

Supplementary Fig.1

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Aed a 2      MKLPLLL--AIVTTFSSVASTGPFDPPEEMLFTFTRCMEDNLEDGPNRLPMLAKWKEWINE      58
D712 Alb1   MNILLVLAVVTISSLALVTAKGPFDPPEEMHFIFTRCMEDNLEKDGPDVRVKTLLKWKKEWVTE      60
D712 Alb2   MNLPLVLAVVTISSLVALVTAKGPFDPPEEMHFIFTRCMEDNLEKDGPDVRVETLLKWKKEWVTE      60
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Aed a 2      PVDSPATQCFGKCVLVRTGLYDPVAQKFDASVIEQEQFKAYPSLGEKSKVEAYANAVQQLP      118
D712 Alb1   PKDDPATHCFAKCVLEMSGLYDAASGKFDASVIEAQHKAYPNSEDKGVDAFVKAVQALP      120
D712 Alb2   PRDDPATHCFAKCVLEMSGLYDAASGKFDASVIEAQHKAYPNSEDKGVDAFVKAVQGLP      120
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Aed a 2      STNNDCAAVFKAYDPVHKAHKDTSKNLFHGNKELTKGLYEKLGKDIRQKQSYFEFCENK      178
D712 Alb1   PTKNDCTAVFRAFQPVHMAHKATSINLFHDNKALTKGIYEKLGKDIRQKQSYFEFCENK      180
D712 Alb2   PTKNDCTAVFRAFQPVHMAHKATSINLFHDNKALTKGIYEKLGKDIRQKQSYFEFCENK      180
*:***:***:*.*** ** * * * * * .** *****:*****:*****

Aed a 2      YYPAGSDKRQQLCKIRQYTVLDDALFKEHTDCVMKGIYITKNNELDAEEVKRDFMQVNK      238
D712 Alb1   HYPVGSPPKRSDLCKIRQYVVLDDAQFKQHTDCIMKGLRYITKDNILNCDEIKRDFKQVNK      240
D712 Alb2   HYPVGSPPKRSDLCKIRQYVVLDDAQFKQHTDCIMKGLRYITKDNILNCDEIKRDFKQVNK      240
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Aed a 2      DTKALEKVLNDCKSKEPSNAGEKSWHYKCLVESSVKDDFKEAFDYREVRSQIYAFNLPK      298
D712 Alb1   DTGALEKVLNTCKAKEPRDVKEKSWHYKCLVESSVANDFKEAFDYREVRSQNYGYHLMQ      300
D712 Alb2   DTGALEKVLNTCKAKEPRDVKEKSWHYKCLVESSVNDFKEAFDYREVRSQNYGYHLMQ      300
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Aed a 2      KQVYSKPAVQSQVMEIDGKQCPQ      321
D712 Alb1   KQPYNKPAVQAQVSEVDGKQCPS      323
D712 Alb2   KQQYNKPAVQAQVSEVDGKQCPS      323
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Aed a 2: P18153|ALL2_AEDAE 37 kDa salivary gland allergen Aed a 2 [*A aegypti*]
 D712 Alb1: AAV90666.1 long form D7 salivary protein D712 [*A albopictus*]
 D712 Alb2: JAC10971.1 putative long form d7 salivary protein d712 [*A albopictus*]

	Aed a 2	D712 Alb1	D712 Alb2
Aed a 2	100.00	68.85	69.47
D712 Alb1	68.85	100.00	97.21
D712 Alb2	69.47	97.21	100.00