Supplementary Table 2. Group-specific barcodes for selected genera representing all eukaryotic supergroups (in brackets number of corresponding sequences in the GenBank). NM denotes nucleomorph origin. Variable regions used in 18S and 28S genes are indicated in some cases.

Supergroup	Phylum/Class	Genus	Barcode 1	Barcode 2	Barcode 3	References
ALVEOLATA	Apicomplexa	Eimeria	ITS (542)	COI (102)		[1,2]
		Neospora	ITS1 (75)			[3,4]
		Sarcocystis	ITS1 (144)	COI (9)		[5]
	Ciliophora	Carchesium	ITS (62)	COI (59)	28S (58)	[6]
		Coleps	cyt b (28)			[7]
		Paramecium	ITS (388)	COI (210)		[8], [9], [10]
		Tetrahymena	COI (141)	18S (34)		[11-13]
	Dinophyceae	Alexandrium	ITS (452)	28S/D1-D2 (220)	COI (66) cob (5)	[14-17]
		Pfiesteria	ITS (28)	18S (11)	COI (8)	[17,18]
		Prorocentrum	COI (74)	ITS (24)	cob (7)	[15-19]
		Symbiodinium	ITS 1 (73) ITS2 (2551)	psbA (97)	Cp 23S (592)	[16,17,20-23]
		metabarcoding	COI	cytb		[17]
	Perkinsea	Perkinsus	ITS (387)	NTS (23)		[24,25]
	Syndiniales	Euduboscquella	ITS (62)			[26]
AMOEBOZOA	Archamoebae	Entamoeba	18S (123)	ITS (17)		[27,28]
	Centramoebae	Acanthamoeba	18S (1240)			[29-32]
	Discosea	Cochliopodium	18S (16)	COI (2)		[33,34]
		Parvamoeba	18S (7)	COI (2)		[35]
		Paramoeba	18S (5)			[36]
		Neoparamoeba	ITS (154)	18S (33)		[37-39]
		Vannella	COI (236)	ITS (109)		[40]
	Dictyostelia	various genera	ITS (364)	18S (169)		[41,42]
	Myxogastria	various genera	18S/5-11 (101)	ITS (59)		[43-46]
	Protostelia	various genera	18S (28)			[43,47]
	Tubulinea/Arcellinida	various genera	COI (59)	18S (18)		[48-50]
ARCHAEPLASTIDA	Chlorophyta	Caulerpa	ITS2 (450)	tufA (383)		[51,52]
		Volvocales	ITS2 (234)	18S (735)		[53]
		Ulva	ITS2 (621)	rbcL (81)	tufA (138) Cp 23S (3)	[54,55]
		various genera	Cp 23S (16)			[55]
	Rhodophyta	various genera	COI (8767)	ITS (1516)	rbcL (5353) 28S (1649)	[56-61]
EXCAVATA	Euglenozoa/Euglenida	various genera	18S (287)	28S (289)	16S (242)	[62]
	Euglenozoa/Kinetoplastea	Bodo/Neobodo	18S (87)			[62-64]
	Euglenozoa/Kinetoplastea	Trypanosomatidae	SL RNA	18S (880)	GAPDH (90)	[65-68]

			(939)			
	Fornicata	various genera	18S (148)	ITS (89)		[69]
	Heterolobosea	Naegleria	ITS (322)	18S (58)		[70,71]
	Parabasalia	various genera	ITS (343)	18S (73)		[72-75]
OPISTHOKONTA	Choanoflagellida	various genera	18S/V4 (68)			[76]
	Mesomycetozoea/Ichtyosporea	various genera	ITS (475)	18S (148)	EFL (62)	[77,78]
RHIZARIA	Cercozoa/Euglyphida	various genera	COI (35)	18S (14)		[50,79-82]
	Cercozoa/Glissomonadida	various genera	18S (164)			[83,84]
	Cercozoa/Chlorarachniophyceae	various genera	ITSnm (19)	ITSnuc (10)		[85]
	Cercozoa	various genera	18S (465)	ITS (154)		[85-88]
	Plasmodiophorida	various genera	ITS (85)			[89-91]
	Haplosporidia	Bonamia	ITS (132)	18S (19)	Actin1 (6)	[92,93]
	Foraminifera	various genera	18S/32-50 (2147)	28S/D1-D2 (331)	ITS (659)	[94-96]
	Radiolaria/Acantharea	various genera	28S (113)	18S (88)		[97]
	Radiolaria/Polycystinea	various genera	18S (46)	ITS (10)		[98,99]
STRAMENOPILES	Bacillariophyta	Sellaphora, some raphid pennates	rbcL (105)	COI (59)	28S/D2-D3 (79)	[100-105]
		various genera	18S / V4 (3039)	ITS (1204)	rbcL (105)	[102,106-108]
	Bicoecea	various genera	18S (58)	28S (12)		[82]
	Blastocystis	Blastocystis	18S (291)			[109-112]
	Bolidophyceae	various genera	18S (11)			[113]
	Chrysophyceae-Synurophyceae	Dinobryon	COI (44)	ITS (44)		[114]
		Synura	ITS (139)	18S (113)		[115]
	Dictyochophyceae	various genera	18S (33)	ITS (46)		[116,117]
	Eustigmatophyceae	various genera	18S (96)	ITS (8)		[117]
	Labyrinthulea	various genera	18S (435)	ITS (85)		[118]
	Oomyceta	various genera	ITS (7029)	COI (450)	18S (456)	[81,119]
	Slopalinida	various genera	18S (14)			[120,121]
	Pelagophyceae	various genera	18S (64)			[117]
	Phaeophyceae	Fucus	COI (125)	ITS (116)		[122]
	Phaeophyceae	various genera	COI (1781)	ITS (1459)	Cp 23S (14)	[55,123-125]
	Raphidophyceae	Chattonella	COI (156)	ITS (119)	18S (20)	[126]
	Xanthophyceae	various genera	rbcL (266)	18S (73)		[127]
xxx	Centroheliozoa	various genera	18S (40)			[128]
xxx	Cryptophyta	various genera	18S (299)	ITS (66)		[129]
xxx	Haptophyta	various genera	18S (338)	28S (113)	ITS (45)	[130]

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