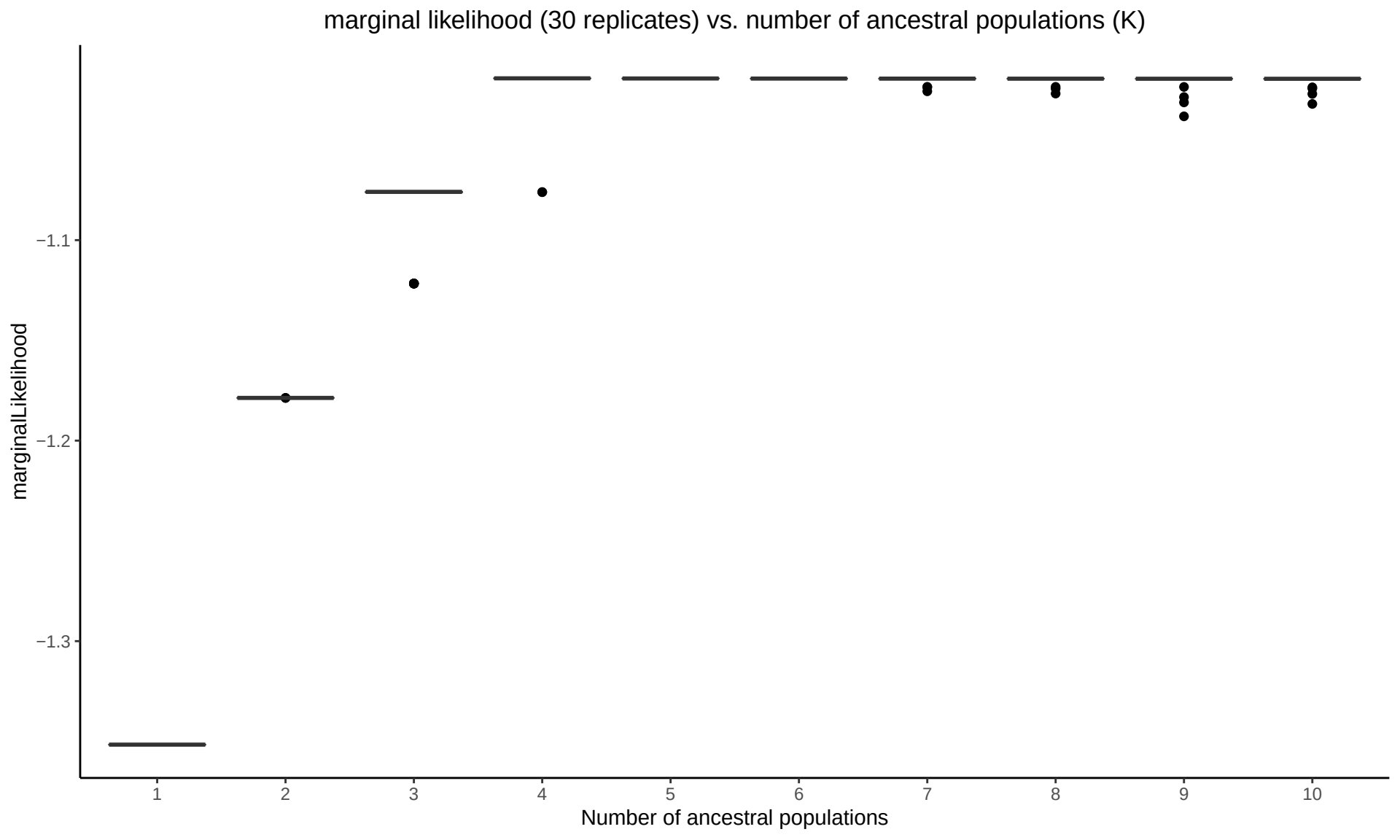
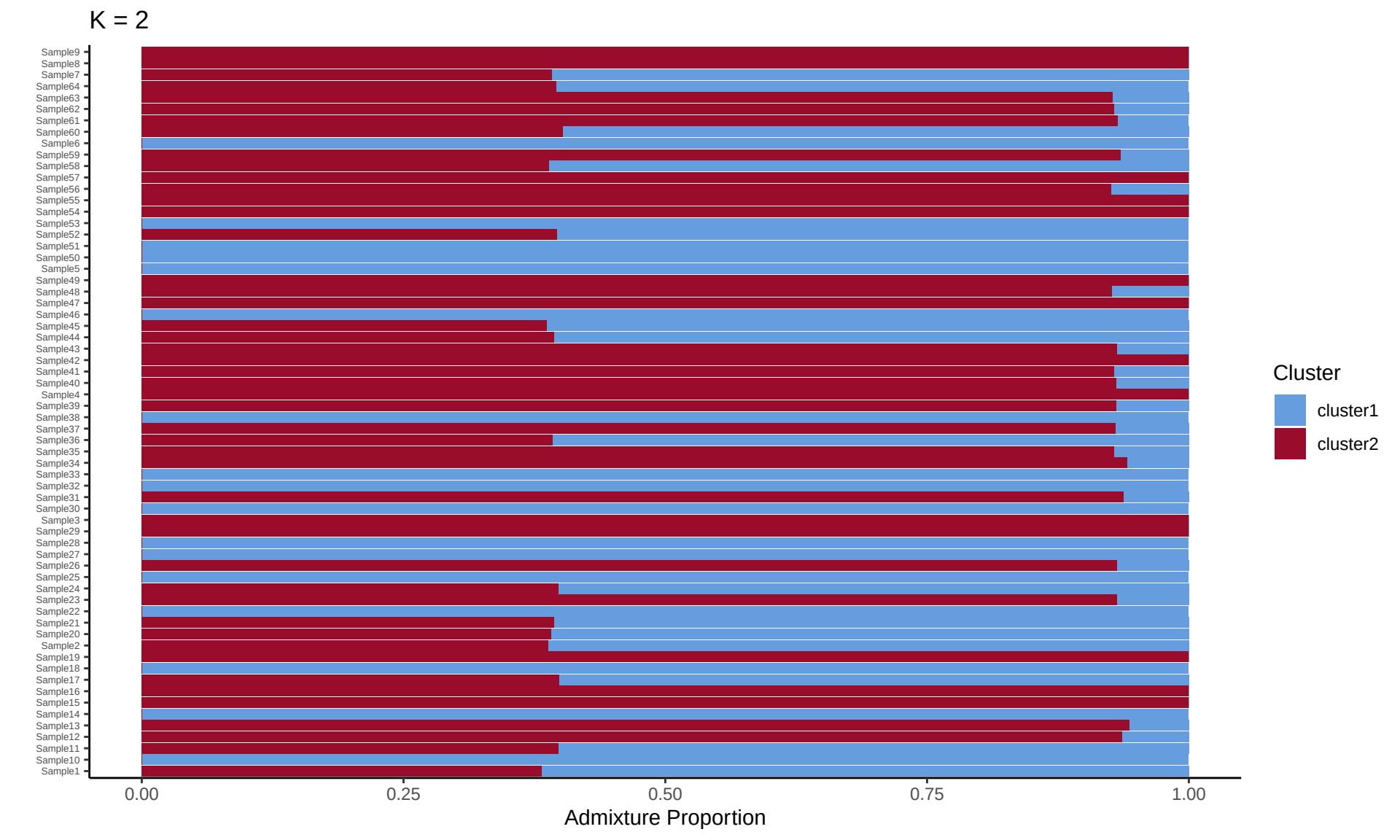
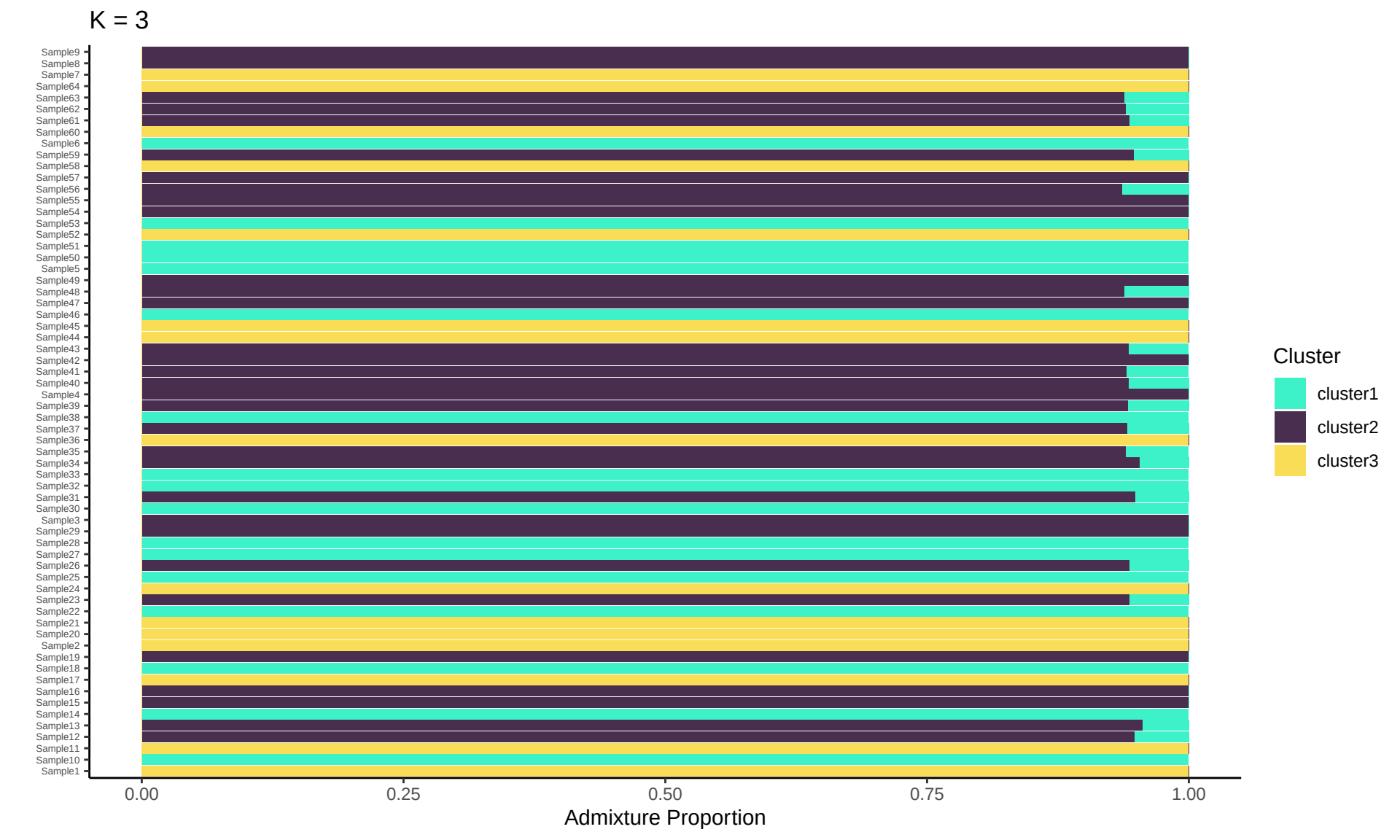
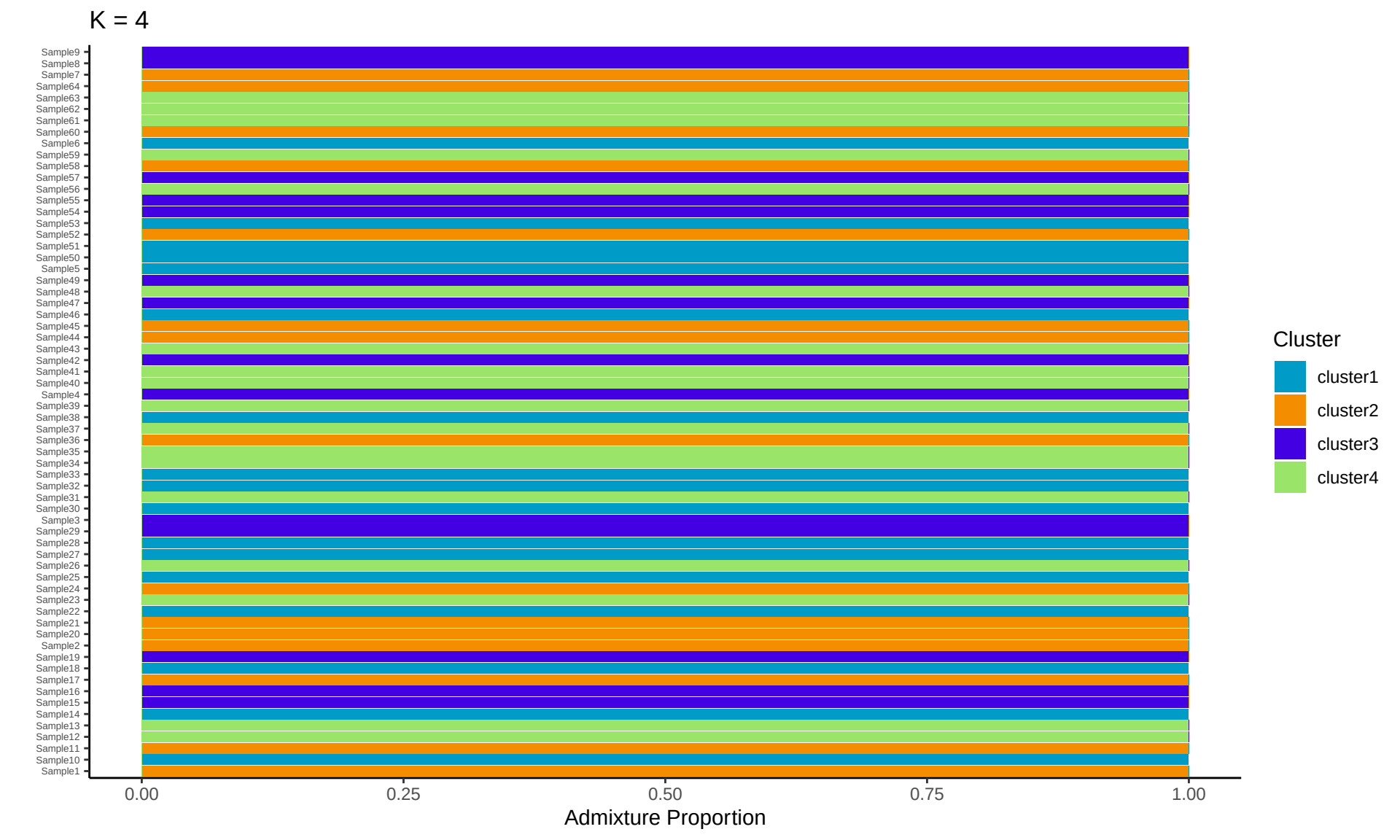
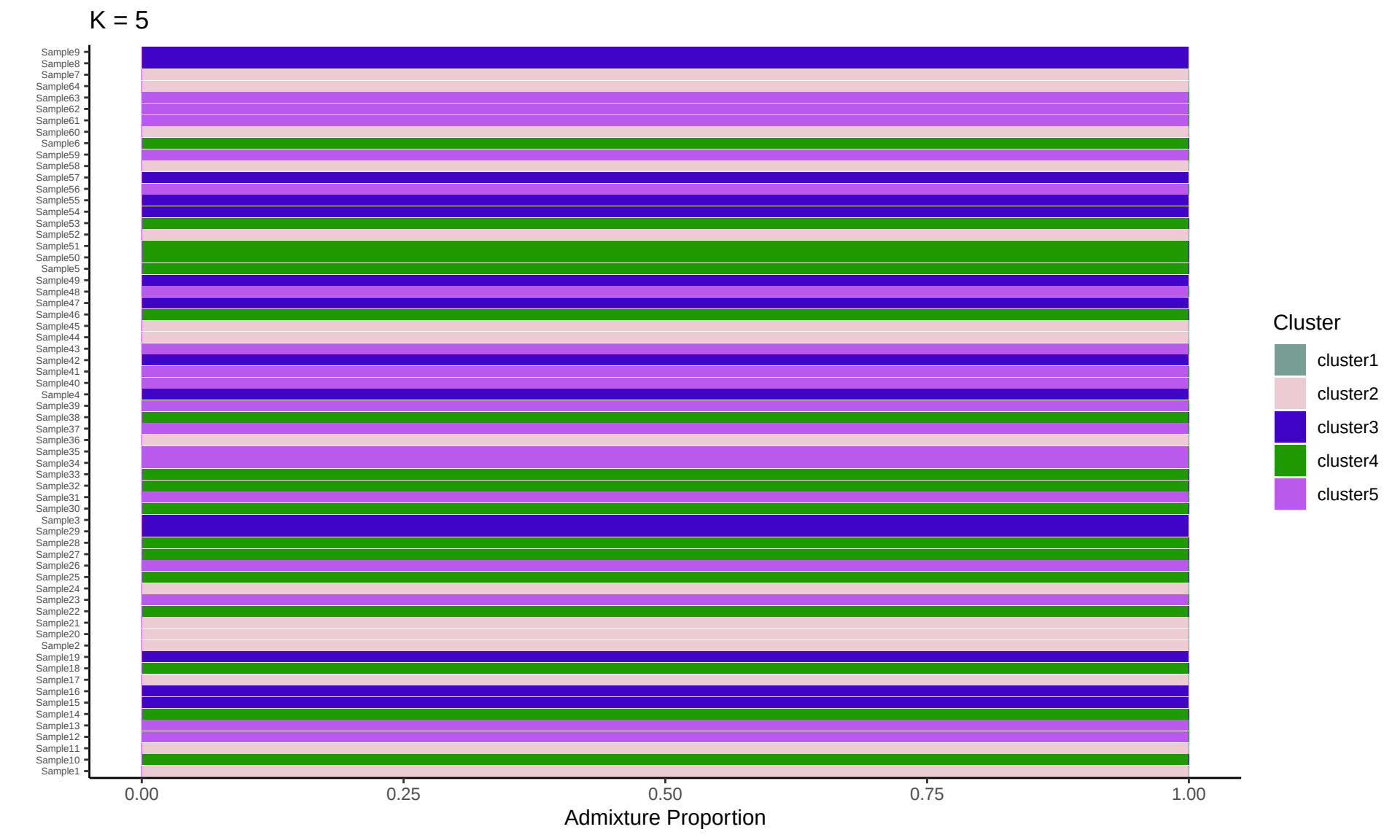
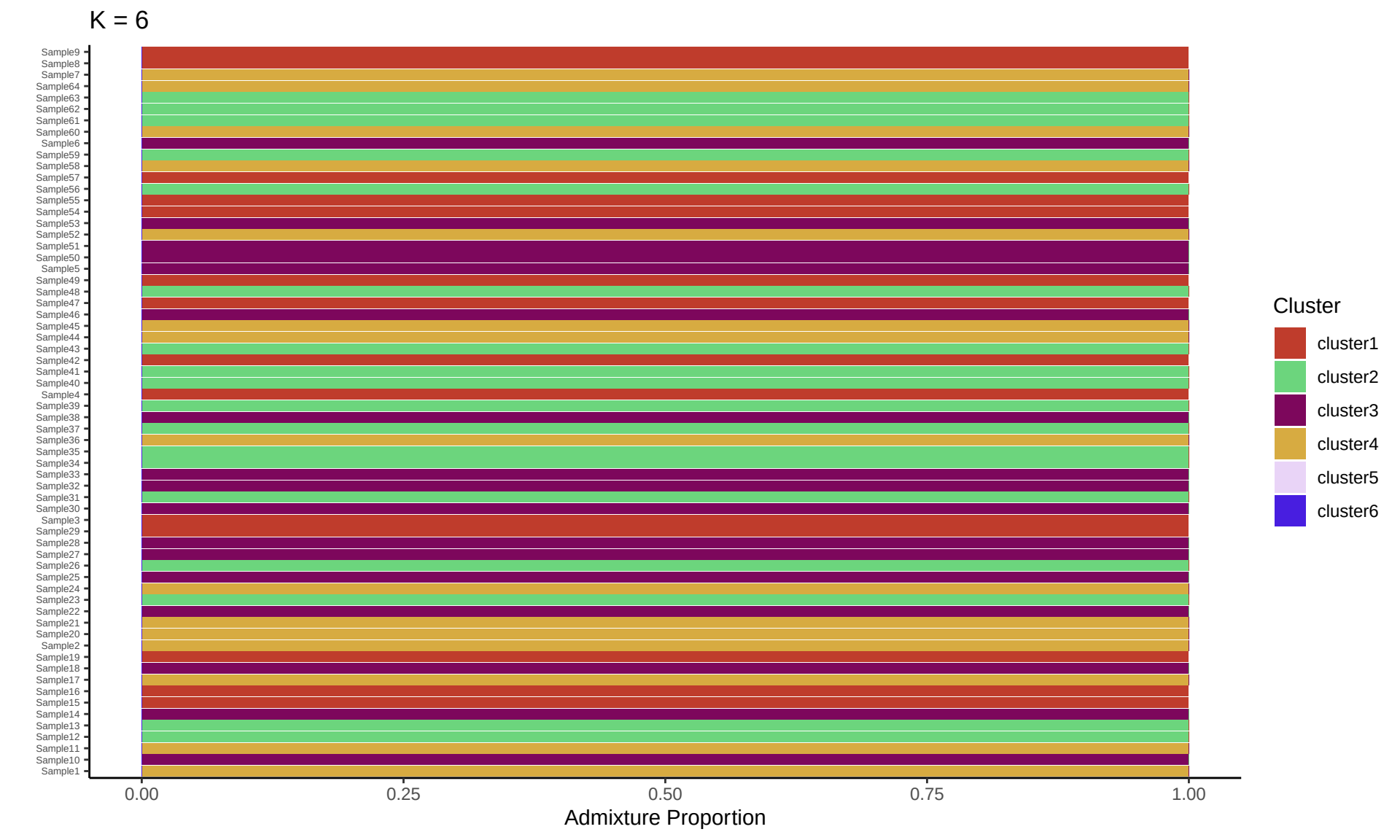

marginal likelihood (30 replicates) vs. number of ancestral populations (K)
marginalLikelihood
−1.1
−1.2
−1.3
1
2
3
4
5
6
7
8
9
10
Number of ancestral populations

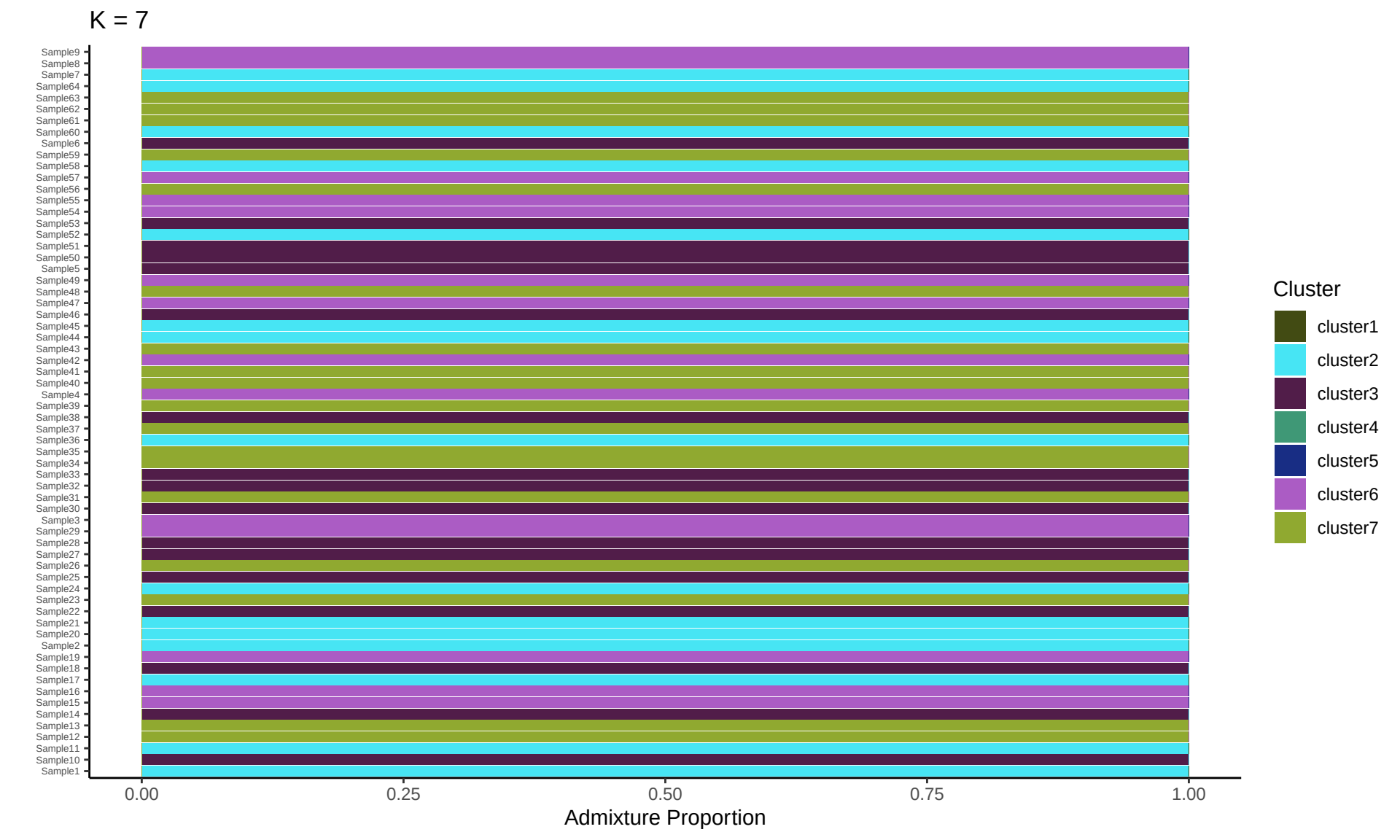

K = 2
Sample9
Sample8
Sample7
Sample64
Sample63
Sample62
Sample61
Sample60
Sample6
Sample59
Sample58
Sample57
Sample56
Sample55
Sample54
Sample53
Sample52
Sample51
Sample50
Sample5
Sample49
Sample48
Sample47
Sample46
Sample45
Sample44
Sample43
Sample42
Sample41
Sample40
Sample4
Sample39
Sample38
Sample37
Sample36
Sample35
Sample34
Sample33
Sample32
Sample31
Sample30
Sample3
Sample29
Sample28
Sample27
Sample26
Sample25
Sample24
Sample23
Sample22
Sample21
Sample20
Sample2
Sample19
Sample18
Sample17
Sample16
Sample15
Sample14
Sample13
Sample12
Sample11
Sample10
Sample1
0.00
0.25
0.50
0.75
1.00
Admixture Proportion
Cluster
cluster1
cluster2

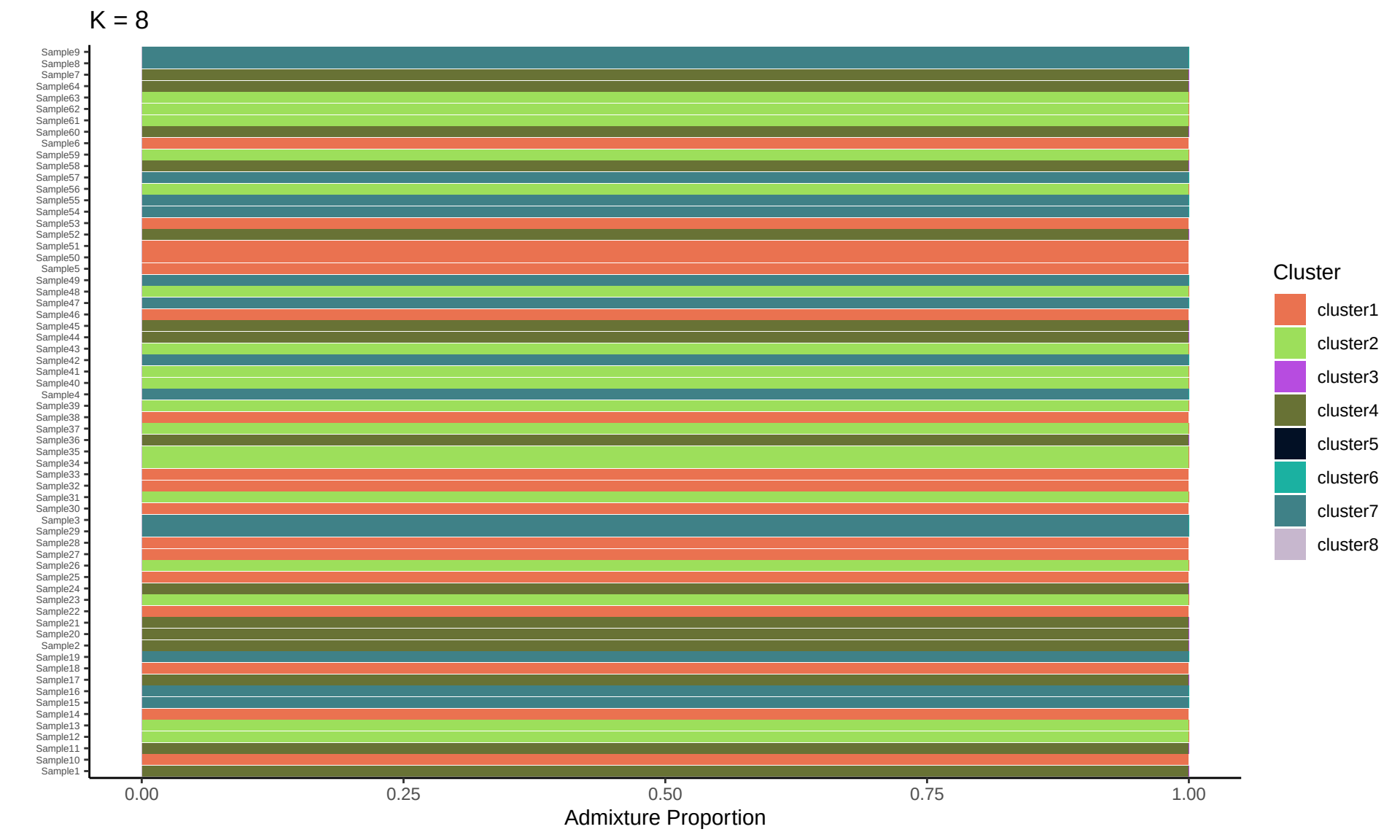

K = 3
Sample9
Sample8
Sample7
Sample64
Sample63
Sample62
Sample61
Sample60
Sample6
Sample59
Sample58
Sample57
Sample56
Sample55
Sample54
Sample53
Sample52
Sample51
Sample50
Sample5
Sample49
Sample48
Sample47
Sample46
Sample45
Sample44
Sample43
Sample42
Sample41
Sample40
Sample4
Sample39
Sample38
Sample37
Sample36
Sample35
Sample34
Sample33
Sample32
Sample31
Sample30
Sample3
Sample29
Sample28
Sample27
Sample26
Sample25
Sample24
Sample23
Sample22
Sample21
Sample20
Sample2
Sample19
Sample18
Sample17
Sample16
Sample15
Sample14
Sample13
Sample12
Sample11
Sample10
Sample1
0.00
0.25
0.50
0.75
1.00
Admixture Proportion
Cluster
cluster1
cluster2
cluster3

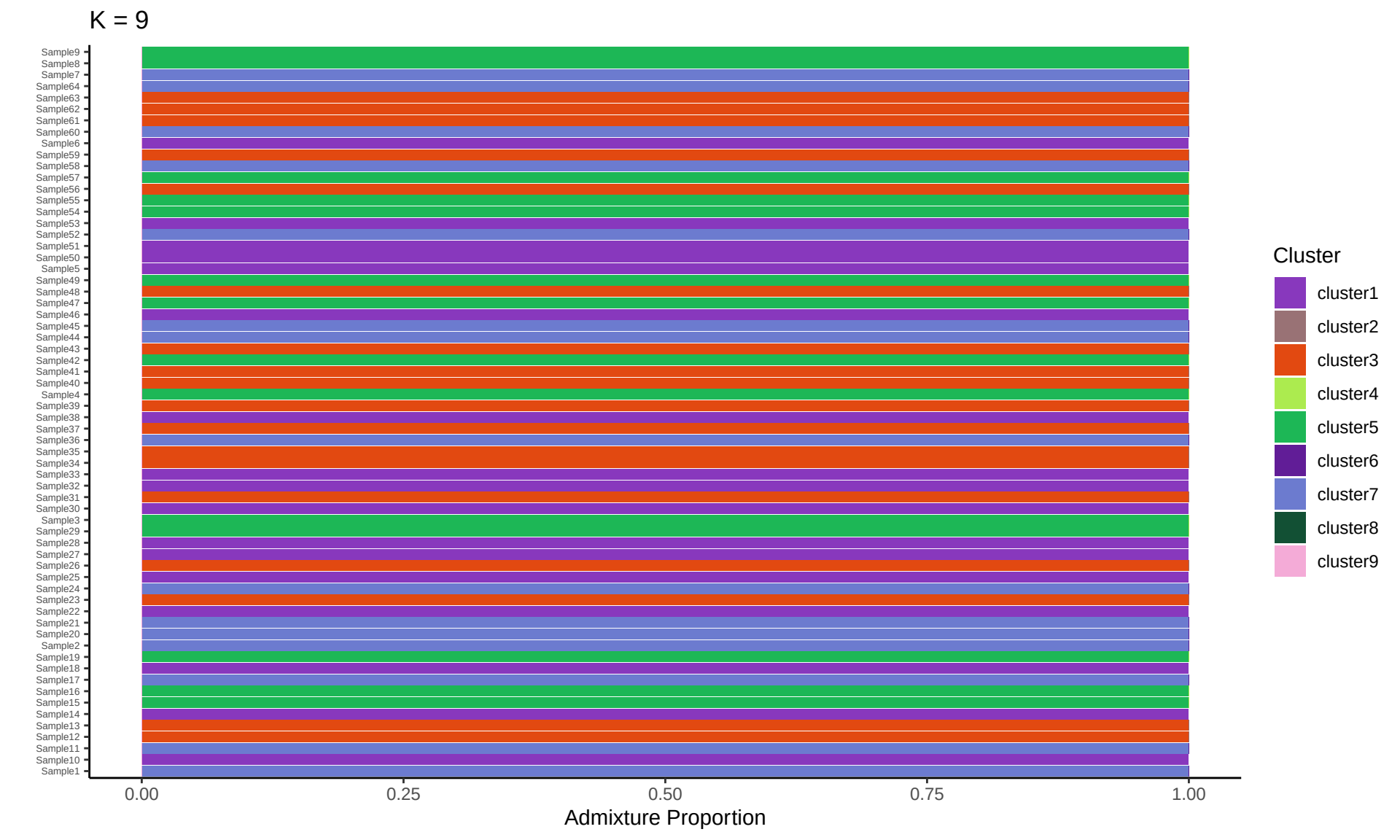

K = 4
Sample9
Sample8
Sample7
Sample64
Sample63
Sample62
Sample61
Sample60
Sample6
Sample59
Sample58
Sample57
Sample56
Sample55
Sample54
Sample53
Sample52
Sample51
Sample50
Sample5
Sample49
Sample48
Sample47
Sample46
Sample45
Sample44
Sample43
Sample42
Sample41
Sample40
Sample4
Sample39
Sample38
Sample37
Sample36
Sample35
Sample34
Sample33
Sample32
Sample31
Sample30
Sample3
Sample29
Sample28
Sample27
Sample26
Sample25
Sample24
Sample23
Sample22
Sample21
Sample20
Sample2
Sample19
Sample18
Sample17
Sample16
Sample15
Sample14
Sample13
Sample12
Sample11
Sample10
Sample1
0.00
0.25
0.50
0.75
1.00
Admixture Proportion
Cluster
cluster1
cluster2
cluster3
cluster4

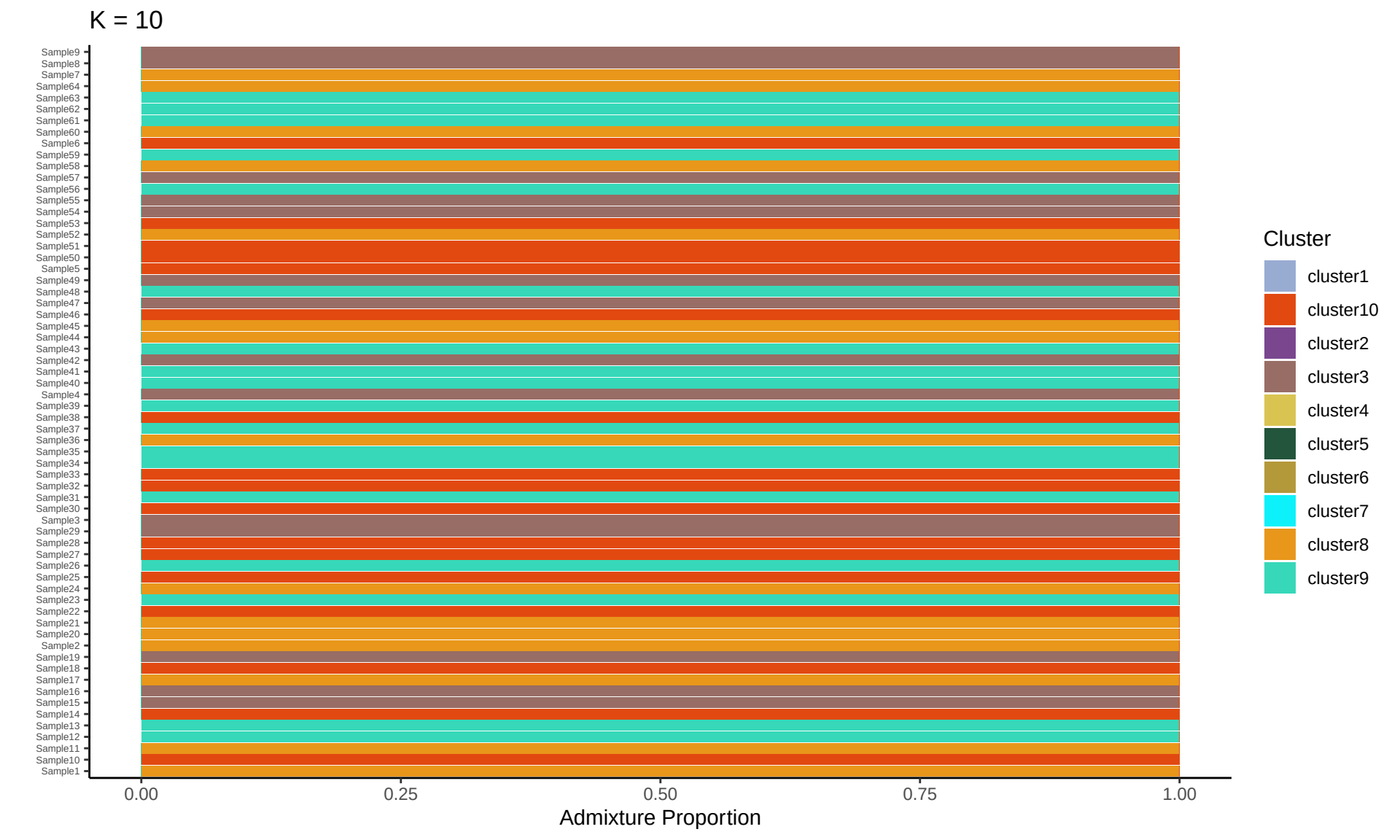

K = 5
Sample9
Sample8
Sample7
Sample64
Sample63
Sample62
Sample61
Sample60
Sample6
Sample59
Sample58
Sample57
Sample56
Sample55
Sample54
Sample53
Sample52
Sample51
Sample50
Sample5
Sample49
Sample48
Sample47
Sample46
Sample45
Sample44
Sample43
Sample42
Sample41
Sample40
Sample4
Sample39
Sample38
Sample37
Sample36
Sample35
Sample34
Sample33
Sample32
Sample31
Sample30
Sample3
Sample29
Sample28
Sample27
Sample26
Sample25
Sample24
Sample23
Sample22
Sample21
Sample20
Sample2
Sample19
Sample18
Sample17
Sample16
Sample15
Sample14
Sample13
Sample12
Sample11
Sample10
Sample1
0.00
0.25
0.50
0.75
1.00
Admixture Proportion
Cluster
cluster1
cluster2
cluster3
cluster4
cluster5

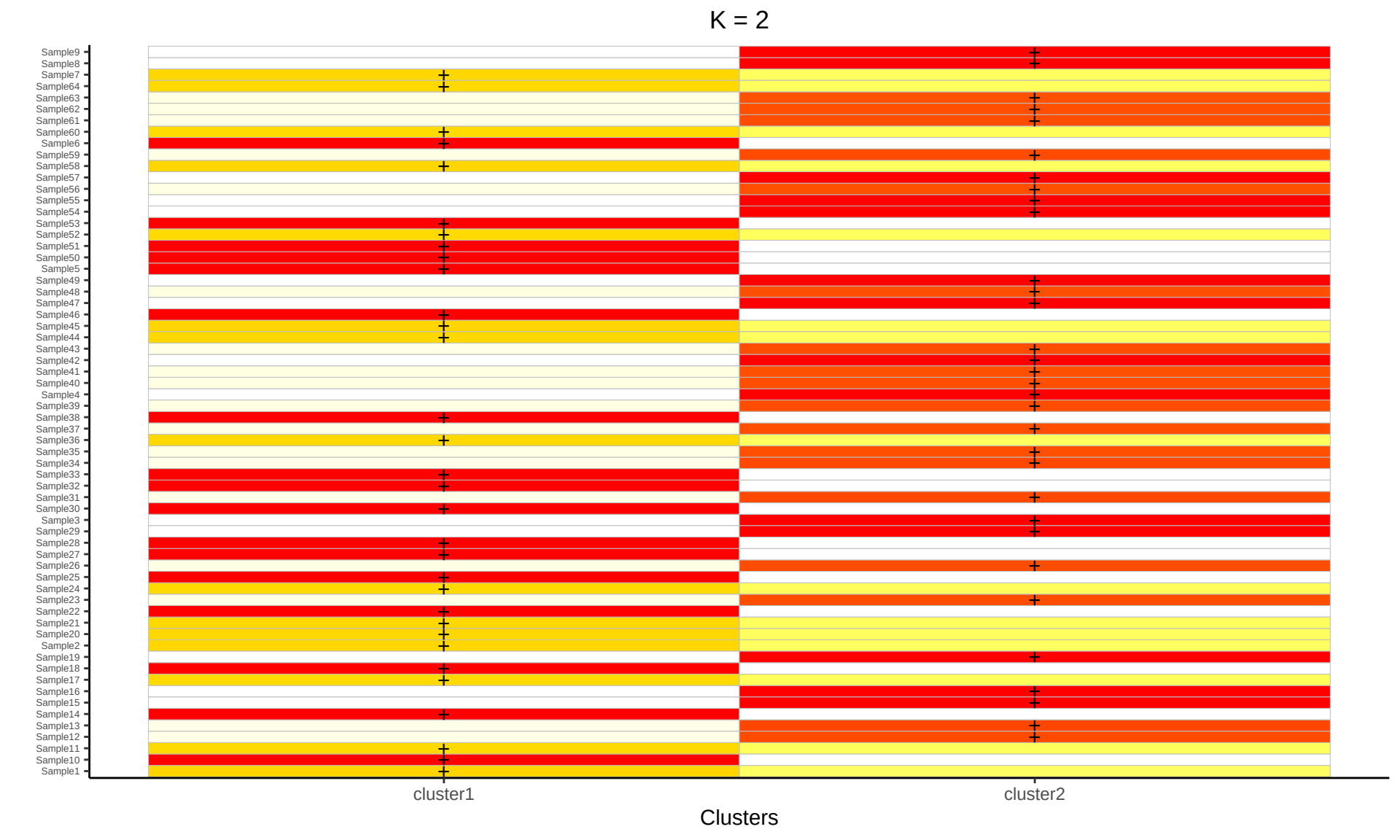

K = 6
Sample9
Sample8
Sample7
Sample64
Sample63
Sample62
Sample61
Sample60
Sample6
Sample59
Sample58
Sample57
Sample56
Sample55
Sample54
Sample53
Sample52
Sample51
Sample50
Sample5
Sample49
Sample48
Sample47
Sample46
Sample45
Sample44
Sample43
Sample42
Sample41
Sample40
Sample4
Sample39
Sample38
Sample37
Sample36
Sample35
Sample34
Sample33
Sample32
Sample31
Sample30
Sample3
Sample29
Sample28
Sample27
Sample26
Sample25
Sample24
Sample23
Sample22
Sample21
Sample20
Sample2
Sample19
Sample18
Sample17
Sample16
Sample15
Sample14
Sample13
Sample12
Sample11
Sample10
Sample1
0.00
0.25
0.50
0.75
1.00
Admixture Proportion
Cluster
cluster1
cluster2
cluster3
cluster4
cluster5
cluster6

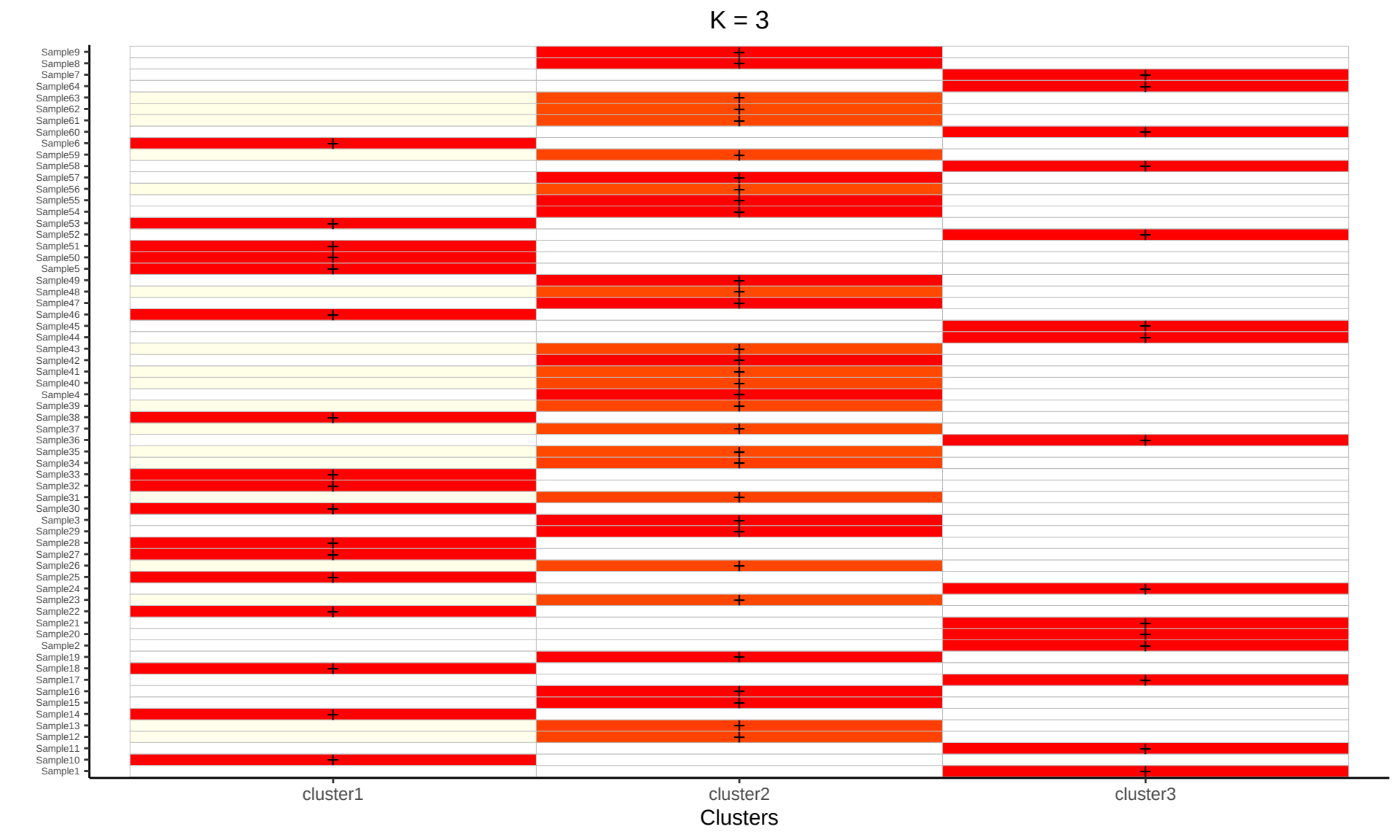

K = 7
Sample9
Sample8
Sample7
Sample64
Sample63
Sample62
Sample61
Sample60
Sample6
Sample59
Sample58
Sample57
Sample56
Sample55
Sample54
Sample53
Sample52
Sample51
Sample50
Sample5
Sample49
Sample48
Sample47
Sample46
Sample45
Sample44
Sample43
Sample42
Sample41
Sample40
Sample4
Sample39
Sample38
Sample37
Sample36
Sample35
Sample34
Sample33
Sample32
Sample31
Sample30
Sample3
Sample29
Sample28
Sample27
Sample26
Sample25
Sample24
Sample23
Sample22
Sample21
Sample20
Sample2
Sample19
Sample18
Sample17
Sample16
Sample15
Sample14
Sample13
Sample12
Sample11
Sample10
Sample1
0.00
0.25
0.50
0.75
1.00
Admixture Proportion
Cluster
cluster1
cluster2
cluster3
cluster4
cluster5
cluster6
cluster7

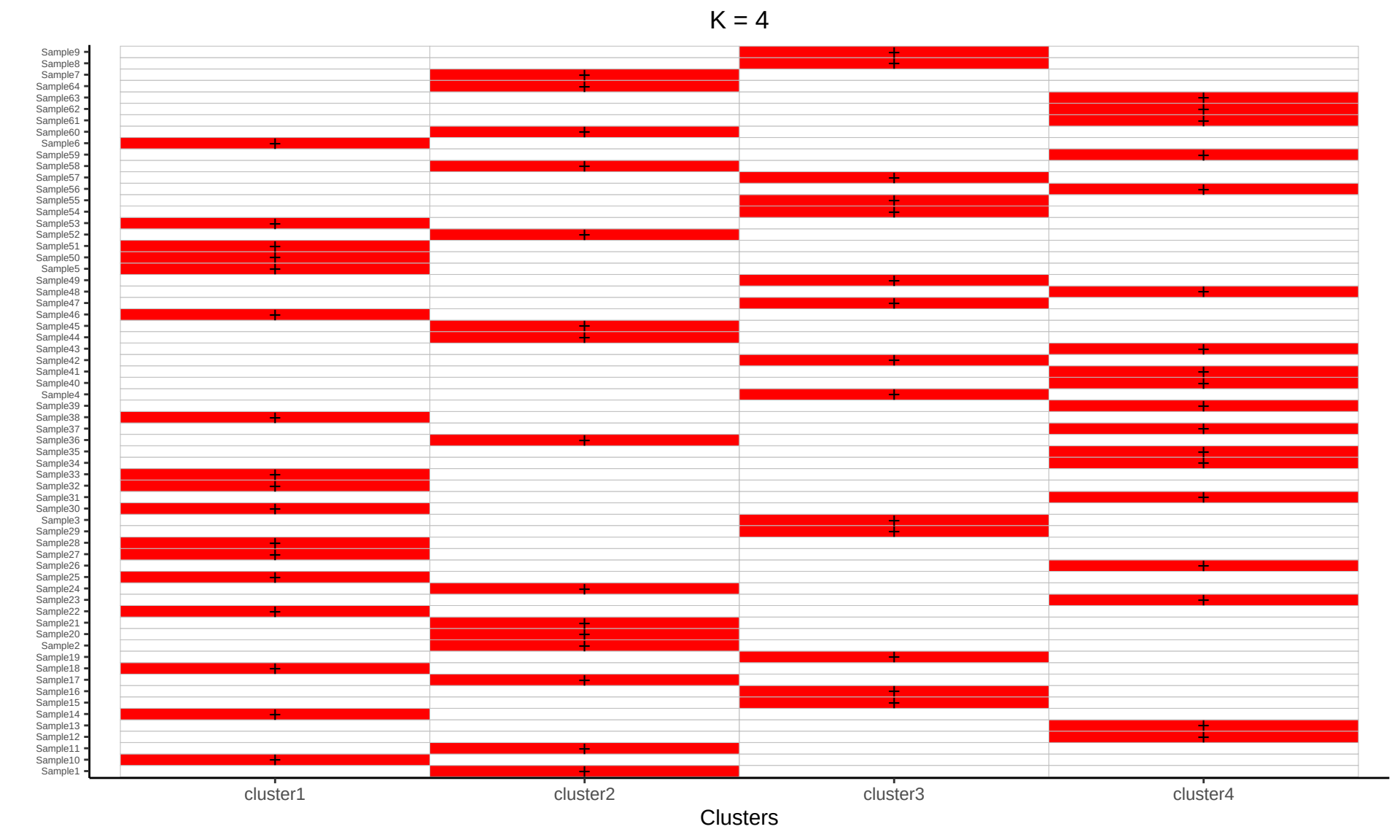

K = 8
Sample9
Sample8
Sample7
Sample64
Sample63
Sample62
Sample61
Sample60
Sample6
Sample59
Sample58
Sample57
Sample56
Sample55
Sample54
Sample53
Sample52
Sample51
Sample50
Sample5
Sample49
Sample48
Sample47
Sample46
Sample45
Sample44
Sample43
Sample42
Sample41
Sample40
Sample4
Sample39
Sample38
Sample37
Sample36
Sample35
Sample34
Sample33
Sample32
Sample31
Sample30
Sample3
Sample29
Sample28
Sample27
Sample26
Sample25
Sample24
Sample23
Sample22
Sample21
Sample20
Sample2
Sample19
Sample18
Sample17
Sample16
Sample15
Sample14
Sample13
Sample12
Sample11
Sample10
Sample1
0.00
0.25
0.50
0.75
1.00
Admixture Proportion
Cluster
cluster1
cluster2
cluster3
cluster4
cluster5
cluster6
cluster7
cluster8

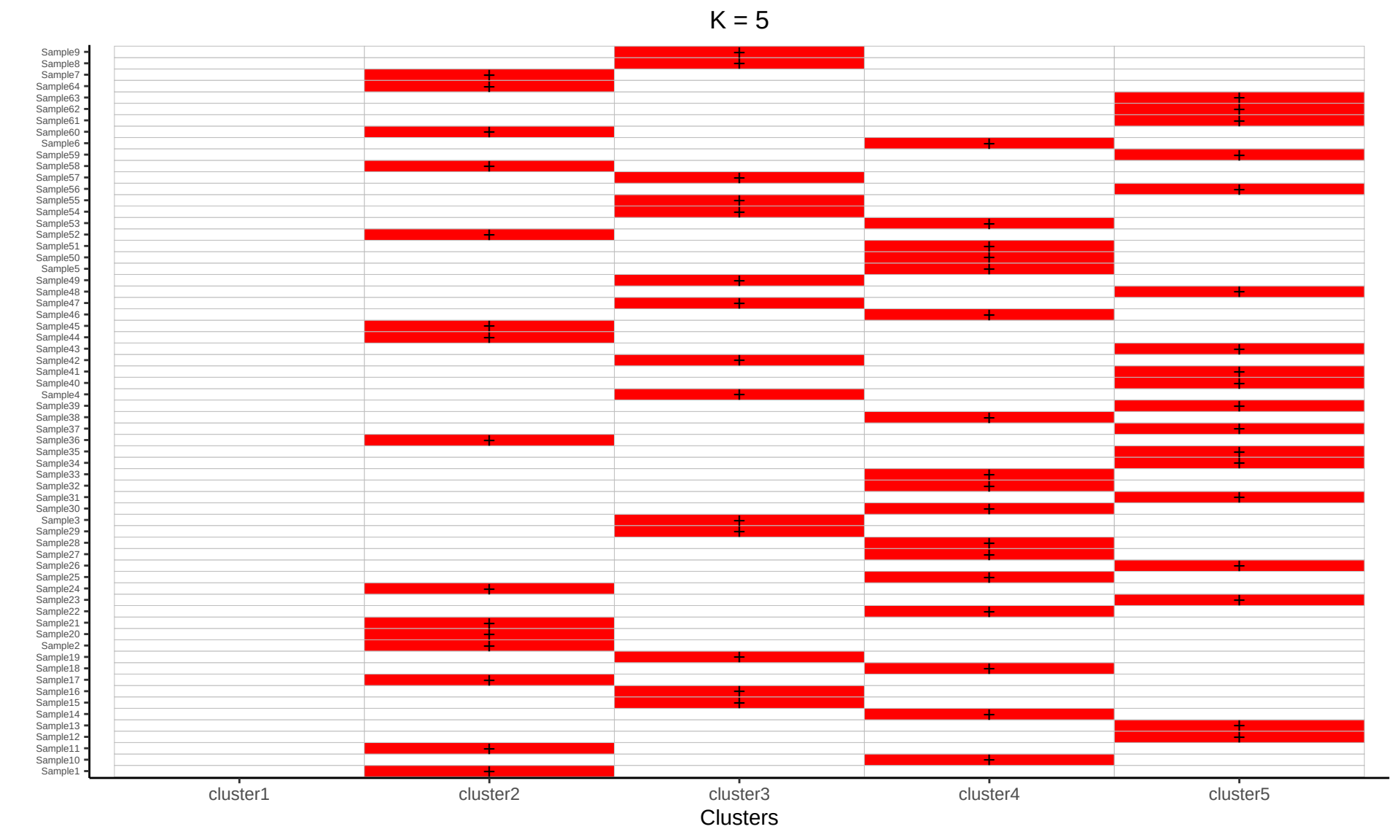

K = 9
Sample9
Sample8
Sample7
Sample64
Sample63
Sample62
Sample61
Sample60
Sample6
Sample59
Sample58
Sample57
Sample56
Sample55
Sample54
Sample53
Sample52
Sample51
Sample50
Sample5
Sample49
Sample48
Sample47
Sample46
Sample45
Sample44
Sample43
Sample42
Sample41
Sample40
Sample4
Sample39
Sample38
Sample37
Sample36
Sample35
Sample34
Sample33
Sample32
Sample31
Sample30
Sample3
Sample29
Sample28
Sample27
Sample26
Sample25
Sample24
Sample23
Sample22
Sample21
Sample20
Sample2
Sample19
Sample18
Sample17
Sample16
Sample15
Sample14
Sample13
Sample12
Sample11
Sample10
Sample1
0.00
0.25
0.50
0.75
1.00
Admixture Proportion
Cluster
cluster1
cluster2
cluster3
cluster4
cluster5
cluster6
cluster7
cluster8
cluster9

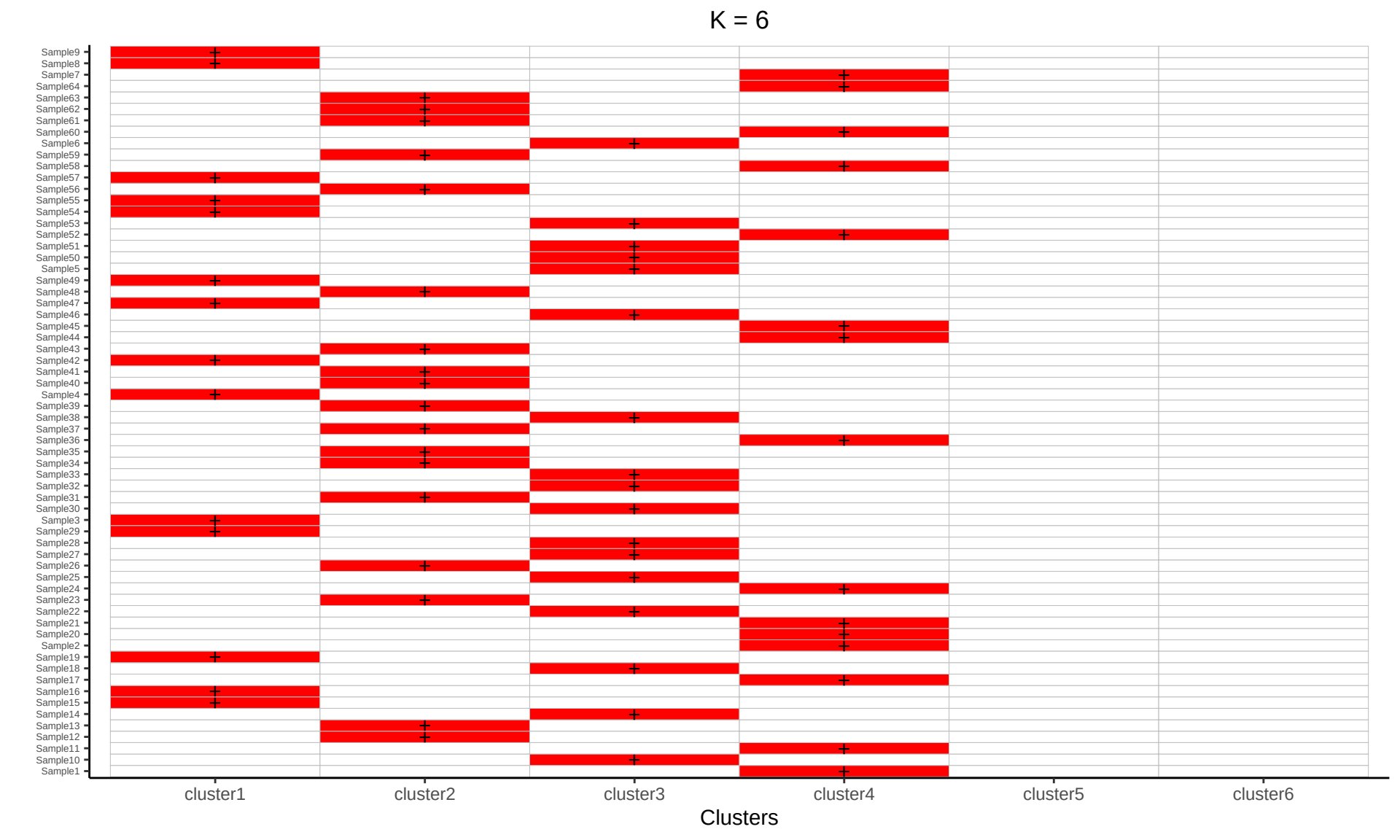

K = 10
Sample9
Sample8
Sample7
Sample64
Sample63
Sample62
Sample61
Sample60
Sample6
Sample59
Sample58
Sample57
Sample56
Sample55
Sample54
Sample53
Sample52
Sample51
Sample50
Sample5
Sample49
Sample48
Sample47
Sample46
Sample45
Sample44
Sample43
Sample42
Sample41
Sample40
Sample4
Sample39
Sample38
Sample37
Sample36
Sample35
Sample34
Sample33
Sample32
Sample31
Sample30
Sample3
Sample29
Sample28
Sample27
Sample26
Sample25
Sample24
Sample23
Sample22
Sample21
Sample20
Sample2
Sample19
Sample18
Sample17
Sample16
Sample15
Sample14
Sample13
Sample12
Sample11
Sample10
Sample1
0.00
0.25
0.50
0.75
1.00
Admixture Proportion
Cluster
cluster1
cluster10
cluster2
cluster3
cluster4
cluster5
cluster6
cluster7
cluster8
cluster9

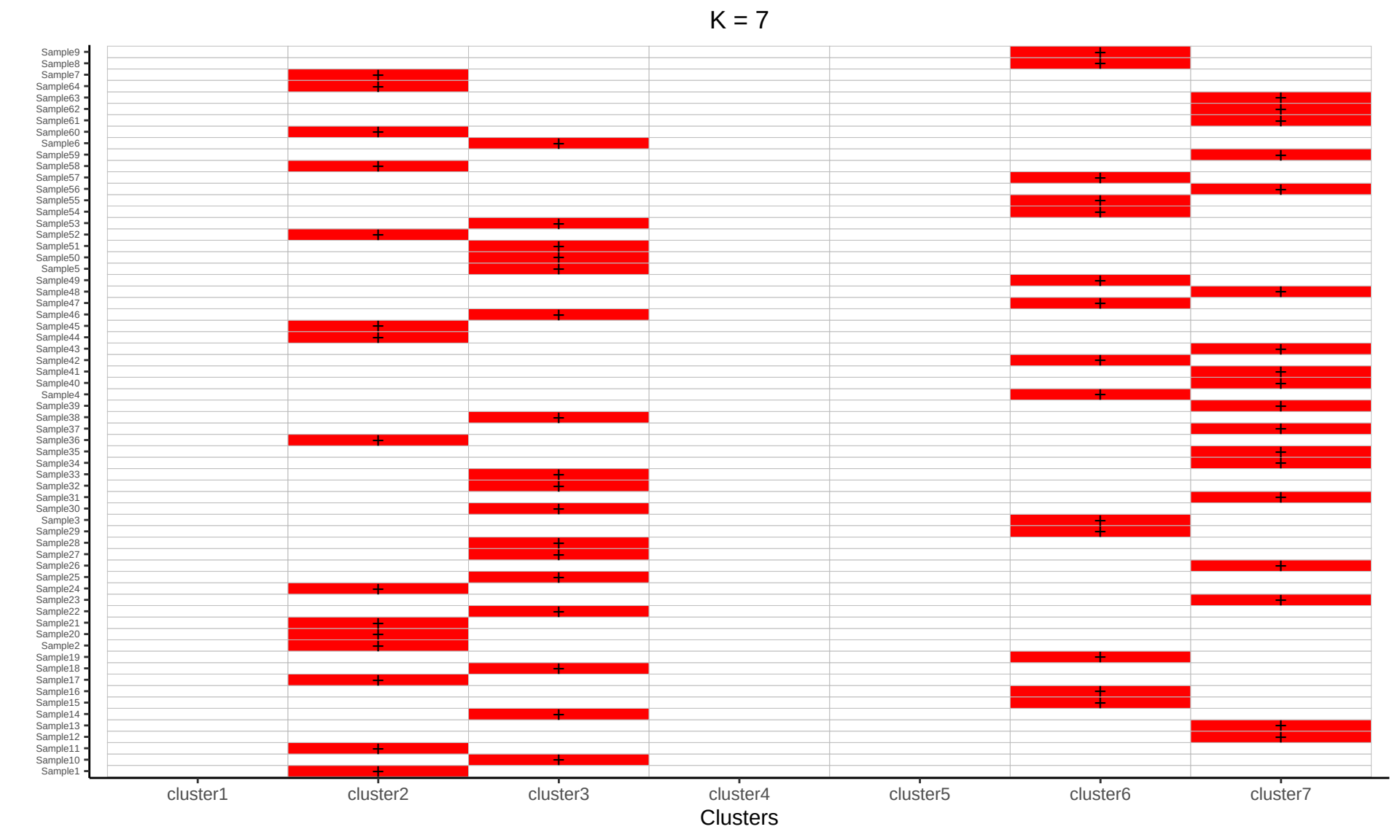

K = 2
Sample9
Sample8
Sample7
Sample64
Sample63
Sample62
Sample61
Sample60
Sample6
Sample59
Sample58
Sample57
Sample56
Sample55
Sample54
Sample53
Sample52
Sample51
Sample50
Sample5
Sample49
Sample48
Sample47
Sample46
Sample45
Sample44
Sample43
Sample42
Sample41
Sample40
Sample4
Sample39
Sample38
Sample37
Sample36
Sample35
Sample34
Sample33
Sample32
Sample31
Sample30
Sample3
Sample29
Sample28
Sample27
Sample26
Sample25
Sample24
Sample23
Sample22
Sample21
Sample20
Sample2
Sample19
Sample18
Sample17
Sample16
Sample15
Sample14
Sample13
Sample12
Sample11
Sample10
Sample1
cluster1
cluster2
Clusters

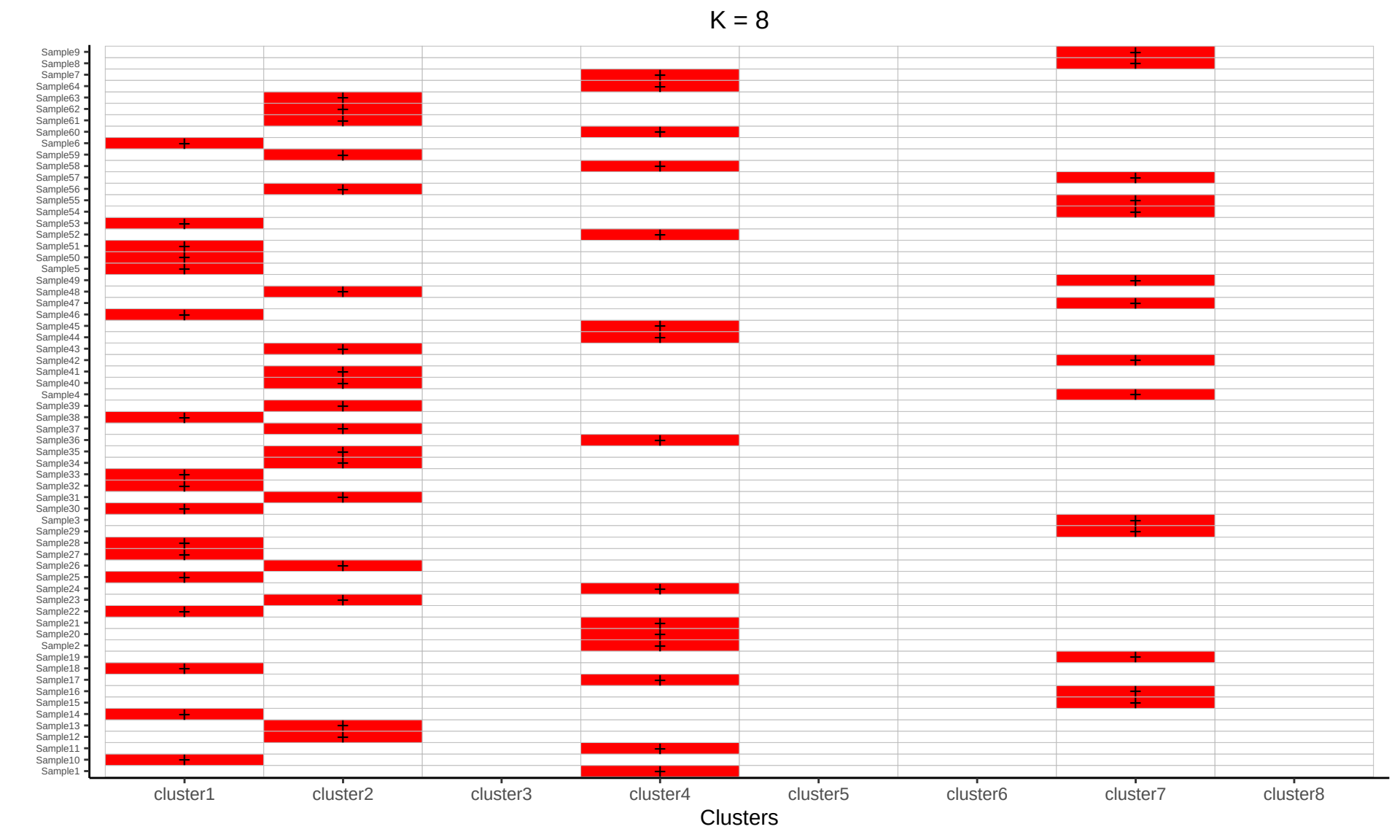

K = 3
Sample9
Sample8
Sample7
Sample64
Sample63
Sample62
Sample61
Sample60
Sample6
Sample59
Sample58
Sample57
Sample56
Sample55
Sample54
Sample53
Sample52
Sample51
Sample50
Sample5
Sample49
Sample48
Sample47
Sample46
Sample45
Sample44
Sample43
Sample42
Sample41
Sample40
Sample4
Sample39
Sample38
Sample37
Sample36
Sample35
Sample34
Sample33
Sample32
Sample31
Sample30
Sample3
Sample29
Sample28
Sample27
Sample26
Sample25
Sample24
Sample23
Sample22
Sample21
Sample20
Sample2
Sample19
Sample18
Sample17
Sample16
Sample15
Sample14
Sample13
Sample12
Sample11
Sample10
Sample1
cluster1
cluster2
cluster3
Clusters

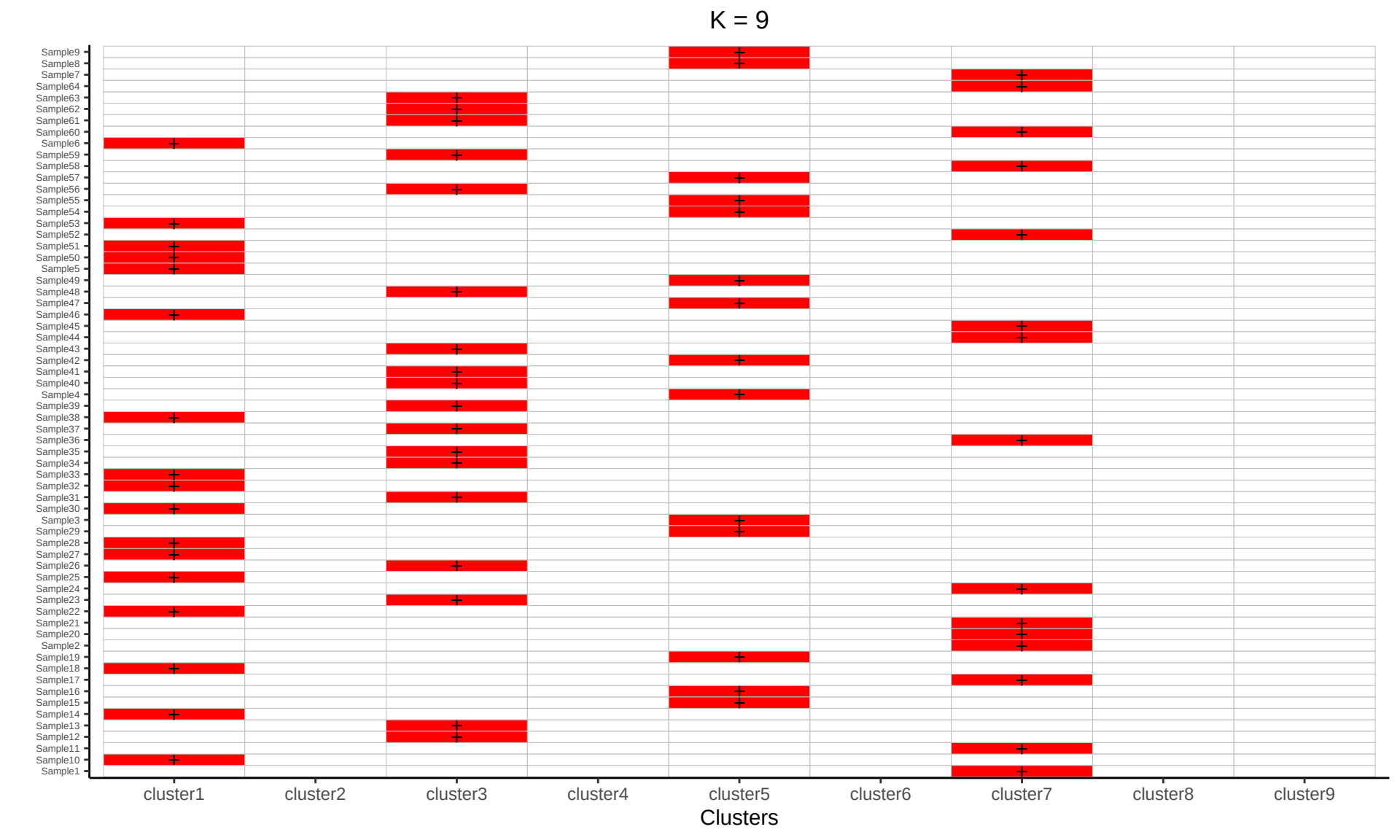

K = 4
Sample9
Sample8
Sample7
Sample64
Sample63
Sample62
Sample61
Sample60
Sample6
Sample59
Sample58
Sample57
Sample56
Sample55
Sample54
Sample53
Sample52
Sample51
Sample50
Sample5
Sample49
Sample48
Sample47
Sample46
Sample45
Sample44
Sample43
Sample42
Sample41
Sample40
Sample4
Sample39
Sample38
Sample37
Sample36
Sample35
Sample34
Sample33
Sample32
Sample31
Sample30
Sample3
Sample29
Sample28
Sample27
Sample26
Sample25
Sample24
Sample23
Sample22
Sample21
Sample20
Sample2
Sample19
Sample18
Sample17
Sample16
Sample15
Sample14
Sample13
Sample12
Sample11
Sample10
Sample1
cluster1
cluster2
cluster3
cluster4
Clusters

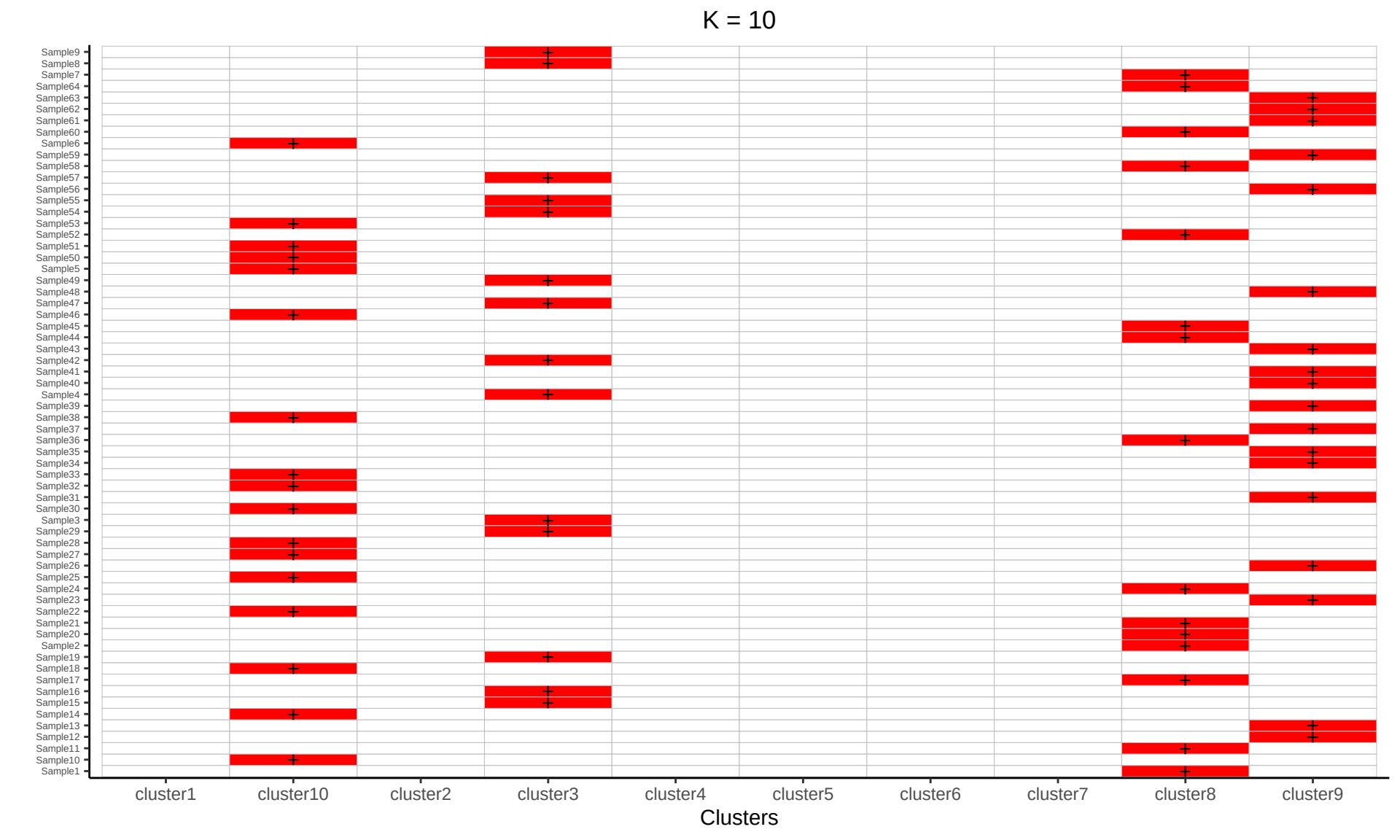

K = 5
Sample9
Sample8
Sample7
Sample64
Sample63
Sample62
Sample61
Sample60
Sample6
Sample59
Sample58
Sample57
Sample56
Sample55
Sample54
Sample53
Sample52
Sample51
Sample50
Sample5
Sample49
Sample48
Sample47
Sample46
Sample45
Sample44
Sample43
Sample42
Sample41
Sample40
Sample4
Sample39
Sample38
Sample37
Sample36
Sample35
Sample34
Sample33
Sample32
Sample31
Sample30
Sample3
Sample29
Sample28
Sample27
Sample26
Sample25
Sample24
Sample23
Sample22
Sample21
Sample20
Sample2
Sample19
Sample18
Sample17
Sample16
Sample15
Sample14
Sample13
Sample12
Sample11
Sample10
Sample1
cluster1
cluster2
cluster3
cluster4
cluster5
Clusters


K = 6
Sample9
Sample8
Sample7
Sample64
Sample63
Sample62
Sample61
Sample60
Sample6
Sample59
Sample58
Sample57
Sample56
Sample55
Sample54
Sample53
Sample52
Sample51
Sample50
Sample5
Sample49
Sample48
Sample47
Sample46
Sample45
Sample44
Sample43
Sample42
Sample41
Sample40
Sample4
Sample39
Sample38
Sample37
Sample36
Sample35
Sample34
Sample33
Sample32
Sample31
Sample30
Sample3
Sample29
Sample28
Sample27
Sample26
Sample25
Sample24
Sample23
Sample22
Sample21
Sample20
Sample2
Sample19
Sample18
Sample17
Sample16
Sample15
Sample14
Sample13
Sample12
Sample11
Sample10
Sample1
cluster1
cluster2
cluster3
cluster4
cluster5
cluster6
Clusters


K = 7
Sample9
Sample8
Sample7
Sample64
Sample63
Sample62
Sample61
Sample60
Sample6
Sample59
Sample58
Sample57
Sample56
Sample55
Sample54
Sample53
Sample52
Sample51
Sample50
Sample5
Sample49
Sample48
Sample47
Sample46
Sample45
Sample44
Sample43
Sample42
Sample41
Sample40
Sample4
Sample39
Sample38
Sample37
Sample36
Sample35
Sample34
Sample33
Sample32
Sample31
Sample30
Sample3
Sample29
Sample28
Sample27
Sample26
Sample25
Sample24
Sample23
Sample22
Sample21
Sample20
Sample2
Sample19
Sample18
Sample17
Sample16
Sample15
Sample14
Sample13
Sample12
Sample11
Sample10
Sample1
cluster1
cluster2
cluster3
cluster4
cluster5
cluster6
cluster7
Clusters


K = 8
Sample9
Sample8
Sample7
Sample64
Sample63
Sample62
Sample61
Sample60
Sample6
Sample59
Sample58
Sample57
Sample56
Sample55
Sample54
Sample53
Sample52
Sample51
Sample50
Sample5
Sample49
Sample48
Sample47
Sample46
Sample45
Sample44
Sample43
Sample42
Sample41
Sample40
Sample4
Sample39
Sample38
Sample37
Sample36
Sample35
Sample34
Sample33
Sample32
Sample31
Sample30
Sample3
Sample29
Sample28
Sample27
Sample26
Sample25
Sample24
Sample23
Sample22
Sample21
Sample20
Sample2
Sample19
Sample18
Sample17
Sample16
Sample15
Sample14
Sample13
Sample12
Sample11
Sample10
Sample1
cluster1
cluster2
cluster3
cluster4
cluster5
cluster6
cluster7
cluster8
Clusters


K = 9
Sample9
Sample8
Sample7
Sample64
Sample63
Sample62
Sample61
Sample60
Sample6
Sample59
Sample58
Sample57
Sample56
Sample55
Sample54
Sample53
Sample52
Sample51
Sample50
Sample5
Sample49
Sample48
Sample47
Sample46
Sample45
Sample44
Sample43
Sample42
Sample41
Sample40
Sample4
Sample39
Sample38
Sample37
Sample36
Sample35
Sample34
Sample33
Sample32
Sample31
Sample30
Sample3
Sample29
Sample28
Sample27
Sample26
Sample25
Sample24
Sample23
Sample22
Sample21
Sample20
Sample2
Sample19
Sample18
Sample17
Sample16
Sample15
Sample14
Sample13
Sample12
Sample11
Sample10
Sample1
cluster1
cluster2
cluster3
cluster4
cluster5
cluster6
cluster7
cluster8
cluster9
Clusters


K = 10
Sample9
Sample8
Sample7
Sample64
Sample63
Sample62
Sample61
Sample60
Sample6
Sample59
Sample58
Sample57
Sample56
Sample55
Sample54
Sample53
Sample52
Sample51
Sample50
Sample5
Sample49
Sample48
Sample47
Sample46
Sample45
Sample44
Sample43
Sample42
Sample41
Sample40
Sample4
Sample39
Sample38
Sample37
Sample36
Sample35
Sample34
Sample33
Sample32
Sample31
Sample30
Sample3
Sample29
Sample28
Sample27
Sample26
Sample25
Sample24
Sample23
Sample22
Sample21
Sample20
Sample2
Sample19
Sample18
Sample17
Sample16
Sample15
Sample14
Sample13
Sample12
Sample11
Sample10
Sample1
cluster1
cluster10
cluster2
cluster3
cluster4
cluster5
cluster6
cluster7
cluster8
cluster9
Clusters