

Online resource 7 for Transcriptomic and Genomic variants between Koala populations reveals underlying genetic components to disorders in a Bottlenecked Population.

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Amino acid sequence data of QLD and SA variants of SLC26A6 transcript variant XM_020999000.1.

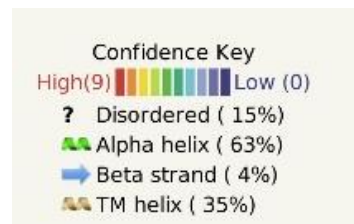
Sequence 1: Amino acid sequence of the SA SNP variant of SLC26A6 Transcript XM_020998995.1 (SNPs marked in Red)

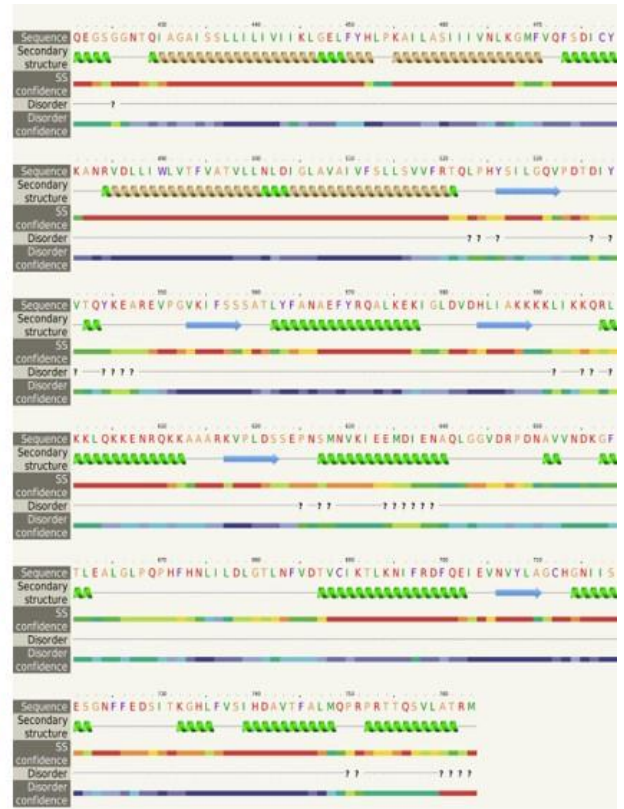
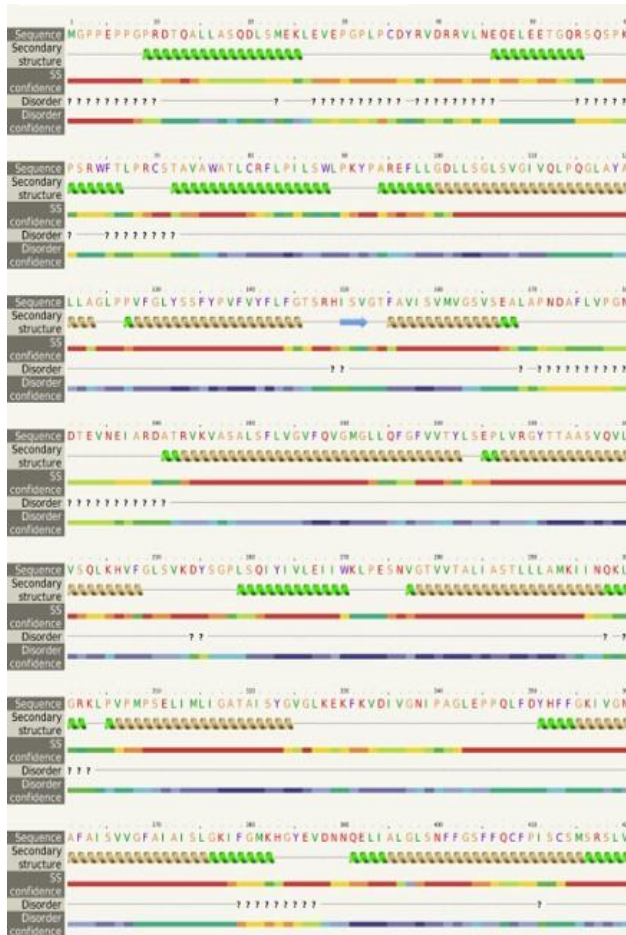
MGPPPPGPRDTQALLASQDLSMEKLEVEPGPLPCDYRVDRRVLNEQELETGQRSQSPKPSRWFT
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YPVFVYFLFGTSRHISVGTFAVISVMVGSVSEALAPNDAFLVPGNDTEVNEIARDATRVKVASALSFL
VGVFQVGMGLLQFGFVVTYLSEPLVRGYTTAASVQVLVSQKLVFGLSVKDYSGPLSQIYIVLEIIWK
LPESNVGTVVTAIASTLLAMKIINQKLGRKLPVPMPSLIMLIGATAISYGVGLKEKFKVDIVGNIPA
GLEPPQLFDYHFFGKIVGNAFAISVVGFAIAISLGKIFGMKHGYEVDNNQELIALGLSNFFGSFFQCFP
ISCSMSRSLVQEGSGGNTQIAGAISLLILIVIIKLGELFYHLPKAILASIIIVNLKGMFVQFSDICYLW
KANRVDLLIWLVTFTVATVLLNLDIGLAVAIVFSLSVVFRTQLPHYSILGQVPDTDIYRDVTQYKEARE
VPGVKIFSSSATLYFANAEFYRQALKEKIGLDVDHLLIAKKKKLIKKQLKTKKLQKKENRQKAAARK
VPLDSSEPNSMNVKIEEMDIENAQLGGVDRPDNAVVDKGFLLTLEALGLPQPHFHNILDLGTLNF
VDTVCIKTLKNIFRDFQEIEVNVYLAGCHGNIISQFESGNFFEDSITKGHLFVSIHDAVTFALMQPRPR
TTQSVLATRM*

Sequence 2: Amino acid sequence of the QLD SNP variant of SLC26A6 Transcript XM_020998995.1 (SNPs marked in Red)

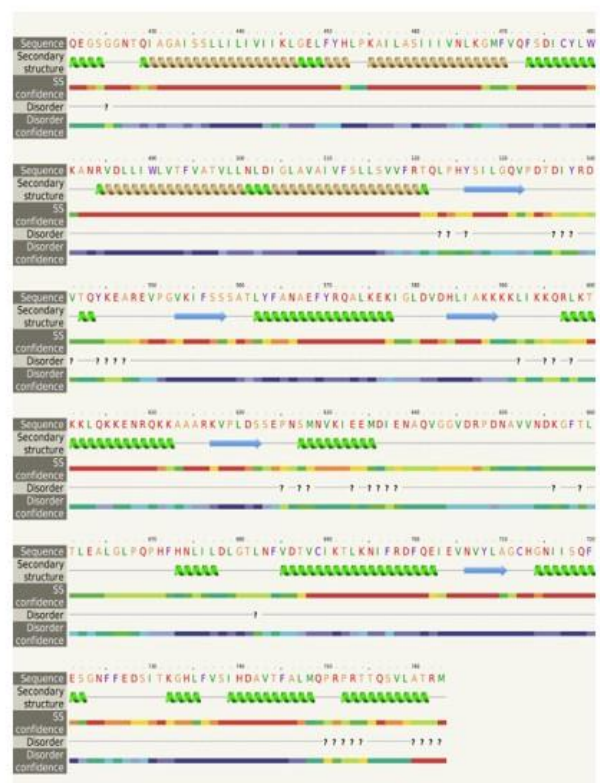
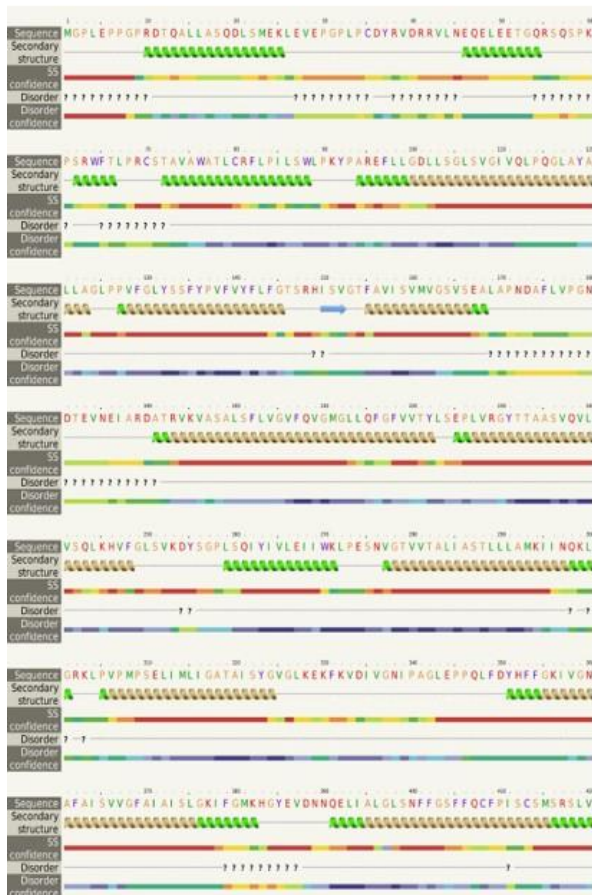
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YPVFVYFLFGTSRHISVGTFAVISVMVGSVSEALAPNDAFLVPGNDTEVNEIARDATRVKVASALSFL
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LPESNVGTVVTAIASTLLAMKIINQKLGRKLPVPMPSLIMLIGATAISYGVGLKEKFKVDIVGNIPA
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ISCSMSRSLVQEGSGGNTQIAGAISLLILIVIIKLGELFYHLPKAILASIIIVNLKGMFVQFSDICYLW
KANRVDLLIWLVTFTVATVLLNLDIGLAVAIVFSLSVVFRTQLPHYSILGQVPDTDIYRDVTQYKEARE
VPGVKIFSSSATLYFANAEFYRQALKEKIGLDVDHLLIAKKKKLIKKQLKTKKLQKKENRQKAAARK
VPLDSSEPNSMNVKIEEMDIENAQVGGVDRPDNAVVDKGFLLTLEALGLPQPHFHNILDLGTLNF
VDTVCIKTLKNIFRDFQEIEVNVYLAGCHGNIISQFESGNFFEDSITKGHLFVSIHDAVTFALMQPRPR
TTQSVLATRM*

Figure 1 Secondary Structure prediction with Phyre2 for SA variant (panel A) and QLD variant (Panel B) Key:





A



B