

Appendix.

Part A. Eukaryotic histone H4 sequences used (protists, plants, fungi and animals)

Part B. Histone-like proteins of Euryarchaeota and eukaryotic histone protein used (Euryarchaeota, H1, H2A, H2B, H3, H4)

Part A.

Name of the sequence	Accession number	Name of the sequence	Accession number
Protists			
Giardia	AF139876	Leishmania.1	AF175386
Pyrenomonas	X77806	Leishmania.2	Y13915
Phreatamoeba	AF140034	Leishmania.3	Y13916
Plants			
Arabidopsis.I.1*	AC007583	Lycopersicon .1	X69179
Arabidopsis.II.1	AC005727	Lycopersicon .2	X69180
Arabidopsis.III.1	AL132960	Pisum	U10042
Arabidopsis.III.2	AL162459	Sesbania.1	Z79637
Arabidopsis.III.3	AL133298	Sesbania.2	Z79638
Arabidopsis.V.1	AB015475	Solanum melongena	AB018245
Arabidopsis.V.2	AB006705	Triticum.1	M12277
Capsicum	AF038387	Triticum.2	X00043
Chlamydomonas.1	L41841	Volvox	X06963
Chlamydomonas.2	U16724	Zea.1	M13370

Chlamydomonas.3	U16725	Zea.2	M13377
Chlamydomonas.4	U16825	Zea.3	M36659
Lolium	X79715	Zea.4	X84376
Fungi			
Agaricus	X94189	Saccharomyces cerevisiae.1	Z71306
Aspergillus nidulans.1	X55549	S.cerevisiae.2	Z35878
A.nidulans.2	X55550	S.cerevisiae.3	X00724
Aspergillus oryzae	AB033943	S.cerevisiae.4	X00725
Neurospora	X01611	Schizosaccharomyces.1	X05222
Phanerochaete.1	Z15134	Schizosaccharomyces.2	X05223
Phanerochaete.2	Z15135	Schizosaccharomyces.3	X05224
Saccharomyces pastorianus	K03154		
Animals			
Acrolepiopsis	X91508	Holothuria	Z46226
Acropora.1	L11067	Human.1	M16707
Acropora.2	S67324	Human.2	X60484
Apis	X91509	Human.3	X60481
Ascaris	Z69289	Human.4	M60749
Asellus	AJ238321	Human.5	X60482
Caenorhabditis briggsae.1	G01b4s2 **	Human.6	Z80787
C.briggsae.2	G45o14	Human.7	X67081

C.briggsae.3	G14f21	Human.8	X60486
C.briggsae.4	G41k24	Human.9	X83548
C.briggsae.5	G01b4s3	Human.10	AB000905
Caenorhabditis elegans.I.1*	Z81128	Human.11	X60483
C.elegans.II.1	X15634	Lytechinus.1	J01175
C.elegans.II.2	Z83245	Lytechinus.2	X00593
C.elegans.II.3	Z83245	Mouse.1	V00753
C.elegans.II.4	Z83245	Mouse.2	X13236
C.elegans.IV.1	Z68336	Mouse.3	X13235
C.elegans.IV.2	AF047656	Mouse.4	U62672
C.elegans.IV.3	U58750	Paracentrotus.1	M36923
C.elegans.IV.4	Z73102	Paracentrotus.2	Y16588
C.elegans.IV.5	Z82271	Pisaster brevispinus	X54112
C.elegans.V.1	Z93388	Pisaster ochraceus	X54113
C.elegans.V.2	Z70750	Platynereis	X53330
C.elegans.V.3	U64843	Psammechinus	M10556
C.elegans.V.4	U64843	Pycnopodia	X54114
C.elegans.V.5	U64845	Rat.1	X13554
C.elegans.X.1	U41625	Rat.2	M27433
Chaetopterus	AF007904	Solaster	X54115
Chironomus.1	X56335	Strongylocentrotus.1	M32426

Chironomus.2	X72803	Strongylocentrotus.2	X06639
Chicken.1	U37576	Strongylocentrotus.3	X03952
Chicken.2	X02218	Strongylocentrotus.4	V01355
Chicken.3	X02218	Strongylocentrotus.5	X06641
Chicken.4	M74533	Tigriopus	X52393
Chicken.5	M74534	Tilapia	X54078
Chicken.6	U37575	Trichogramma	X91515
Chicken.7	U37575	Trout	X02916
Cow	AF001288	Urechis	X58895
Diadromus	X91510	Xenopus laevis.1	J00987
Diprion	X91513	X.laevis.2	X03017
Drosophila hydei.1	X17072	X.laevis.3	X00224
D.hydei.2	X97436	X.laevis.4	X03017
D.hydei.3	X52576	X.laevis.5	X03018
Drosophila melanogaster.1	X14215	Xenopus borealis	J00985
D.melanogaster.2	X97437		

Notes:* Chromosome numbers are specified by Roman numerals;

** Names of the *C.briggsae* clones correspond to names given by Washington University
C.briggsae Genome Sequencing Project

(<http://www.genome.wustl.edu/gsc/Projects/briggsae.shtml>)

Part B.

Name of the sequence	Accession number	Name of the sequence	Accession number
Euryarchaeota			
Archaeoglobus (hpyA1-1)	AAB89751	Pyrococcus abyssi (hpyA1-2)	AJ248284
Archaeoglobus (hpyA1-2)	AAB90902	Pyrococcus furiosus (hpyA1-1)	BAA25805
Methanobacterium (HMtA1)	AAB85321	Pyrococcus horikoshii (PHS046)	AP000007
Methanobacterium (HMtA2)	AAB86168	Pyrococcus horikoshii (PHS051)	AP000007
Methanobacterium (HFO2)	P48783	Pyrococcus kodakaraensis (HPkA)	AB016003
Methanococcus jannaschii (A2)	U67536	Thermococcus kodakaraensis (HPkB)	BAA77576
Pyrococcus abyssi (han1)	AJ248284	Thermococcus zilligii (han1A)	U93078
Histone H1			
Arabidopsis	CAA44314	Human	AAA35944
Drosophila	S10096	Yeast	P53551
Histone H2A			
Arabidopsis	AAD25562	Human	NP_003507

Drosophila	G70700	Yeast	AAA66318
Giardia	AF139873		
Histone H2B			
Arabidopsis	CAA73156	Human	NP_003509
Drosophila	P02283	Yeast	NC_001136
Giardia	AF139874		
Histone H3			
Arabidopsis	AF370577	Human	NP_003520
Drosophila	X14215	Yeast	NP_009564
Giardia	AF139875		
Histone H4			
Arabidopsis	S06904	Human	NP_003529
Drosophila	CAA32435	Yeast	X00724
Giardia	AF139876		