

A

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human MAASEAAAAAGSAAALAAGARAVPAATTGAAAAASGPWVPPGPRLRGSRPRPAGATQQPAV
fly -----MHSEK
      :.

human PAPPAGELIQPSVSELSRAVRTNILCTVRGCGKILPNSPALNMHLVKSHRLQDGI VNP TI
fly HTPDIRELMPVREHRCERCP-----SLVFGNLSHYQLHLRRR--QEVIPPSVI
      :*  ** : . . * . . : : * . : : * : * * : * . * . *

human RKDLKTGPKFYCCPIEGCPRGPERPFSQFSLVKQHFMMKHAEEKKHKCSKCSNSYGTWDL
fly GPIVAFHCPVEKCIYHVATKG-ARSFTSLRLLRQHYQKSHLDENYKCLACGGKFLQHHL
      : . * . . . : * * . : : * : * * : * : * * * . . : : . *

human KRHAEDCGKTFRCCTGCPYASRTALQSHIYRTGHEIPAHRDPPSKRRKMENCAQNOKLS
fly EKH--QCSKHKCPVCELTYNKAGLRTHMRRKNHLVHHESDKVIP-----S
      : : * : * . * . * * : : . * : : * : * : * . * . *

human NKTIESLNNQPIPRPDTQELESEIKLEPSFEDSCGSNTDKQTLTTPPRYPQKLLLPKP
fly LATWKR LNPQPIP-----
      * : * * * * *

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B

human	<i>Drosophila</i>
1-SVHTQTTF	1-DMETQTE
2-SRETQTS	2-DIETQTP
3-DNQTQTI	3-HMYTQTC
4-NIQTQTE	4-HIQTQTH
5-DIETQTD	5-TQHTQTC
6-MFDTQTQ	6-STCTQTR
7-DTQTQTD	
8-DIETQTE	
9-STETQTM	
10-SNETQTA	
11-SVETQTS	

Figure S1 Comparison of human ASCIZ and dASCIZ. (A) Alignment of the N-terminal regions of human ASCIZ and dASCIZ. *, identical residues; :, highly conserved residues; ., conserved residues. (B) Compilation of TQT motifs in human ASCIZ (left) and dASCIZ (right) arranged from top to bottom in their N- to C-terminal order (compare Fig. 1A).