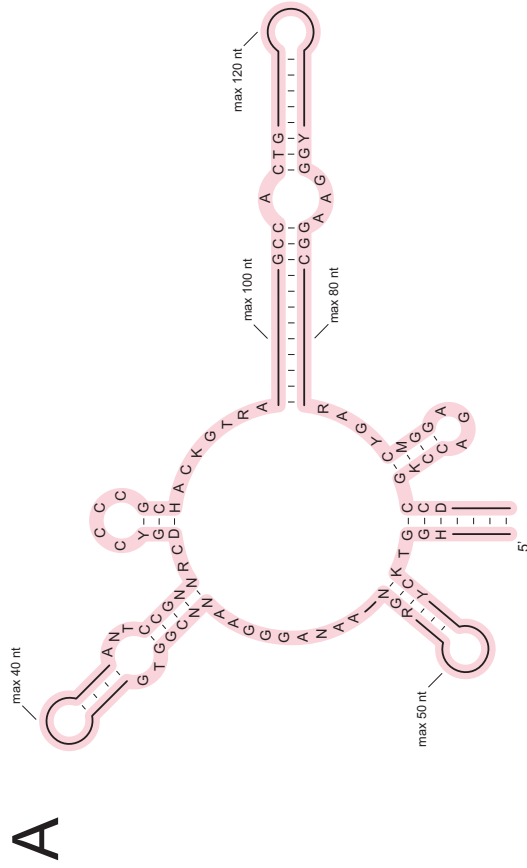


Additional file 11: (A) Cobalamin riboswitch (B₁₂-element) pattern. (B) List of identified cobalamin riboswitches. (C) Alignment of cobalamin riboswitch sequences.



B

Accession	Metagenome	Start position	End position	Regulated function (COG)
CH004480	Sargasso	71781	71566	COG4206
CH0044619	Sargasso	21809	21991	End of DNA fragment
CH004714	Sargasso	46521	46684	End of DNA fragment
CH004714	Sargasso	48933	49096	COG4206
CH007532	Sargasso	2636	2844	COG4206
CH021003	Sargasso	1469	1287	COG4206
CH024032	Sargasso	4608	4785	COG4206
CH025096	Sargasso	9886	9718	COG4206
CH026647	Sargasso	1046	1284	COG4206
CH026903	Sargasso	8001	8179	COG4206
CH026979	Sargasso	21889	21713	COG4206
CH027146	Sargasso	62416	62254	COG4206
CH027167	Sargasso	10637	10799	COG4206
CH068215	Sargasso	5472	5674	No ORF
CH079196	Sargasso	818	645	COG4206
CH082828	Sargasso	5186	5352	COG4206
CH090973	Sargasso	437	605	No ORF
CH114488	Sargasso	61	220	No similar proteins
CH118992	Sargasso	437	242	No similar proteins
CH122549	Sargasso	675	866	End of DNA fragment
CH132537	Sargasso	496	679	No ORF
CH133412	Sargasso	2948	3149	No similar proteins
CH139271	Sargasso	3396	3193	No similar proteins
CH140012	Sargasso	2615	2780	COG4206
CH154921	Sargasso	4533	4331	No similar proteins
CH164044	Sargasso	3817	4023	COG0523
CH167673	Sargasso	4724	4566	COG4206
CH194864	Sargasso	2225	2025	COG2370
CH208519	Sargasso	1956	2105	COG4206
CH223512	Sargasso	2352	2535	COG0523
CH228305	Sargasso	2359	2527	No similar proteins
CH233447	Sargasso	523	359	No similar proteins
AAF01002834	Soil	203	399	COG4206
AAF01019365	Soil	583	778	No similar proteins
AAF01031697	Soil	761	945	No similar proteins
AAF01036690	Soil	1213	1002	COG4206
AAF01047844	Soil	1	146	COG0614
AAF01048875	Soil	911	711	COG0614
AAF01049373	Soil	234	52	No similar proteins
AAF01053855	Soil	601	784	No similar proteins
AAF01075090	Soil	545	788	No ORF
AAF01087041	Soil	422	259	COG1398
AAF01090988	Soil	145	326	No similar proteins
AAF01091066	Soil	567	810	No ORF
AAF01096519	Soil	189	420	COG4206
AAF01114101	Soil	504	747	No ORF
AAF01001147	Whale1	1565	1364	COG0614
AAF01001400	Whale1	406	604	COG4206
AAF01002311	Whale1	611	779	COG4206
AAF01004391	Whale1	823	621	COG4206
AAF01006349	Whale1	761	584	COG0609
AAF01008015	Whale1	417	229	COG2087
AAF01018715	Whale1	722	551	No similar proteins
AAF01020561	Whale1	336	140	No similar proteins
AAF01026153	Whale1	291	134	No similar proteins
AAF01000982	Whale2	903	704	COG4206
AAGA0100085	Whale3	2922	3132	COG4206
AAGA01006787	Whale3	585	374	COG1629
AAGA0102622	Whale3	428	231	No similar proteins
AAGA01023168	Whale3	337	509	COG0620

