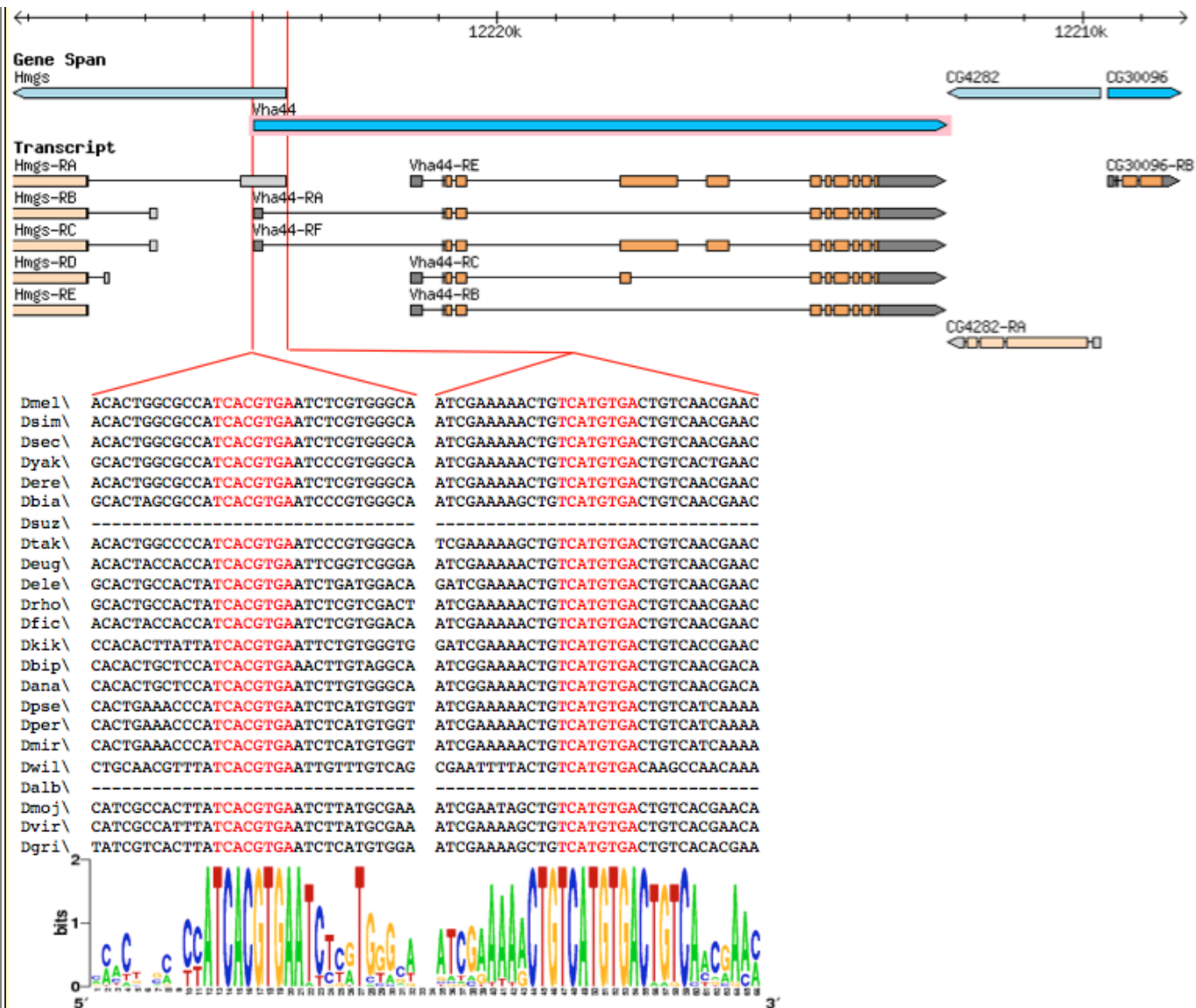


Gene Cluster ID	Atp6v1C
Drosophila melanogaster gene	Vha44 (CG8048)
FlyBase ID	FBgn0262511
Predicted function	ATPase, H⁺ transporting, lysosomal 42kDa, V1 subunit C
Protein size	388 amino acids (PA)
Cytogenetic map	2R:53B5-53C1
Gene sequence location	2R:12212318..12224142 [-]
Dmel CLEAR sequence	TCACGTGA; TCATGTGA
CLEAR sequence location	2R:12224183..12224190; 2R:12223570..12223577
FlyBase gene model & CLEAR element (red) positions:	



Atp6v1C (Vha44-RA) gene structure comparison:

Key: **UTR region**, **CDS region**

Species	Vha44-RA (Atp6v1C) orthologs	5'exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon3'	Extended CLEAR region	Position	bps from TSS	
Drosophila_melanogaster	DmelVha44	148	3069	8	135	90	154	5873	187	64	99	62	256	62	98	59	139	70	99	1153	5' intron1	-40 565

<i>Drosophila_simulans</i>	Dsim\GD25545	ND	ND		135	77	154	5099	187	58	99	63	256	62	98	59	139	67	99	ND	acactggcgccaTCACGTGAatctctgtggga atcgaaaaactgTCATGTGActgtcaacgaac	5' intron1?	
<i>Drosophila_sechellia</i>	Dsec\GM20063	ND	ND		135	85	154	4304	187	63	99	62	256	63	98	59	139	67	99	ND	acactggcgccaTCACGTGAatctctgtggga atcgaaaaactgTCATGTGActgtcaacgaac	5' intron1?	
<i>Drosophila_yakuba</i>	Dyak\GE14069*	ND	ND		135	64	154	5734	187	64	99	62	256	62	98	62	139	67	99	ND	gcactggcgccaTCACGTGAatccgtgtggga atcgaaaaactgTCATGTGActgtcaacgaac	5' intron1?	
<i>Drosophila_erecta</i>	Dere\GG22273	ND	ND		135	86	154	5862	187	64	99	60	256	62	98	60	139	67	99	ND	acactggcgccaTCACGTGAatctctgtggga atcgaaaaactgTCATGTGActgtcaacgaac	5' intron1?	
<i>Drosophila_biarmipes</i>	Dbia\Vha44	ND	ND		135	75	154	5801	187	465	99	60	256	62	98	60	139	65	99	ND	gcactagcgccaTCACGTGAatccgtgtggga atcgaaaaactgTCATGTGActgtcaacgaac	5' intron1?	
<i>Drosophila_suzukii</i>	Dsuz\Vha44	ND	ND		135	118	154	ND	ND	ND	99?	60	256	61	98	63	139	ND	99	ND	ND		
<i>Drosophila_takahashii</i>	Dtak\Vha44	ND	ND		135	344	154	5616	187	579	99	61	256	62	98	62	139	63	99	ND	acactggccccaTCACGTGAatccgtgtggga tcgaaaaactgTCATGTGActgtcaacgaac	5' intron1?	
<i>Drosophila_eugracilis</i>	Deug\Vha44	ND	ND		135	110	154	5912	187	60	99	59	256	62	98	61	139	67	99	ND	acactaccaccaTCACGTGAatctgtgtggga atcgaaaaactgTCATGTGActgtcaacgaac	5' intron1?	
<i>Drosophila_elegans</i>	Dele\Vha44	ND	ND		135	137	154	6020	187	77	99	74	256	70	98	68	139	70	99	ND	gcactgccactaTCACGTGAatctgtatggaca gatcgaaaaactgTCATGTGActgtcaacgaac	5' intron1?	
<i>Drosophila_rhopaloea</i>	Drho\Vha44	ND	ND		135	181	154	5622	187	68	99	60	256	62	98	64	139	65	99	ND	gcactgccactaTCACGTGAatctgtctgact atcgaaaaactgTCATGTGActgtcaacgaac	5' intron1?	
<i>Drosophila_ficusphila</i>	Dfic\Vha44	ND	ND		135	134	154	5711	187	59	99	62	256	62	98	61	139	68	99	ND	acactaccaccaTCACGTGAatctgtgtggaca atcgaaaaactgTCATGTGActgtcaacgaac	5' intron1?	
<i>Drosophila_kikkawai</i>	Dkik\Vha44	ND	ND		135	57	154	5890	187	67	99	64	256	66	98	65	139	74	99	ND	ccacacttattaTCACGTGAatctgtgtgtgtg gatcgaaaaactgTCATGTGActgtcaccgaac	5' intron1?	
<i>Drosophila_bipectinata</i>	Dbip\Vha44	ND	ND		135	131	154	5782	187	62	99	60	256	61	98	63	139	58	99	ND	cacactgtctccaTCACGTGAaactgttaggaca atcgaaaaactgTCATGTGActgtcaacgaca	5' intron1?	
<i>Drosophila_ananassae</i>	Dana\GF11269	ND	ND		135	60	154	4919	187	61	99	65	256	59	98	61	139	63	99	ND	cacactgtctccaTCACGTGAatctgtgtggga atcgaaaaactgTCATGTGActgtcaacgaca	5' intron1?	
<i>Drosophila_pseudoobscura</i>	Dpse\GA20788	ND	ND		135	61	154	5678	187	72	99	71	256	67	98	66	139	67	99	ND	cactgaaaccaTCACGTGAatctcatgtgtg atcgaaaaactgTCATGTGActgtcatcaaaa	5' intron1?	
<i>Drosophila_persimilis</i>	Dper\GL11349	ND	ND		135	61	154	6037	187	72	99	71	256	67	98	66	139	67	99	ND	cactgaaaccaTCACGTGAatctcatgtgtg atcgaaaaactgTCATGTGActgtcatcaaaa	5' intron1?	
<i>Drosophila_miranda</i>	Dmir\Vha44	ND	ND		135	61	154	5925	187	72	99	71	256	67	98	66	139	67	99	ND	cactgaaaccaTCACGTGAatctcatgtgtg atcgaaaaactgTCATGTGActgtcatcaaaa	5' intron1?	
<i>Drosophila_willistoni</i>	Dwil\GK21692	ND	ND		135	65	154	8442	187	76	99	58	256	75	237			70	99	ND	ctgcaactgtttaTCACGTGAatgtttgtcag cgaattttactgTCATGTGAcaagccaacaaa	5' intron1?	
<i>Drosophila_albomicans</i>	Dalb\Vha44	ND	ND		132	68	154	6951	187	97	99	71	256	71	98	85	139	65	99	ND	ND		
<i>Drosophila_mojavensi</i>	Dmoj\GI19629	ND	ND		132	63	154	6772	187	77	99	77	256	63	98	268	139	58	99	ND	catcgccactaTCACGTGAatcttatcgaa atcgaatagctgTCATGTGActgtcacaacaa	5' intron1?	
<i>Drosophila_virilis</i>	Dvir\GJ14996	ND	ND		135	65	154	6765	187	63	99	137	256	62	98	62	139	56	99	ND	catcgccatttaTCACGTGAatcttatcgaa atcgaaaactgTCATGTGActgtcacaacaa	5' intron1?	
<i>Drosophila_grimshawi</i>	Dgri\GH21923	ND	ND		135	70	154	6549	187	84	99	103	256	75	98	61	142	63	99	ND	tatgtcacttaTCACGTGAatctcatgtgga atcgaaaactgTCATGTGActgtcacacgaa	5' intron1?	

