

Table S10. Bacteria and Eukarya mRNA (and other non-rRNA) gene sequences from V6.

Sequence ID	Q length	Q start	Q end	e-value	%-ident	%-sim	GI hit	Domain	Phylum	Class	Genus/species	Description
VostokV6_c1	2175	1	2175	0	1	1	291375051	Bacteria	Actinobacteria	Actinobacteria	Propionibacterium acnes	Propionibacterium acnes SK137, complete genome
VostokV6_c21	1016	1	1016	0	0.99	0.99	239837778	Bacteria	Actinobacteria	Actinobacteria	Micrococcus luteus	Micrococcus luteus NCTC 2665, complete genome
VostokV6_rep_c158	182	1	182	3E-61	0.91	0.91	237757549	Bacteria	Actinobacteria	Actinobacteria	Corynebacterium kroppenstedtii	Corynebacterium kroppenstedtii DSM 44385, complete genome
VostokV6_rep_c162	209	12	209	2E-63	0.9	0.9	171850984	Bacteria	Actinobacteria	Actinobacteria	Corynebacterium urealyticum	Corynebacterium urealyticum DSM 7109 complete genome
VostokV6_rep_c202	205	1	205	3E-92	0.97	0.97	119947346	Bacteria	Actinobacteria	Actinobacteria	Arthrobacter aureus	Arthrobacter aureus TC1, complete genome
VostokV6_rep_c217	321	1	321	9E-124	0.92	0.92	38200856	Bacteria	Actinobacteria	Actinobacteria	Corynebacterium diphtheriae	Corynebacterium diphtheriae gravis NCTC13129, complete genome; segment 7/8
VostokV6_rep_c241	71	1	71	9E-27	0.99	0.99	227452846	Bacteria	Actinobacteria	Actinobacteria	Corynebacterium aurimucosum	Corynebacterium aurimucosum ATCC 700975, complete genome
VostokV6_rep_c246	175	4	175	2E-52	0.89	0.89	140843962	Bacteria	Actinobacteria	Actinobacteria	Corynebacterium glutamicum	Corynebacterium glutamicum R DNA, complete genome
VostokV6_s74	113	1	113	1E-47	0.98	0.98	162952245	Bacteria	Actinobacteria	Actinobacteria	Renibacterium salmoninarum	Renibacterium salmoninarum ATCC 33209, complete genome
VostokV6_c235	95	1	95	1E-41	1	1	254946573	Bacteria	Bacteroidetes	Cytophagia	Dyadobacter fermentans	Dyadobacter fermentans DSM 18053, complete genome
VostokV6_c112	258	5	258	6E-35	0.79	0.79	218766851	Bacteria	Deinococcus-Thermus	Deinococci	Thermus thermophilus	Chain A, Crystal Structure Of A Translation Termination Complex Formed With Release f
VostokV6_c161	147	1	142	2E-53	0.94	0.94	289178903	Bacteria	Firmicutes	Bacilli	Staphylococcus lugdunensis	Staphylococcus lugdunensis HKU09-01, complete genome
VostokV6_c212	189	1	189	3E-72	0.94	0.94	256797400	Bacteria	Firmicutes	Clostridia	Anaerococcus prevotii	Anaerococcus prevotii DSM 20548, complete genome
VostokV6_c256	587	31	587	0	0.95	0.95	295107714	Bacteria	Firmicutes	Clostridia	Ruminococcus obeum	Ruminococcus obeum A2-162 draft genome
VostokV6_c263	154	1	154	2E-68	0.98	0.98	9664721	Bacteria	Firmicutes	Bacilli	Staphylococcus epidermidis	Staphylococcus epidermidis strain SR1 clone step.1003c05 genomic sequence
VostokV6_c269	191	1	191	1E-85	0.97	0.97	134265192	Bacteria	Firmicutes	Bacilli	Geobacillus thermodenitrificans	Geobacillus thermodenitrificans NG80-2, complete genome
VostokV6_c4	896	1	896	0	0.99	0.99	9624251	Bacteria	Firmicutes	Bacilli	Staphylococcus epidermidis	Staphylococcus epidermidis strain SR1 clone step.4018e08 genomic sequence
VostokV6_c66	57	1	57	4E-19	0.98	0.98	288906474	Bacteria	Firmicutes	Bacilli	Streptococcus mitis	Streptococcus mitis B6 complete genome, strain B6
VostokV6_c97	217	1	217	1E-81	0.93	0.93	262396937	Bacteria	Firmicutes	Bacilli	Lactobacillus johnsonii	Lactobacillus johnsonii F19785, complete genome
VostokV6_rep_c149	186	1	186	9E-87	0.98	0.98	225726369	Bacteria	Firmicutes	Bacilli	Streptococcus pneumoniae	Streptococcus pneumoniae Taiwan19F-14, complete genome
VostokV6_rep_c178	168	1	168	8E-82	1	1	9664799	Bacteria	Firmicutes	Bacilli	Staphylococcus epidermidis	Staphylococcus epidermidis strain SR1 clone step.1005d12 genomic sequence
VostokV6_rep_c204	316	53	316	7E-130	0.99	0.99	68445725	Bacteria	Firmicutes	Bacilli	Staphylococcus haemolyticus	Staphylococcus haemolyticus JCSC1435 DNA, complete genome
VostokV6_rep_c139	317	1	317	3E-119	0.92	0.92	257048753	Bacteria	Fusobacteria	Fusobacteria	Leptotrichia buccalis	Leptotrichia buccalis DSM 1135, complete genome
VostokV6_c185	164	1	164	1E-79	1	1	193084619	Bacteria	n	n	uncultured bacterium HF0500_12004	Uncultured bacterium HF0500_12004 genomic sequence
VostokV6_c248	245	3	209	1E-22	0.77	0.77	193084063	Bacteria	n	n	uncultured bacterium KM3-23-D4	Uncultured bacterium KM3-23-D4 genomic sequence
VostokV6_s291	200	1	200	2E-68	0.92	0.92	62860402	Bacteria	n	n	uncultured bacterium zdt-44a23	Uncultured bacterium zdt-44a23 clone zdt-44a23, complete sequence
VostokV6_rep_c123	498	48	498	0	0.94	0.94	193084637	Bacteria	n	n	uncultured bacterium HF4000_16C08	Uncultured bacterium HF4000_16C08 genomic sequence
VostokV6_c15	584	1	584	0	1	1	146403799	Bacteria	Proteobacteria	Alphaproteobacteria	Bradyrhizobium sp. BTAi1	Bradyrhizobium sp. BTAi1, complete genome
VostokV6_rep_c230	265	2	265	2E-114	0.96	0.96	188532098	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingobium chungbukense	Sphingobium chungbukense rrnC operon, complete sequence
VostokV6_s272	222	2	222	3E-97	0.96	0.96	288914861	Bacteria	Proteobacteria	Alphaproteobacteria	Azospirillum sp. B510	Azospirillum sp. B510 plasmid pAB510e DNA, complete genome
VostokV6_c11	1091	23	1091	0	0.95	0.95	190714218	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderia cenocepacia	Burkholderia cenocepacia J2315 chromosome 3, complete genome
VostokV6_c118	120	1	120	2E-55	1	1	189338131	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderia multivorans	Burkholderia multivorans ATCC 17616 genomic DNA, complete genome, chromosome 3
VostokV6_c144	253	68	253	2E-80	0.96	0.96	115280044	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderia ambifaria	Burkholderia ambifaria AMMD chromosome 1, complete sequence
VostokV6_c16	689	25	689	0	0.98	0.98	120591888	Bacteria	Proteobacteria	Betaproteobacteria	Polaromonas naphthalenivorans	Polaromonas naphthalenivorans CJ2, complete genome
VostokV6_c20	548	8	548	0	0.93	0.93	105891751	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderia cenocepacia	Burkholderia cenocepacia AU 1054 chromosome 1, complete sequence
VostokV6_c209	101	1	101	7E-45	1	1	134134073	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderia vietnamiensis	Burkholderia vietnamiensis G4 chromosome 3, complete sequence
VostokV6_c245	332	1	332	8E-90	0.86	0.86	160361034	Bacteria	Proteobacteria	Betaproteobacteria	Delftia acidovorans	Delftia acidovorans SPH-1, complete genome
VostokV6_c255	153	1	153	3E-71	0.99	0.99	134137285	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderia vietnamiensis	Burkholderia vietnamiensis G4 chromosome 1, complete sequence
VostokV6_c262	138	1	138	3E-65	1	1	134135188	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderia vietnamiensis	Burkholderia vietnamiensis G4 chromosome 2, complete sequence
VostokV6_c268	191	71	191	6E-14	0.8	0.8	294338440	Bacteria	Proteobacteria	Betaproteobacteria	Thiomonas sp. 3As	Thiomonas sp. str. 3As, chromosome, complete genome
VostokV6_c72	111	1	96	2E-25	0.9	0.9	121551644	Bacteria	Proteobacteria	Betaproteobacteria	Verminephrobacter eiseniae	Verminephrobacter eiseniae EF01-2, complete genome
VostokV6_rep_c124	358	1	358	2E-155	0.95	0.95	221728669	Bacteria	Proteobacteria	Betaproteobacteria	Acidovorax ebreus	Acidovorax ebreus TPSY, complete genome
VostokV6_rep_c77	251	1	251	2E-95	0.92	0.92	237502667	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderia pseudomallei	Burkholderia pseudomallei MSHR346 chromosome I, complete sequence
VostokV6_c146	924	1	924	0	0.91	0.91	157065147	Bacteria	Proteobacteria	Gammaproteobacteria	Escherichia coli	Escherichia coli HS, complete genome
VostokV6_c17	2018	56	2018	0	1	1	606010	Bacteria	Proteobacteria	Gammaproteobacteria	Escherichia coli	Escherichia coli K-12 chromosomal region from 67.4 to 76.0 minutes
VostokV6_c247	203	1	203	6E-94	0.98	0.98	145692985	Bacteria	Proteobacteria	Gammaproteobacteria	Pseudomonas aeruginosa	Pseudomonas aeruginosa strain NIH-1 tail fiber (prf15) and tail fiber assembly (prf16) ge
VostokV6_c264	137	4	64	1E-14	0.93	0.93	288887617	Bacteria	Proteobacteria	Gammaproteobacteria	Klebsiella variicola	Klebsiella variicola At-22, complete genome
VostokV6_c33	1524	29	1524	0	0.99	0.99	218350208	Bacteria	Proteobacteria	Gammaproteobacteria	Escherichia coli	Escherichia coli 55989 chromosome, complete genome
VostokV6_c34	1654	1	1421	0	0.95	0.95	5801827	Bacteria	Proteobacteria	Gammaproteobacteria	Escherichia coli	Escherichia coli rrID operon, complete sequence
VostokV6_c7	712	1	712	0	1	1	284919779	Bacteria	Proteobacteria	Gammaproteobacteria	Escherichia coli	Escherichia coli 042 complete genome
VostokV6_c70	113	42	113	1E-22	0.95	0.95	294489418	Bacteria	Proteobacteria	Gammaproteobacteria	Escherichia coli	Escherichia coli IHE3034, complete genome
VostokV6_c98	102	1	102	1E-38	0.96	0.96	229359445	Bacteria	Proteobacteria	Gammaproteobacteria	Pseudomonas fluorescens	Pseudomonas fluorescens SBW25 complete genome
VostokV6_rep_c104	605	1	563	0	0.99	0.99	281599365	Bacteria	Proteobacteria	Gammaproteobacteria	Shigella flexneri	Shigella flexneri 2002017, complete genome
VostokV6_rep_c117	194	1	194	2E-73	0.93	0.93	161361677	Bacteria	Proteobacteria	Gammaproteobacteria	Salmonella enterica	Salmonella enterica subsp. enterica serovar Paratyphi B str. SPB7, complete genome
VostokV6_rep_c125	151	1	85	4E-34	0.99	0.99	290760697	Bacteria	Proteobacteria	Gammaproteobacteria	Escherichia coli	Escherichia coli O55:H7 str. CB9615, complete genome
VostokV6_rep_c136	351	58	351	4E-138	0.98	0.98	257762509	Bacteria	Proteobacteria	Gammaproteobacteria	Escherichia coli	Escherichia coli O111:H- str. 11128 DNA, complete genome
VostokV6_rep_c155	257	1	257	2E-125	0.99	0.99	291150583	Bacteria	Proteobacteria	Gammaproteobacteria	Pantoea ananatis	Pantoea ananatis LMG 20103, complete genome
VostokV6_rep_c168	556	34	556	0	0.99	0.99	238859724	Bacteria	Proteobacteria	Gammaproteobacteria	Escherichia coli	Escherichia coli BW2952, complete genome
VostokV6_rep_c198	1034	1	1034	0	1	1	260447279	Bacteria	Proteobacteria	Gammaproteobacteria	Escherichia coli	Escherichia coli DH1, complete genome
VostokV6_rep_c200	325	1	325	9E-139	0.94	0.94	206564770	Bacteria	Proteobacteria	Gammaproteobacteria	Klebsiella pneumoniae	Klebsiella pneumoniae 342, complete genome
VostokV6_rep_c218	285	62	285	2E-85	0.93	0.93	291551905	Bacteria	Proteobacteria	Gammaproteobacteria	Erwinia amylovora	Erwinia amylovora CFBP1430 complete genome
VostokV6_rep_c43	708	1	637	0	0.98	0.98	218425442	Bacteria	Proteobacteria	Gammaproteobacteria	Escherichia coli	Escherichia coli ED1a chromosome, complete genome

VostokV6_rep_c52	454	1	453	0	0.98	0.98	291220687	Bacteria	Proteobacteria	Gammaproteobacteria	Escherichia coli	Escherichia coli BL21(DE3), complete genome
VostokV6_s116	215	1	215	2E-104	0.99	0.99	281177210	Bacteria	Proteobacteria	Gammaproteobacteria	Escherichia coli	Escherichia coli SE15 DNA, complete genome
VostokV6_s87	79	1	79	5E-30	0.98	0.98	253778933	Bacteria	Proteobacteria	Gammaproteobacteria	Photorhabdus asymbiotica	Photorhabdus asymbiotica ATCC43949 complete genome
VostokV6_rep_c171	564	28	536	0	0.99	0.99	294910885	Eukaryota	Arthropoda	Arachnida	Dermacentor variabilis	TSA: Dermacentor variabilis contig00102.Dvb, mRNA sequence
VostokV6_rep_c192	247	1	247	4E-121	0.98	0.98	294661761	Eukaryota	Arthropoda	Branchiopoda	Daphnia pulex	Daphnia pulex ncRNA, kairomone-inducible transcript
VostokV6_s122	220	1	220	5E-105	0.98	0.98	294922086	Eukaryota	Arthropoda	Arachnida	Dermacentor variabilis	TSA: Dermacentor variabilis contig01324.Dvc, mRNA sequence
VostokV6_s69	206	1	206	1E-91	0.96	0.96	294922085	Eukaryota	Arthropoda	Arachnida	Dermacentor variabilis	TSA: Dermacentor variabilis contig01323.Dvc, mRNA sequence
VostokV6_s73	107	1	65	5E-22	0.97	0.97	294910977	Eukaryota	Arthropoda	Arachnida	Dermacentor variabilis	TSA: Dermacentor variabilis contig00178.Dvb, mRNA sequence
VostokV6_c167	43	6	43	7E-09	0.97	0.97	285811954	Eukaryota	Ascomycota	Saccharomycetes	Saccharomyces cerevisiae	TPA_inf: Saccharomyces cerevisiae strain S288C chromosome VII, complete sequence
VostokV6_c257	278	1	278	2E-125	0.96	0.96	285813361	Eukaryota	Ascomycota	Saccharomycetes	Saccharomyces cerevisiae	TPA_inf: Saccharomyces cerevisiae strain S288C chromosome XII, complete sequence
VostokV6_c71	43	1	43	3E-13	1	1	285813870	Eukaryota	Ascomycota	Saccharomycetes	Saccharomyces cerevisiae	TPA_inf: Saccharomyces cerevisiae strain S288C chromosome XIII, complete sequence

Factor Rf2. This file contains the 50s subunit of the second 70s ribosome. The entire crystal structure contains two 70s ribosomes as described in Remark 400.

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enes, complete cds