



AK\_Dspp1 GGCTCATGCTGGGCCATCAGTAGACTTAGCTATTTTTCTCCCTTCACTTAGCTGGAGCCTC  
AK\_Dspp5 GGCTCATGCTGGGCCATCAGTAGACTTAGCTATTTTTCTCCCTTCACTTAGCTGGAGCCTC  
AK\_Dspp6 GGCTCATGCTGGGCCATCAGTAGACTTAGCTATTTTTCTCCCTTCACTTAGCTGGAGCCTC  
AK\_Dspp7 GGCTCATGCTGGGCCATCAGTAGACTTAGCTATTTTTCTCCCTTCACTTAGCTGGAGCCTC  
AK\_Dspp3 GGCTCATGCTGGGCCATCAGTAGACTTAGCTATTTTTCTCCCTTCACTTAGCTGGAGCCTC  
AK\_Dspp8 GGCTCATGCTGGGCCATCAGTAGACTTAGCTATTTTTCTCCCTTCACTTAGCTGGAGCCTC  
AK\_Dspp2 TGCGCATGCTGGACCCTCTGTAATCTAGCAATTTTTCTCTTTCATTTAGCTGGGGCATC  
\*\* \*\*\*\*\* \*\* \*\* \* \*\* \* \*\* \* \*\* \* \*\* \* \*\* \* \*\* \* \*\* \*

AK\_Dspp1 TTCAATTTTAGGTGCAATTAATTTTATTACTACAGTTATCAATATACGATGATCGGGACT  
AK\_Dspp5 TTCAATTTTAGGTGCAATTAATTTTATTACTACAGTTATCAATATACGATGATCGGGACT  
AK\_Dspp6 TTCAATTTTAGGTGCAATTAACTTTATTACTACAGTTATCAATATACGATGATCAGGACT  
AK\_Dspp7 TTCAATTTTAGGTGCAATTAACTTTATTACTACAGTTATCAATATACGATGATCAGGACT  
AK\_Dspp3 TTCAATTTTAGGTGCAATTAACTTTATTACTACAGTTATCAATATACGATGATCAGGACT  
AK\_Dspp8 TTCAATTTTAGGTGCAATTAACTTTATTACTACAGTTATCAATATACGATGATCGGGACT  
AK\_Dspp2 CTCAATTCTGGGTGCCATTAACTTTATTACAACAGTTATTAATATACGATGAAGGGGCT  
\*\*\*\*\* \* \*\*\*\*\* \*\*\*\*\* \*\*\*\*\* \*\*\*\*\* \*\*\*\*\* \*\*\*\*\* \*\*\*\*\* \*\* \*\*

AK\_Dspp1 ACGACTAGAGCGAATTCCCCATTTGTCTGAGCTGTACTAATTACAGTTATTTCTCCTTCT  
AK\_Dspp5 ACGACTAGAGCGAATTCCCCATTTGTCTGAGCTGTACTAATTACAGTTATTTCTCCTTCT  
AK\_Dspp6 ACGGCTAGAGCGAATTCCCCATTTGTCTGAGCTGTACTAATTACAGTTATTTCTACTTCT  
AK\_Dspp7 ACGGCTAGAGCGAATTCCCCATTTGTCTGAGCTGTACTAATTACAGTTATTTCTACTTCT  
AK\_Dspp3 ACGGCTAGAGCGAATTCCCCATTTGTCTGAGCTGTACTAATTACAGTTATTTCTACTTCT  
AK\_Dspp8 ACGGCTAGAGCGAATTCCCCATTTGTCTGAGCTGTACTAATTACAGTTATTTCTACTTCT  
AK\_Dspp2 ACGTCTAGAACGTATTCCTTATTTGTATGANCAGGATTAATTACTGTANTGTTACTTCT  
\*\*\* \*\*\*\*\* \*\* \*\*\*\*\* \*\*\*\*\* \*\*\*\*\* \* \* \* \*\*\*\*\* \*\* \* \* \*\*\*\*\*

AK\_Dspp1 CCTGTCACCTGCTACTAGCGGGGGCAATTACTATACTTTTAAACAGACCGAAATTTAAA  
AK\_Dspp5 CCTGTCACCTGCTACTAGCGGGGGCAATTACTATACTTTTAAACAGACCGAAATTTAAA  
AK\_Dspp6 CCTATCACTGCCTGTATTAGCGGGGGCAATTACTATACTTTTAAACAGACCGAAATTTAAA  
AK\_Dspp7 CCTATCACTGCCTGTATTAGCGGGGGCAATTACTATACTTTTAAACAGACCGAAATTTAAA  
AK\_Dspp3 CCTATCACTGCCTGTATTAGCGGGGGCAATTACTATACTTTTAAACAGACCGAAATTTAAA  
AK\_Dspp8 CCTATCACTGCCTGTATTAGCGGGGGCAATTACTATACTTTTAAACAGACCGAAATTTAAA  
AK\_Dspp2 TCTCTCTTTACCAGTTCTTGCTGGCGCAATTACTATACTTCTTACANACCGAAACCTAAA  
\*\* \*\* \* \*\* \* \* \*\* \* \*\* \* \*\* \* \*\* \* \*\* \* \*\* \* \*\* \* \*\* \*

AK\_Dspp1 TACATCATTTTTTGATCCTGCGGGAGGGGGGATCCAATTTTATATCAACATCTTTT  
AK\_Dspp5 TACATCATTTTTTGATCCTGCGGGAGGGGGGATCCAATTTTATATCAACATCTTTT  
AK\_Dspp6 TACATCATTTTTTGATCCTGCGGGAGGGGGAGATCCAATTTTATATCAACATCTTTT  
AK\_Dspp7 TACATCATTTTTTGATCCTGCGGGAGGGGGAGATCCAATTTTATATCAACATCTTTT  
AK\_Dspp3 TACATCATTTTTTGATCCTGCGGGAGGGGGAGATCCAATTTTATATCAACATCTTTT  
AK\_Dspp8 TACATCATTTTTTGATCCTGCGGGAGGGGGAGATCCAATTTTATATCAACATCTTTT  
AK\_Dspp2 CACCTCATTTCTTTGATCCTGCAGGGGNGGAGACCAATTTCTGTACCAGCATTATT  
\*\* \*\*\*\*\* \*\*\*\*\* \*\*\*\*\* \*\* \*\* \* \*\* \* \*\* \* \*\* \* \*\* \* \*\* \* \*\* \*

**BLAST Results:**

- 1 and 5 are identical; 100% identity and coverage with *Dendrobaena attemsi*; differ from 3, 6, 7, 8 @ 18/657 nt
- 3, 6, 7 and 8 are virtually identical (8 differs at 1 nt); 100% identity and coverage with *Dendrobaena octaedra*
- 2 is 98% identical to an unclassified *Haplotaxida* species; 97% identical to *Dendrodrilus sp*; differs from 3, 6, 7, 8 at 129/633 nt (~20%) and from 1 & 5 at 124/633 nt

**Specimen Identifiers:**

- #1: Tustumena Lake, Bird cabin; 22-July-2011; KNWR 7093
- #2: Ridge above Emerald Lake (under rock); 30-June-2011
- #3: Sportfish Lake, East edge; 4-Aug-2011
- #4: Fuller Lakes trail, West of trail; 19-July-2011; KNWR 7090 (no data)
- #5: Bay Lake; 4-Aug-2011; KNWR 7213
- #6: Soldotna, Funny River Rd; 30-June-2011 KNWR 7071
- #7: Swanson River Rd, North of Refuge boundary; 7-July-2011; KNWR 7075
- #8: Bottenintnin Lake, boat launch; 29-June-2011; KNWR 7055