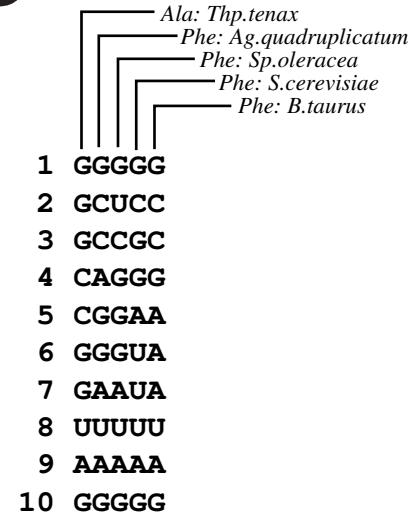
A

	1 10
Ala: Thp.tenax	GGGCCGGUAG
Phe: Ag.quadruplicatum	GCCAGGAUAG
Phe: Sp.oleracea	GUCGGGAUAG
Phe: S.cerevisiae	GCGGAUUUAG
Phe: B.taurus	GCCGAAAUAG

B



A. tRNA-5 partial alignment before 90° rotation. Each row contains a single sequence, and each column contains a single position. B. tRNA-5 partial alignment after 90° rotation. Each row contains a single position, and each column contains a single sequence.