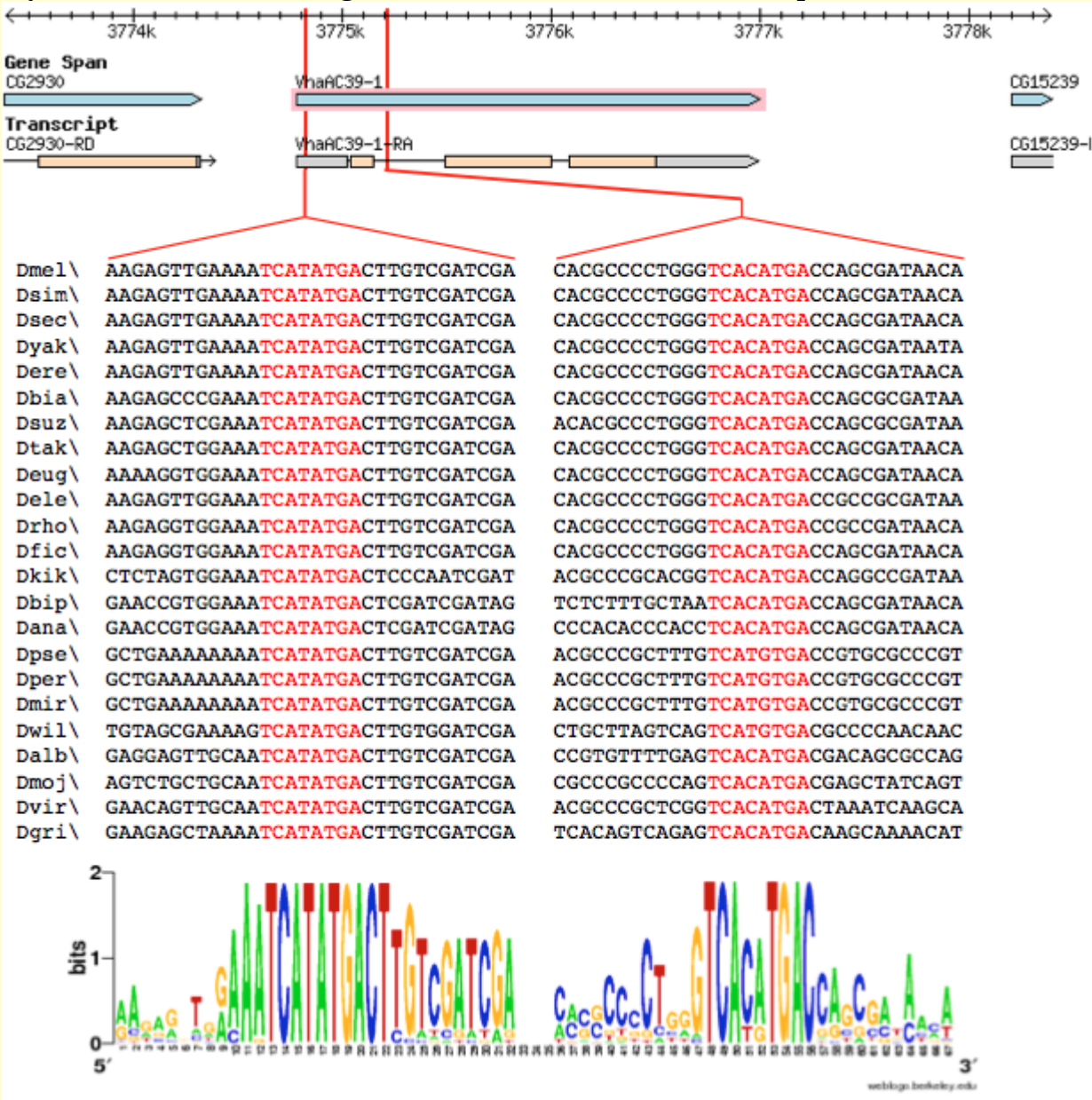


Gene Cluster ID	Atp6v0d
<b>Drosophila melanogaster gene</b>	<b>VhaAC39-1 (CG2934)</b>
FlyBase ID	<a href="#">FBgn0028665</a>
<b>Predicted function</b>	<b>ATPase, H+ transporting, lysosomal 38kDa, V0 subunit d</b>
Protein size	350 amino acids
Cytogenetic map	X:3F4-3F4
Gene sequence location	<a href="#">X:3774773..3777004</a> [+]
<b>Dmel CLEAR sequence</b>	<b>TCATATGA; TCACATGA</b>
CLEAR sequence locations	X:3774820..3774827; X:3775210..3775217
Drosophila Atp6v0d paralog	<a href="#">VhaAC39-2</a>

FlyBase Vha39-1 (CG2934) gene model & CLEAR element (red) positions:



Drosophila Atp6v0d gene structure comparison:

Key: UTR region, CDS region

Species	Atp6v0d orthologs	5'exon		intron	exon	intron	exon3'		Extended CLEAR region	Position	bps from TSS
<i>Drosophila_melanogaster</i>	<a href="#">Dmel\VhaAC39-1</a>	249	127	338	509	90	417	502	aagagttgaaaaTCATATGActtgatcgacga cacgcccctgggTCACATGAccagcgataaca	5'UTR intron1	47 437
<i>Drosophila_simulans</i>	<a href="#">Dsim\GD16660*</a>		127	348	509	90	417		aagagttgaaaaTCATATGActtgatcgacga cacgcccctgggTCACATGAccagcgataaca	5'UTR? intron1	
<i>Drosophila_sechellia</i>	<a href="#">Dsec\GM12314</a>		127	348	509	90	417		aagagttgaaaaTCATATGActtgatcgacga cacgcccctgggTCACATGAccagcgataaca	5'UTR? intron1	
<i>Drosophila_yakuba</i>	<a href="#">Dyak\GE16319</a>		127	384	509	70	417		aagagttgaaaaTCATATGActtgatcgacga cacgcccctgggTCACATGAccagcgataata	5'UTR? intron1	
<i>Drosophila_erecta</i>	<a href="#">Dere\GG18679</a>		127	369	509	90	417		aagagttgaaaaTCATATGActtgatcgacga cacgcccctgggTCACATGAccagcgataaca	5'UTR? intron1	
<i>Drosophila_biarmipes</i>	<a href="#">Dbia\VhaAC39-1</a>		127	658	509	357	417		aagagcccgaTCATATGActtgatcgacga cacgcccctgggTCACATGAccagcgataaa	5'UTR? intron1	
<i>Drosophila_suzukii</i>	<a href="#">Dsuz\VhaAC39-1</a>		127	671	509?	ND	417?		aagagctcgaaaTCATATGActtgatcgacga acagcccctgggTCACATGAccagcgataaa	5'UTR? intron1	
<i>Drosophila_takahashii</i>	<a href="#">Dtak\VhaAC39-1</a>		127	660	509	357	417		aagagctggaaaTCATATGActtgatcgacga cacgcccctgggTCACATGAccagcgataaca	5'UTR? intron1	
<i>Drosophila_eugracilis</i>	<a href="#">Deug\VhaAC39-1</a>		127	536	509	162	417		aaaaggtgaaaTCATATGActtgatcgacga cacgcccctgggTCACATGAccagcgataaca	5'UTR? intron1	
<i>Drosophila_elegans</i>	<a href="#">Dele\VhaAC39-1</a>		127	899	509	731	417		aagagttgaaaTCATATGActtgatcgacga cacgcccctgggTCACATGAccgcccataaa	5'UTR? intron1	
<i>Drosophila_rhopaloea</i>	<a href="#">Drho\VhaAC39-1</a>		127	734	509	350	417		aagaggtgaaaTCATATGActtgatcgacga cacgcccctgggTCACATGAccgcccataaca	5'UTR? intron1	
<i>Drosophila_ficusphila</i>	<a href="#">Dfic\VhaAC39-1</a>		127	579	509	279	417		aagaggtgaaaTCATATGActtgatcgacga cacgcccctgggTCACATGAccagcgataaca	5'UTR? intron1	
<i>Drosophila_kikkawai</i>	<a href="#">Dkik\VhaAC39-1</a>		127	539	509	76	417		ctctagtggaaaTCATATGActcccaatcgat acgcccgcacggTCACATGAccagggcgataaa	5'UTR? intron1	
<i>Drosophila_bipectinata</i>	<a href="#">Dbip\VhaAC39-1</a>		127	431	509	60	417		gaaccgtggaaaTCATATGActcgatcgatag tctcttgctaaTCACATGAccagcgataaca	5'UTR? intron1	
<i>Drosophila_ananassae</i>	<a href="#">Dana\GF21182</a>		127	471	509	81	417		gaaccgtggaaaTCATATGActcgatcgatag cccacaccaccTCACATGAccagcgataaca	5'UTR? intron1	
<i>Drosophila_pseudoobscura</i>	<a href="#">Dpse\GA15530</a>		127	237	509	68	417		gctgaaaaaaaaTCATATGActtgatcgacga acgcccgtttgTCATGTGAccgtgcccgt	5'UTR? intron1	
<i>Drosophila_persimilis</i>	<a href="#">Dper\GL14761</a>		127	237	509	68	417		gctgaaaaaaaaTCATATGActtgatcgacga acgcccgtttgTCATGTGAccgtgcccgt	5'UTR? intron1	
<i>Drosophila_miranda</i>	<a href="#">Dmir\Vha39-1</a>		127	235	509	68	417		gctgaaaaaaaaTCATATGActtgatcgacga acgcccgtttgTCATGTGAccgtgcccgt	5'UTR? intron1	

<i>Drosophila_willistoni</i>	<a href="#">Dwil\GK10228</a>		127	409	509	71	417		tgtagcgaaaagTCATATGActtgatcgacga ctgcttagtcagTCATGTGAcgccccacaac	5'UTR? intron1	
<i>Drosophila_albomicans</i>	<a href="#">Dalb\Vha39-1</a>		127	409	509	71	417		gaggagttgcaaTCATATGActtgatcgacga ccgtgttttgagTCACATGAcgacagcgccag	5'UTR? intron1	
<i>Drosophila_mojavensis</i>	<a href="#">Dmoj\GI16480</a>		127	733	509	61	417		agtctgctgcaaTCATATGActtgatcgacga cgccccccagTCACATGAcgagctatcagt	5'UTR? intron1	
<i>Drosophila_virilis</i>	<a href="#">Dvir\GJ16024</a>		127	244	509	190	417		gaacagttgcaaTCATATGActtgatcgacga acgcccgcctggTCACATGActaatcaagca	5'UTR' intron1	
<i>Drosophila_grimshawi</i>	<a href="#">Dgri\GH17612</a>		127	811	509	63	423		gaagagctaaaaTCATATGActtgatcgacga tcacagtcagagTCACATGAcaagcaaacat	5'UTR? intron1	

Paralogs: VhaAC39-2 (CG4624)

<i>Drosophila_melanogaster</i>	<a href="#">Dmel\VhaAC39- 2</a>	77	686	67	367	103		
<i>Drosophila_simulans</i>	<a href="#">Dsim\GD18401</a>		686	59	ND			
<i>Drosophila_sechellia</i>	<a href="#">Dsec\GM23587</a>		686	59	367			
<i>Drosophila_yakuba</i>	<a href="#">Dyak\GE23978</a>		686	58	367			
<i>Drosophila_erecta</i>	<a href="#">Dere\GG12455</a>		686	66	367			
<i>Drosophila_biarmipes</i>	<a href="#">Dbia\VhaAC39- 2</a>		686	57	367			
<i>Drosophila_takahashii</i>	<a href="#">Dtak\VhaAC39- 2</a>		686	192	367			
<i>Drosophila_suzukii</i>	<a href="#">Dsuz\VhaAC39- 2</a>		686	60	367			
<i>Drosophila_eugracilis</i>	<a href="#">Deug\VhaAC39- 2</a>		686	57	367			
<i>Drosophila_ficusphila</i>	<a href="#">Dfic\VhaAC39-2</a>		686	59	367			
<i>Drosophila_elegans</i>	<a href="#">Dele\VhaAC39- 2</a>		686	84	367			
<i>Drosophila_rhopaloea</i>	<a href="#">Drho\VhaAC39- 2</a>		686	121	367			
<i>Drosophila_kikkawai</i>	<a href="#">Dkik\VhaAC39- 2</a>		686	57	370			
<i>Drosophila_bipectinata</i>	<a href="#">Dbip\VhaAC39- 2</a>		683	62	370			
<i>Drosophila_ananassae</i>	<a href="#">Dana\GF18027</a>		683	51	370			

<i>Drosophila_pseudoobscura</i>	<a href="#">Dpse\GA18311</a>		1047		
<i>Drosophila_persimilis</i>	<a href="#">Dper\GL23045</a>		1047		
<i>Drosophila_miranda</i>	<a href="#">Dmir\VhaAC39-2</a>		1047		
<i>Drosophila_willistoni</i>	<a href="#">Dwil\GK22588</a>		1062		
<i>Drosophila_albomicans</i>	Dalb\VhaAC39-2		ND		
<i>Drosophila_mojavensis</i>	<a href="#">Dmoj\GI10510</a>		1056		
<i>Drosophila_virilis</i>	<a href="#">Dvir\GJ23190</a>		1059		
<i>Drosophila_grimshawi</i>	<a href="#">Dgri\GH21449</a>		1056		
Key: UTR region, CDS region					