

Supplementary Table S2: Single copy orthologous genes from the *Drosophila* genomes used in the dS estimate in the VHICA method.

Single Copy Orthologous Host Gene	Full name	Flybase Name
abd-A	abdominal A	FBgn0000014
Abl	Abl tyrosine kinase	FBgn0000017
nAChR β 1	nicotinic Acetylcholine Receptor β 1	FBgn0000038
al	aristaless	FBgn0000061
bib	big brain	FBgn0000180
bur	burgundy	FBgn0000239
D	Dichaete	FBgn0000411
Ddc	dopa decarboxylase	FBgn0000422
dib	disembodied	FBgn0000449
E(z)	Enhancer of zeste	FBgn0000629
grau	grauzone	FBgn0001133
bap	bagpipe	FBgn0004862
DNApol- α 73	DNA polymerase α 73kD	FBgn0005696
Nap1	Nucleosome assembly protein 1	FBgn0015268
CG5861	CG5861	FBgn0015338
RpS21	Ribosomal protein S21	FBgn0015521
AstA	Allatostatin A	FBgn0015591
Lis-1	Lissencephaly-1	FBgn0015754
EloB	Elongin B	FBgn0023212
Lim1	Lim1	FBgn0026411
Rab35	Rab35	FBgn0031090
CG9586	CG9586	FBgn0032101
Vps20	Vacuolar protein sorting 20	FBgn0034744
Art7	Arginine methyltransferase 7	FBgn0034817
Vdup1	Vitamin D3 up-regulated protein 1	FBgn0035103
pyx	pyrexia	FBgn0035113
cln3	cln3	FBgn0036756
Usp12-46	Ubiquitin-specific protease 12/46 ortholog	FBgn0039025
bc10	bc10	FBgn0040239
Gclc	Glutamate-cysteine ligase catalytic subunit	FBgn0040319