

Gene Cluster ID	Atp6v0e
<b>Drosophila melanogaster gene</b>	<b>VhaM9.7-b (CG7625)</b>
FlyBase ID	<a href="#">FBgn0028663</a>
<b>Predicted function</b>	<b>ATPase, H<sup>+</sup> transporting, lysosomal 9kDa, V0 subunit e</b>
Protein size	89 amino acids
Cytogenetic map	3L: <a href="#">78D5-78D5</a>
Gene sequence location	<a href="#">3L:21532946..21533798</a> [+]
<b>Dmel CLEAR sequence</b>	<b>TCATGTGA</b>
CLEAR sequence location	3L:21532984..21532991
Drosophila Atp6v0e paralogs	<a href="#">VhaM9.7-a</a> (CG1268); <a href="#">VhaM9.7-c</a> (CG11589); <a href="#">VhaM9.7-d</a> (CG14909)

FlyBaseVhaM9.7-b (CG7625) gene model & CLEAR element (red) position:



Atp6v0e gene structure comparison:

Key: UTR region, CDS region

Species	Atp6v0e orthologs	5'exon		intron	exon	intron	exon3'		Extended CLEAR region	Position	bps from TSS
Drosophila_melanogaster	<a href="#">DmelVhaM9.7-b</a>	142	95	70	48	68	127	303	gggacatgtccgTCATGTGAtattcgttctc	5'UTR	38

<i>Drosophila_simulans</i>	<a href="#">Dsim\GD14971</a>		95	70	48	105	127		gggacatgtccgTCATGTGAtattcggtgctc	5'UTR?	
<i>Drosophila_sechellia</i>	<a href="#">Dsec\GM22381</a>		95	70	48	105	127		gggacatgtccgTCATGTGAtattcggtgctc	5'UTR?	
<i>Drosophila_yakuba</i>	<a href="#">Dyak\GE19768</a>		95	63	48	101	127		gggacatgttcgTCATGTGAtattcggtgctc	5'UTR?	
<i>Drosophila_erecta</i>	<a href="#">Dere\GG16199</a>		95	58	48	100	127		gggacatgttcgTCATGTGAtattcggtgctc	5'UTR?	
<i>Drosophila_biarmipes</i>	<a href="#">Dbia\VhaM9.7-b</a>		95	53	48	111	127		gggacatgtccgTCATGTGAtattcggtgctc	5'UTR?	
<i>Drosophila_suzukii</i>	<a href="#">Dsuz\VhaM9.7-b</a>		95	51	48	106	127		gggacatgtccgTCATGTGAtattcggtgctc	5'UTR?	
<i>Drosophila_takahashii</i>	<a href="#">Dtak\VhaM9.7-b</a>		95	70	48	102	127		tgggactgtccgTCATGTGAtattcggtgctc	5'UTR?	
<i>Drosophila_eugracilis</i>	<a href="#">Deug\VhaM9.7-b</a>		95	52	48	59	127		gggacaagtccgTCATGTGAtattcggtgctc	5'UTR?	
<i>Drosophila_elegans</i>	<a href="#">Dele\VhaM9.7-b</a>		95	56	48	84	127		gttccatgtccgTCATGTGAtattcggtgctc	5'UTR?	
<i>Drosophila_rhopaloea</i>	<a href="#">Drho\VhaM9.7-b</a>		95	56	48	78	127		gttccatgtccgTCATGTGAtattcggtgctc	5'UTR?	
<i>Drosophila_ficusphila</i>	<a href="#">Dfic\VhaM9.7-b</a>		95	56	48	78	127		tcccatgtccgTCATGTGAtattcggtgctc	5'UTR?	
<i>Drosophila_kikkawai</i>	<a href="#">Dkik\VhaM9.7-b</a>		95	54	48	72	127		cctgtgcacctgTCATGTGAtatttttactc	5'UTR?	
<i>Drosophila_bipectinata</i>	<a href="#">Dbip\VhaM9.7-b</a>		95	59	48	92	127		catgttcagctgTCATGTGAtattcggtgctc	5'UTR?	
	<a href="#">Dbip\VhaM9.7-b2</a>		270								
<i>Drosophila_ananassae</i>	<a href="#">Dana\GF23725</a>		95	59	48	92	127		catgttcagctgTCATGTGAtattcggtgctc	5'UTR?	
<i>Drosophila_pseudoobscura</i>	<a href="#">Dpse\GA20488</a>		98	54	48	105	127		gtcccatgtctgTCATGTGAtattcattgctc	5'UTR?	
<i>Drosophila_persimilis</i>	<a href="#">Dper\GL11891</a>		98	54	48	105	127		gtcccatgtctgTCATGTGAtattcattgctc	5'UTR?	
<i>Drosophila_miranda</i>	<a href="#">Dmir\VhaM9.7-b</a>		98	54	48	105	127		gtcccatgtctgTCATGTGAtattcattgctc	5'UTR?	
<i>Drosophila_willistoni</i>	<a href="#">Dwil\GK17834</a>		95	81	48	348	127		atgttggggctgTCATGTGAttgatattcatt	5'UTR?	
<i>Drosophila_albomicans</i>	<a href="#">Dalb\VhaM9.7-b</a>		95	65	48	102	127		gtcccatgtctgTCATGTGAtattcatactga	5'UTR?	
<i>Drosophila_mojavensis</i>	<a href="#">Dmoj\Tes122</a>		95	75	48	118	127		gtcccatggctgTCATGTGAtattcataagat	5'UTR?	
<i>Drosophila_virilis</i>	<a href="#">Dvir\GJ13542</a>		95	58	48	123	127		gtcccatggctgTCATGTGAtattcatacagc	5'UTR?	

<i>Drosophila_grimshawi</i>	<a href="#">Dgri\GH14789</a>		95	71	48	114	127		gtcccatgtctgTCATGTGAtattcacacgc	5'UTR?	
Paralog:VhaM9.7-a (CG1268)											
<i>Drosophila_melanogaster</i>	<a href="#">Dmel\VhaM9.7-a</a>	20	258				162				
<i>Drosophila_simulans</i>	<a href="#">Dsim\VhaM9.7-a</a>		258								
<i>Drosophila_sechellia</i>	<a href="#">Dsec\GM14641</a>		258								
<i>Drosophila_yakuba</i>	<a href="#">Dyak\GE21432</a>		258								
<i>Drosophila_erecta</i>	<a href="#">Dere\GG15212</a>		258								
<i>Drosophila_biarmipes</i>	<a href="#">Dbia\VhaM9.7-a</a>		258								
<i>Drosophila_suzukii</i>	<a href="#">Dsuz\VhaM9.7-a</a>		258								
<i>Drosophila_takahashii</i>	<a href="#">Dtak\VhaM9.7-a</a>		258								
<i>Drosophila_eugracilis</i>	<a href="#">Deug\VhaM9.7-a</a>		258								
<i>Drosophila_elegans</i>	<a href="#">Dele\VhaM9.7-a</a>		258								
<i>Drosophila_rhopaloea</i>	<a href="#">Drho\VhaM9.7-a</a>		258								
<i>Drosophila_ficusphila</i>	<a href="#">Dfic\VhaM9.7-a</a>		258								
<i>Drosophila_kikkawai</i>	<a href="#">Dkik\VhaM9.7-a</a>		258								
<i>Drosophila_bipectinata</i>	<a href="#">Dbip\VhaM9.7-a</a>		258								
<i>Drosophila_ananassae</i>	<a href="#">Dana\GF20098</a>		258								
<i>Drosophila_pseudoobscura</i>	<a href="#">Dpse\GA11753</a>		258								
<i>Drosophila_persimilis</i>	<a href="#">Dper\GL12843</a>		258								
<i>Drosophila_miranda</i>	<a href="#">Dmir\VhaM9.7-a</a>		258								
<i>Drosophila_willistoni</i>	<a href="#">Dwil\GK19005</a>		258								
<i>Drosophila_albomicans</i>	<a href="#">Dalb\VhaM9.7-a</a>		261								

<i>Drosophila_mojavensis</i>	<a href="#">Dmoj\GI16589</a>		258			
<i>Drosophila_virilis</i>	<a href="#">Dvir\GI12841</a>		258			
<i>Drosophila_grimshawi</i>	<a href="#">Dgri\GH15937</a>		258			
Paralog: VhaM9.7-c (CG11589)						
<i>Drosophila_melanogaster</i>	<a href="#">Dmel\VhaM9.7- c</a>		255			
<i>Drosophila_simulans</i>	<a href="#">Dsim\GD13283</a>		255			
<i>Drosophila_sechellia</i>	<a href="#">Dsec\GM14003</a>		255			
<i>Drosophila_yakuba</i>	<a href="#">Dyak\GE20639</a>		255			
<i>Drosophila_erecta</i>	<a href="#">Dere\GG14211</a>		255			
<i>Drosophila_biarmipes</i>	<a href="#">Dbia\VhaM9.7- c</a>		255			
<i>Drosophila_suzukii</i>	<a href="#">Dsuz\VhaM9.7- c</a>		255			
<i>Drosophila_takahashii</i>	<a href="#">Dtak\VhaM9.7- c</a>		255			
<i>Drosophila_eugracilis</i>	<a href="#">Deug\VhaM9.7- c</a>		255			
<i>Drosophila_elegans</i>	<a href="#">Dele\VhaM9.7- c</a>		255			
<i>Drosophila_rhopaloea</i>	<a href="#">Drho\VhaM9.7- c</a>		255			
<i>Drosophila_ficusphila</i>	<a href="#">Dfic\VhaM9.7-c</a>		255			
<i>Drosophila_kikkawai</i>	<a href="#">Dkik\VhaM9.7- c</a>		255			
<i>Drosophila_bipectinata</i>	<a href="#">Dbjp\VhaM9.7- c</a>		252			
<i>Drosophila_ananassae</i>	<a href="#">Dana\GF20059</a>		252			
<i>Drosophila_pseudoobscura</i>	<a href="#">Dpse\GA11084</a>		255			
<i>Drosophila_persimilis</i>	<a href="#">Dper\GL12731</a>		255			
<i>Drosophila_miranda</i>	<a href="#">Dmir\VhaM9.7- c</a>		255			
<i>Drosophila_willistoni</i>						

<i>Drosophila_albomicans</i>	<a href="#">Dalb\VhaM9.7-c</a>		258			
<i>Drosophila_mojavensis</i>	<a href="#">Dmoj\GI16823</a>		258			
<i>Drosophila_virilis</i>	<a href="#">Dvir\GI12571</a>		258			
<i>Drosophila_grimshawi</i>	<a href="#">Dgri\GH15548</a>		279			
Paralog: VhaM9.7-d (CG14909)						
<i>Drosophila_melanogaster</i>	<a href="#">Dmel\VhaM9.7-d</a>	14	267	213		
<i>Drosophila_simulans</i>	<a href="#">Dsim\GD19123</a>		267			
<i>Drosophila_sechellia</i>	<a href="#">Dsec\GM15188</a>		267			
<i>Drosophila_yakuba</i>	<a href="#">Dyak\GE24594</a>		267			
<i>Drosophila_erecta</i>	<a href="#">Dere\GG21840</a>		267			
<i>Drosophila_biarmipes</i>	<a href="#">Dbia\VhaM9.7-d</a>		267			
<i>Drosophila_suzukii</i>	<a href="#">Dsuz\VhaM9.7-d</a>		267			
<i>Drosophila_takahashii</i>	<a href="#">Dtak\VhaM9.7-d</a>		267			
<i>Drosophila_eugracilis</i>	<a href="#">Deug\VhaM9.7-d</a>		267			
<i>Drosophila_elegans</i>	<a href="#">Dele\VhaM9.7-d</a>		267			
<i>Drosophila_rhopaloea</i>	<a href="#">Drho\VhaM9.7-d</a>		267			
<i>Drosophila_ficusphila</i>	<a href="#">Dfic\VhaM9.7-d</a>		267			
<i>Drosophila_kikkawai</i>	<a href="#">Dkik\VhaM9.7-d</a>		267			
<i>Drosophila_bipectinata</i>	<a href="#">Dbip\VhaM9.7-d</a>		267			
<i>Drosophila_ananassae</i>	<a href="#">Dana\GF17072</a>		267			
<i>Drosophila_pseudoobscura</i>	<a href="#">Dpse\GA13345</a>		267			
<i>Drosophila_persimilis</i>	<a href="#">Dper\GL24534</a>		267			

<i>Drosophila_miranda</i>	<a href="#">Dmir\VhaM9.7-d</a>		267				
<i>Drosophila_willistoni</i>	<a href="#">Dwi\GK18963</a>		267				
<i>Drosophila_albomicans</i>							
<i>Drosophila_mojavensis</i>	<a href="#">Dmoj\GI23846</a>		267				
<i>Drosophila_virilis</i>	<a href="#">Dvir\GJ10560</a>		267				
<i>Drosophila_grimshawi</i>	<a href="#">Dgr\GH19550</a>		267				