

**Table S1 GO terms enriched for differentially expressed genes or transcripts.**

GO terms/pathway	Transcripts	P value
Molecular function		
structural molecule activity (29)	gnl UG Ssc#S18549770, gnl UG Ssc#S27603082, gnl UG Ssc#S6074632, gnl UG Ssc#S58311999, gnl UG Ssc#S55325269, gnl UG Ssc#S39981253, 100157608, 396807, gnl UG Ssc#S35326826, 100516258, gnl UG Ssc#S18332357, gnl UG Ssc#S58303082, 100517165, 100515755, 100038029, gnl UG Ssc#S18294286, 100216316, gnl UG Ssc#S40493719, 100515339, gnl UG Ssc#S34499650, gnl UG Ssc#S14766004, gnl UG Ssc#S58314936, 100521642, gnl UG Ssc#S58305086, 100049695, 100155896, gnl UG Ssc#S35170842, gnl UG Ssc#S35324043, gnl UG Ssc#S35172637	0.00140
Biological Process		
striated muscle contraction (7)	100049696, 414906, 414905, gnl UG Ssc#S40268068, gnl UG Ssc#S39838040, gnl UG Ssc#S31115995, 100515755	0.02549
Cellular Component		
macromolecular complex (104)	100154605, 397223, 100157636, gnl UG Ssc#S6072267, gnl UG Ssc#S58305394, 100038029, gnl UG Ssc#S35173164, gnl UG Ssc#S55296793, 100153310, 100144541, 397652, gnl UG Ssc#S35173397, gnl UG Ssc#S40355623, gnl UG Ssc#S46879327, gnl UG Ssc#S6074632, 397025, gnl UG Ssc#S58305209, gnl UG Ssc#S58309386, 100520754, gnl UG Ssc#S58311999, 100153900, 780436, 100294678, 733595, 100620112, 100153133, gnl UG Ssc#S55321566, gnl UG Ssc#S58303437, 100520592, 606742, 100154593, gnl UG Ssc#S39860278, 100514912, gnl UG Ssc#S58302110, 100152191, gnl UG Ssc#S40493719, gnl UG Ssc#S14766004, 397070, 100157758, gnl UG Ssc#S55322529, 100622592, gnl UG Ssc#S40044401, 493184, gnl UG Ssc#S35165215, gnl UG Ssc#S58312028, gnl UG Ssc#S58306640, 397590, gnl UG Ssc#S58303394, gnl UG Ssc#S18549770, 100514599, gnl UG Ssc#S23213001, 100157051, 100157608, gnl UG Ssc#S55285749, 100517165, gnl UG Ssc#S58303082, 100515755, gnl UG Ssc#S18294286, gnl UG Ssc#S35164362, gnl UG Ssc#S58301251, 100381266, 100155593, gnl UG Ssc#S35171978, 100512860, 100521642, gnl UG Ssc#S19542276, 100521769, gnl UG Ssc#S58305035, gnl UG Ssc#S35170842, 100134963, gnl UG Ssc#S55319287, gnl UG Ssc#S58303097, gnl UG Ssc#S35164505, gnl UG Ssc#S27603082, gnl UG Ssc#S58304887, gnl UG Ssc#S39981253, gnl UG Ssc#S6055104, gnl UG Ssc#S55324113, gnl UG Ssc#S46876861, gnl UG Ssc#S58314055, 100511264, 100286810, 692156, 396807, 100516258, gnl UG Ssc#S18332357, 574059, 396648, gnl UG Ssc#S58302893, 100216316, 414430, 100515339, 396826, gnl UG Ssc#S46876703, 100152867, gnl UG Ssc#S35169911, gnl UG Ssc#S58305086, gnl UG Ssc#S35164564, 100049695, gnl UG Ssc#S46881150, gnl UG Ssc#S35172143, gnl UG Ssc#S58315281, gnl UG Ssc#S35324043, gnl UG Ssc#S35172637	0.00042
striated muscle thin filament (5)	100049696, 414905, gnl UG Ssc#S40268068, gnl UG Ssc#S39838040, gnl UG Ssc#S31115995	0.00070
Organelle part	100156780, gnl UG Ssc#S31115995, 100154605, gnl UG Ssc#S23213017, 396622, gnl UG Ssc#S17526117, gnl UG Ssc#S35173279,	0.00266

(157)	<p>100157636, gnl UG Ssc#S6072267, gnl UG Ssc#S58305394, 100038029, gnl UG Ssc#S34499650, 100153310, 768101, 403104, 397652, 100152963, 100517201, gnl UG Ssc#S35167868, 100188907, gnl UG Ssc#S58305209, gnl UG Ssc#S58309386, 100153900, 100516386, gnl UG Ssc#S40268068, 100294678, 100620112, gnl UG Ssc#S35326826, gnl UG Ssc#S58303437, gnl UG Ssc#S58302110, 100152191, gnl UG Ssc#S40493719, gnl UG Ssc#S14766004, 606746, 100514437, gnl UG Ssc#S58302364, gnl UG Ssc#S50197019, 780435, 100152612, gnl UG Ssc#S58313248, 100049696, gnl UG Ssc#S58312028, 397590, 100157546, 100154166, gnl UG Ssc#S58307397, gnl UG Ssc#S35173212, gnl UG Ssc#S23213001, 100157608, gnl UG Ssc#S58311818, 100521909, gnl UG Ssc#S58303082, 100152724, 100515755, gnl UG Ssc#S18294286, gnl UG Ssc#S58301251, gnl UG Ssc#S18385106, 100381266, gnl UG Ssc#S58304837, 100126274, gnl UG Ssc#S19542276, 100521769, 397380, gnl UG Ssc#S58313174, gnl UG Ssc#S35166667, gnl UG Ssc#S58308898, gnl UG Ssc#S55324113, gnl UG Ssc#S46876861, 100511264, 100286810, gnl UG Ssc#S46880952, 100516258, gnl UG Ssc#S23775610, 414430, 100515339, 733629, gnl UG Ssc#S46876703, 100322873, 100152867, gnl UG Ssc#S35169911, gnl UG Ssc#S58305086, gnl UG Ssc#S35164564, gnl UG Ssc#S58315281, gnl UG Ssc#S35172637, 100522734, 100525046, gnl UG Ssc#S55325269, gnl UG Ssc#S18298714, 397059, 100520118, gnl UG Ssc#S35169810, 396679, 100329127, 100217393, 100156204, gnl UG Ssc#S58304620, gnl UG Ssc#S23759718, gnl UG Ssc#S40355623, 100157935, gnl UG Ssc#S46879327, 100520754, 780436, 733595, 100153133, 100156240, gnl UG Ssc#S55321566, 100520592, 100154593, 606742, 397191, gnl UG Ssc#S55320150, 397070, gnl UG Ssc#S55322529, gnl UG Ssc#S58308842, 493184, gnl UG Ssc#S35165215, gnl UG Ssc#S58303394, gnl UG Ssc#S18549770, 100113409, 100154856, gnl UG Ssc#S35164756, 100517165, gnl UG Ssc#S40081057, gnl UG Ssc#S35168215, gnl UG Ssc#S58311055, gnl UG Ssc#S46880249, gnl UG Ssc#S40223187, 100512860, 100521642, gnl UG Ssc#S58305035, 100155750, gnl UG Ssc#S58312904, gnl UG Ssc#S35170842, 100134963, gnl UG Ssc#S55319287, gnl UG Ssc#S58303097, gnl UG Ssc#S27603082, 414905, gnl UG Ssc#S6055104, 100156104, 396807, gnl UG Ssc#S39838040, gnl UG Ssc#S55323745, gnl UG Ssc#S55321185, gnl UG Ssc#S35164652, 396648, gnl UG Ssc#S58302893, 100216316, 100514302, gnl UG Ssc#S31986194, gnl UG Ssc#S55326096, gnl UG Ssc#S58303440, 100049695, gnl UG Ssc#S46881150, gnl UG Ssc#S35172143, gnl UG Ssc#S35324043, gnl UG Ssc#S35167596</p>	
intracellular organelle (248)	<p>gnl UG Ssc#S29972208, 100153223, 100431101, 100156780, gnl UG Ssc#S46877794, gnl UG Ssc#S31115995, 100154605, gnl UG Ssc#S23213017, 396622, gnl UG Ssc#S17526117, gnl UG Ssc#S35173279, 100157636, gnl UG Ssc#S6072267, gnl UG Ssc#S58305394, 100038029, gnl UG Ssc#S35173164, gnl UG Ssc#S34499650, gnl UG Ssc#S55296793, 100153310, 100037998, 100144541, 768101, gnl UG Ssc#S58313268, 403104, 397652, gnl UG Ssc#S55327328, 100152963, 100517201, gnl UG Ssc#S35167868, 100188907, gnl UG Ssc#S58305209, gnl UG Ssc#S58309386, 100153900, 100516386, gnl UG Ssc#S40268068, 100294678, 100620112, gnl UG Ssc#S35171960, gnl UG Ssc#S35326826, gnl UG Ssc#S58303437, gnl UG Ssc#S58305849, 100514912, 397205, gnl UG Ssc#S58302110, 397507, 100152191, gnl UG Ssc#S40493719, gnl UG Ssc#S14766004, 606746, 100514437, gnl UG Ssc#S58302364, 100521829, gnl UG Ssc#S50197019, gnl UG Ssc#S18360960, 100152612, gnl UG Ssc#S58313248, 100049696, 100174962, gnl UG Ssc#S35174110, gnl UG Ssc#S58312028, 100049674, 397590, 100157546, 100154166, gnl UG Ssc#S18557433, gnl UG Ssc#S58307397, gnl UG Ssc#S35173212, 100154106, gnl UG Ssc#S23213001, gnl UG Ssc#S40222147, 100154005, 100157608,</p>	0.00477

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