

Table S2 List of 22 species (8 plant, 13 animal and 1 fungus) and their genome sequence information obtained from NCBI database for *in silico* analysis of restriction enzyme digestions

Species	Scientific name	NCBI ID	SL ^a	NC ^a	Download link ^a	Reference ^b
<i>Plant</i>						
<i>Arabidopsis</i>	<i>Arabidopsis thaliana</i>	TAIR10	119,667,750	5	NCBI1/GCF_000001735.3	Meinke et al. 1998. Science 282:679-682
Black cottonwood	<i>Populus trichocarpa</i>	Genome ID 98	378,545,565	19	NCBI2/98	Tuskan et al. 2006. Science 313:1596-1604
Medicago	<i>Medicago truncatula</i>	MedtrA17_4.0	412,800,391	8	NCBI1/GCA_000219495.2	Tang et al. 2014. BMC Genomics 15:312
Wine grape	<i>Vitis vinifera</i>	Genome ID 401	426,176,009	19	NCBI2/401	Jaillon et al. 2007. Nature 449:463-467
Soybean	<i>Glycine max</i>	V1.1	973,779,290	20	NCBI1/GCF_000004515.3	Schmutz et al. 2010. Nature 463:178-183
Rice	<i>Oryza sativa japonica</i>	Build 4.0	382,778,125	12	NCBI1/GCF_000005425.2	Tanaka et al. 2008. Nucl Acids Res 36:D1028-33
Sorghum	<i>Sorghum bicolor</i>	Sorbi1	739,150,314	10	NCBI1/GCF_000003195.2	Paterson et al. 2009. Nature, 457:551-556
Maize	<i>Zea mays</i>	B73 RefGen_v3	2,067,622,303	10	NCBI1/GCF_000005005.1	Schnable et al. 2009. Science 326:1112-1115
<i>Animal</i>						
<i>C. elegans</i>	<i>Caenorhabditis elegans</i>	WBcel235	100,286,401	6	NCBI1/GCA_000002985.3	C. elegans Sequencing Consortium. 1998. Science. 282:2012-2018
Fruit fly	<i>Drosophila melanogaster</i>	Release 6 plus ISO1 MT	143,726,002	7	NCBI1/GCF_000001215.4/	Hoskins et al. 2007. Science 16:1625-1628
Honey bee	<i>Apis mellifera</i>	Amel_4.5	250,287,000	16	NCBI1/GCF_000002195.4	Elsik et al. 2014. BMC Genomics 15:86
Three-spined stickleback	<i>Gasterosteus aculeatus</i>	BROADS1	400,788,495	21	NCBI3/86302700	Jones et al. 2012. Nature 484:55-61
Northern pike	<i>Esox lucius</i>	EsoLuc1.0	877,830,608	25	NCBI1/GCF_000721915.1/	Rondeau et al. 2014. PLoS One 9: e102089
Zebra fish	<i>Danio rerio</i>	GRCz10	1,371,719,383	25	NCBI1/GCA_000002035.3	Howe et al. 2013. Nature. 496:498-503
Turkey	<i>Meleagris gallopavo</i>	Turkey_2.01	1,061,817,103	32	NCBI1/GCF_000146605.1	Dalloul et al. 2010. PLoS Biol 8: e1000475
Zebra finch	<i>Taeniopygia guttata</i>	Taeniopygia_guttata-3.2.4	1,232,135,591	35	NCBI1/GCA_000151805.2	Warren et al. 2010. Nature. 464:757-762
Dog	<i>Canis lupus familiaris</i>	CanFam3.1	2,410,976,875	39	NCBI1/GCA_000002285.2	Lindblad-Toh et al. 2005. Nature. 438:803-819
Housecat	<i>Felis sylvestrus catus</i>	Felis_catus_8.0	2,641,342,258	19	NCBI1/GCA_000181335.3	Pontius et al. 2007. Genome Res. 17:1675-1689
House mouse	<i>Mus musculus</i>	GRCm38.p3	2,800,055,571	21	NCBI1/GCF_000001635.23/	Church et al. 2011. PLoS Biol 9:e1001091
Pigmy chimp	<i>Pan paniscus</i>	panpan1.1	3,286,643,896	24	NCBI1/GCA_000258655.2	Prufer et al. 2012. Nature. 486:527-531
Opossum	<i>Monodelphis domestica</i>	MonDom5	3,598,443,077	9	NCBI1/GCF_000002295.2	Mikkelsen et al. 2007. Nature 447:167-177
<i>Fungi</i>						
Baker's yeast	<i>Saccharomyces cerevisiae</i>	R64	12,157,105	16	NCBI1/GCA_000146045.2	Strope et al. 2015. Genome Res. 25:762-74

^a SL=sequence length; NC=number of chromosomes; NCBI1=<http://www.ncbi.nlm.nih.gov/assembly>; NCBI2=<http://www.ncbi.nlm.nih.gov/genome>; NCBI3=<http://www.ncbi.nlm.nih.gov/nuccore>.

^b The listed references here are independent from those used in the paper .