

Supplemental Table 1. Detailed community features of each sample

Group	Sample ID	Reads	0.97				
			OTU	Ace	Chao	Shannon	Simpson
VAD	A107	10,911	37	45 (39-65)	42 (38-60)	1.47 (1.46-1.48)	0.305 (0.3008-0.3092)
VAD	A108	10,911	48	59 (52-79)	57 (50-84)	0.14 (0.13-0.15)	0.9645 (0.9615-0.9675)
VAD	A109	10,911	24	54 (37-92)	42 (-28-105)	1.2 (1.19-1.21)	0.3951 (0.3903-0.3999)
VAD	A110	10,911	79	88 (-82-103)	85 (-81-101)	0.98 (0.95-1.02)	0.6856 (0.6748-0.6963)
VAD	A111	10,911	63	78 (-68-104)	74 (-66-103)	1.93 (1.91-1.95)	0.228 (0.224-0.2321)
VAD	A112	10,911	37	51 (41-81)	46 (39-74)	1.64 (1.62-1.66)	0.2851 (0.2786-0.2917)
VAD	A118	10,911	35	84 (-61-126)	51 (39-93)	0.98 (0.97-1)	0.5323 (0.5258-0.5389)
VAD	A120	10,911	72	97 (-83-131)	98 (-81-145)	0.98 (0.96-1)	0.6372 (0.6297-0.6448)
VAD	A121	10,911	47	73 (-60-101)	55 (49-78)	1.64 (1.62-1.66)	0.3075 (0.3013-0.3136)
VAD	A123	10,911	50	88 (-70-121)	81 (-59-149)	0.53 (0.51-0.54)	0.785 (0.7785-0.7914)
VAD	A124	10,911	91	159 (-133-202)	143 (-111-222)	0.57 (0.55-0.59)	0.829 (0.8219-0.836)
VAD	A125	10,911	47	71-164	71 (-55-122)	0.78 (0.77-0.79)	0.51 (0.5069-0.5131)
VAD	A127	10,911	24	55 (38-93)	42 (28-99)	0.32 (0.3-0.34)	0.8834 (0.8764-0.8904)
VAD	A128	10,911	42	156 (-115-221)	78 (-55-145)	0.37 (0.36-0.39)	0.8162 (0.8102-0.8223)
VAD	A129	10,911	34	52 (40-86)	47 (38-80)	0.1 (0.09-0.12)	0.9737 (0.9702-0.9771)
VAD	A36	10,911	52	70 (60-94)	63 (55-96)	2.2 (2.19-2.22)	0.1516 (0.1498-0.1535)
VAD	A4	10,911	19	37 (26-64)	26 (20-56)	0.17 (0.16-0.18)	0.9431 (0.9386-0.9477)
VAD	A43	10,911	29	42 (32-82)	38 (31-69)	1.35 (1.34-1.37)	0.3436 (0.3398-0.3475)
VAD	A44	10,911	52	65 (57-87)	61 (55-84)	0.42 (0.41-0.44)	0.8372 (0.8313-0.8432)
VAD	A45	10,911	41	62 (50-89)	52 (44-89)	1.9 (1.88-1.92)	0.1913 (0.1883-0.1943)
VAD	A57	10,911	47	74 (-60-102)	70 (-53-129)	1.68 (1.67-1.69)	0.2321 (0.2297-0.2345)
VAD	A61	10,911	38	51 (42-76)	49 (41-80)	0.82 (0.81-0.84)	0.5963 (0.5883-0.6043)
VAD	A73	10,911	56	62 (58-76)	68 (-59-110)	1.32 (1.31-1.34)	0.382 (0.3774-0.3866)
VAD	A77	10,911	45	63 (52-95)	56 (48-80)	0.59 (0.57-0.61)	0.7452 (0.7378-0.7525)
VAD	A78	10,911	80	86 (82-98)	83 (81-94)	1.17 (1.15-1.19)	0.5668 (0.5584-0.5752)
VAD	A8	10,911	27	32 (28-48)	30 (28-45)	0.12 (0.11-0.13)	0.9694 (0.9657-0.9731)
VAD	A80	10,911	42	51 (45-75)	54 (45-96)	1.64 (1.62-1.66)	0.3557 (0.3473-0.3641)
VAD	A85	10,911	28	59 (-37-135)	63 (-38-154)	0.77 (0.76-0.79)	0.6563 (0.649-0.6635)
VAD	A93	10,911	32	50 (40-75)	43 (35-80)	0.69 (0.67-0.71)	0.6332 (0.6239-0.6425)
VAD	A99	10,911	49	60 (53-82)	58 (51-85)	2.15 (2.13-2.16)	0.1602 (0.1573-0.163)
VAN	B100	10,911	32	93 (-66-144)	50 (-36-107)	1.51 (1.49-1.52)	0.3088 (0.303-0.3146)
VAN	B102	10,911	63	93 (-78-121)	85 (-70-131)	0.86 (0.83-0.88)	0.701 (0.6917-0.7102)

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			OTU	Ace	Chao	Shannon	Simpson
VAN	B119	10,911	40	70 –155	48 (42–71)	1.56 (1.54–1.58)	0.281 (0.2771–0.285)
VAN	B13	10,911	28	52 (38–83)	34 (29–55)	1.58 (1.57–1.59)	0.2466 (0.244–0.2491)
VAN	B131	10,911	67	75 (70–92)	73 (68–89)	1.48 (1.46–1.5)	0.4407 (0.4335–0.4479)
VAN	B16	10,911	58	78 (–66–109)	73 (–63–105)	0.75 (0.73–0.76)	0.6564 (0.6496–0.6633)
VAN	B17	10,911	39	51 (43–77)	47 (41–70)	1.46 (1.45–1.47)	0.296 (0.2933–0.2988)
VAN	B20	10,911	47	96 (–73–140)	64 (–52–100)	1.5 (1.49–1.52)	0.3042 (0.3001–0.3082)
VAN	B22	10,911	46	71 (58–99)	57 (49–88)	1.32 (1.31–1.34)	0.3517 (0.3482–0.3552)
VAN	B23	10,911	33	66 (–48–105)	49 (37–91)	1.16 (1.14–1.18)	0.3982 (0.3933–0.4032)
VAN	B24	10,911	65	94 (–80–123)	82 (–70–119)	2.01 (1.99–2.02)	0.197 (0.1935–0.2006)
VAN	B27	10,911	49	109 (–83–155)	87 (–61–167)	0.71 (0.7–0.73)	0.706 (0.6984–0.7135)
VAN	B28	10,911	33	53 (42–80)	40 (34–67)	1.71 (1.7–1.73)	0.2492 (0.2453–0.2532)
VAN	B30	10,911	29	45 (35–67)	41 (32–83)	1.15 (1.13–1.17)	0.4569 (0.4484–0.4654)
VAN	B35	10,911	88	108 (–96–136)	109 (–95–150)	1.46 (1.44–1.47)	0.4284 (0.4222–0.4346)
VAN	B37	10,911	26	67 (–47–108)	35 (28–64)	1.03 (1.02–1.04)	0.4067 (0.4029–0.4105)
VAN	B39	10,911	33	88 (–61–139)	59 (–40–132)	0.96 (0.94–0.98)	0.5215 (0.5134–0.5296)
VAN	B40	10,911	50	62 (54–87)	61 (53–92)	1.9 (1.88–1.91)	0.2208 (0.218–0.2237)
VAN	B46	10,911	42	51 (45–70)	48 (43–66)	0.45 (0.43–0.47)	0.8484 (0.8412–0.8556)
VAN	B51	10,911	46	66 (55–91)	51 (47–68)	2.27 (2.25–2.3)	0.1507 (0.1472–0.1542)
VAN	B54	10,911	30	66 (–46–110)	58 (–37–143)	0.97 (0.95–0.98)	0.504 (0.4974–0.5107)
VAN	B65	10,911	37	48 (40–74)	60 (–42–134)	1.48 (1.46–1.49)	0.309 (0.3047–0.3133)
VAN	B9	10,911	47	96 (–74–136)	69 (–54–115)	1.1 (1.08–1.11)	0.4203 (0.4172–0.4234)
VAN	B95	10,911	33	41 (35–63)	37 (34–52)	2.06 (2.05–2.08)	0.1803 (0.1768–0.1838)
VAN	B98	10,911	36	54 (41–93)	62 (–43–135)	1.57 (1.56–1.58)	0.2368 (0.235–0.2385)
VAN	19	10,911	34	61 (46–95)	43 (36–71)	1.32 (1.31–1.34)	0.3671 (0.3622–0.3719)
VAN	21	10,911	44	123 (–90–182)	76 (–54–140)	1.19 (1.17–1.22)	0.482 (0.4727–0.4913)
VAN	29	10,911	157	164 (–160–175)	166 (–160–185)	1.32 (1.29–1.34)	0.5897 (0.5821–0.5972)
VAN	38	10,911	53	98 (–78–135)	87 (–64–161)	1.5 (1.48–1.51)	0.3278 (0.324–0.3317)