

Table 8. Comparison among the TPase proteins from different species

Species	L	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
1. Dana\Galileo	889		885	879	881	880	886	885	883	834	838	836	834	833	794	799	836	722	726	718	723	735	807
2. Dpse\Galileo	908	56.2		902	893	899	897	896	895	839	841	841	840	838	797	802	839	722	728	718	723	740	808
3. Dper\Galileo	902	55.6	97.2		887	893	891	890	889	833	835	835	834	832	791	796	833	716	722	712	717	734	802
4. Dwi\Galileo	910	42.3	41.7	41.5		888	902	901	898	836	840	838	836	835	795	800	838	718	726	715	719	735	806
5. Dvir\Galileo	938	41.6	39.9	39.4	52.3		909	908	886	836	838	838	837	835	792	797	836	723	730	718	724	744	806
6. Dmoj\GalileoC	937	55.6	52.8	52.1	43.1	40.0		936	905	840	844	842	840	839	800	805	842	724	731	721	725	740	809
7. Dmoj\GalileoD	936	57.2	55.0	54.3	43.3	41.0	87.3		904	839	843	841	839	838	799	804	841	723	730	720	724	739	808
8. Dbuз\Galileo	912	58.3	56.2	55.6	41.8	40.9	72.4	74.0		837	840	839	837	836	796	801	838	723	729	719	724	739	808
9. DmeN\360	854	34.7	32.2	32.2	33.9	31.1	34.4	34.7	34.4		854	854	853	852	797	802	853	721	727	716	721	738	798
10. Dsim\360	858	34.6	31.6	31.6	33.1	30.9	33.2	33.7	33.1	93.8		856	854	853	800	805	856	723	730	719	723	739	802
11. Dsec\360	856	34.7	32.1	32.1	33.8	30.4	34.2	34.4	33.8	94.8	96.1		854	853	798	803	854	722	728	717	722	739	800
12. Dere\360	854	35.4	32.1	32.1	32.8	31.1	35.0	35.2	34.6	88.7	86.8	88.3		852	797	802	853	721	727	716	721	739	798
13. Dyak\360	853	35.4	31.5	31.4	32.9	30.9	34.7	34.8	34.6	88.8	87.0	88.2	91.7		797	802	852	722	728	717	722	739	799
14. Dpse\360	818	35.0	33.2	33.2	32.6	30.3	33.5	34.0	33.9	35.4	34.1	35.1	35.1	35.4		811	804	695	703	691	695	710	764
15. Dper\360	817	35.3	33.7	33.7	33.3	30.6	34.0	34.7	34.3	35.9	34.5	35.5	35.5	35.8	98.0		799	691	698	686	690	706	760
16. Dvir\360	856	34.7	32.4	32.4	32.7	29.5	33.8	33.9	33.9	71.7	70.4	71.5	72.5	72.5	34.8	34.5		722	729	718	722	738	800
17. DmeNP	751	23.1	24.2	24.0	22.3	21.2	23.8	24.6	25.3	23.2	22.3	23.0	22.7	22.7	23.3	22.9	23.3		736	735	750	749	718
18. DbifNP	757	23.1	23.4	23.5	22.7	21.1	24.6	24.7	24.8	23.4	23.0	22.9	22.1	22.9	23.6	23.2	23.0	66.7		740	737	754	714
19. DheNP	746	22.7	22.8	22.9	22.1	20.1	23.9	24.0	24.1	23.2	22.7	22.6	21.9	22.3	22.3	22.0	22.6	75.0	66.5		736	743	704

Species	L	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
20. <i>DwiNP</i>	751	22.5	23.7	23.4	22.3	21.1	23.0	23.9	24.9	23.2	22.3	23.0	22.7	22.6	23.3	22.9	23.4	98.1	66.9	75.7		749	718
21. <i>SpaNP</i>	830	23.4	23.1	23.2	22.3	20.3	23.6	23.8	24.5	24.0	23.4	23.5	22.7	23.0	22.0	21.5	22.8	74.0	66.2	87.2	74.6		731
22. <i>Hsa\THAP9</i>	903	20.9	20.9	21.1	19.1	19.1	20.5	20.3	20.4	18.8	18.7	18.6	18.9	19.9	18.1	17.6	19.1	21.0	19.2	20.6	21.0	20.1	

TPase length (L, first column), number of aligned amino acids omitting gaps (above diagonal), and percent identical amino acids (below diagonal) in pairwise comparisons between the sequences of the *Drosophila* 21 TPases (8 from *Galileo*, 8 from *I360*, and 5 from *P* element) and the THAP containing 9 proteins from *Homo sapiens*. The global alignment of the 22 protein sequences comprised 1,126 positions.