

Supplementary table 1. RNase T2 proteins used for phylogenetic analysis

Name	Accession #	species	common name	CASII	source
RNase T2	P10281	<i>Aspergillus oryzae</i>	Koji-kin	H	Protein
RNase Rh	P08056	<i>Rhizopus niveus</i>		H	Protein
RNase Ddl	XP_640939	<i>Dictyostelium discoideum</i>		H	Protein
RNase LE	P80022	<i>Lycopersicon esculentum</i>	tomato	H	Protein
RNS1	P42813	<i>Arabidopsis thaliana</i>	thale-cress	H	Protein
omega-1	ABB73002	<i>Schistosoma mansoni</i>		H	Protein
RNase Ler1	CV222118	<i>Leucoraja erinacea</i>	little skate	N	EST
RNase Atr1	DR976433	<i>Acipenser transmontanus</i>	American sturgeon	E	EST
RNase Ola1	BJ501340	<i>Oryzias latipes</i>	medaka	Q	EST
RNase Dre1	FJ460211	<i>Danio rerio</i>	zebrafish	E	this work
RNase Ipu1	CV994888	<i>Ictalurus punctatus</i>	channel catfish	D	EST
RNase Sfo3	EV387897	<i>Salvelinus fontinalis</i>	brook trout	D	EST
RNase Ssa1	DW561904	<i>Salmo salar</i>	Atlantic salmon	D	EST
RNase Sfo1	EV393106	<i>Salvelinus fontinalis</i>	brook trout	D	EST
RNase Omy1	CA371032	<i>Oncorhynchus mykiss</i>	rainbow trout	D	EST
RNase Spu2	XP_780287	<i>Strongylocentrotus purpuratus</i>	purple sea urchin	H	Protein
RNase Ebu2	BJ653399	<i>Eptatretus burgeri</i>	inshore hagfish	Y	EST
	CO553054 +				
RNase Pma2	CO552166	<i>Petromyzon marinus</i>	sea lamprey	H	EST
RNase Atr2	DR976045	<i>Acipenser transmontanus</i>	American sturgeon	H	EST
RNase Cca2	EX822236	<i>Cyprinus carpio</i>	common carp	Y	EST
RNase Fhe2	DR441730	<i>Fundulus heteroclitus</i>	killifish	Y	EST
RNase Omo2	EL528012	<i>Osmerus mordax</i>	rainbow smelt	Y	EST
RNase Gmo2	EX741865	<i>Gadus morhua</i>	Atlantic cod	Y	EST
RNase Tni2	CAG05697	<i>Tetraodon nigroviridis</i>	spotted green pufferfish	Y	Protein
RNase Tru2	CA330011	<i>Takifugu rubripes</i>	fugu	Y	EST
RNase Gac2	DW635779	<i>Gasterosteus aculeatus</i>	three-spined stickleback	Y	EST
RNase Pcr2	CX349007	<i>Pseudosciaena crocea</i>	large yellow croaker	Y	EST
RNase Ok2	BAB55596	<i>Oncorhynchus keta</i>	chum salmon	Y	Protein
RNase Ssa2	EG914237	<i>Salmo salar</i>	Atlantic salmon	Y	EST
RNase Sfo2	EV393679	<i>Salvelinus fontinalis</i>	brook trout	Y	EST
RNase Man2	BJ820572	<i>Misgurnus anguillicaudatus</i>	oriental weatherfish	Y	EST
RNase Dre2	FJ460212	<i>Danio rerio</i>	zebrafish	Y	this work
RNase Ppr2	DT189242	<i>Pimephales promelas</i>	fathead minnow	Y	EST
RNase Rru2	EG548700	<i>Rutilus rutilus</i>	roach minnow	Y	EST
RNase Xla2	NP_001086583	<i>Xenopus laevis</i>	African clawed frog	H	Protein
RNase Sac2	EG027303	<i>Squalus acanthias</i>	Dogfish Shark	H	EST
RNase Gga2	NP_001034580	<i>Gallus gallus</i>	chicken	H	Protein
RNASET2	NP_003721	<i>Homo sapiens</i>	human	H	Protein
RNase Mmu2	NP_001077407	<i>Mus musculus</i>	mouse	H	Protein
RNase Mdo2	XP_001381570	<i>Monodelphis domestica</i>	gray short-tailed opossum	H	Protein
RNase Oan2	EY201560	<i>Ornithorhynchus anatinus</i>	duck-billed platypus	H	EST
RNase Cin2	BW482808	<i>Ciona intestinalis</i>	Sea squirt	H	EST
RNase Bfl2	BW708730	<i>Branchiostoma floridae</i>	Florida lancelet (Amphioxus)	H	EST
CeRNS	NP_503370	<i>Caenorhabditis elegans</i>	nematode	H	Protein
RNase Bma1	EDP29148	<i>Brugia malayi</i>	filarial nematode	H	Protein
DmRNase-66B	CAA52884	<i>Drosophila melanogaster</i>	fruit fly	H	Protein
RNase Ahyl	CAA47438	<i>Aeromonas hydrophila</i>		H	Protein
RNase I	NP_752630	<i>Escherichia coli</i>		Y	Protein