

a Sequence format is Pearson

Sequence 1:	PpTPS1a	113 aa
Sequence 2:	PpTPS1b	113 aa
Sequence 3:	PpTPS5	113 aa
Sequence 4:	PpTPS6	113 aa
Sequence 5:	PpTPS7a	113 aa
Sequence 6:	PpTPS7b	113 aa
Sequence 7:	PpTPS9a	113 aa
Sequence 8:	PpTPS9b	113 aa
Sequence 9:	PpTPS10	113 aa

Sequences (1:2)	Aligned.	Score: 67.2566
Sequences (1:3)	Aligned.	Score: 21.2389
Sequences (1:4)	Aligned.	Score: 23.0088
Sequences (1:5)	Aligned.	Score: 19.469
Sequences (1:6)	Aligned.	Score: 20.354
Sequences (1:7)	Aligned.	Score: 22.1239
Sequences (1:8)	Aligned.	Score: 20.354
Sequences (1:9)	Aligned.	Score: 25.6637
Sequences (2:3)	Aligned.	Score: 22.1239
Sequences (2:4)	Aligned.	Score: 20.354
Sequences (2:5)	Aligned.	Score: 20.354
Sequences (2:6)	Aligned.	Score: 21.2389
Sequences (2:7)	Aligned.	Score: 24.7788
Sequences (2:8)	Aligned.	Score: 24.7788
Sequences (2:9)	Aligned.	Score: 26.5487
Sequences (3:4)	Aligned.	Score: 49.5575
Sequences (3:5)	Aligned.	Score: 48.6726
Sequences (3:6)	Aligned.	Score: 46.9027
Sequences (3:7)	Aligned.	Score: 49.5575
Sequences (3:8)	Aligned.	Score: 46.0177
Sequences (3:9)	Aligned.	Score: 48.6726
Sequences (4:5)	Aligned.	Score: 46.9027
Sequences (4:6)	Aligned.	Score: 46.0177
Sequences (4:7)	Aligned.	Score: 47.7876
Sequences (4:8)	Aligned.	Score: 43.3628
Sequences (4:9)	Aligned.	Score: 45.1327
Sequences (5:6)	Aligned.	Score: 64.6018
Sequences (5:7)	Aligned.	Score: 55.7522
Sequences (5:8)	Aligned.	Score: 54.8673
Sequences (5:9)	Aligned.	Score: 54.8673
Sequences (6:7)	Aligned.	Score: 52.2124
Sequences (6:8)	Aligned.	Score: 52.2124
Sequences (6:9)	Aligned.	Score: 55.7522
Sequences (7:8)	Aligned.	Score: 53.9823
Sequences (7:9)	Aligned.	Score: 60.177
Sequences (8:9)	Aligned.	Score: 54.8673

b Sequence format is Pearson

Sequence 1:	PpTPS1a	95 aa
Sequence 2:	PpTPS1b	95 aa
Sequence 3:	PpTPS5	95 aa
Sequence 4:	PpTPS6	95 aa
Sequence 5:	PpTPS7a	95 aa
Sequence 6:	PpTPS7b	95 aa
Sequence 7:	PpTPS9a	95 aa
Sequence 8:	PpTPS9b	95 aa
Sequence 9:	PpTPS10	95 aa

Sequences (1:2)	Aligned.	Score: 43.1579
Sequences (1:3)	Aligned.	Score: 10.5263
Sequences (1:4)	Aligned.	Score: 10.5263
Sequences (1:5)	Aligned.	Score: 13.6842
Sequences (1:6)	Aligned.	Score: 9.47368
Sequences (1:7)	Aligned.	Score: 11.5789
Sequences (1:8)	Aligned.	Score: 8.42105
Sequences (1:9)	Aligned.	Score: 10.5263
Sequences (2:3)	Aligned.	Score: 11.5789
Sequences (2:4)	Aligned.	Score: 9.47368
Sequences (2:5)	Aligned.	Score: 11.5789
Sequences (2:6)	Aligned.	Score: 12.6316
Sequences (2:7)	Aligned.	Score: 11.5789
Sequences (2:8)	Aligned.	Score: 9.47368
Sequences (2:9)	Aligned.	Score: 9.47368
Sequences (3:4)	Aligned.	Score: 48.4211
Sequences (3:5)	Aligned.	Score: 60
Sequences (3:6)	Aligned.	Score: 53.6842
Sequences (3:7)	Aligned.	Score: 30.5263
Sequences (3:8)	Aligned.	Score: 34.7368
Sequences (3:9)	Aligned.	Score: 34.7368
Sequences (4:5)	Aligned.	Score: 51.5789
Sequences (4:6)	Aligned.	Score: 46.3158
Sequences (4:7)	Aligned.	Score: 31.5789
Sequences (4:8)	Aligned.	Score: 37.8947
Sequences (4:9)	Aligned.	Score: 37.8947
Sequences (5:6)	Aligned.	Score: 67.3684
Sequences (5:7)	Aligned.	Score: 34.7368
Sequences (5:8)	Aligned.	Score: 35.7895
Sequences (5:9)	Aligned.	Score: 41.0526
Sequences (6:7)	Aligned.	Score: 28.4211
Sequences (6:8)	Aligned.	Score: 28.4211
Sequences (6:9)	Aligned.	Score: 38.9474
Sequences (7:8)	Aligned.	Score: 32.6316
Sequences (7:9)	Aligned.	Score: 45.2632
Sequences (8:9)	Aligned.	Score: 34.7368