

Figure S1

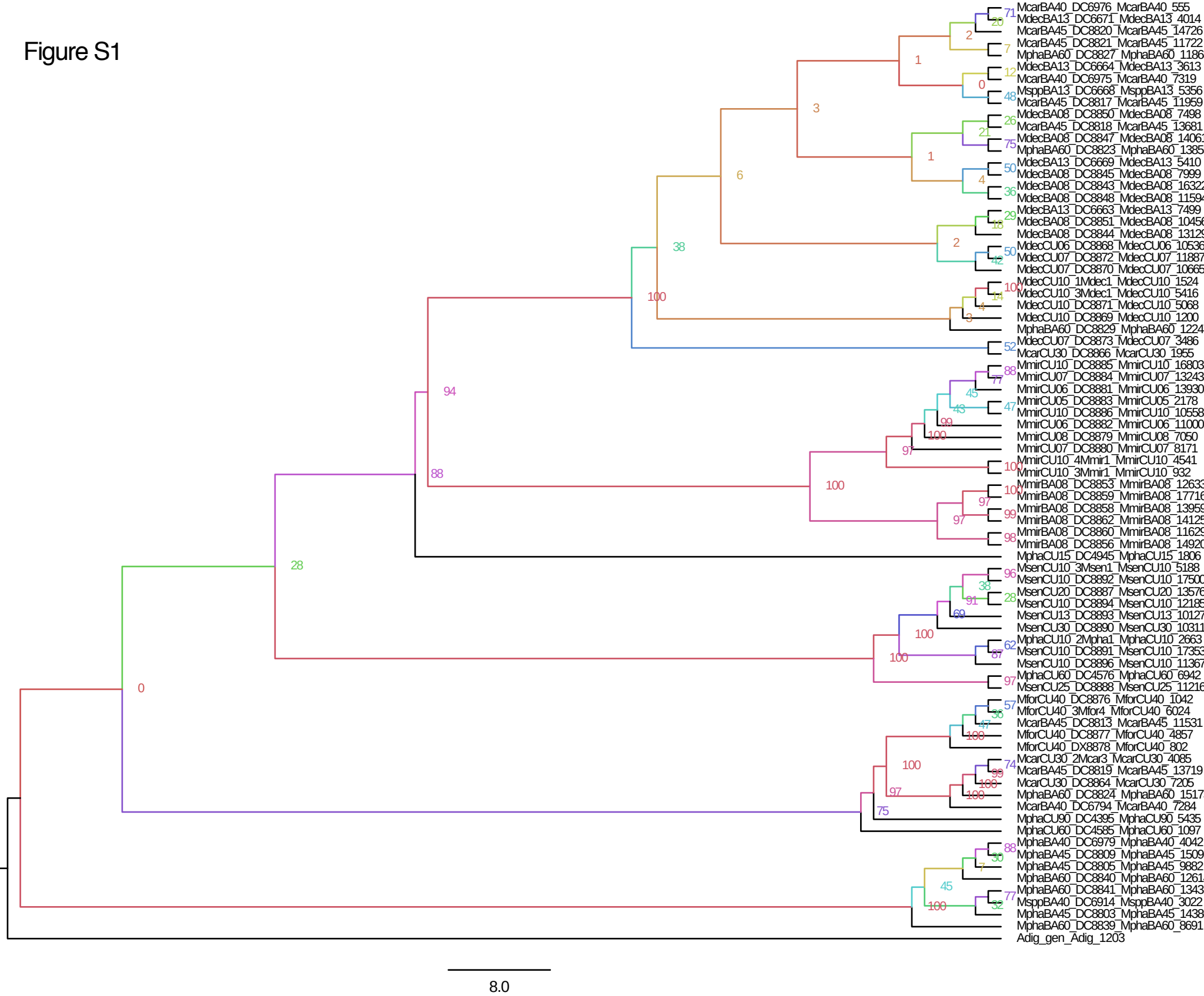
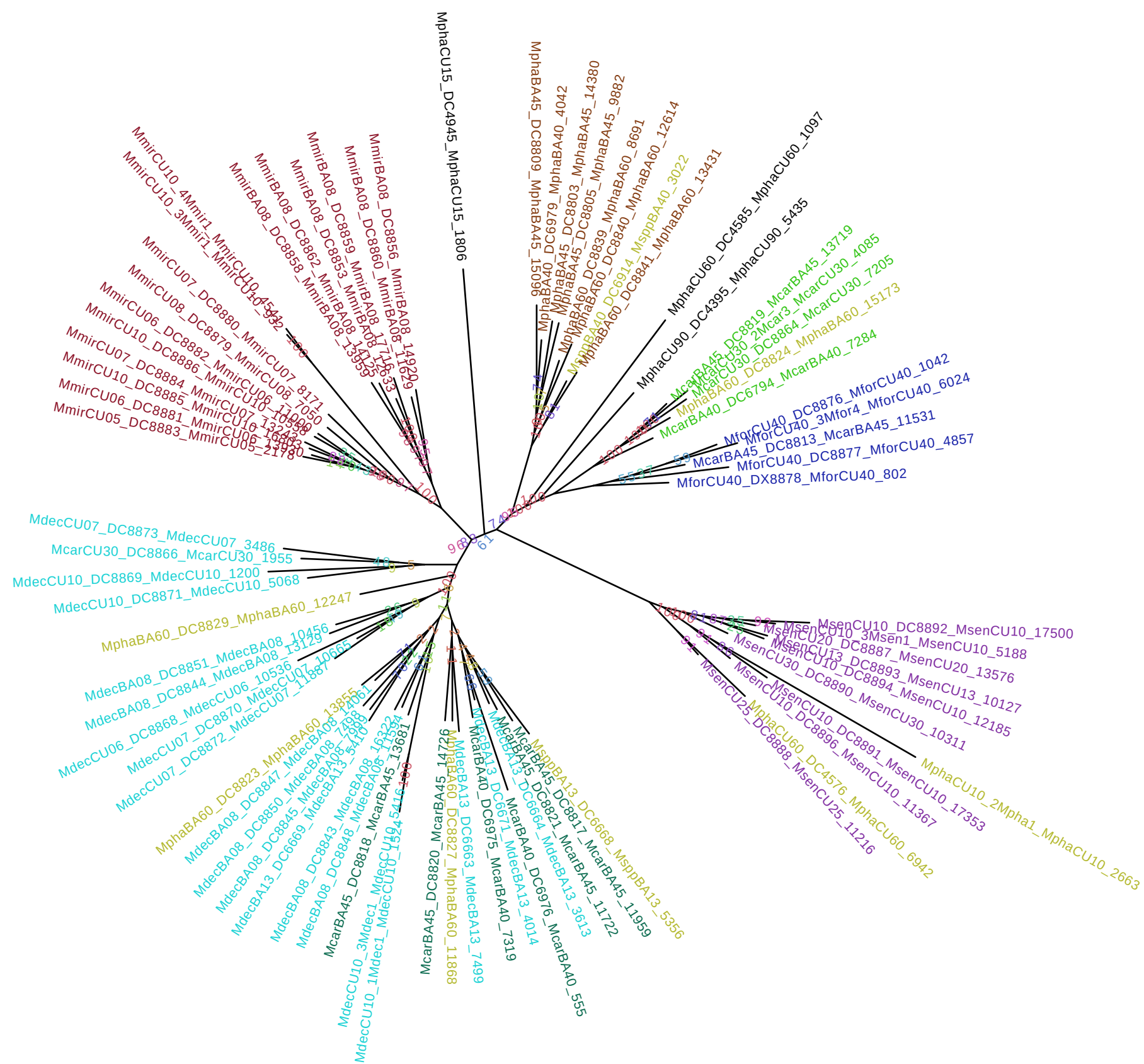
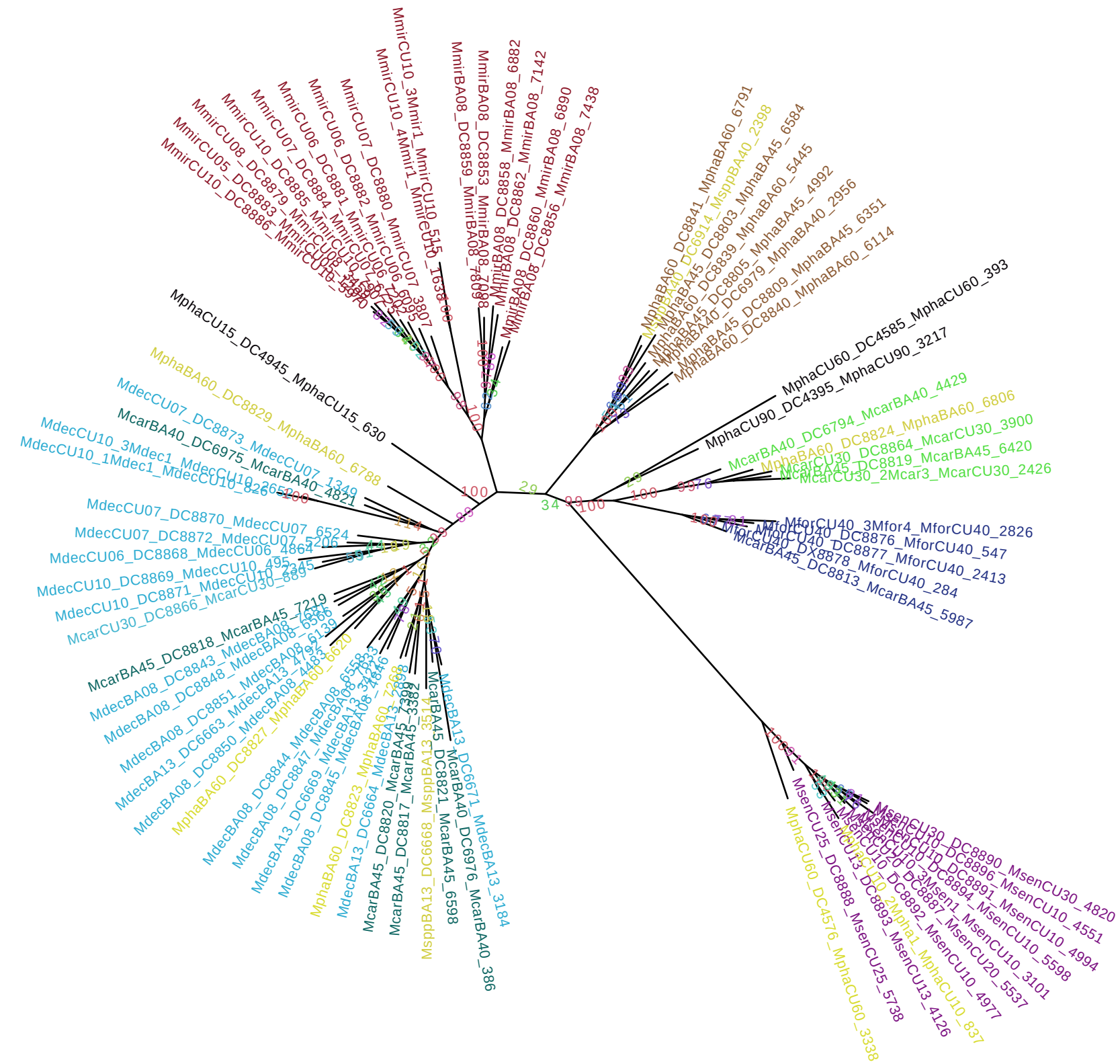


Figure S2a



0.0060

Figure S2b



0.0040

Figure S2c

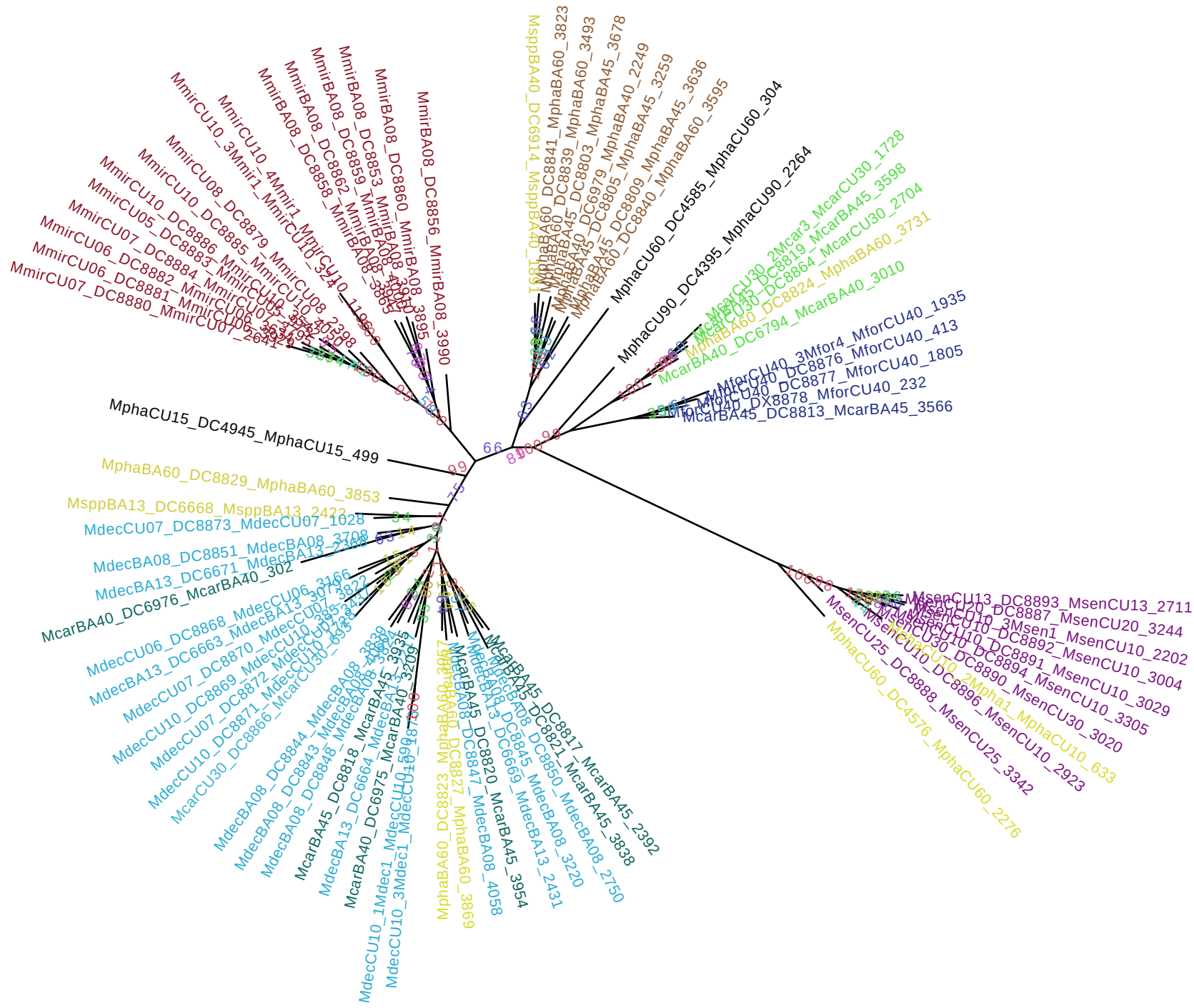


Figure S3a

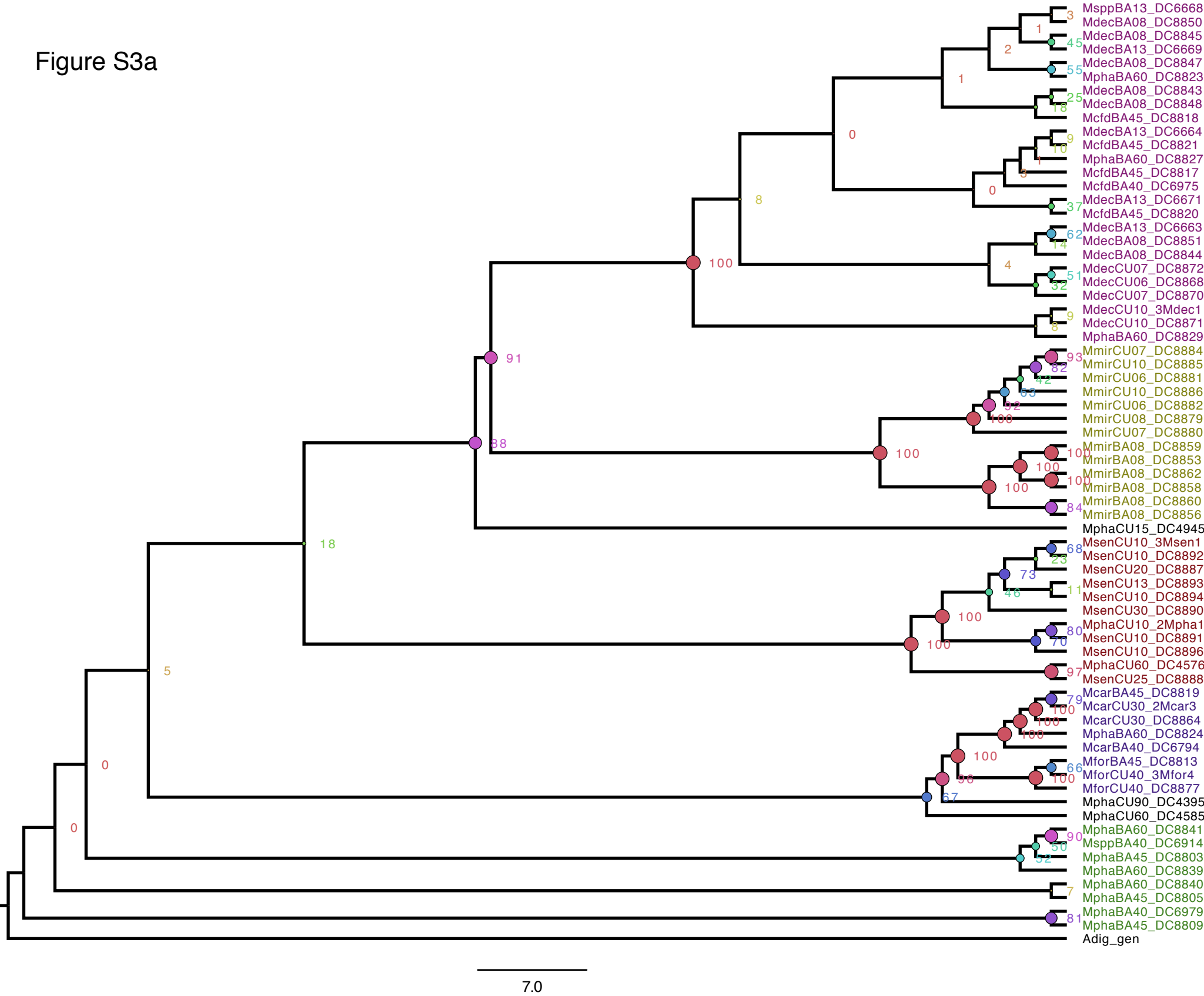


Figure S3b

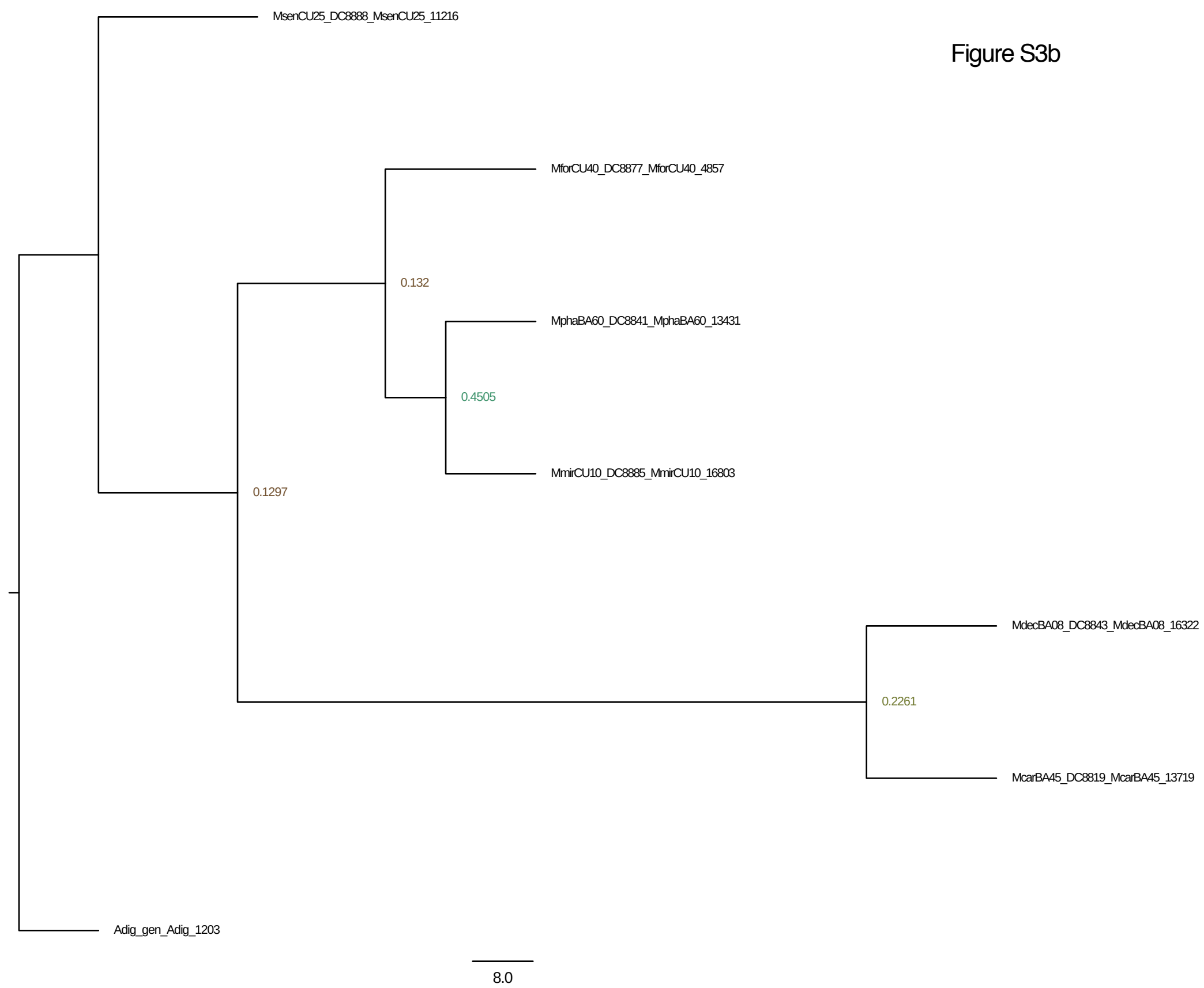


Figure S4

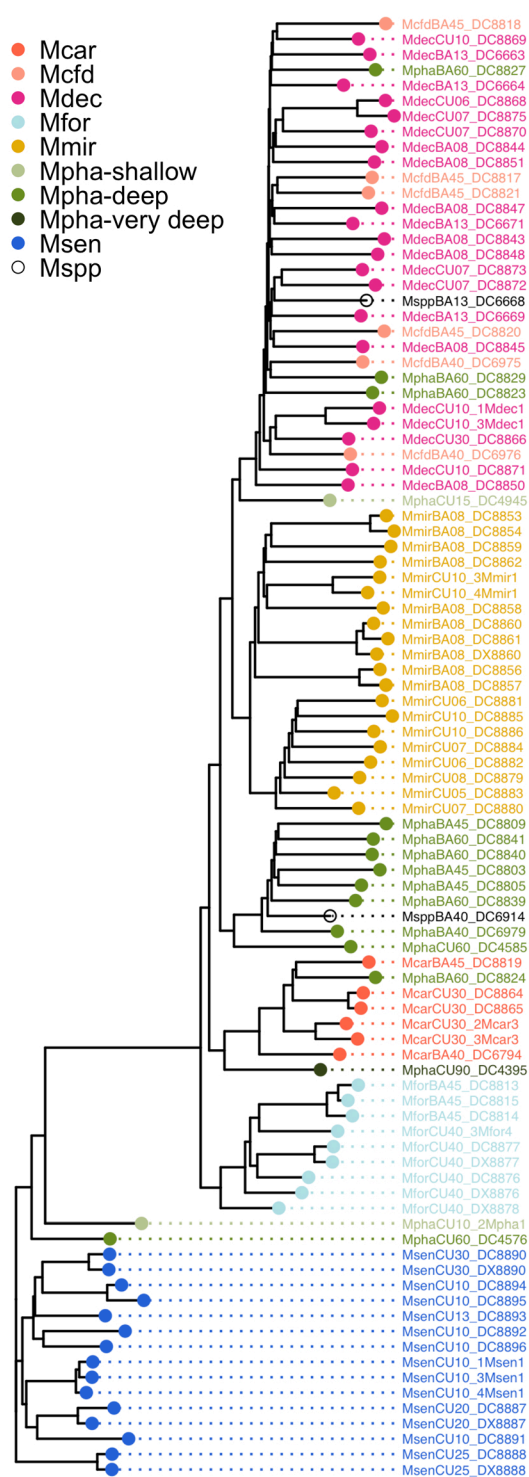
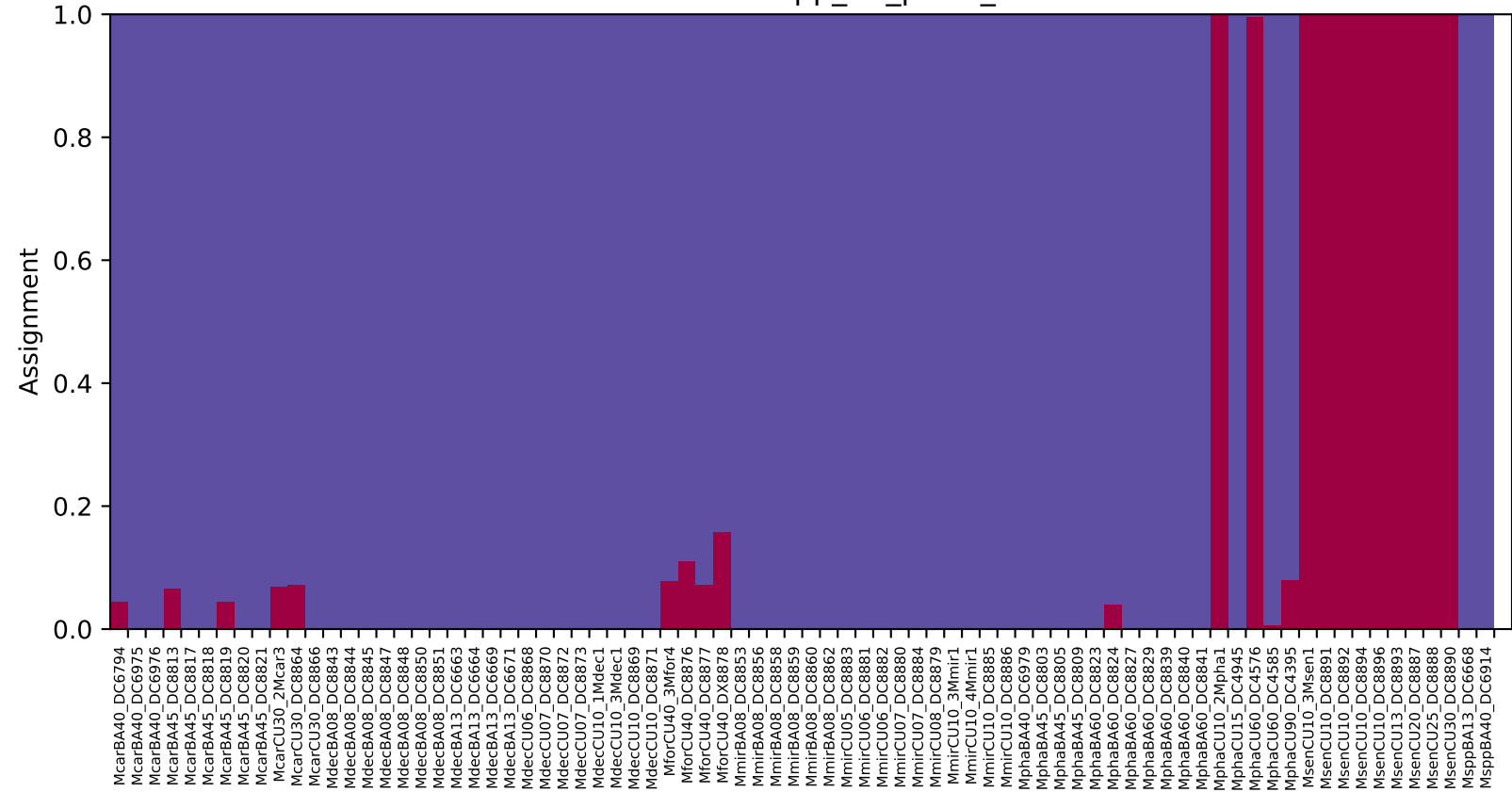
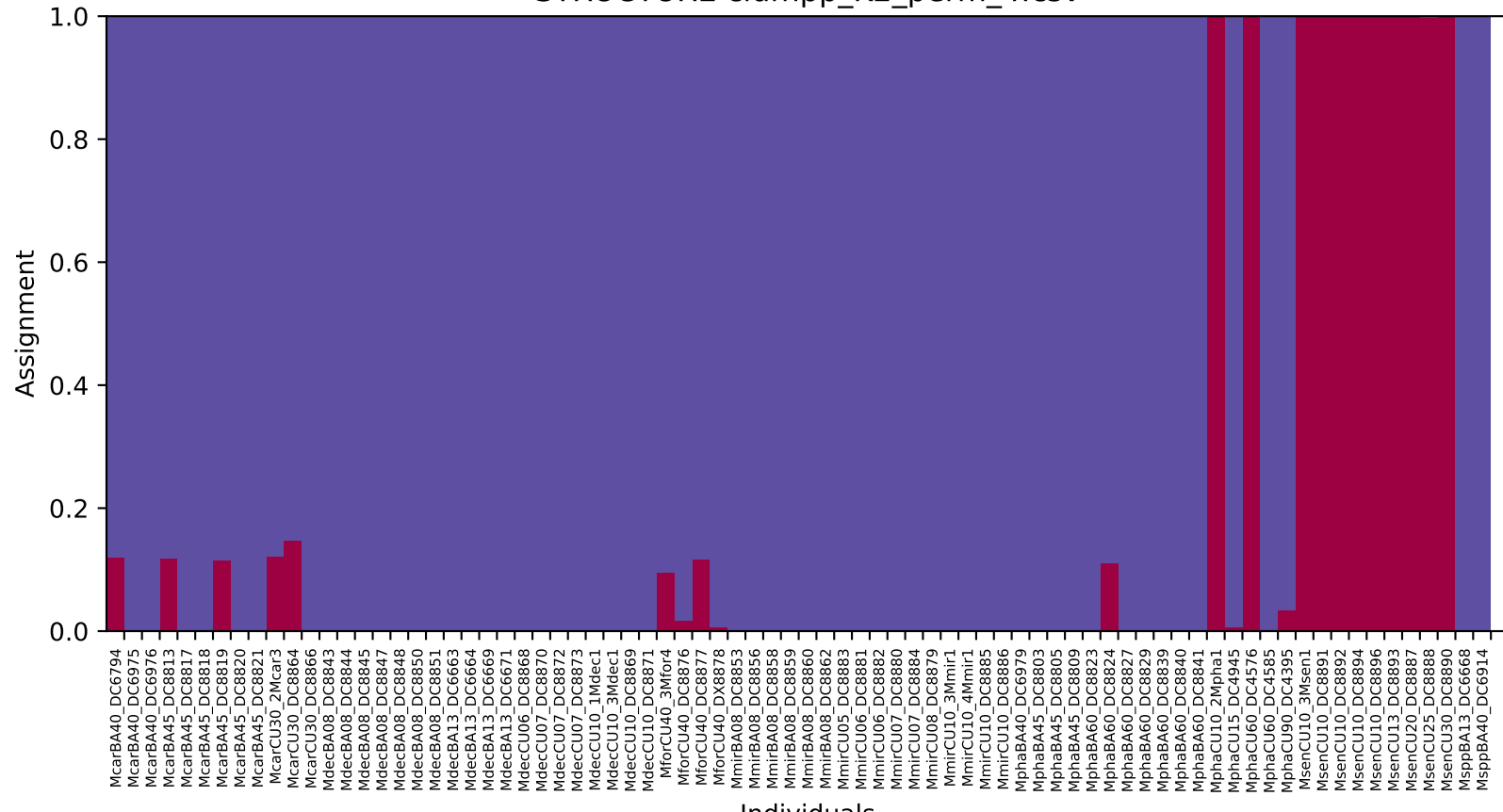


Figure S5a

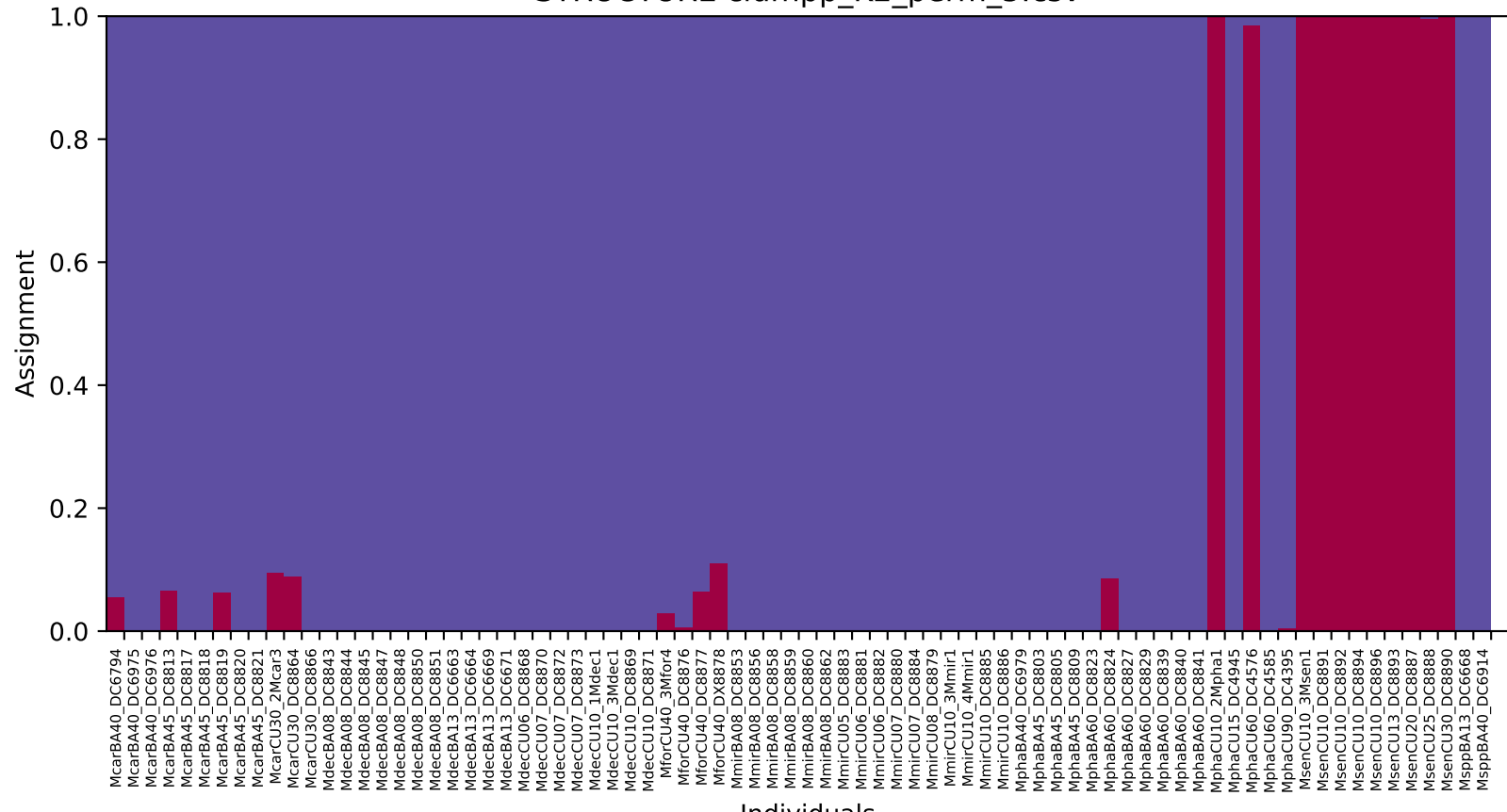
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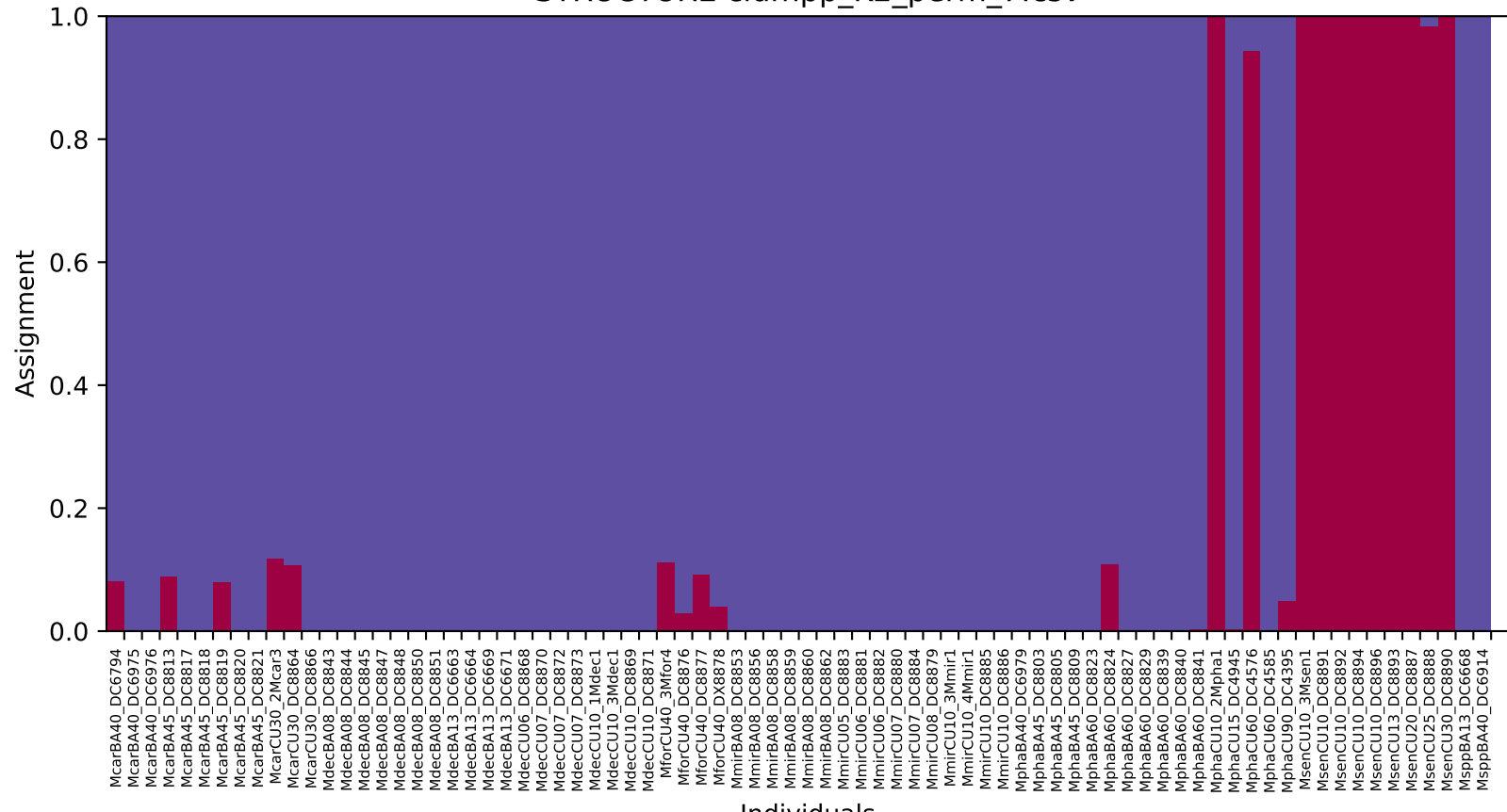
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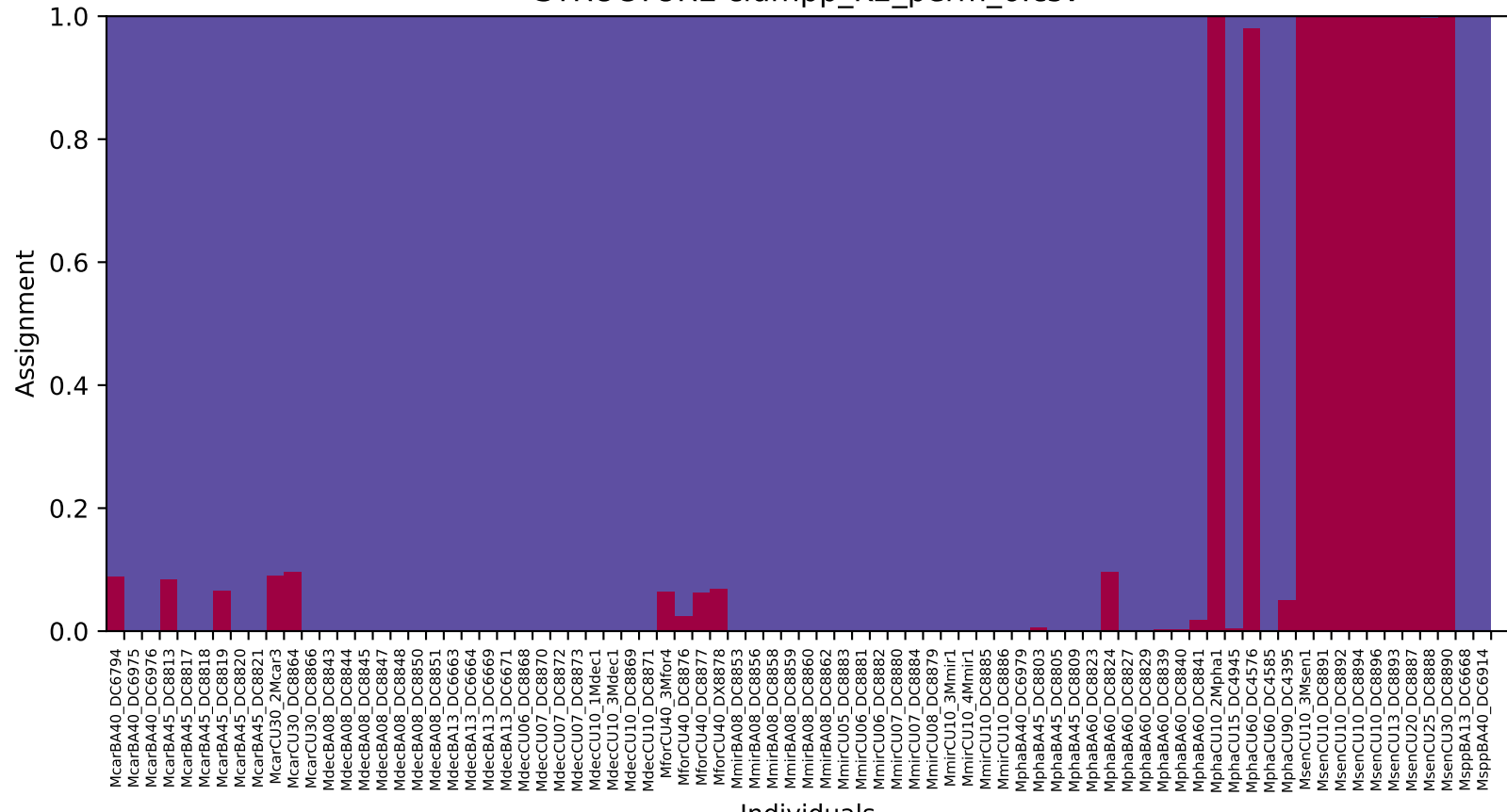
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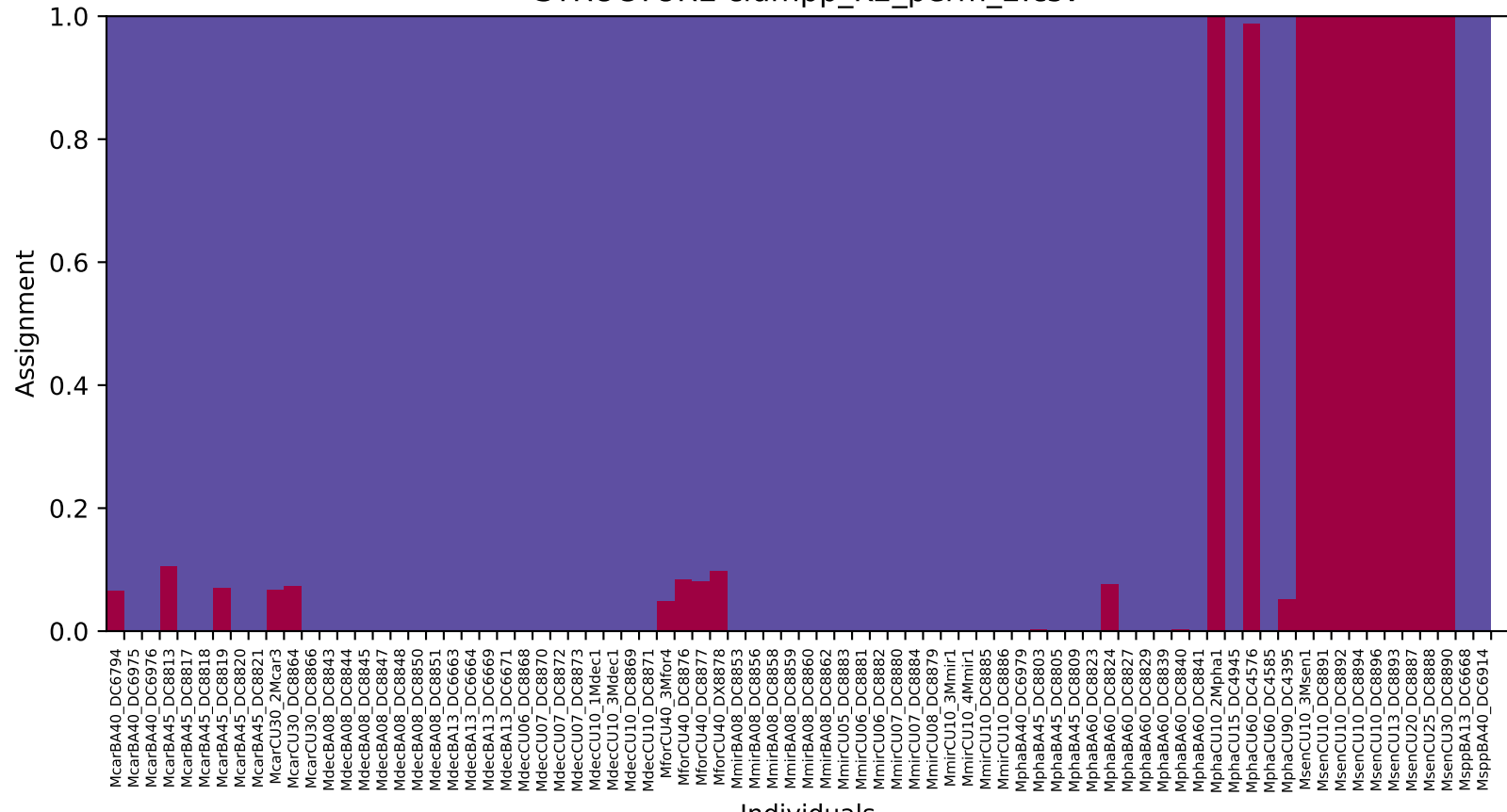
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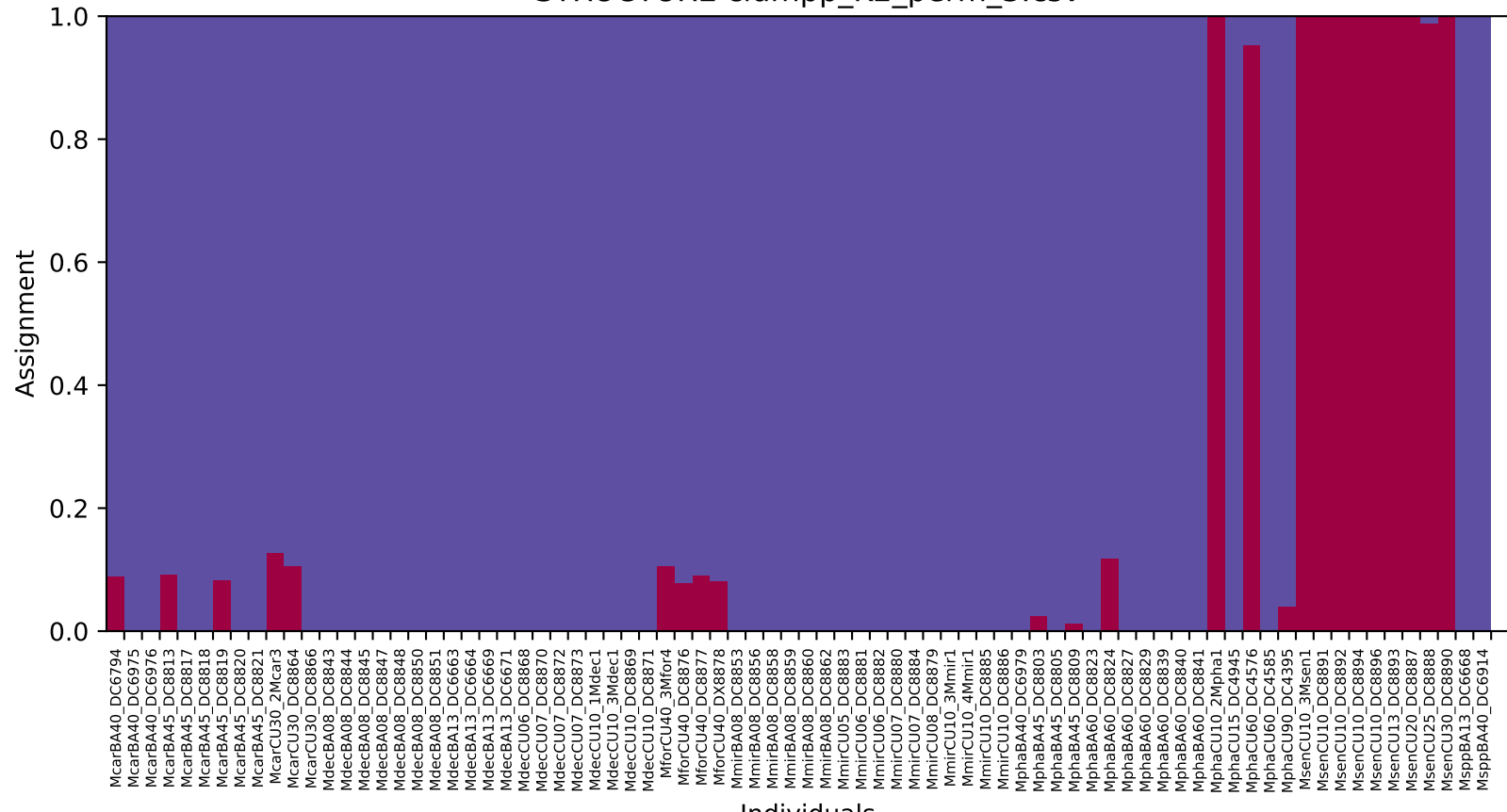
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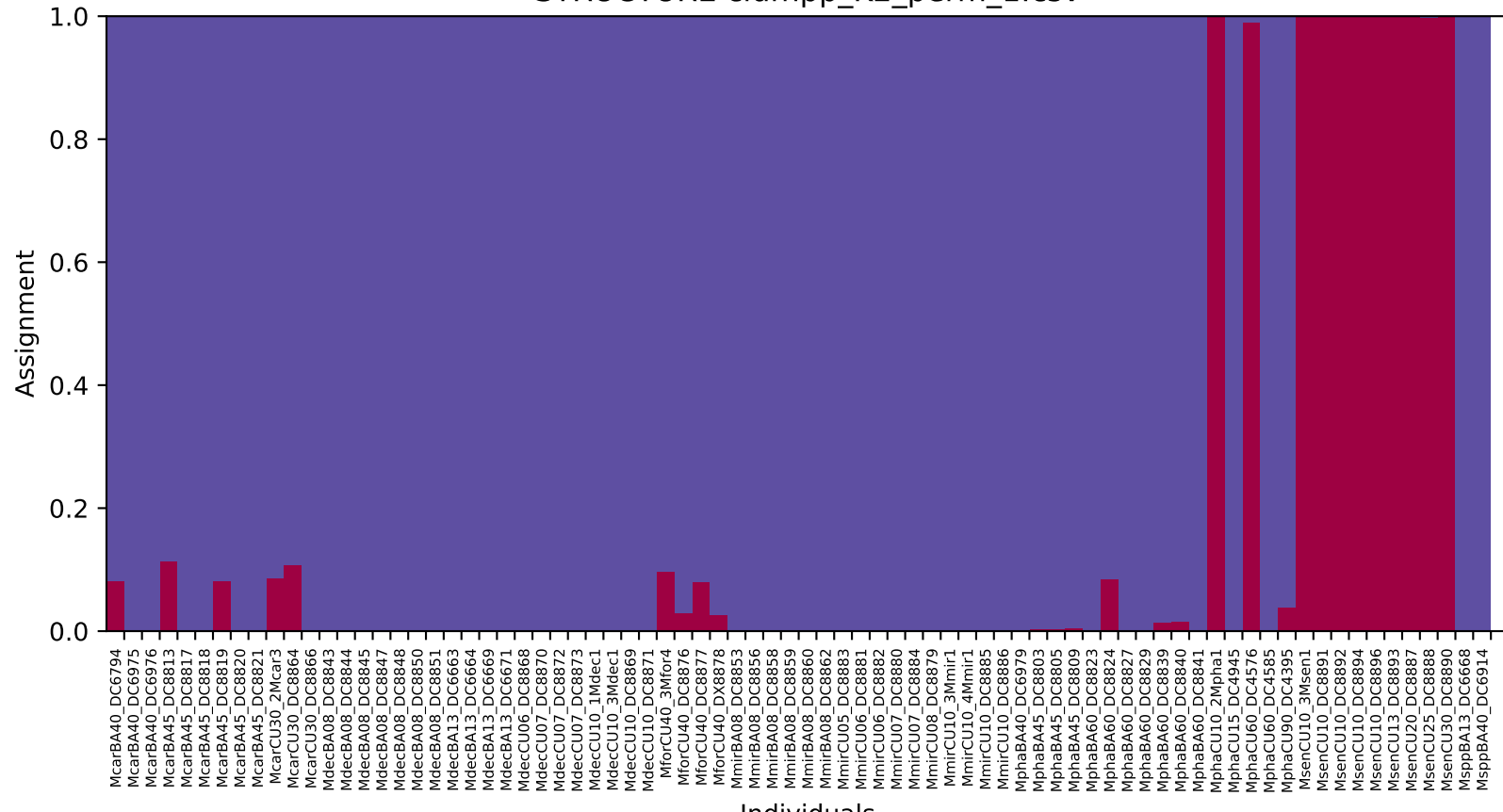
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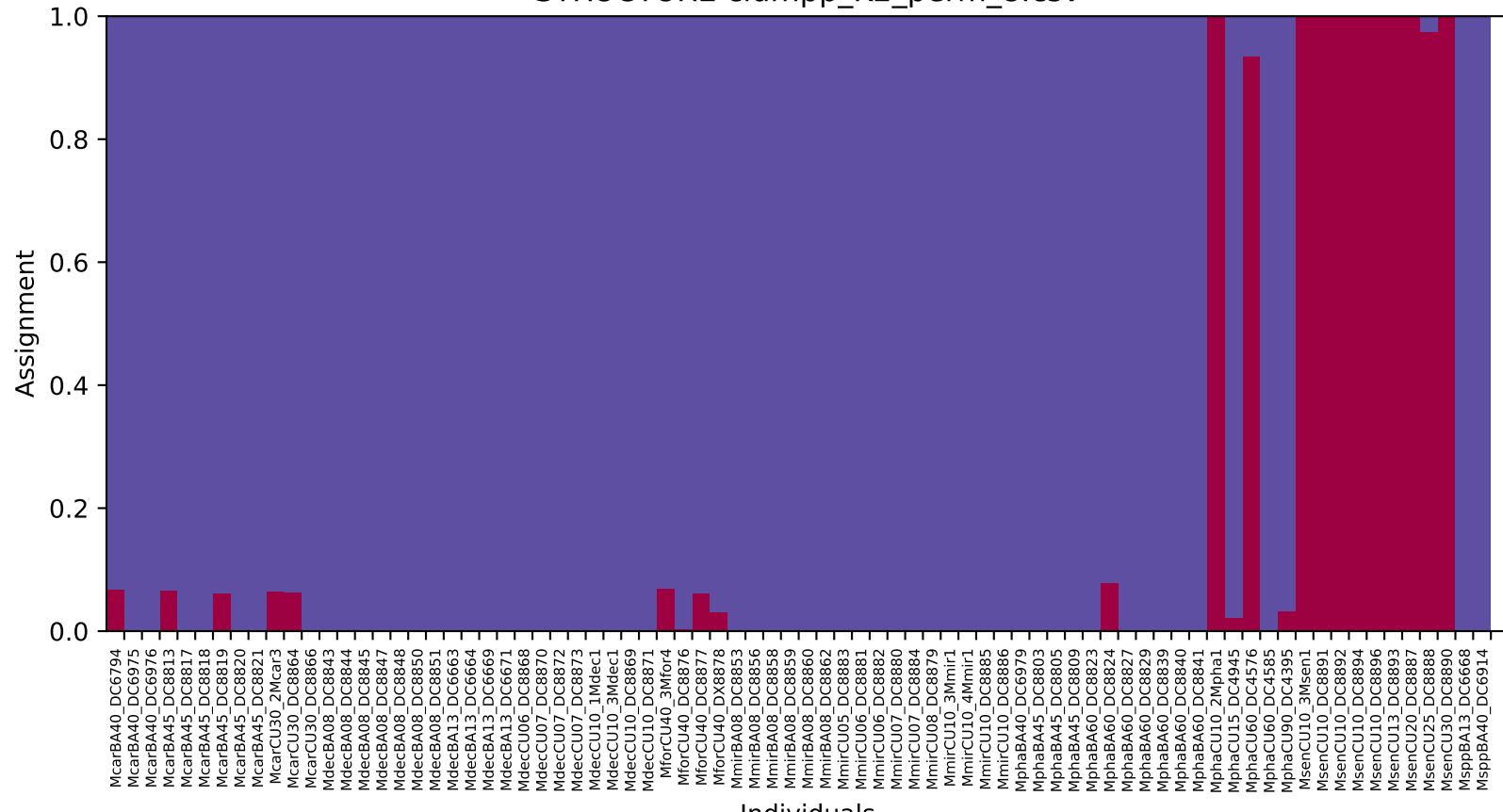
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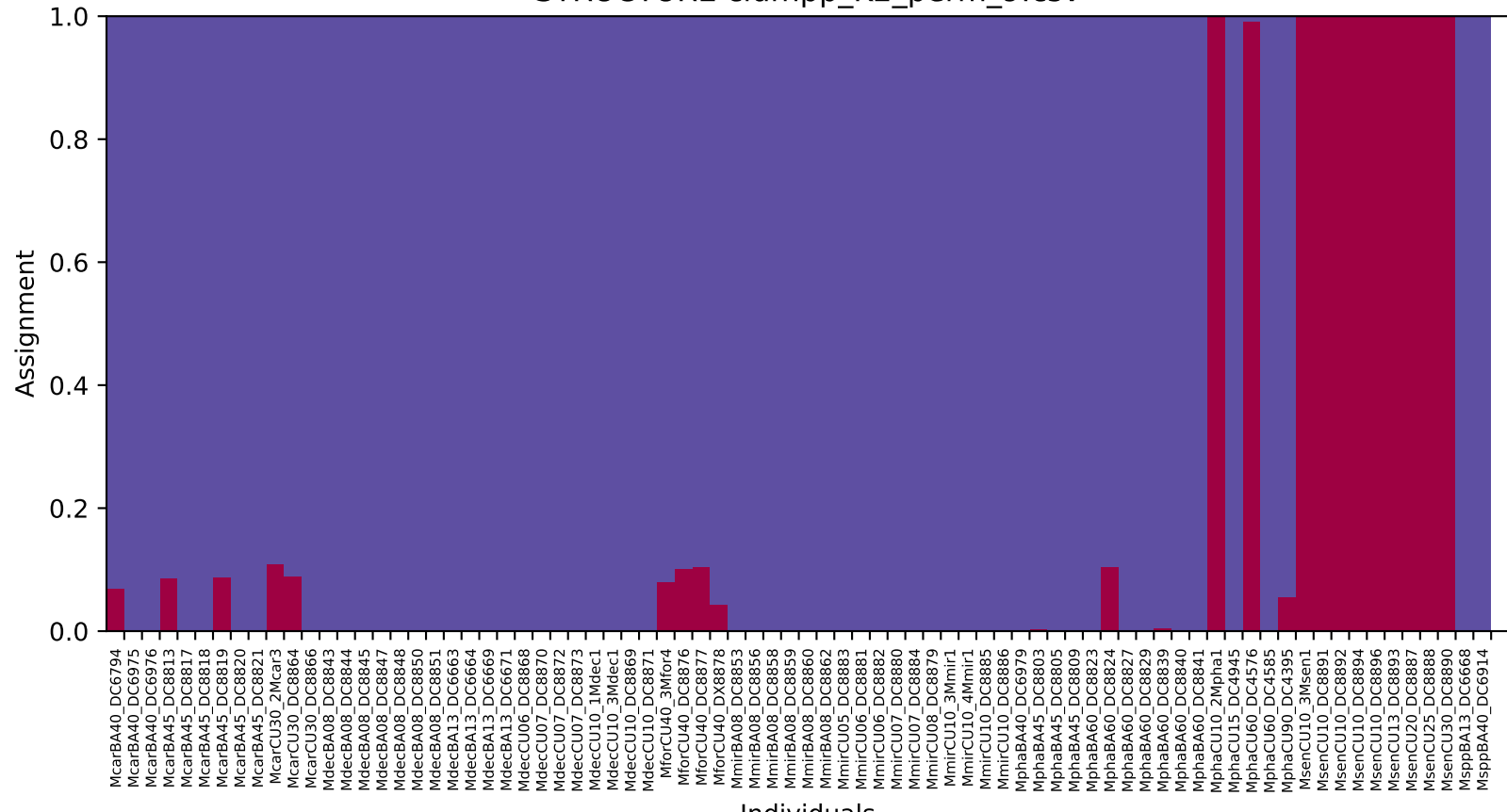
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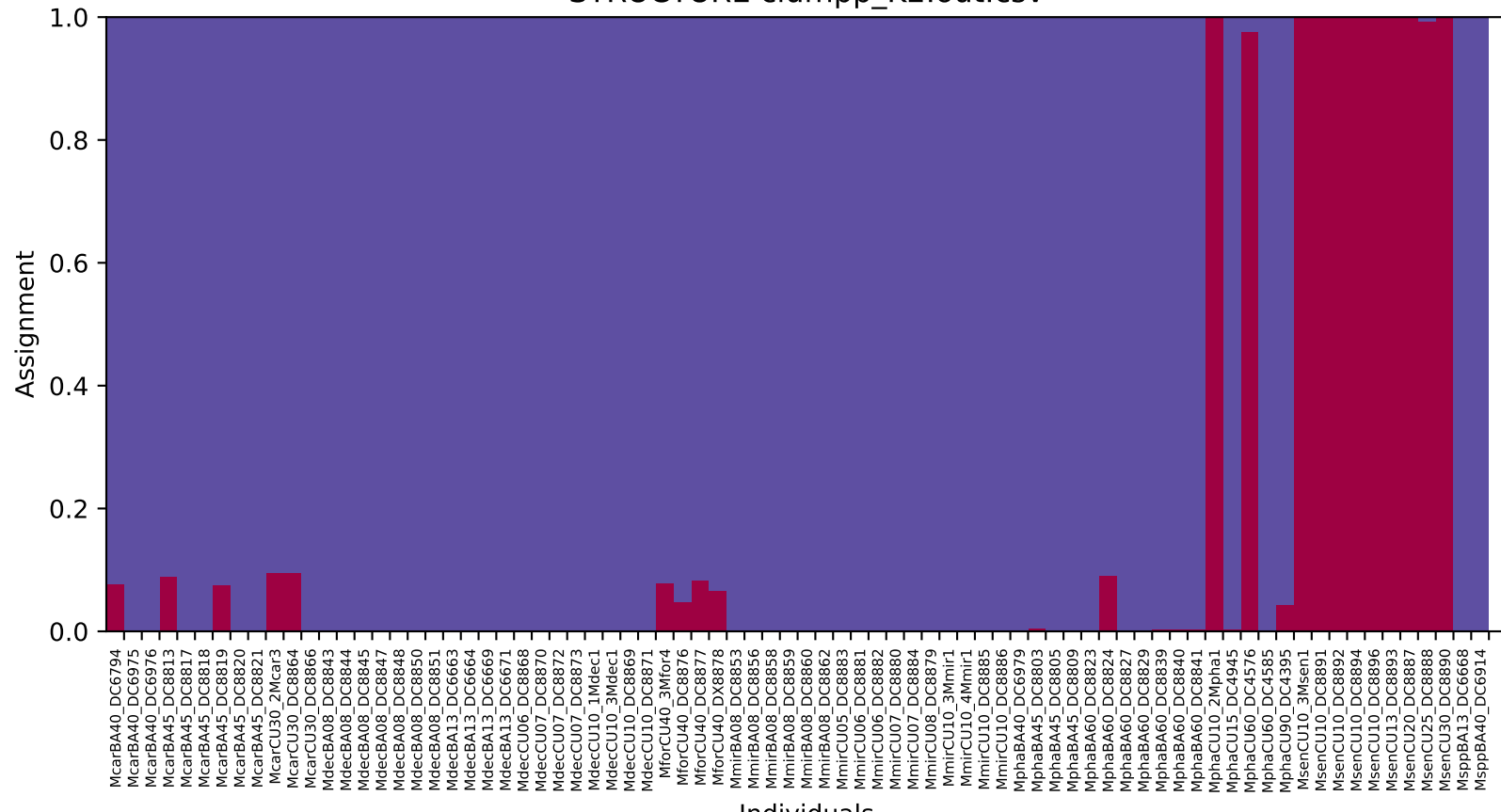
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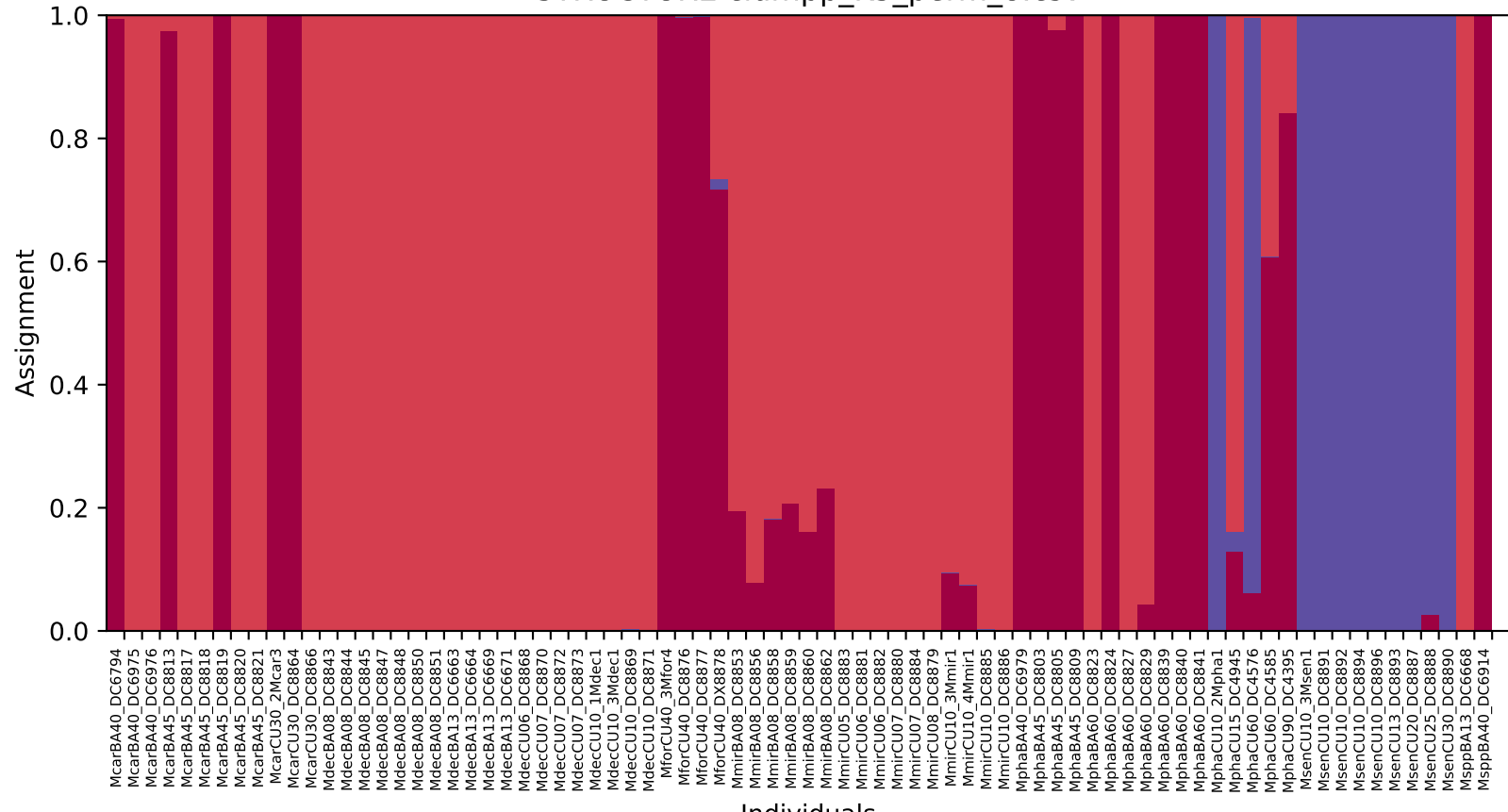
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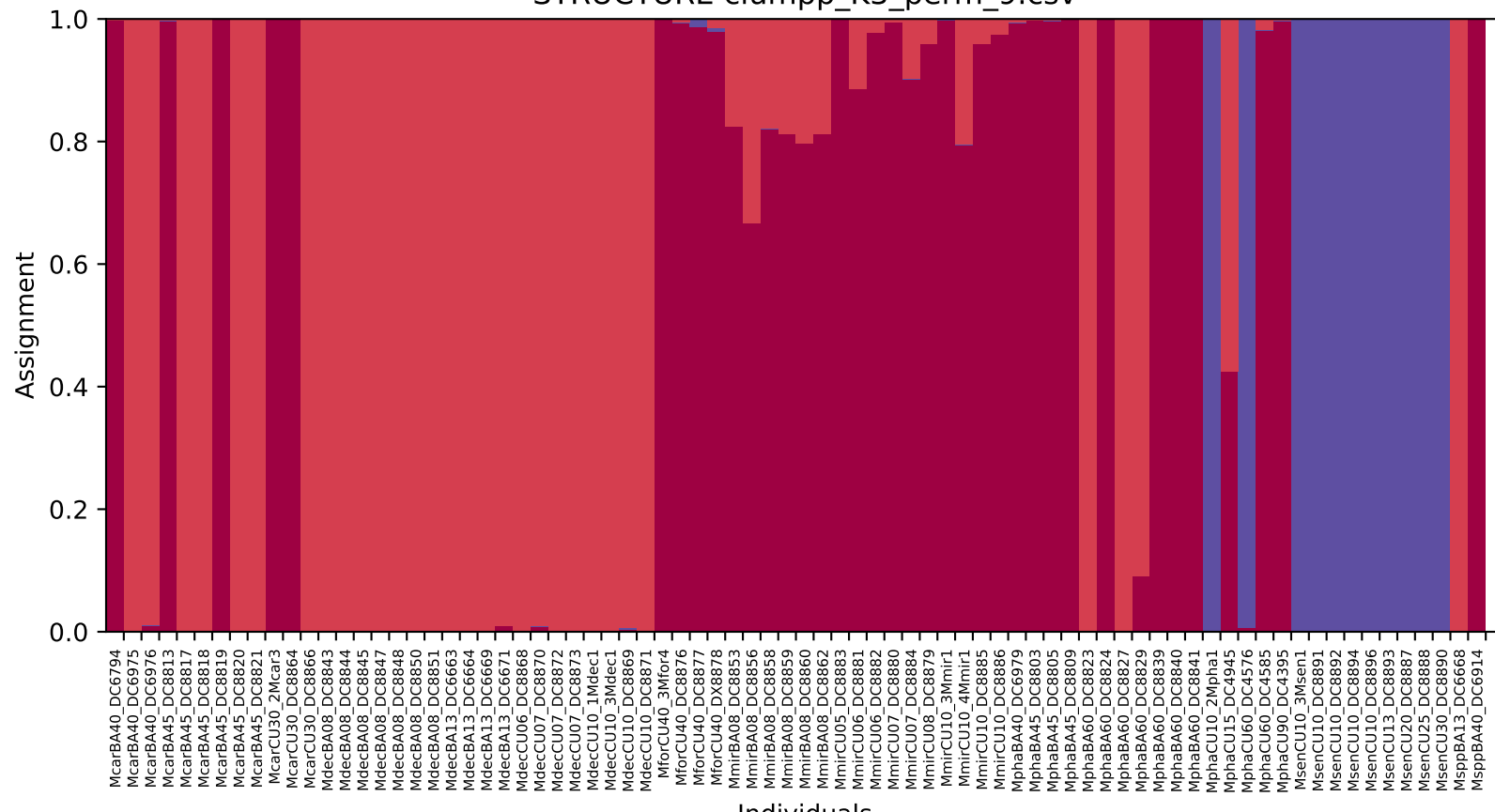
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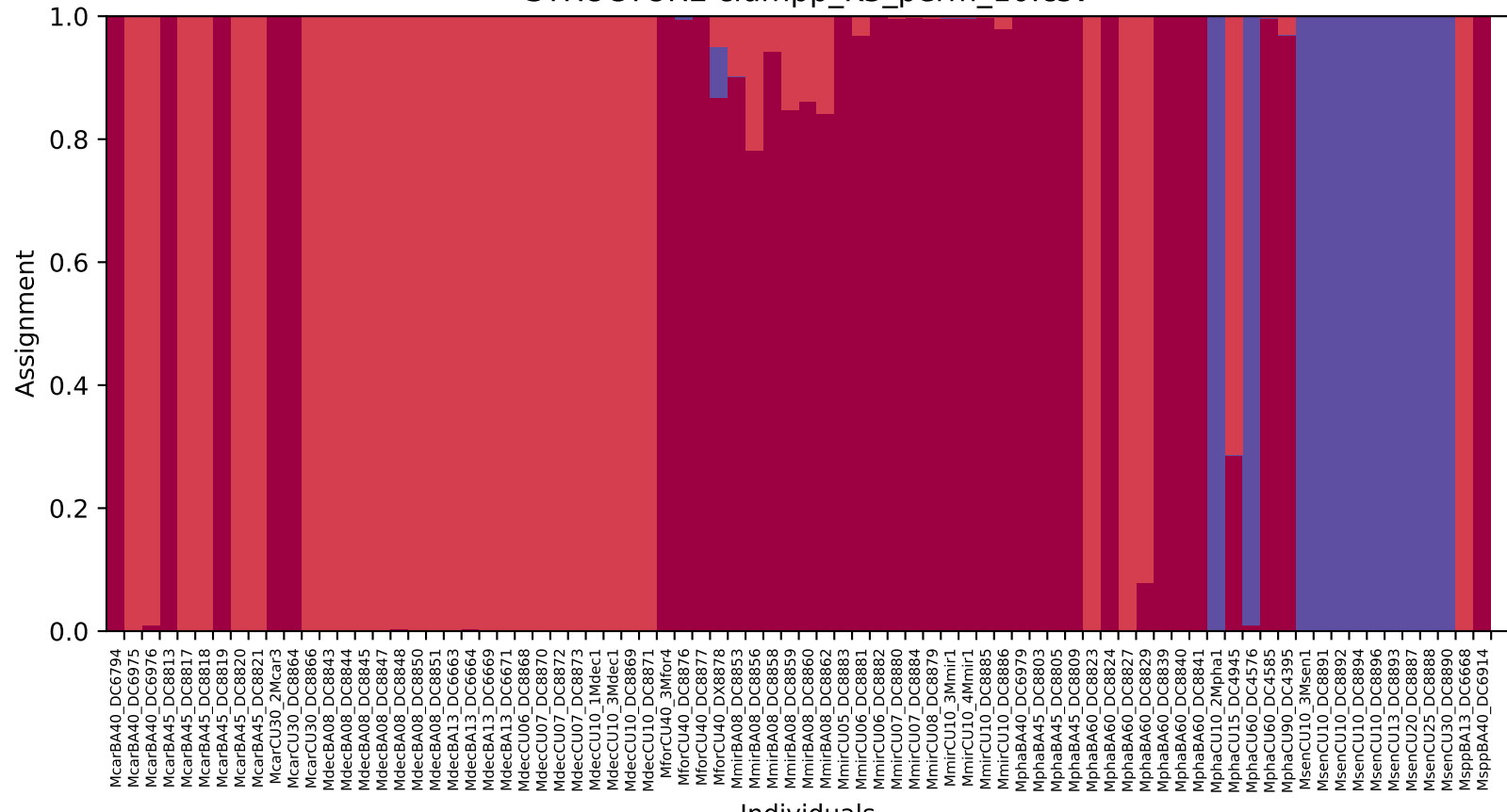
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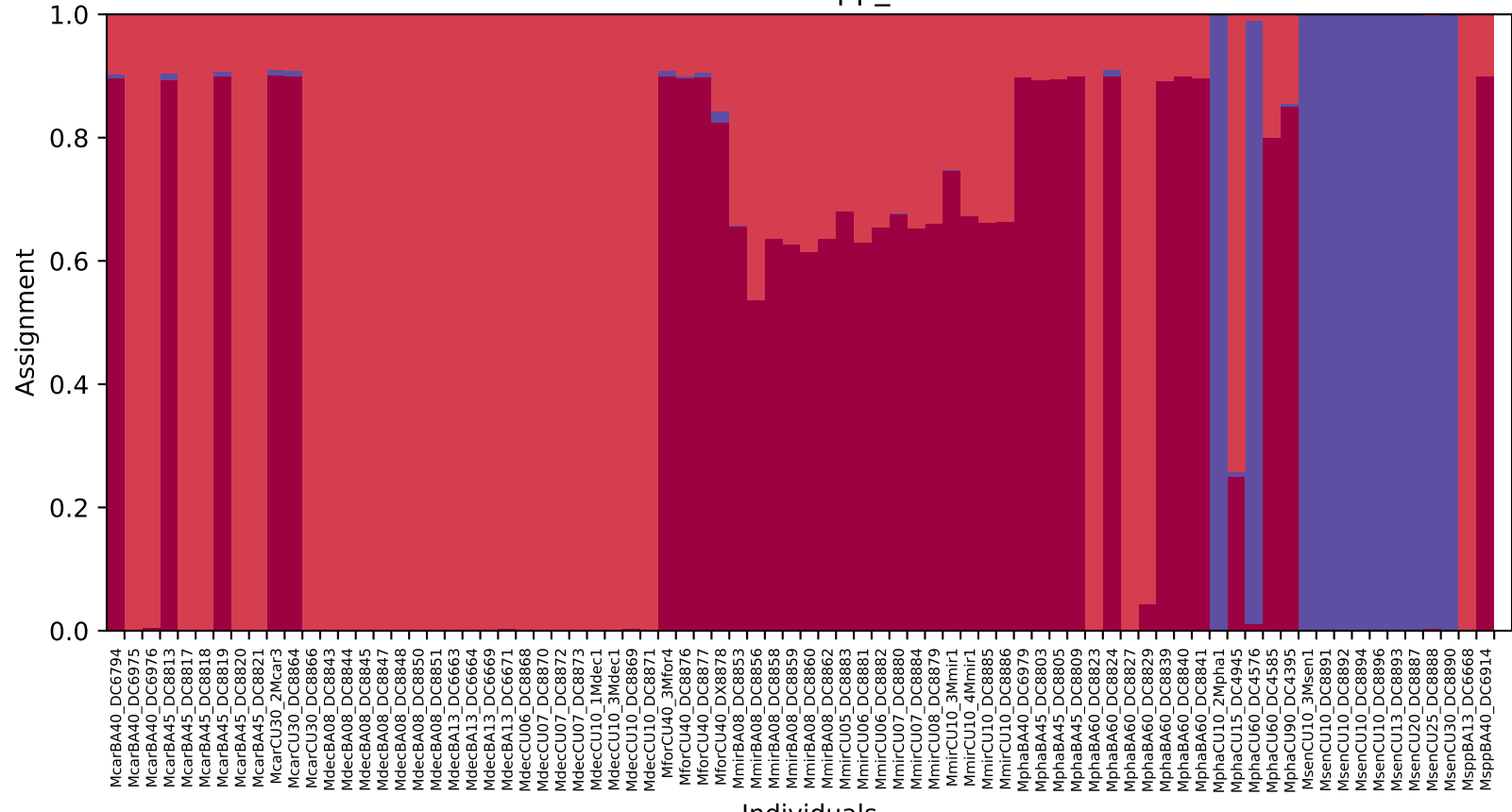
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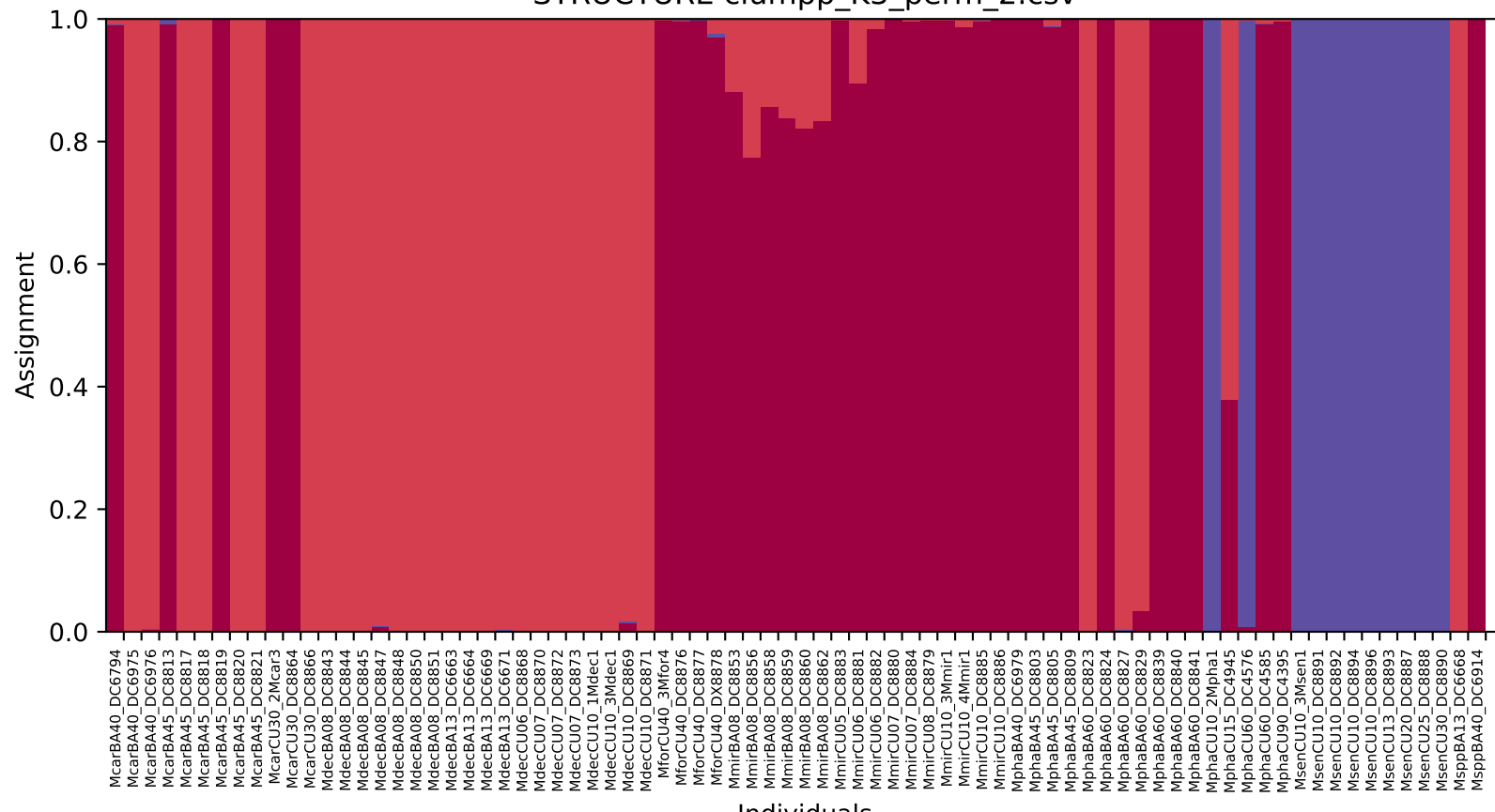
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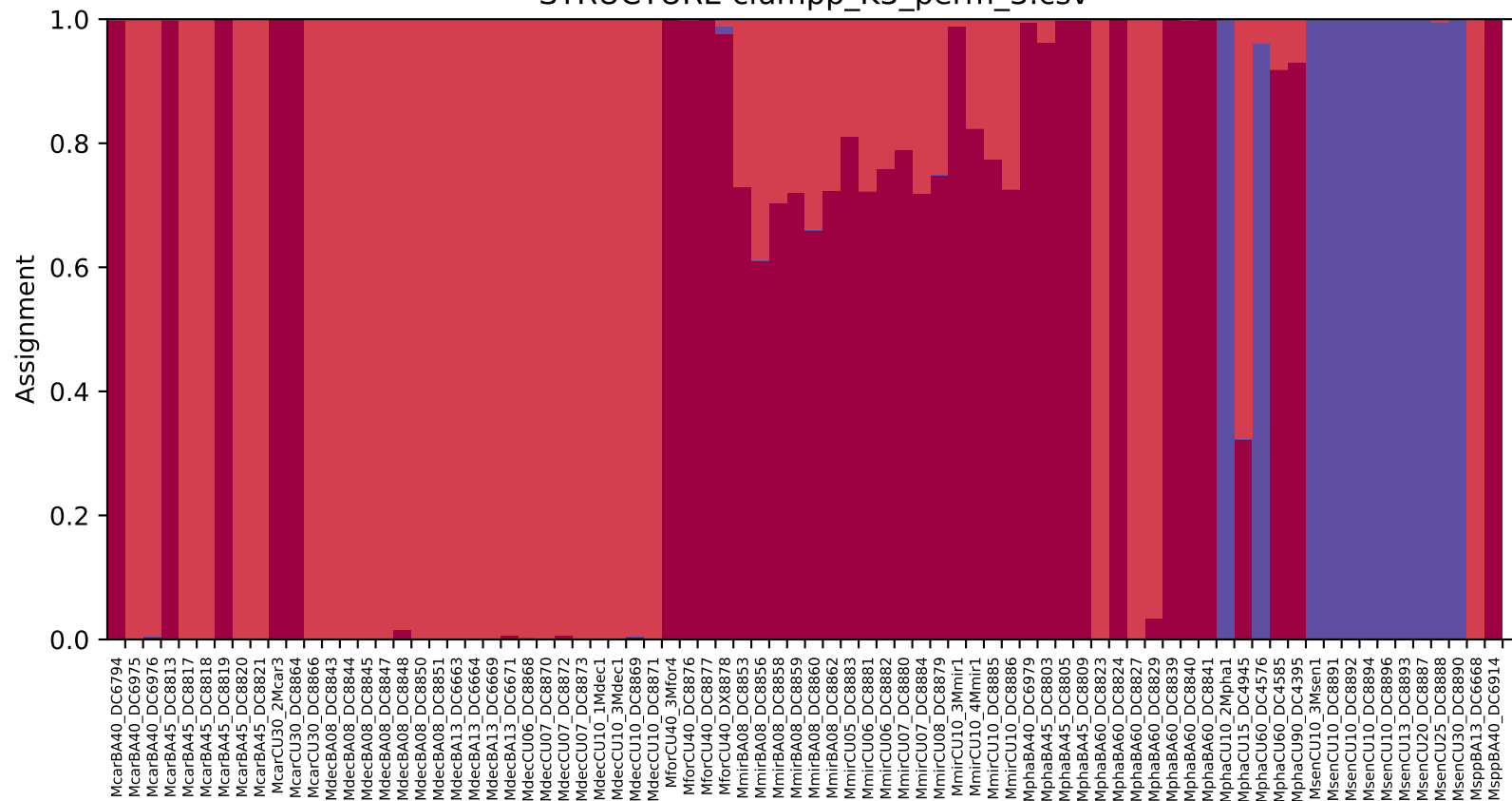
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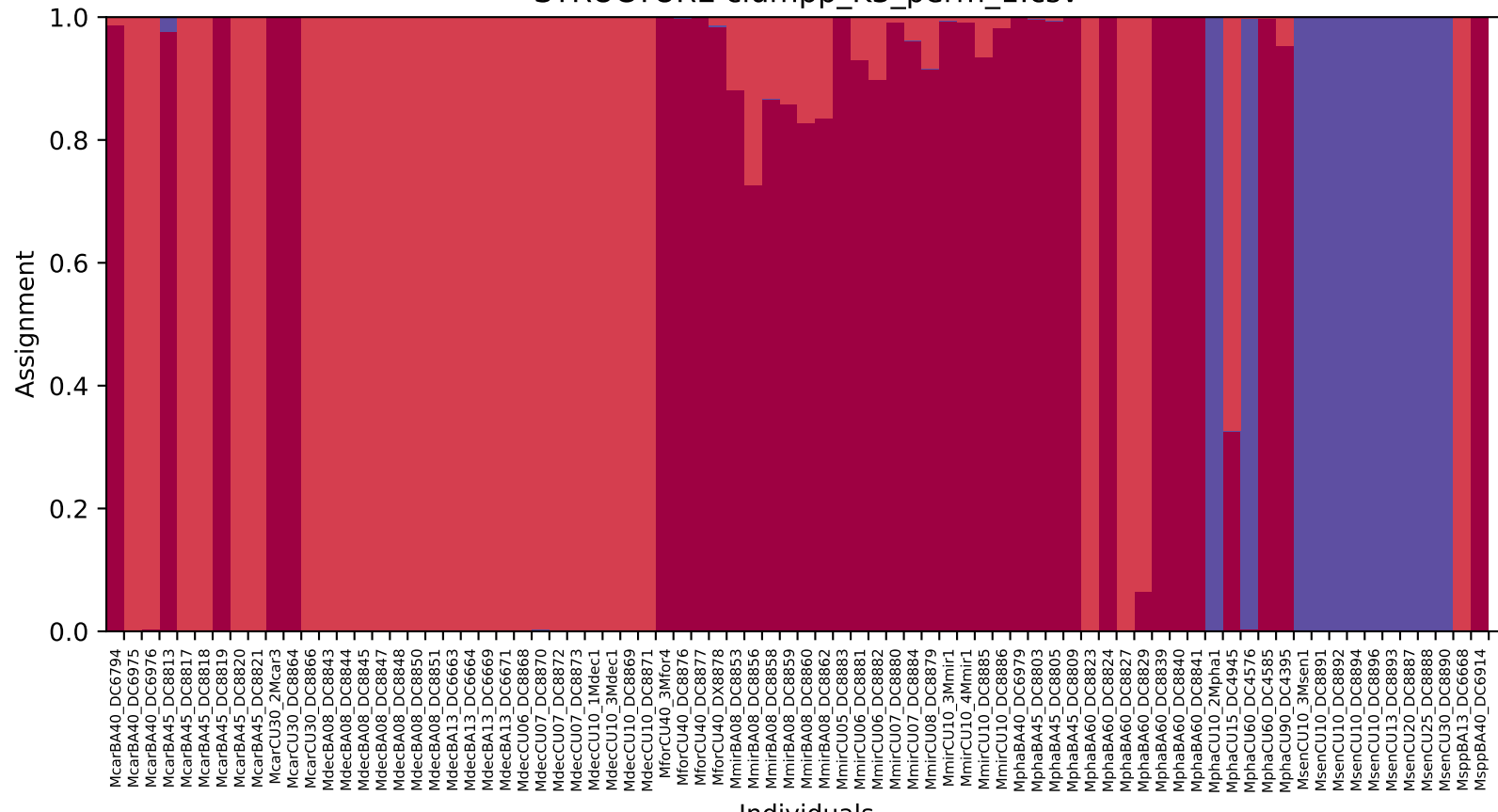
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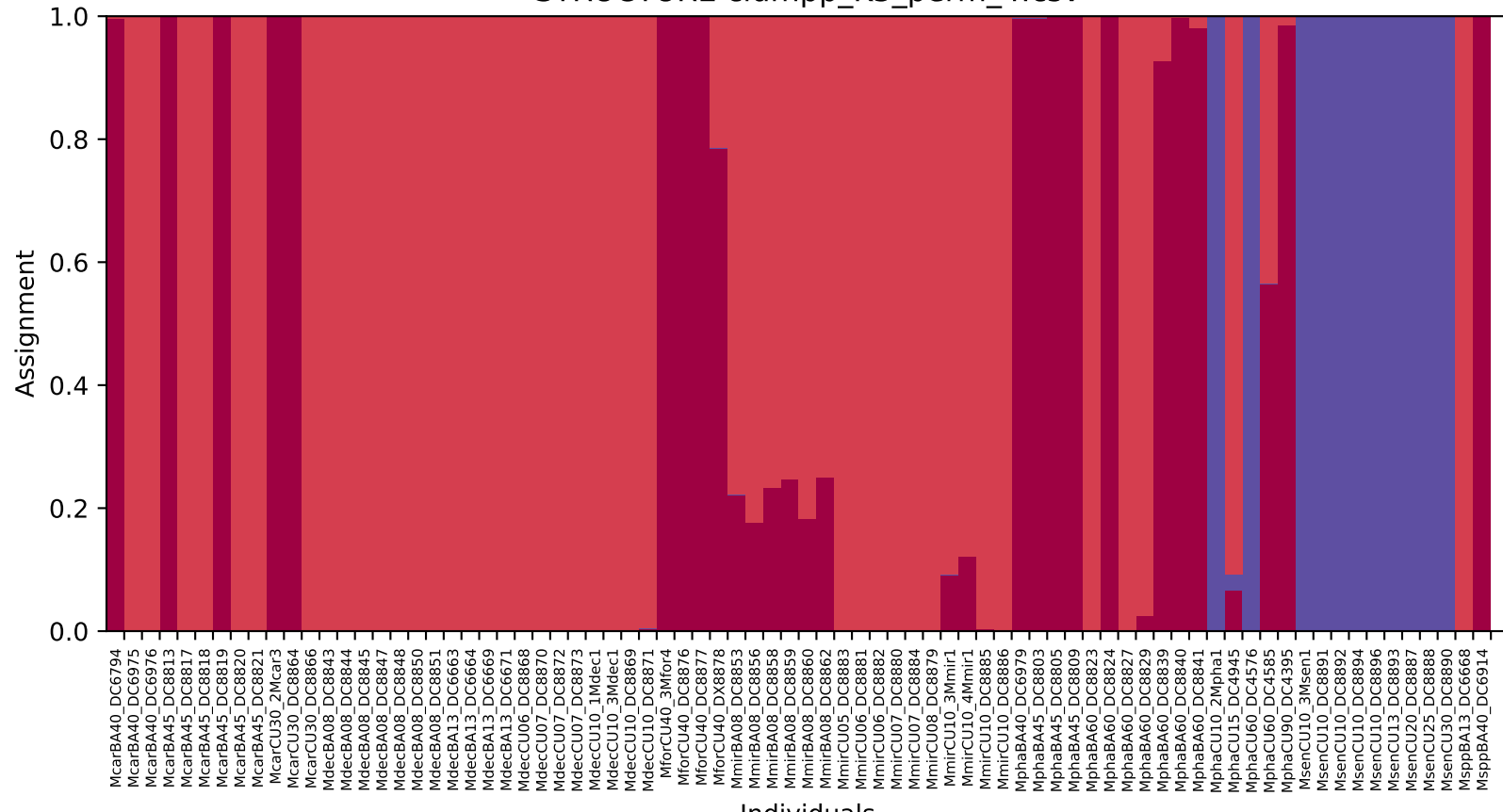
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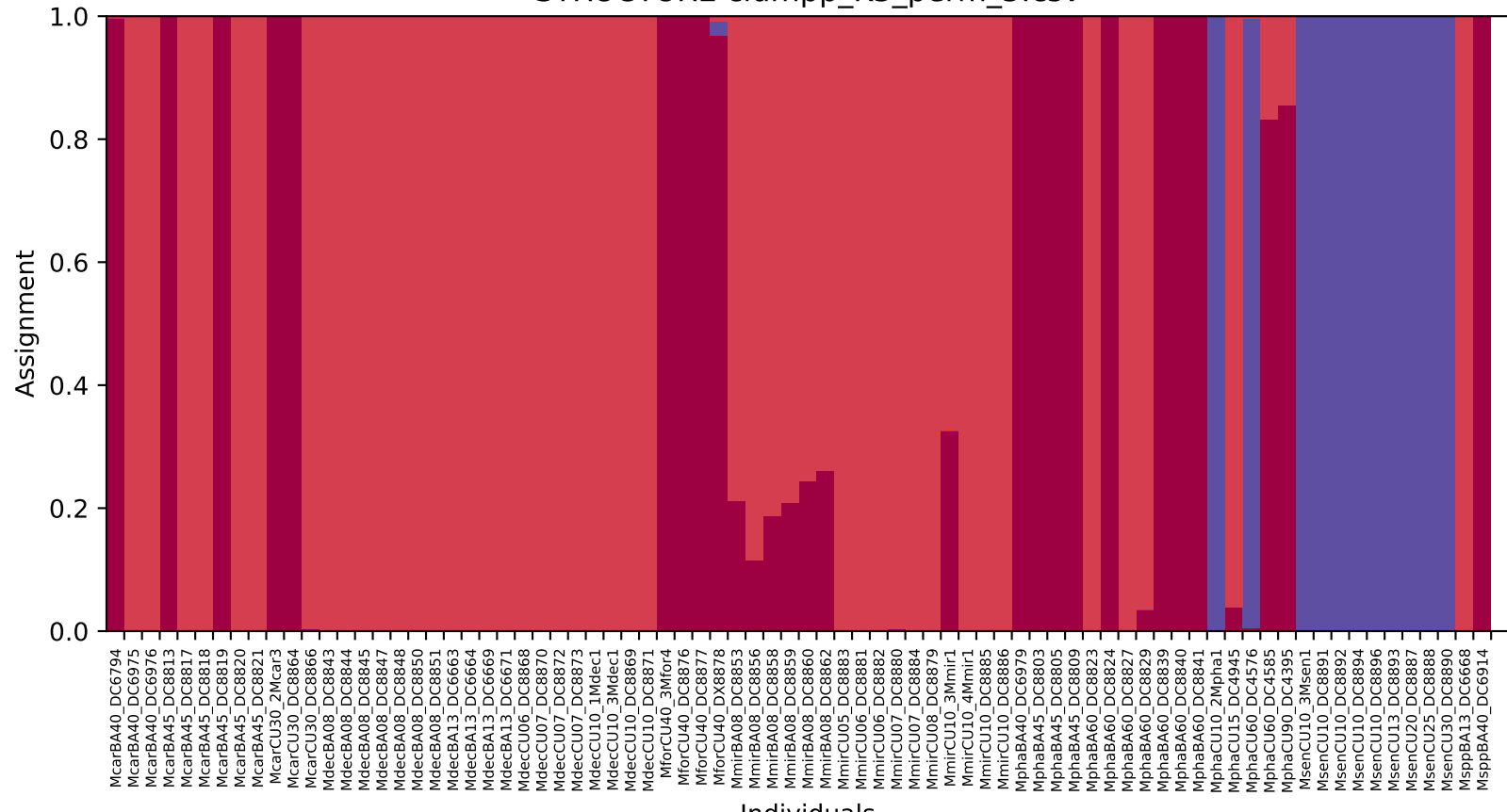
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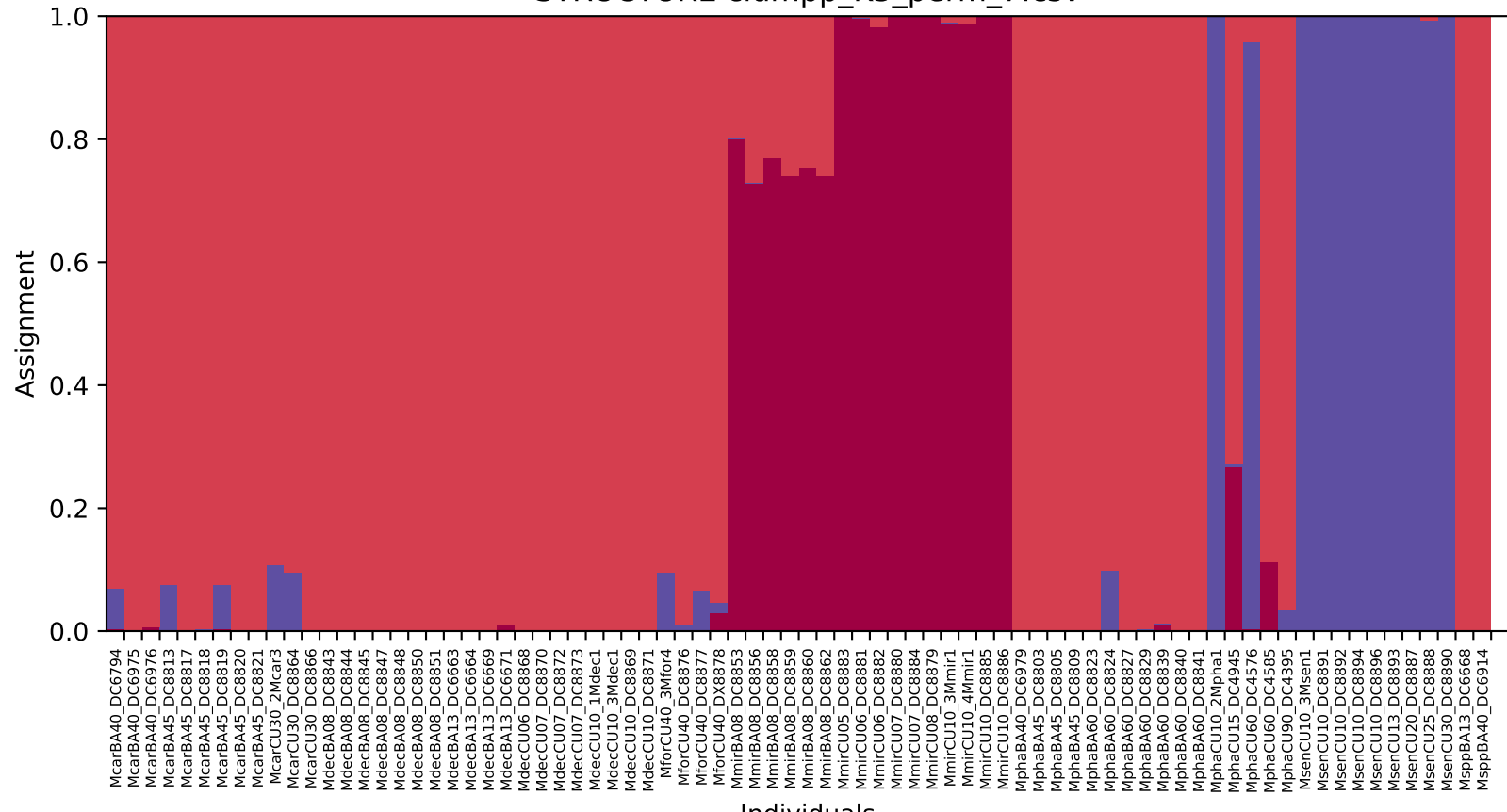
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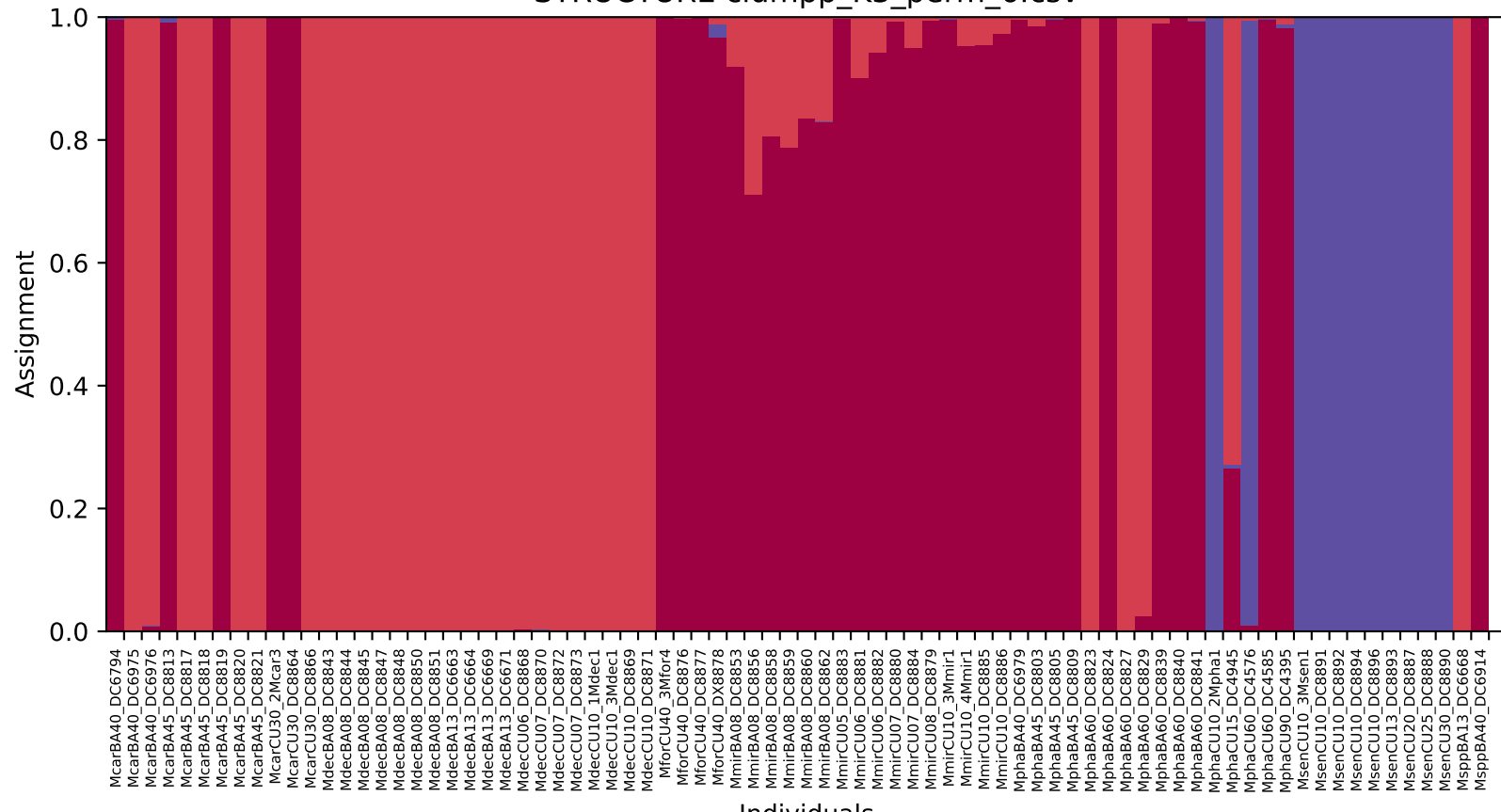
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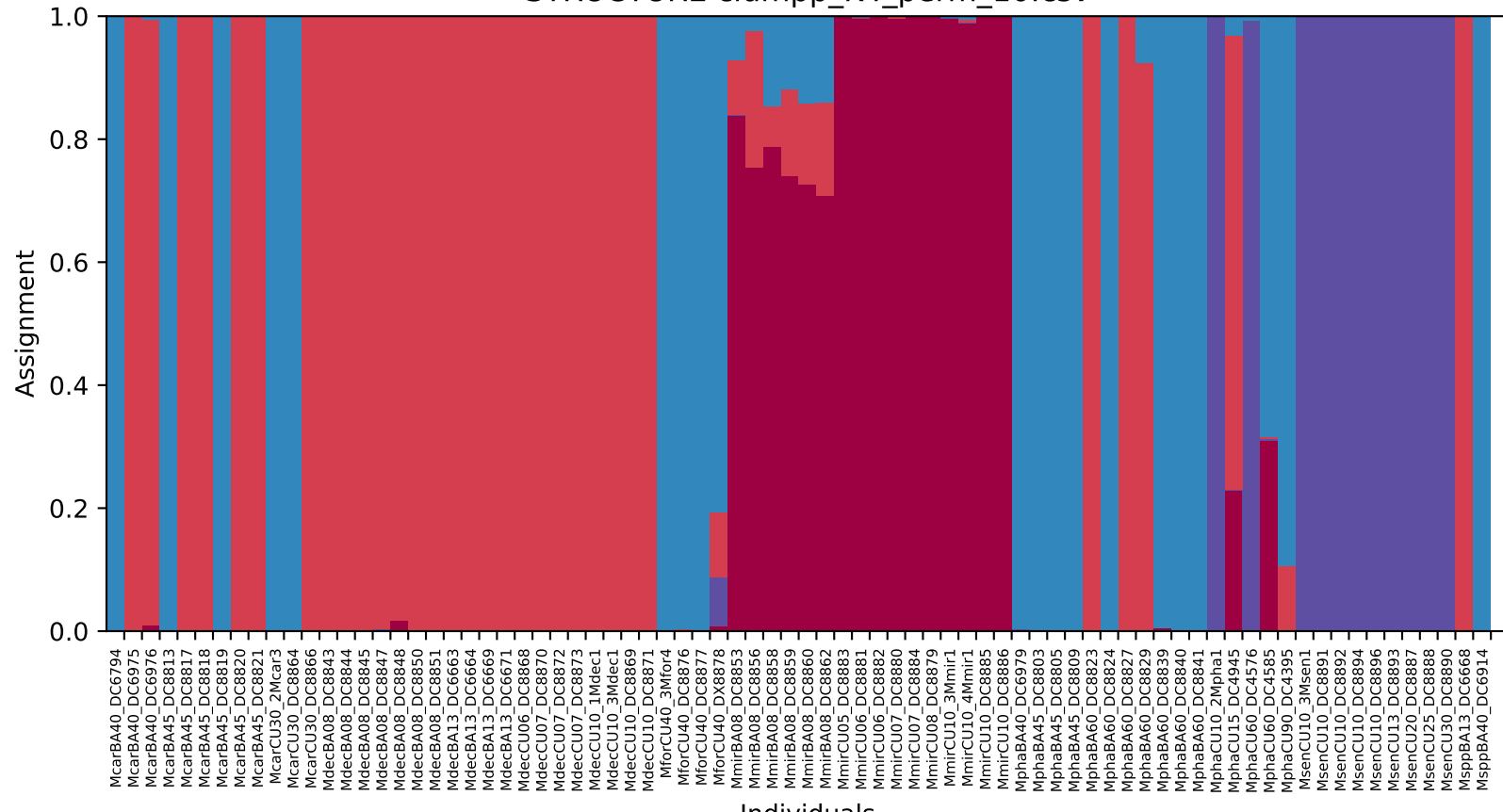
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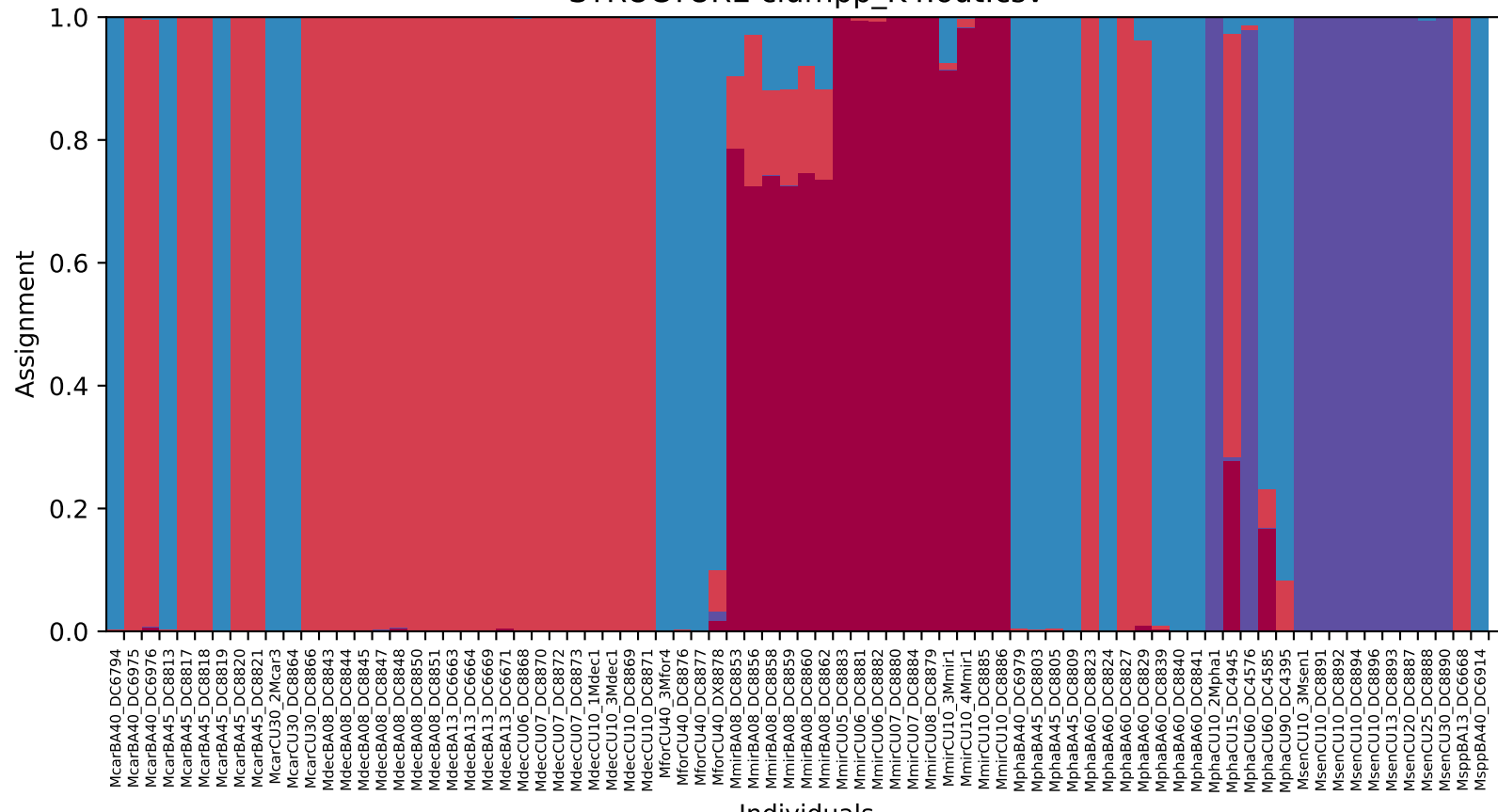
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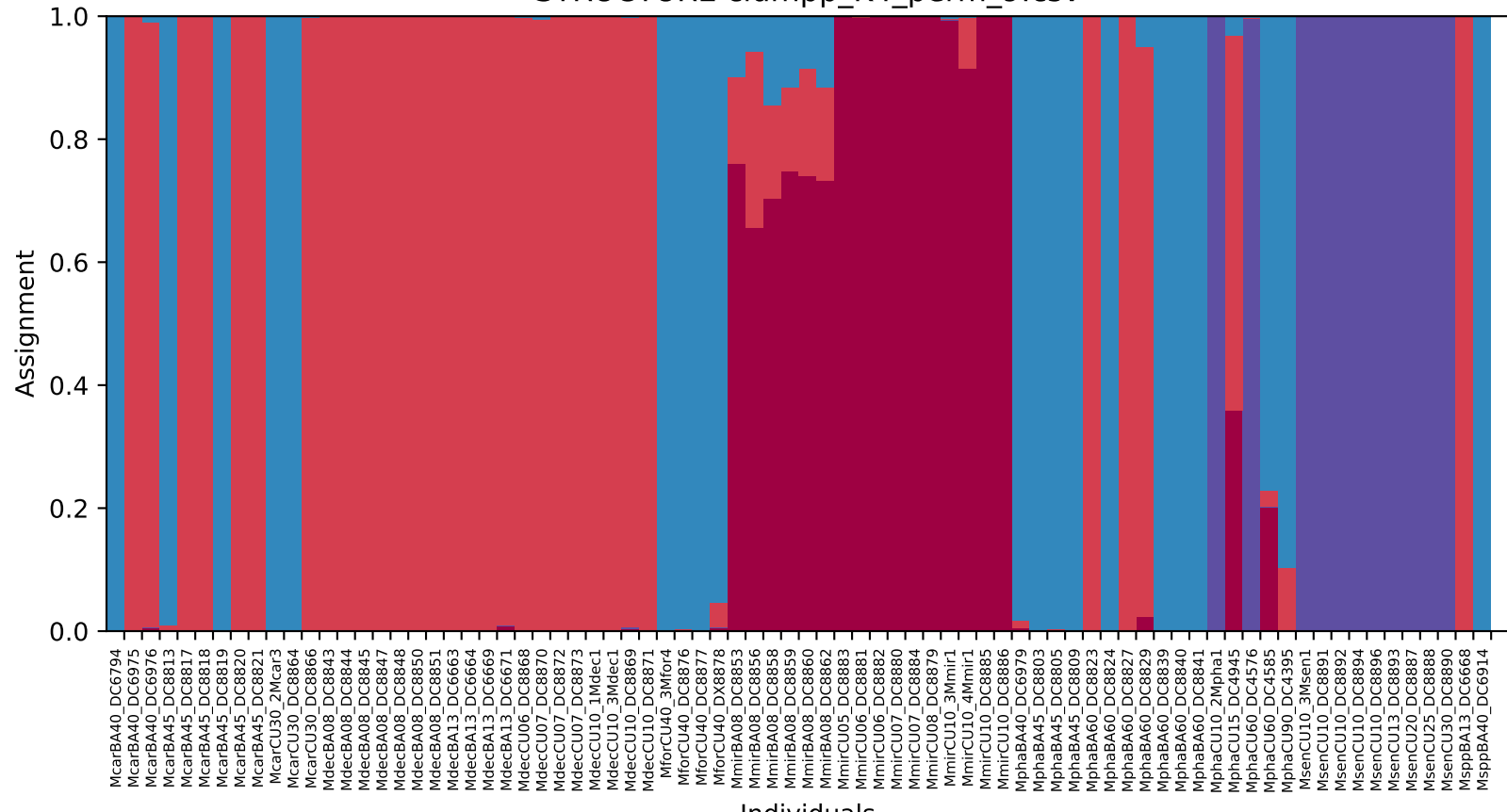
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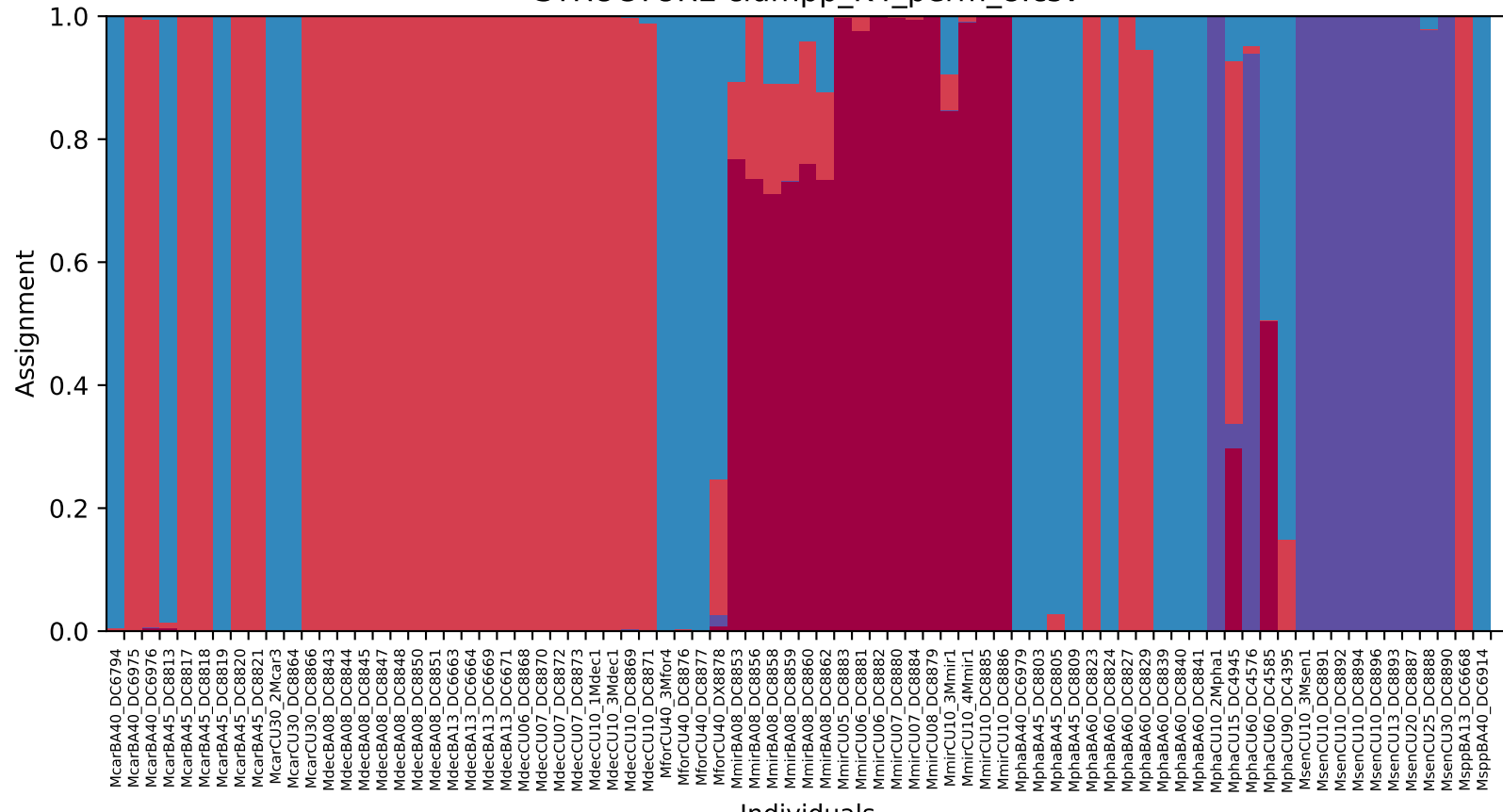
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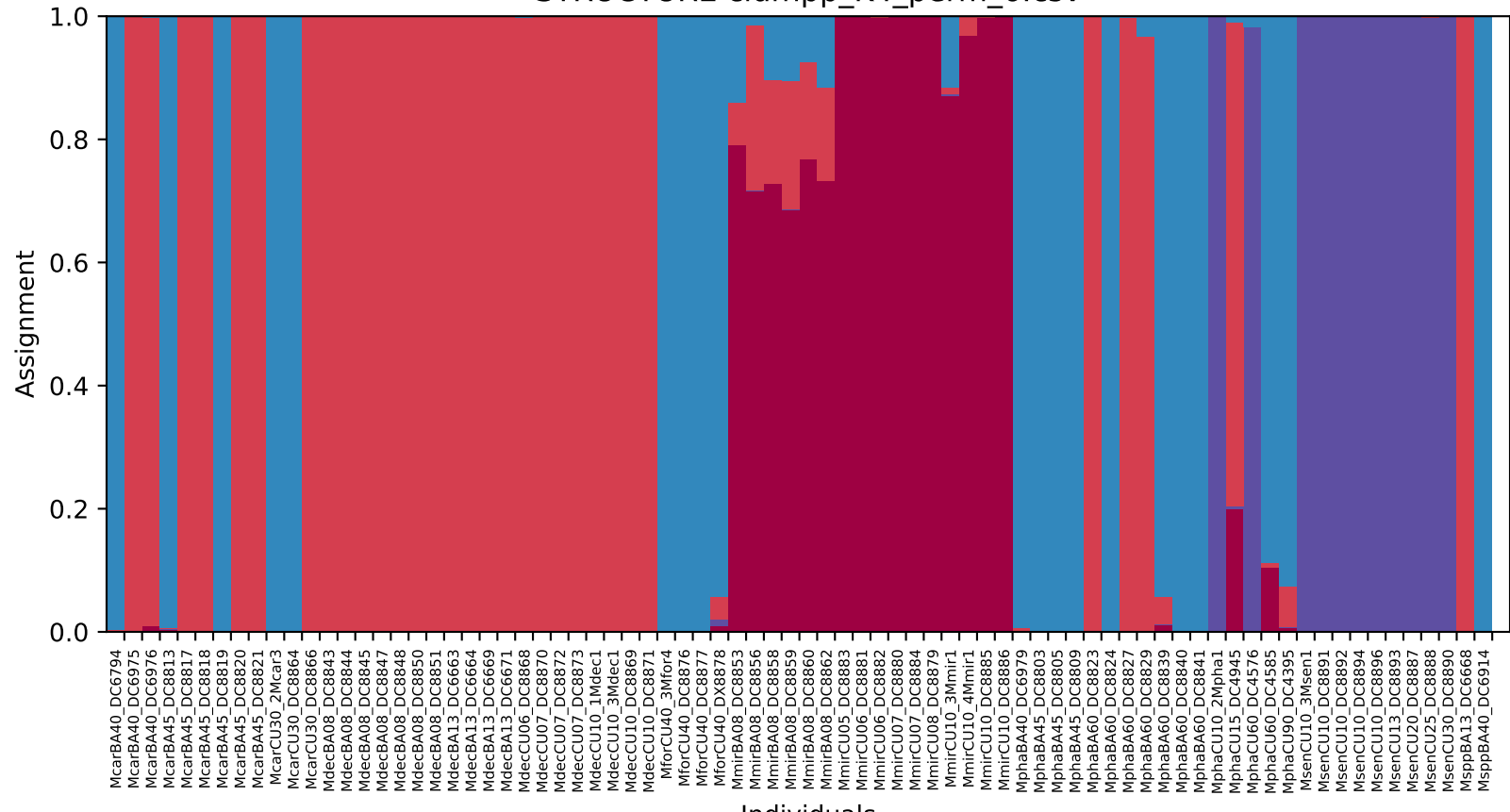
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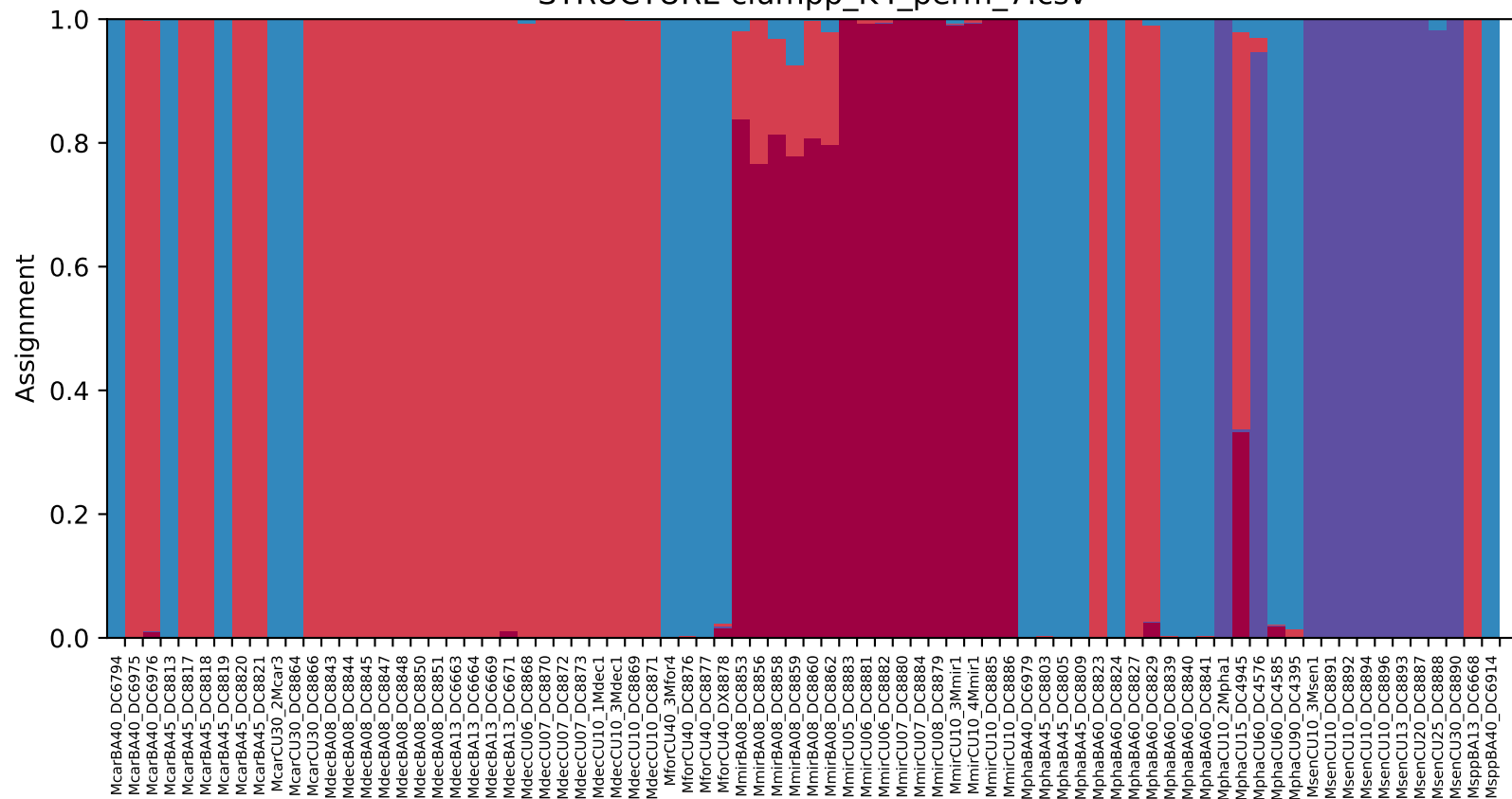
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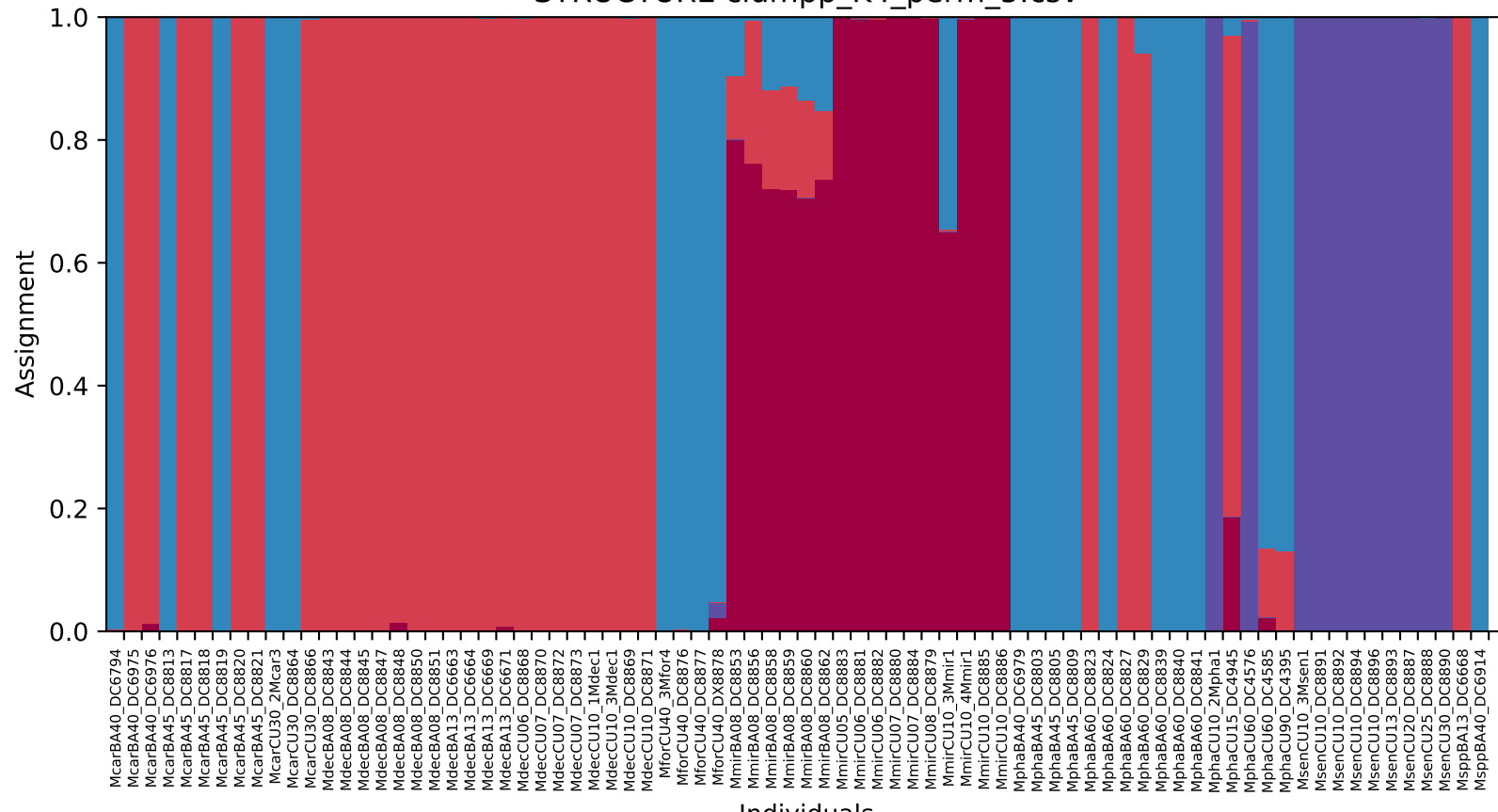
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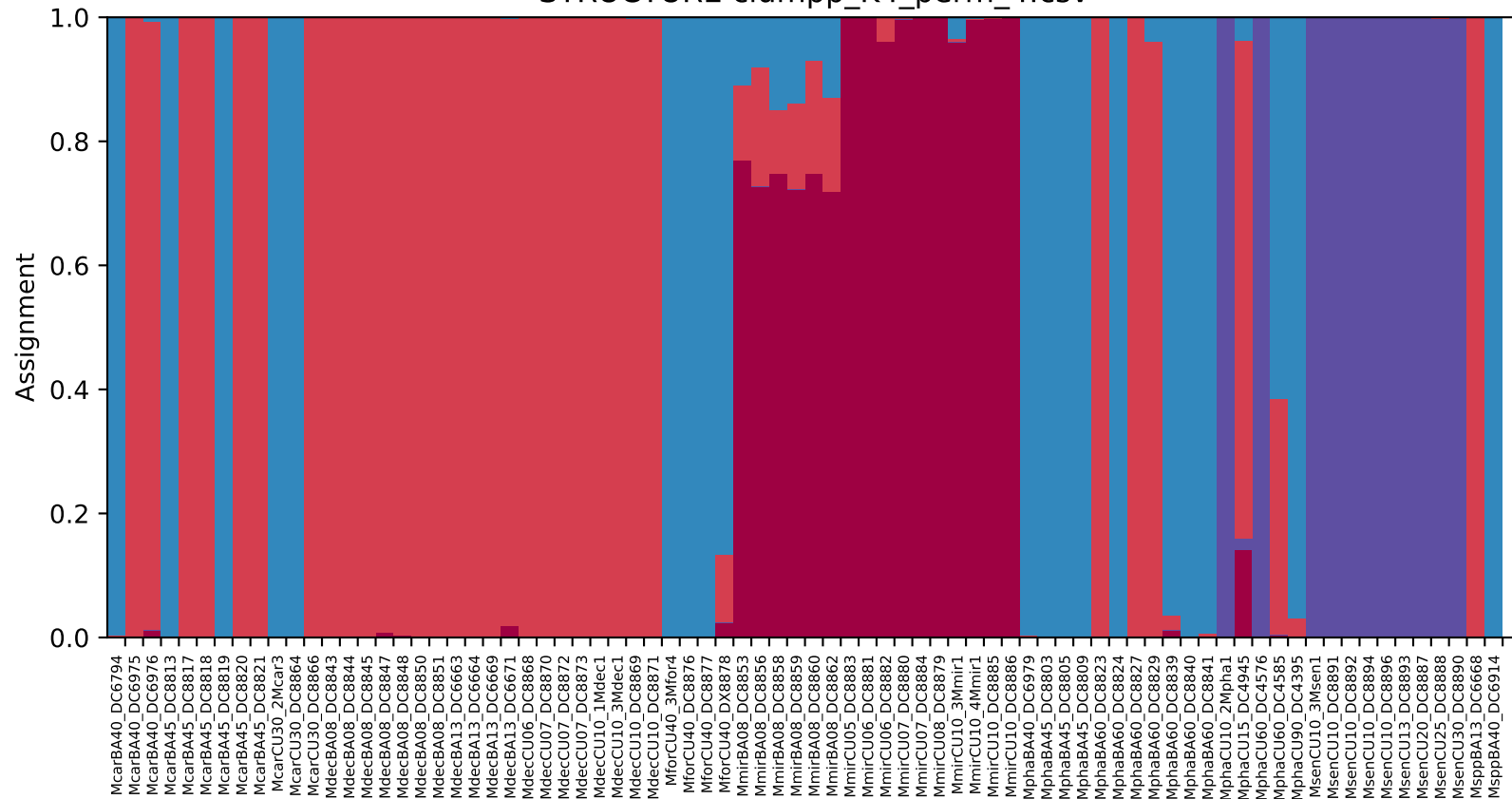
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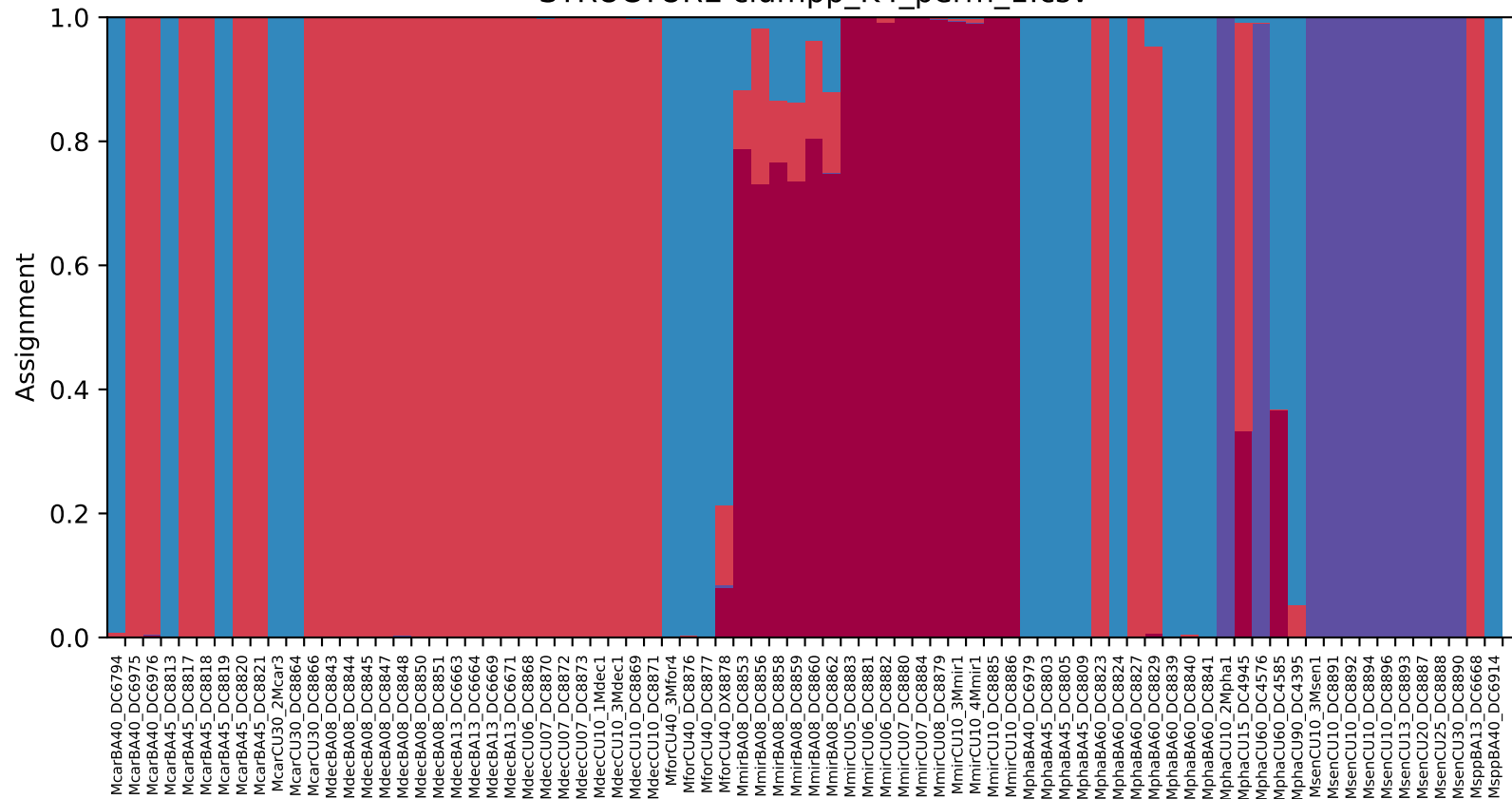
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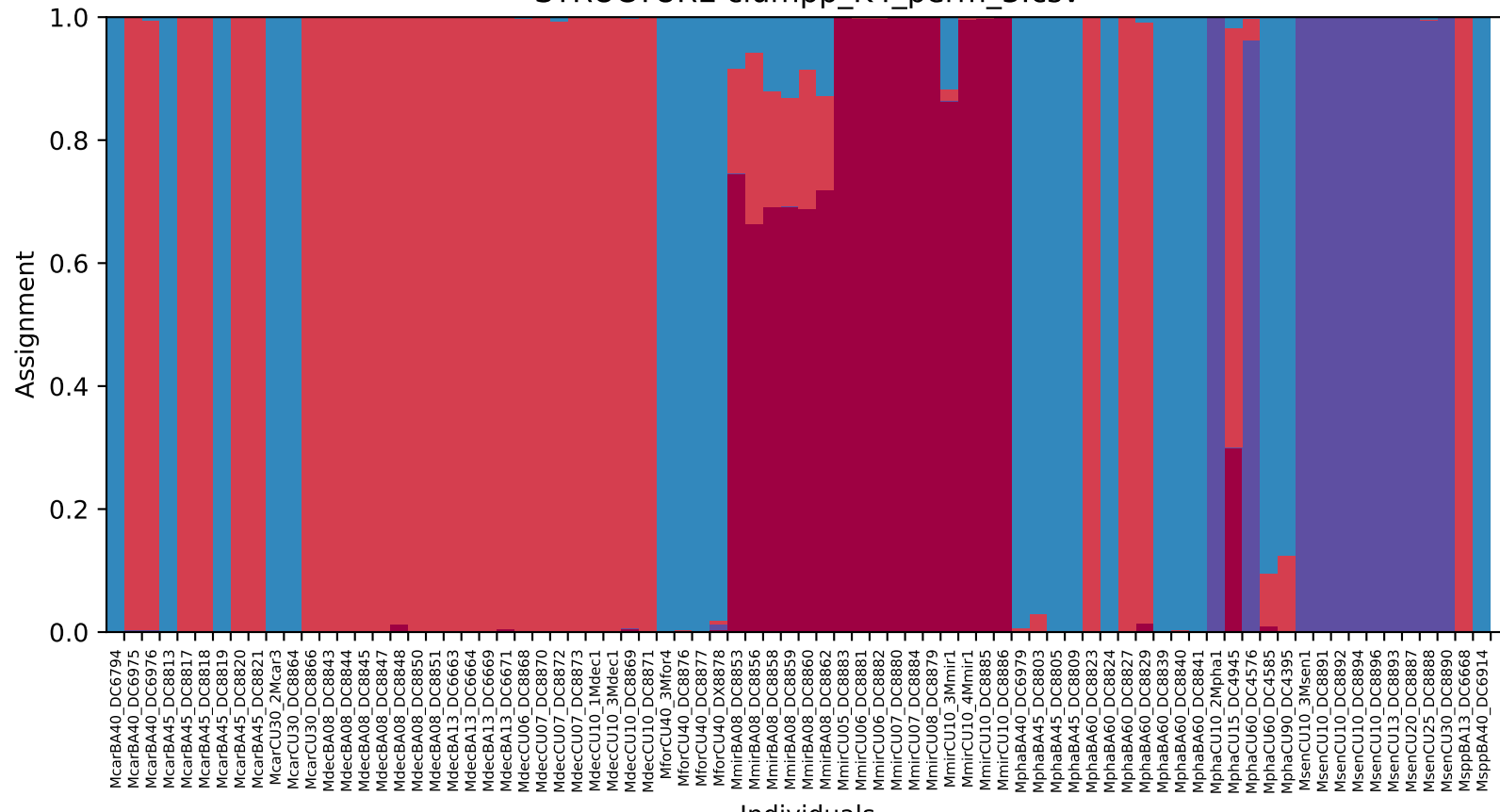
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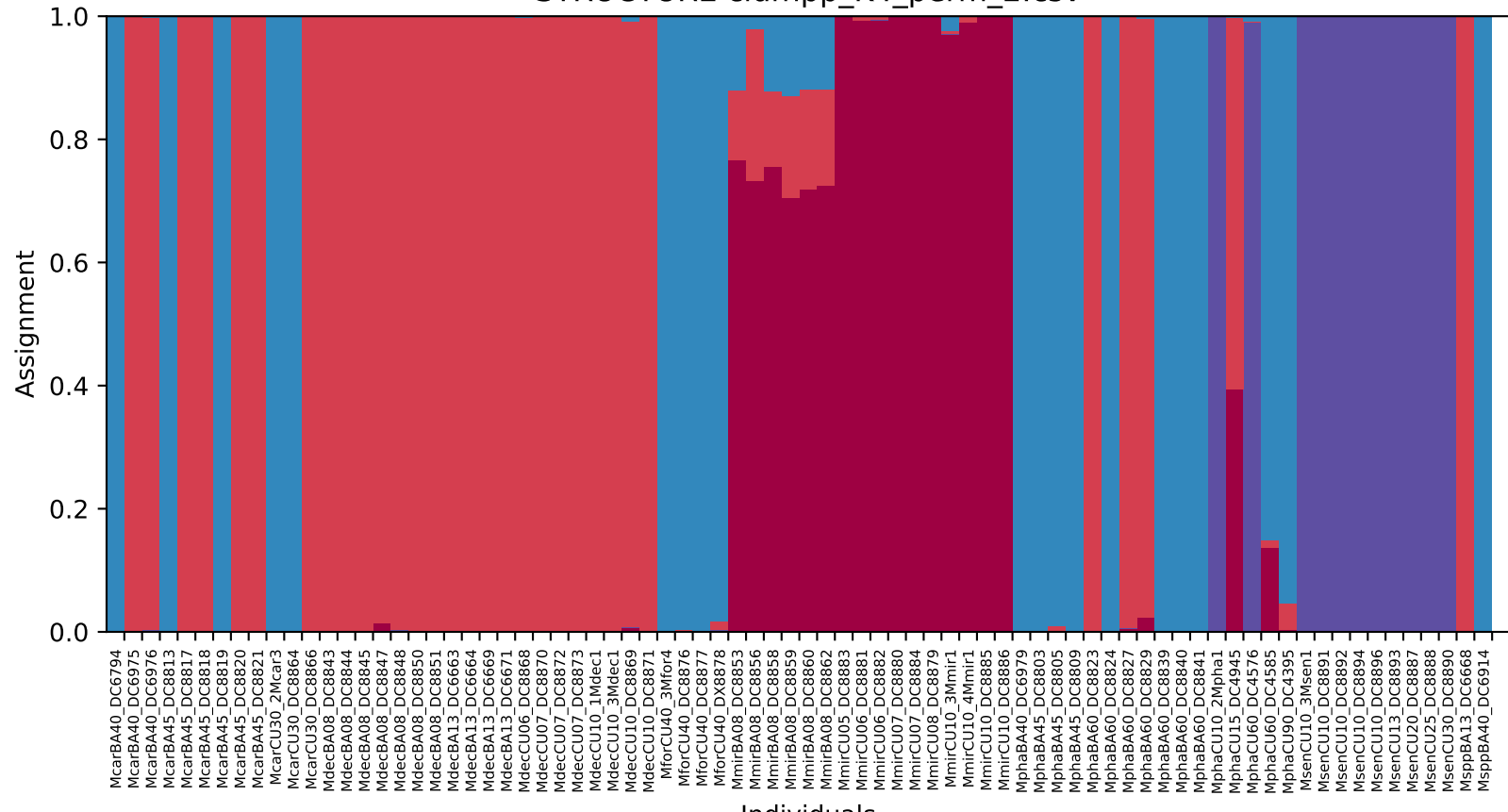
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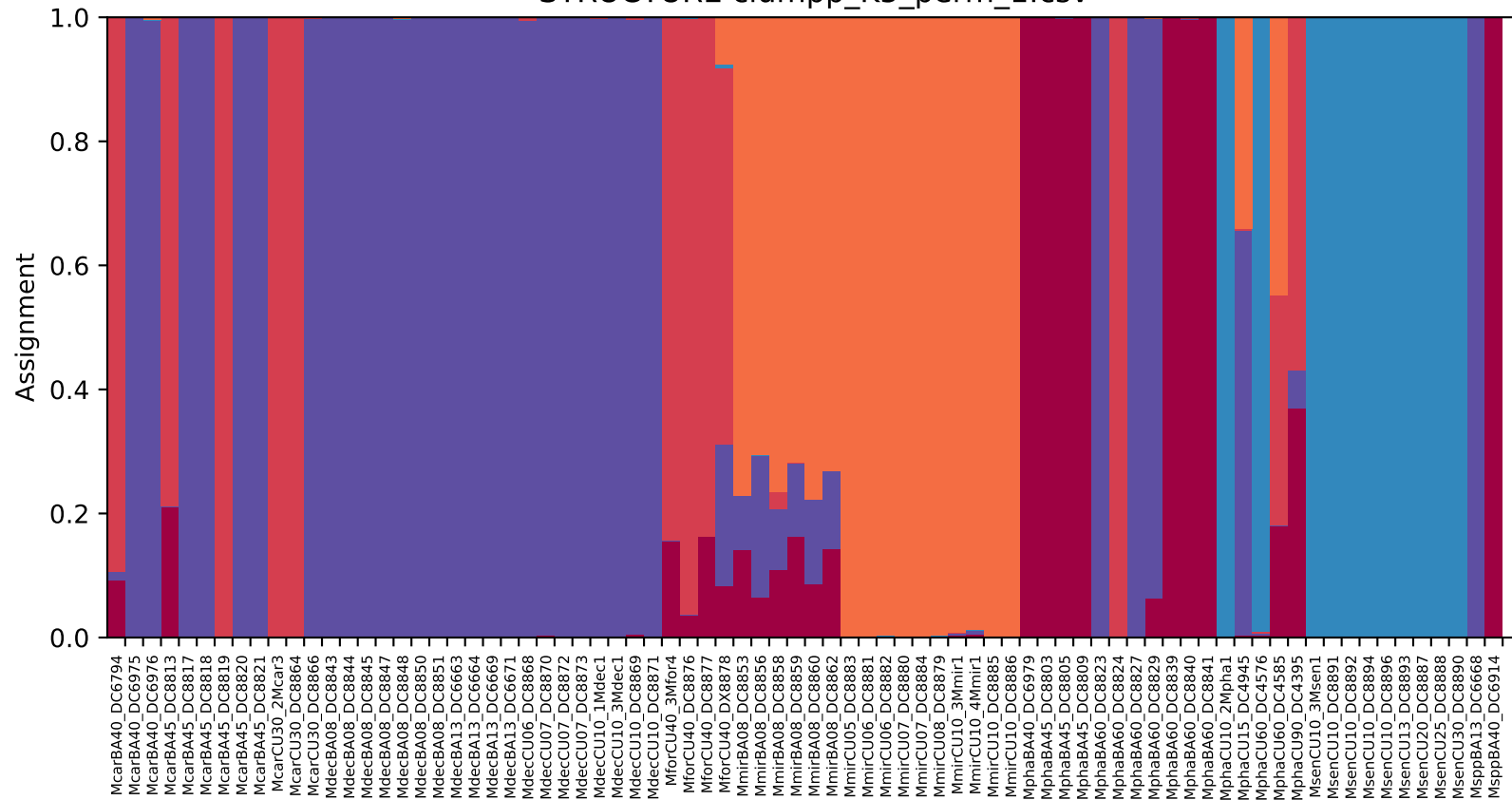
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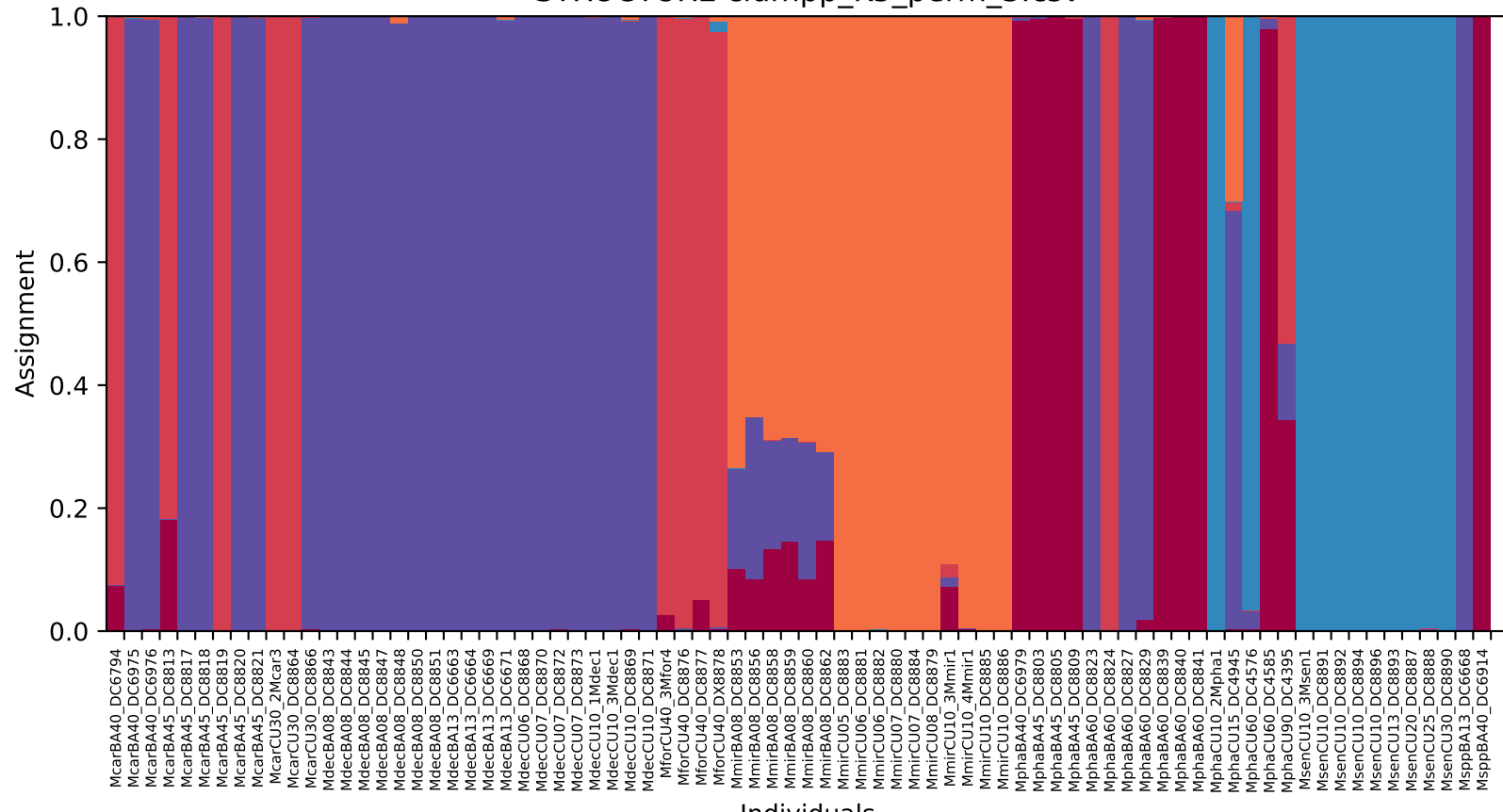
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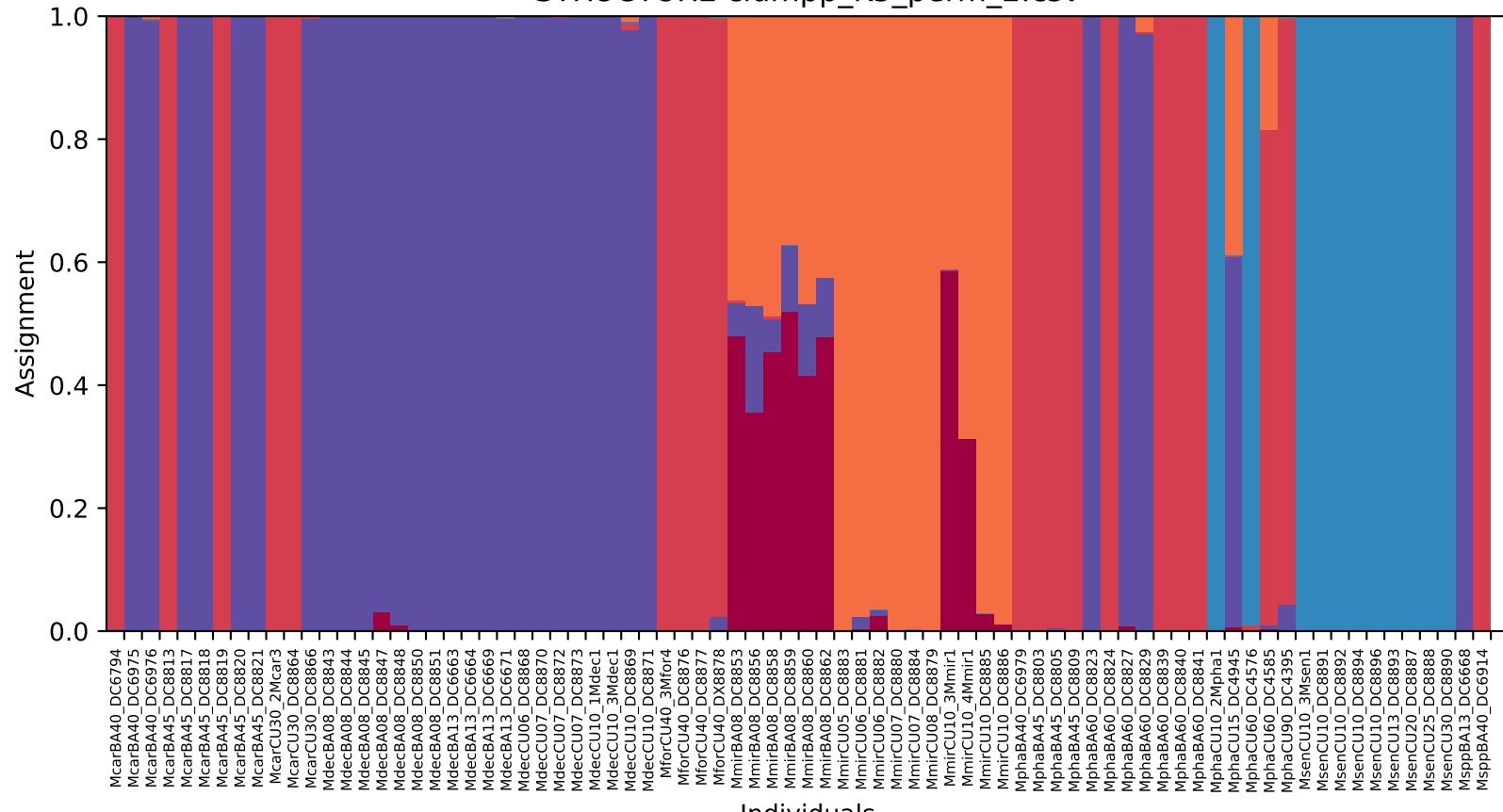
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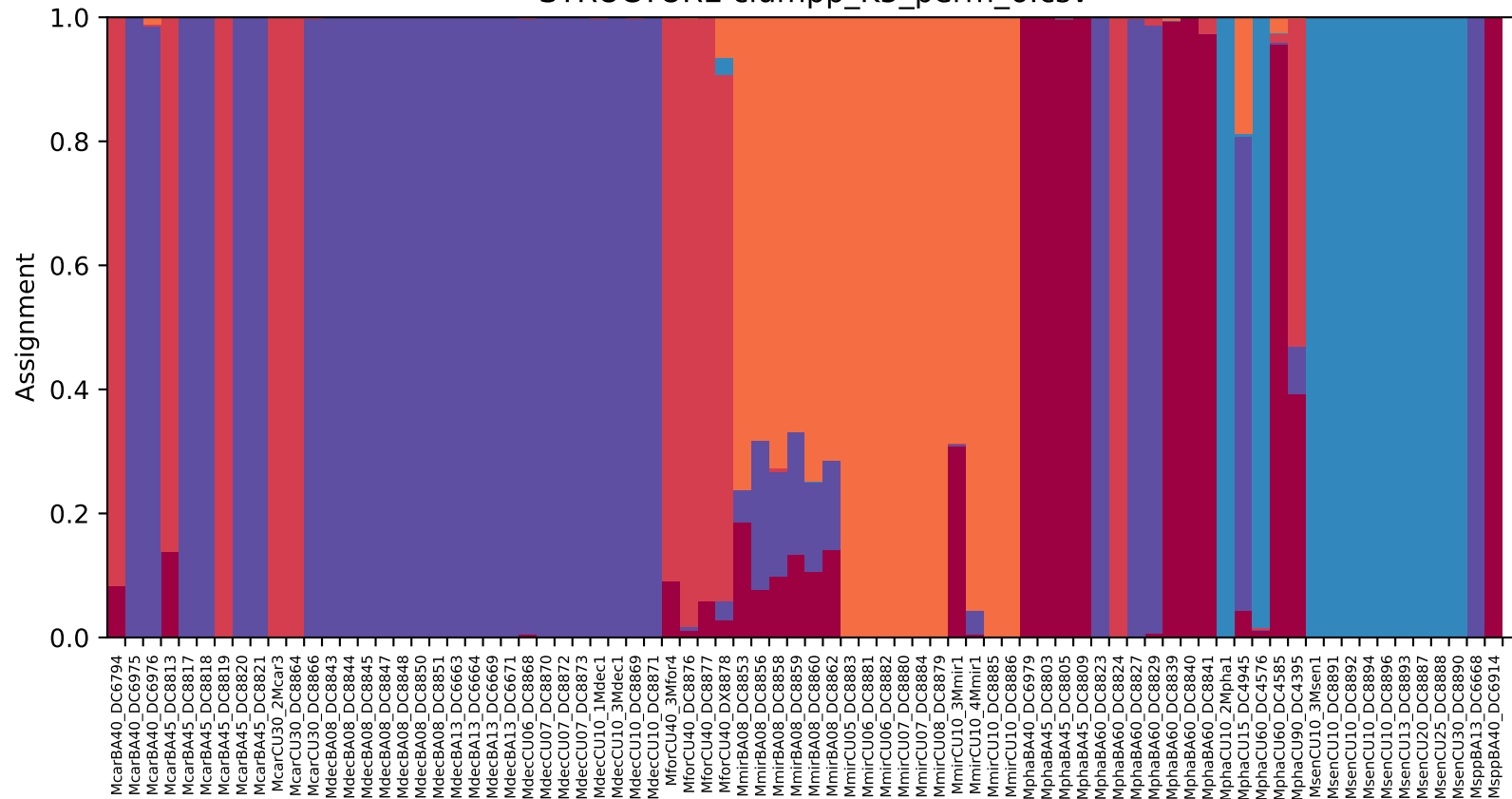
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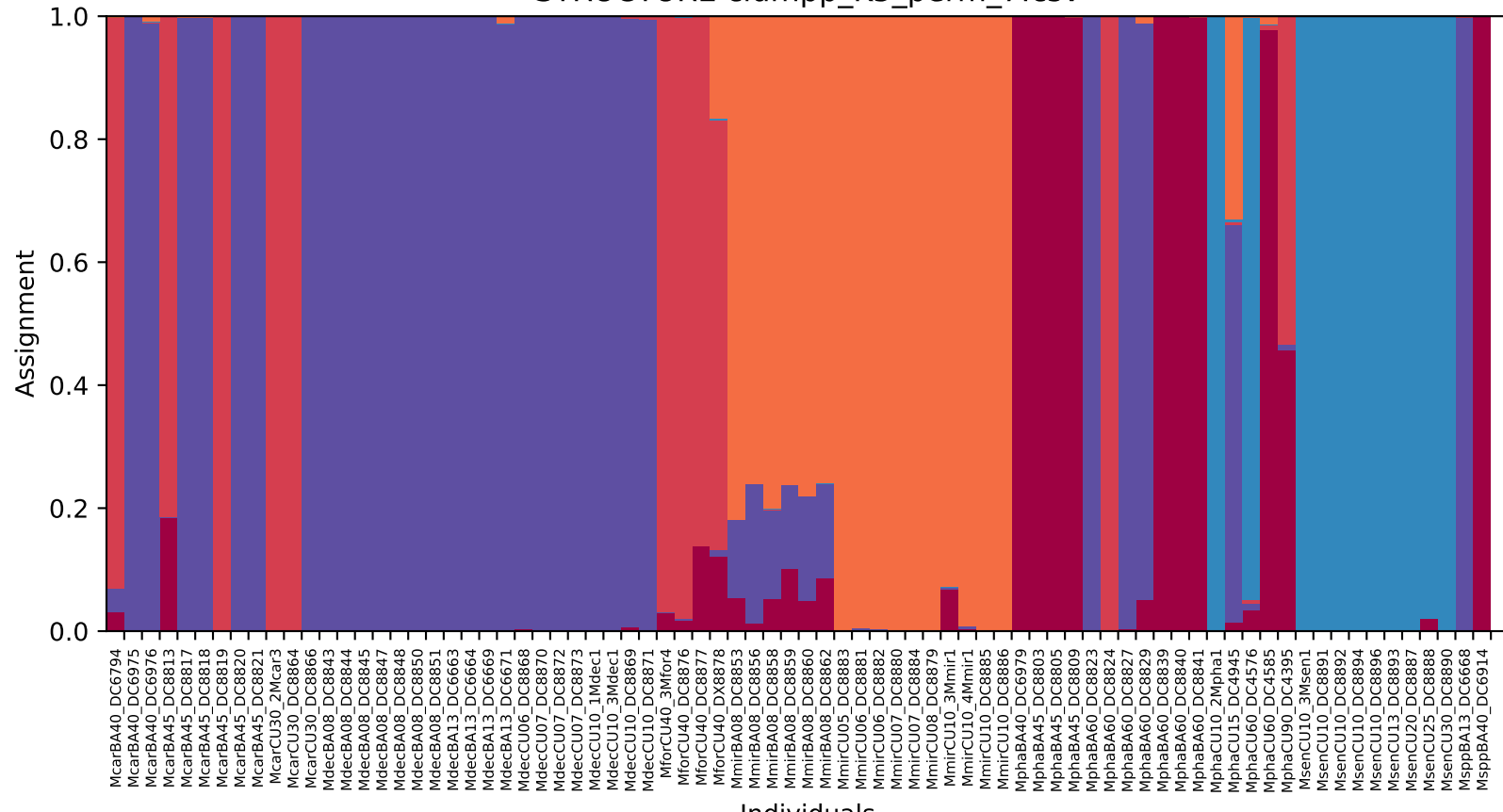
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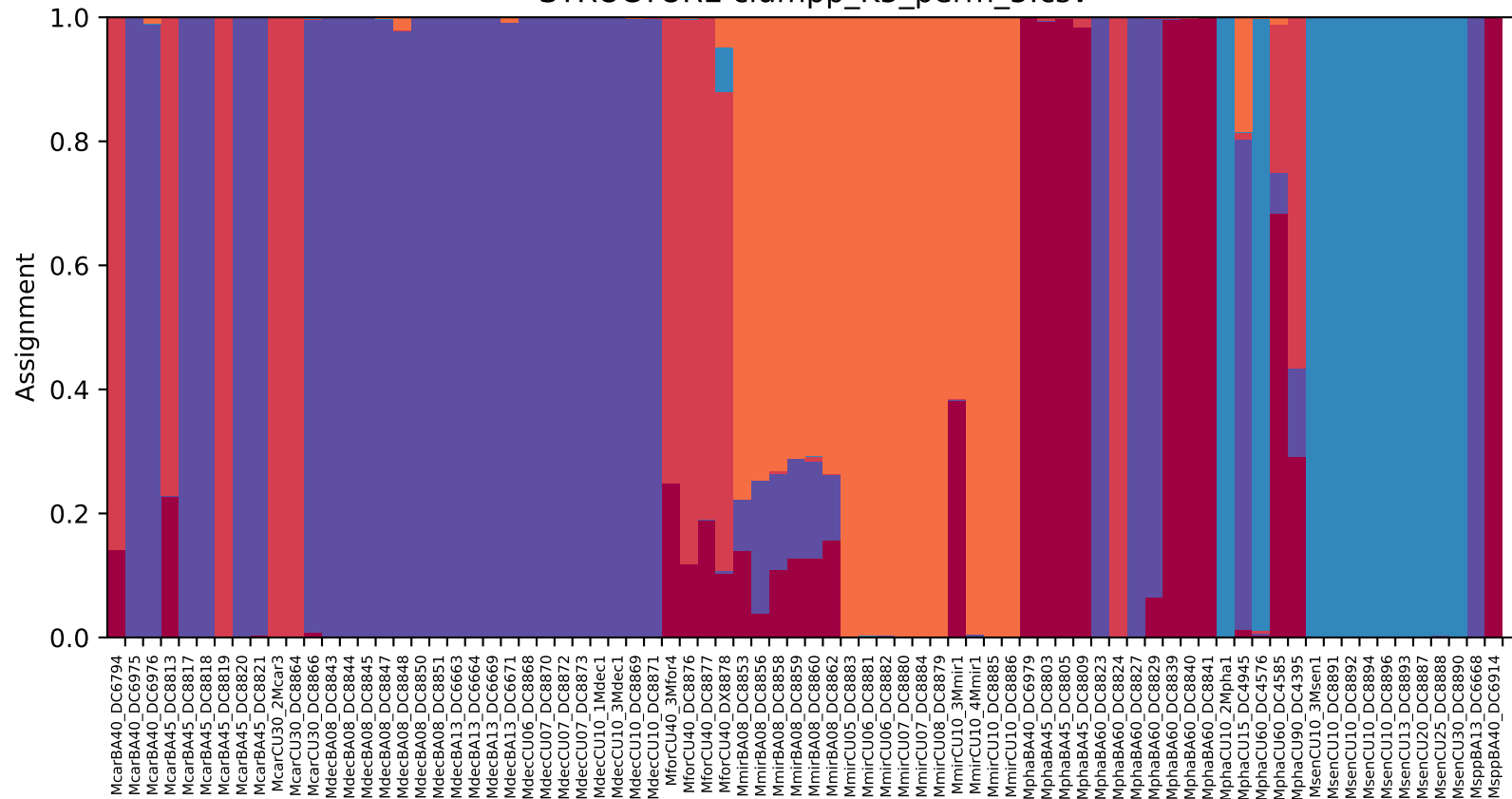
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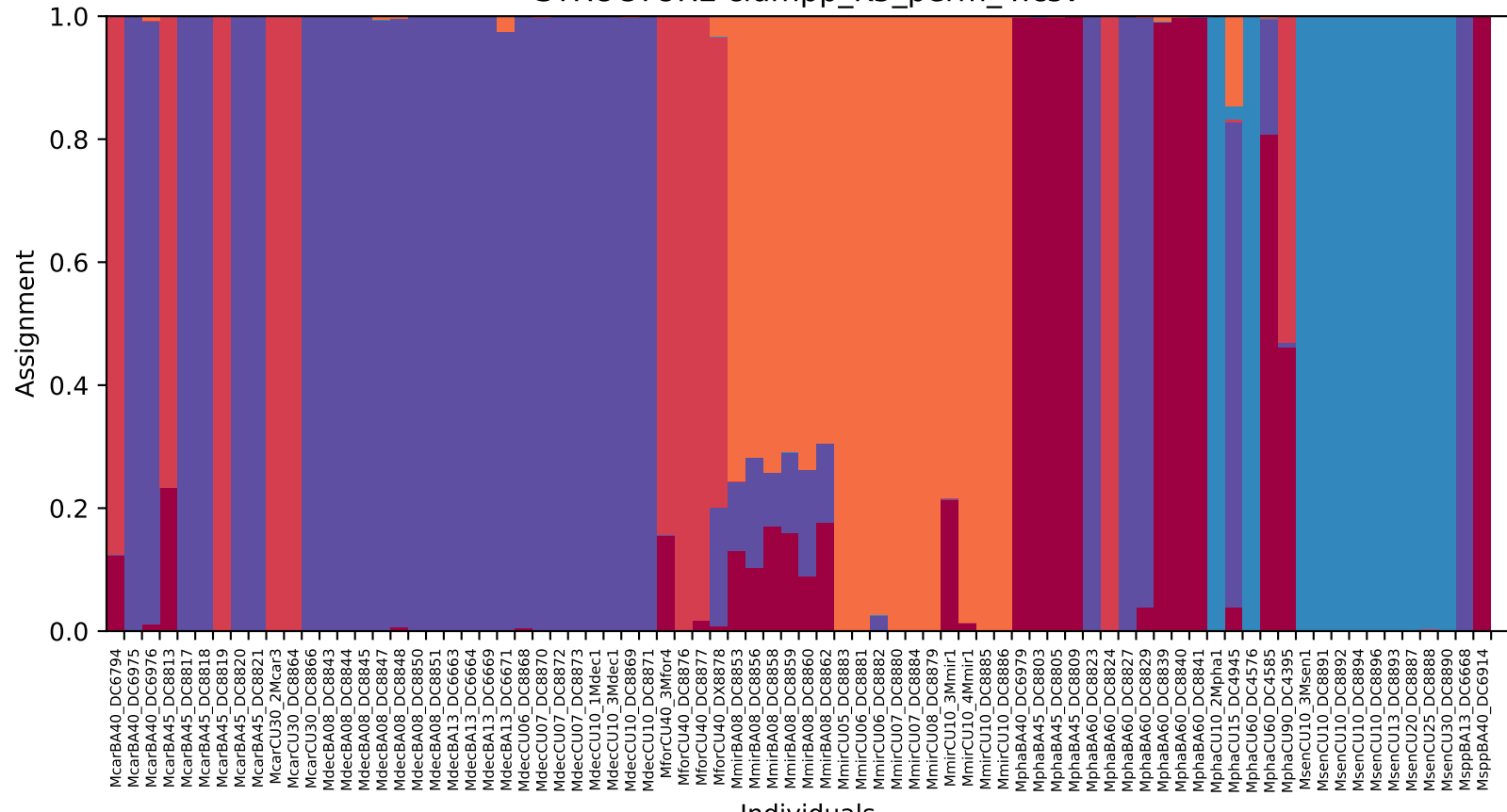
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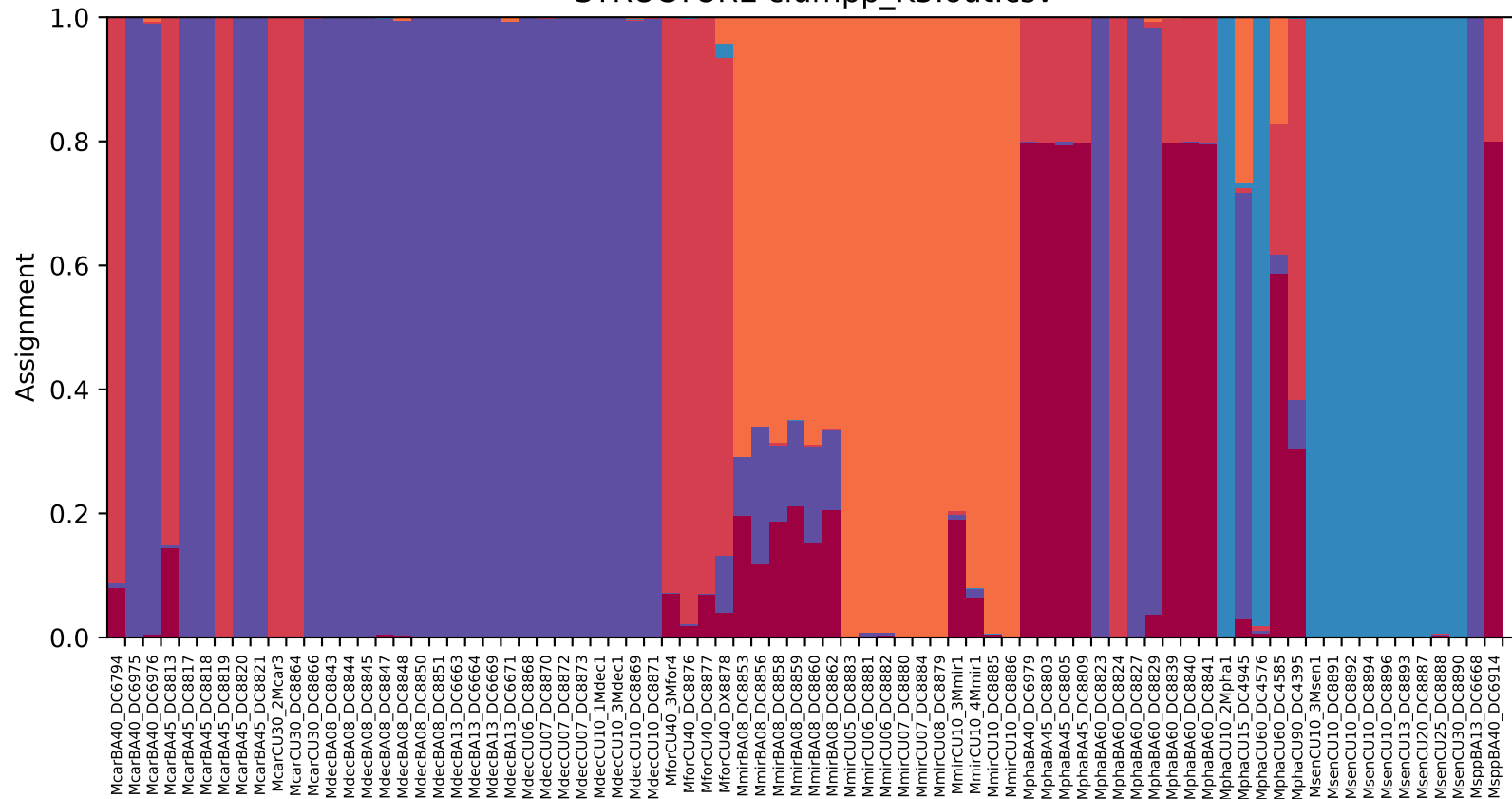
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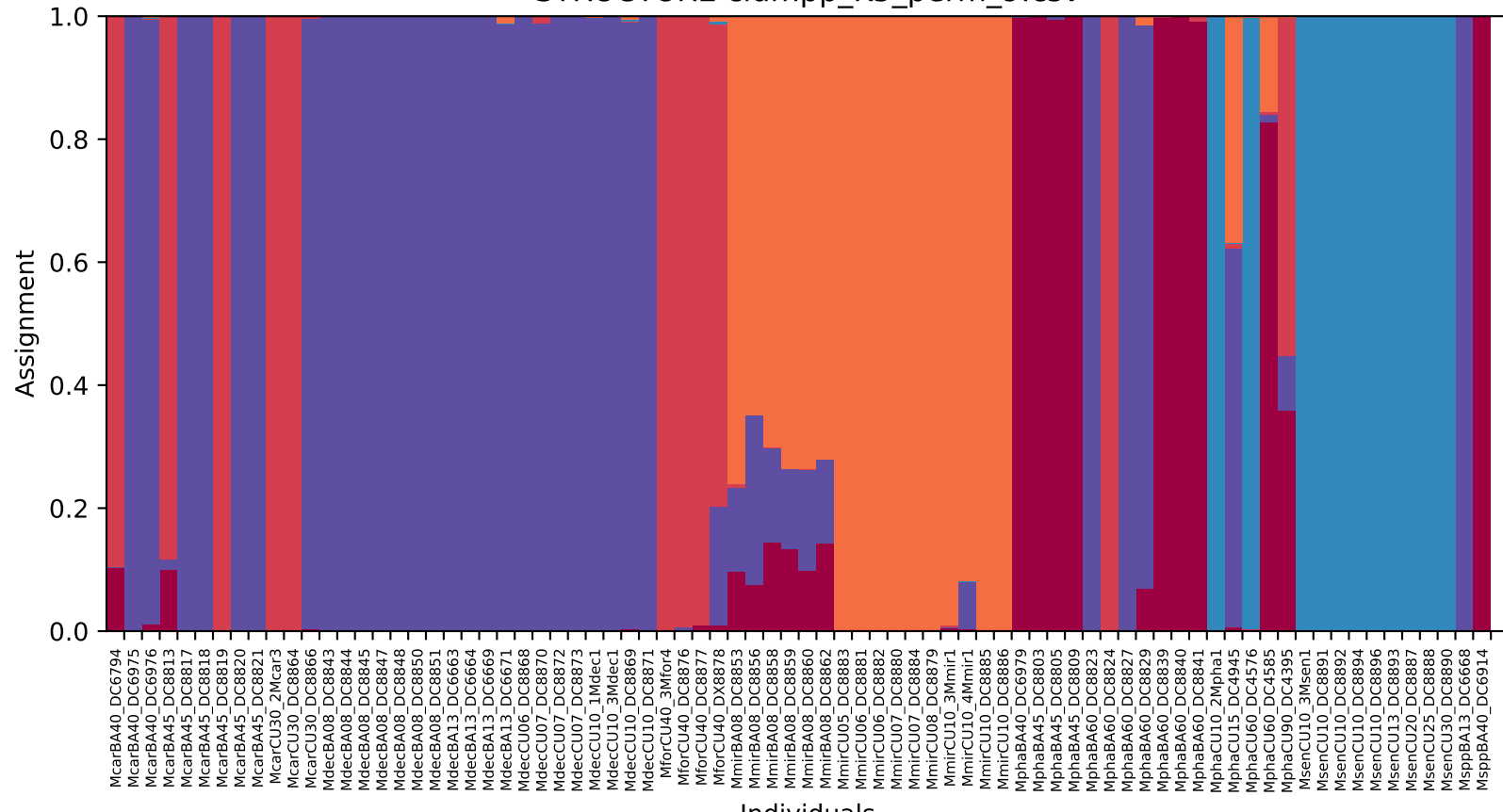
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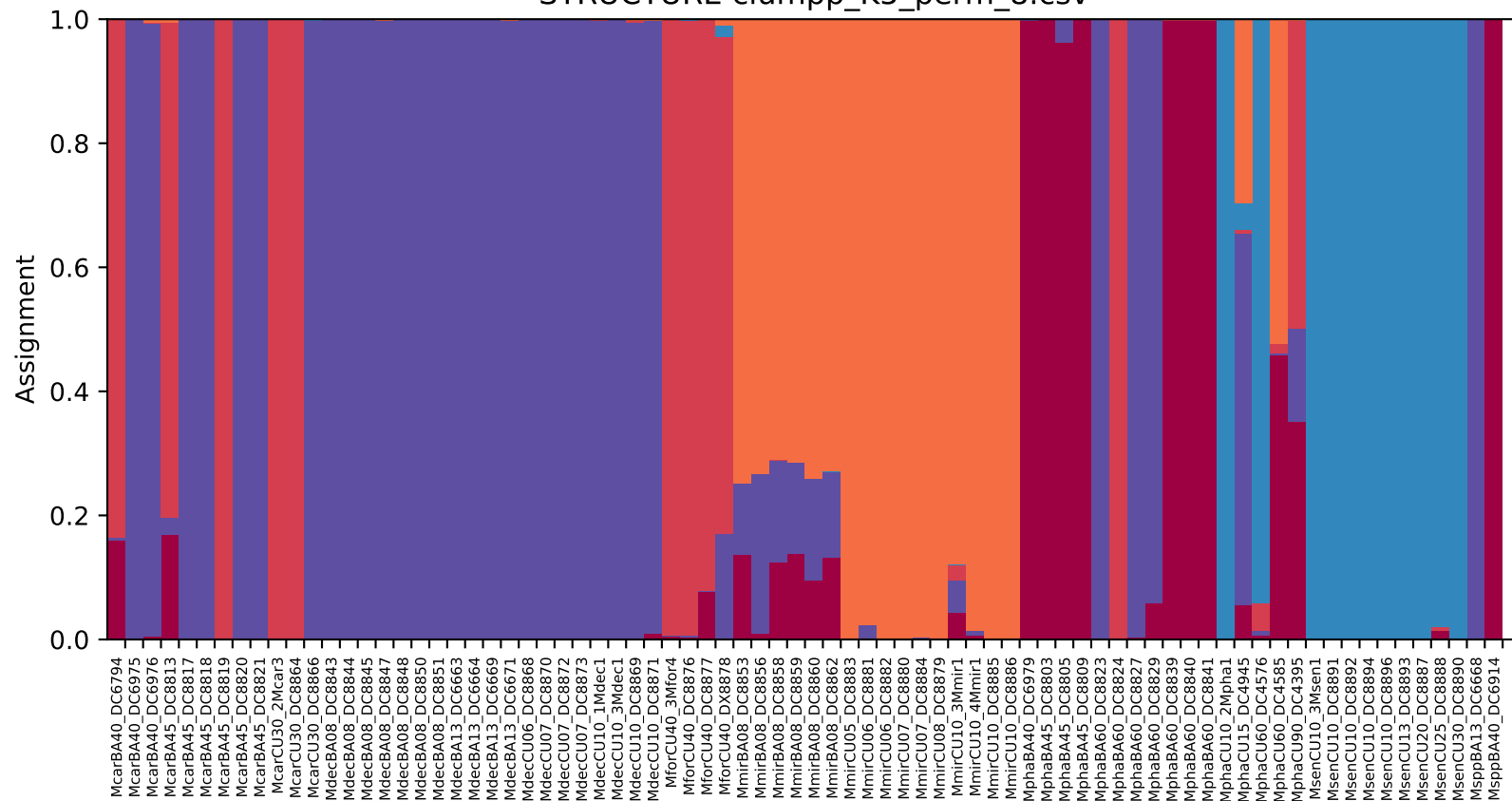
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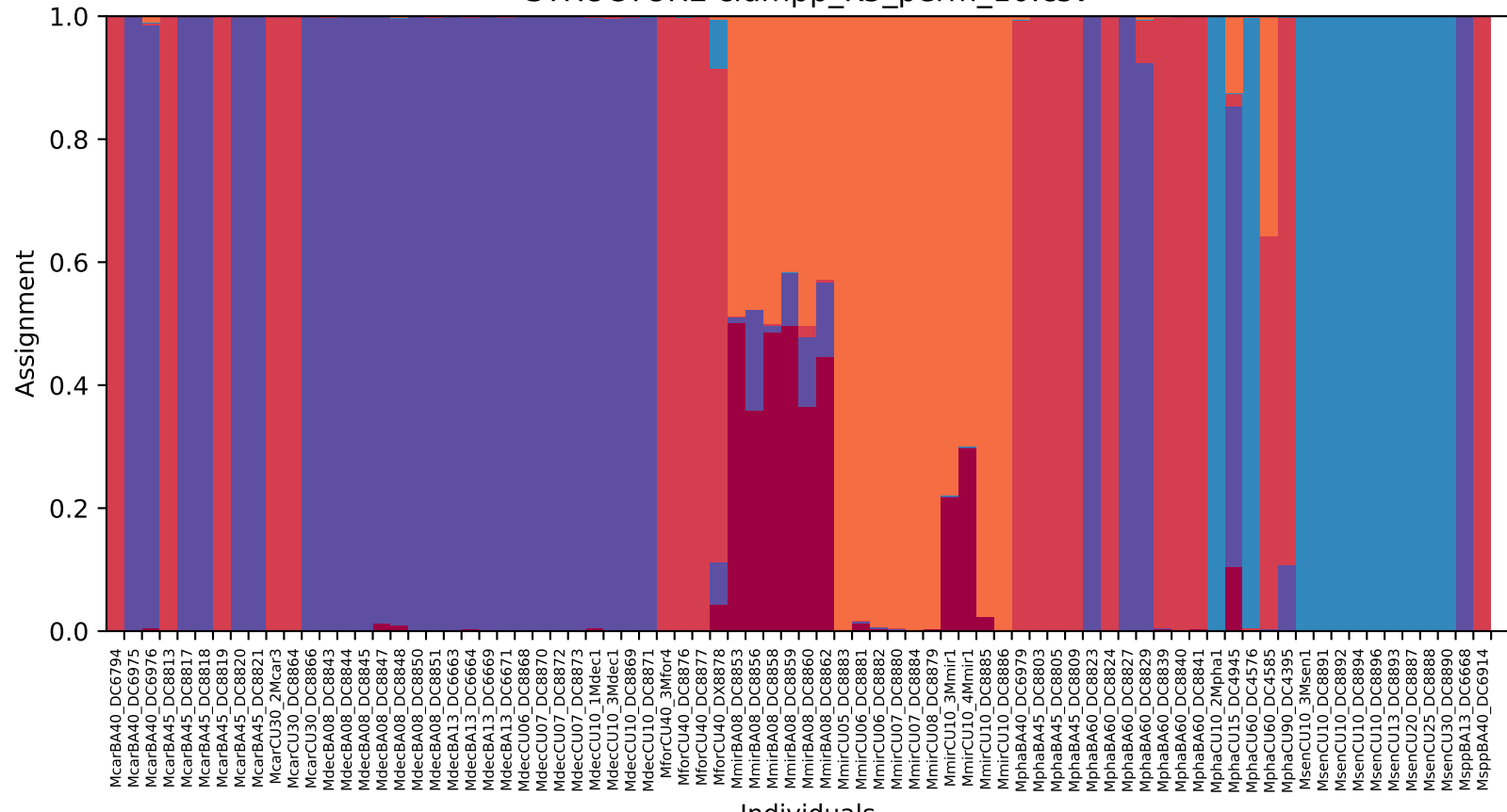
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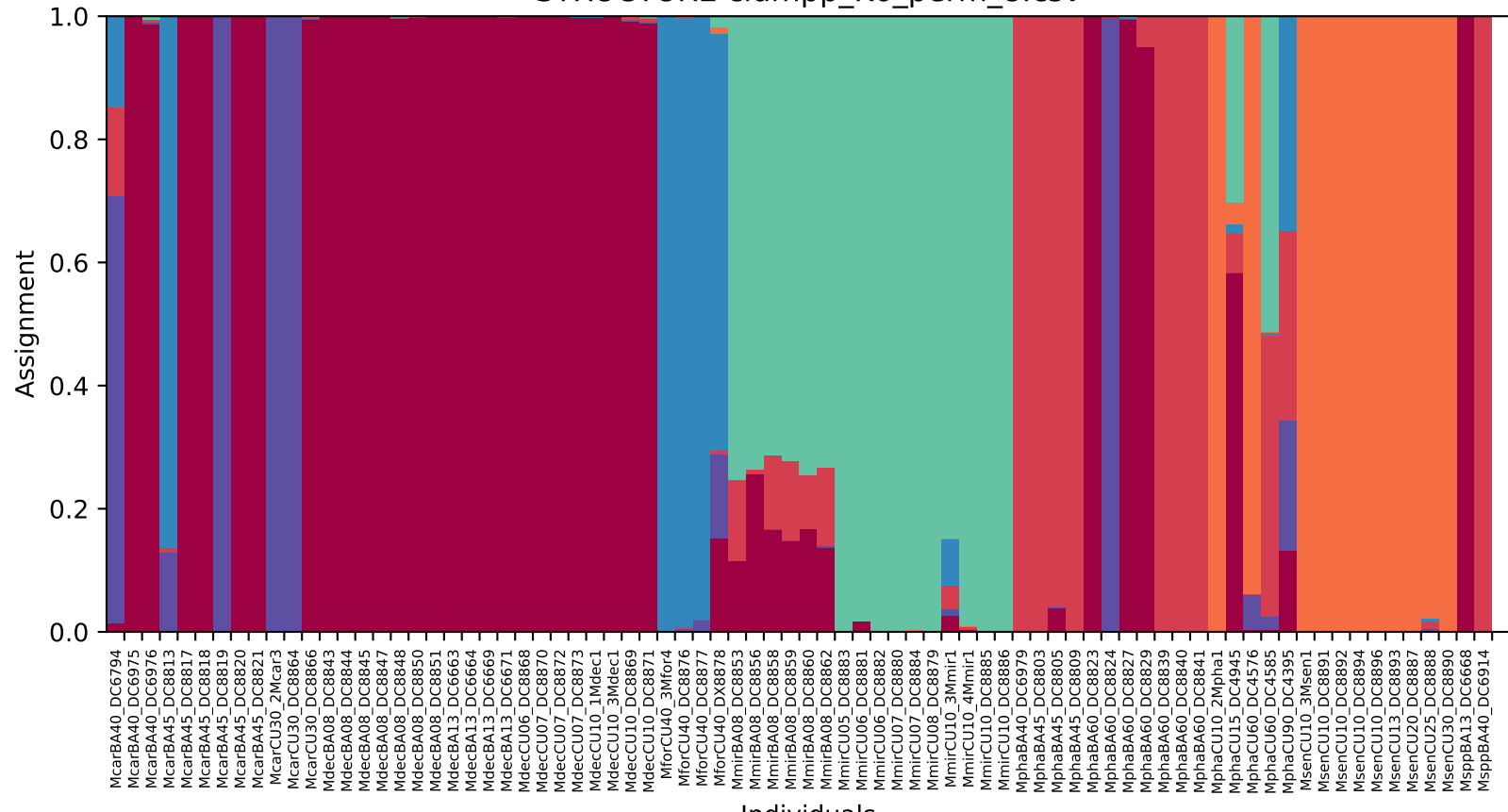
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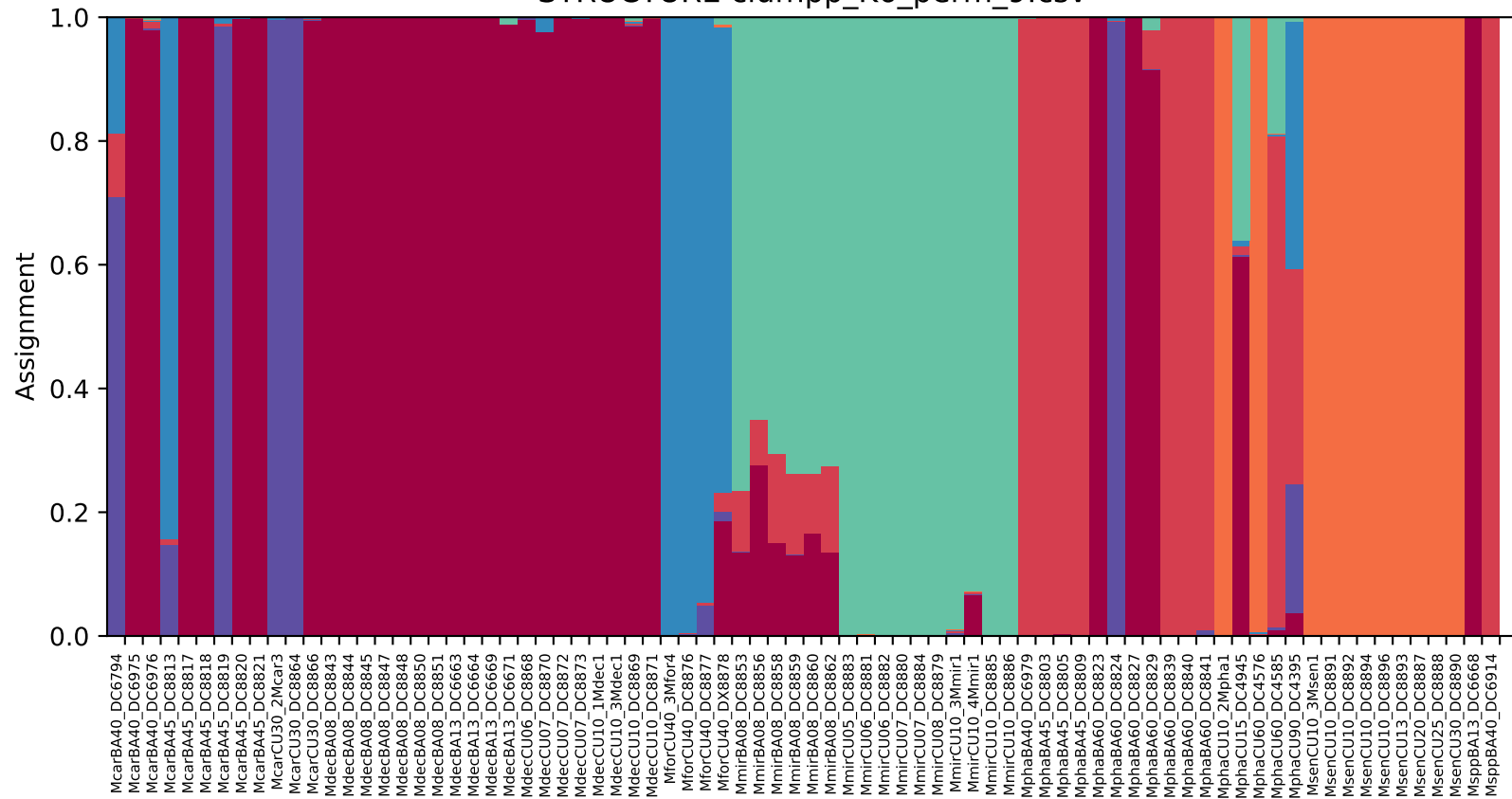
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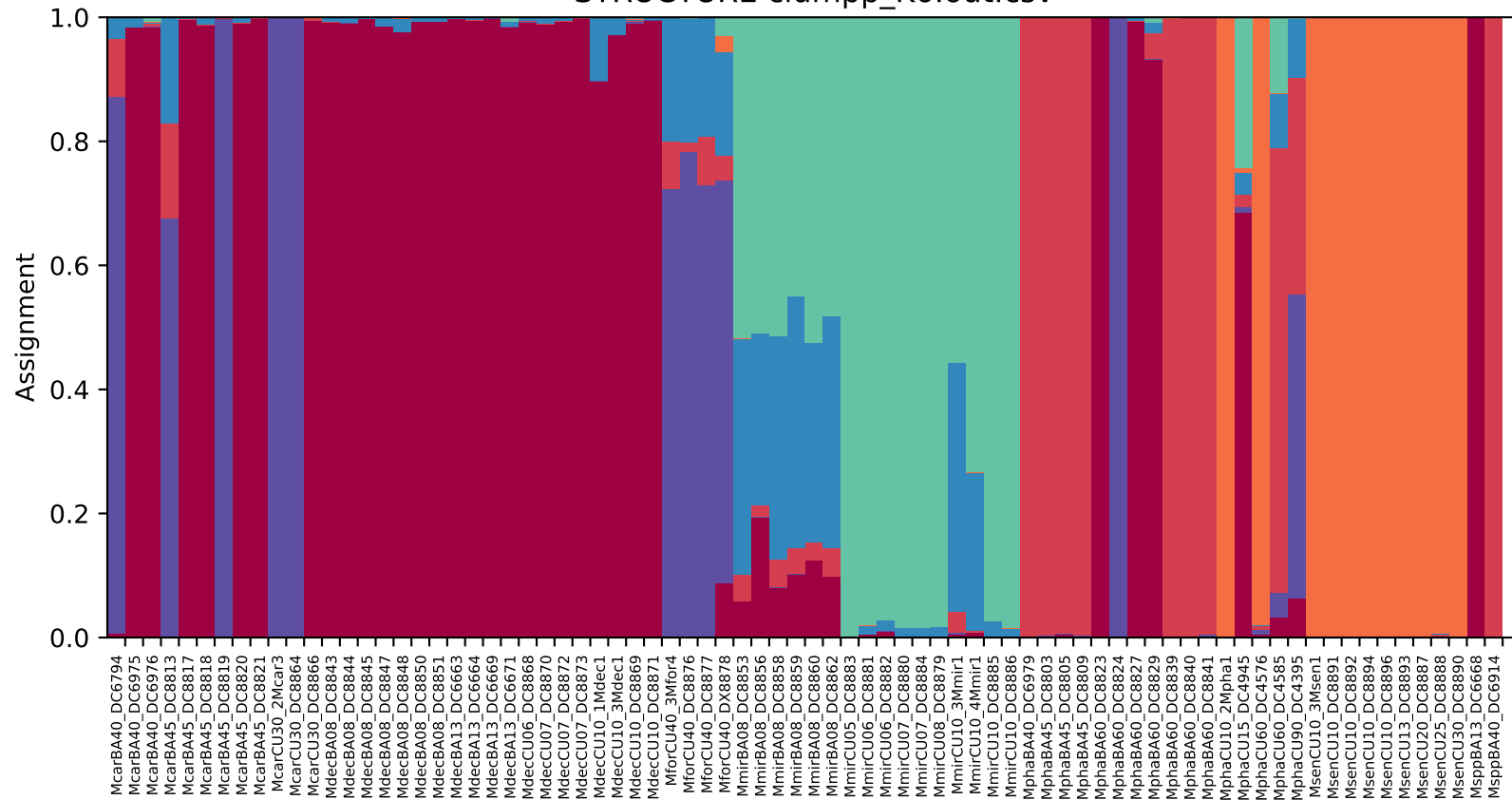
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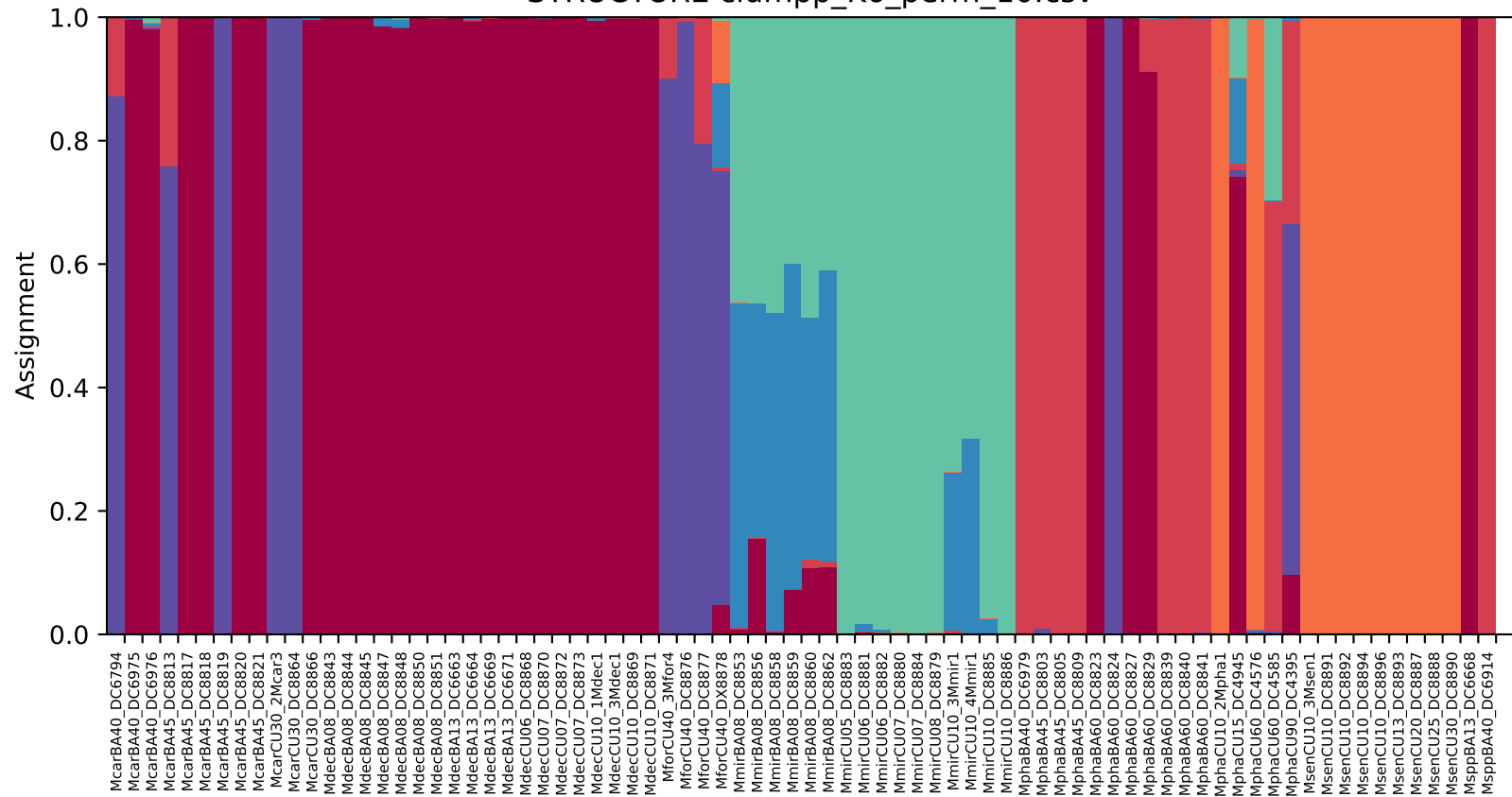
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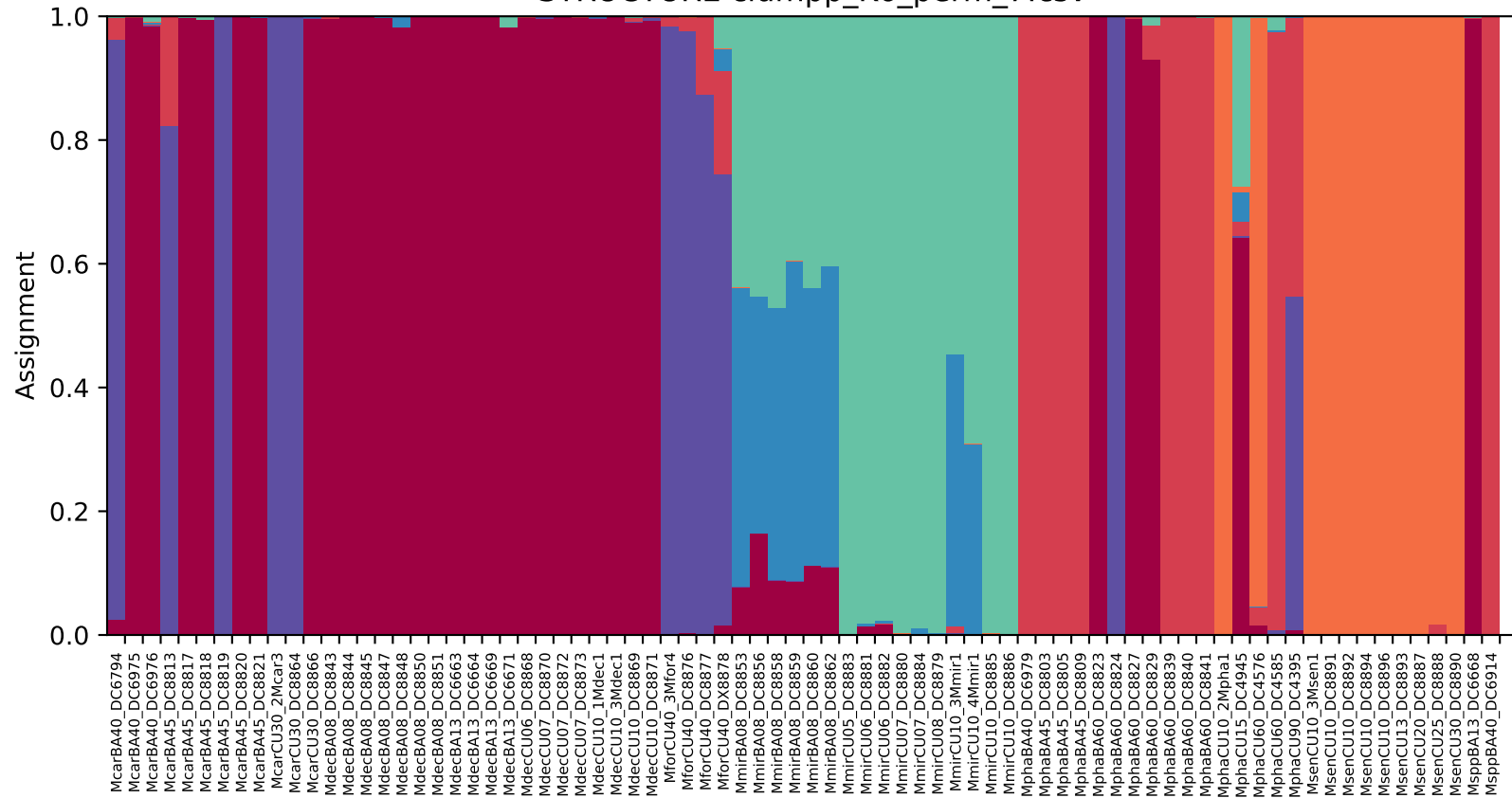
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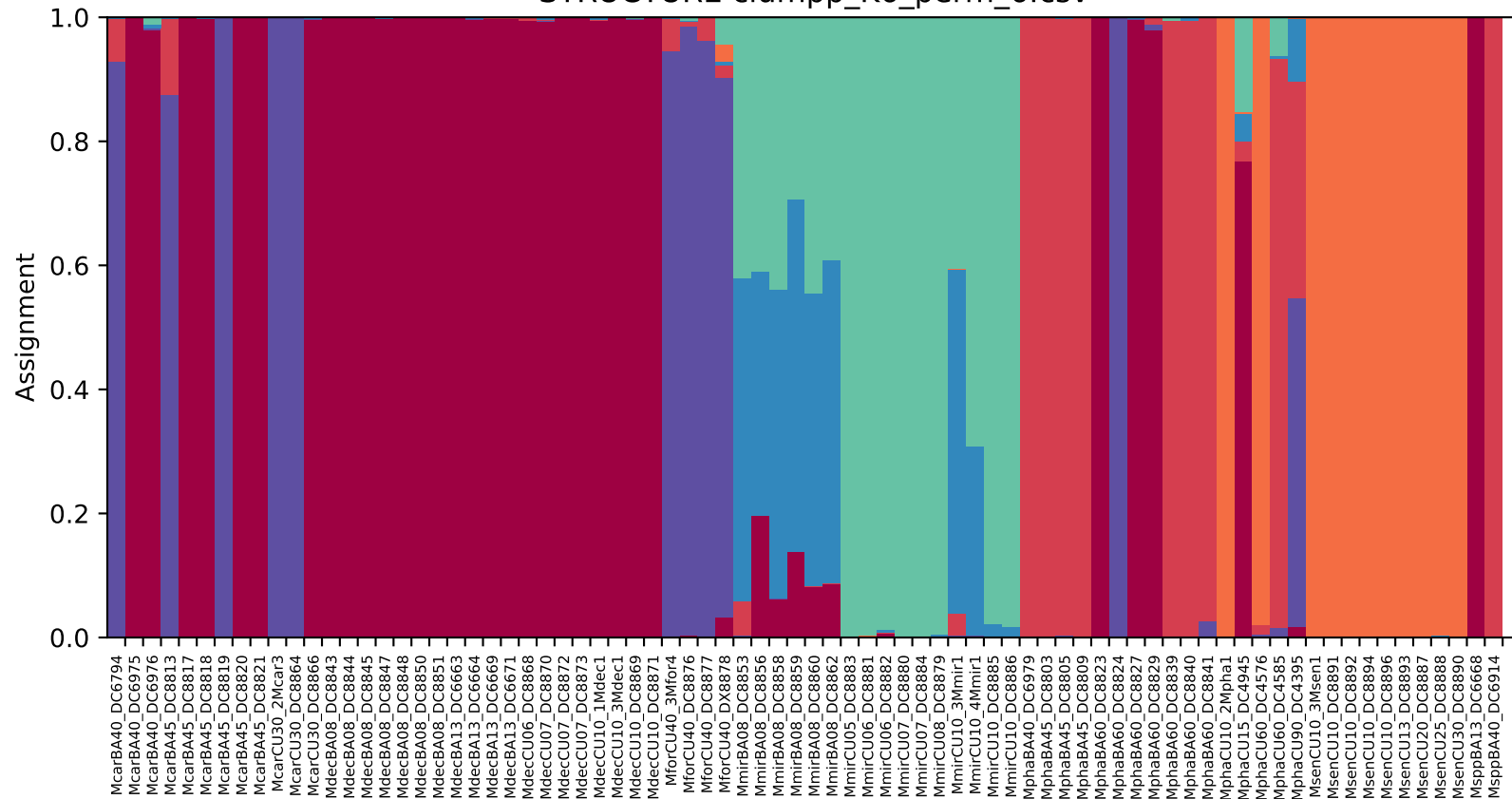
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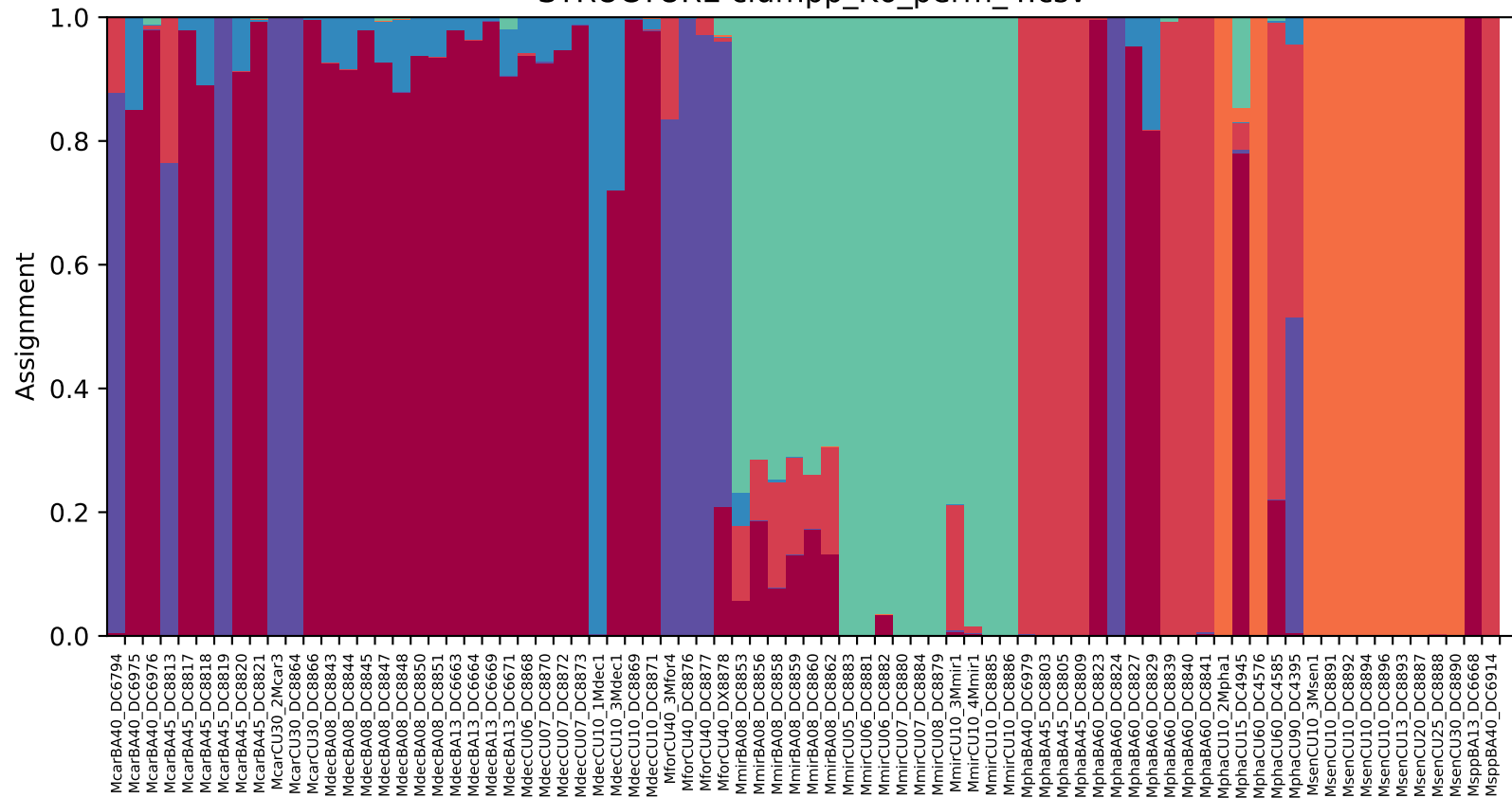
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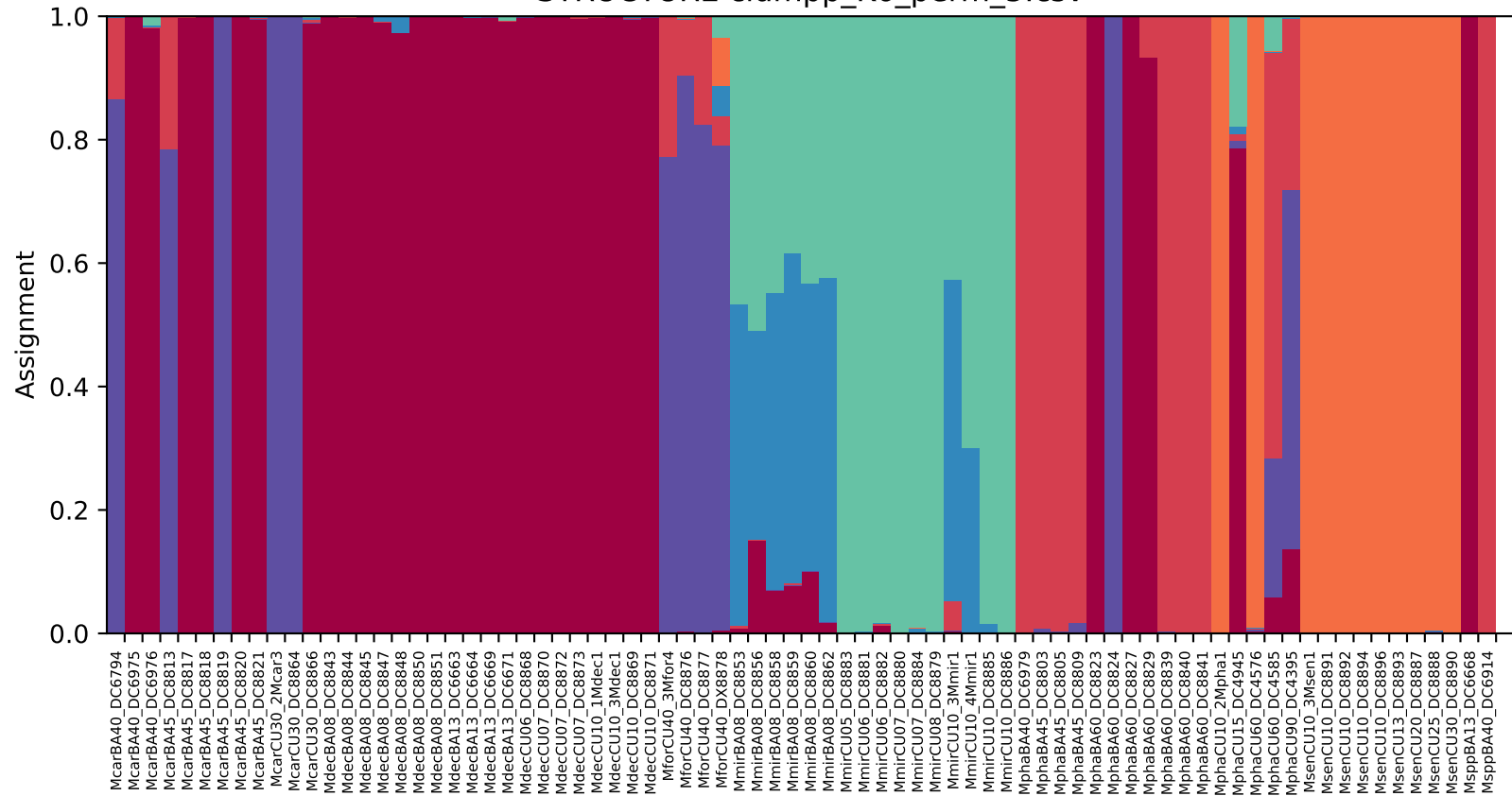
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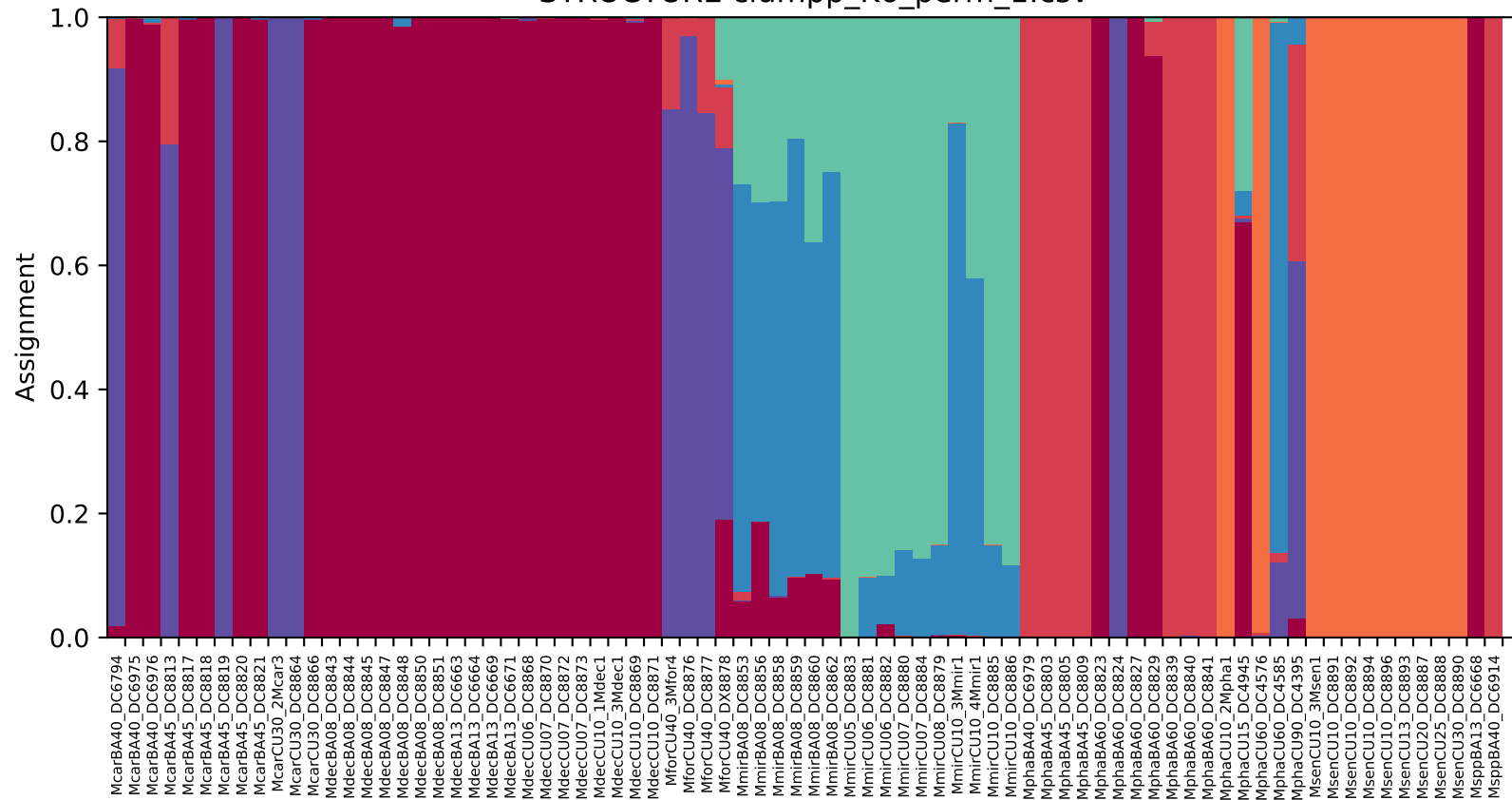
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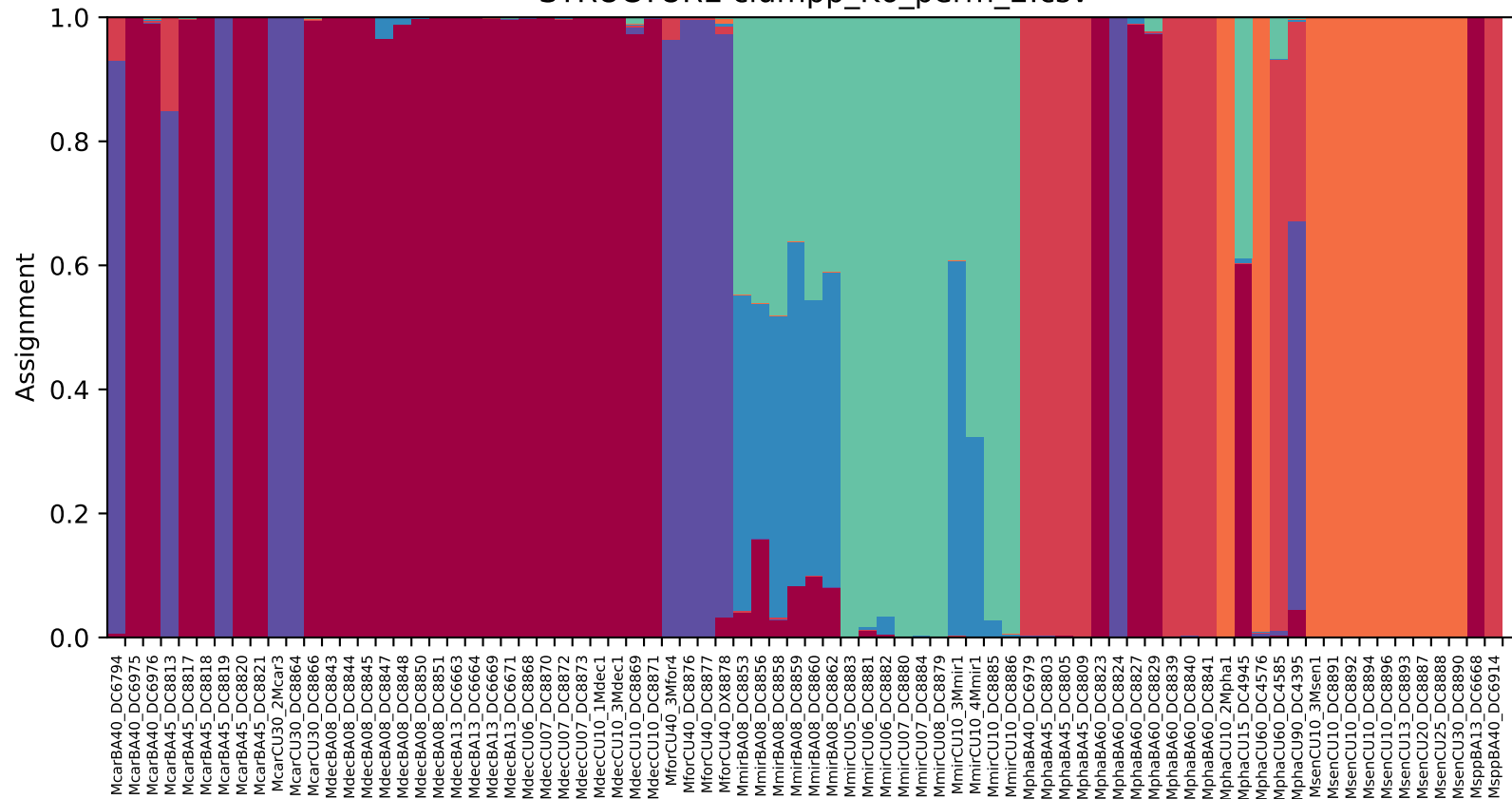
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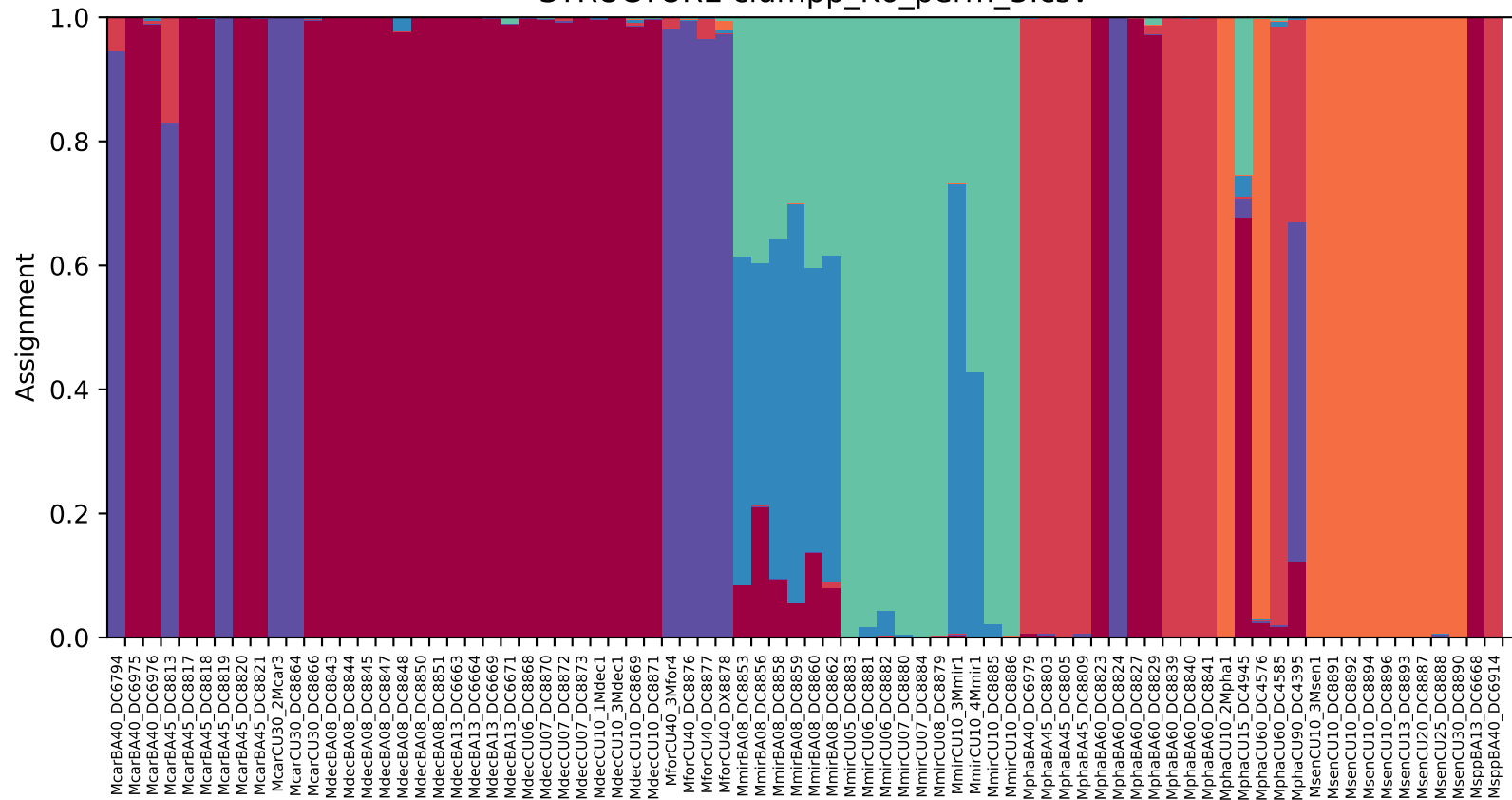
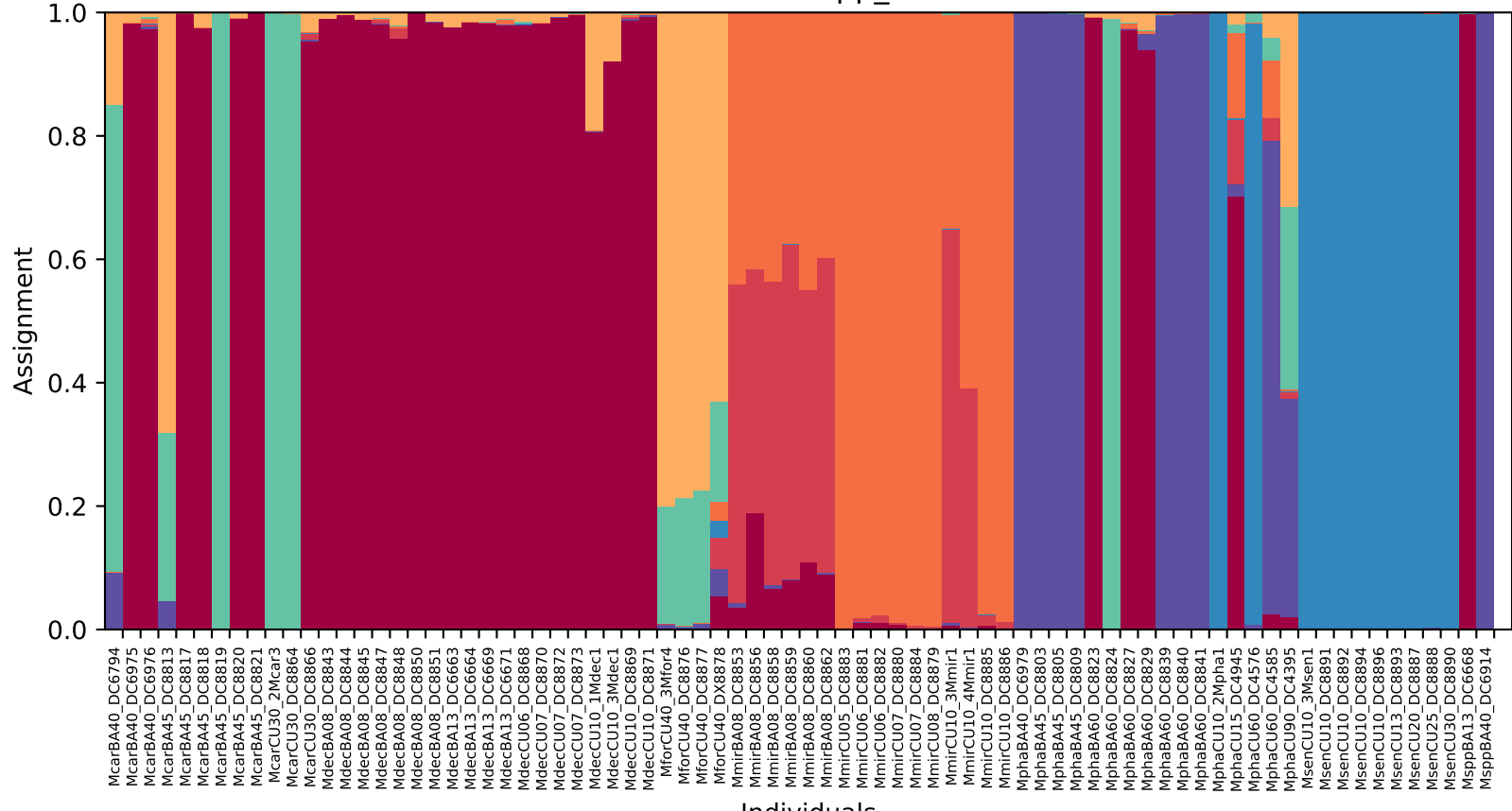
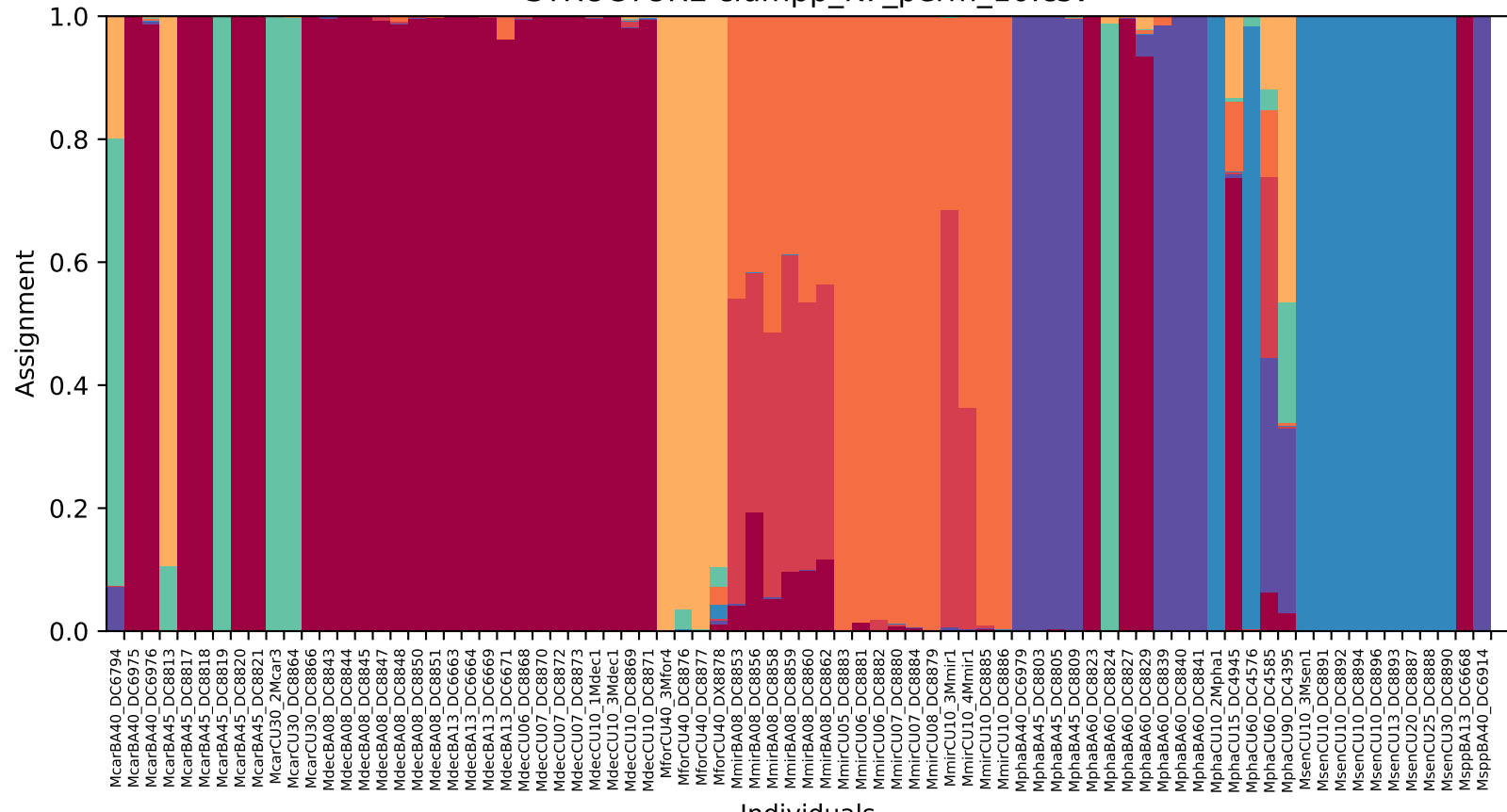


Figure S5b

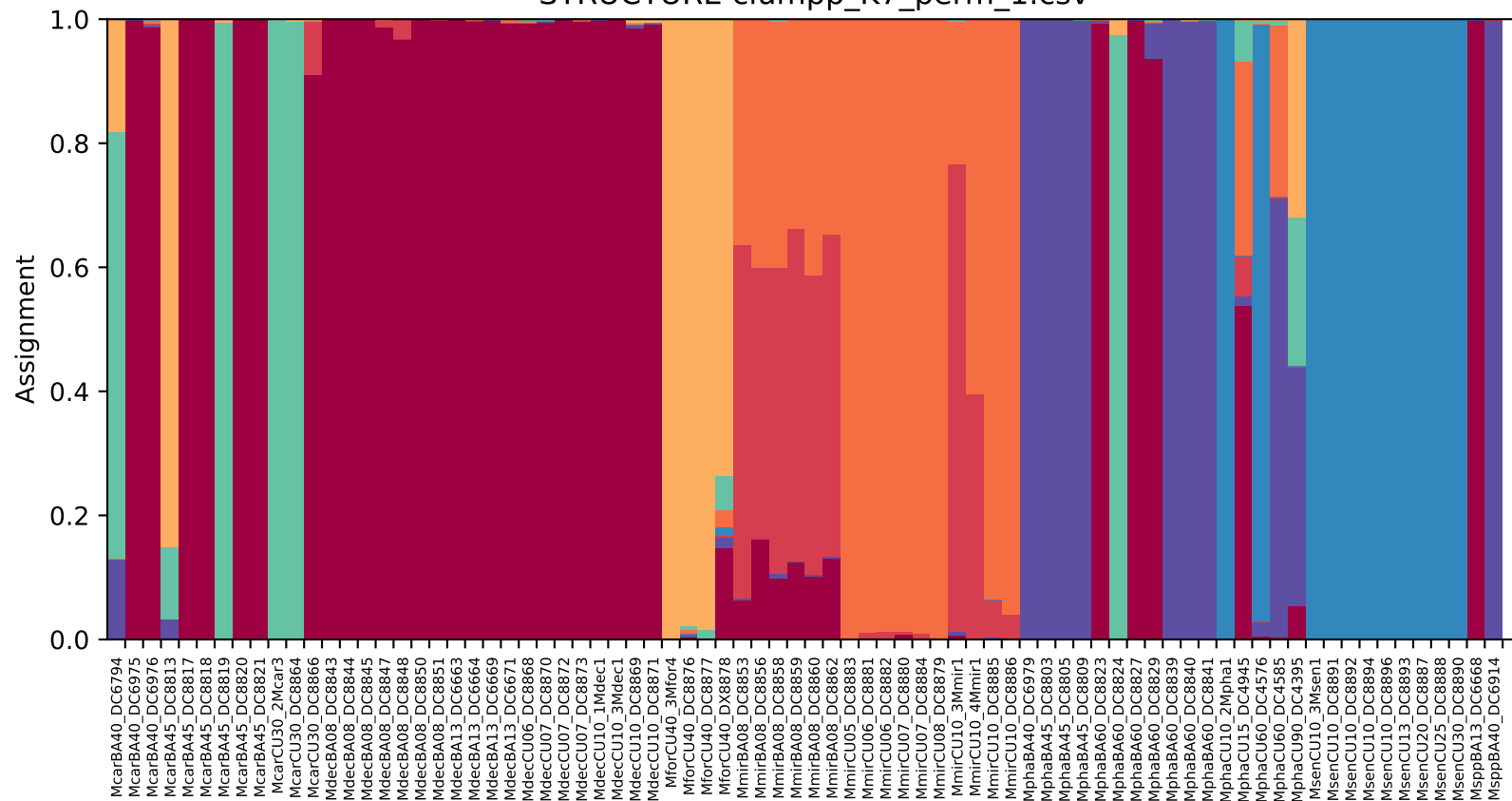
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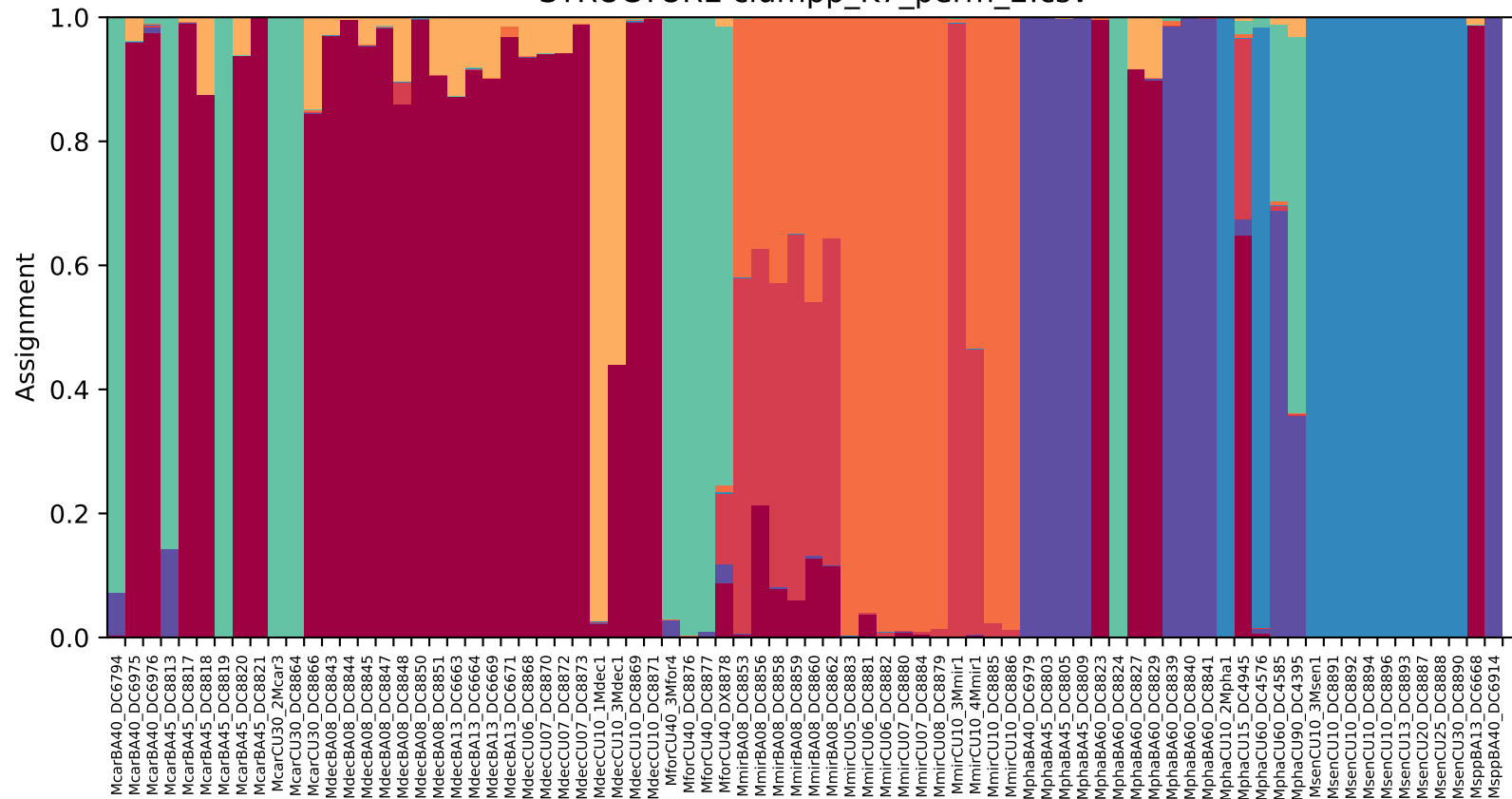
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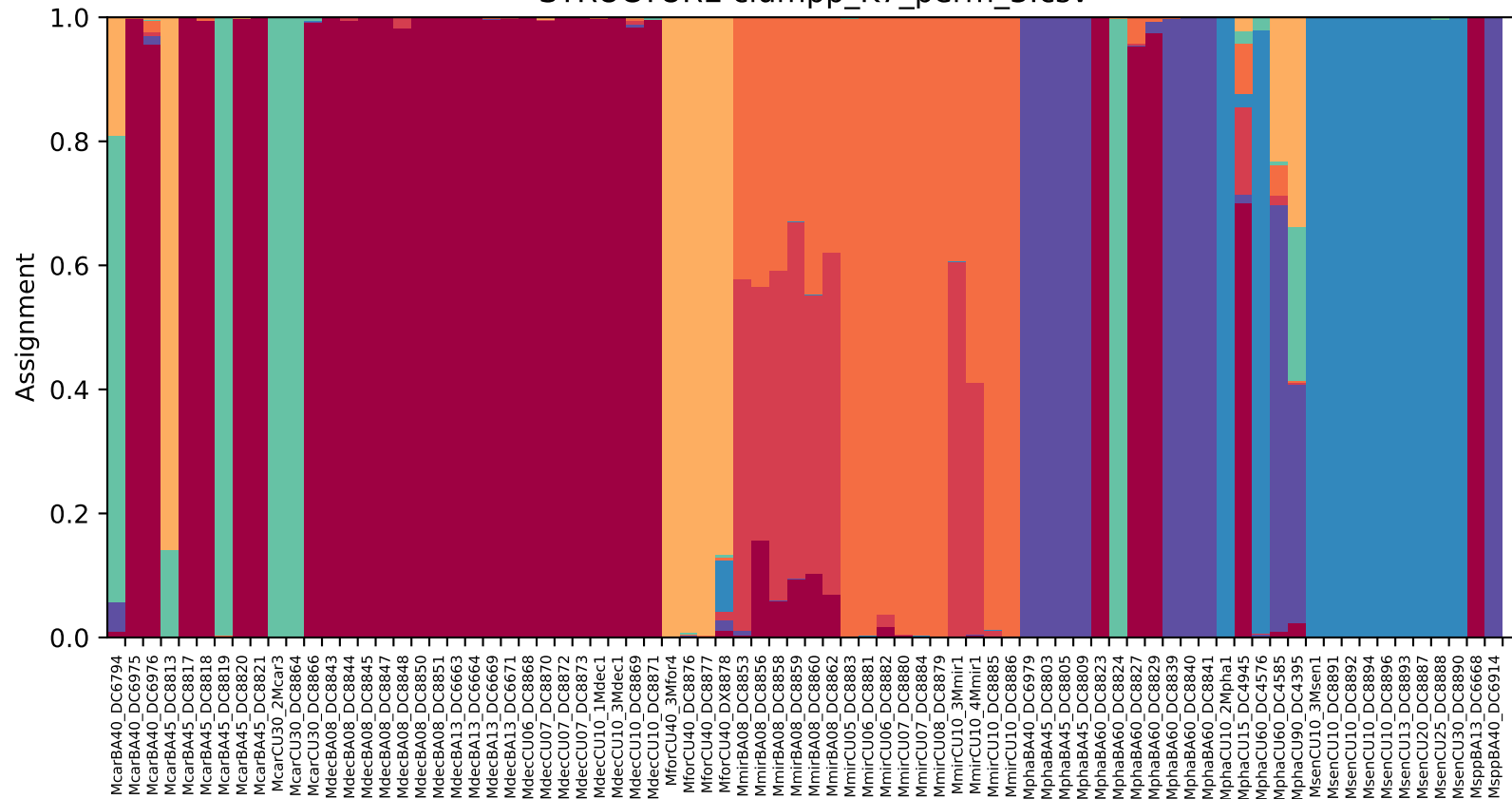
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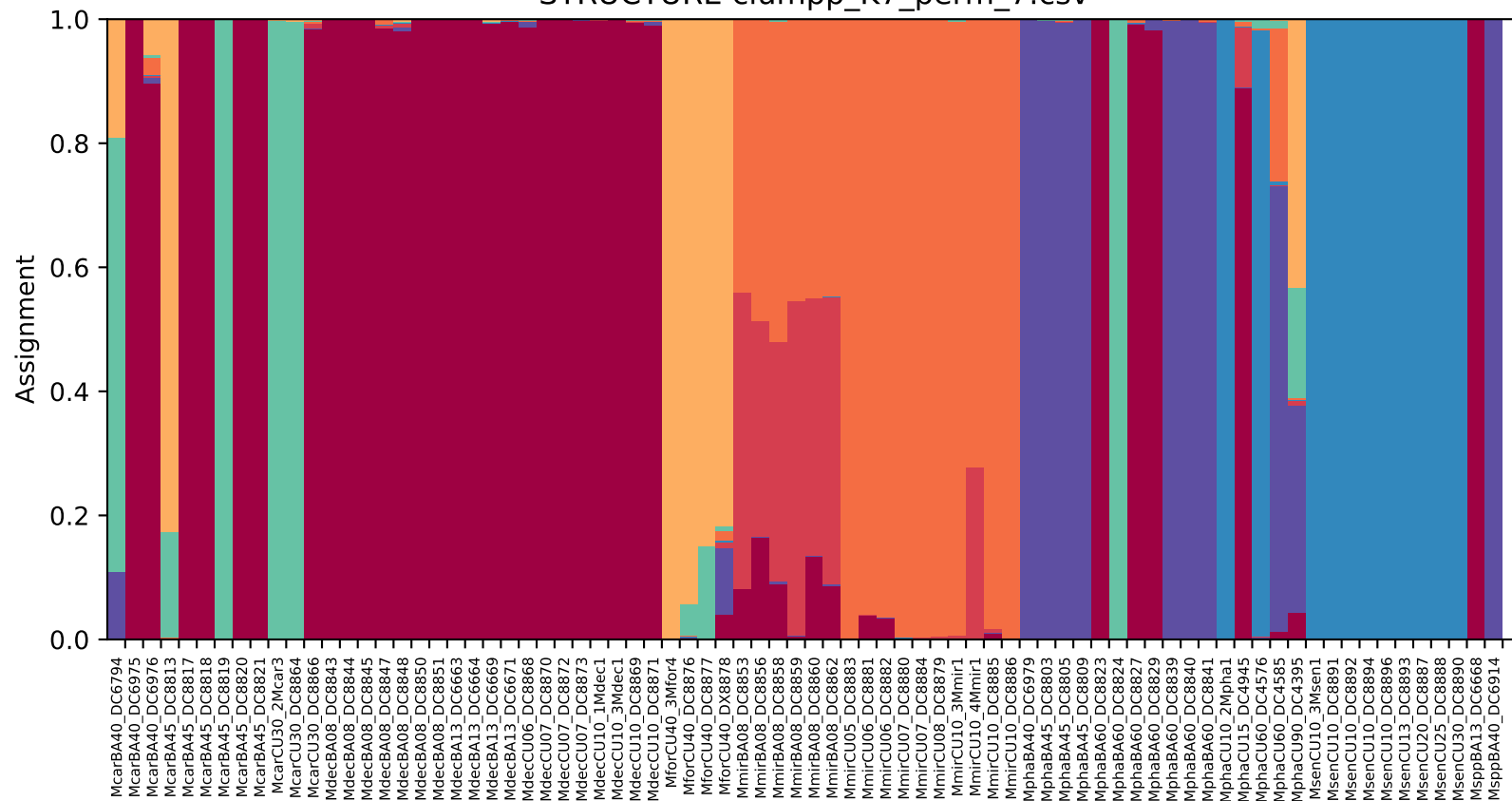
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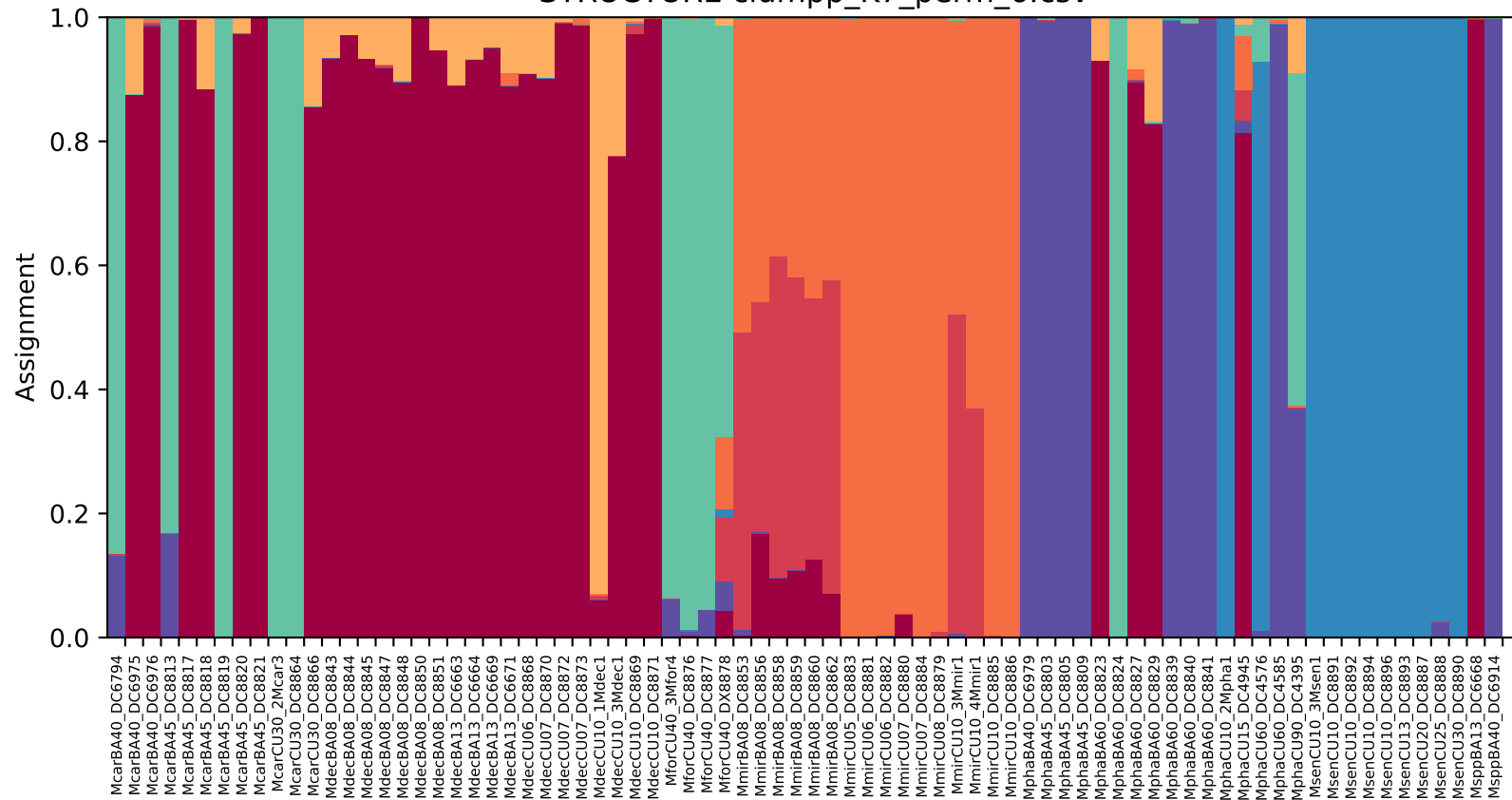
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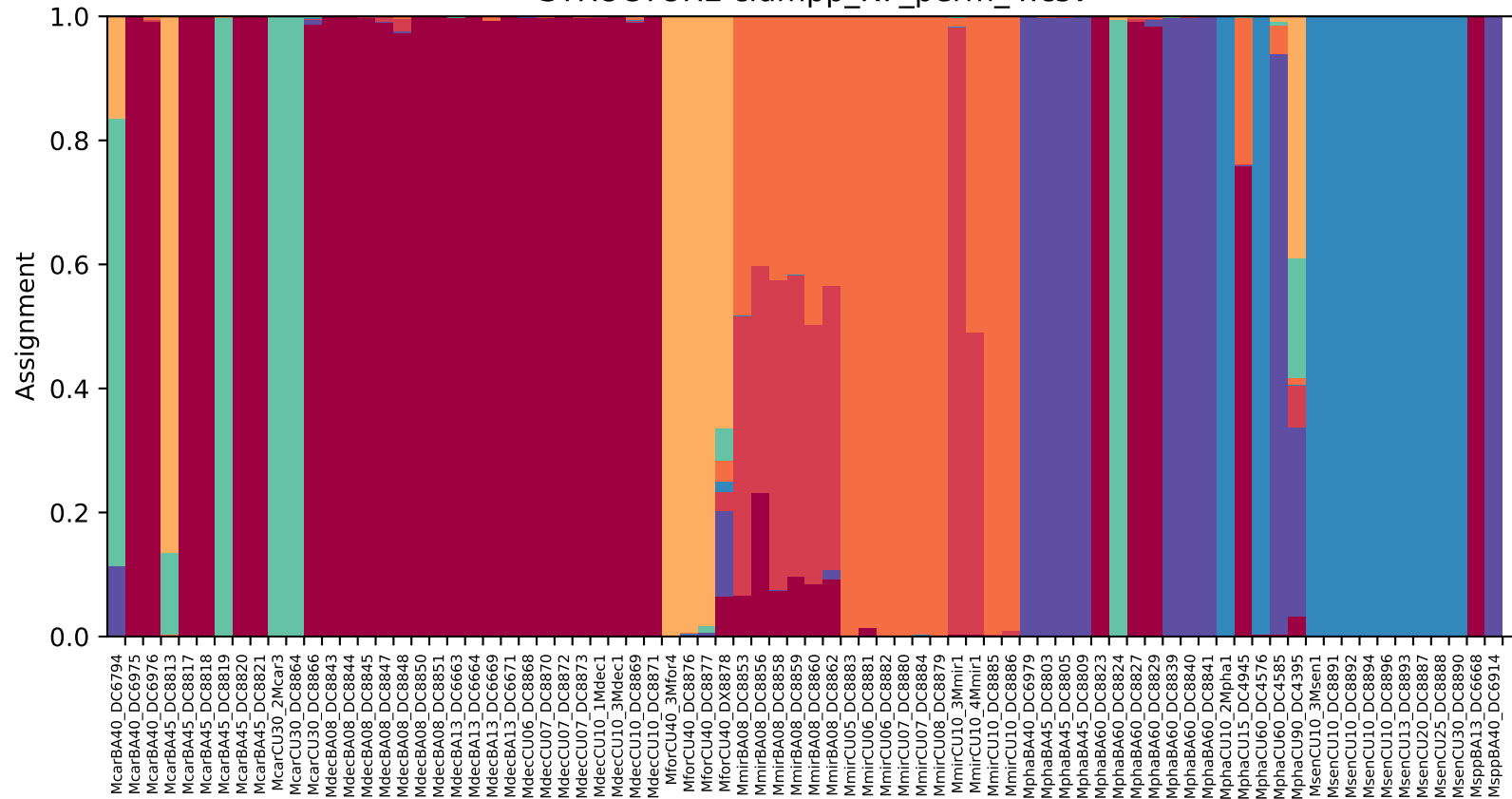
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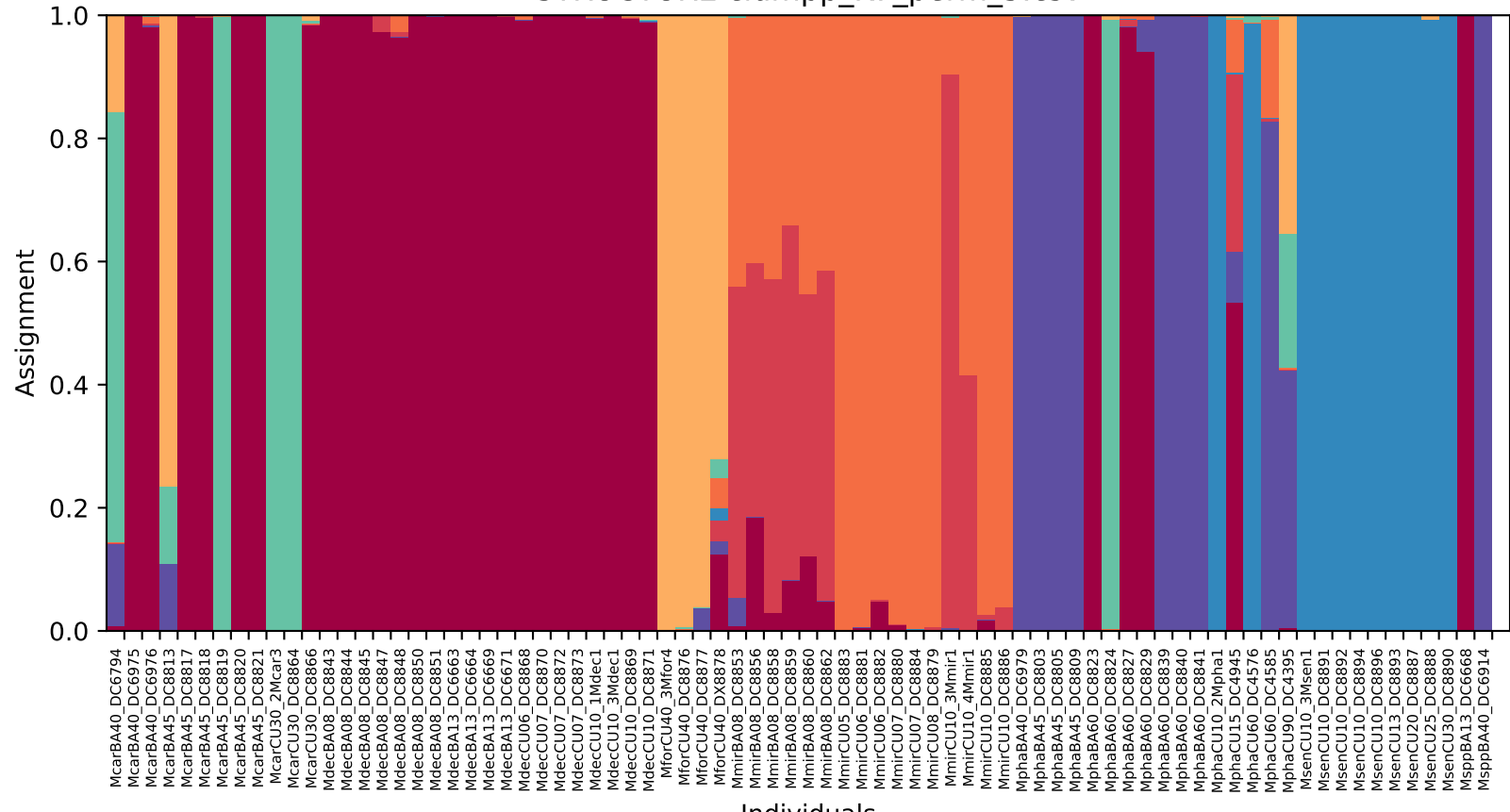
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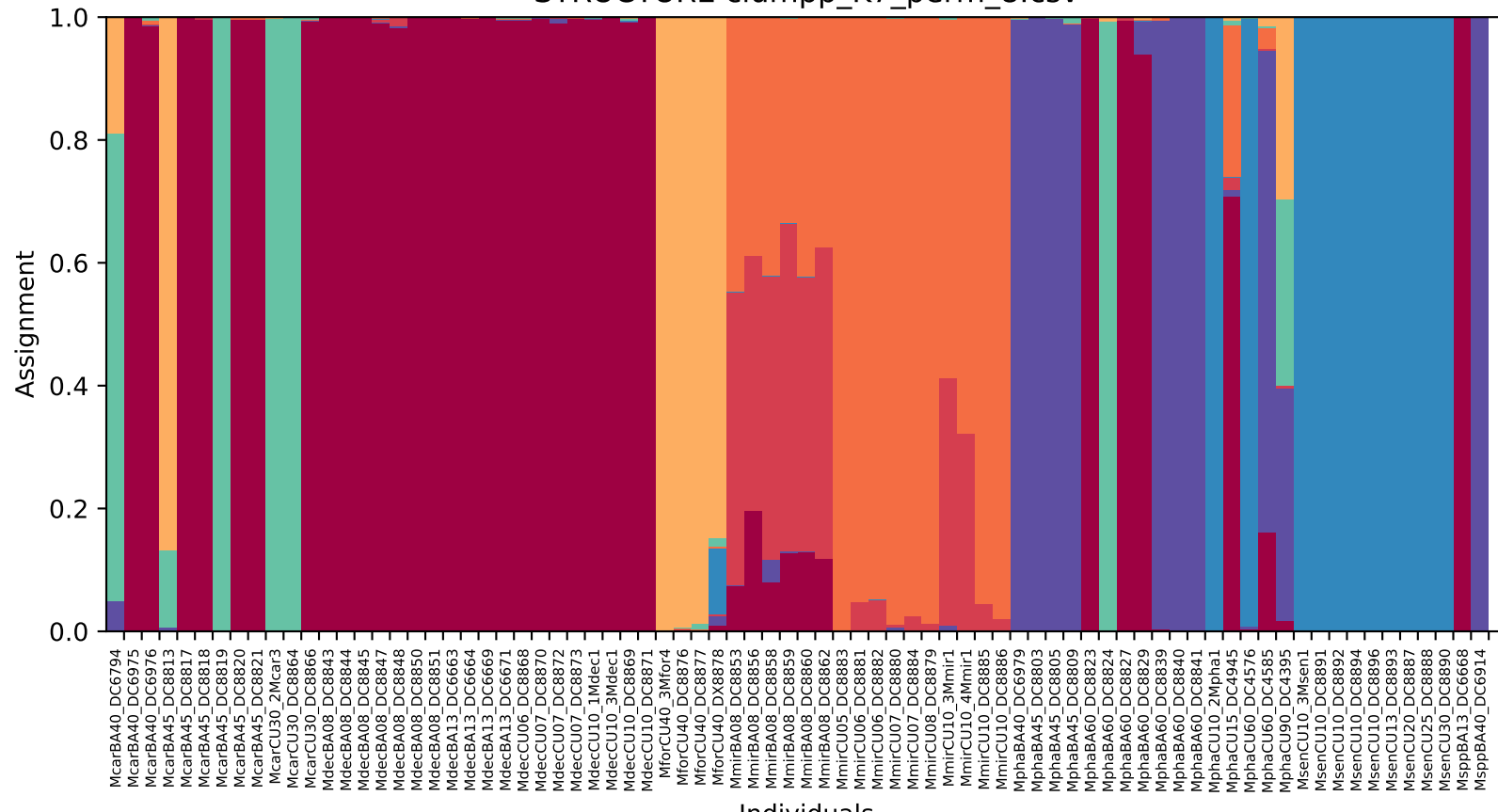
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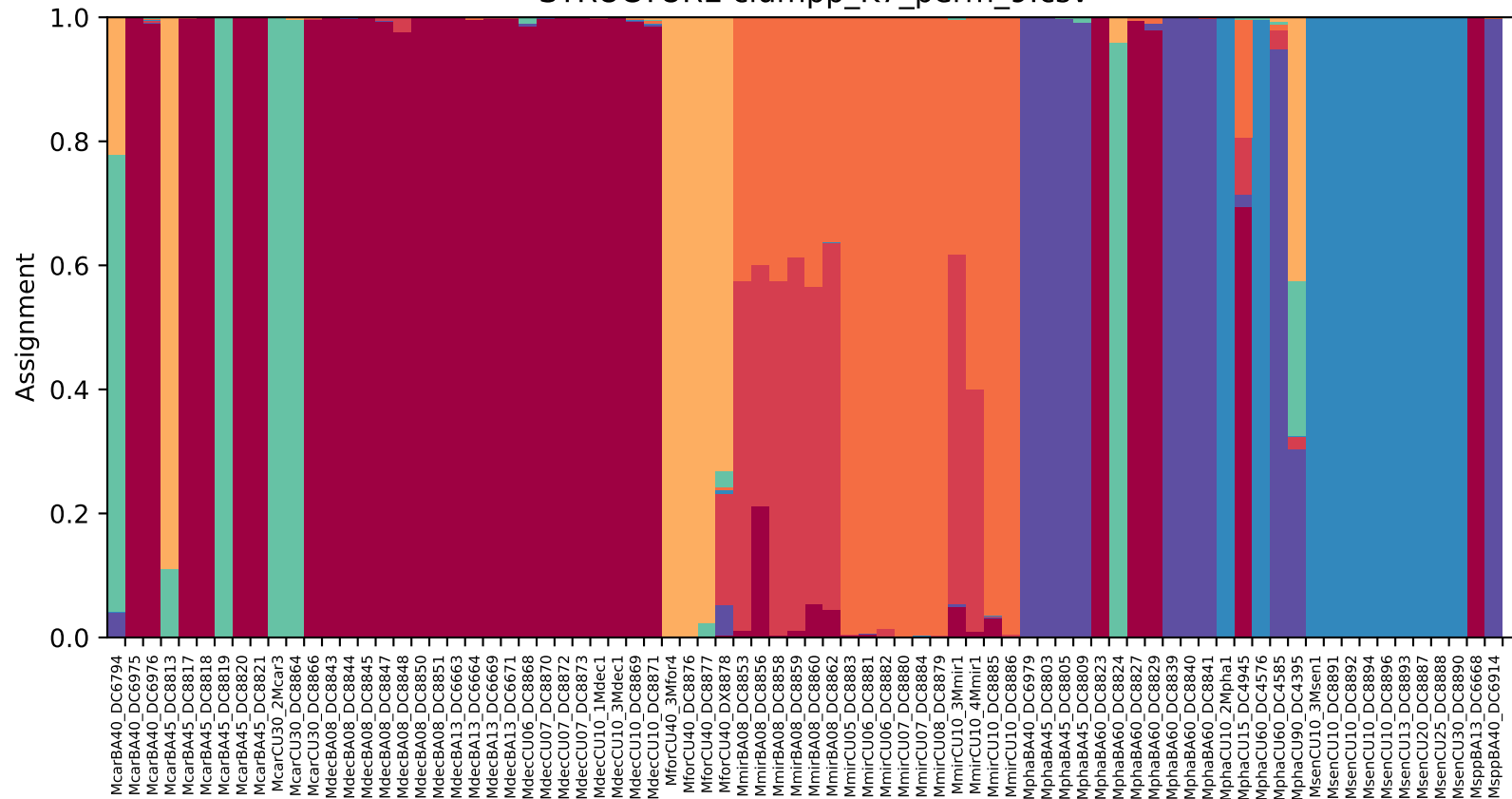
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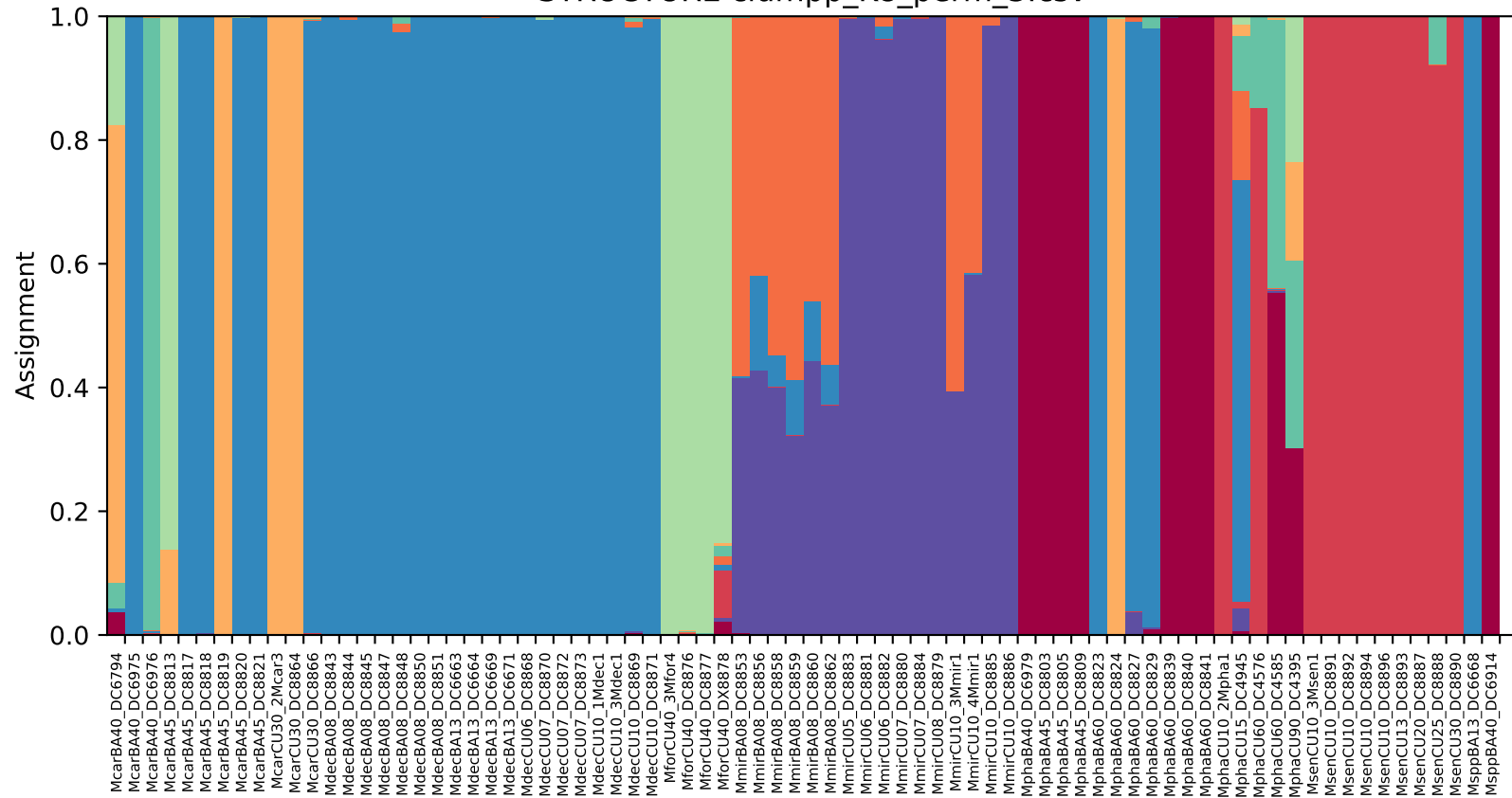
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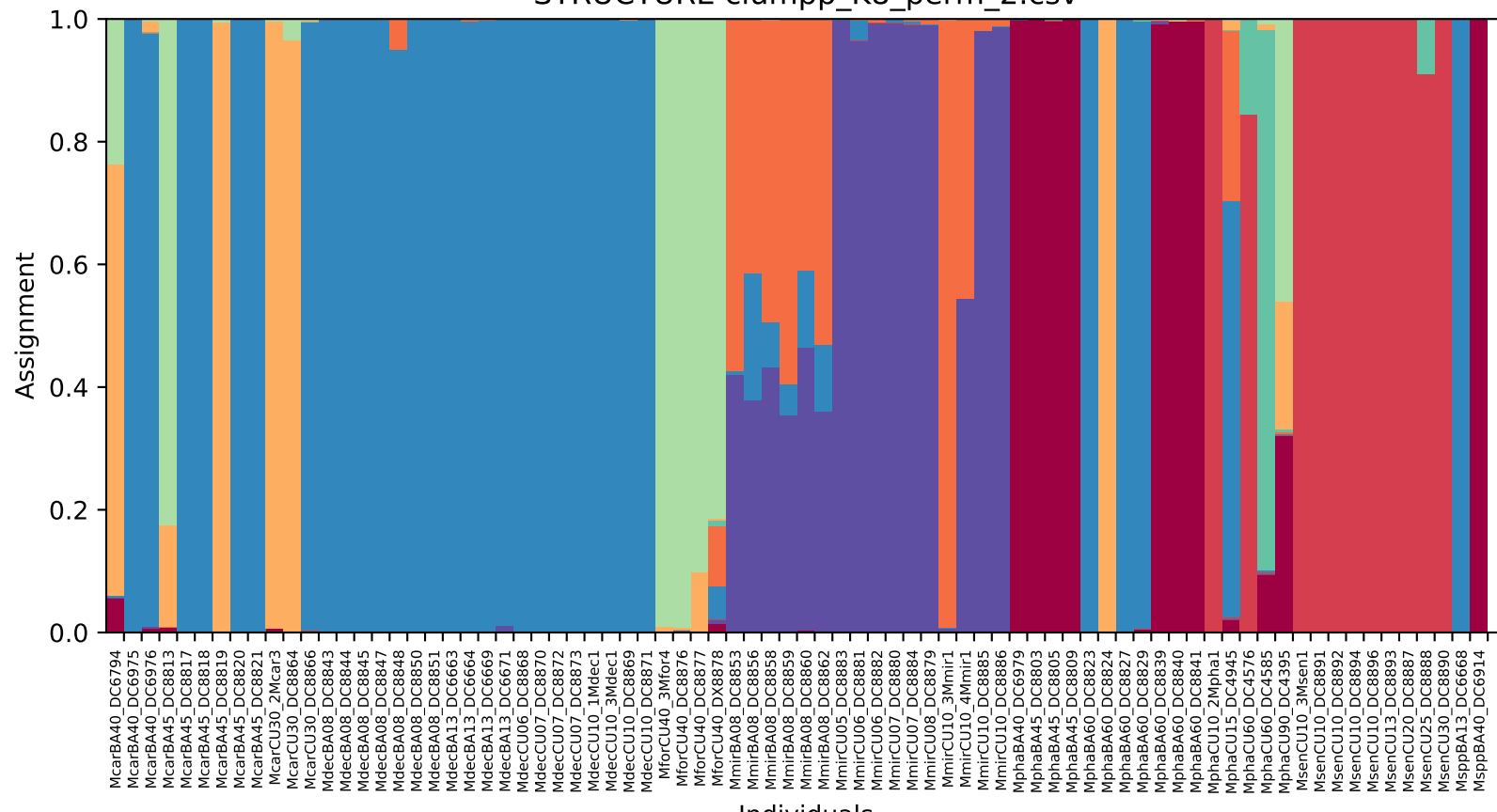
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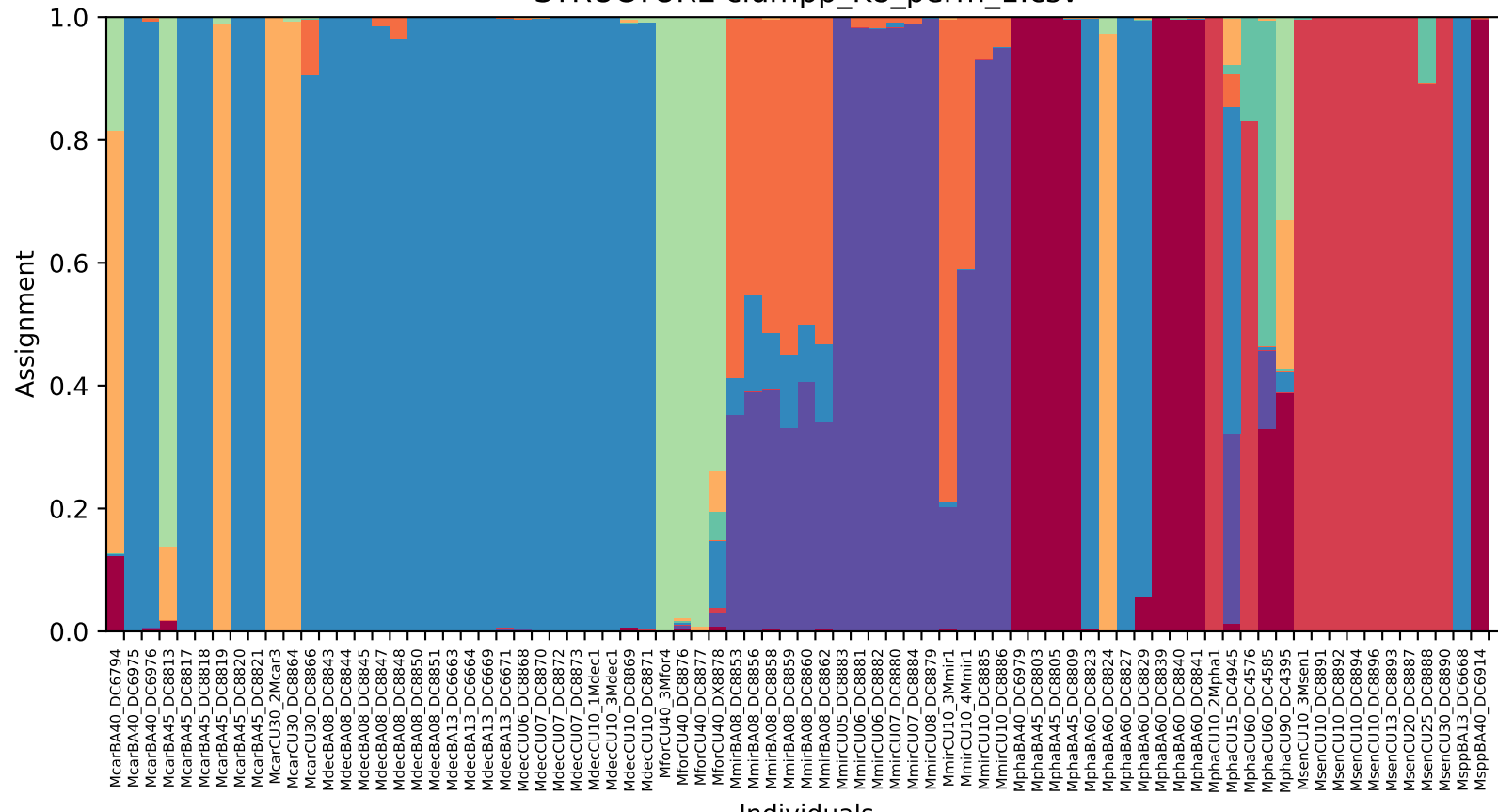
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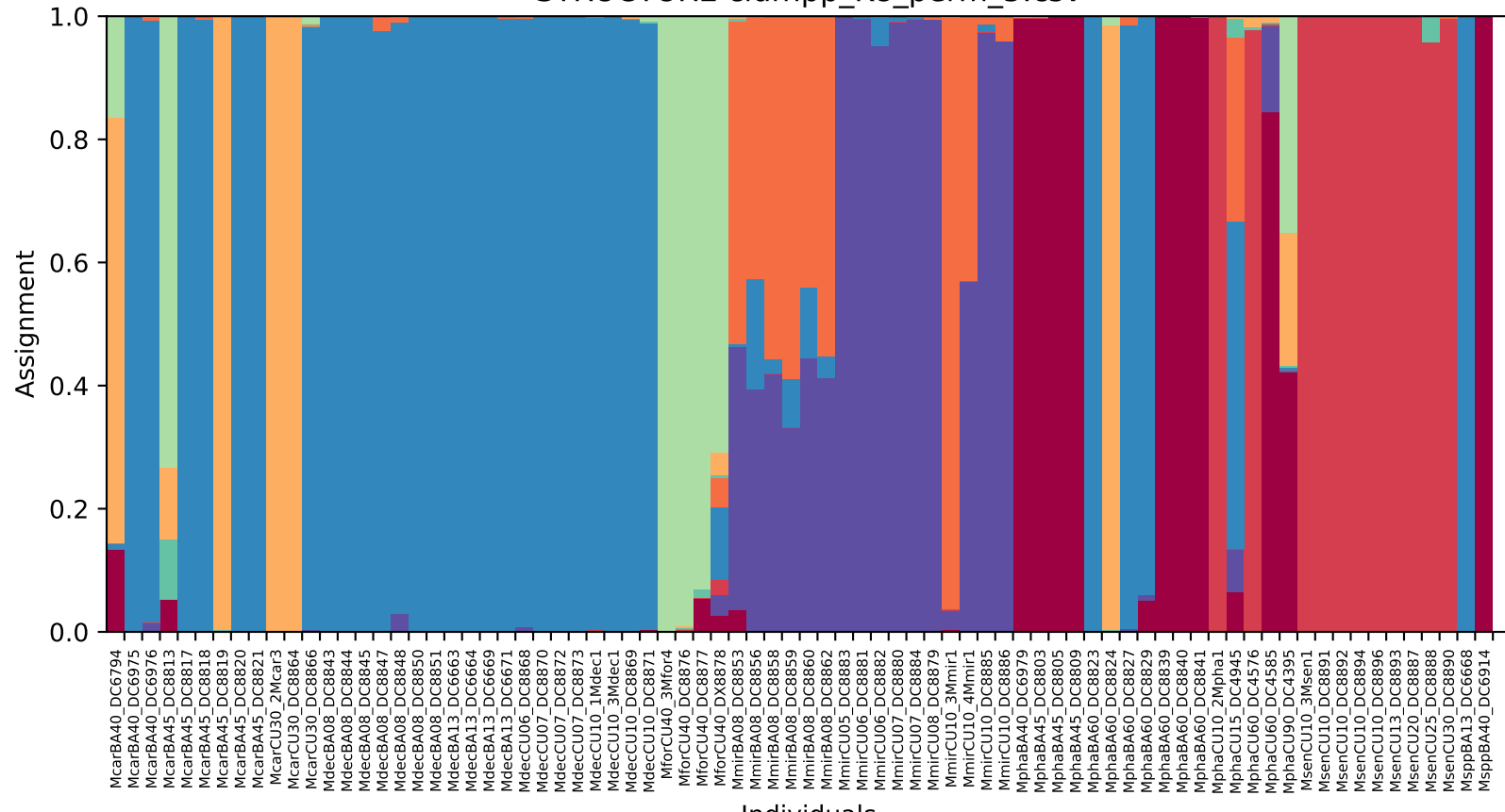
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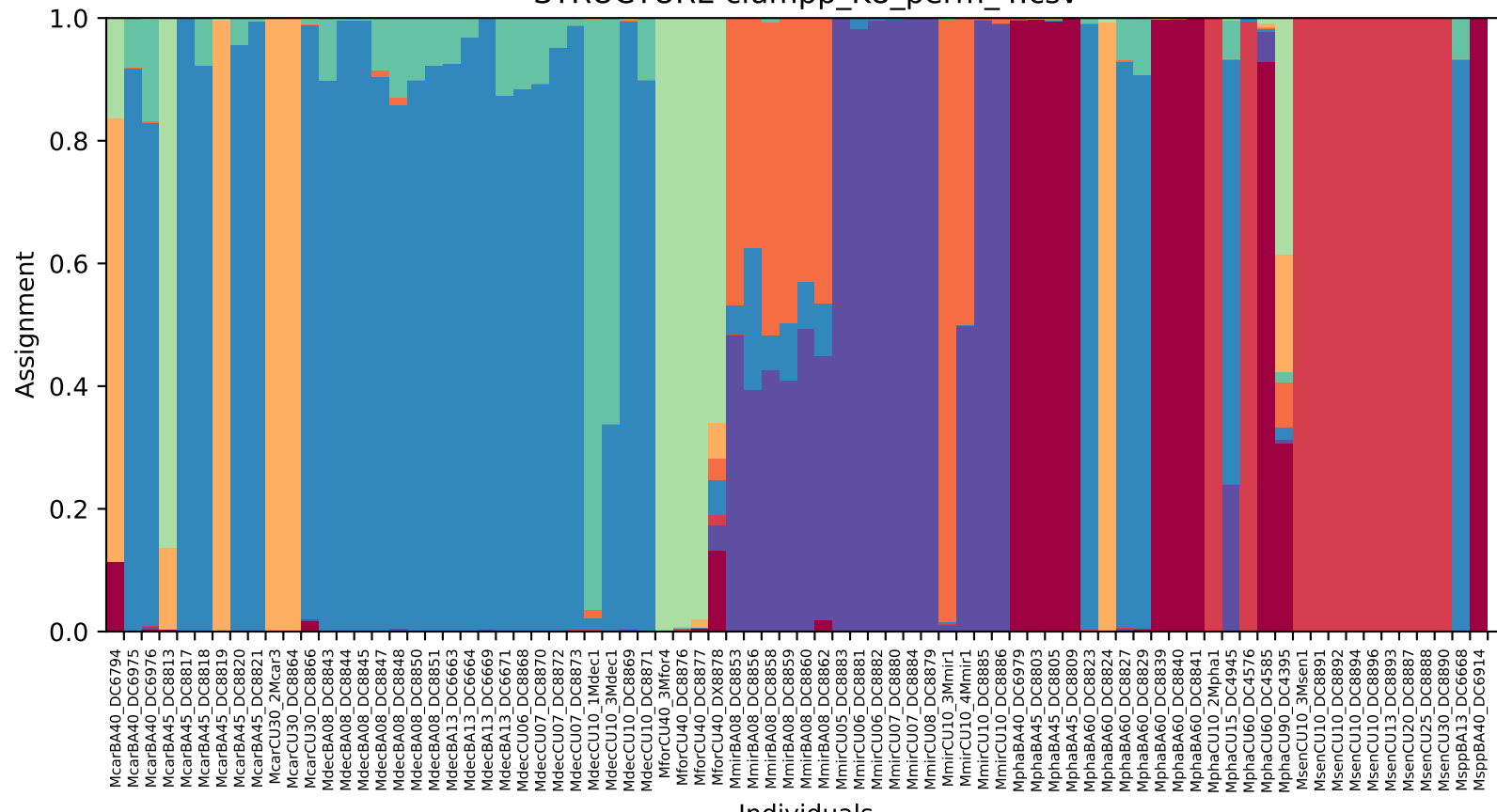
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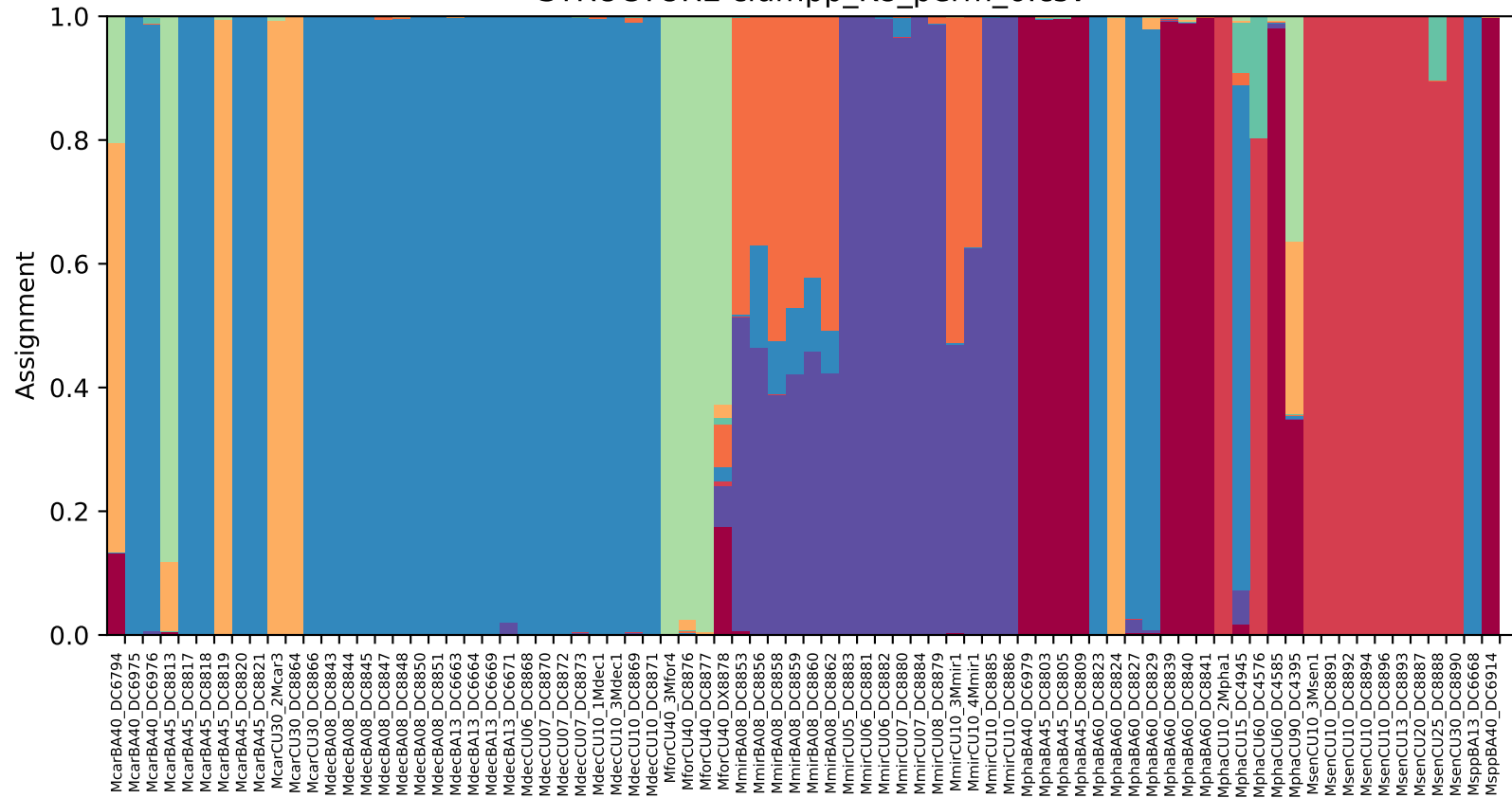
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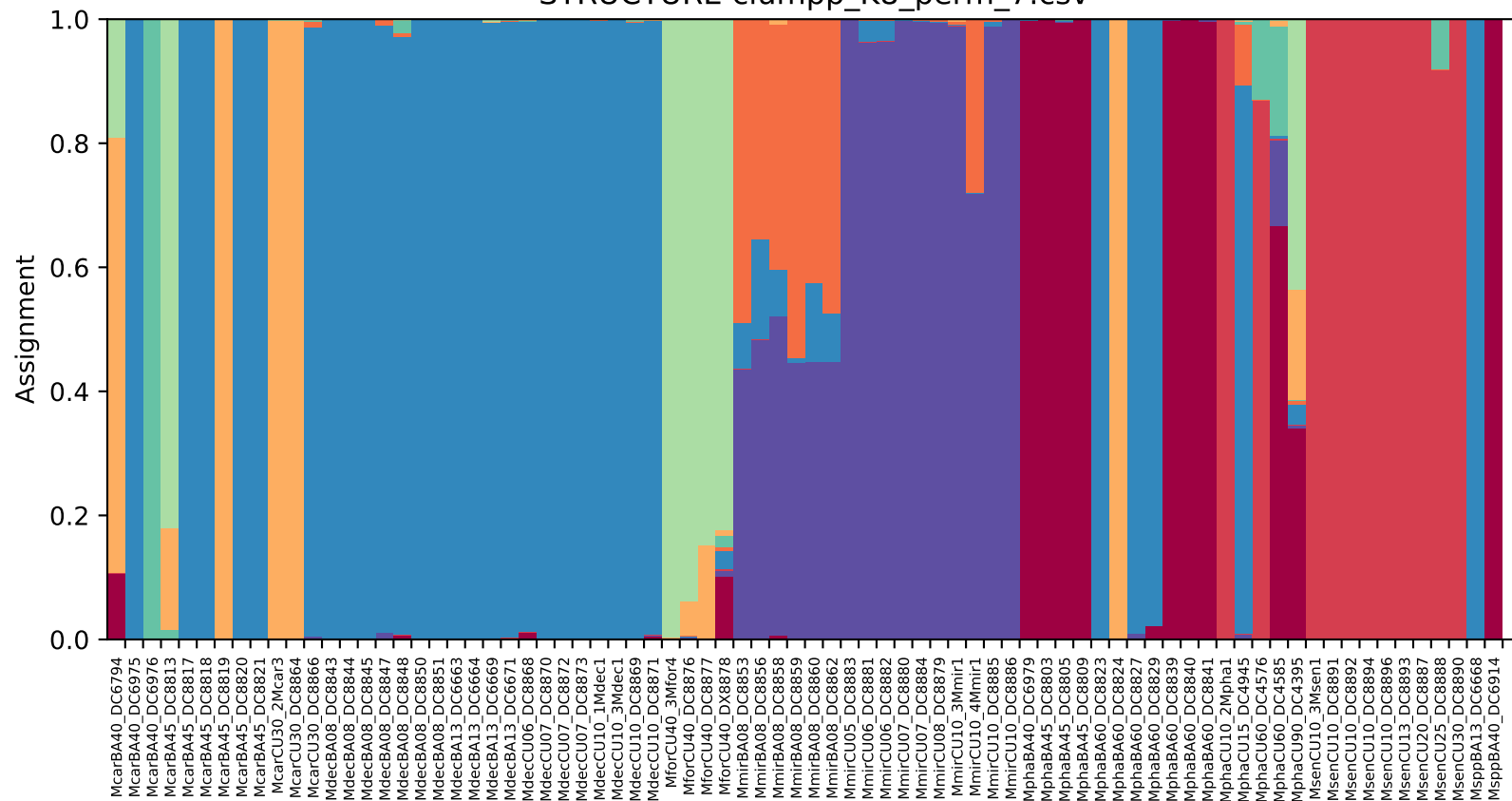
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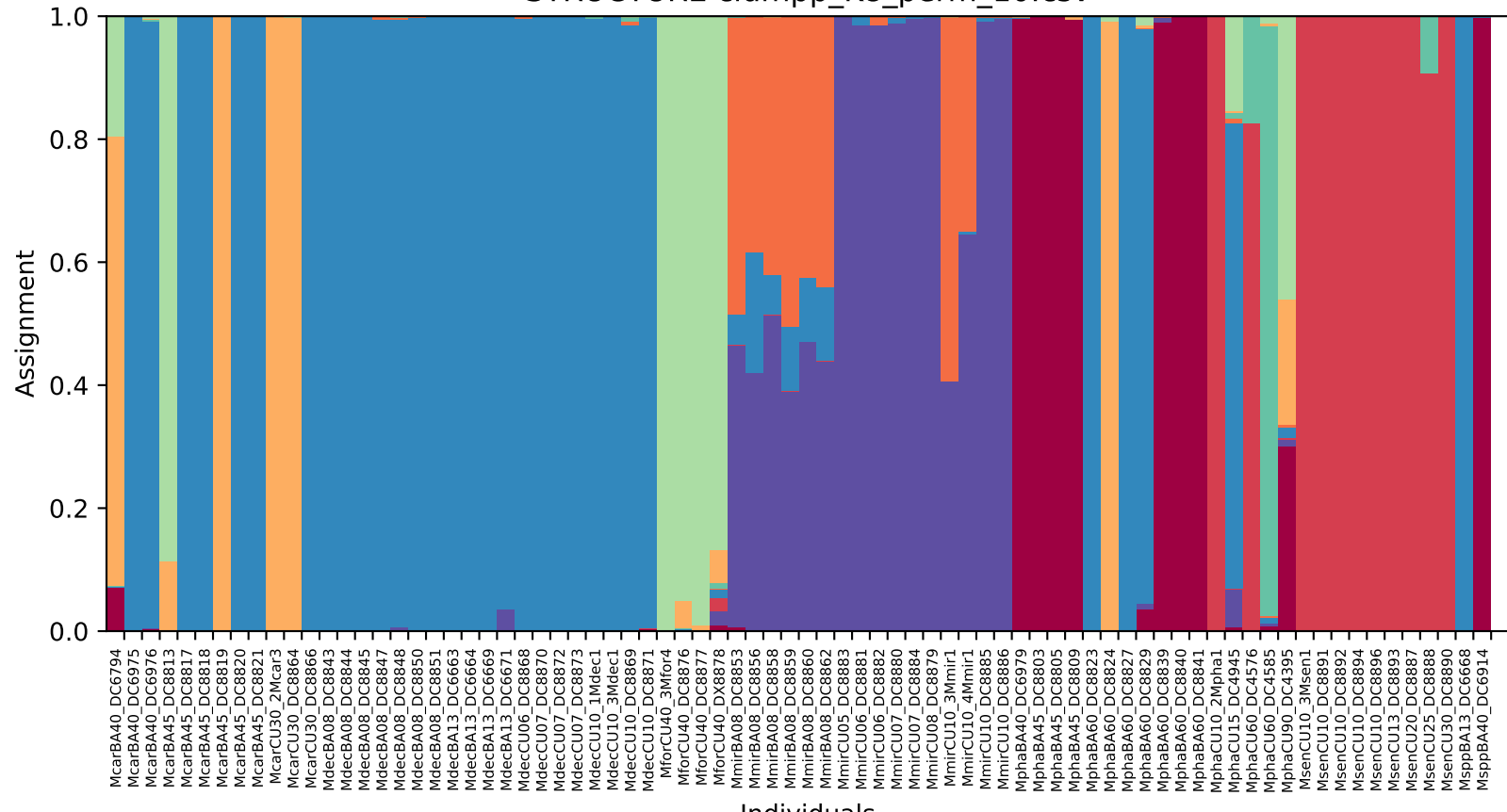
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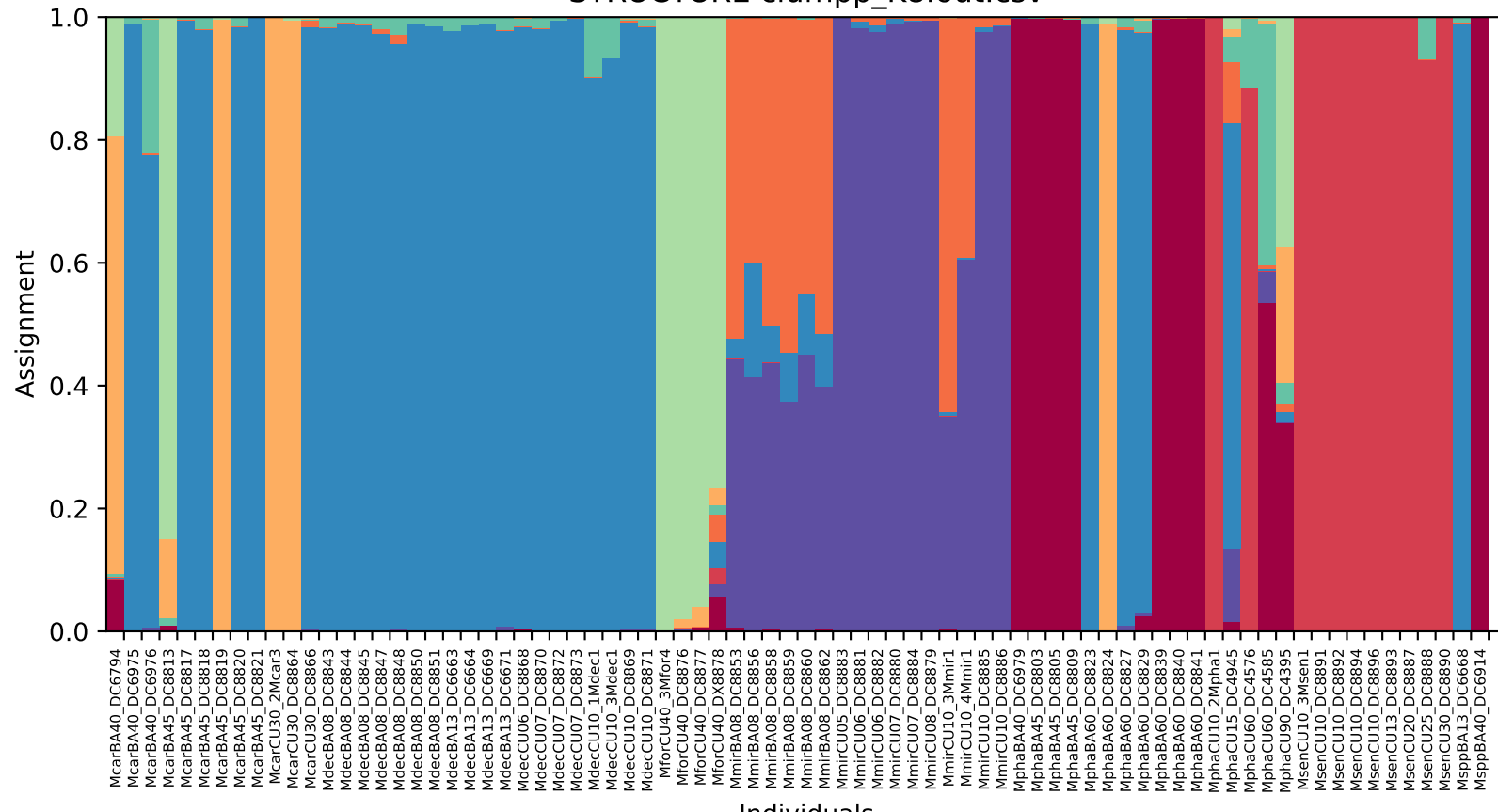
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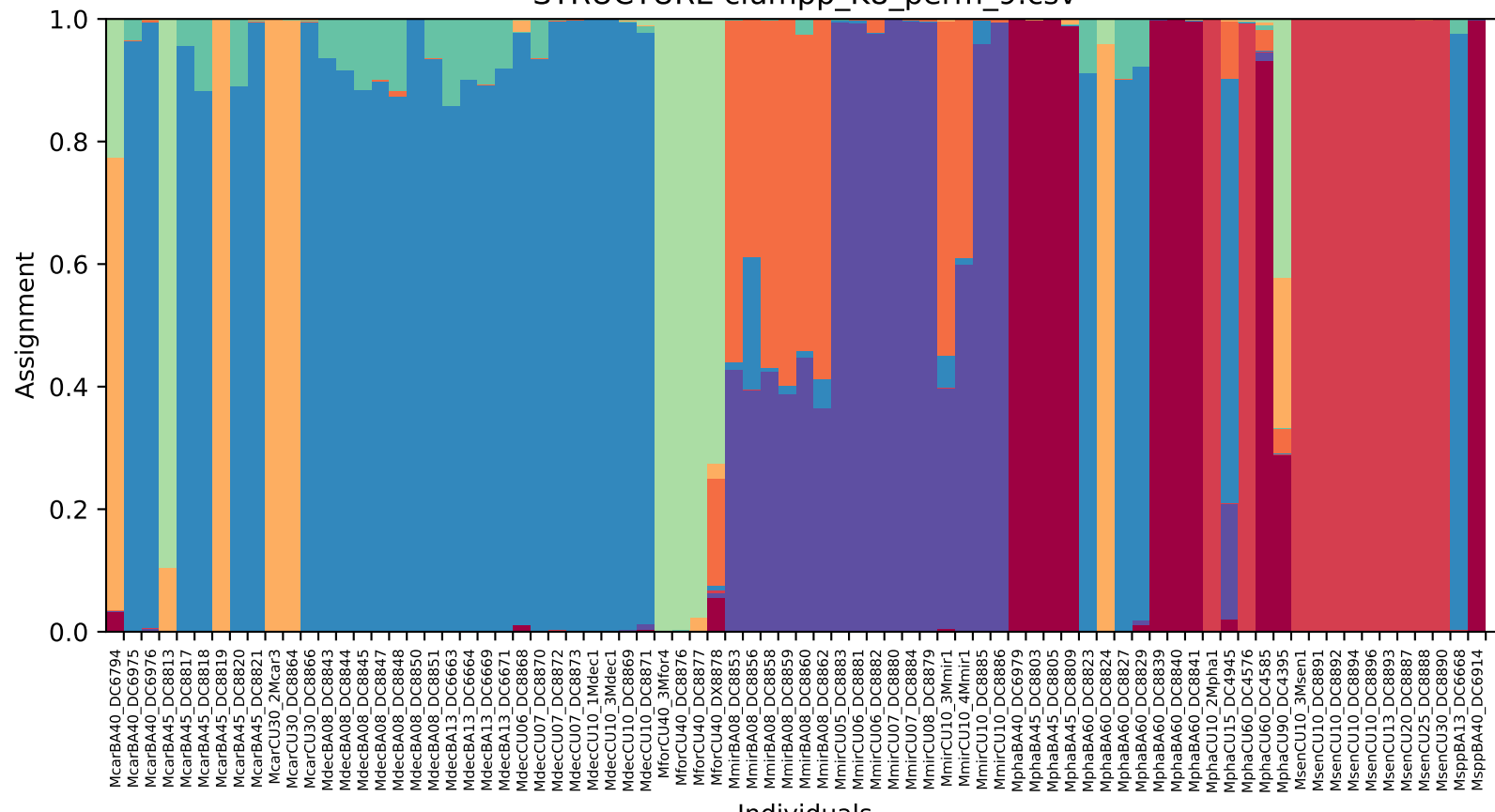
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STRUCTURE clumppp_K8.out.csv



STRUCTURE clump_K8_perm_9.csv



STRUCTURE clumpp_K8_perm_8.csv

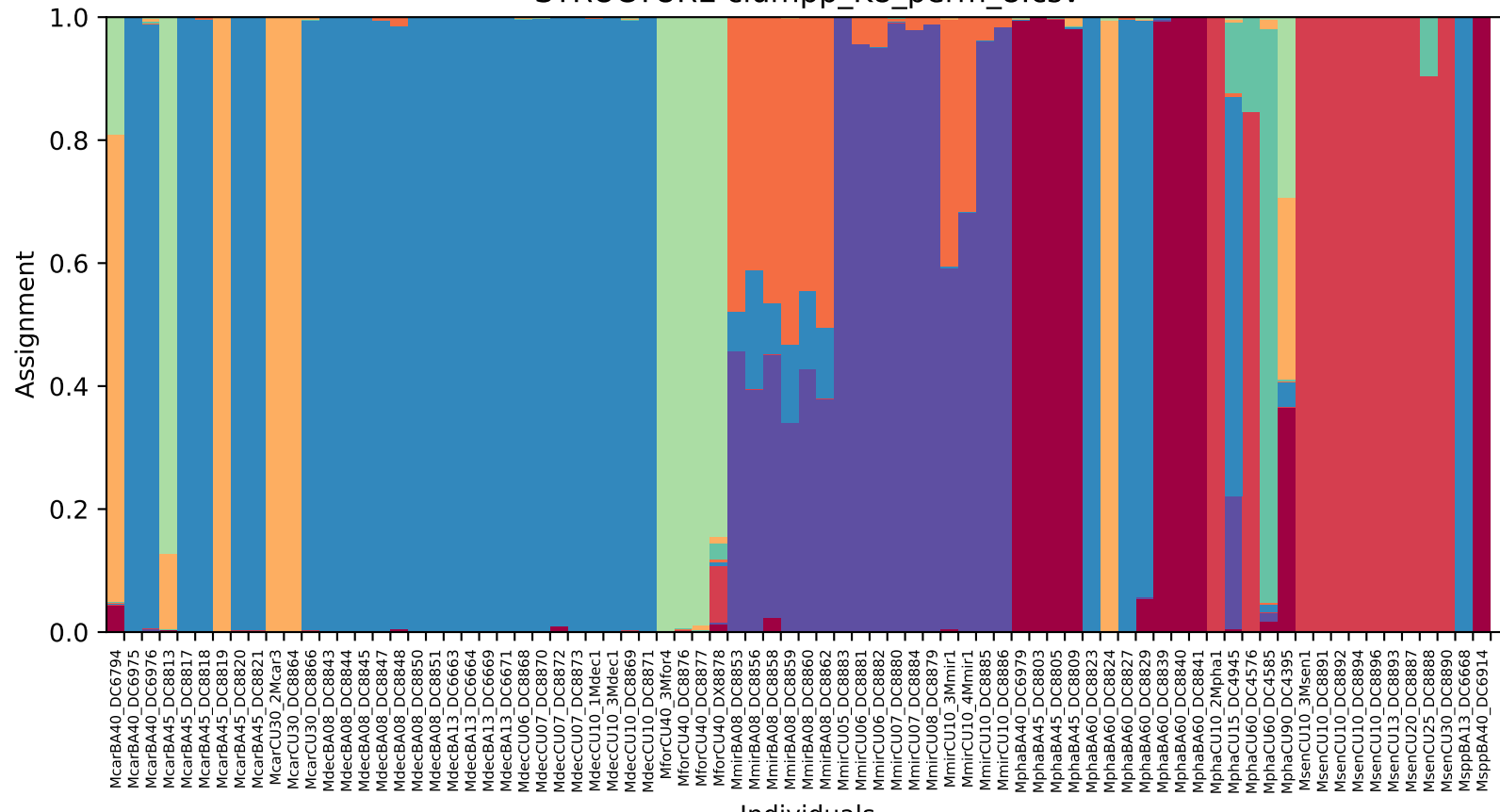
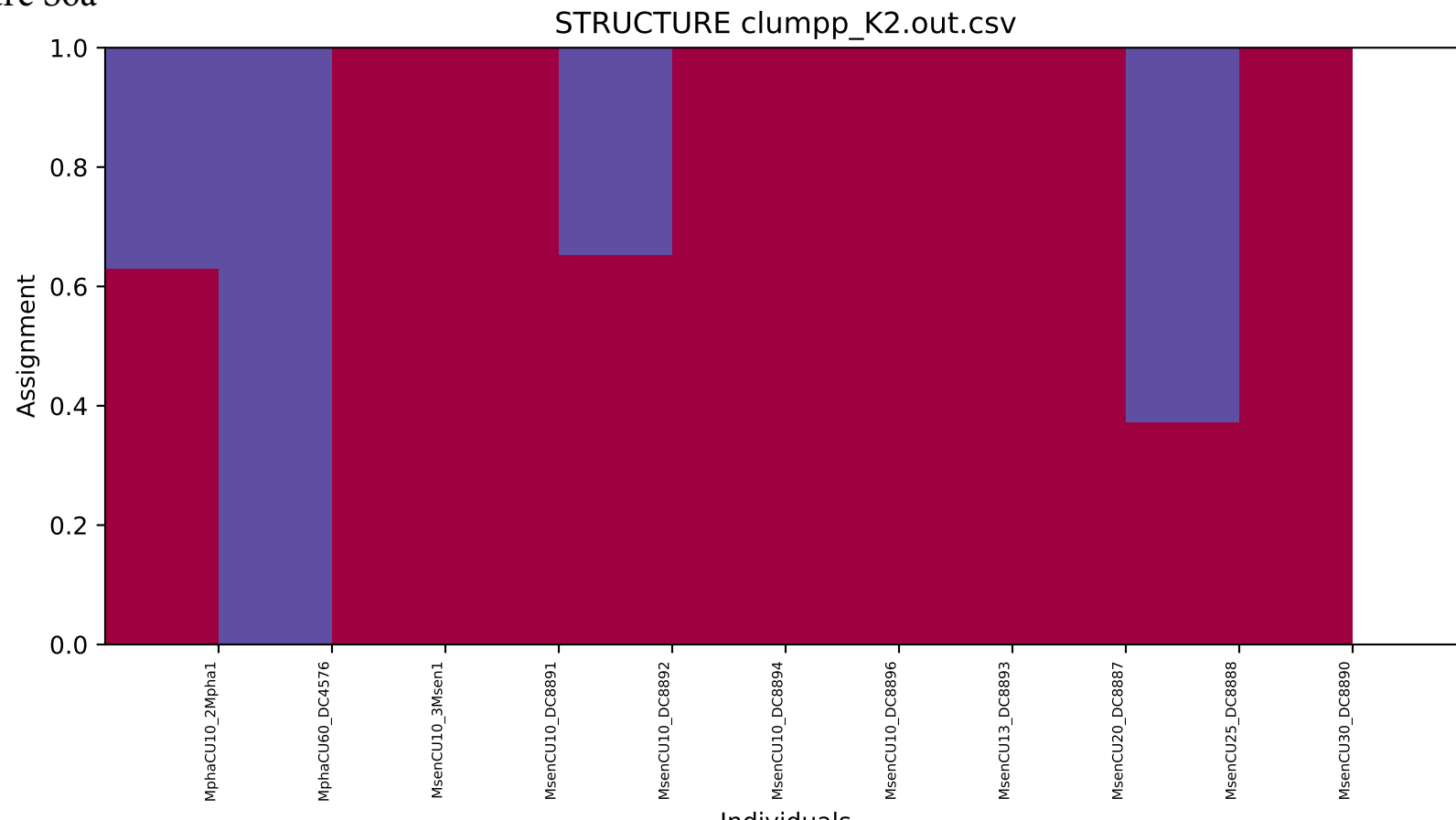
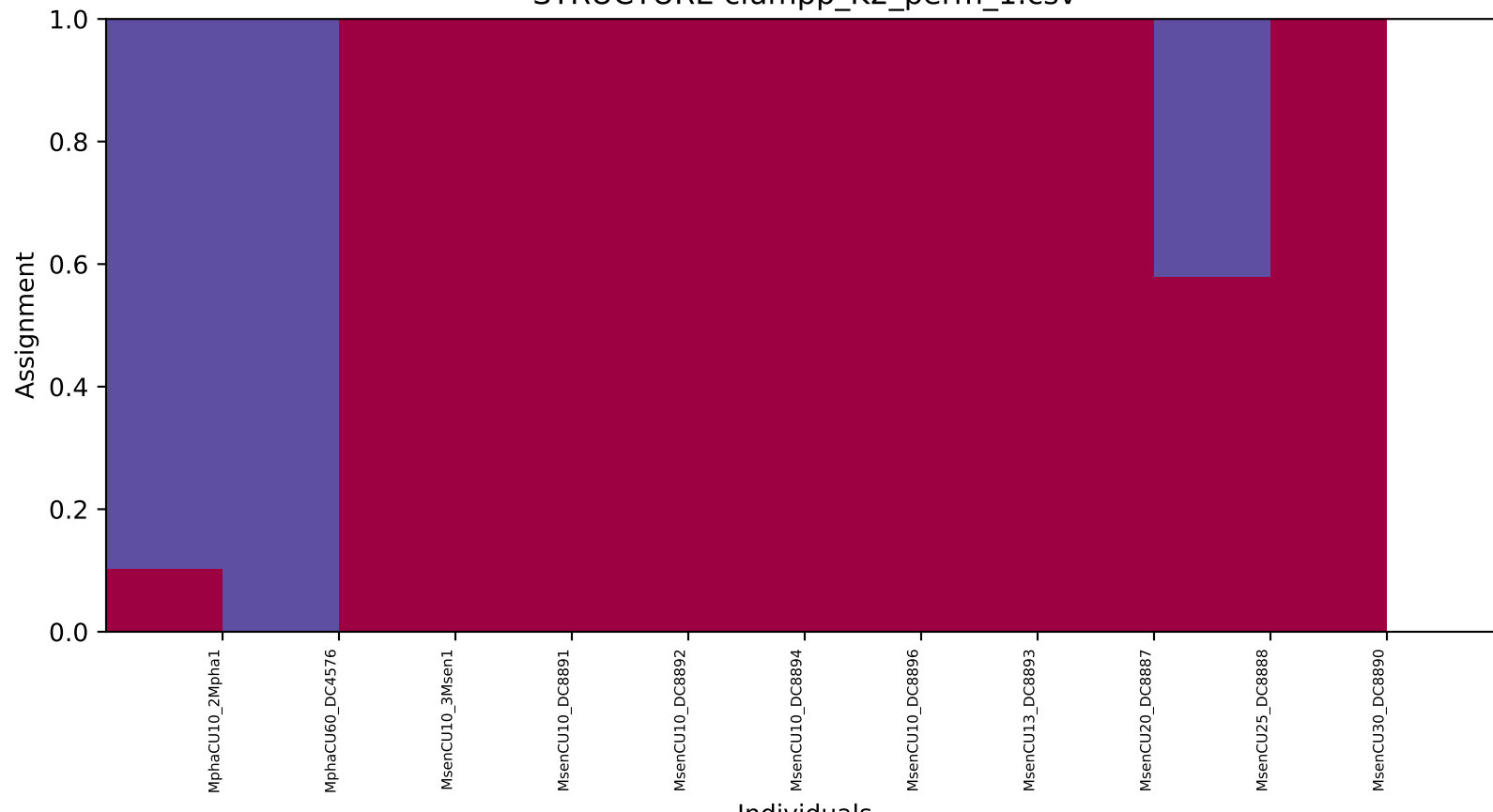


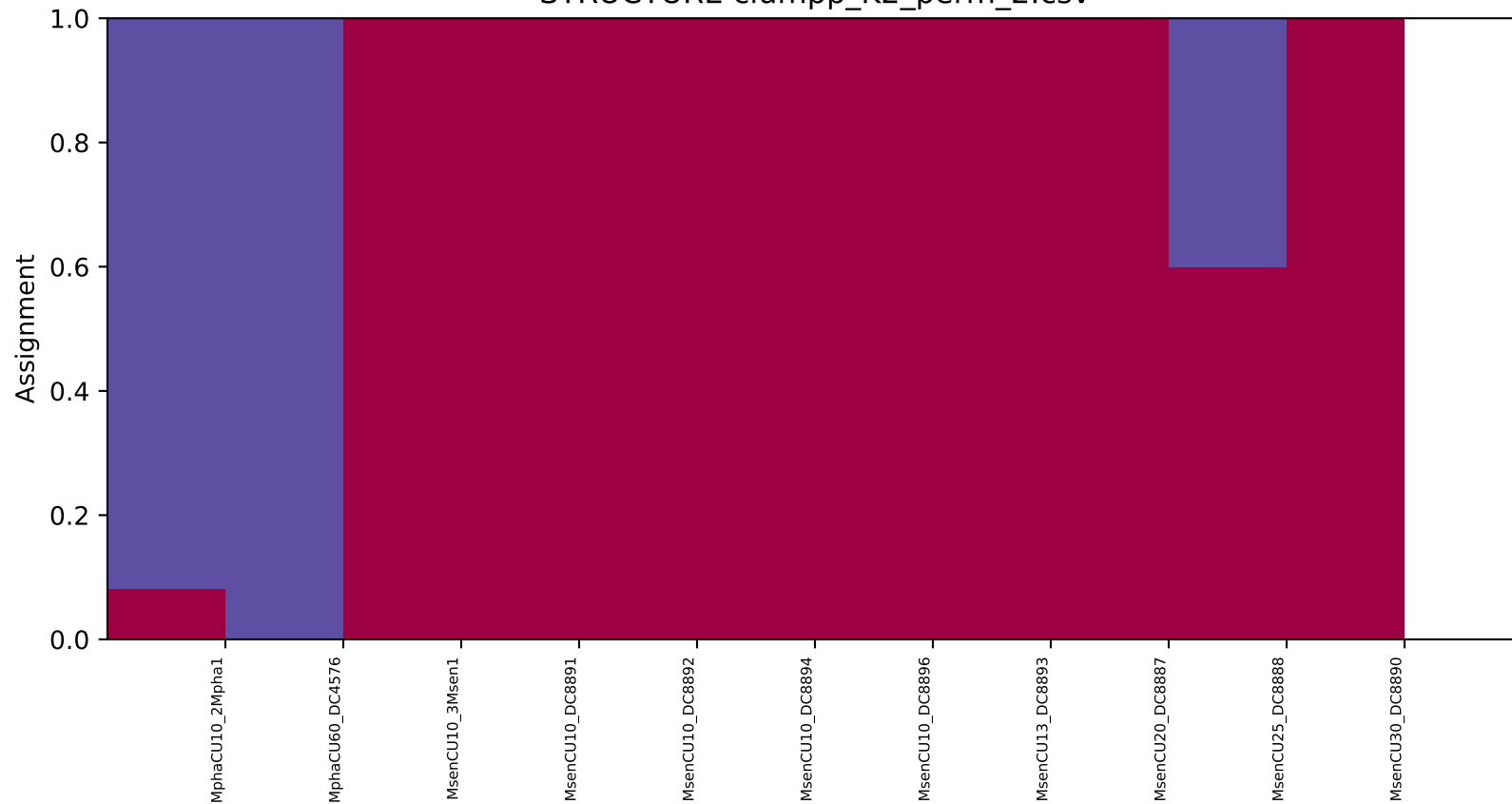
Figure S6a



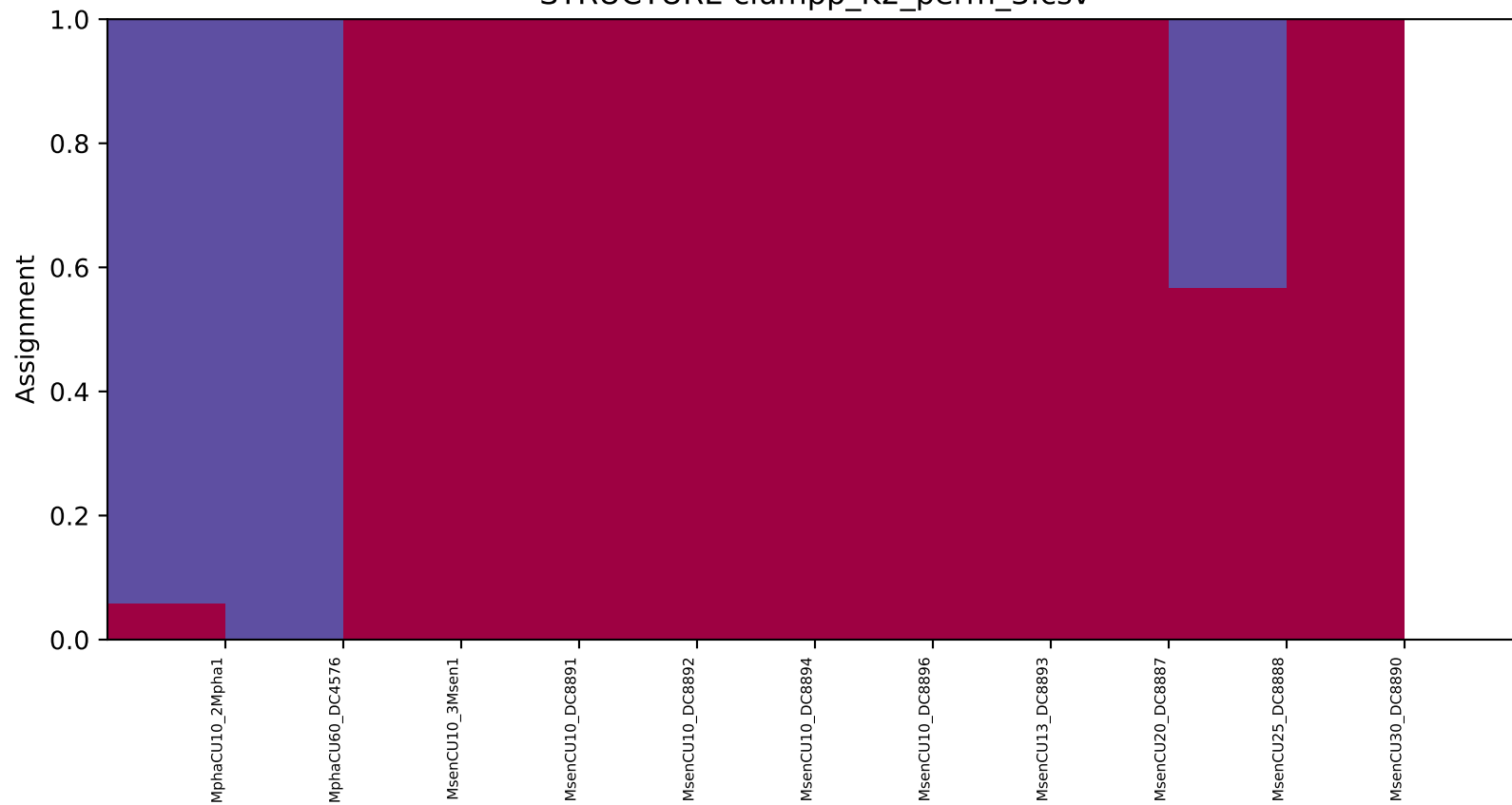
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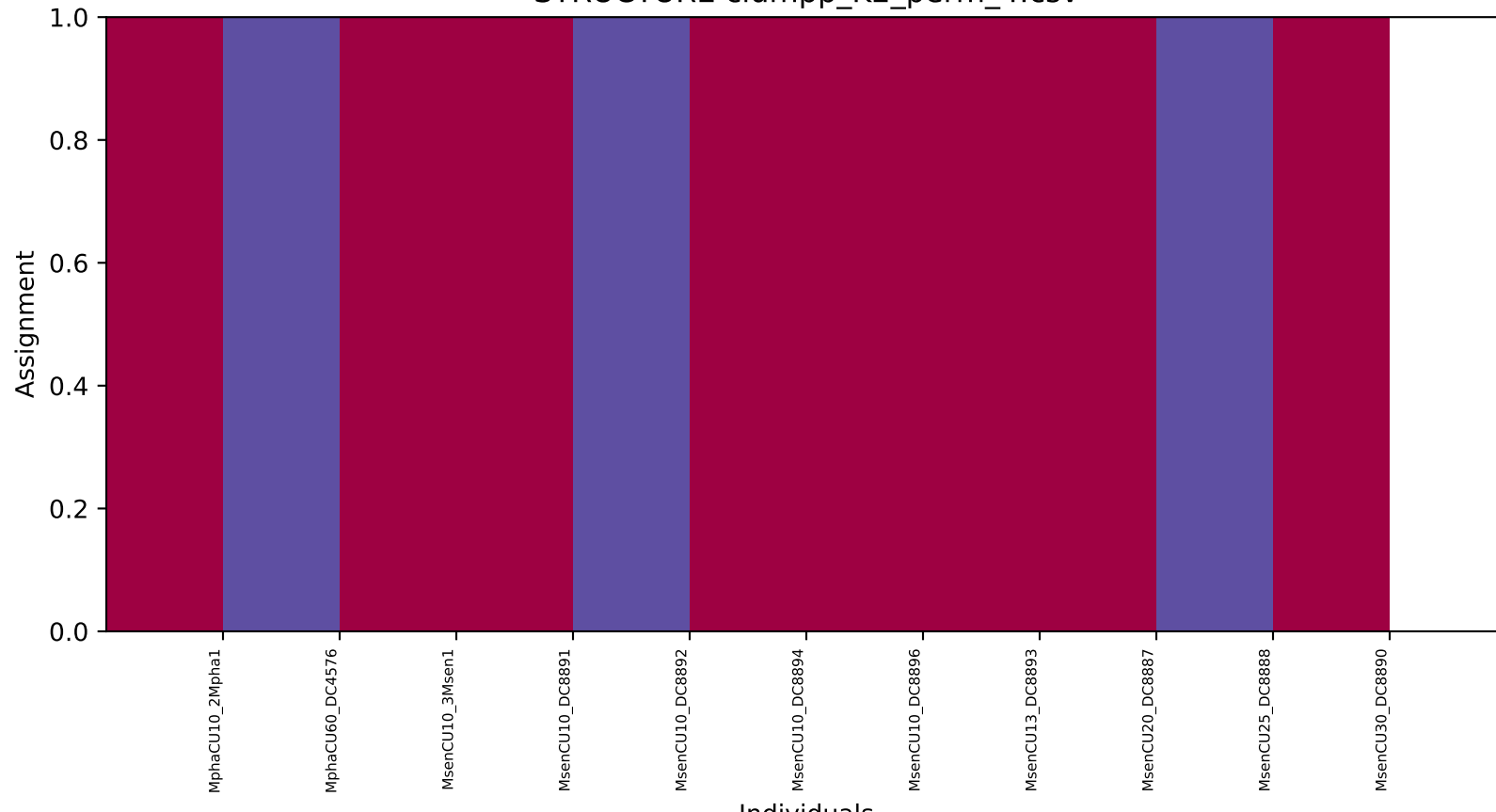
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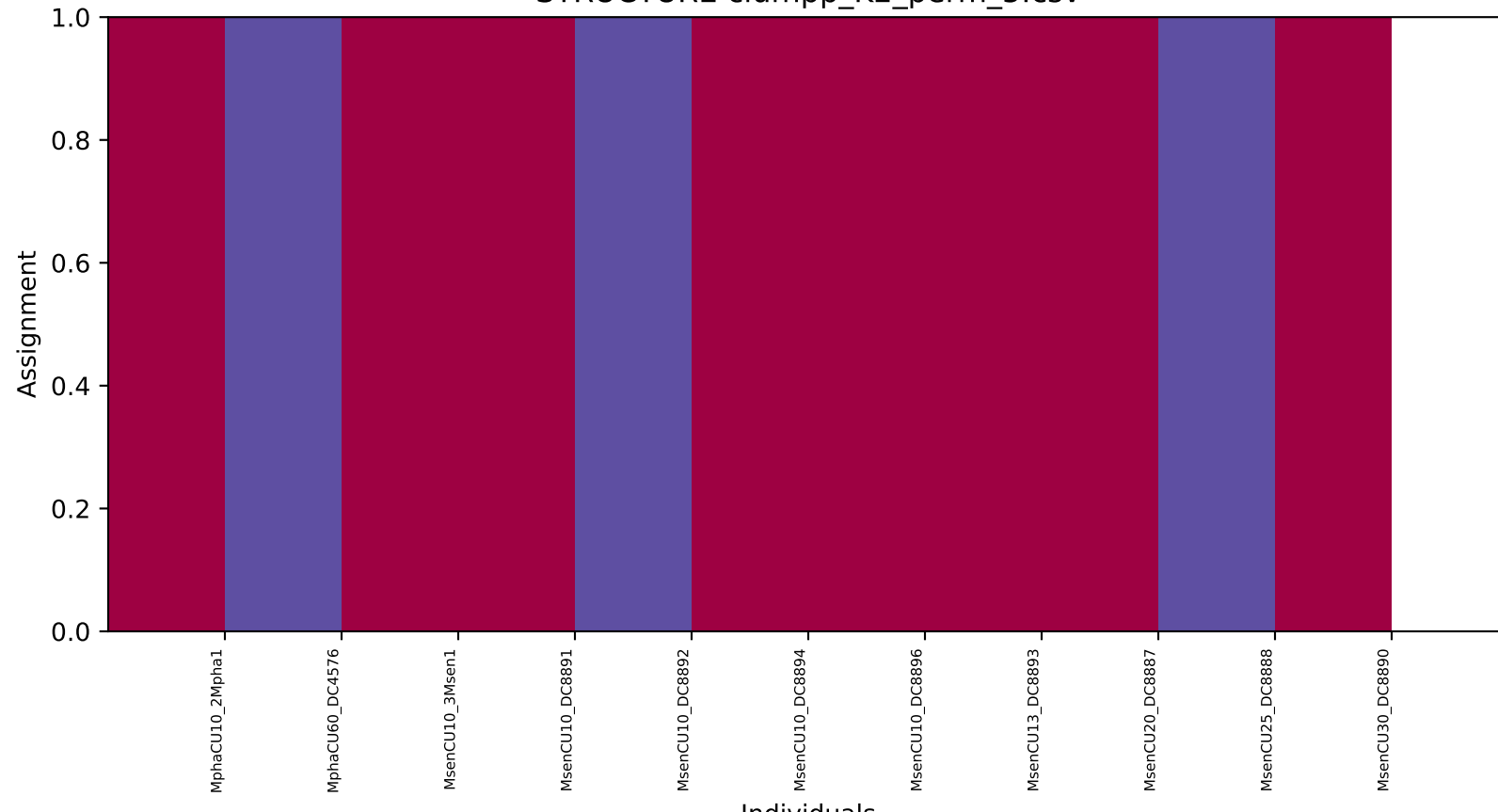
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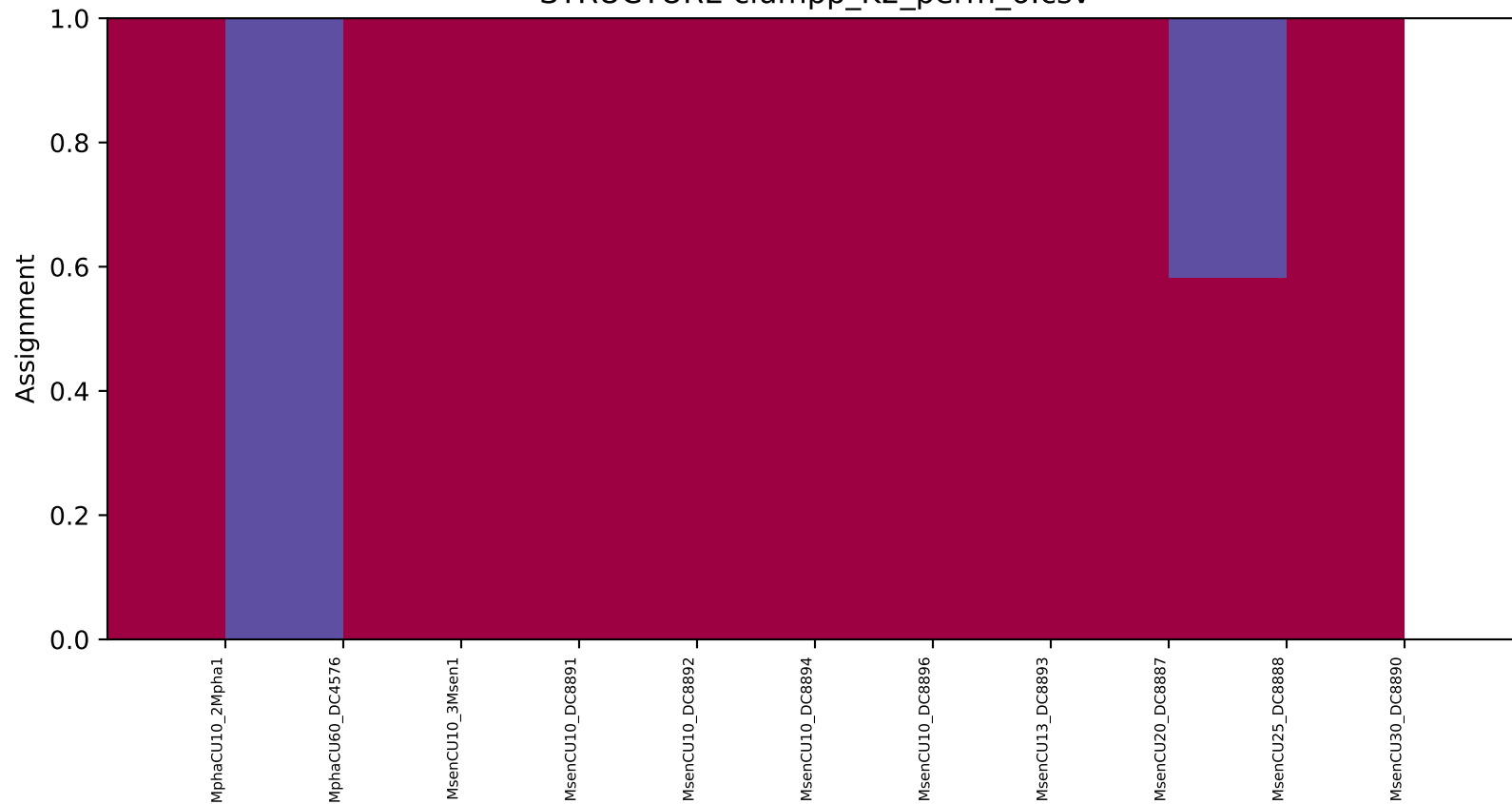
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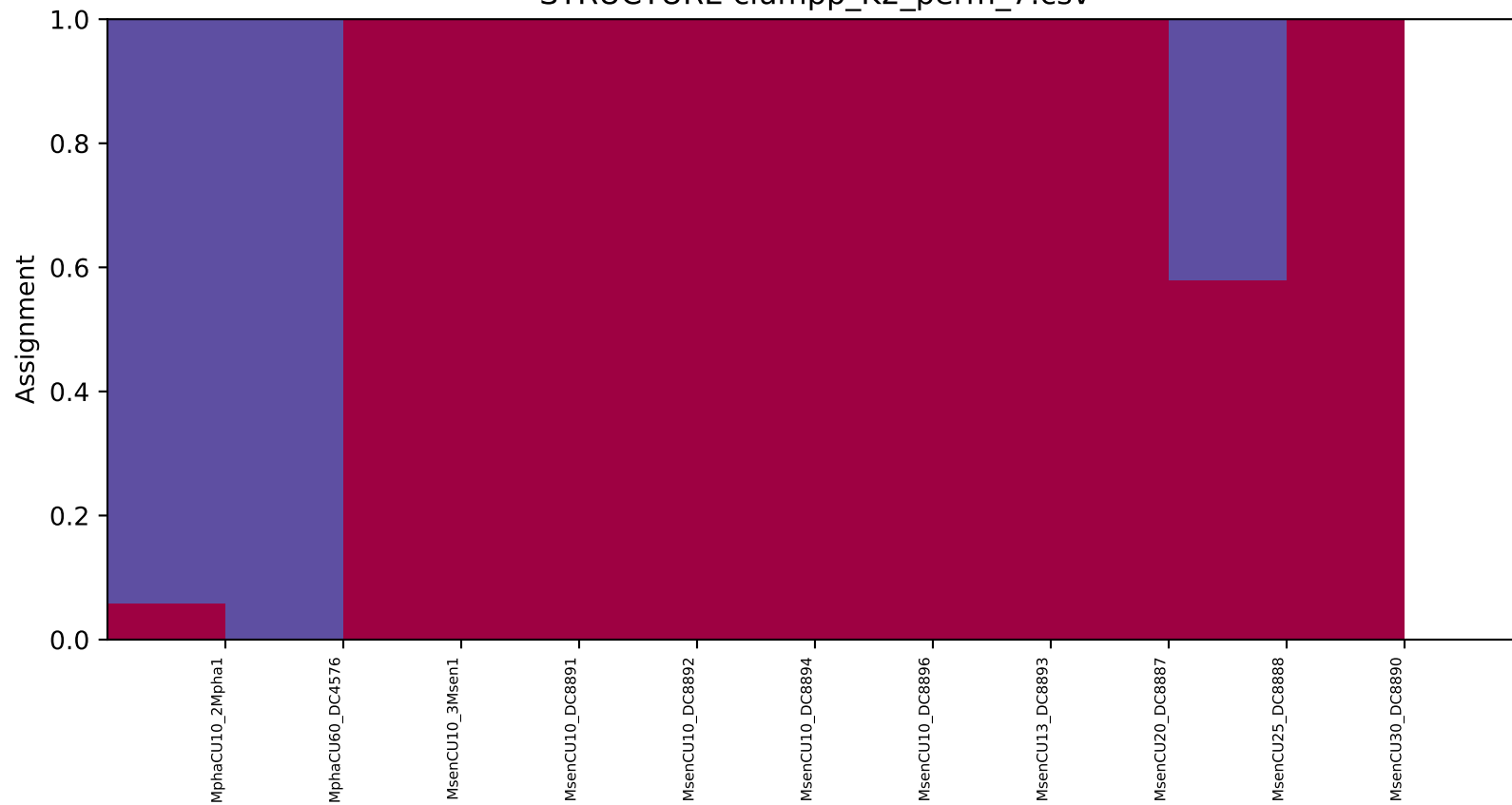
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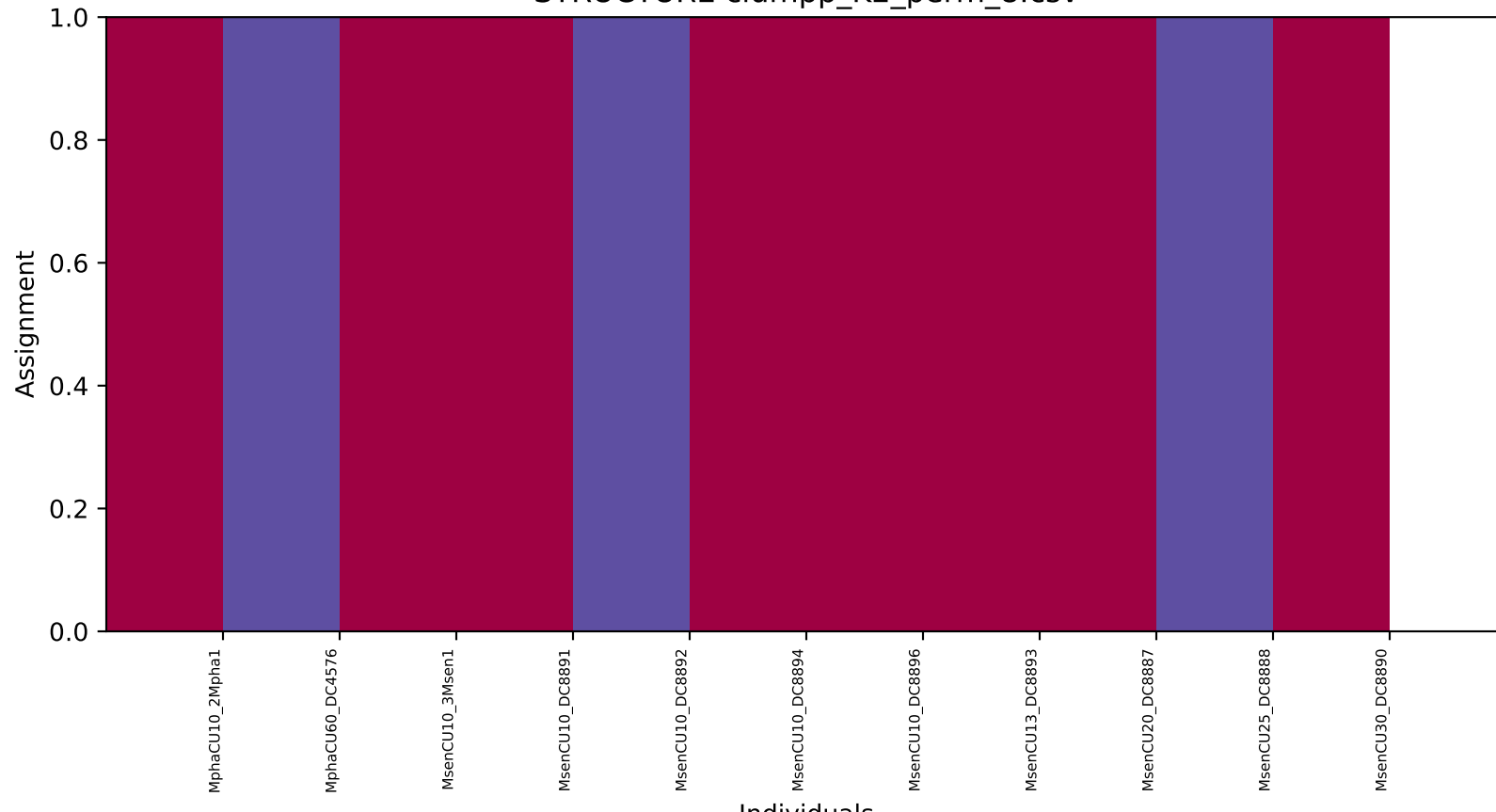
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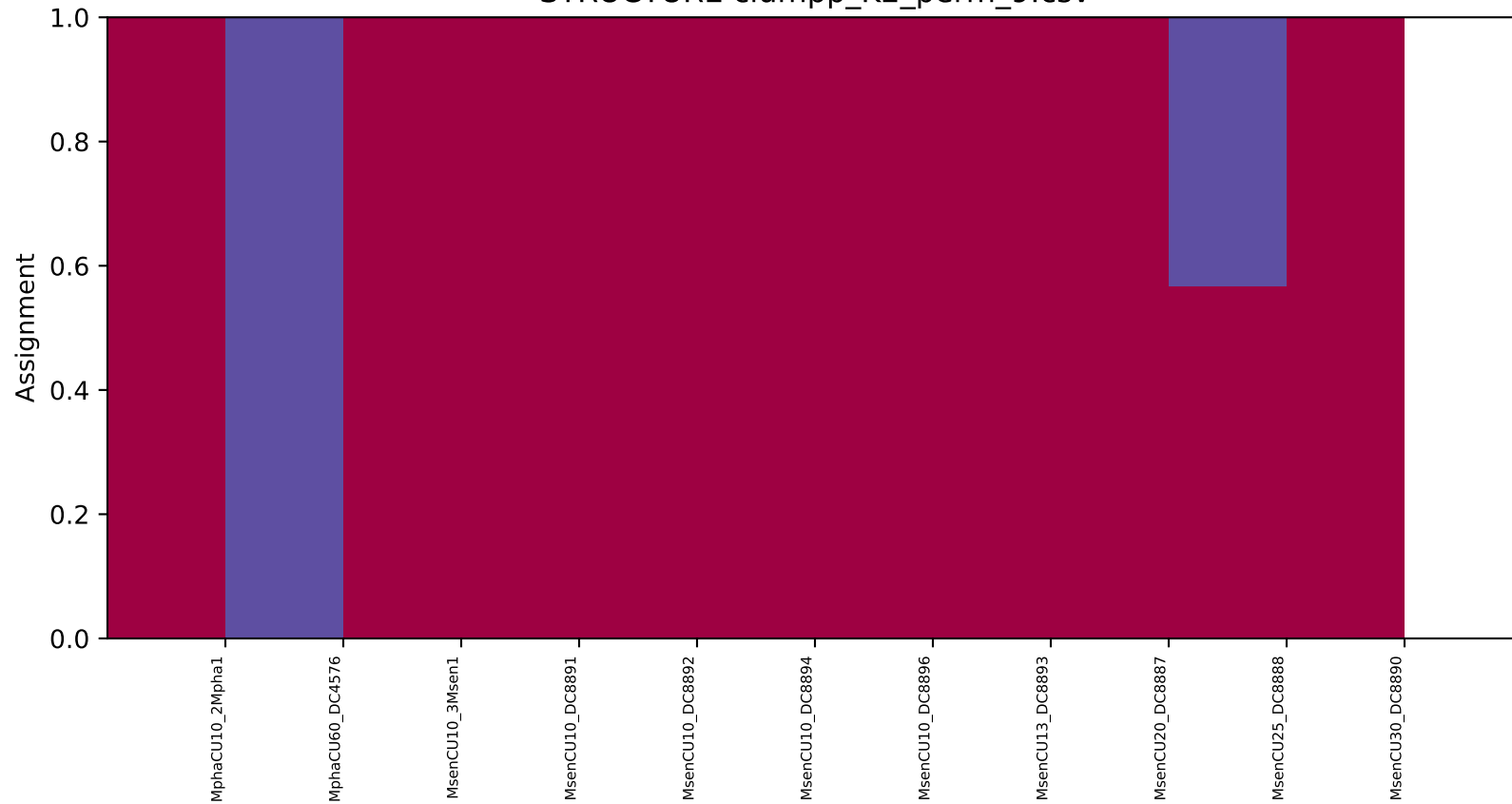
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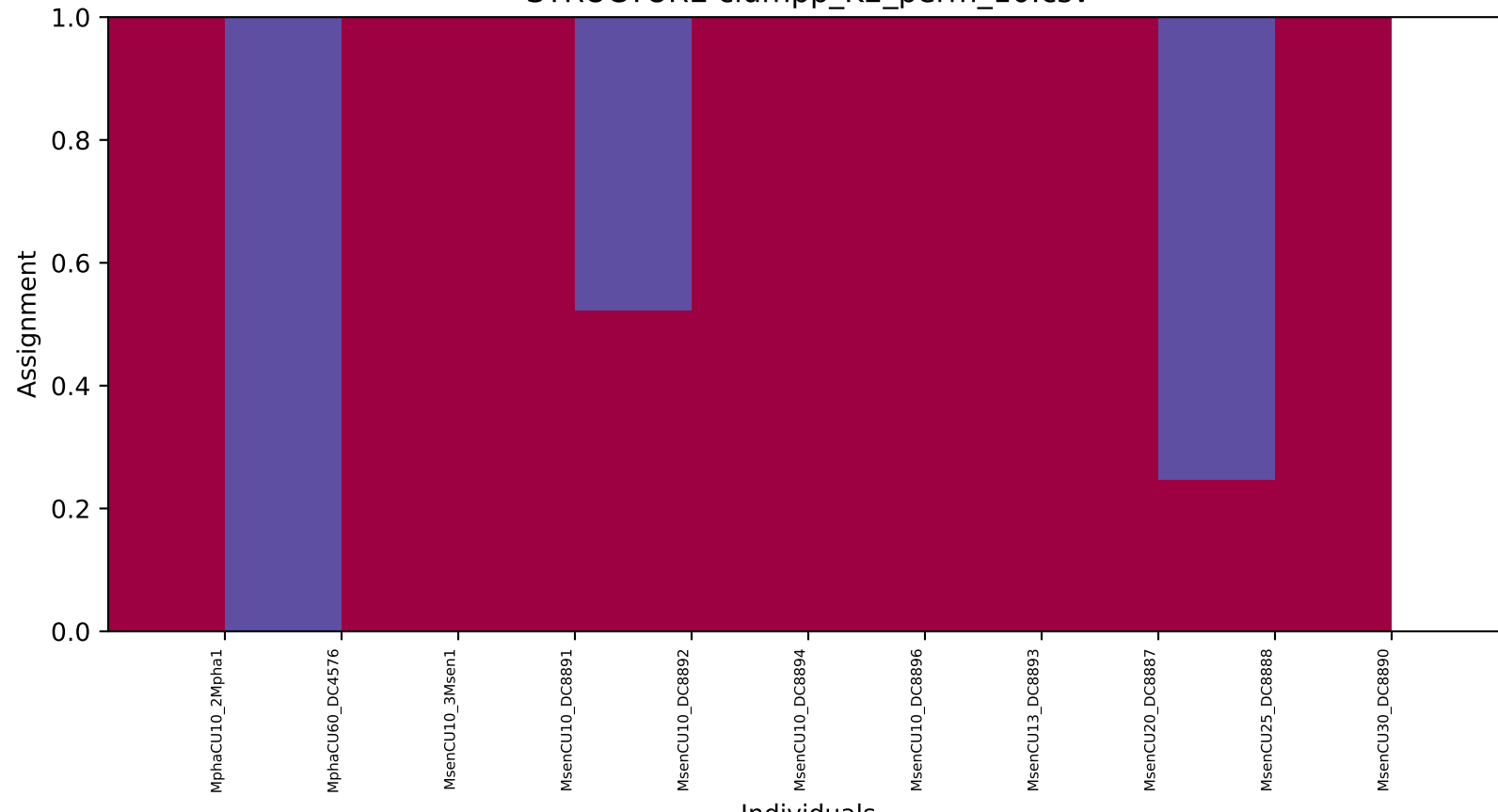
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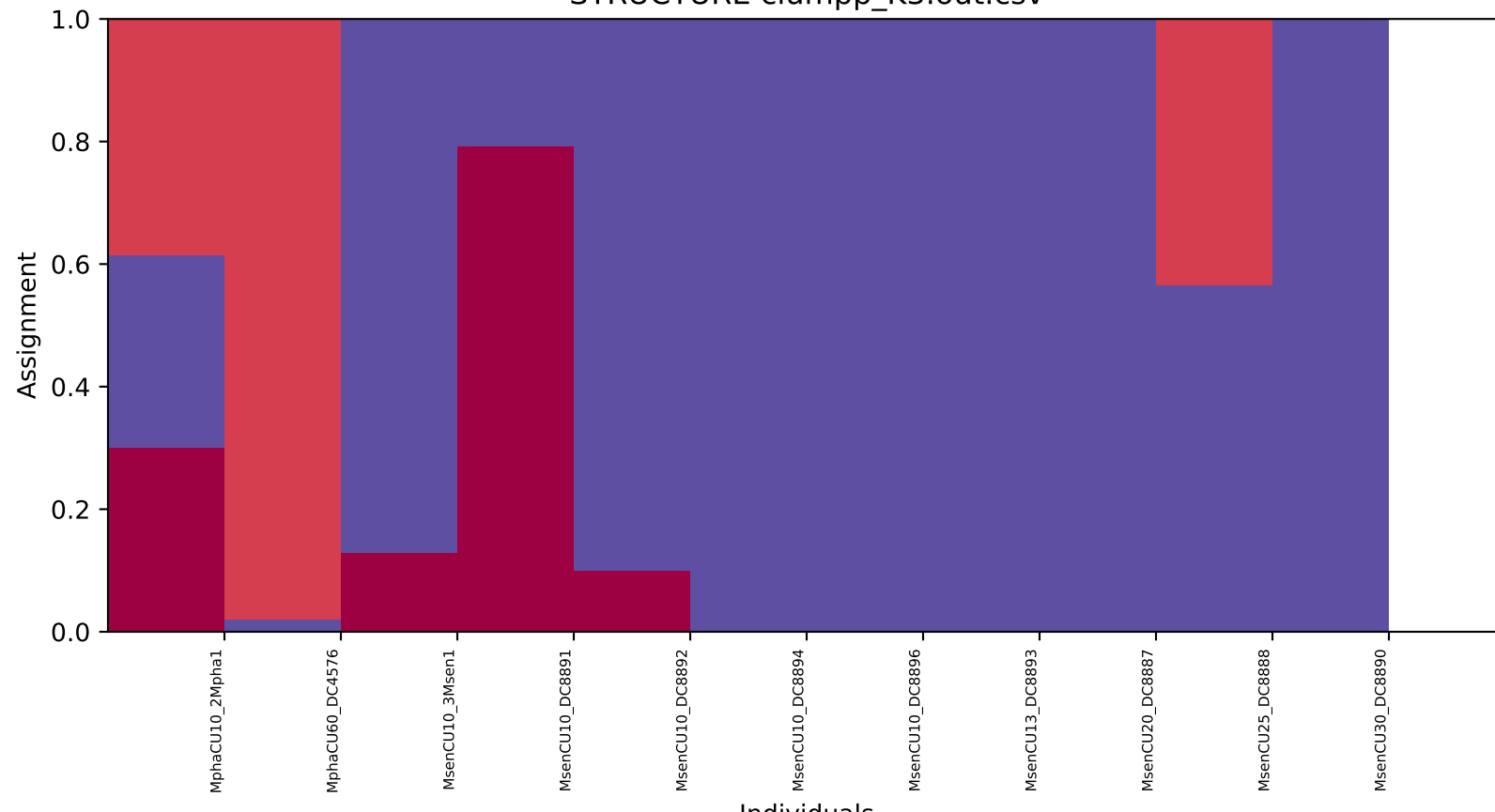
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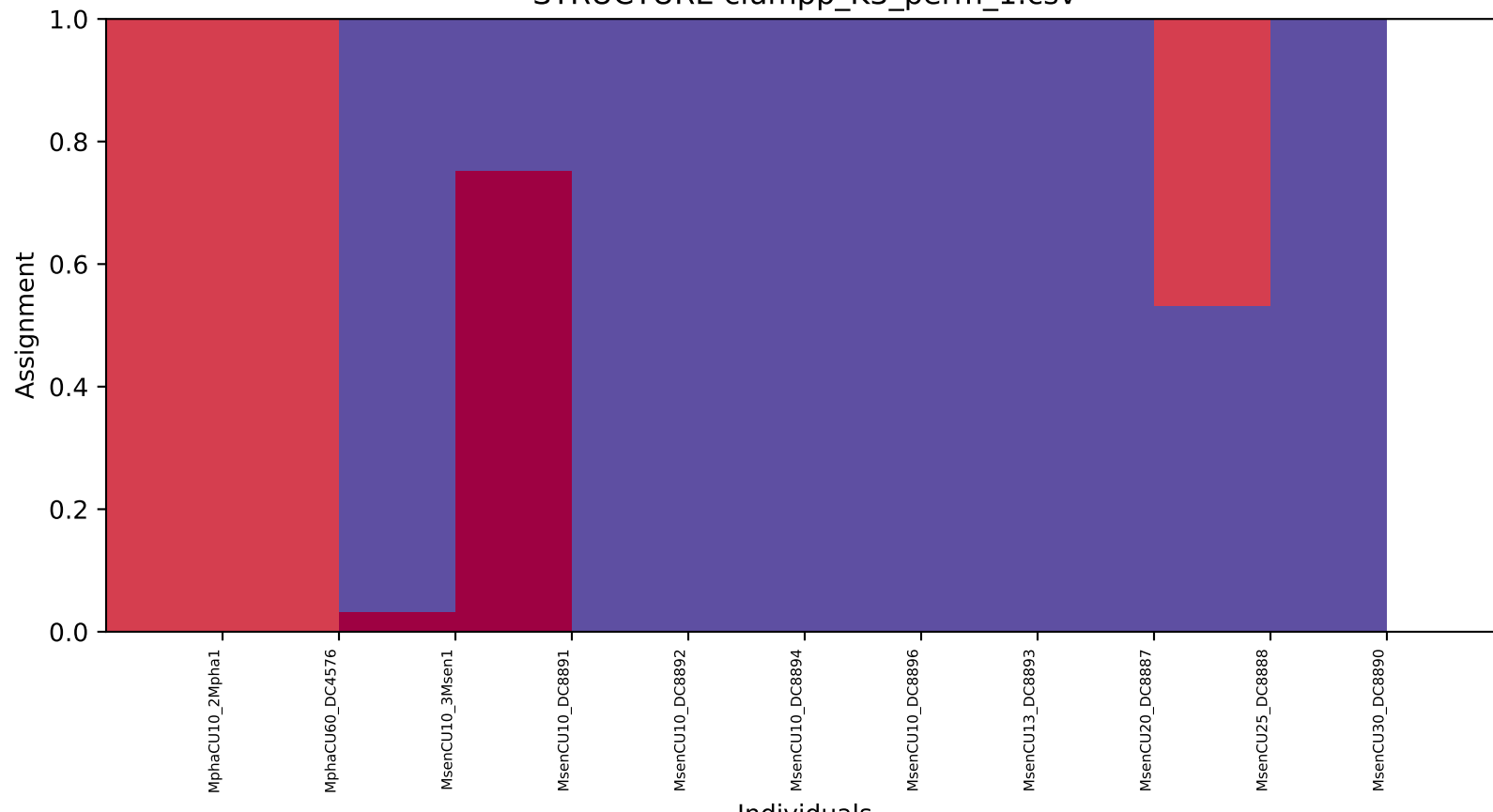
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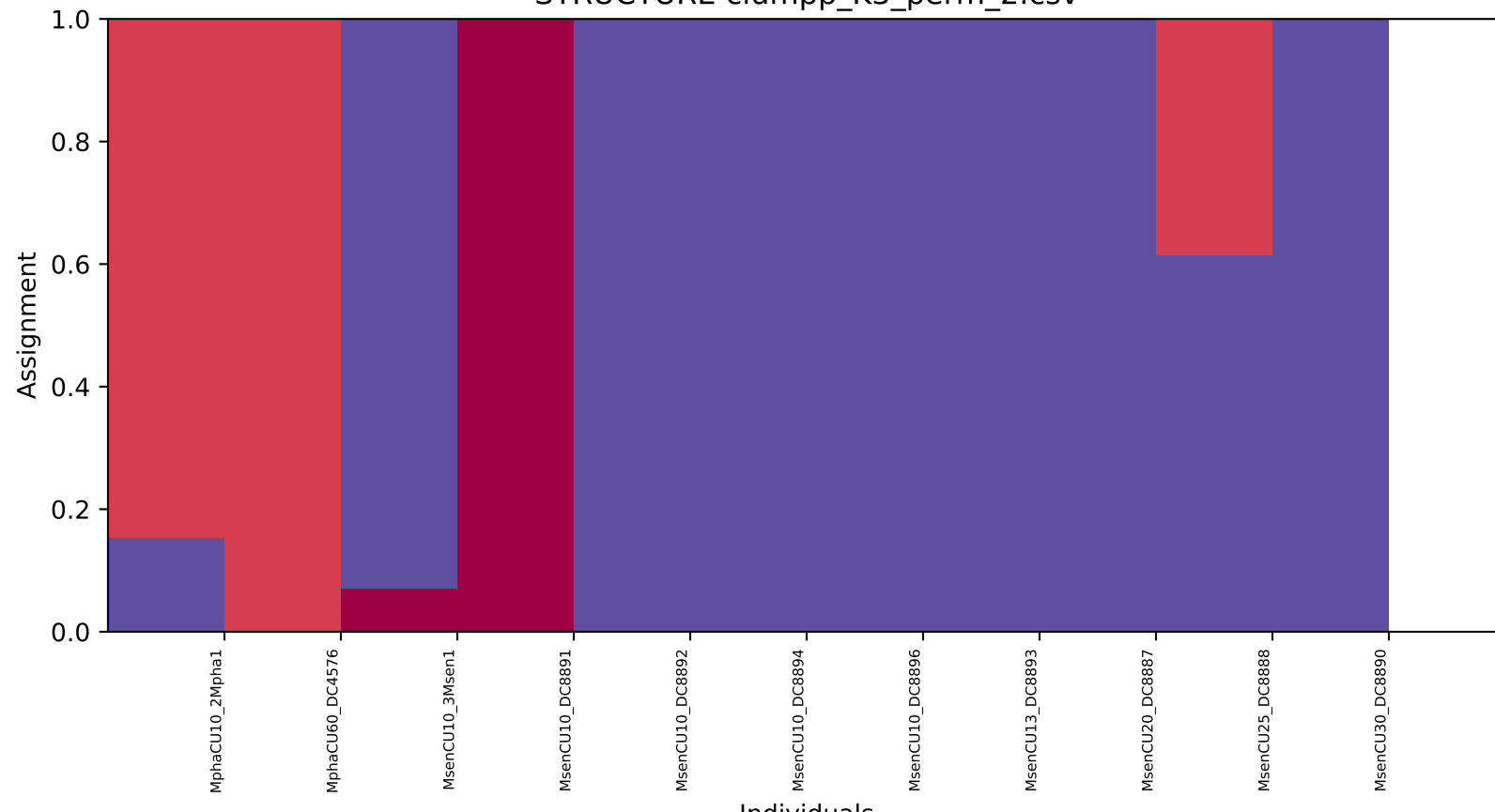
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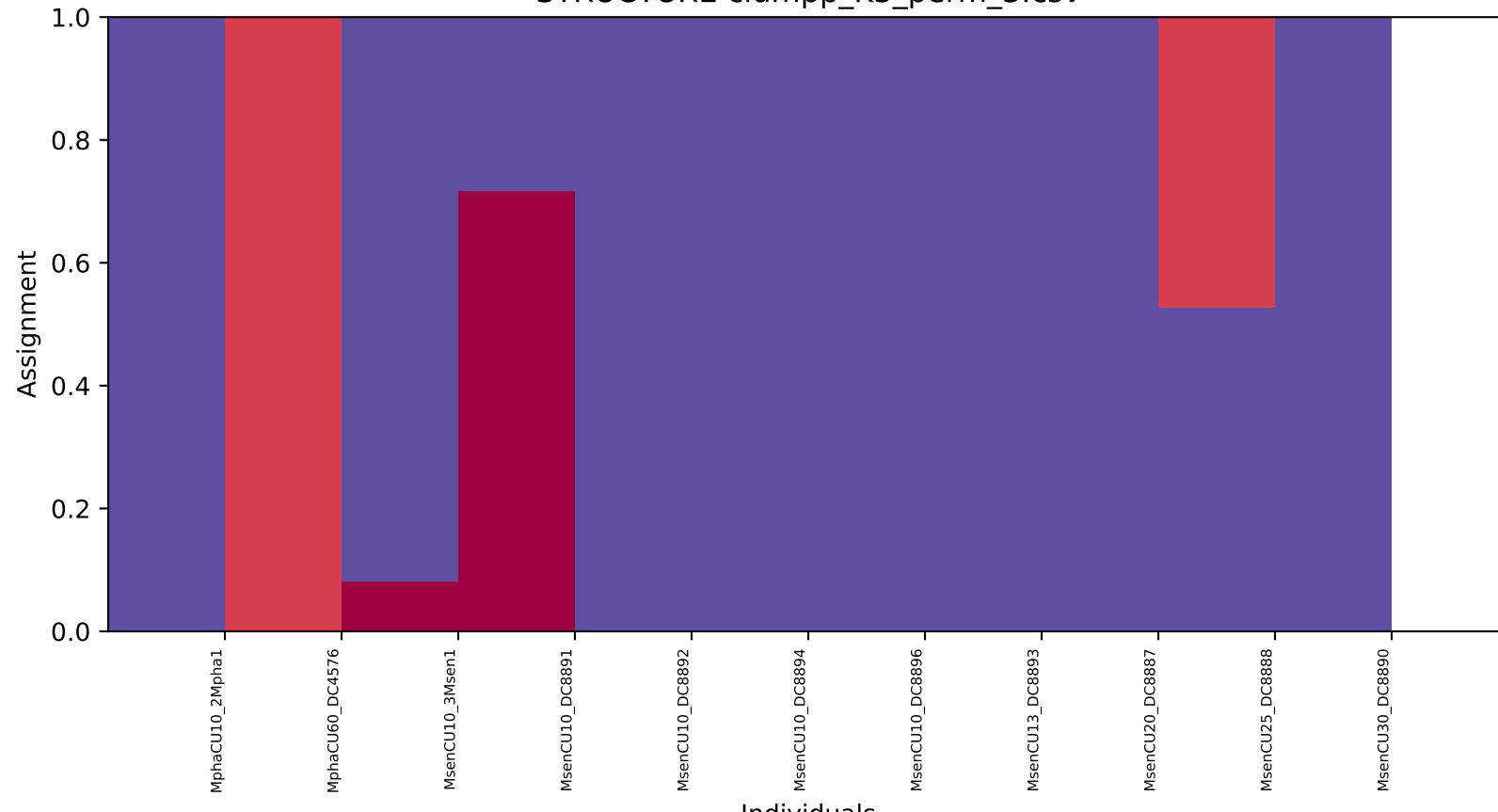
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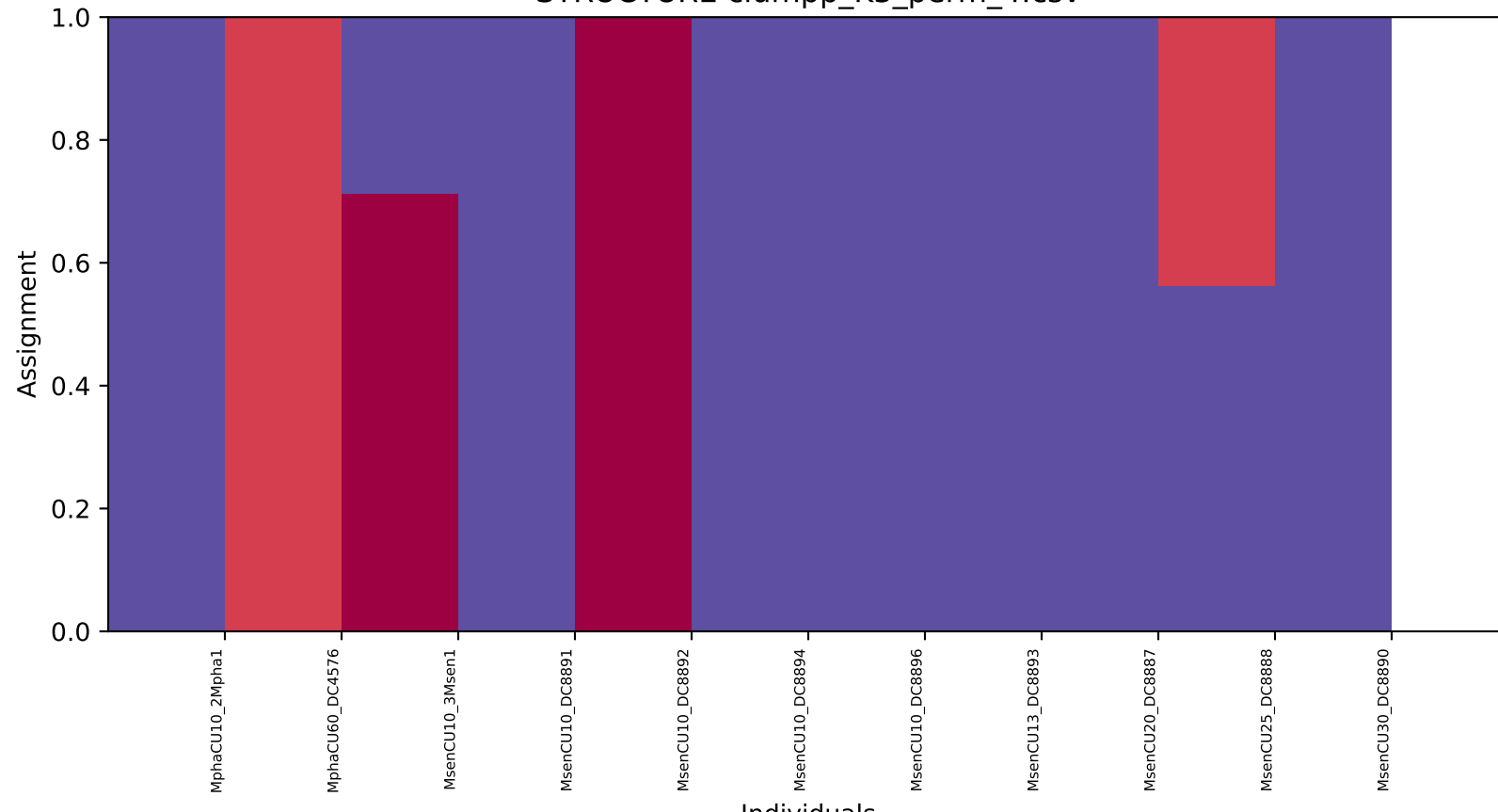
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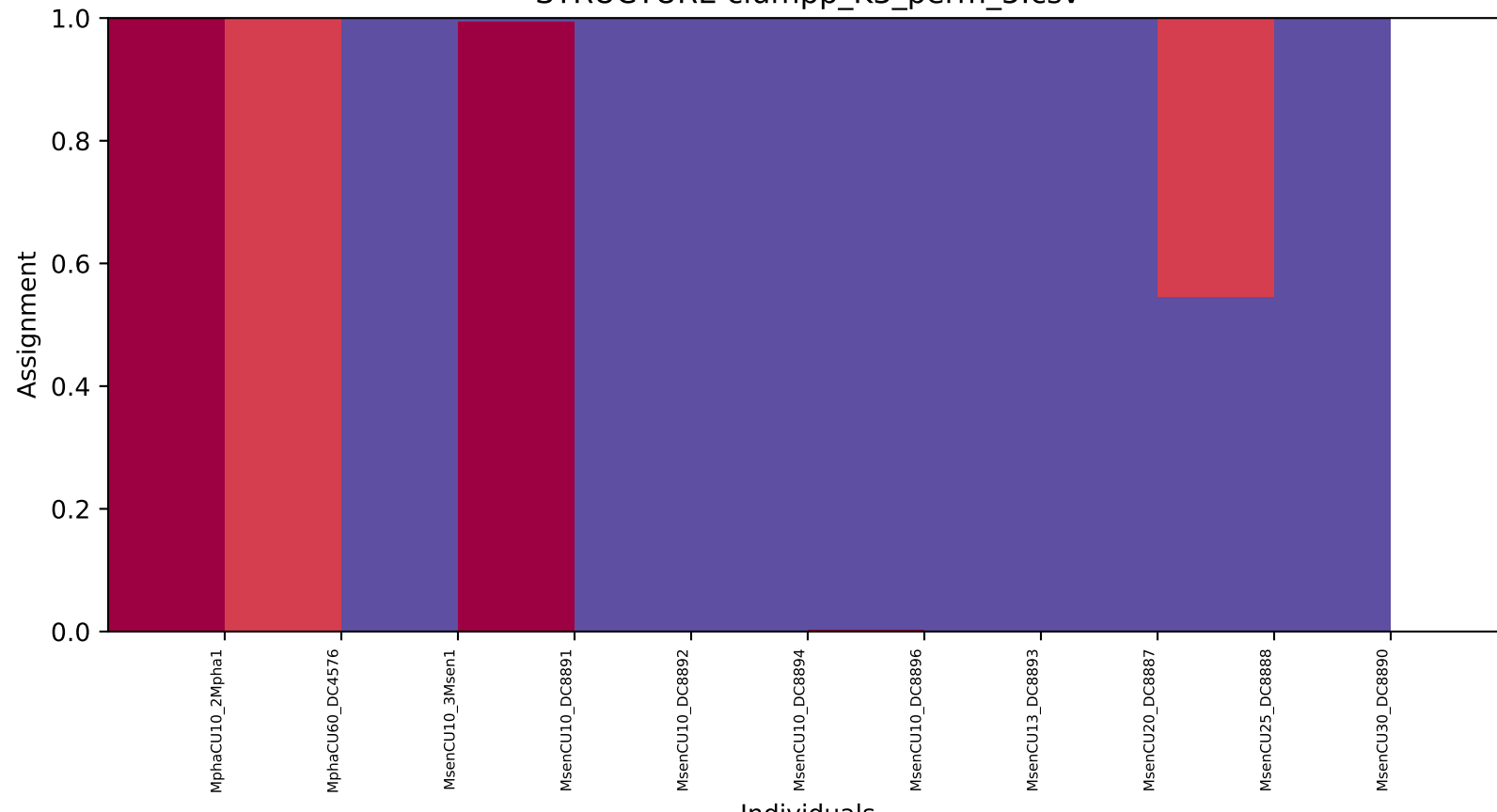
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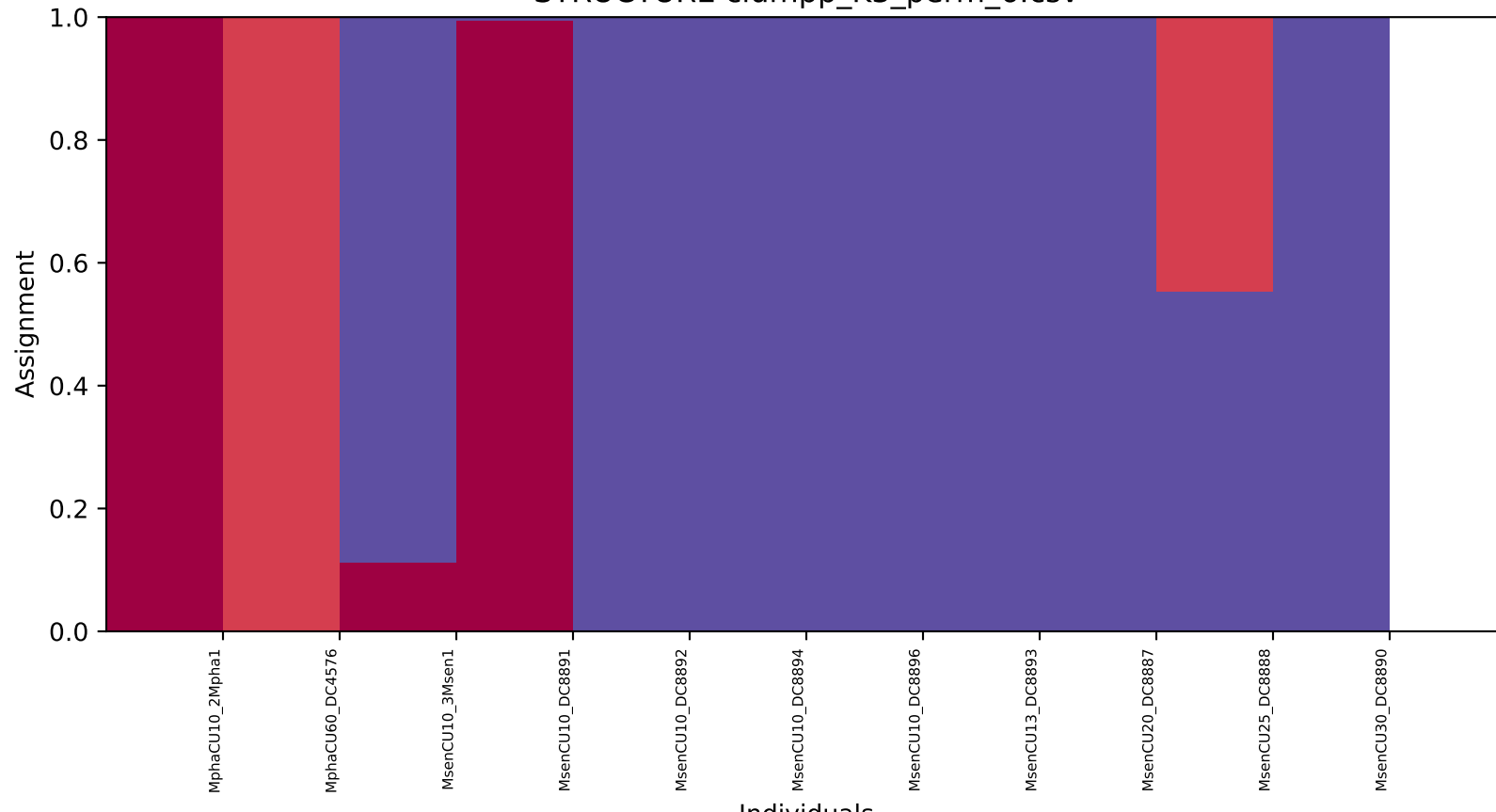
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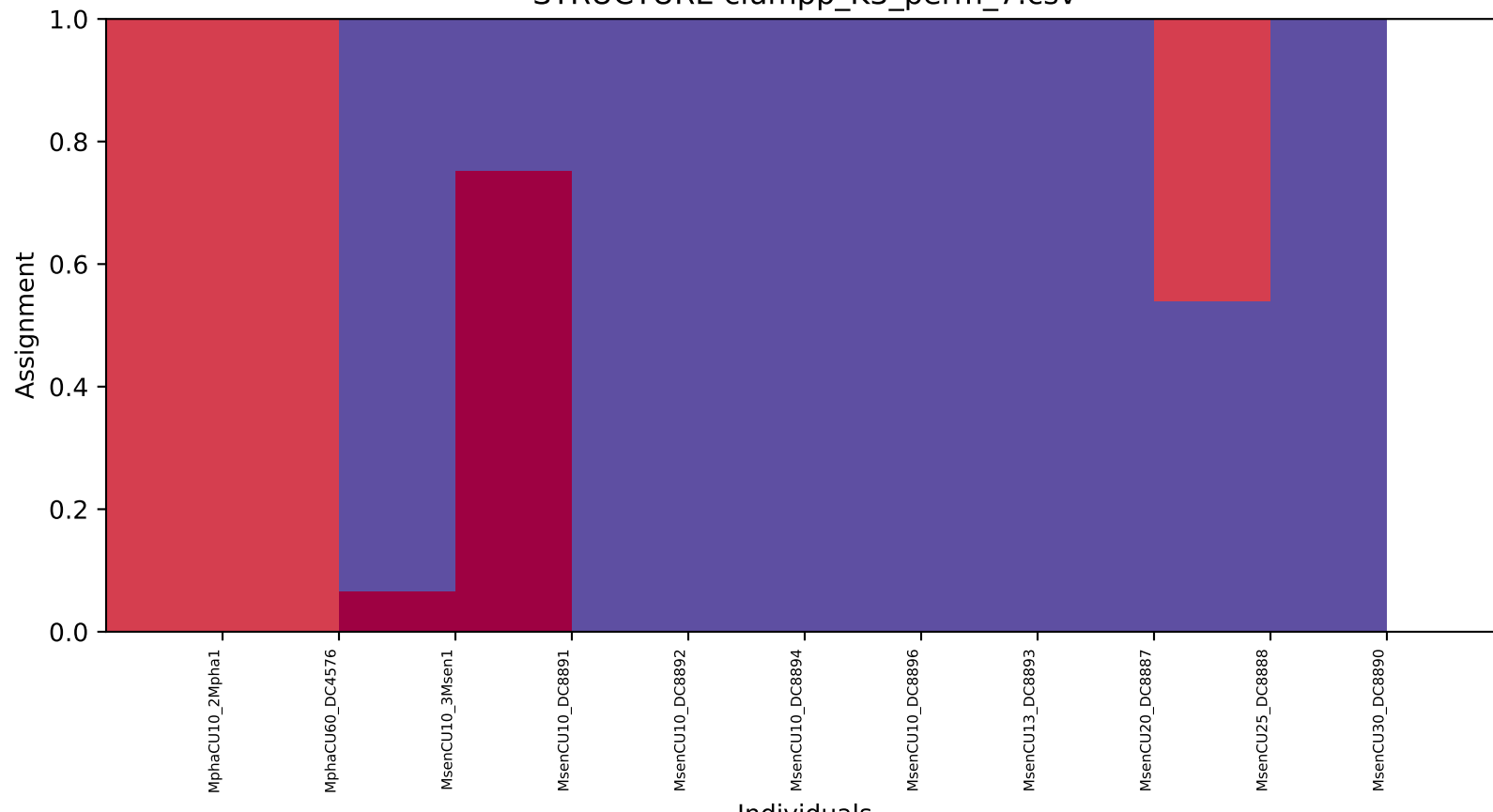
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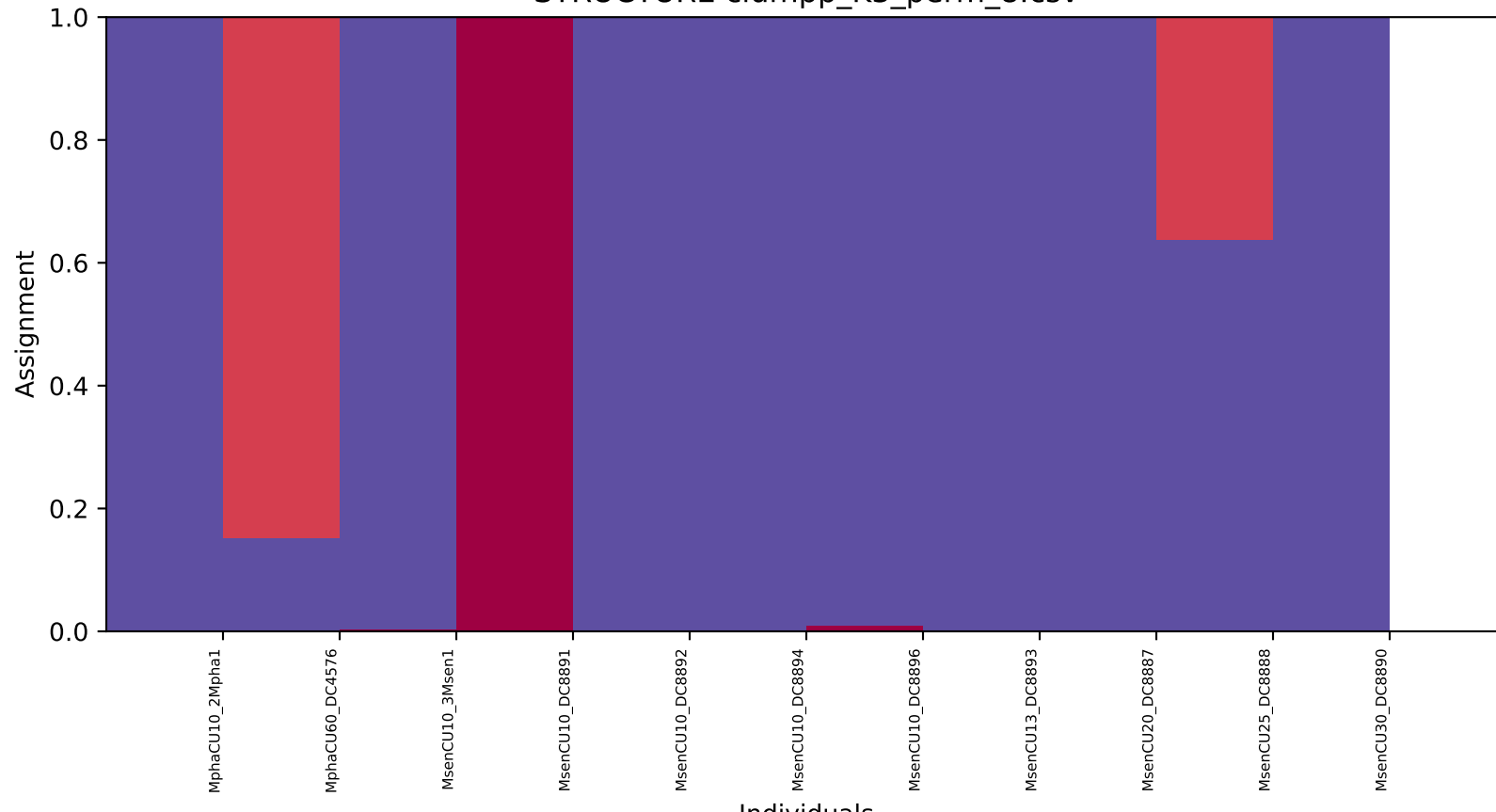
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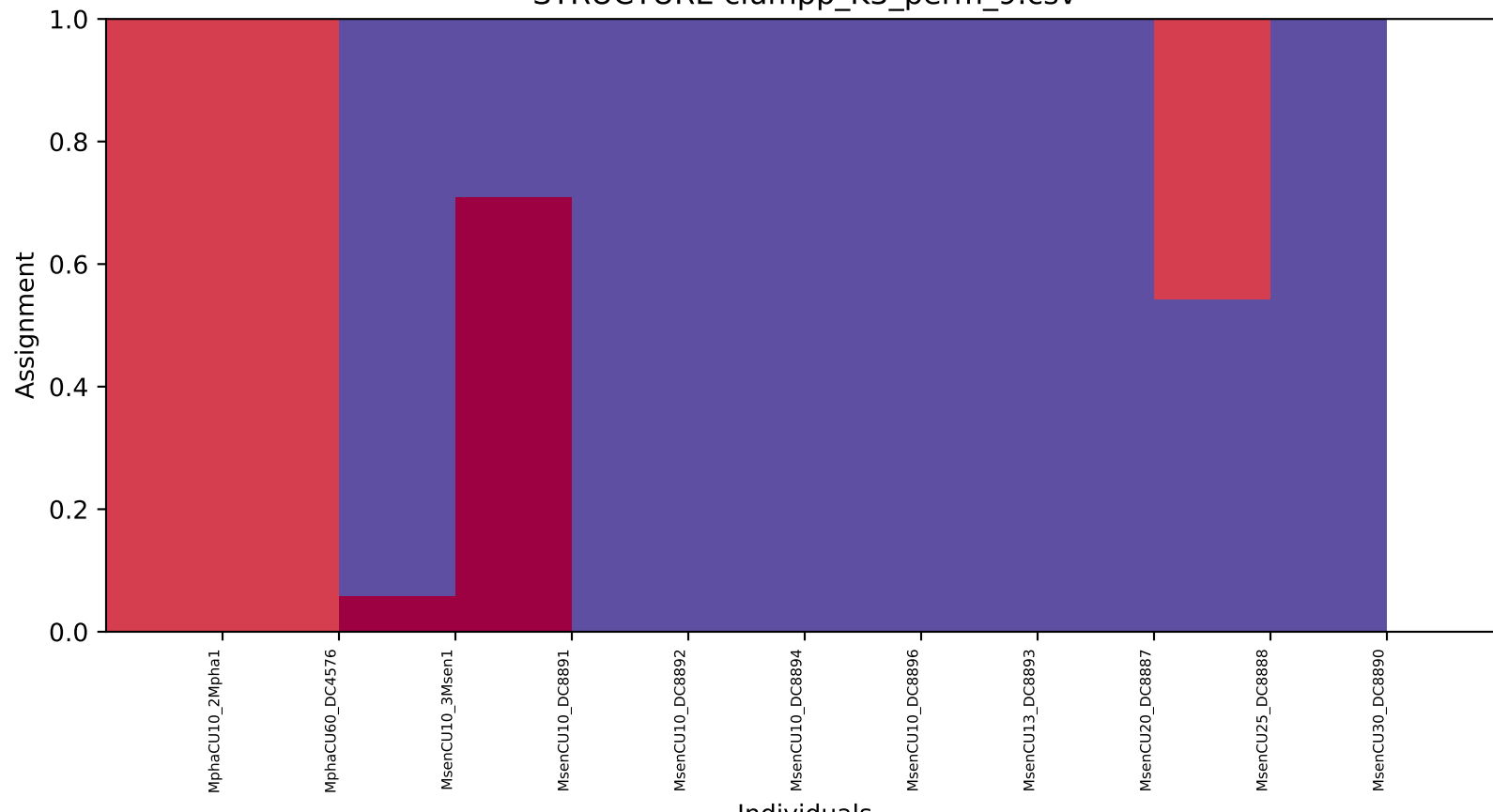
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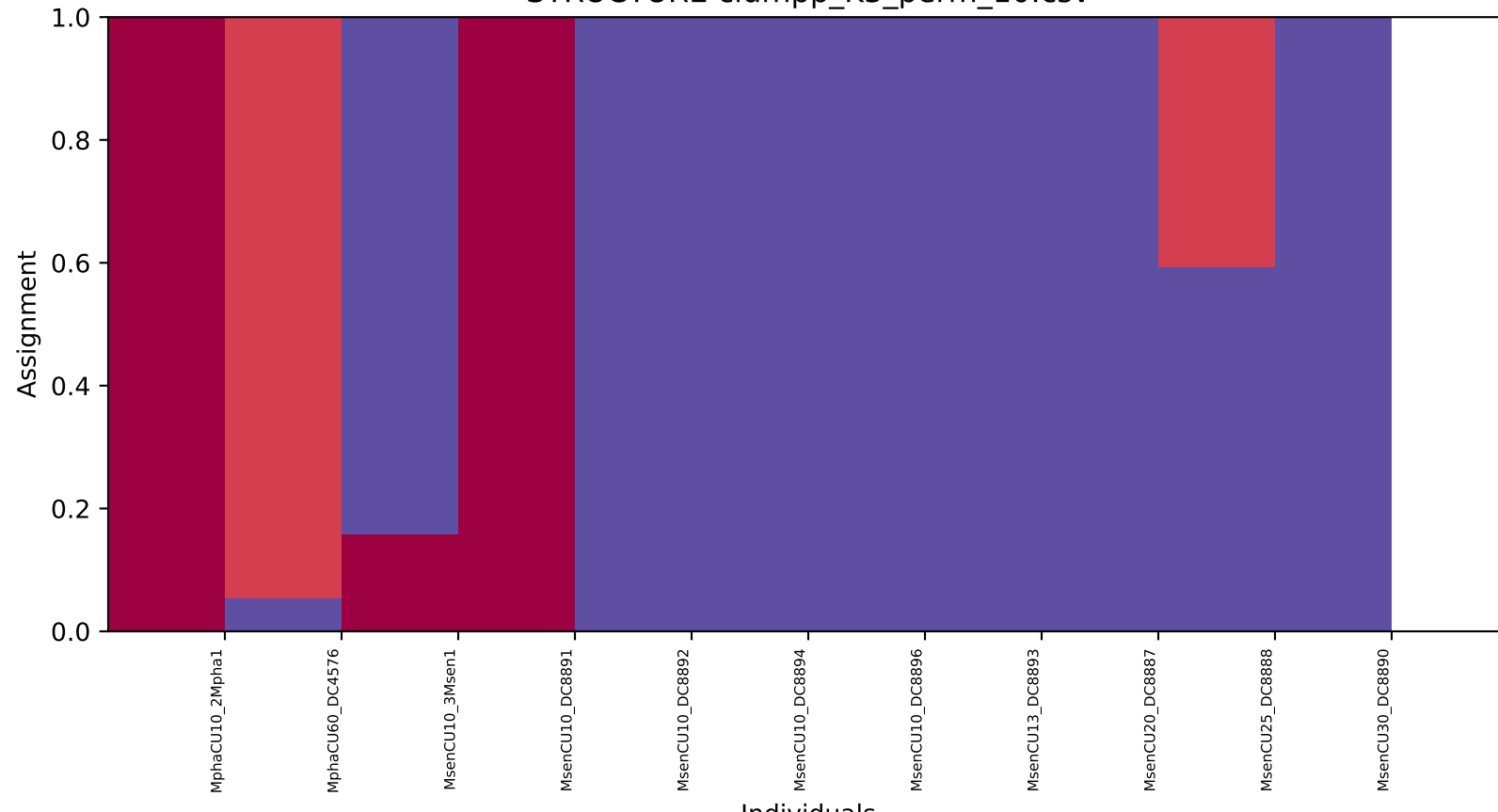
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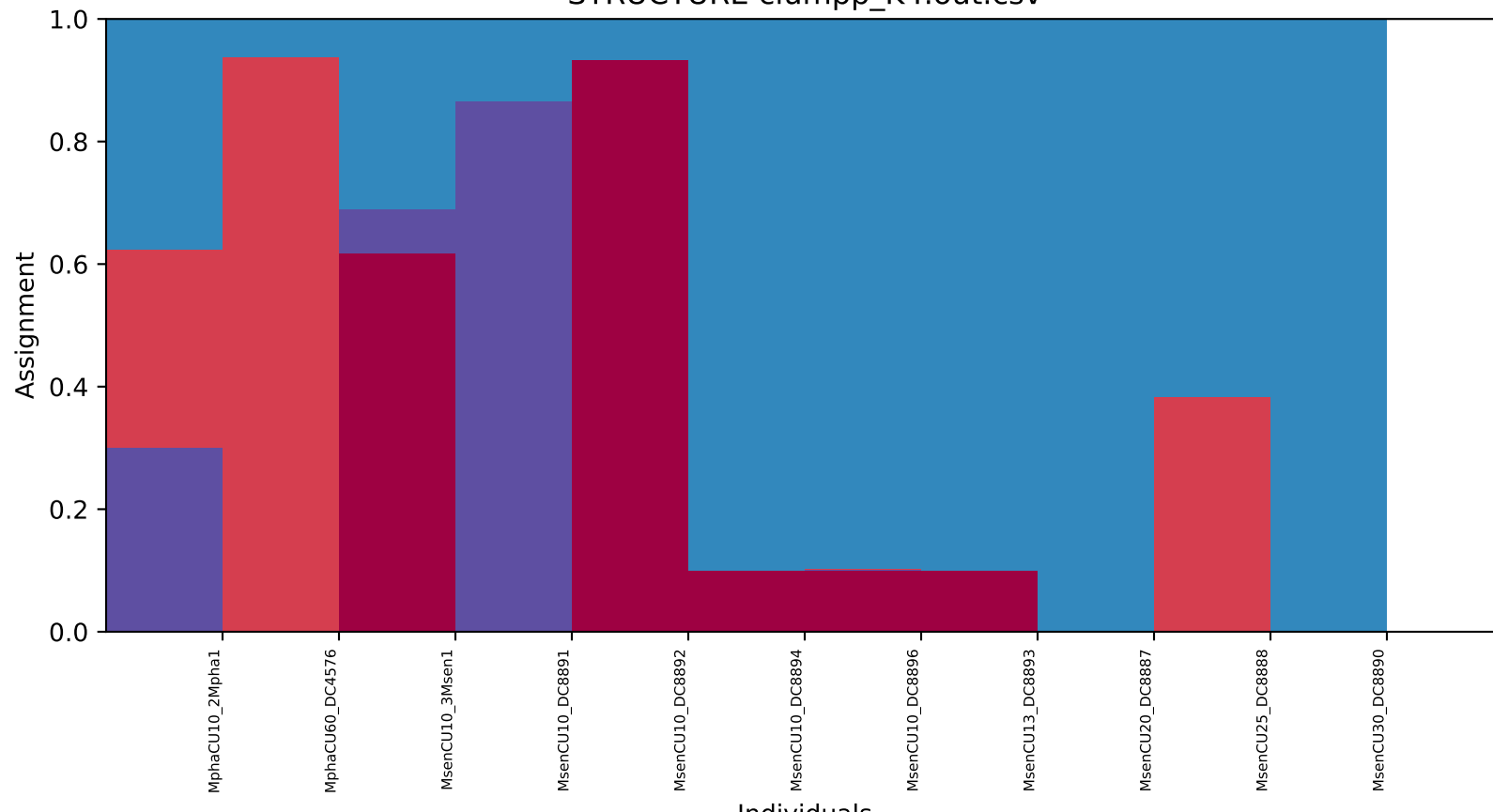
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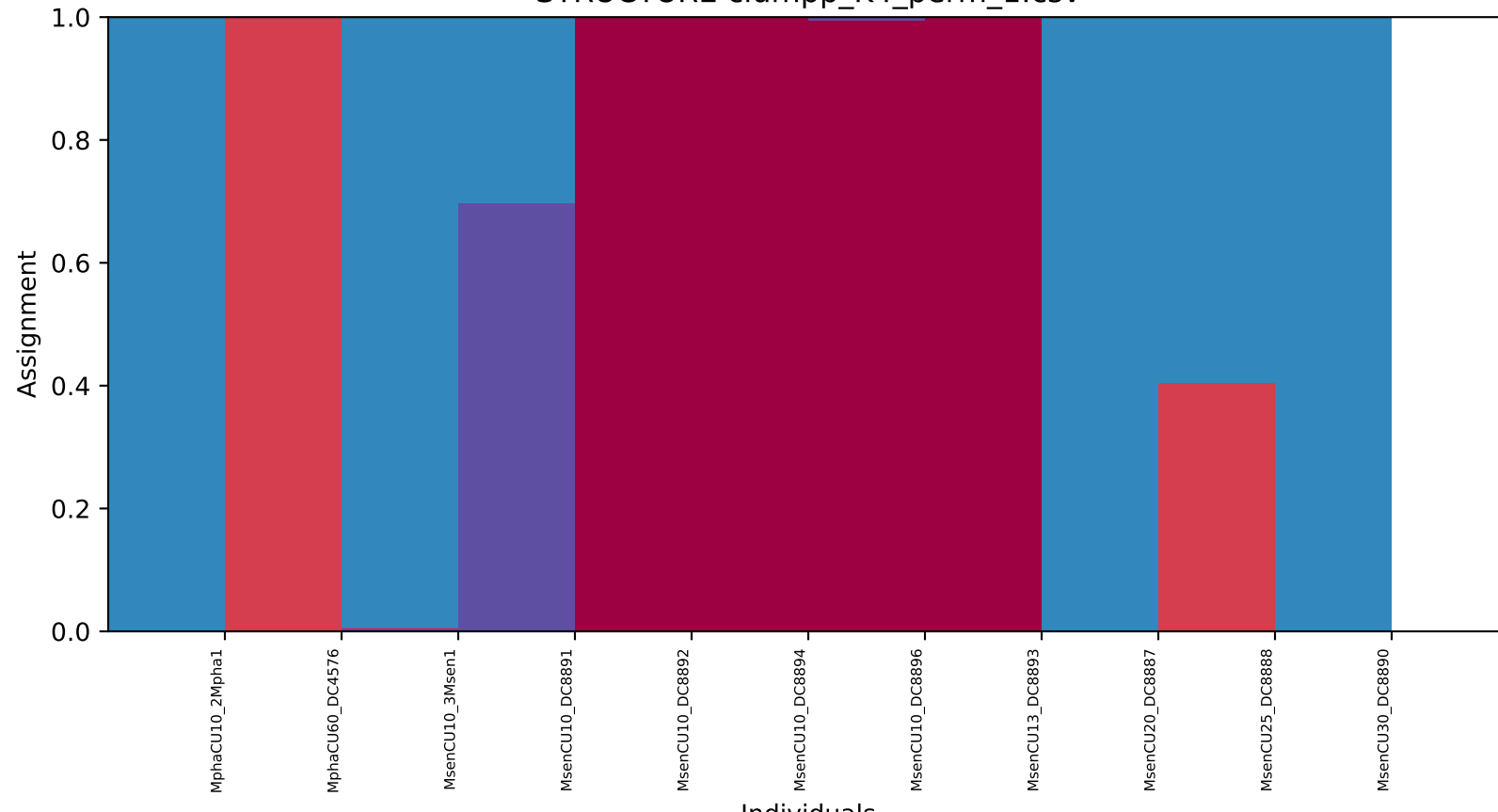
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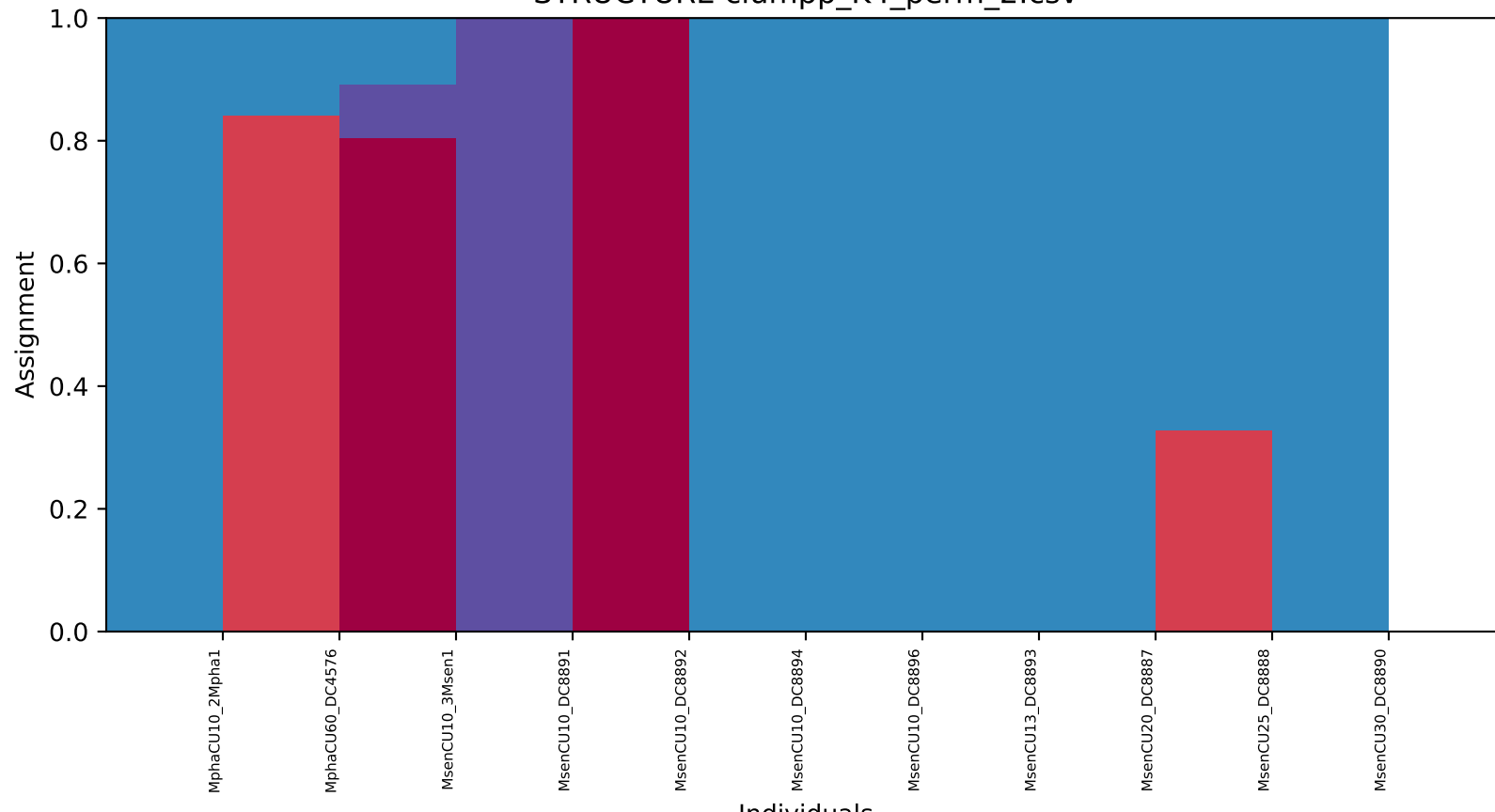
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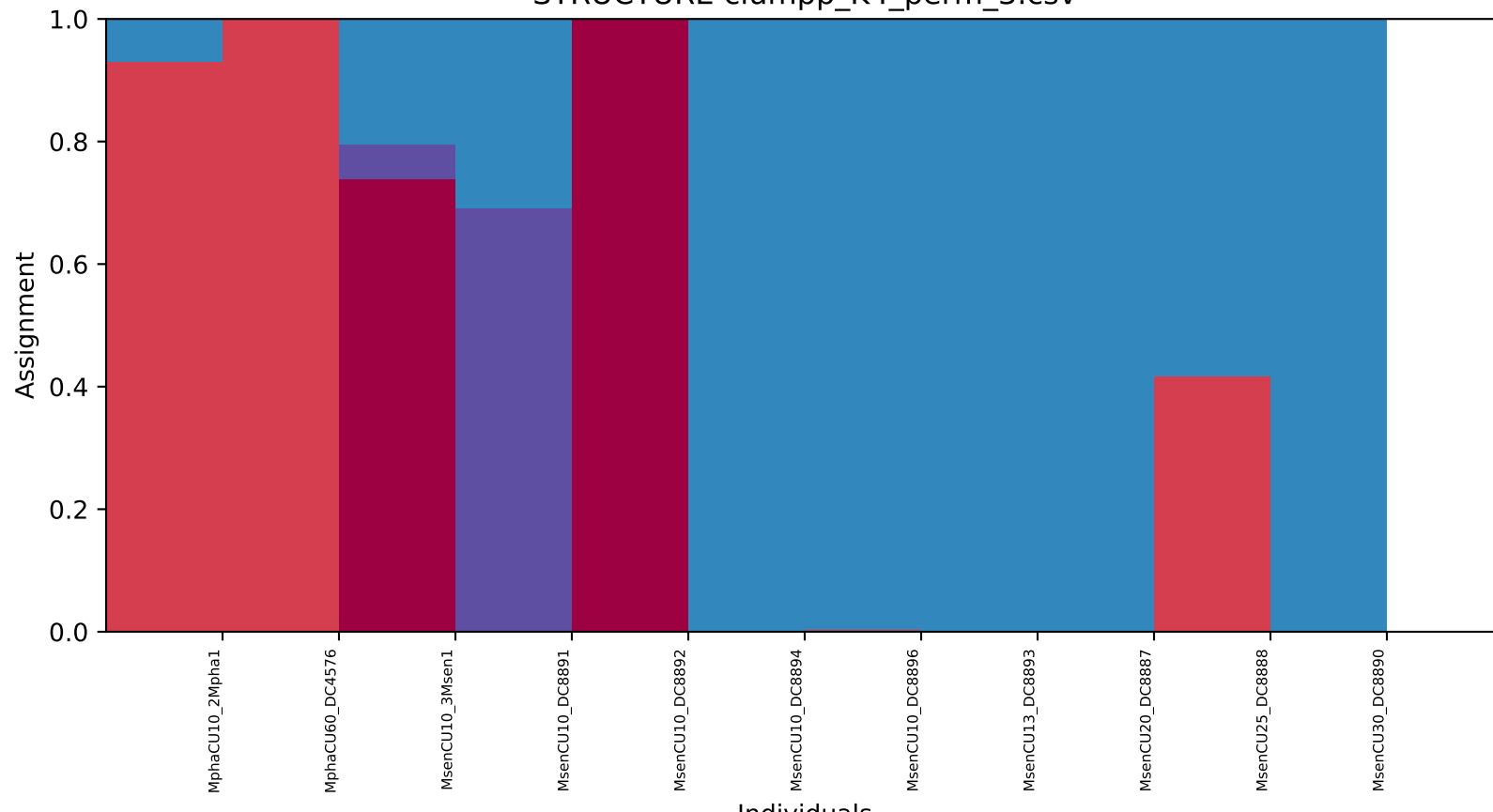
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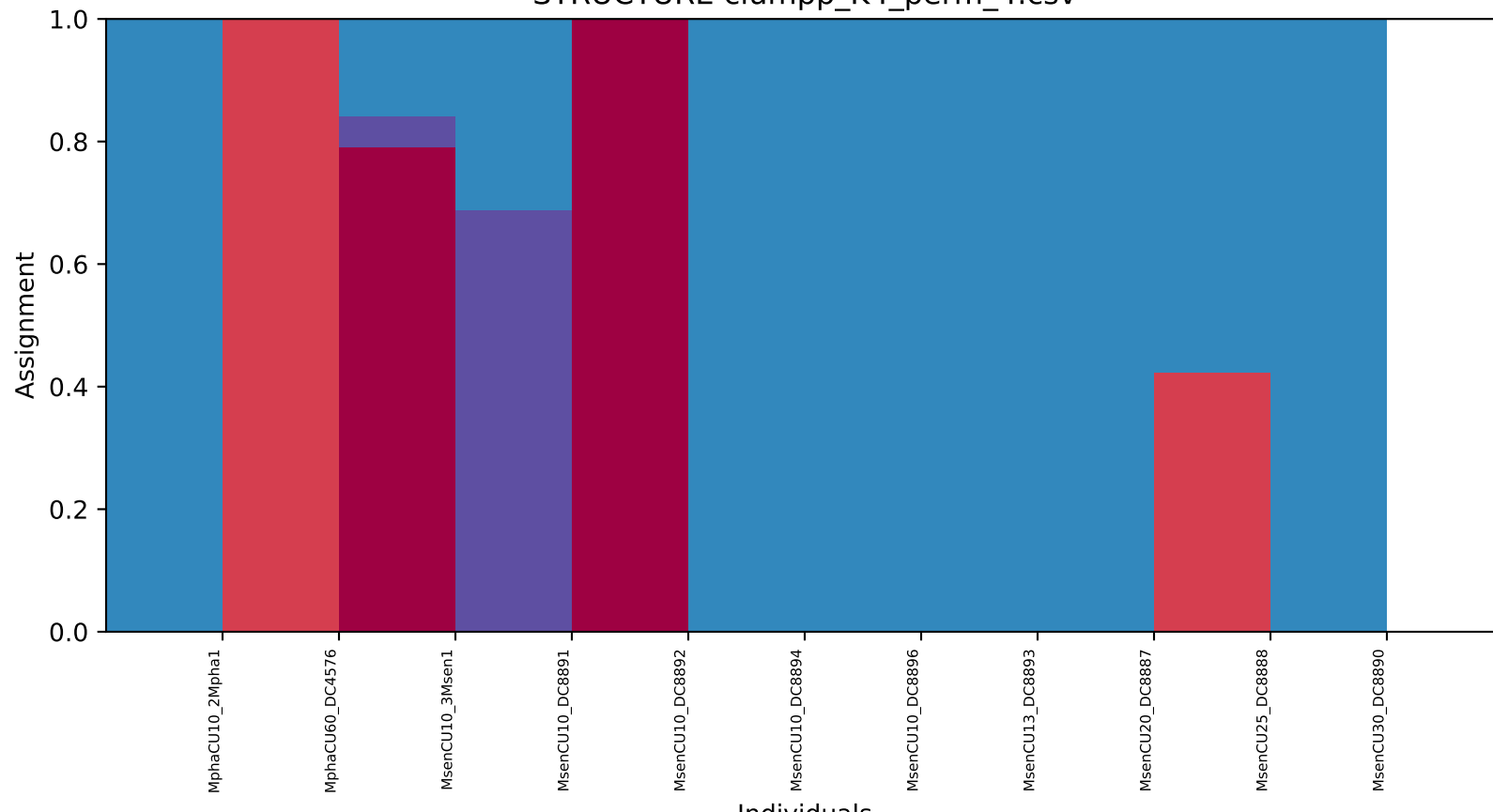
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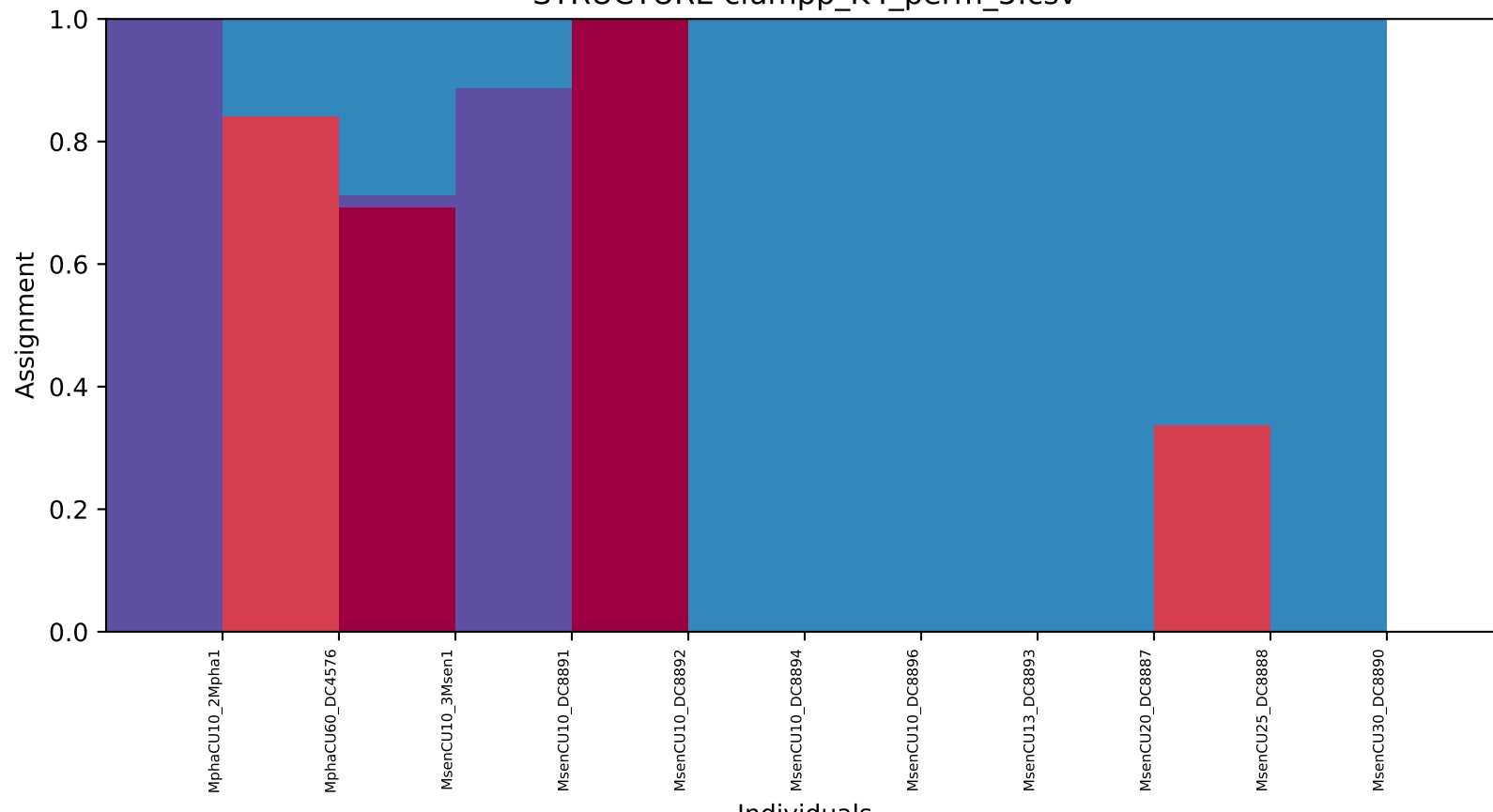
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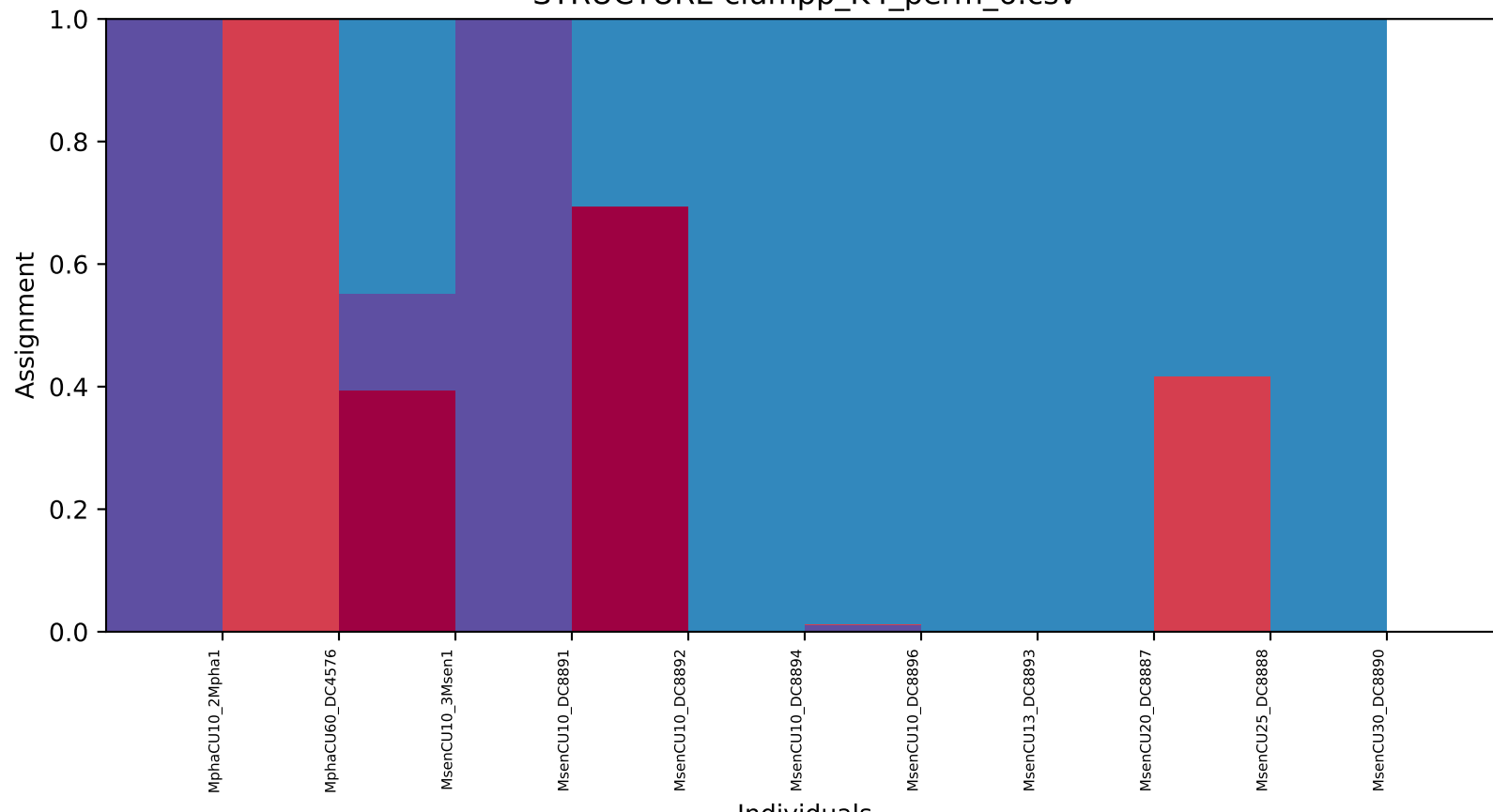
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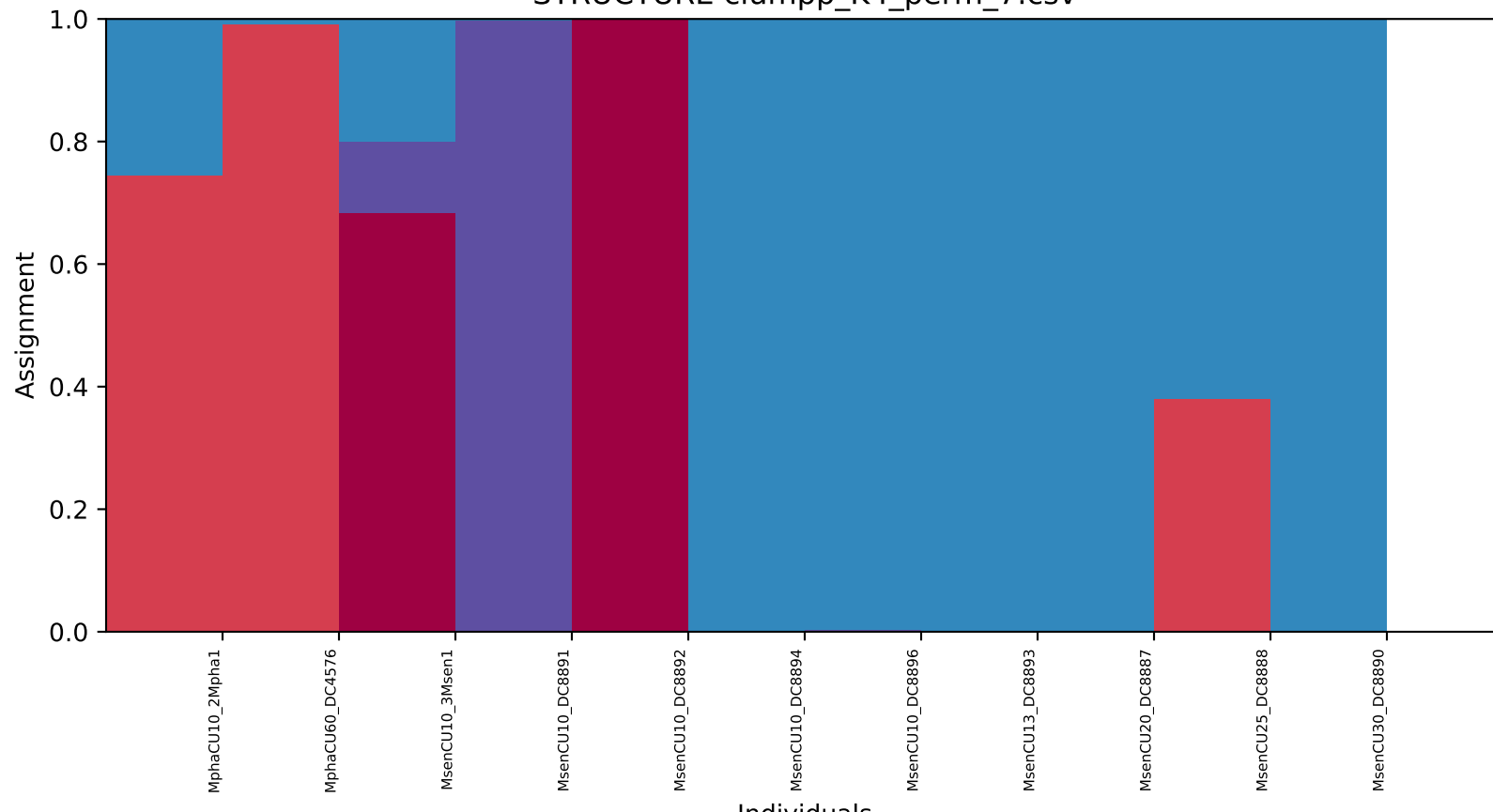
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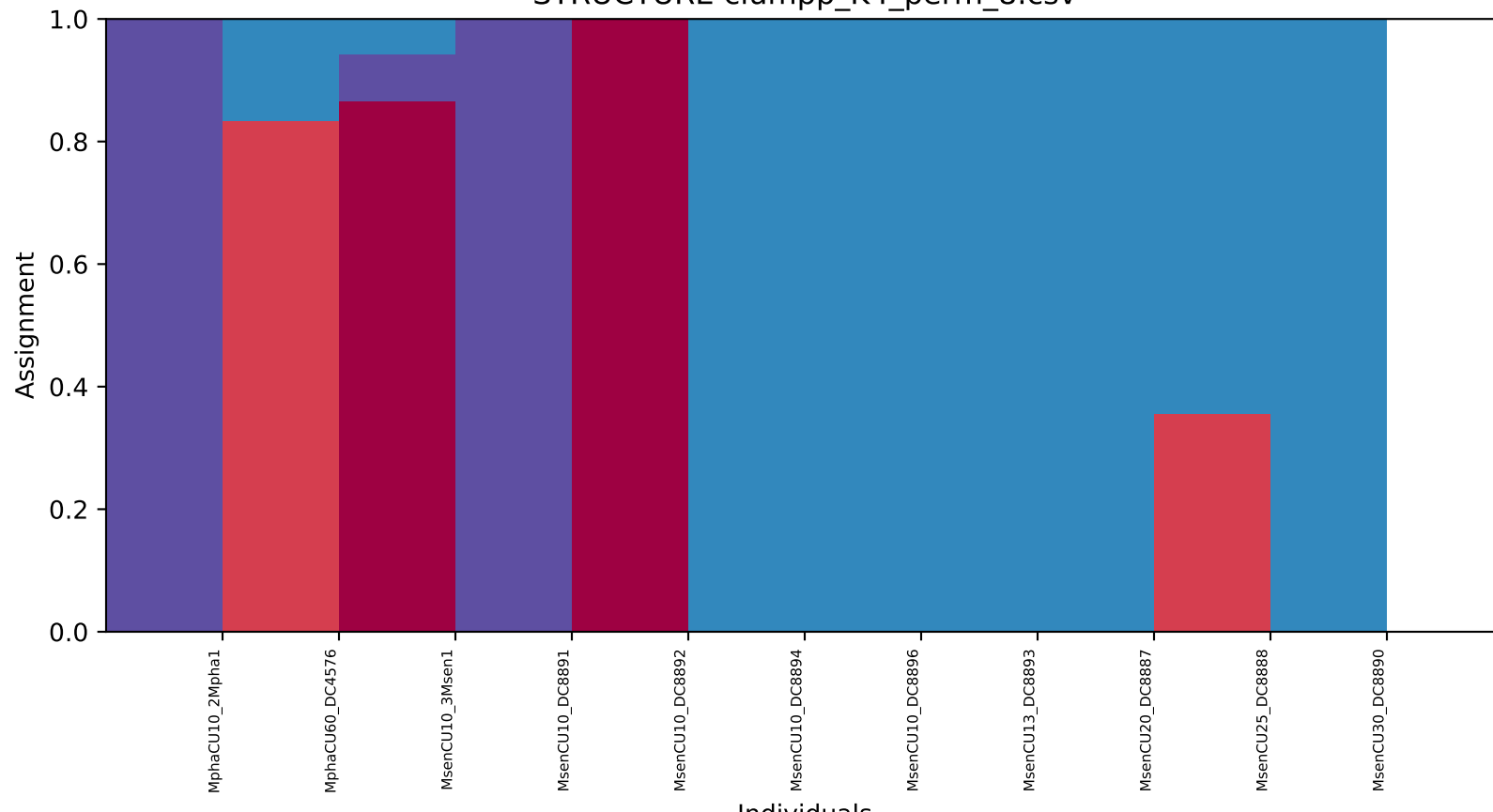
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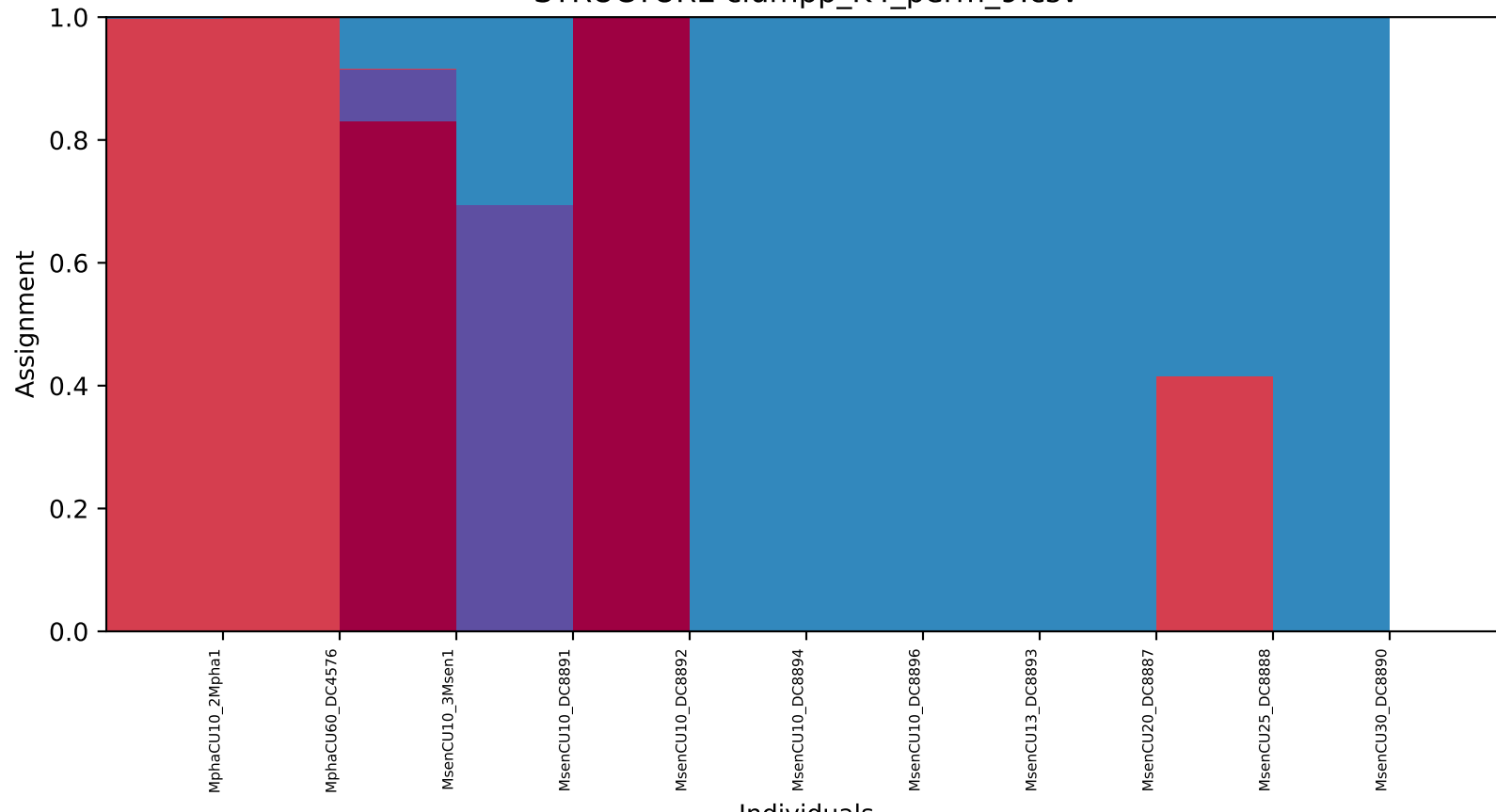
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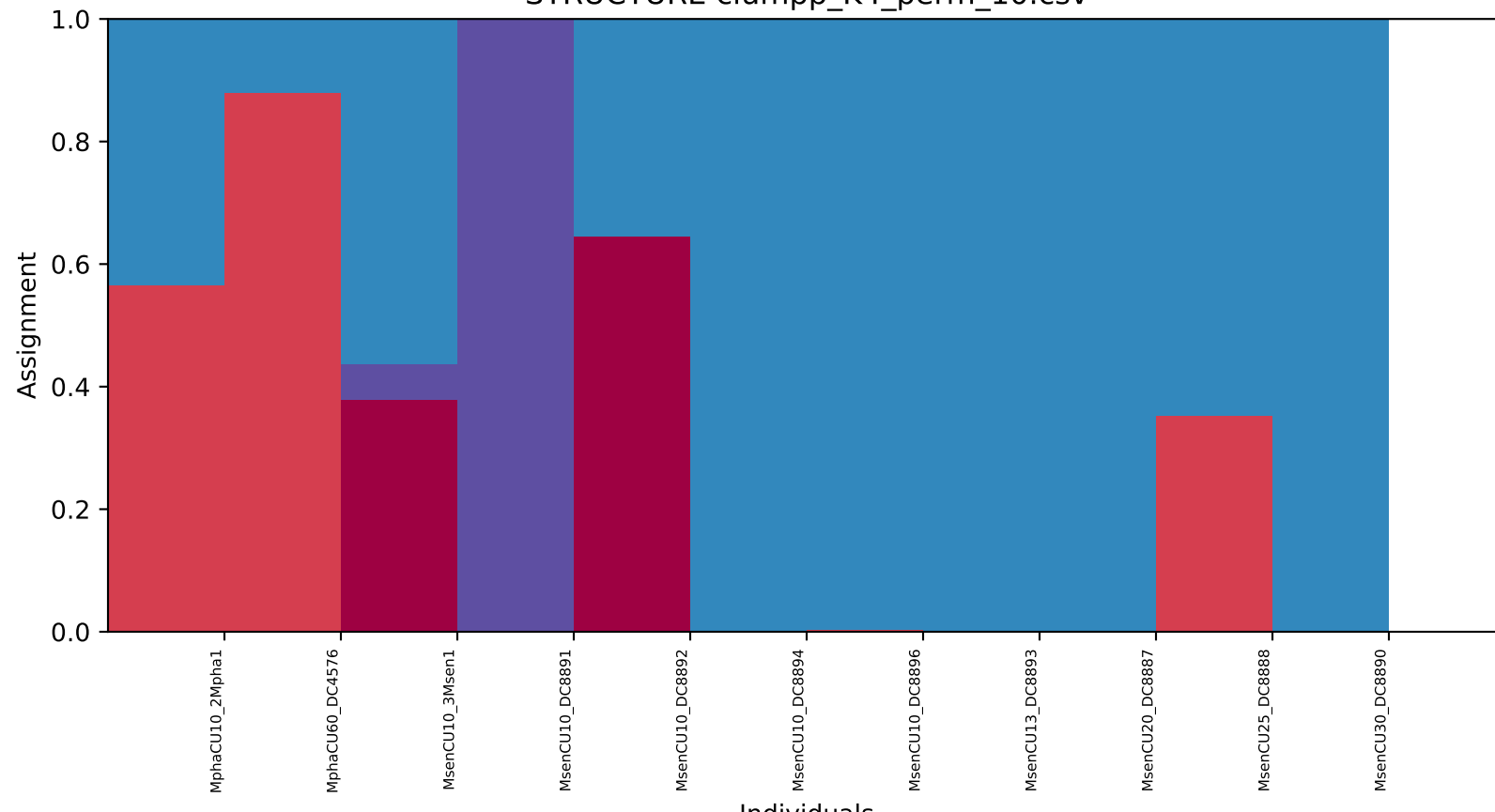
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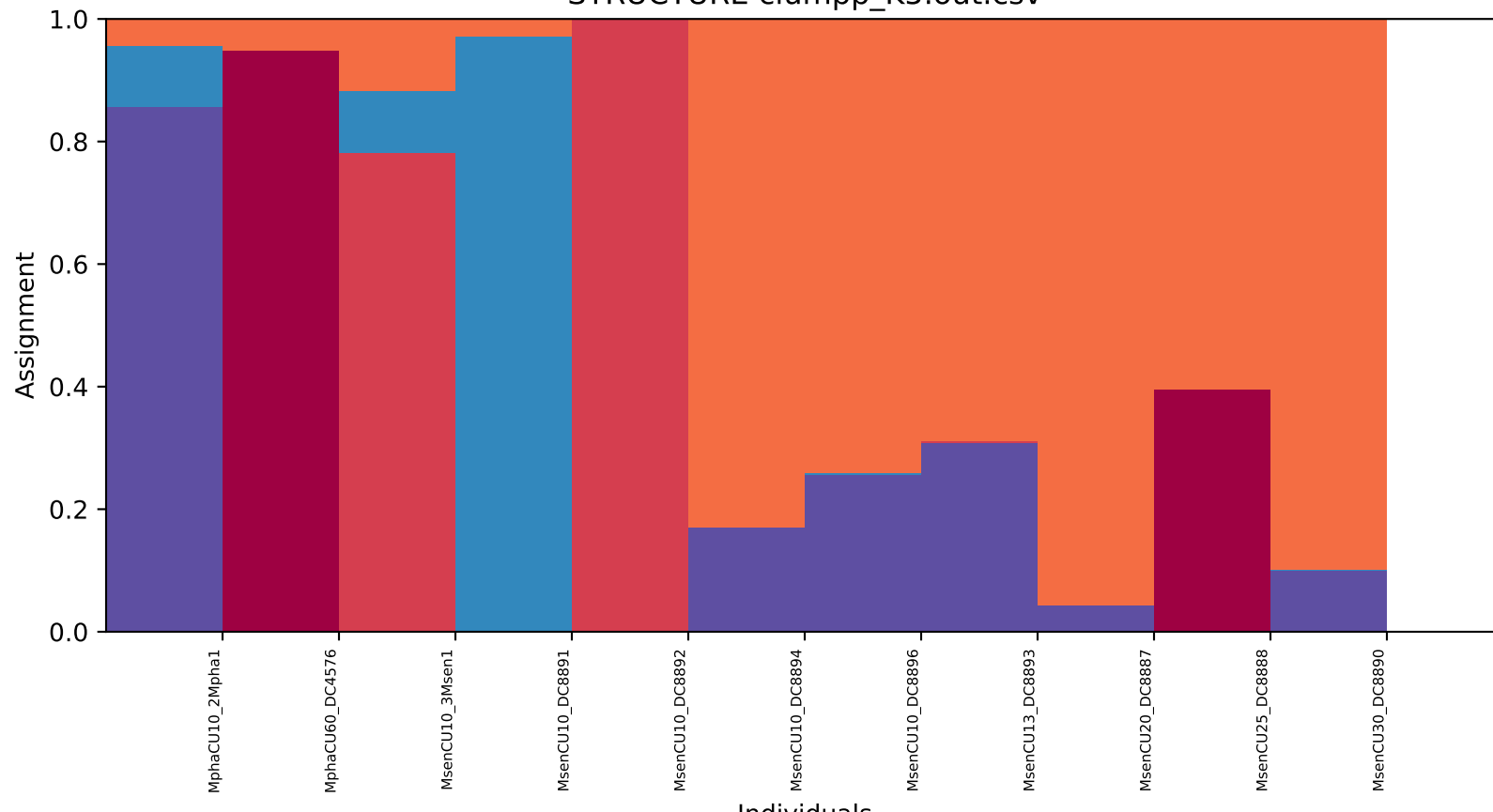
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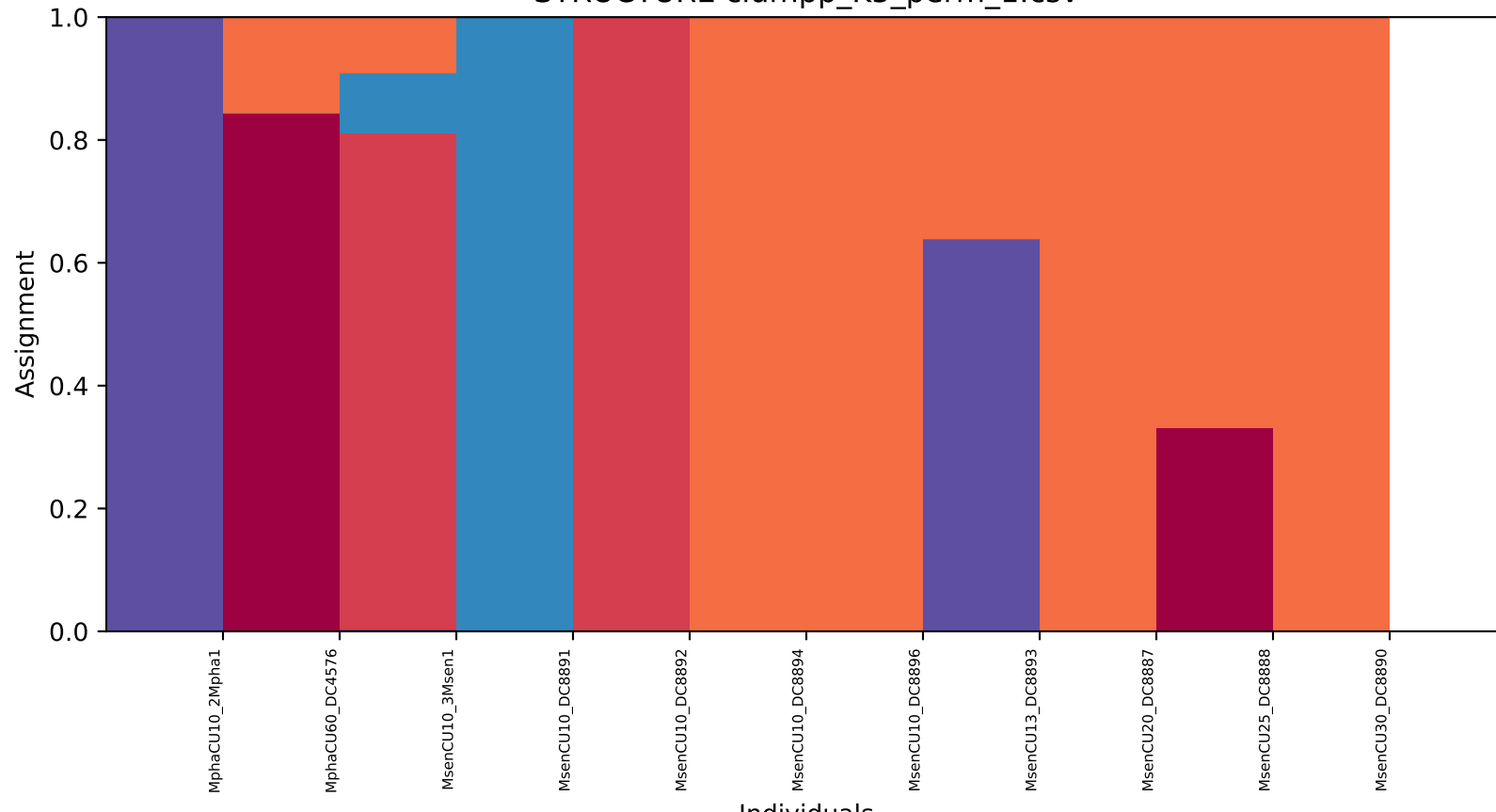
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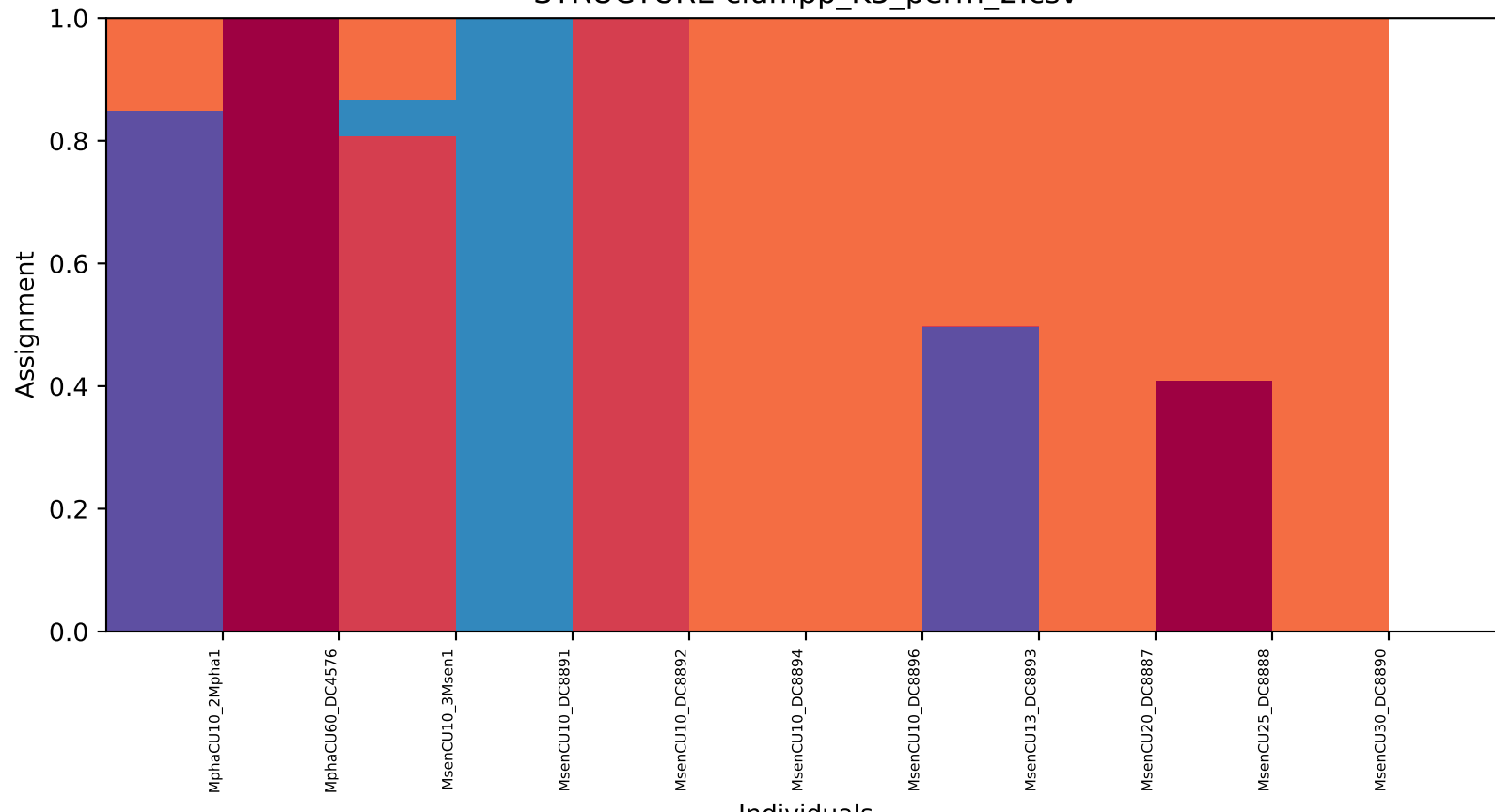
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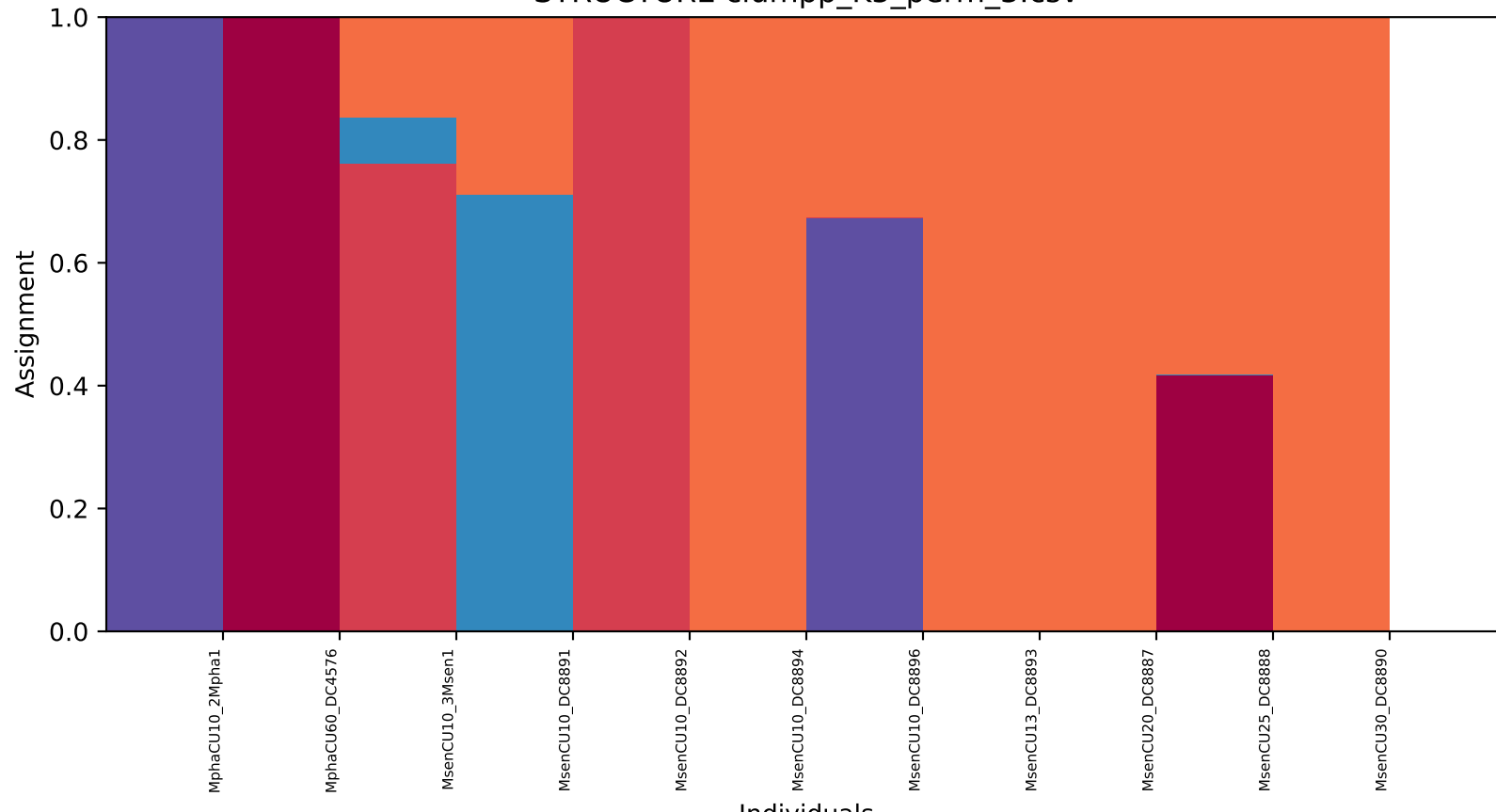
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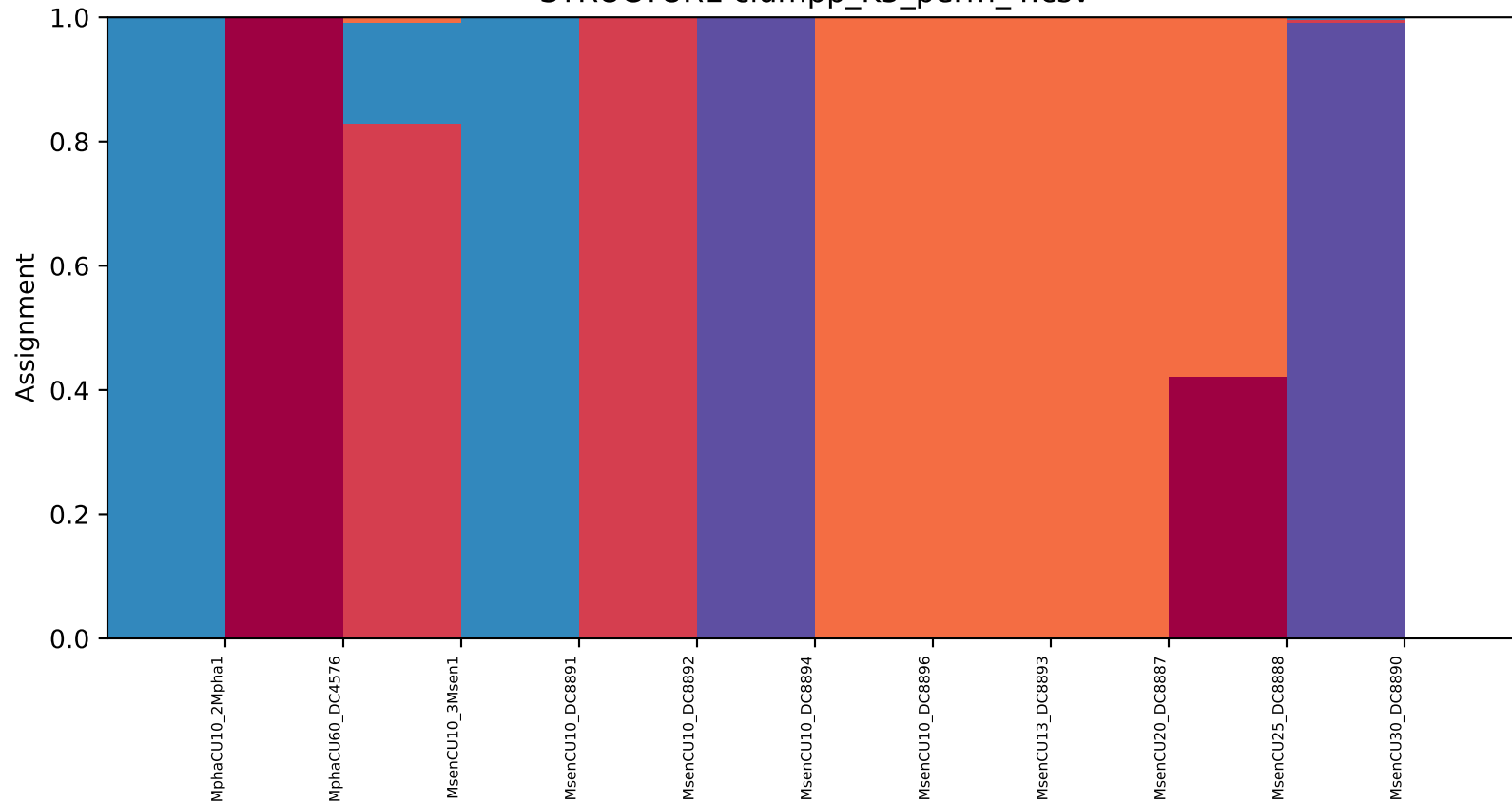
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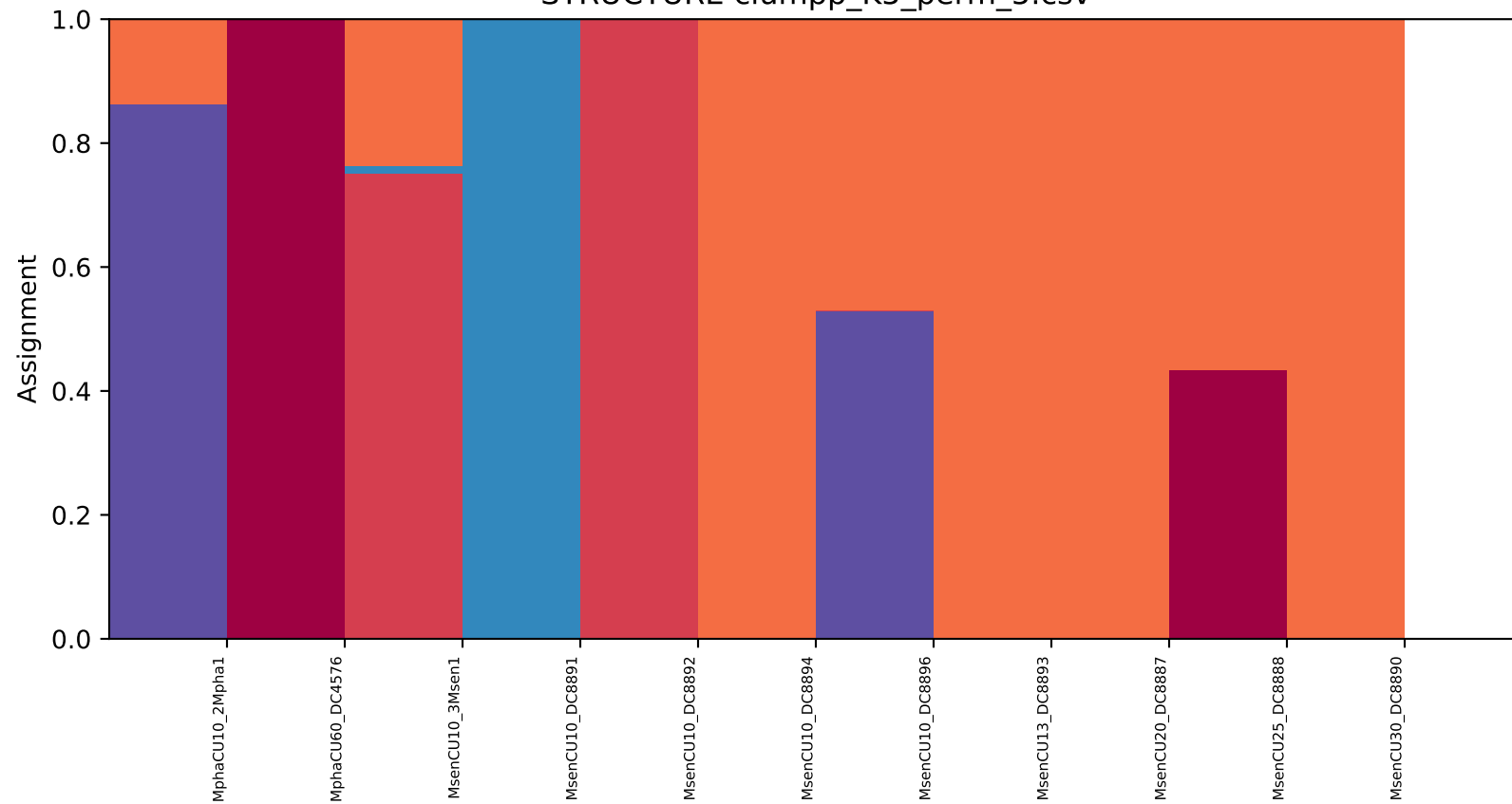
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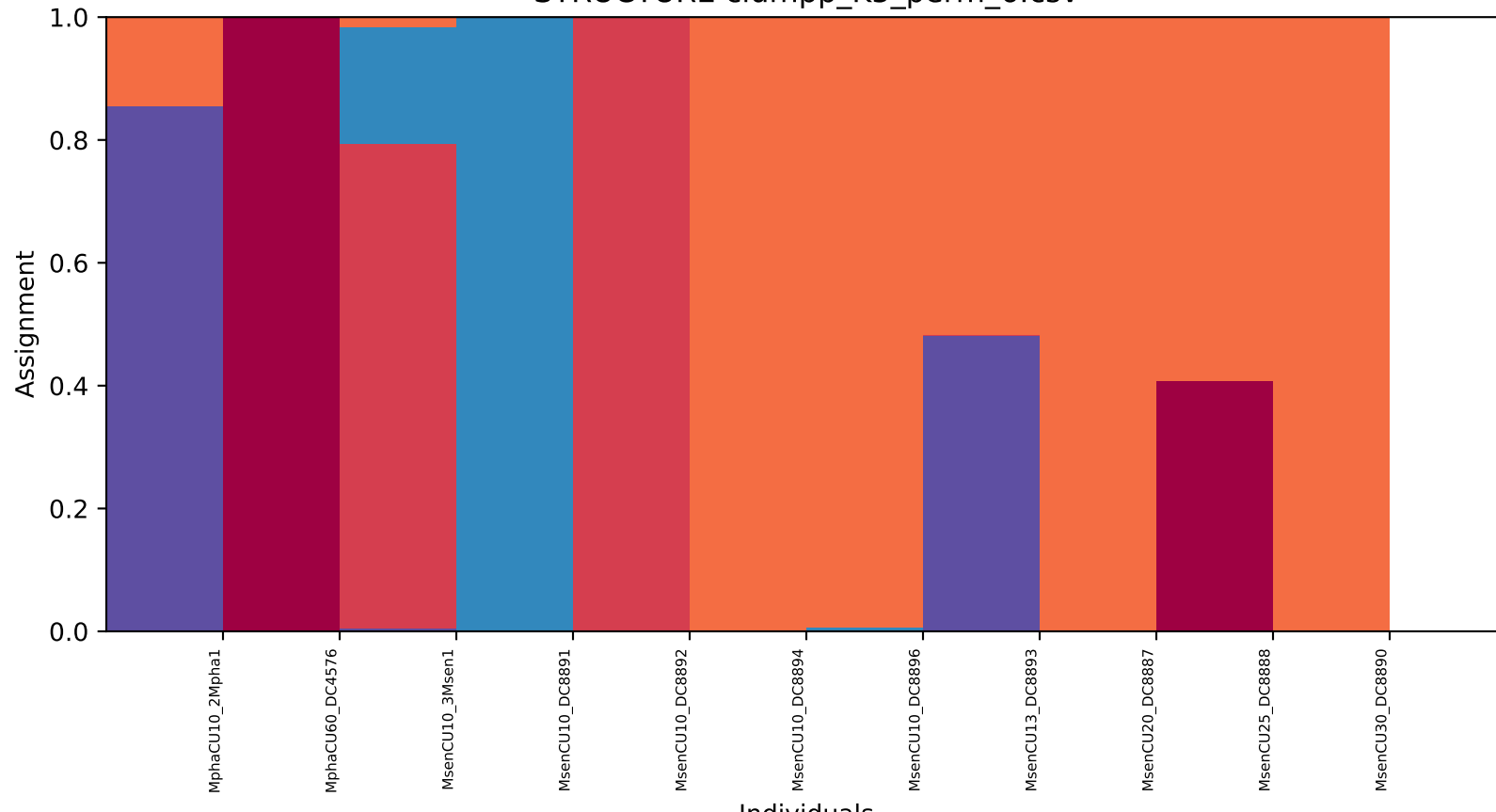
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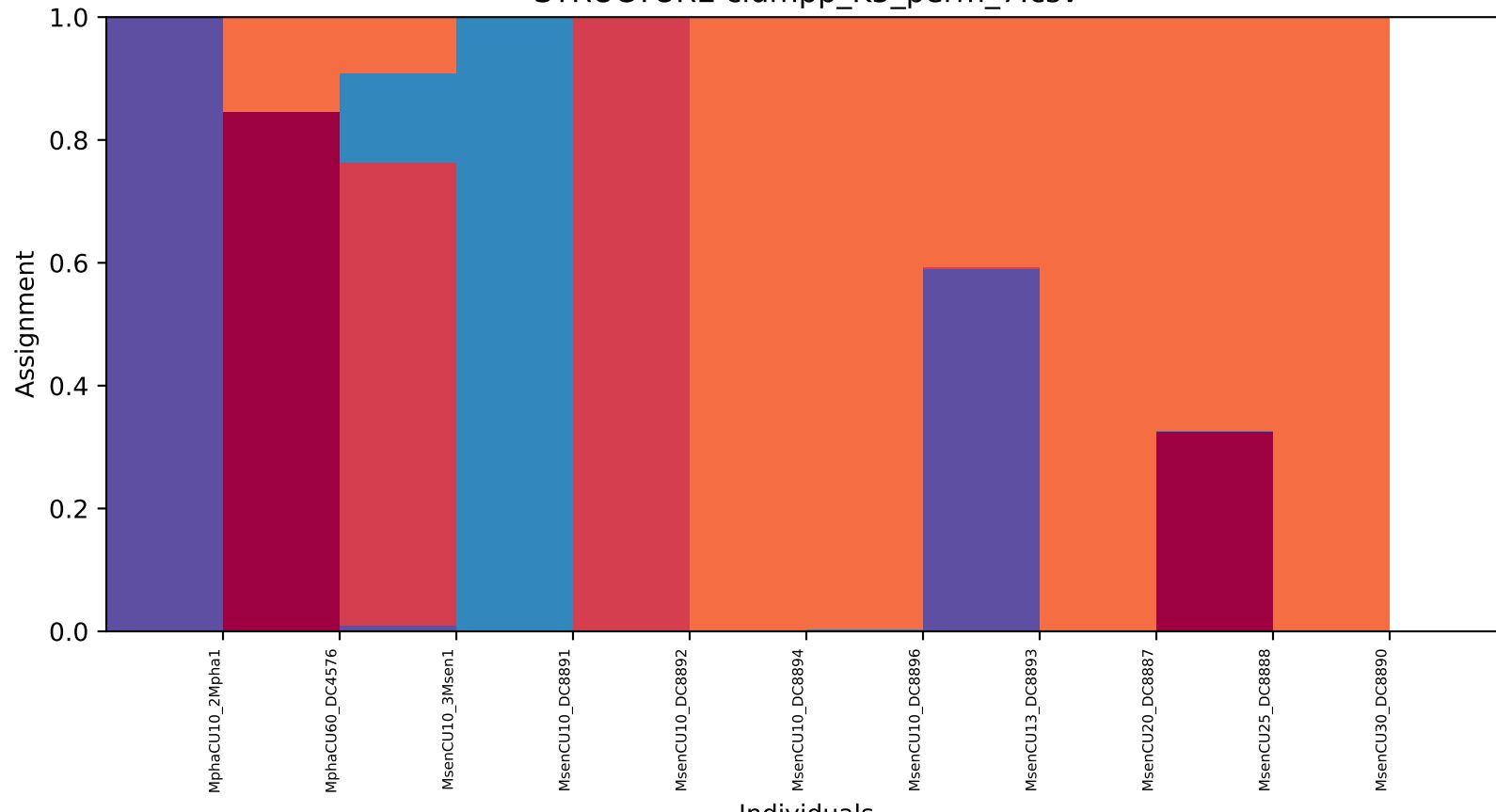
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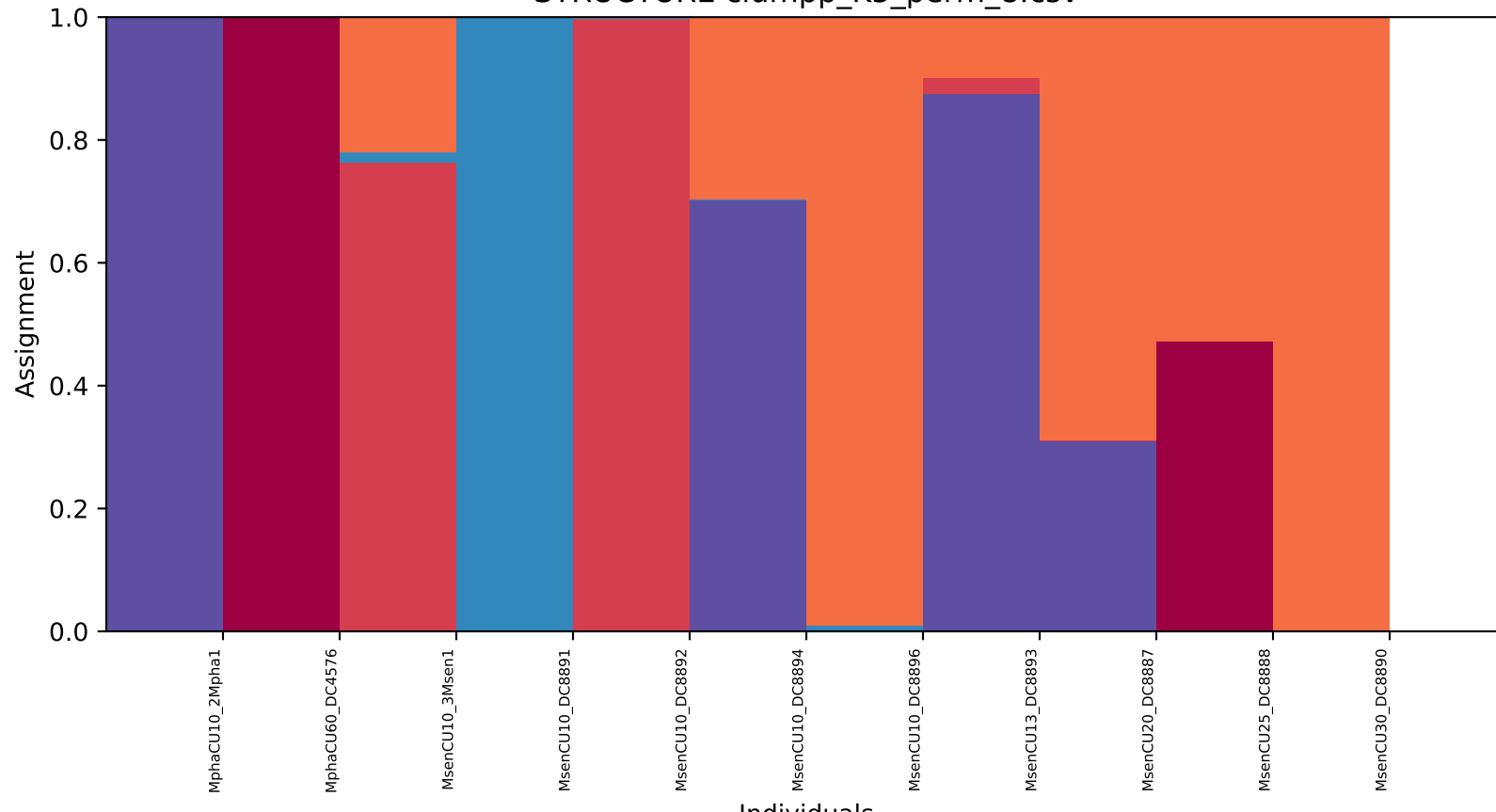
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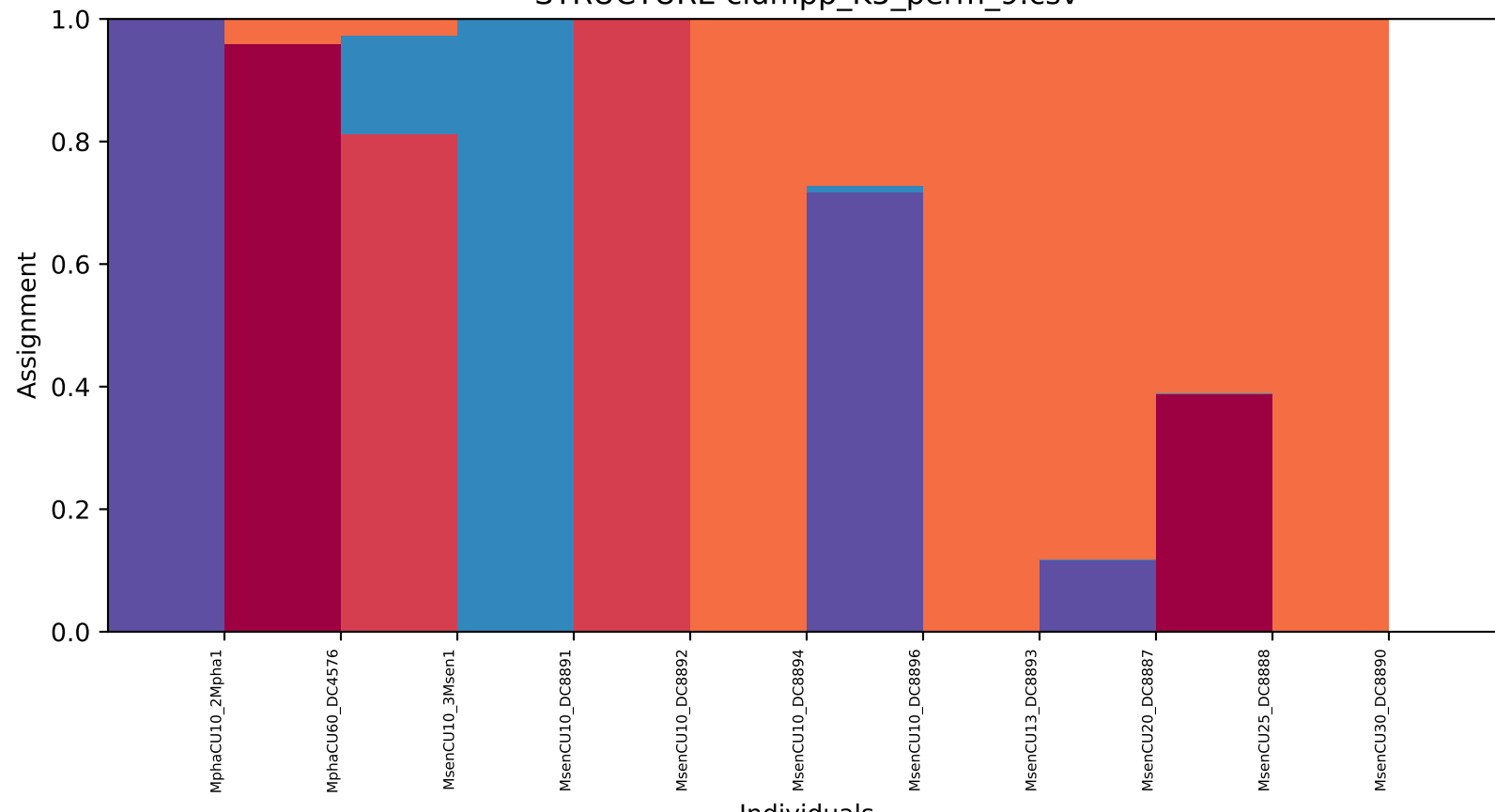
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STRUCTURE clump_K5_perm_8.csv



STRUCTURE clump_K5_perm_9.csv



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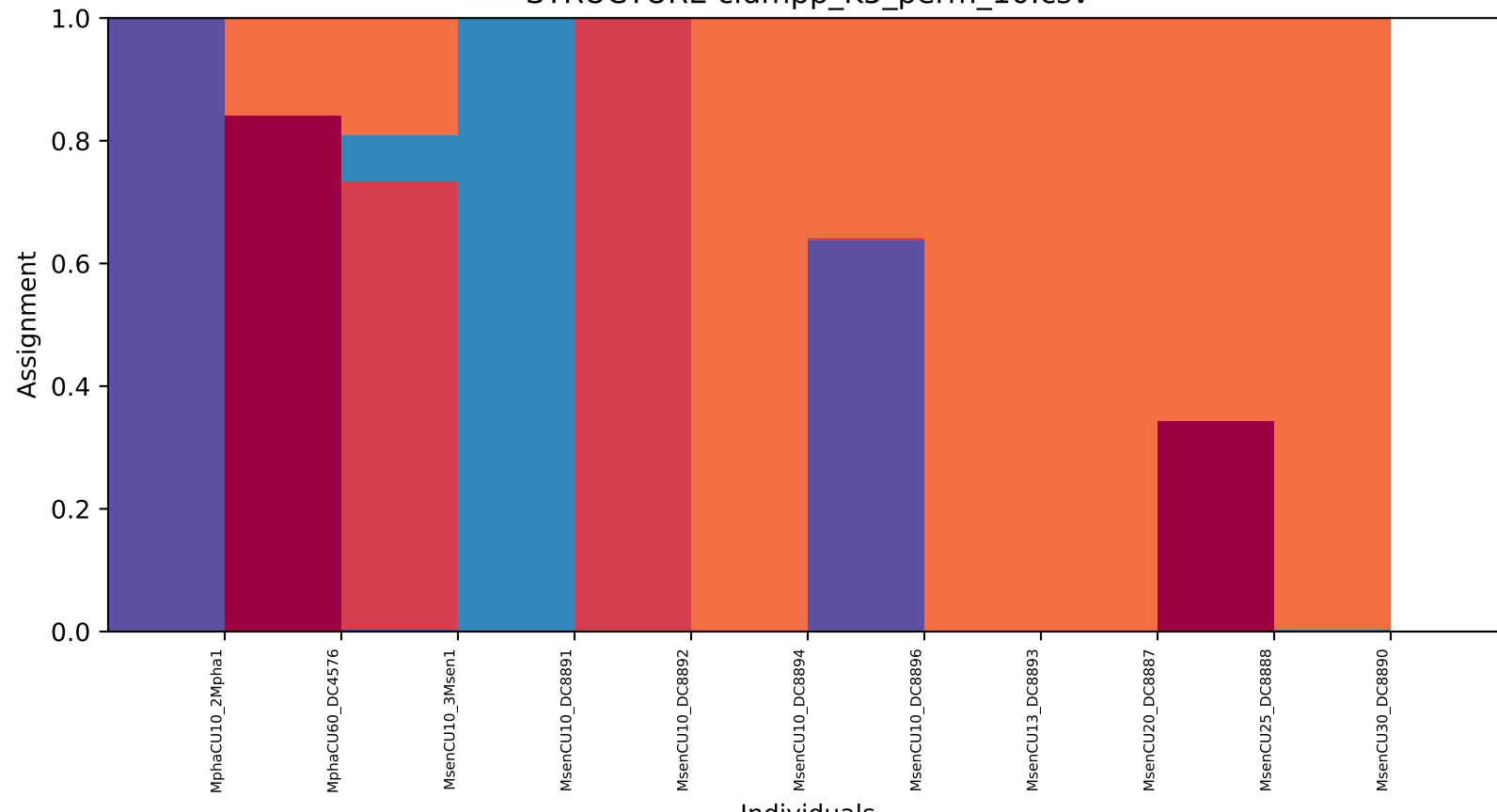
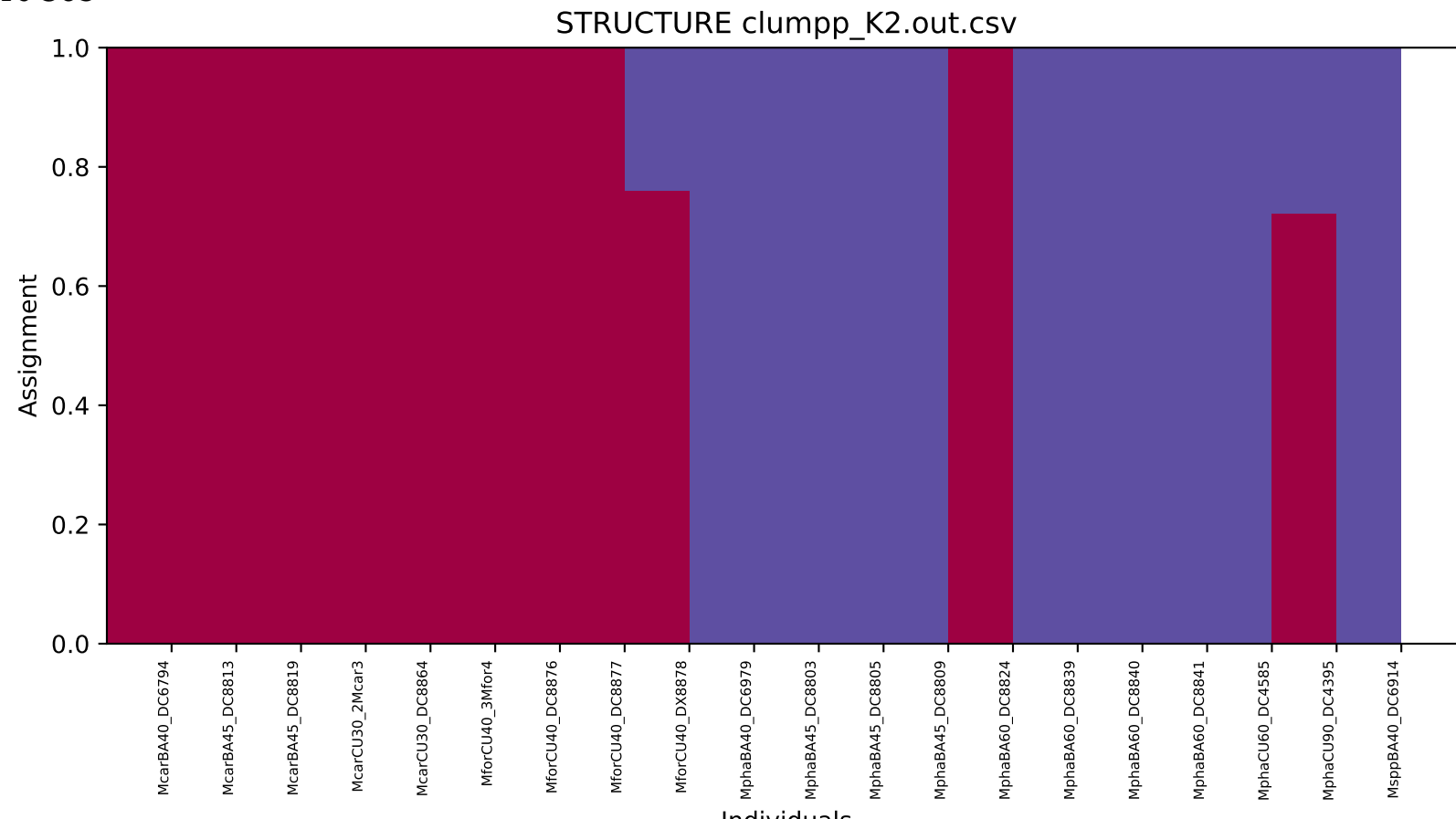
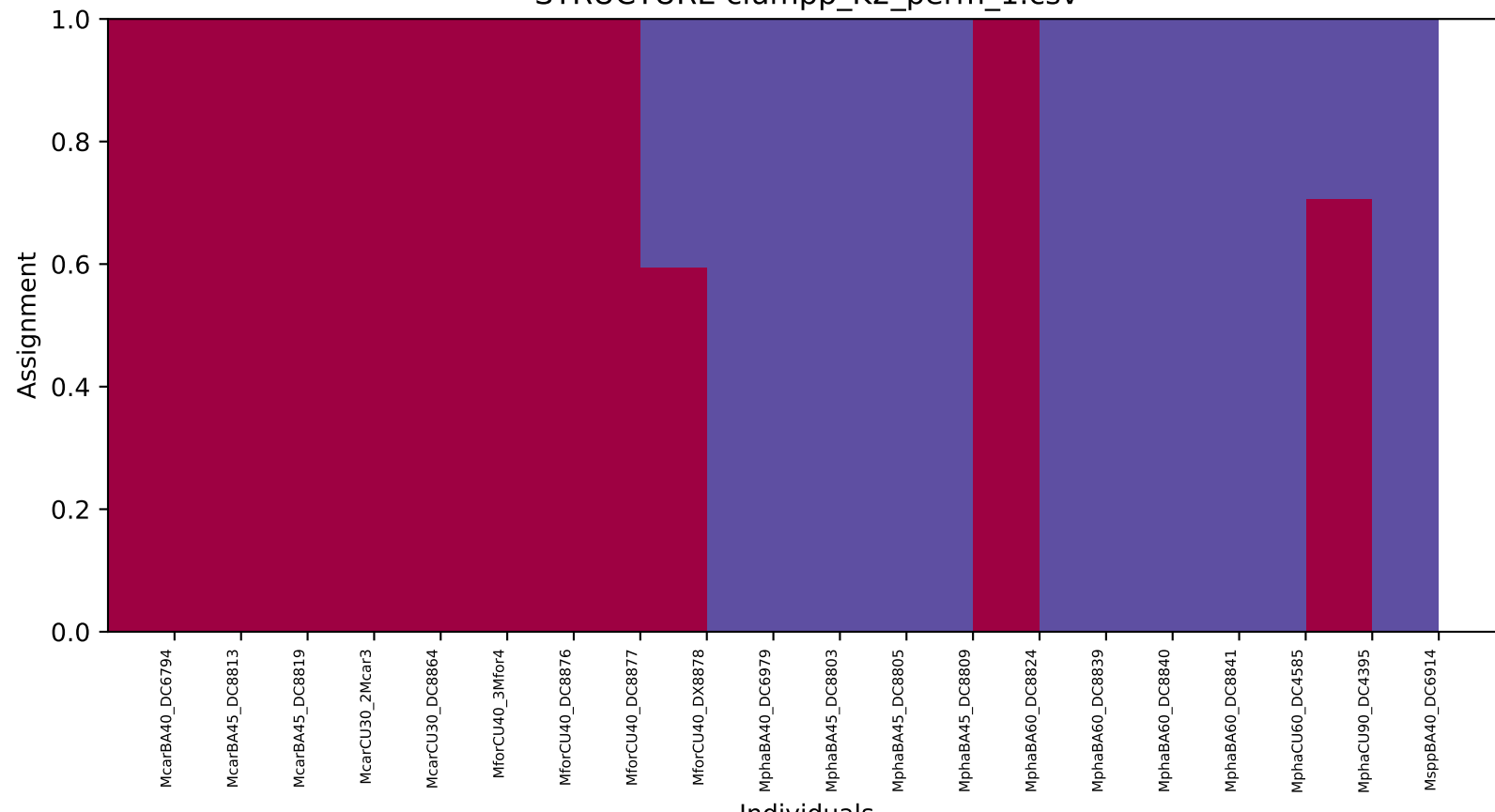


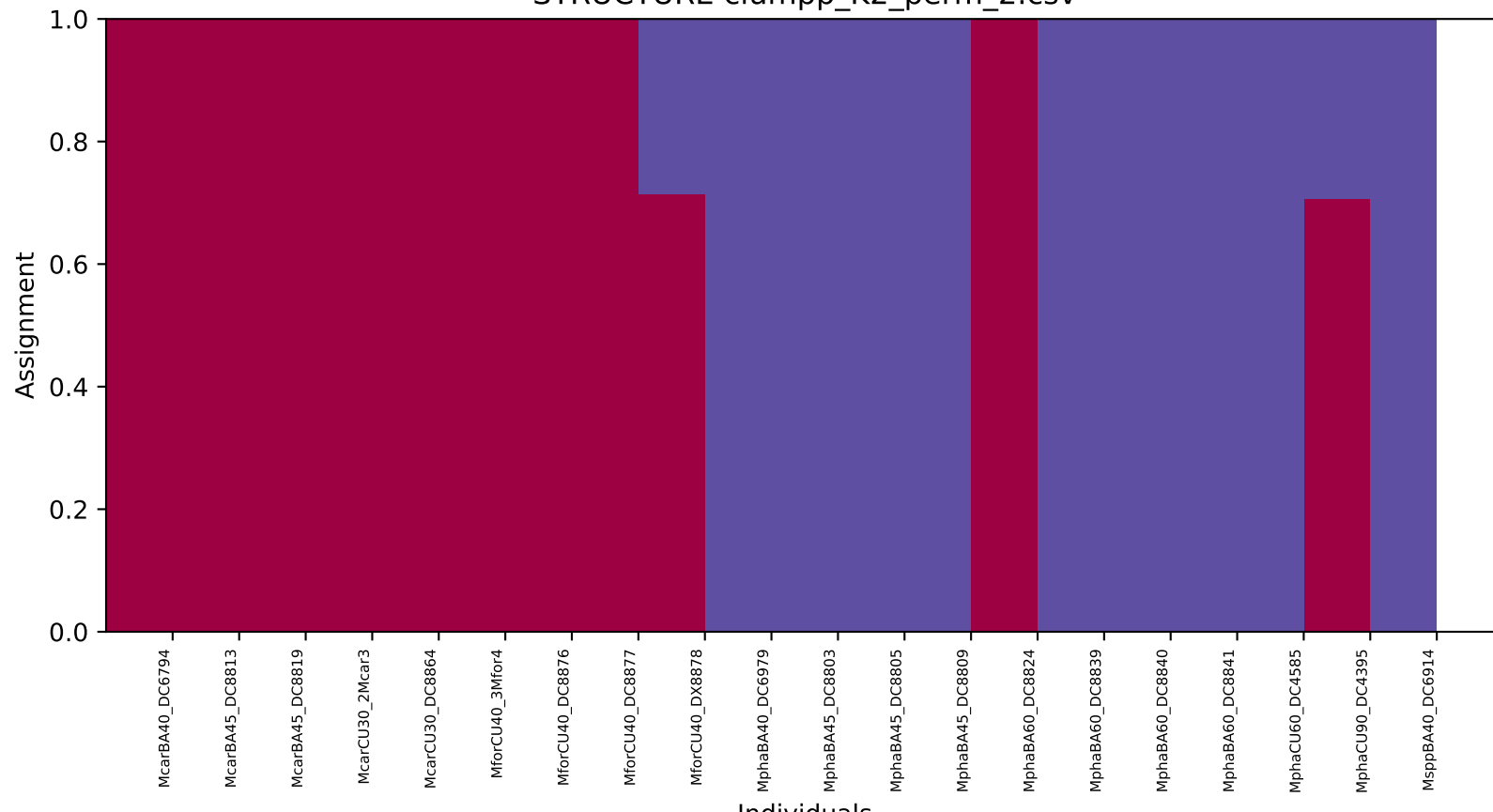
Figure S6b



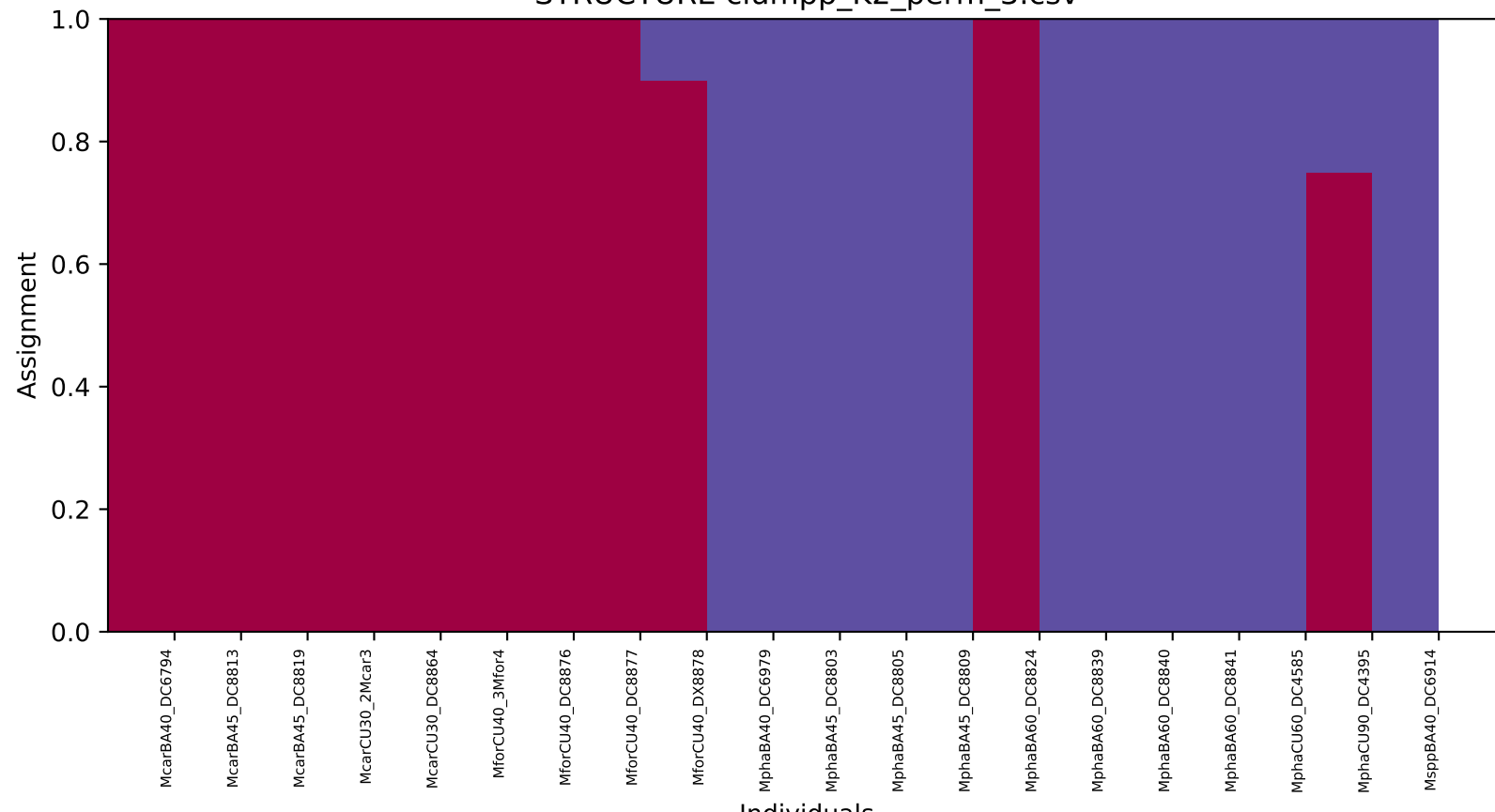
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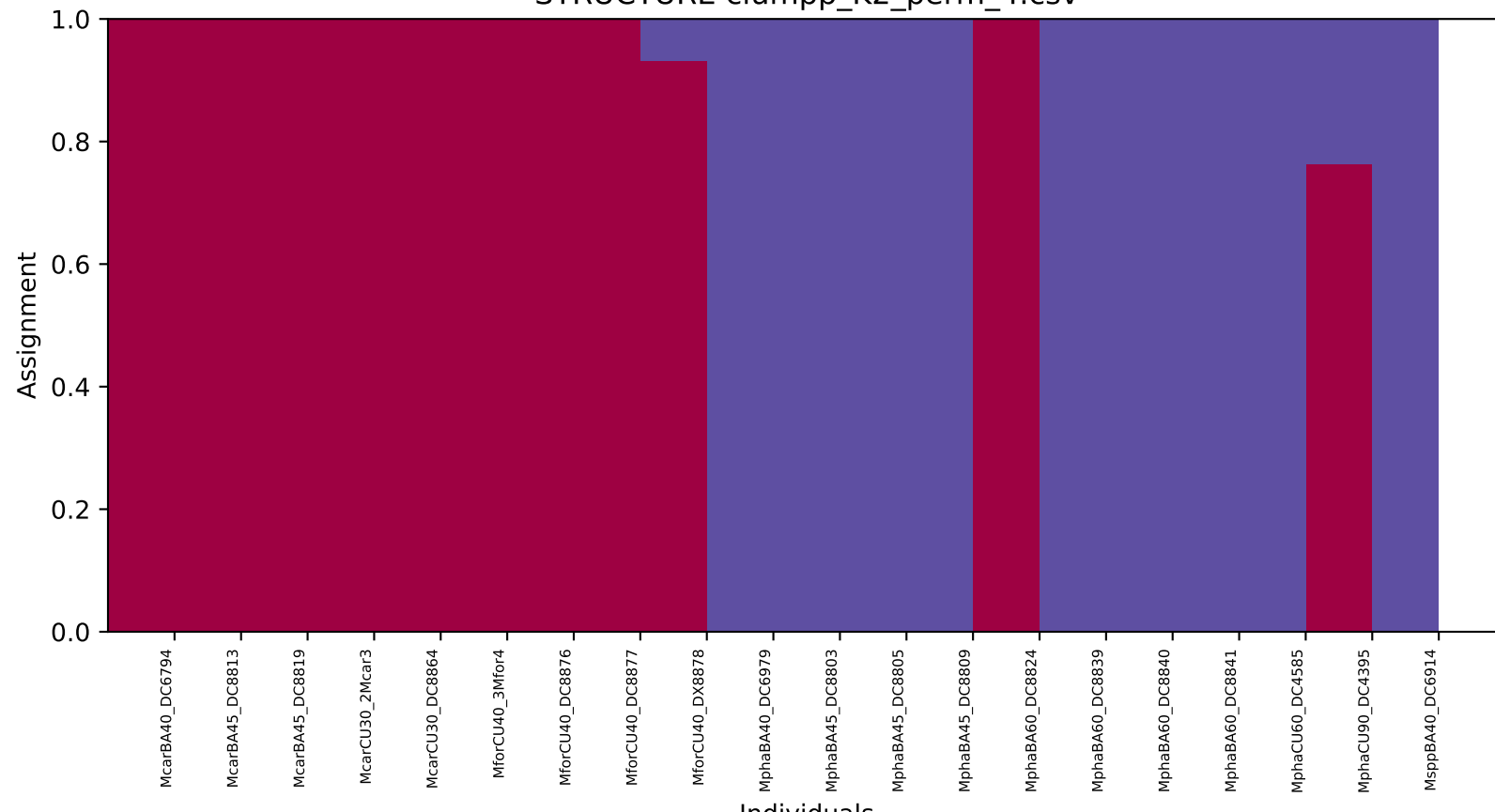
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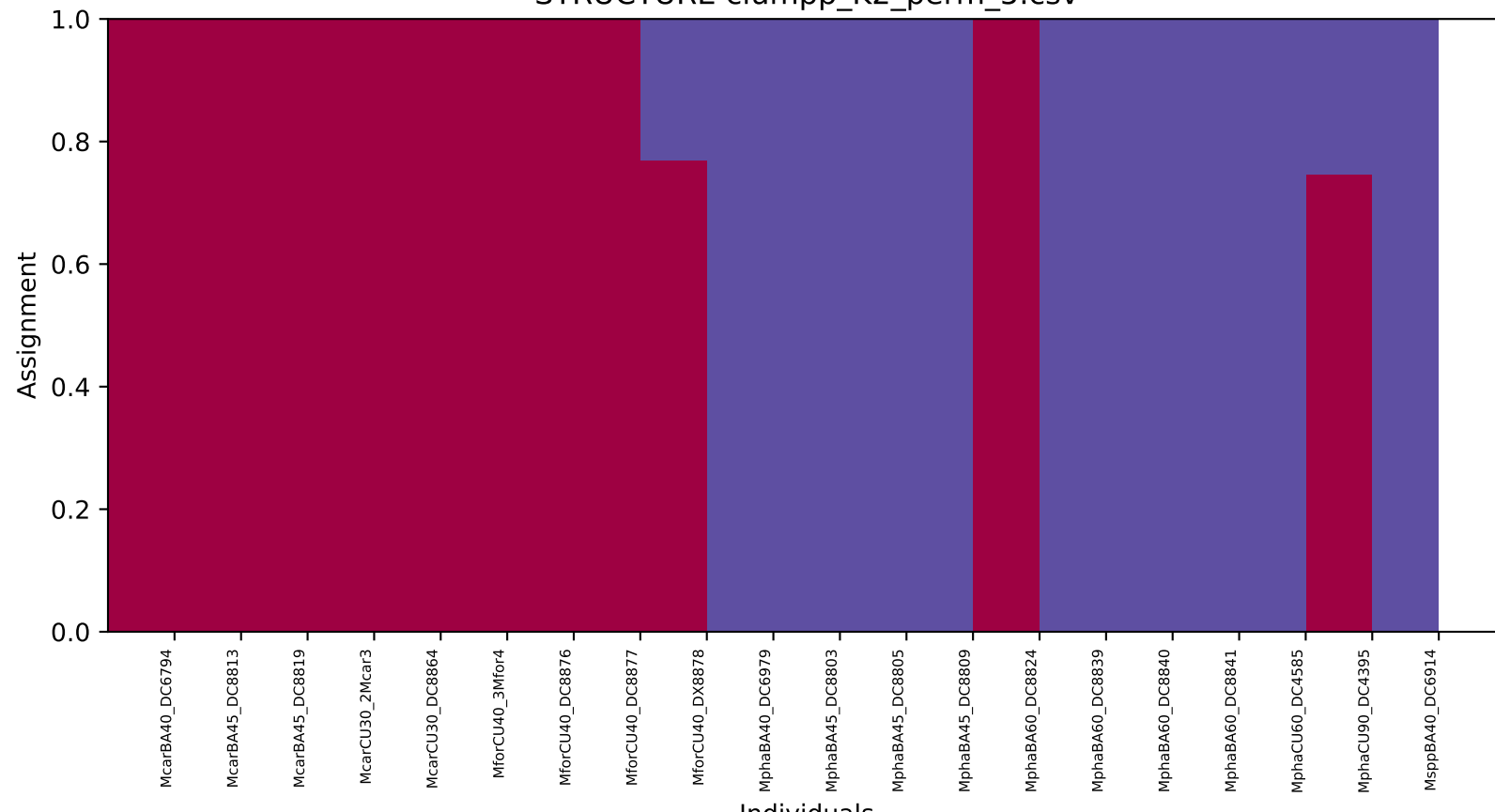
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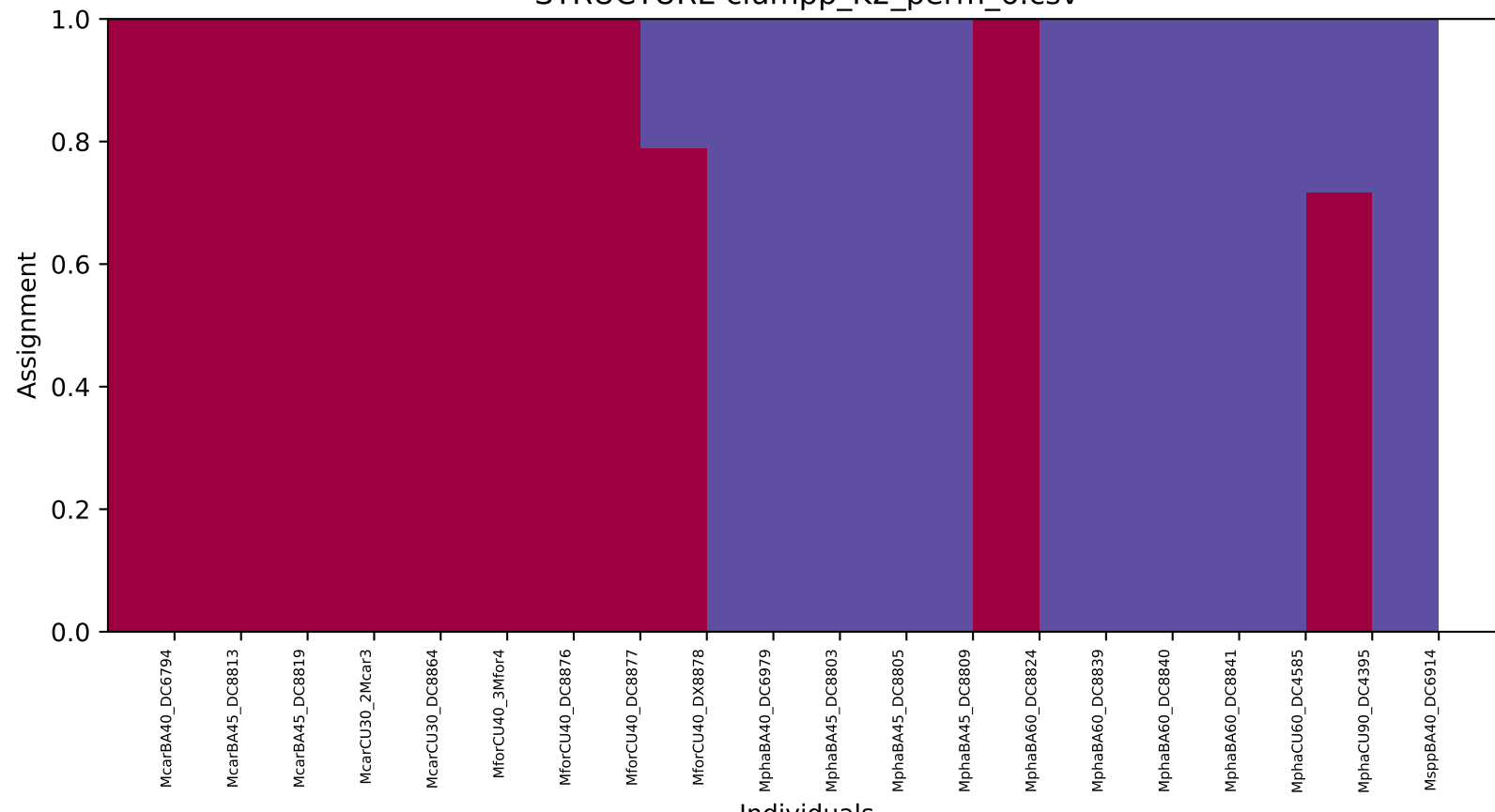
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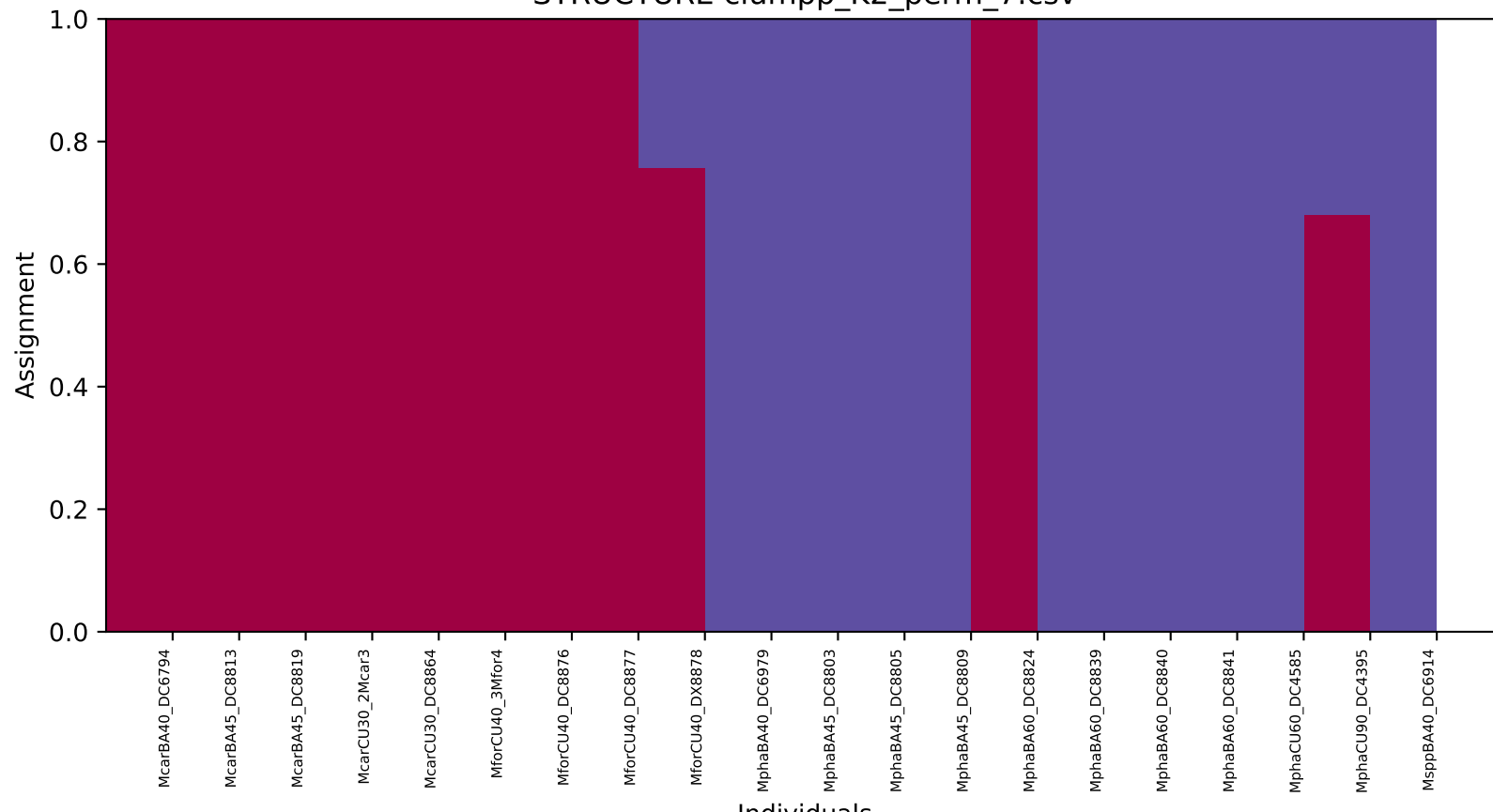
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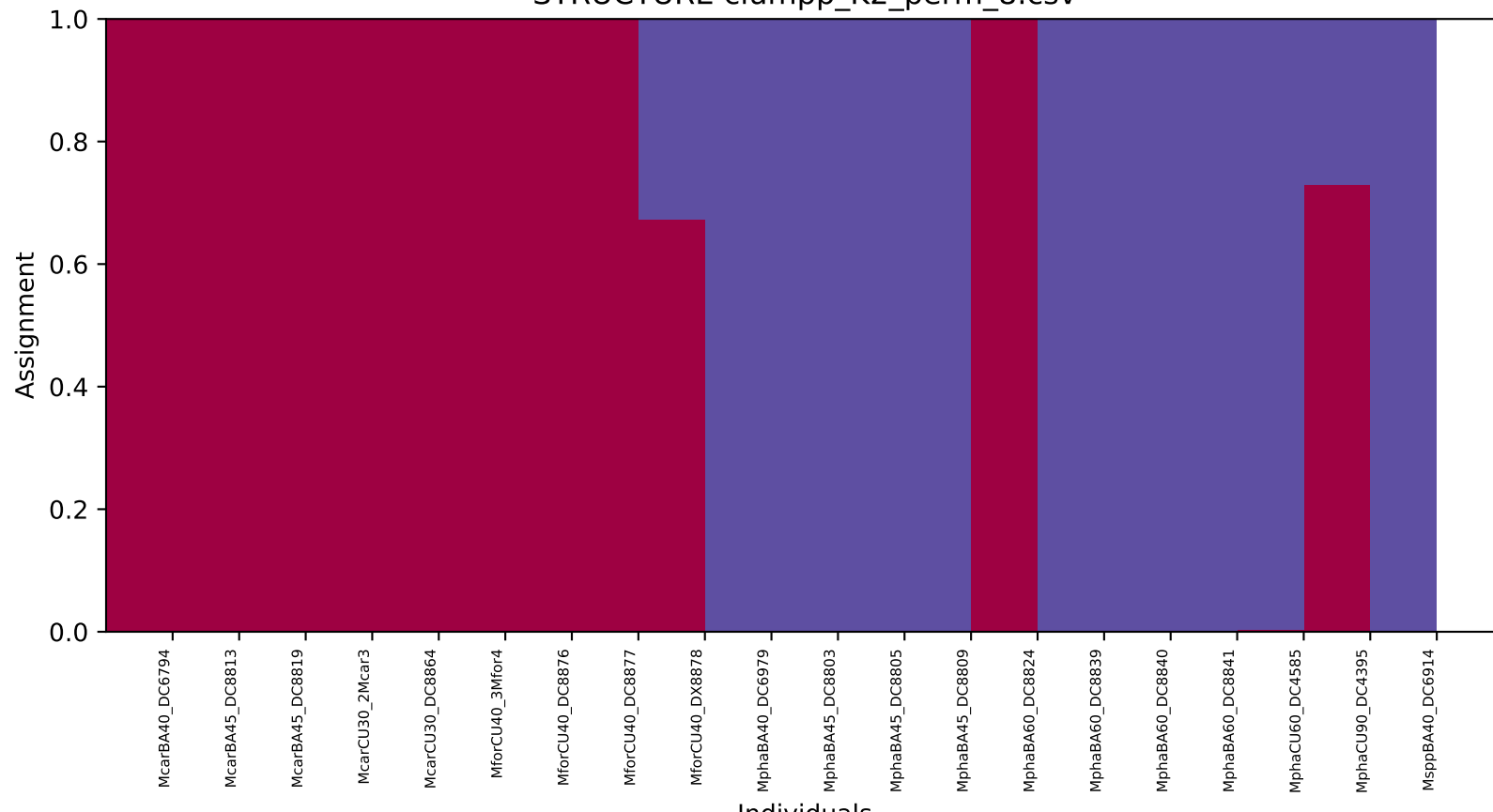
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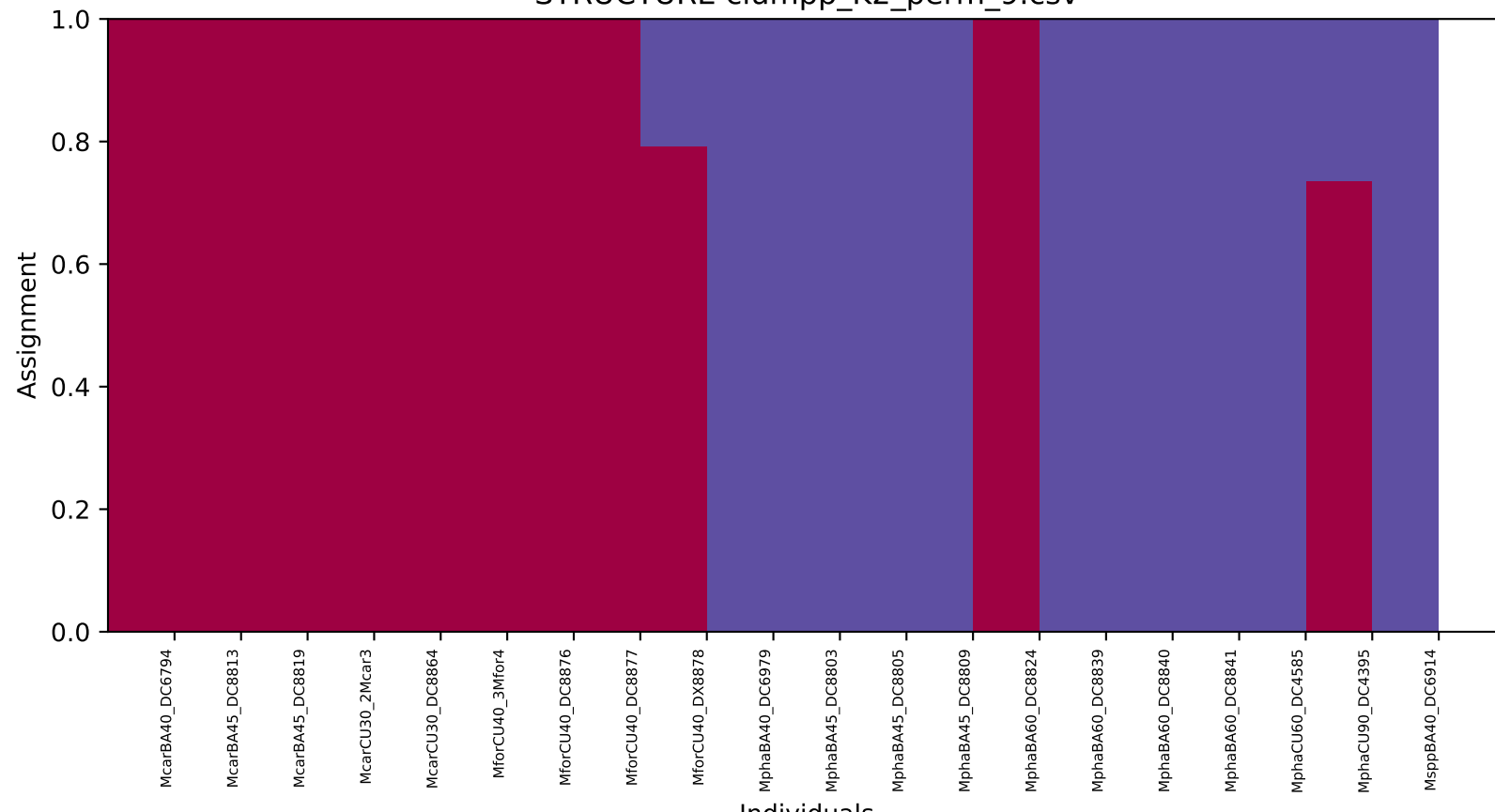
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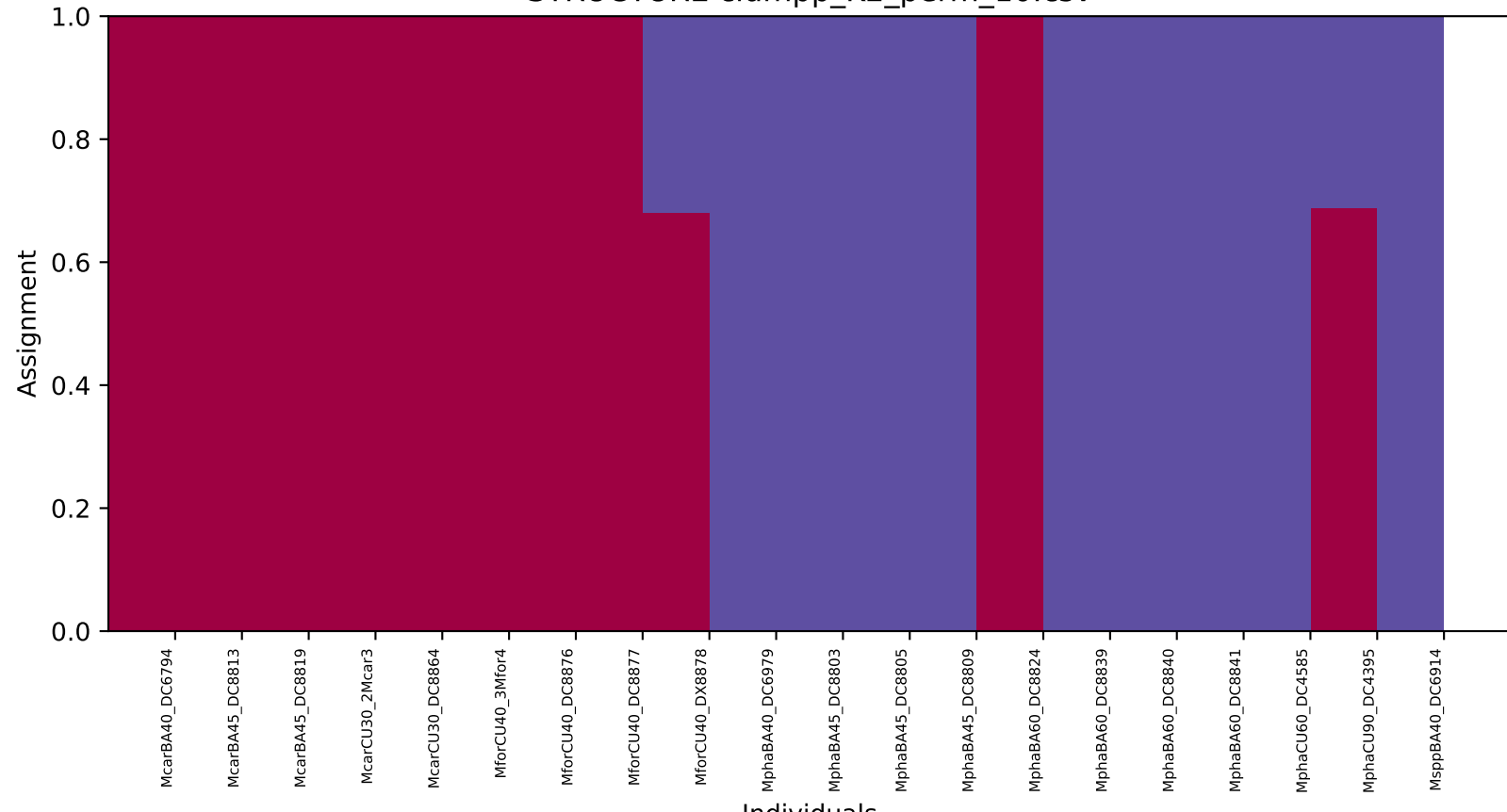
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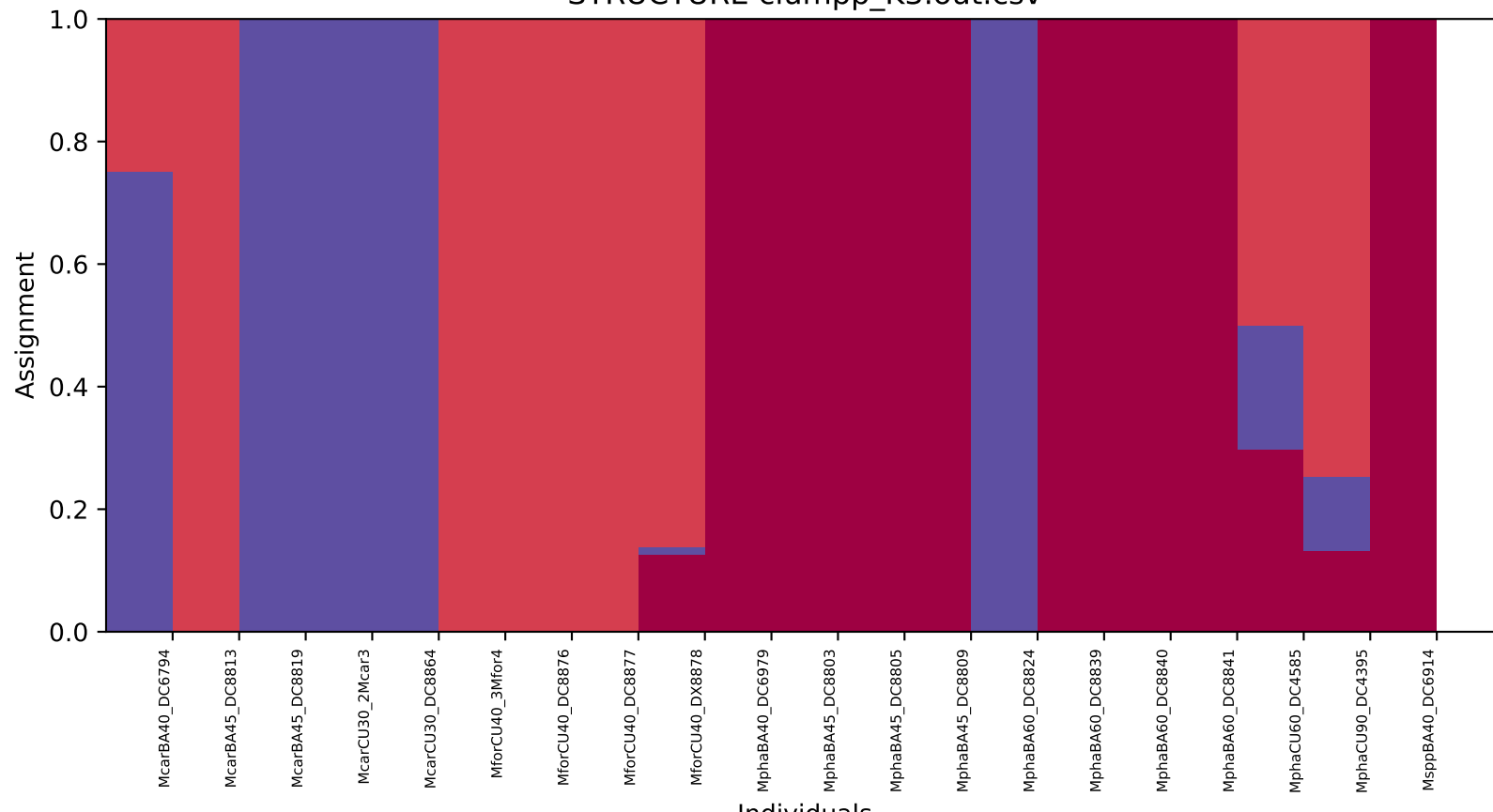
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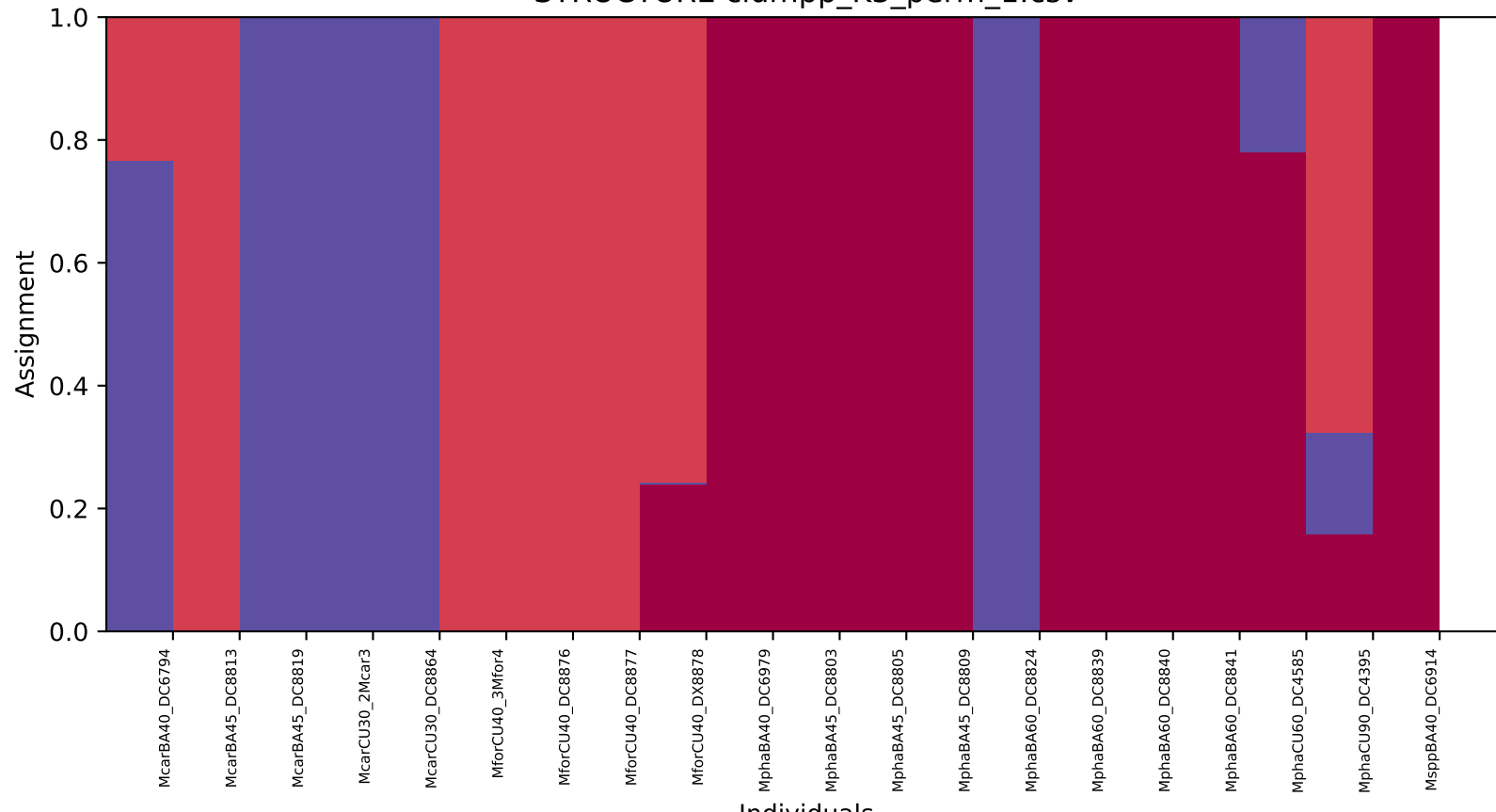
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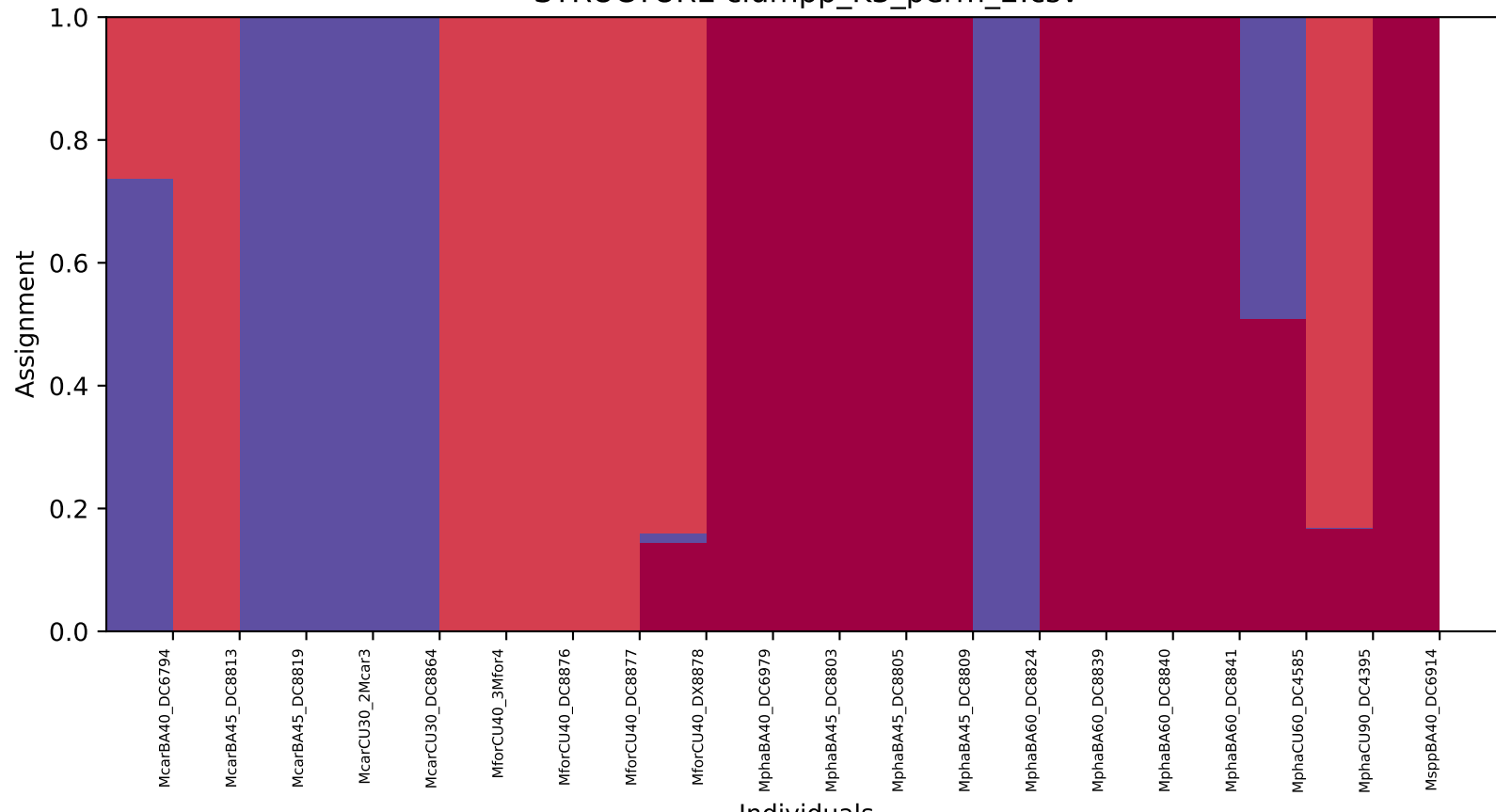
STRUCTURE clump_K3.out.csv



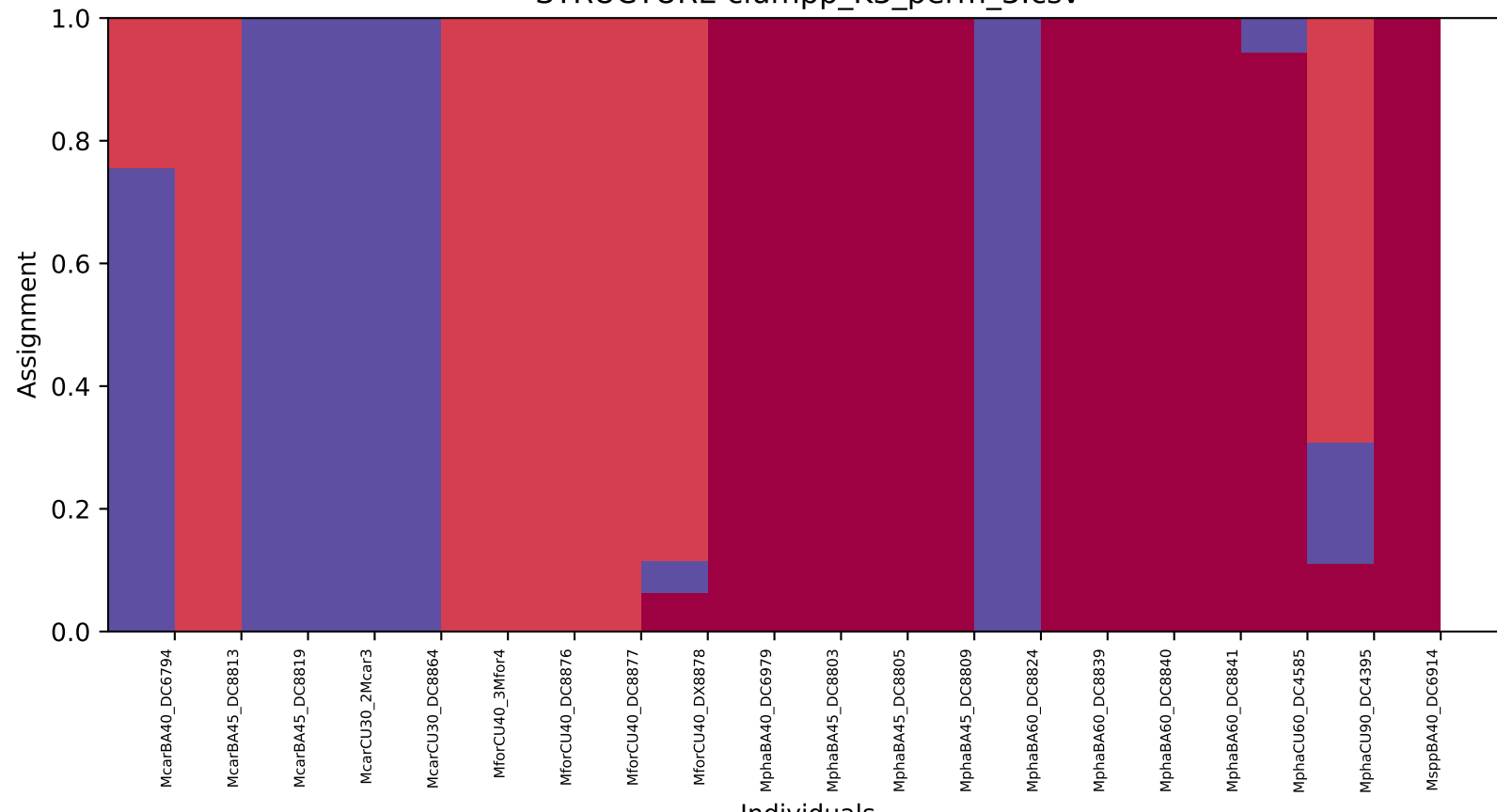
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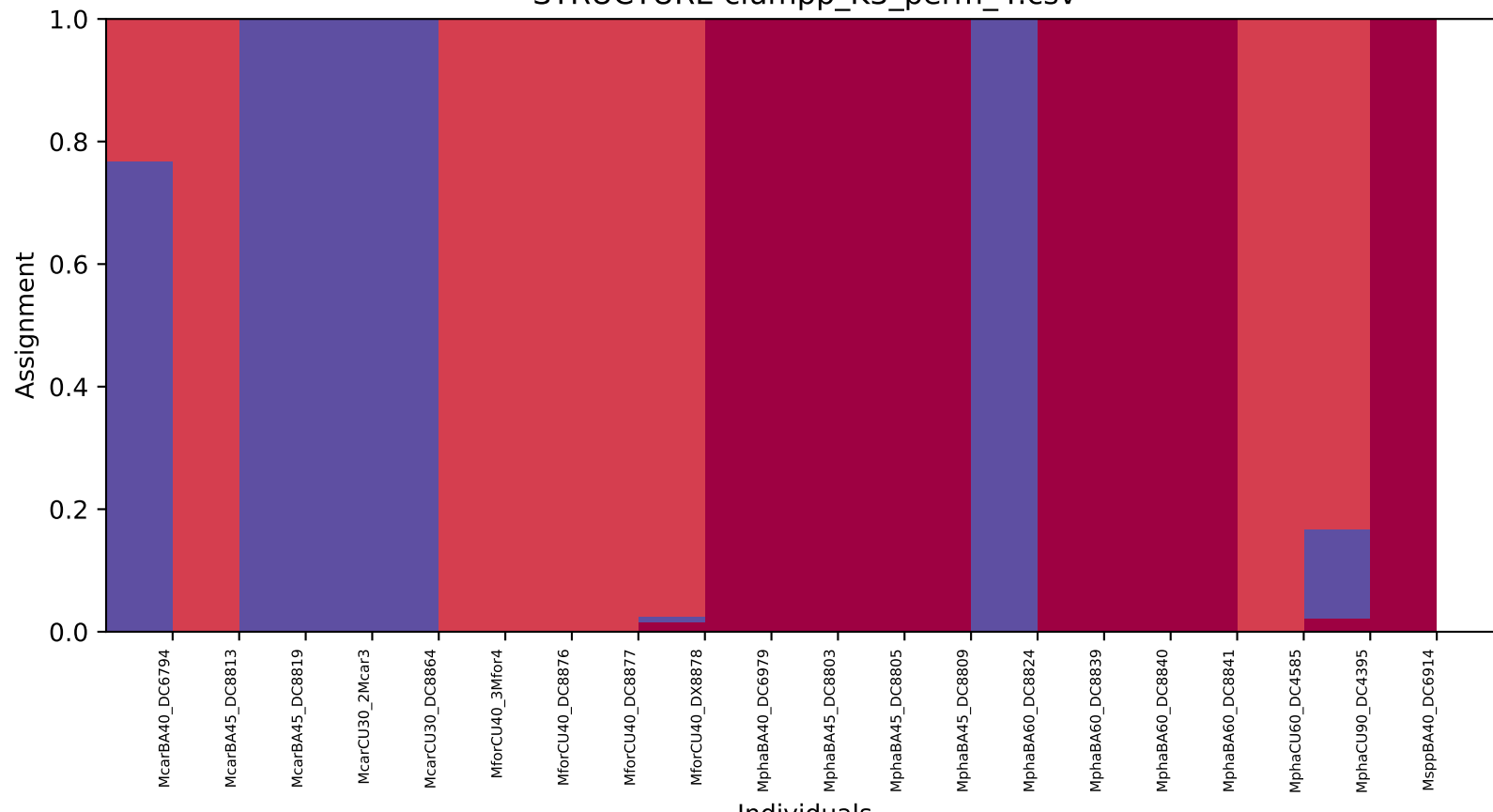
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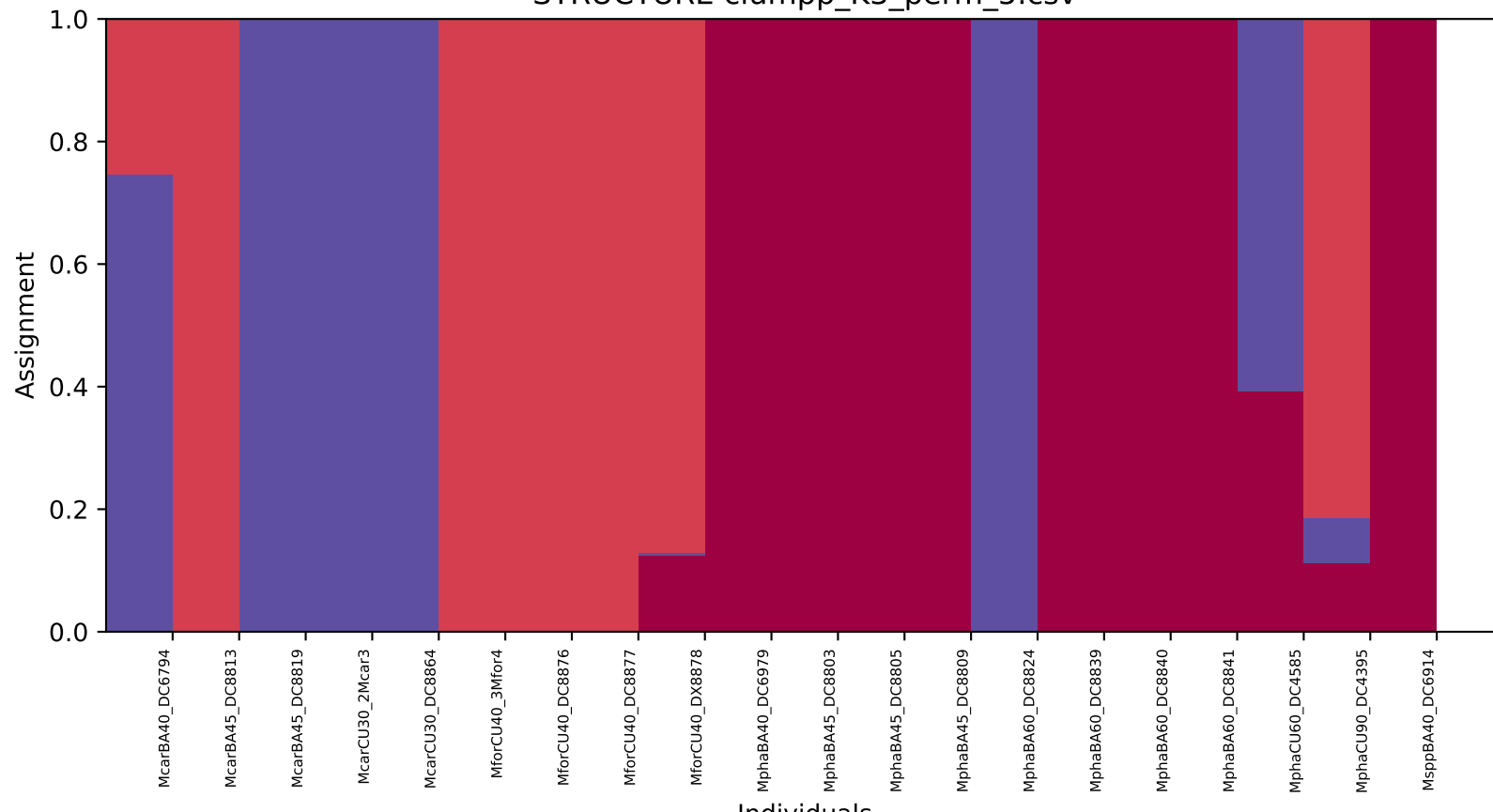
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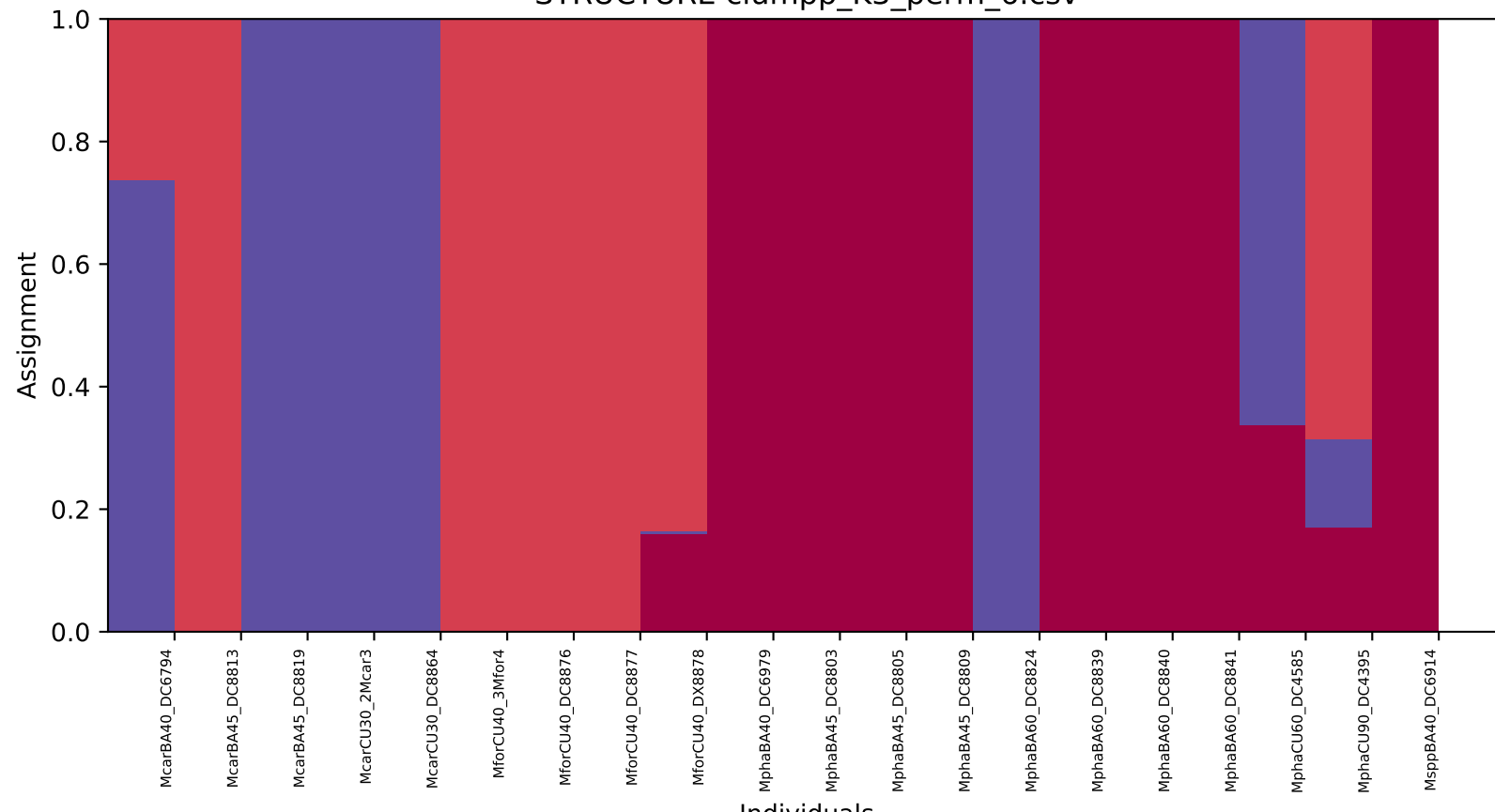
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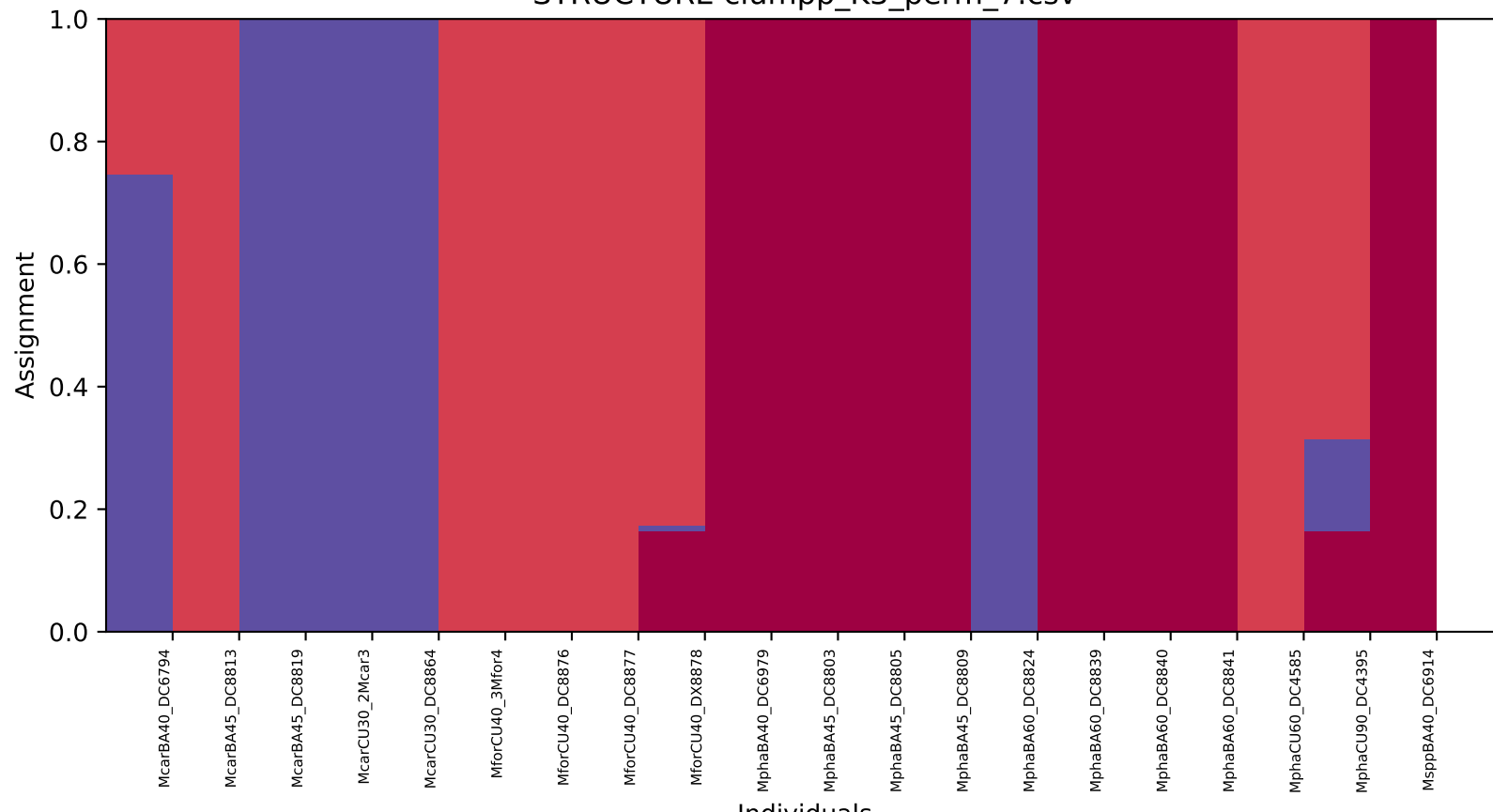
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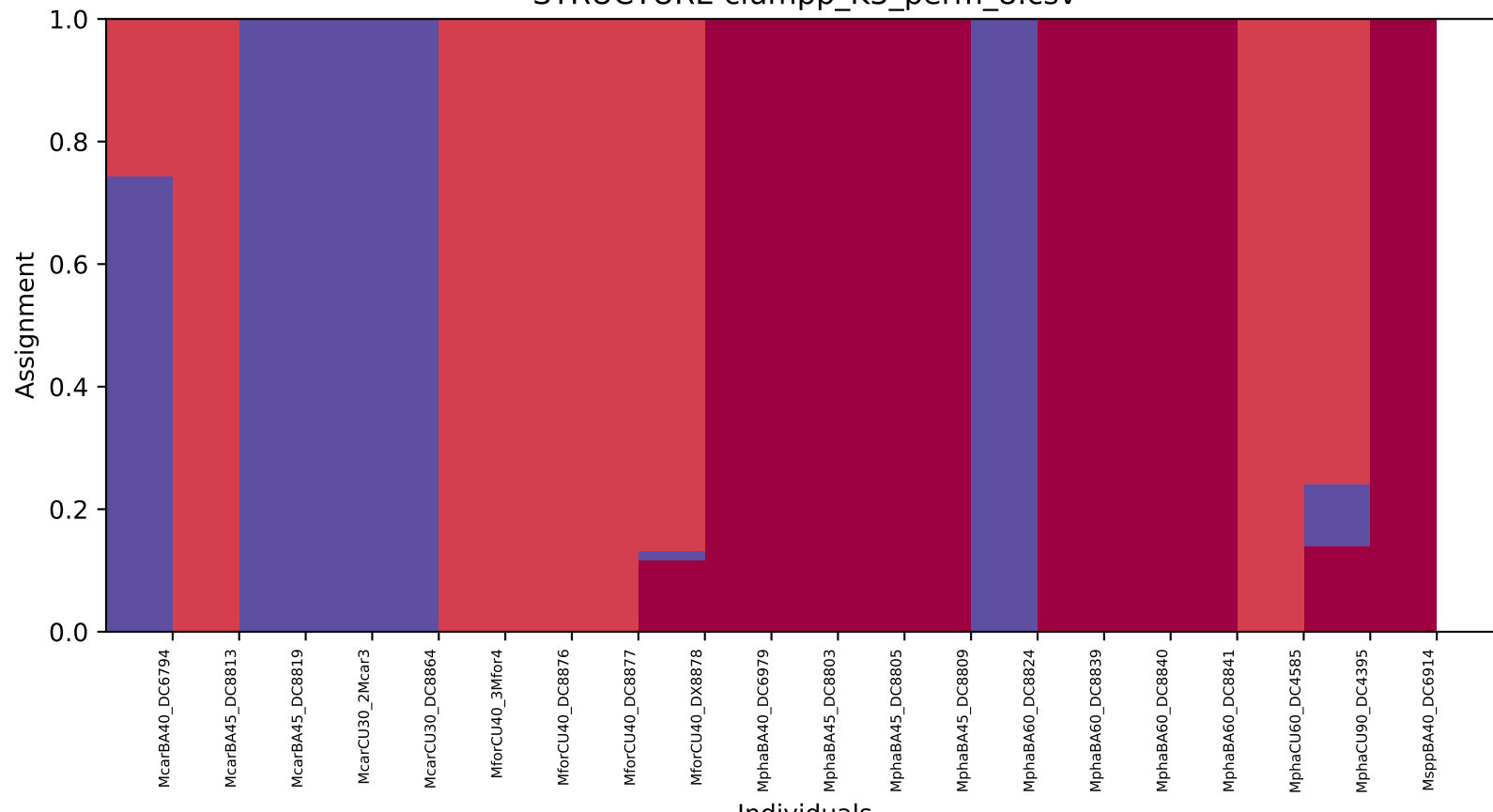
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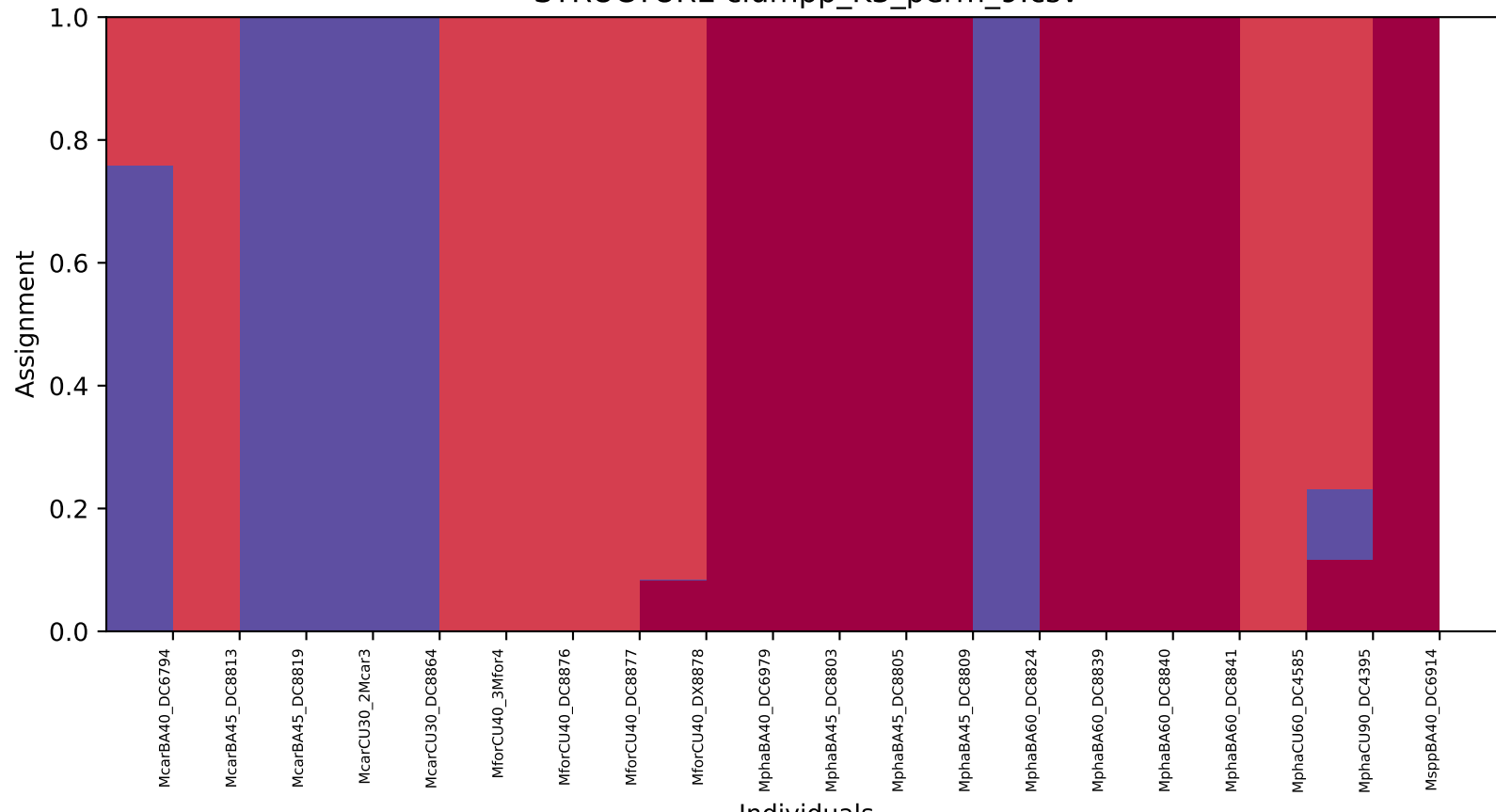
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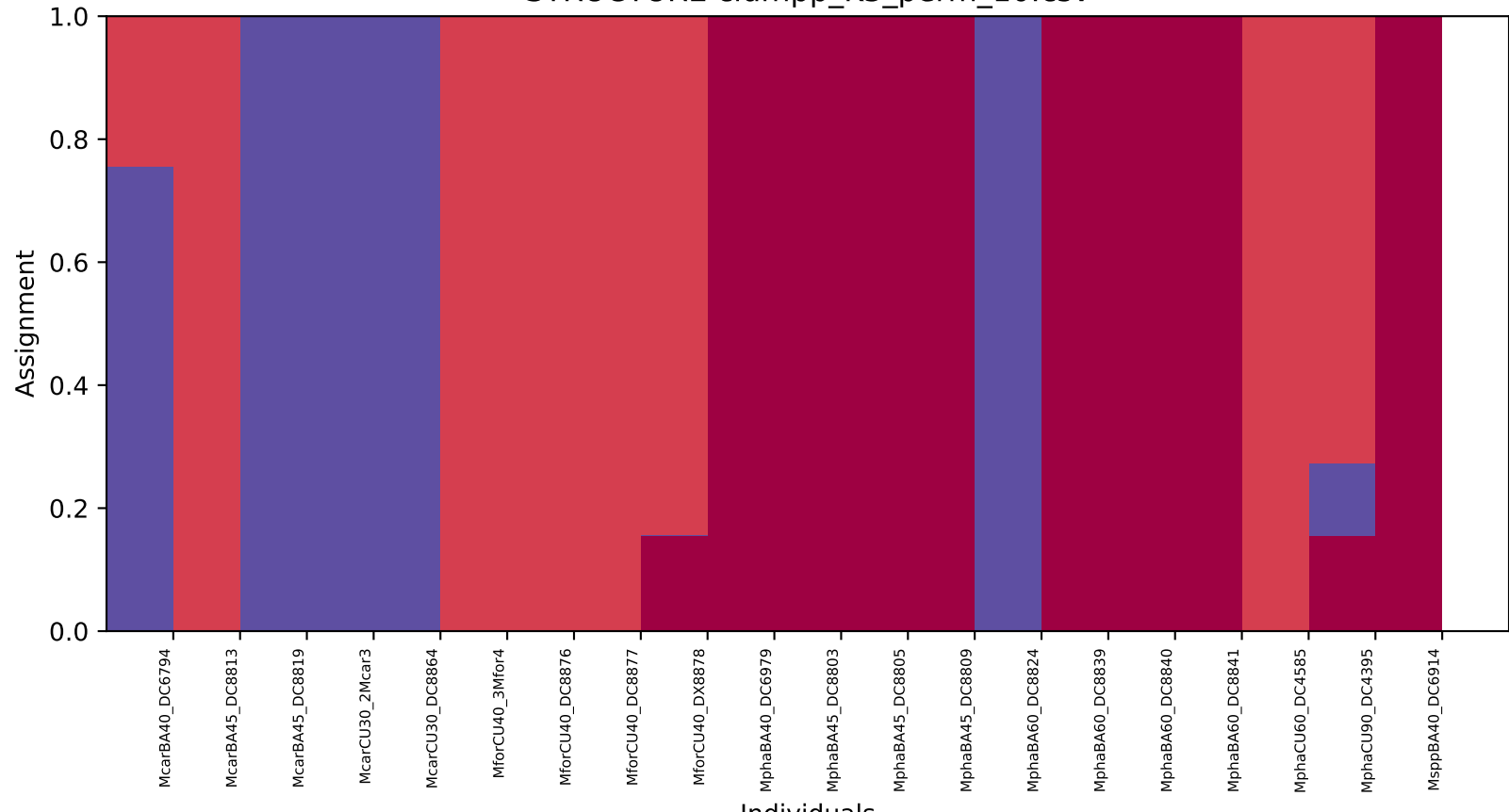
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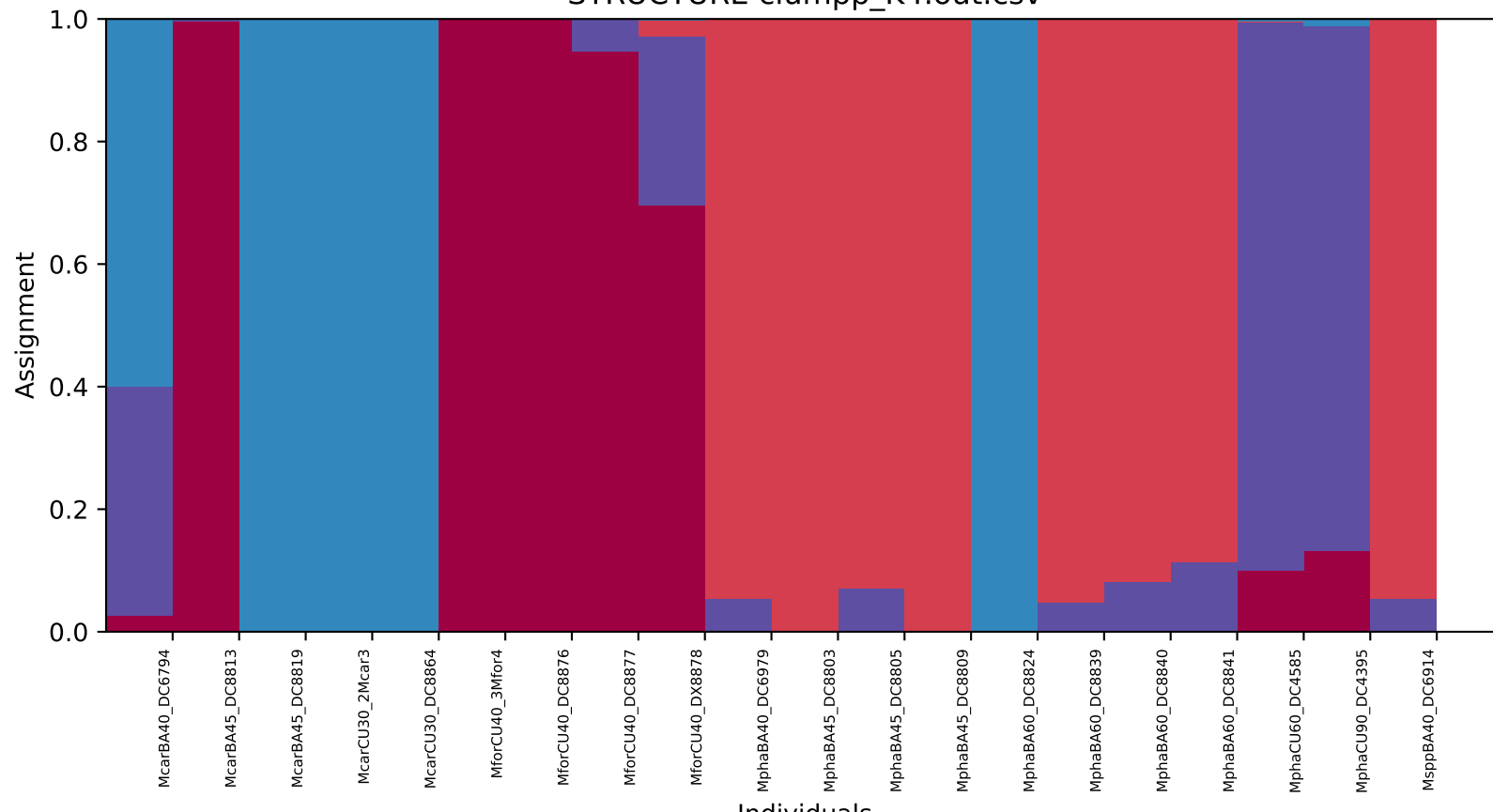
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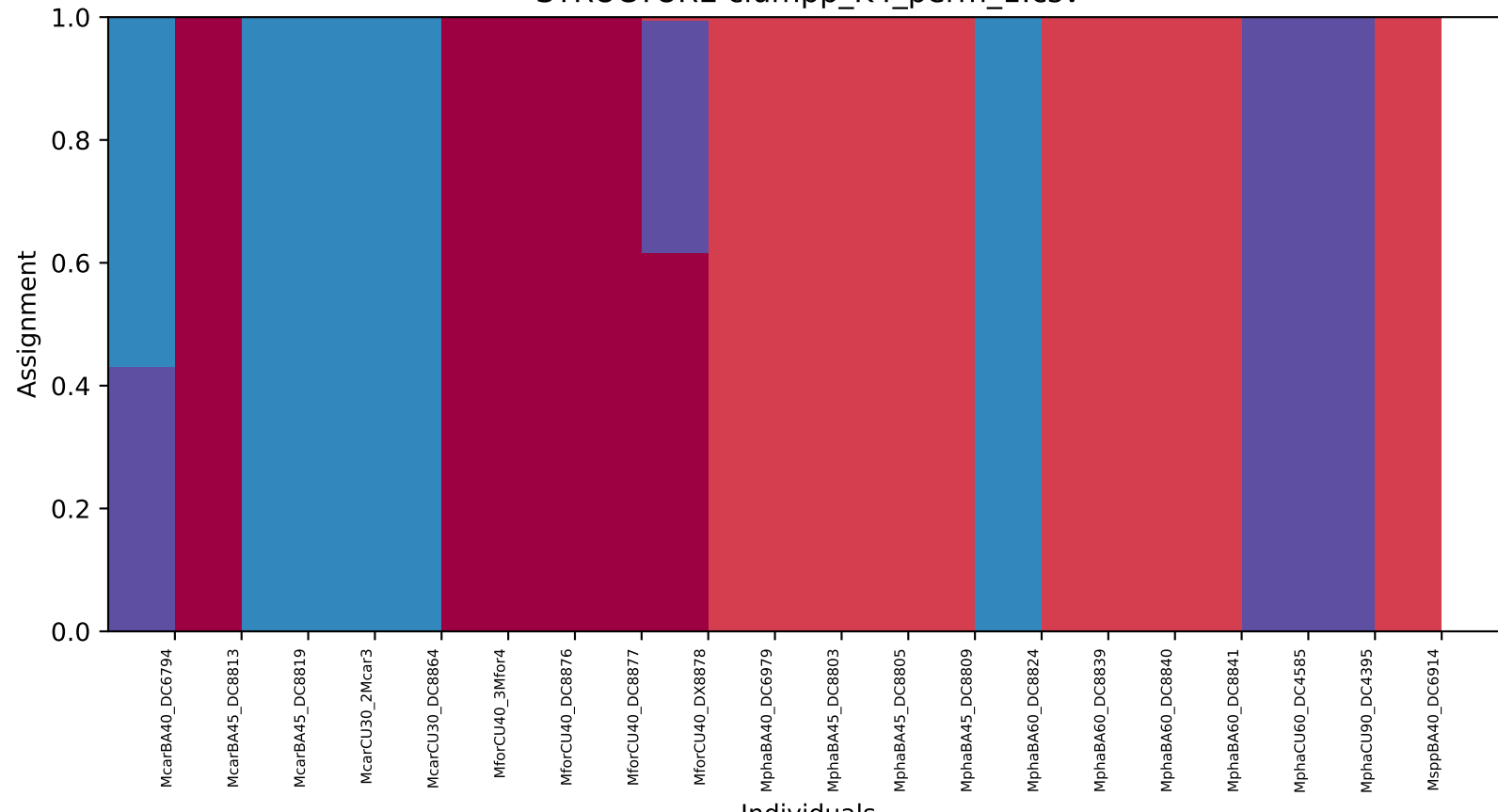
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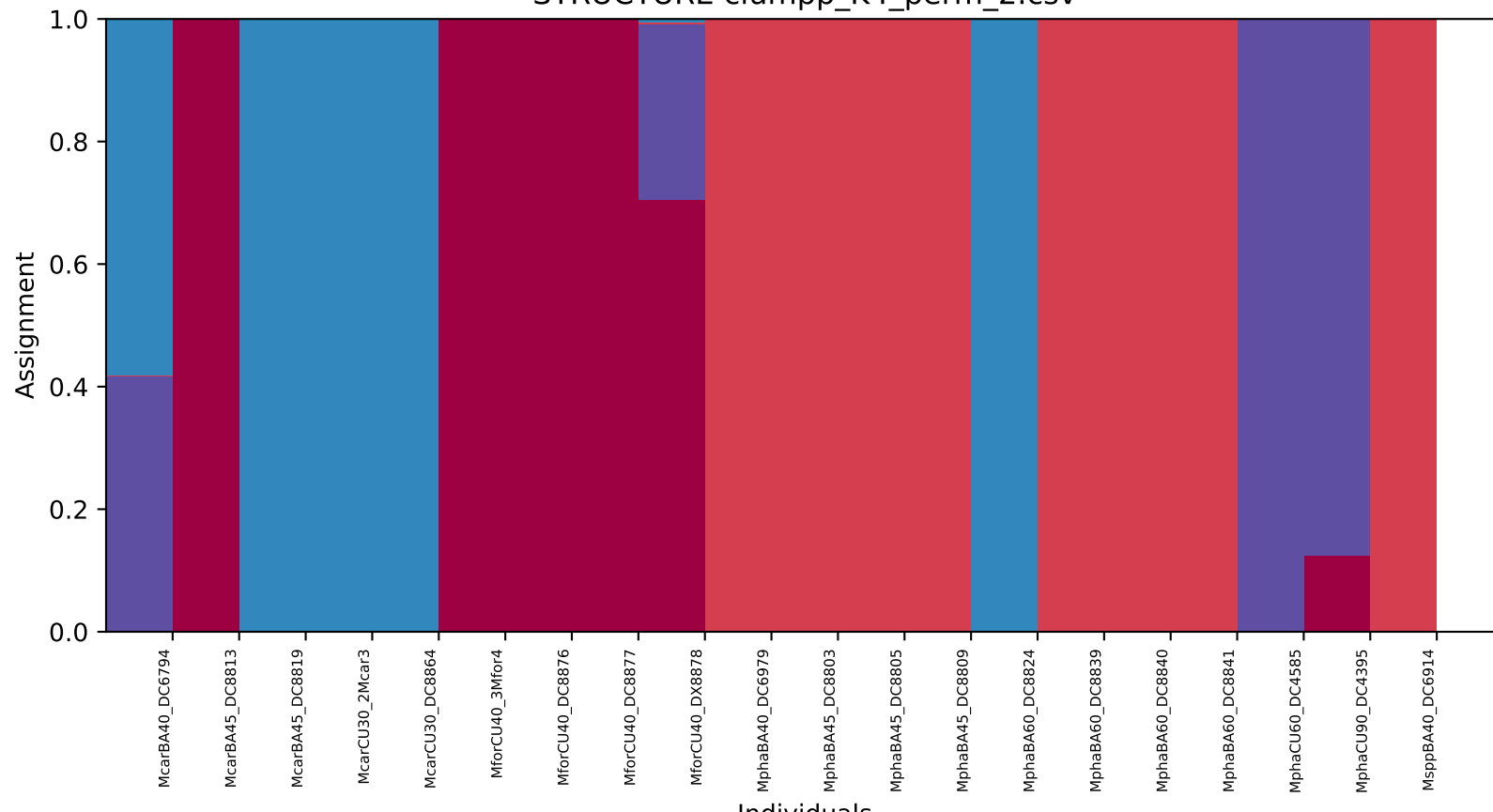
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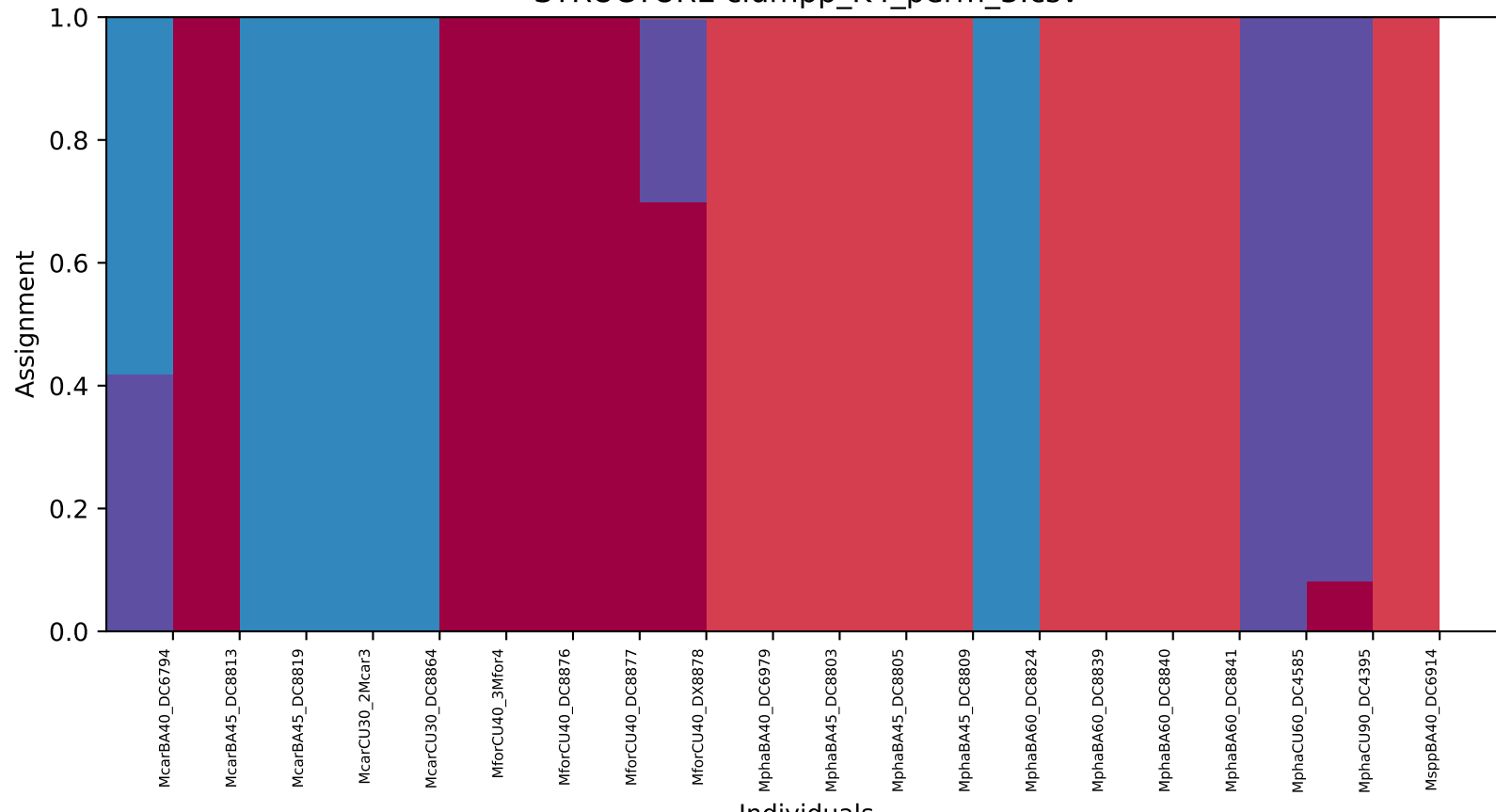
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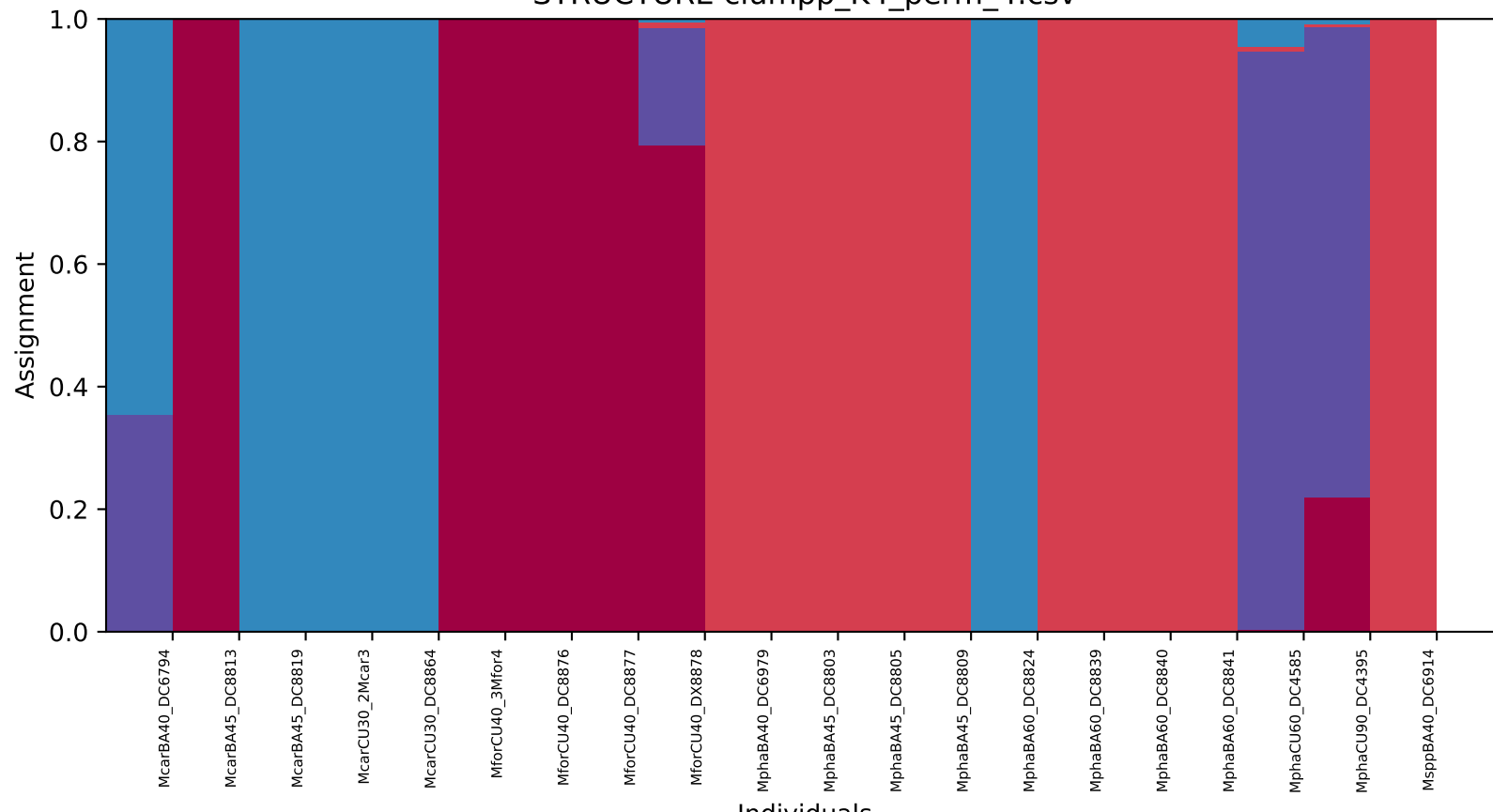
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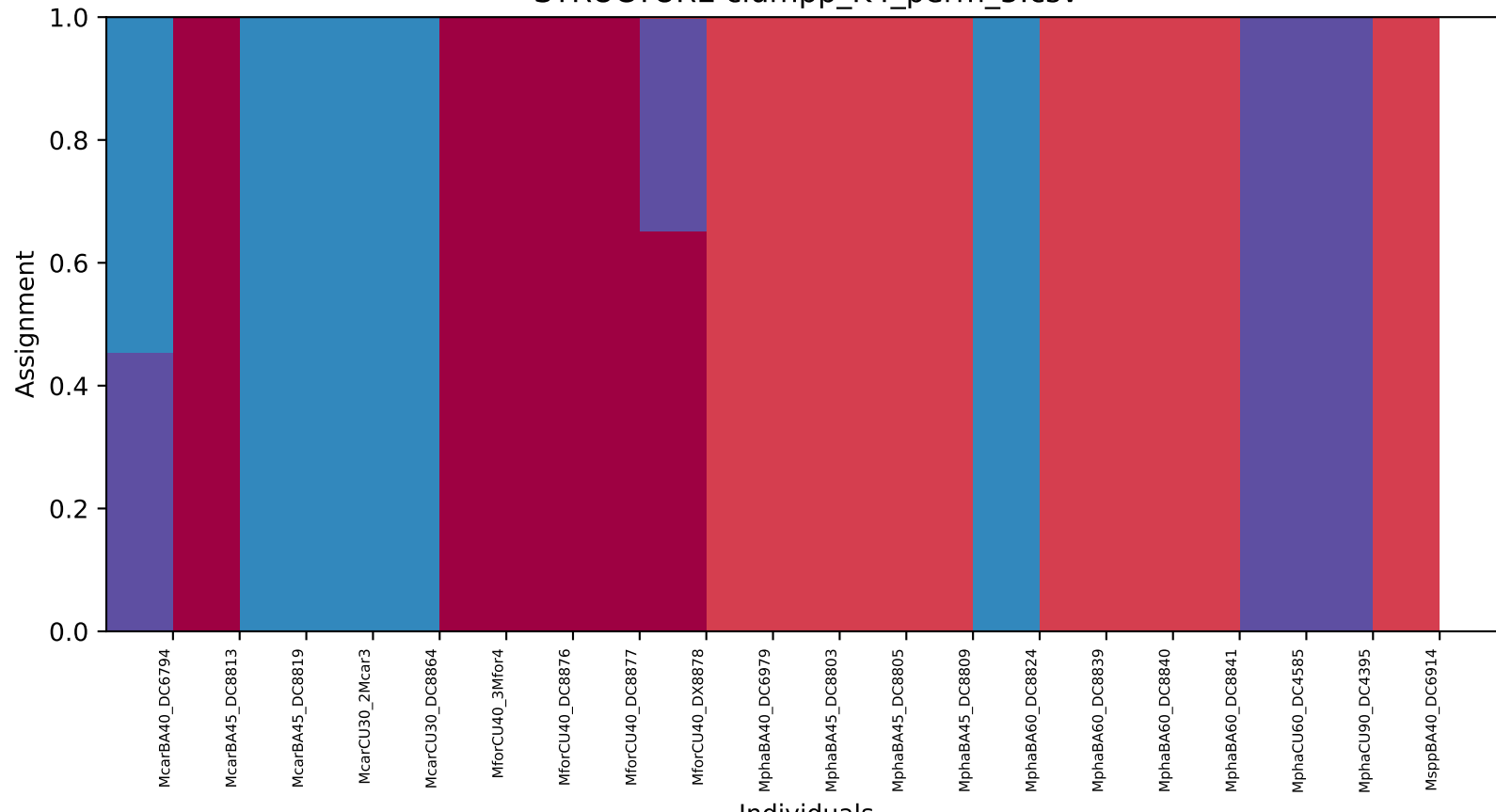
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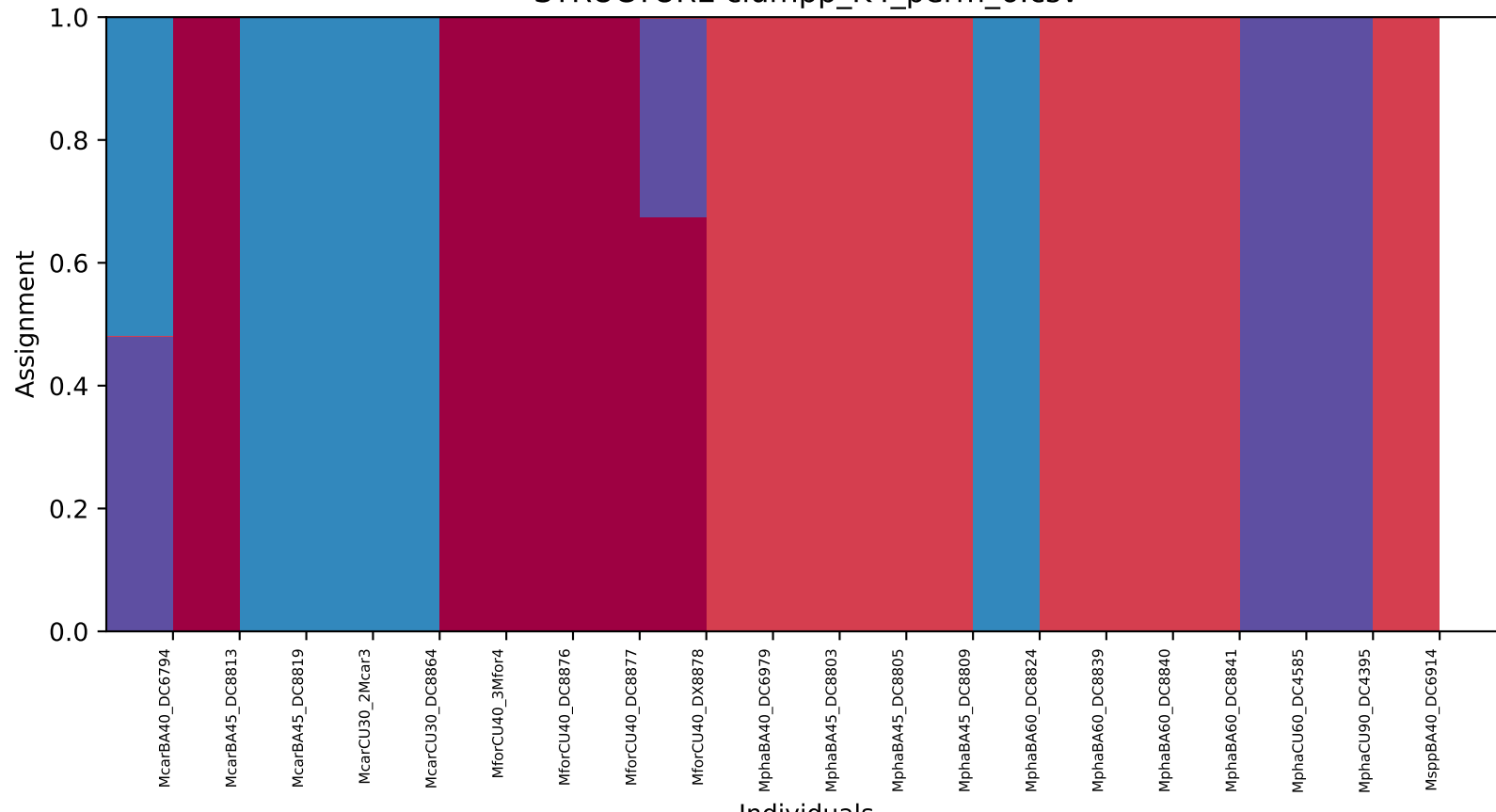
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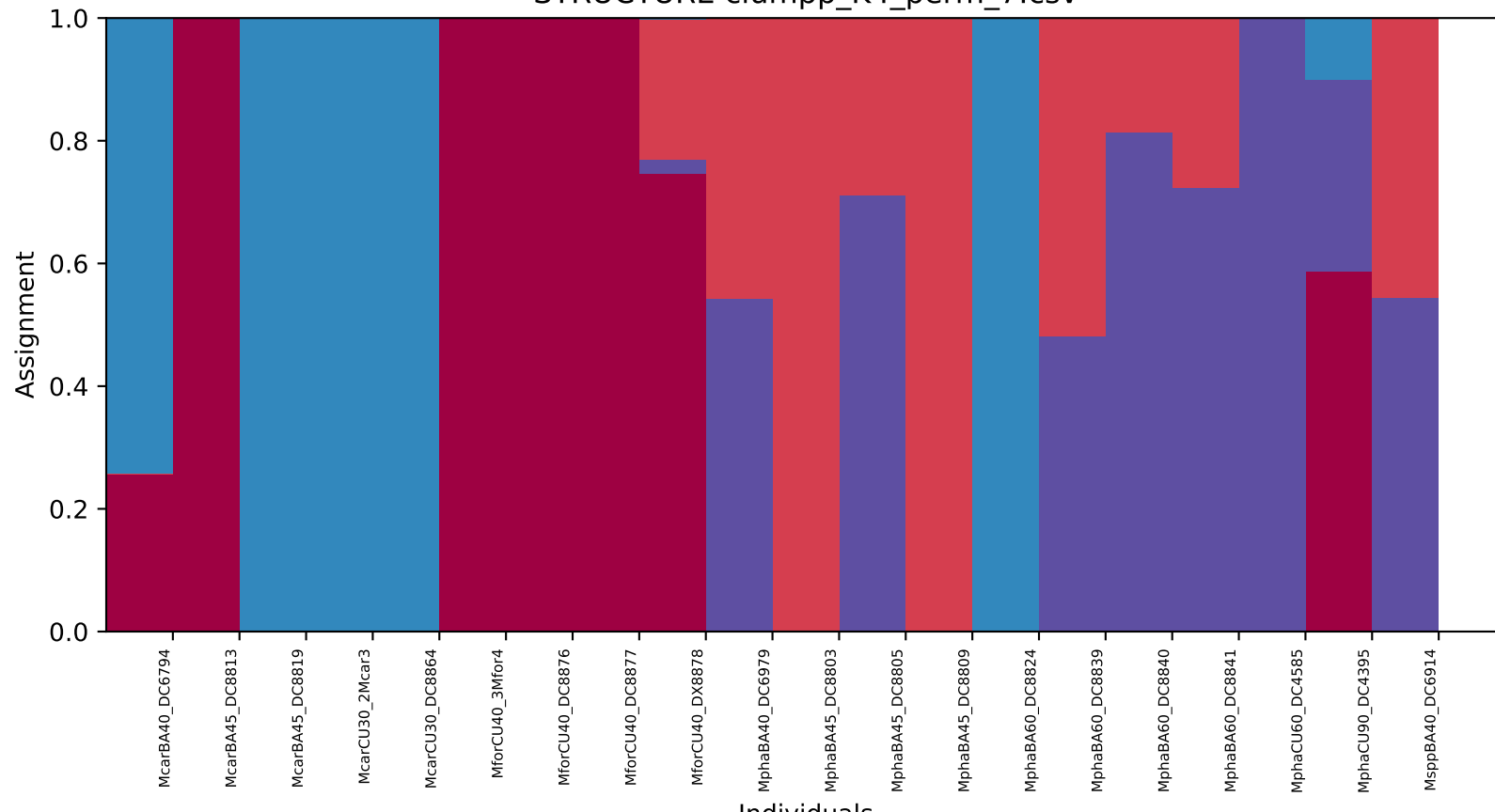
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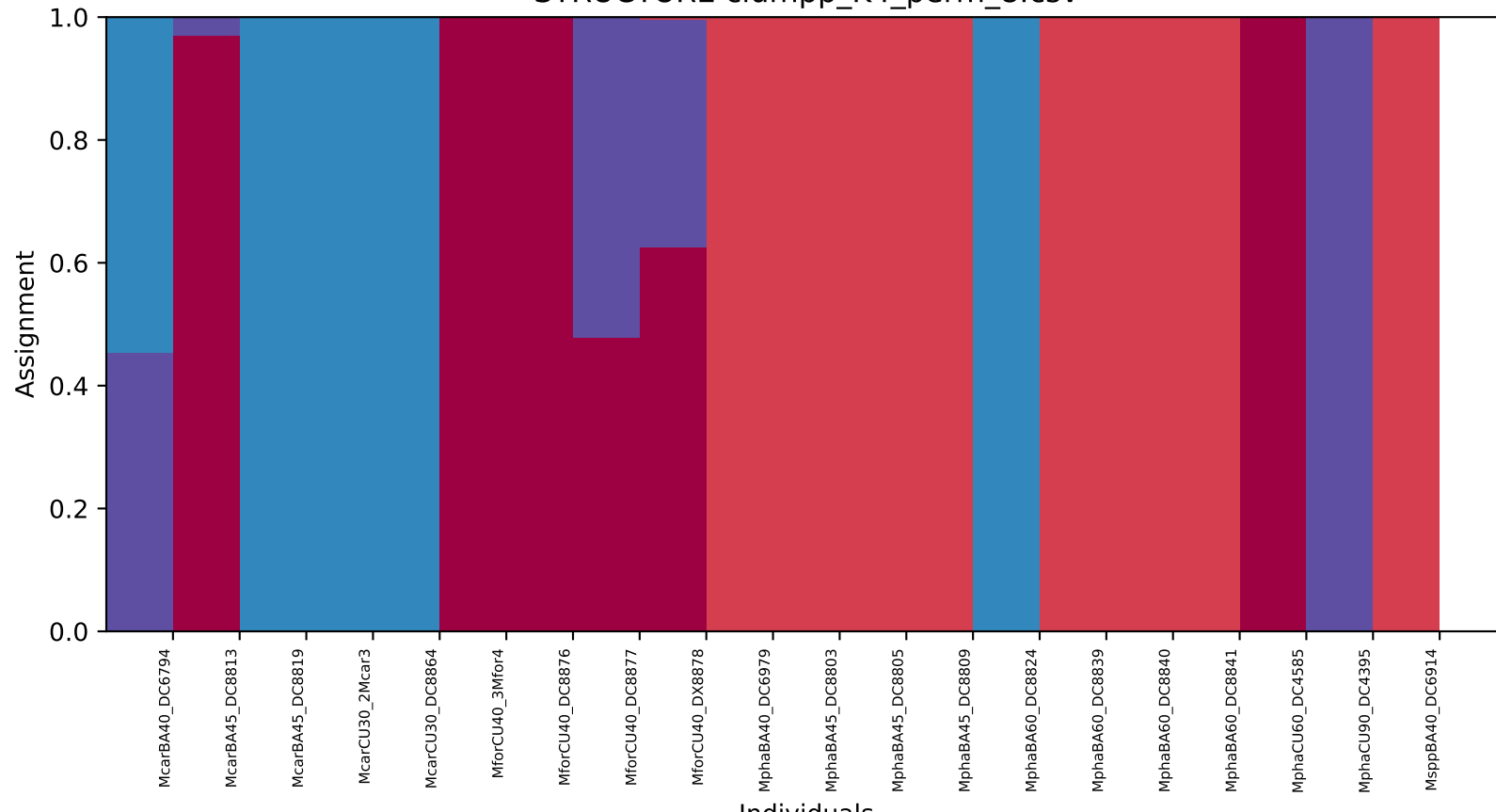
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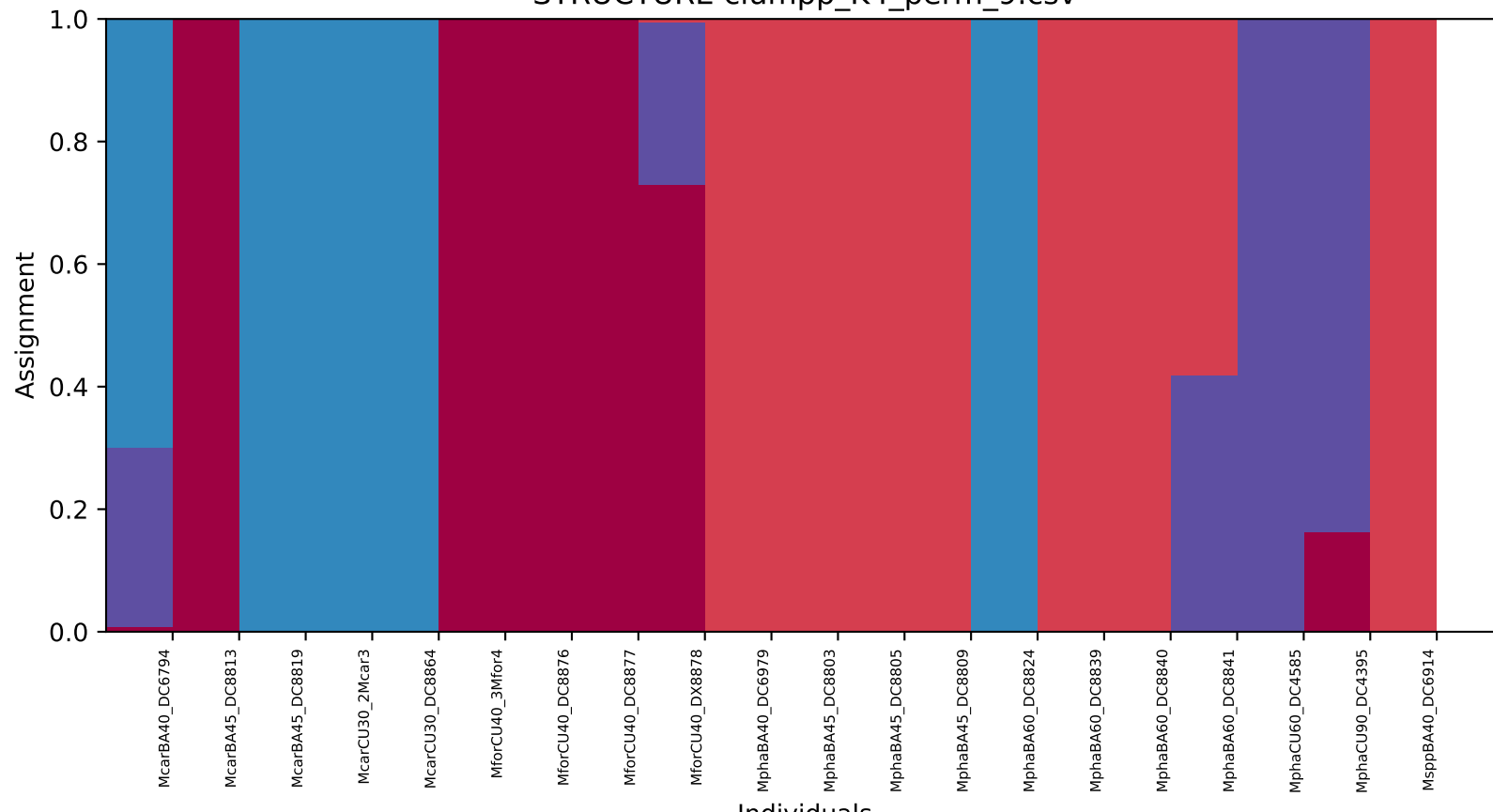
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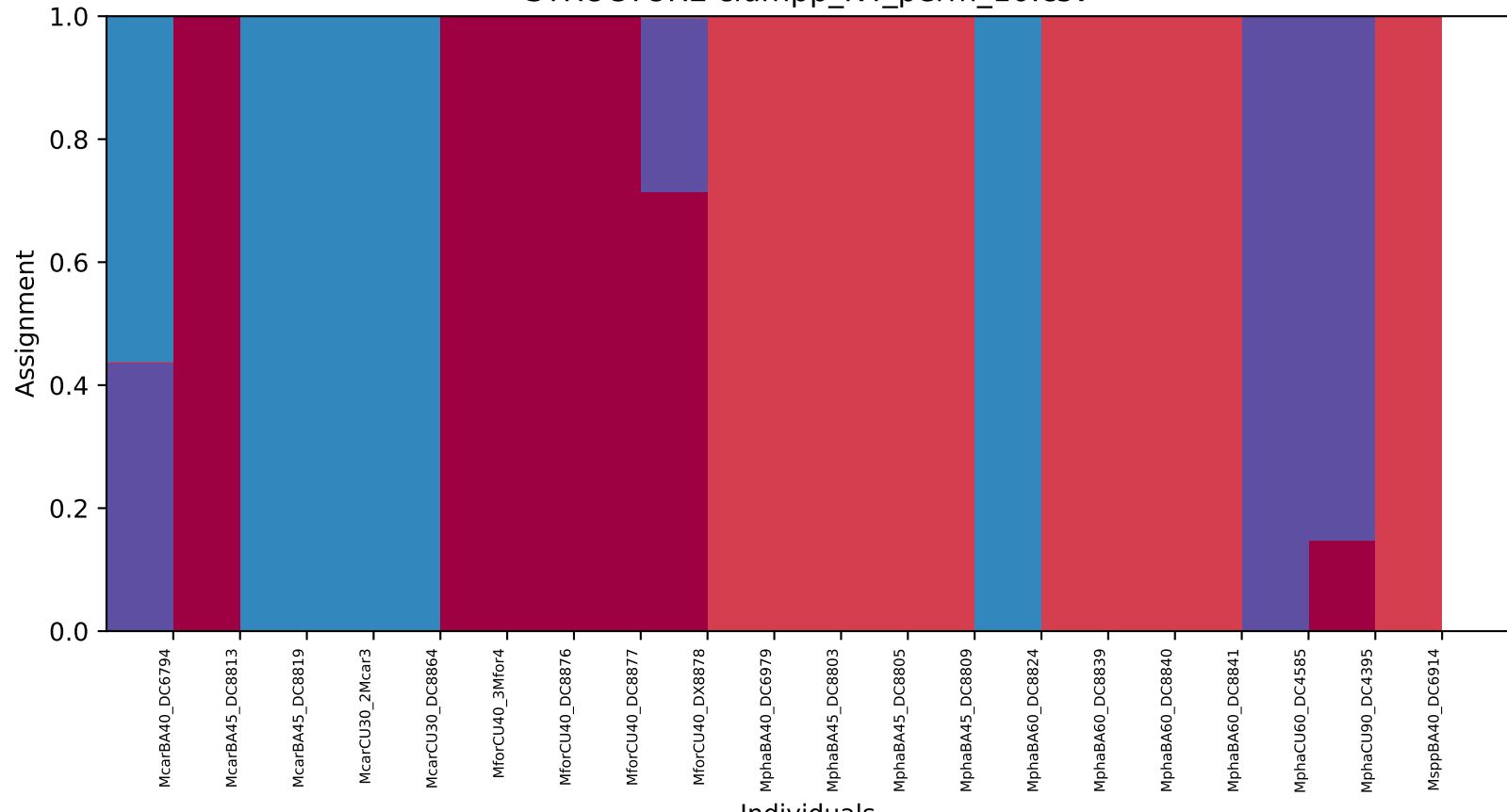
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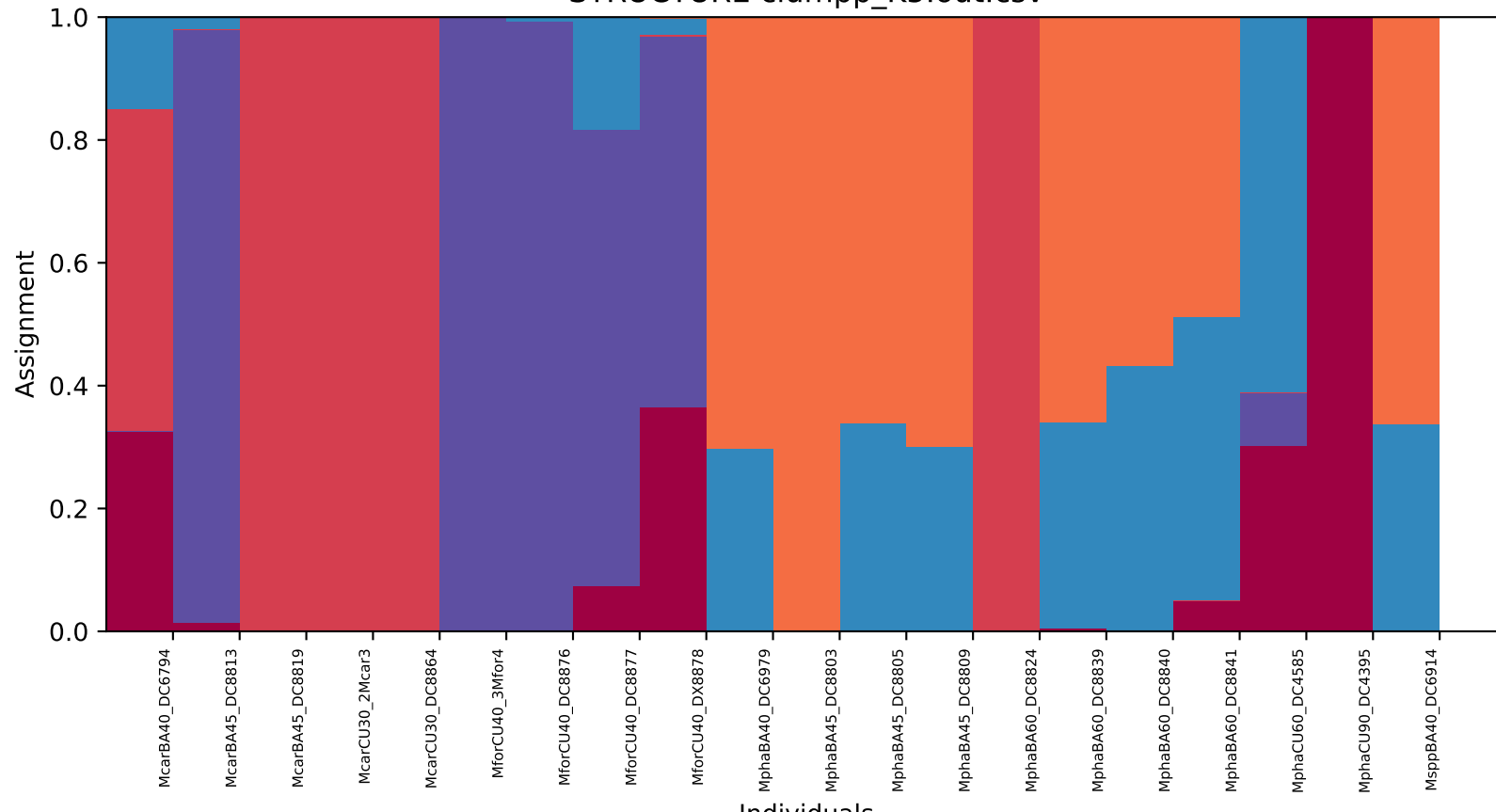
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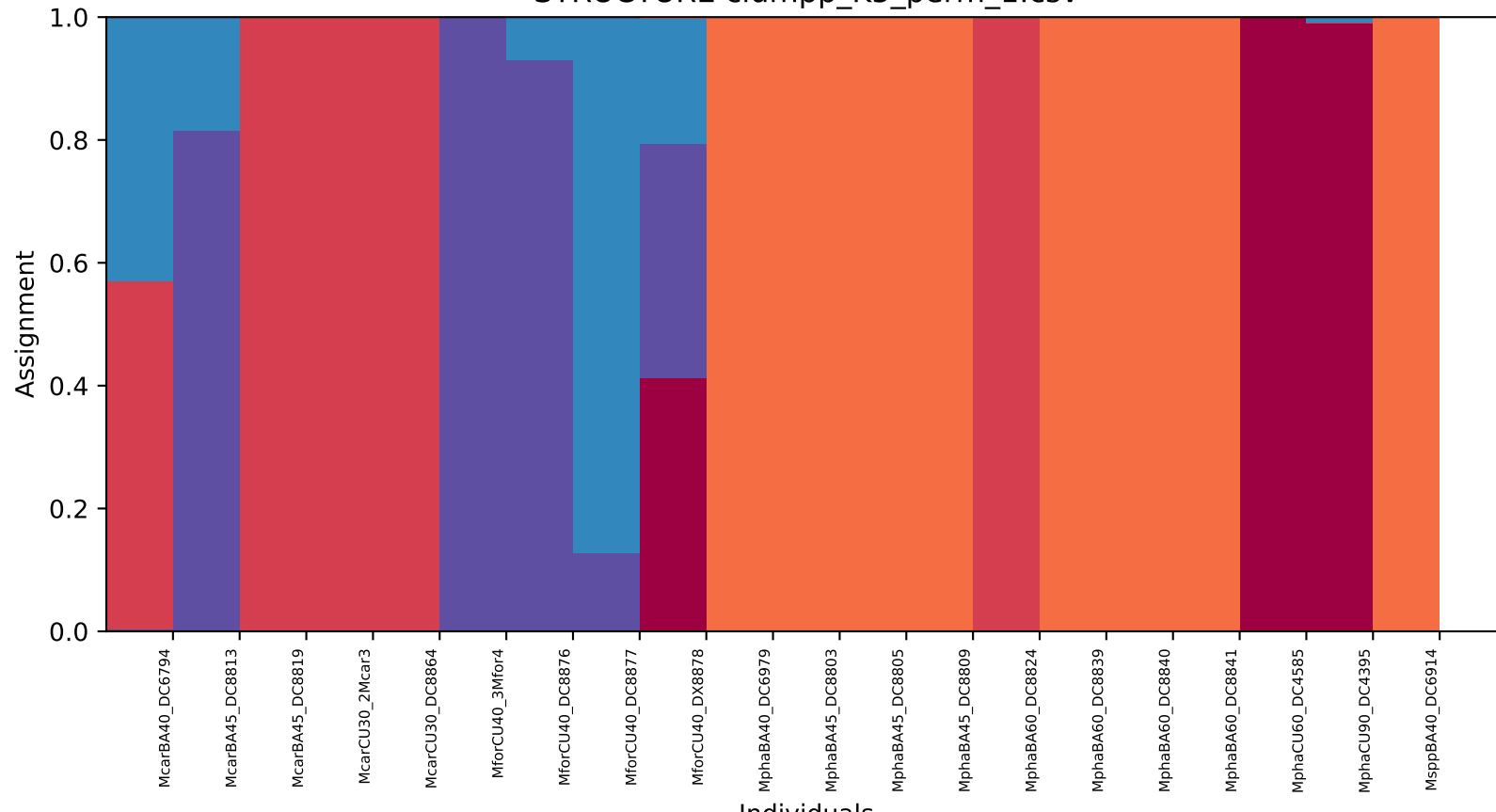
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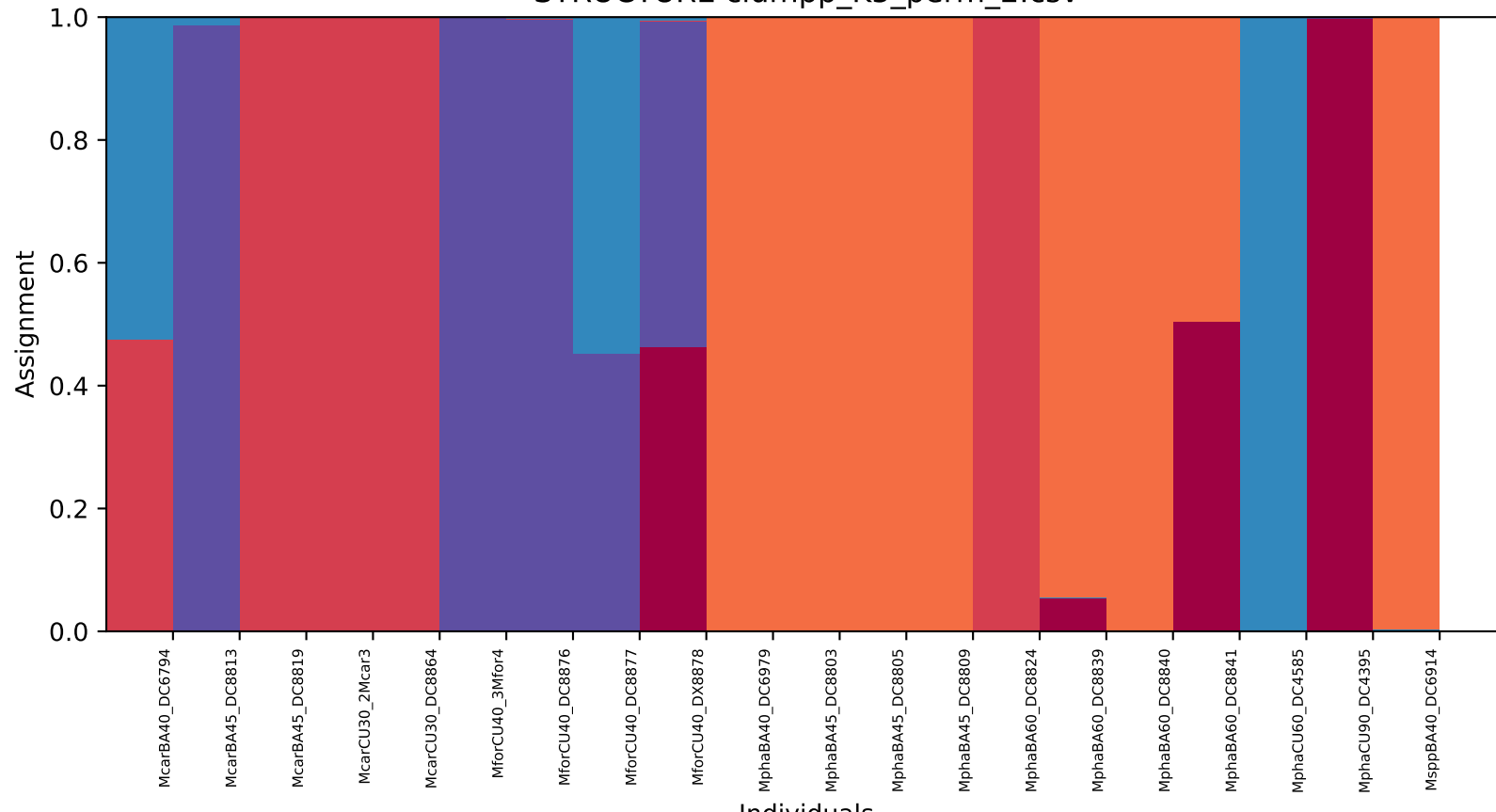
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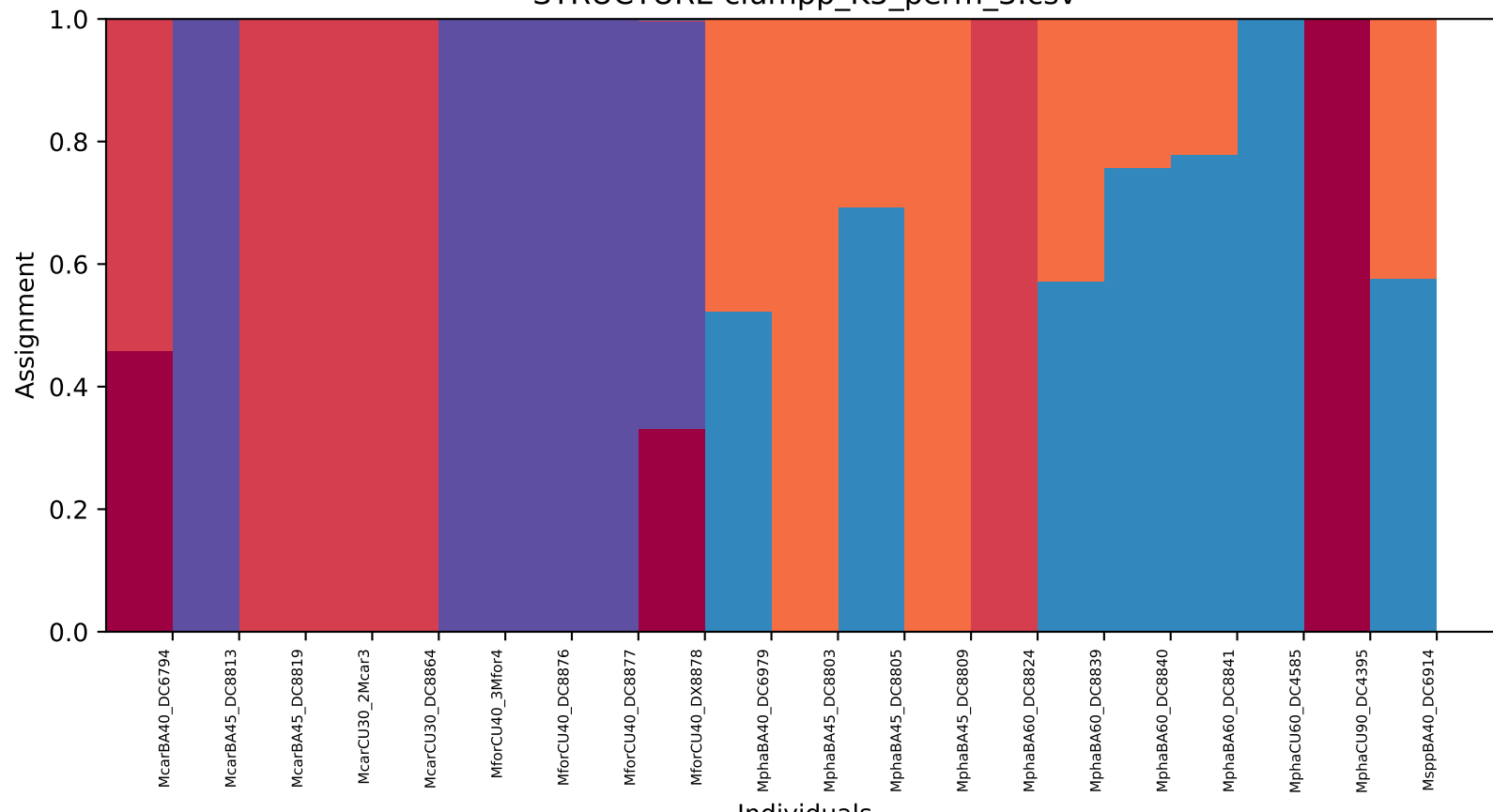
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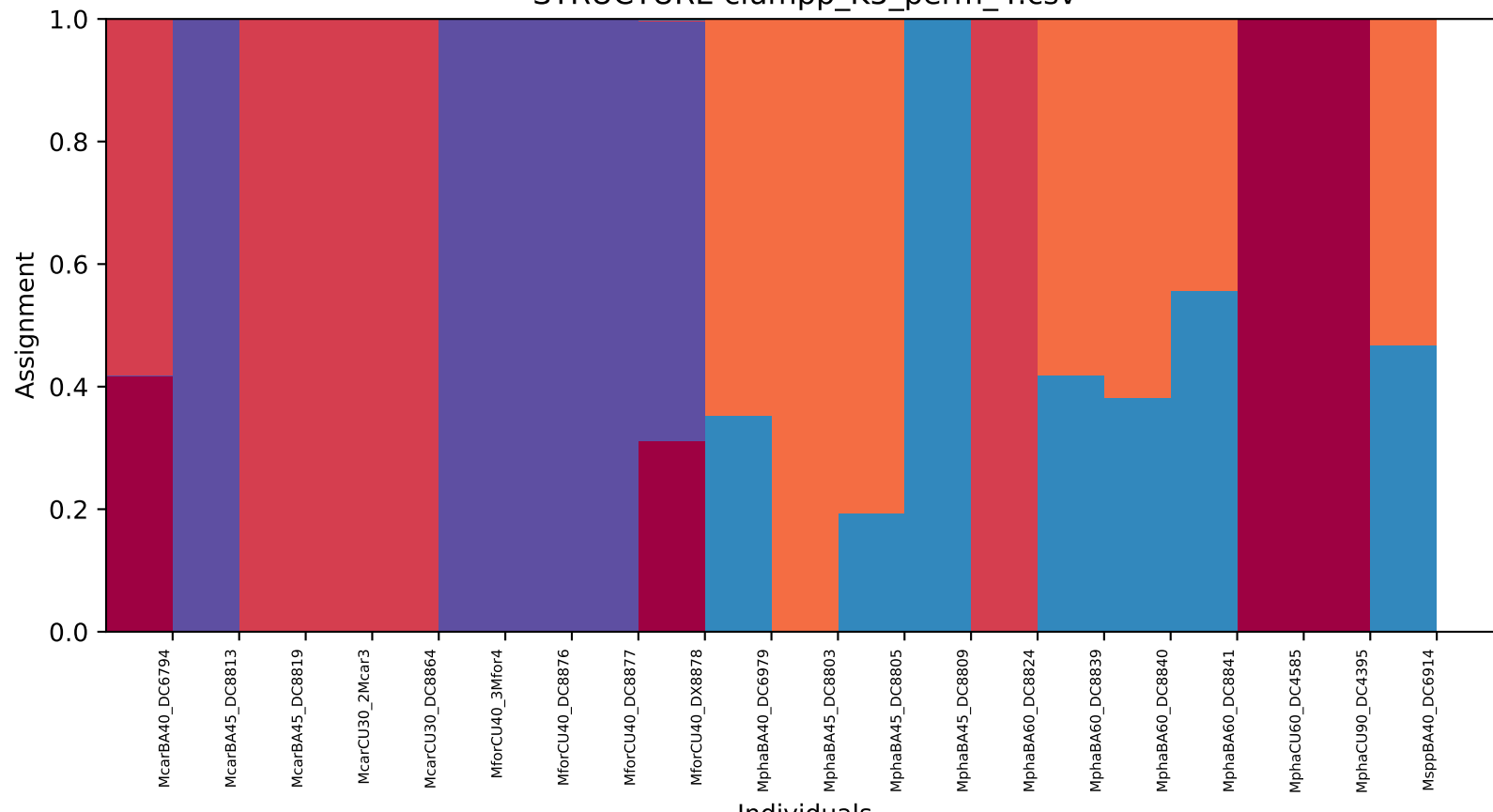
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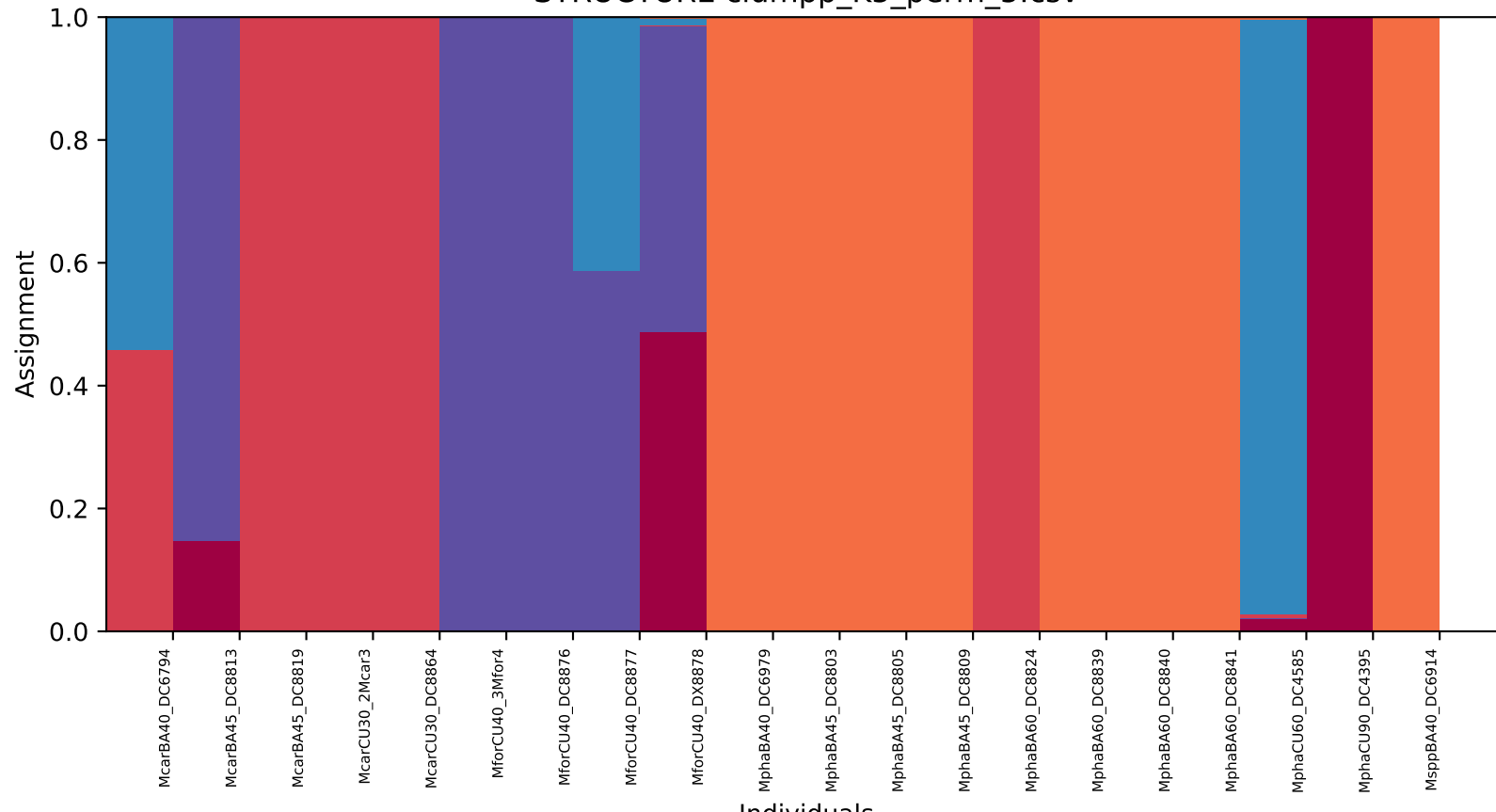
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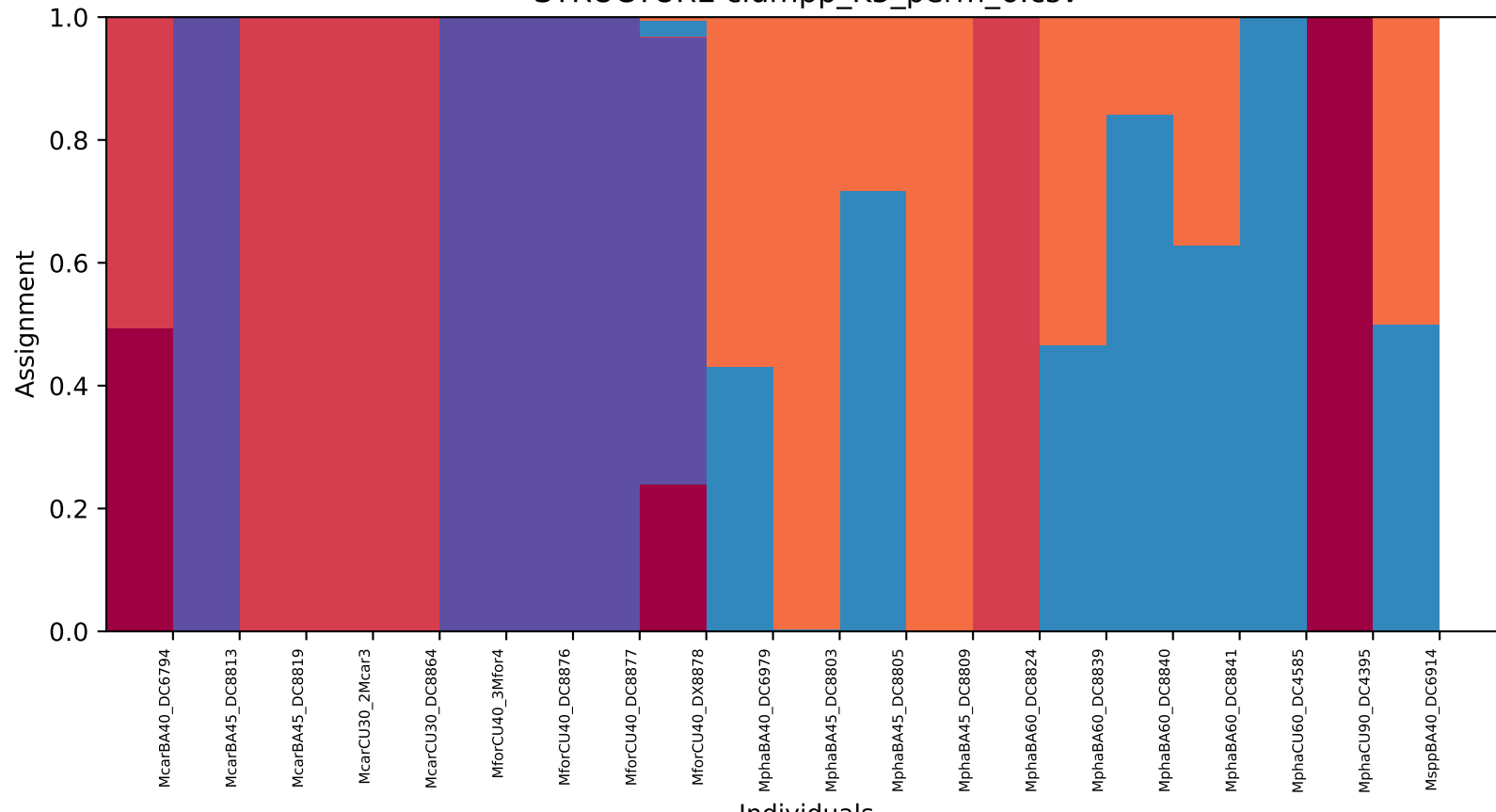
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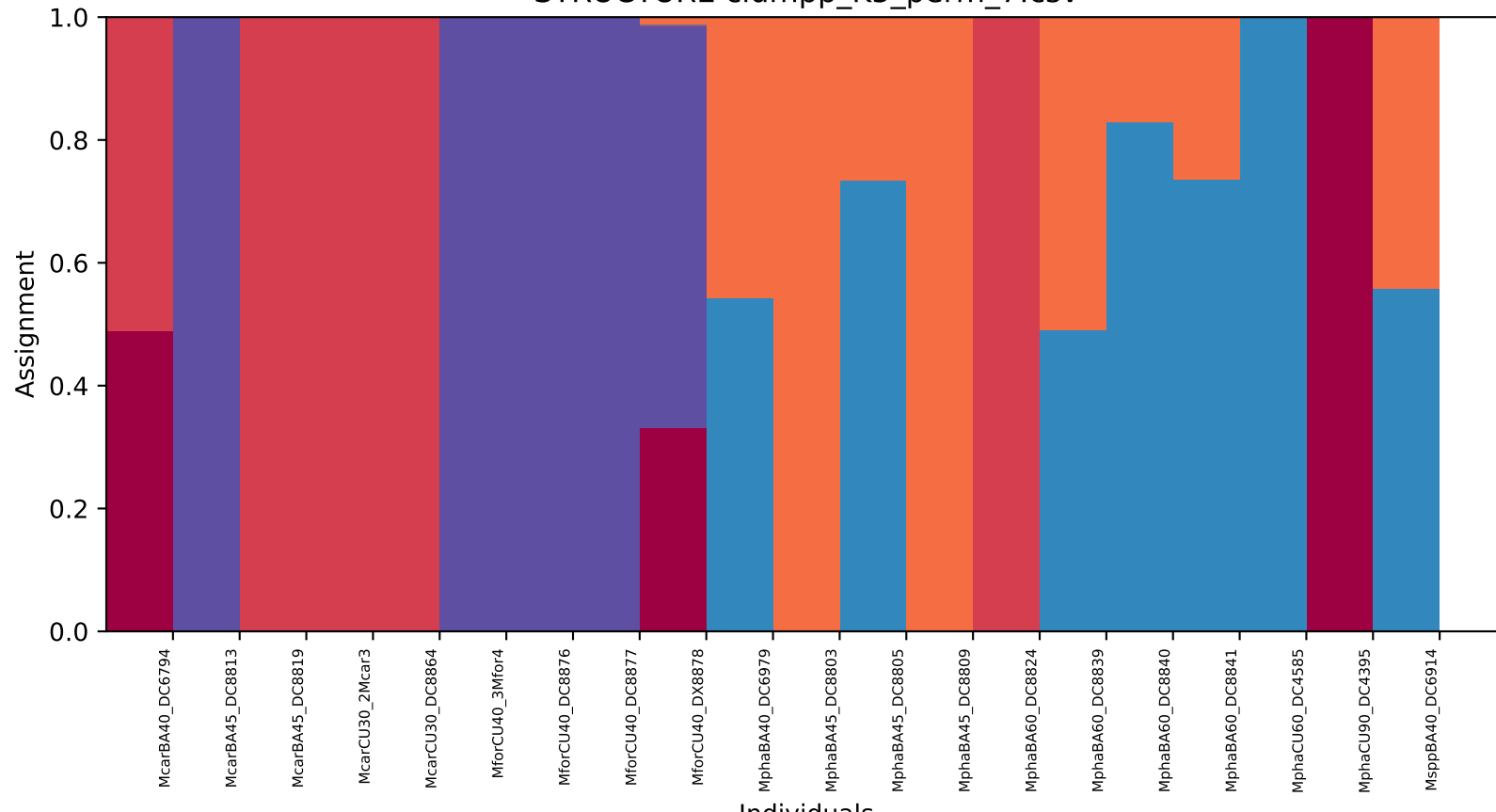
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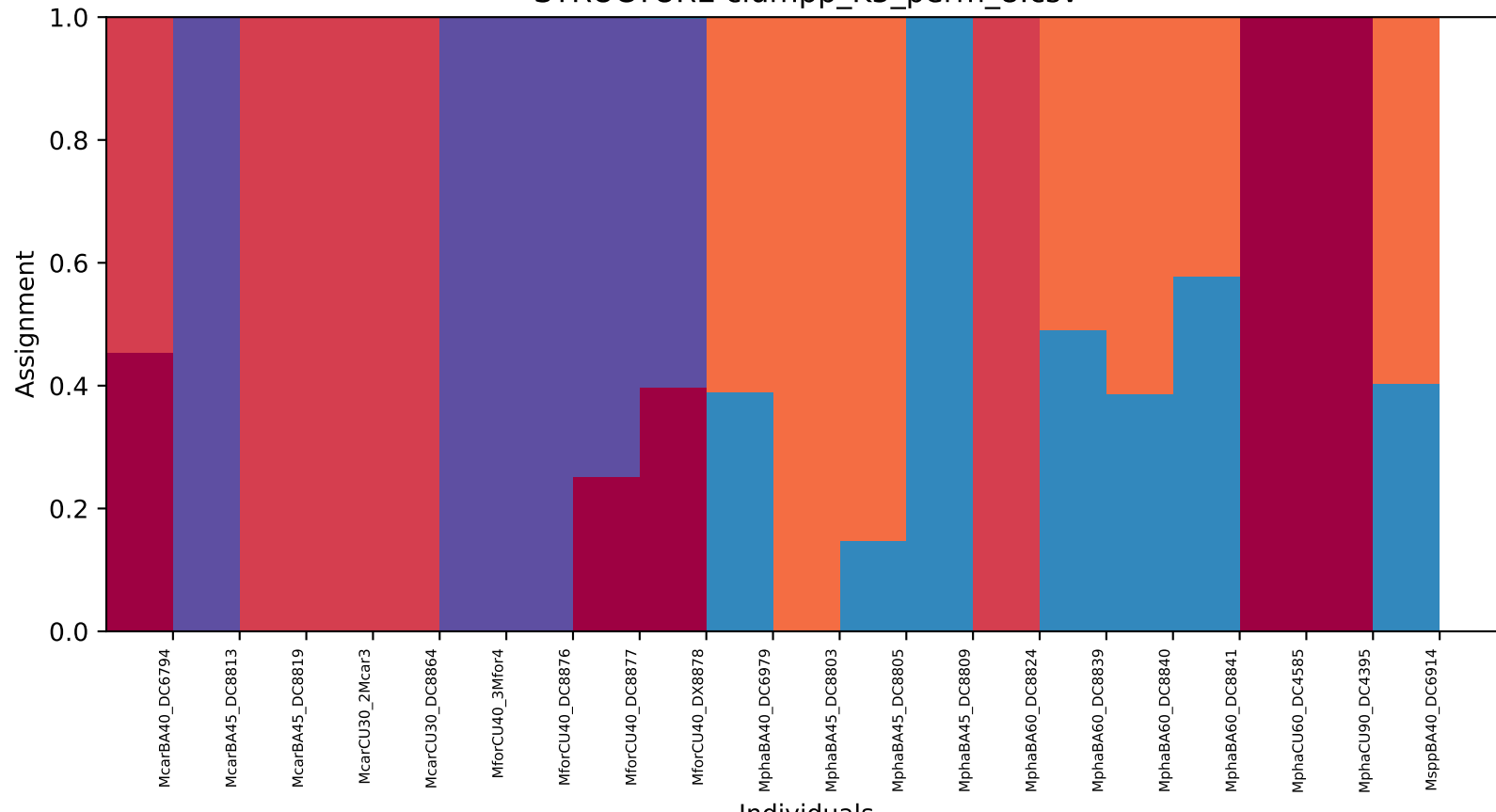
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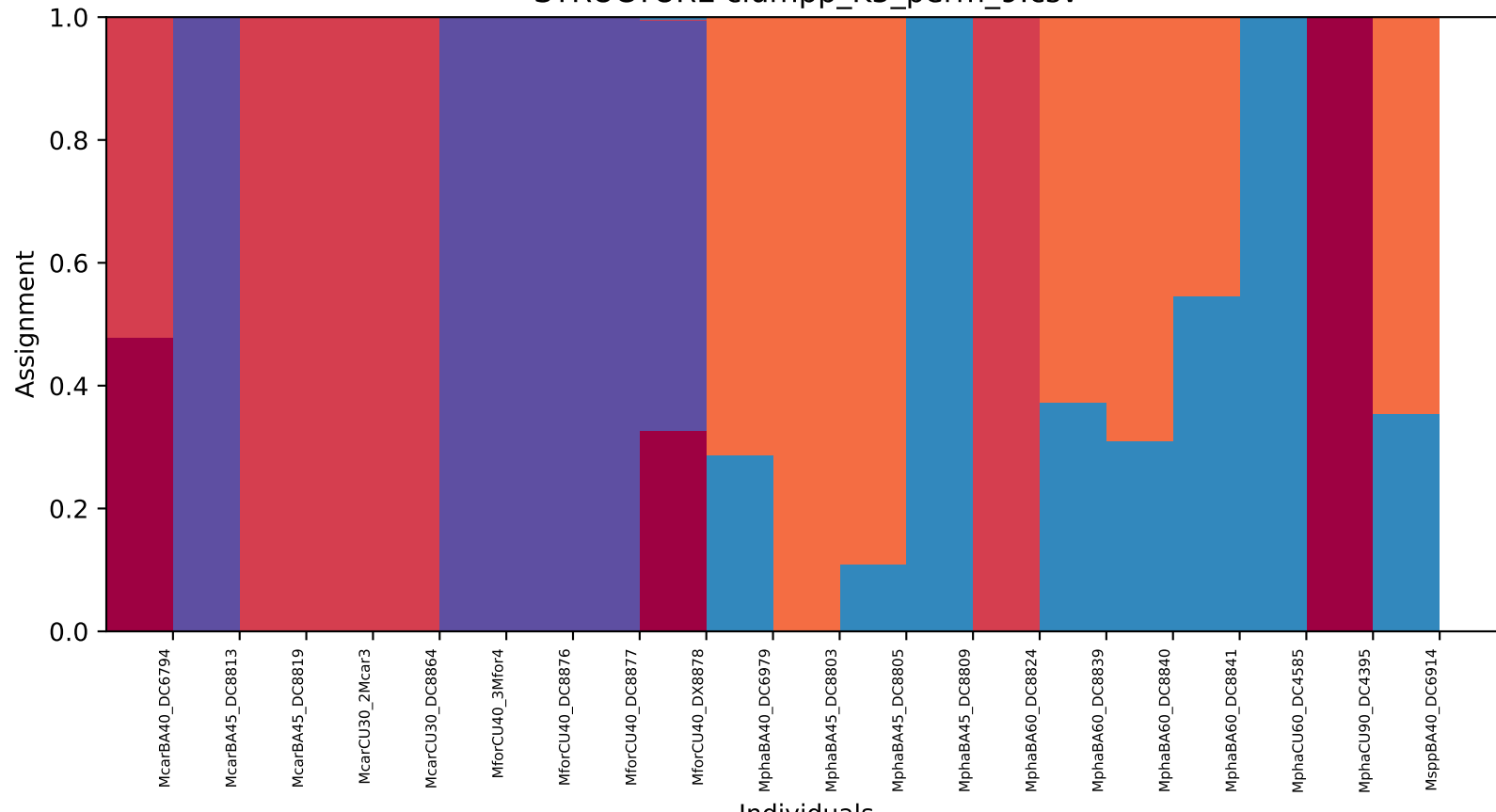
STRUCTURE clump_K5_perm_7.csv



STRUCTURE clumpp_K5_perm_8.csv



STRUCTURE clumpp_K5_perm_9.csv



STRUCTURE clumpp_K5_perm_10.csv

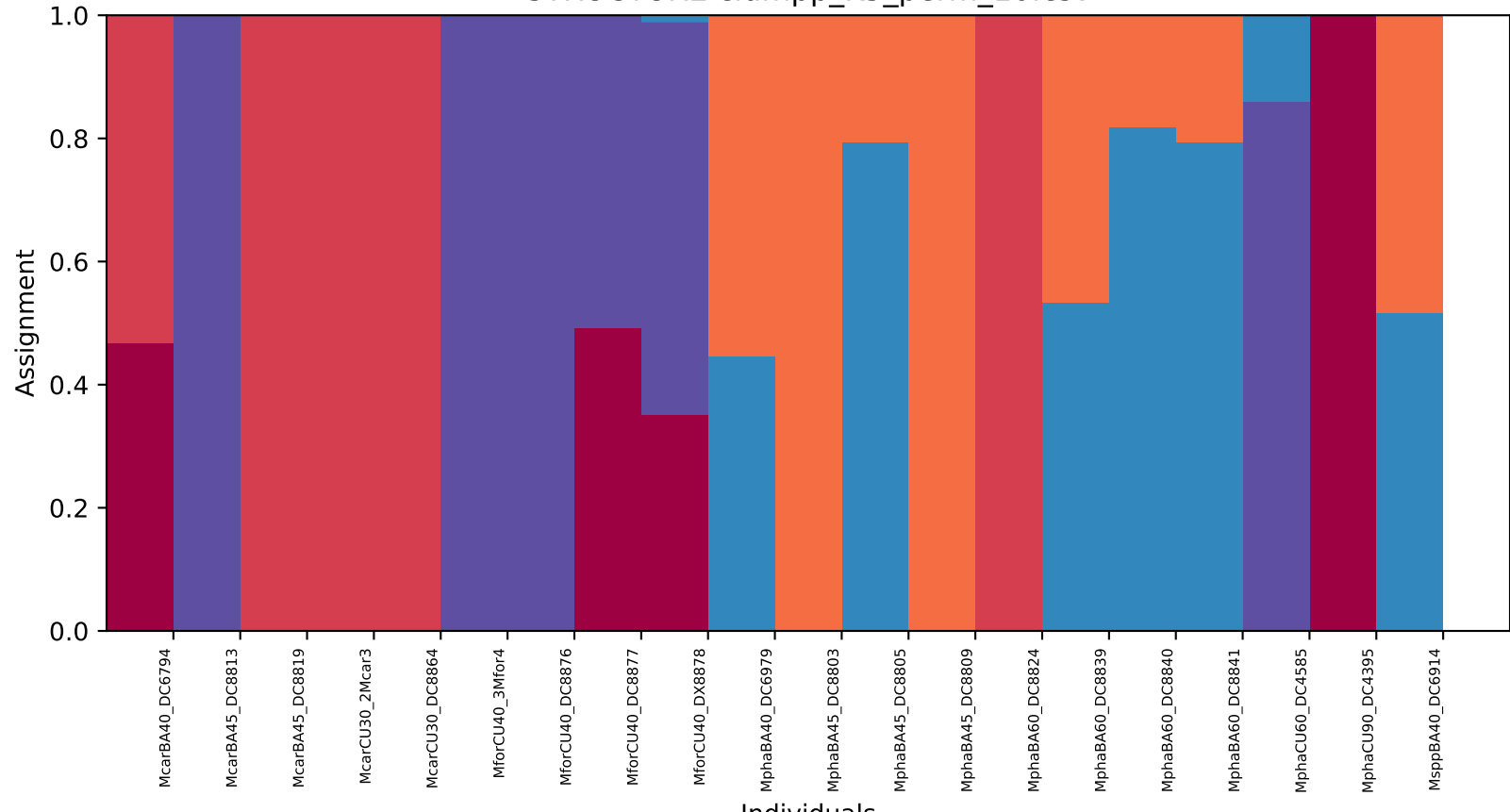
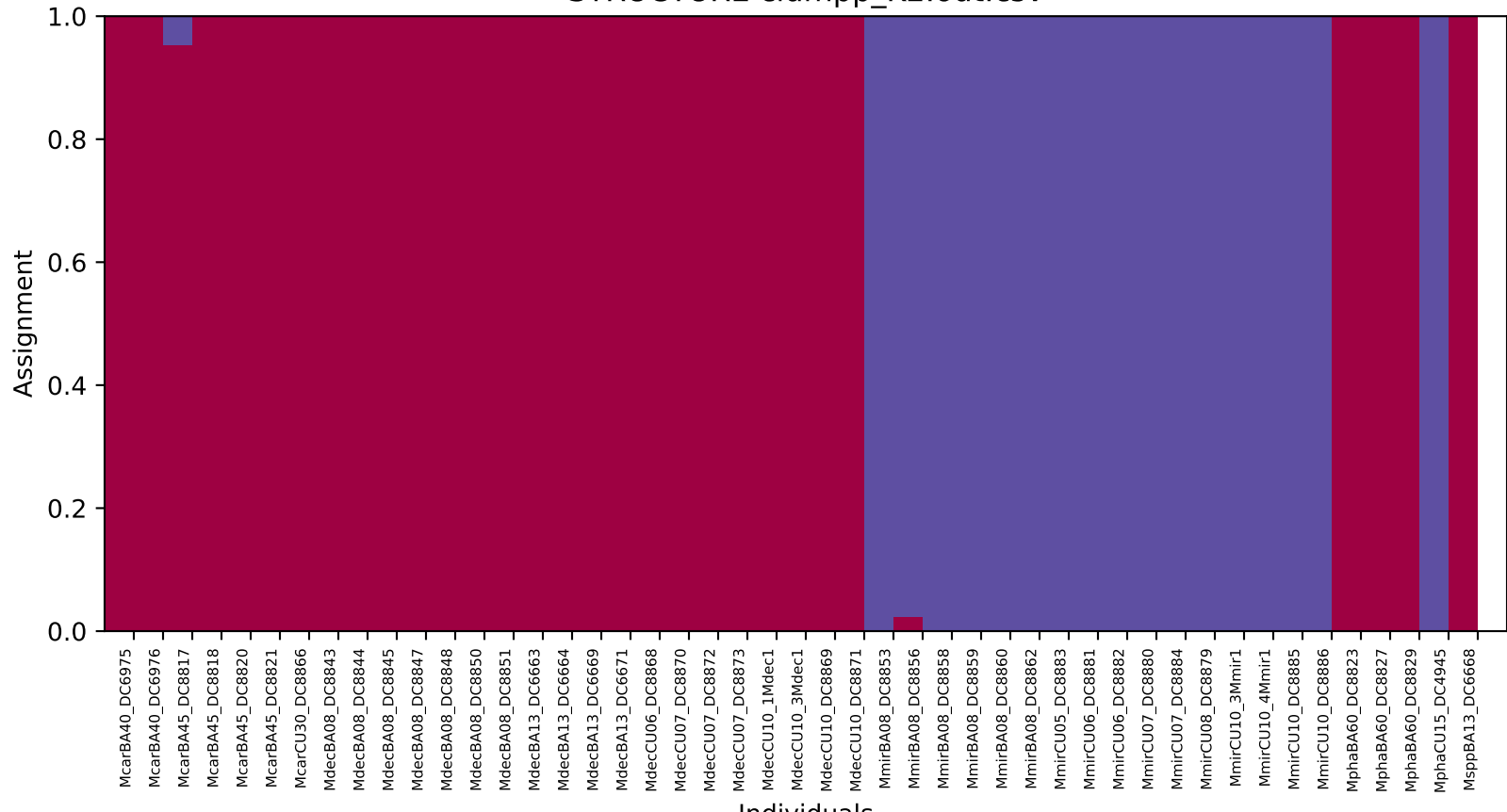
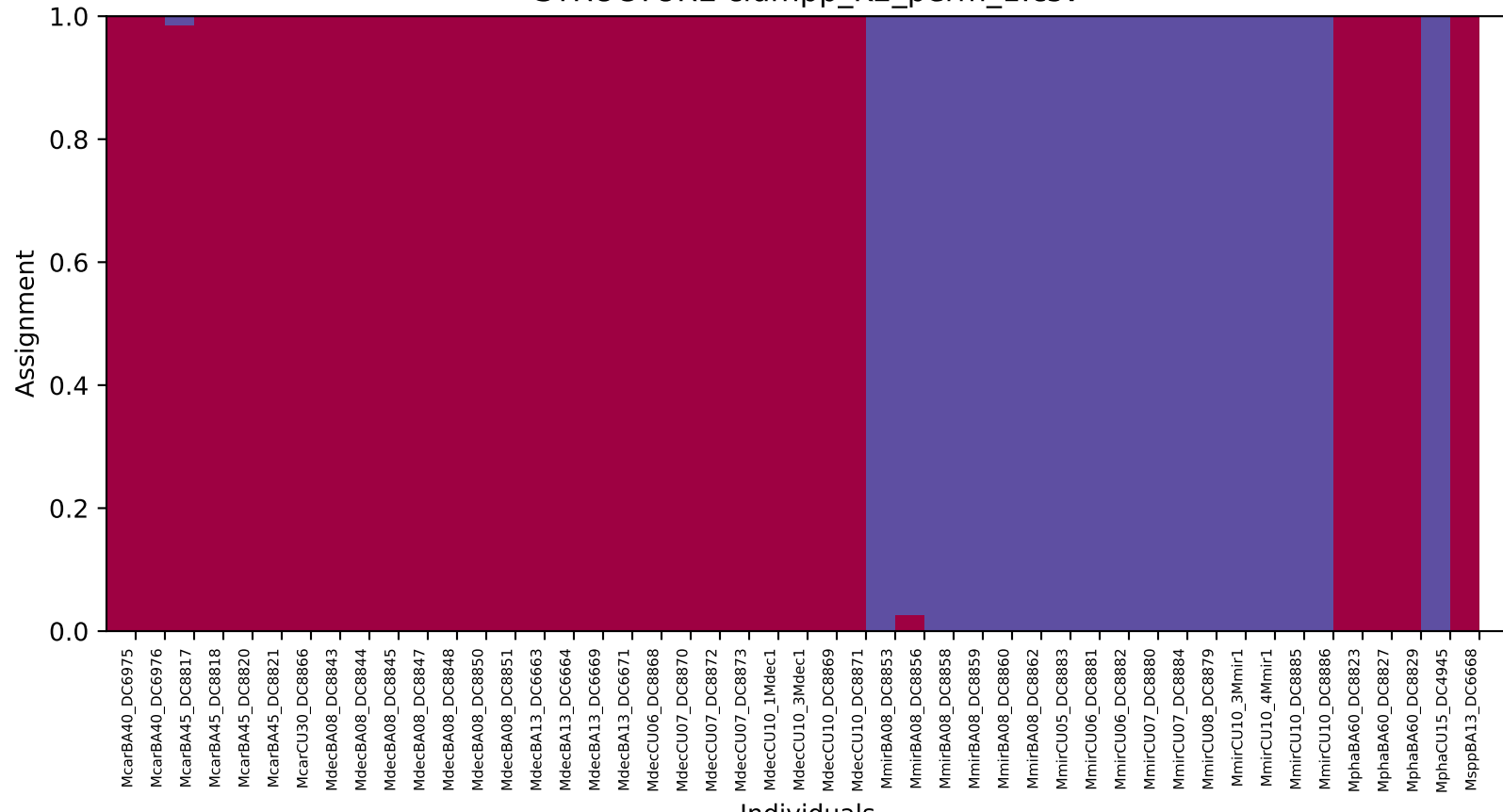


Figure S6c

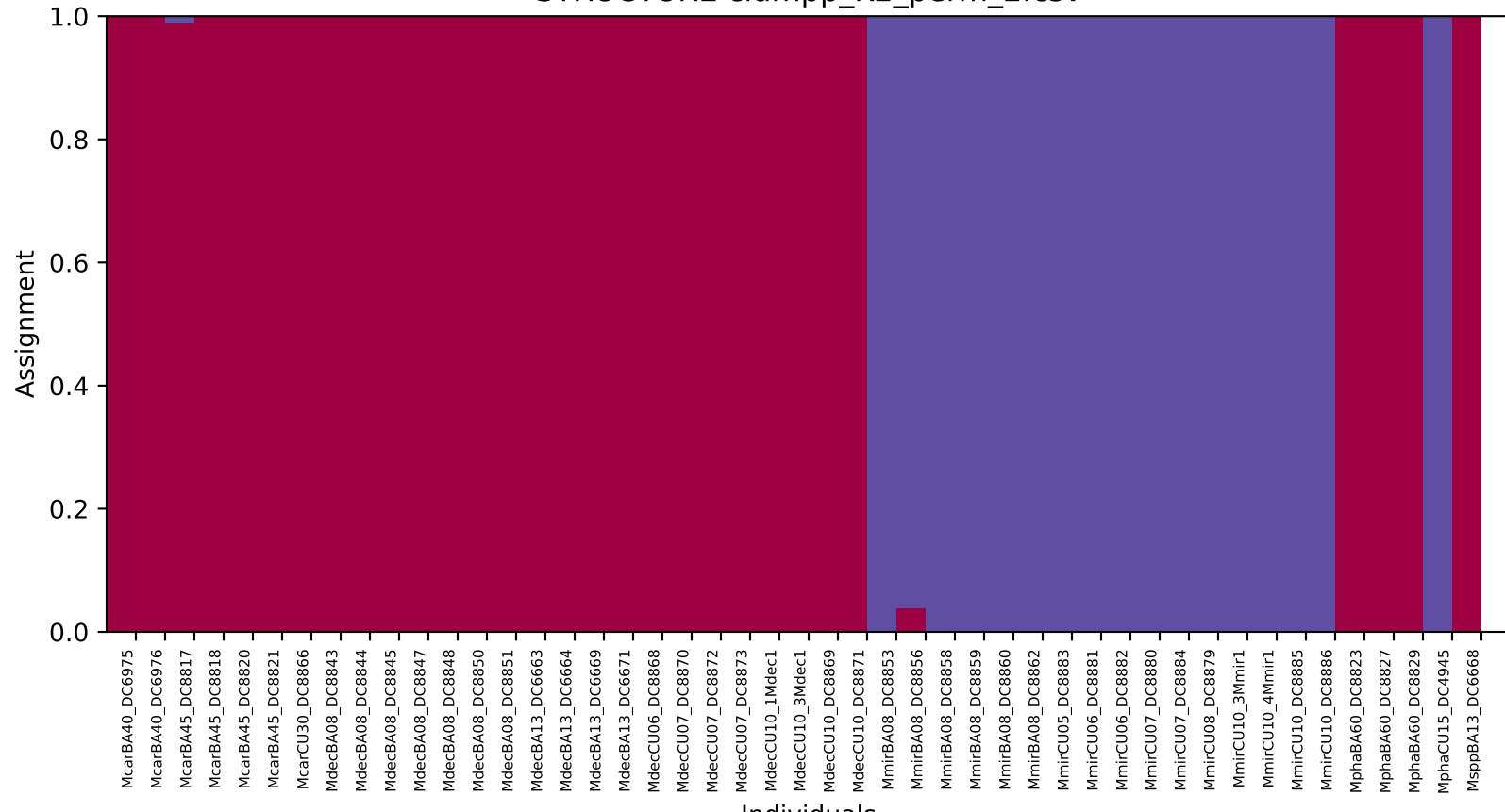
STRUCTURE clump_K2.out.csv



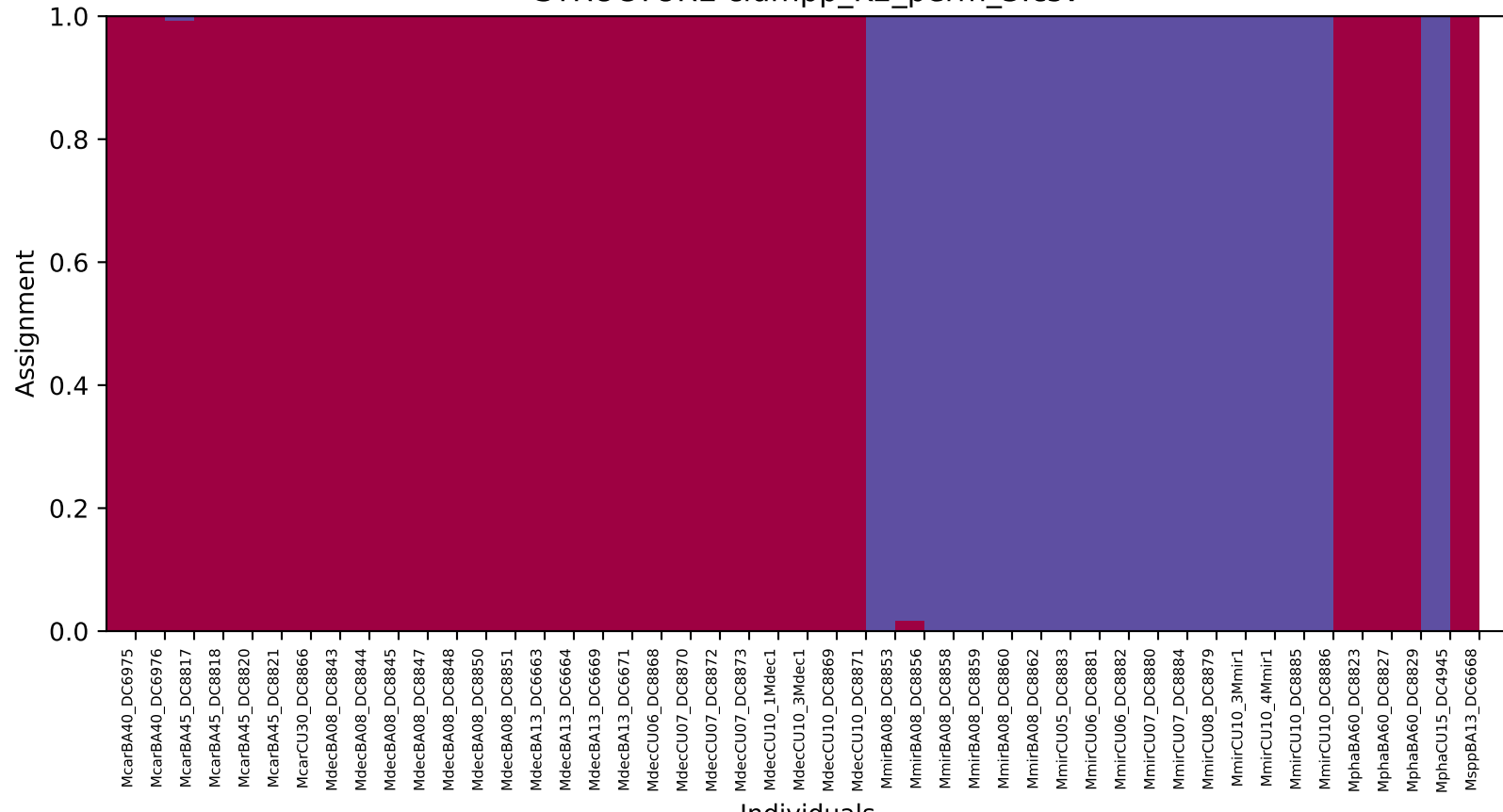
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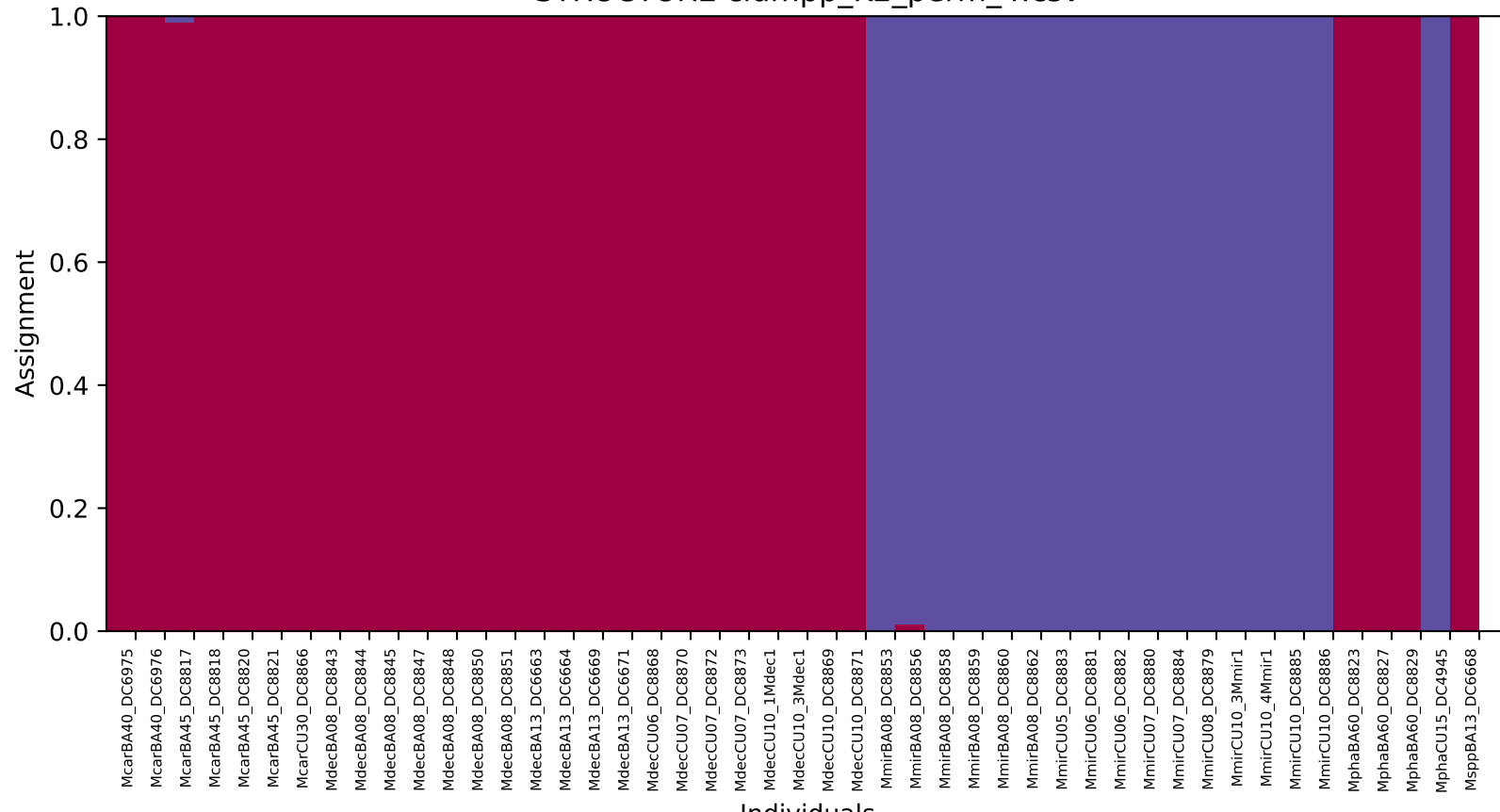
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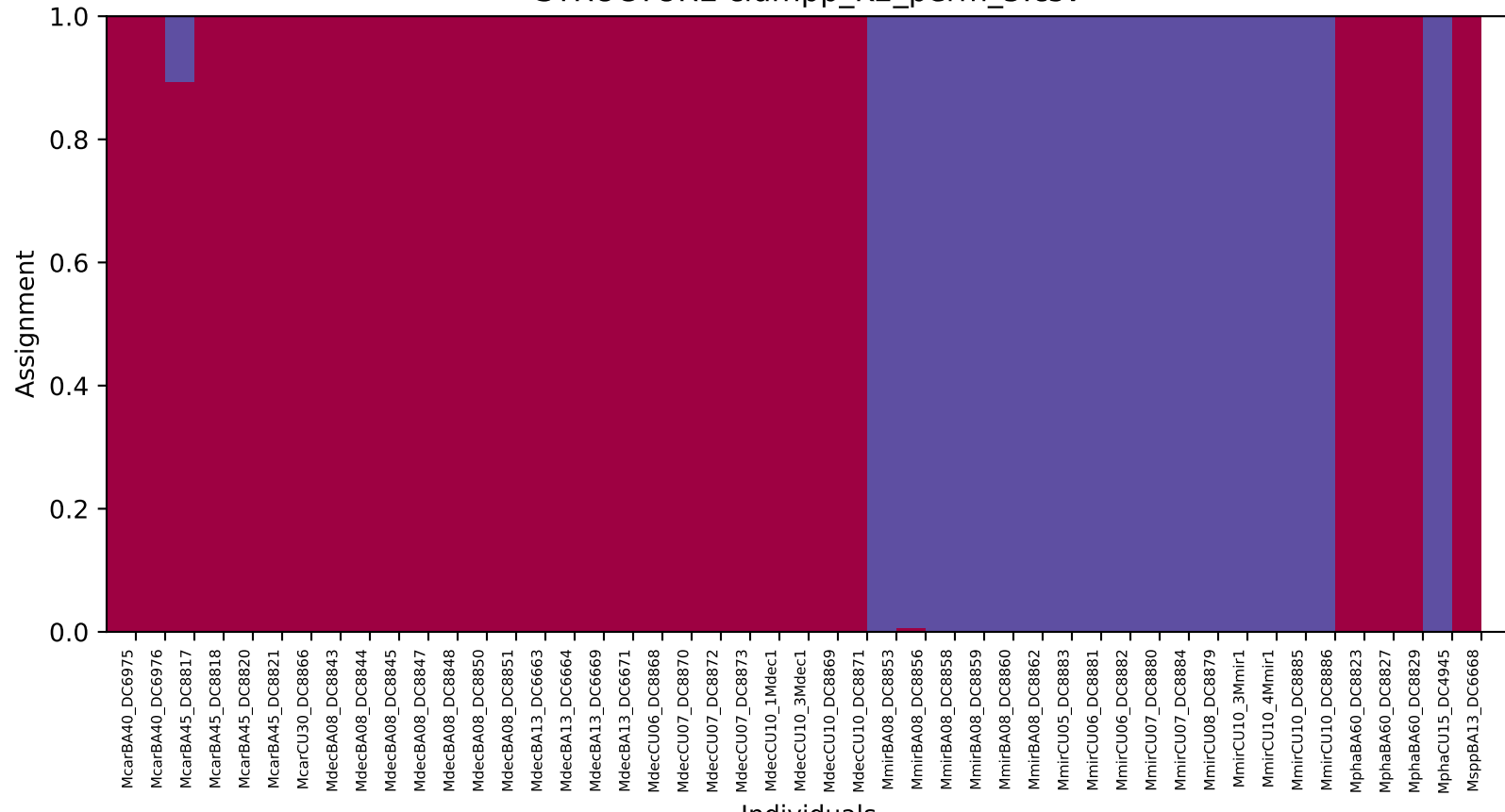
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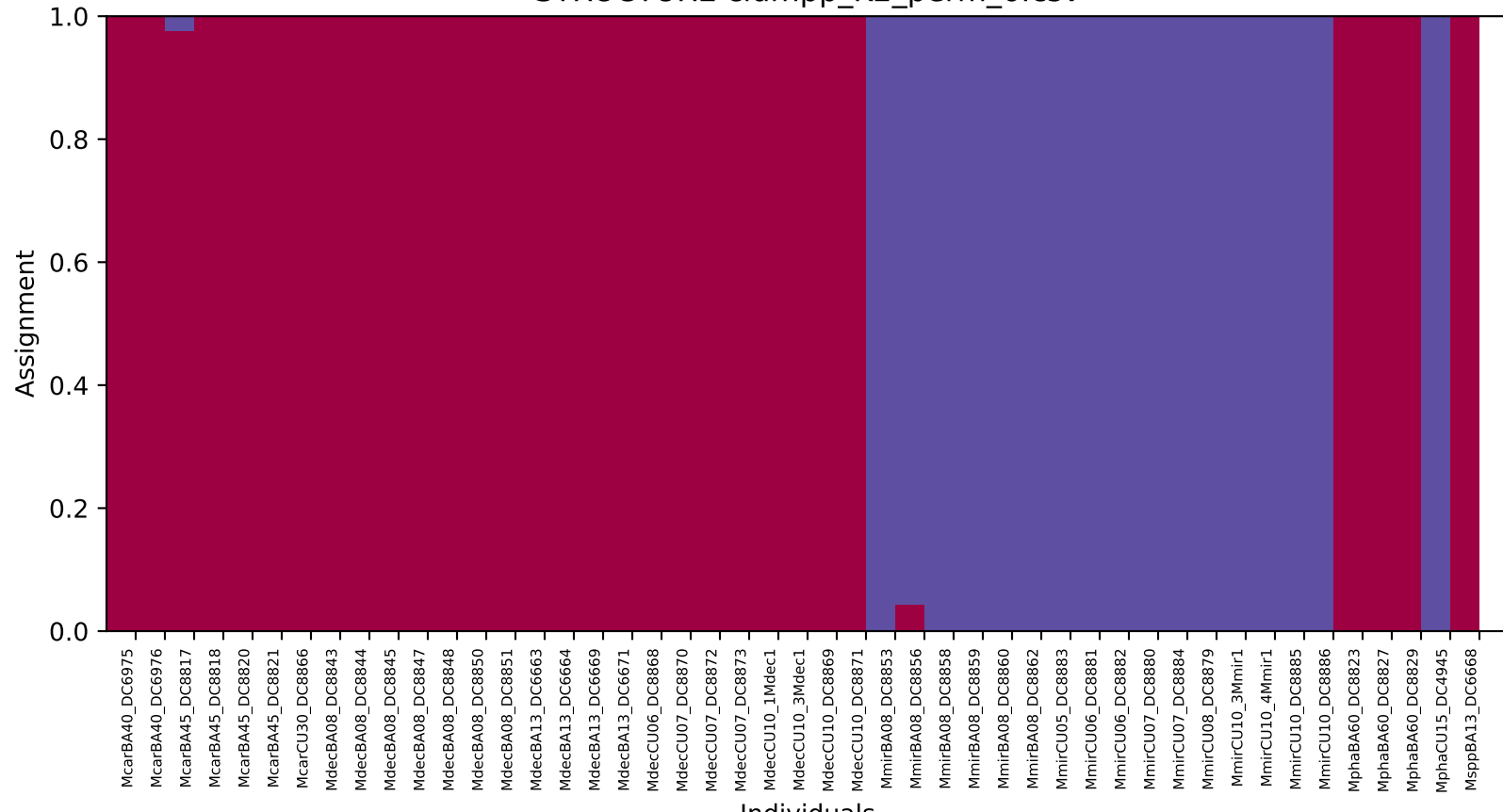
STRUCTURE clump_K2_perm_4.csv



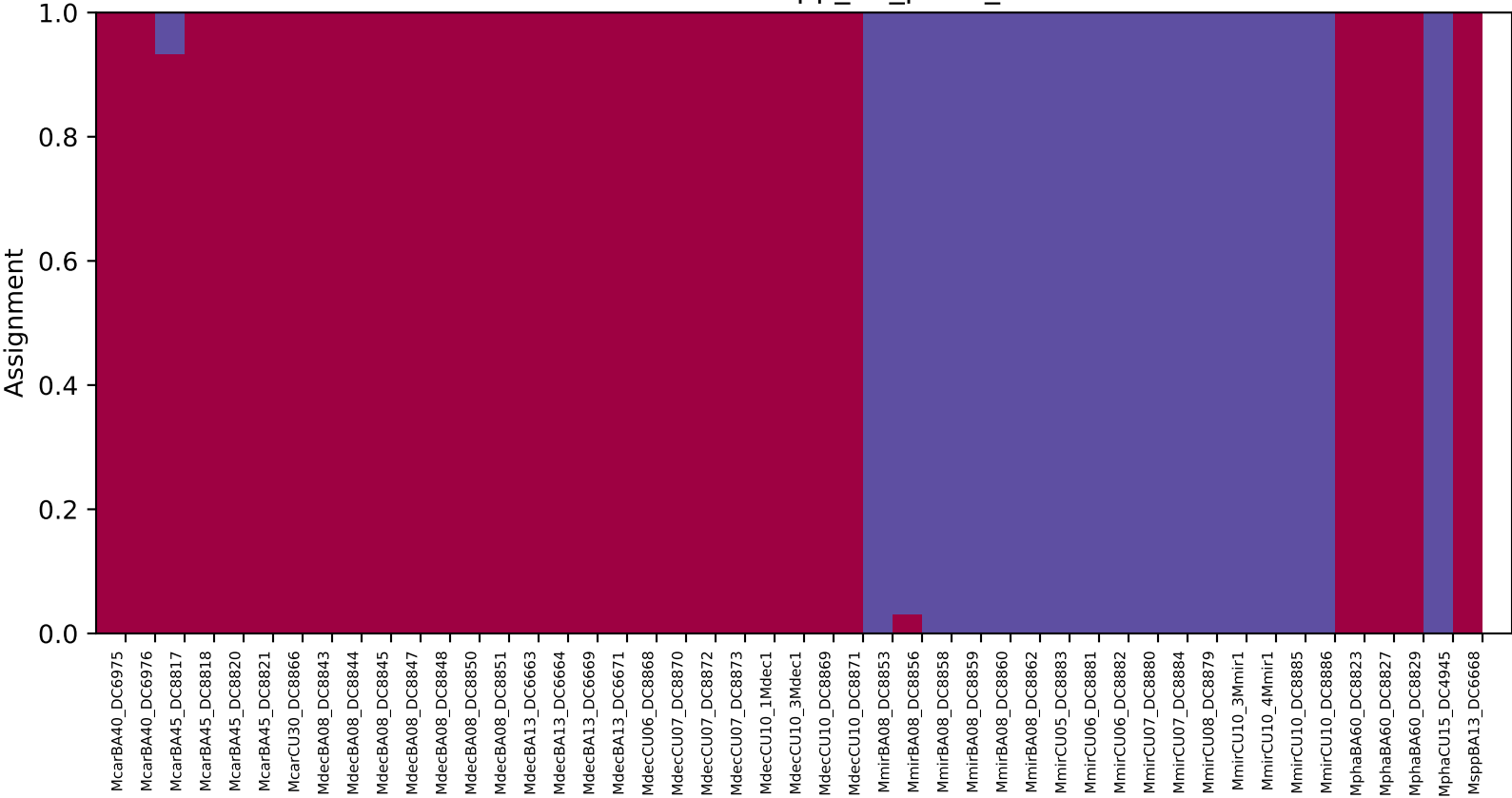
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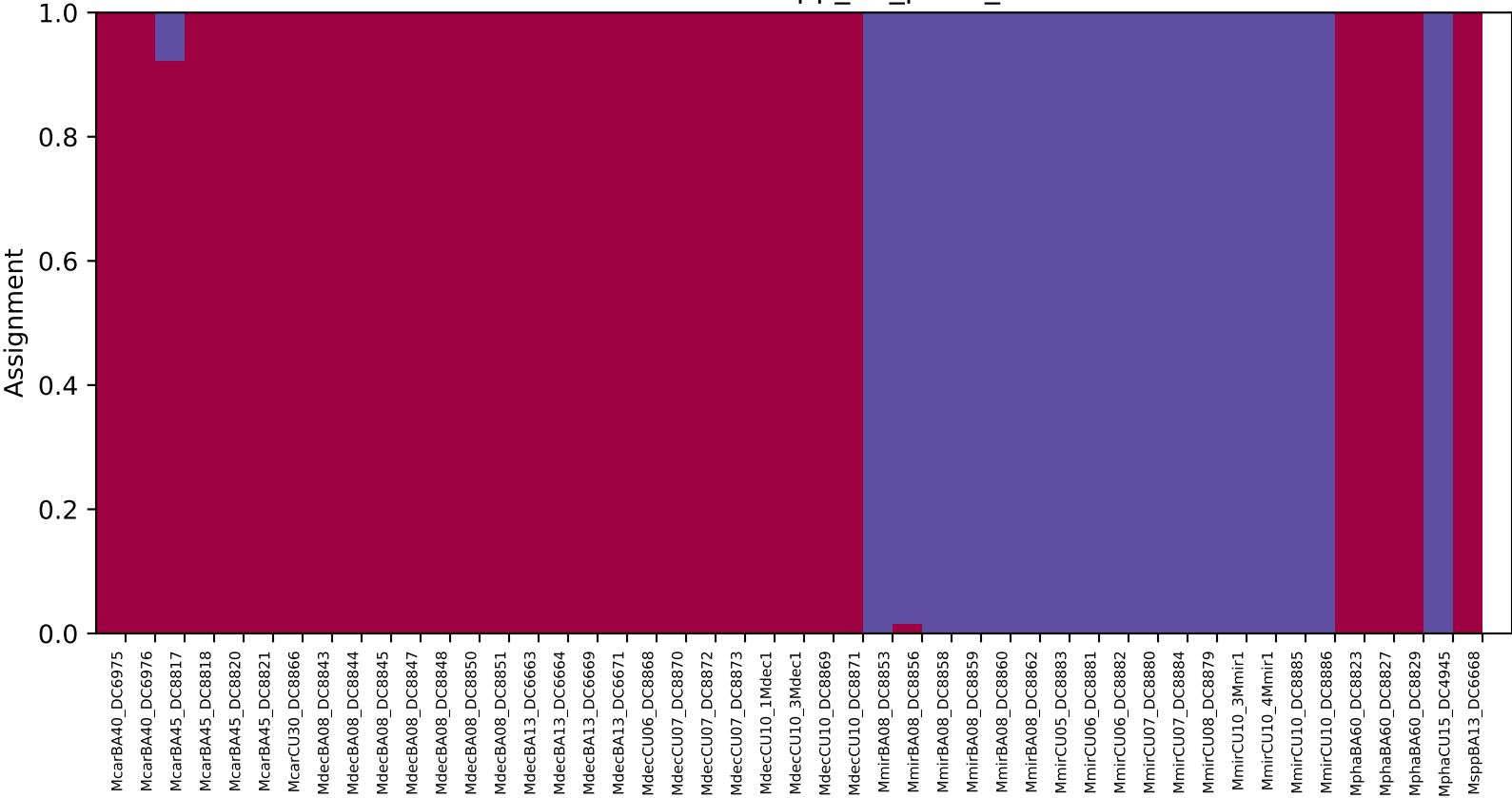
STRUCTURE clumpp_K2_perm_6.csv



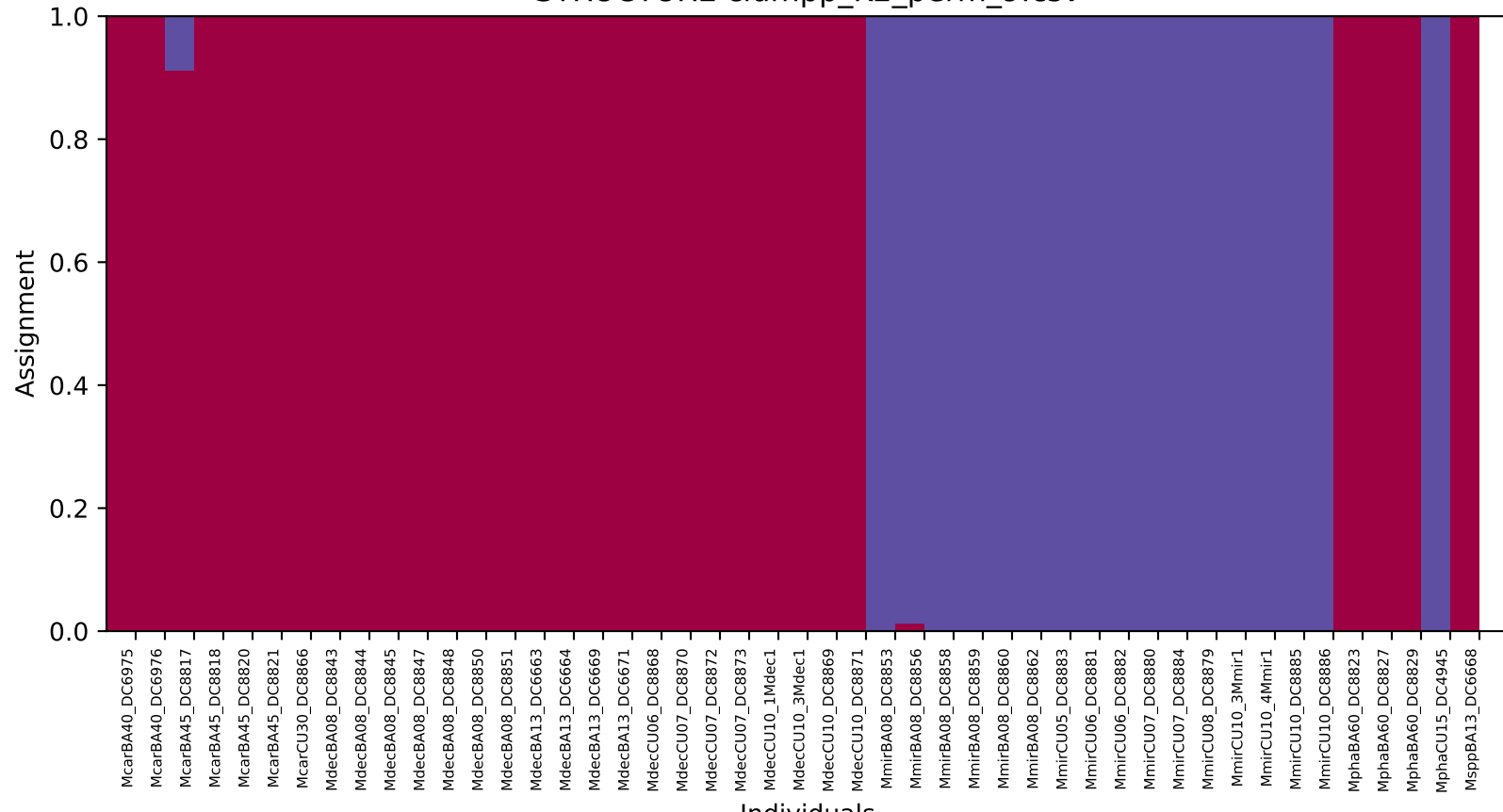
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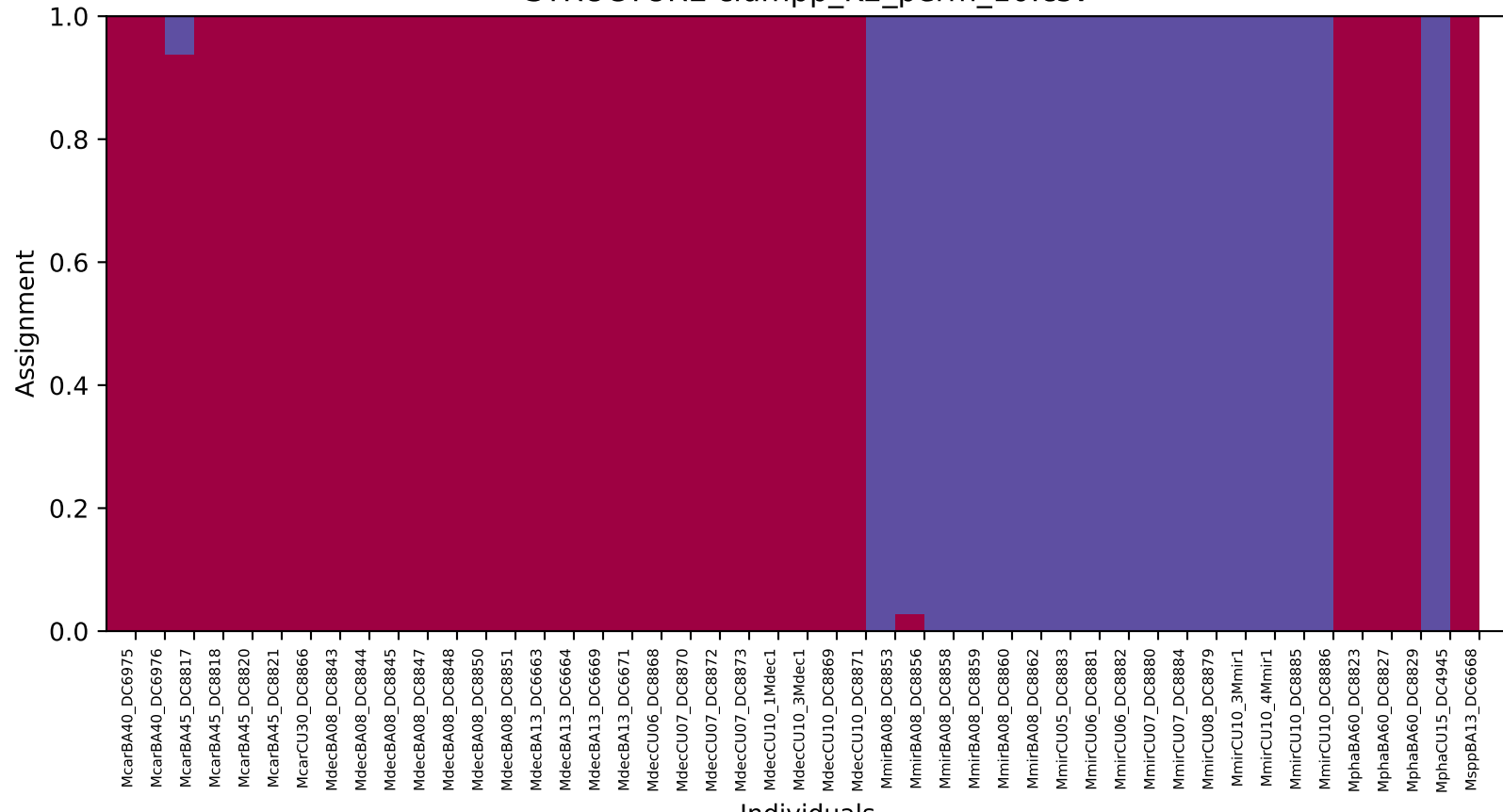
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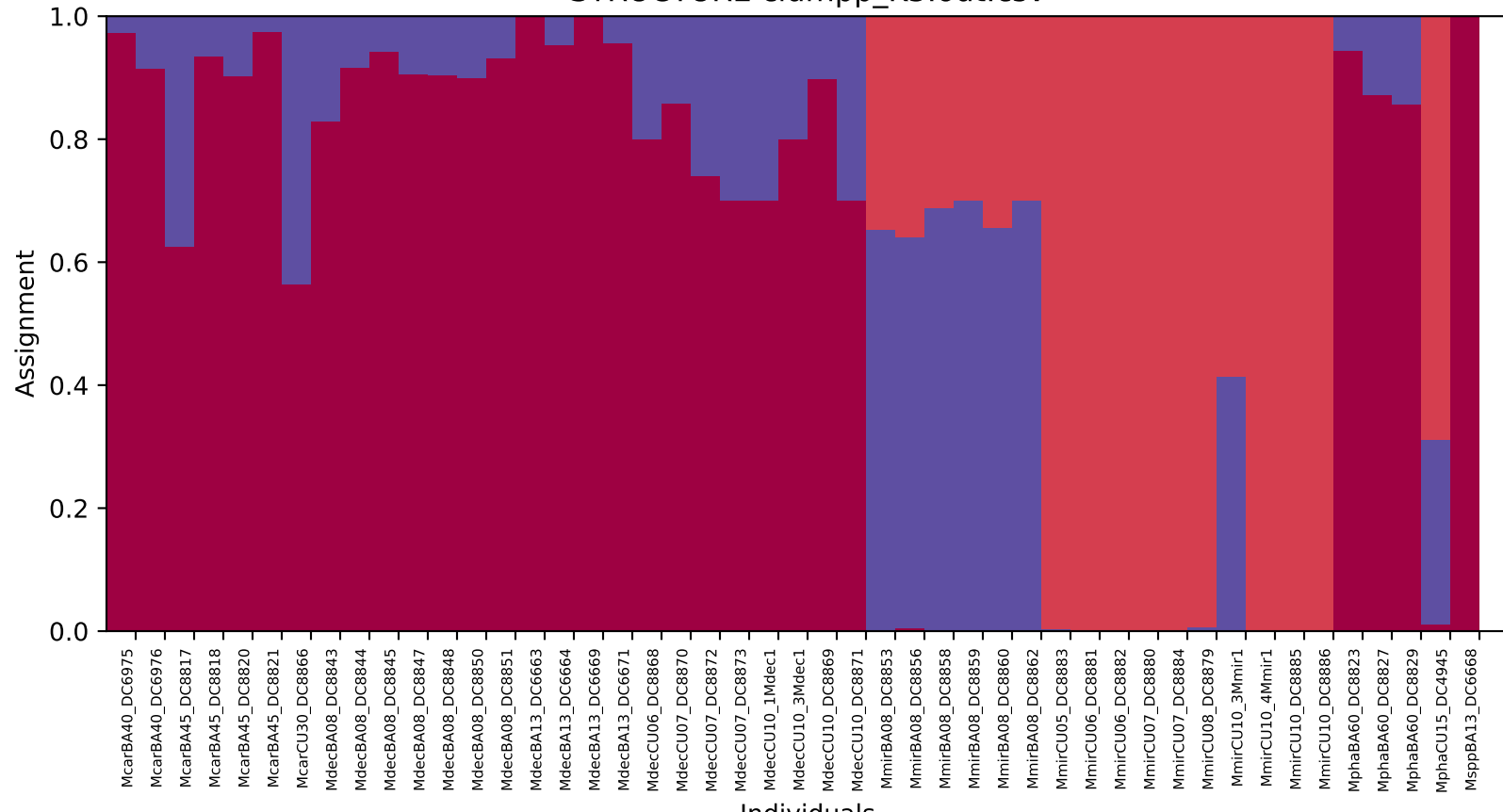
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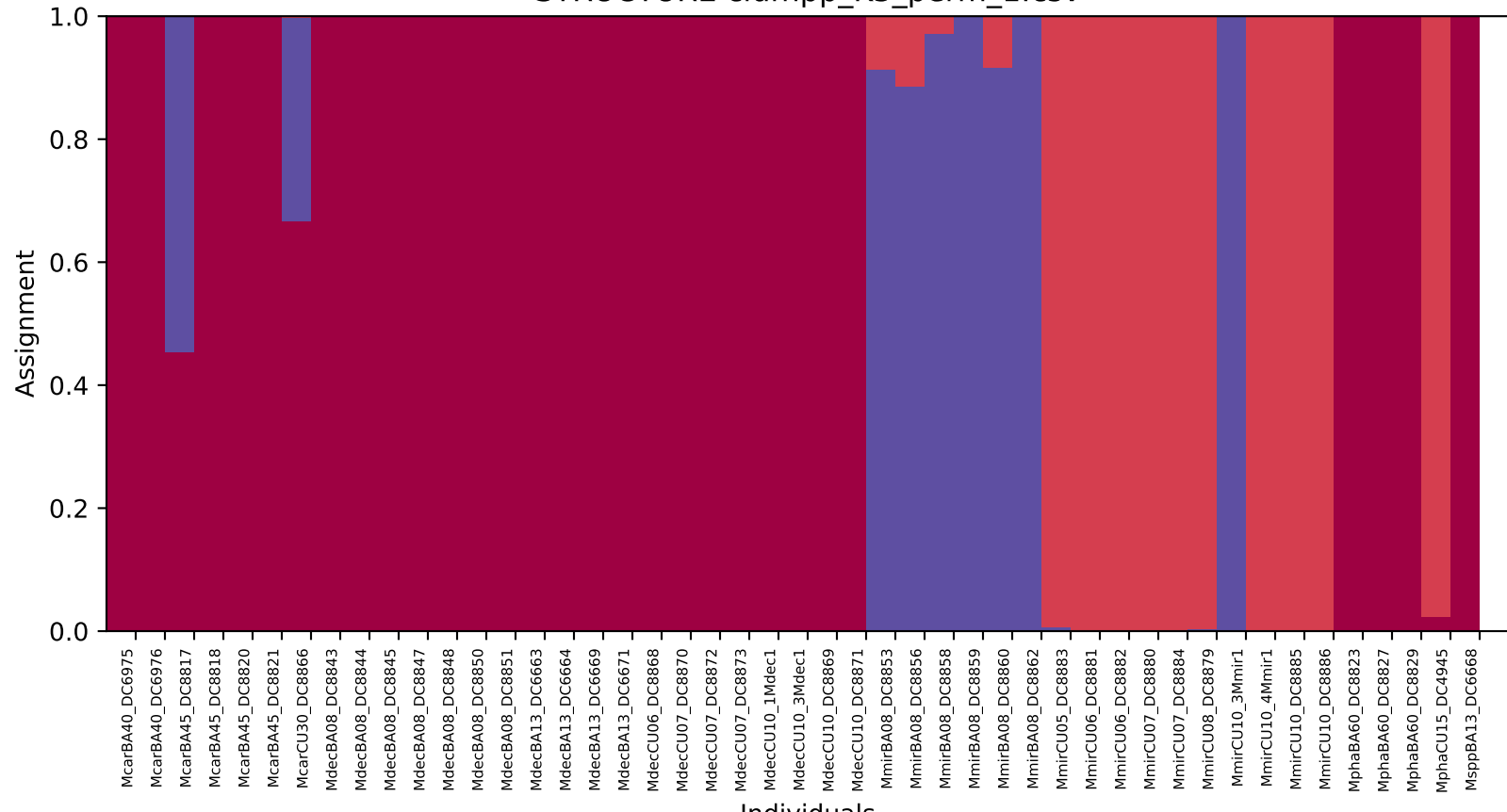
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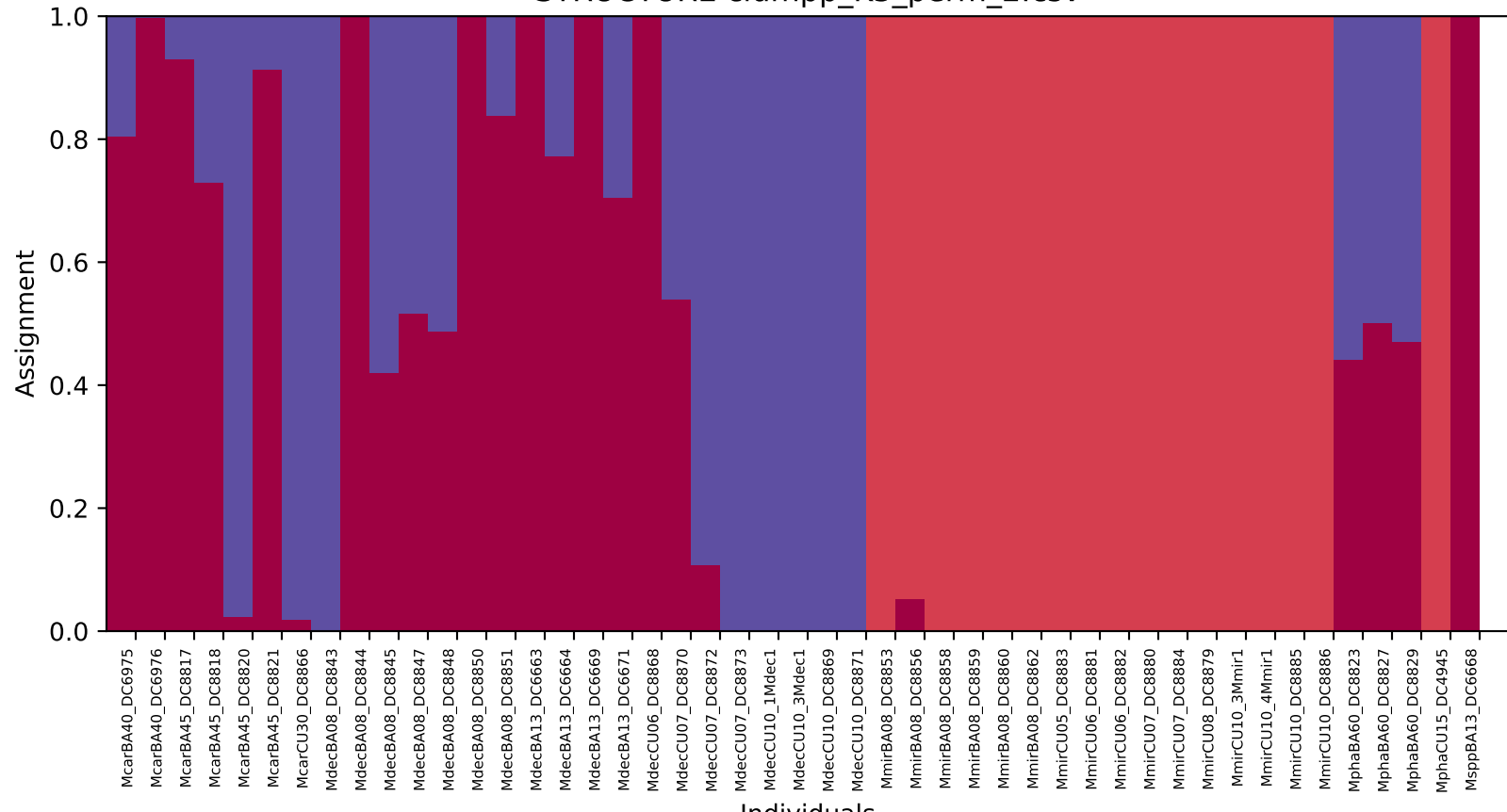
STRUCTURE clump_K3.out.csv



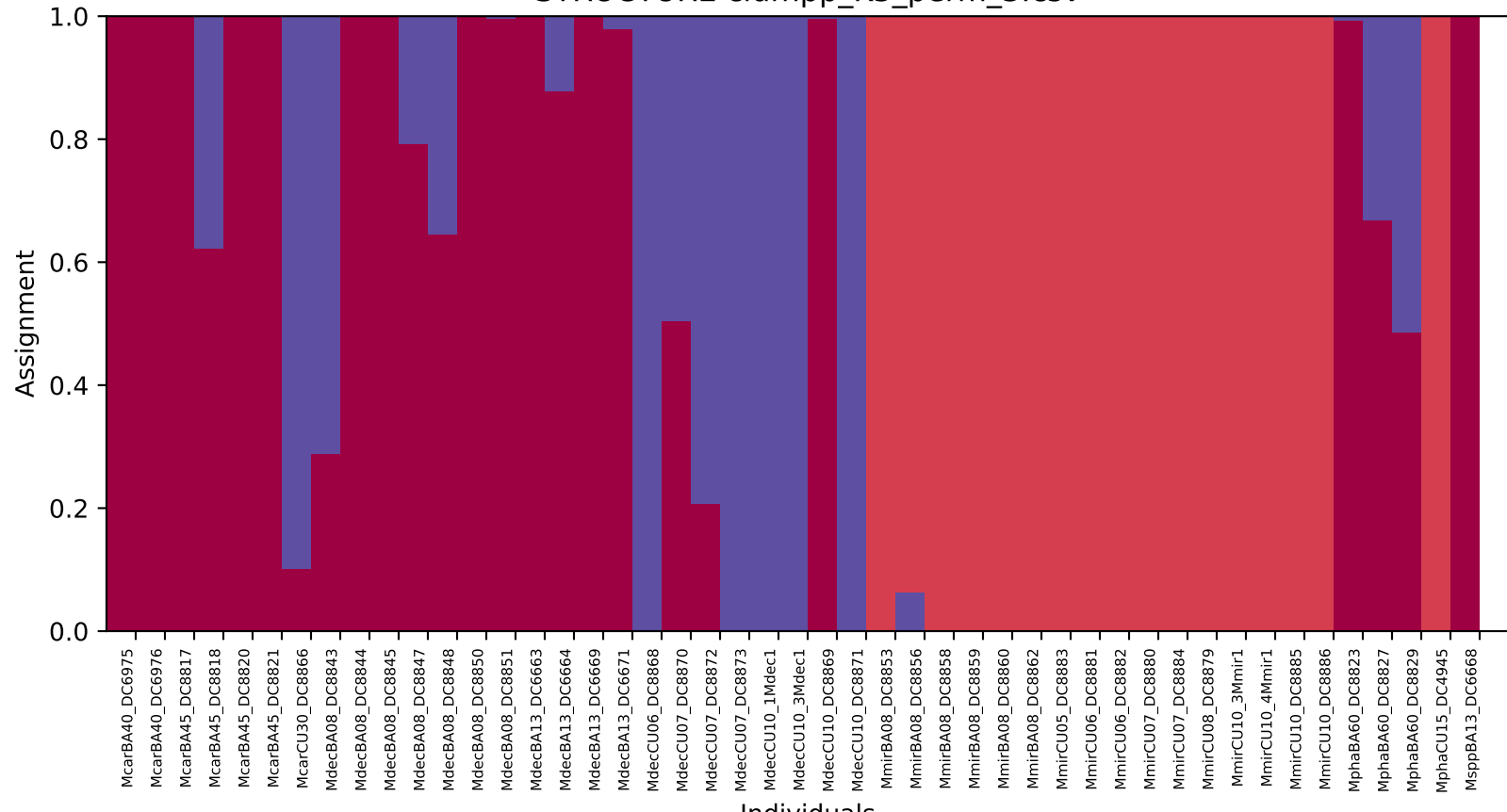
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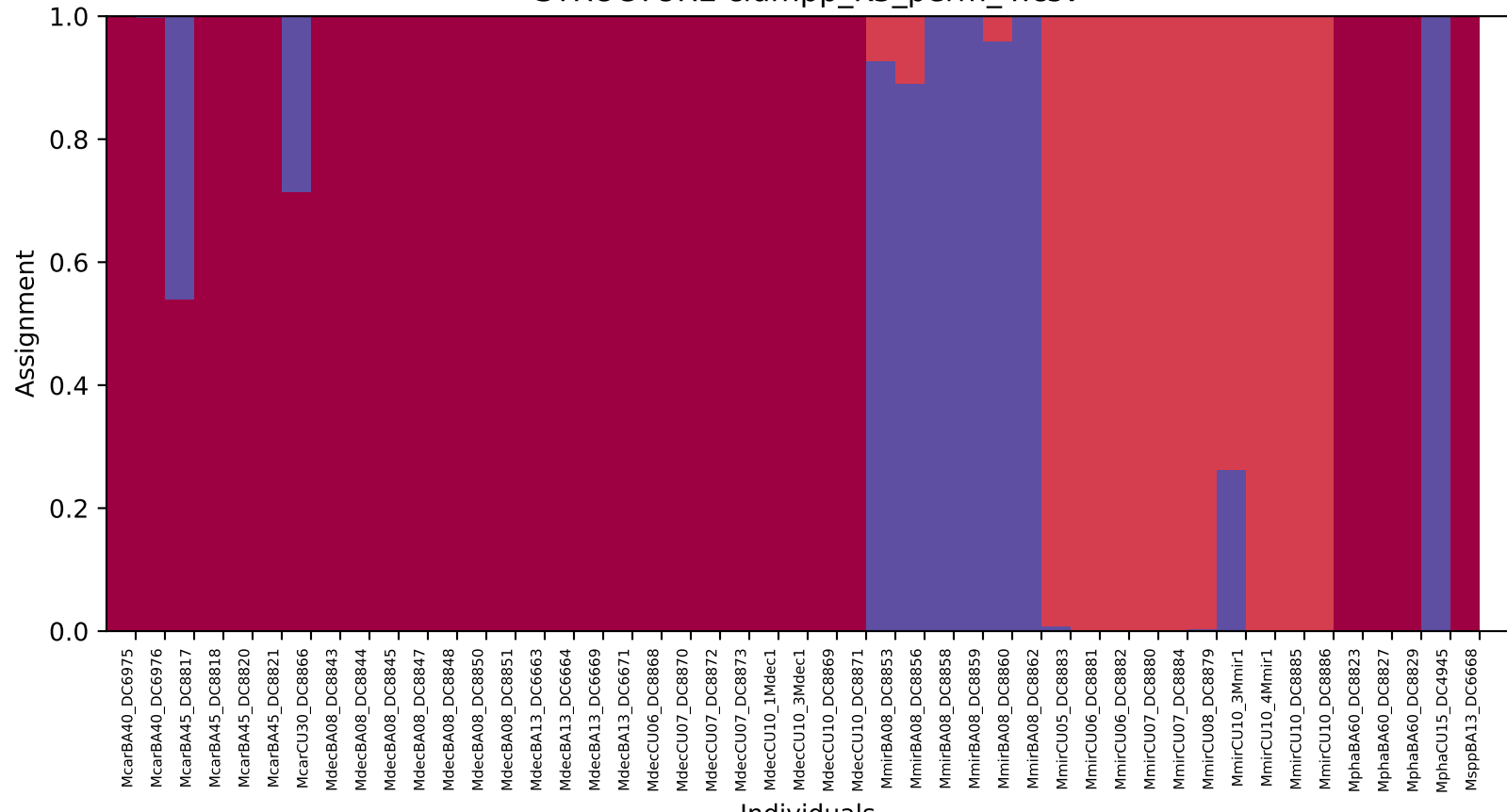
STRUCTURE clumpp_K3_perm_2.csv



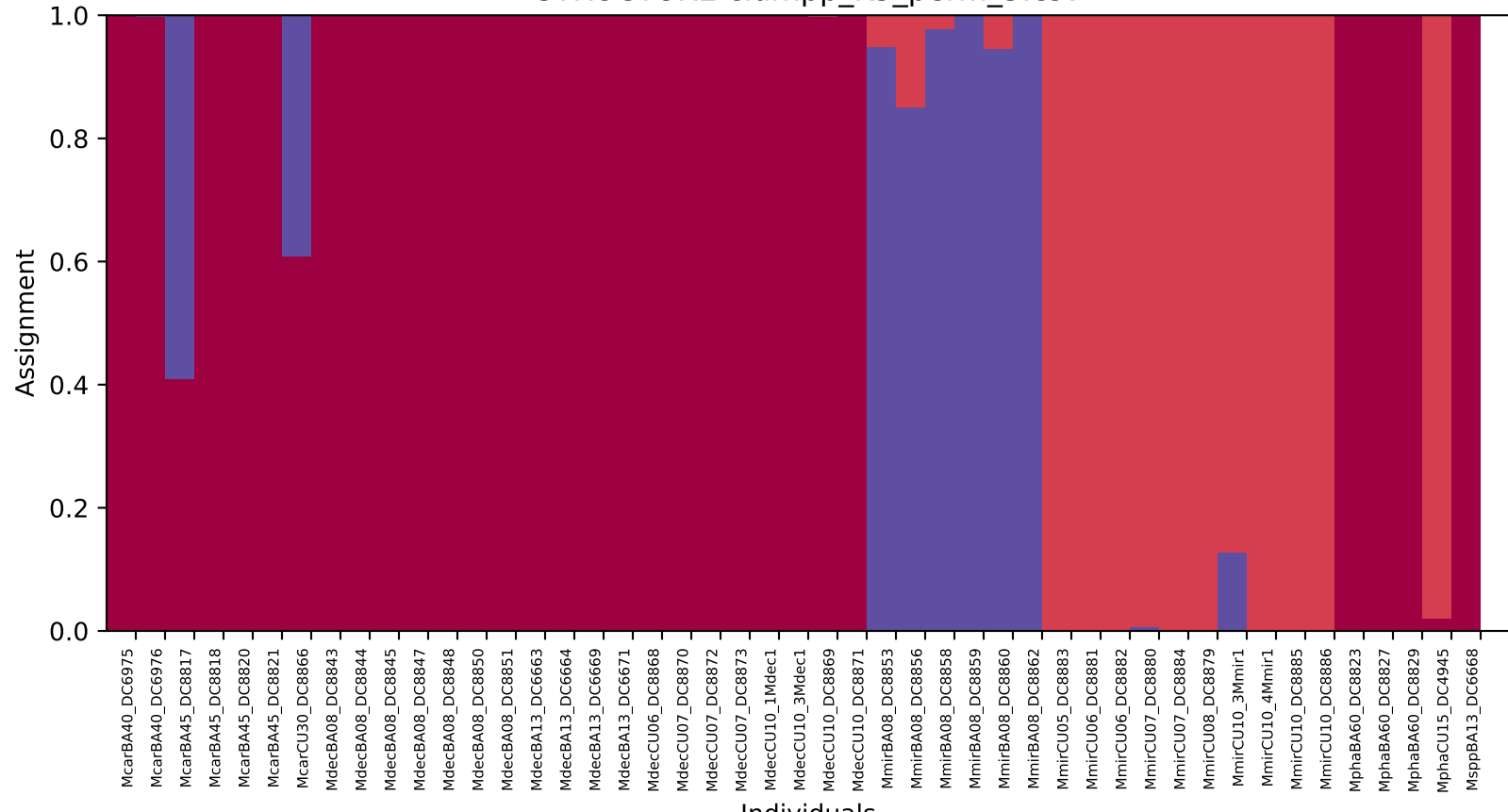
STRUCTURE clump_K3_perm_3.csv



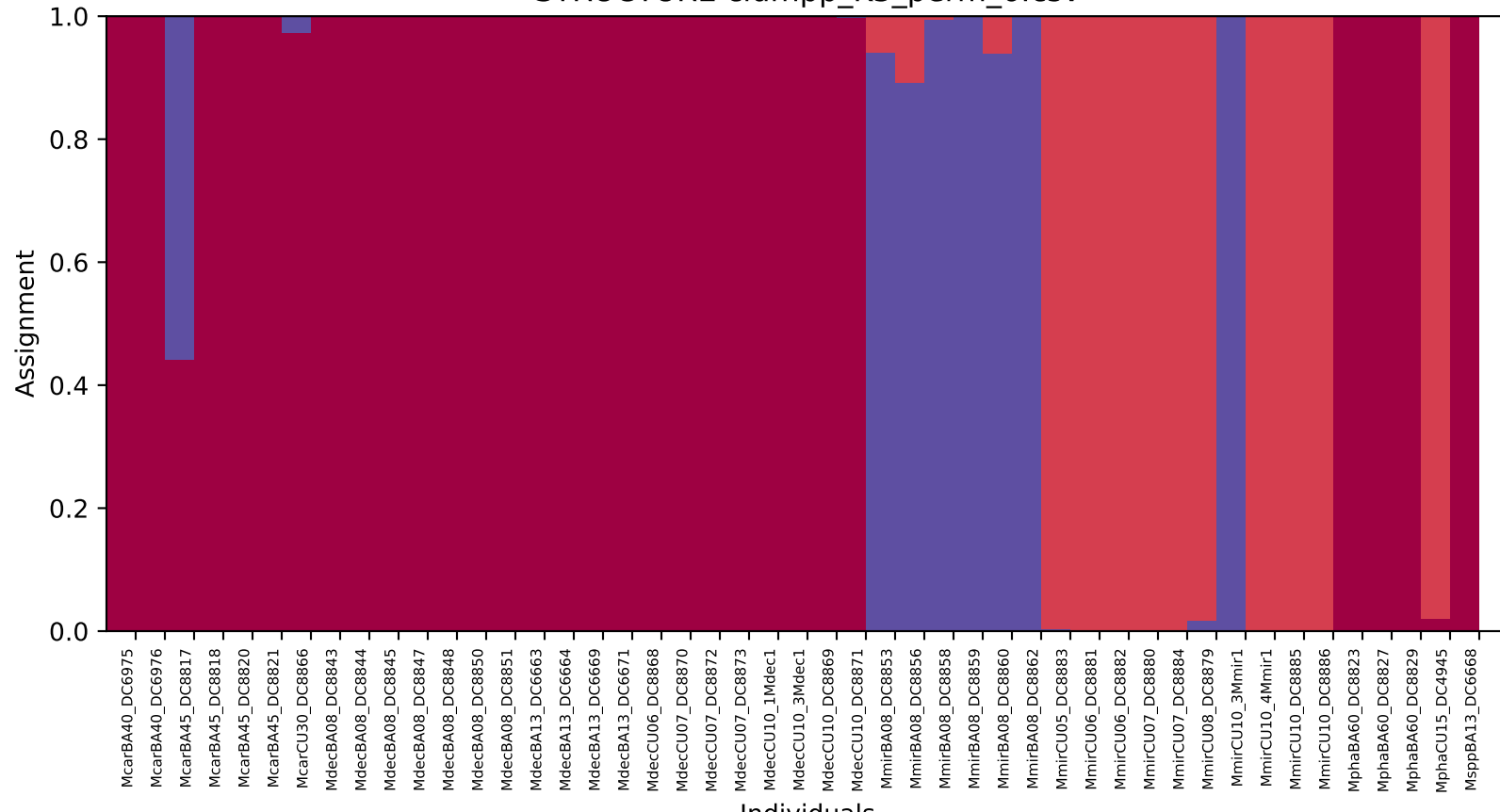
STRUCTURE clump_K3_perm_4.csv



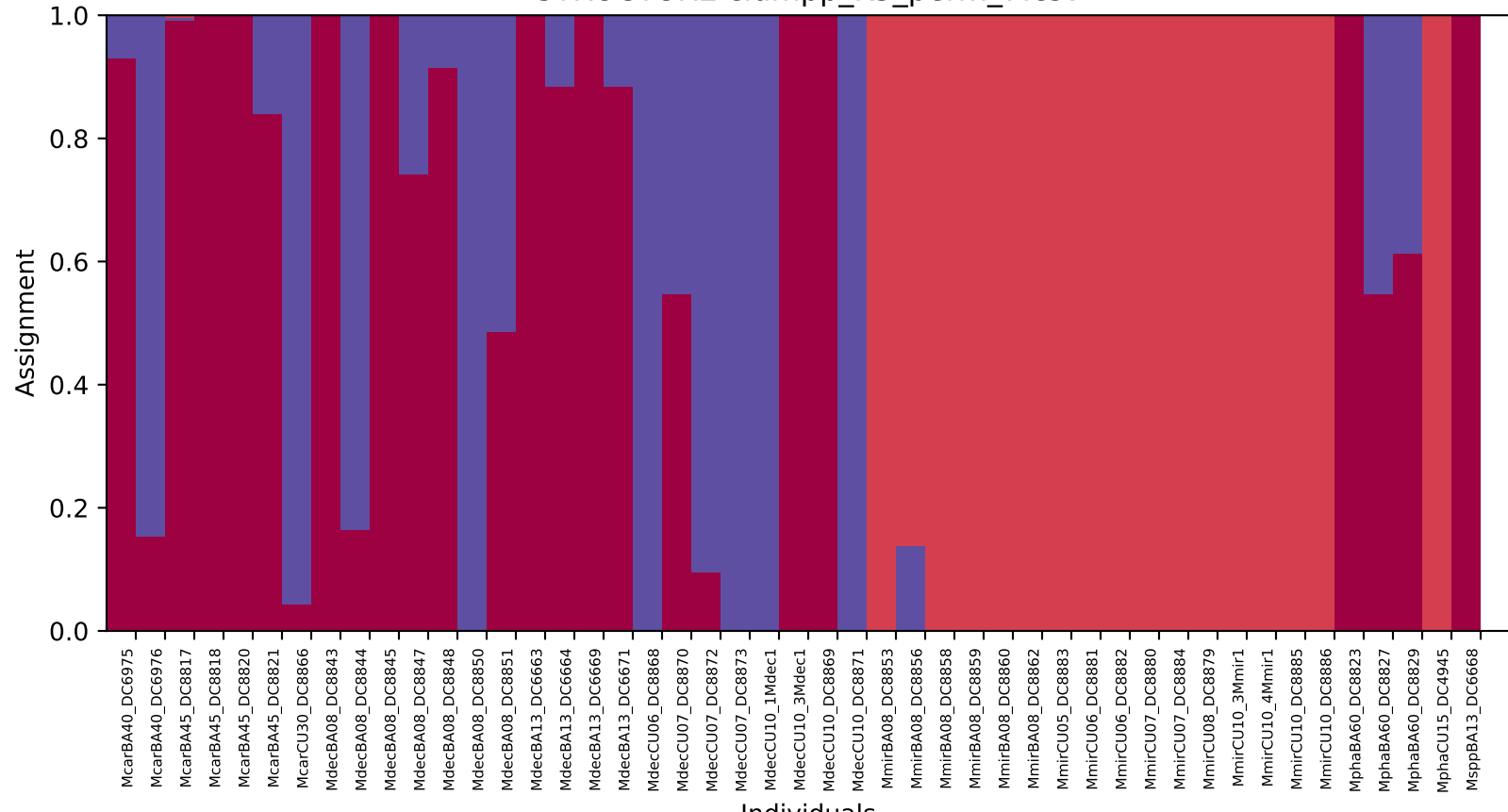
STRUCTURE clump_K3_perm_5.csv



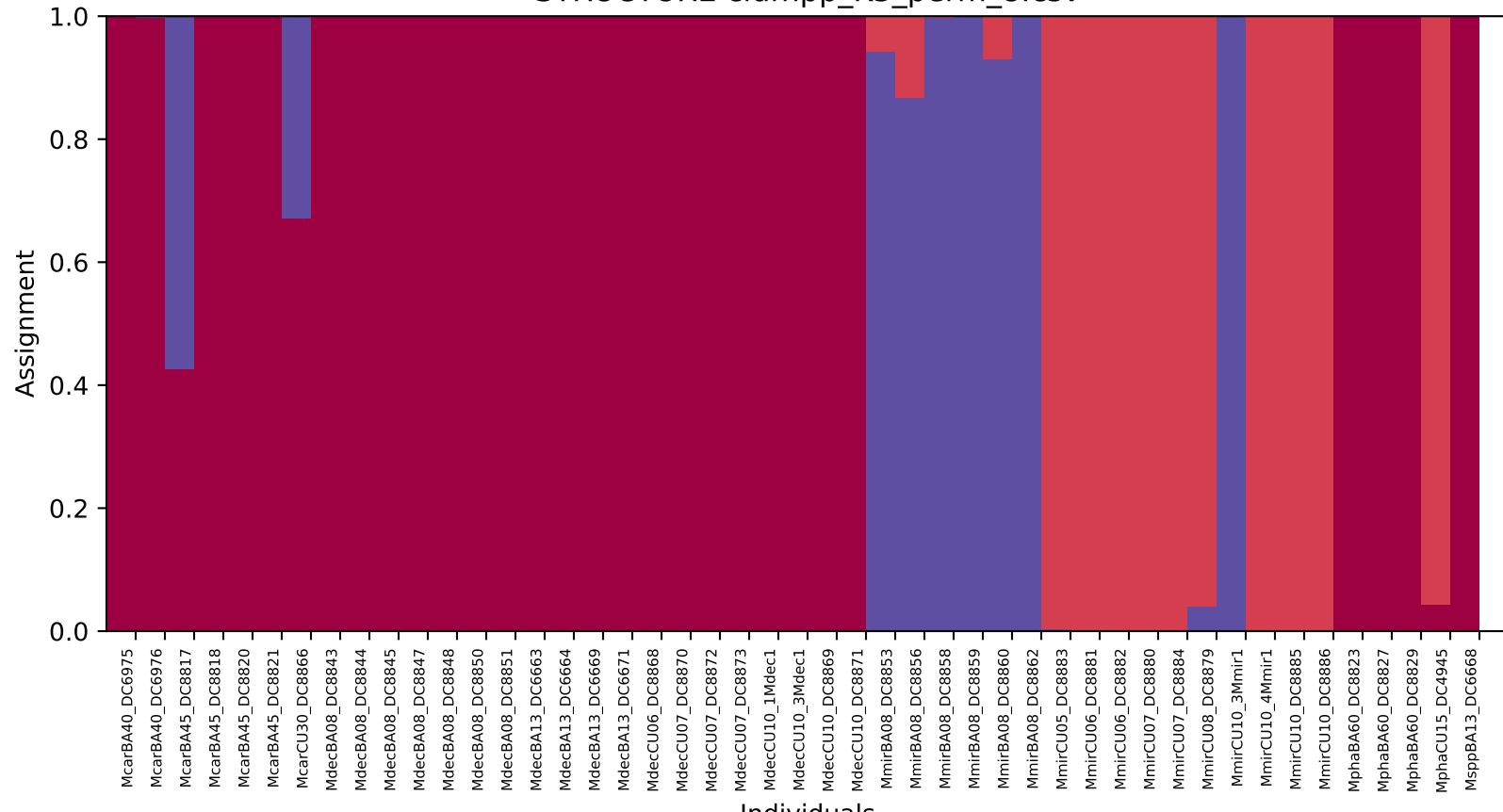
STRUCTURE clump_K3_perm_6.csv



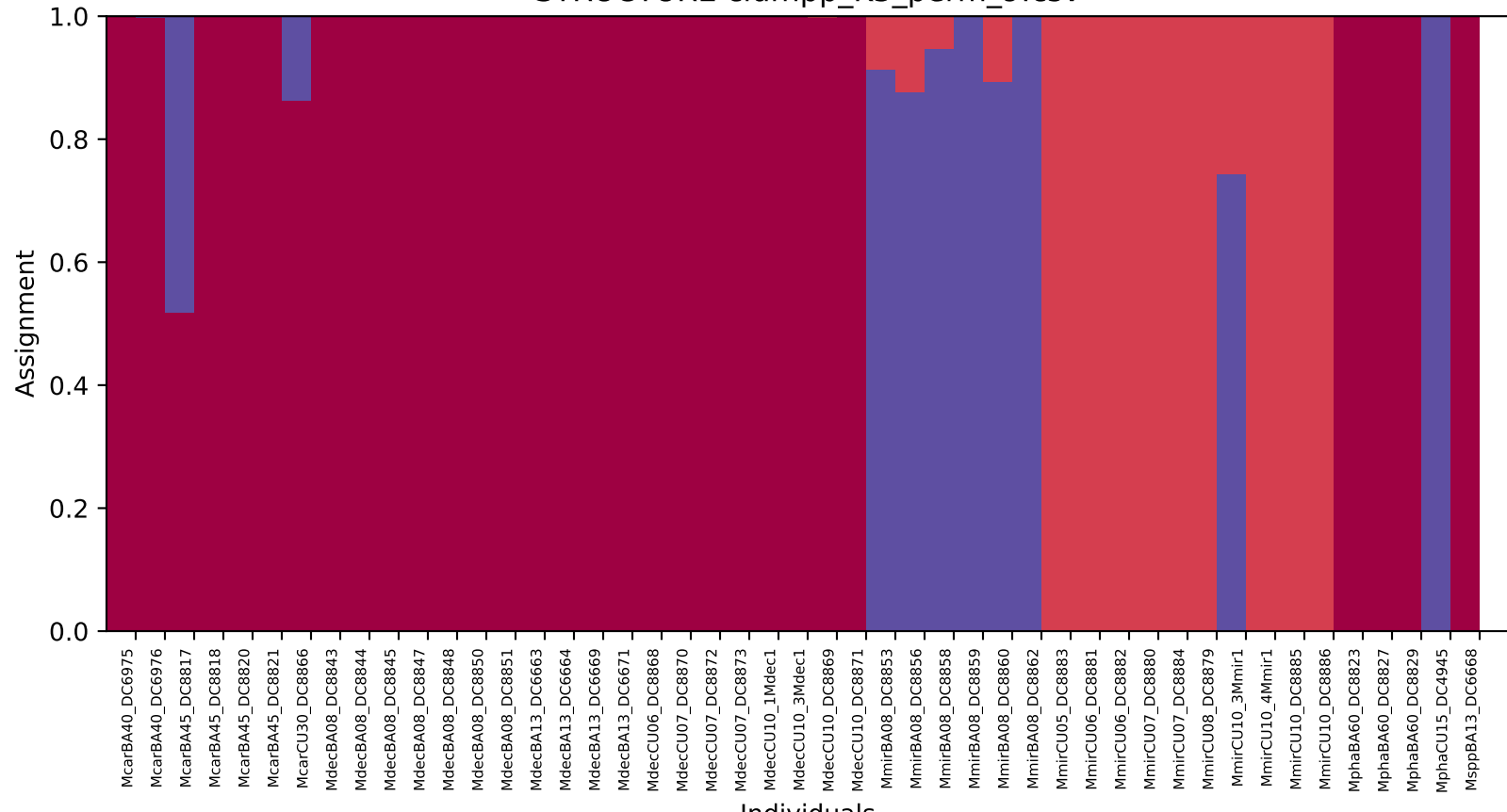
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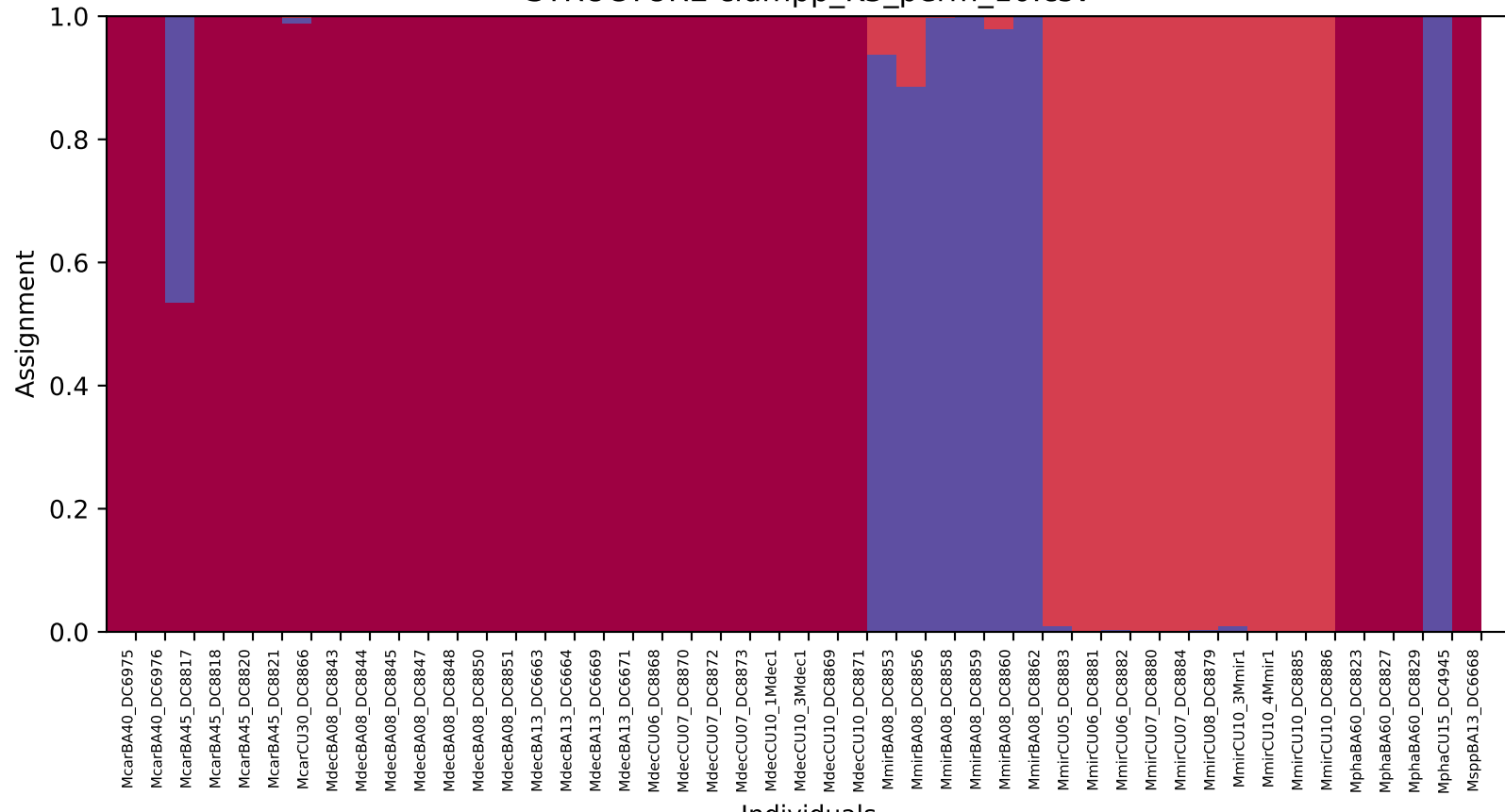
STRUCTURE clumpp_K3_perm_8.csv



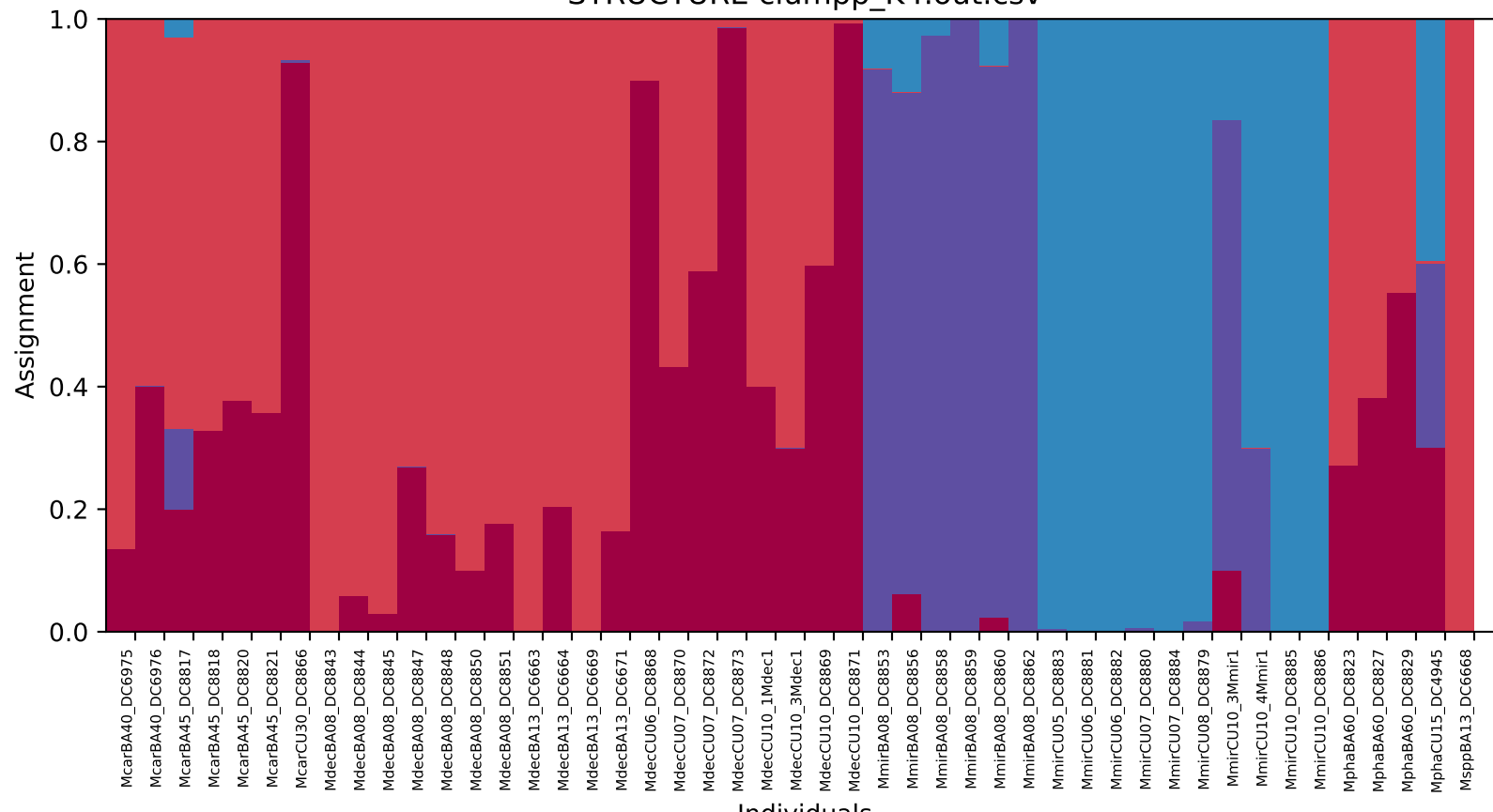
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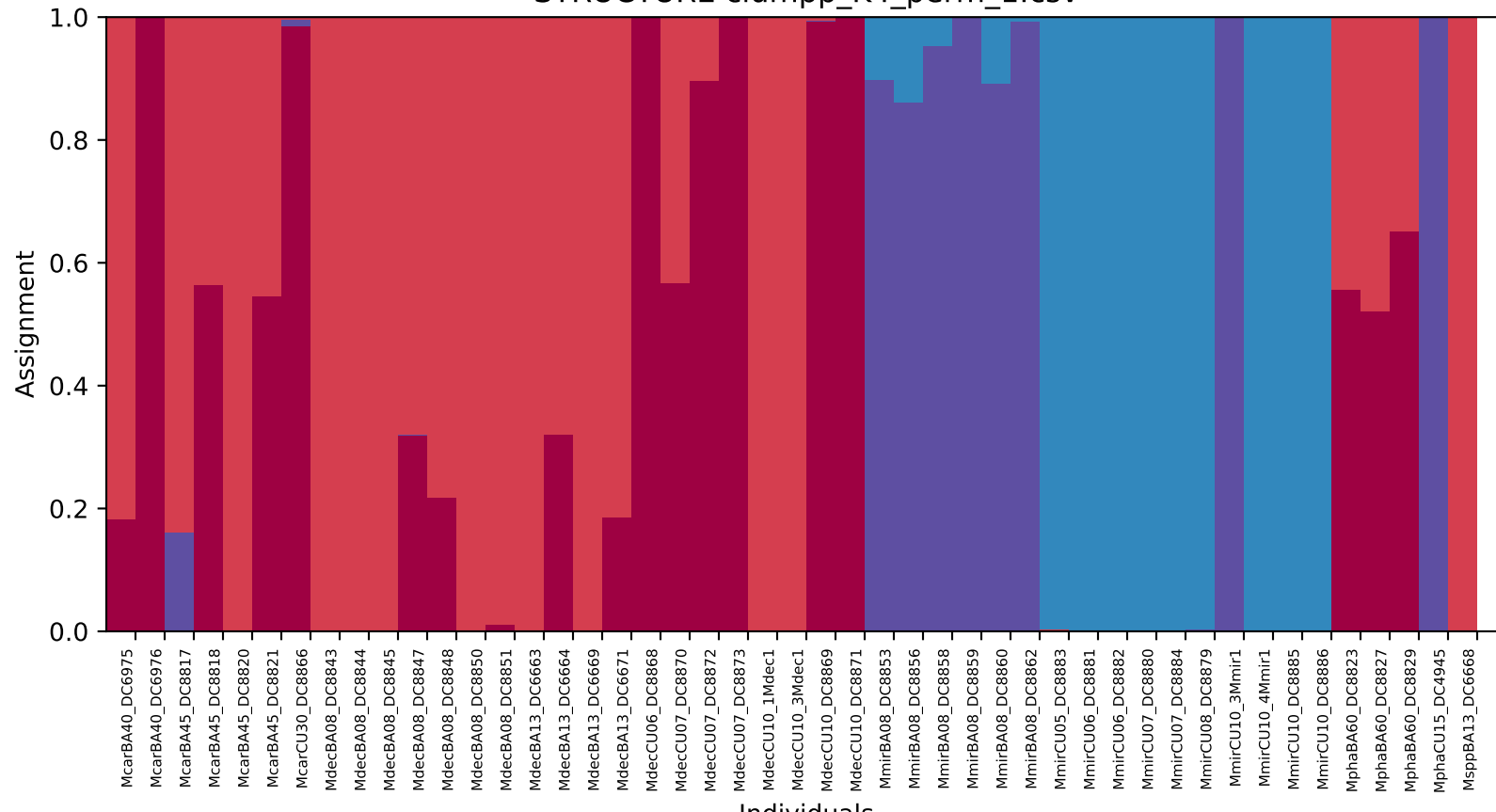
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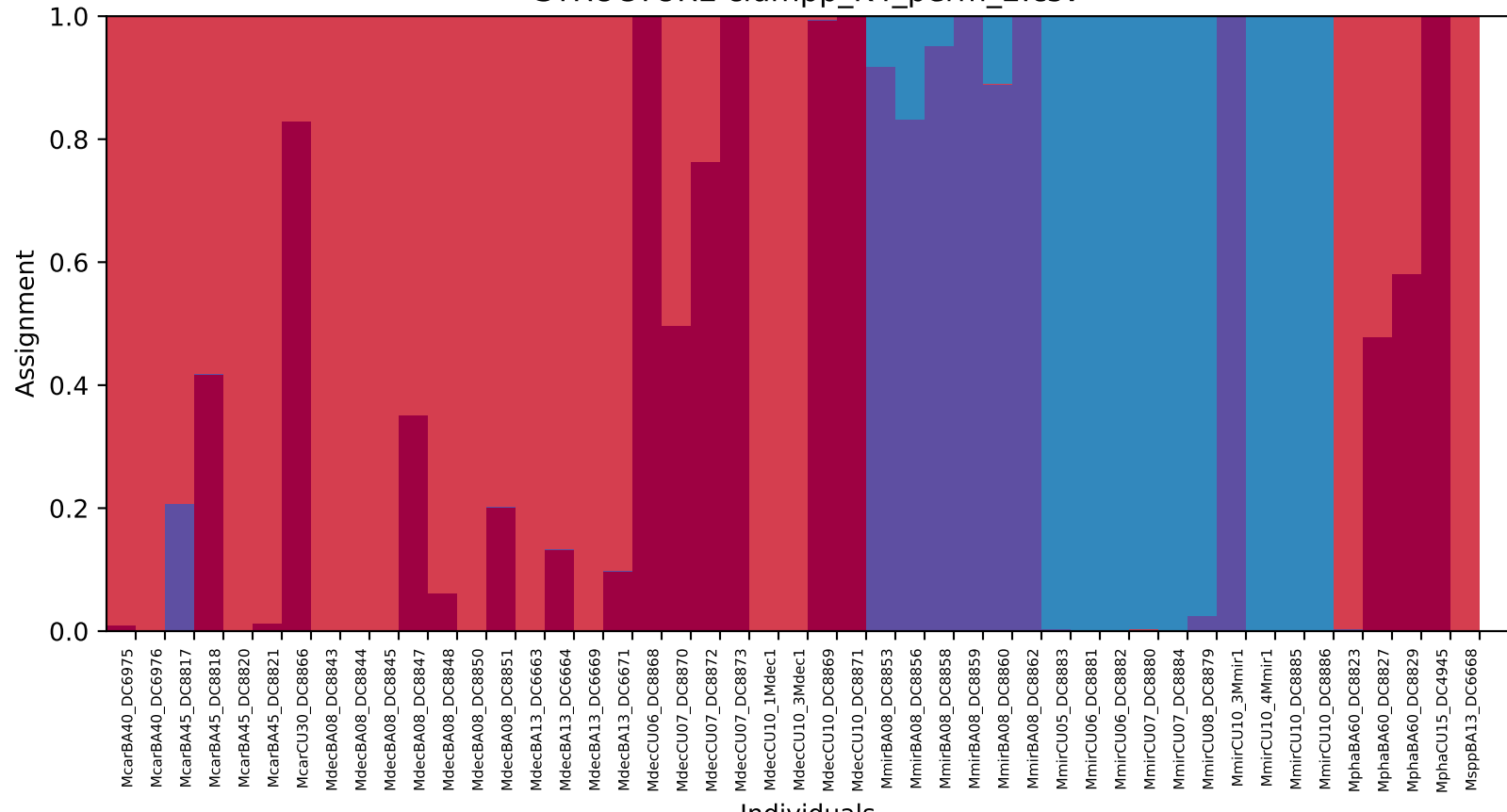
STRUCTURE clump_K4.out.csv



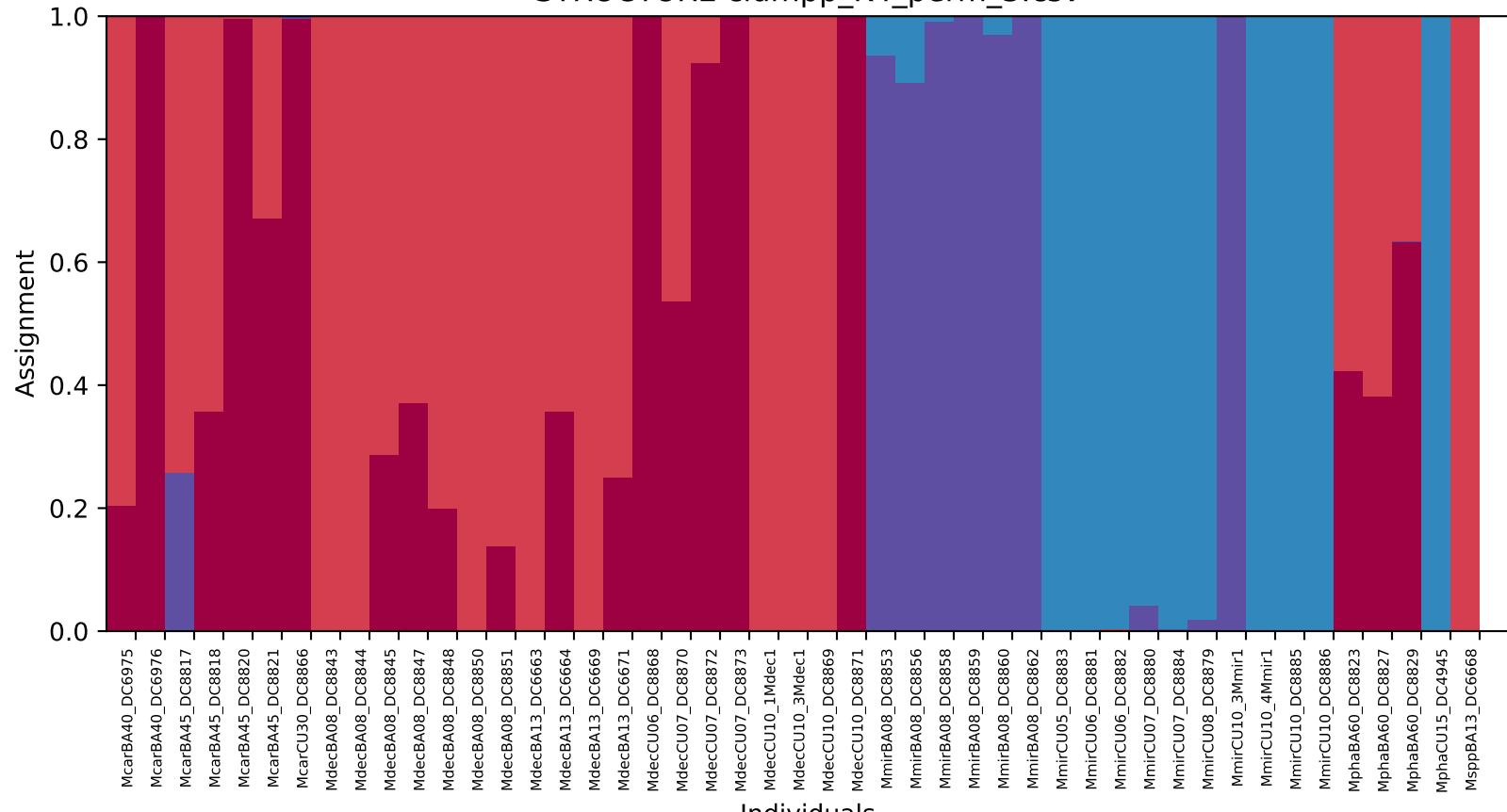
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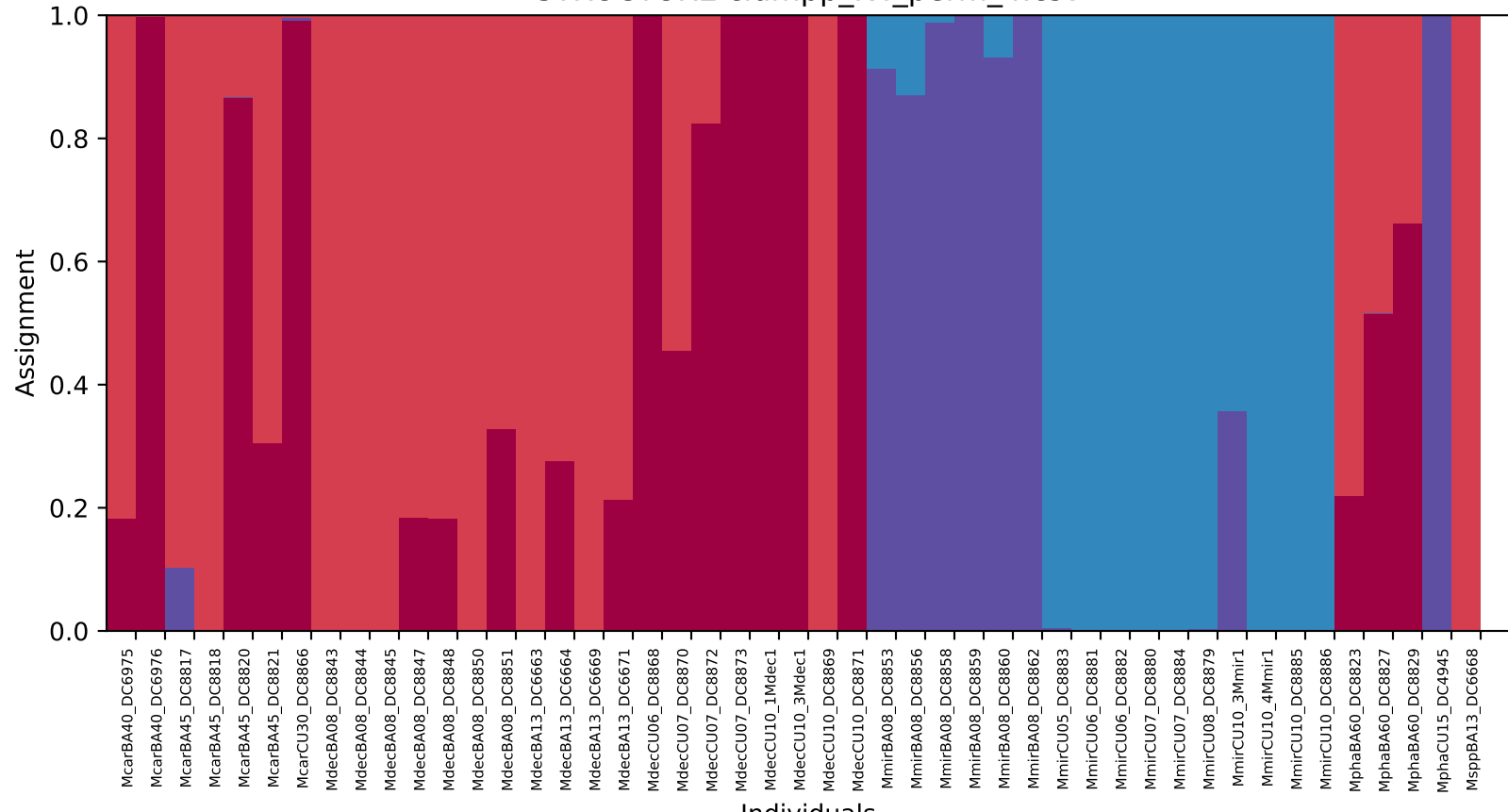
STRUCTURE clumpp_K4_perm_2.csv



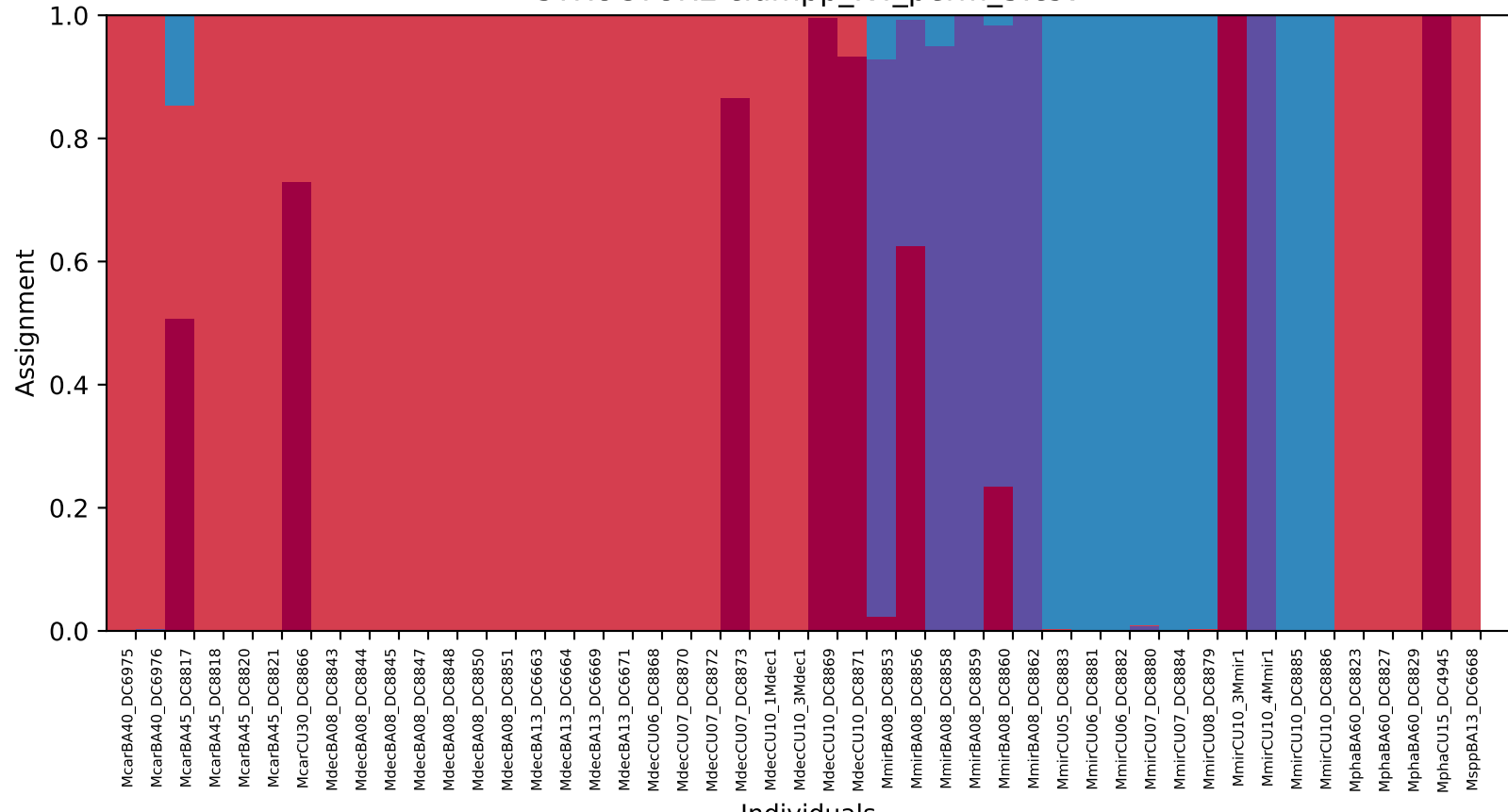
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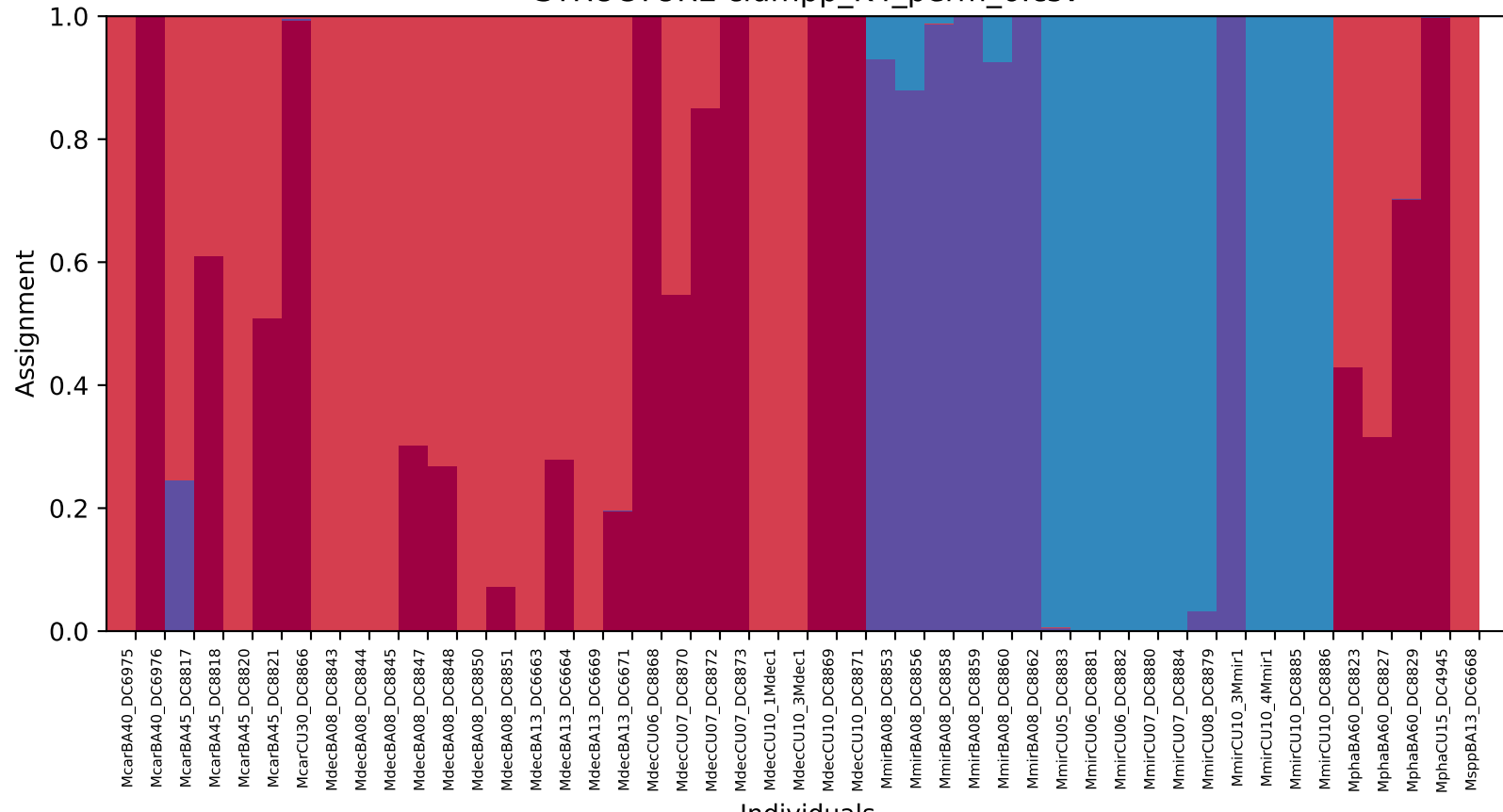
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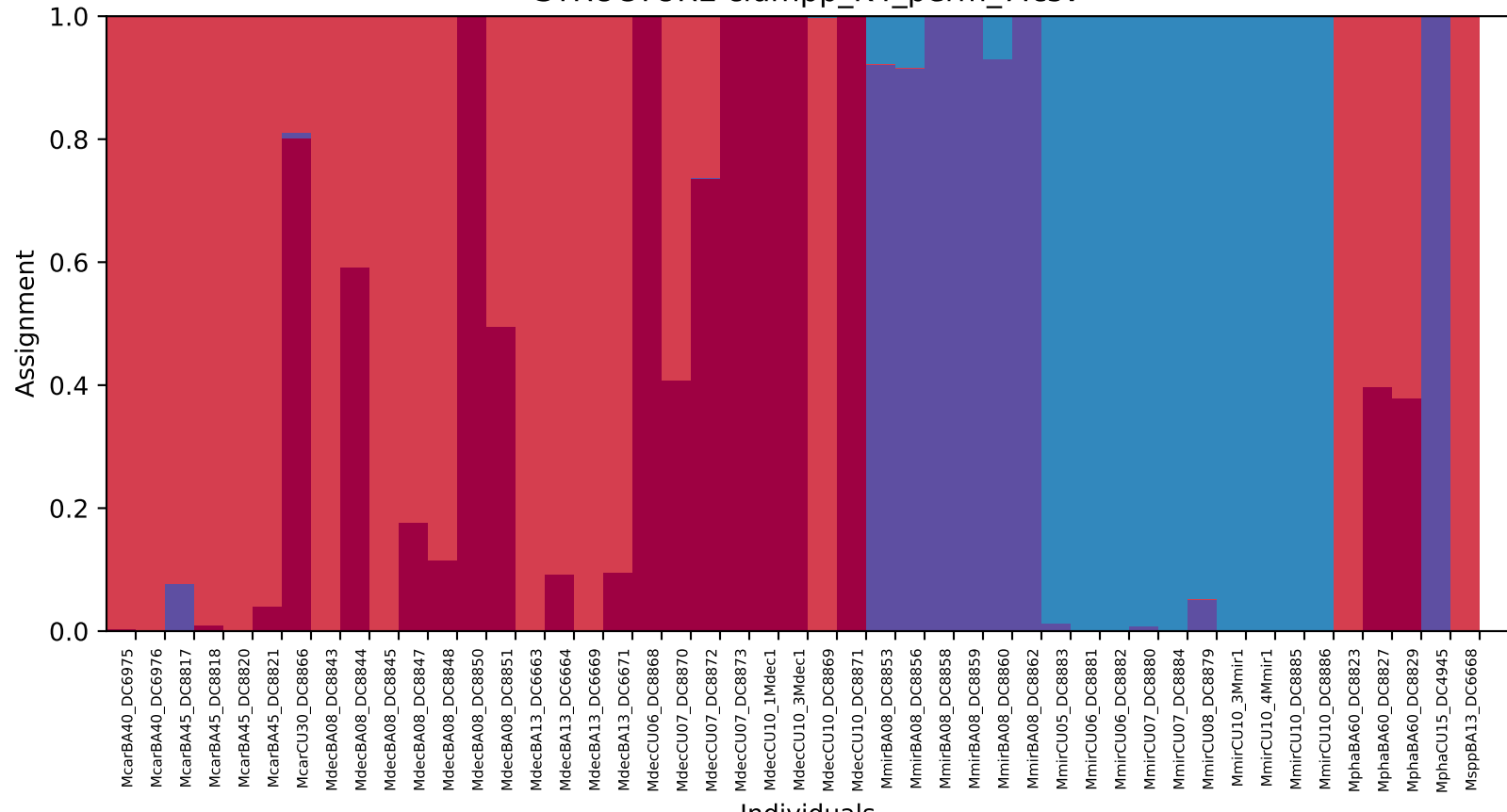
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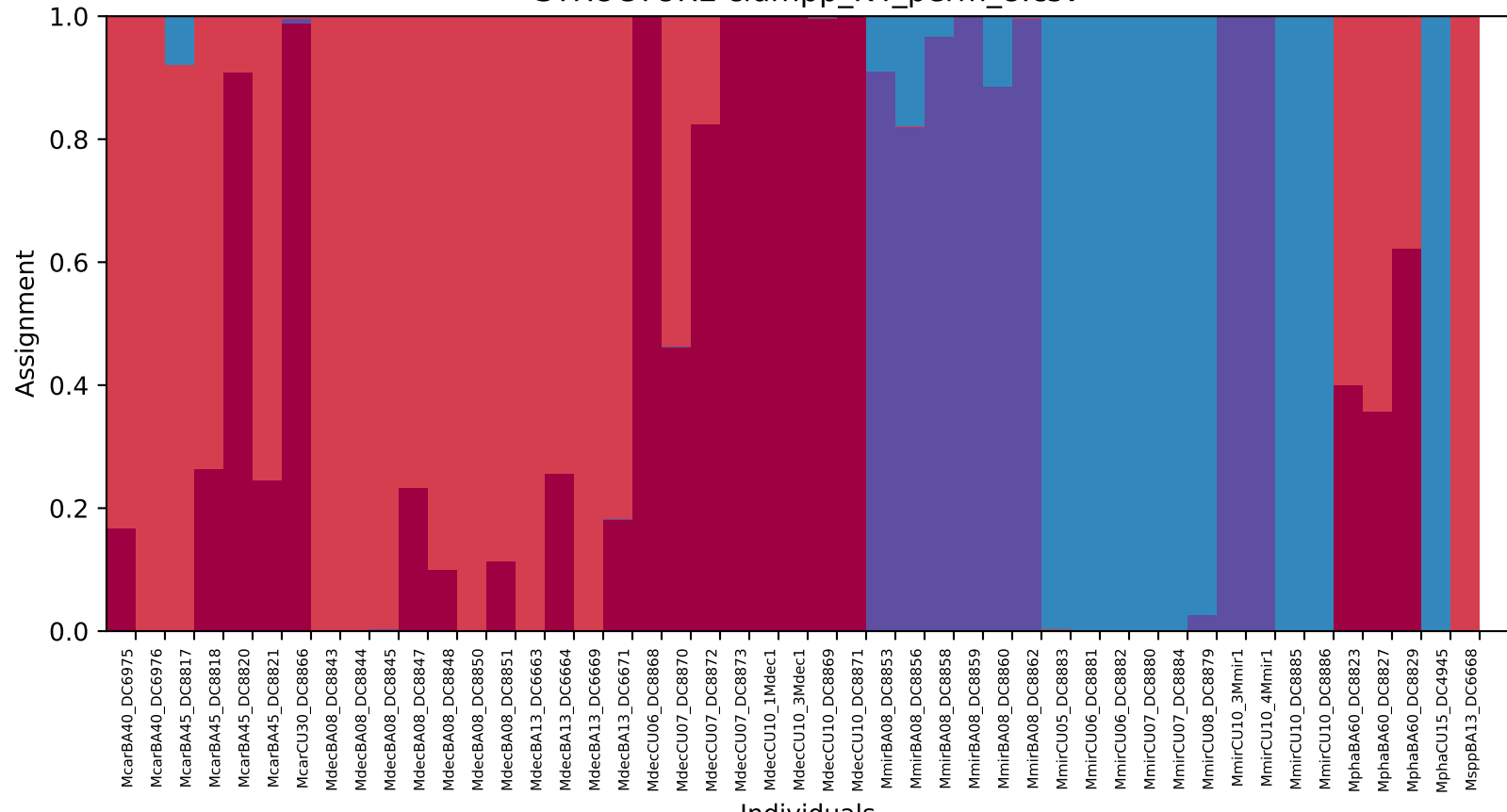
STRUCTURE clump_K4_perm_6.csv



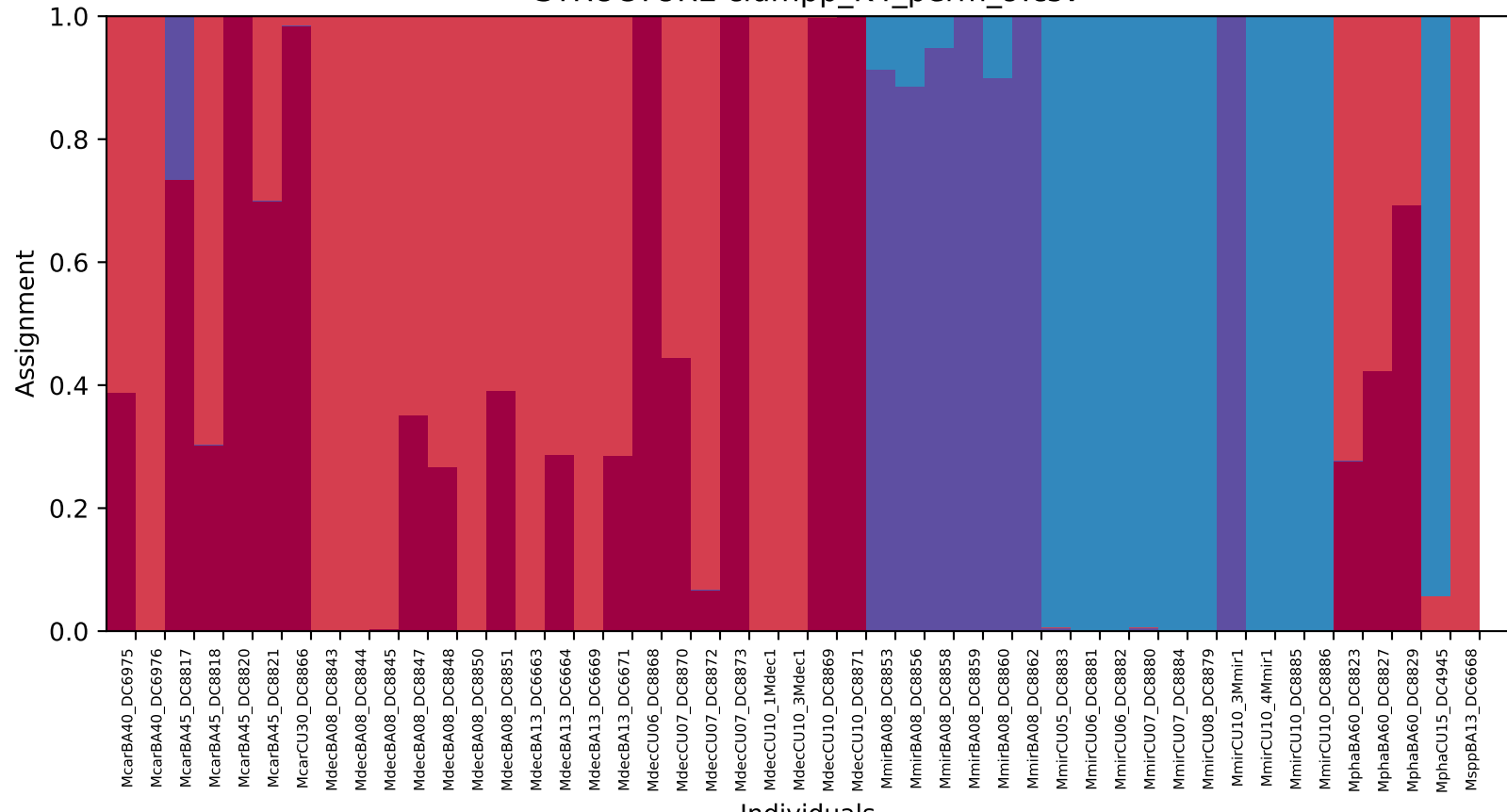
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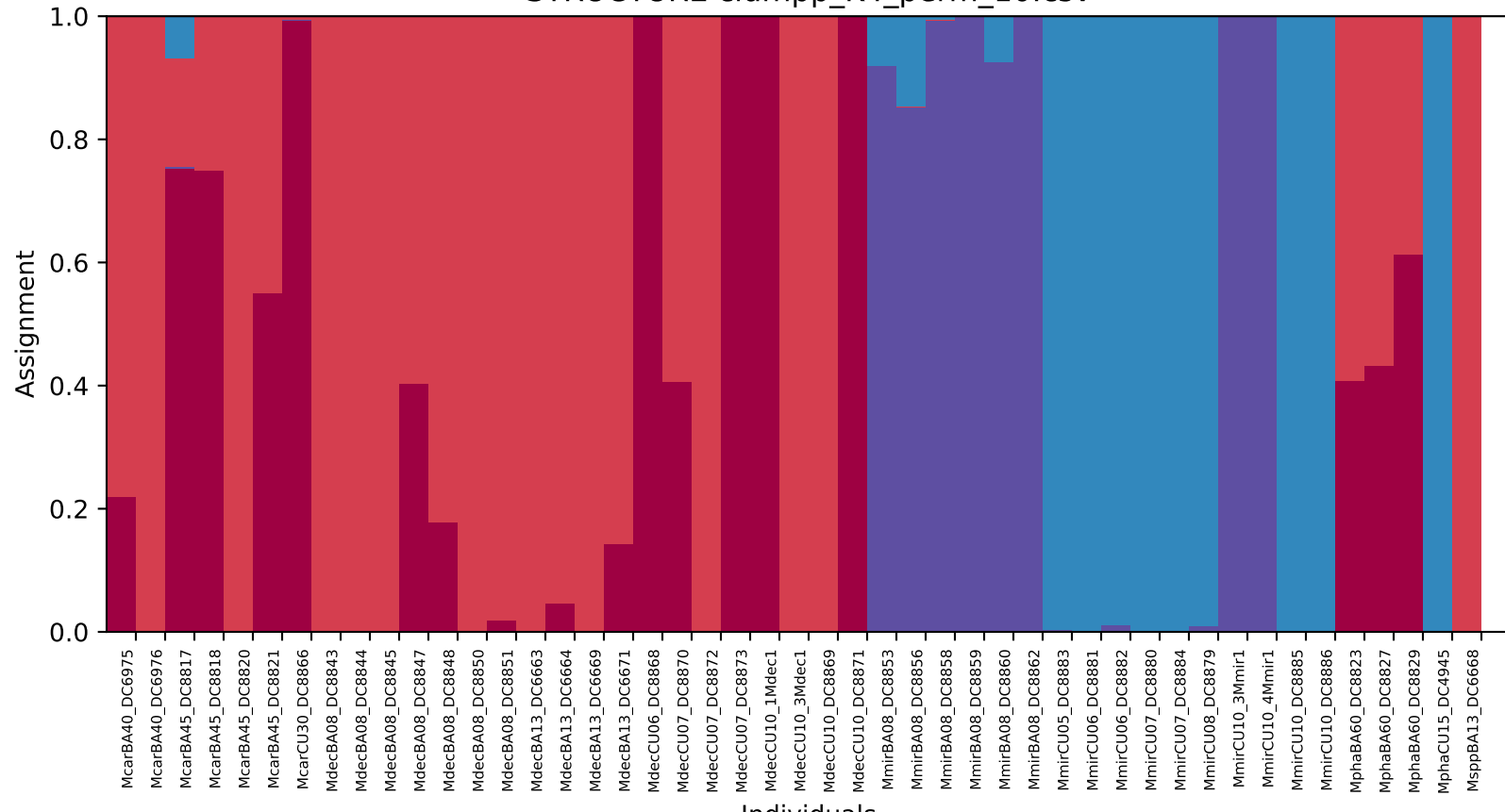
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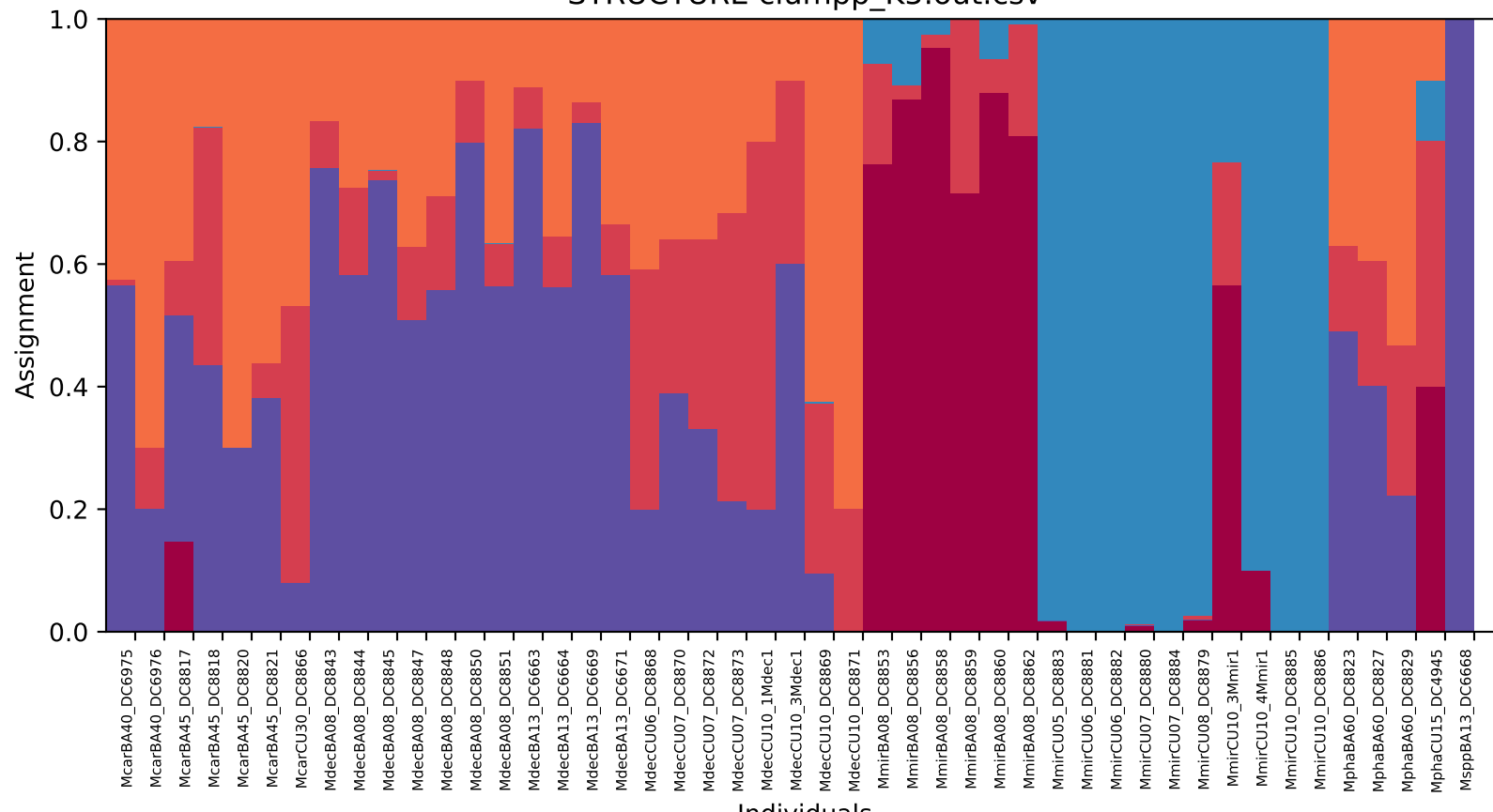
STRUCTURE clumpp_K4_perm_9.csv



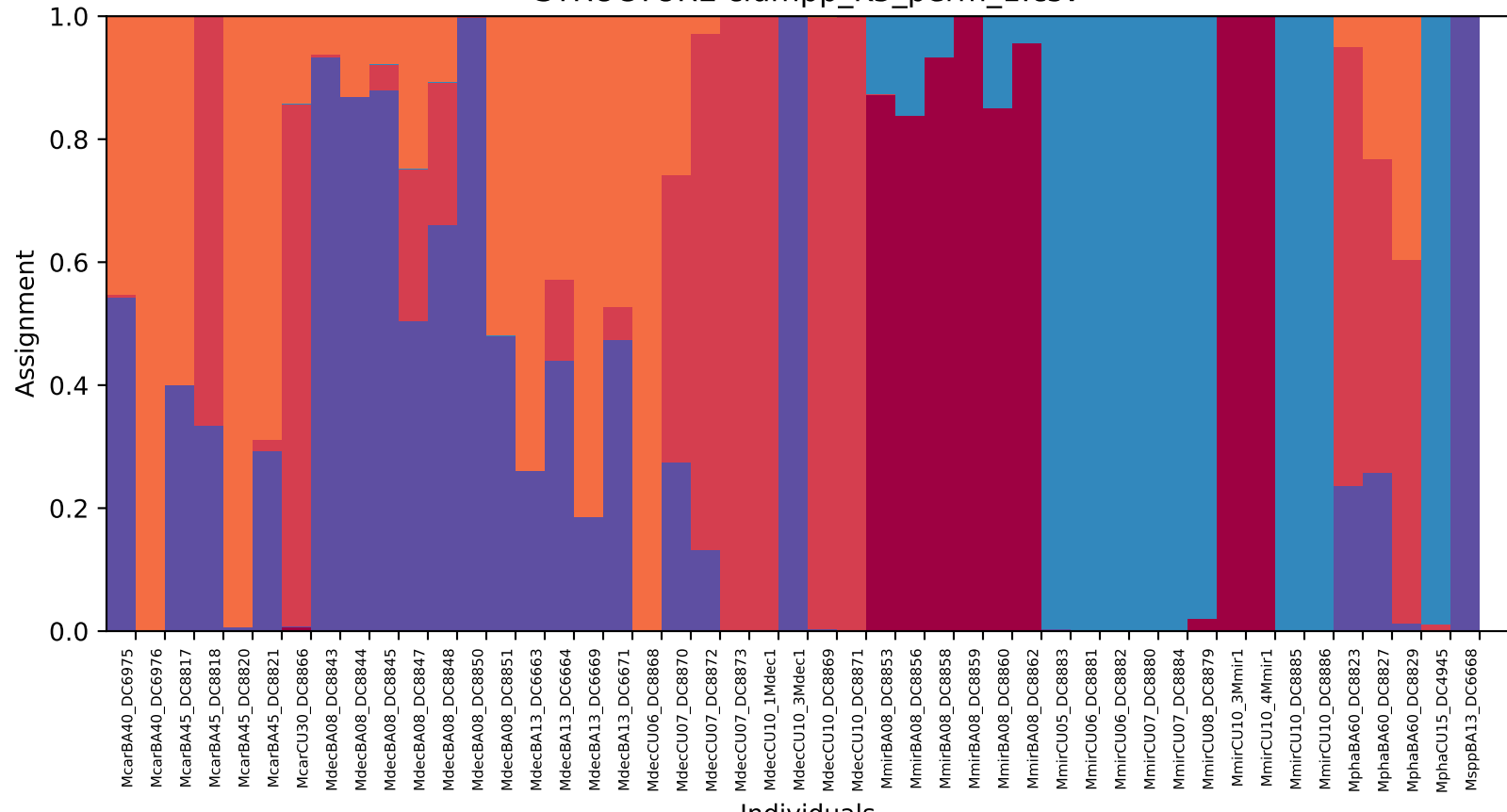
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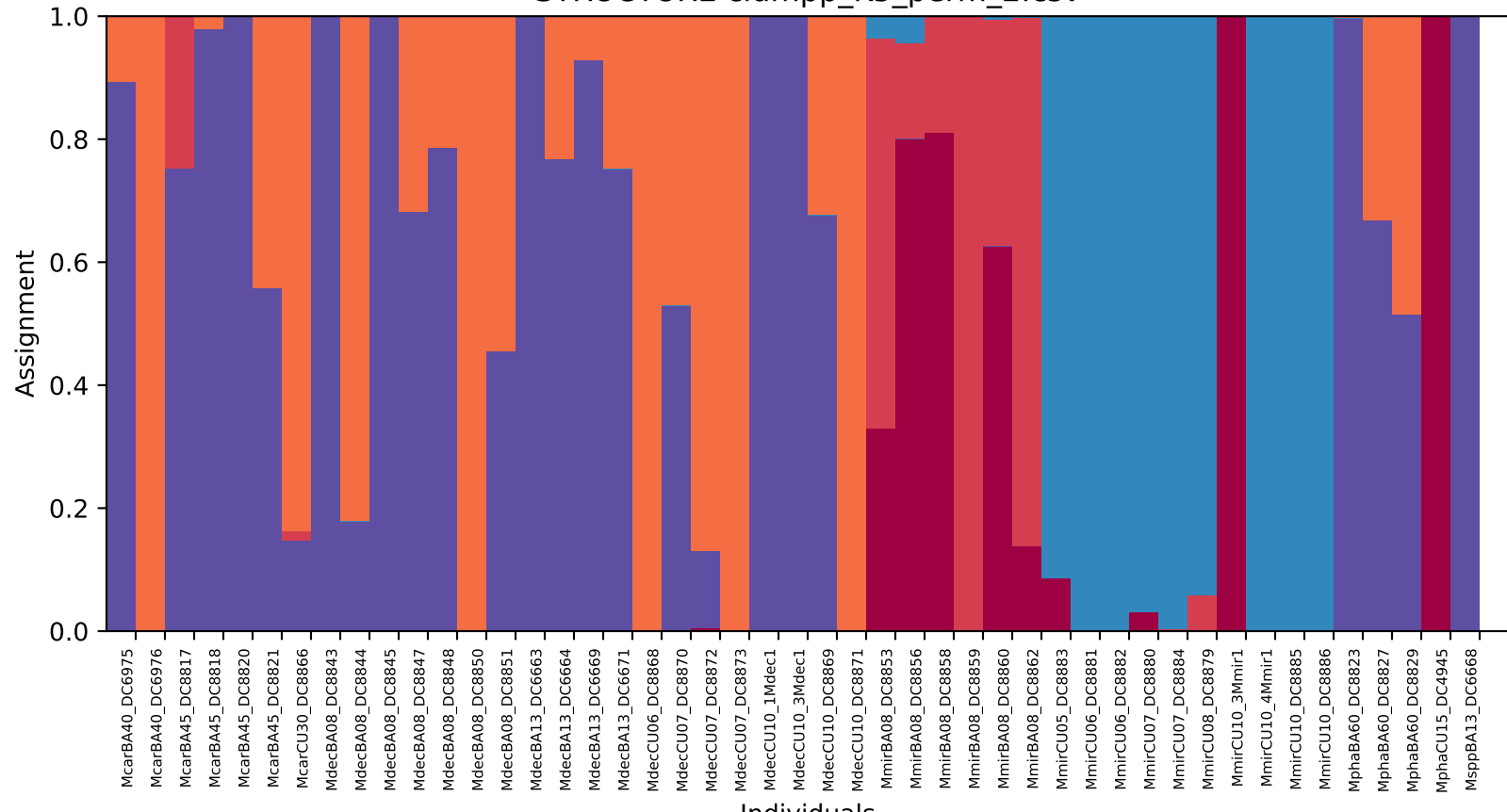
STRUCTURE clump_K5.out.csv



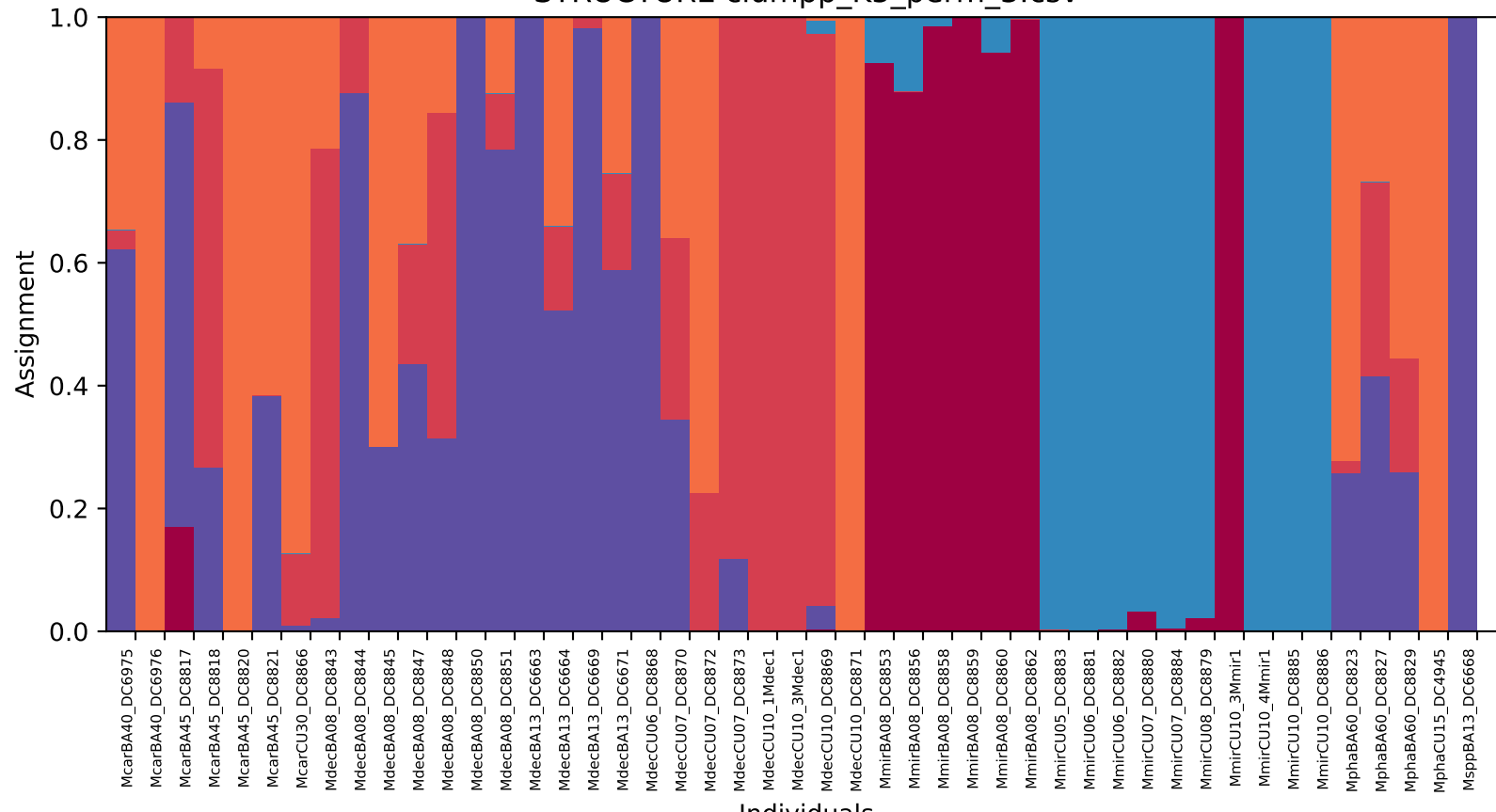
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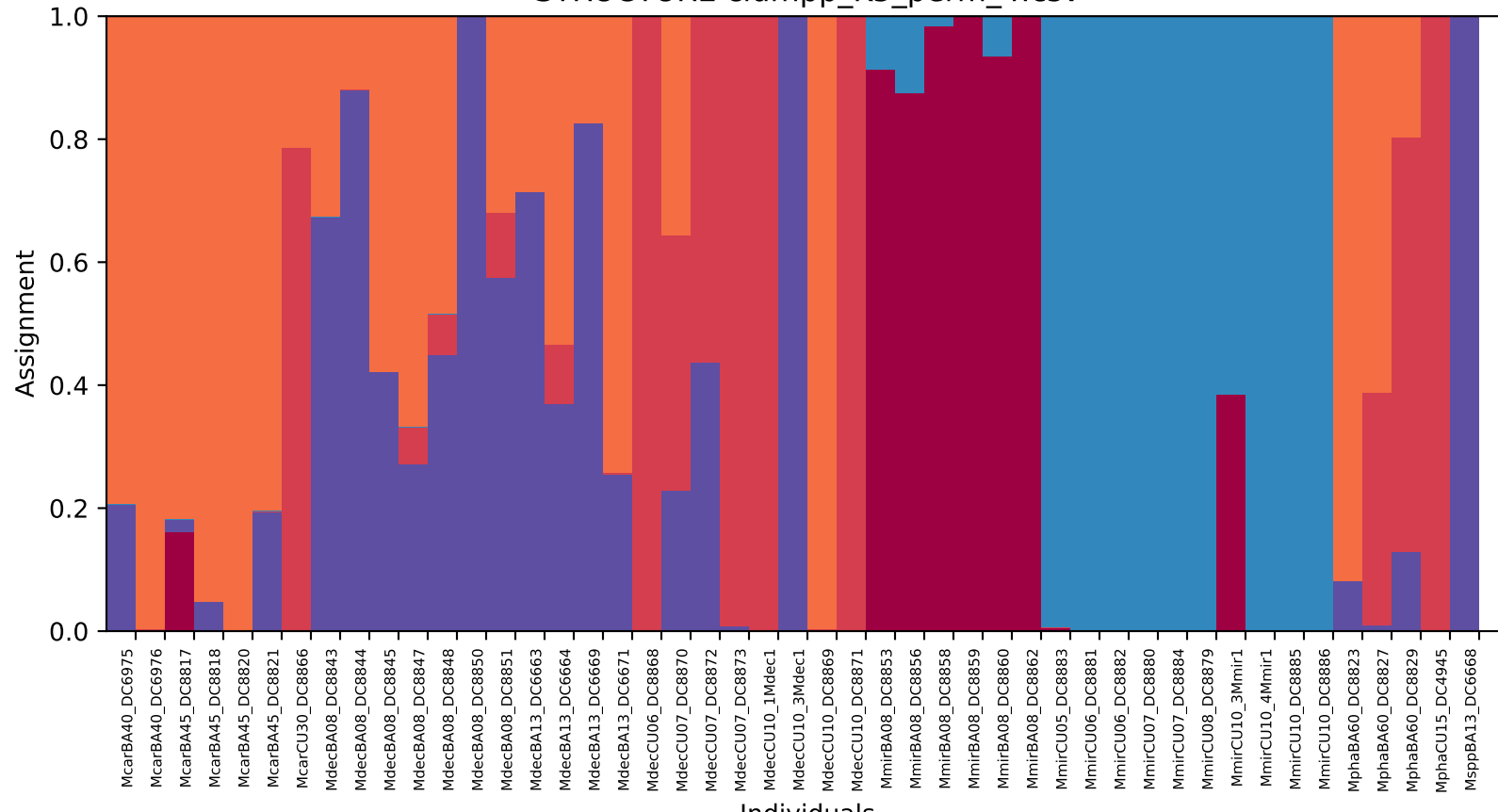
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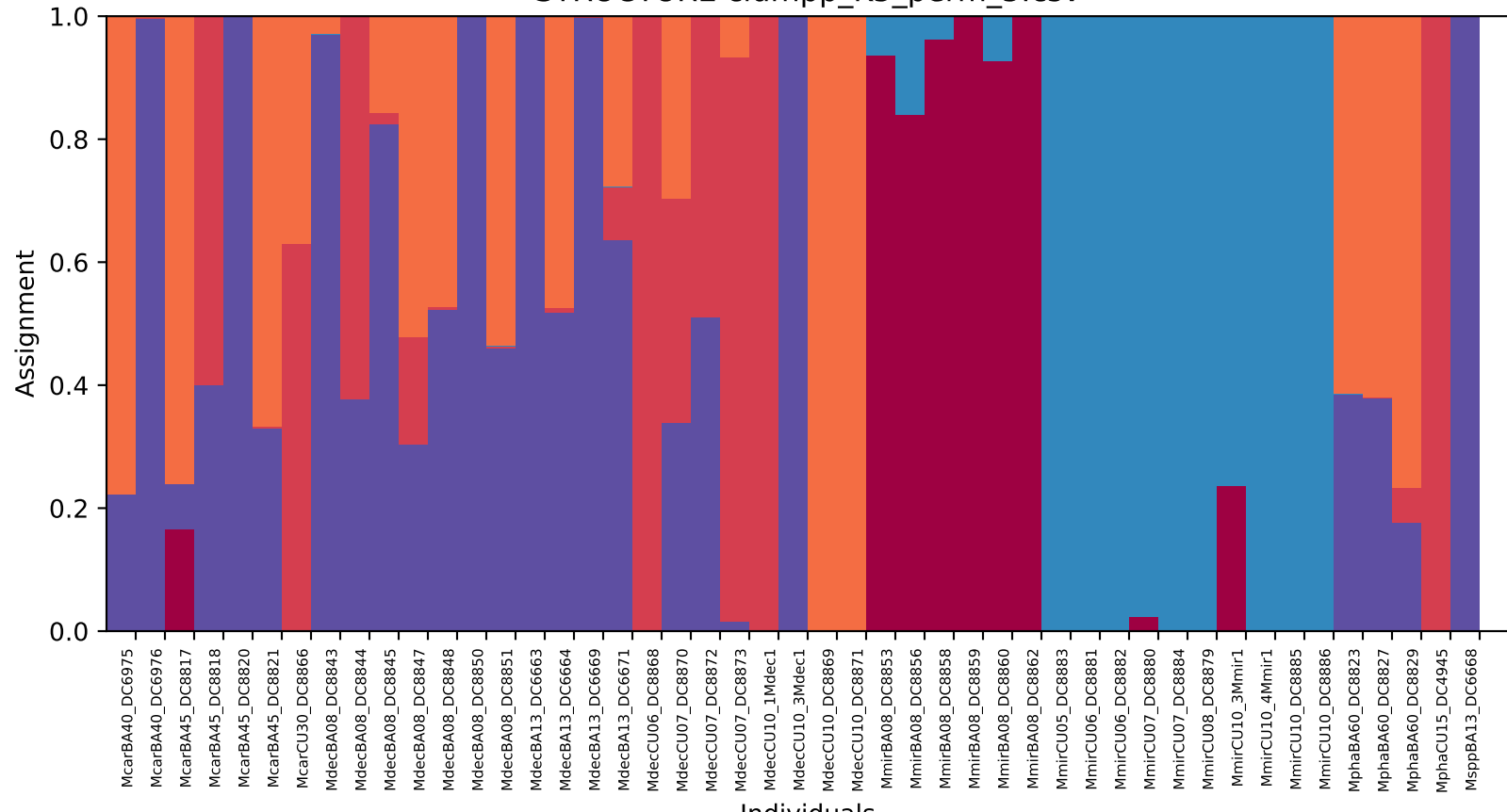
STRUCTURE clump_K5_perm_3.csv



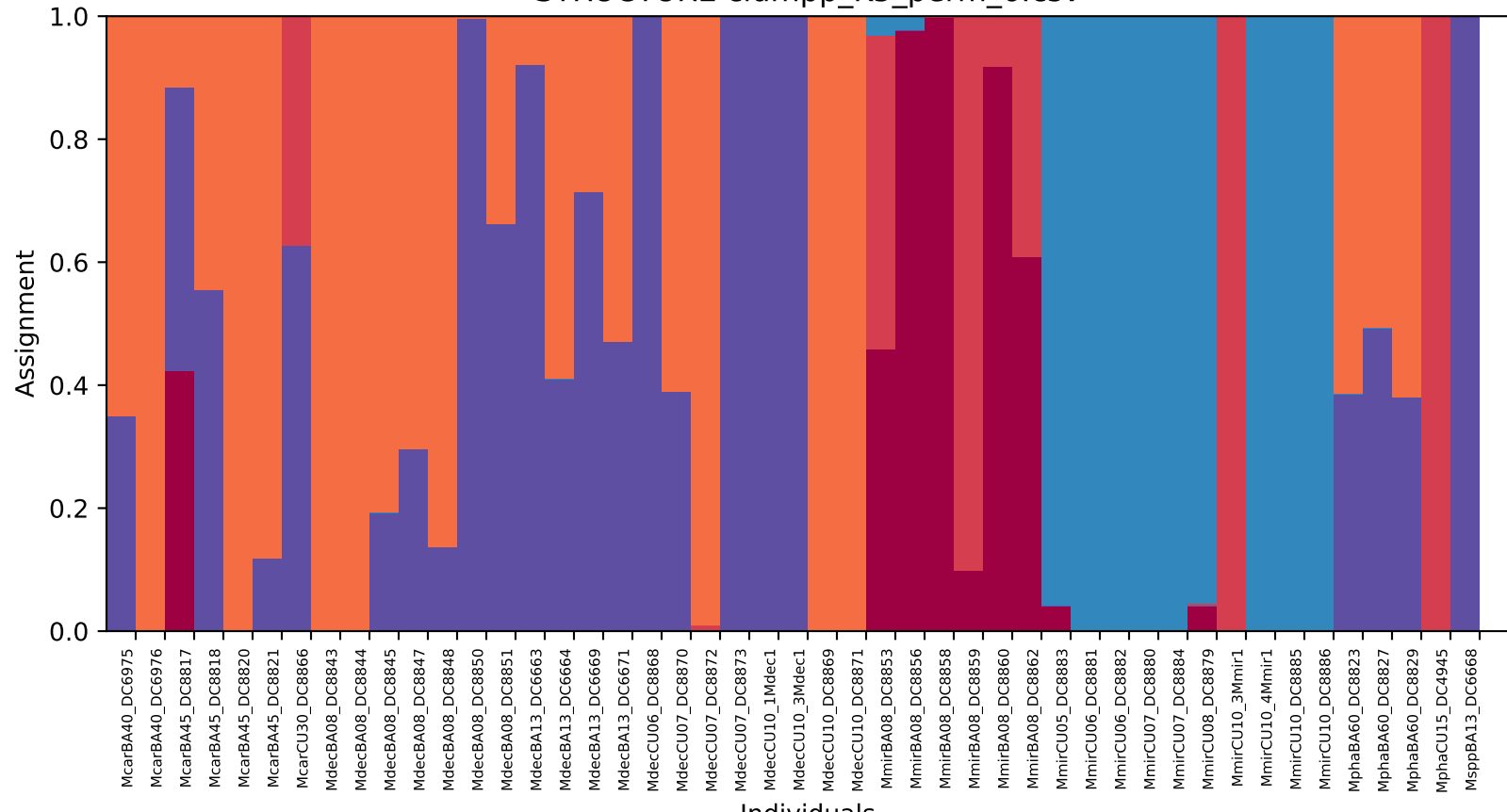
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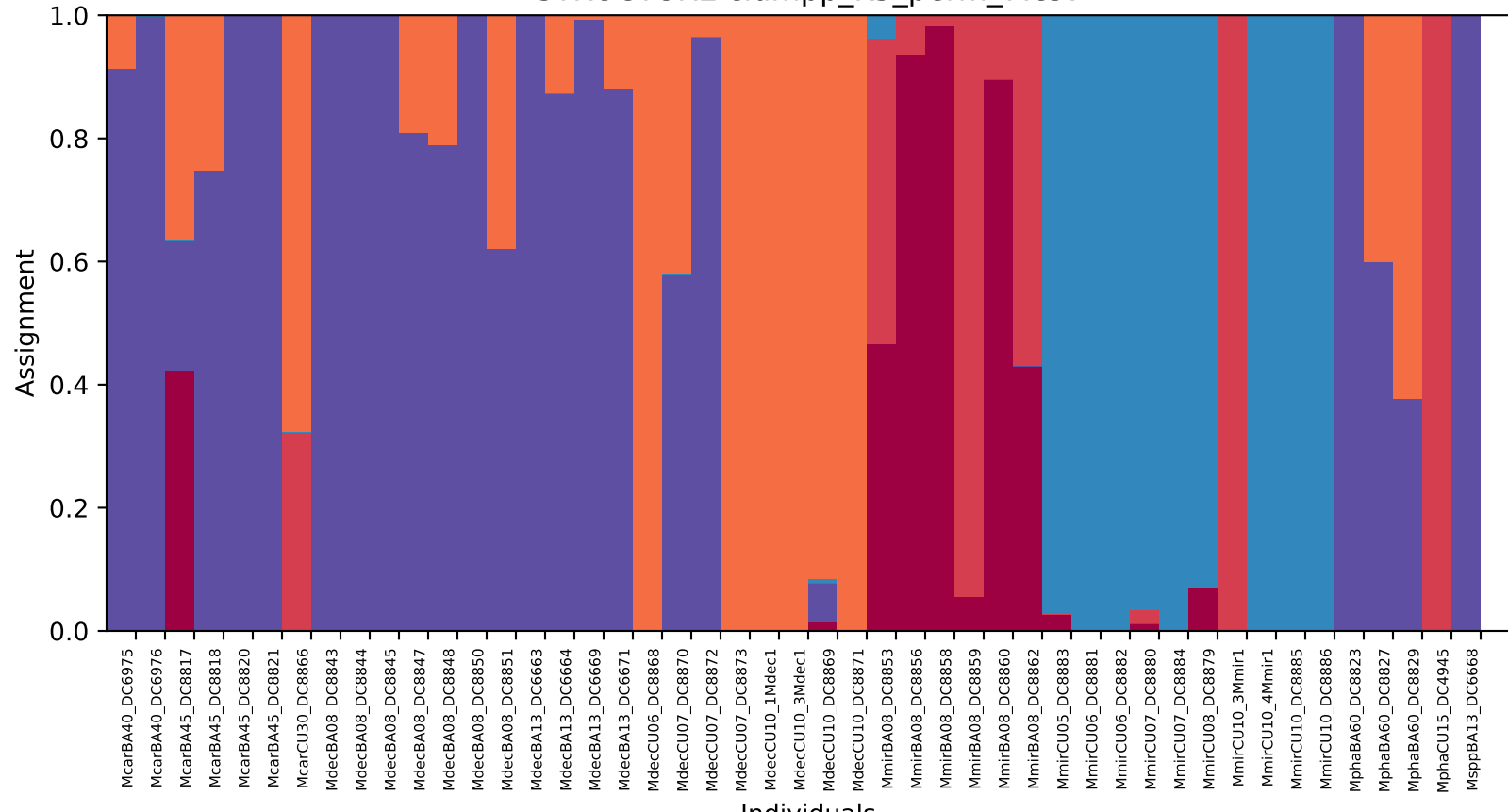
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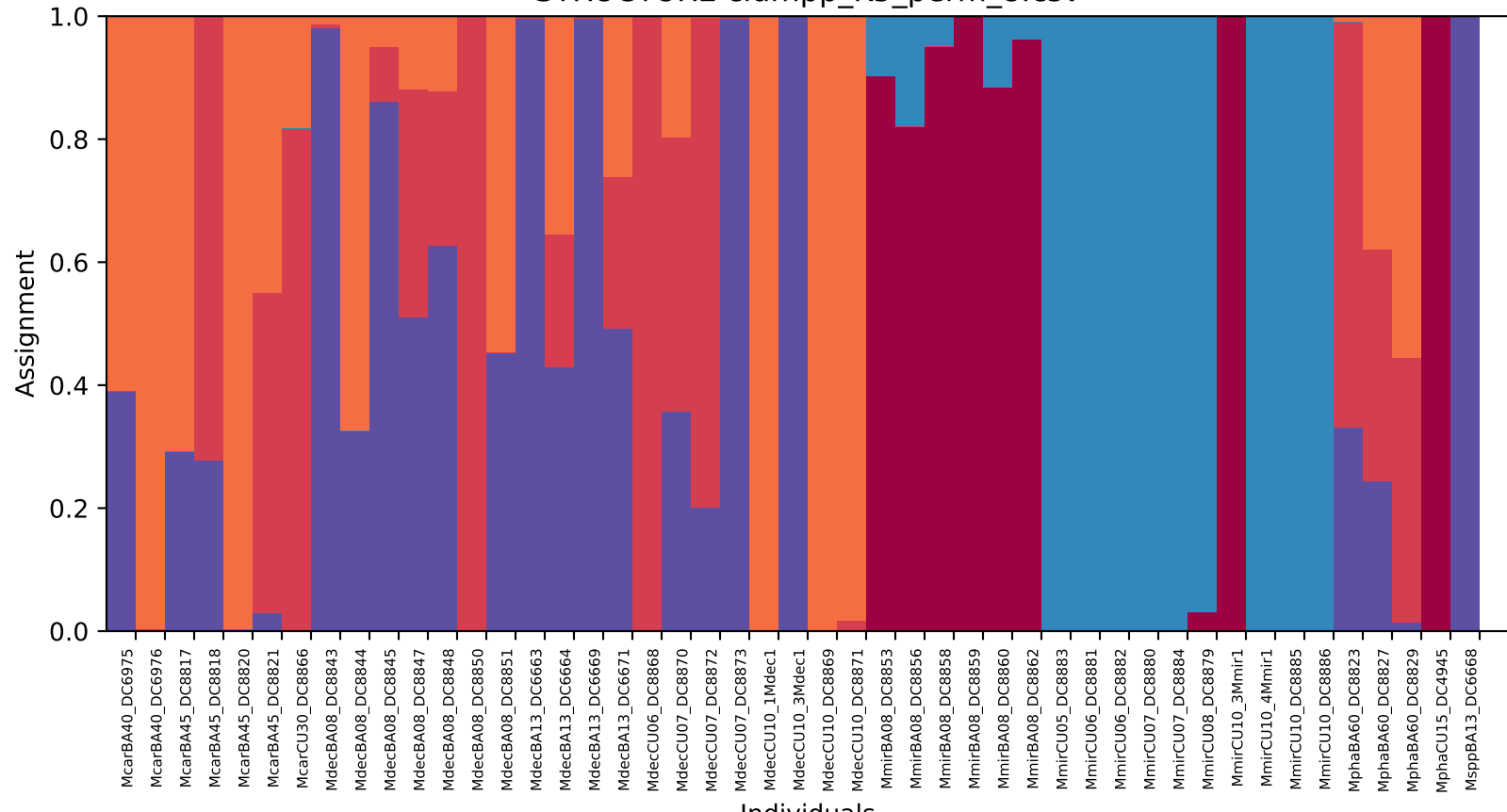
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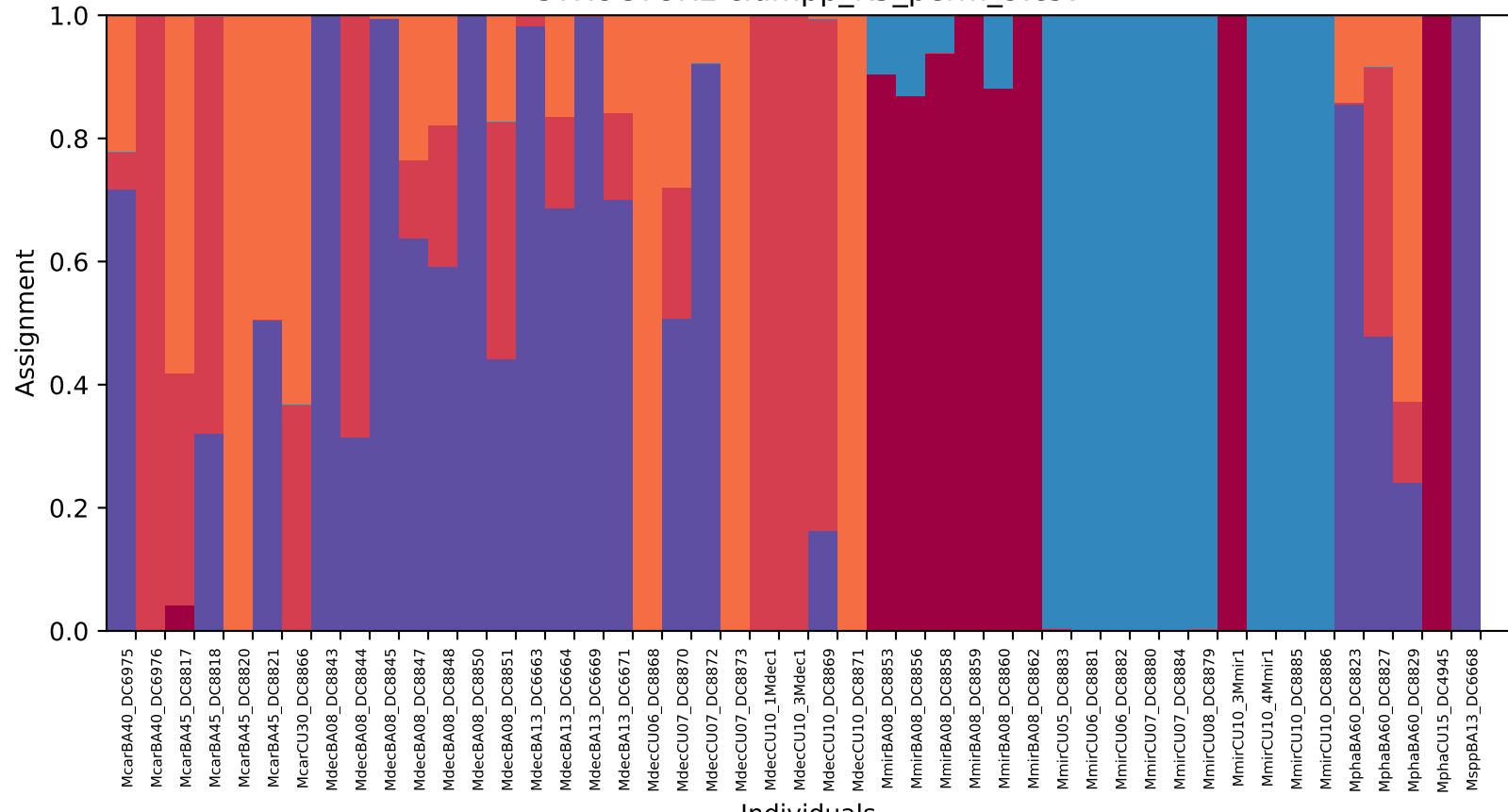
STRUCTURE clump_K5_perm_7.csv



STRUCTURE clumpp_K5_perm_8.csv



STRUCTURE clump_K5_perm_9.csv



STRUCTURE clumpp_K5_perm_10.csv

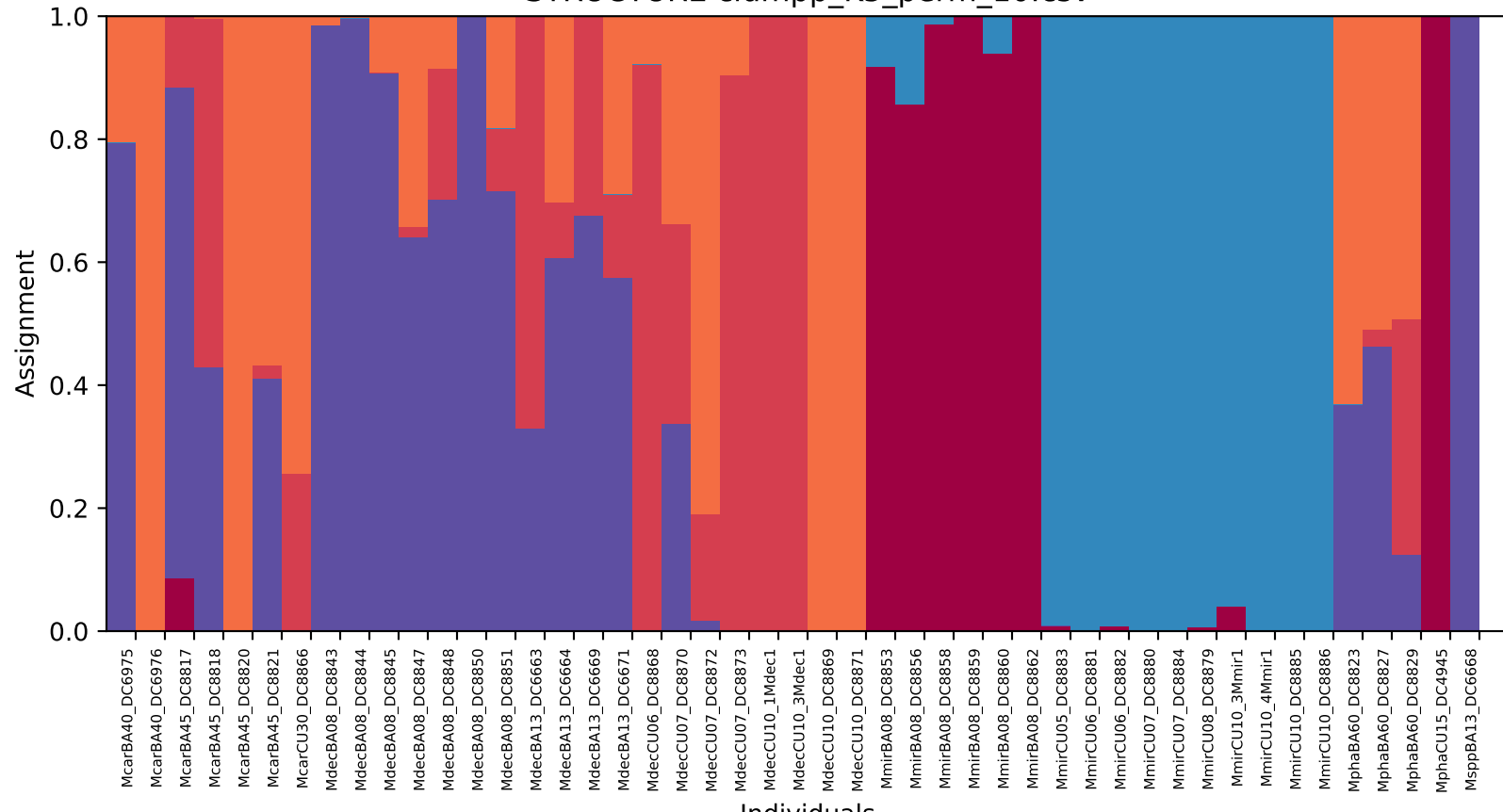


Figure S7a

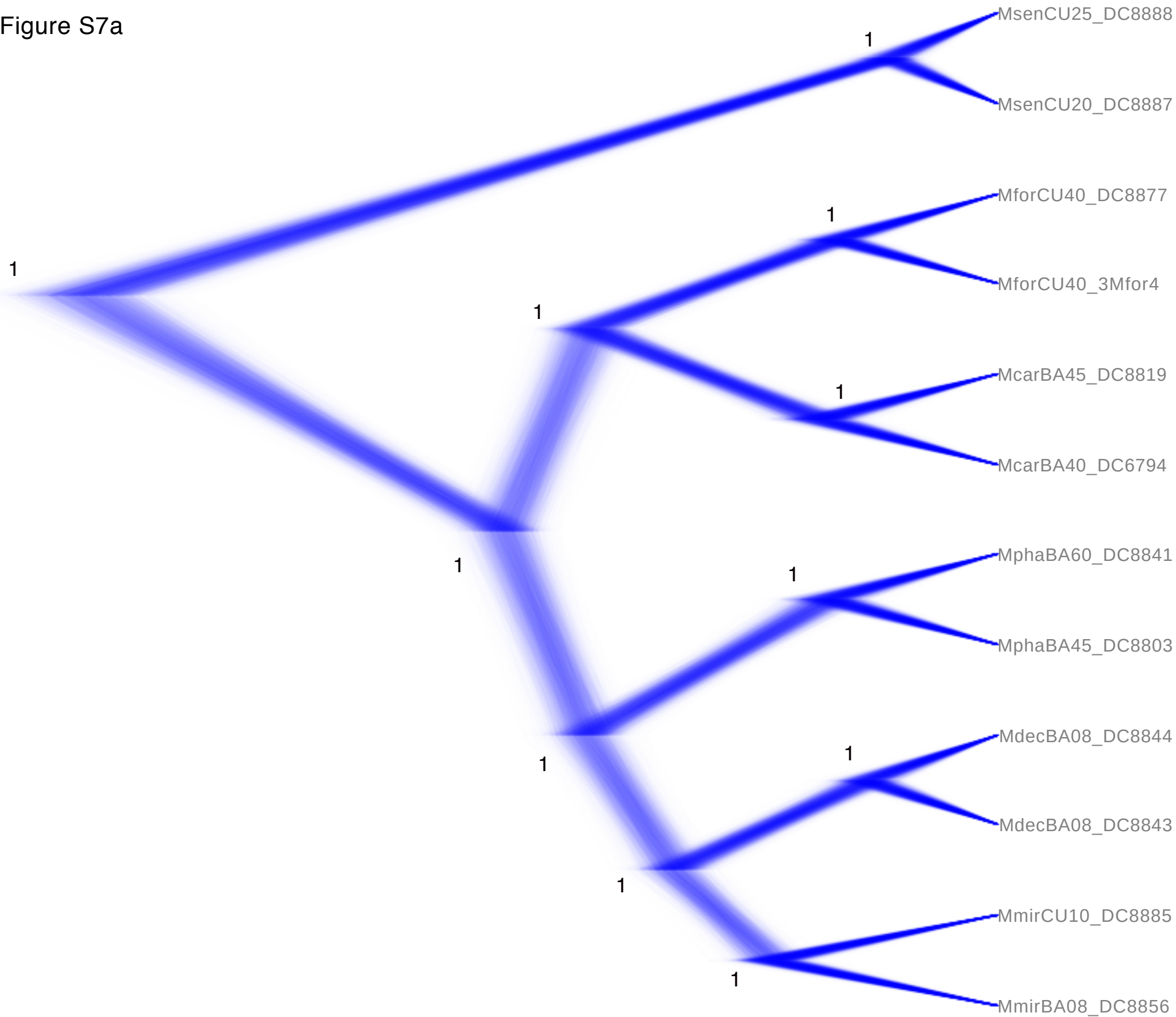


Figure S7b

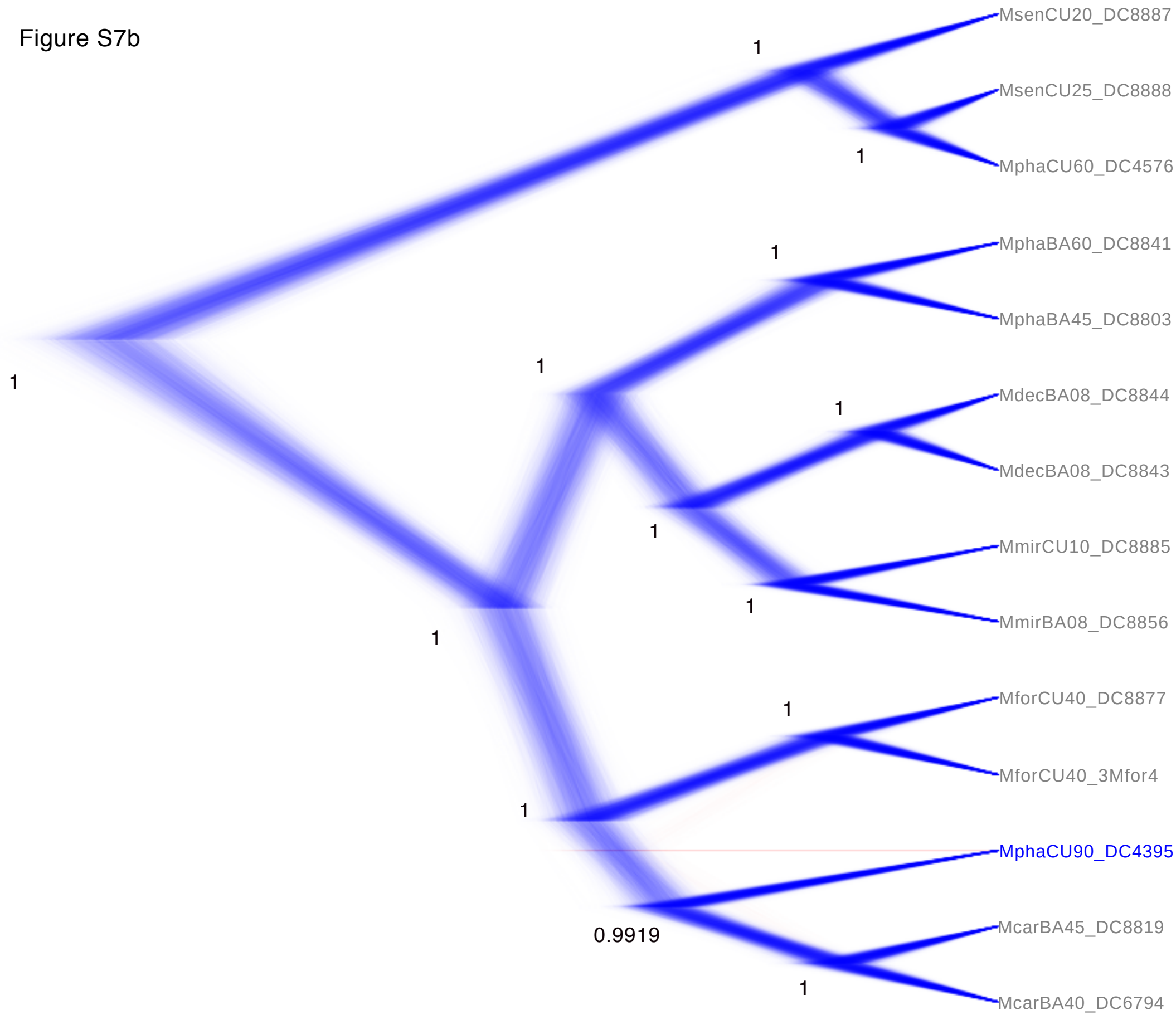


Figure S7c

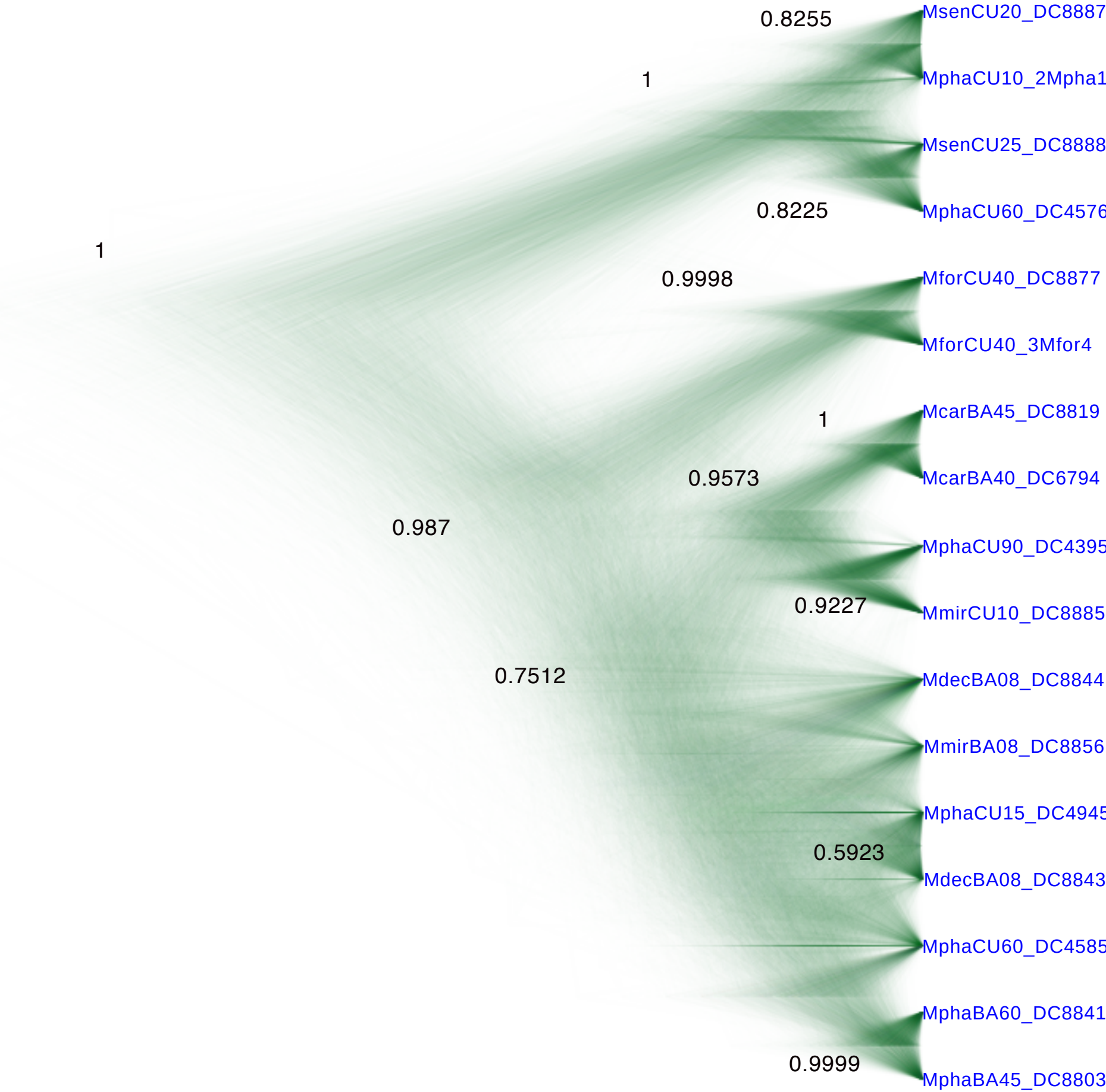


Figure S8

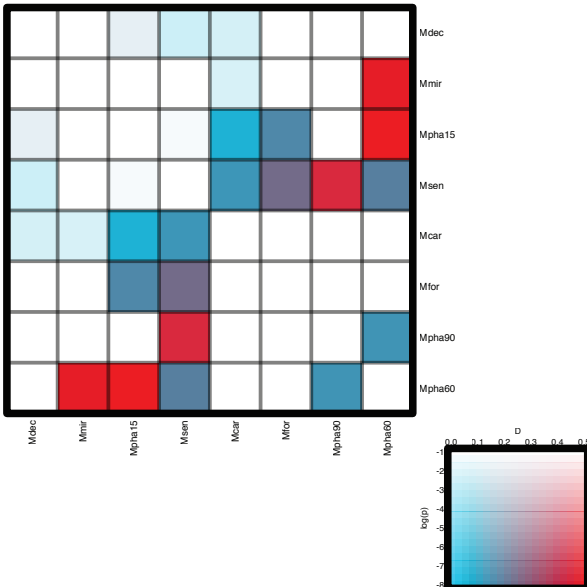
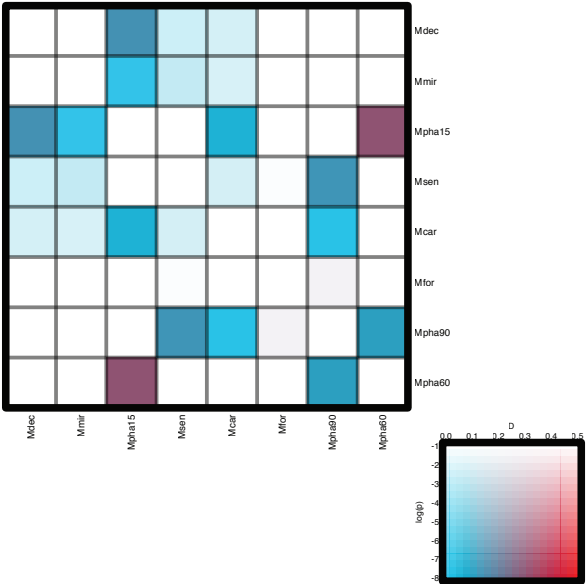
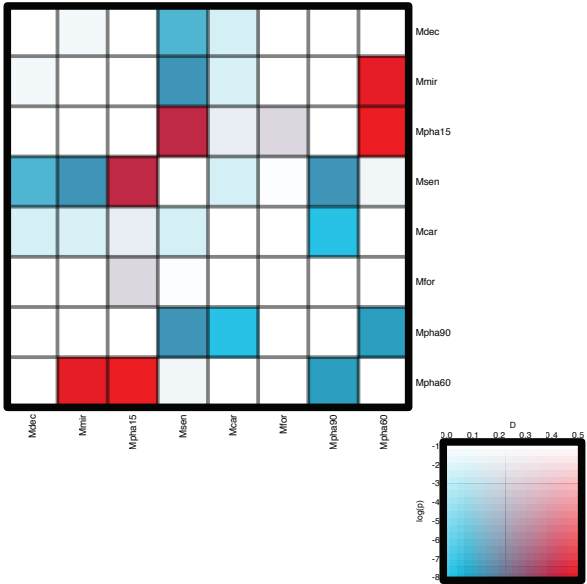


Figure S9



Figure S10

Mcar Mfor Mpha-deep_BA Mpha-shallow Msen
Mdec Mmir Mpha-deep_CU Mpha-very deep

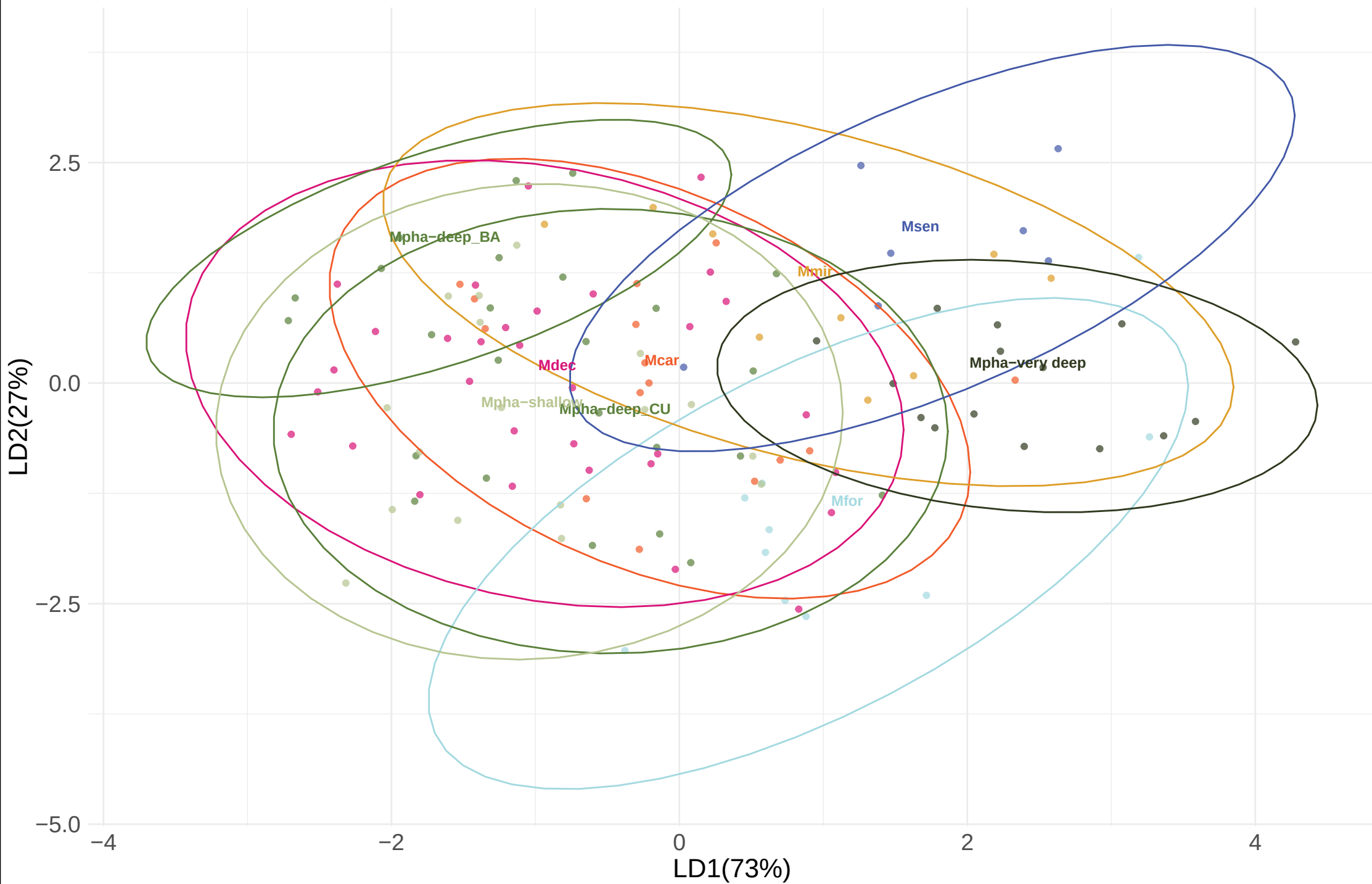
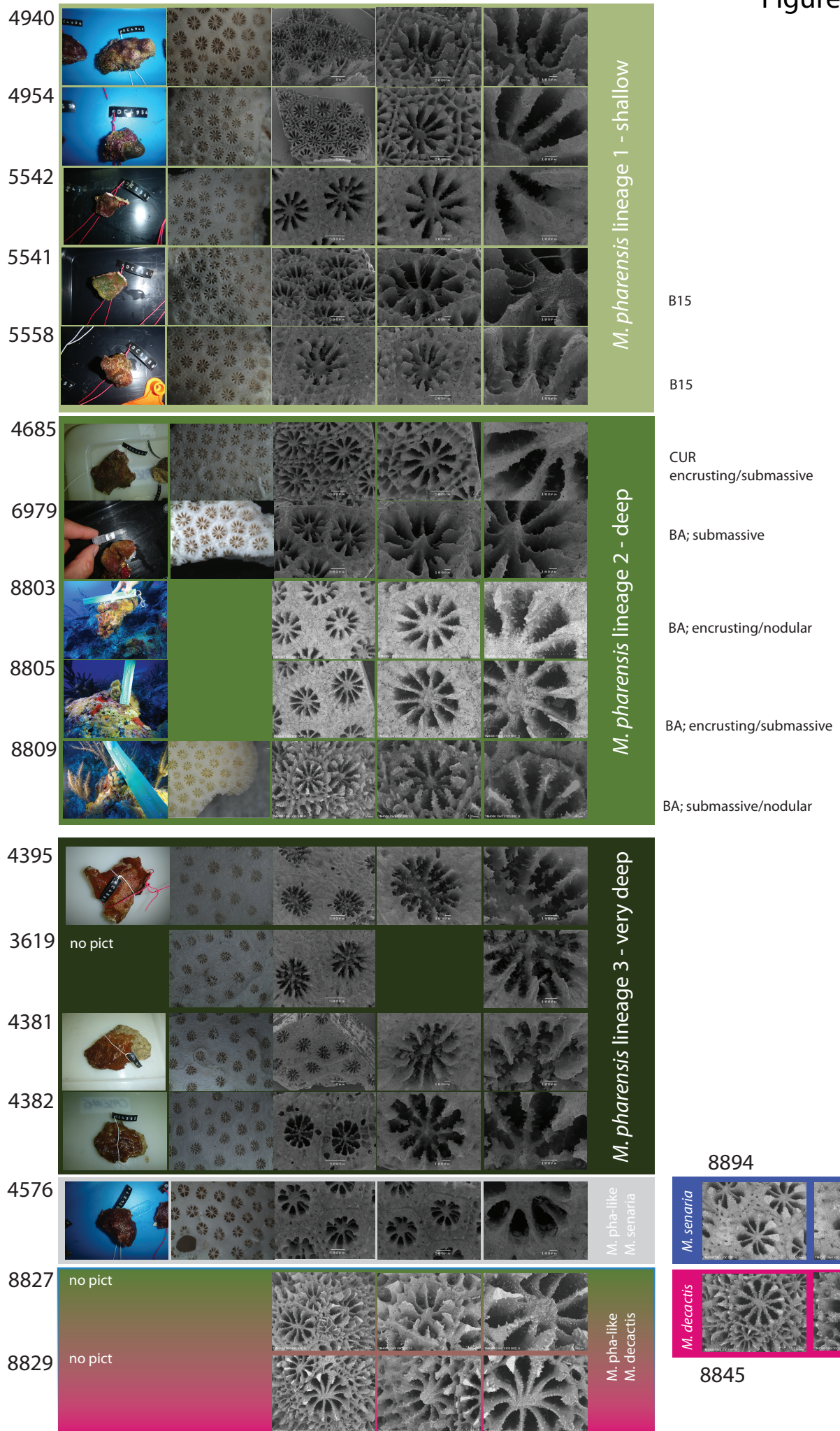
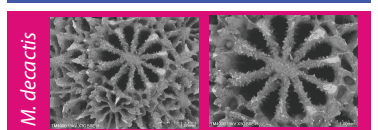
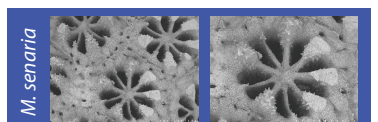


Figure S11a



8894



8845

Figure S11b

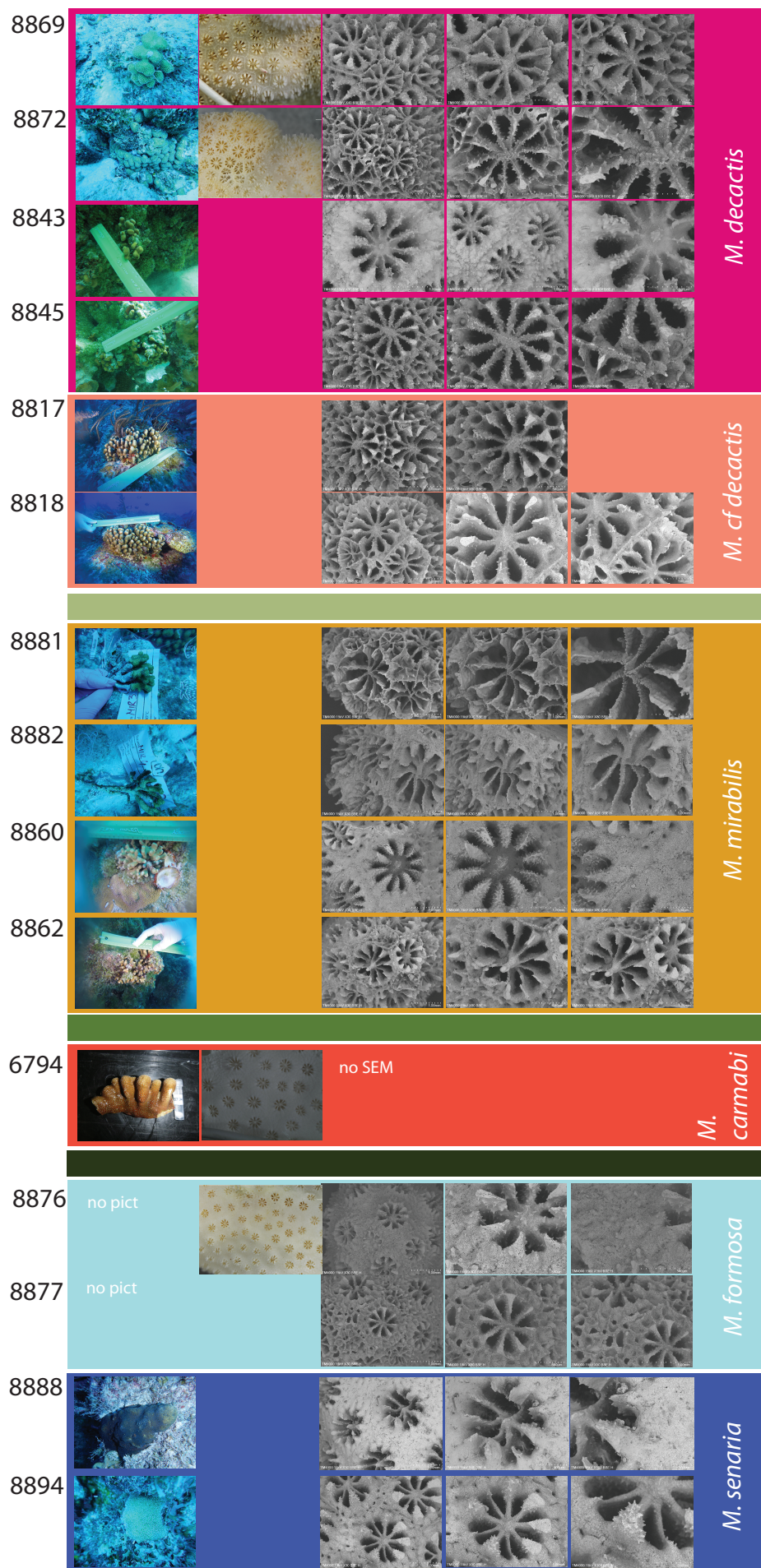


Table S1

Original Sample Name	DC number	Sample Name	Sample Code	Species	Location	Site	Depth group	Depth (m)	Sequence code	Collection date	RADseq ran	RADSeq_obs	ATP8 ran	Field pict	Skeleton available	Museum voucher	Morphometrics	SEM available
DEC1	DC8868	MdecCU06	MdecCU06_DC8868	<i>Madracis decactis</i>	Curacao	Snake Bay	<10	8	MDCKSH8868	24/04/17	YES		NO	YES	YES	NHMMW-ZOO-EV-21529/1	YES	
DEC2	DC8869	MdecCU10	MdecCU10_DC8869	<i>Madracis decactis</i>	Curacao	Snake Bay	<10	9	MDCKSA8869	24/04/17	YES		NO	YES	YES	NHMMW-ZOO-EV-21529/2	YES	YES
DEC3	DC8870	MdecCU07	MdecCU07_DC8870	<i>Madracis decactis</i>	Curacao	Snake Bay	<10	7	MDCKSH8870	24/04/17	YES		NO	YES	YES	NHMMW-ZOO-EV-21529/3	YES	
DEC4	DC8871	MdecCU10	MdecCU10_DC8871	<i>Madracis decactis</i>	Curacao	Snake Bay	<10	10	MDCKSA8871	24/04/17	YES		NO	YES	YES	NHMMW-ZOO-EV-21529/4	YES	
DEC5	DC8872	MdecCU07	MdecCU07_DC8872	<i>Madracis decactis</i>	Curacao	Snake Bay	<10	7	MDCKSH8872	05/06/17	YES		NO	YES	YES	NHMMW-ZOO-EV-21529/5	YES	YES
DEC6	DC8873	MdecCU07	MdecCU07_DC8873	<i>Madracis decactis</i>	Curacao	Snake Bay	<10	7	MDCKSA8873	05/06/17	YES		NO	YES	YES	NHMMW-ZOO-EV-21529/6	YES	
DEC7	DC8874	MdecCU06	MdecCU06_DC8874	<i>Madracis decactis</i>	Curacao	Snake Bay	<10	6	MDCKSA8874	05/06/17	YES		NO	YES	YES	NHMMW-ZOO-EV-21529/7	YES	
DEC8	DC8875	MdecCU07	MdecCU07_DC8875	<i>Madracis decactis</i>	Curacao	Snake Bay	<10	7	MDCKSH8875	05/06/17	YES		NO	YES	YES	NHMMW-ZOO-EV-21529/8	YES	
40160	40160	MsppASXX	MsppASXX_X40160	<i>Madracis</i> sp	Ascension	Ascension					NO		YES	NO	NO		NO	
40161	40161	MsppASXX	MsppASXX_X40161	<i>Madracis</i> sp	Ascension	Ascension					NO		YES	NO	NO		NO	
40162	40162	MsppASXX	MsppASXX_X40162	<i>Madracis</i> sp	Ascension	Ascension					NO		YES	NO	NO		NO	
10Mmir2		MmirCU10b7	MmirCU10_10Mmir	<i>Madracis mirabilis</i>	Curacao	Buoy 1	<10	10	MMCBS10Mm2A		YES		low SNP cov	NO	NO	NO	NO	
1Mcar32		McarCU30	McarCU30_1Mcar3	<i>Madracis carmabi</i>	Curacao	Buoy 1	21-40	32	MCCB1M32A		YES		low SNP cov	NO	NO	NO	NO	
1Mdec10T		MdecCU10b7	MdecCU10_1Mdec1	<i>Madracis decactis</i>	Curacao	Buoy 1	<10	10	MDCBS1Md10A		YES		NO	NO	NO	NO	NO	
1Msen10T		MsenCU10b7	MsenCU10_1Msen1	<i>Madracis senaria</i>	Curacao	Buoy 1	<10	10	MSCBS1Ms10A		YES		NO	NO	NO	NO	NO	
2Mcar32T		McarCU30b7	McarCU30_2Mcar3	<i>Madracis carmabi</i>	Curacao	Buoy 1	21-40	32	MCCB2M32A		YES		NO	NO	NO	NO	NO	
2Mpha10T		MphaCUR10b7	MphaCU10_2Mpha1	<i>Madracis pharensis</i>	Curacao	Buoy 1	<10	10	MPCBS2Mp10A		YES		NO	NO	NO	NO	NO	
3Mcar32T		McarCU30b7	McarCU30_3Mcar3	<i>Madracis carmabi</i>	Curacao	Buoy 1	21-40	32	MCCB3M32A		YES		NO	NO	NO	NO	NO	
3Mdec10T		MdecCU10b7	MdecCU10_3Mdec1	<i>Madracis decactis</i>	Curacao	Buoy 1	<10	10	MDCBS3Md10A		YES		NO	NO	NO	NO	NO	
3Mfor40T		MforCU40b15	MforCU40_3Mfor4	<i>Madracis formosa</i>	Curacao	Buoy 1	<10	40	MFCBD3Mf40A		YES		NO	NO	NO	NO	NO	
3Mmir10		MmirCU10b7	MmirCU10_3Mmir1	<i>Madracis mirabilis</i>	Curacao	Buoy 1	<10	10	MMCBS3Mm10A		YES		NO	NO	NO	NO	NO	
3Mpha10T		MphaCUR10	MphaCU10_3Mpha1	<i>Madracis pharensis</i>	Curacao	Buoy 1	<10	10	MPCBS3Mp10A		YES		low SNP cov	NO	NO	NO	NO	
3Msen10T		MsenCU10b7	MsenCU10_3Msen1	<i>Madracis senaria</i>	Curacao	Buoy 1	<10	10	MSCBS3Ms10A		YES		NO	NO	NO	NO	NO	
4Mdec10T		MdecCU10b7	MdecCU10_4Mdec1	<i>Madracis decactis</i>	Curacao	Buoy 1	<10	10	MDCBS4Md10A		YES		low SNP cov	NO	NO	NO	NO	
4Mmir10T		MmirCU10b7	MmirCU10_4Mmir1	<i>Madracis mirabilis</i>	Curacao	Buoy 1	<10	10	MMCBS4Mm10A		YES		NO	NO	NO	NO	NO	
4Mpha10T		MphaCUR10b7	MphaCU10_4Mpha1	<i>Madracis pharensis</i>	Curacao	Buoy 1	<10	10	MPCBS4Mp10A		YES		NO	NO	NO	NO	NO	
4Msen10T		MsenCU10b7	MsenCU10_4Msen1	<i>Madracis senaria</i>	Curacao	Buoy 1	<10	10	MSCBS4Ms10A		YES		NO	NO	NO	NO	NO	
ArgusMad1	DC8823	MphaBA60	MphaBA60_DC8823	<i>Madracis pharensis</i>	Bermuda	Argus Bank	41-60	60	MPBAXA8823		YES		NO	NO	YES	NHMMW-ZOO-EV-21525/1	NO	
ArgusMad2	DC8824	MphaBA60	MphaBA60_DC8824	<i>Madracis pharensis</i>	Bermuda	Argus Bank	41-60	60	MPBAXA8824		YES		NO	NO	YES	NHMMW-ZOO-EV-21525/2	NO	
ArgusMad5	DC8827	MphaBA60	MphaBA60_DC8827	<i>Madracis pharensis</i>	Bermuda	Argus Bank	41-60	60	MPBAXA8827		YES		NO	NO	YES	NHMMW-ZOO-EV-21525/5	NO	YES
ArgusMad7	DC8829	MphaBA60	MphaBA60_DC8829	<i>Madracis pharensis</i>	Bermuda	Argus Bank	41-60	60	MPBAXA8829		YES		NO	NO	YES	NHMMW-ZOO-EV-21525/7	NO	YES
CAR1	DC8863	McarCU30	McarCU30_DC8863	<i>Madracis carmabi</i>	Curacao	Snake Bay	21-40	29	MCCKMA8863	05/06/17	YES		NO	YES	YES	NHMMW-ZOO-EV-21531/1	YES	
CAR2	DC8864	McarCU30	McarCU30_DC8864	<i>Madracis carmabi</i>	Curacao	Snake Bay	21-40	28	MCCKMA8864	05/06/17	YES		NO	YES	YES	NHMMW-ZOO-EV-21531/2	YES	
CAR3	DC8865	McarCU30	McarCU30_DC8865	<i>Madracis carmabi</i>	Curacao	Snake Bay	21-40	28	MCCKMA8865	05/06/17	YES		NO	YES	YES	NHMMW-ZOO-EV-21531/3	YES	
CAR4	DC8866	McarCU30	MdecCU30_DC8866	<i>Madracis decactis</i>	Curacao	Buoy 0	21-40	30	MCCKMA8866	28/06/17	YES		NO	YES	YES	NHMMW-ZOO-EV-21531/4	YES	
CAR5	DC8867	McarCU30	McarCU30_DC8867	<i>Madracis carmabi</i>	Curacao	Snake Bay	21-40	32	MCCKMA8867	01/07/17	YES		NO	YES	YES	NHMMW-ZOO-EV-21531/5	YES	
DC3618	DC3618	MphaCU90B15	MphaCU90_DC3618	<i>Madracis pharensis</i>	Curacao	Seaquarium	>60	88	MPCSXA3618	15/03/13	YES		YES (low quality se	NO	YES	Cal Academy	YES	
DC3619	DC3619	MphaCU90B15	MphaCU90_DC3619	<i>Madracis pharensis</i>	Curacao	Seaquarium	90m	90		15/03/13	NO		YES	NO	YES	Cal Academy	YES	YES
DC3622	DC3622	MphaCU90B15	MphaCU90_DC3622	<i>Madracis pharensis</i>	Curacao	Seaquarium	90m	86		15/03/13	NO		YES	NO	YES	Cal Academy	YES	
DC3629	DC3629	MphaCU60	MphaCU60_DC3629	<i>Madracis pharensis</i>	Curacao	Buoy 1		60			NO		YES	YES	NO		NO	
DC3674	DC3674	MphaCU60B15	MphaCU60_DC3674	<i>Madracis pharensis</i>	Curacao	Buoy 1	60m	60		18/03/13	NO		YES	YES	NO		NO	
DC3688	DC3688	MphaCU60B15	MphaCU60_DC3688	<i>Madracis pharensis</i>	Curacao	Buoy 1	60m	60		19/03/13	NO		YES	YES	YES	Cal Academy	YES	
DC3689	DC3689	MphaCU60B15	MphaCU60_DC3689	<i>Madracis pharensis</i>	Curacao	Buoy 1	60m	60		19/03/13	NO		YES	YES	YES	Cal Academy	YES	
DC4262	DC4262	MphaCU15	MphaCU15_DC4262	<i>Madracis pharensis</i>	Curacao	East Point		15			NO		YES	YES	NO		NO	
DC4380	DC4380	MphaCU80	MphaCU80_DC4380	<i>Madracis pharensis</i>	Curacao	Seaquarium	>60	80	MPCSXA4380		YES		NO	YES	YES	Cal Academy	NO	
DC4381T	DC4381	MphaCU80B15	MphaCU80_DC4381	<i>Madracis pharensis</i>	Curacao	Seaquarium	>60	81	MPCSXA4381A	27/03/13	YES		low SNP cov	YES	YES	Cal Academy	YES	YES
DC4382	DC4382	MphaCU80B15	MphaCU80_DC4382	<i>Madracis pharensis</i>	Curacao	Seaquarium	80m	80		27/03/13	NO		YES	YES	YES	Cal Academy	YES	YES
DC4383T	DC4383	MphaCU80	MphaCU80_DC4383	<i>Madracis pharensis</i>	Curacao	Seaquarium	>60	80	MPCSXA4383A	27/03/13	YES		low SNP cov	NO	YES	Cal Academy	YES	
DC4384	DC4384	MphaCU80	MphaCU80_DC4384	<i>Madracis pharensis</i>	Curacao	Seaquarium	>60	80	MPCSXA4384		YES		NO	YES	YES	Cal Academy	NO	
DC4388	DC4388	MphaCU90B15	MphaCU90_DC4388	<i>Madracis pharensis</i>	Curacao	Seaquarium	90m	86		27/03/13	NO		YES	YES	YES	Cal Academy	YES	
DC4389	DC4389	MphaCU90B15	MphaCU90_DC4389	<i>Madracis pharensis</i>	Curacao	Seaquarium	80m	84		27/03/13	NO		YES	YES	YES	Cal Academy	YES	
DC4391	DC4391	MphaCU90B15	MphaCU90_DC4391	<i>Madracis pharensis</i>	Curacao	Seaquarium	80m	82		27/03/13	NO		YES	YES	YES	Cal Academy	YES	
DC4393	DC4393	MphaCU90B15	MphaCU90_DC4393	<i>Madracis pharensis</i>	Curacao	Seaquarium	80m	83		27/03/13	NO		YES	YES	YES	Cal Academy	YES	
DC4395T	DC4395	MphaCU90B15	MphaCU90_DC4395	<i>Madracis pharensis</i>	Curacao	Seaquarium	>60	86	MPCSXA4395A	27/03/13	YES		YES (but find no se	YES	YES	Cal Academy	YES	YES
DC4396	DC4396	MphaCU90B15	MphaCU90_DC4396	<i>Madracis pharensis</i>	Curacao	Seaquarium	90m	87		27/03/13	NO		YES	YES	YES	Cal Academy	YES	
DC4397	DC4397	MphaCU90B15	MphaCU90_DC4397	<i>Madracis pharensis</i>	Curacao	Seaquarium	90m	86		27/03/13	NO		YES	YES	YES	Cal Academy	YES	
DC4399	DC4399	MphaCU90B15	MphaCU90_DC4399	<i>Madracis pharensis</i>	Curacao	Seaquarium	90m	87		27/03/13	NO		YES	YES	YES	Cal Academy	YES	
DC4402	DC4402	MphaCU90B15	MphaCU90_DC4402	<i>Madracis pharensis</i>	Curacao	Seaquarium	80m	83		27/03/13	NO		YES	YES	YES	Cal Academy	YES	
DC4574	DC4574	MphaCU60B15	MphaCU60_DC4574	<i>Madracis pharensis</i>	Curacao	Seaquarium	60m	60		29/03/13	NO		YES (but find no se	YES	YES	Cal Academy	YES	
DC4575	DC4575	MphaCU60B15	MphaCU60_DC4575	<i>Madracis pharensis</i>	Curacao	Seaquarium	60m	60		29/03/13	NO		YES (but find no se	YES	YES	Cal Academy	YES	
DC4576	DC4576	MphaCU60b7	MphaCU60_DC4576	<i>Madracis pharensis</i>	Curacao	Seaquarium	41-60	60	MPCSXA4576A	29/03/13	YES		YES (but find no se	YES	YES	Cal Academy	YES	YES
DC4584	DC4584	MphaCU60B15	MphaCU60_DC4584	<i>Madracis pharensis</i>	Curacao	Seaquarium	60m	60		29/03/13	NO		YES	YES	YES	Cal Academy	YES	

DC4585T	DC4585	MphaCU60b15	MphaCU60_DC4585	<i>Madracis pharensis</i>	Curacao	Seaquarium	41-60	60	MPCSX4585A	29/03/13	YES	NO	YES	NO		NO
DC4586	DC4586	MphaCU60B15	MphaCU60_DC4586	<i>Madracis pharensis</i>	Curacao	Seaquarium	60m	60		29/03/13	NO	YES	YES	NO		NO
DC4620T	DC4620	MphaCU60	MphaCU60_DC4620	<i>Madracis pharensis</i>	Curacao	Seaquarium	41-60	60	MPCSX4620A	29/03/13	YES	low SNP cov	NO	YES	YES	Cal Academy
DC4627	DC4627	MphaCU60	MphaCU60_DC4627	<i>Madracis pharensis</i>	Curacao	Seaquarium		60				NO	YES	YES	NO	NO
DC4647	DC4647	MphaCU50	MphaCU50_DC4647	<i>Madracis pharensis</i>	Curacao	Seaquarium	41-60	50	MPCSDA4647		YES	NO	YES	YES	Cal Academy	NO
DC4649	DC4649	MphaCU50	MphaCU50_DC4649	<i>Madracis pharensis</i>	Curacao	Seaquarium	41-60	50	MPCSDA4649		YES	NO	YES	YES	Cal Academy	NO
DC4651	DC4651	MphaCU50	MphaCU50_DC4651	<i>Madracis pharensis</i>	Curacao	Seaquarium	41-60	50	MPCSDA4651		YES	NO	YES	YES	Cal Academy	NO
DC4652	DC4652	MphaCU50	MphaCU50_DC4652	<i>Madracis pharensis</i>	Curacao	Seaquarium	41-60	50	MPCSDA4652		YES	NO	YES	YES	Cal Academy	NO
DC4653	DC4653	MphaCU50	MphaCU50_DC4653	<i>Madracis pharensis</i>	Curacao	Seaquarium	41-60	50	MPCSDA4653		YES	NO	YES	YES	Cal Academy	NO
DC4654	DC4654	MphaCU50	MphaCU50_DC4654	<i>Madracis pharensis</i>	Curacao	Seaquarium	41-60	50	MPCSDA4654		YES	NO	YES	YES	Cal Academy	NO
DC4685	DC4685	MphaCU40B15	MphaCU40_DC4685	<i>Madracis pharensis</i>	Curacao	Seaquarium	40m	40		31/03/13	NO	YES	YES	YES	Cal Academy	YES
DC4686	DC4686	MphaCU40B15	MphaCU40_DC4686	<i>Madracis pharensis</i>	Curacao	Seaquarium	40m	40		31/03/13	NO	YES (but find no se	YES	YES	Cal Academy	YES
DC4687	DC4687	MphaCU40	MphaCU40_DC4687	<i>Madracis pharensis</i>	Curacao	Seaquarium		40				NO	YES	YES	NO	NO
DC4691	DC4691	MphaCU40B15	MphaCU40_DC4691	<i>Madracis pharensis</i>	Curacao	Seaquarium	40m	40		31/03/13	NO	YES	YES	YES	Cal Academy	YES
DC4775	DC4775	MphaCU40B15	MphaCU40_DC4775	<i>Madracis pharensis</i>	Curacao	Seaquarium	40m	40		01/04/13	NO	YES	YES	NO		NO
DC4810T	DC4810	MforCU40	MforCU40_DC4810	<i>Madracis formosa</i>	Curacao	Seaquarium	21-40	40	MFCSD4810A	01/04/13	YES	low SNP cov	NO	YES	YES	Cal Academy
DC4811	DC4811	MforCU40	MforCU40_DC4811	<i>Madracis formosa</i>	Curacao	Seaquarium	21-40	40	MFCSD4811A	01/04/13	YES	low SNP cov	NO	YES	YES	Cal Academy
DC4813	DC4813	MforCU40	MforCU40_DC4813	<i>Madracis formosa</i>	Curacao	Seaquarium	21-40	40	MFCSD4813A	01/04/13	YES	low SNP cov	NO	YES	YES	Cal Academy
DC4845	DC4845	MphaCU60B15	MphaCU60_DC4845	<i>Madracis pharensis</i>	Curacao	Seaquarium	60m	60		03/04/13	NO	YES	YES	NO		NO
DC4939	DC4939	MphaCU15B15	MphaCU15_DC4939	<i>Madracis pharensis</i>	Curacao	Seaquarium	15m	15		03/04/13	NO	YES (but find no se	YES	YES	Cal Academy	YES
DC4940	DC4940	MphaCU15B7	MphaCU15_DC4940	<i>Madracis pharensis</i>	Curacao	Seaquarium	15m	15		03/04/13	NO	YES	YES	YES	Cal Academy	YES
DC4941	DC4941	MphaCU15B7	MphaCU15_DC4941	<i>Madracis pharensis</i>	Curacao	Seaquarium	15m	15		03/04/13	NO	YES (low quality se	YES	YES	Cal Academy	YES
DC4943	DC4943	MphaCU15	MphaCU15_DC4943	<i>Madracis pharensis</i>	Curacao	Seaquarium	11-20	15	MPCSSA4943		YES	NO	YES	YES	Cal Academy	NO
DC4944	DC4944	MphaCU15	MphaCU15_DC4944	<i>Madracis pharensis</i>	Curacao	Seaquarium	11-20	15	MPCSSA4944		YES	NO	YES	YES	Cal Academy	NO
DC4945	DC4945	MphaCU15	MphaCU15_DC4945	<i>Madracis pharensis</i>	Curacao	Seaquarium	11-20	15	MPCSSA4945		YES	NO	YES	YES	Cal Academy	NO
DC4954	DC4954	MphaCU15B7	MphaCU15_DC4954	<i>Madracis pharensis</i>	Curacao	Seaquarium	15m	15		03/04/13	NO	YES	YES	YES	Cal Academy	YES
DC5020	DC5020	MphaCU25B15	MphaCU25_DC5020	<i>Madracis pharensis</i>	Curacao	Seaquarium	25m	25		03/04/13	NO	YES	YES	NO		YES
DC5021	DC5021	MphaCU25B15	MphaCU25_DC5021	<i>Madracis pharensis</i>	Curacao	Seaquarium	25m	25		03/04/13	NO	YES (but find no se	YES	NO		NO
DC5022	DC5022	MphaCU25B15	MphaCU25_DC5022	<i>Madracis pharensis</i>	Curacao	Seaquarium	25m	25		03/04/13	NO	YES (but find no se	YES	NO		NO
DC5061	DC5061	MphaCU15	MphaCU15_DC5061	<i>Madracis pharensis</i>	Curacao	Seaquarium	11-20	15	MPCSSA5061		YES	NO	YES	YES	Cal Academy	NO
DC5062	DC5062	MphaCU15	MphaCU15_DC5062	<i>Madracis pharensis</i>	Curacao	Seaquarium	11-20	15	MPCSSA5062		YES	NO	YES	YES	Cal Academy	NO
DC5063	DC5063	MphaCU15	MphaCU15_DC5063	<i>Madracis pharensis</i>	Curacao	Seaquarium	11-20	15	MPCSSA5063		YES	NO	YES	YES	Cal Academy	NO
DC5336	DC5336	MphaCU50	MphaCU50_DC5336	<i>Madracis pharensis</i>	Curacao	Buoy 1	41-60	50	MPCBDH5336		YES	NO	YES	YES	Cal Academy	NO
DC5343	DC5343	MphaCU50	MphaCU50_DC5343	<i>Madracis pharensis</i>	Curacao	Buoy 1	41-60	50	MPCBDA5343		YES	NO	YES	YES	Cal Academy	NO
DC5370	DC5370	MphaCU15	MphaCU15_DC5370	<i>Madracis pharensis</i>	Curacao	Buoy 1	11-20	15	MPCBSA5370		YES	NO	YES	YES	Cal Academy	NO
DC5371	DC5371	MphaCU15	MphaCU15_DC5371	<i>Madracis pharensis</i>	Curacao	Buoy 1	11-20	15	MPCBSA5371		YES	NO	YES	YES	Cal Academy	NO
DC5375	DC5375	MphaCU15	MphaCU15_DC5375	<i>Madracis pharensis</i>	Curacao	Buoy 1	11-20	15	MPCBSA5375		YES	NO	YES	YES	Cal Academy	NO
DC5541	DC5541	MphaCU15B15	MphaCU15_DC5541	<i>Madracis pharensis</i>	Curacao	Buoy 1	15m	15		06/04/13	NO	YES	YES	YES	Cal Academy	YES
DC5542	DC5542	MphaCU15B7	MphaCU15_DC5542	<i>Madracis pharensis</i>	Curacao	Buoy 1	15m	15		06/04/13	NO	YES	YES	YES	Cal Academy	YES
DC5557	DC5557	MphaCU15B7	MphaCU15_DC5557	<i>Madracis pharensis</i>	Curacao	Buoy 1	15m	15		06/04/13	NO	YES	YES	YES	Cal Academy	YES
DC5558	DC5558	MphaCU15B15	MphaCU15_DC5558	<i>Madracis pharensis</i>	Curacao	Buoy 1	15m	15		06/04/13	NO	YES	YES	YES	Cal Academy	YES
DC5559	DC5559	MphaCU15B7	MphaCU15_DC5559	<i>Madracis pharensis</i>	Curacao	Buoy 1	15m	15		06/04/13	NO	YES (but find no se	YES	YES	Cal Academy	YES
DC5620	DC5620	MphaCU40B15	MphaCU40_DC5620	<i>Madracis pharensis</i>	Curacao	Buoy 1	40m	40		08/04/13	NO	YES	YES	NO		NO
DC5621	DC5621	MphaCU40B15	MphaCU40_DC5621	<i>Madracis pharensis</i>	Curacao	Buoy 1	40m	40		08/04/13	NO	YES	YES	YES	Cal Academy	YES
DC5630	DC5630	MphaCU40B15	MphaCU40_DC5630	<i>Madracis pharensis</i>	Curacao	Buoy 1	40m	40		08/04/13	NO	YES	YES	YES	Cal Academy	YES
DC5810	DC5810	MphaCU25	MphaCU25_DC5810	<i>Madracis pharensis</i>	Curacao	Buoy 1	25m	25		08/04/13	NO	YES	YES	NO		NO
DC5812	DC5812	MphaCU25B15	MphaCU25_DC5812	<i>Madracis pharensis</i>	Curacao	Buoy 1	25m	25		08/04/13	NO	YES	YES	NO		NO
DC5929	DC5929	MphaCU60B15	MphaCU60_DC5929	<i>Madracis pharensis</i>	Curacao	Buoy 1	60m	60		09/04/13	NO	YES	YES	NO		NO
DC5931	DC5931	MphaCU60B15	MphaCU60_DC5931	<i>Madracis pharensis</i>	Curacao	Buoy 1	60m	60		09/04/13	NO	YES	YES	NO		NO
DC5935	DC5935	MphaCU60B15	MphaCU60_DC5935	<i>Madracis pharensis</i>	Curacao	Buoy 1	60m	60		09/04/13	NO	YES	YES	NO		NO
DC6662	DC6662	MdecBA13	MdecBA13_DC6662	<i>Madracis decactis</i>	Bermuda	Princess	13m	13		20/09/13	NO	NO	YES	YES	Cal Academy	YES
DC6663	DC6663	MdecBA13b7	MdecBA13_DC6663	<i>Madracis decactis</i>	Bermuda	John Smith	11-20	13	MDMJS6663H	20/09/13	YES	YES	YES	YES	Cal Academy	YES
DC6664	DC6664	MdecBA13b7	MdecBA13_DC6664	<i>Madracis decactis</i>	Bermuda	John Smith	11-20	13	MDMJS6664H	20/09/13	YES	YES	YES	YES	Cal Academy	YES
DC6665	DC6665	MdecBA13	MdecBA13_DC6665	<i>Madracis decactis</i>	Bermuda	John Smith	13m	13		20/09/13	NO	NO	YES	YES	Cal Academy	YES
DC6666	DC6666	MdecBA13	MdecBA13_DC6666	<i>Madracis decactis</i>	Bermuda	John Smith	13m	13		20/09/13	NO	NO	YES	YES	Cal Academy	YES
DC6667	DC6667	MdecBA13	MdecBA13_DC6667	<i>Madracis decactis</i>	Bermuda	John Smith	13m	13		20/09/13	NO	NO	YES	YES	Cal Academy	YES
DC6668	DC6668	MspBA13b7	MspBA13_DC6668	<i>Madracis sp.</i>	Bermuda	Gurnet	11-20	13	MPMG5668H	20/09/13	YES	YES	YES	YES	Cal Academy	YES
DC6669	DC6669	MdecBA13b7	MdecBA13_DC6669	<i>Madracis decactis</i>	Bermuda	Gurnet	11-20	13	MDMG5669H	20/09/13	YES	NO	YES	YES	Cal Academy	YES
DC6670	DC6670	MdecBA13	MdecBA13_DC6670	<i>Madracis decactis</i>	Bermuda	Gurnet	13m	13		20/09/13	NO	NO	YES	YES	Cal Academy	YES
DC6671	DC6671	MdecBA13b7	MdecBA13_DC6671	<i>Madracis decactis</i>	Bermuda	Gurnet	11-20	13	MDMG56671H	20/09/13	YES	NO	YES	YES	Cal Academy	YES
DC6672	DC6672	MdecBA13	MdecBA13_DC6672	<i>Madracis decactis</i>	Bermuda	Gurnet	13m	13		20/09/13	NO	NO	YES	YES	Cal Academy	YES
DC6673	DC6673	MdecBA13	MdecBA13_DC6673	<i>Madracis decactis</i>	Bermuda	Gurnet	13m	13		20/09/13	NO	NO	YES	YES	Cal Academy	YES
DC6794	DC6794	M*carBA40b7	McarBA40_DC6794	<i>Madracis carmabi</i>	Bermuda	Gurnet	21-40	40	MCMG06794H	22/09/13	YES	NO	YES	YES	Cal Academy	YES

DC6795	DC6795	M*carBA40	McfdBA40_DC6795	<i>Madracis cf. decactis</i>	Bermuda	Gurnet	40m	40		22/09/13	NO	NO	YES	YES	Cal Academy	YES
DC6796	DC6796	M*carBA40	McfdBA40_DC6796	<i>Madracis cf. decactis</i>	Bermuda	Gurnet	21-40	40	MCMGD6796H	22/09/13	YES	low SNP cov	NO	YES	YES	YES
DC6797	DC6797	M*carBA40	McfdBA40_DC6797	<i>Madracis cf. decactis</i>	Bermuda	John Smith	40m	40		22/09/13	NO	NO	YES	YES	Cal Academy	YES
DC6798	DC6798	MdecBA40	MdecBA40_DC6798	<i>Madracis decactis</i>	Bermuda	John Smith	40m	40		22/09/13	NO	NO	YES	YES	Cal Academy	YES
DC6914	DC6914	MspBA40b15	MspBA40_DC6914	<i>Madracis sp.</i>	Bermuda	John Smith	21-40	40	MCMJD6914H	22/09/13	YES	NO	YES	YES	Cal Academy	YES
DC6974	DC6974	M*carBA40	McarBA40_DC6974	<i>Madracis carmabi</i>	Bermuda	Western Blue	40m	43		24/09/13	NO	YES	YES	YES	Cal Academy	YES
DC6975	DC6975	M*carBA40b7	McfdBA40_DC6975	<i>Madracis cf. decactis</i>	Bermuda	Western Blue	41-60	43	MCMWD6975H	24/09/13	YES	YES	YES	YES	Cal Academy	YES
DC6976 T	DC6976	M*carBA40b7	McfdBA40_DC6976	<i>Madracis cf. decactis</i>	Bermuda	Western Blue	41-60	43	MCMWD6976H	24/09/13	YES	YES	YES	YES	Cal Academy	YES
DC6977	DC6977	M*carBA40	McarBA40_DC6977	<i>Madracis carmabi</i>	Bermuda	Western Blue	40m	43		24/09/13	NO	NO	YES	YES	Cal Academy	YES
DC6978	DC6978	MphaBA40b15	MphaBA40_DC6978	<i>Madracis pharensis</i>	Bermuda	Princess	21-40	40	MPMPD6978H	25/09/13	YES	low SNP cov	NO	YES	YES	YES
DC6979	DC6979	MphaBA40b15	MphaBA40_DC6979	<i>Madracis pharensis</i>	Bermuda	Princess	21-40	40	MPMPD6979H	25/09/13	YES	YES (but find no se	YES	YES	Cal Academy	YES
FOR1	DC8876	MforCU40	MforCU40_DC8876	<i>Madracis formosa</i>	Curacao	Buoy 0	41-60	44	MFCKDA8876	28/06/17	YES	NO	NO	YES	NHMMW-ZOO-EV-21532/1	YES
FOR1-2	DC8876	MforCU40	MforCU40_DX8876	<i>Madracis formosa</i>	Curacao	Buoy 0	41-60	44	MFCKDX8876	YES	duplicate	NO	YES	YES	NHMMW-ZOO-EV-21532/1	NO
FOR2	DC8877	MforCU40	MforCU40_DC8877	<i>Madracis formosa</i>	Curacao	Buoy 0	41-60	41	MFCKDA8877	28/06/17	YES	NO	NO	YES	NHMMW-ZOO-EV-21532/2	NO
FOR2-2	DC8877	MforCU40	MforCU40_DX8877	<i>Madracis formosa</i>	Curacao	Buoy 0	41-60	41	MFCKDX8877	YES	duplicate	NO	YES	YES	NHMMW-ZOO-EV-21532/2	NO
FOR3	DC8878	MforCU40	MforCU40_DC8878	<i>Madracis formosa</i>	Curacao	Buoy 0	41-60	42	MFCKDA8878	28/06/17	YES	NO	NO	NO	NO	YES
FOR3-2	DC8878	MforCU40	MforCU40_DX8878	<i>Madracis formosa</i>	Curacao	Buoy 0	41-60	42	MFCKDX8878	YES	duplicate	NO	YES	NO	NO	NO
MIR1	DC8879	MmirCU08	MmirCU08_DC8879	<i>Madracis mirabilis</i>	Curacao	Snake Bay	<10	9	MMCKSH8879	24/04/17	YES	NO	YES	YES	NHMMW-ZOO-EV-21530/1	NO
MIR2	DC8880	MmirCU07	MmirCU07_DC8880	<i>Madracis mirabilis</i>	Curacao	Snake Bay	<10	7	MMCKSA8880	24/04/17	YES	NO	YES	YES	NHMMW-ZOO-EV-21530/2	NO
MIR3	DC8881	MmirCU06	MmirCU06_DC8881	<i>Madracis mirabilis</i>	Curacao	Snake Bay	<10	6	MMCKSH8881	24/04/17	YES	NO	YES	YES	NHMMW-ZOO-EV-21530/3	NO
MIR4	DC8882	MmirCU06	MmirCU06_DC8882	<i>Madracis mirabilis</i>	Curacao	Snake Bay	<10	6	MMCKSH8882	24/04/17	YES	NO	YES	YES	NHMMW-ZOO-EV-21530/4	NO
MIR5	DC8883	MmirCU05	MmirCU05_DC8883	<i>Madracis mirabilis</i>	Curacao	Snake Bay	<10	7	MMCKSA8883	05/06/17	YES	NO	YES	YES	NHMMW-ZOO-EV-21530/5	NO
MIR6	DC8884	MmirCU07	MmirCU07_DC8884	<i>Madracis mirabilis</i>	Curacao	Snake Bay	<10	7	MMCKSH8884	05/06/17	YES	NO	YES	YES	NHMMW-ZOO-EV-21530/6	NO
MIR7	DC8885	MmirCU10	MmirCU10_DC8885	<i>Madracis mirabilis</i>	Curacao	Snake Bay	<10	10	MMCKSH8885	05/06/17	YES	NO	YES	YES	NHMMW-ZOO-EV-21530/7	NO
MIR8	DC8886	MmirCU10	MmirCU10_DC8886	<i>Madracis mirabilis</i>	Curacao	Snake Bay	<10	10	MMCKSA8886	05/06/17	YES	NO	YES	YES	NHMMW-ZOO-EV-21530/8	NO
SED1	DC8887	MsenCU20	MsenCU20_DC8887	<i>Madracis senaria</i>	Curacao	Snake Bay	21-40	22	MSCKDH8887	05/06/17	YES	NO	YES	YES	NHMMW-ZOO-EV-21533/1	NO
SED1-2	DC8887	MsenCU20	MsenCU20_DX8887	<i>Madracis senaria</i>	Curacao	Snake Bay	21-40	22	MSCKDX8887	05/06/17	YES	duplicate	NO	YES	YES	NHMMW-ZOO-EV-21533/1
SED2	DC8888	MsenCU25	MsenCU25_DC8888	<i>Madracis senaria</i>	Curacao	Buoy 0	21-40	26	MSCKDH8888	28/06/17	YES	NO	YES	YES	NHMMW-ZOO-EV-21533/2	NO
SED2-2	DC8888	MsenCU25	MsenCU25_DX8888	<i>Madracis senaria</i>	Curacao	Buoy 0	21-40	26	MSCKDX8888	28/06/17	YES	duplicate	NO	YES	YES	NHMMW-ZOO-EV-21533/2
SED3	DC8889	MsenCU30	MphaCU30_DC8889	<i>Madracis pharensis</i>	Curacao	Buoy 0	21-40	27	MSCKDA8889	28/06/17	YES	NO	YES	YES	NHMMW-ZOO-EV-21533/3	NO
SED4	DC8890	MsenCU30	MsenCU30_DC8890	<i>Madracis senaria</i>	Curacao	Snake Bay	21-40	29	MSCKDH8890	01/07/17	YES	NO	YES	YES	NHMMW-ZOO-EV-21533/4	NO
SED4-2	DC8890	MsenCU30	MsenCU30_DX8890	<i>Madracis senaria</i>	Curacao	Snake Bay	21-40	29	MSCKDX8890	01/07/17	YES	duplicate	NO	YES	YES	NHMMW-ZOO-EV-21533/4
SEN2	DC8891	MsenCU10	MsenCU10_DC8891	<i>Madracis senaria</i>	Curacao	Buoy 0	<10	10	MSCKSH8891	28/06/17	YES	NO	YES	YES	NHMMW-ZOO-EV-21534/1	NO
SEN3	DC8892	MsenCU10	MsenCU10_DC8892	<i>Madracis senaria</i>	Curacao	Buoy 0	11-20	11	MSCKSH8892	28/06/17	YES	NO	YES	YES	NHMMW-ZOO-EV-21534/2	NO
SEN4	DC8893	MsenCU13	MsenCU13_DC8893	<i>Madracis senaria</i>	Curacao	Snake Bay	11-20	13	MSCKSH8893	05/06/17	YES	NO	YES	YES	NHMMW-ZOO-EV-21534/3	NO
SEN5	DC8894	MsenCU10	MsenCU10_DC8894	<i>Madracis senaria</i>	Curacao	Snake Bay	<10	10	MSCKSH8894	05/06/17	YES	NO	YES	YES	NHMMW-ZOO-EV-21534/4	NO
SEN6	DC8895	MsenCU10	MsenCU10_DC8895	<i>Madracis senaria</i>	Curacao	Snake Bay	<10	10	MSCKSH8895	05/06/17	YES	NO	YES	YES	NHMMW-ZOO-EV-21534/5	NO
SEN7	DC8896	MsenCU10	MsenCU10_DC8896	<i>Madracis senaria</i>	Curacao	Snake Bay	<10	11	MSCKSH8896	05/06/17	YES	NO	YES	YES	NHMMW-ZOO-EV-21534/6	NO
SP45MCAR1	DC8813	McarBA45	MforBA45_DC8813	<i>Madracis formosa</i>	Bermuda	Spittal	41-60	45	MCBSDA8813	YES	NO	NO	YES	YES	NHMMW-ZOO-EV-21524/1	NO
SP45MCAR2	DC8814	McarBA45	MforBA45_DC8814	<i>Madracis formosa</i>	Bermuda	Spittal	41-60	45	MCBSDA8814	YES	NO	NO	YES	YES	NHMMW-ZOO-EV-21524/2	NO
SP45MCAR3	DC8815	McarBA45	MforBA45_DC8815	<i>Madracis formosa</i>	Bermuda	Spittal	41-60	45	MCBSDA8815	YES	NO	NO	YES	YES	NHMMW-ZOO-EV-21524/3	NO
SP45MCAR5	DC8817	McarBA45	McfdBA45_DC8817	<i>Madracis decactis</i>	Bermuda	Spittal	41-60	45	MCBSDA8817	YES	NO	NO	YES	YES	NHMMW-ZOO-EV-21524/5	NO
SP45MCAR6	DC8818	McarBA45	McfdBA45_DC8818	<i>Madracis decactis</i>	Bermuda	Spittal	41-60	45	MCBSDA8818	YES	NO	NO	YES	YES	NHMMW-ZOO-EV-21524/6	NO
SP45MCAR7	DC8819	McarBA45	McarBA45_DC8819	<i>Madracis carmabi</i>	Bermuda	Spittal	41-60	45	MCBSDA8819	YES	NO	NO	YES	YES	NHMMW-ZOO-EV-21524/7	NO
SP45MCAR8	DC8820	McarBA45	McfdBA45_DC8820	<i>Madracis decactis</i>	Bermuda	Spittal	41-60	45	MCBSDA8820	YES	NO	NO	YES	YES	NHMMW-ZOO-EV-21524/8	NO
SP45MCAR9	DC8821	McarBA45	McfdBA45_DC8821	<i>Madracis carmabi</i>	Bermuda	Spittal	41-60	45	MCBSDA8821	YES	NO	NO	NO	YES	NHMMW-ZOO-EV-21524/9	NO
SP45MPHA1	DC8803	MphaBA45	MphaBA45_DC8803	<i>Madracis pharensis</i>	Bermuda	Spittal	41-60	45	MPBSDA8803	YES	NO	NO	YES	YES	NHMMW-ZOO-EV-21523/1	YES
SP45MPHA3	DC8805	MphaBA45	MphaBA45_DC8805	<i>Madracis pharensis</i>	Bermuda	Spittal	41-60	45	MPBSDA8805	YES	NO	NO	YES	YES	NHMMW-ZOO-EV-21523/3	YES
SP45MPHA7	DC8809	MphaBA45	MphaBA45_DC8809	<i>Madracis pharensis</i>	Bermuda	Spittal	41-60	45	MPBSDA8809	YES	NO	NO	YES	YES	NHMMW-ZOO-EV-21523/7	YES
SP60MPHA7	DC8839	MphaBA60	MphaBA60_DC8839	<i>Madracis pharensis</i>	Bermuda	Spittal	41-60	60	MPBSXA8839	YES	NO	NO	YES	YES	NHMMW-ZOO-EV-21528/7	YES
SP60MPHA8	DC8840	MphaBA60	MphaBA60_DC8840	<i>Madracis pharensis</i>	Bermuda	Spittal	41-60	60	MPBSXA8840	YES	NO	NO	YES	YES	NHMMW-ZOO-EV-21528/8	YES
SP60MPHA9	DC8841	MphaBA60	MphaBA60_DC8841	<i>Madracis pharensis</i>	Bermuda	Spittal	41-60	60	MPBSXA8841	YES	NO	NO	YES	YES	NHMMW-ZOO-EV-21528/9	YES
THSMDEC1	DC8843	MdecBA08	MdecBA08_DC8843	<i>Madracis decactis</i>	Bermuda	Three Hill Sho	<10	8	MDBTSA8843	YES	NO	NO	YES	YES	NHMMW-ZOO-EV-21526/1	NO
THSMDEC2	DC8844	MdecBA08	MdecBA08_DC8844	<i>Madracis decactis</i>	Bermuda	Three Hill Sho	<10	8	MDBTSA8844	YES	NO	NO	YES	YES	NHMMW-ZOO-EV-21526/2	NO
THSMDEC3	DC8845	MdecBA08	MdecBA08_DC8845	<i>Madracis decactis</i>	Bermuda	Three Hill Sho	<10	8	MDBTSA8845	YES	NO	NO	YES	YES	NHMMW-ZOO-EV-21526/3	NO
THSMDEC4	DC8846	MdecBA08	MdecBA08_DC8846	<i>Madracis decactis</i>	Bermuda	Three Hill Sho	<10	8	MDBTSA8846	YES	NO	NO	YES	YES	NHMMW-ZOO-EV-21526/4	NO
THSMDEC5	DC8847	MdecBA08	MdecBA08_DC8847	<i>Madracis decactis</i>	Bermuda	Three Hill Sho	<10	8	MDBTSA8847	YES	NO	NO	YES	YES	NHMMW-ZOO-EV-21526/5	NO
THSMDEC6	DC8848	MdecBA08	MdecBA08_DC8848	<i>Madracis decactis</i>	Bermuda	Three Hill Sho	<10	8	MDBTSA8848	YES	NO	NO	YES	YES	NHMMW-ZOO-EV-21526/6	NO
THSMDEC8	DC8850	MdecBA08	MdecBA08_DC8850	<i>Madracis decactis</i>	Bermuda	Three Hill Sho	<10	8	MDBTSA8850	YES	NO	NO	YES	YES	NHMMW-ZOO-EV-21526/8	NO
THSMDEC9	DC8851	MdecBA08	MdecBA08_DC8851	<i>Madracis decactis</i>	Bermuda	Three Hill Sho	<10	8	MDBTSA8851	YES	NO	NO	YES	YES	NHMMW-ZOO-EV-21526/9	NO
THSM MIR1	DC8853	MmirBA08	MmirBA08_DC8853	<i>Madracis mirabilis</i>	Bermuda	Three Hill Sho	<10	8	MMBTSA8853	YES	NO	NO	YES	YES	NHMMW-ZOO-EV-21527/1	NO
THSM MIR10	DC8862	MmirBA08	MmirBA08_DC8862	<i>Madracis mirabilis</i>	Bermuda	Three Hill Sho	<10	8	MMBTSA8862	YES	NO	NO	YES	YES	NHMMW-ZOO-EV-21527/10	NO
THSM MIR2	DC8854	MmirBA08	MmirBA08_DC8854	<i>Madracis mirabilis</i>	Bermuda	Three Hill Sho	<10	8	MMBTSA8854	YES	NO	NO	YES	YES	NHMMW-ZOO-EV-21527/2	NO

THSMMIR4	DC8856	MmirBA08	MmirBA08_DC8856	<i>Madracis mirabilis</i>	Bermuda	Three Hill Sho <10	8	MMBTS8856	YES	NO	YES	YES	NHMMW-ZOO-EV-21527/4	NO		
THSMMIR5	DC8857	MmirBA08	MmirBA08_DC8857	<i>Madracis mirabilis</i>	Bermuda	Three Hill Sho <10	8	MMBTS8857	YES	NO	YES	YES	NHMMW-ZOO-EV-21527/5	NO		
THSMMIR6	DC8858	MmirBA08	MmirBA08_DC8858	<i>Madracis mirabilis</i>	Bermuda	Three Hill Sho <10	8	MMBTS8858	YES	NO	YES	YES	NHMMW-ZOO-EV-21527/6	NO		
THSMMIR7	DC8859	MmirBA08	MmirBA08_DC8859	<i>Madracis mirabilis</i>	Bermuda	Three Hill Sho <10	8	MMBTS8859	YES	NO	YES	YES	NHMMW-ZOO-EV-21527/7	NO		
THSMMIR8	DC8860	MmirBA08	MmirBA08_DC8860	<i>Madracis mirabilis</i>	Bermuda	Three Hill Sho <10	8	MMBTS8860	YES	NO	YES	YES	NHMMW-ZOO-EV-21527/8	NO	YES	
THSMMIR8	DC8860	MmirBA08	MmirBA08_DX8860	<i>Madracis mirabilis</i>	Bermuda	Three Hill Sho <10	8	MMBTSX8860	YES	duplicate	NO	YES	YES	NHMMW-ZOO-EV-21527/8	NO	
THSMMIR9	DC8861	MmirBA08	MmirBA08_DC8861	<i>Madracis mirabilis</i>	Bermuda	Three Hill Sho <10	8	MMBTS8861	YES	NO	YES	YES	NHMMW-ZOO-EV-21527/9	NO		

Table S2

```
$`Mpha-very deep_vs_Mpha-deep_CU`
      Df SumOfSqs  R2    F Pr(>F)
code   1  62.380 0.59796 43.133 0.001 ***
Residual 29  41.941 0.40204
Total   30 104.320 1.00000
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
$`Mpha-very deep_vs_Mfor`
      Df SumOfSqs  R2    F Pr(>F)
code   1  23.092 0.36019 12.948 0.002 **
Residual 23  41.019 0.63981
Total   24  64.110 1.00000
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
$`Mpha-very deep_vs_Mpha-shallow`
      Df SumOfSqs  R2    F Pr(>F)
code   1  91.053 0.67392 62.001 0.001 ***
Residual 30  44.057 0.32608
Total   31 135.110 1.00000
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
$`Mpha-very deep_vs_Mdec`
      Df SumOfSqs  R2    F Pr(>F)
code   1 102.916 0.54382 53.645 0.001 ***
Residual 45  86.331 0.45618
Total   46 189.246 1.00000
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
$`Mpha-very deep_vs_Mspp`
      Df SumOfSqs  R2    F Pr(>F)
code   1  24.394 0.5992 22.425 0.011 *
Residual 15  16.317 0.4008
Total   16  40.710 1.0000
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
$`Mpha-very deep_vs_Mcar`
      Df SumOfSqs  R2    F Pr(>F)
code   1  45.683 0.52637 31.118 0.001 ***
Residual 28  41.105 0.47363
Total   29  86.789 1.00000
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
$`Mpha-very deep_vs_Mpha-deep_BA`
      Df SumOfSqs  R2    F Pr(>F)
code   1  96.533 0.81863 99.298 0.001 ***
Residual 22  21.387 0.18137
Total   23 117.920 1.00000
```

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

\$`Mpha-very deep\_vs\_Mmir`

Df SumOfSqs R2 F Pr(>F)

code 1 16.947 0.37189 13.026 0.001 ***

Residual 22 28.623 0.62811

Total 23 45.570 1.00000

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

\$`Mpha-very deep\_vs\_Msen`

Df SumOfSqs R2 F Pr(>F)

code 1 12.951 0.35424 10.971 0.001 ***

Residual 20 23.610 0.64576

Total 21 36.561 1.00000

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

\$`Mpha-very deep\_vs\_MphaMED`

Df SumOfSqs R2 F Pr(>F)

code 1 135.680 0.76536 78.284 0.001 ***

Residual 24 41.596 0.23464

Total 25 177.276 1.00000

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

\$`Mpha-very deep\_vs\_Mkirby`

Df SumOfSqs R2 F Pr(>F)

code 1 78.442 0.6603 48.594 0.001 ***

Residual 25 40.355 0.3397

Total 26 118.797 1.0000

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

\$`Mpha-deep\_CU\_vs\_Mfor`

Df SumOfSqs R2 F Pr(>F)

code 1 21.029 0.27985 9.3265 0.001 ***

Residual 24 54.115 0.72015

Total 25 75.145 1.00000

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

\$`Mpha-deep\_CU\_vs\_Mpha-shallow`

Df SumOfSqs R2 F Pr(>F)

code 1 2.630 0.04399 1.4263 0.249

Residual 31 57.154 0.95601

Total 32 59.783 1.00000

\$`Mpha-deep\_CU\_vs\_Mdec`

Df SumOfSqs R2 F Pr(>F)

code 1 4.006 0.03873 1.8533 0.158

Residual 46 99.427 0.96127

Total 47 103.433 1.00000

\$`Mpha-deep\_CU\_vs\_Mspp`

Df SumOfSqs R2 F Pr(>F)

code 1 4.623 0.13582 2.5148 0.118

Residual 16 29.413 0.86418

Total 17 34.036 1.00000

\$`Mpha-deep\_CU\_vs\_Mcar`

Df SumOfSqs R2 F Pr(>F)

code 1 2.998 0.05242 1.6042 0.198

Residual 29 54.202 0.94758

Total 30 57.200 1.00000

\$`Mpha-deep\_CU\_vs\_Mpha-deep\_BA`

Df SumOfSqs R2 F Pr(>F)

code 1 27.595 0.44451 18.405 0.001 ***

Residual 23 34.484 0.55549

Total 24 62.079 1.00000

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

\$`Mpha-deep\_CU\_vs\_Mmir`

Df SumOfSqs R2 F Pr(>F)

code 1 24.027 0.36545 13.246 0.001 ***

Residual 23 41.719 0.63455

Total 24 65.747 1.00000

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

\$`Mpha-deep\_CU\_vs\_Msen`

Df SumOfSqs R2 F Pr(>F)

code 1 40.806 0.52644 23.345 0.001 ***

Residual 21 36.707 0.47356

Total 22 77.512 1.00000

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

\$`Mpha-deep\_CU\_vs\_MphaMED`

Df SumOfSqs R2 F Pr(>F)

code 1 49.408 0.47462 22.584 0.001 ***

Residual 25 54.693 0.52538

Total 26 104.101 1.00000

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

\$`Mpha-deep\_CU\_vs\_Mkirby`

Df SumOfSqs R2 F Pr(>F)

code 1 9.219 0.1471 4.4843 0.021 *

Residual 26 53.452 0.8529

Total 27 62.671 1.0000

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```
$`Mfor_vs_Mpha-shallow`
      Df SumOfSqs  R2    F Pr(>F)
code   1  35.402 0.38634 15.739 0.001 ***
Residual 25  56.232 0.61366
Total   26  91.634 1.00000
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
$Mfor_vs_Mdec
      Df SumOfSqs  R2    F Pr(>F)
code   1  45.278 0.3149 18.386 0.001 ***
Residual 40  98.505 0.6851
Total   41 143.783 1.0000
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
$Mfor_vs_Mspp
      Df SumOfSqs  R2    F Pr(>F)
code   1  18.931 0.3992 6.6446 0.029 *
Residual 10  28.491 0.6008
Total   11  47.423 1.0000
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
$Mfor_vs_Mcar
      Df SumOfSqs  R2    F Pr(>F)
code   1  23.218 0.30351 10.023 0.002 **
Residual 23  53.280 0.69649
Total   24  76.498 1.00000
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
$`Mfor_vs_Mpha-deep_BA`
      Df SumOfSqs  R2    F Pr(>F)
code   1  73.246 0.68577 37.101 0.001 ***
Residual 17  33.562 0.31423
Total   18 106.808 1.00000
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
$Mfor_vs_Mmir
      Df SumOfSqs  R2    F Pr(>F)
code   1  30.199 0.42536 12.584 0.001 ***
Residual 17  40.797 0.57464
Total   18  70.996 1.00000
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
$Mfor_vs_Msen
      Df SumOfSqs  R2    F Pr(>F)
code   1  38.490 0.51821 16.134 0.001 ***
Residual 15  35.785 0.48179
```

Total 16 74.275 1.00000

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

\$Mfor_vs_MphaMED

Df SumOfSqs R2 F Pr(>F)

code 1 105.905 0.66325 37.421 0.001 ***

Residual 19 53.771 0.33675

Total 20 159.676 1.00000

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

\$Mfor_vs_Mkirby

Df SumOfSqs R2 F Pr(>F)

code 1 47.068 0.47258 17.92 0.001 ***

Residual 20 52.530 0.52742

Total 21 99.598 1.00000

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

\$`Mpha-shallow\_vs\_Mdec`

Df SumOfSqs R2 F Pr(>F)

code 1 2.165 0.02087 1.0019 0.378

Residual 47 101.544 0.97913

Total 48 103.708 1.00000

\$`Mpha-shallow\_vs\_Mspp`

Df SumOfSqs R2 F Pr(>F)

code 1 3.207 0.09233 1.7294 0.231

Residual 17 31.530 0.90767

Total 18 34.737 1.00000

\$`Mpha-shallow\_vs\_Mcar`

Df SumOfSqs R2 F Pr(>F)

code 1 7.887 0.12284 4.2014 0.019 *

Residual 30 56.319 0.87716

Total 31 64.206 1.00000

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

\$`Mpha-shallow\_vs\_Mpha-deep\_BA`

Df SumOfSqs R2 F Pr(>F)

code 1 21.051 0.36514 13.804 0.001 ***

Residual 24 36.601 0.63486

Total 25 57.652 1.00000

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

\$`Mpha-shallow\_vs\_Mmir`

Df SumOfSqs R2 F Pr(>F)

code 1 34.143 0.43785 18.694 0.001 ***

Residual 24 43.836 0.56215

Total 25 77.979 1.00000

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

\$`Mpha-shallow\_vs\_Msen`

Df SumOfSqs R2 F Pr(>F)

code 1 53.254 0.57836 30.178 0.001 ***

Residual 22 38.823 0.42164

Total 23 92.077 1.00000

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

\$`Mpha-shallow\_vs\_MphaMED`

Df SumOfSqs R2 F Pr(>F)

code 1 39.526 0.4103 18.09 0.001 ***

Residual 26 56.809 0.5897

Total 27 96.335 1.0000

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

\$`Mpha-shallow\_vs\_Mkirby`

Df SumOfSqs R2 F Pr(>F)

code 1 5.898 0.09595 2.8656 0.063 .

Residual 27 55.569 0.90405

Total 28 61.466 1.00000

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

\$Mdec_vs_Mspp

Df SumOfSqs R2 F Pr(>F)

code 1 1.917 0.02532 0.8314 0.46

Residual 32 73.803 0.97468

Total 33 75.721 1.00000

\$Mdec_vs_Mcar

Df SumOfSqs R2 F Pr(>F)

code 1 5.123 0.0494 2.3384 0.099 .

Residual 45 98.592 0.9506

Total 46 103.715 1.0000

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

\$`Mdec\_vs\_Mpha-deep\_BA`

Df SumOfSqs R2 F Pr(>F)

code 1 17.625 0.18264 8.7147 0.001 ***

Residual 39 78.874 0.81736

Total 40 96.499 1.00000

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

\$Mdec_vs_Mmir

Df SumOfSqs R2 F Pr(>F)

code 1 29.141 0.25285 13.198 0.001 ***

Residual 39 86.109 0.74715

Total 40 115.251 1.00000

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

\$Mdec_vs_Msen

Df SumOfSqs R2 F Pr(>F)

code 1 48.449 0.37399 22.105 0.001 ***

Residual 37 81.097 0.62601

Total 38 129.546 1.00000

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

\$Mdec_vs_MphaMED

Df SumOfSqs R2 F Pr(>F)

code 1 37.684 0.27554 15.594 0.001 ***

Residual 41 99.083 0.72446

Total 42 136.767 1.00000

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

\$Mdec_vs_Mkirby

Df SumOfSqs R2 F Pr(>F)

code 1 2.705 0.0269 1.161 0.331

Residual 42 97.842 0.9731

Total 43 100.547 1.0000

\$Mspp_vs_Mcar

Df SumOfSqs R2 F Pr(>F)

code 1 3.610 0.11214 1.8946 0.175

Residual 15 28.578 0.88786

Total 16 32.188 1.00000

\$`Mspp\_vs\_Mpha-deep\_BA`

Df SumOfSqs R2 F Pr(>F)

code 1 0.5433 0.05778 0.5519 0.565

Residual 9 8.8602 0.94222

Total 10 9.4036 1.00000

\$Mspp_vs_Mmir

Df SumOfSqs R2 F Pr(>F)

code 1 7.9059 0.32939 4.4207 0.061 .

Residual 9 16.0955 0.67061

Total 10 24.0014 1.00000

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

\$Mspp_vs_Msen

Df SumOfSqs R2 F Pr(>F)

code 1 13.777 0.55418 8.7014 0.034 *

Residual 7 11.083 0.44582

Total 8 24.859 1.00000

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

\$Mspp_vs_MphaMED

	Df	SumOfSqs	R2	F	Pr(>F)
code	1	2.2054	0.07052	0.8345	0.497
Residual	11	29.0691	0.92948		
Total	12	31.2746	1.00000		

\$Mspp_vs_Mkirby

	Df	SumOfSqs	R2	F	Pr(>F)
code	1	0.3526	0.01251	0.152	0.828
Residual	12	27.8282	0.98749		
Total	13	28.1807	1.00000		

\$`Mcar\_vs\_Mpha-deep\_BA`

	Df	SumOfSqs	R2	F	Pr(>F)
code	1	21.952	0.39482	14.353	0.001 ***
Residual	22	33.649	0.60518		
Total	23	55.601	1.00000		

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

\$Mcar_vs_Mmir

	Df	SumOfSqs	R2	F	Pr(>F)
code	1	11.600	0.22102	6.2421	0.005 **
Residual	22	40.884	0.77898		
Total	23	52.484	1.00000		

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

\$Mcar_vs_Msen

	Df	SumOfSqs	R2	F	Pr(>F)
code	1	25.221	0.41284	14.062	0.001 ***
Residual	20	35.872	0.58716		
Total	21	61.093	1.00000		

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

\$Mcar_vs_MphaMED

	Df	SumOfSqs	R2	F	Pr(>F)
code	1	40.799	0.43102	18.18	0.001 ***
Residual	24	53.858	0.56898		
Total	25	94.656	1.00000		

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

\$Mcar_vs_Mkirby

	Df	SumOfSqs	R2	F	Pr(>F)
code	1	7.150	0.11964	3.3974	0.038 *
Residual	25	52.617	0.88036		
Total	26	59.767	1.00000		

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```
$`Mpha-deep_BA_vs_Mmir`  
      Df SumOfSqs    R2    F Pr(>F)  
code   1  28.533 0.57412 21.569 0.001 ***  
Residual 16  21.166 0.42588  
Total   17  49.699 1.00000  
---  
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
$`Mpha-deep_BA_vs_Msen`  
      Df SumOfSqs    R2    F Pr(>F)  
code   1  40.578 0.71527 35.169 0.001 ***  
Residual 14  16.154 0.28473  
Total   15  56.732 1.00000  
---  
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
$`Mpha-deep_BA_vs_MphaMED`  
      Df SumOfSqs    R2    F Pr(>F)  
code   1   1.59 0.04451 0.8386 0.438  
Residual 18  34.14 0.95549  
Total   19  35.73 1.00000
```

```
$`Mpha-deep_BA_vs_Mkirby`  
      Df SumOfSqs    R2    F Pr(>F)  
code   1   5.451 0.14213 3.148 0.051 .  
Residual 19  32.899 0.85787  
Total   20  38.350 1.00000  
---  
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
$Mmir_vs_Msen  
      Df SumOfSqs    R2    F Pr(>F)  
code   1  2.9733 0.11279 1.7797 0.177  
Residual 14  23.3888 0.88721  
Total   15  26.3620 1.00000
```

```
$Mmir_vs_MphaMED  
      Df SumOfSqs    R2    F Pr(>F)  
code   1  43.007 0.50967 18.71 0.001 ***  
Residual 18  41.375 0.49033  
Total   19  84.382 1.00000  
---  
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
$Mmir_vs_Mkirby  
      Df SumOfSqs    R2    F Pr(>F)  
code   1  21.526 0.34911 10.191 0.001 ***  
Residual 19  40.134 0.65089  
Total   20  61.661 1.00000  
---  
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
$Msen_vs_MphaMED
```

	Df	SumOfSqs	R2	F	Pr(>F)
code	1	54.304	0.59894	23.895	0.001 ***
Residual	16	36.362	0.40106		
Total	17	90.667	1.00000		

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

\$Msen_vs_Mkirby

	Df	SumOfSqs	R2	F	Pr(>F)
code	1	36.655	0.51068	17.742	0.001 ***
Residual	17	35.121	0.48932		
Total	18	71.777	1.00000		

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

\$MphaMED_vs_Mkirby

	Df	SumOfSqs	R2	F	Pr(>F)
code	1	14.577	0.21536	5.7639	0.007 **
Residual	21	53.108	0.78464		
Total	22	67.684	1.00000		

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Table S3

Code/No	Colony	Corallites	Max. Dia.	Septa	Columella main	Columella point 1	Coenosteum 2	Inter-calicular ridge 3	Depth	Comments	Sor t1	Sor t2	OMIT from here	
4395	Encrusting/sub massive	Spaced	1.1	10 thin & steeply inclined, large spines & pali, 10 secondary septa	Small	Styliform	Small points	Slight	90	Pali very distinct, septal fusion to columella variable	1	1	1	Secondaries & pali
3619	Encrusting/sub massive	Spaced	0.9	10 moderately thick & steeply inclined, moderate spines & pali, 10 secondary septa	Small & diffuse	Point	Fine papillae	Slight	90	Pali very distinct, septal fusion to columella variable	1	4	2	Pali
4382	Encrusting	Close	0.9	10 thin & slightly inclined, small pali spines & teeth, few reduced secondary septa	Small	Small point	Porous with small points	Slight	80	Very fine septa & columella	1	2	3	Reduced secondaries & pali
4381	Encrusting/sub massive	Spaced	1.0	10 moderately thick & steeply inclined, large spines, pali; 10 secondary septa	Indistinct	Moderate Styliform	Fine papillae	Slight	80	Septa do not reach columella	1	3	4	Secondaries & pali
4954	Encrusting/sub massive	Compact, hexagonal	1.3	10 thick & inclined, moderate spines & teeth, reduced secondary septa	Small	Styliform	Missing	Prominent with "groove"	15	Calice walls also present, distinct from ICR	2	5	11	Secondary
4940	Submassive	Compact, hexagonal	1.5	10 thin & inclined, large spines & teeth, reduced secondary septa	Small	Small point/Styliform with spines	Missing	Prominent with "groove"	15	Calice walls also present, distinct from ICR	2	6	12	Secondaries
5542	Encrusting/sub massive	Close	1.1	10 moderately thick & inclined, moderate spines, few reduced secondary septa	Moderate	Small conical	Small points	Slight	15	Septa thick at wall, some secondary septa?	2	11	14	Secondaries
4685	Encrusting/sub massive	Compact, hexagonal	1.3	10 thick & inclined, moderate spines, teeth	Moderate	Small point/Styliform	Missing	Prominent with "groove"	40	Calice walls also present, distinct from ICR	3	7	10	Groove
Mpha3 8805	Submassive	Close	1.3	10 thick & slightly inclined, large spines	Large	Absent/ reduced	Granular	Barely visible	45	X	4	14	6	
Mpha7 8809	Submassive	Compact, hexagonal	1.4	10 moderately thick & inclined, large spines	Moderate	Styliform	Absent	Well developed	45	Calice walls also present, distinct from ICR	4	15	7	Groove
Mpha1 8803	Submassive	Close	1.4	10 thick & slightly inclined, large spines	Large	Absent/ reduced	Granular	Barely visible	45	Septa v thick at wall	4	13	8	
6979	Submassive	Compact	1.4	10 thin & inclined, few teeth	Moderate	Conical	Small points	Slight	40	X	4	9	9	
5558	Encrusting/sub massive	Spaced	1.2	10 thick & inclined, large spines & teeth, 10 secondary septa	Moderate	Conical	Small points	Slight	15	Secondary septa variable development	5	10	13	Secondaries & pali
5541	Encrusting/sub massive	Close	1.3	10 moderately thick & inclined, small spines	Moderate	Small conical	Missing	Prominent	15	Calice walls often present, distinct from ICR	5	12	15	Groove
4576	Encrusting/sub massive	Close	1.1	6 moderate & 4 reduced, slightly inclined	Large	Slight raise	Distinct with spines	Slight	60	Septa smooth and moderately fine	6	8	5	Septa different
TDec1 8843	Submassive	Close	1.3	10 thick & inclined, large spines	Large	Small elaborated point	Elaborate spines	Slight	8	Septa thick & spinous at wall	7	18	18	
TDec3 8845	Submassive	Compact, hexagonal	1.8	10 thick & not inclined, large spines	Large	Small point/Styliform	Absent	Well developed	8	Unusual calice wall plus separate ICR	7	19	19	Groove
Mad5 8827	?	Compact, rounded	1.3	10 moderate, slightly exert, moderate spines	Moderate	Small Styliform	Absent	Distinct & joined to septa	60	X	7	22	22	
Mad7 8829	?	Compact, rounded	1.7	10 moderate, slightly exert, moderate spines	Moderate	Small Styliform/absent	Absent	Distinct & joined to septa	60	X	7	23	23	
Mcar5 8817	Submassive, nodular	Compact, slightly hexagonal	1.4	10 moderately thick & slightly inclined, few spines	Moderate	Small Styliform	Absent	Distinct wall separate from calice wall	45	Unusual calice wall plus separate ICR	16	24	24	Groove?
Sed2 8888	Submassive	Spaced	1.3	6 moderate, 3 thin & incomplete, inclined, large spines	Moderate	Point	Smooth	Barely visible	45	Some septa thickened at wall	17	30	30	Septa different
Sen5 8894	Submassive	Close	1.6	9 most v thick at the wall, some less developed, large spines on thick septa	Large	None	Porous & smooth	Slight	10	Most septa very thick & spinous at wall with 2-3 finer septa	18	31	31	Septa different
Mir10 8862	Submassive, nodular	Compact, hexagonal	1.3	10 moderate & exert, few teeth	Small	Elongate point	Porous, finely granular	Distinct	8	Some septa thickened at wall	21	29	29	
Dec5 8872	Submassive	Compact, rounded	1.4	10 thick & slightly exert, large spines	Moderate	Absent	missing	Thin with groove between	7	Septa v thick & exert at wall	22	17	17	
Dec2 8869	Submassive	Compact, rounded	1	10 thick & slightly exert, large spines	Moderate	Absent	missing	Thin with groove between	10	Septa v thick & exert at wall	23	16	16	
For2 8877	Thick branches	Close	0.9	8 thick & not inclined, large spines	Moderate	Reduced point	Porous with Small spines	Distinct	40	Septa v thick at wall	24	21	20	
For1 8876	Thick branches	Spaced	1	8 thick & slightly inclined, large spines	Moderate	Reduced point	Blunt spines, papillate between	Barely visible	40	Septa v thick at wall	25	20	21	
Mir6 8860	Submassive, nodular	Close	1.7	10 very thick, slightly exert, large numerous spines	Large, sunken	Small Styliform	Mostly smooth	Barely visible	8	Unusually thick & spinose septa	28	28	28	
Mir4 8882	Small branchlets?	Compact, rounded	1.7	10 thin & wavy, slightly exert, some reduced, few small spines	Small	Absent	Finely granular	Slight	6	X	29	27	27	
Mir3 8881	Small branchlets?	Compact, hexagonal	1.6	9-10 thin & wavy, fine & slightly exert, some reduced	Small	Absent	Absent	Septa and walls fine	6	Unusual alveopora-like fine structure	30	26	26	
Mcar6 8818	Submassive, nodular	Compact, hexagonal	1.6	10 moderately thick & slightly exert, few spines	Moderate	Small Styliform	Absent	Distinct & fused with septa		X		25	25	

1. The central part of the columella that can form a distinct Styliform or point

2. Does not include spines etc on the inter-calicular ridge

3. See Wells 1973a, but for some specimens where the coenosteum is porous or absent this is present as a