

Acetylcholinesterase DNA Alignment: SR is resistant to insecticides; SLA-B is sensitive to insecticides

CLUSTAL O(1.2.1) multiple sequence alignment

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SLA-B      ATGGAGATCCGAGGCCTAATAACCCGATTACTGGGTCCATGTCACCTGCGACATCTGATA
SR         ATGGAGATCCGAGGCCTAATAACCCGATTACTGGGTCCATGTCACCTGCGACATCTGATA
*****

SLA-B      CTGTGCAGTTTGGGGCTGTACTCCATCCTCGTGCAGTCGGTCCATTGCCGGCATCATGAC
SR         CTGTGCAGTTTGGGGCTGTACTCCATCCTCGTGCAGTCGGTCCATTGCCGGCATCATGAC
*****

SLA-B      ATCGGTAGTTCGGTGGCACACCAGCTAGGATCGAAATACTCACAATCATCCTCGTTATCG
SR         ATCGGTAGTTCGGTGGCACACCAGCTAGGATCGAAATACTCACAATCATCCTCGTTATCG
*****

SLA-B      TCATCCTCGCAATCGTCATCGTTCGTTAGCTGAAGAGGCCACGCTGAATAAAGATTGAGAT
SR         TCATCCTCGCAATCGTCATCGTTCGTTAGCTGAAGAGGCCACGCTGAATAAAGATTGAGAT
*****

SLA-B      GCATTTTTTACACCATATATAGGTCACGGAGATTCTGTTTGAATTGTAGATGCCGAATTA
SR         GCATTTTTTACACCATATATAGGTCACGGAGATTCTGTTTGAATTGTAGATGCCGAATTA
*****

SLA-B      GGTACATTAGAGCGCGAGCATATCCATAGCACTACGACCCGGCGGGCTGGCCTGACCCGG
SR         GGTACATTAGAGCGCGAGCATATCCATAGCACTACGACCCGGCGGGCTGGCCTGACCCGG
*****

SLA-B      AGGGAGTCCAGCTCCGATGCCACCGACTCGGACCCACTGGTCATAACGACGGACAAGGGC
SR         AGGGAGTCCAGCTCCGATGCCACCGACTCGGACCCACTGGTAATAACGACGGACAAGGGC
*****

SLA-B      AAAATCCGTGGAACGACACTGGAAGCGCCTAGTGGAAGAAGGTGGACGCATGGATGGGC
SR         AAAATCCGTGGAACGACACTGGAAGCGCAAGTGGAAGAAGGTGGACGCATGGATGGGC
*****

SLA-B      ATTCCGTACGCGCAGCCCCGCTGGGTCCGCTCCGGTTTCGACATCCGCGACCCGCCGAA
SR         ATTCCGTACGCGCAGCCCCGCTGGGTCCGCTCCGGTTTCGACATCCGCGACCCGCCGAA
*****

SLA-B      AGATGGACCGGTGTGCTGAACGCGACCAAACCGCCCAACTCCTGCGTCCAGATCGTGGAC
SR         AGATGGACCGGTGTGCTGAACGCGACCAAACCGCCCAACTCCTGCGTCCAGATCGTGGAC
*****

SLA-B      ACCGTGTTTCGGTGACTTCCCGGGGGCCACCATGTGGAACCCGAACACACCGCTCTCGGAG
SR         ACCGTGTTTCGGTGACTTCCCGGGCGCGACCATGTGGAACCCGAACACACCCCTCTCGGAG
*****

SLA-B      GACTGTCTGTACATCAACGTGGTTCGTGCCACGGCCAGGCCAAGAATGCCGCGTGCATG
SR         GACTGTCTGTACATCAACGTGGTTCGTGCCAAGGCCAGGCCAAGAATGCCGCTGTGCATG
*****

SLA-B      CTGTGGATCTTCGGGGTGGCTTCTACTCCGGGACTGCCACGCTGGACGTGTACGACCAT
SR         CTGTGGATCTTCGGGGTGGCTTCTACTCCGGGACTGCCACGCTGGACGTGTACGATCAT
*****

SLA-B      CGGACGCTGGCCTCGGAGGAGAACGTGATCGTAGTTTCGCTGCAGTACCGTGTGCAAGT
SR         CGGACGCTGGCCTCGGAGGAGAACGTGATCGTAGTTTCGCTGCAGTACCGTGTGCAAGT
*****

SLA-B      CTTGGGTTTCTCTTCTTCCGCGGACACCCGAGGCACCCGGTAACGCGGGGCTGTTTGATCAG
SR         CTTGGTTCCTCTTCTTCCGCGGACTCCGAGGCACCTGGTAACGCGGGGCTGTTTGATCAG
*****
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SLA-B AACCTGGCACTGAGATGGGTCCGCGACAACATCCACCGGTTTCGGCGGTGACCCCTCGCGG
SR AACCTGGCACTGAGATGGGTCCGCGACAACATCCACCGGTTTCGGCGGTGACCCCTCGCGG

SLA-B GTCACACTGTTTCGGCGAGAGCGCCGGAGCGGTCTCGGTTTCGCTGCACCTGCTGTTCGGCG
SR GTCACACTGTTTCGGCGAGAGCGCCGGAGCGGTCTCGGTTTCGCTGCACCTGCTGTTCGGCG

SLA-B CTCTCGCGGGACCTGTTCCAGCGGGCCATCCTCCAGAGTGGCTCCCCGACGGCCCCGTGG
SR CTCTCGCGGGACCTGTTCCAGCGGGCCATCCTCCAGAGTGGCTCCCCGACGGCCCCATGG

SLA-B GCGCTGGTTTCGCGCGAAGAAGCTACGCTTAGAGCTCTTCGCTGCGCCGAGGCCGTCAAC
SR GCGCTGGTTTCGCGCGAAGAAGCTACGCTTAGAGCTCTTCGCTGCGCCGAGGCCGTCAAC

SLA-B TGTCCGCACGATGCGACCAAGCTGAGCGATGCCGTGCAATGCCTGCGAACCAAGGATCCG
SR TGTCCGCACGATGCGACCAAGCTGAGCGATGCCGTGCAATGCCTGCGAACCAAGGATCCG

SLA-B AACGAGCTGGTGCACAACGAGTGGGGCAGCTGGGGATCTGCGAGTTTCCGTTTCGTTCCG
SR AACGAGCTGGTGCACAACGAGTGGGGCAGCTGGGGATCTGCGAGTTTCCGTTTCGTTCCG

SLA-B GTTGTGGACGGAGCCTTCTCGATGAGACACCGCAGCGTTTCGTTGGCCAGCGGGCGCTTC
SR GTTGTGGACGGTGCCTTCTCGATGAGACACCGCAGCGTTTCGTTGGCCAGCGGTTCGCTTC

SLA-B AAGAAAACGGACATCCTGACCGGCAGCAACACCGAGGAGGGTTACTACTTTATCATTTAC
SR AAGAAAACGGACATCCTGACCGGCAGCAACACCGAGGAGGGTTACTACTTTATCATTTAC

SLA-B TATCTAACCGAACTGCTCAGGAAAGAGGAAGGGGTCACGGTAACACGCGAGGAGTTCCTA
SR TATCTAACCGAACTGCTCAGGAAAGAGGAAGGGGTCACGGTAACACGCGAGGAGTTCCTA

SLA-B CAGGCCGTCCGGGAGTTGAATCCGTACGTGAACGGTGCCGCCCGGCAGGCCATCGTGTTC
SR CAGGCCGTCCGGGAGTTGAATCCGTACGTGAACGGTGCCGCCCGGCAGGCCATCGTGTTC

SLA-B GAGTACACGGACTGGATTGAACCGGACAACCCGAACAGCAACCGTGACGCGCTGGACAAG
SR GAGTACACGGACTGGATCGAACCGGACAACCCGAACAGCAACCGTGACGCGCTCGACAAG

SLA-B ATGGTCGGGGATTATCACTTCACCTGCAACGTGAACGAATTCGCCAGCGGTACGCCGAG
SR ATGGTCGGGGATTATCACTTCACCTGCAACGTGAACGAGTTCGCCAGCGGTACGCCGAG

SLA-B GAGGGCAACAACGTGTTTCATGTACCTGTACACGCACAGAAGCAAAGGAAATCCCTGGCCG
SR GAGGGCAACAATGTGTTTCATGTACCTGTACACGCACAGAAGCAAAGGAAATCCCTGGCCG

SLA-B AGGTGGACCGGCGTGATGCACGGCGACGAGATCAACTACGTGTTTGGCGAACCGCTGAAC
SR AGGTGGACTGGCGTGATGCACGGCGACGAGATCAACTACGTGTTTGGCGAACCGCTGAAC

SLA-B TCGGCCCTCGGCTACCAGGACGACGAGAAGGACTTTAGCCGAAAATTATGCGATACTGG
SR TCGGCCCTCGGCTACCAGGACGACGAGAAGGACTTTAGCCGAAAATTATGCGATACTGG

SLA-B TCCAACTTTGCCAAGACTGGCAATCCCAACCCGAGTACGCCGAGCGTGGACCTGCCCGAA
SR TCCAACTTTGCCAAGACTGGCAATCCCAACCCGAGTACGCCGAGCGTGGACCTGCCCGAA

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SLA-B TGGCCCAAGCACACCGCCACGGACGACACTATCTGGAGCTGGGACTGAACACGACCTTC
SR TGGCCCAAGCACACCGCCACGGACGACACTATCTGGAGCTGGGACTGAACACGACCTTC

SLA-B GTGGGACGGGGCCACGATTGCGGCAGTGCCTTTCTGGAAGAAATATTTGCCGCAACTA
SR GTGGGACGGGGCCACGATTGCGGCAGTGCCTTTCTGGAAGAAATATTTGCCGCAACTA

SLA-B GTAGCAGCTACCTCTAACCTCCAAGTAACTCCCGCGCCTAGCGTACCTTGCGAAAGCAGC
SR GTAGCAGCTACCTCTAACCTCCAAGTAACTCCCGCGCCTAGCGTACCTTGCGAAAGCAGC

SLA-B TCAACATCTTATCGATCCACTCTACTTCTAATAGTCACACTACTTTTAGTAACGCGGTTTC
SR TCAACATCTTATCGATCCACTCTACTTCTAATAGTCACACTACTTTTAGTAACGCGGTTTC

SLA-B AAGATTTAA
SR AAGATTTAA
