

Gene name	Electronically inferred molecular function/biological process (from Flybase)	Gene regulation by rapamycin in S2 cells ¹ (fold change)	Effect on R1/R6 differentiation timing ²	VDRC RNAi stock number
<i>CG1542</i>	Unknown/rRNA processing	↓ 0.5	No	39977
<i>CG1994</i> <i>l(1)G0020</i>	N-acetyltransferase/neurogenesis	↓ 0.2	No	13479, 13479
<i>CG3071</i>	Unknown/retrograde vesicle-mediated transport, Golgi to ER	↓ 0.4	No	29588, 29589
<i>CG3756</i>	DNA Binding, DNA-directed RNA polymerase/transcription from RNA polymerase III promoter, transcription from RNA polymerase I promoter	↓ 0.4	No	15675
<i>CG3838</i>	DNA binding / unknown	↑ 2.4	No	24769
<i>CG4033</i> <i>RpI135</i>	DNA binding, DNA-directed RNA polymerase, ribonucleoside binding/transcription from RNA polymerase I promoter	↓ 0.4	No	37581
<i>CG4620</i> <i>unk</i>	DNA binding, zinc ion binding/bristle, wing and eye morphogenesis	↑ 3.2	Precocious	4267, 104665
<i>CG6603</i> <i>Hsc70Cb</i>	Chaperone binding/protein folding	↓ 0.4	Delay	27680
<i>CG6712</i>	RNA binding/unknown	↓ 0.4	No	39012
<i>CG7006</i>	RNA binding/ribosome assembly	↓ 0.5	No	29514
<i>CG7516</i> <i>l(2)34Fd</i>	Unknown	↓ 0.5	No	28058
<i>CG7993</i>	Unknown/neurogenesis	↓ 0.4	No	35314
<i>CG9710</i> <i>nudC</i>	Unknown/nuclear migration, oogenesis	↓ 0.5	No	104008
<i>CG10648</i> <i>Rbm13</i>	Unknown/mitotic spindle elongation, neurogenesis	↓ 0.3	No	51699
<i>CG11267</i>	Predicted unfolded protein binding/de novo protein folding	↓ 0.4	No	47087
<i>CG12101</i> <i>Hsp60</i>	protein folding, ATP binding / cellular response to heat, mitochondrion organization, NOT response to heat	↓ 0.4	Weak delay	18739
<i>CG12396</i> <i>Nnp-1</i>	Unknown/rRNA processing, rRNA metabolic process	↓ 0.5	No	31927
<i>CG12785</i> <i>Mat89Ba</i>	RNA binding / RNA processing, neurogenesis	↓ 0.1	No	31832
<i>CG31641</i> <i>stai</i>	Tubulin binding, microtubule binding/border follicle cell and germ cell migration, nervous system development, microtubule-	↑ 2.6	No	32370

	<u>based process, regulation of microtubule polymerization or depolymerization</u>			
CG32343 <i>Atac3</i>	Contributes_to <u>histone acetyltransferase activity, sequence-specific DNA binding transcription factor activity/chromatin remodeling, histone acetylation, regulation of transcription, DNA-dependent</u>	↓ 0.4	No	15741, 104585
CG6815 <i>bor</i>	<u>ATP binding, nucleoside-triphosphatase activity/unknown</u>	↓ 0.3	No	
CG3983 <i>ns1</i>	Unknown/ <u>regulation of insulin receptor signaling pathway, regulation of multicellular organism growth</u>	↓ 0.5	No	26066
CG5786 <i>ppan</i>	Unknown/ <u>larval and imaginal disc development, oogenesis, neurogenesis</u>	↓ 0.3	No	39001
CG3949 <i>hoip</i>	<u>mRNA binding/nervous system development, mRNA splicing, via spliceosome, peripheral nervous system development, ribosome biogenesis</u>	↓ 0.3	No	27155
CG1430 <i>bys</i>	Unknown / <u>neurogenesis</u>	↓ 0.4	No	17473
CG4427 <i>cbt</i>	<u>Sequence-specific DNA binding, sequence-specific DNA binding RNA polymerase II transcription factor activity, zinc ion binding/autophagic cell death, dorsal closure, positive regulation of decapentaplegic signaling pathway, salivary gland cell autophagic cell death, sensory organ development, wing disc dorsal/ventral pattern formation, dorsal closure, establishment of planar polarity, eye morphogenesis, germ-band shortening, JNK cascade, positive regulation of transcription, DNA-dependent</u>	↑ 2.3	No	15555
CG1242 <i>Hsp83</i>	<u>ATPase activity, coupled, ATP binding, unfolded protein binding/actin filament organization, centrosome cycle, cold acclimation, mitotic spindle organization, negative regulation</u>	↓ 0.3	Delay	7716

	<p>of transposition, oogenesis, pole plasm mRNA localization, regulation of cell shape, regulation of circadian sleep/wake cycle, sleep, response to heat, spermatogenesis, anterior/posterior axis specification, embryo, protein folding, R7 cell fate commitment, response to heat, torso signaling pathway</p>			
CG6677 ash2	<p>Unknown/chromatin-mediated maintenance of transcription, histone H3-K4 methylation, imaginal disc-derived wing morphogenesis, imaginal disc- derived wing vein specification</p>	↑ 2.2	No	7141