

Table s6. Characteristics of clusters for subtype B, CRF01_AE, and CRF07_BC

	Men	Women	CD4	Age	Han	Uyghur	Yi	Others	Heterosexual	MSM	IDU	Blood transmission	Mother to child	North	North-east	East	Central-south	South-west	North-west
B Cluster																			
1	1769(97.36)	48(2.64)	306(178-450)	32(27-40)	1291(95.35)	4(0.3)	3(0.22)	56(4.14)	363(19.61)	1446(78.12)	21(1.13)	21(1.13)	0(0)	954(51.21)	214(1.49)	292(15.67)	252(13.53)	82(4.4)	69(3.7)
2	111(63.43)	64(36.57)	258(92-375.5)	39(33-51)	159(96.36)	1(0.61)	0(0)	5(3.03)	134(44.67)	28(9.33)	34(11.33)	101(33.67)	3(1)	63(20.66)	25(8.2)	47(15.41)	114(37.38)	50(16.39)	6(1.97)
3	286(70.44)	120(29.56)	315(174-428)	38(29-49)	326(96.45)	1(0.3)	0(0)	11(3.25)	194(34.22)	154(27.16)	7(1.23)	205(36.16)	7(1.23)	159(27.65)	34(5.91)	94(16.35)	259(45.04)	14(2.43)	15(2.61)
01AE Cluster																			
1	1881(97.41)	50(2.59)	335(204-466)	31(26-41)	1345(95.46)	0(0)	2(0.14)	62(4.4)	356(18.28)	1571(80.69)	19(0.98)	1(0.05)	0(0)	793(40.63)	541(27.72)	247(12.65)	262(13.42)	58(2.97)	51(2.61)
2	383(79.13)	101(20.87)	285(93-410)	37(28-49.75)	366(97.86)	0(0)	0(0)	8(2.14)	592(64.77)	224(24.51)	72(7.88)	20(2.19)	6(0.66)	166(18.06)	38(4.13)	192(20.89)	410(44.61)	107(11.64)	6(0.65)
3	392(98.99)	4(1.01)	344(235-484)	30(26-38.5)	308(96.55)	0(0)	0(0)	11(3.45)	70(17.68)	324(81.82)	2(0.51)	0(0)	0(0)	206(52.02)	41(10.35)	74(18.69)	43(10.86)	19(4.8)	13(3.28)
4	1360(97.98)	28(2.02)	337(215-461)	30(25-37)	969(96.51)	1(0.1)	1(0.1)	33(3.29)	237(16.64)	1164(81.74)	18(1.26)	5(0.35)	0(0)	638(44.87)	148(10.41)	293(20.6)	238(16.74)	53(3.73)	52(3.66)
5	2352(98.7)	31(1.3)	321(178-456)	30(26-37)	1245(95.92)	2(0.15)	0(0)	51(3.93)	349(14.2)	2080(84.62)	19(0.77)	10(0.41)	0(0)	676(27.48)	207(8.41)	996(40.49)	370(15.04)	134(5.45)	77(3.13)
6	232(99.57)	1(0.43)	351(219-500)	33(28-46.25)	181(94.27)	0(0)	0(0)	11(5.73)	34(14.47)	199(84.68)	2(0.85)	0(0)	0(0)	144(61.28)	22(9.36)	25(10.64)	28(11.91)	7(2.98)	9(3.83)
7	295(96.72)	10(3.28)	3-422.25)	33(27-44)	251(97.67)	0(0)	0(0)	6(2.33)	66(22)	228(76)	5(1.67)	1(0.33)	0(0)	151(50)	41(13.58)	40(13.25)	41(13.58)	10(3.31)	19(6.29)
07BC Cluster																			
1	2888(97.44)	76(2.56)	363(255-500)	31(26-42)	1913(96.57)	0(0)	3(0.15)	65(3.28)	476(15.9)	2485(83)	27(0.9)	6(0.2)	0(0)	1023(34.09)	281(9.36)	589(19.63)	681(22.69)	324(10.8)	103(3.43)
2	759(77.13)	225(22.87)	364(241-506)	33(26-41)	482(52.97)	276(30.33)	117(12.86)	35(3.85)	430(25.97)	223(13.47)	979(59.12)	21(1.27)	3(0.18)	277(16.61)	72(4.32)	98(5.88)	181(10.85)	709(42.51)	331(19.84)
3	825(97.75)	19(2.25)	362(257-487)	31(26-41)	540(96.09)	1(0.18)	1(0.18)	20(3.56)	133(15.38)	718(83.01)	11(1.27)	3(0.35)	0(0)	310(35.8)	77(8.9)	161(18.59)	217(25.06)	75(8.66)	26(3)
4	259(98.85)	3(1.15)	417(275-515)	30(26-37)	177(94.15)	0(0)	0(0)	11(5.85)	47(17.67)	217(81.58)	1(0.38)	1(0.38)	0(0)	113(42.16)	29(10.82)	32(11.94)	69(25.75)	15(5.6)	10(3.73)

Data are n(%), or median (IQR).

MSM, Man who have sex with man.

North, Beijing, Tianjin, Hebei, Shanxi, and Inner Mongolia;

North-east, Liaoning, Jilin, and Heilongjiang;

East, Shanghai, Jiangsu, Zhejiang, Anhui, Fujian, Jiangxi, and Shandong;

Central- south, Henan, Hubei, Hunan, Guangdong, Guangxi, and Hainan;

South-west, Chongqing, Sichuan, Guizhou, Yunnan, and Tibet;

North-west, Shann'xi, Gansu, Qinghai, Ningxia, and Sinkiang.