

Gene Cluster ID	Vma21
Drosophila melanogaster gene	CG5969
FlyBase ID	FBgn0036998
Predicted function	Vacuolar ATPase assembly integral membrane protein VMA21-like domain
Protein size	105 amino acids
Cytogenetic map	3L:77C4-77C4
Gene sequence location	3L:20466897..20467891[+]
Dmel CLEAR sequence	TCATGTGA[+]
CLEAR sequence location	3L:20466879..20466886

FlyBase CG5969 gene model & CLEAR element (red) position:



Vma21(CG5969) gene structure comparison in Drosophila species:

Key: UTR region, CDS region

Species	Vma21 orthologs	5'exon	intron	exon3'	Extended CLEAR region	Position	bps from TSS
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<i>Drosophila_melanogaster</i>	Dmel\CG5969	101	72	62	246	517	actaccactttaTCATGTGAttgtgatttgt	5'	-11
<i>Drosophila_simulans</i>	Dsim\GD14890		72	62	246		actaccactttaTCATGTGAttgtgatttgt	5'	
<i>Drosophila_sechellia</i>	Dsec\GM22297		72	63	246		actaccactttaTCATGTGAttgtgatttgt	5'	
<i>Drosophila_yakuba</i>	Dyak\GE19686		72	63	246		actaccactttaTCATGTGAttgtgatttgt	5'	
<i>Drosophila_erecta</i>	Dere\GG16118		72	62	246		actaccactttaTCATGTGAttgtgatttgt	5'	
<i>Drosophila_biarmipes</i>	Dbia\CG5969		72	62	246		actaccattttaTCATGTGAttgtgatttgt	5'	
<i>Drosophila_suzukii</i>	Dsuz\CG5969		72	62	246		actaccattttaTCATGTGAttgtgatttgt	5'	
<i>Drosophila_takahashii</i>	Dtak\CG5969		72	63	246		actaccattttaTCATGTGAttgtgatttgt	5'	
<i>Drosophila_ficusphila</i>	Dfic\CG5969		72	63	246		actactattttaTCATGTGAttgtgatttgt	5'	
<i>Drosophila_eugracilis</i>	Deug\CG5969		69	65	246		actaccattttaTCATGTGAttgtgatttgt	5'	
<i>Drosophila_elegans</i>	Dele\CG5969		72	70	246		actaccgttttaTCATGTGActagtatttgt	5'	
<i>Drosophila_rhopaloo</i>	Drho\CG5969		72	62	246		actacaattttaTCATGTGAttgtgatttgt	5'	
<i>Drosophila_kikkawai</i>	Dkik\CG5969		81	63	246		tactactattttaTCATGTGAttgtgatttg	5'	
<i>Drosophila_bipectinata</i>	Dbip\CG5969		75	56	246		ccataccattttaTCATGTGAttgtgatttgt	5'	
<i>Drosophila_ananassae</i>	Dana\GF10347		75	57	246		tcataccattttaTCATGTGAttgtgatttgt	5'	
<i>Drosophila_pseudoobscura</i>	Dpse\GA19267		81	63	246		actatcgcatthaTCATGTGAttgtcaaaatgt	5'	
<i>Drosophila_persimilis</i>	Dper\GL12791		81	63	246		actatcgcatthaTCATGTGAttgtcaaaatgt	5'	
<i>Drosophila_miranda</i>	Dmir\CG5969		81	64	246		actatcgcatthaTCATGTGAttgtcaaaatgt	5'	
<i>Drosophila_willistoni</i>	Dwi\GK12294		87	62	246		taagcaaaagtcTCATGTGAttggcaatggga	5'	
<i>Drosophila_albomicans</i>	Dalb\CG5969		72	90	252		taacttagtctaTCATGTGAttggcacgaaaa	5'	
<i>Drosophila_mojavensis</i>	Dmoj\GH13399		78	65	240		attcccaagtaTCATGTGAttgacacgtcaa	5'	
<i>Drosophila_virilis</i>	Dvir\GJ11524		78	65	246		ttgtccagtctaTCATGTGAttgtcaegtcaa	5'	
<i>Drosophila_grimshawi</i>	Dgr\GH14552		78	85	243		ttgtccagectaTCATGTGAttgtcaegtcaa	5'	