

CLUSTAL 2.1 multiple sequence alignment

Dmel_trn-PB	IRETIKGGLGNSALGRKEREYQKTFCDDEDYMSRQHQQHPCSLGIHSTFPNTYTAPHH--P	58
Dpse_trn	IREYLKGGLWGNSALGRKEREYQKTFCDDEDYMARQHQQHPCSLGIHSTFPNTYTAPHH--P	58
Dvir_trn	IREYLKGGLWGNSALGRKEREYQKTFCDDEDYMSRLQHQQHPCSLGIHSTFPNTYTAPHQATA	60
Dgri_trn	IREYLKGGLWGNSALGRKEREYQKTFCDDEDYMSRLQHQQHPCSLGIHSTFPNTYTAPHQATA	60
Dmel_caps-PD	IREMLKG---HSALGRKEREYQKTFSDDEYMSRPP-PGGGG-VHPAAGG-----YP	46
Dpse_caps	IREMLKG---HSALGRKEREYQKTFSDDEYMTRPP-PGCCG-VHPAA-----YP	45
Dgri_caps	IGELFKG---HSALGRKEREYQKTFSDDEYMTRPPAPGCVGGVHPGSG-----YP	47
Dvir_caps	IREMLKG---HSALGRKEREYQKTFSDDEYMTRPP-PGCCG-VHPASG-----YP	45
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Dmel_trn-PB	GAT---HYHGMCMP-MPVNDLGAID-PDQOKFQQLVVP-----TATMIS-EKK	98
Dpse_trn	SAPG---HHYGMCTGMPINDLNAAAGGDQPKFQQLQVP-----TGSLMN-EKK	102
Dvir_trn	SAP---HHHYGMCP-MPINDLNAV---DGQHKFQQLQVP-----ITATLMH-EKK	102
Dgri_trn	AAAAAAHHHYGMCP-MPINDLNSG---DGQHKLQQLQVPA-----SATLLHTEQK	107
Dmel_caps-PD	YIAG---NSMIPVTELXLEAPPPOPLRGRGG-----GGGASTAS-GA	85
Dpse_caps	CSOSQ---YMGSRIPVTELXLEAPPPOQMGRGRGGIASTTTTTSSGGSSGSTAAP	101
Dgri_caps	CPSSYNTTQYLGSRIPVTELXLEVPPPPQLRGRGG-----APTSW-GAS	91
Dvir_caps	CPSGINSSQYLGSRISIPVTELXLEAPPPOPLRGRGG-----APSSHNGPMASTTSGTP	98
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Dmel_trn-PB	LNNNKALVSQGAIDDSASFVLHMKSATMGRDVHO-----QNPO	136
Dpse_trn	LNNNKALASQAIDDSASFVLHMKSATLARDHLQ-----QPHPHPHQPHQOH-QHQSG	155
Dvir_trn	LNNNKS LA---GSVDDASFVLMHKATATMGRDQHQ-----AQLOQOQHOLQQQL-QQQOQH	153
Dgri_trn	LNNNKALA---GSIDDSANFVLHMKTATMNRDHQO-----QQQQQQQLQQQQQQQLPHQHQOH	160
Dmel_caps-PD	VQOLQVPSAVDQAS---NSFAQLSHIHYMTNNQO-----QAAQOOQNSTSKMHHSQ	133
Dpse_caps	LQOLQVPSPVDHAAAASSFAQLSHIHYMTNN-----QTIASPTMNPQMHHSQ	148
Dgri_caps	LQOLQVPSAIDA---HAPFAQLSHIHYMTNPLTTASSAAASSAAAATATTTPRSHHSQ	149
Dvir_caps	LQOLQ-VPSAVDAS-HAPFAQLSHIHYMTNNPQS-----AATTATTPRSHHSQ	146
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Dmel_trn-PB	-----LNHYTKPQFLSATATVGDSCYS---YADVPMVHGAPLGGP---NQPOLRLTQEHEFK	186
Dpse_trn	VQSKLNYHTKPQFLSATAAVGDSCYS---YADVPMVHAAPLGAAPLQQLPQLRLTHEHEFK	211
Dvir_trn	HQSKLNYHTKPQFLAATATVADSCYS---YADVPMVHAP-----QQLRVTHEHEFK	200
Dgri_trn	QSKLNYHTKPQFLAATATVADSCYS---YADVPLVHAP-----QQLRITHEHEFK	207
Dmel_caps-PD	QDMRLLACNGGKPLNA-TSLPRHR-----PVVQESTLSHYSQP-----LANGIRLTQDHFN	184
Dpse_caps	QDMRLLANGGGKTINA-ASLPRHR-----MQESTLSHYSQPLA-----LANGIRLTQDHFN	198
Dgri_caps	QDMRLLANG -KALGNLANSRPHMAGRQCGVQESTLSHYSQPVG-----IRLTQDHFN	200
Dvir_caps	QDMRLLANGGGKVGLGNASLPRHMAGRQCGVQESTLSHYSQPLAN-----GHAGIRLTQDHFN	204
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Dmel_trn-PB	QR-----ELYDQEMGS-EILDHNIIYSNTHYSMPLE	216
Dpse_trn	HRVAGT-----GEHYDNEVNS-EILDPNYIYSNAHYSMPLE	246
Dvir_trn	QREQRE-----PRDFEADAINGEMMDPNYIYSNAHYSPLPE	236
Dgri_trn	QRE-----RDFDNENPLGEEMDPNYIYSNAHYSPLPE	239
Dmel_caps-PD	HNOQ-----SHNQHYGG-YVAKPCDAMSEPGYIHNNSHYSPLD	223
Dpse_caps	HHNSHGHHGHGHGHPHSLGHPHSHTTHNGGYVAKACDAMTEPGYIHNNSHYSPLD	258
Dgri_caps	HN-----GGVYAKPCDAMTDPGYIHNNSHYSPLD	230
Dvir_caps	HNGIGG-----GAGVYAKPCDAMAEAGYIHNNSHYSPLD	239
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Dmel_trn-PB	QLGRSKTPTPPMPPALPLRNGL-----CATTGRRSFQQKSASQKQQQNNNLTLRQFTX	270
Dpse_trn	QMGRSKTPTPPMPPALPLRNGL-----CATTGRRSFQQKS-----NNNTLRLQFTX	294
Dvir_trn	QMGRNKSTPTPPVPPALPLRNGL-----CATTGRRSFQQK-TPAHNN-NTSTMRQFTX	288
Dgri_trn	QMGRSKTPTPPPLPPALPLRNGL-----CATTGRRSLQRHPTPATN-----TLRQFTX	288
Dmel_caps-PD	HDLPP-SPTPTPPPAPLPLRNVGMALIHGNTTGRRSFN-----NNNNVSTLSNNNNH	275
Dpse_caps	HDLPP-SPTPTPPPAPLPLRNVGMALIHGNTTGRRSFNNSNS-----NNNNVATLSNNNNH	315
Dgri_caps	HDMPP-SPTPTPPPAPLPLRNGLGMALVHGNTTGRRSFNSSSSNNNNNVATLSNNNNH	289
Dvir_caps	HDMPP-SPTPTPPPAPLPLRNMGMALVHGNTTGRRSFNS-----NNNNVATLSNNNNH	292
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Dmel_trn-PB	-----SSTYRRQLSIYA-----283	
Dpse_trn	-----STVDYRRQLSIYA-----308	
Dvir_trn	-----SSEHYRRQLSIYA-----302	
Dgri_trn	-----SSEHYRRQLSIFA-----302	
Dmel_caps-PD	-----GIGGGVG-VAVGGTVGNNNNGSLRYH-----300	
Dpse_caps	-----GGGGGGGGGAIALLSSNNNGSLRYH-----341	
Dgri_caps	-----GLVLANG-CSG-INNNNGSLRYH-----311	
Dvir_caps	-----GVGGGAFLVNGNYNTNGNSNNNNNGSLRYH-----322	
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Figure S2 Conservation of protein sequence beyond stop-codon readthroughs. Clustal alignment (<http://www.ebi.ac.uk/Tools/msa/clustalw2/>) of the carboxy end of *tartan* gene proteins from several *Drosophila* species (if annotated with a short read-through extension) and the predicted carboxy end of *caps* gene proteins (if annotated with a long read-through extension) from several *Drosophila* species. The *caps* readthrough (denoted by 'X') is at alignment position 82; the *trn* readthrough is at alignment position 300. Note regions of low complexity, variable conservation and variable length interspersed with regions of protein sequence conservation.