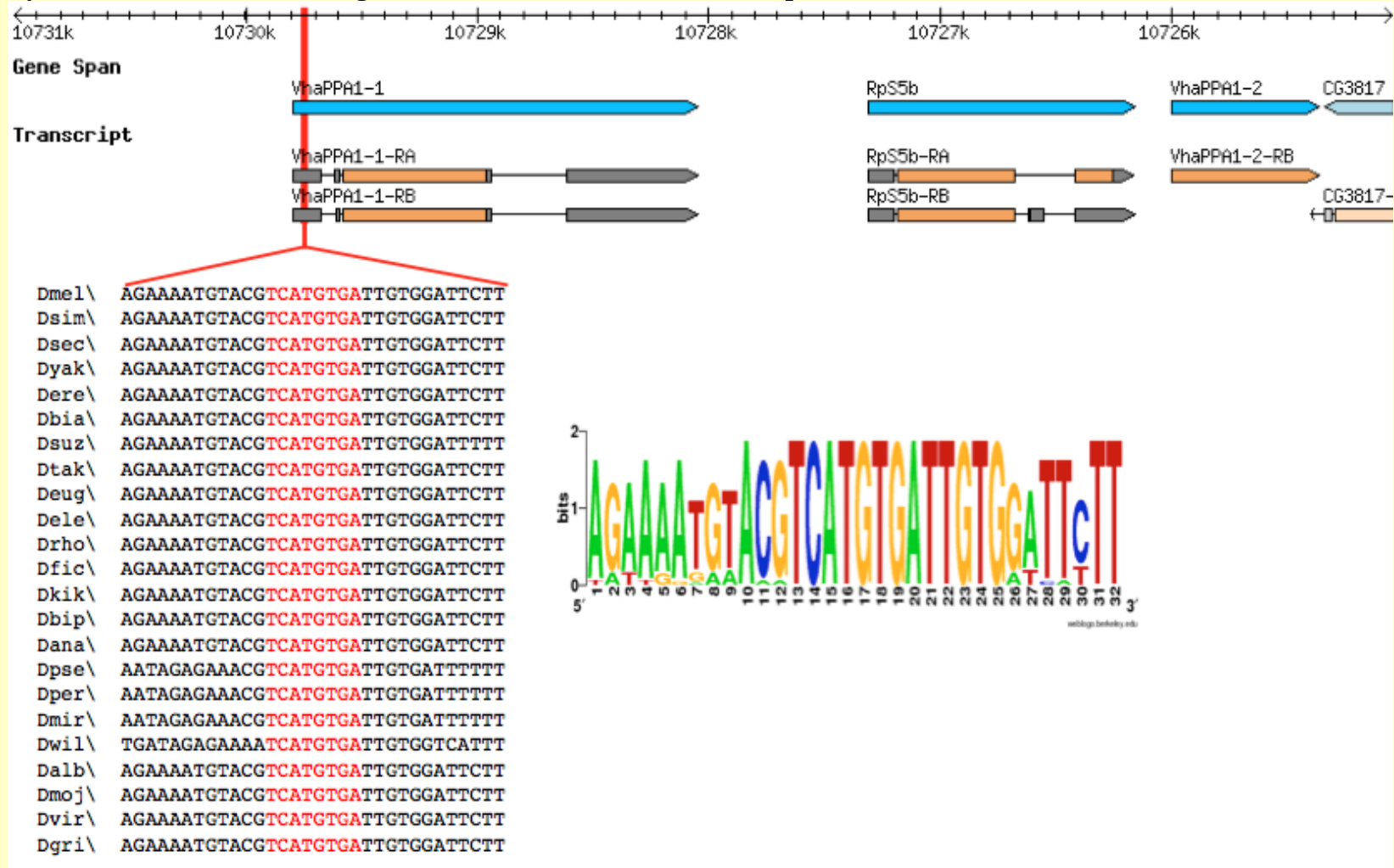


Gene Cluster ID	Atp6v0b
Drosophila melanogaster gene	VhaPPA1-1 (CG7007)
FlyBase ID	FBgn0028662
Predicted function	ATPase, H⁺ transporting, V0 subunit b
Protein size	212 amino acids
Cytogenetic map	3R:88D6-88D6
Gene sequence location	3R:10728048..10729796 [-]
Dmel CLEAR sequence	TCATGTGA
CLEAR sequence location	3R: 10729742.. 10729749[-]
Drosophila Atp6v0b paralog	VhaPPA1-2 (CG7026)

FlyBase VhaPPA1-1 (CG7007)gene model & CLEAR element (red) position:



Atp6v0b gene structure comparison:

Key: UTR region, CDS region

Species	Atp6v0b orthologs	5'exon	intron	exon3'	Extended CLEAR region	Position	bps from TSS
<i>Drosophila_melanogaster</i>	DmelVhaPPA1-1	124	59	19 639 502	agaaaatgtacgTCATGTGAttgtggattctt	5'UTR	47

<i>Drosophila_simulans</i>	Dsim\GD20390				639		agaaaatgtacgTCATGTGAttgtggattctt	5'UTR?	
<i>Drosophila_sechellia</i>	Dsec\GM25814				639		agaaaatgtacgTCATGTGAttgtggattctt	5'UTR?	
<i>Drosophila_yakuba</i>	Dyak\GE26419				639		agaaaatgtacgTCATGTGAttgtggattctt	5'UTR?	
<i>Drosophila_erecta</i>	Dere\GG20968				639		agaaaatgtacgTCATGTGAttgtggattctt	5'UTR?	
<i>Drosophila_biarmipes</i>	Dbia\VhaPPA1-1				639		agaaaatgtacgTCATGTGAttgtggattctt	5'UTR?	
<i>Drosophila_suzukii</i>	Dsuz\VhaPPA1-1				639		agaaaatgtacgTCATGTGAttgtggattttt	5'UTR?	
<i>Drosophila_takahashii</i>	Dtak\VhaPPA1-1				639		agaaaatgtacgTCATGTGAttgtggattctt	5'UTR?	
<i>Drosophila_eugracilis</i>	Deug\VhaPPA1-1				639		agaaaatgtacgTCATGTGAttgtggattctt	5'UTR?	
<i>Drosophila_elegans</i>	Dele\VhaPPA1-1				639		agaaaatgtacgTCATGTGAttgtggattctt	5'UTR?	
<i>Drosophila_rhopaloea</i>	Drho\VhaPPA1-1				639		agaaaatgtacgTCATGTGAttgtggattctt	5'UTR?	
<i>Drosophila_ficusphila</i>	Dfic\VhaPPA1-1				639		agaaaatgtacgTCATGTGAttgtggattctt	5'UTR?	
<i>Drosophila_kikkawai</i>	Dkik\VhaPPA1-1				639		agaaaatgtacgTCATGTGAttgtggattctt	5'UTR?	
<i>Drosophila_bipectinata</i>	Dbip\VhaPPA1-1				639		agaaaatgtacgTCATGTGAttgtggattctt	5'UTR?	
<i>Drosophila_ananassae</i>	Dana\GF17169				639		agaaaatgtacgTCATGTGAttgtggattctt	5'UTR?	
<i>Drosophila_pseudoobscura</i>	Dpse\GA20025				639		aatagagaaacgTCATGTGAttgtgattttt	5'UTR?	
<i>Drosophila_persimilis</i>	Dper\GL21698				639		aatagagaaacgTCATGTGAttgtgattttt	5'UTR?	
<i>Drosophila_miranda</i>	Dmir\VhaPPA1-1				639		aatagagaaacgTCATGTGAttgtgattttt	5'UTR?	
<i>Drosophila_willistoni</i>	Dwi\NGK11008				639		tgatagagaaaaTCATGTGAttgtggtcattt	5'UTR?	
<i>Drosophila_albomicans</i>	Dalb\VhaPPA1-1				639		agaaaatgtacgTCATGTGAttgtggattctt	5'UTR?	
<i>Drosophila_mojavensis</i>	Dmoj\GI22994				639		agaaaatgtacgTCATGTGAttgtggattctt	5'UTR?	
<i>Drosophila_virilis</i>	Dvir\GI24692				639		agaaaatgtacgTCATGTGAttgtggattctt	5'UTR'	
<i>Drosophila_grimshawi</i>	Dgri\GH19517				639		agaaaatgtacgTCATGTGAttgtggattctt	5'UTR?	

Paralog: VhaPPA1-2 (CG7026)

<i>Drosophila_melanogaster</i>	Dmel\VhaPPA1- 2				639				
<i>Drosophila_simulans</i>	Dsim\GD20392				627				
<i>Drosophila_sechellia</i>	Dsec\GM25816				627				
<i>Drosophila_yakuba</i>	Dyak\GE26421				639				
<i>Drosophila_erecta</i>	Dere\GG20990				627				
<i>Drosophila_biarmipes</i>	Dbia\VhaPPA1- 2				627				
<i>Drosophila_suzukii</i>	Dsuz\VhaPPA1- 2				627				
<i>Drosophila_takahashii</i>	Dtak\VhaPPA1- 2				627				
<i>Drosophila_eugracilis</i>	Deug\VhaPPA1- 2				627				
<i>Drosophila_elegans</i>	Dele\VhaPPA1- 2				627				
<i>Drosophila_rhopaloea</i>	Drho\VhaPPA1- 2				627				
<i>Drosophila_ficusphila</i>	Dfic\VhaPPA1-2				627				
<i>Drosophila_kikkawai</i>	Dkik\VhaPPA1- 2				627				
<i>Drosophila_bipectinata</i>	Dbip\VhaPPA1- 2				627				
<i>Drosophila_ananassae</i>	Dana\GF17172*				627				
<i>Drosophila_pseudoobscura</i>	Dpse\GA26375				624				
<i>Drosophila_persimilis</i>	Dper\GL21700				624				
<i>Drosophila_miranda</i>	Dmir\VhaPPA1- 2				624				
<i>Drosophila_willistoni</i>	Dwil\GK13787				630				
<i>Drosophila_albomicans</i>	Dalb\VhaPPA1- 2				621				
<i>Drosophila_mojavensis</i>	Dmoj\GI22996				624				
<i>Drosophila_virilis</i>	Dvir\GJ24694				624				

<i>Drosophila_grimshawi</i>	Dgri\GH19519				624			
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Key: UTR region, CDS region