

Gene ID	Tissue Type	Expression Level 5th Instar (FPKN)	Expression Level Adult Stage (FPKN)	Change in Expression Level (FPKN)
Msex2.07524	Head	74964.41	439.17	-7425.24
Msex2.15420	Head	3602.61	75574.23	71971.62
Msex2.14343	Head	43171.26	2205.55	-40965.71
Msex2.04431	Gut	118.14	82120.42	82002.28
Msex2.15420	Gut	17344.10	62948.05	45603.95
Msex2.14343	Gut	43268.05	3490.07	-39777.98
Msex2.15420	Fat	68477.05	237523.44	169046.38
Msex2.01694	Fat	68823.61	26.09	-68797.52
Msex2.10735	Fat	27176.11	9.57	-27166.54

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Msex2.07524	Head	74964.41	439.17	-7425.24
Msex2.15420	Head	3602.61	75574.23	71971.62
	Gut	17344.096	62948.05	45603.954
	Fat	68477.053	237523.435	169046.382
Msex2.14343	Head	43171.26	2205.55	-40965.71
	Gut	43268.05	3490.07	-39777.98
Msex2.04431	Gut	118.14	82120.42	82002.28
Msex2.01694	Fat	68823.61	26.09	-68797.52
Msex2.10735	Fat	27176.11	9.57	-27166.54

Table 1. Top three genes experiencing the greatest change in expression within the head, gut and fat tissue of *Manduca sexta* between the 5th instar and adult life stage. Positive values under Change in Expression Level indicate an increase in expression level in the adult stage while negative values indicate a decrease in expression level.

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Msex2.07524	Head	74964.41	439.17	-7425.24
Msex2.15420	Head	3602.61	75574.23	71971.62
	Midgut	17344.096	62948.05	45603.954
	Fat	68477.053	237523.435	169046.382
Msex2.14343	Head	43171.26	2205.55	-40965.71
	Midgut	43268.05	3490.07	-39777.98
Msex2.04431	Midgut	118.14	82120.42	82002.28
Msex2.01694	Fat	68823.61	26.09	-68797.52
Msex2.10735	Fat	27176.11	9.57	-27166.54