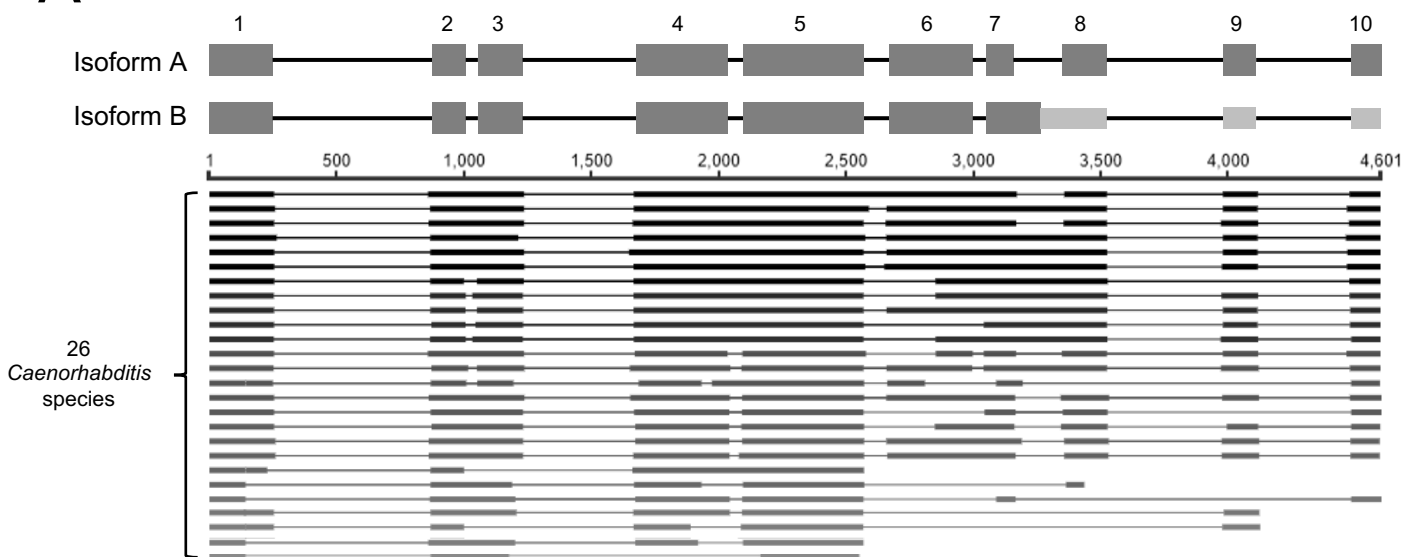


# Supplemental Figure 1

## A



## B

	10	20	30	40	50	60	70	
<i>C.elegans</i> /1-35	VRF	VF	IEKEEDMN	TLLFF	FRYF	ASSFRVY	PVHTLTY	
<i>C.dougherty</i> /1-16	VSFFF	SLHLK	RGFETK					
<i>C.sinica</i> /1-14	VRF	ESLK	IEKKKK					
<i>C.sp</i> 40/1-7	VRF	EALN						
<i>C.sp</i> 26/1-18	VRF	REFEL	SKRRR	RFETK				
<i>C.sp</i> 39/1-46	VRF	IETSR	KEKKEKSV	LLLLL	SPLLP	RRRIR	PFPPSH	LVVVKW
<i>C.nouraguensis</i> /1-33	VRF	TETSS	RRR	VFFFF	SRSTAR	HRIR	FLPHTY	
<i>C.sp</i> 32/1-61	VRF	GNERG	RKRR	TLFFF	CLFAS	SDPSL	THTNVV	VVKWGRERKEARRRRERAQIDFQAGGGGG
<i>C.afra</i> /1-67	VRF	GERRR	GRRRR	TLLFFF	SLLAS	FAPSL	THTSVV	VVKWRRERKTARRRRERAQIDFQAGGGGGAGAG
<i>C.sp</i> 29/1-9	VRF	TETSS						
<i>C.sp</i> 34( <i>nopinata</i> )/1-67	VSG	EGKRV	DHNNT	FRF	SLFS	ISSSHS	FSHSG	TPSHIGRCKVEMEKSGGGGEEGIFFFSHSSTPQDKLN