCCACTGGTGCCCTCGTTTTTT [-] T
notoak CGTAAACTATATCGCAAATCCAACCCCACTGGTGCCCTCGTTTTTT [-] T

elenae CGTAAACTATATTTCAAAGCCAACCCACTGGTGCCTCGTTTTTTTA [A] T
tacinu CGTAAACTATATTTCAAATCCAACCCACTGGTGCCTCTTTTTTACA [-] T

spixii TGGAGGCGTCACTTTCCC [-] TGAA [AAA] GGGATT [T] GGTTCCTCCGGTGCAGGGGA
didymu TGGAGGCGTCGCTTGCCC [-] TCGA [AA-] GGGATT [T] GGCTCCCGGTGCTGGGG
fuscus TGGAGGCGTCACTTTCCC [C] GAAA [NGG] GGATTT [C] GGCTCCCGATGTTGGGA
myceus TGGAGGCGTCGCTTGCCC [-] TTAT [AAG] GGAATT [-] GGTTCCTCCGGTGTGGGG
notoak TGGAGGCTTTGCTTGCCC [T] TTAG [AAA] GGGATT [T] GGTTCCTCCGGTGTGGGG
elenae TGGAGGCGTTACTTTCCC [-] TTAA [AAT] GGGATT [T] GGTTCCTCCGGTGTGGGA
tacinu TGGAGGCGTTACTTGCCC [C] GAAG [GGG] GGAATT [-] GATTCTCGATGCTGGGA

spixii TTCTTAGTTATTTAACTGTGATTAAC [N] GGGTAAATT [-] AACTAG [-] TTACTT
didymu TTCATAGCTGATTAGCTGTGGTAAAC [T] GGGTATTT [A] AACTAG [-] TTACTT
fuscus TTCTTAGTTATTTAACTGTGATTAAC [T] GGGTAAATT [-] AACTAG [-] TTACTT
myceus TTCATAACTATTTAGTTGTGATTAAC [T] GGGTATTT [A] AACTGG [A] TTACTT
notoak TTCATAGCTATTTAGCTGTGATTAAC [T] GGGTATTT [A] AACTAG [-] TTACTT
elenae TTCATAGTTATTTAACTGTGATTAAC [T] GGGTATGT [G] AACTAG [-] TTACTT
tacinu TTCTTAGTTATTTAACTGTAGTAAAC [T] GGGTATTT [A] AACTAG [-] TTACTT

spixii GGTTC AATGGGATCCCTATT [-] GTCGCGTTAGGTGAAGTTCTCGGGGATAG
didymu GGTTC AATGGGATCCCTATT [-] GTCGCGTTAGGTGAAGTTCTCGGGGATAG
fuscus GGTTC AATGGGATCCCTATT [-] GTCGCGTTAGGTGAAGTTCTCGGGGATAG
myceus GGTTC AATGGGATCCCTATT [-] GTCGCGTTAGGTGAAGTTCTCGGGGATAG
notoak GGTTC AATGGGATCCCTATT [-] GTCGCGTTAGGTGAAGTTCTCGGGGATAG
elenae GGTTC AATGGGATCCCTATT [T] GTCGCGTTAGGTGAAGTTCTCGAGGATAG
tacinu GGTTC AATGGGATCCCTATT [-] GTCGCGTTAGGTGAAGTTCTCGGGGATAG

spixii CTGTTACCCAAATGC [-N] GGAGCTACAACCTAGTCCCATAGG [A] TCACCAC
didymu CTGTTACCCAAATGC [-N] GGAGCTACAACCAAGTCCCATAGG [-] TCACCAC
fuscus CTGTTACCCAAATGC [-T] GGAGCTACAACCTAGTCCCATAGG [A] TCACCAC
myceus CTGTTAACC AATGC [CT] GGAGCTACAACCTAGTCCCATAGG [G] TCACCAC
notoak CTGTTACCCAAATGC [-T] GCAGCTACAACCTAGTCCCATAGG [G] TCACCAC
elenae CTGTTTACC AATGC [-T] GGAGCTACAACCTAGTCCCATAGG [G] TCACCAC
tacinu CTGTTACCCAAATGC [-T] GGAGCTACAACCTAGTCCCACAGG [G] TCACCAC

spixii GTCGGCGATGATTA
didymu GTCGGCAATGATTG
fuscus GTCGGCGATGATTG
myceus GTCGGCGATGAATT
notoak GTCGGCAATGATTG
elenae GTCGGCGATGATTG
tacinu CTCGGGGATAGCTG

spixii [NNNNNNNNNNNNNNN] AC [T] AACGGT [T] CGTTTGTACAACGATTTAAAACCTA
didymu [AGTGGTGCAGC-GCT] AC [T] AACGGT [T] CGTTTGTTC AACGATTTAAAACCTA
fuscus [AGTGGTGCAGCCGCT] AC [T] AATGGT [T] CGTTTGTTC AACGATTTAAAACCTA
myceus [NNNNNNNNNNNNGAC] AC [-] AACGGG [-] CGTTTGGGCACCGCTTTAAAACCTG
notoak [AGTGGTGCANC-GCT] AC [T] AACGGT [T] CGTTTGTTC AACGATTTAAAACCTA
elenae [AGTGGTGCAGC-GCT] AC [T] AACGGT [T] CGTTTGTTC AACGATTTAAAACCTA
tacinu [AGTGGTGCAGCCGCT] AC [T] AACGGT [T] CGTTTGTTC AACGATTTAAAACCTA

spixii CG [T] GATCTGAGTACAGACCGGAGTAATCCAG [-] TCAGTTTCTATCTATAAA
didymu CG [T] GATCTGAGTTCAGACCGGAGTAATCCAG [G] TCAGTTTCTATCTATAAA
fuscus CG [T] GATCTGAGTTCAGACCGGAGTAATCCAG [G] TCAGTTTCTATCTATAAA
myceus CG [N] CATCTGTGTGCAGCCCGGAGTAATCCAG [G] TCAGTTTCTATCTGTAAAC
notoak CG [T] GATCTGAGTTCAGACCGGAGTAATCCAG [G] TCAGTTTCTATCTATAAA
elenae CG [T] GATCTGAGTTCAGACCGGAGTAATCCAG [G] TCAGTTTCTATCTATAAA
tacinu CG [N] GATCTGAGTTCAGACCGGAGTAATCCAG [G] TCAGTTTCTATCTATAAA

spixii GAGCTTTTTCTAGTACGAAAGGACCGAAAAAGCACGGGCCATAC [T] TA [-] AC
didymu GAGCTTTTTCTAGTACGAAAGGACCGAAAAAGCACGGGCCATAC [T] TA [-] AC
fuscus GAGCTTTTTCTAGTACGAAAGGACCGAAAAAGCACGGCCTATAC [C] CC [-] AA
myceus GCGCTTTTCCTAGTACGTAACAACCGTTAAAGCACGGGCCATAC [N] TA [-] AC
notoak GAGCTTTTTCTAGTACGAAAGGACCGAAAAAGCATGGGCCATAC [T] TA [-] AC
elenae GAGCTTTTTCTAGTACGAAAGGACCGAAAAAGCACGGGCCATGC [C] TA [-] AT
tacinu GAGCTTTTTCTAGTACGNNAGGNCCGNNAAGCACGGCCTATAC [T] T [C -] AC

spixii GCA [A] GCCGTAACAACCAATTTATGATATAGCCTCAATAGAATTATGTATC
didymu GCA [A] GCCGTAGCAACCAATTTATGACATAACCTCAATAAAAATTATGTATC
fuscus GCA [A] GCCGTAACAGCCAACCTTATGACATAGTCTTAATAAAAATTATGTATA
myceus GCA [N] GCCGTAACAATCAATTTATGGCATAACCTCAATAAAAATCATGTATC
notoak GCA [A] GCCATAGCAACCAATTTATGACATAACCTCAATAAAAATTATGCATC
elenae GCA [A] GCCGTAACAGCCAATTTATGACATAACCTTAATAAAAATTATGTATT
tacinu GCA [A] GCCGTAACAACCAATTTATGACTAAACCTTAATAAAAATTATGTATT

spixii T [-] CACCCAGCCCAAGAAA [A -] GGGCAGTTAACG [T] AGCAAAACCTGGATTT
didymu T [-] CACCCAGCCCAAGAAA [A -] GGGCAGTTAACG [T] AGCAAAACCTGGATTT
fuscus C [-] CAACAAGCCCAAGAAA [NA] GGGCAGTTAACG [T] AGCAAAACCTGGATTT
myceus T [G] CACTAGGCCCAAGAAA [A -] GGGCAGTTAACG [-] AGCAAAACCTGGATTT
notoak T [-] TACCCAGCCCAAGAGA [A -] GGGCAGTTAACG [T] AGCAAAATCTGGATTT
elenae C [-] CACTAAGCCCAAGAAA [A -] GGGCAGTTAACG [T] AGCAAAACCTGGATTT
tacinu T [-] AAACCAGCCCAAGATA [A -] GGGCAGTTAACG [T] AGCAAAATCTGGATTT

spixii GCAAAAG [A] CCTAAACCTTTCTATAGAAGTTCAAATCTTCTCGT [-] TAACT
didymu GCAAAAG [A] CCTAAACCTTTCTATAGAAGTTCAAATCTTCTCGT [-] TAACT
fuscus GCAAAAG [A] CCTAAACCTTTCTATAGAAGTTCAAATCTTCTCGT [-] TAACT
myceus GCAAAAG [C] CCTCAACCTTATATATAGGAGGTCAGGTCTTCTCAC [A] TAACT
notoak GCAAAAG [A] CCTAAACCTTTCCATAGAAGTTCAAATCTTCTCGT [-] TAACT
elenae GCAAAAG [A] CCTAAACCTTTCCATAGAAGTTCAAATCTTCTCGT [-] TAACT
tacinu GCAAAAG [N] CCTAAACCTTTTATAGAAGTTCAAATCTTCTCGT [-] TAACT

spixii [TTGAA-----CATCACT---AT-] TACTCTCCCC [N] TTCTTTACATTGT [C] CC
didymu [TTGAA-----CATCACT---AT-] TATTCTCCCC [C] TTCTTTACATTAT [C] CC
fuscus [TTGAA-----TATTACTTCTAT-] TGTCTCCCC [C] TTCTTTATATTGC [N] CC
myceus [TTTAT-----CATCACT---AT-] TATTCTTCCC [C] TTCTCTACATTGT [C] CC
notoak [TTGAA-----CATCACT---AT-] TATTCTCCCC [C] TTCTTTACATTGT [C] CC
elenae [TTGAA-----CATCAC---TAT-] TATTCTTCCC [C] TTCTTTATATTGT [C] CC
tacinu [TTGAA-----CTTAACACTTAT-] TCTTCTTCCA [C] TTCTTTATATTGT [T] CC

spixii CATTCTCCTCGCAGTAGCATTTCT [T] ACCCTGATCGAACGC [A] AAGTAC [T] AG
didymu CATTCTACTCGCAGTAGCATTTCT [C] ACCCTAGTTGAACGC [A] AAGTCC [-] AG
fuscus GATTCTTCTAGCAGTAGCATTTCT [N] ACTCTGATCGAGCGG [A] AAGTCC [T] GG
myceus TATTCTTTTAGCAGTAGCATTTCT [T] ACCCTAGTCGAACGT [A] AGGTTT [T] AG
notoak CATTCTCCTCGCAGTAGCATTTCT [C] ACCCTAATTGAACGC [A] AAGTTC [T] CG
elenae CATTCTTTTGGCAGTGGCATTCCT [C] ACCCTAATTGAACGA [A] AAGTTT [T] AG
tacinu TATTATTTTAGCAGTGGCATTTCT [A] ACCCTAATTGAACGG [N] AAGTCC [T] GG

spixii GCTACATACAACATCGTAAAGGGCCCAATATTGTAGGCC [A] ACAGGACTT
didymu GCTACATGCAACACCGTAAAGGGCCCAATATTGTAGGCC [A] ACAGGGCTT
fuscus GTTATATACAACACCGAAAAGGGCCCAATATTGTTGGCCC [N] ATAGGACTT
myceus GTTACATGCAACATCGCAAAGGACCTAATATTGTAGGCC [T] ATAGGACTT
notoak GCTATATACAGCACCCTAAAGGACCAATATTGTAGGCC [A] ACAGGACTT
elenae GCTATATACAGCACCCTAAAGGACCAACATTTGTTGGCCC [C] GTGGGGCTT
tacinu GCTACATACAACATCGTAAAGGNCCTAACATTTGTTGGTCC [T] ATAGGACTT

spixii CTGCAACCAATCGCTGATGGGGT [-] AAAACTATTTATTAAAGAGCCAATTC

didymu CTGCAGCCAATCGCCGACGGAGT [-] AAAACTTTTCATTAAAGAACCGATCC
fuscus CTTCAACCAATTGCTGACGGAGT [C] AAAGCTATTTATCAAAGAGCCAATTC
myceus CTTCAACCAATTGCCGACGGGGT [-] AAAACTATTTATTAAGAACCTATCC
notoak CTGCAACCAATCGCCGATGGGGT [-] TAAACTATTTATCAAAGAGCCCATCC
elenae CTACAACCTATTGCAGATGGAGT [-] AAAACTATTTATTAAGAAGCCAATTC
tacinu TTACAGCCTATCGCTGACGGAGT [-] AAAATTATTTATTAAGAACCAATCC

spixii GCCCATCTACCTCATCACAACCTTTATTTCTTCTGGCCCCAACCATGGCC
didymu GCCCATCAACCGCATCACAACCTTATTCTTCTGGCCCCAACCATGGCC
fuscus GCCCATCAACCTCATCAGACCTTATTCTTTTAGCCCCAACCAATAGCA
myceus GCCCGTCAACCTCATCACAACCTTTATTTCTTTTAGCCCCAACCATAGCC
notoak GCCCATCCACCTCATCACAACCTTATTCTTTTAGCCCCAACCATGGCC
elenae GCCCATCAACCTCATCGAGACTTTATTTCTTTTAGCCCCAACTATAGCC
tacinu GTCCATCAACTTCTCCCAAACACTTTTCTTTTAGCTCCACACTTGCC

spixii CTGGCTCTAGCTATAATTATTTGAACCCCGCTGCCAAT [G] CCCCTATCTTT
didymu CTAGCTCTGGCCATGATTATTTGAACCCCTGCCGAT [A] CCCCTATCTTT
fuscus CTTGCTCTAGCTATAGTTATTTGAACCCCTCTCCCGAT [A] CCCCTCTCCTT
myceus CTCGCTCTAGCCATGATCATCTGAACACCCCTGCCAAT [G] CCCCTGCCCTT
notoak CTGGCCTTAGCTATGATTATCTGAACCCACTACCAAT [A] CCTCTATCTTT
elenae CTTGCCCTAGCCATGATTATCTGAACCCACTACCCAT [A] CCCCTATCCTT
tacinu CTAGCCCTAGCCCTGATCATCTGAACCCACTCCCTAT [N] CCCCTCTCCTT

spixii ATCTGACATAAACCTGGGGATCCTATTTATTTCTTGCCTGTCCAGCCTAA
didymu ATCTGACATAAACCTGGGGATTTTATTTATTTCTCGCTCTATCCAGCCTGA
fuscus ATCCGACATGAACCTGGGCATTTCTTTTATTTTAGCACTCTCTAGCCTAA
myceus GTCTGATATAAACCTAGGAATCTTATTCATCCTTGCCCTATCCAGCCTAA
notoak ATCTGACATAAACCTGGGAATTTTATTTATTTCTCGCCCTCTCCAGCCTAA
elenae CTCAGACATGAACCTAGGGATCTTGTTTATCTTAGCCCTCTCTAGCCTAA
tacinu ATCAGATATAAACCTTGGGATCCTATTTATTTTAGCTTTGTCCAGCCTAA

spixii CAGTCTACTCTATTTTGGGATCGGGCTGGGCTCAAATTCAAA [A] TACGCC
didymu CAGTATACTCTATTTTAGGATCGGGTGGGCTCAAATTCAAA [A] TACGCC
fuscus CCGTGTACTCTATTTTAGGGTCAGGGTGGGCTCAAATTCAAA [N] TACGCC
myceus CGGTATATTCTATCTTGGGTCAGGATGAGCCTCTAACTCAA [A] TACGCC
notoak CCGTTTACTCTATCTTGGGATCAGGCTGAGCCTCAAATTCAAA [A] TACGCC
elenae CAGTATACTCCATCTTAGGATCAGGTTGAGCCTCAAATTCAAA [A] TACGCC
tacinu CAGTTTACTCTATTTTAGGGTCAGGGTGGGCTCAAATTCAAA [A] TATGCT

spixii CTTATTGGAGCCTTACGAGCAGTTGCACAAACCATCTCTTACGAAGTCAC
didymu CTCATTGGGGCTTTACGAGCAGTTGCACAAACCATCTCTTATGAAGTCAC
fuscus CTCATTGGAGCCTTACGAGCAGTTGCACAGACCATTTCTTATGAAGTCAC
myceus CTTATTGGGGCCTTACGAGCAGTTGCACAAACCATCTCTTATGAAGTCAC
notoak CTTATTGGGGCCTTACGAGCAGTTGCACAAACCATCTCTTACGAAGTCAC
elenae CTTATTGGGGCCTTACGAGCAGTTGCACAAACCATCTCATATGAAGTCAC
tacinu TTAATTGGGGCCTTACGAGCAGTTGCACAAACCATCTCTTATGAAGTCAC

spixii CCTTGCCCTGATCCTATTGTGCAGTATCTTG [--] CTGTCCGG [-] AAATTTCA
didymu CCTCGCTTTAATTCCTATGCAGTATTTTG [--] CTATCCGG [-] AAATTTA
fuscus ACTGGCCCTGATTCCTTTATGCAGTATCTTA [--] CTATCCGG [-] CAATTTA
myceus CCTTGCTCTCATTCCTTTATGCAGTATCTTA [--] CTGTCCGG [-] AAATTTA
notoak CCTCGCCCTAATTCCTTTATGCAGTATCTTG [--] CTATCCGG [-] AAATTTA
elenae CCTTGCCCTCATCTTATTATGCAGTATTTA [--] TTATCAGG [-] AAATTTA
tacinu TCTTGCCCTGATTCCTTCTTGTAGCATTTTT [AC] TCATCTGG [T] AAATTTA

spixii CATT [-] ACA [-] AAATTTCAATGTTACCCAAGAATCA [G] TCTGACTCATTATCC
didymu CAAT [-] ACA [-] AAATTTAATGTTACCCAAGAGCCA [A] TCTGACTCATCGTCC
fuscus CGCT [-] ACA [-] AAATTTCAATATTATCCAAGAATCT [N] TTTGACTTATTATCC

myceus CCTT[-]ACA[-]AAACTTCAATATCACCCAAGAATCC[A]TCTGACTTATTGTCC
notoak CATT[-]ACA[-]AAACTTCAATATTACTCAAGAGTCA[A]TCTGACTCATTATCC
elenae CTCT[-]ACA[-]AAATTTAGCATTACCCAAGAGTCC[A]TTTGACTTATTATCC
tacinu CTTT[T]ACA[C]AAACTTTAATATTTCTCAAGAAGCC[A]TCTGACTTATTTTTT

spixii CAATCTGACCCCTAGCCATAATGTGGTATATTTCCACCCTAGCAGAAACA
didymu CAATTTGACCCCTGGCTATAATGTGGTATATCTCTACCCTGGCAGAGACG
fuscus CAATCTGACCTTTAGCCATGATATGGTATATATCGACCCTAGCAGAGACT
myceus CAATCTGACCTCTAGCCATAATATGGTATATCTCAACTCTAGCAGAAACT
notoak CAATCTGGCCCCTAGCCATGATATGATATATTTCTACTTTAGCAGAGACT
elenae CAATCTGACCCCTAGCCATAATGTGATACATCTCTACCCTAGCAGAAACC
tacinu CTATCTGACCTCTAGCTATAATATGATATATTTCAACCCTAGCAGAAACA

spixii AACCGAGCCCCATTTG[AT]TTAA[CA]GAGGGGGAG[-]TCTGAACTAGTCTCCG
didymu AACCGAGCCCCATTTG[AC]TTGA[CA]GAGGGAGAA[-]TCTGAGCTAGTTTCCG
fuscus AATCGAGCCCATTGA[NN]TTAA[NN]GAAGGAGGA[G]TCTGAACTAGTCTCTG
myceus AACCGAGCCCCGTTTG[AC]TTAA[CA]GAAGGGGAG[-]TCTGAGCTAGTCTCCG
notoak AACCGGGCCCCATTCG[AT]TTAA[CA]GAGGGAGAA[-]TCCGAACTAGTCTCCG
elenae AATCGAGCCCCATTCG[AC]CTGA[CT]GAGGGGGAG[-]TCTGAACTAGTATCTG
tacinu AACCGAGCCCCCTTCG[AT]TTGA[CA]GAAGGTGAA[-]TCTGAACTAGTTTCCG

spixii GCTTCAATGTGGAATACGCCGGAGG[A]
didymu GCTTCAATGTAGAATATGCTGGAGG[N]
fuscus GGTTC AACGTAGAATATGCAGGTGG[A]
myceus GGTTC AATGTGGAATACGCTGGGGG[G]
notoak GCTTCAACGTAGAATATGCCGGAGG[C]
elenae GATTCAATGTAGAATACGCAGGTGG[C]
tacinu GCTTCAATGTAGAGTATGCAGGGAG[G]

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end;