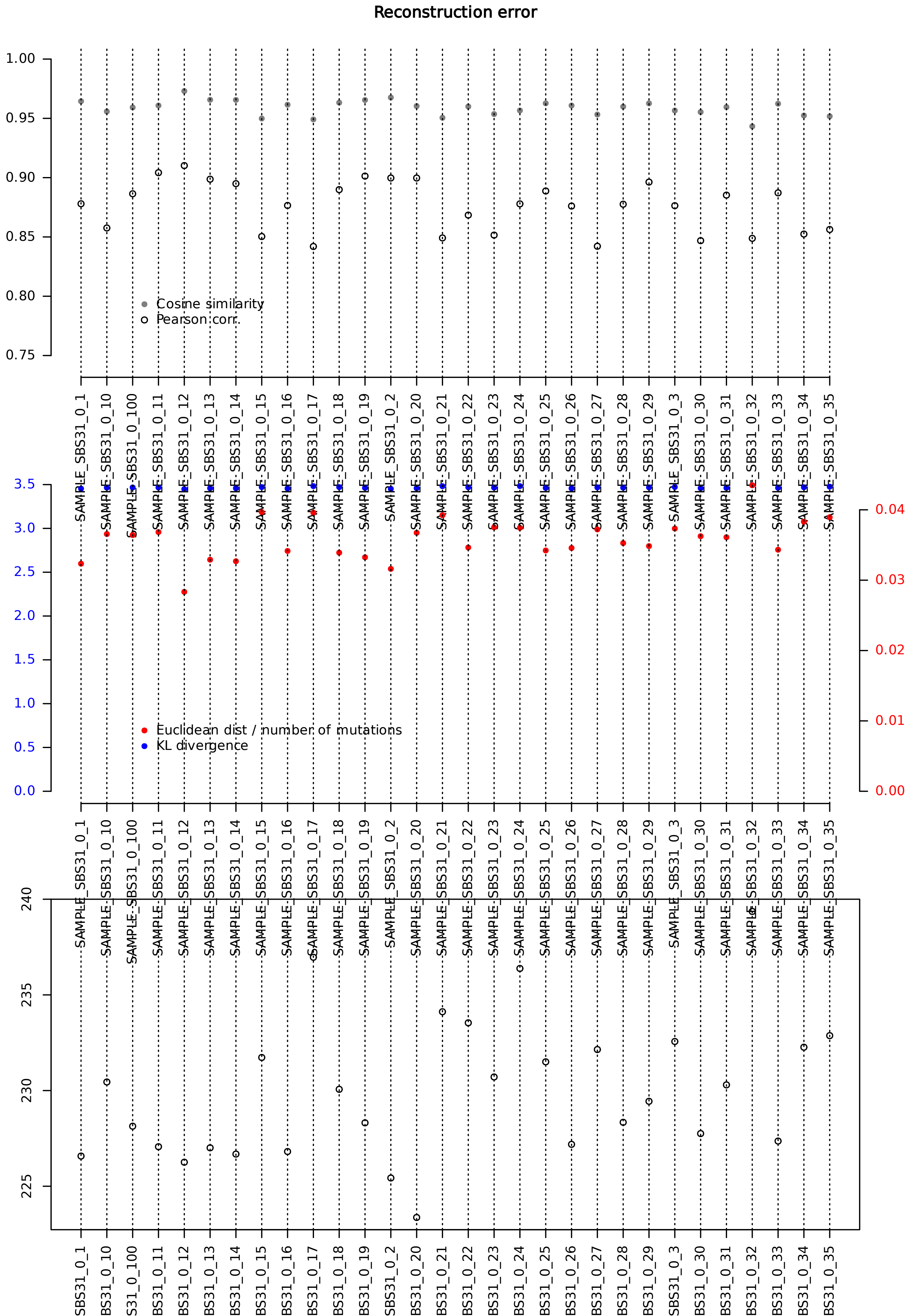
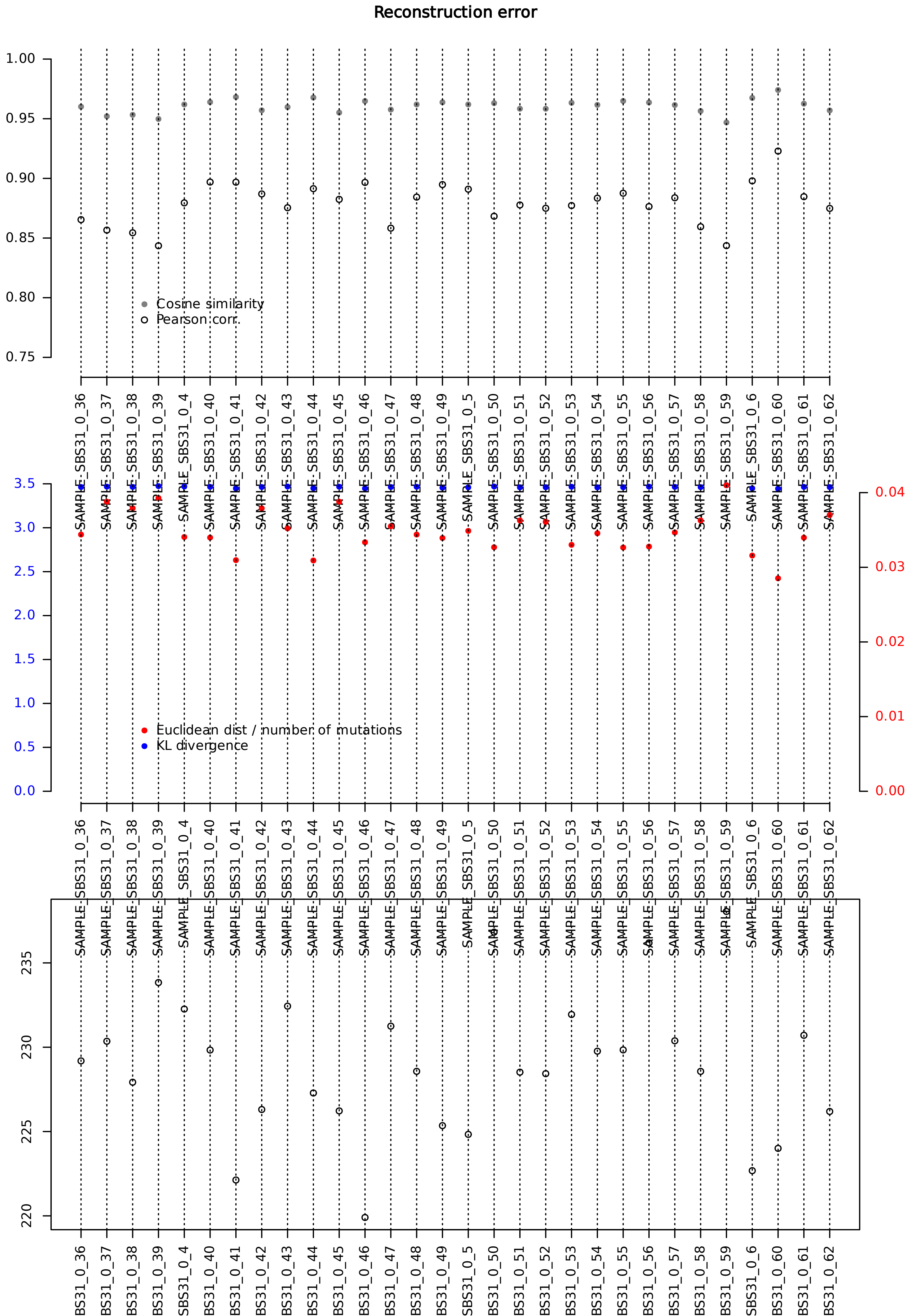
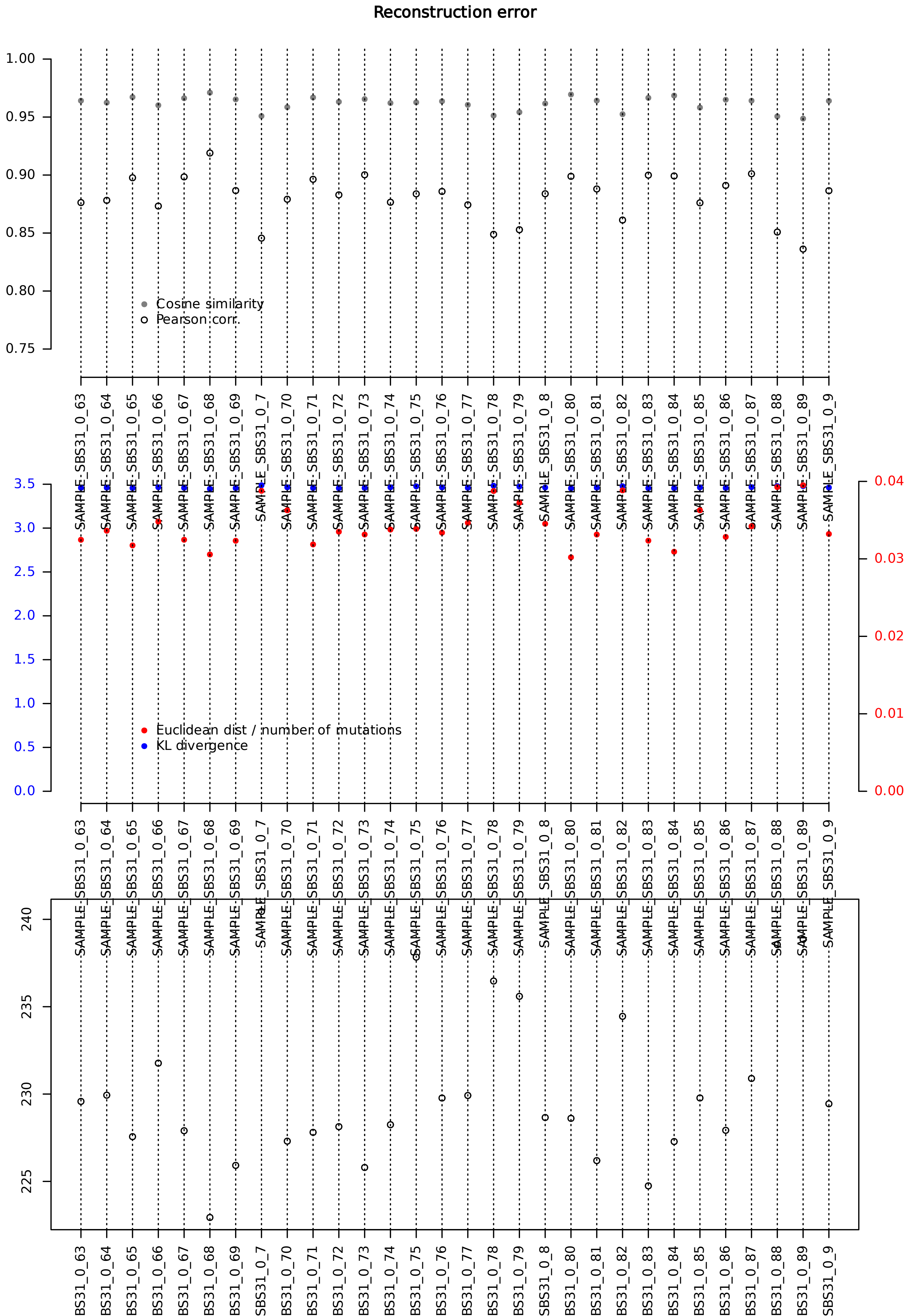
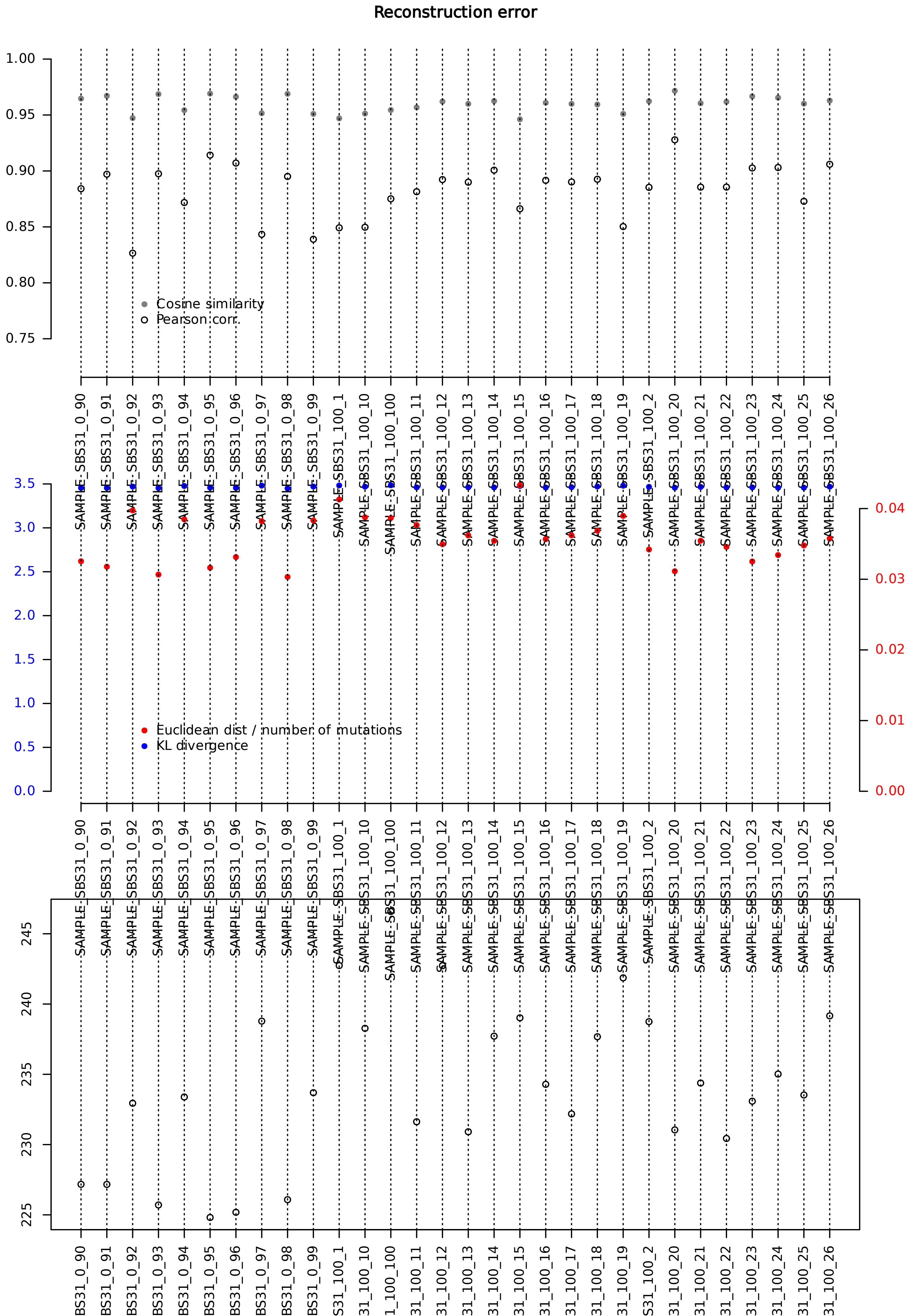
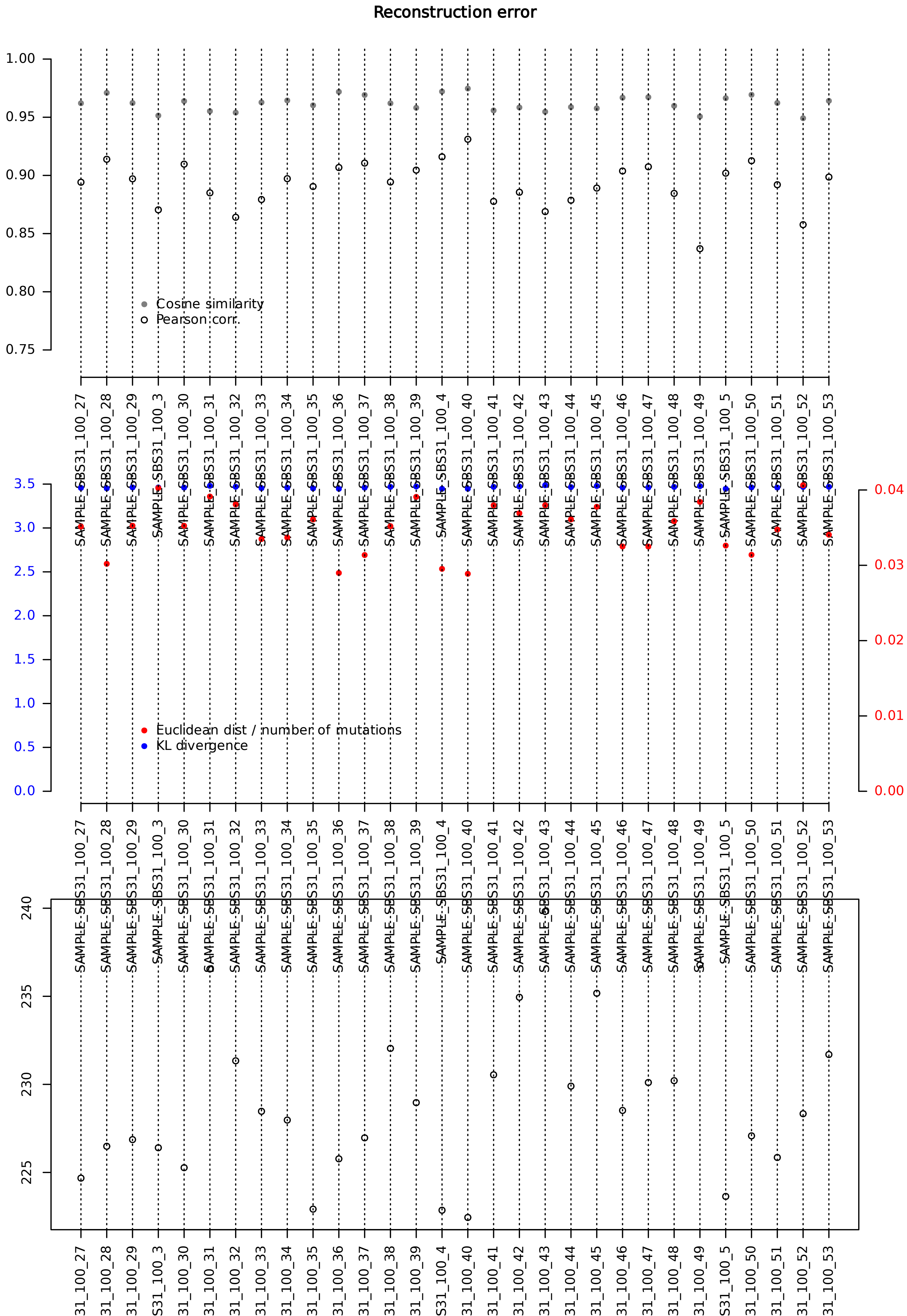
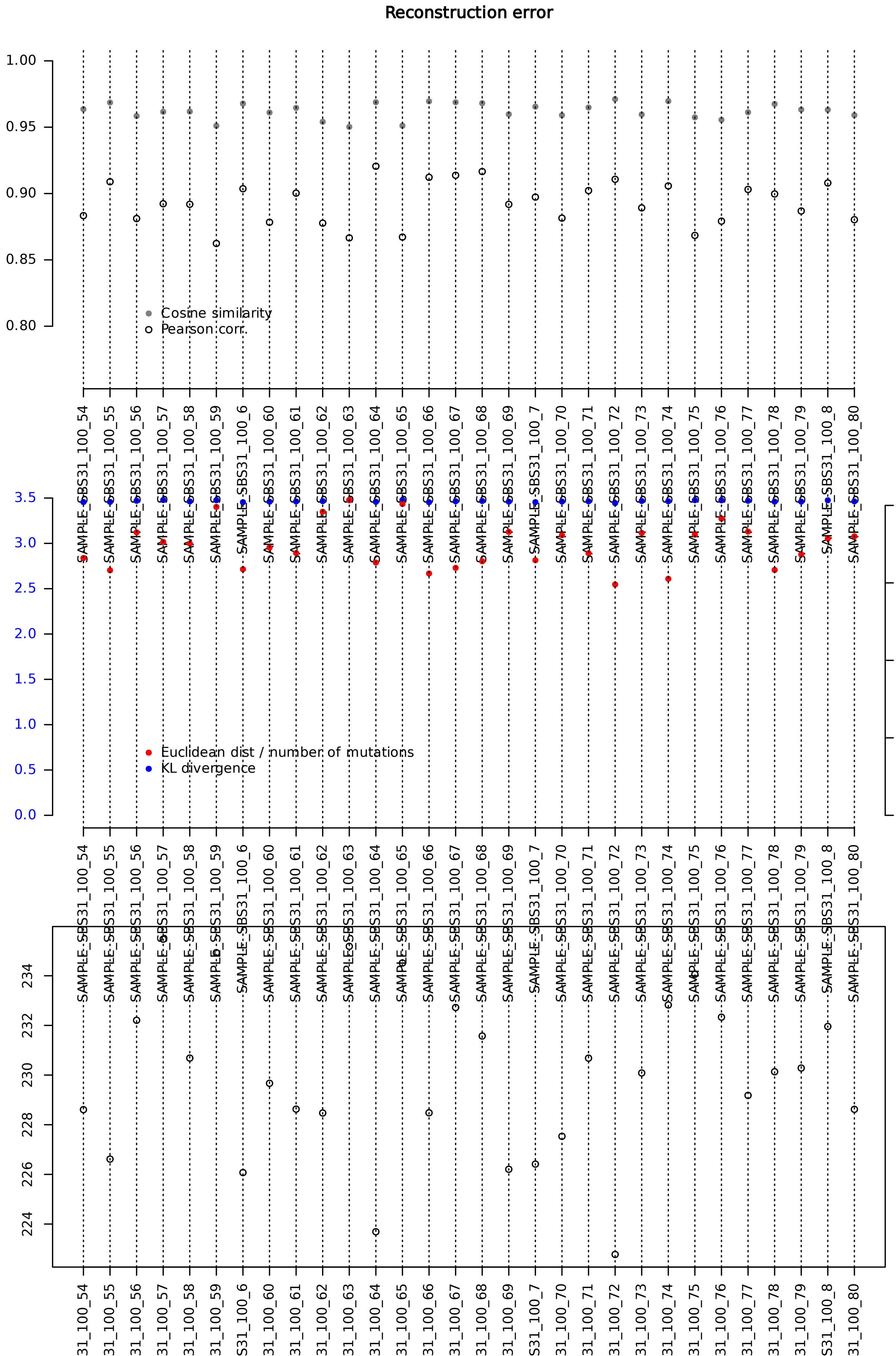

Reconstruction error
1.00
0.95
0.90
0.85
0.80
0.75
● Cosine similarity
○ Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
● Euclidean dist / number of mutations
● KL divergence
240
235
230
225
SAMPLE_SBS31_0_1
SAMPLE_SBS31_0_10
SAMPLE_SBS31_0_100
SAMPLE_SBS31_0_11
SAMPLE_SBS31_0_12
SAMPLE_SBS31_0_13
SAMPLE_SBS31_0_14
SAMPLE_SBS31_0_15
SAMPLE_SBS31_0_16
SAMPLE_SBS31_0_17
SAMPLE_SBS31_0_18
SAMPLE_SBS31_0_19
SAMPLE_SBS31_0_2
SAMPLE_SBS31_0_20
SAMPLE_SBS31_0_21
SAMPLE_SBS31_0_22
SAMPLE_SBS31_0_23
SAMPLE_SBS31_0_24
SAMPLE_SBS31_0_25
SAMPLE_SBS31_0_26
SAMPLE_SBS31_0_27
SAMPLE_SBS31_0_28
SAMPLE_SBS31_0_29
SAMPLE_SBS31_0_3
SAMPLE_SBS31_0_30
SAMPLE_SBS31_0_31
SAMPLE_SBS31_0_32
SAMPLE_SBS31_0_33
SAMPLE_SBS31_0_34
SAMPLE_SBS31_0_35

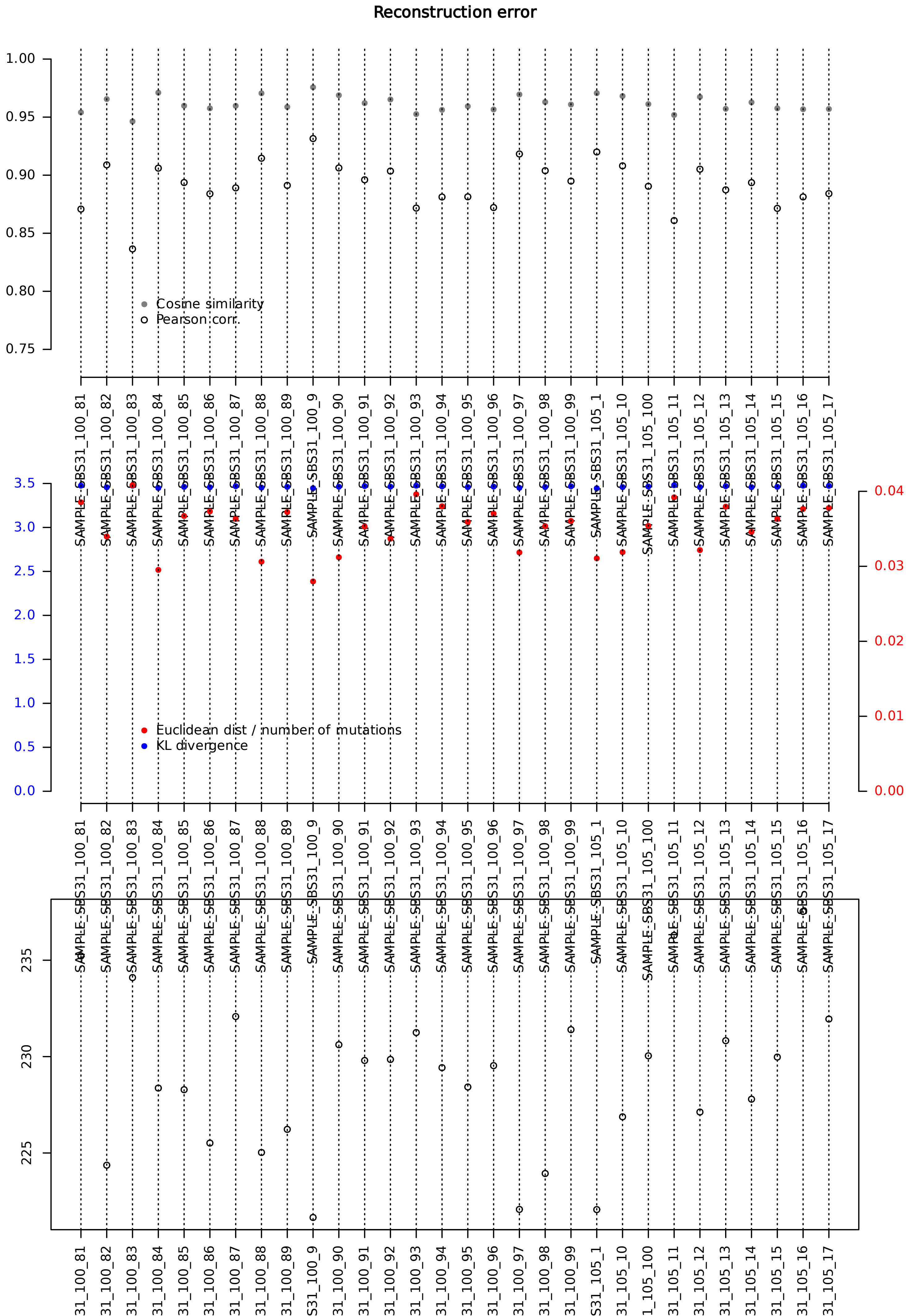

Reconstruction error
1.00
0.95
0.90
0.85
0.80
0.75
● Cosine similarity
○ Pearson corr.
SAMPLE_SBS31_0_36
SAMPLE_SBS31_0_37
SAMPLE_SBS31_0_38
SAMPLE_SBS31_0_39
SAMPLE_SBS31_0_4
SAMPLE_SBS31_0_40
SAMPLE_SBS31_0_41
SAMPLE_SBS31_0_42
SAMPLE_SBS31_0_43
SAMPLE_SBS31_0_44
SAMPLE_SBS31_0_45
SAMPLE_SBS31_0_46
SAMPLE_SBS31_0_47
SAMPLE_SBS31_0_48
SAMPLE_SBS31_0_49
SAMPLE_SBS31_0_5
SAMPLE_SBS31_0_50
SAMPLE_SBS31_0_51
SAMPLE_SBS31_0_52
SAMPLE_SBS31_0_53
SAMPLE_SBS31_0_54
SAMPLE_SBS31_0_55
SAMPLE_SBS31_0_56
SAMPLE_SBS31_0_57
SAMPLE_SBS31_0_58
SAMPLE_SBS31_0_59
SAMPLE_SBS31_0_6
SAMPLE_SBS31_0_60
SAMPLE_SBS31_0_61
SAMPLE_SBS31_0_62
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
● Euclidean dist / number of mutations
● KL divergence
235
230
225
220
BS31_0_36
BS31_0_37
BS31_0_38
BS31_0_39
SBS31_0_4
BS31_0_40
BS31_0_41
BS31_0_42
BS31_0_43
BS31_0_44
BS31_0_45
BS31_0_46
BS31_0_47
BS31_0_48
BS31_0_49
SBS31_0_5
BS31_0_50
BS31_0_51
BS31_0_52
BS31_0_53
BS31_0_54
BS31_0_55
BS31_0_56
BS31_0_57
BS31_0_58
BS31_0_59
SBS31_0_6
BS31_0_60
BS31_0_61
BS31_0_62

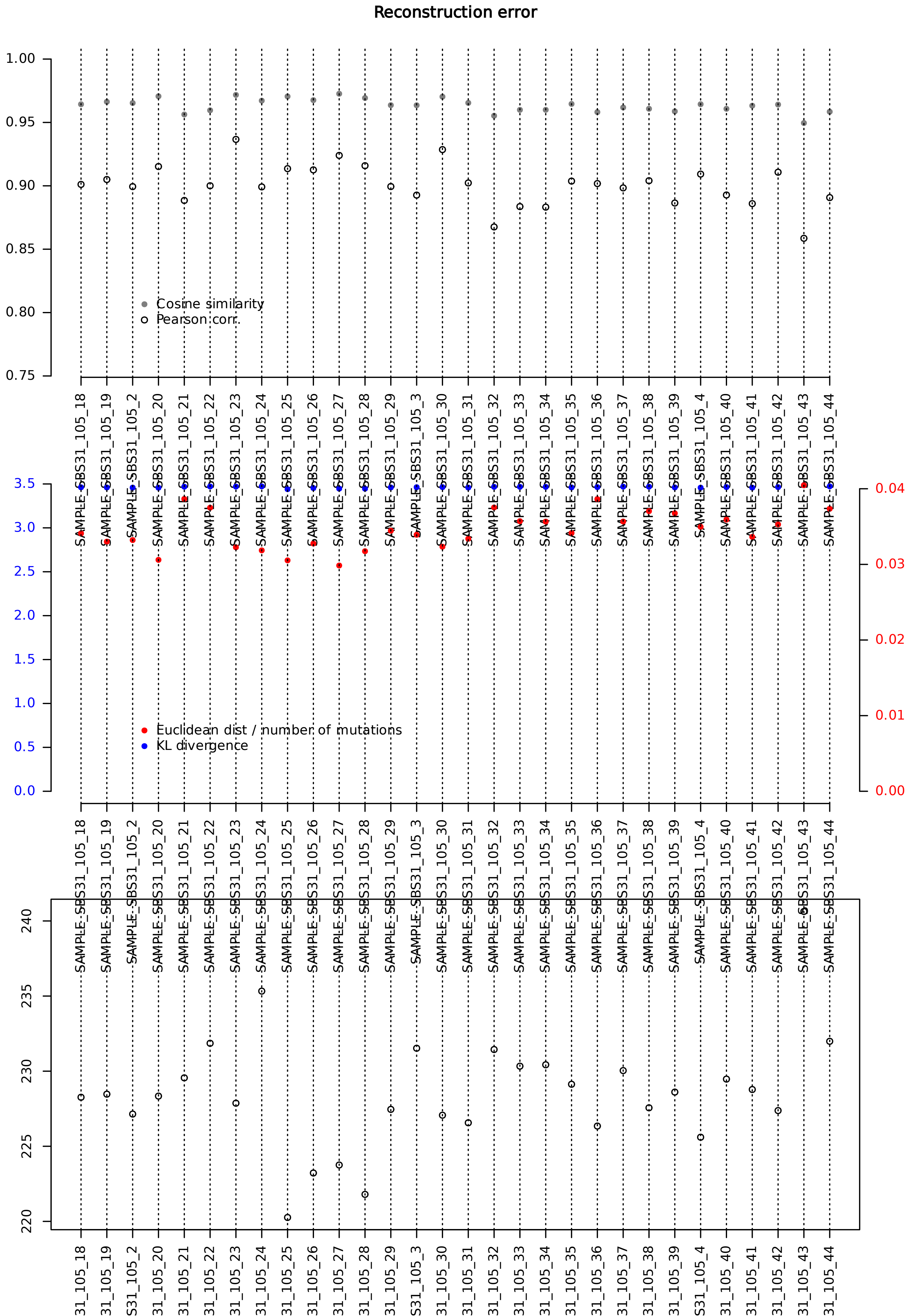

Reconstruction error
1.00
0.95
0.90
0.85
0.80
0.75
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
240
235
230
225
SAMPLE_SBS31_0_63
SAMPLE_SBS31_0_64
SAMPLE_SBS31_0_65
SAMPLE_SBS31_0_66
SAMPLE_SBS31_0_67
SAMPLE_SBS31_0_68
SAMPLE_SBS31_0_69
SAMPLE_SBS31_0_7
SAMPLE_SBS31_0_70
SAMPLE_SBS31_0_71
SAMPLE_SBS31_0_72
SAMPLE_SBS31_0_73
SAMPLE_SBS31_0_74
SAMPLE_SBS31_0_75
SAMPLE_SBS31_0_76
SAMPLE_SBS31_0_77
SAMPLE_SBS31_0_78
SAMPLE_SBS31_0_79
SAMPLE_SBS31_0_8
SAMPLE_SBS31_0_80
SAMPLE_SBS31_0_81
SAMPLE_SBS31_0_82
SAMPLE_SBS31_0_83
SAMPLE_SBS31_0_84
SAMPLE_SBS31_0_85
SAMPLE_SBS31_0_86
SAMPLE_SBS31_0_87
SAMPLE_SBS31_0_88
SAMPLE_SBS31_0_89
SAMPLE_SBS31_0_9


Reconstruction error
1.00
0.95
0.90
0.85
0.80
0.75
Cosine similarity
Pearson corr.
SAMPLE-SBS31_0_90
SAMPLE-SBS31_0_91
SAMPLE-SBS31_0_92
SAMPLE-SBS31_0_93
SAMPLE-SBS31_0_94
SAMPLE-SBS31_0_95
SAMPLE-SBS31_0_96
SAMPLE-SBS31_0_97
SAMPLE-SBS31_0_98
SAMPLE-SBS31_0_99
SAMPLE-SBS31_100_1
SAMPLE-SBS31_100_10
SAMPLE-SBS31_100_100
SAMPLE-SBS31_100_11
SAMPLE-SBS31_100_12
SAMPLE-SBS31_100_13
SAMPLE-SBS31_100_14
SAMPLE-SBS31_100_15
SAMPLE-SBS31_100_16
SAMPLE-SBS31_100_17
SAMPLE-SBS31_100_18
SAMPLE-SBS31_100_19
SAMPLE-SBS31_100_2
SAMPLE-SBS31_100_20
SAMPLE-SBS31_100_21
SAMPLE-SBS31_100_22
SAMPLE-SBS31_100_23
SAMPLE-SBS31_100_24
SAMPLE-SBS31_100_25
SAMPLE-SBS31_100_26
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
245
240
235
230
225

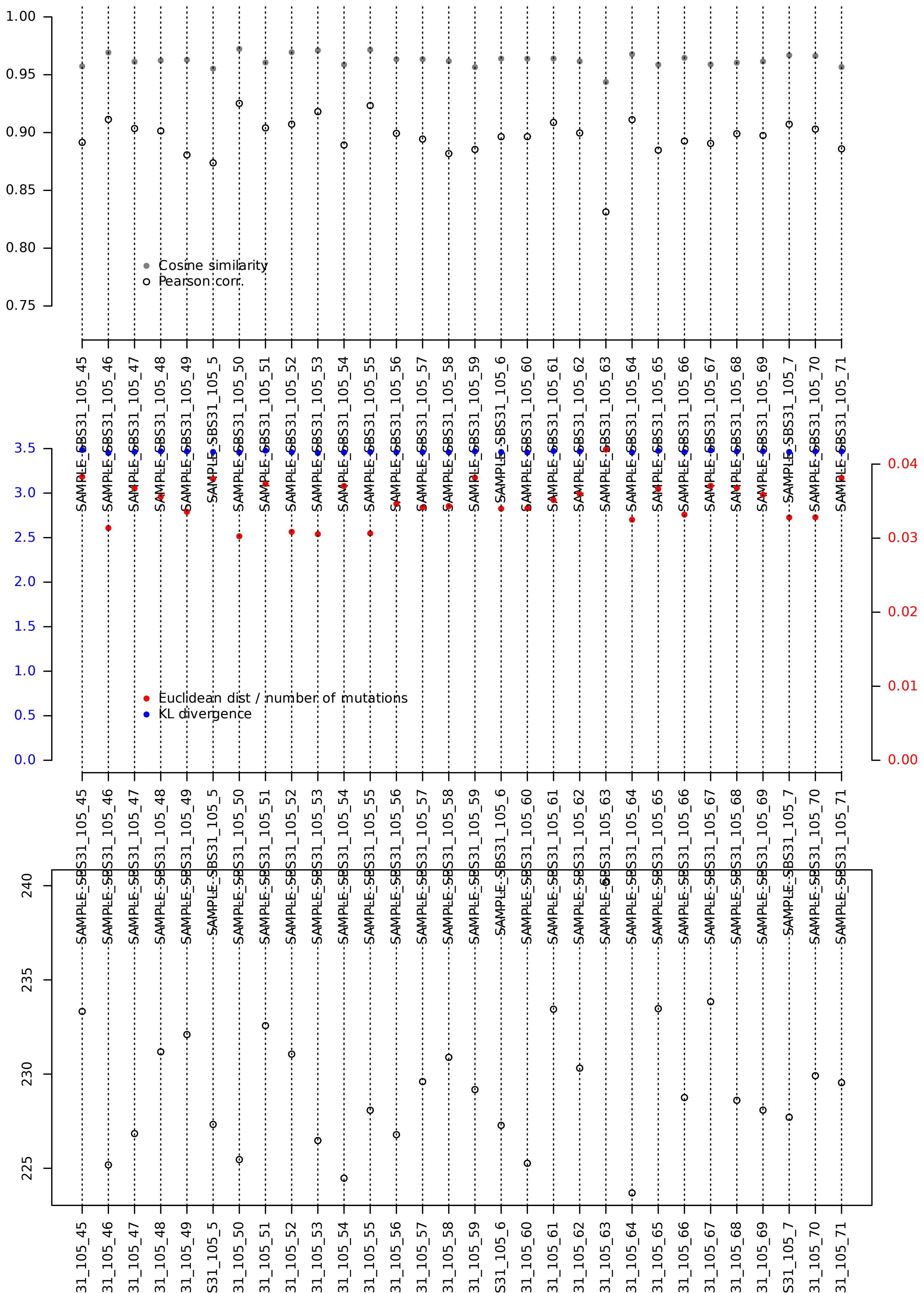

Reconstruction error
1.00
0.95
0.90
0.85
0.80
0.75
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
240
235
230
225
SAMPLE-SBS31_100_27
SAMPLE-SBS31_100_28
SAMPLE-SBS31_100_29
SAMPLE-SBS31_100_3
SAMPLE-SBS31_100_30
SAMPLE-SBS31_100_31
SAMPLE-SBS31_100_32
SAMPLE-SBS31_100_33
SAMPLE-SBS31_100_34
SAMPLE-SBS31_100_35
SAMPLE-SBS31_100_36
SAMPLE-SBS31_100_37
SAMPLE-SBS31_100_38
SAMPLE-SBS31_100_39
SAMPLE-SBS31_100_4
SAMPLE-SBS31_100_40
SAMPLE-SBS31_100_41
SAMPLE-SBS31_100_42
SAMPLE-SBS31_100_43
SAMPLE-SBS31_100_44
SAMPLE-SBS31_100_45
SAMPLE-SBS31_100_46
SAMPLE-SBS31_100_47
SAMPLE-SBS31_100_48
SAMPLE-SBS31_100_49
SAMPLE-SBS31_100_5
SAMPLE-SBS31_100_50
SAMPLE-SBS31_100_51
SAMPLE-SBS31_100_52
SAMPLE-SBS31_100_53

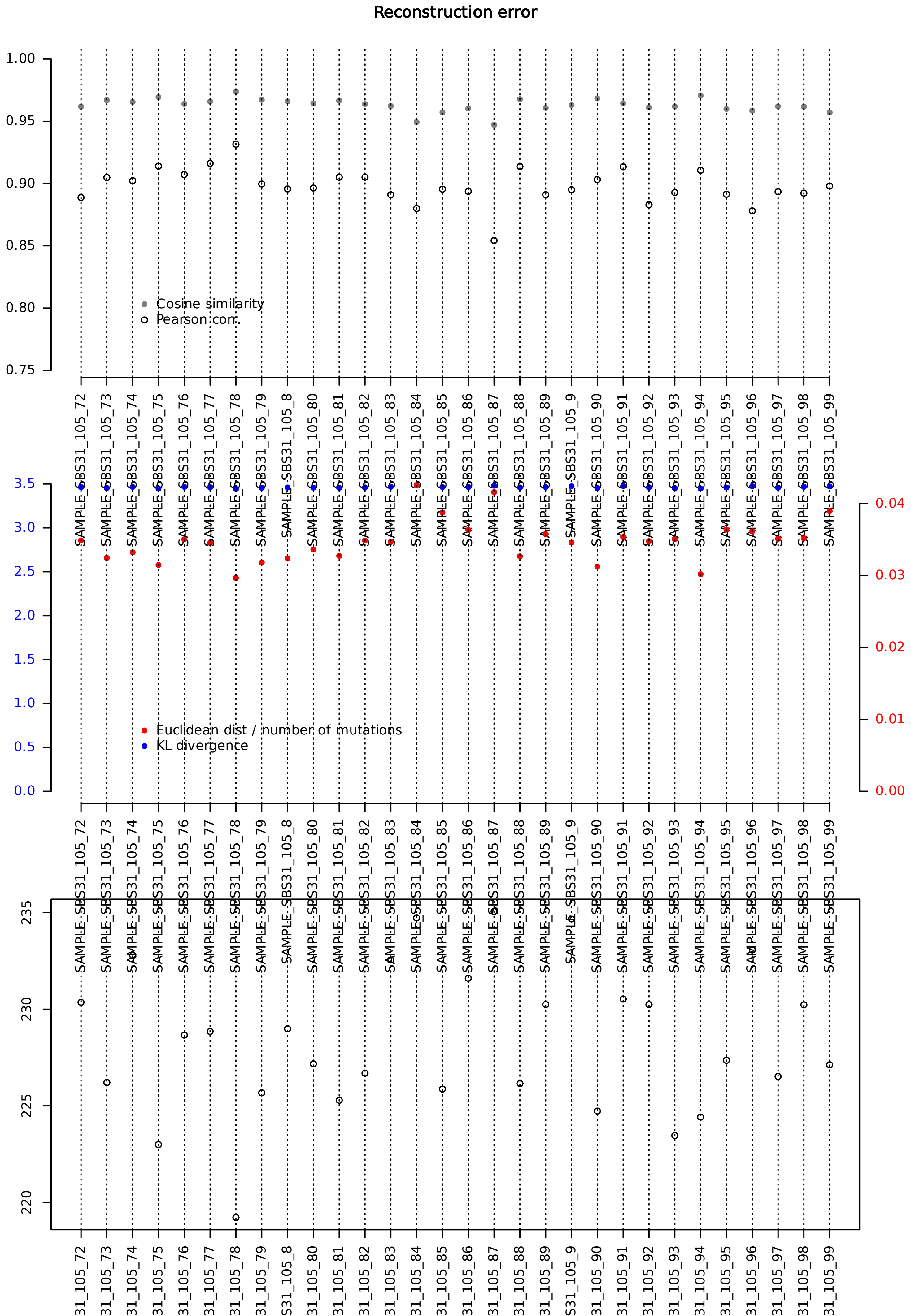

Reconstruction error
1.00
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
234
232
230
228
226
224
SAMPLE-SBS31_100_54
SAMPLE-SBS31_100_55
SAMPLE-SBS31_100_56
SAMPLE-SBS31_100_57
SAMPLE-SBS31_100_58
SAMPLE-SBS31_100_59
SAMPLE-SBS31_100_6
SAMPLE-SBS31_100_60
SAMPLE-SBS31_100_61
SAMPLE-SBS31_100_62
SAMPLE-SBS31_100_63
SAMPLE-SBS31_100_64
SAMPLE-SBS31_100_65
SAMPLE-SBS31_100_66
SAMPLE-SBS31_100_67
SAMPLE-SBS31_100_68
SAMPLE-SBS31_100_69
SAMPLE-SBS31_100_7
SAMPLE-SBS31_100_70
SAMPLE-SBS31_100_71
SAMPLE-SBS31_100_72
SAMPLE-SBS31_100_73
SAMPLE-SBS31_100_74
SAMPLE-SBS31_100_75
SAMPLE-SBS31_100_76
SAMPLE-SBS31_100_77
SAMPLE-SBS31_100_78
SAMPLE-SBS31_100_79
SAMPLE-SBS31_100_8
SAMPLE-SBS31_100_80

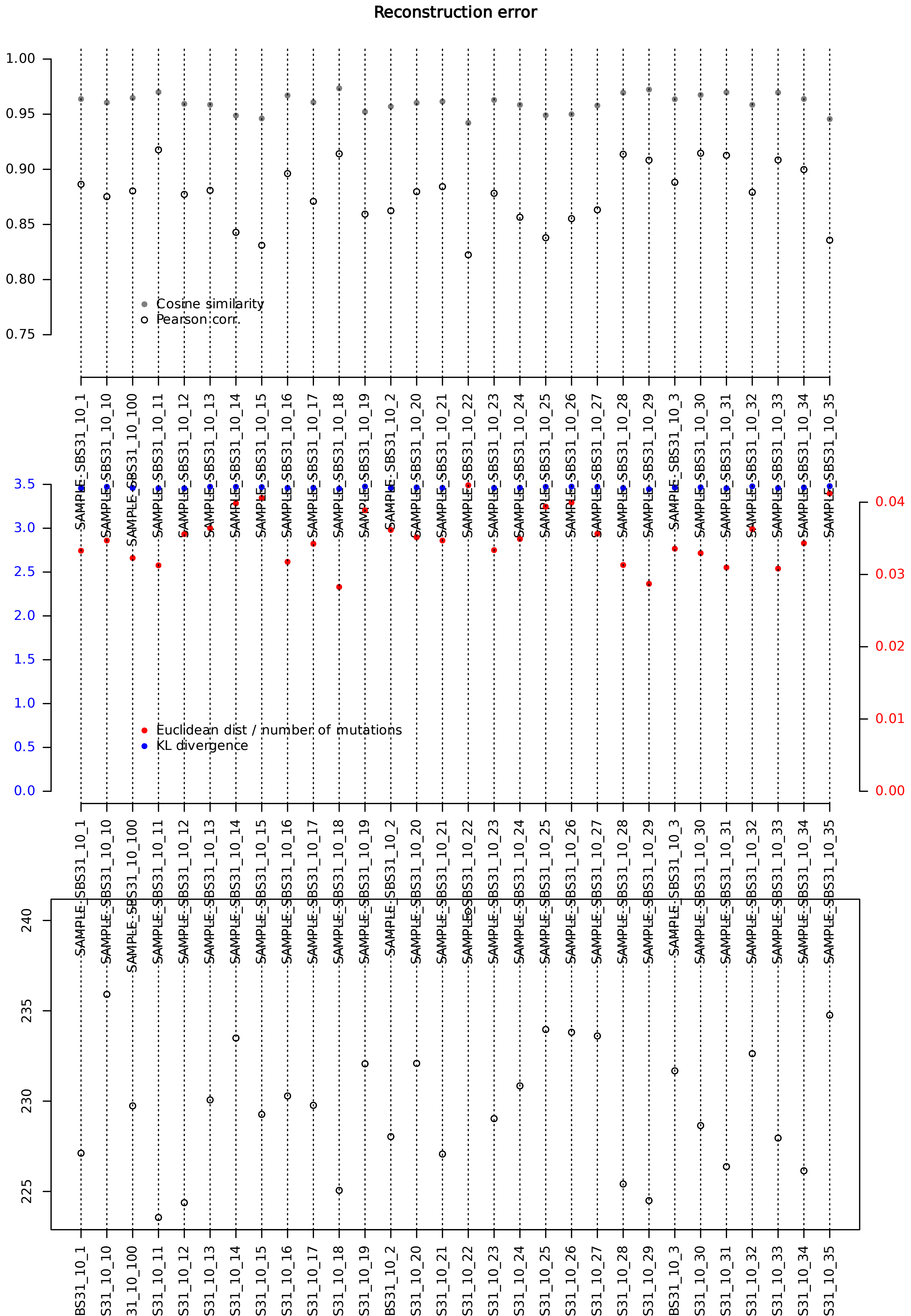

Reconstruction error
1.00
0.95
0.90
0.85
0.80
0.75
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
SAMPLE-SBS31_100_81
SAMPLE-SBS31_100_82
SAMPLE-SBS31_100_83
SAMPLE-SBS31_100_84
SAMPLE-SBS31_100_85
SAMPLE-SBS31_100_86
SAMPLE-SBS31_100_87
SAMPLE-SBS31_100_88
SAMPLE-SBS31_100_89
SAMPLE-SBS31_100_9
SAMPLE-SBS31_100_90
SAMPLE-SBS31_100_91
SAMPLE-SBS31_100_92
SAMPLE-SBS31_100_93
SAMPLE-SBS31_100_94
SAMPLE-SBS31_100_95
SAMPLE-SBS31_100_96
SAMPLE-SBS31_100_97
SAMPLE-SBS31_100_98
SAMPLE-SBS31_100_99
SAMPLE-SBS31_105_1
SAMPLE-SBS31_105_10
SAMPLE-SBS31_105_100
SAMPLE-SBS31_105_11
SAMPLE-SBS31_105_12
SAMPLE-SBS31_105_13
SAMPLE-SBS31_105_14
SAMPLE-SBS31_105_15
SAMPLE-SBS31_105_16
SAMPLE-SBS31_105_17

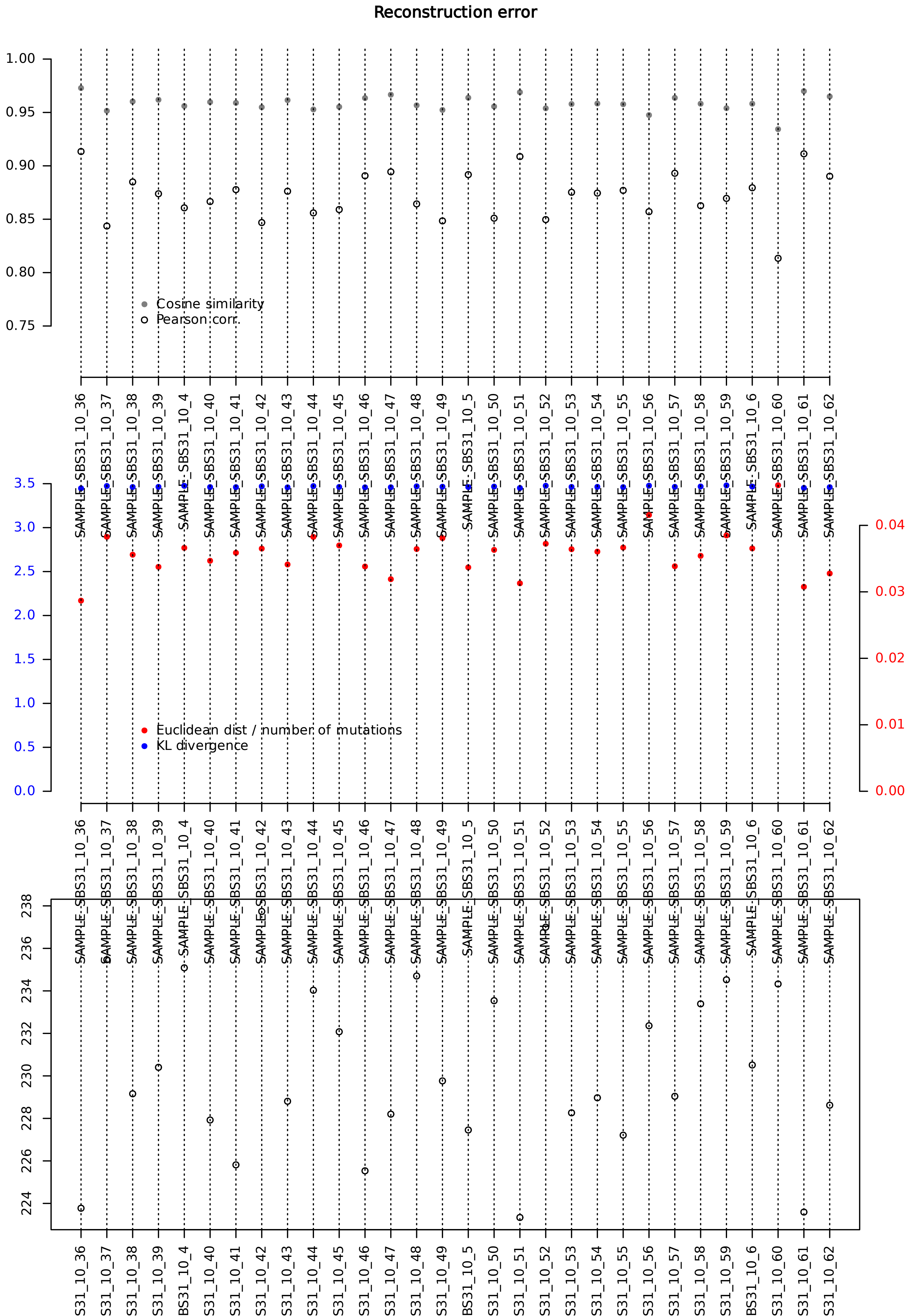

Reconstruction error
1.00
0.95
0.90
0.85
0.80
0.75
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
240
235
230
225
220
SAMPLE-SBS31_105_18
SAMPLE-SBS31_105_19
SAMPLE-SBS31_105_2
SAMPLE-SBS31_105_20
SAMPLE-SBS31_105_21
SAMPLE-SBS31_105_22
SAMPLE-SBS31_105_23
SAMPLE-SBS31_105_24
SAMPLE-SBS31_105_25
SAMPLE-SBS31_105_26
SAMPLE-SBS31_105_27
SAMPLE-SBS31_105_28
SAMPLE-SBS31_105_29
SAMPLE-SBS31_105_3
SAMPLE-SBS31_105_30
SAMPLE-SBS31_105_31
SAMPLE-SBS31_105_32
SAMPLE-SBS31_105_33
SAMPLE-SBS31_105_34
SAMPLE-SBS31_105_35
SAMPLE-SBS31_105_36
SAMPLE-SBS31_105_37
SAMPLE-SBS31_105_38
SAMPLE-SBS31_105_39
SAMPLE-SBS31_105_4
SAMPLE-SBS31_105_40
SAMPLE-SBS31_105_41
SAMPLE-SBS31_105_42
SAMPLE-SBS31_105_43
SAMPLE-SBS31_105_44

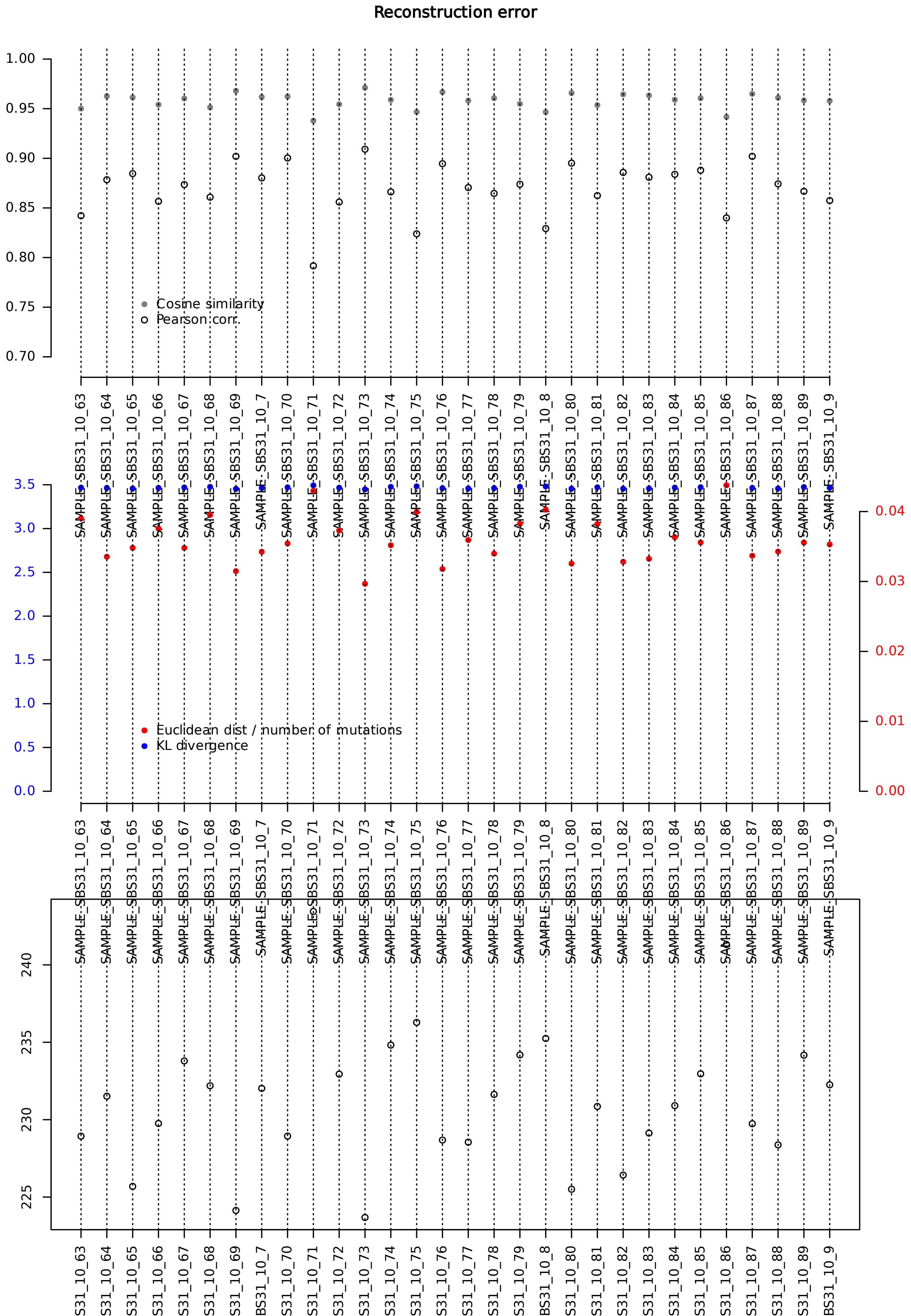
Reconstruction error




Reconstruction error
1.00
0.95
0.90
0.85
0.80
0.75
● Cosine similarity
○ Pearson corr.
SAMPLE_SBS31_105_72
SAMPLE_SBS31_105_73
SAMPLE_SBS31_105_74
SAMPLE_SBS31_105_75
SAMPLE_SBS31_105_76
SAMPLE_SBS31_105_77
SAMPLE_SBS31_105_78
SAMPLE_SBS31_105_79
SAMPLE_SBS31_105_8
SAMPLE_SBS31_105_80
SAMPLE_SBS31_105_81
SAMPLE_SBS31_105_82
SAMPLE_SBS31_105_83
SAMPLE_SBS31_105_84
SAMPLE_SBS31_105_85
SAMPLE_SBS31_105_86
SAMPLE_SBS31_105_87
SAMPLE_SBS31_105_88
SAMPLE_SBS31_105_89
SAMPLE_SBS31_105_9
SAMPLE_SBS31_105_90
SAMPLE_SBS31_105_91
SAMPLE_SBS31_105_92
SAMPLE_SBS31_105_93
SAMPLE_SBS31_105_94
SAMPLE_SBS31_105_95
SAMPLE_SBS31_105_96
SAMPLE_SBS31_105_97
SAMPLE_SBS31_105_98
SAMPLE_SBS31_105_99
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
● Euclidean dist / number of mutations
● KL divergence
235
230
225
220


Reconstruction error
1.00
0.95
0.90
0.85
0.80
0.75
Cosine similarity
Pearson corr.
SAMPLE-SBS31_10_1
SAMPLE-SBS31_10_10
SAMPLE-SBS31_10_100
SAMPLE-SBS31_10_11
SAMPLE-SBS31_10_12
SAMPLE-SBS31_10_13
SAMPLE-SBS31_10_14
SAMPLE-SBS31_10_15
SAMPLE-SBS31_10_16
SAMPLE-SBS31_10_17
SAMPLE-SBS31_10_18
SAMPLE-SBS31_10_19
SAMPLE-SBS31_10_2
SAMPLE-SBS31_10_20
SAMPLE-SBS31_10_21
SAMPLE-SBS31_10_22
SAMPLE-SBS31_10_23
SAMPLE-SBS31_10_24
SAMPLE-SBS31_10_25
SAMPLE-SBS31_10_26
SAMPLE-SBS31_10_27
SAMPLE-SBS31_10_28
SAMPLE-SBS31_10_29
SAMPLE-SBS31_10_3
SAMPLE-SBS31_10_30
SAMPLE-SBS31_10_31
SAMPLE-SBS31_10_32
SAMPLE-SBS31_10_33
SAMPLE-SBS31_10_34
SAMPLE-SBS31_10_35
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
240
235
230
225


Reconstruction error
1.00
0.95
0.90
0.85
0.80
0.75
● Cosine similarity
○ Pearson corr.
SAMPLE-SBS31_10_36
SAMPLE-SBS31_10_37
SAMPLE-SBS31_10_38
SAMPLE-SBS31_10_39
SAMPLE-SBS31_10_4
SAMPLE-SBS31_10_40
SAMPLE-SBS31_10_41
SAMPLE-SBS31_10_42
SAMPLE-SBS31_10_43
SAMPLE-SBS31_10_44
SAMPLE-SBS31_10_45
SAMPLE-SBS31_10_46
SAMPLE-SBS31_10_47
SAMPLE-SBS31_10_48
SAMPLE-SBS31_10_49
SAMPLE-SBS31_10_5
SAMPLE-SBS31_10_50
SAMPLE-SBS31_10_51
SAMPLE-SBS31_10_52
SAMPLE-SBS31_10_53
SAMPLE-SBS31_10_54
SAMPLE-SBS31_10_55
SAMPLE-SBS31_10_56
SAMPLE-SBS31_10_57
SAMPLE-SBS31_10_58
SAMPLE-SBS31_10_59
SAMPLE-SBS31_10_6
SAMPLE-SBS31_10_60
SAMPLE-SBS31_10_61
SAMPLE-SBS31_10_62
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
● Euclidean dist / number of mutations
● KL divergence
238
236
234
232
230
228
226
224


Reconstruction error
1.00
0.95
0.90
0.85
0.80
0.75
0.70
Cosine similarity
Pearson corr.
SAMPLE-SBS31_10_63
SAMPLE-SBS31_10_64
SAMPLE-SBS31_10_65
SAMPLE-SBS31_10_66
SAMPLE-SBS31_10_67
SAMPLE-SBS31_10_68
SAMPLE-SBS31_10_69
SAMPLE-SBS31_10_7
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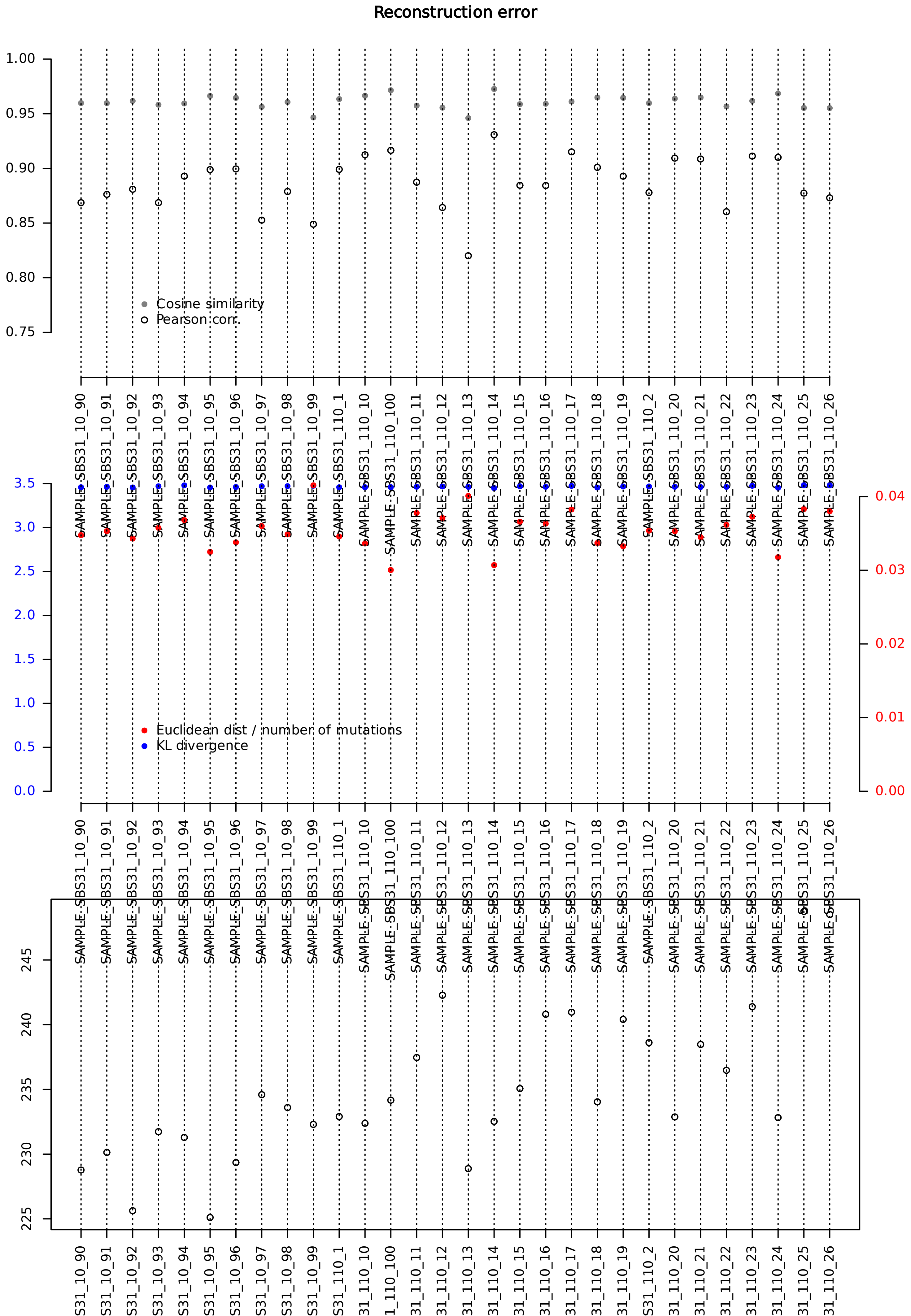
SAMPLE-SBS31_10_81
SAMPLE-SBS31_10_82
SAMPLE-SBS31_10_83
SAMPLE-SBS31_10_84
SAMPLE-SBS31_10_85
SAMPLE-SBS31_10_86
SAMPLE-SBS31_10_87
SAMPLE-SBS31_10_88
SAMPLE-SBS31_10_89
SAMPLE-SBS31_10_9
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
240
235
230
225


Reconstruction error
1.00
0.95
0.90
0.85
0.80
0.75
● Cosine similarity
○ Pearson corr.
SAMPLE-SBS31_10_90
SAMPLE-SBS31_10_91
SAMPLE-SBS31_10_92
SAMPLE-SBS31_10_93
SAMPLE-SBS31_10_94
SAMPLE-SBS31_10_95
SAMPLE-SBS31_10_96
SAMPLE-SBS31_10_97
SAMPLE-SBS31_10_98
SAMPLE-SBS31_10_99
SAMPLE-SBS31_110_1
SAMPLE-SBS31_110_10
SAMPLE-SBS31_110_100
SAMPLE-SBS31_110_11
SAMPLE-SBS31_110_12
SAMPLE-SBS31_110_13
SAMPLE-SBS31_110_14
SAMPLE-SBS31_110_15
SAMPLE-SBS31_110_16
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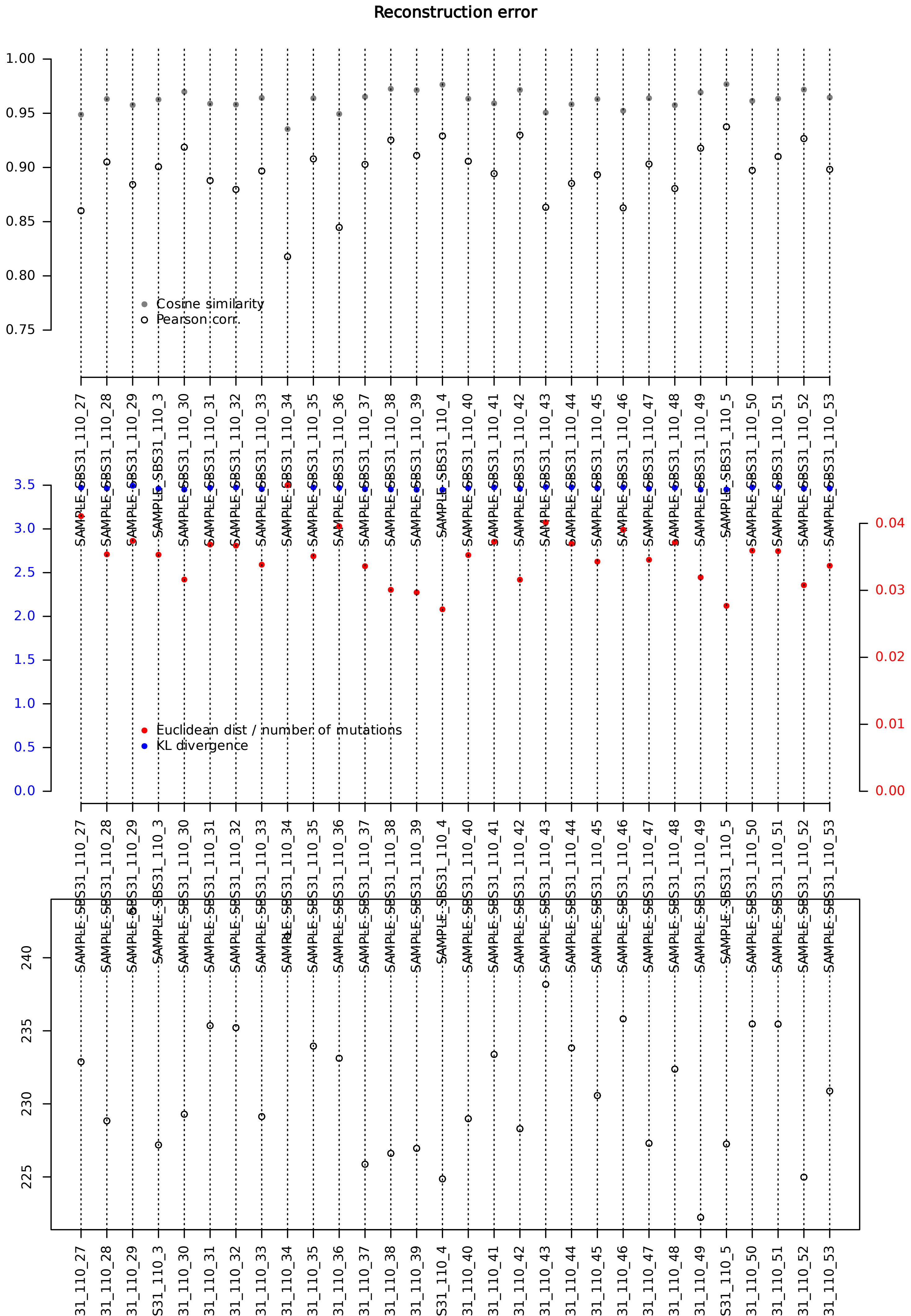
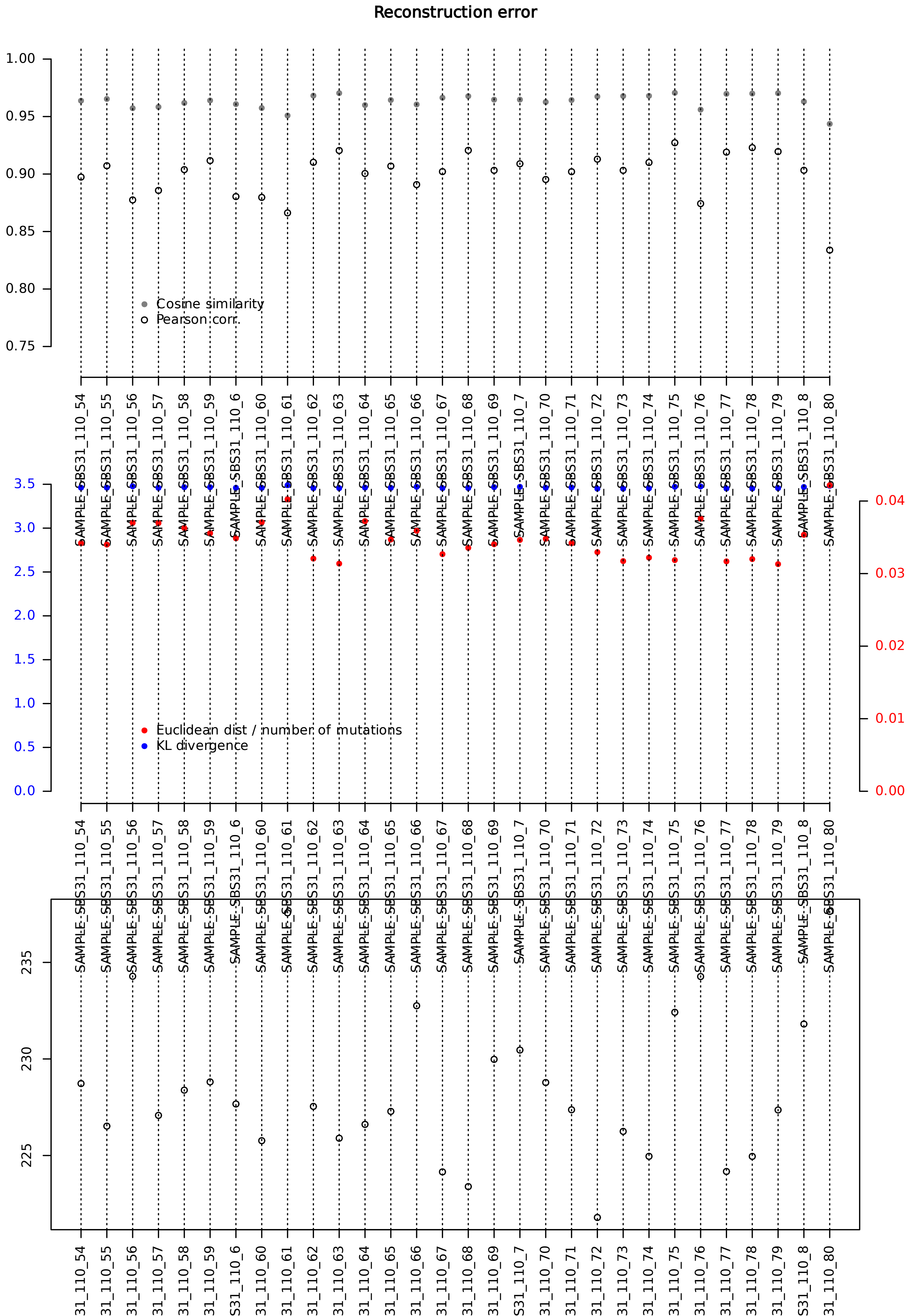
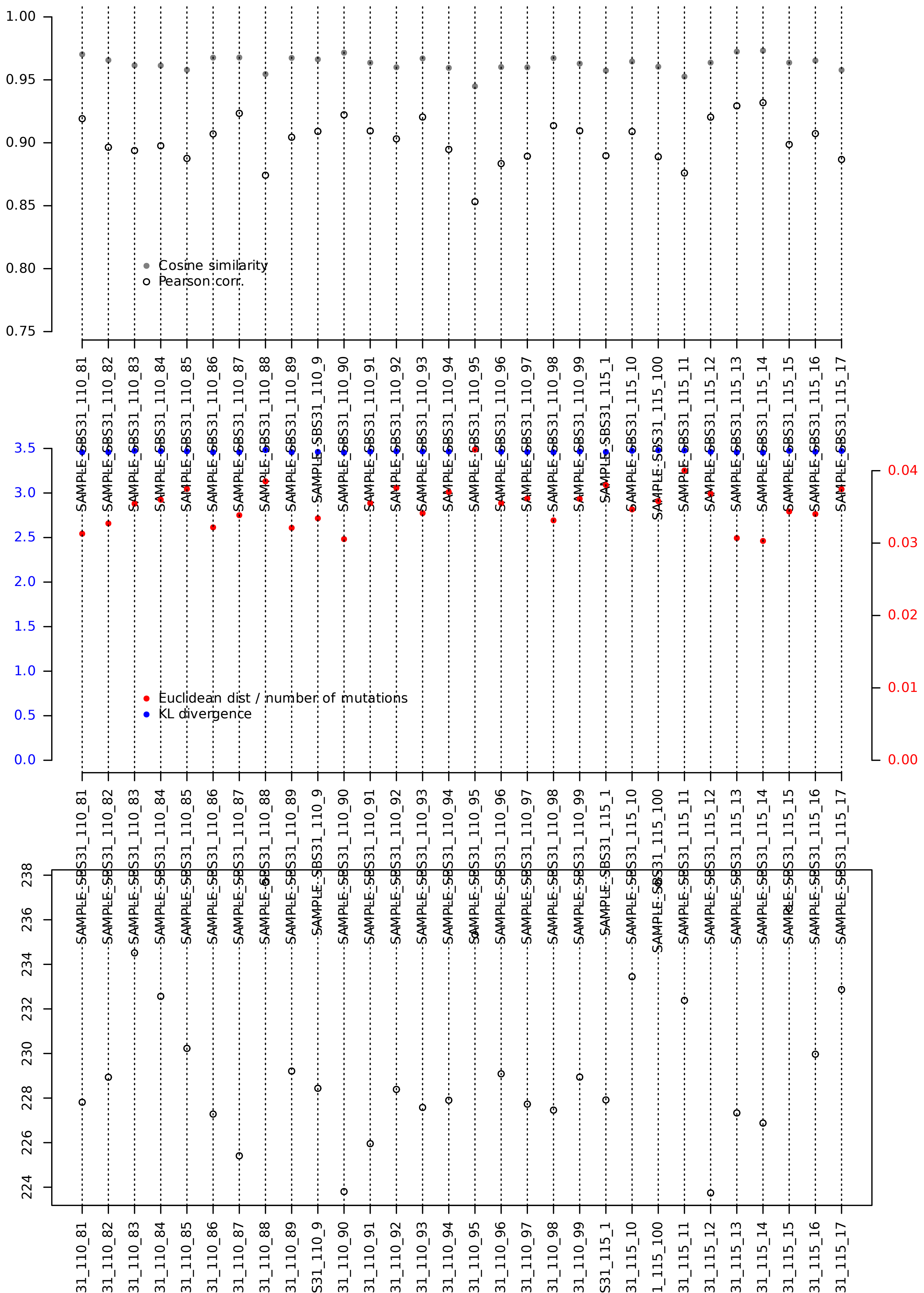
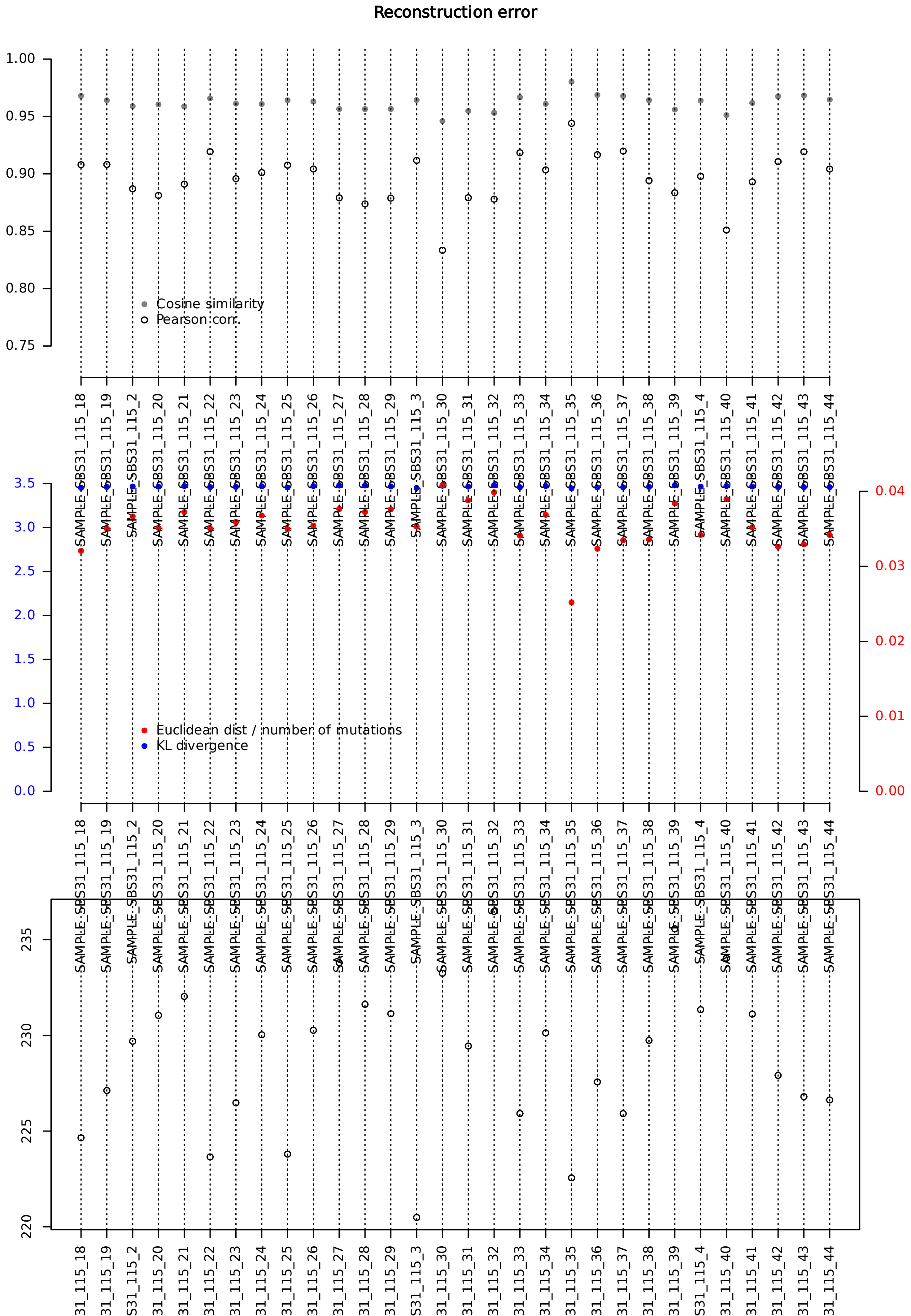
SAMPLE-SBS31_110_25
SAMPLE-SBS31_110_26
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
● Euclidean dist / number of mutations
● KL divergence
SAMPLE-SBS31_10_90
SAMPLE-SBS31_10_91
SAMPLE-SBS31_10_92
SAMPLE-SBS31_10_93
SAMPLE-SBS31_10_94
SAMPLE-SBS31_10_95
SAMPLE-SBS31_10_96
SAMPLE-SBS31_10_97
SAMPLE-SBS31_10_98
SAMPLE-SBS31_10_99
SAMPLE-SBS31_110_1
SAMPLE-SBS31_110_10
SAMPLE-SBS31_110_100
SAMPLE-SBS31_110_11
SAMPLE-SBS31_110_12
SAMPLE-SBS31_110_13
SAMPLE-SBS31_110_14
SAMPLE-SBS31_110_15
SAMPLE-SBS31_110_16
SAMPLE-SBS31_110_17
SAMPLE-SBS31_110_18
SAMPLE-SBS31_110_19
SAMPLE-SBS31_110_2
SAMPLE-SBS31_110_20
SAMPLE-SBS31_110_21
SAMPLE-SBS31_110_22
SAMPLE-SBS31_110_23
SAMPLE-SBS31_110_24
SAMPLE-SBS31_110_25
SAMPLE-SBS31_110_26
245
240
235
230
225
S31_10_90
S31_10_91
S31_10_92
S31_10_93
S31_10_94
S31_10_95
S31_10_96
S31_10_97
S31_10_98
S31_10_99
S31_110_1
31_110_10
1_110_100
31_110_11
31_110_12
31_110_13
31_110_14
31_110_15
31_110_16
31_110_17
31_110_18
31_110_19
S31_110_2
31_110_20
31_110_21
31_110_22
31_110_23
31_110_24
31_110_25
31_110_26


Reconstruction error
1.00
0.95
0.90
0.85
0.80
0.75
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
240
235
230
225
SAMPLE-SBS31_110_27
SAMPLE-SBS31_110_28
SAMPLE-SBS31_110_29
SAMPLE-SBS31_110_3
SAMPLE-SBS31_110_30
SAMPLE-SBS31_110_31
SAMPLE-SBS31_110_32
SAMPLE-SBS31_110_33
SAMPLE-SBS31_110_34
SAMPLE-SBS31_110_35
SAMPLE-SBS31_110_36
SAMPLE-SBS31_110_37
SAMPLE-SBS31_110_38
SAMPLE-SBS31_110_39
SAMPLE-SBS31_110_4
SAMPLE-SBS31_110_40
SAMPLE-SBS31_110_41
SAMPLE-SBS31_110_42
SAMPLE-SBS31_110_43
SAMPLE-SBS31_110_44
SAMPLE-SBS31_110_45
SAMPLE-SBS31_110_46
SAMPLE-SBS31_110_47
SAMPLE-SBS31_110_48
SAMPLE-SBS31_110_49
SAMPLE-SBS31_110_5
SAMPLE-SBS31_110_50
SAMPLE-SBS31_110_51
SAMPLE-SBS31_110_52
SAMPLE-SBS31_110_53


Reconstruction error
1.00
0.95
0.90
0.85
0.80
0.75
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
SAMPLE-SBS31_110_54
SAMPLE-SBS31_110_55
SAMPLE-SBS31_110_56
SAMPLE-SBS31_110_57
SAMPLE-SBS31_110_58
SAMPLE-SBS31_110_59
SAMPLE-SBS31_110_6
SAMPLE-SBS31_110_60
SAMPLE-SBS31_110_61
SAMPLE-SBS31_110_62
SAMPLE-SBS31_110_63
SAMPLE-SBS31_110_64
SAMPLE-SBS31_110_65
SAMPLE-SBS31_110_66
SAMPLE-SBS31_110_67
SAMPLE-SBS31_110_68
SAMPLE-SBS31_110_69
SAMPLE-SBS31_110_7
SAMPLE-SBS31_110_70
SAMPLE-SBS31_110_71
SAMPLE-SBS31_110_72
SAMPLE-SBS31_110_73
SAMPLE-SBS31_110_74
SAMPLE-SBS31_110_75
SAMPLE-SBS31_110_76
SAMPLE-SBS31_110_77
SAMPLE-SBS31_110_78
SAMPLE-SBS31_110_79
SAMPLE-SBS31_110_8
SAMPLE-SBS31_110_80

Reconstruction error




Reconstruction error
1.00
0.95
0.90
0.85
0.80
0.75
Cosine similarity
Pearson corr.
SAMPLE-SBS31_115_18
SAMPLE-SBS31_115_19
SAMPLE-SBS31_115_2
SAMPLE-SBS31_115_20
SAMPLE-SBS31_115_21
SAMPLE-SBS31_115_22
SAMPLE-SBS31_115_23
SAMPLE-SBS31_115_24
SAMPLE-SBS31_115_25
SAMPLE-SBS31_115_26
SAMPLE-SBS31_115_27
SAMPLE-SBS31_115_28
SAMPLE-SBS31_115_29
SAMPLE-SBS31_115_3
SAMPLE-SBS31_115_30
SAMPLE-SBS31_115_31
SAMPLE-SBS31_115_32
SAMPLE-SBS31_115_33
SAMPLE-SBS31_115_34
SAMPLE-SBS31_115_35
SAMPLE-SBS31_115_36
SAMPLE-SBS31_115_37
SAMPLE-SBS31_115_38
SAMPLE-SBS31_115_39
SAMPLE-SBS31_115_4
SAMPLE-SBS31_115_40
SAMPLE-SBS31_115_41
SAMPLE-SBS31_115_42
SAMPLE-SBS31_115_43
SAMPLE-SBS31_115_44
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
220
31_115_18
31_115_19
S31_115_2
31_115_20
31_115_21
31_115_22
31_115_23
31_115_24
31_115_25
31_115_26
31_115_27
31_115_28
31_115_29
S31_115_3
31_115_30
31_115_31
31_115_32
31_115_33
31_115_34
31_115_35
31_115_36
31_115_37
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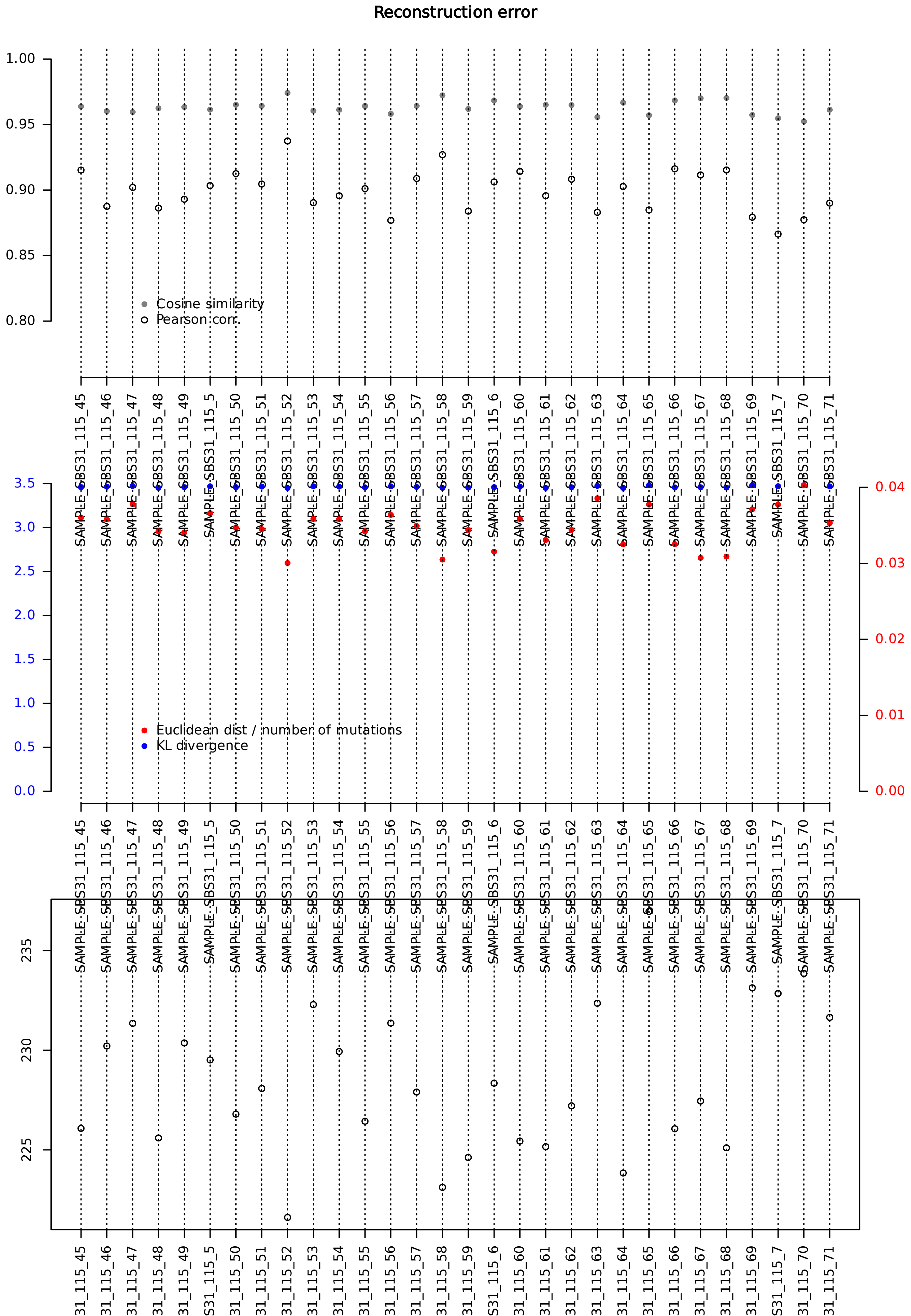
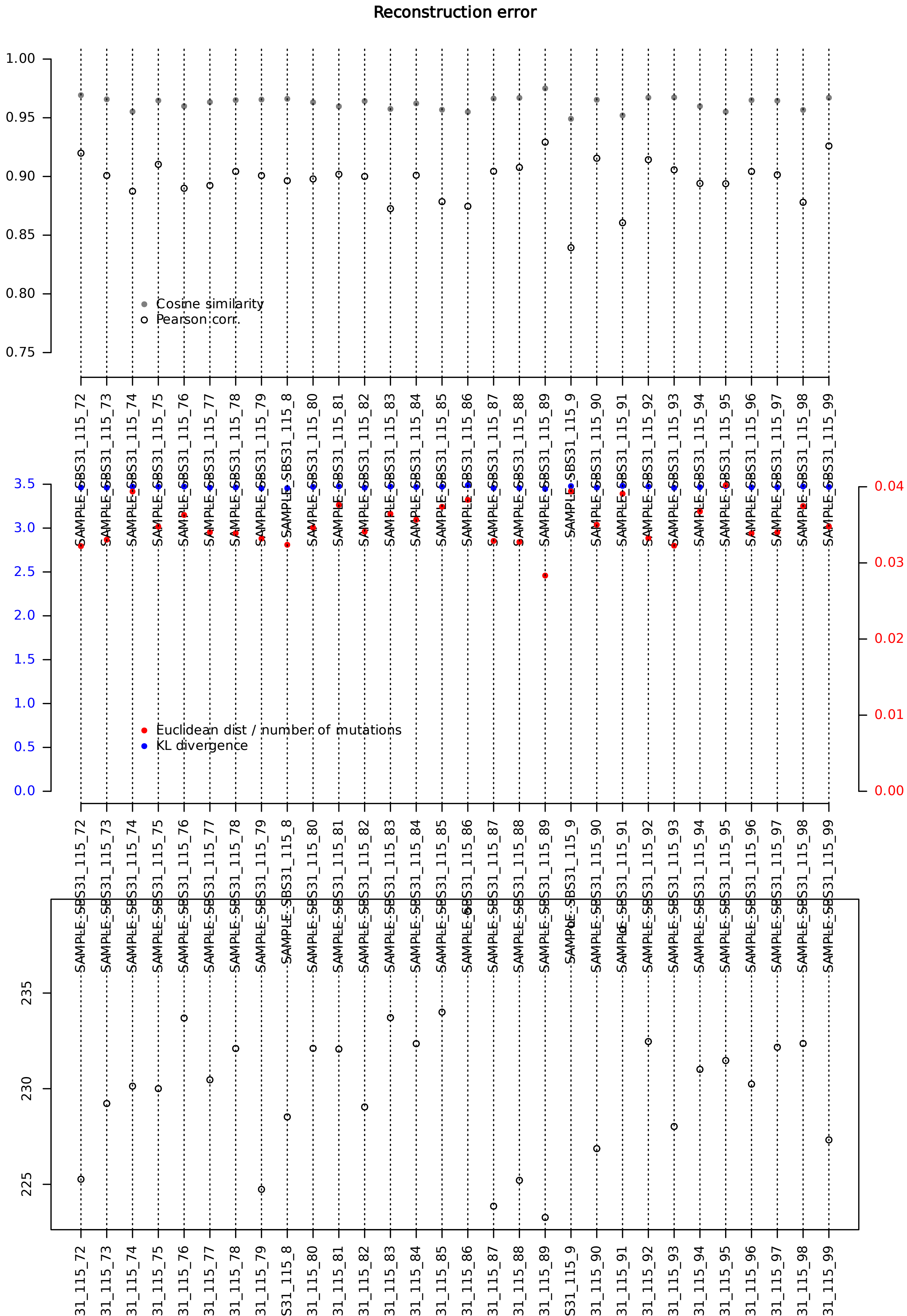
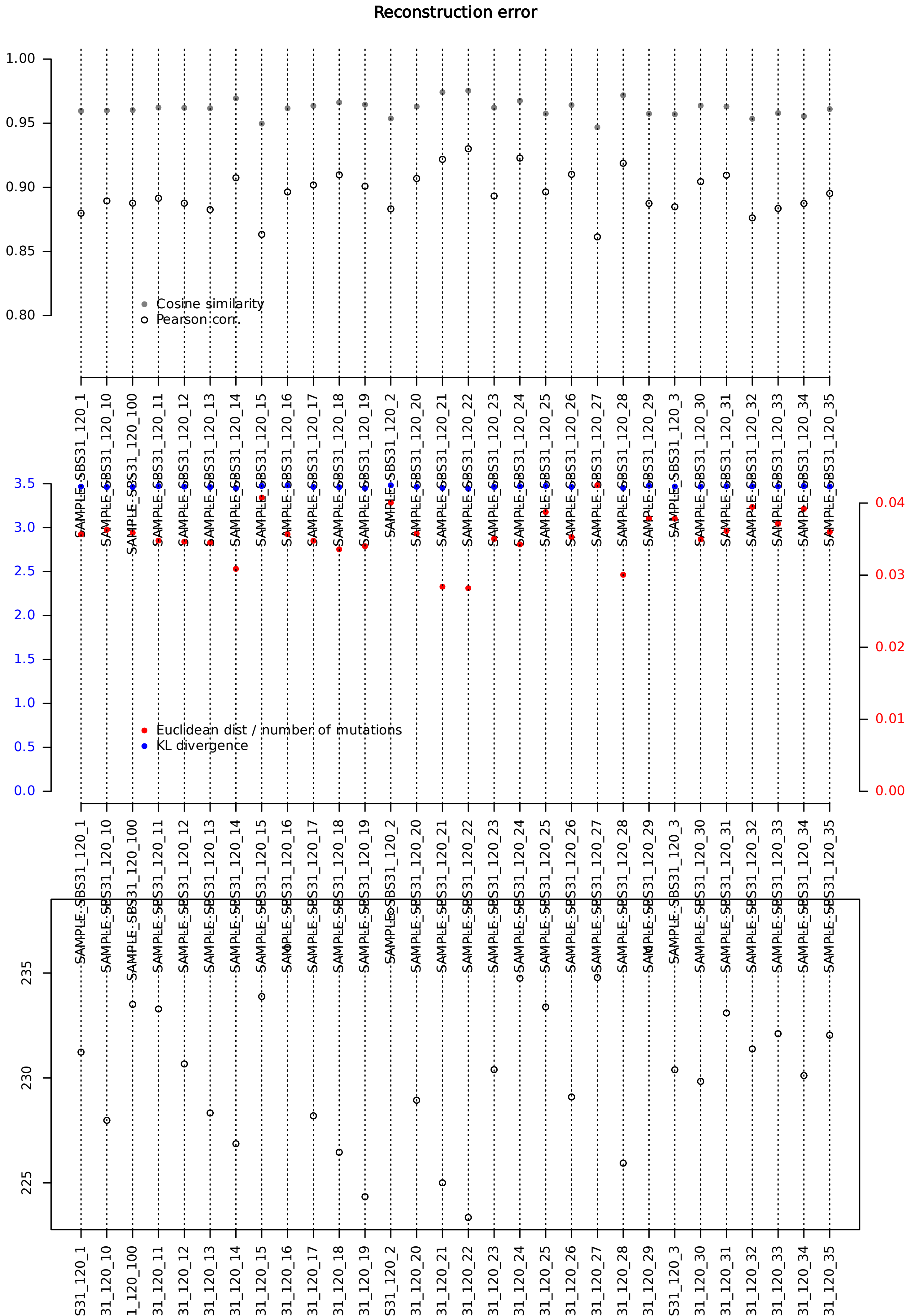
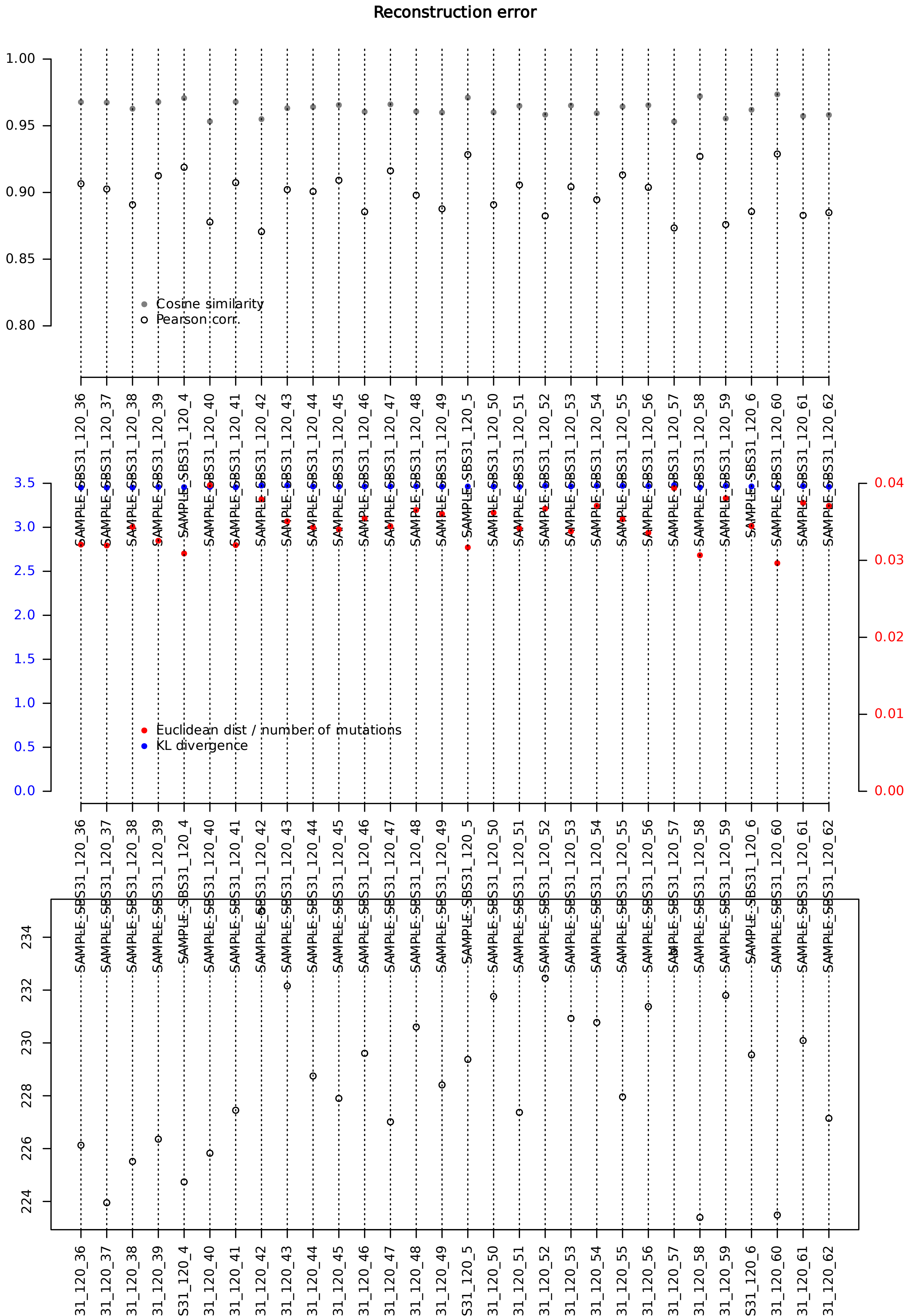
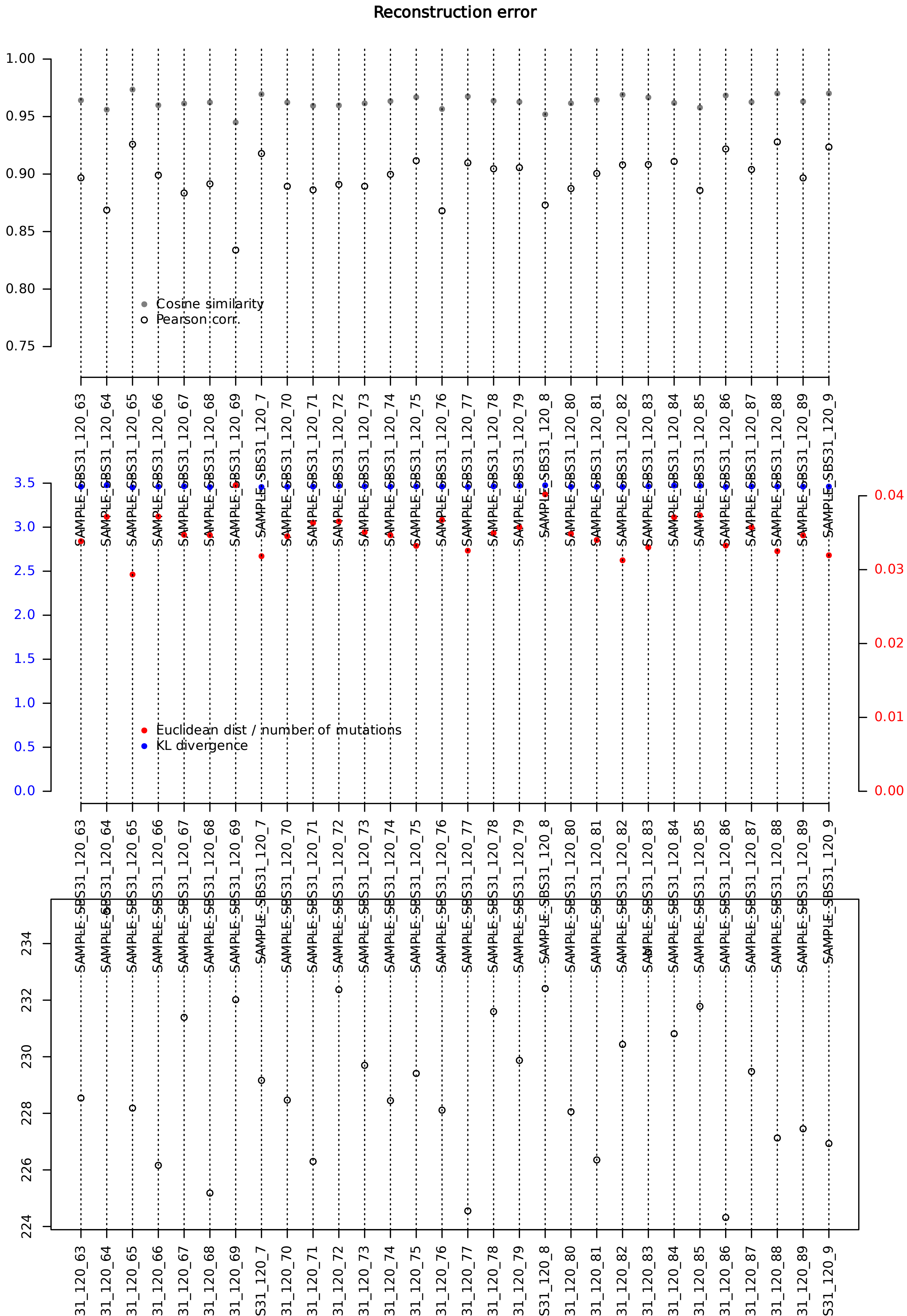
S31_115_4
31_115_40
31_115_41
31_115_42
31_115_43
31_115_44


Reconstruction error
1.00
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
SAMPLE-SBS31_115_45
SAMPLE-SBS31_115_46
SAMPLE-SBS31_115_47
SAMPLE-SBS31_115_48
SAMPLE-SBS31_115_49
SAMPLE-SBS31_115_5
SAMPLE-SBS31_115_50
SAMPLE-SBS31_115_51
SAMPLE-SBS31_115_52
SAMPLE-SBS31_115_53
SAMPLE-SBS31_115_54
SAMPLE-SBS31_115_55
SAMPLE-SBS31_115_56
SAMPLE-SBS31_115_57
SAMPLE-SBS31_115_58
SAMPLE-SBS31_115_59
SAMPLE-SBS31_115_6
SAMPLE-SBS31_115_60
SAMPLE-SBS31_115_61
SAMPLE-SBS31_115_62
SAMPLE-SBS31_115_63
SAMPLE-SBS31_115_64
SAMPLE-SBS31_115_65
SAMPLE-SBS31_115_66
SAMPLE-SBS31_115_67
SAMPLE-SBS31_115_68
SAMPLE-SBS31_115_69
SAMPLE-SBS31_115_7
SAMPLE-SBS31_115_70
SAMPLE-SBS31_115_71
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225

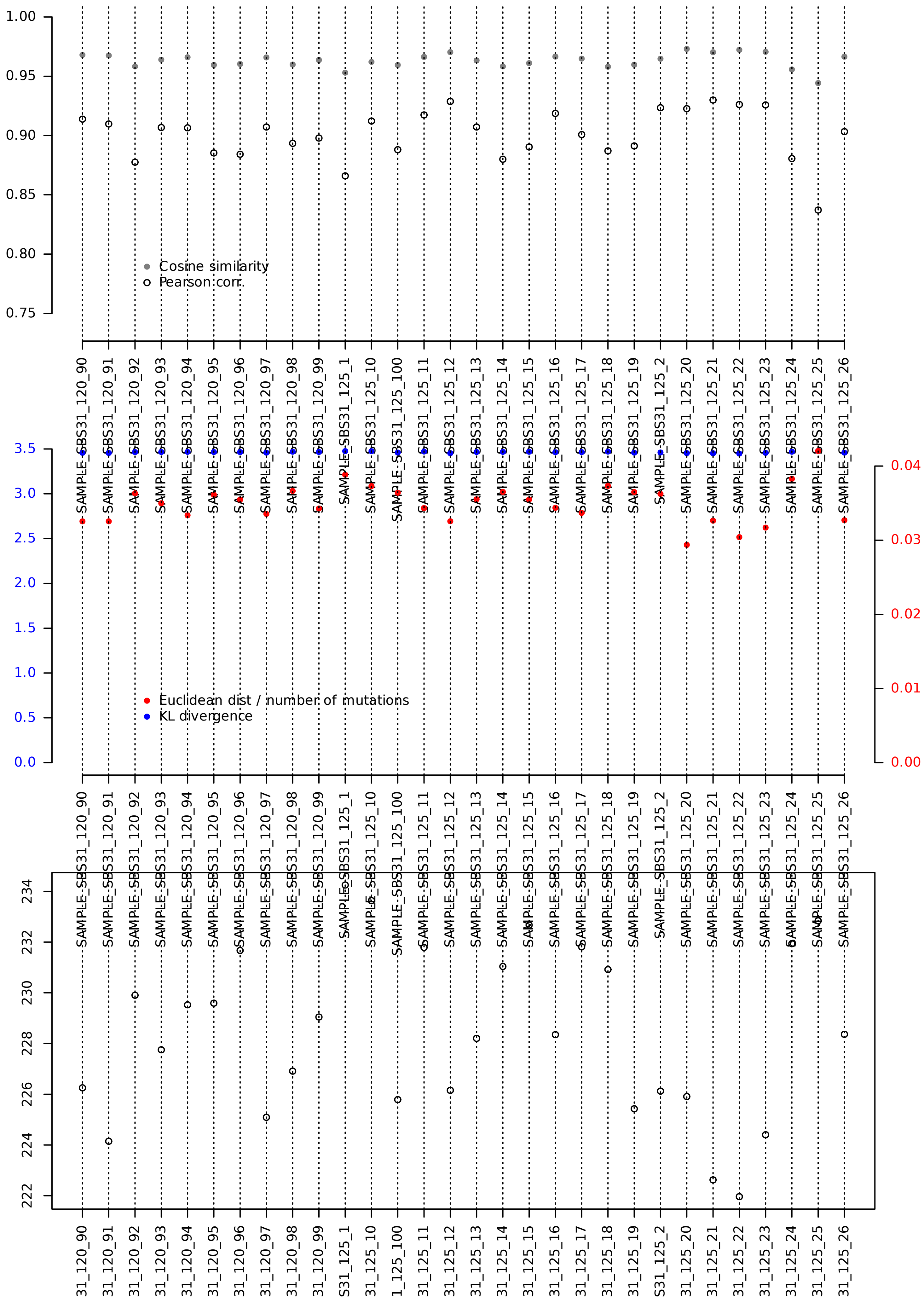

Reconstruction error
1.00
0.95
0.90
0.85
0.80
0.75
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
SAMPLE-SBS31_115_72
SAMPLE-SBS31_115_73
SAMPLE-SBS31_115_74
SAMPLE-SBS31_115_75
SAMPLE-SBS31_115_76
SAMPLE-SBS31_115_77
SAMPLE-SBS31_115_78
SAMPLE-SBS31_115_79
SAMPLE-SBS31_115_8
SAMPLE-SBS31_115_80
SAMPLE-SBS31_115_81
SAMPLE-SBS31_115_82
SAMPLE-SBS31_115_83
SAMPLE-SBS31_115_84
SAMPLE-SBS31_115_85
SAMPLE-SBS31_115_86
SAMPLE-SBS31_115_87
SAMPLE-SBS31_115_88
SAMPLE-SBS31_115_89
SAMPLE-SBS31_115_9
SAMPLE-SBS31_115_90
SAMPLE-SBS31_115_91
SAMPLE-SBS31_115_92
SAMPLE-SBS31_115_93
SAMPLE-SBS31_115_94
SAMPLE-SBS31_115_95
SAMPLE-SBS31_115_96
SAMPLE-SBS31_115_97
SAMPLE-SBS31_115_98
SAMPLE-SBS31_115_99

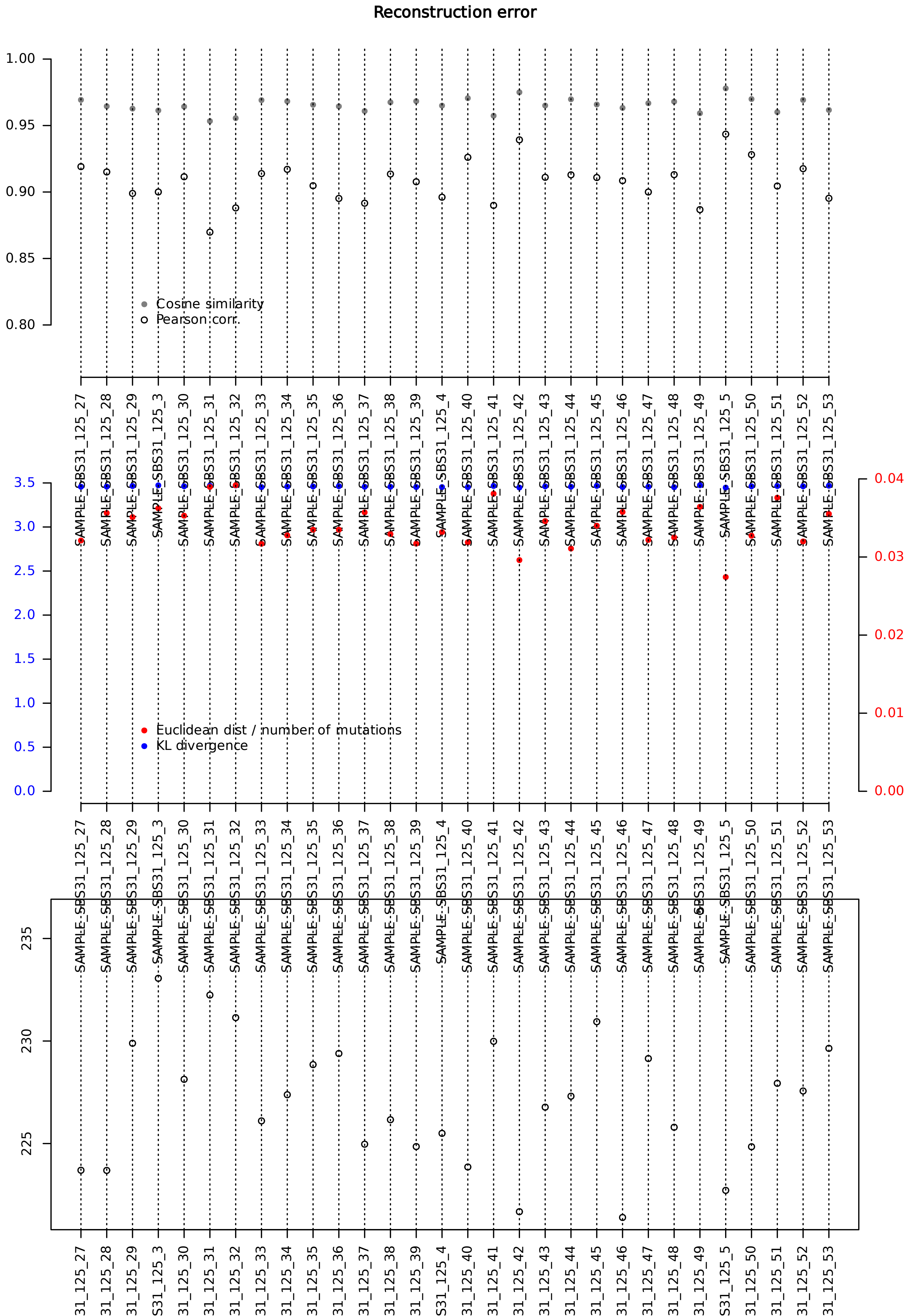

Reconstruction error
1.00
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
SAMPLE-SBS31_120_1
SAMPLE-SBS31_120_10
SAMPLE-SBS31_120_100
SAMPLE-SBS31_120_11
SAMPLE-SBS31_120_12
SAMPLE-SBS31_120_13
SAMPLE-SBS31_120_14
SAMPLE-SBS31_120_15
SAMPLE-SBS31_120_16
SAMPLE-SBS31_120_17
SAMPLE-SBS31_120_18
SAMPLE-SBS31_120_19
SAMPLE-SBS31_120_2
SAMPLE-SBS31_120_20
SAMPLE-SBS31_120_21
SAMPLE-SBS31_120_22
SAMPLE-SBS31_120_23
SAMPLE-SBS31_120_24
SAMPLE-SBS31_120_25
SAMPLE-SBS31_120_26
SAMPLE-SBS31_120_27
SAMPLE-SBS31_120_28
SAMPLE-SBS31_120_29
SAMPLE-SBS31_120_3
SAMPLE-SBS31_120_30
SAMPLE-SBS31_120_31
SAMPLE-SBS31_120_32
SAMPLE-SBS31_120_33
SAMPLE-SBS31_120_34
SAMPLE-SBS31_120_35

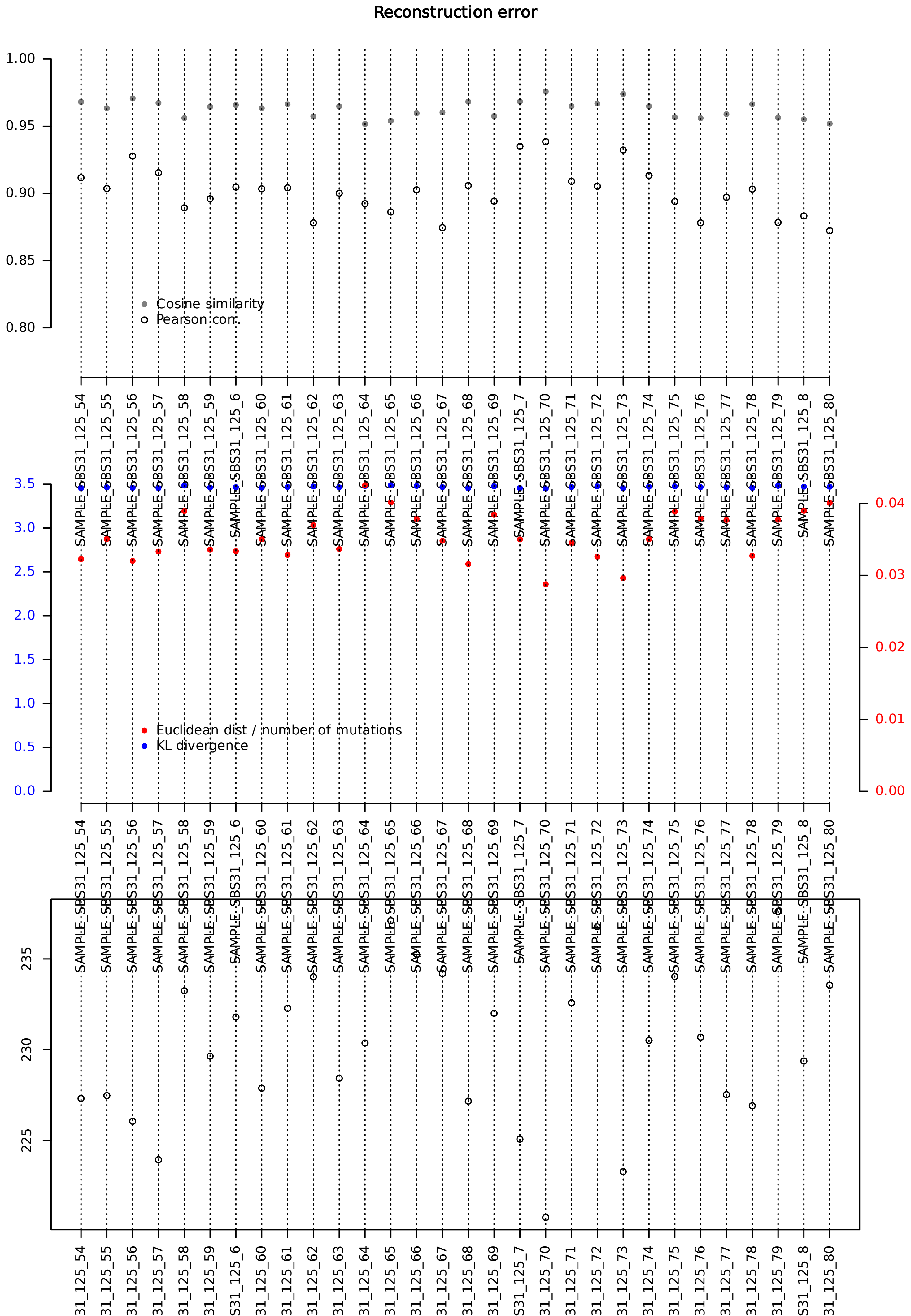

Reconstruction error
1.00
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
234
232
230
228
226
224
SAMPLE-SBS31_120_36
SAMPLE-SBS31_120_37
SAMPLE-SBS31_120_38
SAMPLE-SBS31_120_39
SAMPLE-SBS31_120_4
SAMPLE-SBS31_120_40
SAMPLE-SBS31_120_41
SAMPLE-SBS31_120_42
SAMPLE-SBS31_120_43
SAMPLE-SBS31_120_44
SAMPLE-SBS31_120_45
SAMPLE-SBS31_120_46
SAMPLE-SBS31_120_47
SAMPLE-SBS31_120_48
SAMPLE-SBS31_120_49
SAMPLE-SBS31_120_5
SAMPLE-SBS31_120_50
SAMPLE-SBS31_120_51
SAMPLE-SBS31_120_52
SAMPLE-SBS31_120_53
SAMPLE-SBS31_120_54
SAMPLE-SBS31_120_55
SAMPLE-SBS31_120_56
SAMPLE-SBS31_120_57
SAMPLE-SBS31_120_58
SAMPLE-SBS31_120_59
SAMPLE-SBS31_120_6
SAMPLE-SBS31_120_60
SAMPLE-SBS31_120_61
SAMPLE-SBS31_120_62

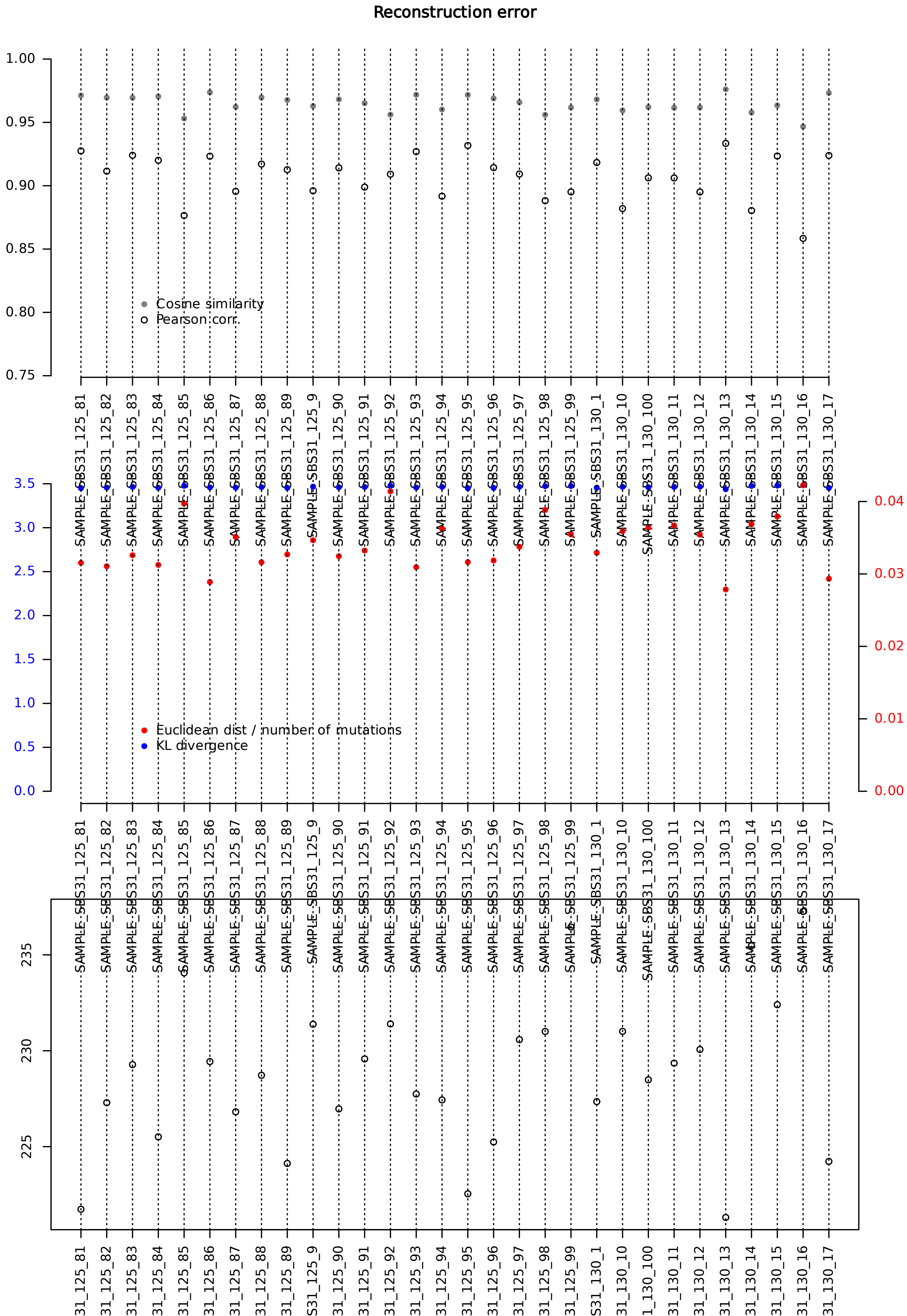

Reconstruction error
1.00
0.95
0.90
0.85
0.80
0.75
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
224
226
228
230
232
234
SAMPLE-SBS31_120_63
SAMPLE-SBS31_120_64
SAMPLE-SBS31_120_65
SAMPLE-SBS31_120_66
SAMPLE-SBS31_120_67
SAMPLE-SBS31_120_68
SAMPLE-SBS31_120_69
SAMPLE-SBS31_120_7
SAMPLE-SBS31_120_70
SAMPLE-SBS31_120_71
SAMPLE-SBS31_120_72
SAMPLE-SBS31_120_73
SAMPLE-SBS31_120_74
SAMPLE-SBS31_120_75
SAMPLE-SBS31_120_76
SAMPLE-SBS31_120_77
SAMPLE-SBS31_120_78
SAMPLE-SBS31_120_79
SAMPLE-SBS31_120_8
SAMPLE-SBS31_120_80
SAMPLE-SBS31_120_81
SAMPLE-SBS31_120_82
SAMPLE-SBS31_120_83
SAMPLE-SBS31_120_84
SAMPLE-SBS31_120_85
SAMPLE-SBS31_120_86
SAMPLE-SBS31_120_87
SAMPLE-SBS31_120_88
SAMPLE-SBS31_120_89
SAMPLE-SBS31_120_9

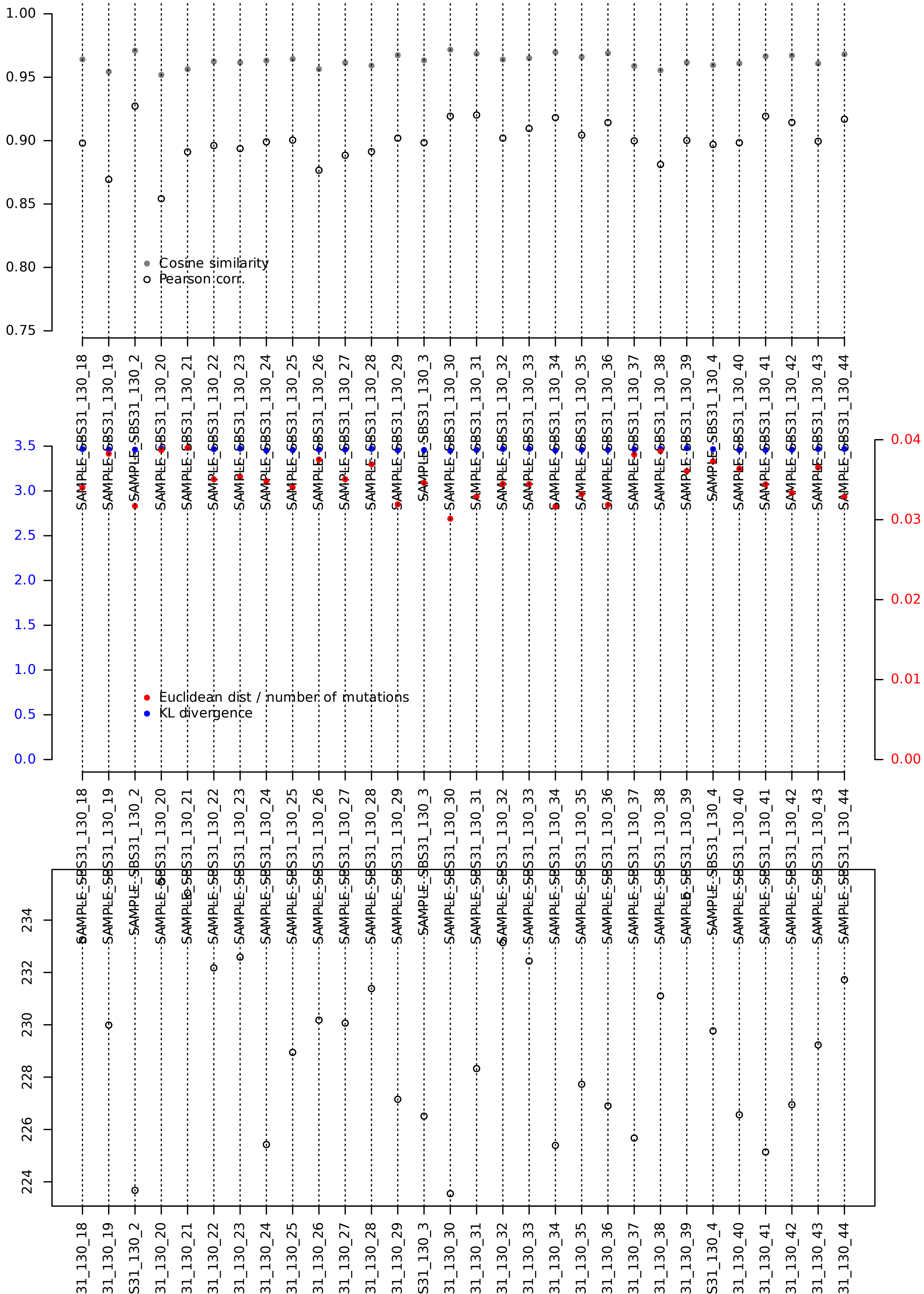
Reconstruction error



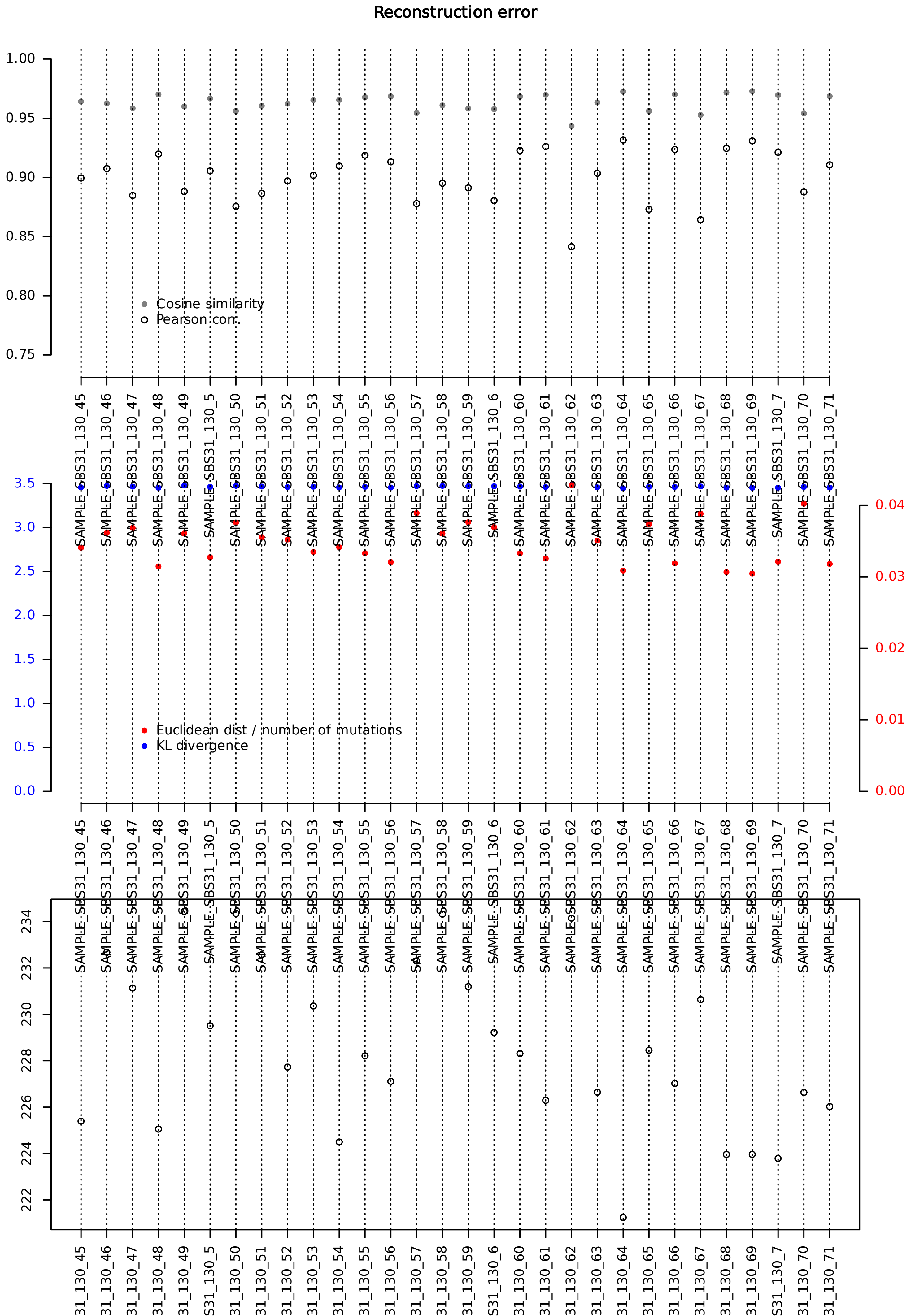

Reconstruction error
1.00
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
SAMPLE-SBS31_125_27
SAMPLE-SBS31_125_28
SAMPLE-SBS31_125_29
SAMPLE-SBS31_125_3
SAMPLE-SBS31_125_30
SAMPLE-SBS31_125_31
SAMPLE-SBS31_125_32
SAMPLE-SBS31_125_33
SAMPLE-SBS31_125_34
SAMPLE-SBS31_125_35
SAMPLE-SBS31_125_36
SAMPLE-SBS31_125_37
SAMPLE-SBS31_125_38
SAMPLE-SBS31_125_39
SAMPLE-SBS31_125_4
SAMPLE-SBS31_125_40
SAMPLE-SBS31_125_41
SAMPLE-SBS31_125_42
SAMPLE-SBS31_125_43
SAMPLE-SBS31_125_44
SAMPLE-SBS31_125_45
SAMPLE-SBS31_125_46
SAMPLE-SBS31_125_47
SAMPLE-SBS31_125_48
SAMPLE-SBS31_125_49
SAMPLE-SBS31_125_5
SAMPLE-SBS31_125_50
SAMPLE-SBS31_125_51
SAMPLE-SBS31_125_52
SAMPLE-SBS31_125_53

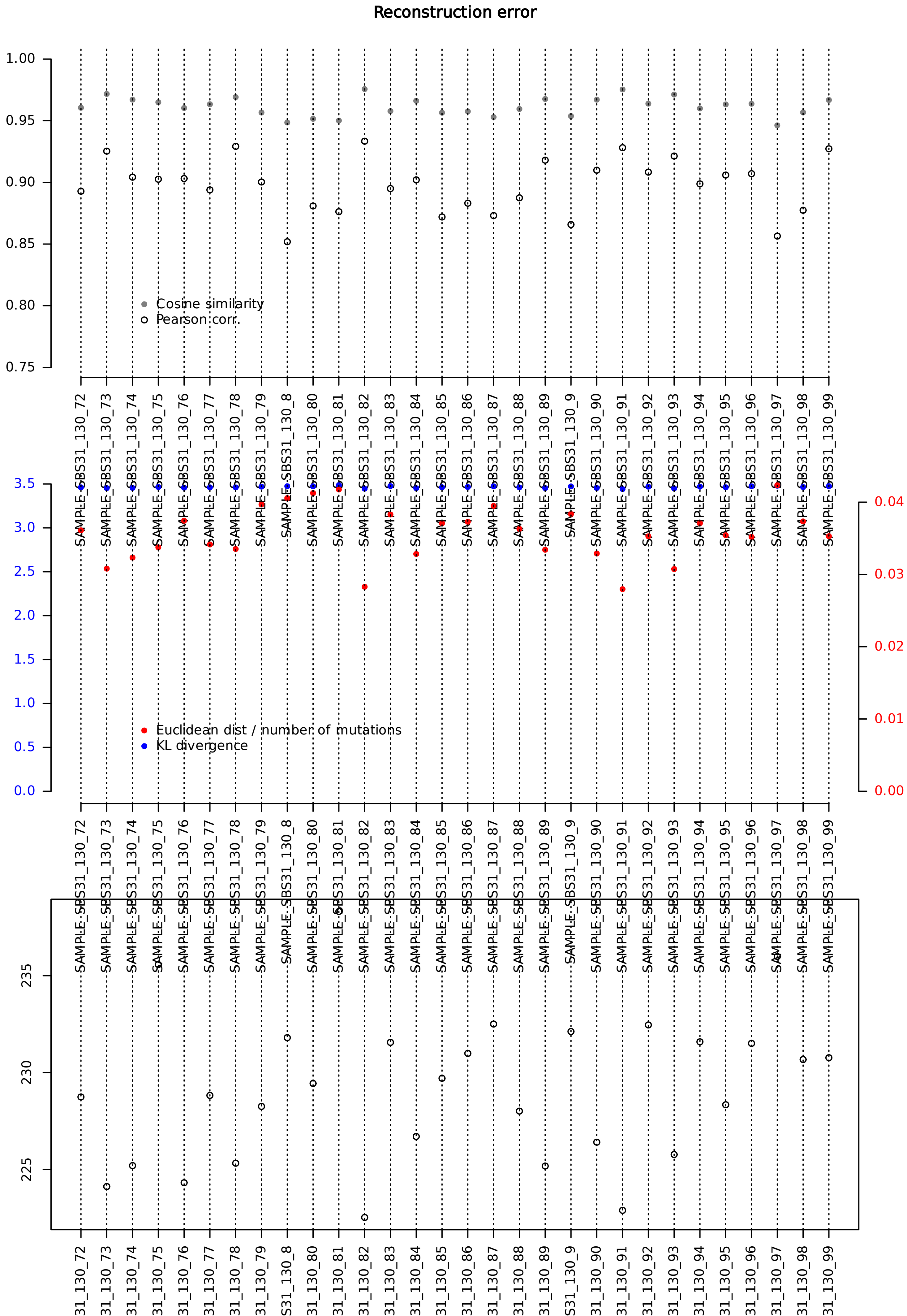

Reconstruction error
1.00
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
SAMPLE-SBS31_125_54
SAMPLE-SBS31_125_55
SAMPLE-SBS31_125_56
SAMPLE-SBS31_125_57
SAMPLE-SBS31_125_58
SAMPLE-SBS31_125_59
SAMPLE-SBS31_125_6
SAMPLE-SBS31_125_60
SAMPLE-SBS31_125_61
SAMPLE-SBS31_125_62
SAMPLE-SBS31_125_63
SAMPLE-SBS31_125_64
SAMPLE-SBS31_125_65
SAMPLE-SBS31_125_66
SAMPLE-SBS31_125_67
SAMPLE-SBS31_125_68
SAMPLE-SBS31_125_69
SAMPLE-SBS31_125_7
SAMPLE-SBS31_125_70
SAMPLE-SBS31_125_71
SAMPLE-SBS31_125_72
SAMPLE-SBS31_125_73
SAMPLE-SBS31_125_74
SAMPLE-SBS31_125_75
SAMPLE-SBS31_125_76
SAMPLE-SBS31_125_77
SAMPLE-SBS31_125_78
SAMPLE-SBS31_125_79
SAMPLE-SBS31_125_8
SAMPLE-SBS31_125_80

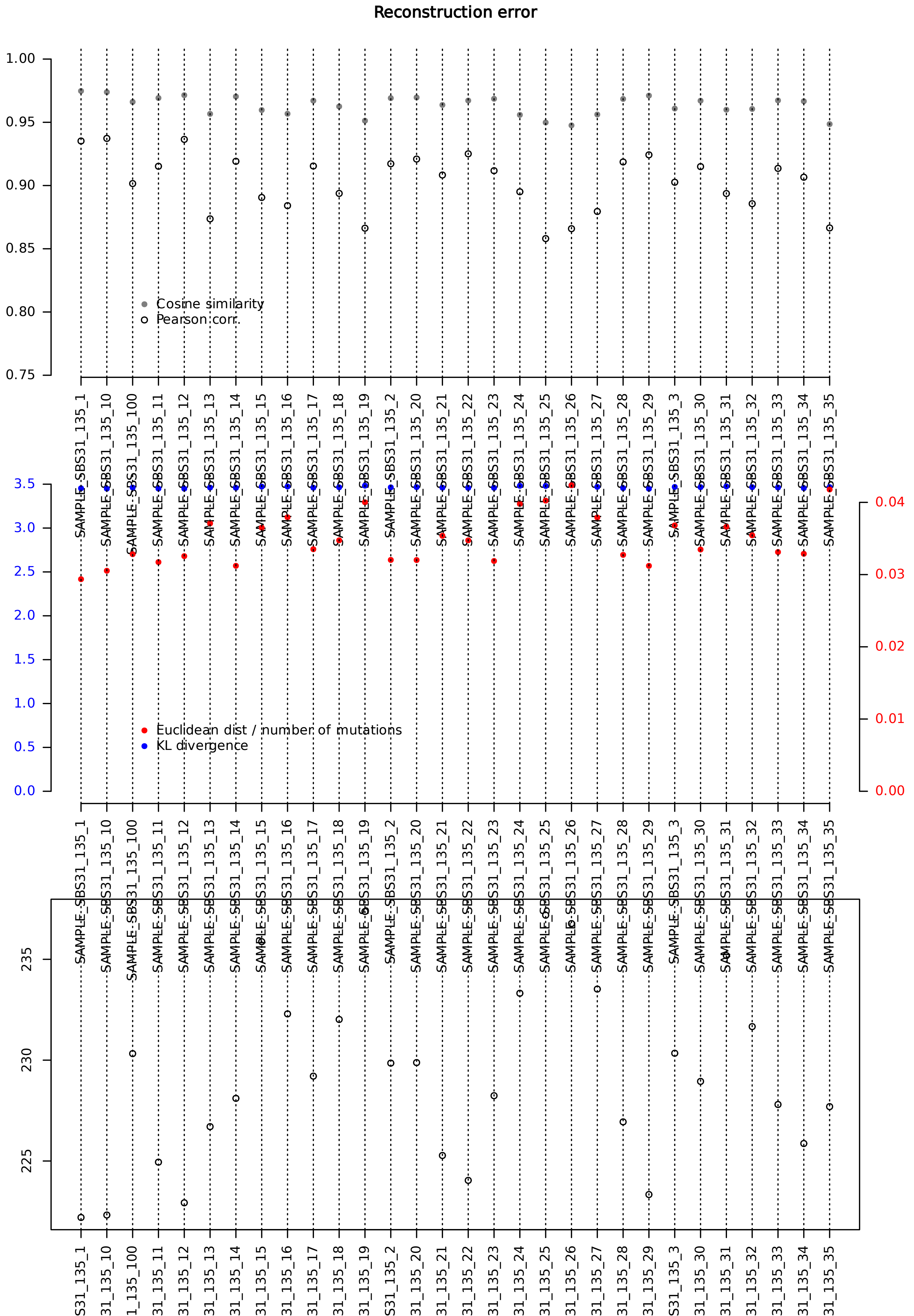

Reconstruction error
1.00
0.95
0.90
0.85
0.80
0.75
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
SAMPLE-SBS31_125_81
SAMPLE-SBS31_125_82
SAMPLE-SBS31_125_83
SAMPLE-SBS31_125_84
SAMPLE-SBS31_125_85
SAMPLE-SBS31_125_86
SAMPLE-SBS31_125_87
SAMPLE-SBS31_125_88
SAMPLE-SBS31_125_89
SAMPLE-SBS31_125_9
SAMPLE-SBS31_125_90
SAMPLE-SBS31_125_91
SAMPLE-SBS31_125_92
SAMPLE-SBS31_125_93
SAMPLE-SBS31_125_94
SAMPLE-SBS31_125_95
SAMPLE-SBS31_125_96
SAMPLE-SBS31_125_97
SAMPLE-SBS31_125_98
SAMPLE-SBS31_125_99
SAMPLE-SBS31_130_1
SAMPLE-SBS31_130_10
SAMPLE-SBS31_130_100
SAMPLE-SBS31_130_11
SAMPLE-SBS31_130_12
SAMPLE-SBS31_130_13
SAMPLE-SBS31_130_14
SAMPLE-SBS31_130_15
SAMPLE-SBS31_130_16
SAMPLE-SBS31_130_17

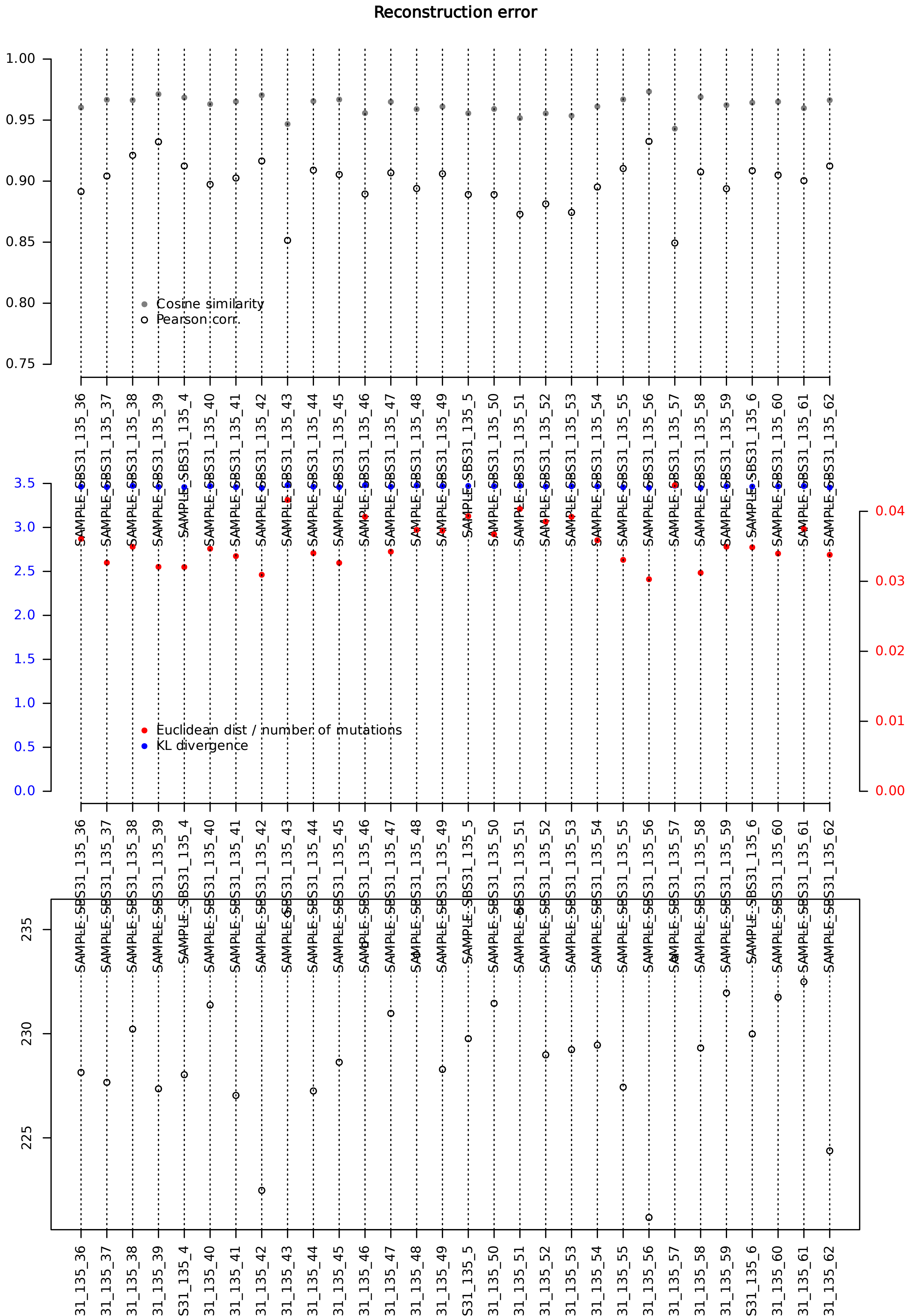


Reconstruction error


Reconstruction error
1.00
0.95
0.90
0.85
0.80
0.75
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
234
232
230
228
226
224
222
SAMPLE-SBS31_130_45
SAMPLE-SBS31_130_46
SAMPLE-SBS31_130_47
SAMPLE-SBS31_130_48
SAMPLE-SBS31_130_49
SAMPLE-SBS31_130_5
SAMPLE-SBS31_130_50
SAMPLE-SBS31_130_51
SAMPLE-SBS31_130_52
SAMPLE-SBS31_130_53
SAMPLE-SBS31_130_54
SAMPLE-SBS31_130_55
SAMPLE-SBS31_130_56
SAMPLE-SBS31_130_57
SAMPLE-SBS31_130_58
SAMPLE-SBS31_130_59
SAMPLE-SBS31_130_6
SAMPLE-SBS31_130_60
SAMPLE-SBS31_130_61
SAMPLE-SBS31_130_62
SAMPLE-SBS31_130_63
SAMPLE-SBS31_130_64
SAMPLE-SBS31_130_65
SAMPLE-SBS31_130_66
SAMPLE-SBS31_130_67
SAMPLE-SBS31_130_68
SAMPLE-SBS31_130_69
SAMPLE-SBS31_130_7
SAMPLE-SBS31_130_70
SAMPLE-SBS31_130_71


Reconstruction error
1.00
0.95
0.90
0.85
0.80
0.75
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
SAMPLE-SBS31_130_72
SAMPLE-SBS31_130_73
SAMPLE-SBS31_130_74
SAMPLE-SBS31_130_75
SAMPLE-SBS31_130_76
SAMPLE-SBS31_130_77
SAMPLE-SBS31_130_78
SAMPLE-SBS31_130_79
SAMPLE-SBS31_130_8
SAMPLE-SBS31_130_80
SAMPLE-SBS31_130_81
SAMPLE-SBS31_130_82
SAMPLE-SBS31_130_83
SAMPLE-SBS31_130_84
SAMPLE-SBS31_130_85
SAMPLE-SBS31_130_86
SAMPLE-SBS31_130_87
SAMPLE-SBS31_130_88
SAMPLE-SBS31_130_89
SAMPLE-SBS31_130_9
SAMPLE-SBS31_130_90
SAMPLE-SBS31_130_91
SAMPLE-SBS31_130_92
SAMPLE-SBS31_130_93
SAMPLE-SBS31_130_94
SAMPLE-SBS31_130_95
SAMPLE-SBS31_130_96
SAMPLE-SBS31_130_97
SAMPLE-SBS31_130_98
SAMPLE-SBS31_130_99


Reconstruction error
1.00
0.95
0.90
0.85
0.80
0.75
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
SAMPLE-SBS31_135_1
SAMPLE-SBS31_135_10
SAMPLE-SBS31_135_100
SAMPLE-SBS31_135_11
SAMPLE-SBS31_135_12
SAMPLE-SBS31_135_13
SAMPLE-SBS31_135_14
SAMPLE-SBS31_135_15
SAMPLE-SBS31_135_16
SAMPLE-SBS31_135_17
SAMPLE-SBS31_135_18
SAMPLE-SBS31_135_19
SAMPLE-SBS31_135_2
SAMPLE-SBS31_135_20
SAMPLE-SBS31_135_21
SAMPLE-SBS31_135_22
SAMPLE-SBS31_135_23
SAMPLE-SBS31_135_24
SAMPLE-SBS31_135_25
SAMPLE-SBS31_135_26
SAMPLE-SBS31_135_27
SAMPLE-SBS31_135_28
SAMPLE-SBS31_135_29
SAMPLE-SBS31_135_3
SAMPLE-SBS31_135_30
SAMPLE-SBS31_135_31
SAMPLE-SBS31_135_32
SAMPLE-SBS31_135_33
SAMPLE-SBS31_135_34
SAMPLE-SBS31_135_35


Reconstruction error
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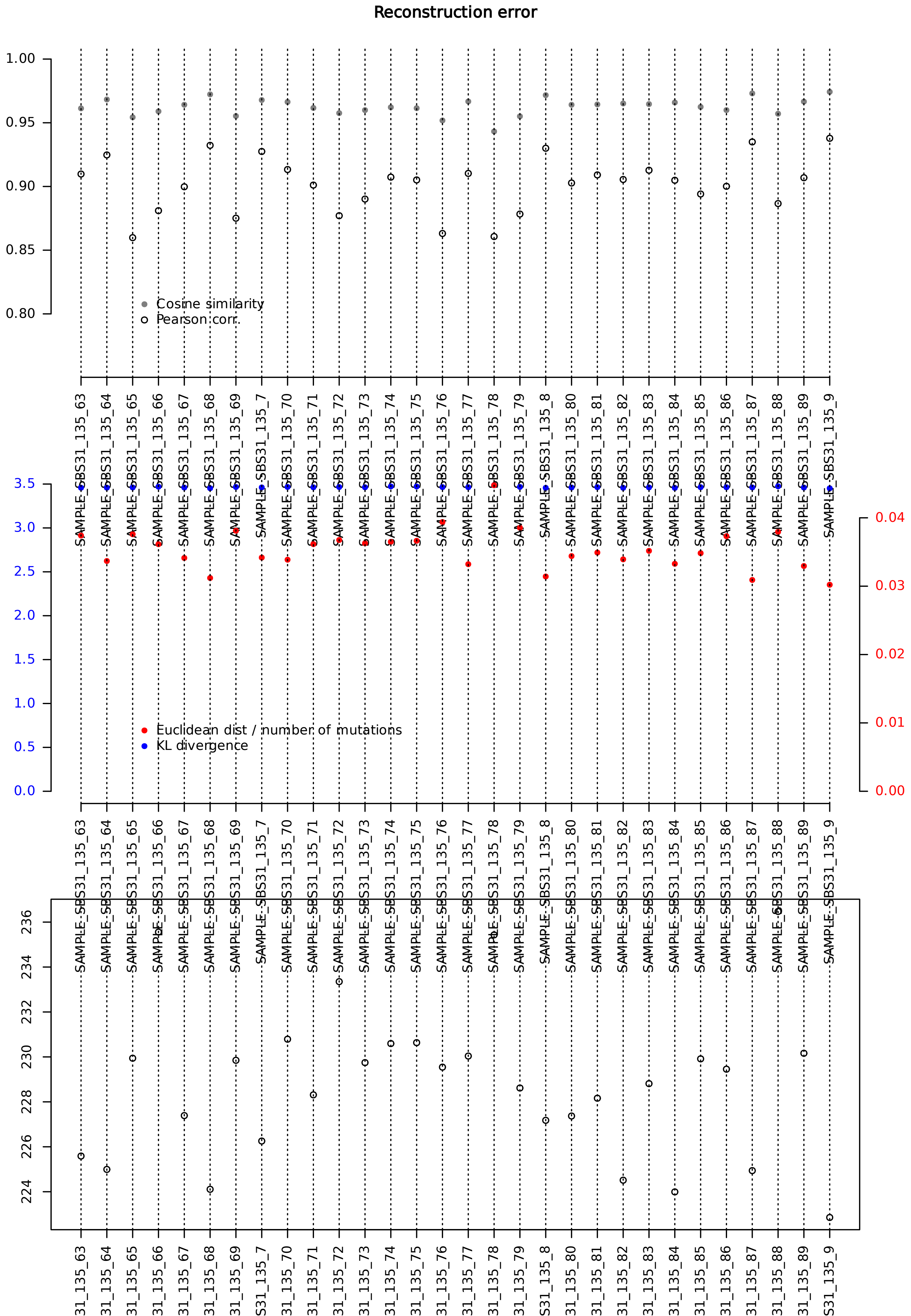
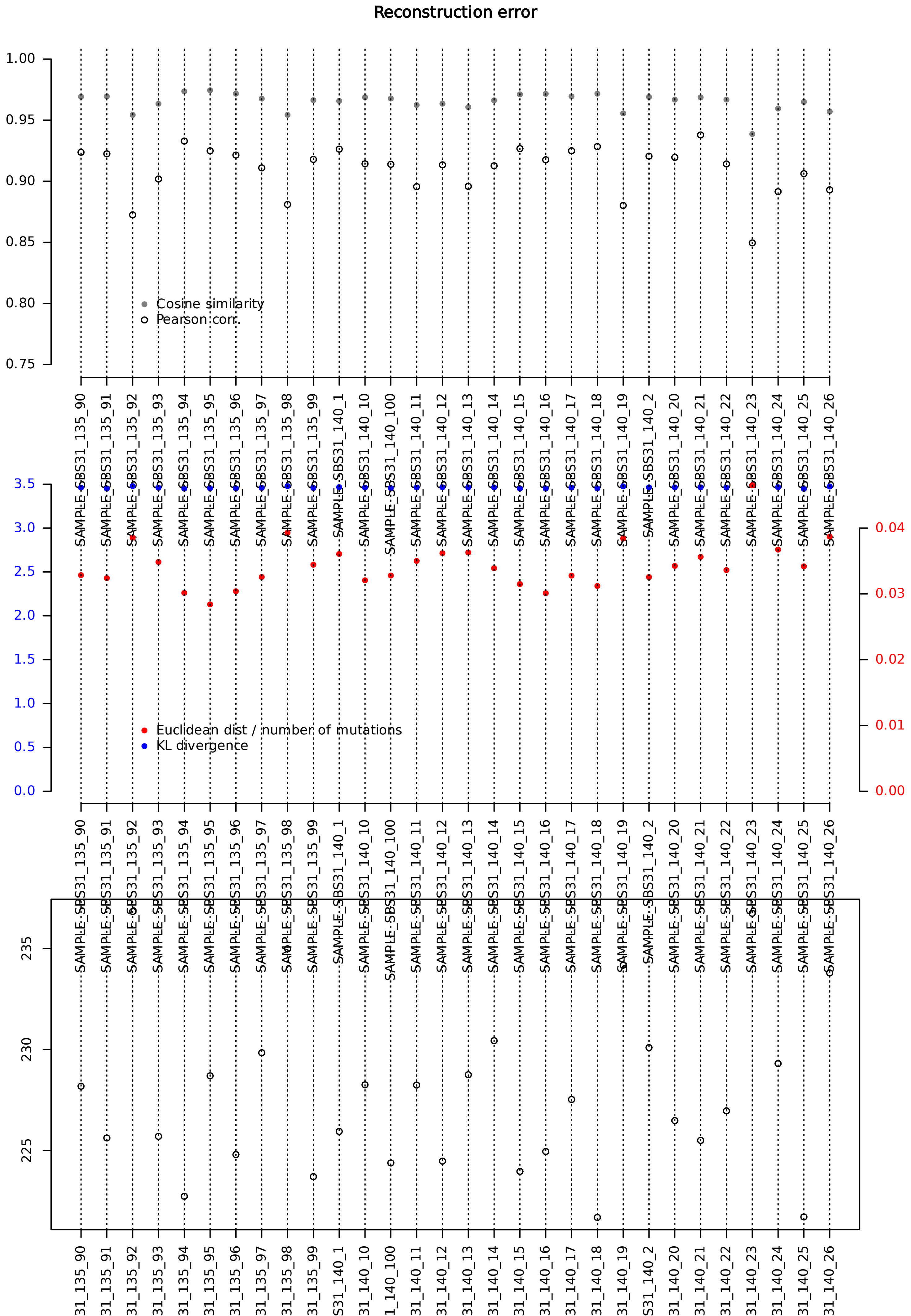
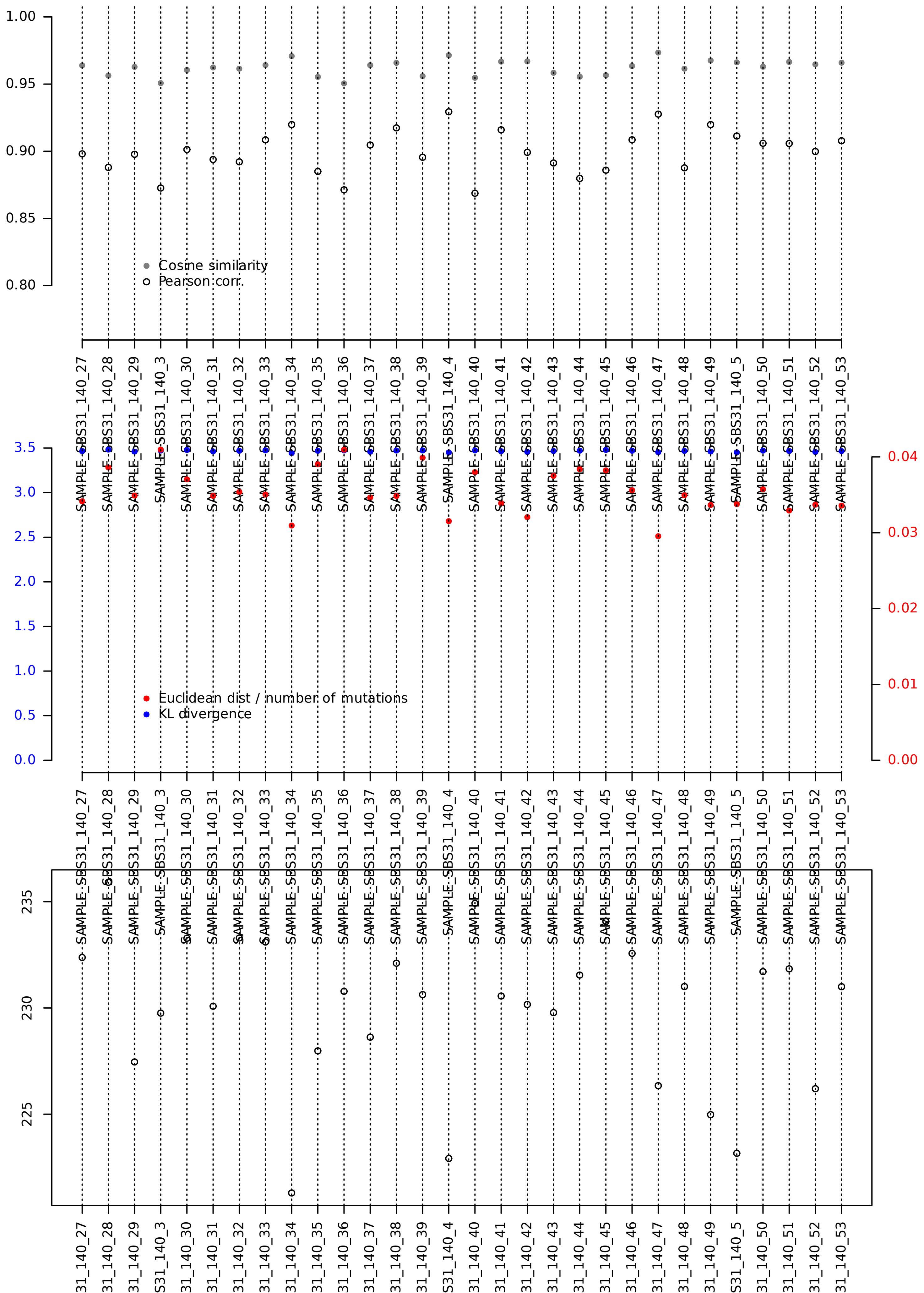
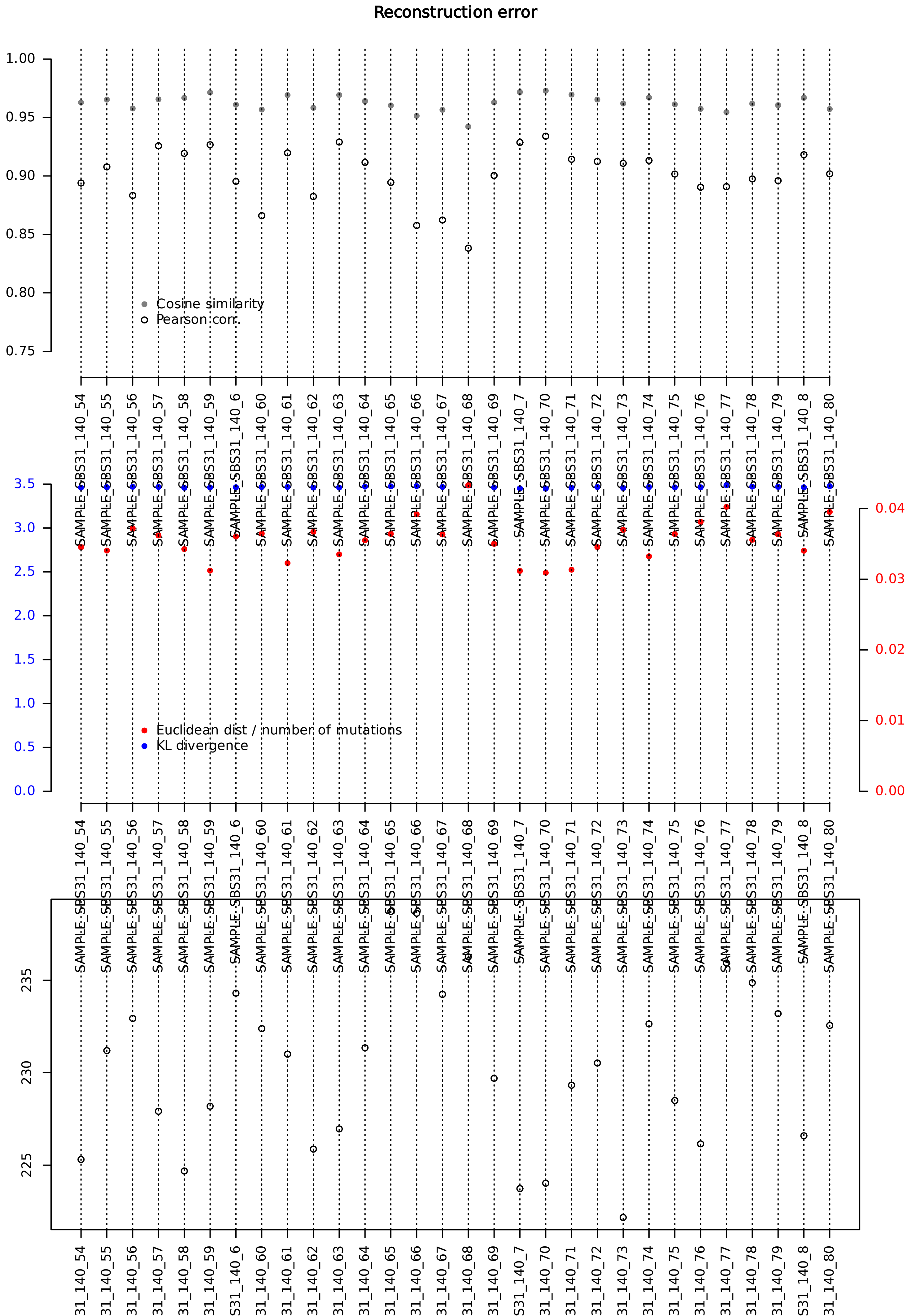
0.95
0.90
0.85
0.80
0.75
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
SAMPLE-SBS31_135_36
SAMPLE-SBS31_135_37
SAMPLE-SBS31_135_38
SAMPLE-SBS31_135_39
SAMPLE-SBS31_135_4
SAMPLE-SBS31_135_40
SAMPLE-SBS31_135_41
SAMPLE-SBS31_135_42
SAMPLE-SBS31_135_43
SAMPLE-SBS31_135_44
SAMPLE-SBS31_135_45
SAMPLE-SBS31_135_46
SAMPLE-SBS31_135_47
SAMPLE-SBS31_135_48
SAMPLE-SBS31_135_49
SAMPLE-SBS31_135_5
SAMPLE-SBS31_135_50
SAMPLE-SBS31_135_51
SAMPLE-SBS31_135_52
SAMPLE-SBS31_135_53
SAMPLE-SBS31_135_54
SAMPLE-SBS31_135_55
SAMPLE-SBS31_135_56
SAMPLE-SBS31_135_57
SAMPLE-SBS31_135_58
SAMPLE-SBS31_135_59
SAMPLE-SBS31_135_6
SAMPLE-SBS31_135_60
SAMPLE-SBS31_135_61
SAMPLE-SBS31_135_62

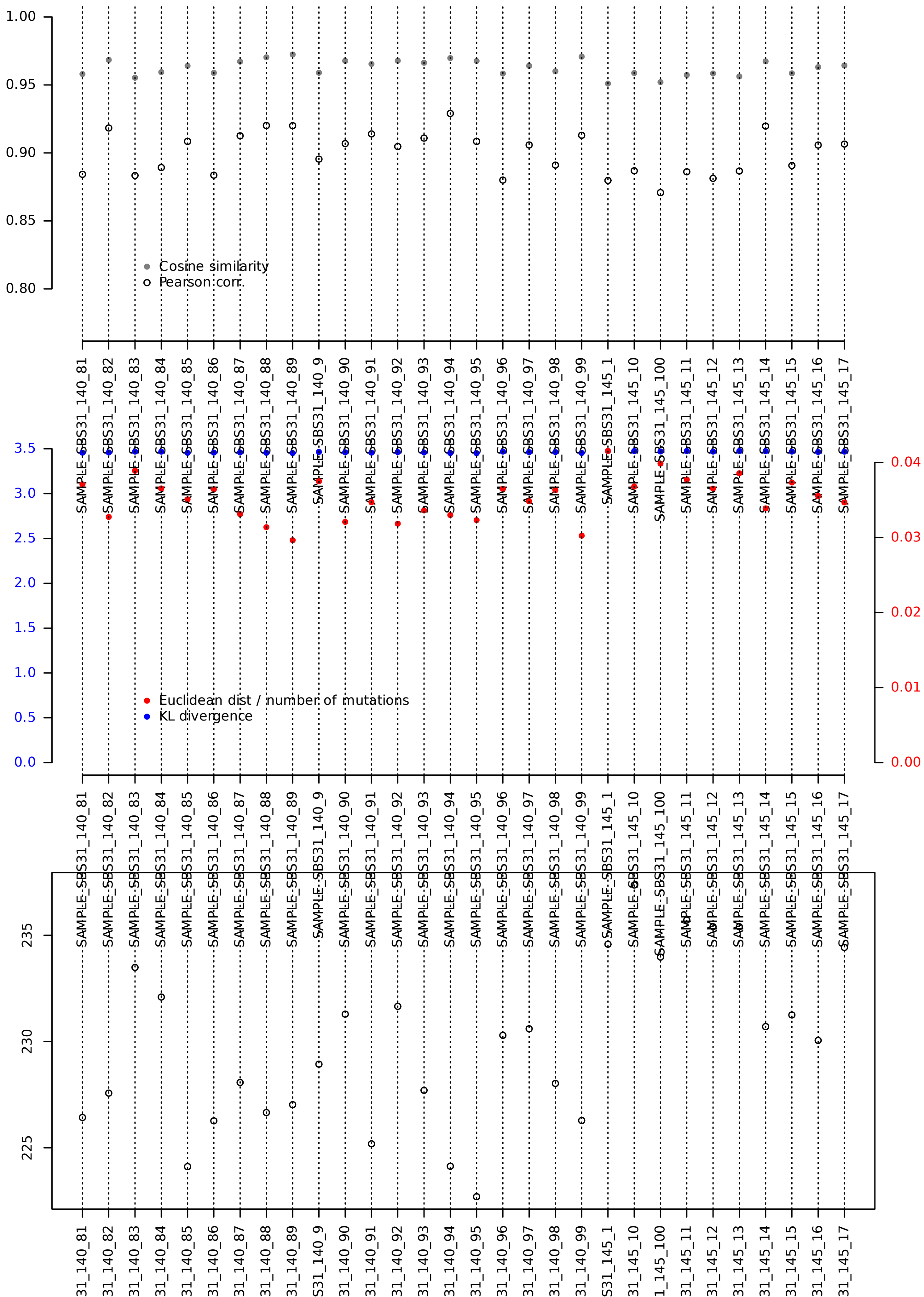

Reconstruction error
1.00
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
236
234
232
230
228
226
224
SAMPLE-SBS31_135_63
SAMPLE-SBS31_135_64
SAMPLE-SBS31_135_65
SAMPLE-SBS31_135_66
SAMPLE-SBS31_135_67
SAMPLE-SBS31_135_68
SAMPLE-SBS31_135_69
SAMPLE-SBS31_135_7
SAMPLE-SBS31_135_70
SAMPLE-SBS31_135_71
SAMPLE-SBS31_135_72
SAMPLE-SBS31_135_73
SAMPLE-SBS31_135_74
SAMPLE-SBS31_135_75
SAMPLE-SBS31_135_76
SAMPLE-SBS31_135_77
SAMPLE-SBS31_135_78
SAMPLE-SBS31_135_79
SAMPLE-SBS31_135_8
SAMPLE-SBS31_135_80
SAMPLE-SBS31_135_81
SAMPLE-SBS31_135_82
SAMPLE-SBS31_135_83
SAMPLE-SBS31_135_84
SAMPLE-SBS31_135_85
SAMPLE-SBS31_135_86
SAMPLE-SBS31_135_87
SAMPLE-SBS31_135_88
SAMPLE-SBS31_135_89
SAMPLE-SBS31_135_9

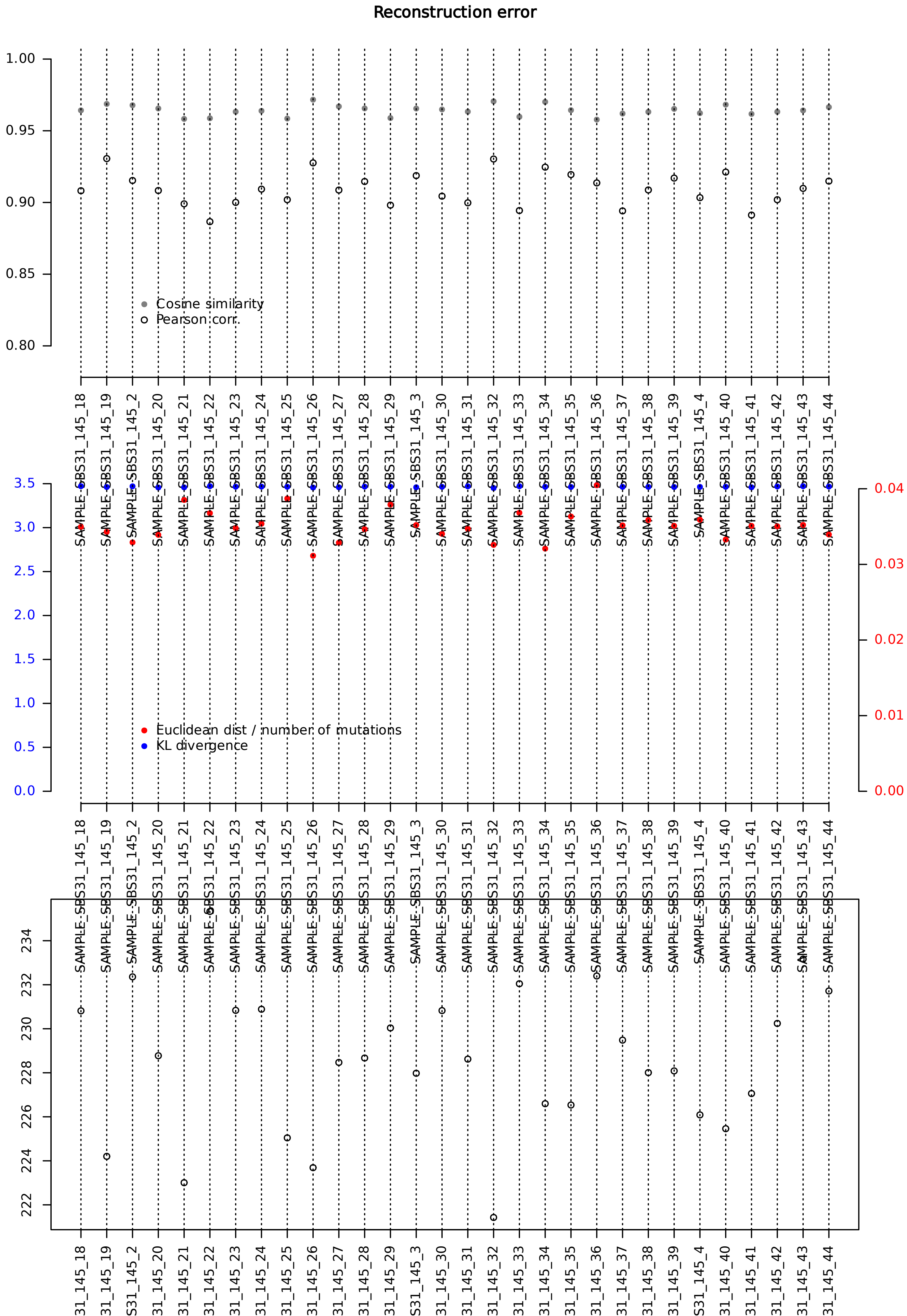

Reconstruction error
1.00
0.95
0.90
0.85
0.80
0.75
Cosine similarity
Pearson corr.
SAMPLE-SBS31_135_90
SAMPLE-SBS31_135_91
SAMPLE-SBS31_135_92
SAMPLE-SBS31_135_93
SAMPLE-SBS31_135_94
SAMPLE-SBS31_135_95
SAMPLE-SBS31_135_96
SAMPLE-SBS31_135_97
SAMPLE-SBS31_135_98
SAMPLE-SBS31_135_99
SAMPLE-SBS31_140_1
SAMPLE-SBS31_140_10
SAMPLE-SBS31_140_100
SAMPLE-SBS31_140_11
SAMPLE-SBS31_140_12
SAMPLE-SBS31_140_13
SAMPLE-SBS31_140_14
SAMPLE-SBS31_140_15
SAMPLE-SBS31_140_16
SAMPLE-SBS31_140_17
SAMPLE-SBS31_140_18
SAMPLE-SBS31_140_19
SAMPLE-SBS31_140_2
SAMPLE-SBS31_140_20
SAMPLE-SBS31_140_21
SAMPLE-SBS31_140_22
SAMPLE-SBS31_140_23
SAMPLE-SBS31_140_24
SAMPLE-SBS31_140_25
SAMPLE-SBS31_140_26
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225


Reconstruction error


Reconstruction error
1.00
0.95
0.90
0.85
0.80
0.75
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
SAMPLE-SBS31_140_54
SAMPLE-SBS31_140_55
SAMPLE-SBS31_140_56
SAMPLE-SBS31_140_57
SAMPLE-SBS31_140_58
SAMPLE-SBS31_140_59
SAMPLE-SBS31_140_6
SAMPLE-SBS31_140_60
SAMPLE-SBS31_140_61
SAMPLE-SBS31_140_62
SAMPLE-SBS31_140_63
SAMPLE-SBS31_140_64
SAMPLE-SBS31_140_65
SAMPLE-SBS31_140_66
SAMPLE-SBS31_140_67
SAMPLE-SBS31_140_68
SAMPLE-SBS31_140_69
SAMPLE-SBS31_140_7
SAMPLE-SBS31_140_70
SAMPLE-SBS31_140_71
SAMPLE-SBS31_140_72
SAMPLE-SBS31_140_73
SAMPLE-SBS31_140_74
SAMPLE-SBS31_140_75
SAMPLE-SBS31_140_76
SAMPLE-SBS31_140_77
SAMPLE-SBS31_140_78
SAMPLE-SBS31_140_79
SAMPLE-SBS31_140_8
SAMPLE-SBS31_140_80

Reconstruction error




Reconstruction error
1.00
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
234
232
230
228
226
224
222
SAMPLE-SBS31_145_18
SAMPLE-SBS31_145_19
SAMPLE-SBS31_145_2
SAMPLE-SBS31_145_20
SAMPLE-SBS31_145_21
SAMPLE-SBS31_145_22
SAMPLE-SBS31_145_23
SAMPLE-SBS31_145_24
SAMPLE-SBS31_145_25
SAMPLE-SBS31_145_26
SAMPLE-SBS31_145_27
SAMPLE-SBS31_145_28
SAMPLE-SBS31_145_29
SAMPLE-SBS31_145_3
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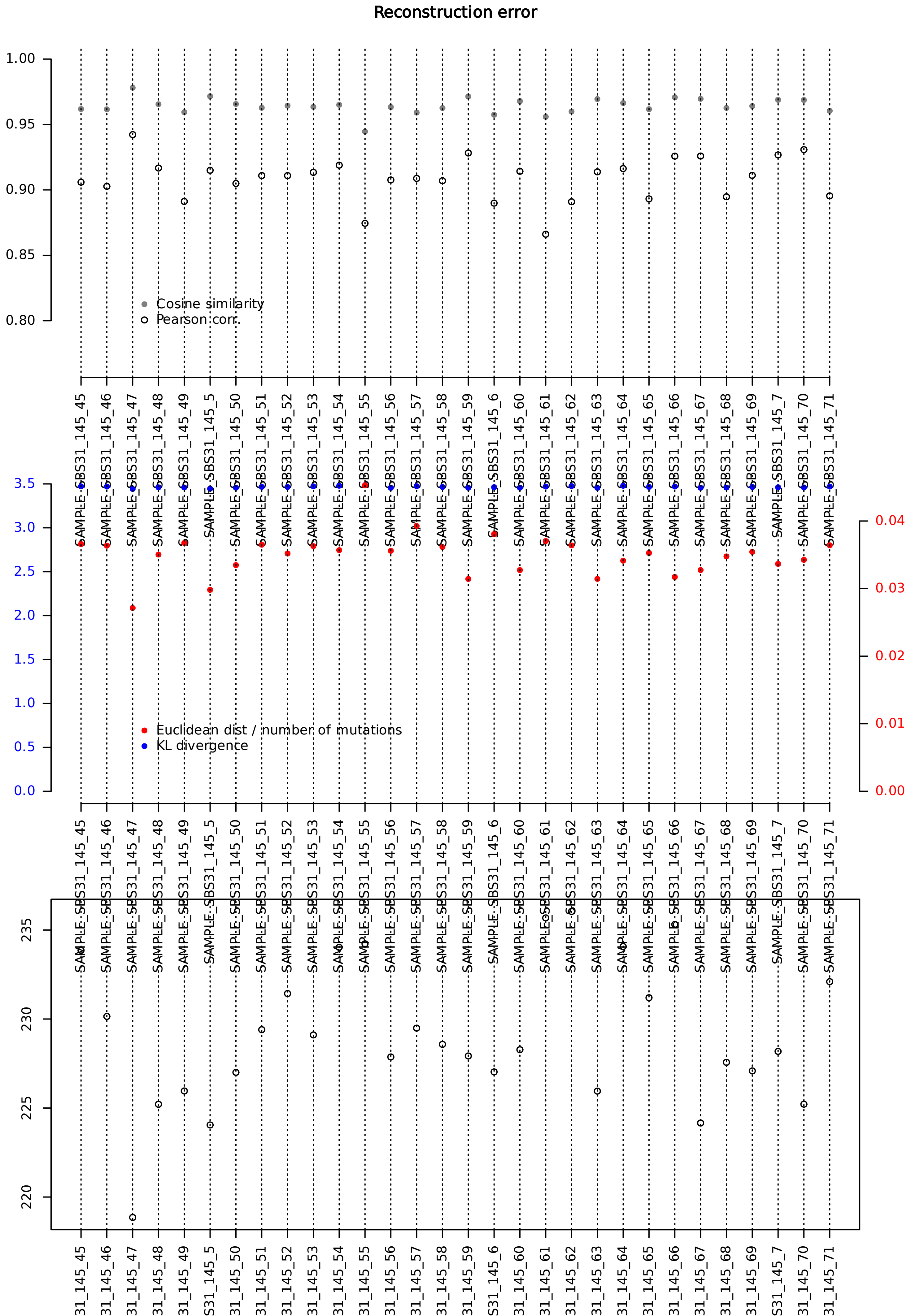
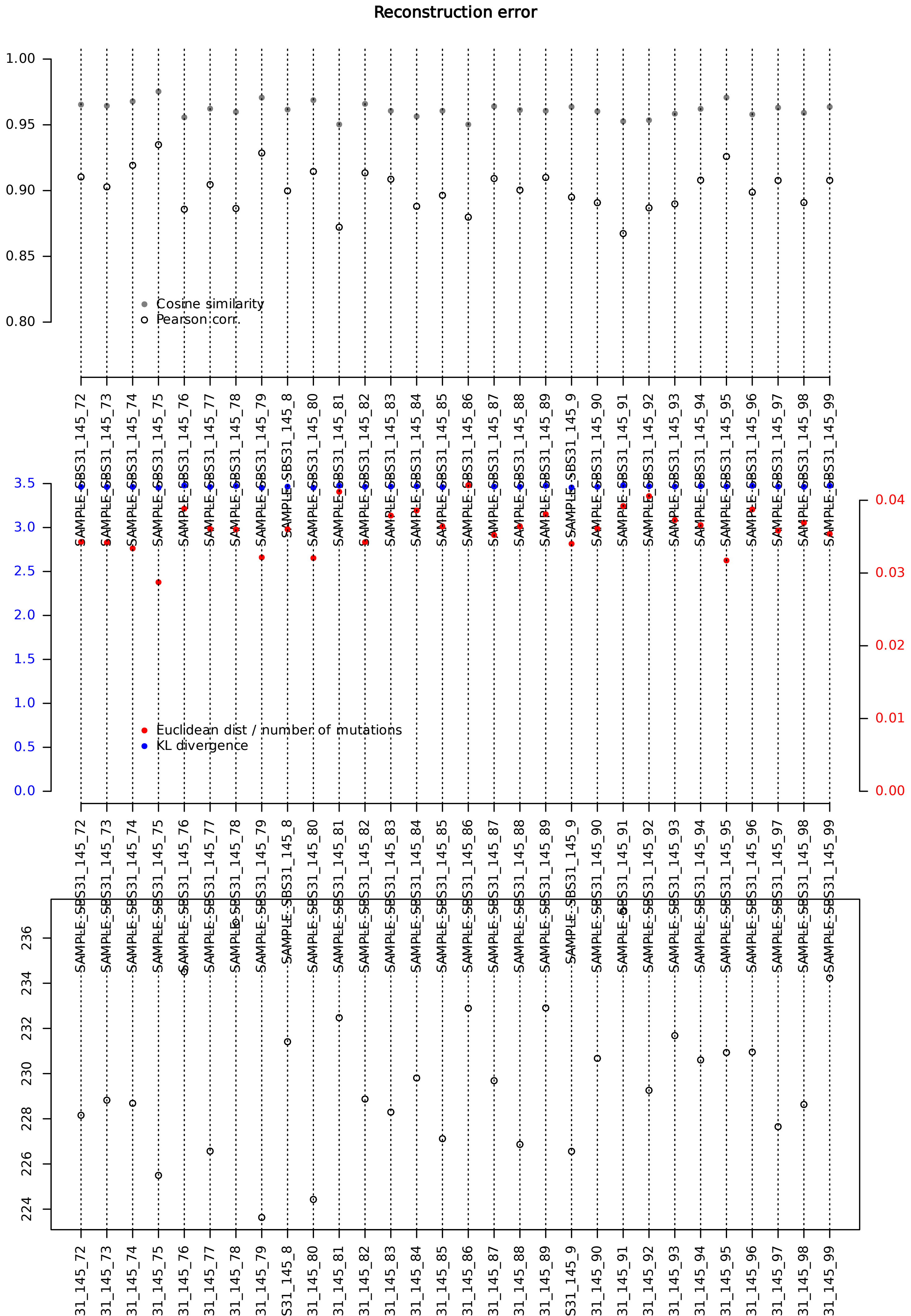
SAMPLE-SBS31_145_32
SAMPLE-SBS31_145_33
SAMPLE-SBS31_145_34
SAMPLE-SBS31_145_35
SAMPLE-SBS31_145_36
SAMPLE-SBS31_145_37
SAMPLE-SBS31_145_38
SAMPLE-SBS31_145_39
SAMPLE-SBS31_145_4
SAMPLE-SBS31_145_40
SAMPLE-SBS31_145_41
SAMPLE-SBS31_145_42
SAMPLE-SBS31_145_43
SAMPLE-SBS31_145_44


Reconstruction error
1.00
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
SAMPLE-SBS31_145_45
SAMPLE-SBS31_145_46
SAMPLE-SBS31_145_47
SAMPLE-SBS31_145_48
SAMPLE-SBS31_145_49
SAMPLE-SBS31_145_5
SAMPLE-SBS31_145_50
SAMPLE-SBS31_145_51
SAMPLE-SBS31_145_52
SAMPLE-SBS31_145_53
SAMPLE-SBS31_145_54
SAMPLE-SBS31_145_55
SAMPLE-SBS31_145_56
SAMPLE-SBS31_145_57
SAMPLE-SBS31_145_58
SAMPLE-SBS31_145_59
SAMPLE-SBS31_145_6
SAMPLE-SBS31_145_60
SAMPLE-SBS31_145_61
SAMPLE-SBS31_145_62
SAMPLE-SBS31_145_63
SAMPLE-SBS31_145_64
SAMPLE-SBS31_145_65
SAMPLE-SBS31_145_66
SAMPLE-SBS31_145_67
SAMPLE-SBS31_145_68
SAMPLE-SBS31_145_69
SAMPLE-SBS31_145_7
SAMPLE-SBS31_145_70
SAMPLE-SBS31_145_71
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
220


Reconstruction error
1.00
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
236
234
232
230
228
226
224
SAMPLE-SBS31_145_72
SAMPLE-SBS31_145_73
SAMPLE-SBS31_145_74
SAMPLE-SBS31_145_75
SAMPLE-SBS31_145_76
SAMPLE-SBS31_145_77
SAMPLE-SBS31_145_78
SAMPLE-SBS31_145_79
SAMPLE-SBS31_145_8
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SAMPLE-SBS31_145_81
SAMPLE-SBS31_145_82
SAMPLE-SBS31_145_83
SAMPLE-SBS31_145_84
SAMPLE-SBS31_145_85
SAMPLE-SBS31_145_86
SAMPLE-SBS31_145_87
SAMPLE-SBS31_145_88
SAMPLE-SBS31_145_89
SAMPLE-SBS31_145_9
SAMPLE-SBS31_145_90
SAMPLE-SBS31_145_91
SAMPLE-SBS31_145_92
SAMPLE-SBS31_145_93
SAMPLE-SBS31_145_94
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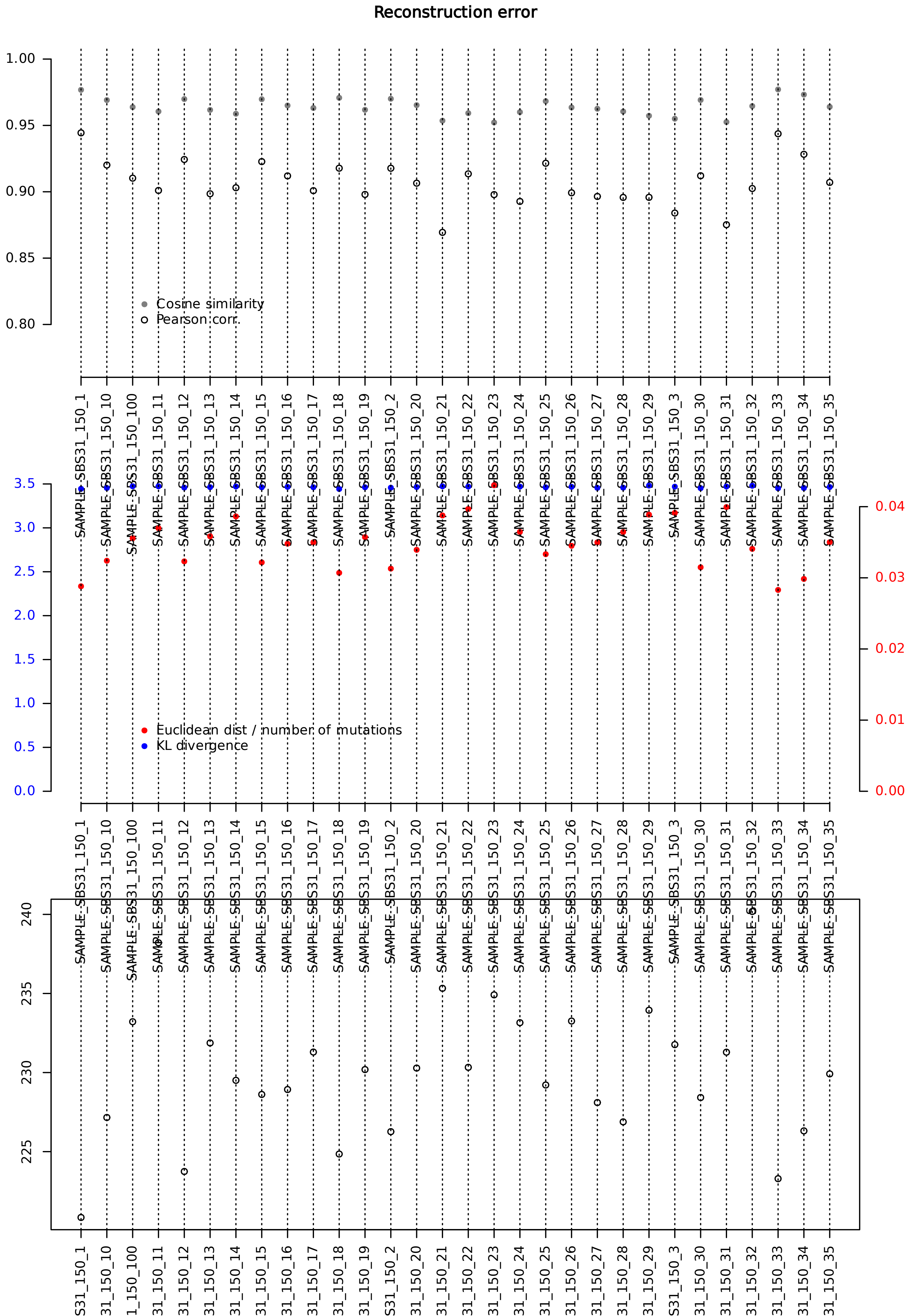
SAMPLE-SBS31_145_96
SAMPLE-SBS31_145_97
SAMPLE-SBS31_145_98
SAMPLE-SBS31_145_99


Reconstruction error
1.00
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
SAMPLE-SBS31_150_1
SAMPLE-SBS31_150_10
SAMPLE-SBS31_150_100
SAMPLE-SBS31_150_11
SAMPLE-SBS31_150_12
SAMPLE-SBS31_150_13
SAMPLE-SBS31_150_14
SAMPLE-SBS31_150_15
SAMPLE-SBS31_150_16
SAMPLE-SBS31_150_17
SAMPLE-SBS31_150_18
SAMPLE-SBS31_150_19
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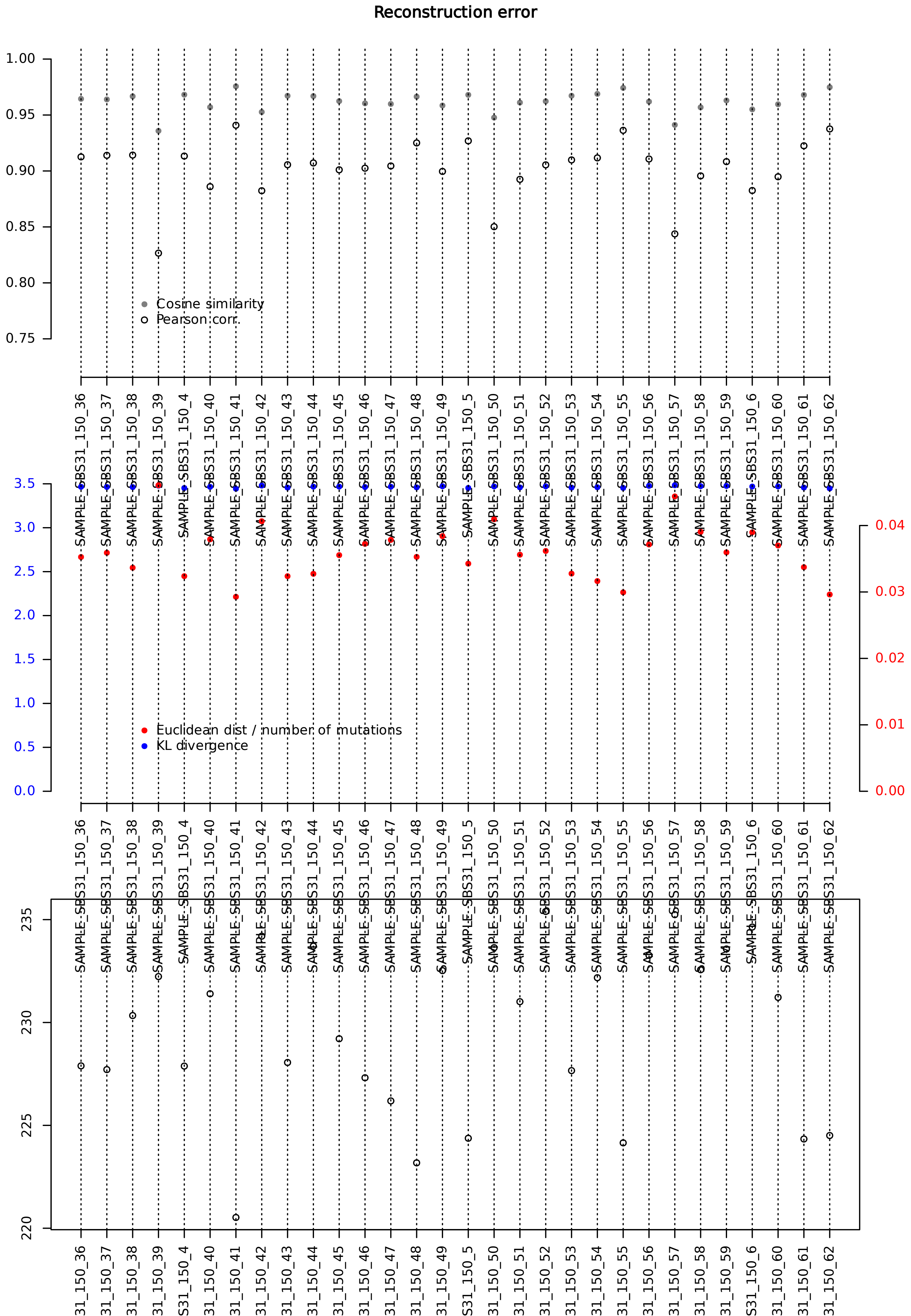
SAMPLE-SBS31_150_28
SAMPLE-SBS31_150_29
SAMPLE-SBS31_150_3
SAMPLE-SBS31_150_30
SAMPLE-SBS31_150_31
SAMPLE-SBS31_150_32
SAMPLE-SBS31_150_33
SAMPLE-SBS31_150_34
SAMPLE-SBS31_150_35
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
240
235
230
225


Reconstruction error
1.00
0.95
0.90
0.85
0.80
0.75
● Cosine similarity
○ Pearson corr.
SAMPLE-SBS31_150_36
SAMPLE-SBS31_150_37
SAMPLE-SBS31_150_38
SAMPLE-SBS31_150_39
SAMPLE-SBS31_150_4
SAMPLE-SBS31_150_40
SAMPLE-SBS31_150_41
SAMPLE-SBS31_150_42
SAMPLE-SBS31_150_43
SAMPLE-SBS31_150_44
SAMPLE-SBS31_150_45
SAMPLE-SBS31_150_46
SAMPLE-SBS31_150_47
SAMPLE-SBS31_150_48
SAMPLE-SBS31_150_49
SAMPLE-SBS31_150_5
SAMPLE-SBS31_150_50
SAMPLE-SBS31_150_51
SAMPLE-SBS31_150_52
SAMPLE-SBS31_150_53
SAMPLE-SBS31_150_54
SAMPLE-SBS31_150_55
SAMPLE-SBS31_150_56
SAMPLE-SBS31_150_57
SAMPLE-SBS31_150_58
SAMPLE-SBS31_150_59
SAMPLE-SBS31_150_6
SAMPLE-SBS31_150_60
SAMPLE-SBS31_150_61
SAMPLE-SBS31_150_62
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
● Euclidean dist / number of mutations
● KL divergence
SAMPLE-SBS31_150_36
SAMPLE-SBS31_150_37
SAMPLE-SBS31_150_38
SAMPLE-SBS31_150_39
SAMPLE-SBS31_150_4
SAMPLE-SBS31_150_40
SAMPLE-SBS31_150_41
SAMPLE-SBS31_150_42
SAMPLE-SBS31_150_43
SAMPLE-SBS31_150_44
SAMPLE-SBS31_150_45
SAMPLE-SBS31_150_46
SAMPLE-SBS31_150_47
SAMPLE-SBS31_150_48
SAMPLE-SBS31_150_49
SAMPLE-SBS31_150_5
SAMPLE-SBS31_150_50
SAMPLE-SBS31_150_51
SAMPLE-SBS31_150_52
SAMPLE-SBS31_150_53
SAMPLE-SBS31_150_54
SAMPLE-SBS31_150_55
SAMPLE-SBS31_150_56
SAMPLE-SBS31_150_57
SAMPLE-SBS31_150_58
SAMPLE-SBS31_150_59
SAMPLE-SBS31_150_6
SAMPLE-SBS31_150_60
SAMPLE-SBS31_150_61
SAMPLE-SBS31_150_62
235
230
225
220
31_150_36
31_150_37
31_150_38
31_150_39
S31_150_4
31_150_40
31_150_41
31_150_42
31_150_43
31_150_44
31_150_45
31_150_46
31_150_47
31_150_48
31_150_49
S31_150_5
31_150_50
31_150_51
31_150_52
31_150_53
31_150_54
31_150_55
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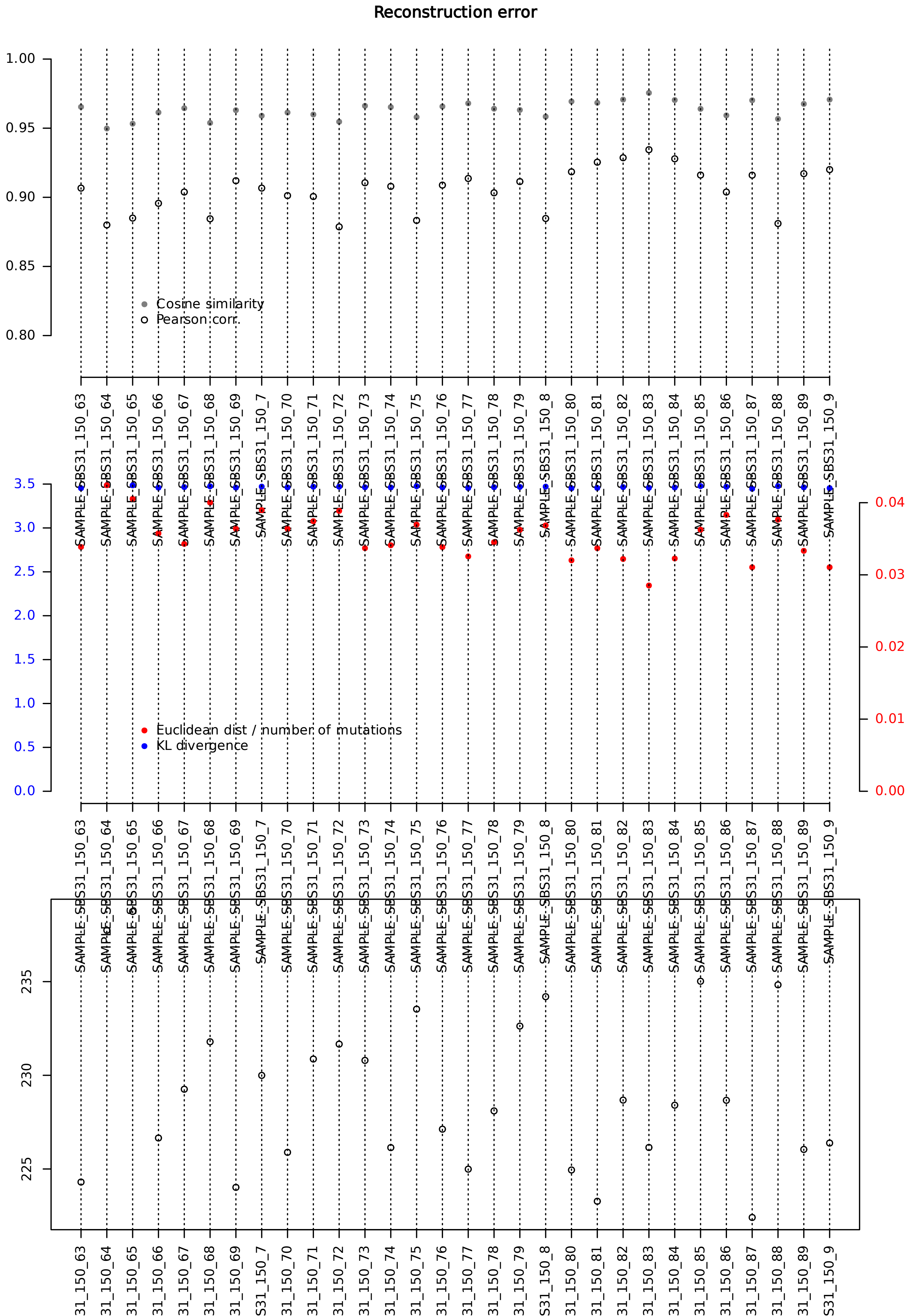
31_150_58
31_150_59
S31_150_6
31_150_60
31_150_61
31_150_62


Reconstruction error
1.00
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
SAMPLE_SBS31_150_63
SAMPLE_SBS31_150_64
SAMPLE_SBS31_150_65
SAMPLE_SBS31_150_66
SAMPLE_SBS31_150_67
SAMPLE_SBS31_150_68
SAMPLE_SBS31_150_69
SAMPLE_SBS31_150_7
SAMPLE_SBS31_150_70
SAMPLE_SBS31_150_71
SAMPLE_SBS31_150_72
SAMPLE_SBS31_150_73
SAMPLE_SBS31_150_74
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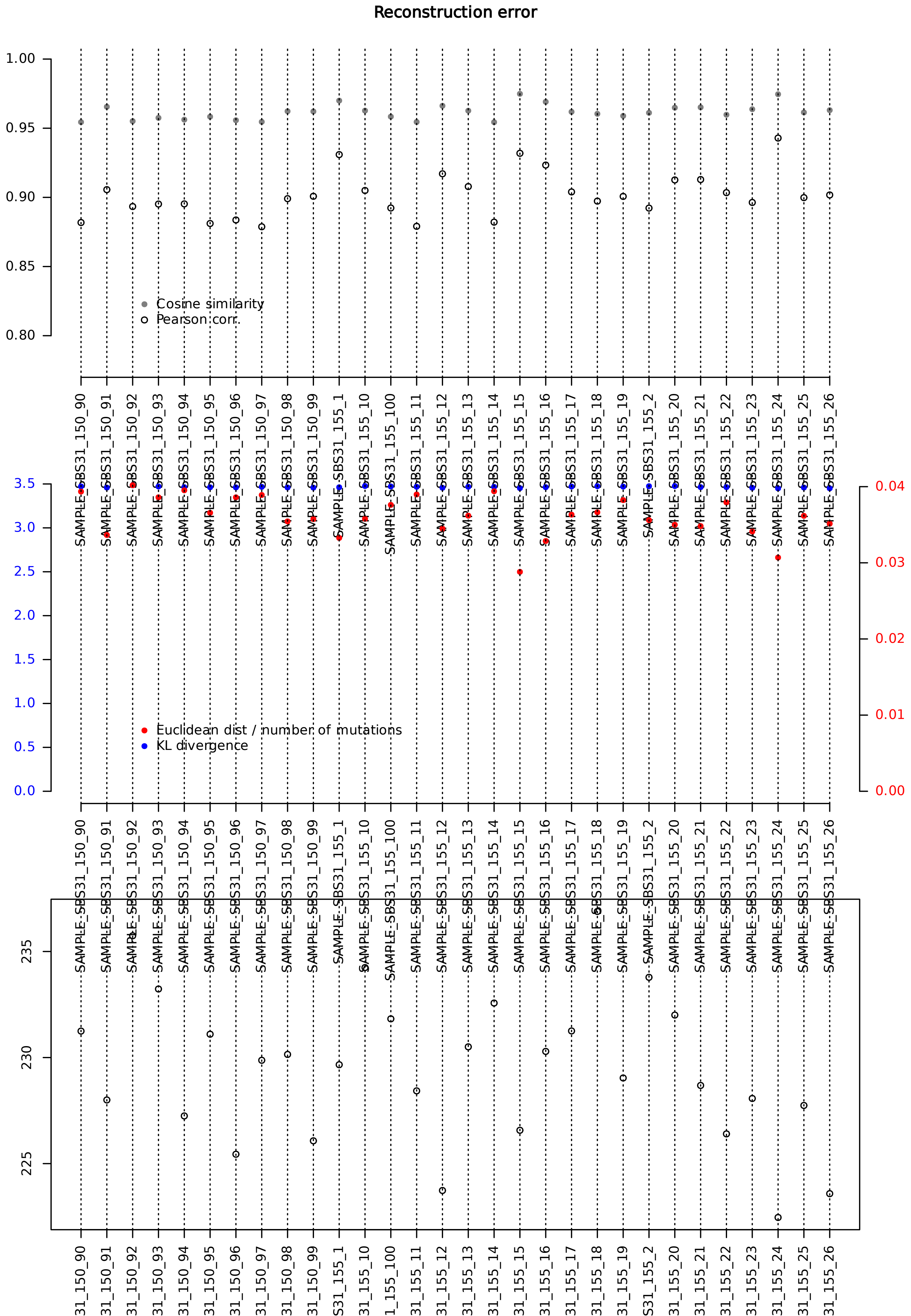
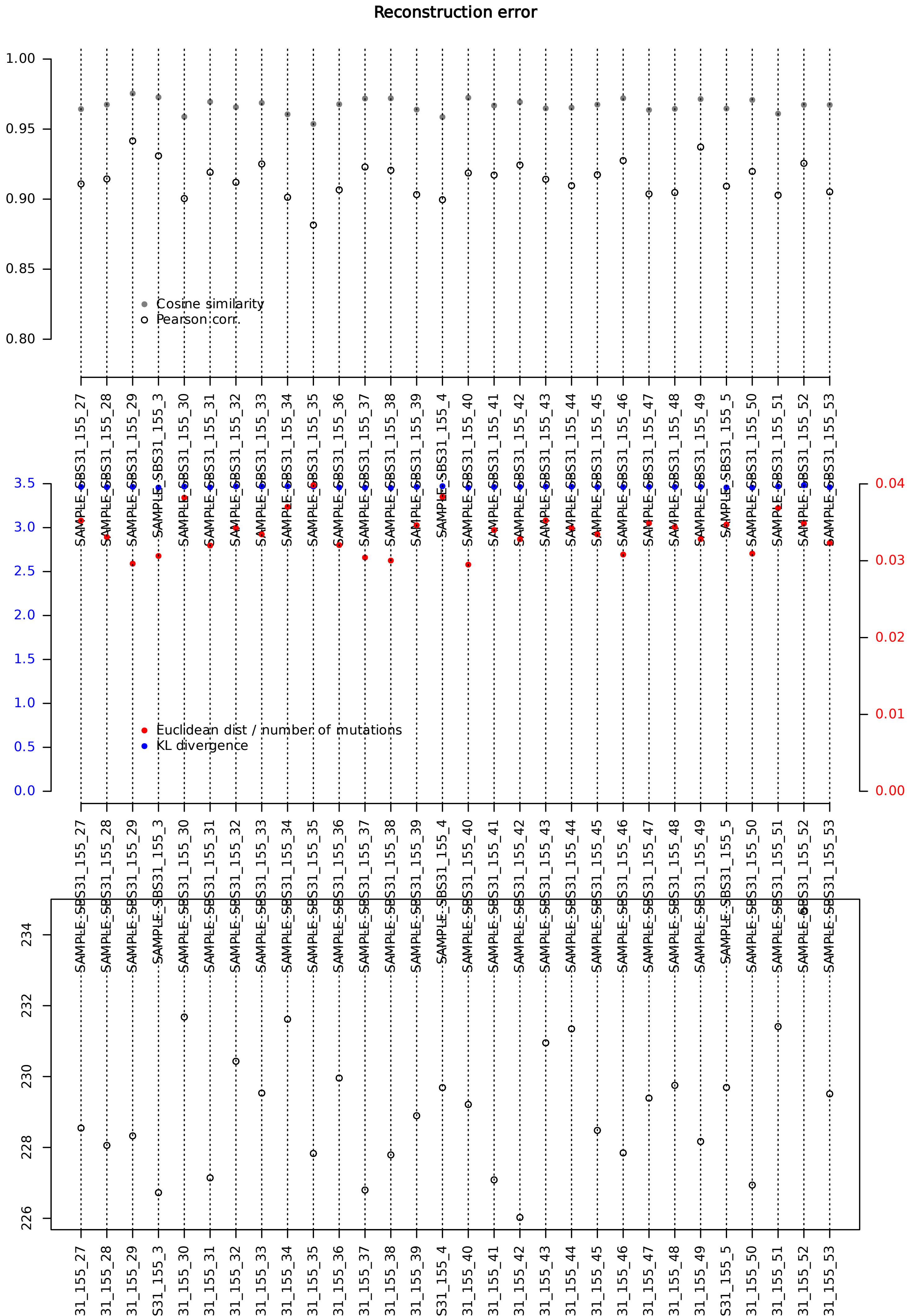
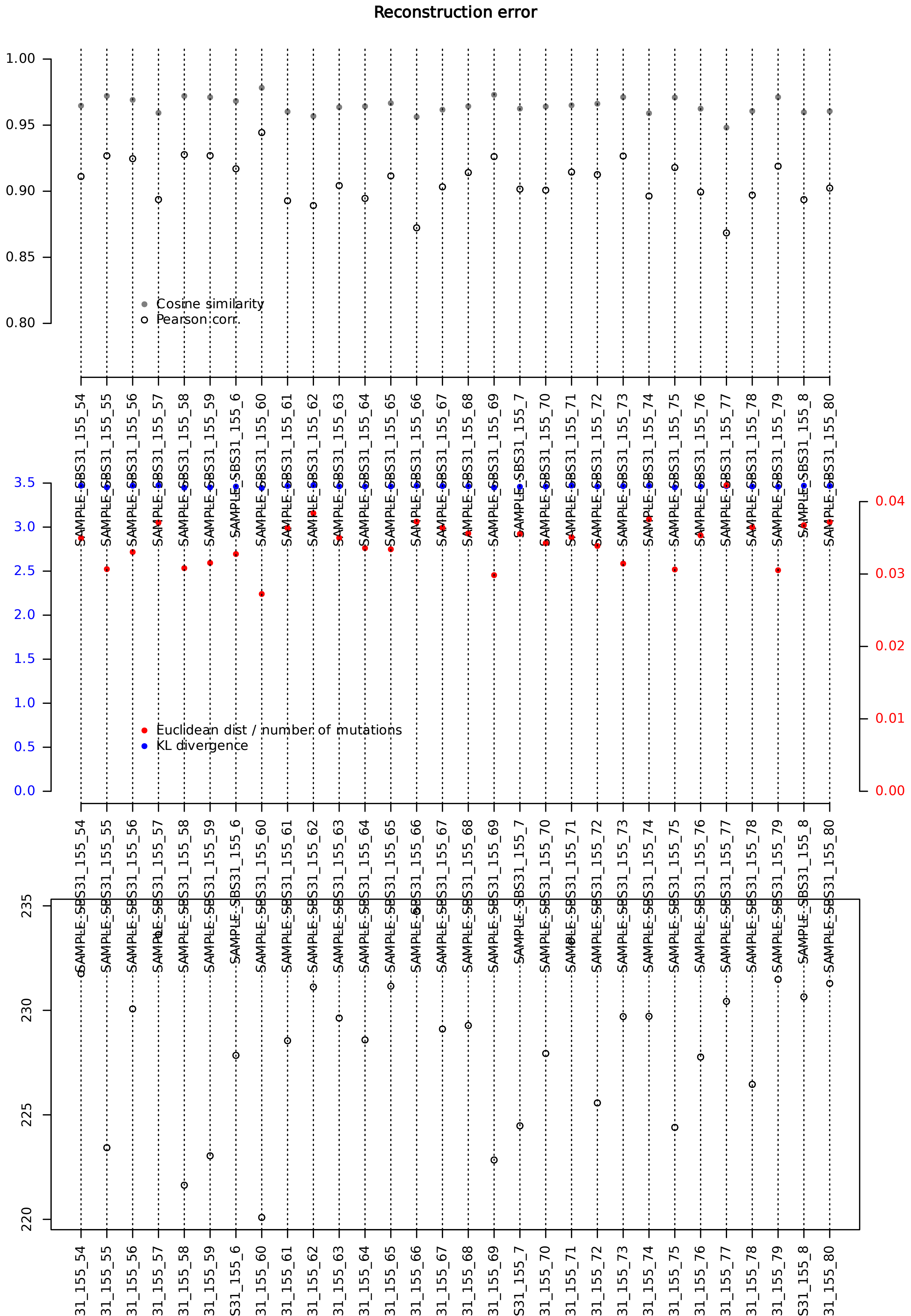
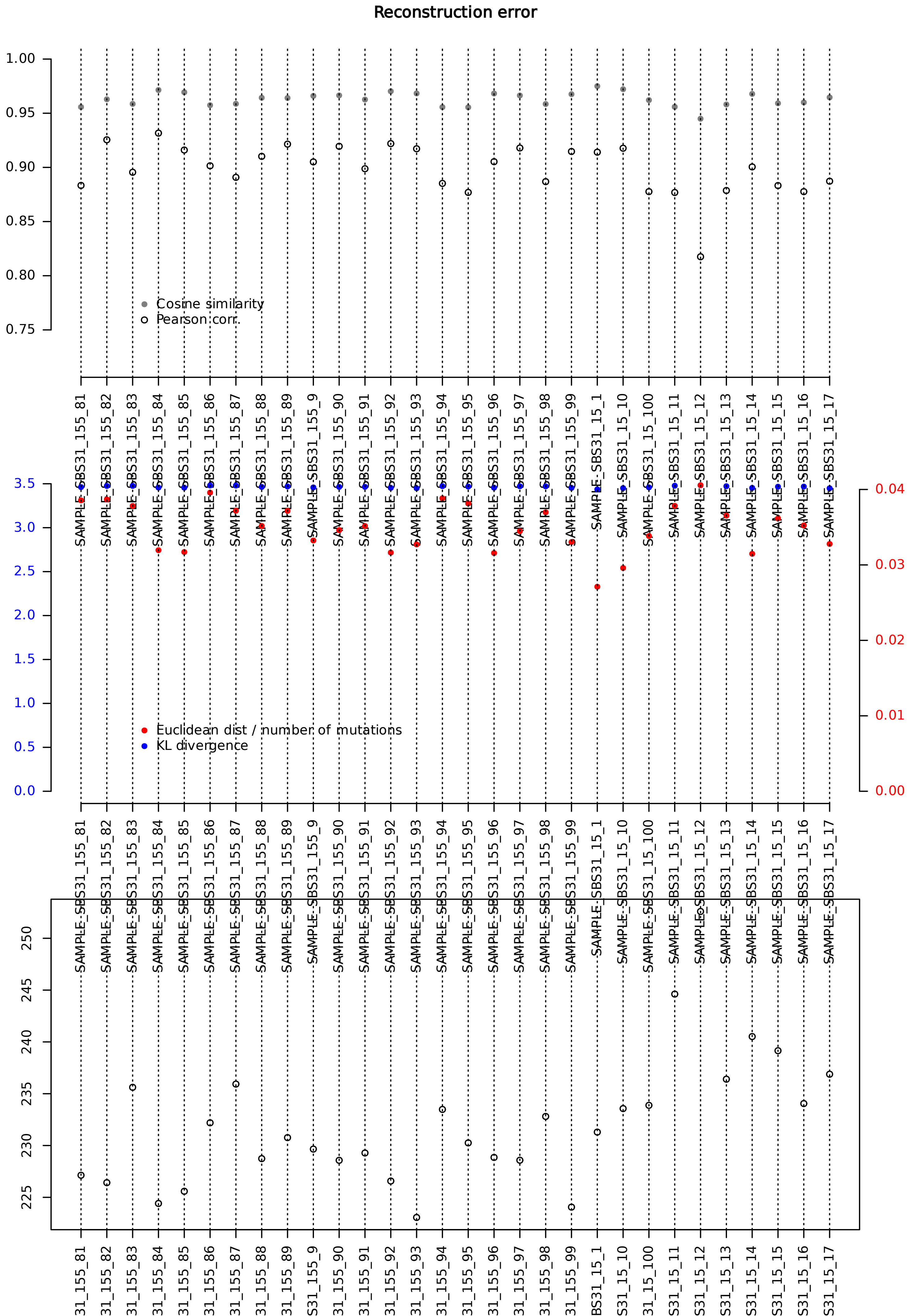
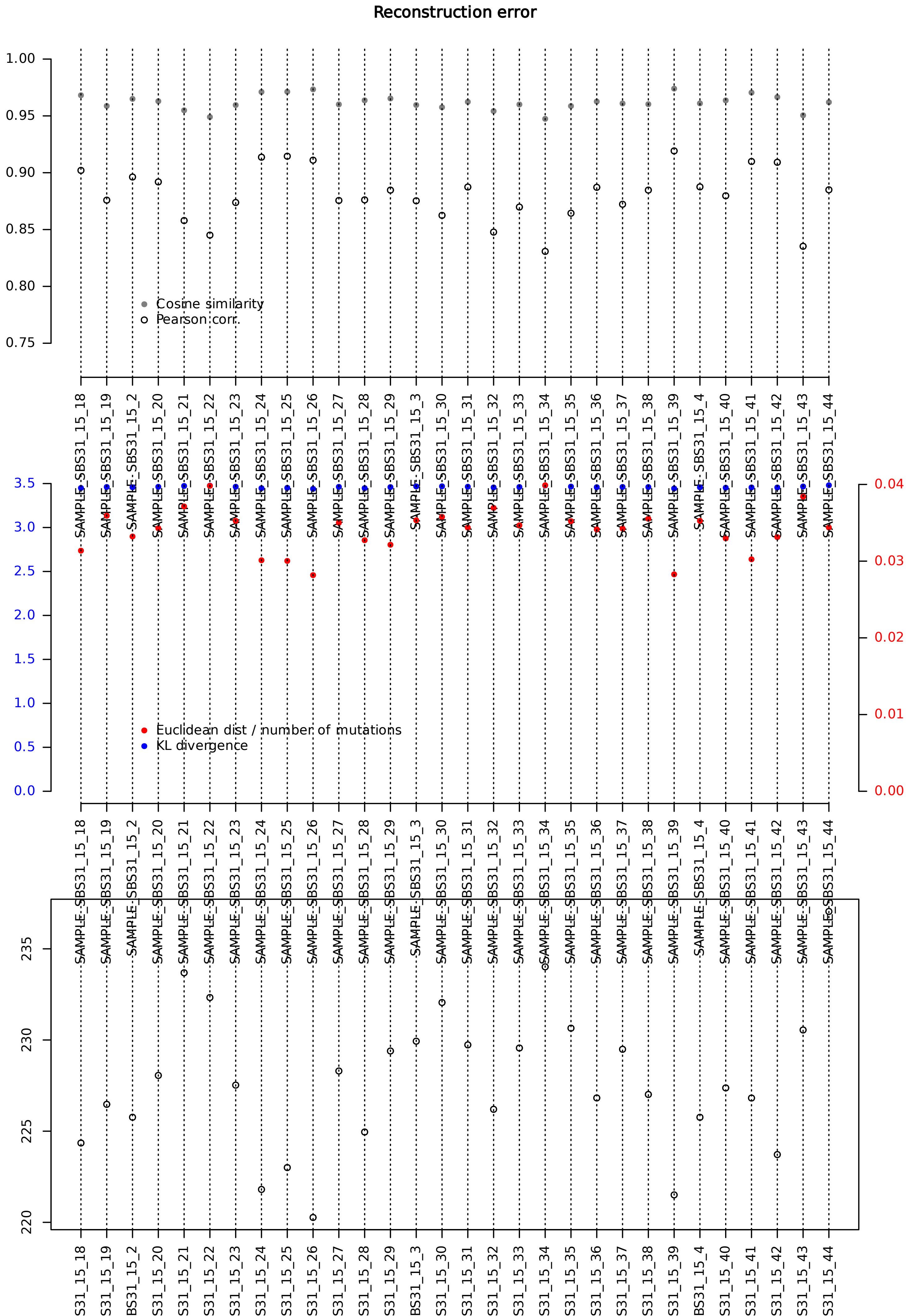
SAMPLE_SBS31_150_88
SAMPLE_SBS31_150_89
SAMPLE_SBS31_150_9


Reconstruction error
1.00
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
SAMPLE-SBS31_150_90
SAMPLE-SBS31_150_91
SAMPLE-SBS31_150_92
SAMPLE-SBS31_150_93
SAMPLE-SBS31_150_94
SAMPLE-SBS31_150_95
SAMPLE-SBS31_150_96
SAMPLE-SBS31_150_97
SAMPLE-SBS31_150_98
SAMPLE-SBS31_150_99
SAMPLE-SBS31_155_1
SAMPLE-SBS31_155_10
SAMPLE-SBS31_155_100
SAMPLE-SBS31_155_11
SAMPLE-SBS31_155_12
SAMPLE-SBS31_155_13
SAMPLE-SBS31_155_14
SAMPLE-SBS31_155_15
SAMPLE-SBS31_155_16
SAMPLE-SBS31_155_17
SAMPLE-SBS31_155_18
SAMPLE-SBS31_155_19
SAMPLE-SBS31_155_2
SAMPLE-SBS31_155_20
SAMPLE-SBS31_155_21
SAMPLE-SBS31_155_22
SAMPLE-SBS31_155_23
SAMPLE-SBS31_155_24
SAMPLE-SBS31_155_25
SAMPLE-SBS31_155_26
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
31_150_90
31_150_91
31_150_92
31_150_93
31_150_94
31_150_95
31_150_96
31_150_97
31_150_98
31_150_99
S31_155_1
31_155_10
1_155_100
31_155_11
31_155_12
31_155_13
31_155_14
31_155_15
31_155_16
31_155_17
31_155_18
31_155_19
S31_155_2
31_155_20
31_155_21
31_155_22
31_155_23
31_155_24
31_155_25
31_155_26

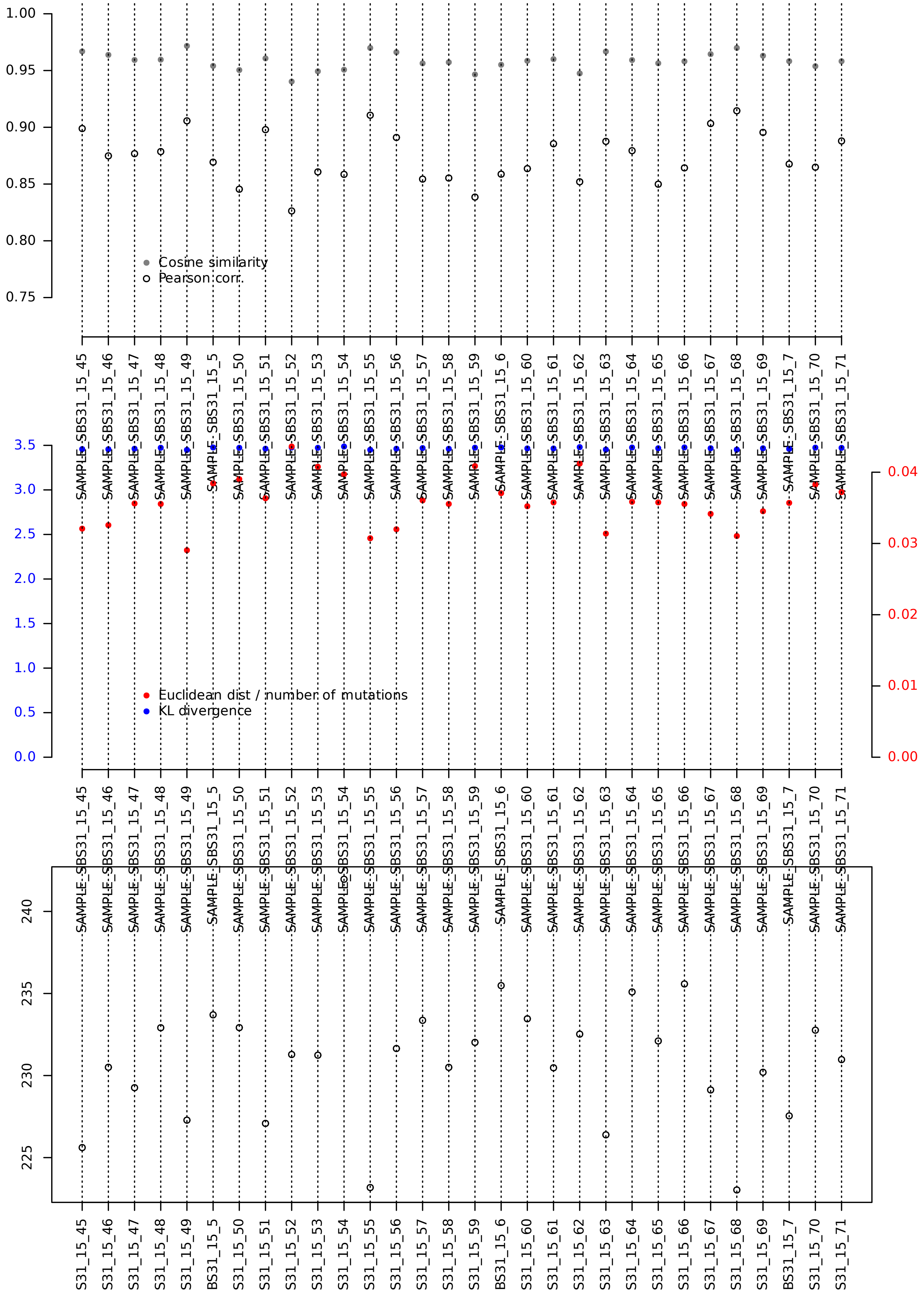

Reconstruction error
1.00
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
234
232
230
228
226
SAMPLE-SBS31_155_27
SAMPLE-SBS31_155_28
SAMPLE-SBS31_155_29
SAMPLE-SBS31_155_3
SAMPLE-SBS31_155_30
SAMPLE-SBS31_155_31
SAMPLE-SBS31_155_32
SAMPLE-SBS31_155_33
SAMPLE-SBS31_155_34
SAMPLE-SBS31_155_35
SAMPLE-SBS31_155_36
SAMPLE-SBS31_155_37
SAMPLE-SBS31_155_38
SAMPLE-SBS31_155_39
SAMPLE-SBS31_155_4
SAMPLE-SBS31_155_40
SAMPLE-SBS31_155_41
SAMPLE-SBS31_155_42
SAMPLE-SBS31_155_43
SAMPLE-SBS31_155_44
SAMPLE-SBS31_155_45
SAMPLE-SBS31_155_46
SAMPLE-SBS31_155_47
SAMPLE-SBS31_155_48
SAMPLE-SBS31_155_49
SAMPLE-SBS31_155_5
SAMPLE-SBS31_155_50
SAMPLE-SBS31_155_51
SAMPLE-SBS31_155_52
SAMPLE-SBS31_155_53

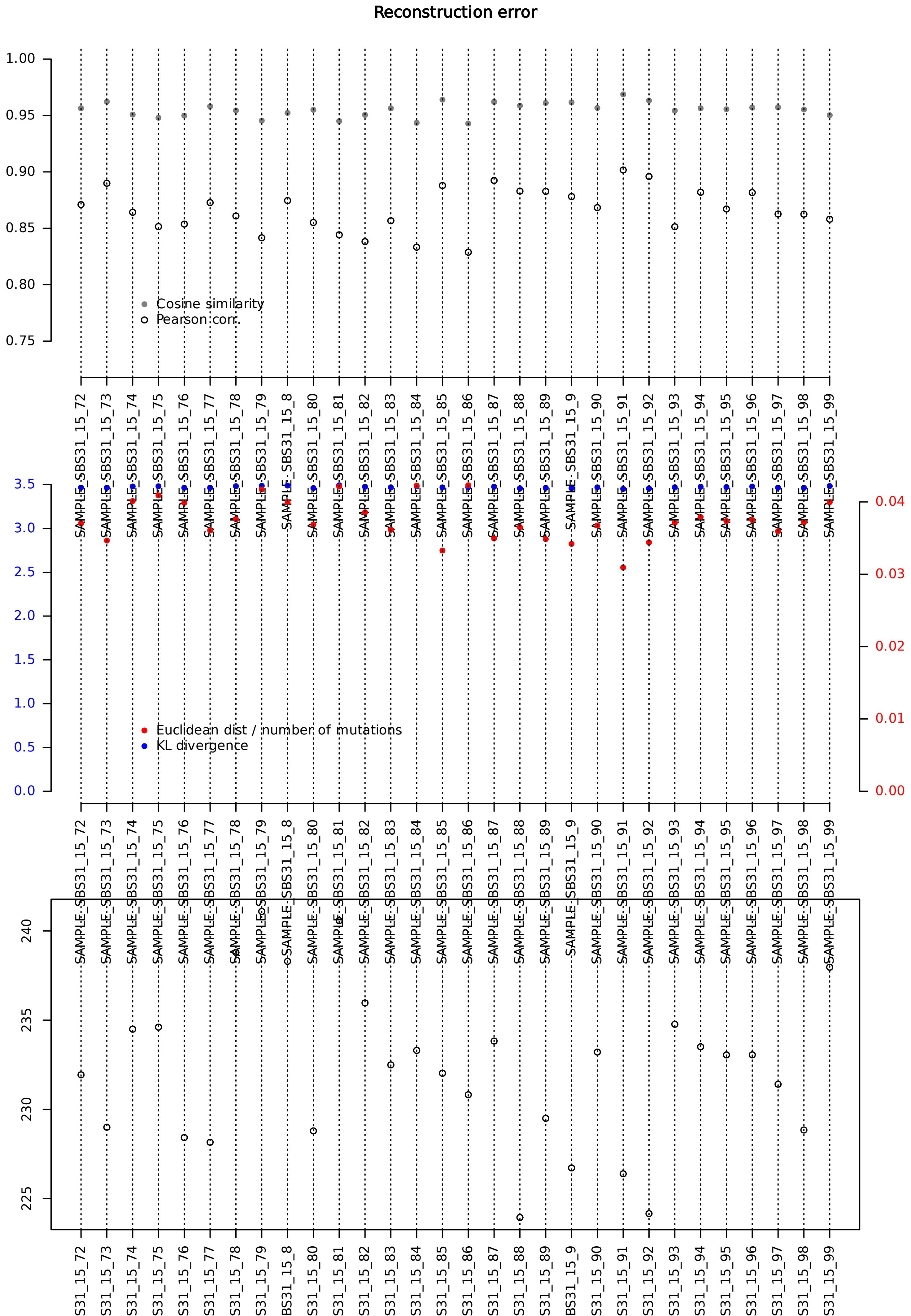

Reconstruction error
1.00
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
SAMPLE-SBS31_155_54
SAMPLE-SBS31_155_55
SAMPLE-SBS31_155_56
SAMPLE-SBS31_155_57
SAMPLE-SBS31_155_58
SAMPLE-SBS31_155_59
SAMPLE-SBS31_155_6
SAMPLE-SBS31_155_60
SAMPLE-SBS31_155_61
SAMPLE-SBS31_155_62
SAMPLE-SBS31_155_63
SAMPLE-SBS31_155_64
SAMPLE-SBS31_155_65
SAMPLE-SBS31_155_66
SAMPLE-SBS31_155_67
SAMPLE-SBS31_155_68
SAMPLE-SBS31_155_69
SAMPLE-SBS31_155_7
SAMPLE-SBS31_155_70
SAMPLE-SBS31_155_71
SAMPLE-SBS31_155_72
SAMPLE-SBS31_155_73
SAMPLE-SBS31_155_74
SAMPLE-SBS31_155_75
SAMPLE-SBS31_155_76
SAMPLE-SBS31_155_77
SAMPLE-SBS31_155_78
SAMPLE-SBS31_155_79
SAMPLE-SBS31_155_8
SAMPLE-SBS31_155_80
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
220

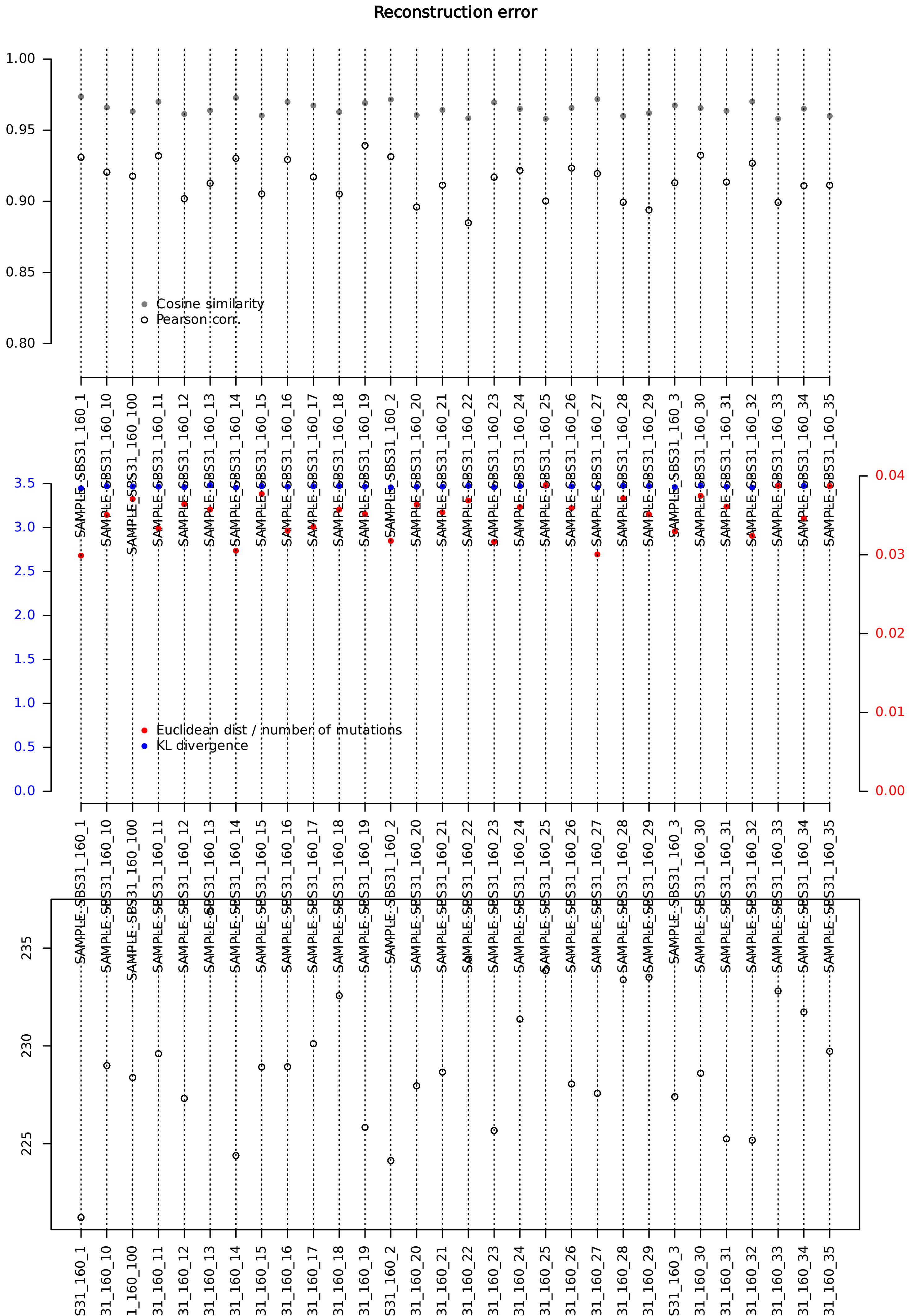

Reconstruction error
1.00
0.95
0.90
0.85
0.80
0.75
● Cosine similarity
○ Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
● Euclidean dist / number of mutations
● KL divergence
250
245
240
235
230
225
SAMPLE-SBS31_155_81
SAMPLE-SBS31_155_82
SAMPLE-SBS31_155_83
SAMPLE-SBS31_155_84
SAMPLE-SBS31_155_85
SAMPLE-SBS31_155_86
SAMPLE-SBS31_155_87
SAMPLE-SBS31_155_88
SAMPLE-SBS31_155_89
SAMPLE-SBS31_155_9
SAMPLE-SBS31_155_90
SAMPLE-SBS31_155_91
SAMPLE-SBS31_155_92
SAMPLE-SBS31_155_93
SAMPLE-SBS31_155_94
SAMPLE-SBS31_155_95
SAMPLE-SBS31_155_96
SAMPLE-SBS31_155_97
SAMPLE-SBS31_155_98
SAMPLE-SBS31_155_99
SAMPLE-SBS31_15_1
SAMPLE-SBS31_15_10
SAMPLE-SBS31_15_100
SAMPLE-SBS31_15_11
SAMPLE-SBS31_15_12
SAMPLE-SBS31_15_13
SAMPLE-SBS31_15_14
SAMPLE-SBS31_15_15
SAMPLE-SBS31_15_16
SAMPLE-SBS31_15_17

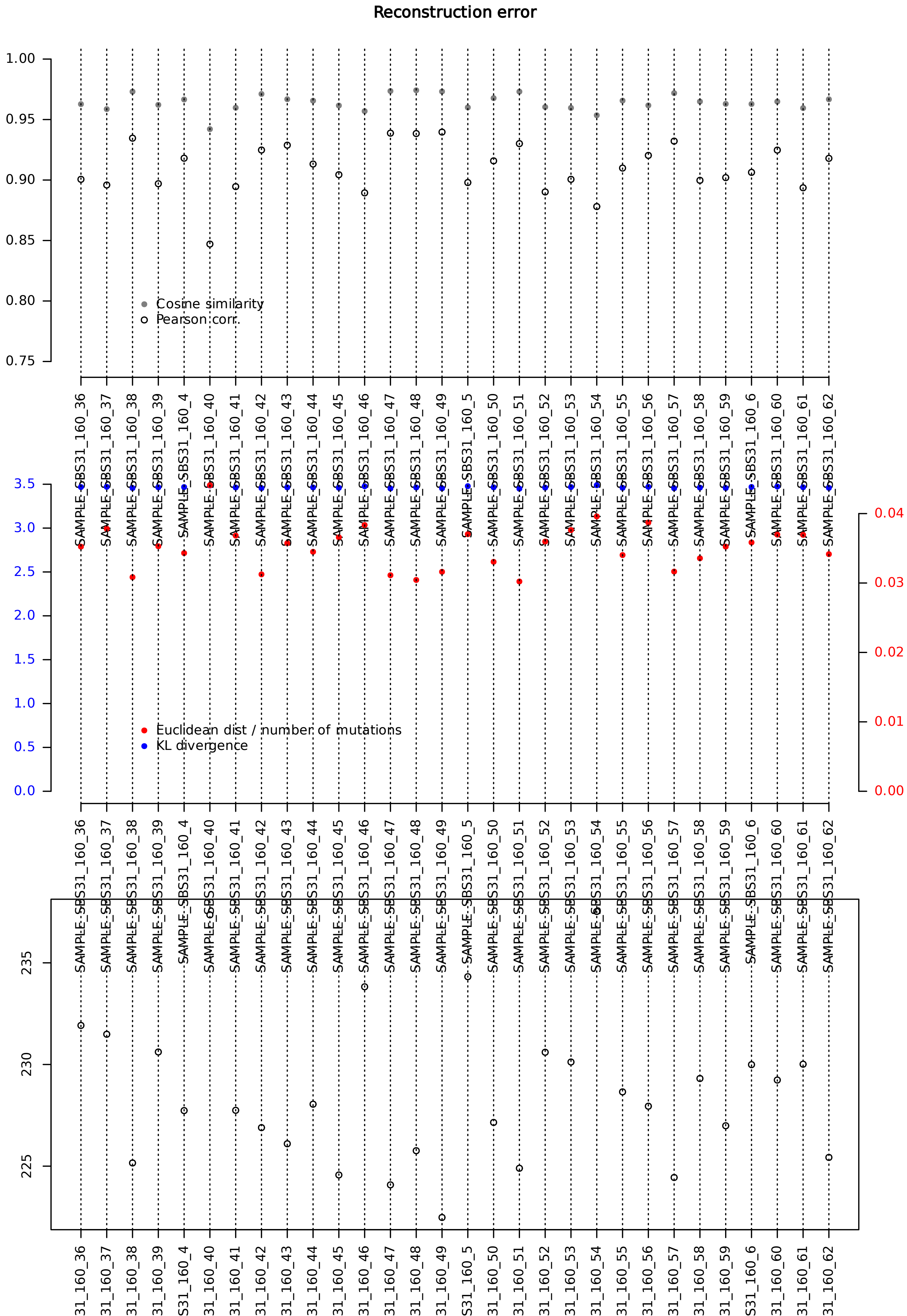

Reconstruction error

Reconstruction error




Reconstruction error
1.00
0.95
0.90
0.85
0.80
0.75
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
240
235
230
225
SAMPLE_SBS31_15_72
SAMPLE_SBS31_15_73
SAMPLE_SBS31_15_74
SAMPLE_SBS31_15_75
SAMPLE_SBS31_15_76
SAMPLE_SBS31_15_77
SAMPLE_SBS31_15_78
SAMPLE_SBS31_15_79
SAMPLE_SBS31_15_8
SAMPLE_SBS31_15_80
SAMPLE_SBS31_15_81
SAMPLE_SBS31_15_82
SAMPLE_SBS31_15_83
SAMPLE_SBS31_15_84
SAMPLE_SBS31_15_85
SAMPLE_SBS31_15_86
SAMPLE_SBS31_15_87
SAMPLE_SBS31_15_88
SAMPLE_SBS31_15_89
SAMPLE_SBS31_15_9
SAMPLE_SBS31_15_90
SAMPLE_SBS31_15_91
SAMPLE_SBS31_15_92
SAMPLE_SBS31_15_93
SAMPLE_SBS31_15_94
SAMPLE_SBS31_15_95
SAMPLE_SBS31_15_96
SAMPLE_SBS31_15_97
SAMPLE_SBS31_15_98
SAMPLE_SBS31_15_99


Reconstruction error
1.00
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
SAMPLE-SBS31_160_1
SAMPLE-SBS31_160_10
SAMPLE-SBS31_160_100
SAMPLE-SBS31_160_11
SAMPLE-SBS31_160_12
SAMPLE-SBS31_160_13
SAMPLE-SBS31_160_14
SAMPLE-SBS31_160_15
SAMPLE-SBS31_160_16
SAMPLE-SBS31_160_17
SAMPLE-SBS31_160_18
SAMPLE-SBS31_160_19
SAMPLE-SBS31_160_2
SAMPLE-SBS31_160_20
SAMPLE-SBS31_160_21
SAMPLE-SBS31_160_22
SAMPLE-SBS31_160_23
SAMPLE-SBS31_160_24
SAMPLE-SBS31_160_25
SAMPLE-SBS31_160_26
SAMPLE-SBS31_160_27
SAMPLE-SBS31_160_28
SAMPLE-SBS31_160_29
SAMPLE-SBS31_160_3
SAMPLE-SBS31_160_30
SAMPLE-SBS31_160_31
SAMPLE-SBS31_160_32
SAMPLE-SBS31_160_33
SAMPLE-SBS31_160_34
SAMPLE-SBS31_160_35
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225


Reconstruction error
1.00
0.95
0.90
0.85
0.80
0.75
Cosine similarity
Pearson corr.
SAMPLE-SBS31_160_36
SAMPLE-SBS31_160_37
SAMPLE-SBS31_160_38
SAMPLE-SBS31_160_39
SAMPLE-SBS31_160_4
SAMPLE-SBS31_160_40
SAMPLE-SBS31_160_41
SAMPLE-SBS31_160_42
SAMPLE-SBS31_160_43
SAMPLE-SBS31_160_44
SAMPLE-SBS31_160_45
SAMPLE-SBS31_160_46
SAMPLE-SBS31_160_47
SAMPLE-SBS31_160_48
SAMPLE-SBS31_160_49
SAMPLE-SBS31_160_5
SAMPLE-SBS31_160_50
SAMPLE-SBS31_160_51
SAMPLE-SBS31_160_52
SAMPLE-SBS31_160_53
SAMPLE-SBS31_160_54
SAMPLE-SBS31_160_55
SAMPLE-SBS31_160_56
SAMPLE-SBS31_160_57
SAMPLE-SBS31_160_58
SAMPLE-SBS31_160_59
SAMPLE-SBS31_160_6
SAMPLE-SBS31_160_60
SAMPLE-SBS31_160_61
SAMPLE-SBS31_160_62
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
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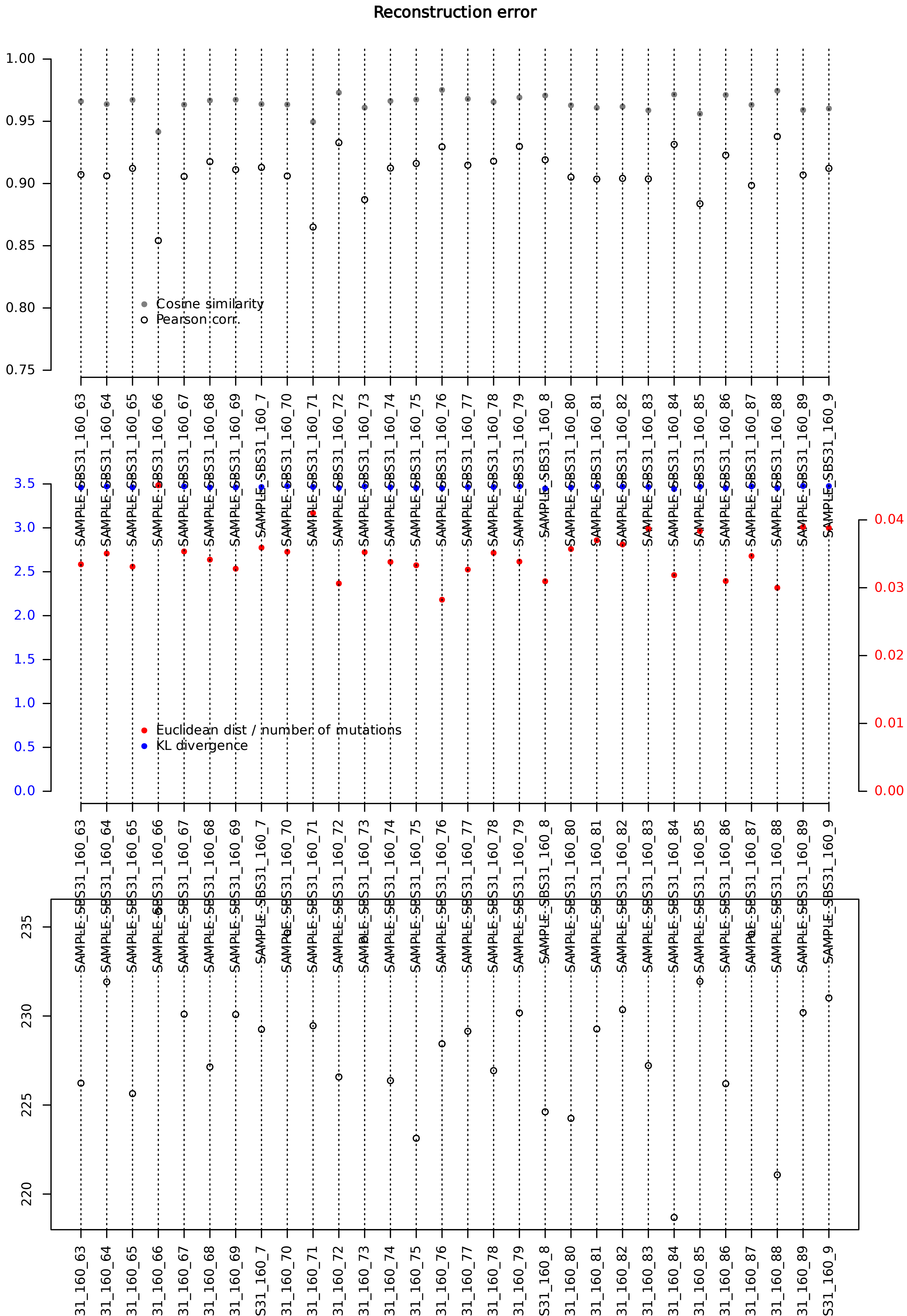
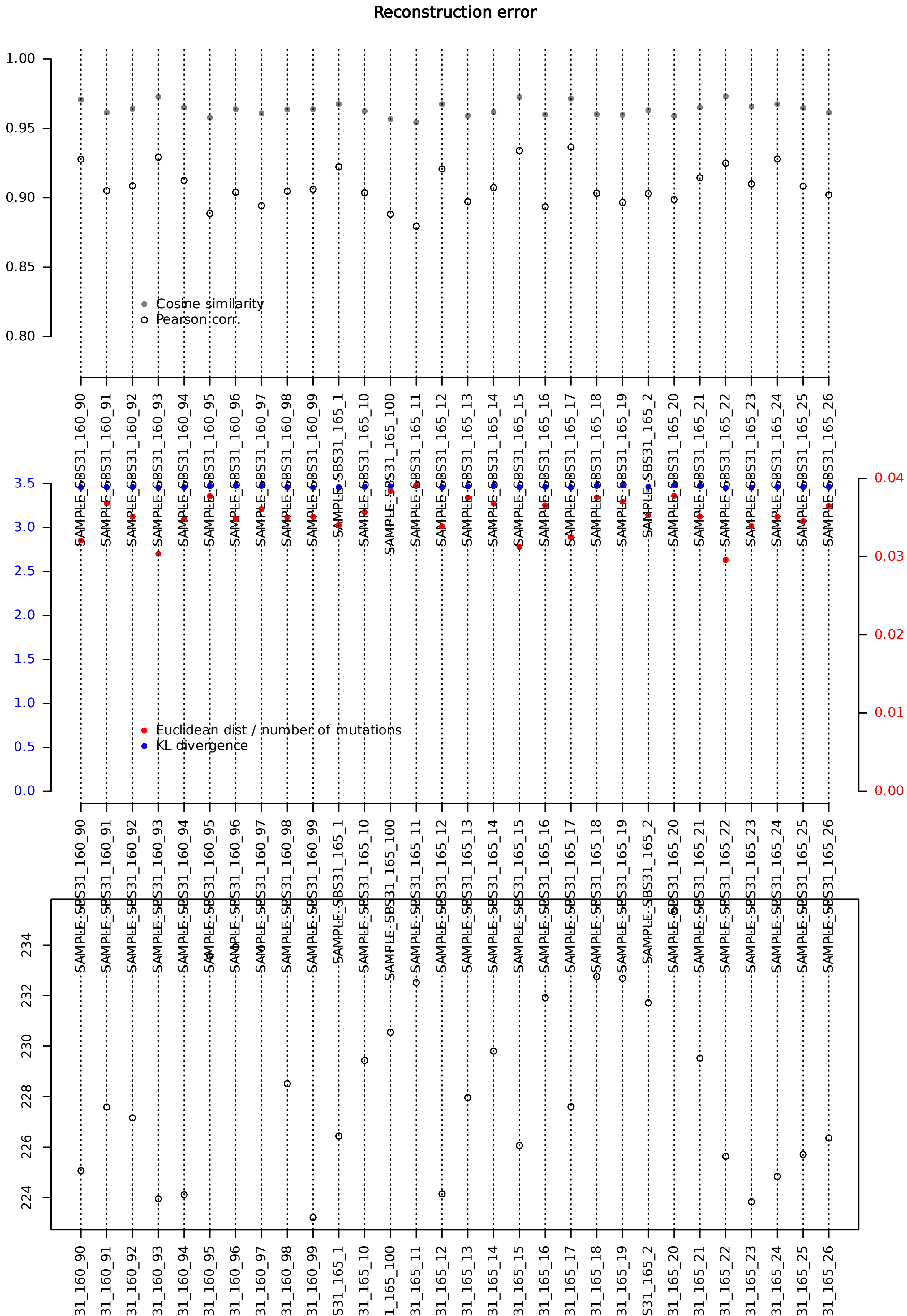
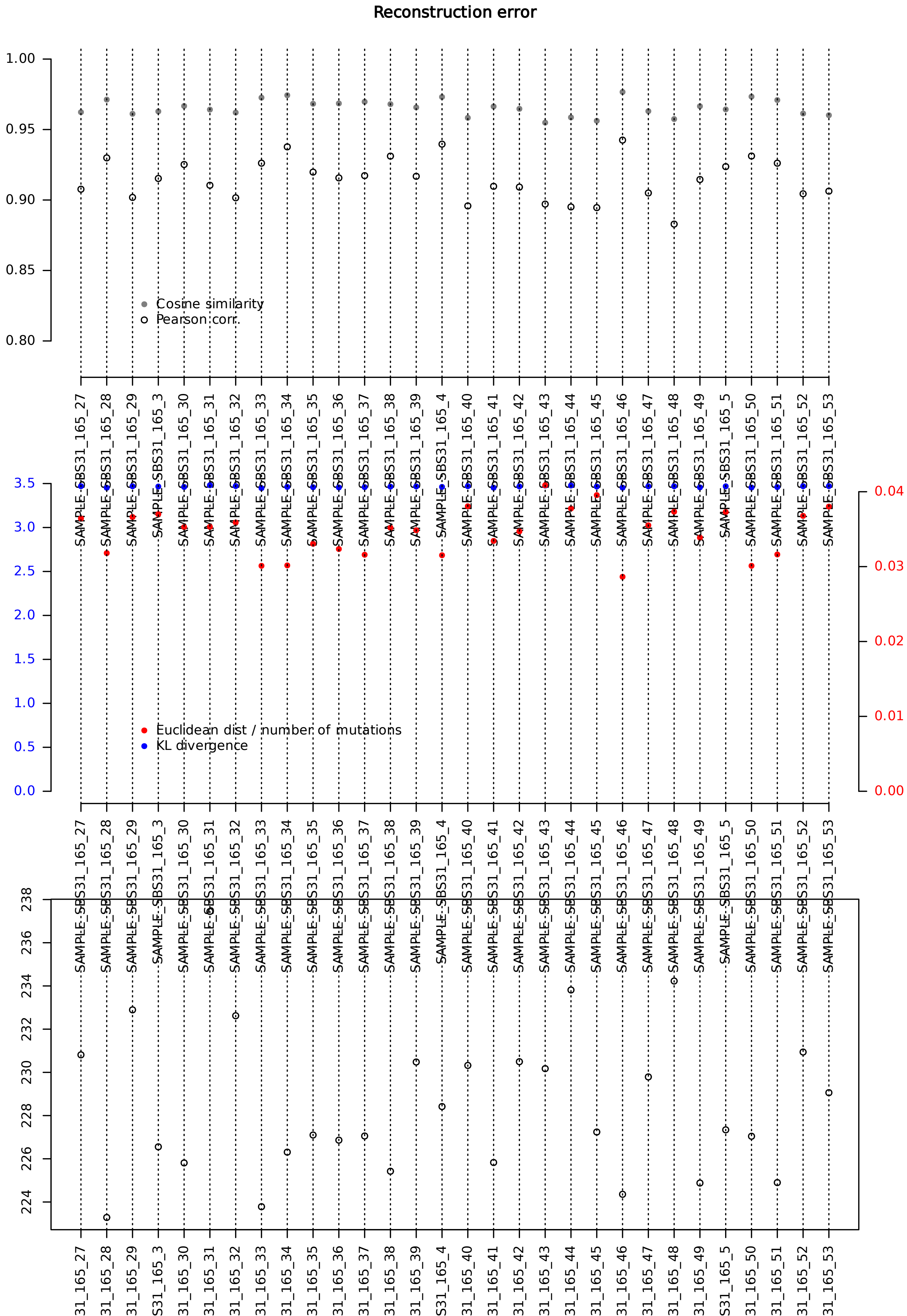
Euclidean dist / number of mutations
KL divergence
235
230
225


Reconstruction error
1.00
0.95
0.90
0.85
0.80
0.75
Cosine similarity
Pearson corr.
SAMPLE_SBS31_160_63
SAMPLE_SBS31_160_64
SAMPLE_SBS31_160_65
SAMPLE_SBS31_160_66
SAMPLE_SBS31_160_67
SAMPLE_SBS31_160_68
SAMPLE_SBS31_160_69
SAMPLE_SBS31_160_7
SAMPLE_SBS31_160_70
SAMPLE_SBS31_160_71
SAMPLE_SBS31_160_72
SAMPLE_SBS31_160_73
SAMPLE_SBS31_160_74
SAMPLE_SBS31_160_75
SAMPLE_SBS31_160_76
SAMPLE_SBS31_160_77
SAMPLE_SBS31_160_78
SAMPLE_SBS31_160_79
SAMPLE_SBS31_160_8
SAMPLE_SBS31_160_80
SAMPLE_SBS31_160_81
SAMPLE_SBS31_160_82
SAMPLE_SBS31_160_83
SAMPLE_SBS31_160_84
SAMPLE_SBS31_160_85
SAMPLE_SBS31_160_86
SAMPLE_SBS31_160_87
SAMPLE_SBS31_160_88
SAMPLE_SBS31_160_89
SAMPLE_SBS31_160_9
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
220


Reconstruction error
1.00
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
234
232
230
228
226
224
SAMPLE-SBS31_160_90
SAMPLE-SBS31_160_91
SAMPLE-SBS31_160_92
SAMPLE-SBS31_160_93
SAMPLE-SBS31_160_94
SAMPLE-SBS31_160_95
SAMPLE-SBS31_160_96
SAMPLE-SBS31_160_97
SAMPLE-SBS31_160_98
SAMPLE-SBS31_160_99
SAMPLE-SBS31_165_1
SAMPLE-SBS31_165_10
SAMPLE-SBS31_165_100
SAMPLE-SBS31_165_11
SAMPLE-SBS31_165_12
SAMPLE-SBS31_165_13
SAMPLE-SBS31_165_14
SAMPLE-SBS31_165_15
SAMPLE-SBS31_165_16
SAMPLE-SBS31_165_17
SAMPLE-SBS31_165_18
SAMPLE-SBS31_165_19
SAMPLE-SBS31_165_2
SAMPLE-SBS31_165_20
SAMPLE-SBS31_165_21
SAMPLE-SBS31_165_22
SAMPLE-SBS31_165_23
SAMPLE-SBS31_165_24
SAMPLE-SBS31_165_25
SAMPLE-SBS31_165_26

Reconstruction error
1.00
0.95
0.90
0.85
0.80
● Cosine similarity
○ Pearson corr.
SAMPLE-SBS31_165_27
SAMPLE-SBS31_165_28
SAMPLE-SBS31_165_29
SAMPLE-SBS31_165_3
SAMPLE-SBS31_165_30
SAMPLE-SBS31_165_31
SAMPLE-SBS31_165_32
SAMPLE-SBS31_165_33
SAMPLE-SBS31_165_34
SAMPLE-SBS31_165_35
SAMPLE-SBS31_165_36
SAMPLE-SBS31_165_37
SAMPLE-SBS31_165_38
SAMPLE-SBS31_165_39
SAMPLE-SBS31_165_4
SAMPLE-SBS31_165_40
SAMPLE-SBS31_165_41
SAMPLE-SBS31_165_42
SAMPLE-SBS31_165_43
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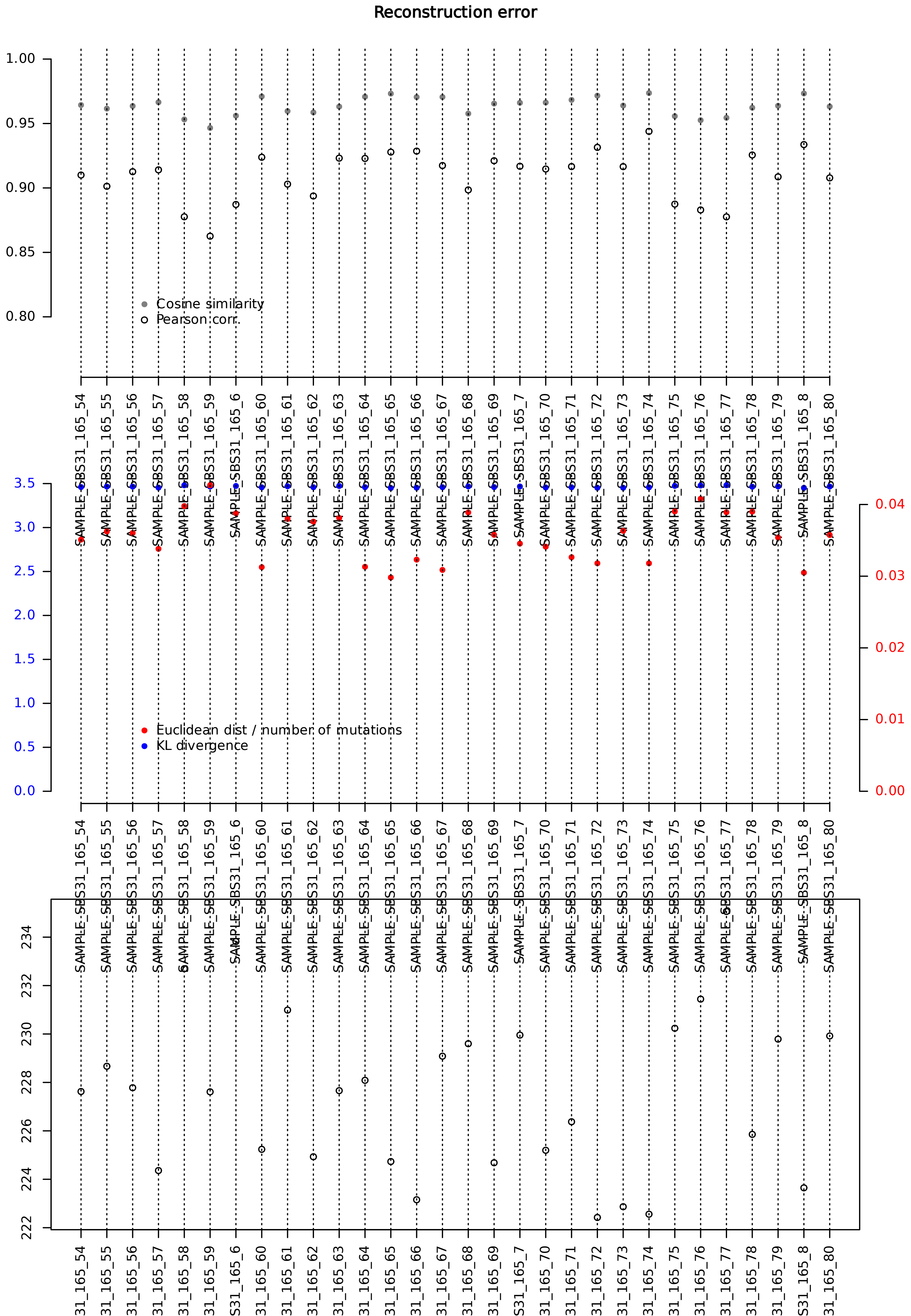
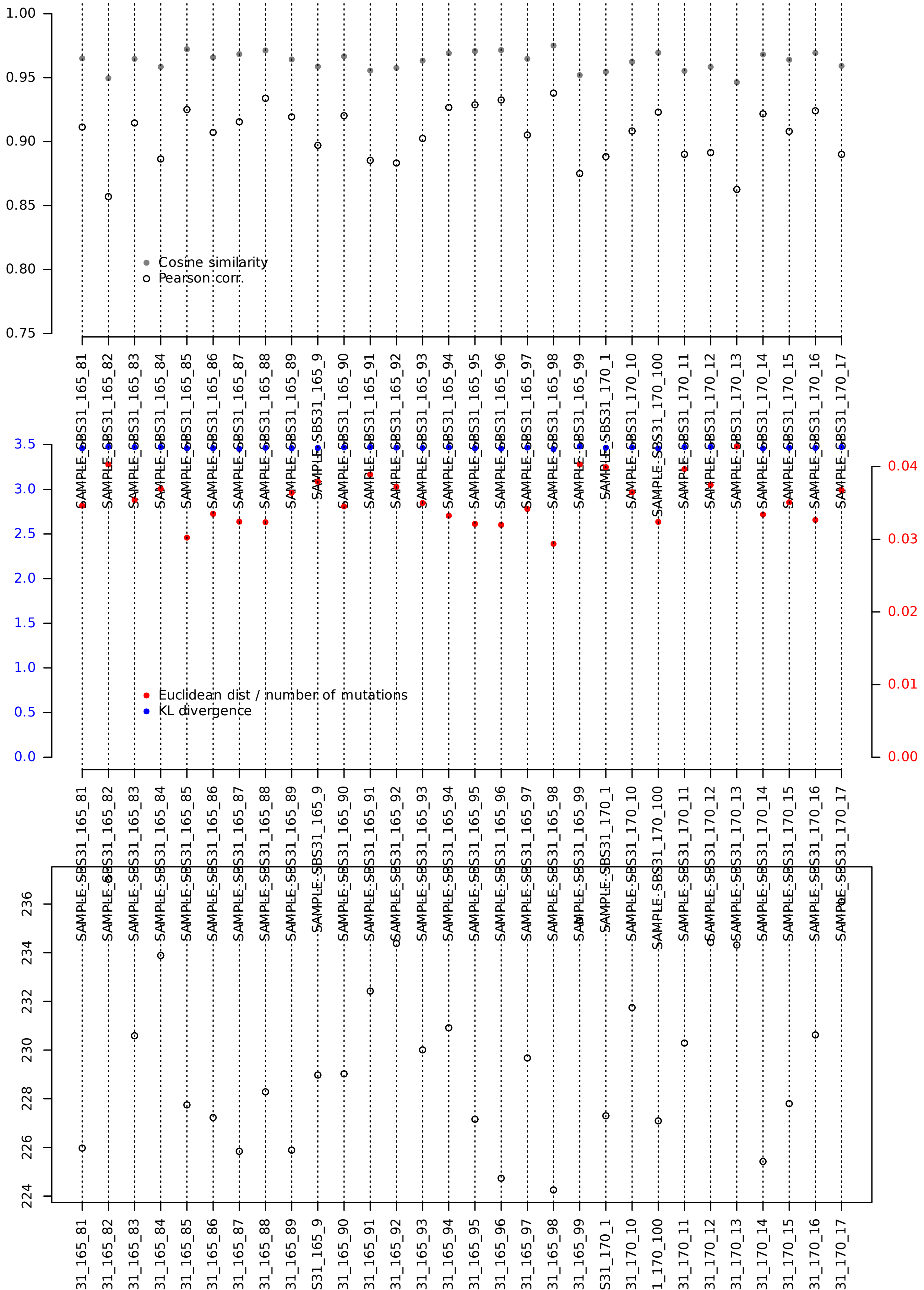
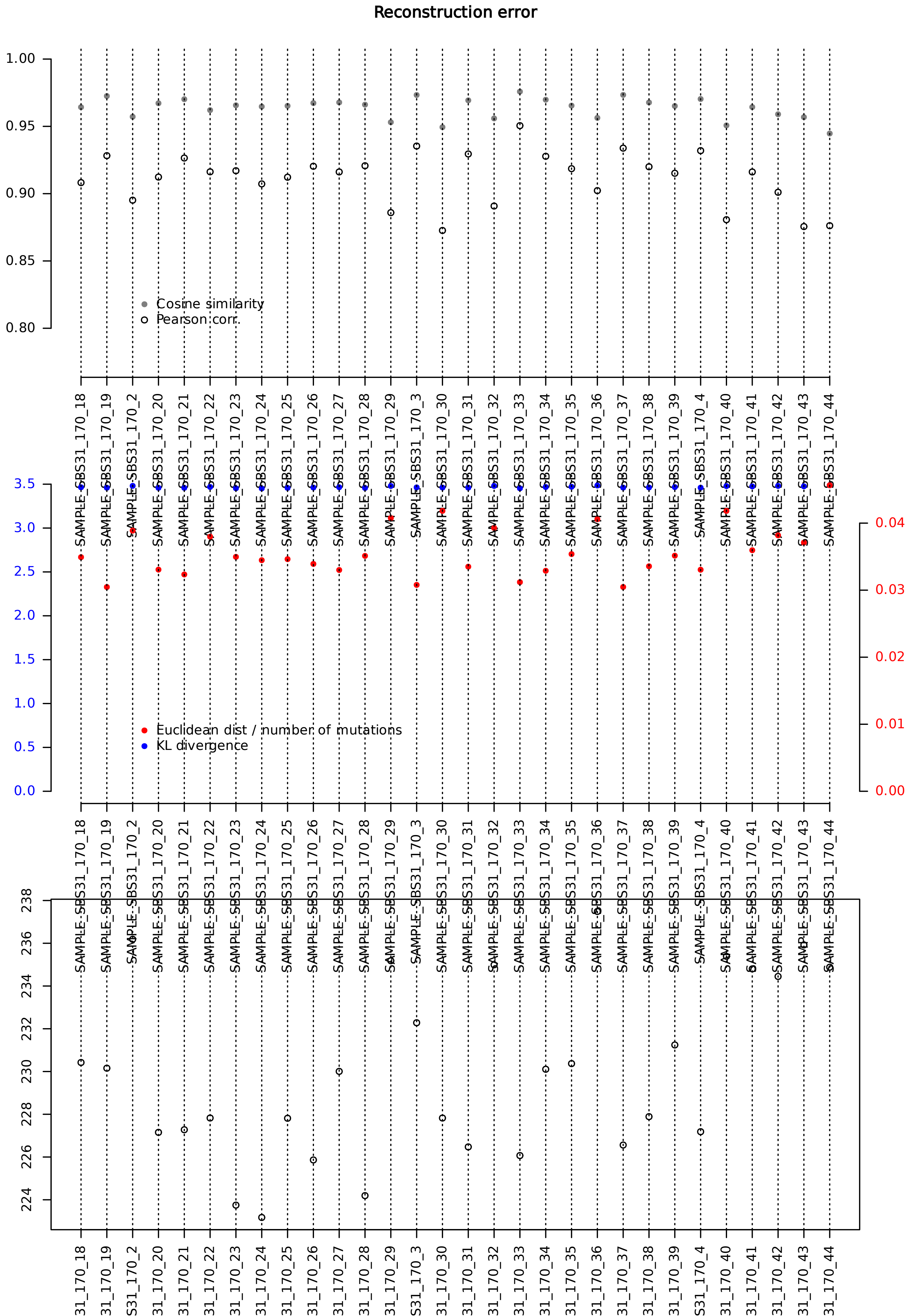
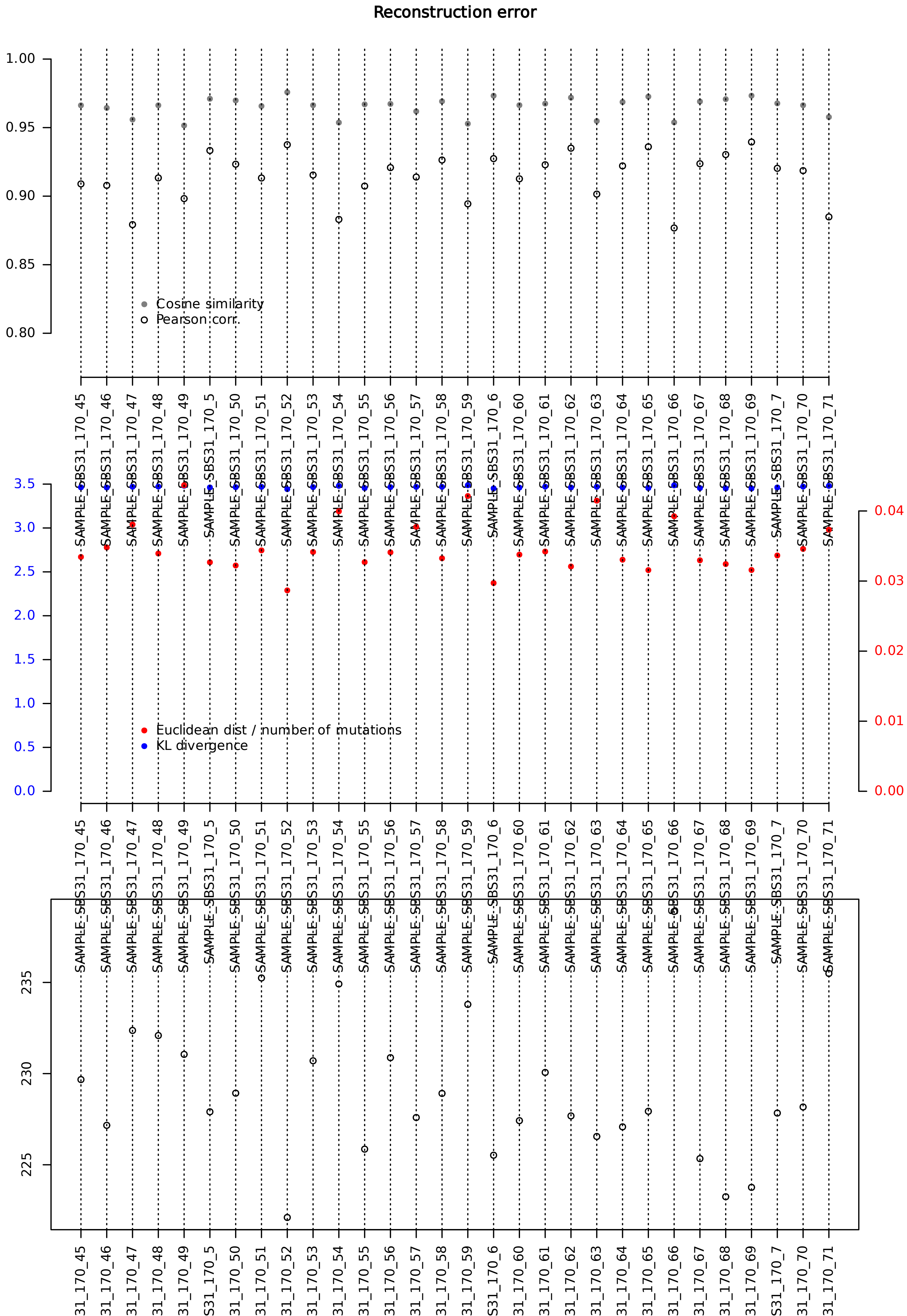
SAMPLE-SBS31_165_45
SAMPLE-SBS31_165_46
SAMPLE-SBS31_165_47
SAMPLE-SBS31_165_48
SAMPLE-SBS31_165_49
SAMPLE-SBS31_165_5
SAMPLE-SBS31_165_50
SAMPLE-SBS31_165_51
SAMPLE-SBS31_165_52
SAMPLE-SBS31_165_53
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
● Euclidean dist / number of mutations
● KL divergence
238
236
234
232
230
228
226
224
31_165_27
31_165_28
31_165_29
S31_165_3
31_165_30
31_165_31
31_165_32
31_165_33
31_165_34
31_165_35
31_165_36
31_165_37
31_165_38
31_165_39
S31_165_4
31_165_40
31_165_41
31_165_42
31_165_43
31_165_44
31_165_45
31_165_46
31_165_47
31_165_48
31_165_49
S31_165_5
31_165_50
31_165_51
31_165_52
31_165_53


Reconstruction error
1.00
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
SAMPLE-SBS31_165_54
SAMPLE-SBS31_165_55
SAMPLE-SBS31_165_56
SAMPLE-SBS31_165_57
SAMPLE-SBS31_165_58
SAMPLE-SBS31_165_59
SAMPLE-SBS31_165_6
SAMPLE-SBS31_165_60
SAMPLE-SBS31_165_61
SAMPLE-SBS31_165_62
SAMPLE-SBS31_165_63
SAMPLE-SBS31_165_64
SAMPLE-SBS31_165_65
SAMPLE-SBS31_165_66
SAMPLE-SBS31_165_67
SAMPLE-SBS31_165_68
SAMPLE-SBS31_165_69
SAMPLE-SBS31_165_7
SAMPLE-SBS31_165_70
SAMPLE-SBS31_165_71
SAMPLE-SBS31_165_72
SAMPLE-SBS31_165_73
SAMPLE-SBS31_165_74
SAMPLE-SBS31_165_75
SAMPLE-SBS31_165_76
SAMPLE-SBS31_165_77
SAMPLE-SBS31_165_78
SAMPLE-SBS31_165_79
SAMPLE-SBS31_165_8
SAMPLE-SBS31_165_80
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
234
232
230
228
226
224
222

Reconstruction error




Reconstruction error
1.00
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
238
236
234
232
230
228
226
224
SAMPLE-SBS31_170_18
SAMPLE-SBS31_170_19
SAMPLE-SBS31_170_2
SAMPLE-SBS31_170_20
SAMPLE-SBS31_170_21
SAMPLE-SBS31_170_22
SAMPLE-SBS31_170_23
SAMPLE-SBS31_170_24
SAMPLE-SBS31_170_25
SAMPLE-SBS31_170_26
SAMPLE-SBS31_170_27
SAMPLE-SBS31_170_28
SAMPLE-SBS31_170_29
SAMPLE-SBS31_170_3
SAMPLE-SBS31_170_30
SAMPLE-SBS31_170_31
SAMPLE-SBS31_170_32
SAMPLE-SBS31_170_33
SAMPLE-SBS31_170_34
SAMPLE-SBS31_170_35
SAMPLE-SBS31_170_36
SAMPLE-SBS31_170_37
SAMPLE-SBS31_170_38
SAMPLE-SBS31_170_39
SAMPLE-SBS31_170_4
SAMPLE-SBS31_170_40
SAMPLE-SBS31_170_41
SAMPLE-SBS31_170_42
SAMPLE-SBS31_170_43
SAMPLE-SBS31_170_44


Reconstruction error
1.00
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
SAMPLE-SBS31_170_45
SAMPLE-SBS31_170_46
SAMPLE-SBS31_170_47
SAMPLE-SBS31_170_48
SAMPLE-SBS31_170_49
SAMPLE-SBS31_170_5
SAMPLE-SBS31_170_50
SAMPLE-SBS31_170_51
SAMPLE-SBS31_170_52
SAMPLE-SBS31_170_53
SAMPLE-SBS31_170_54
SAMPLE-SBS31_170_55
SAMPLE-SBS31_170_56
SAMPLE-SBS31_170_57
SAMPLE-SBS31_170_58
SAMPLE-SBS31_170_59
SAMPLE-SBS31_170_6
SAMPLE-SBS31_170_60
SAMPLE-SBS31_170_61
SAMPLE-SBS31_170_62
SAMPLE-SBS31_170_63
SAMPLE-SBS31_170_64
SAMPLE-SBS31_170_65
SAMPLE-SBS31_170_66
SAMPLE-SBS31_170_67
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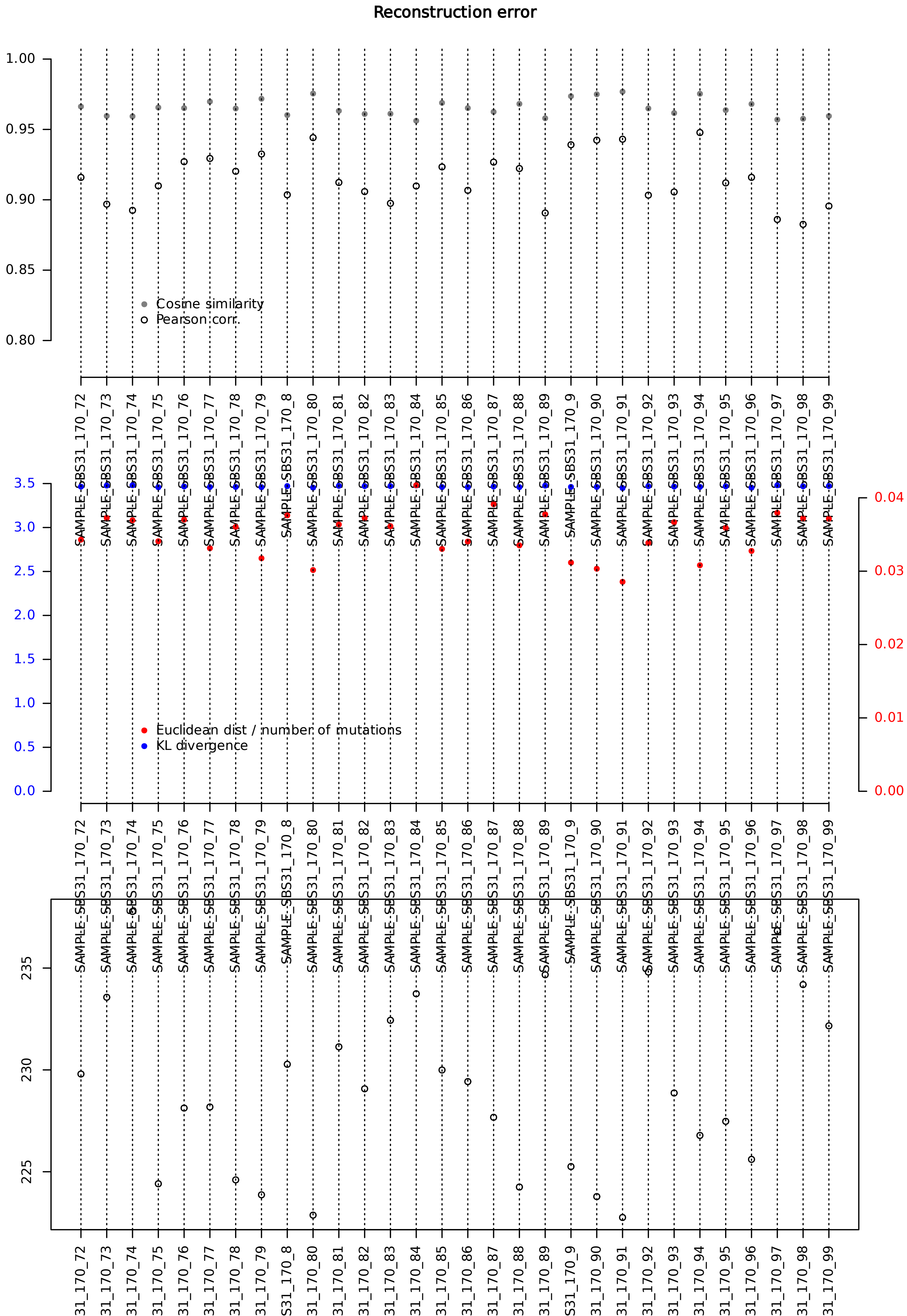
Reconstruction error
1.00
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
SAMPLE-SBS31_170_72
SAMPLE-SBS31_170_73
SAMPLE-SBS31_170_74
SAMPLE-SBS31_170_75
SAMPLE-SBS31_170_76
SAMPLE-SBS31_170_77
SAMPLE-SBS31_170_78
SAMPLE-SBS31_170_79
SAMPLE-SBS31_170_8
SAMPLE-SBS31_170_80
SAMPLE-SBS31_170_81
SAMPLE-SBS31_170_82
SAMPLE-SBS31_170_83
SAMPLE-SBS31_170_84
SAMPLE-SBS31_170_85
SAMPLE-SBS31_170_86
SAMPLE-SBS31_170_87
SAMPLE-SBS31_170_88
SAMPLE-SBS31_170_89
SAMPLE-SBS31_170_9
SAMPLE-SBS31_170_90
SAMPLE-SBS31_170_91
SAMPLE-SBS31_170_92
SAMPLE-SBS31_170_93
SAMPLE-SBS31_170_94
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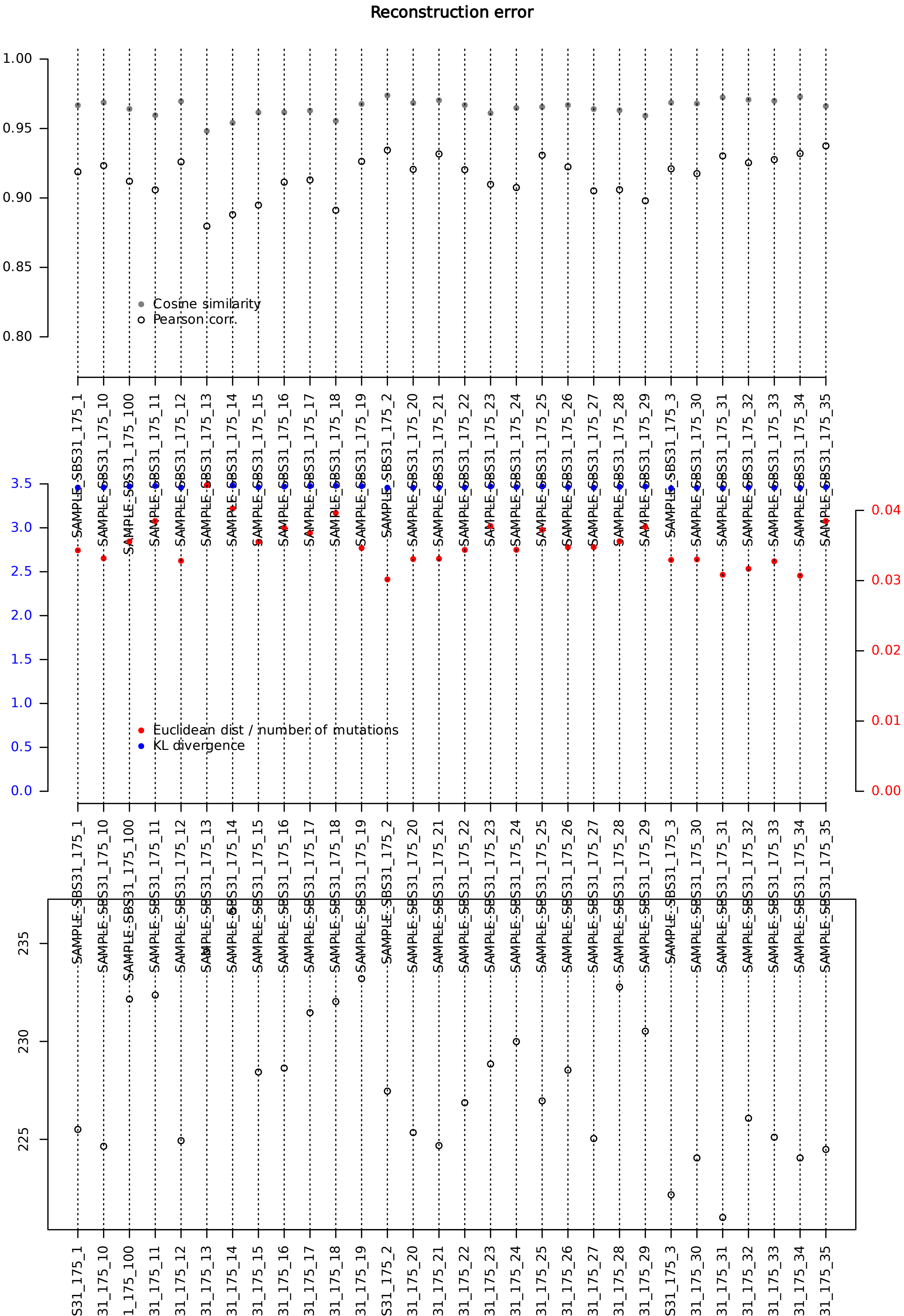
SAMPLE-SBS31_170_97
SAMPLE-SBS31_170_98
SAMPLE-SBS31_170_99


Reconstruction error
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0.85
0.80
Cosine similarity
Pearson corr.
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SAMPLE-SBS31_175_10
SAMPLE-SBS31_175_100
SAMPLE-SBS31_175_11
SAMPLE-SBS31_175_12
SAMPLE-SBS31_175_13
SAMPLE-SBS31_175_14
SAMPLE-SBS31_175_15
SAMPLE-SBS31_175_16
SAMPLE-SBS31_175_17
SAMPLE-SBS31_175_18
SAMPLE-SBS31_175_19
SAMPLE-SBS31_175_2
SAMPLE-SBS31_175_20
SAMPLE-SBS31_175_21
SAMPLE-SBS31_175_22
SAMPLE-SBS31_175_23
SAMPLE-SBS31_175_24
SAMPLE-SBS31_175_25
SAMPLE-SBS31_175_26
SAMPLE-SBS31_175_27
SAMPLE-SBS31_175_28
SAMPLE-SBS31_175_29
SAMPLE-SBS31_175_3
SAMPLE-SBS31_175_30
SAMPLE-SBS31_175_31
SAMPLE-SBS31_175_32
SAMPLE-SBS31_175_33
SAMPLE-SBS31_175_34
SAMPLE-SBS31_175_35
3.5
3.0
2.5
2.0
1.5
1.0
0.5
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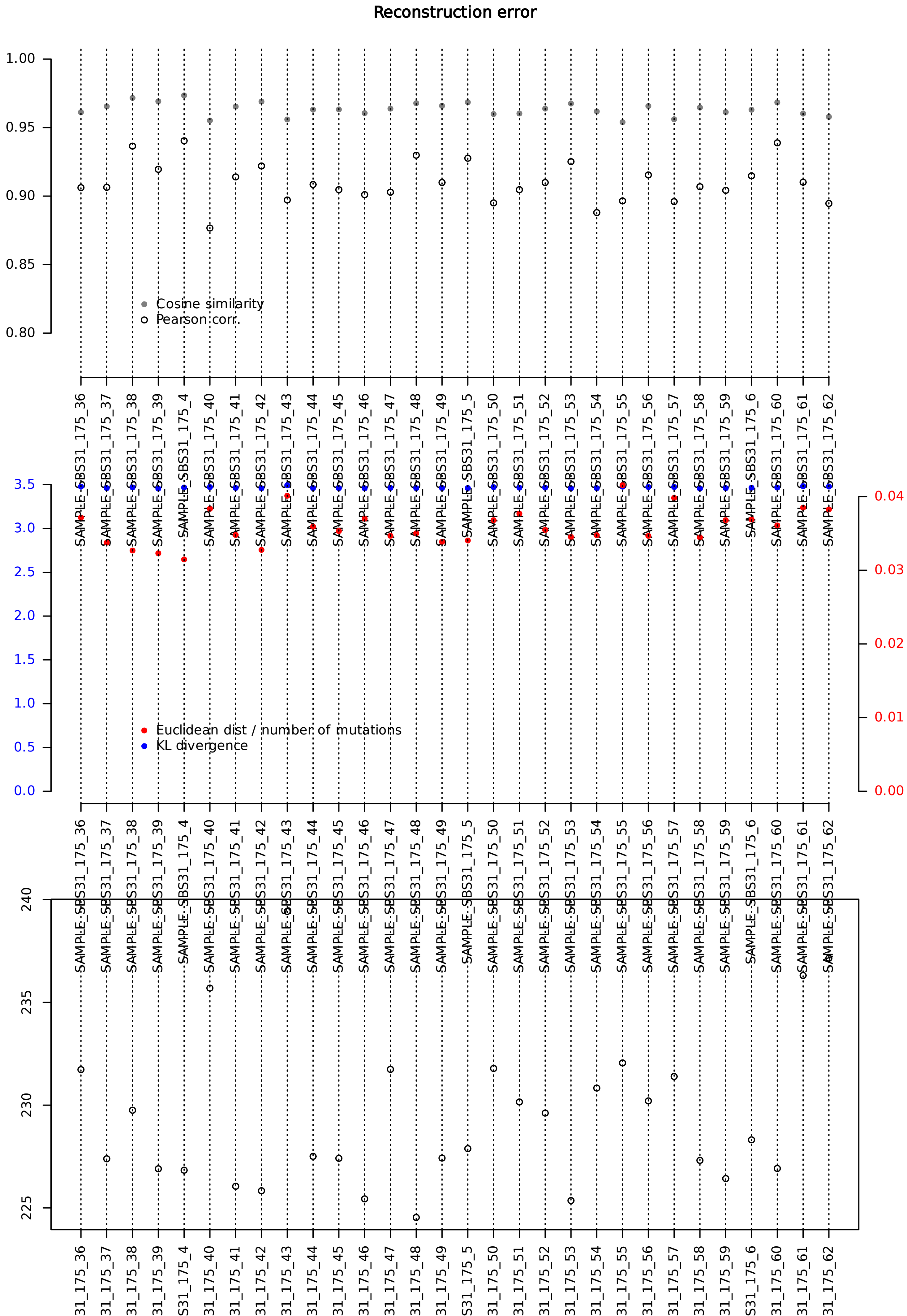
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225


Reconstruction error
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0.90
0.85
0.80
● Cosine similarity
○ Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
● Euclidean dist / number of mutations
● KL divergence
240
235
230
225
SAMPLE-SBS31_175_36
SAMPLE-SBS31_175_37
SAMPLE-SBS31_175_38
SAMPLE-SBS31_175_39
SAMPLE-SBS31_175_4
SAMPLE-SBS31_175_40
SAMPLE-SBS31_175_41
SAMPLE-SBS31_175_42
SAMPLE-SBS31_175_43
SAMPLE-SBS31_175_44
SAMPLE-SBS31_175_45
SAMPLE-SBS31_175_46
SAMPLE-SBS31_175_47
SAMPLE-SBS31_175_48
SAMPLE-SBS31_175_49
SAMPLE-SBS31_175_5
SAMPLE-SBS31_175_50
SAMPLE-SBS31_175_51
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SAMPLE-SBS31_175_53
SAMPLE-SBS31_175_54
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SAMPLE-SBS31_175_56
SAMPLE-SBS31_175_57
SAMPLE-SBS31_175_58
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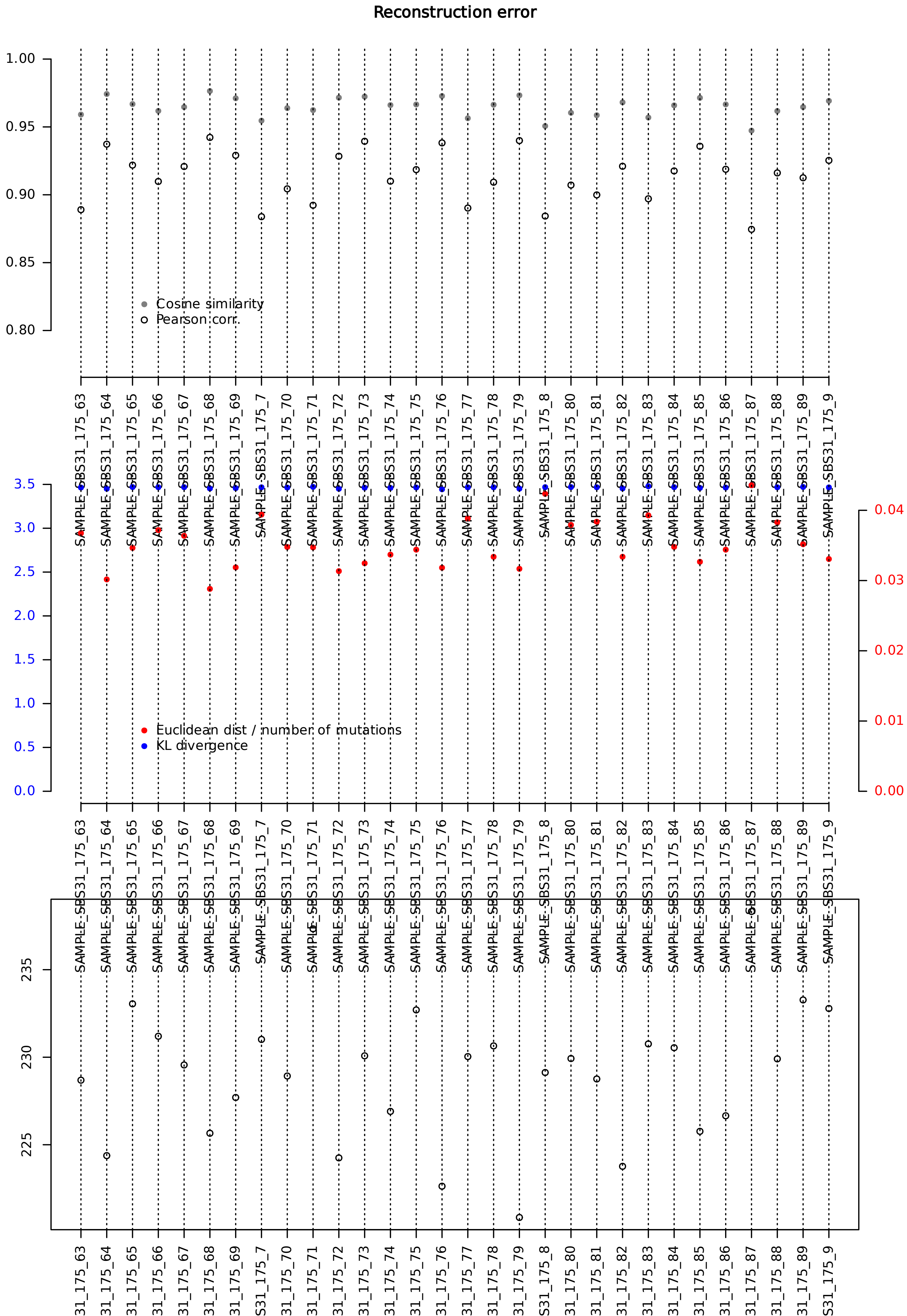
SAMPLE-SBS31_175_61
SAMPLE-SBS31_175_62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0.90
0.85
0.80
Cosine similarity
Pearson corr.
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3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
SAMPLE-SBS31_175_63
SAMPLE-SBS31_175_64
SAMPLE-SBS31_175_65
SAMPLE-SBS31_175_66
SAMPLE-SBS31_175_67
SAMPLE-SBS31_175_68
SAMPLE-SBS31_175_69
SAMPLE-SBS31_175_7
SAMPLE-SBS31_175_70
SAMPLE-SBS31_175_71
SAMPLE-SBS31_175_72
SAMPLE-SBS31_175_73
SAMPLE-SBS31_175_74
SAMPLE-SBS31_175_75
SAMPLE-SBS31_175_76
SAMPLE-SBS31_175_77
SAMPLE-SBS31_175_78
SAMPLE-SBS31_175_79
SAMPLE-SBS31_175_8
SAMPLE-SBS31_175_80
SAMPLE-SBS31_175_81
SAMPLE-SBS31_175_82
SAMPLE-SBS31_175_83
SAMPLE-SBS31_175_84
SAMPLE-SBS31_175_85
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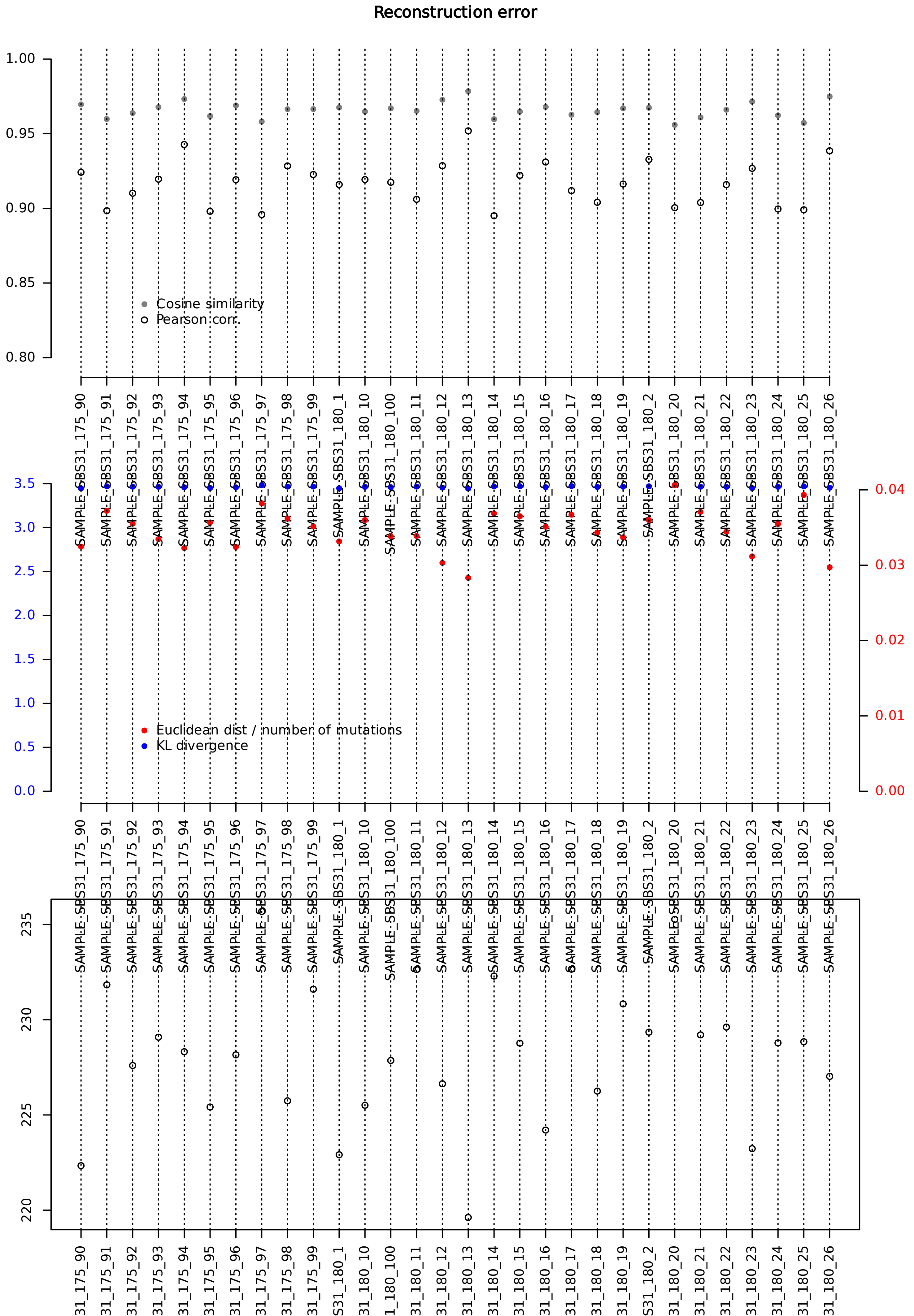
SAMPLE-SBS31_175_88
SAMPLE-SBS31_175_89
SAMPLE-SBS31_175_9


Reconstruction error
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0.85
0.80
Cosine similarity
Pearson corr.
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SAMPLE-SBS31_175_92
SAMPLE-SBS31_175_93
SAMPLE-SBS31_175_94
SAMPLE-SBS31_175_95
SAMPLE-SBS31_175_96
SAMPLE-SBS31_175_97
SAMPLE-SBS31_175_98
SAMPLE-SBS31_175_99
SAMPLE-SBS31_180_1
SAMPLE-SBS31_180_10
SAMPLE-SBS31_180_100
SAMPLE-SBS31_180_11
SAMPLE-SBS31_180_12
SAMPLE-SBS31_180_13
SAMPLE-SBS31_180_14
SAMPLE-SBS31_180_15
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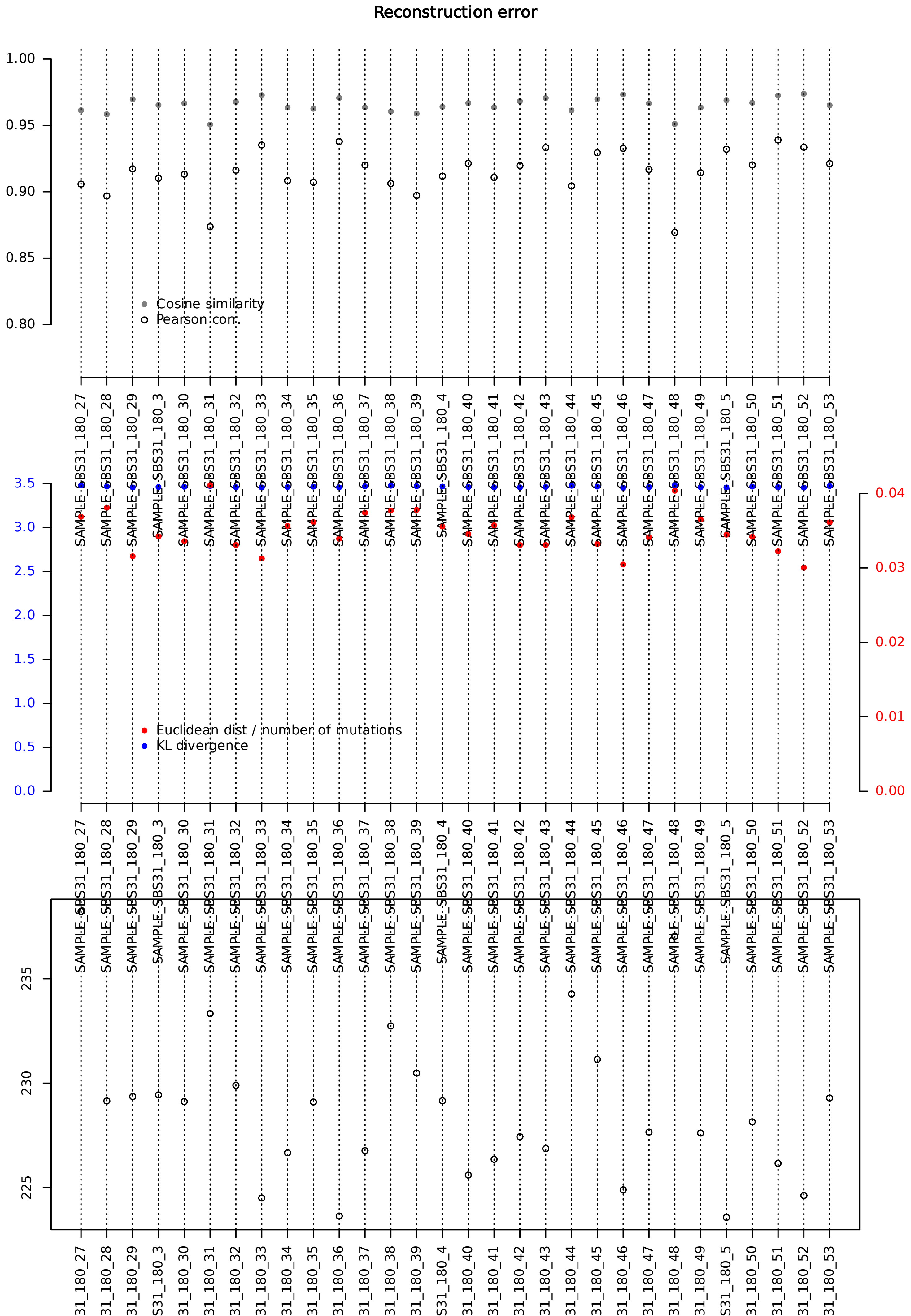
SAMPLE-SBS31_180_17
SAMPLE-SBS31_180_18
SAMPLE-SBS31_180_19
SAMPLE-SBS31_180_2
SAMPLE-SBS31_180_20
SAMPLE-SBS31_180_21
SAMPLE-SBS31_180_22
SAMPLE-SBS31_180_23
SAMPLE-SBS31_180_24
SAMPLE-SBS31_180_25
SAMPLE-SBS31_180_26
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
220


Reconstruction error
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0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
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3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
SAMPLE-SBS31_180_27
SAMPLE-SBS31_180_28
SAMPLE-SBS31_180_29
SAMPLE-SBS31_180_3
SAMPLE-SBS31_180_30
SAMPLE-SBS31_180_31
SAMPLE-SBS31_180_32
SAMPLE-SBS31_180_33
SAMPLE-SBS31_180_34
SAMPLE-SBS31_180_35
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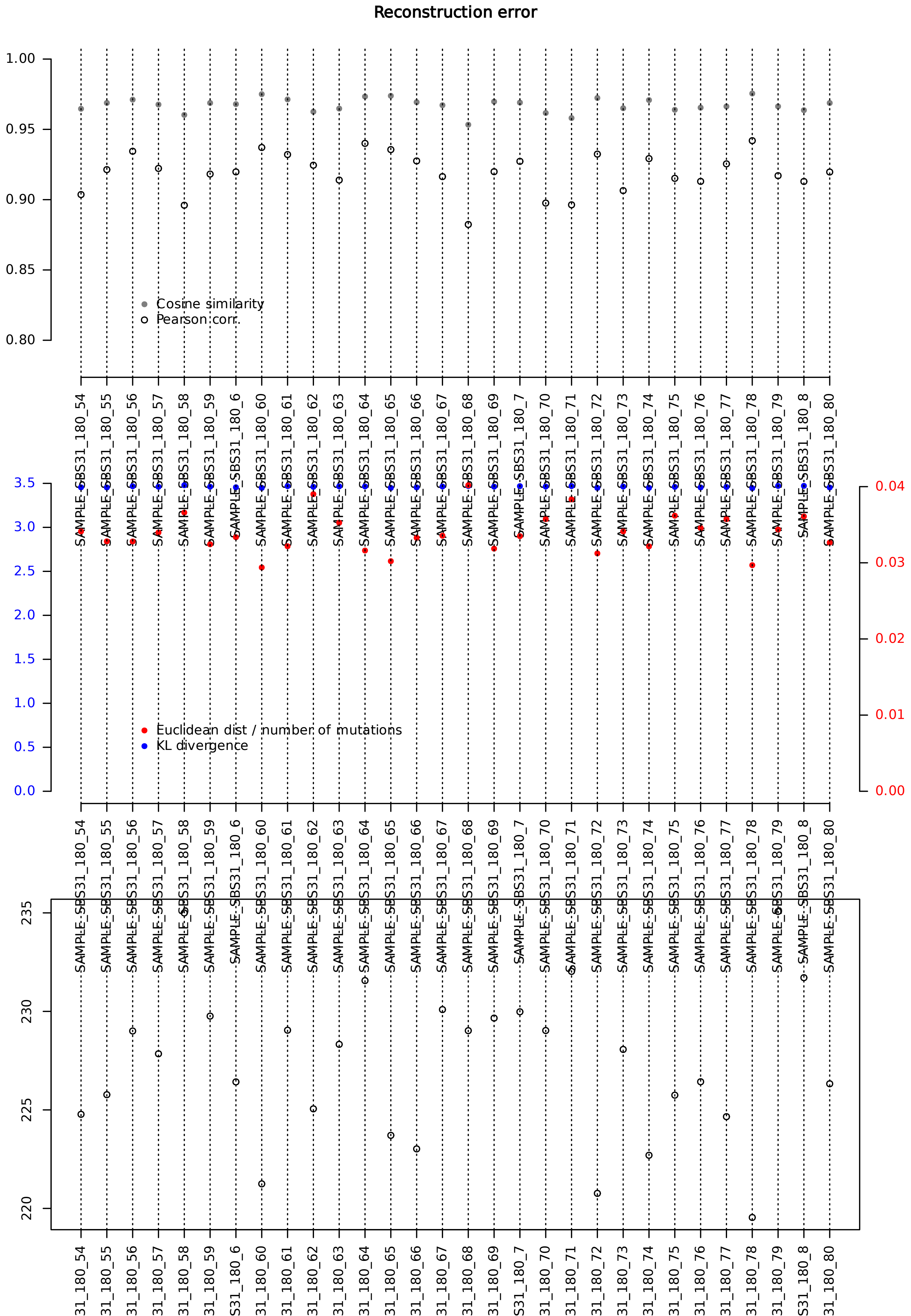
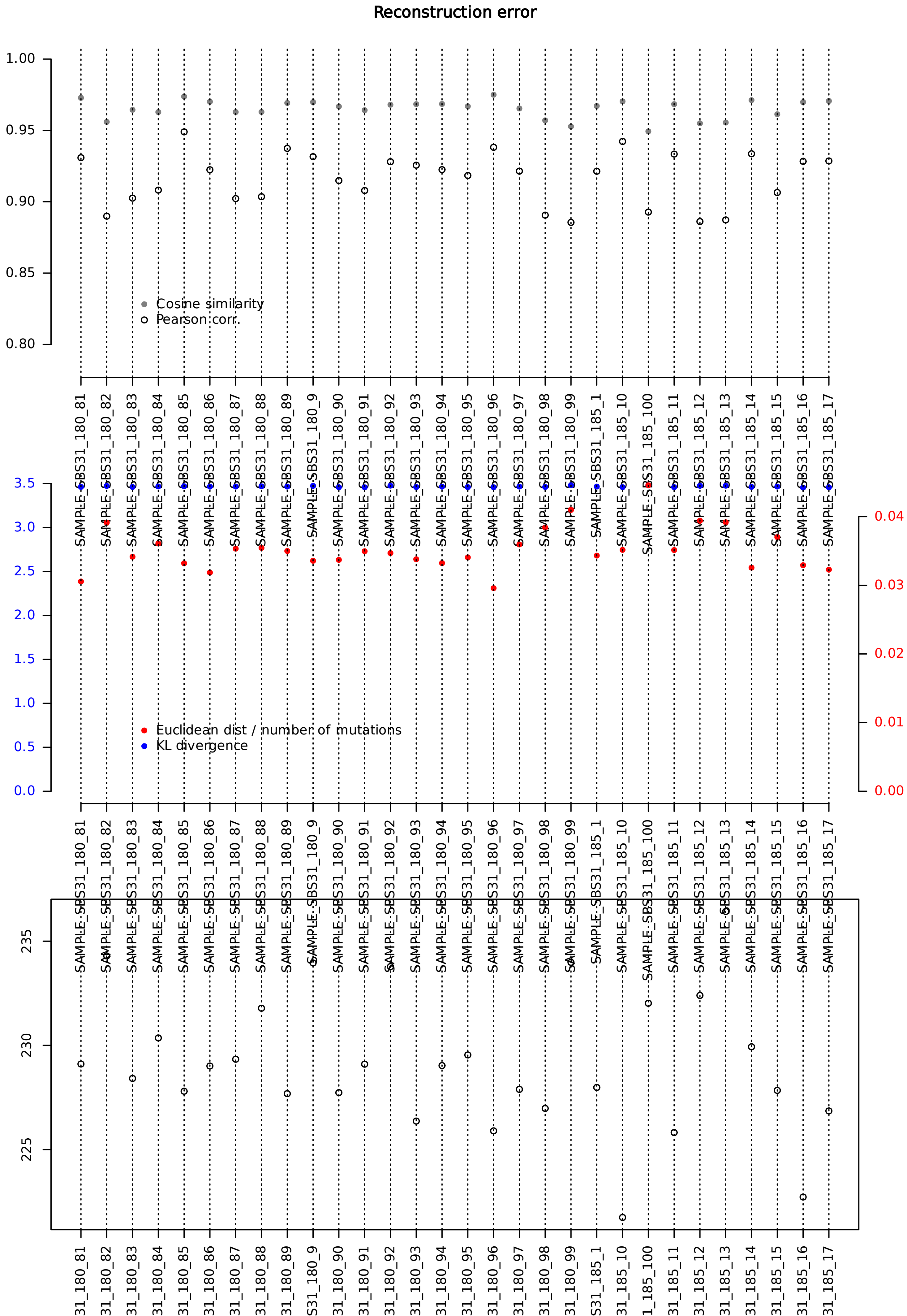

Reconstruction error


Reconstruction error
1.00
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
SAMPLE-SBS31_180_81
SAMPLE-SBS31_180_82
SAMPLE-SBS31_180_83
SAMPLE-SBS31_180_84
SAMPLE-SBS31_180_85
SAMPLE-SBS31_180_86
SAMPLE-SBS31_180_87
SAMPLE-SBS31_180_88
SAMPLE-SBS31_180_89
SAMPLE-SBS31_180_9
SAMPLE-SBS31_180_90
SAMPLE-SBS31_180_91
SAMPLE-SBS31_180_92
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SAMPLE-SBS31_180_95
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SAMPLE-SBS31_180_97
SAMPLE-SBS31_180_98
SAMPLE-SBS31_180_99
SAMPLE-SBS31_185_1
SAMPLE-SBS31_185_10
SAMPLE-SBS31_185_100
SAMPLE-SBS31_185_11
SAMPLE-SBS31_185_12
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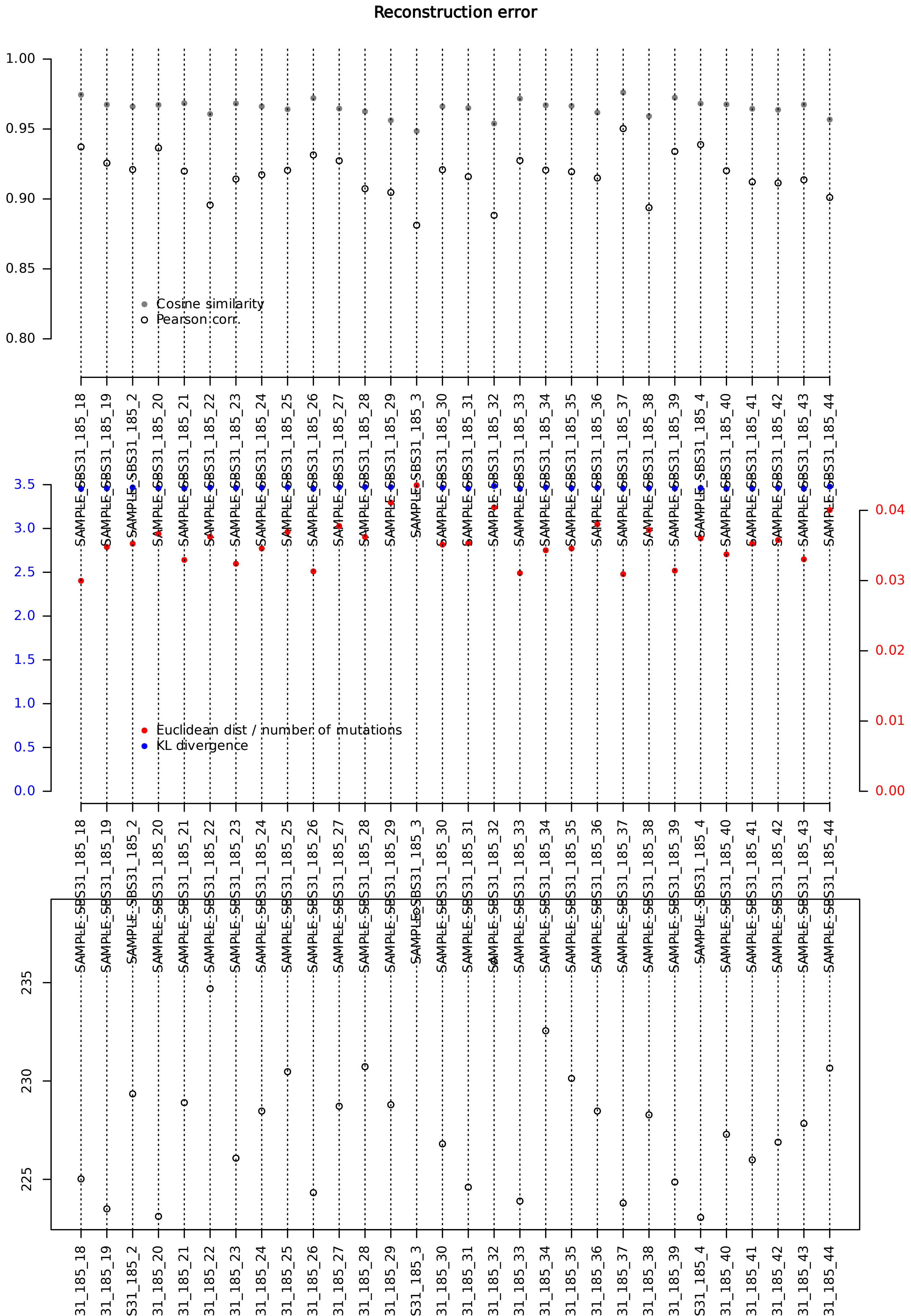
SAMPLE-SBS31_185_16
SAMPLE-SBS31_185_17


Reconstruction error
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0.95
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0.85
0.80
Cosine similarity
Pearson corr.
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SAMPLE-SBS31_185_19
SAMPLE-SBS31_185_2
SAMPLE-SBS31_185_20
SAMPLE-SBS31_185_21
SAMPLE-SBS31_185_22
SAMPLE-SBS31_185_23
SAMPLE-SBS31_185_24
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SAMPLE-SBS31_185_26
SAMPLE-SBS31_185_27
SAMPLE-SBS31_185_28
SAMPLE-SBS31_185_29
SAMPLE-SBS31_185_3
SAMPLE-SBS31_185_30
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SAMPLE-SBS31_185_32
SAMPLE-SBS31_185_33
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SAMPLE-SBS31_185_35
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SAMPLE-SBS31_185_4
SAMPLE-SBS31_185_40
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SAMPLE-SBS31_185_43
SAMPLE-SBS31_185_44
3.5
3.0
2.5
2.0
1.5
1.0
0.5
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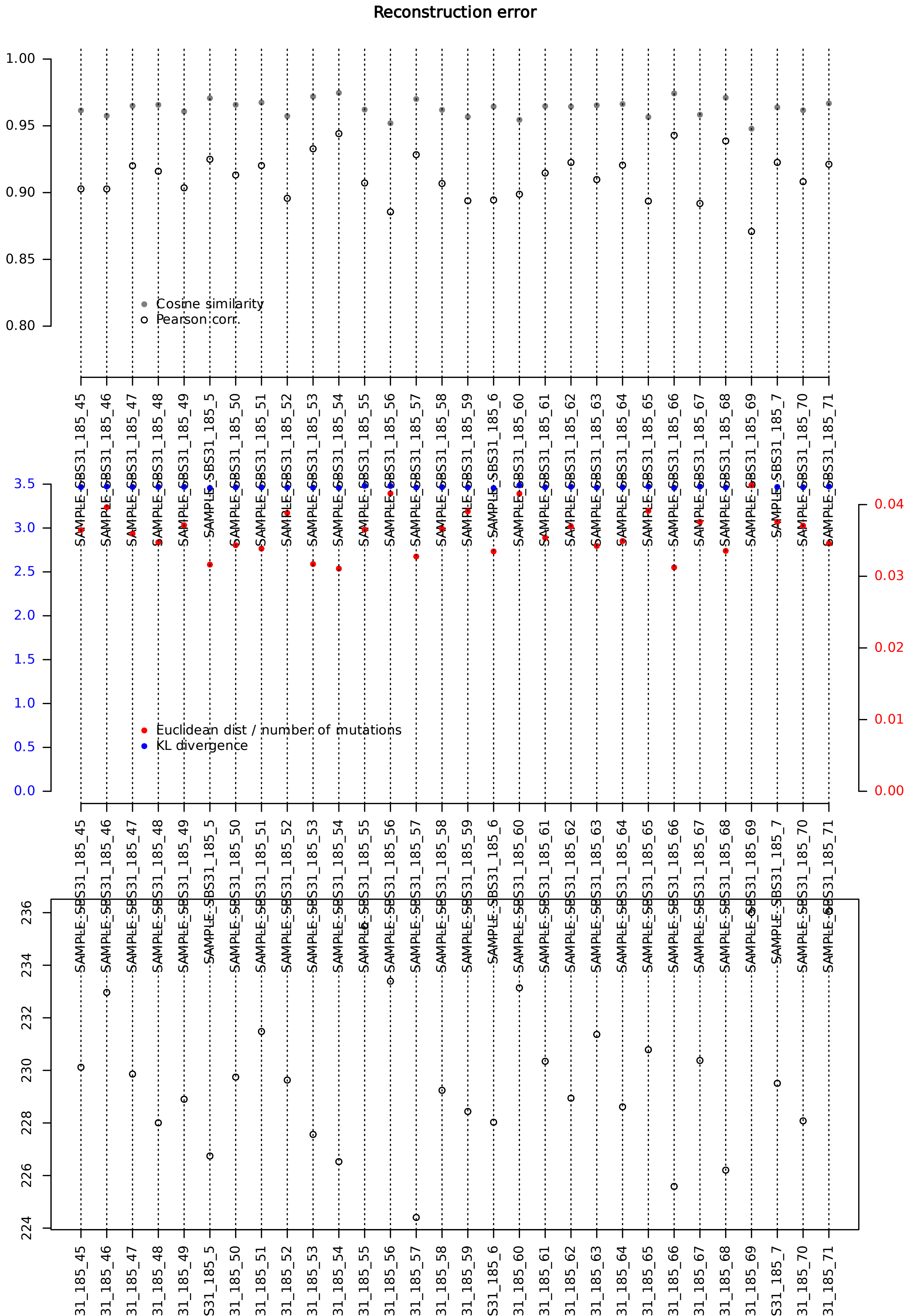
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225


Reconstruction error
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0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
236
234
232
230
228
226
224
SAMPLE-SBS31_185_45
SAMPLE-SBS31_185_46
SAMPLE-SBS31_185_47
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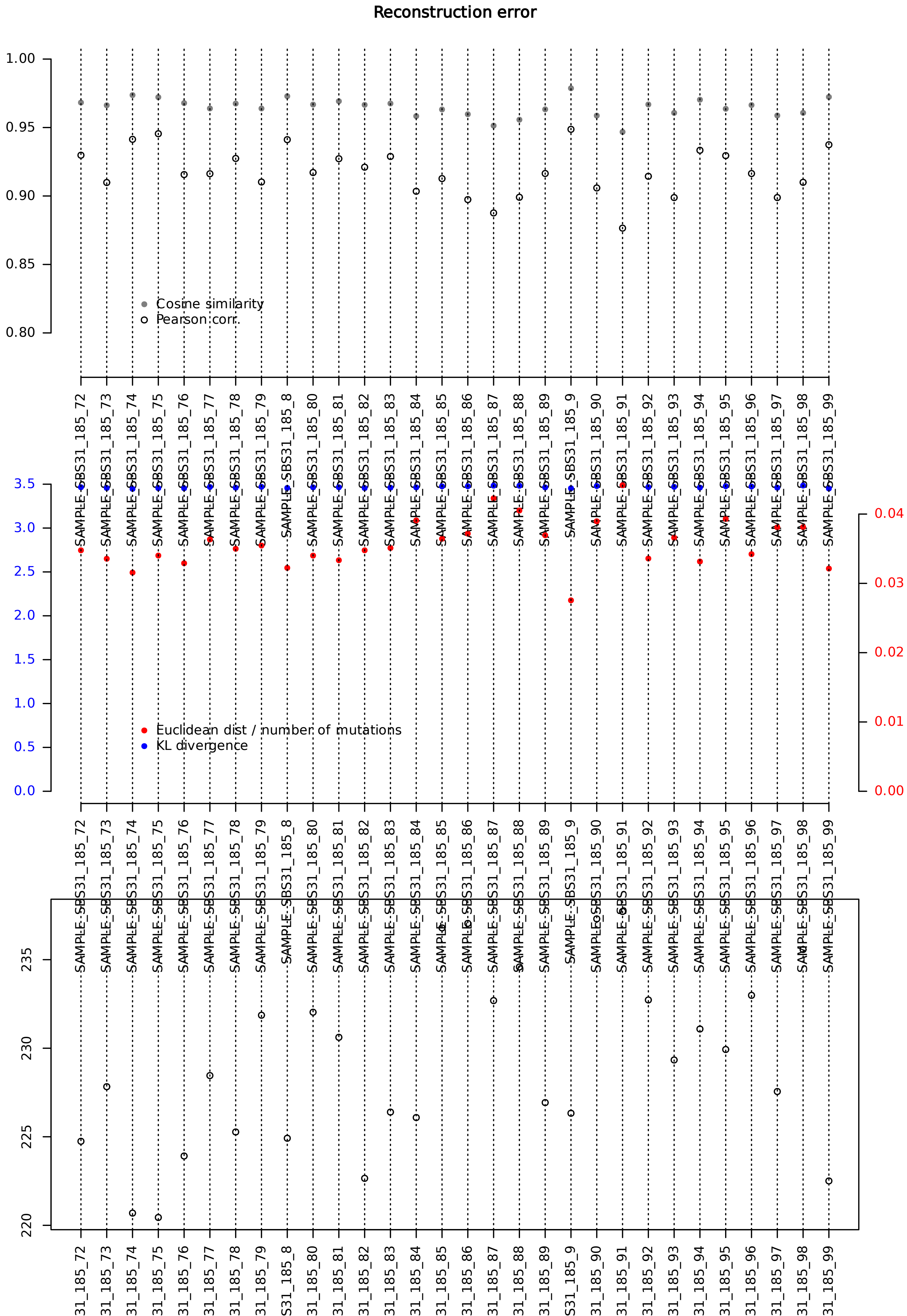
SAMPLE-SBS31_185_70
SAMPLE-SBS31_185_71


Reconstruction error
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0.95
0.90
0.85
0.80
● Cosine similarity
○ Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
● Euclidean dist / number of mutations
● KL divergence
235
230
225
220
SAMPLE-SBS31_185_72
SAMPLE-SBS31_185_73
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SAMPLE-SBS31_185_75
SAMPLE-SBS31_185_76
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SAMPLE-SBS31_185_78
SAMPLE-SBS31_185_79
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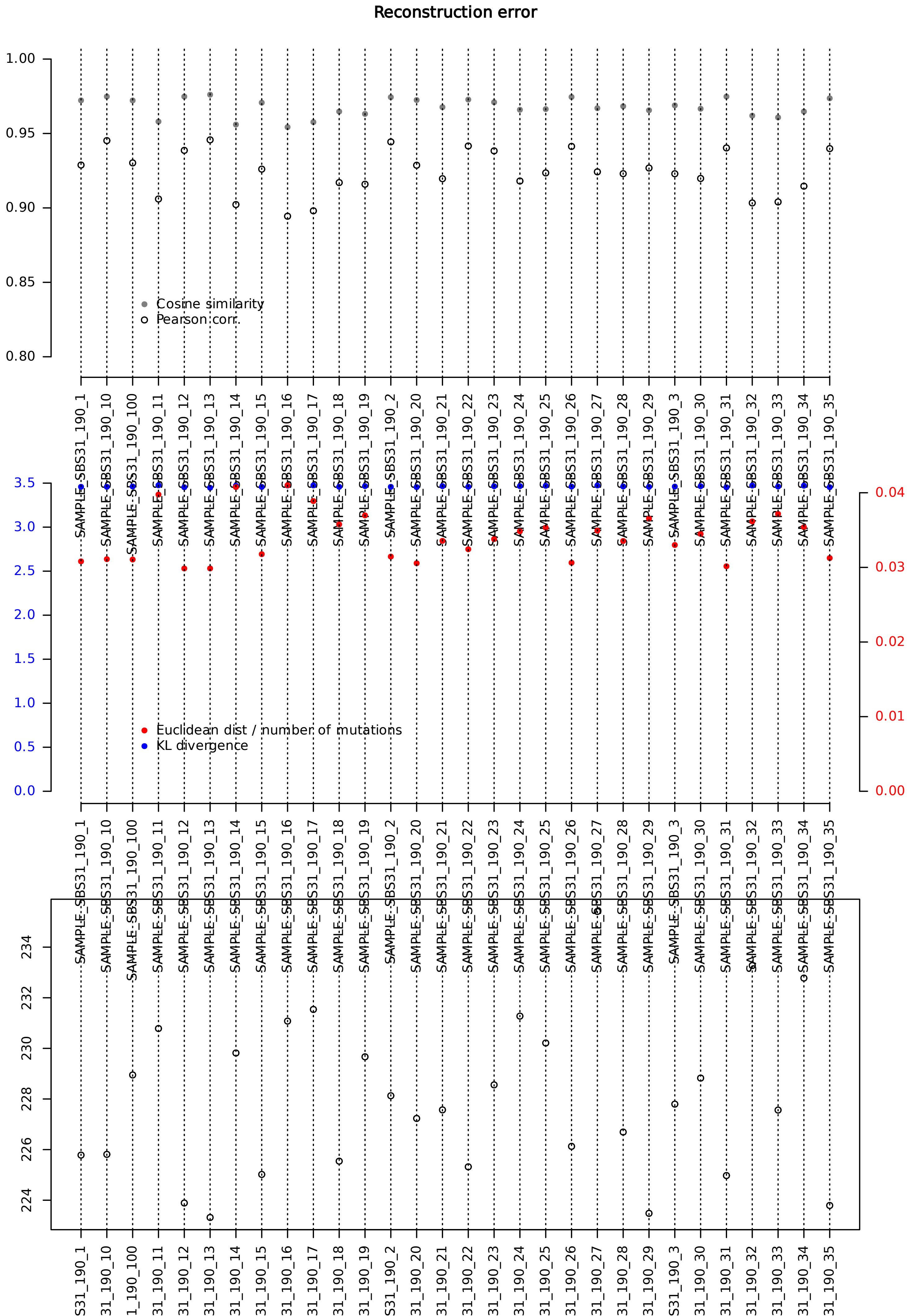
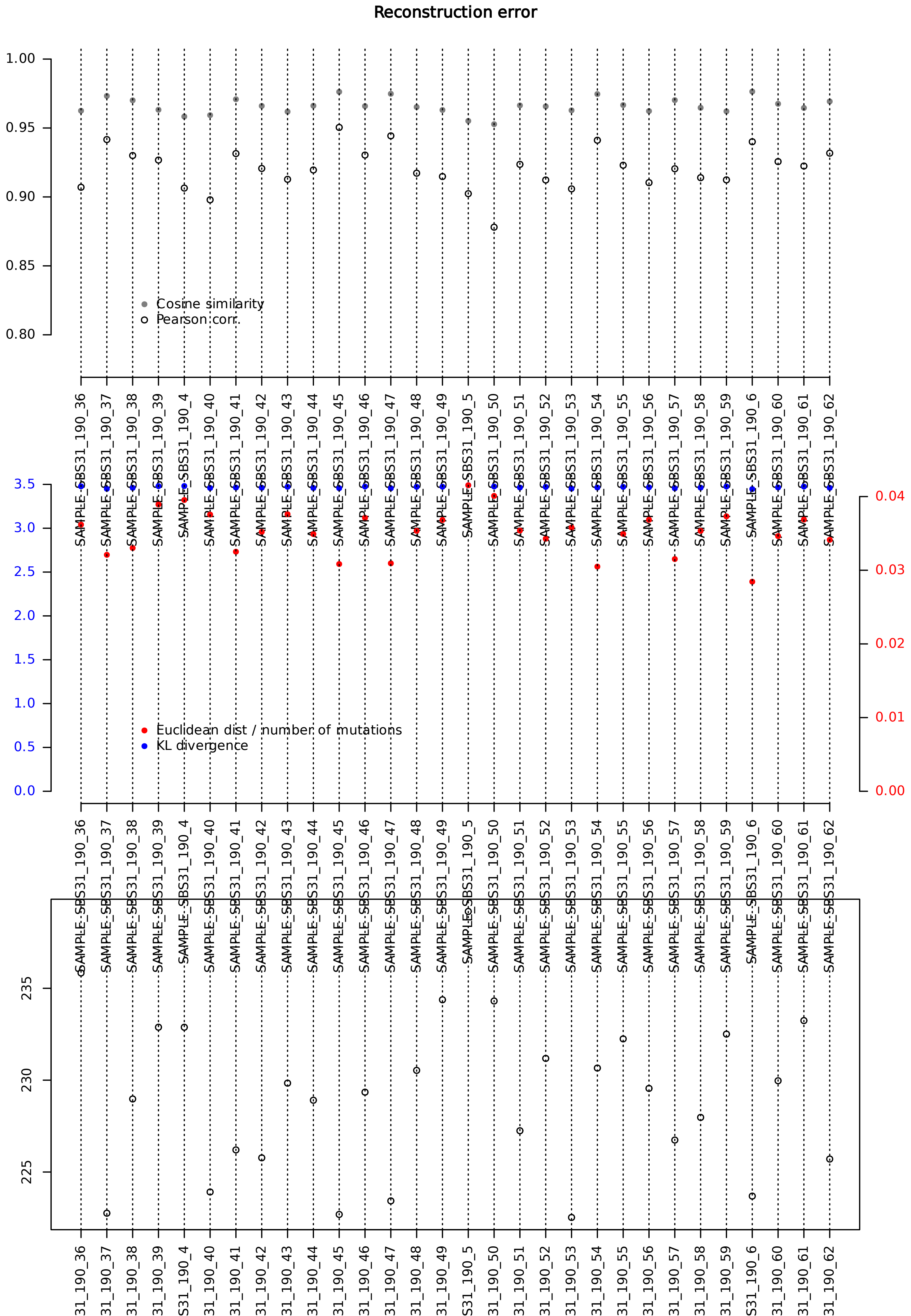

Reconstruction error


Reconstruction error
1.00
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
SAMPLE-SBS31_190_36
SAMPLE-SBS31_190_37
SAMPLE-SBS31_190_38
SAMPLE-SBS31_190_39
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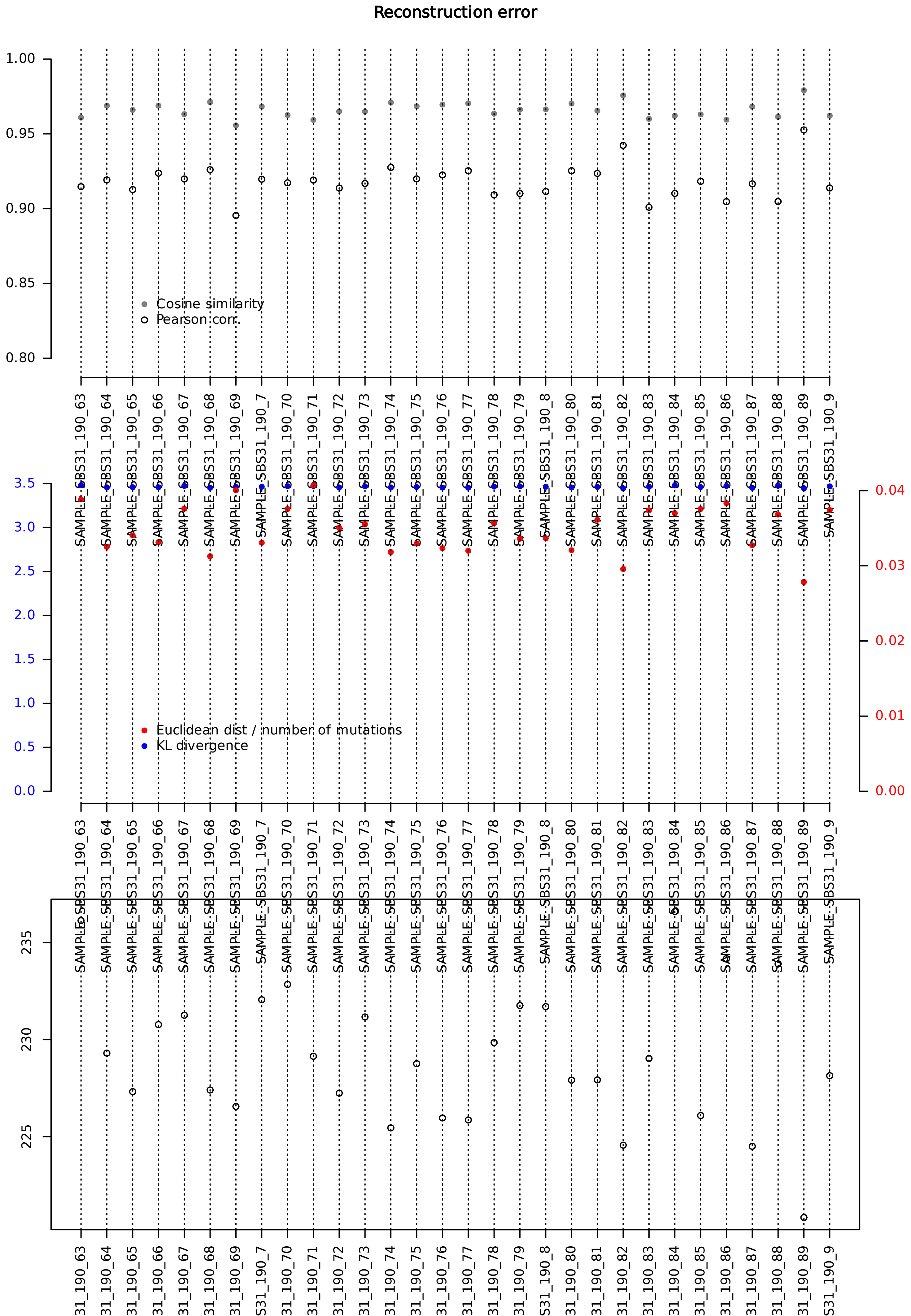
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0.90
0.85
0.80
Cosine similarity
Pearson corr.
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3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
SAMPLE-SBS31_190_63
SAMPLE-SBS31_190_64
SAMPLE-SBS31_190_65
SAMPLE-SBS31_190_66
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SAMPLE-SBS31_190_85
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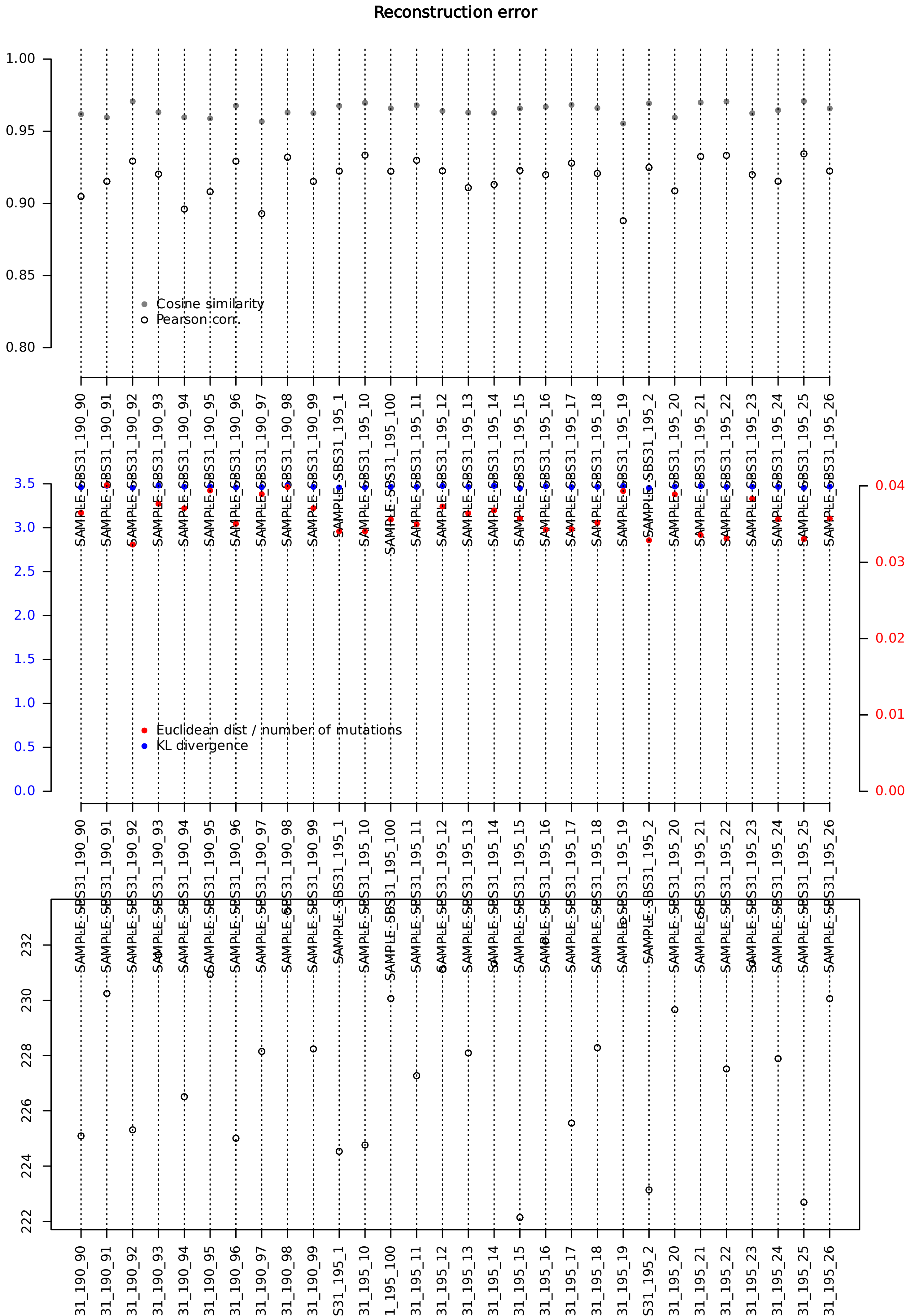
SAMPLE-SBS31_190_89
SAMPLE-SBS31_190_9


Reconstruction error
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0.90
0.85
0.80
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
232
230
228
226
224
222
SAMPLE-SBS31_190_90
SAMPLE-SBS31_190_91
SAMPLE-SBS31_190_92
SAMPLE-SBS31_190_93
SAMPLE-SBS31_190_94
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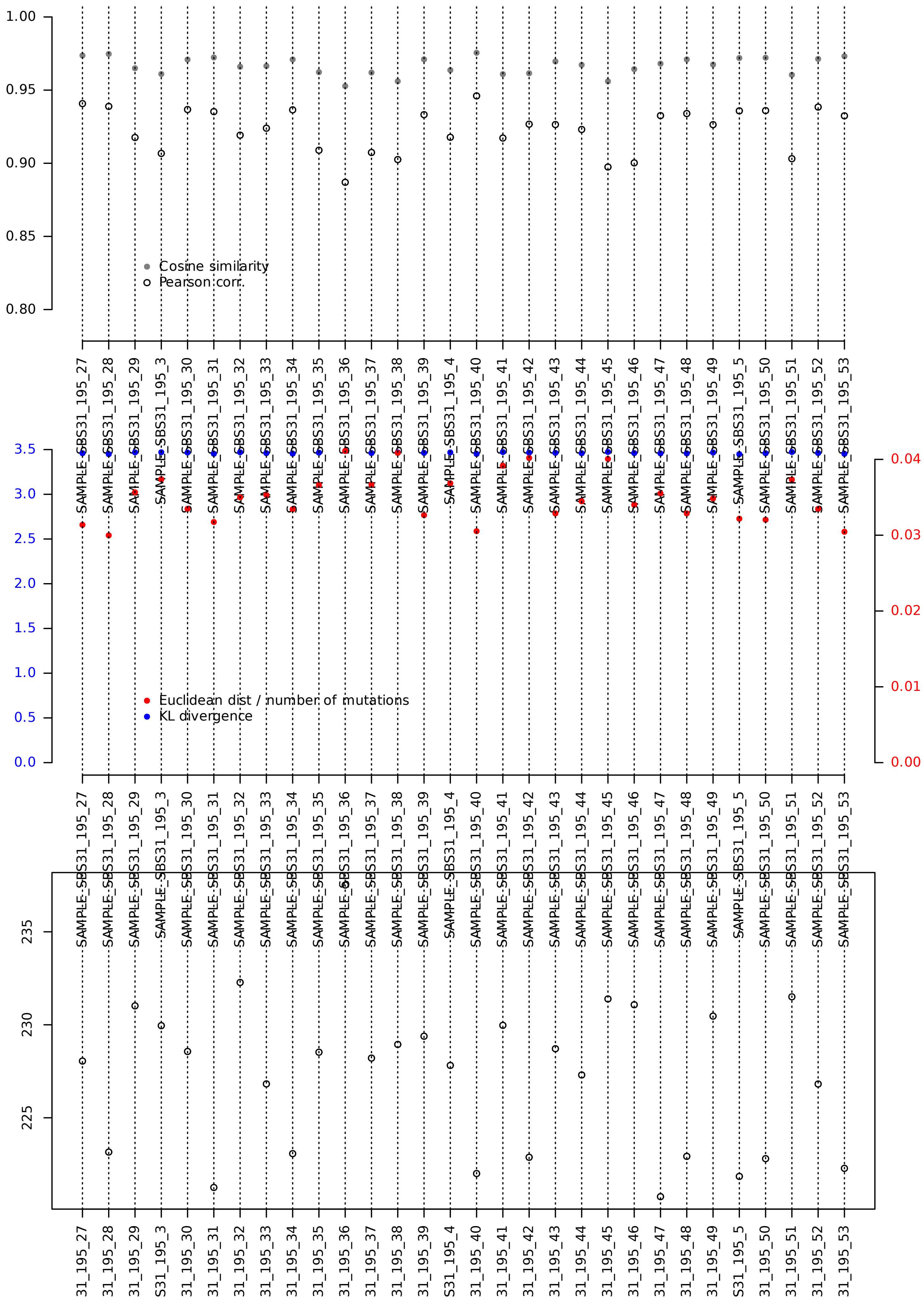
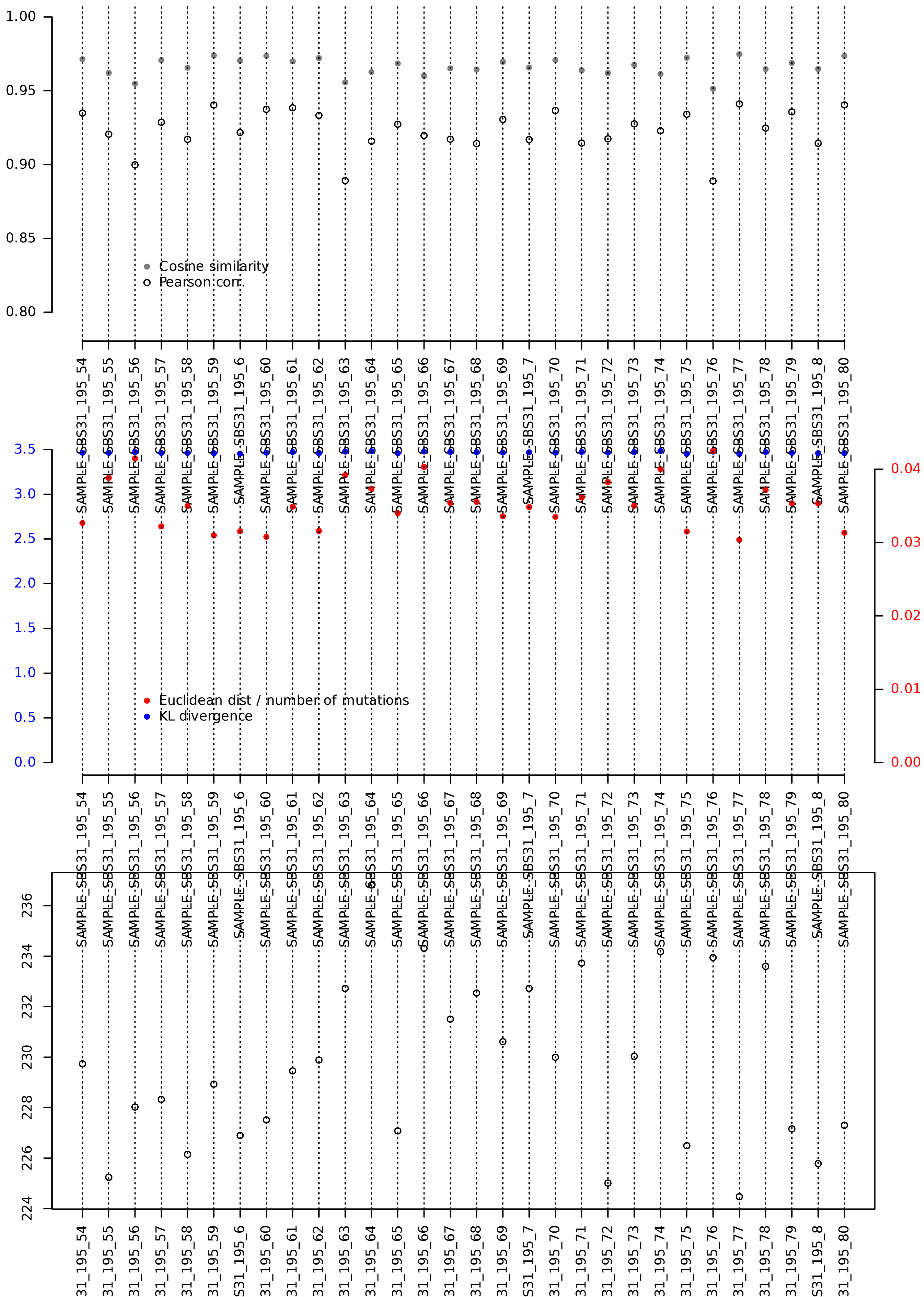
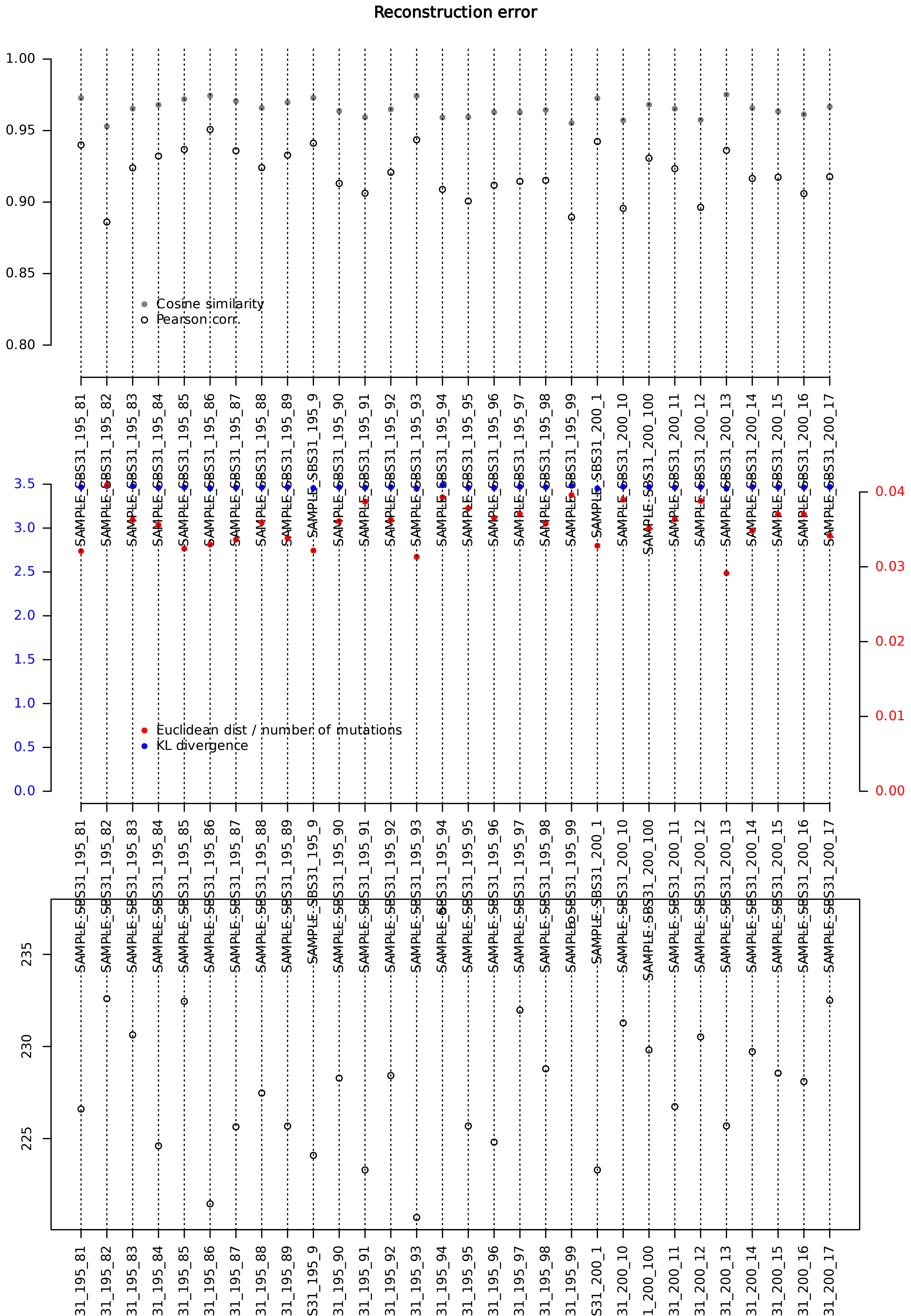
SAMPLE-SBS31_190_96
SAMPLE-SBS31_190_97
SAMPLE-SBS31_190_98
SAMPLE-SBS31_190_99
SAMPLE-SBS31_195_1
SAMPLE-SBS31_195_10
SAMPLE-SBS31_195_100
SAMPLE-SBS31_195_11
SAMPLE-SBS31_195_12
SAMPLE-SBS31_195_13
SAMPLE-SBS31_195_14
SAMPLE-SBS31_195_15
SAMPLE-SBS31_195_16
SAMPLE-SBS31_195_17
SAMPLE-SBS31_195_18
SAMPLE-SBS31_195_19
SAMPLE-SBS31_195_2
SAMPLE-SBS31_195_20
SAMPLE-SBS31_195_21
SAMPLE-SBS31_195_22
SAMPLE-SBS31_195_23
SAMPLE-SBS31_195_24
SAMPLE-SBS31_195_25
SAMPLE-SBS31_195_26

Reconstruction error

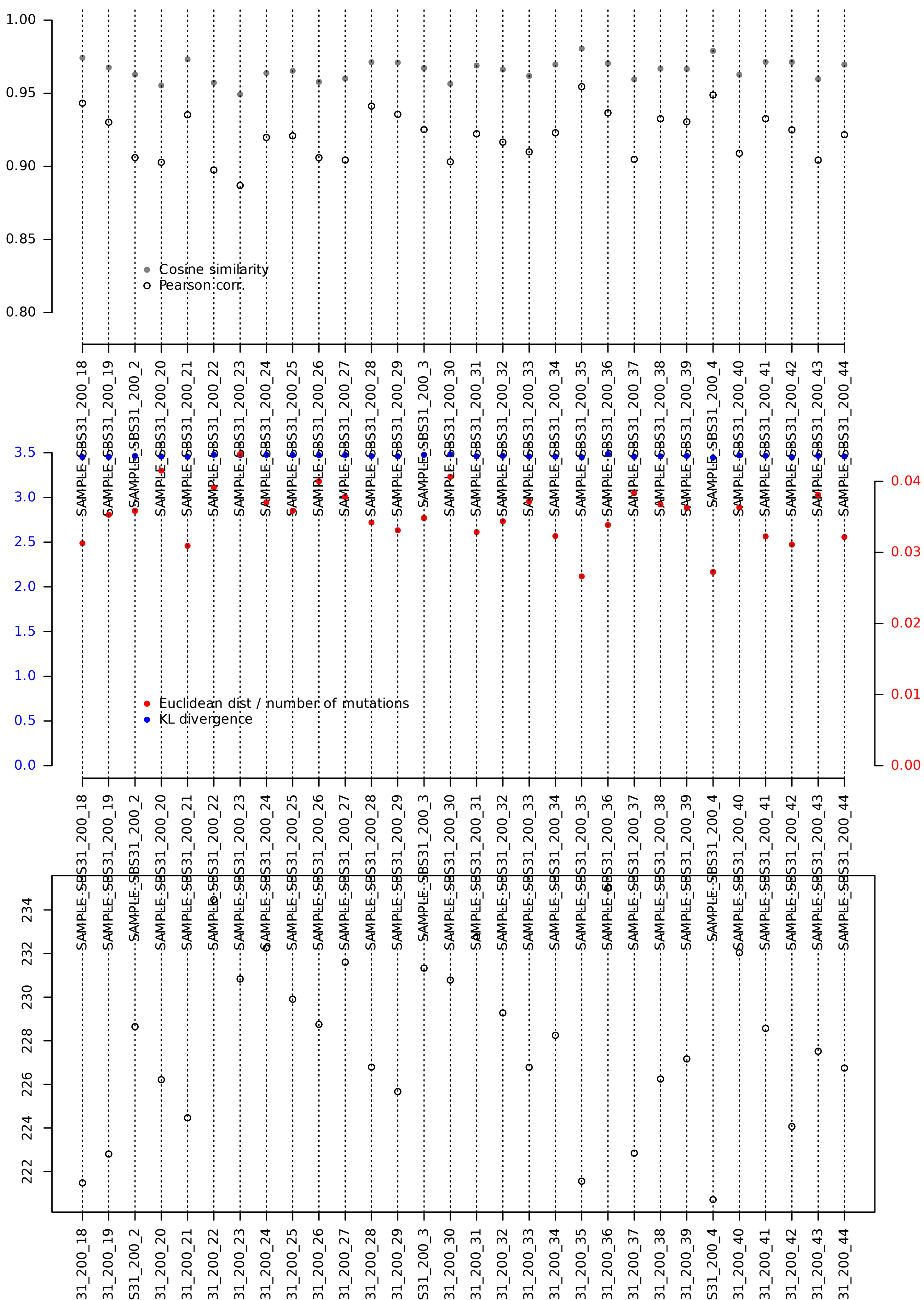


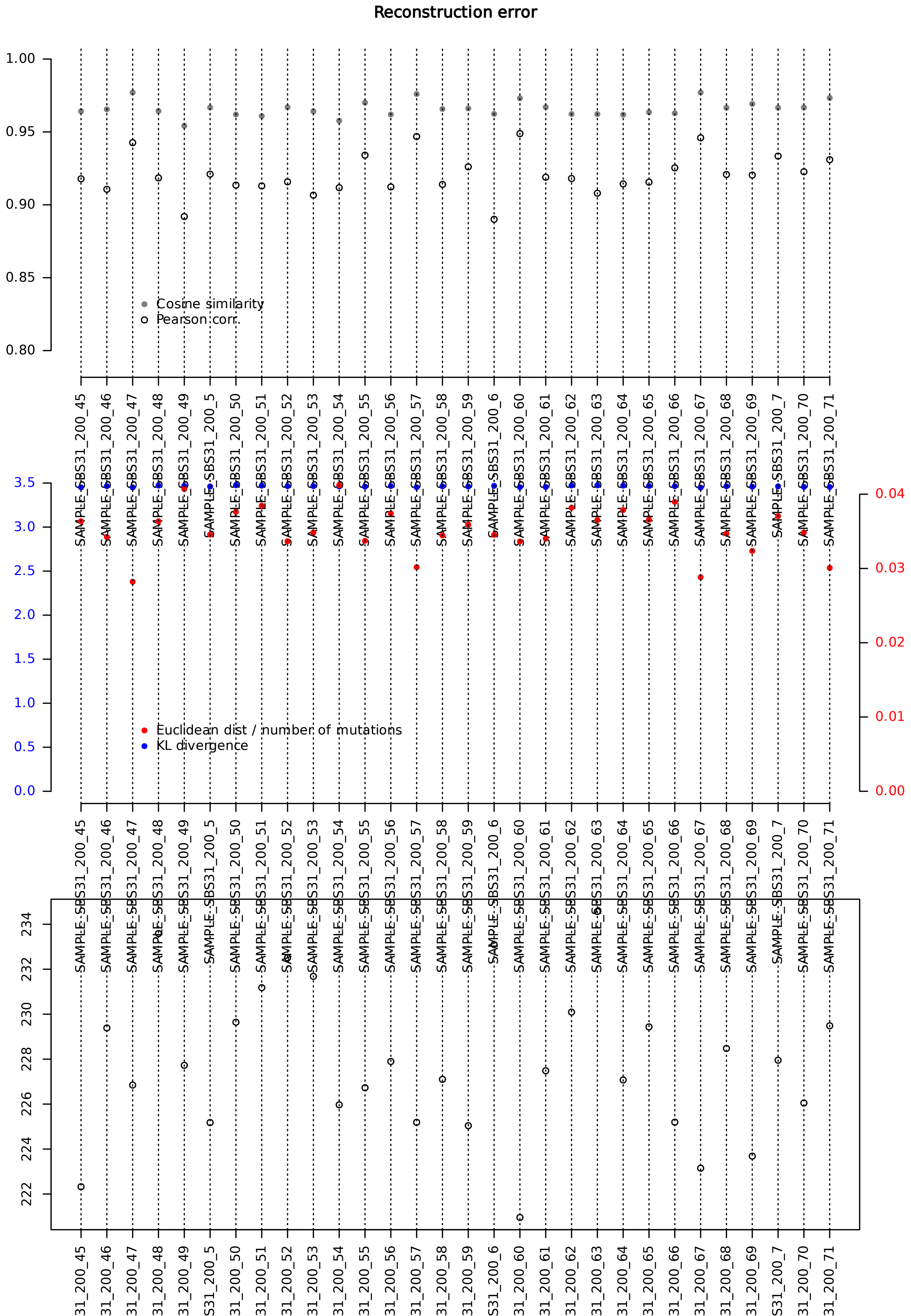
Reconstruction error

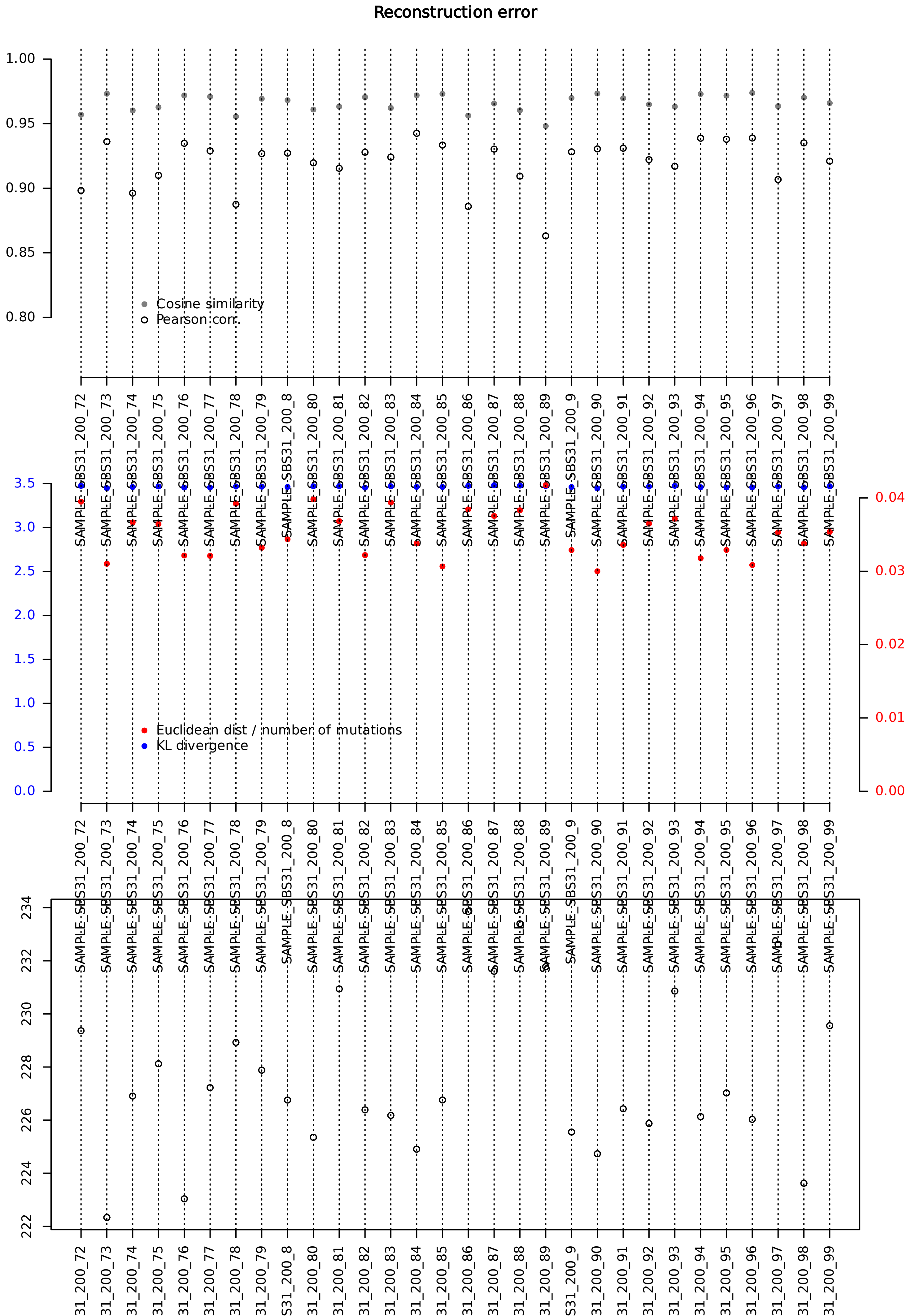


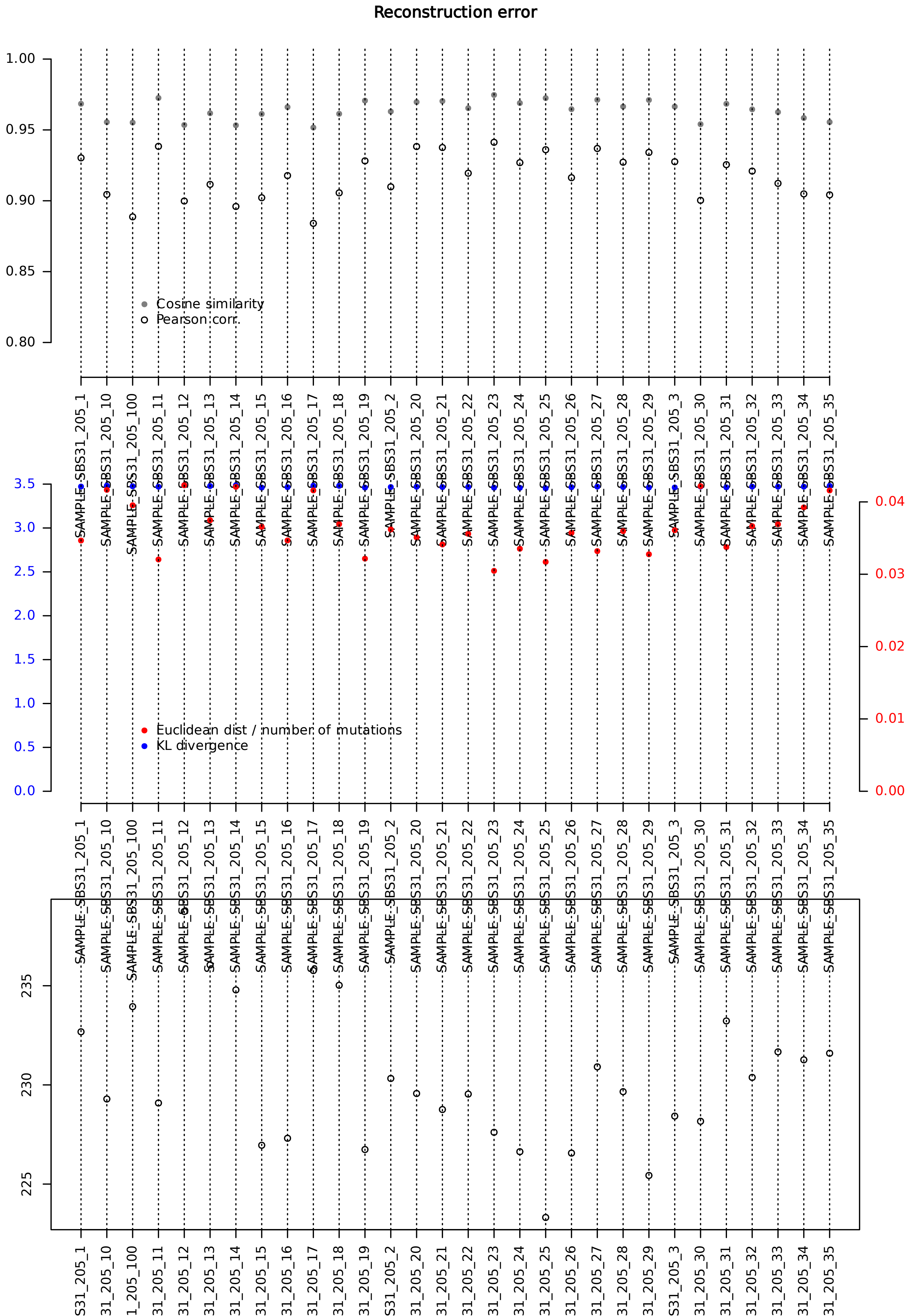

Reconstruction error
1.00
0.95
0.90
0.85
0.80
● Cosine similarity
○ Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
● Euclidean dist / number of mutations
● KL divergence
235
230
225
SAMPLE-SBS31_195_81
SAMPLE-SBS31_195_82
SAMPLE-SBS31_195_83
SAMPLE-SBS31_195_84
SAMPLE-SBS31_195_85
SAMPLE-SBS31_195_86
SAMPLE-SBS31_195_87
SAMPLE-SBS31_195_88
SAMPLE-SBS31_195_89
SAMPLE-SBS31_195_9
SAMPLE-SBS31_195_90
SAMPLE-SBS31_195_91
SAMPLE-SBS31_195_92
SAMPLE-SBS31_195_93
SAMPLE-SBS31_195_94
SAMPLE-SBS31_195_95
SAMPLE-SBS31_195_96
SAMPLE-SBS31_195_97
SAMPLE-SBS31_195_98
SAMPLE-SBS31_195_99
SAMPLE-SBS31_200_1
SAMPLE-SBS31_200_10
SAMPLE-SBS31_200_100
SAMPLE-SBS31_200_11
SAMPLE-SBS31_200_12
SAMPLE-SBS31_200_13
SAMPLE-SBS31_200_14
SAMPLE-SBS31_200_15
SAMPLE-SBS31_200_16
SAMPLE-SBS31_200_17

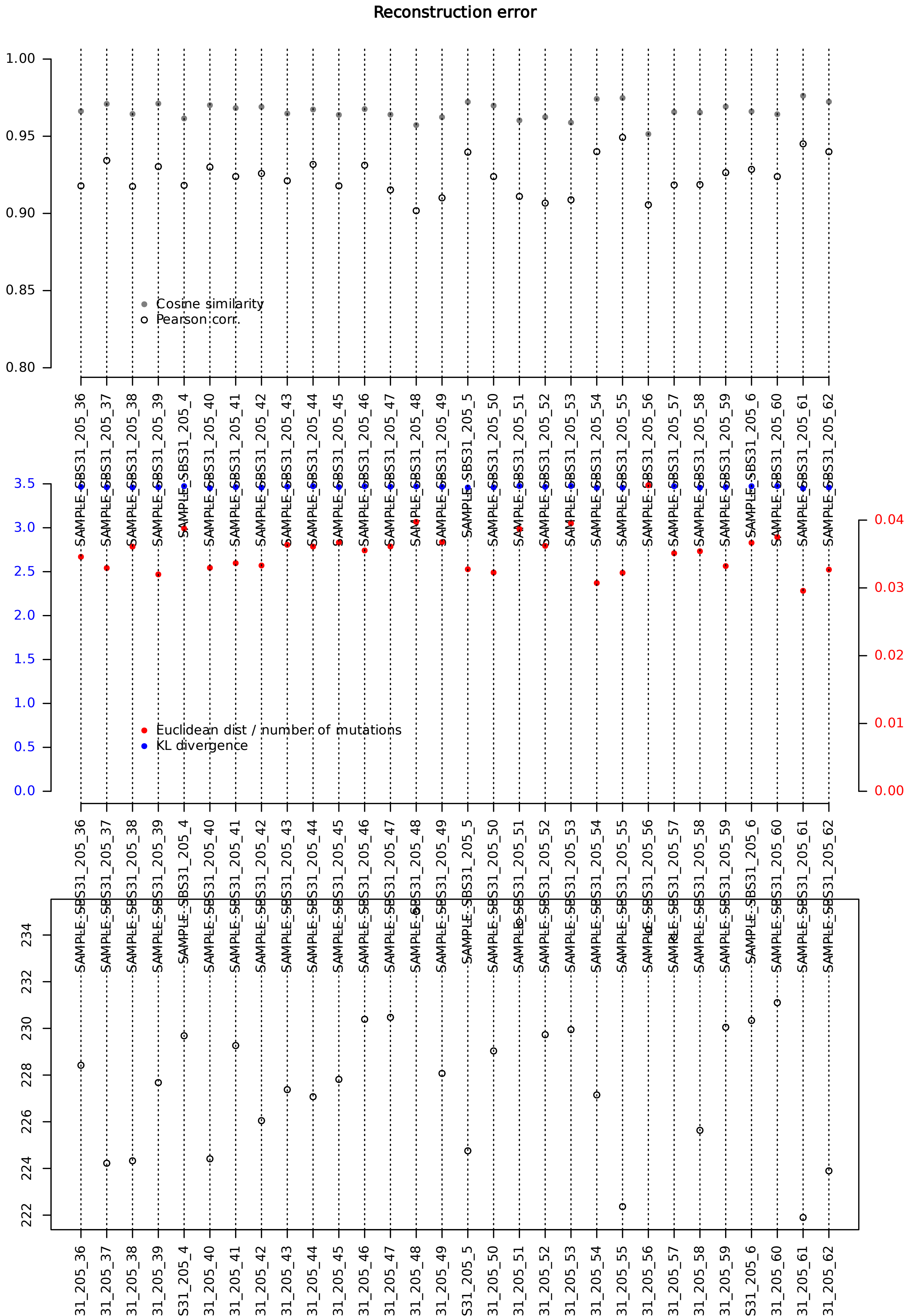
Reconstruction error

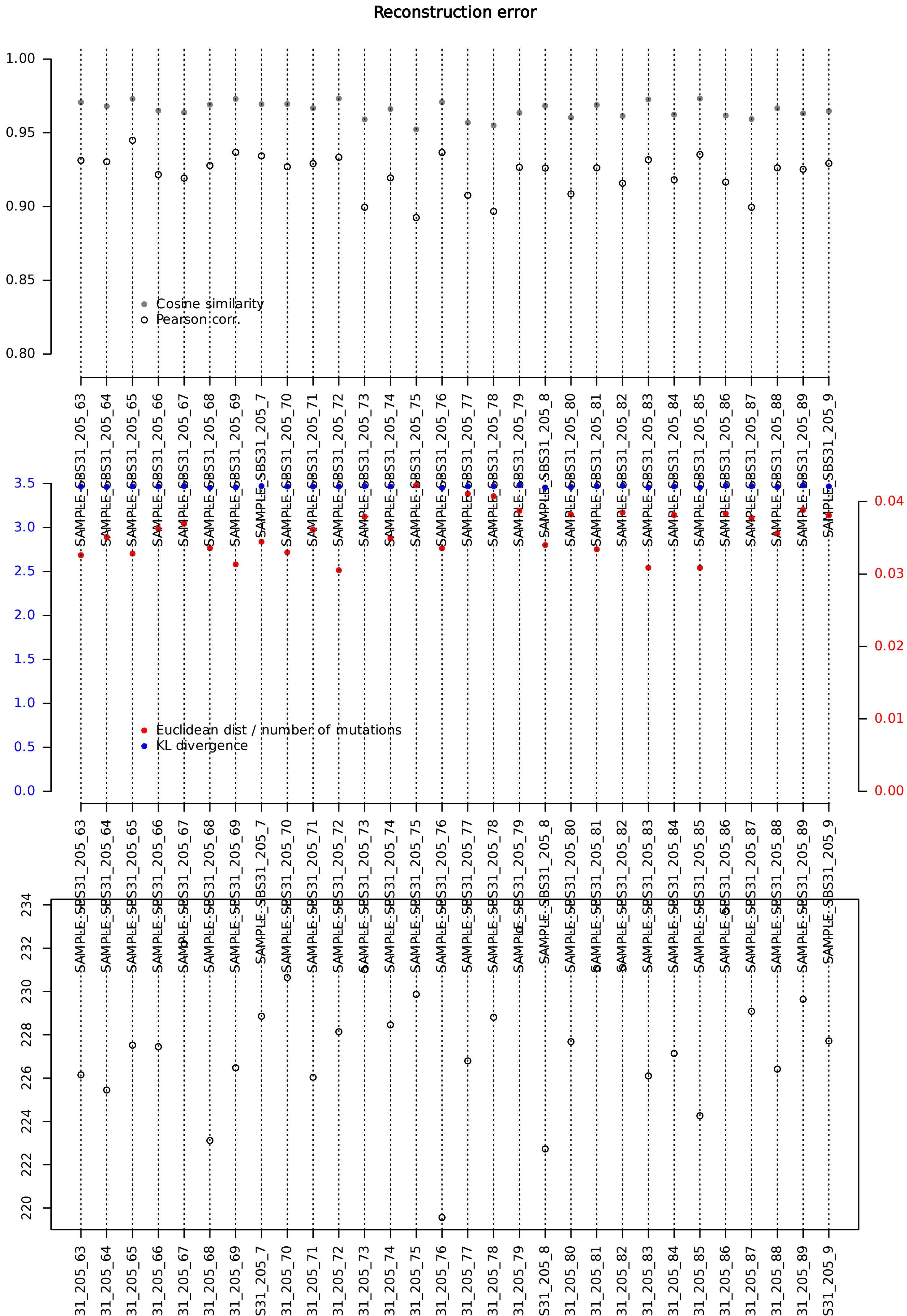



Reconstruction error
1.00
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
234
232
230
228
226
224
222
SAMPLE-SBS31_200_45
SAMPLE-SBS31_200_46
SAMPLE-SBS31_200_47
SAMPLE-SBS31_200_48
SAMPLE-SBS31_200_49
SAMPLE-SBS31_200_5
SAMPLE-SBS31_200_50
SAMPLE-SBS31_200_51
SAMPLE-SBS31_200_52
SAMPLE-SBS31_200_53
SAMPLE-SBS31_200_54
SAMPLE-SBS31_200_55
SAMPLE-SBS31_200_56
SAMPLE-SBS31_200_57
SAMPLE-SBS31_200_58
SAMPLE-SBS31_200_59
SAMPLE-SBS31_200_6
SAMPLE-SBS31_200_60
SAMPLE-SBS31_200_61
SAMPLE-SBS31_200_62
SAMPLE-SBS31_200_63
SAMPLE-SBS31_200_64
SAMPLE-SBS31_200_65
SAMPLE-SBS31_200_66
SAMPLE-SBS31_200_67
SAMPLE-SBS31_200_68
SAMPLE-SBS31_200_69
SAMPLE-SBS31_200_7
SAMPLE-SBS31_200_70
SAMPLE-SBS31_200_71

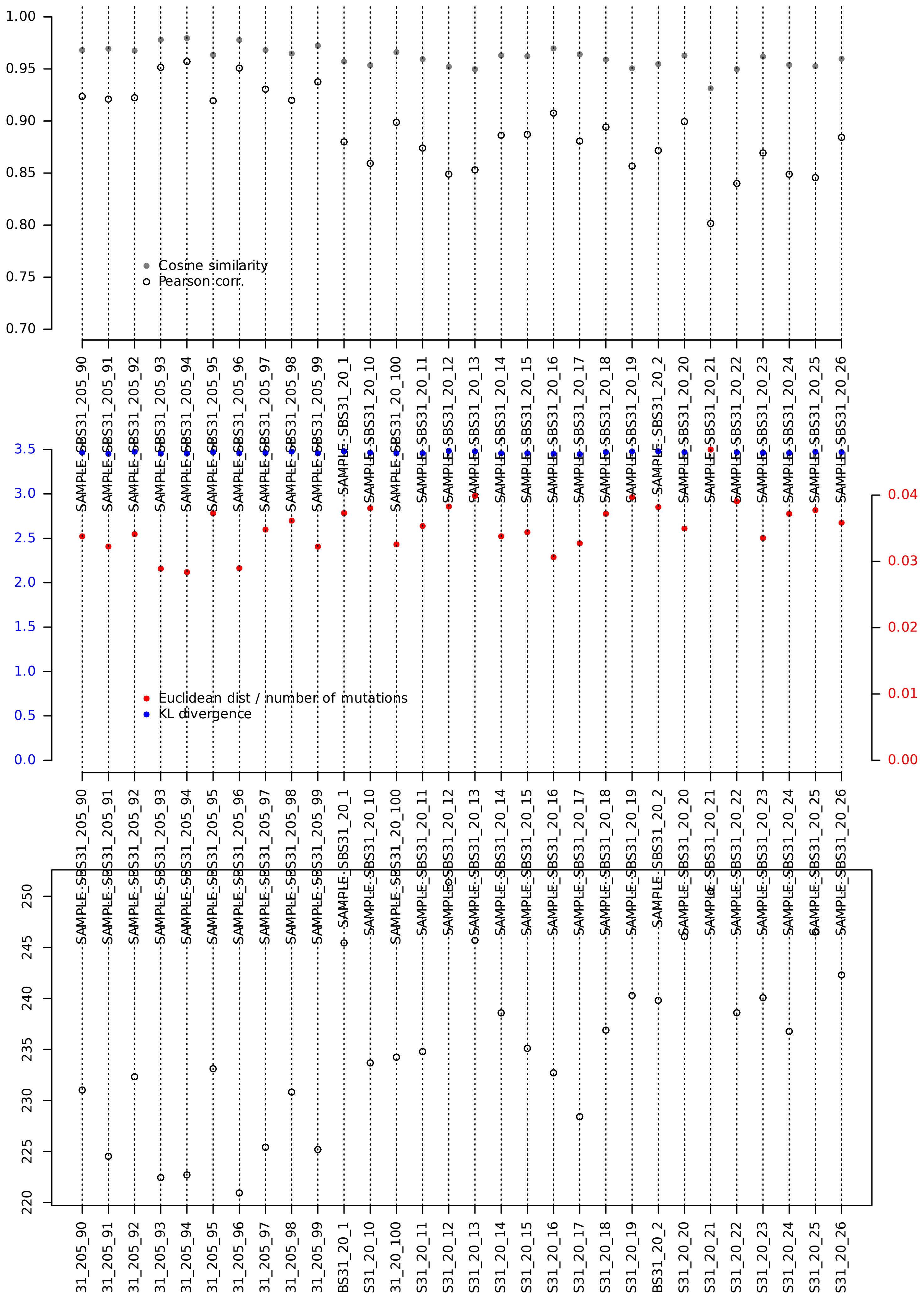

Reconstruction error
1.00
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
234
232
230
228
226
224
222
SAMPLE-SBS31_200_72
SAMPLE-SBS31_200_73
SAMPLE-SBS31_200_74
SAMPLE-SBS31_200_75
SAMPLE-SBS31_200_76
SAMPLE-SBS31_200_77
SAMPLE-SBS31_200_78
SAMPLE-SBS31_200_79
SAMPLE-SBS31_200_8
SAMPLE-SBS31_200_80
SAMPLE-SBS31_200_81
SAMPLE-SBS31_200_82
SAMPLE-SBS31_200_83
SAMPLE-SBS31_200_84
SAMPLE-SBS31_200_85
SAMPLE-SBS31_200_86
SAMPLE-SBS31_200_87
SAMPLE-SBS31_200_88
SAMPLE-SBS31_200_89
SAMPLE-SBS31_200_9
SAMPLE-SBS31_200_90
SAMPLE-SBS31_200_91
SAMPLE-SBS31_200_92
SAMPLE-SBS31_200_93
SAMPLE-SBS31_200_94
SAMPLE-SBS31_200_95
SAMPLE-SBS31_200_96
SAMPLE-SBS31_200_97
SAMPLE-SBS31_200_98
SAMPLE-SBS31_200_99

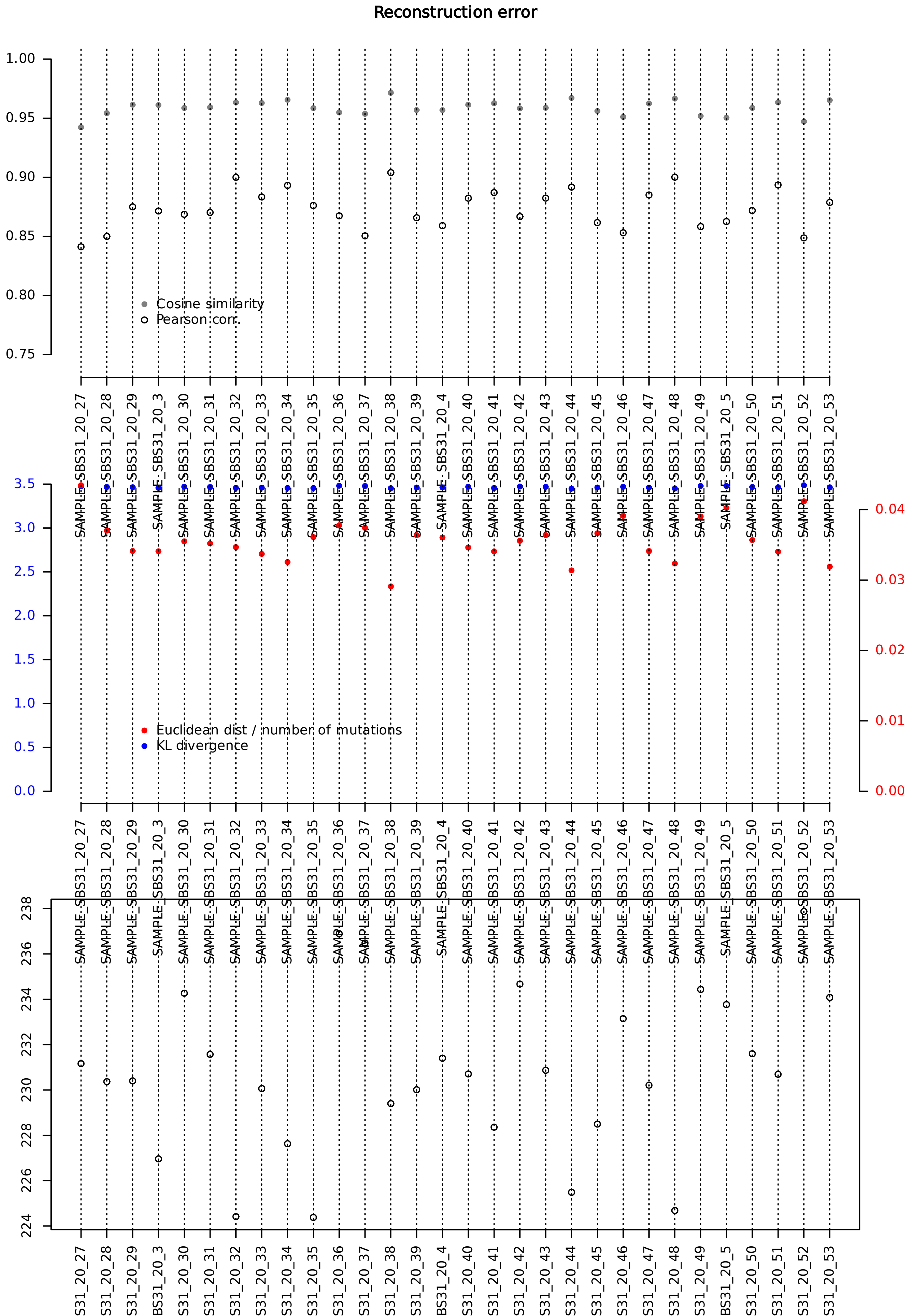

Reconstruction error
1.00
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
SAMPLE-SBS31_205_1
SAMPLE-SBS31_205_10
SAMPLE-SBS31_205_100
SAMPLE-SBS31_205_11
SAMPLE-SBS31_205_12
SAMPLE-SBS31_205_13
SAMPLE-SBS31_205_14
SAMPLE-SBS31_205_15
SAMPLE-SBS31_205_16
SAMPLE-SBS31_205_17
SAMPLE-SBS31_205_18
SAMPLE-SBS31_205_19
SAMPLE-SBS31_205_2
SAMPLE-SBS31_205_20
SAMPLE-SBS31_205_21
SAMPLE-SBS31_205_22
SAMPLE-SBS31_205_23
SAMPLE-SBS31_205_24
SAMPLE-SBS31_205_25
SAMPLE-SBS31_205_26
SAMPLE-SBS31_205_27
SAMPLE-SBS31_205_28
SAMPLE-SBS31_205_29
SAMPLE-SBS31_205_3
SAMPLE-SBS31_205_30
SAMPLE-SBS31_205_31
SAMPLE-SBS31_205_32
SAMPLE-SBS31_205_33
SAMPLE-SBS31_205_34
SAMPLE-SBS31_205_35


Reconstruction error
1.00
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
234
232
230
228
226
224
222
SAMPLE-SBS31_205_36
SAMPLE-SBS31_205_37
SAMPLE-SBS31_205_38
SAMPLE-SBS31_205_39
SAMPLE-SBS31_205_4
SAMPLE-SBS31_205_40
SAMPLE-SBS31_205_41
SAMPLE-SBS31_205_42
SAMPLE-SBS31_205_43
SAMPLE-SBS31_205_44
SAMPLE-SBS31_205_45
SAMPLE-SBS31_205_46
SAMPLE-SBS31_205_47
SAMPLE-SBS31_205_48
SAMPLE-SBS31_205_49
SAMPLE-SBS31_205_5
SAMPLE-SBS31_205_50
SAMPLE-SBS31_205_51
SAMPLE-SBS31_205_52
SAMPLE-SBS31_205_53
SAMPLE-SBS31_205_54
SAMPLE-SBS31_205_55
SAMPLE-SBS31_205_56
SAMPLE-SBS31_205_57
SAMPLE-SBS31_205_58
SAMPLE-SBS31_205_59
SAMPLE-SBS31_205_6
SAMPLE-SBS31_205_60
SAMPLE-SBS31_205_61
SAMPLE-SBS31_205_62

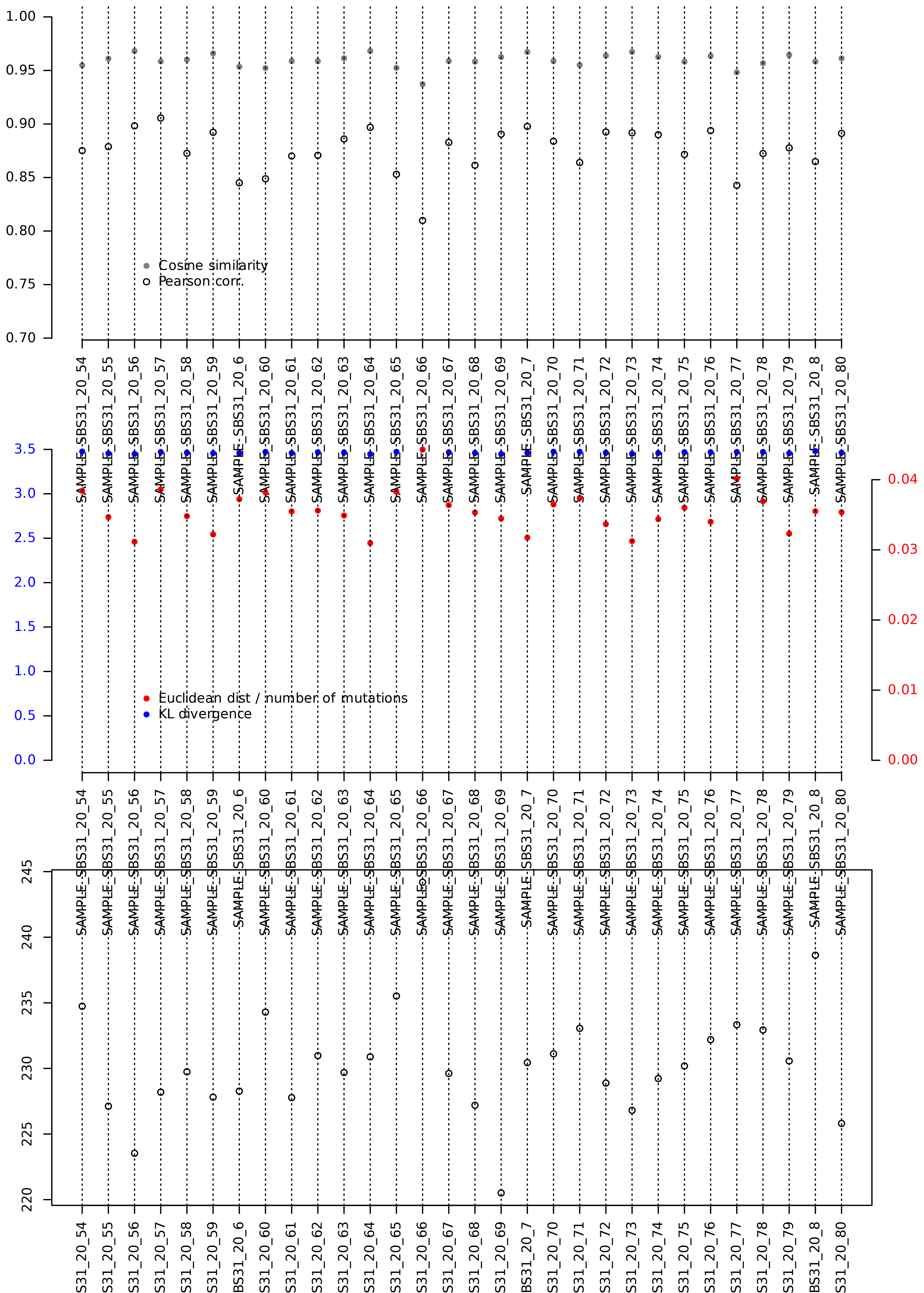

Reconstruction error
1.00
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
234
232
230
228
226
224
222
220
SAMPLE-SBS31_205_63
SAMPLE-SBS31_205_64
SAMPLE-SBS31_205_65
SAMPLE-SBS31_205_66
SAMPLE-SBS31_205_67
SAMPLE-SBS31_205_68
SAMPLE-SBS31_205_69
SAMPLE-SBS31_205_7
SAMPLE-SBS31_205_70
SAMPLE-SBS31_205_71
SAMPLE-SBS31_205_72
SAMPLE-SBS31_205_73
SAMPLE-SBS31_205_74
SAMPLE-SBS31_205_75
SAMPLE-SBS31_205_76
SAMPLE-SBS31_205_77
SAMPLE-SBS31_205_78
SAMPLE-SBS31_205_79
SAMPLE-SBS31_205_8
SAMPLE-SBS31_205_80
SAMPLE-SBS31_205_81
SAMPLE-SBS31_205_82
SAMPLE-SBS31_205_83
SAMPLE-SBS31_205_84
SAMPLE-SBS31_205_85
SAMPLE-SBS31_205_86
SAMPLE-SBS31_205_87
SAMPLE-SBS31_205_88
SAMPLE-SBS31_205_89
SAMPLE-SBS31_205_9

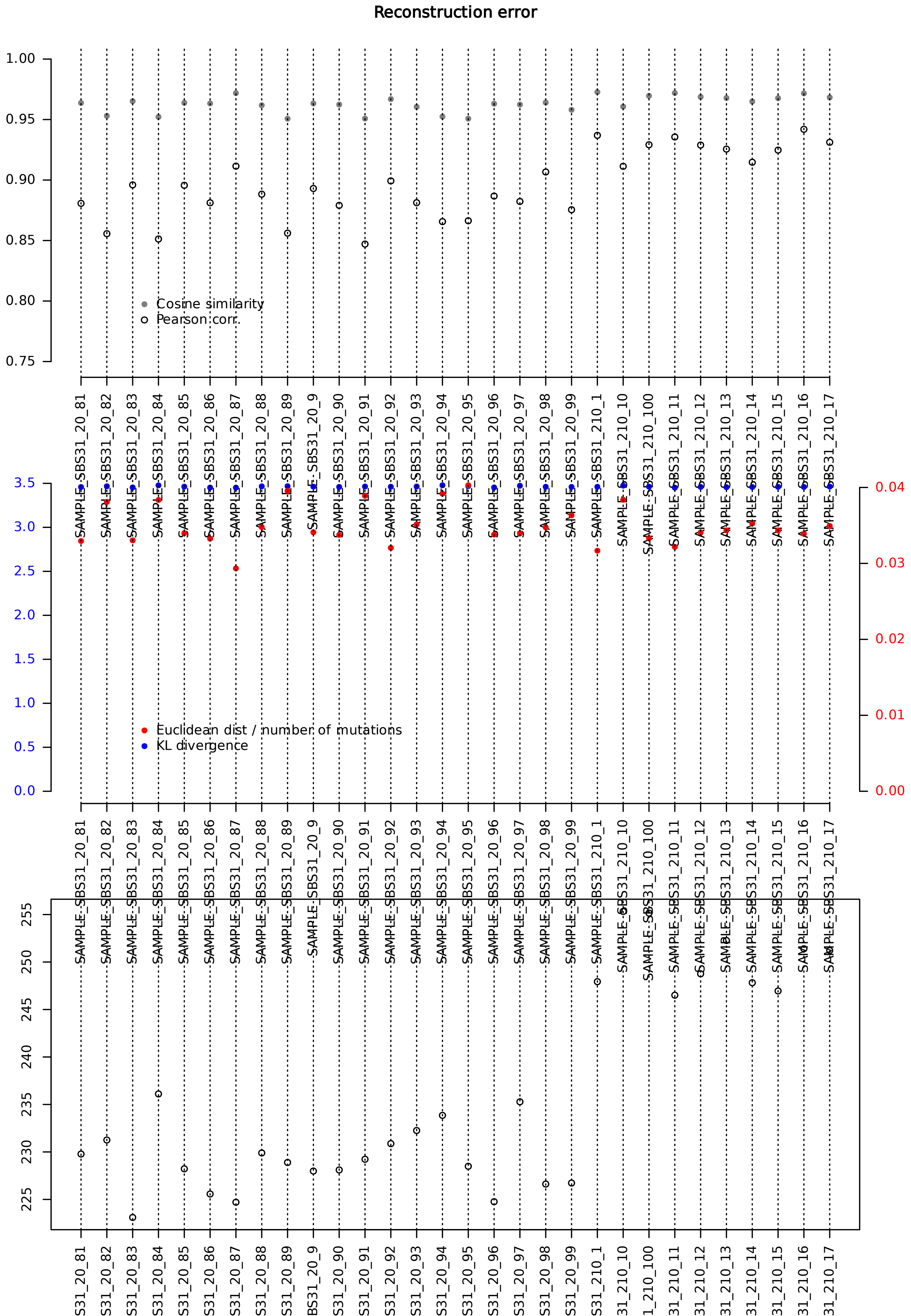
Reconstruction error

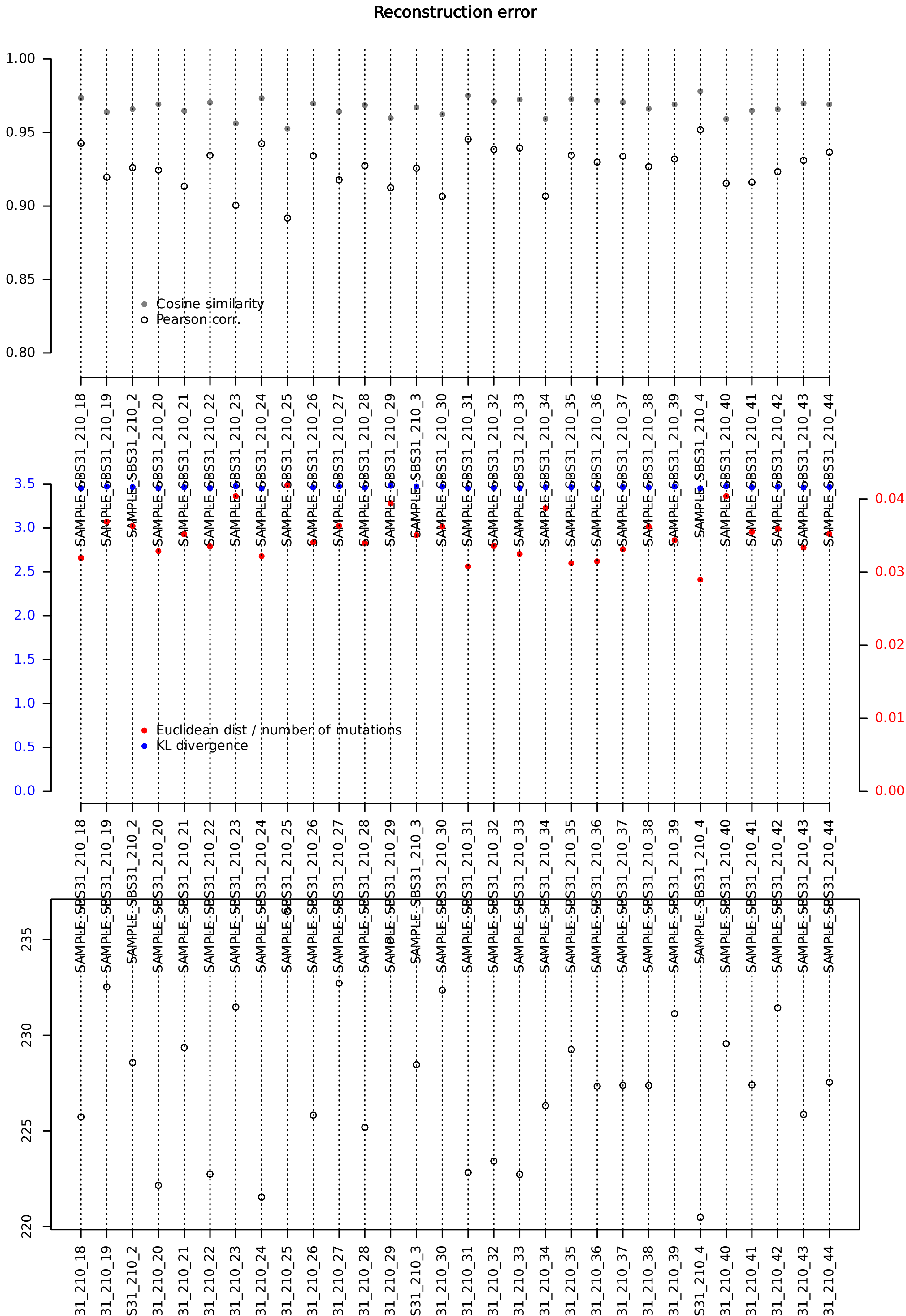


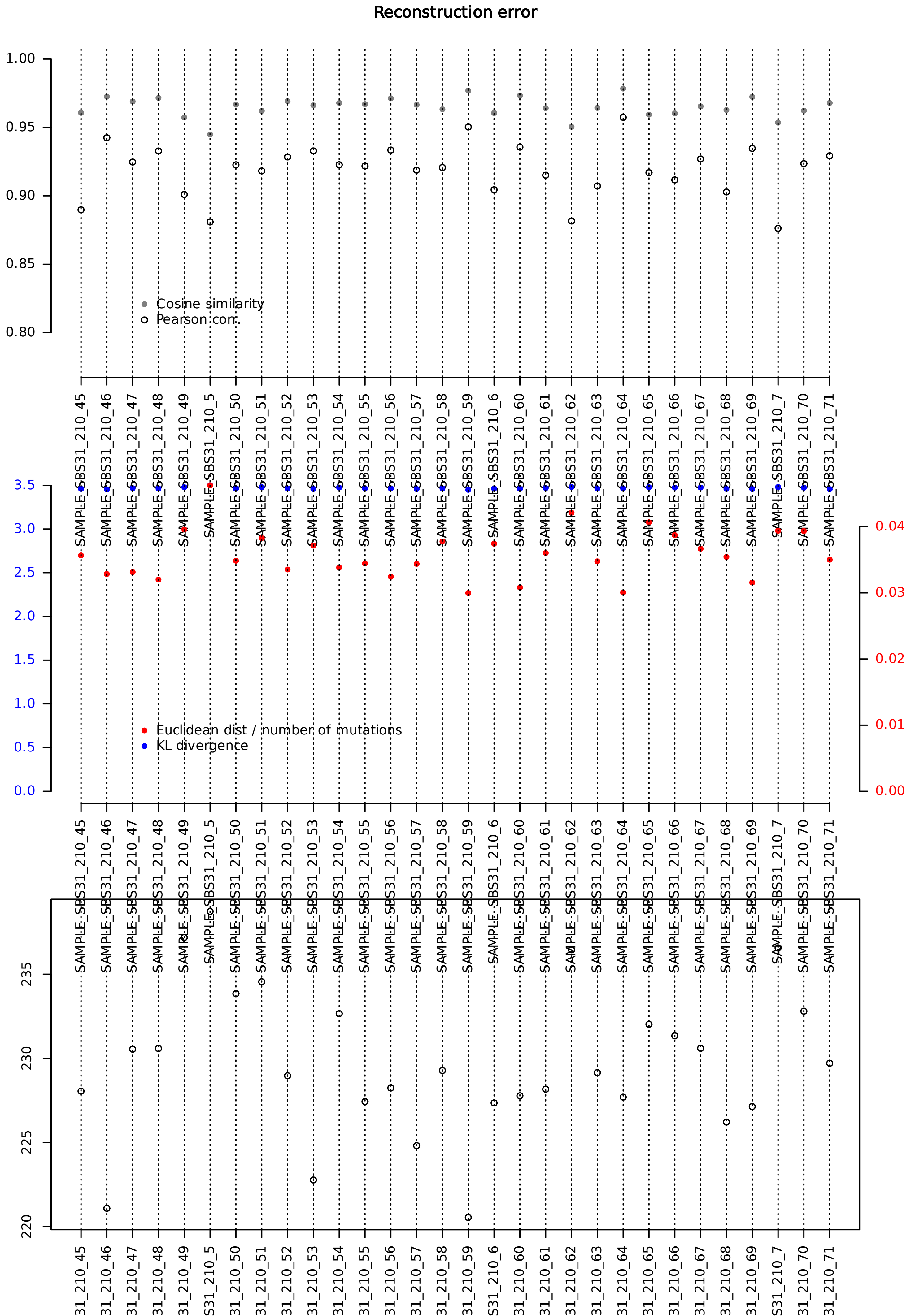

Reconstruction error
1.00
0.95
0.90
0.85
0.80
0.75
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
238
236
234
232
230
228
226
224
SAMPLE-SBS31_20_27
SAMPLE-SBS31_20_28
SAMPLE-SBS31_20_29
SAMPLE-SBS31_20_3
SAMPLE-SBS31_20_30
SAMPLE-SBS31_20_31
SAMPLE-SBS31_20_32
SAMPLE-SBS31_20_33
SAMPLE-SBS31_20_34
SAMPLE-SBS31_20_35
SAMPLE-SBS31_20_36
SAMPLE-SBS31_20_37
SAMPLE-SBS31_20_38
SAMPLE-SBS31_20_39
SAMPLE-SBS31_20_4
SAMPLE-SBS31_20_40
SAMPLE-SBS31_20_41
SAMPLE-SBS31_20_42
SAMPLE-SBS31_20_43
SAMPLE-SBS31_20_44
SAMPLE-SBS31_20_45
SAMPLE-SBS31_20_46
SAMPLE-SBS31_20_47
SAMPLE-SBS31_20_48
SAMPLE-SBS31_20_49
SAMPLE-SBS31_20_5
SAMPLE-SBS31_20_50
SAMPLE-SBS31_20_51
SAMPLE-SBS31_20_52
SAMPLE-SBS31_20_53

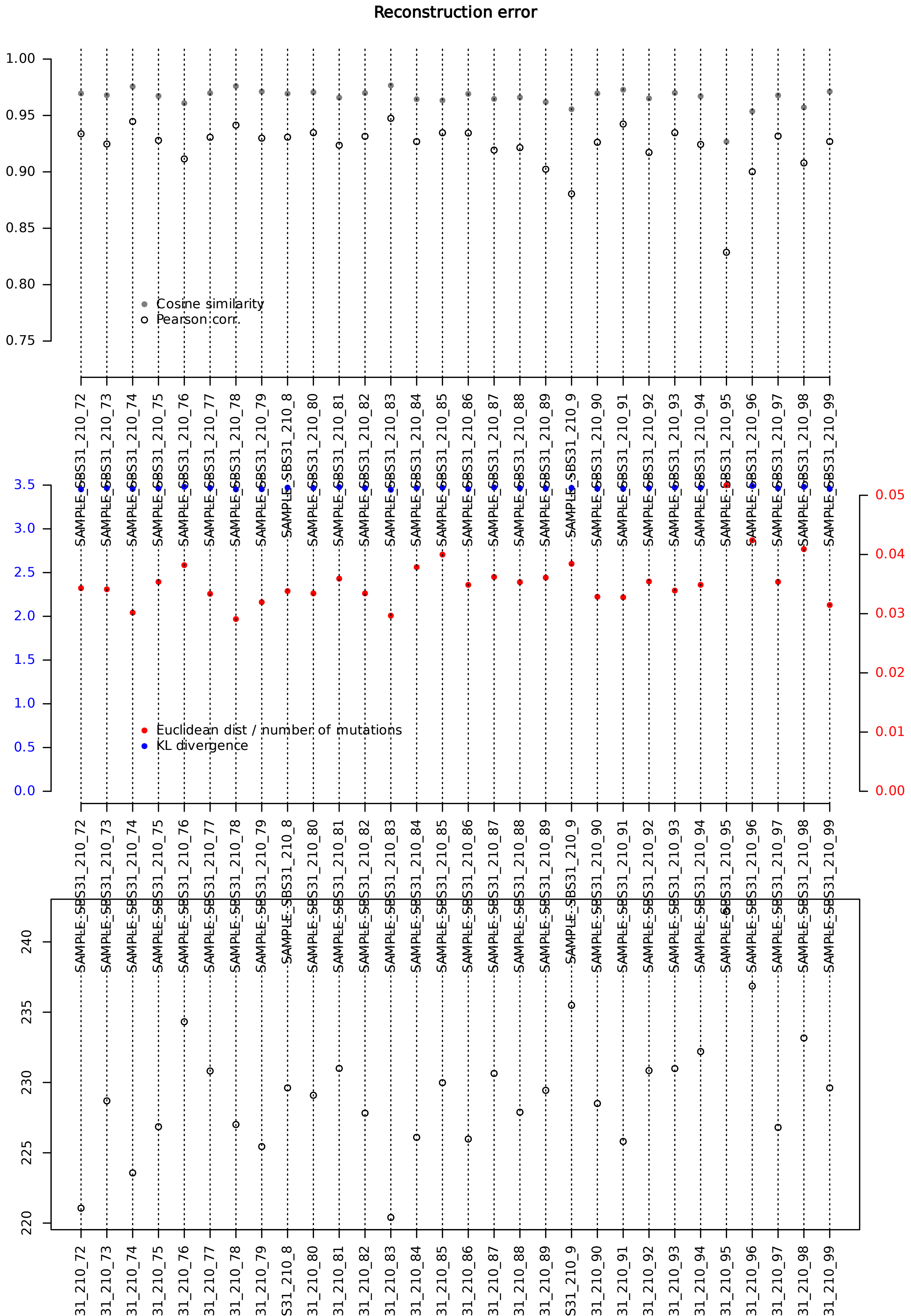
Reconstruction error




Reconstruction error
1.00
0.95
0.90
0.85
0.80
0.75
Cosine similarity
Pearson corr.
SAMPLE-SBS31_20_81
SAMPLE-SBS31_20_82
SAMPLE-SBS31_20_83
SAMPLE-SBS31_20_84
SAMPLE-SBS31_20_85
SAMPLE-SBS31_20_86
SAMPLE-SBS31_20_87
SAMPLE-SBS31_20_88
SAMPLE-SBS31_20_89
SAMPLE-SBS31_20_9
SAMPLE-SBS31_20_90
SAMPLE-SBS31_20_91
SAMPLE-SBS31_20_92
SAMPLE-SBS31_20_93
SAMPLE-SBS31_20_94
SAMPLE-SBS31_20_95
SAMPLE-SBS31_20_96
SAMPLE-SBS31_20_97
SAMPLE-SBS31_20_98
SAMPLE-SBS31_20_99
SAMPLE-SBS31_210_1
SAMPLE-SBS31_210_10
SAMPLE-SBS31_210_100
SAMPLE-SBS31_210_11
SAMPLE-SBS31_210_12
SAMPLE-SBS31_210_13
SAMPLE-SBS31_210_14
SAMPLE-SBS31_210_15
SAMPLE-SBS31_210_16
SAMPLE-SBS31_210_17
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
255
250
245
240
235
230
225


Reconstruction error
1.00
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
220
SAMPLE-SBS31_210_18
SAMPLE-SBS31_210_19
SAMPLE-SBS31_210_2
SAMPLE-SBS31_210_20
SAMPLE-SBS31_210_21
SAMPLE-SBS31_210_22
SAMPLE-SBS31_210_23
SAMPLE-SBS31_210_24
SAMPLE-SBS31_210_25
SAMPLE-SBS31_210_26
SAMPLE-SBS31_210_27
SAMPLE-SBS31_210_28
SAMPLE-SBS31_210_29
SAMPLE-SBS31_210_3
SAMPLE-SBS31_210_30
SAMPLE-SBS31_210_31
SAMPLE-SBS31_210_32
SAMPLE-SBS31_210_33
SAMPLE-SBS31_210_34
SAMPLE-SBS31_210_35
SAMPLE-SBS31_210_36
SAMPLE-SBS31_210_37
SAMPLE-SBS31_210_38
SAMPLE-SBS31_210_39
SAMPLE-SBS31_210_4
SAMPLE-SBS31_210_40
SAMPLE-SBS31_210_41
SAMPLE-SBS31_210_42
SAMPLE-SBS31_210_43
SAMPLE-SBS31_210_44


Reconstruction error
1.00
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
220
SAMPLE-SBS31_210_45
SAMPLE-SBS31_210_46
SAMPLE-SBS31_210_47
SAMPLE-SBS31_210_48
SAMPLE-SBS31_210_49
SAMPLE-SBS31_210_5
SAMPLE-SBS31_210_50
SAMPLE-SBS31_210_51
SAMPLE-SBS31_210_52
SAMPLE-SBS31_210_53
SAMPLE-SBS31_210_54
SAMPLE-SBS31_210_55
SAMPLE-SBS31_210_56
SAMPLE-SBS31_210_57
SAMPLE-SBS31_210_58
SAMPLE-SBS31_210_59
SAMPLE-SBS31_210_6
SAMPLE-SBS31_210_60
SAMPLE-SBS31_210_61
SAMPLE-SBS31_210_62
SAMPLE-SBS31_210_63
SAMPLE-SBS31_210_64
SAMPLE-SBS31_210_65
SAMPLE-SBS31_210_66
SAMPLE-SBS31_210_67
SAMPLE-SBS31_210_68
SAMPLE-SBS31_210_69
SAMPLE-SBS31_210_7
SAMPLE-SBS31_210_70
SAMPLE-SBS31_210_71


Reconstruction error
1.00
0.95
0.90
0.85
0.80
0.75
● Cosine similarity
○ Pearson corr.
SAMPLE-SBS31_210_72
SAMPLE-SBS31_210_73
SAMPLE-SBS31_210_74
SAMPLE-SBS31_210_75
SAMPLE-SBS31_210_76
SAMPLE-SBS31_210_77
SAMPLE-SBS31_210_78
SAMPLE-SBS31_210_79
SAMPLE-SBS31_210_8
SAMPLE-SBS31_210_80
SAMPLE-SBS31_210_81
SAMPLE-SBS31_210_82
SAMPLE-SBS31_210_83
SAMPLE-SBS31_210_84
SAMPLE-SBS31_210_85
SAMPLE-SBS31_210_86
SAMPLE-SBS31_210_87
SAMPLE-SBS31_210_88
SAMPLE-SBS31_210_89
SAMPLE-SBS31_210_9
SAMPLE-SBS31_210_90
SAMPLE-SBS31_210_91
SAMPLE-SBS31_210_92
SAMPLE-SBS31_210_93
SAMPLE-SBS31_210_94
SAMPLE-SBS31_210_95
SAMPLE-SBS31_210_96
SAMPLE-SBS31_210_97
SAMPLE-SBS31_210_98
SAMPLE-SBS31_210_99
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.05
0.04
0.03
0.02
0.01
0.00
● Euclidean dist / number of mutations
● KL divergence
SAMPLE-SBS31_210_72
SAMPLE-SBS31_210_73
SAMPLE-SBS31_210_74
SAMPLE-SBS31_210_75
SAMPLE-SBS31_210_76
SAMPLE-SBS31_210_77
SAMPLE-SBS31_210_78
SAMPLE-SBS31_210_79
SAMPLE-SBS31_210_8
SAMPLE-SBS31_210_80
SAMPLE-SBS31_210_81
SAMPLE-SBS31_210_82
SAMPLE-SBS31_210_83
SAMPLE-SBS31_210_84
SAMPLE-SBS31_210_85
SAMPLE-SBS31_210_86
SAMPLE-SBS31_210_87
SAMPLE-SBS31_210_88
SAMPLE-SBS31_210_89
SAMPLE-SBS31_210_9
SAMPLE-SBS31_210_90
SAMPLE-SBS31_210_91
SAMPLE-SBS31_210_92
SAMPLE-SBS31_210_93
SAMPLE-SBS31_210_94
SAMPLE-SBS31_210_95
SAMPLE-SBS31_210_96
SAMPLE-SBS31_210_97
SAMPLE-SBS31_210_98
SAMPLE-SBS31_210_99
240
235
230
225
220
31_210_72
31_210_73
31_210_74
31_210_75
31_210_76
31_210_77
31_210_78
31_210_79
S31_210_8
31_210_80
31_210_81
31_210_82
31_210_83
31_210_84
31_210_85
31_210_86
31_210_87
31_210_88
31_210_89
S31_210_9
31_210_90
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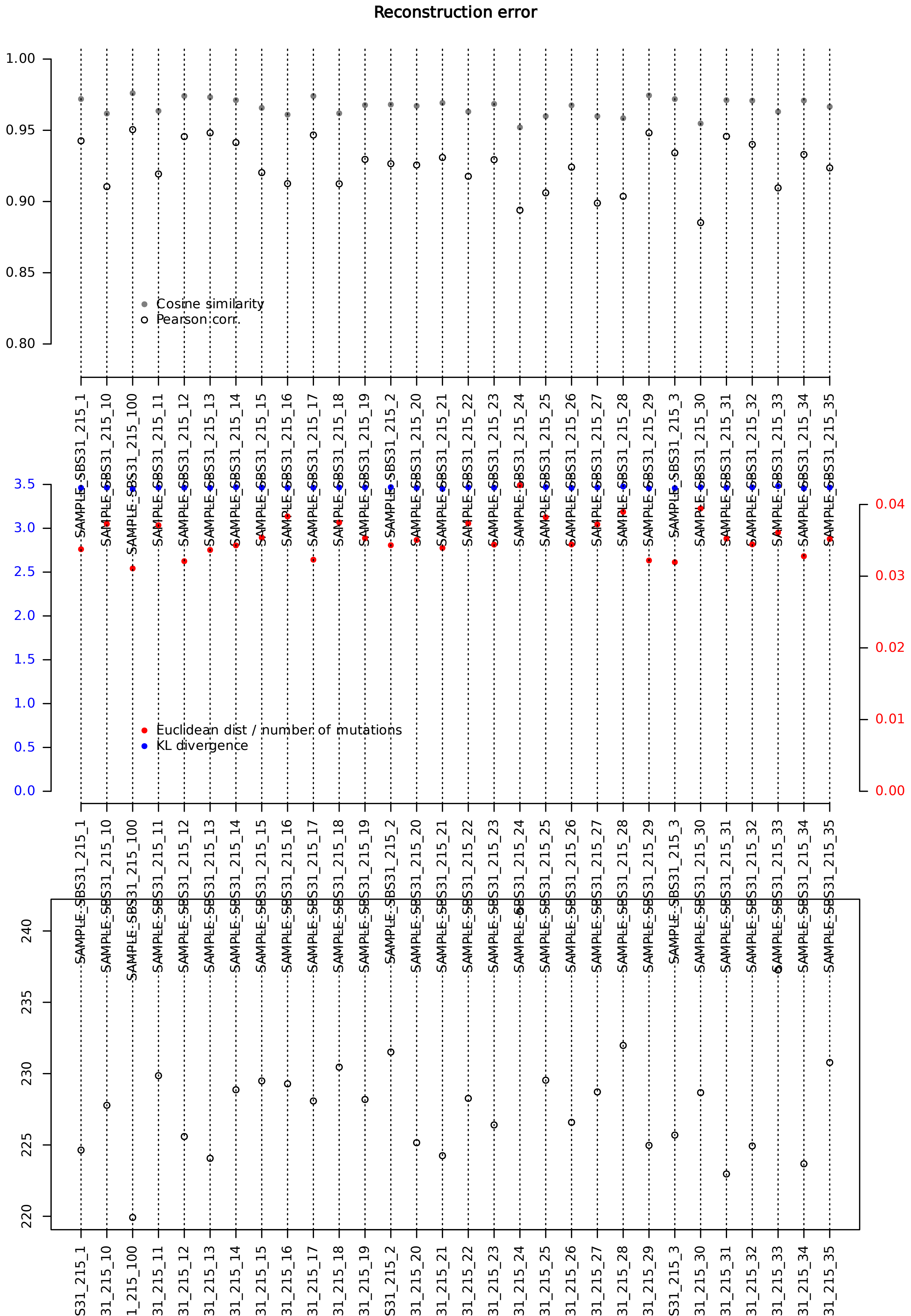
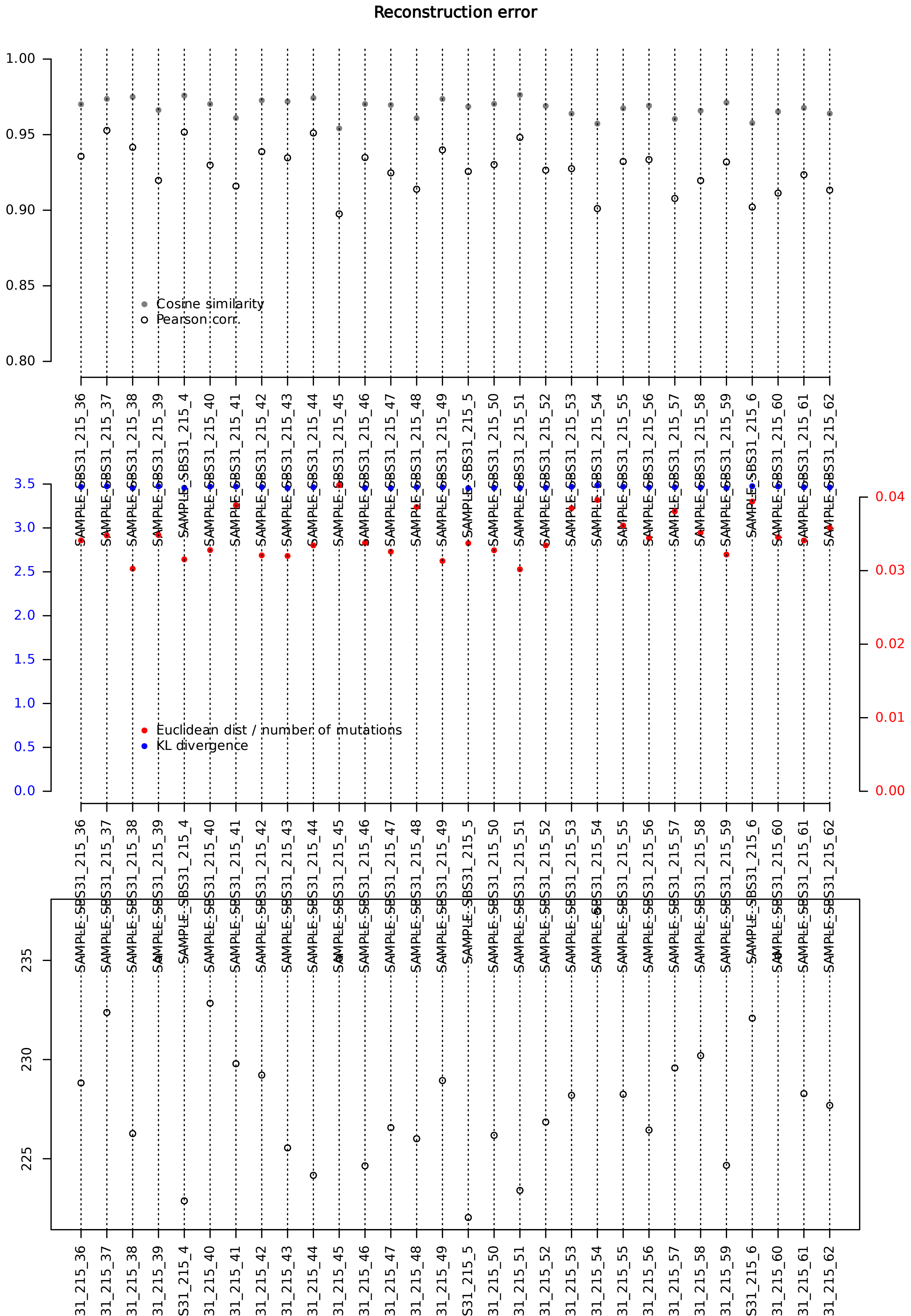
31_210_98
31_210_99


Reconstruction error
1.00
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
SAMPLE-SBS31_215_1
SAMPLE-SBS31_215_10
SAMPLE-SBS31_215_100
SAMPLE-SBS31_215_11
SAMPLE-SBS31_215_12
SAMPLE-SBS31_215_13
SAMPLE-SBS31_215_14
SAMPLE-SBS31_215_15
SAMPLE-SBS31_215_16
SAMPLE-SBS31_215_17
SAMPLE-SBS31_215_18
SAMPLE-SBS31_215_19
SAMPLE-SBS31_215_2
SAMPLE-SBS31_215_20
SAMPLE-SBS31_215_21
SAMPLE-SBS31_215_22
SAMPLE-SBS31_215_23
SAMPLE-SBS31_215_24
SAMPLE-SBS31_215_25
SAMPLE-SBS31_215_26
SAMPLE-SBS31_215_27
SAMPLE-SBS31_215_28
SAMPLE-SBS31_215_29
SAMPLE-SBS31_215_3
SAMPLE-SBS31_215_30
SAMPLE-SBS31_215_31
SAMPLE-SBS31_215_32
SAMPLE-SBS31_215_33
SAMPLE-SBS31_215_34
SAMPLE-SBS31_215_35
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
240
235
230
225
220


Reconstruction error
1.00
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
SAMPLE-SBS31_215_36
SAMPLE-SBS31_215_37
SAMPLE-SBS31_215_38
SAMPLE-SBS31_215_39
SAMPLE-SBS31_215_4
SAMPLE-SBS31_215_40
SAMPLE-SBS31_215_41
SAMPLE-SBS31_215_42
SAMPLE-SBS31_215_43
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SAMPLE-SBS31_215_45
SAMPLE-SBS31_215_46
SAMPLE-SBS31_215_47
SAMPLE-SBS31_215_48
SAMPLE-SBS31_215_49
SAMPLE-SBS31_215_5
SAMPLE-SBS31_215_50
SAMPLE-SBS31_215_51
SAMPLE-SBS31_215_52
SAMPLE-SBS31_215_53
SAMPLE-SBS31_215_54
SAMPLE-SBS31_215_55
SAMPLE-SBS31_215_56
SAMPLE-SBS31_215_57
SAMPLE-SBS31_215_58
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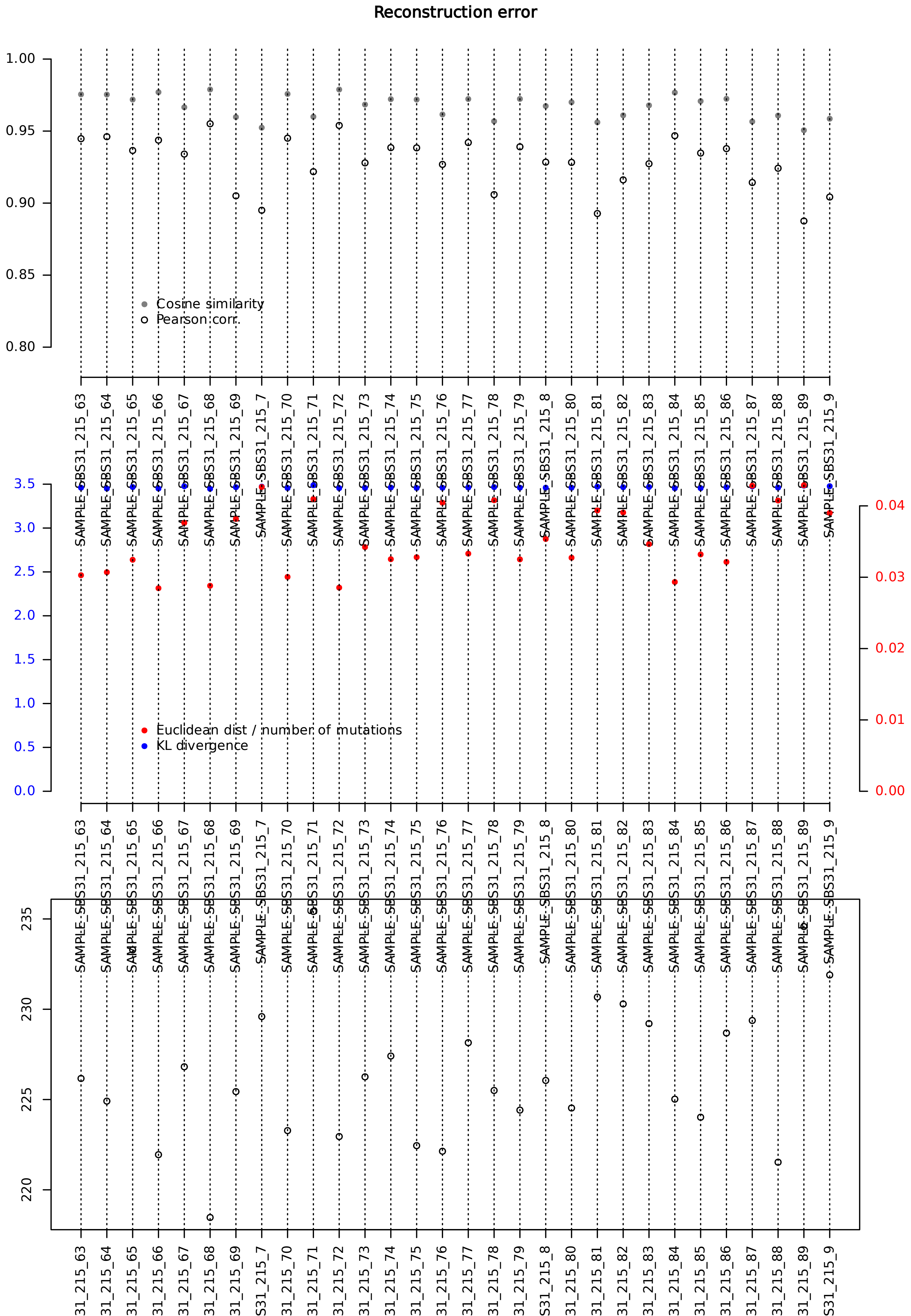
SAMPLE-SBS31_215_60
SAMPLE-SBS31_215_61
SAMPLE-SBS31_215_62


Reconstruction error
1.00
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
220
SAMPLE-SBS31_215_63
SAMPLE-SBS31_215_64
SAMPLE-SBS31_215_65
SAMPLE-SBS31_215_66
SAMPLE-SBS31_215_67
SAMPLE-SBS31_215_68
SAMPLE-SBS31_215_69
SAMPLE-SBS31_215_7
SAMPLE-SBS31_215_70
SAMPLE-SBS31_215_71
SAMPLE-SBS31_215_72
SAMPLE-SBS31_215_73
SAMPLE-SBS31_215_74
SAMPLE-SBS31_215_75
SAMPLE-SBS31_215_76
SAMPLE-SBS31_215_77
SAMPLE-SBS31_215_78
SAMPLE-SBS31_215_79
SAMPLE-SBS31_215_8
SAMPLE-SBS31_215_80
SAMPLE-SBS31_215_81
SAMPLE-SBS31_215_82
SAMPLE-SBS31_215_83
SAMPLE-SBS31_215_84
SAMPLE-SBS31_215_85
SAMPLE-SBS31_215_86
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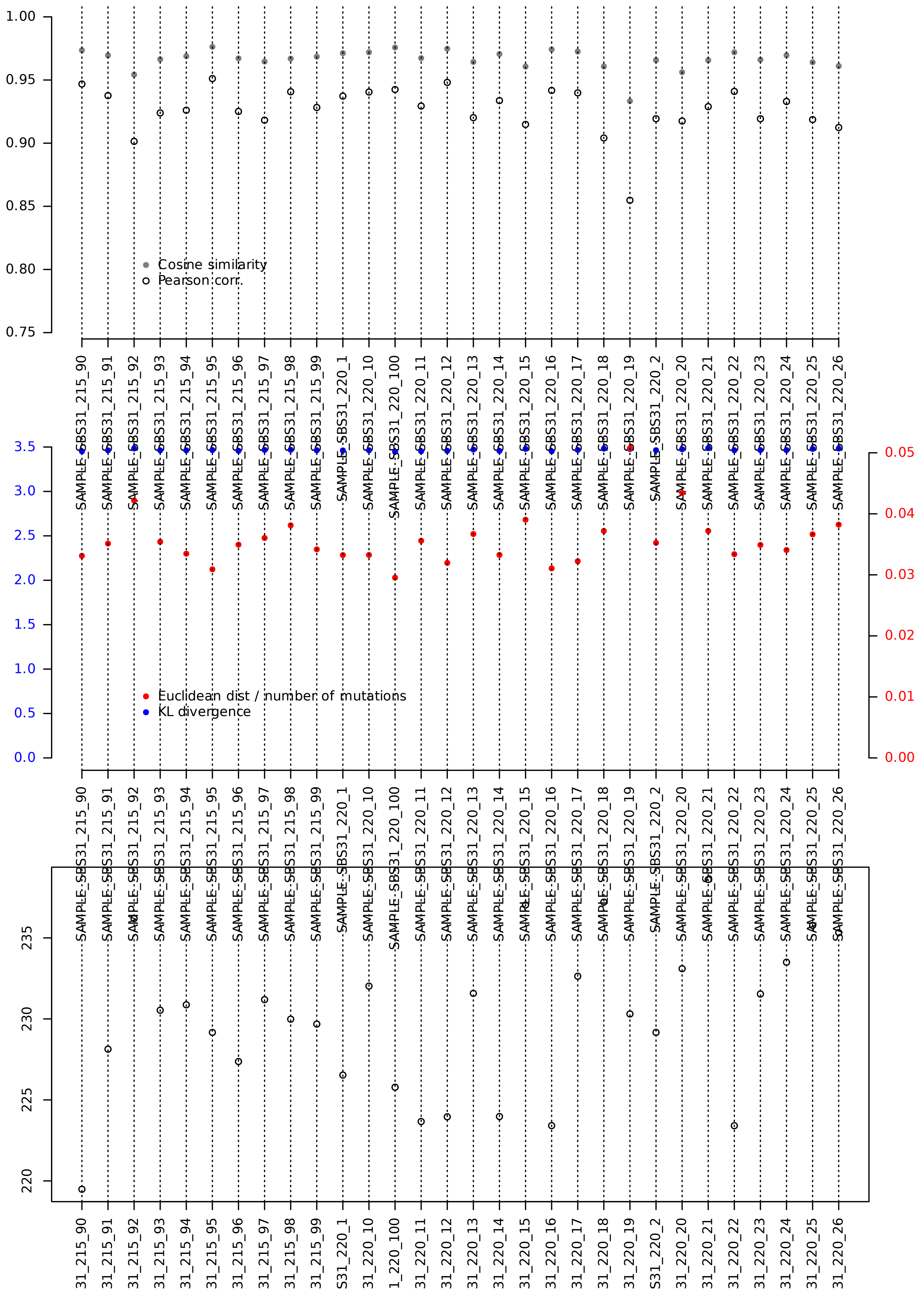
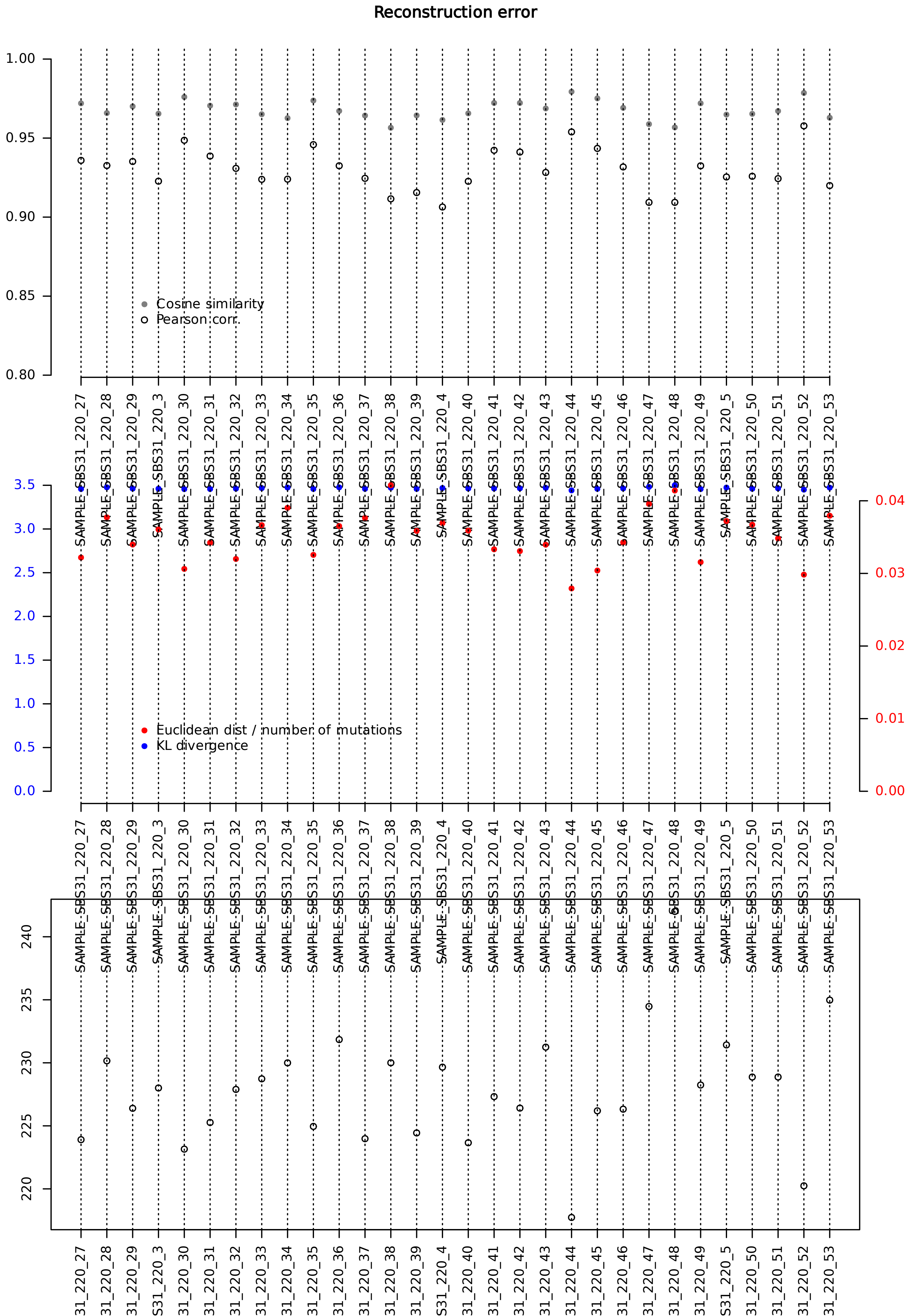
SAMPLE-SBS31_215_88
SAMPLE-SBS31_215_89
SAMPLE-SBS31_215_9

Reconstruction error

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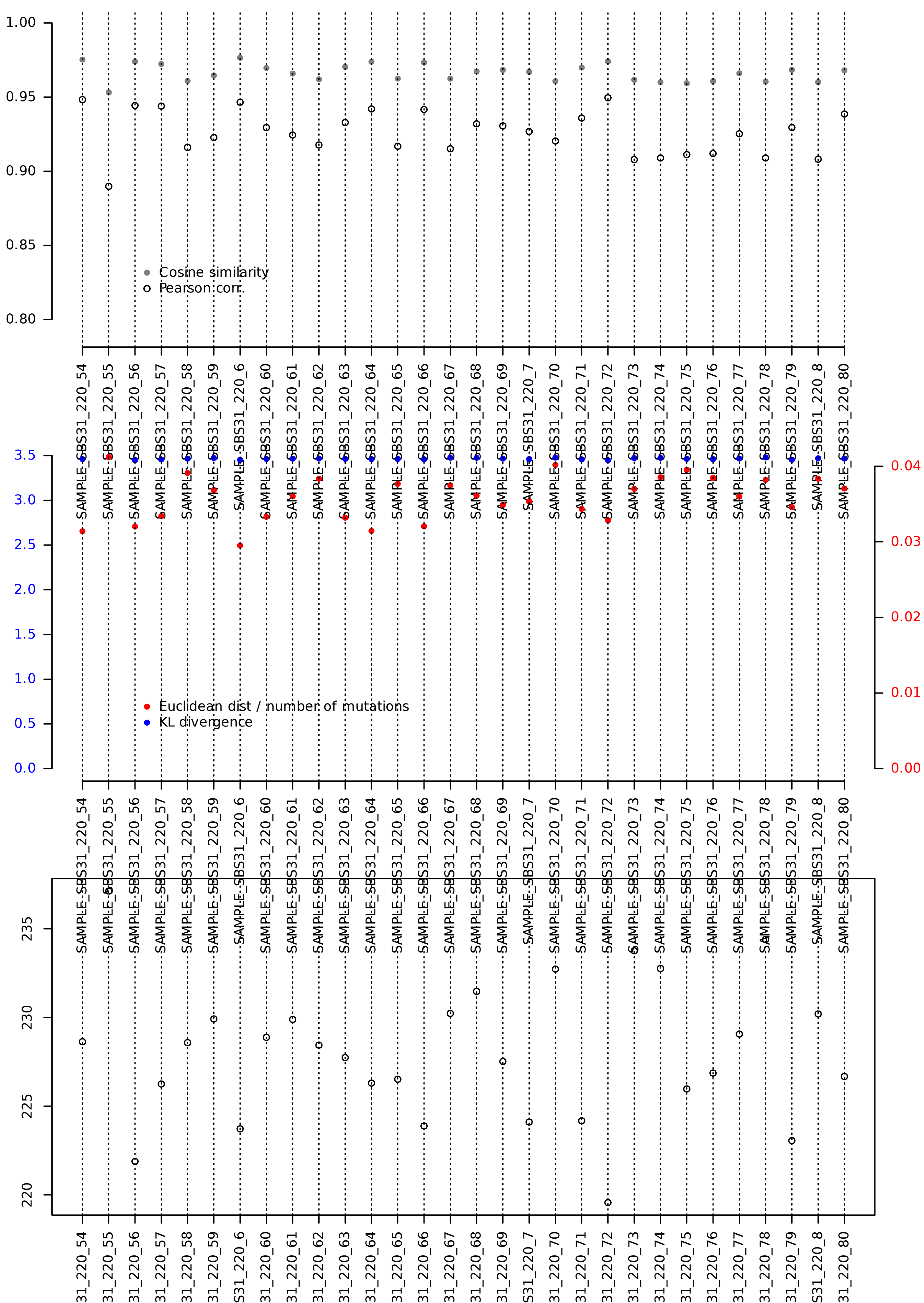
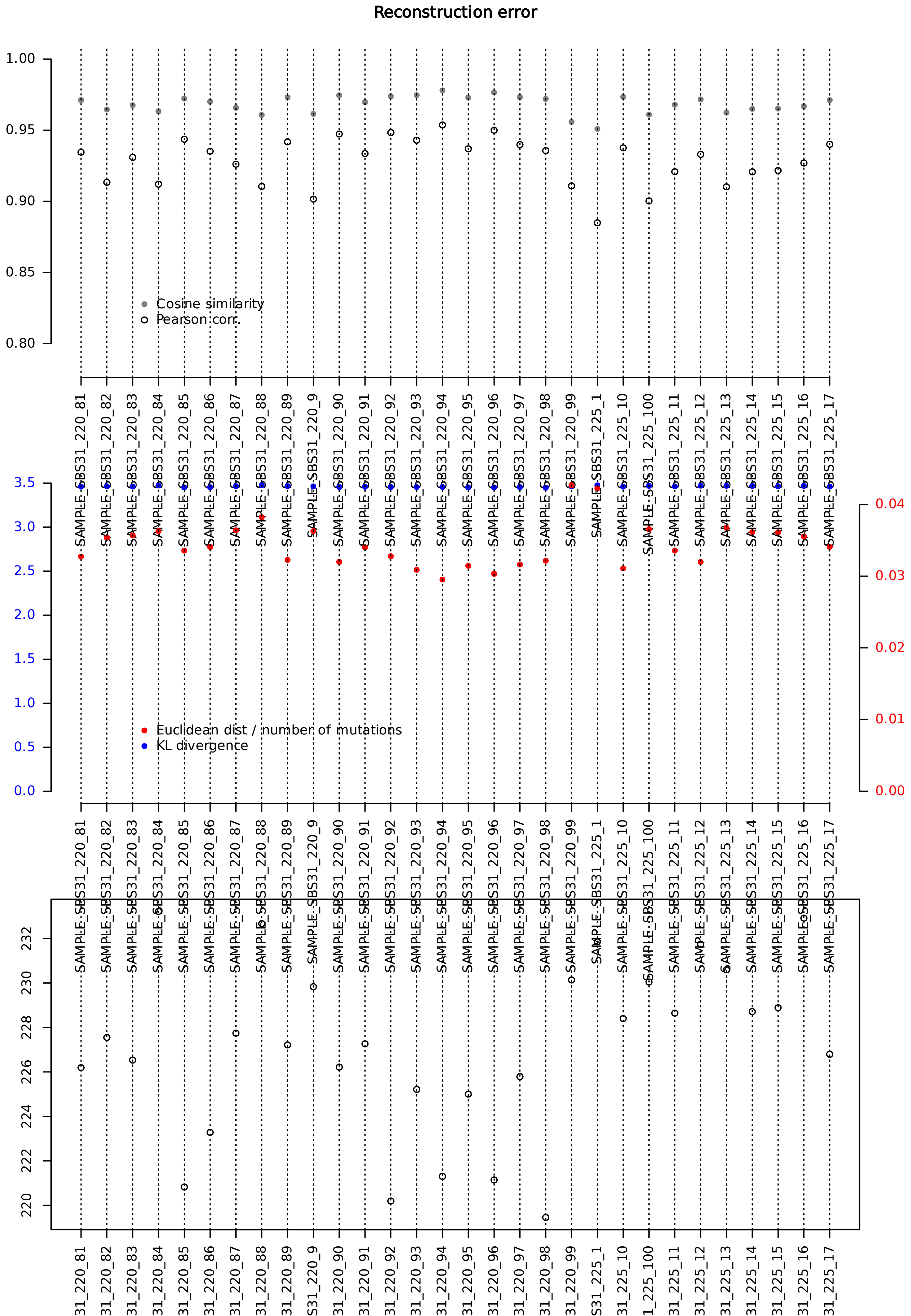
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
240
235
230
225
220
SAMPLE-SBS31_220_27
SAMPLE-SBS31_220_28
SAMPLE-SBS31_220_29
SAMPLE-SBS31_220_3
SAMPLE-SBS31_220_30
SAMPLE-SBS31_220_31
SAMPLE-SBS31_220_32
SAMPLE-SBS31_220_33
SAMPLE-SBS31_220_34
SAMPLE-SBS31_220_35
SAMPLE-SBS31_220_36
SAMPLE-SBS31_220_37
SAMPLE-SBS31_220_38
SAMPLE-SBS31_220_39
SAMPLE-SBS31_220_4
SAMPLE-SBS31_220_40
SAMPLE-SBS31_220_41
SAMPLE-SBS31_220_42
SAMPLE-SBS31_220_43
SAMPLE-SBS31_220_44
SAMPLE-SBS31_220_45
SAMPLE-SBS31_220_46
SAMPLE-SBS31_220_47
SAMPLE-SBS31_220_48
SAMPLE-SBS31_220_49
SAMPLE-SBS31_220_5
SAMPLE-SBS31_220_50
SAMPLE-SBS31_220_51
SAMPLE-SBS31_220_52
SAMPLE-SBS31_220_53

Reconstruction error

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0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
SAMPLE-SBS31_220_81
SAMPLE-SBS31_220_82
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SAMPLE-SBS31_220_84
SAMPLE-SBS31_220_85
SAMPLE-SBS31_220_86
SAMPLE-SBS31_220_87
SAMPLE-SBS31_220_88
SAMPLE-SBS31_220_89
SAMPLE-SBS31_220_9
SAMPLE-SBS31_220_90
SAMPLE-SBS31_220_91
SAMPLE-SBS31_220_92
SAMPLE-SBS31_220_93
SAMPLE-SBS31_220_94
SAMPLE-SBS31_220_95
SAMPLE-SBS31_220_96
SAMPLE-SBS31_220_97
SAMPLE-SBS31_220_98
SAMPLE-SBS31_220_99
SAMPLE-SBS31_225_1
SAMPLE-SBS31_225_10
SAMPLE-SBS31_225_100
SAMPLE-SBS31_225_11
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SAMPLE-SBS31_225_13
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SAMPLE-SBS31_225_15
SAMPLE-SBS31_225_16
SAMPLE-SBS31_225_17
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
232
230
228
226
224
222
220
31_220_81
31_220_82
31_220_83
31_220_84
31_220_85
31_220_86
31_220_87
31_220_88
31_220_89
S31_220_9
31_220_90
31_220_91
31_220_92
31_220_93
31_220_94
31_220_95
31_220_96
31_220_97
31_220_98
31_220_99
S31_225_1
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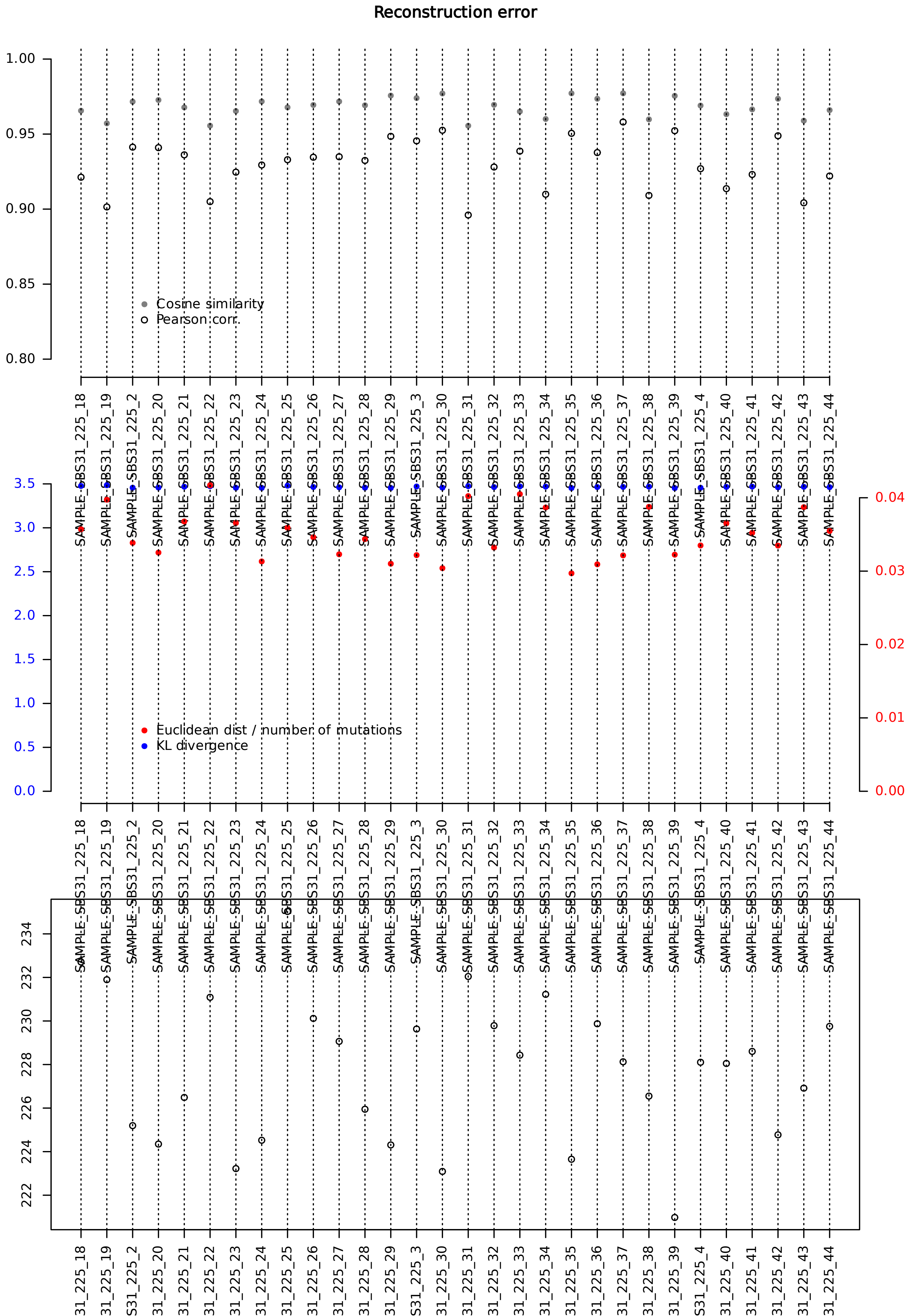
31_225_17


Reconstruction error
1.00
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
234
232
230
228
226
224
222
SAMPLE-SBS31_225_18
SAMPLE-SBS31_225_19
SAMPLE-SBS31_225_2
SAMPLE-SBS31_225_20
SAMPLE-SBS31_225_21
SAMPLE-SBS31_225_22
SAMPLE-SBS31_225_23
SAMPLE-SBS31_225_24
SAMPLE-SBS31_225_25
SAMPLE-SBS31_225_26
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SAMPLE-SBS31_225_32
SAMPLE-SBS31_225_33
SAMPLE-SBS31_225_34
SAMPLE-SBS31_225_35
SAMPLE-SBS31_225_36
SAMPLE-SBS31_225_37
SAMPLE-SBS31_225_38
SAMPLE-SBS31_225_39
SAMPLE-SBS31_225_4
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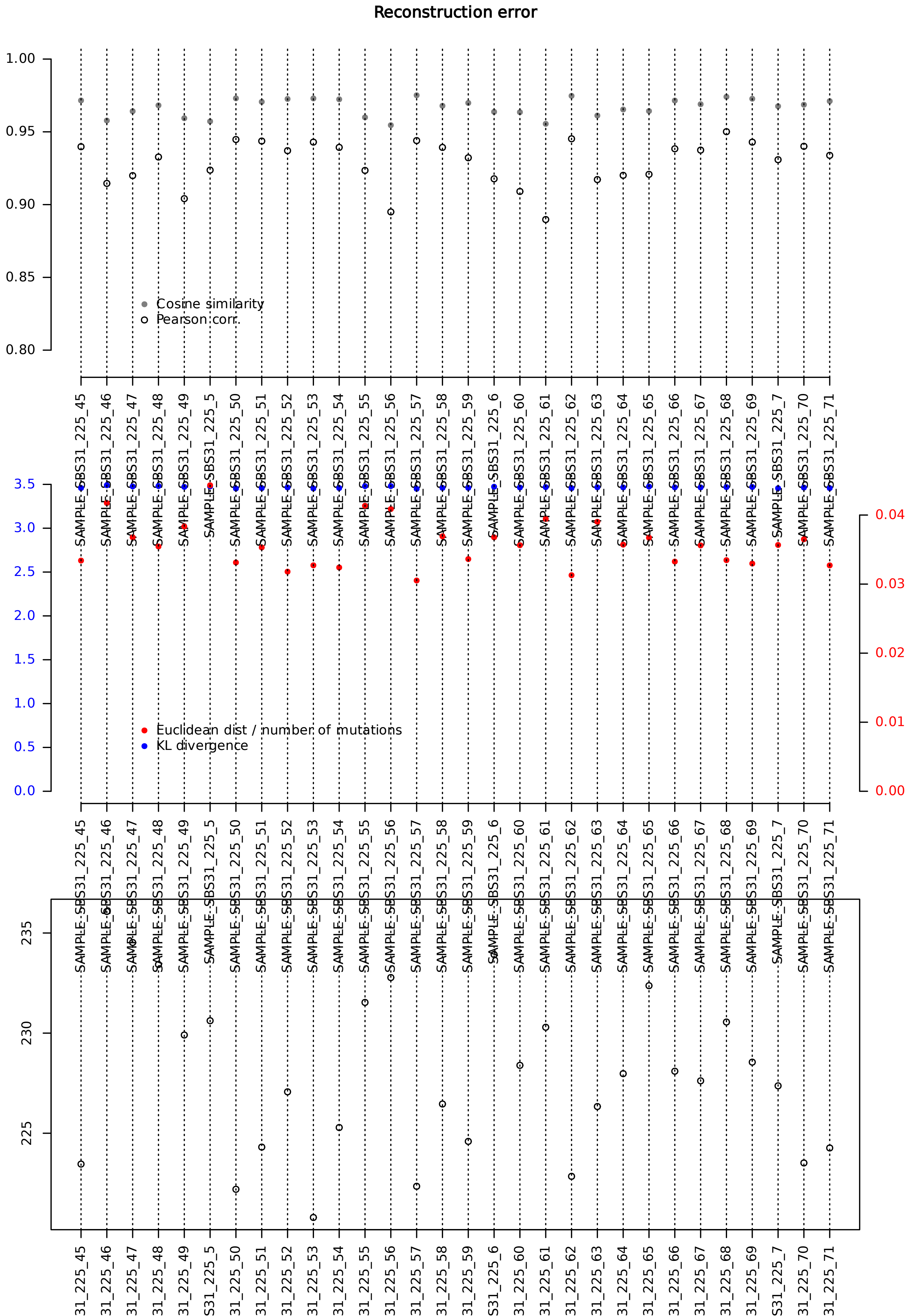
SAMPLE-SBS31_225_42
SAMPLE-SBS31_225_43
SAMPLE-SBS31_225_44


Reconstruction error
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0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
SAMPLE-SBS31_225_45
SAMPLE-SBS31_225_46
SAMPLE-SBS31_225_47
SAMPLE-SBS31_225_48
SAMPLE-SBS31_225_49
SAMPLE-SBS31_225_5
SAMPLE-SBS31_225_50
SAMPLE-SBS31_225_51
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SAMPLE-SBS31_225_58
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SAMPLE-SBS31_225_6
SAMPLE-SBS31_225_60
SAMPLE-SBS31_225_61
SAMPLE-SBS31_225_62
SAMPLE-SBS31_225_63
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SAMPLE-SBS31_225_65
SAMPLE-SBS31_225_66
SAMPLE-SBS31_225_67
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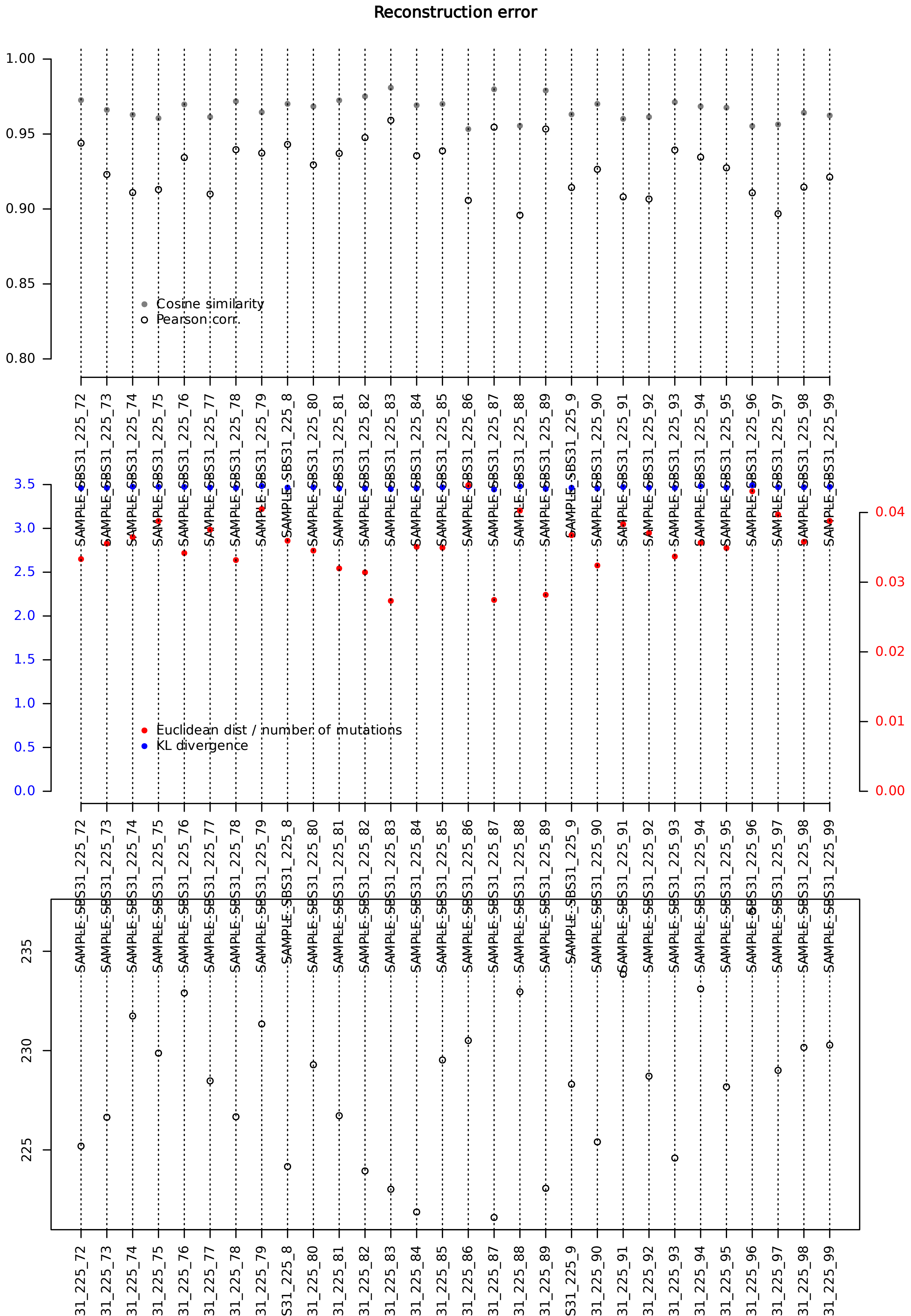
SAMPLE-SBS31_225_70
SAMPLE-SBS31_225_71


Reconstruction error
1.00
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
SAMPLE-SBS31_225_72
SAMPLE-SBS31_225_73
SAMPLE-SBS31_225_74
SAMPLE-SBS31_225_75
SAMPLE-SBS31_225_76
SAMPLE-SBS31_225_77
SAMPLE-SBS31_225_78
SAMPLE-SBS31_225_79
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SAMPLE-SBS31_225_81
SAMPLE-SBS31_225_82
SAMPLE-SBS31_225_83
SAMPLE-SBS31_225_84
SAMPLE-SBS31_225_85
SAMPLE-SBS31_225_86
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SAMPLE-SBS31_225_88
SAMPLE-SBS31_225_89
SAMPLE-SBS31_225_9
SAMPLE-SBS31_225_90
SAMPLE-SBS31_225_91
SAMPLE-SBS31_225_92
SAMPLE-SBS31_225_93
SAMPLE-SBS31_225_94
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SAMPLE-SBS31_225_98
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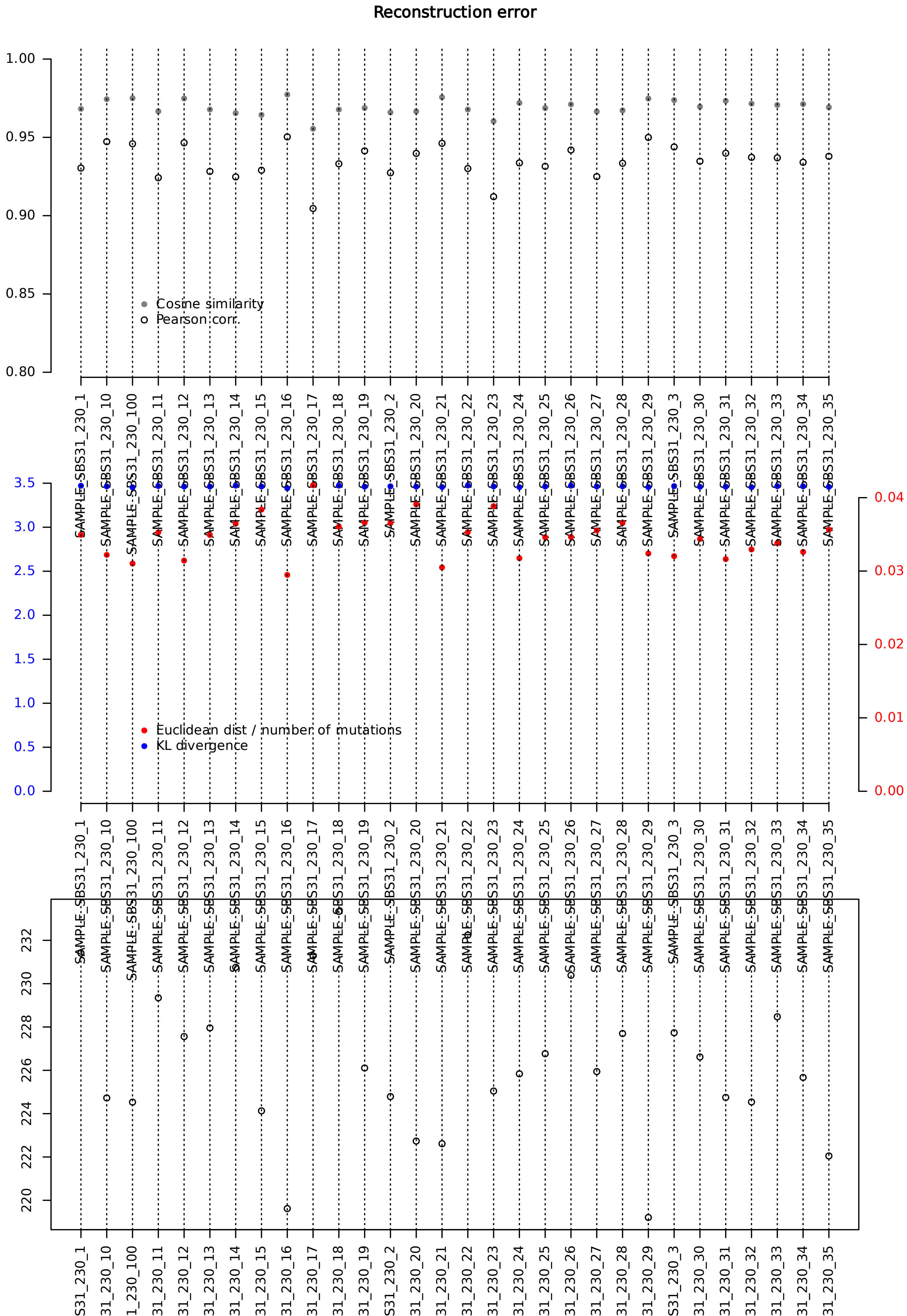
Reconstruction error
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0.90
0.85
0.80
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
232
230
228
226
224
222
220
SAMPLE-SBS31_230_1
SAMPLE-SBS31_230_10
SAMPLE-SBS31_230_100
SAMPLE-SBS31_230_11
SAMPLE-SBS31_230_12
SAMPLE-SBS31_230_13
SAMPLE-SBS31_230_14
SAMPLE-SBS31_230_15
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SAMPLE-SBS31_230_17
SAMPLE-SBS31_230_18
SAMPLE-SBS31_230_19
SAMPLE-SBS31_230_2
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SAMPLE-SBS31_230_21
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SAMPLE-SBS31_230_23
SAMPLE-SBS31_230_24
SAMPLE-SBS31_230_25
SAMPLE-SBS31_230_26
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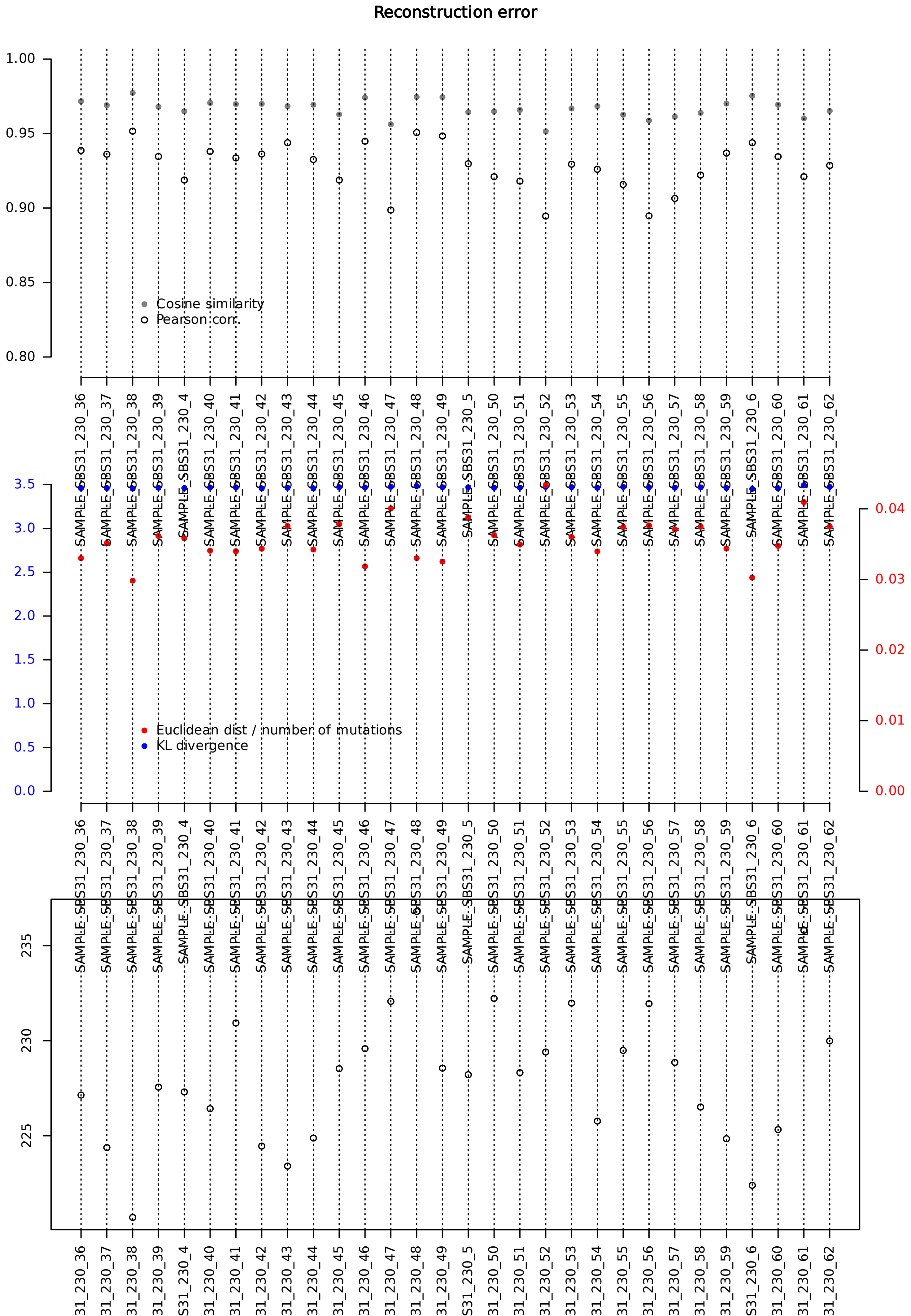
SAMPLE-SBS31_230_34
SAMPLE-SBS31_230_35


Reconstruction error
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0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
SAMPLE-SBS31_230_36
SAMPLE-SBS31_230_37
SAMPLE-SBS31_230_38
SAMPLE-SBS31_230_39
SAMPLE-SBS31_230_4
SAMPLE-SBS31_230_40
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SAMPLE-SBS31_230_58
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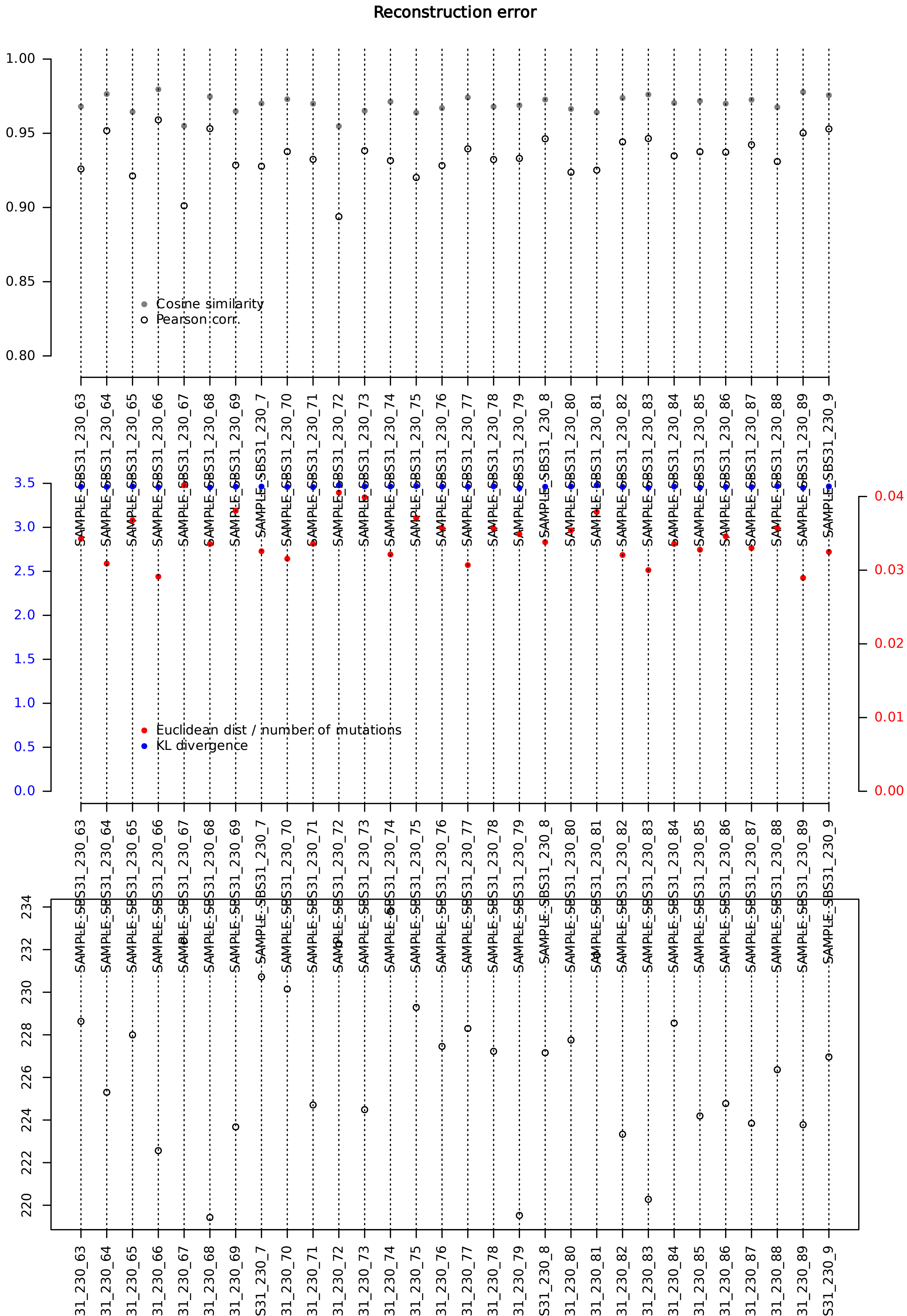
Reconstruction error
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0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
234
232
230
228
226
224
222
220
SAMPLE-SBS31_230_63
SAMPLE-SBS31_230_64
SAMPLE-SBS31_230_65
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SAMPLE-SBS31_230_72
SAMPLE-SBS31_230_73
SAMPLE-SBS31_230_74
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SAMPLE-SBS31_230_76
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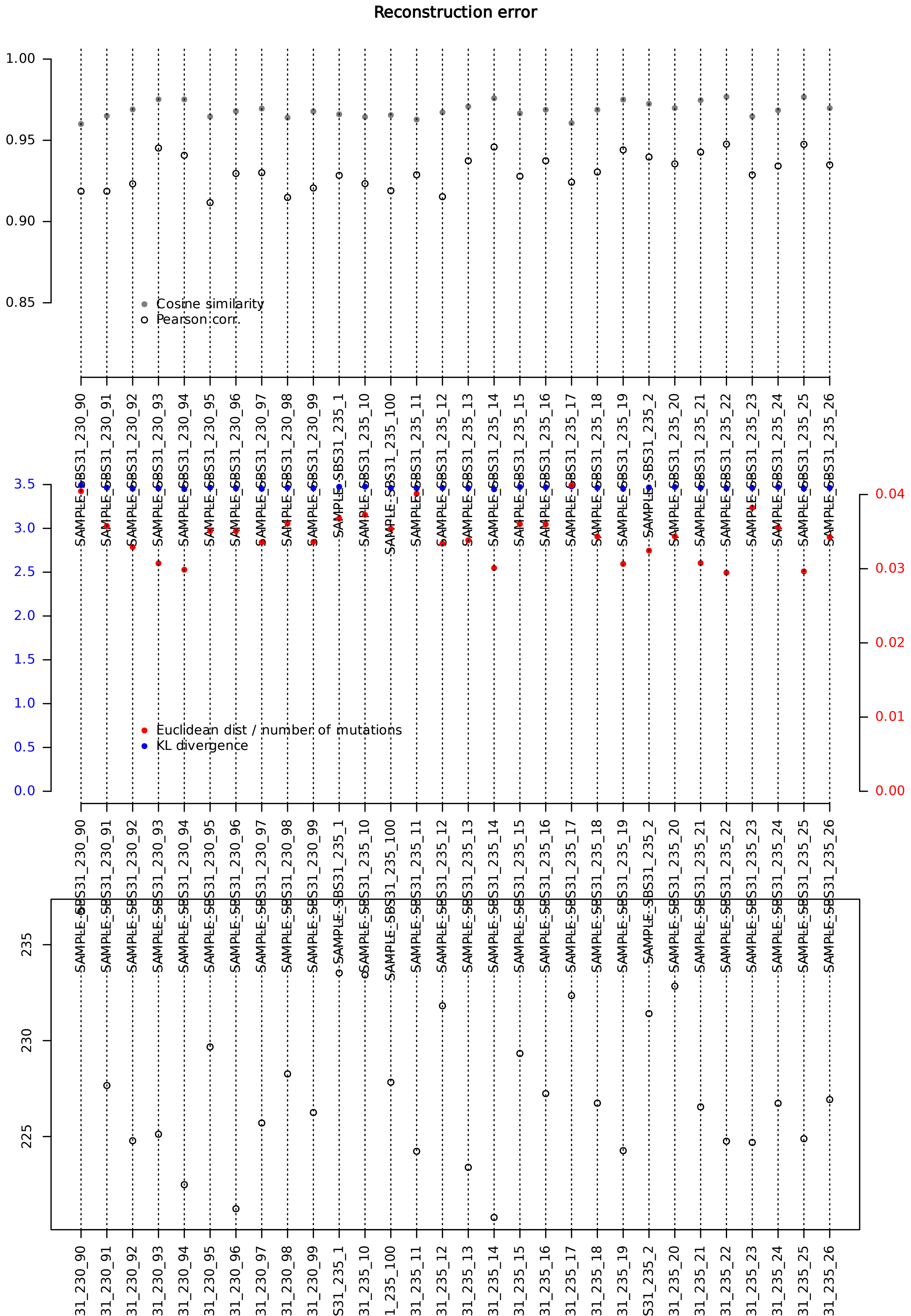
SAMPLE-SBS31_230_89
SAMPLE-SBS31_230_9


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
SAMPLE-SBS31_230_90
SAMPLE-SBS31_230_91
SAMPLE-SBS31_230_92
SAMPLE-SBS31_230_93
SAMPLE-SBS31_230_94
SAMPLE-SBS31_230_95
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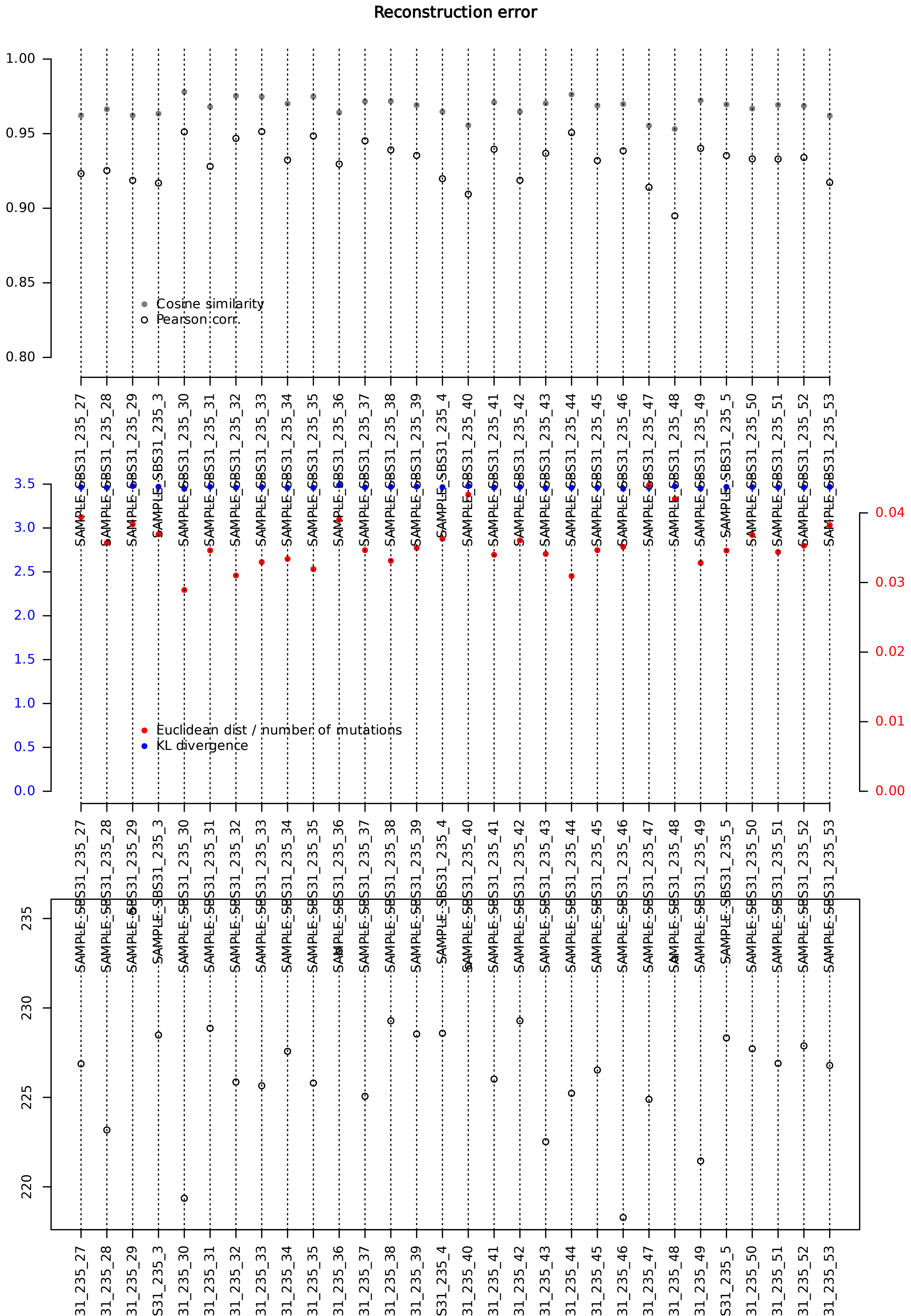
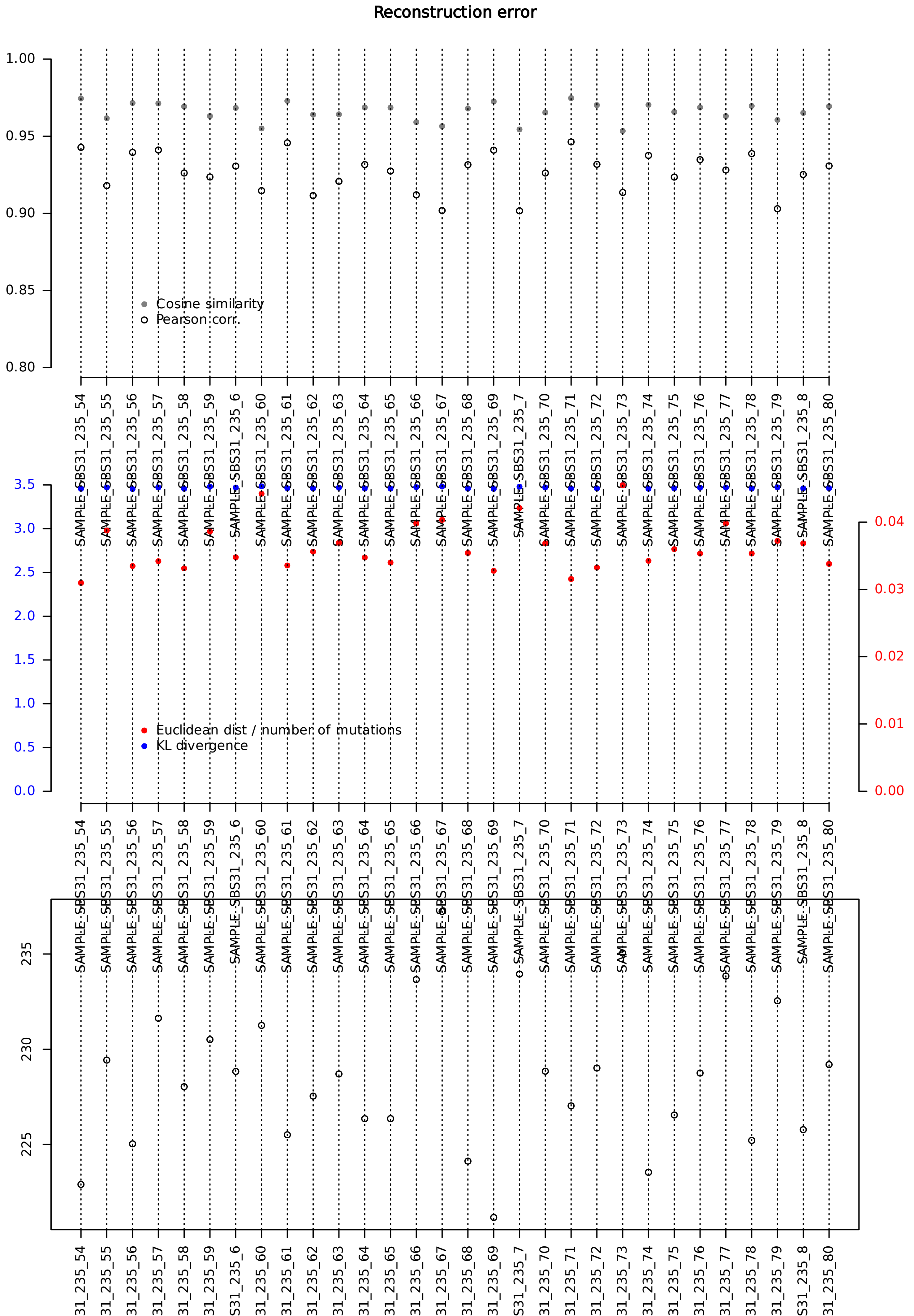
SAMPLE-SBS31_235_25
SAMPLE-SBS31_235_26



Reconstruction error


Reconstruction error
1.00
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
SAMPLE-SBS31_235_54
SAMPLE-SBS31_235_55
SAMPLE-SBS31_235_56
SAMPLE-SBS31_235_57
SAMPLE-SBS31_235_58
SAMPLE-SBS31_235_59
SAMPLE-SBS31_235_6
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SAMPLE-SBS31_235_63
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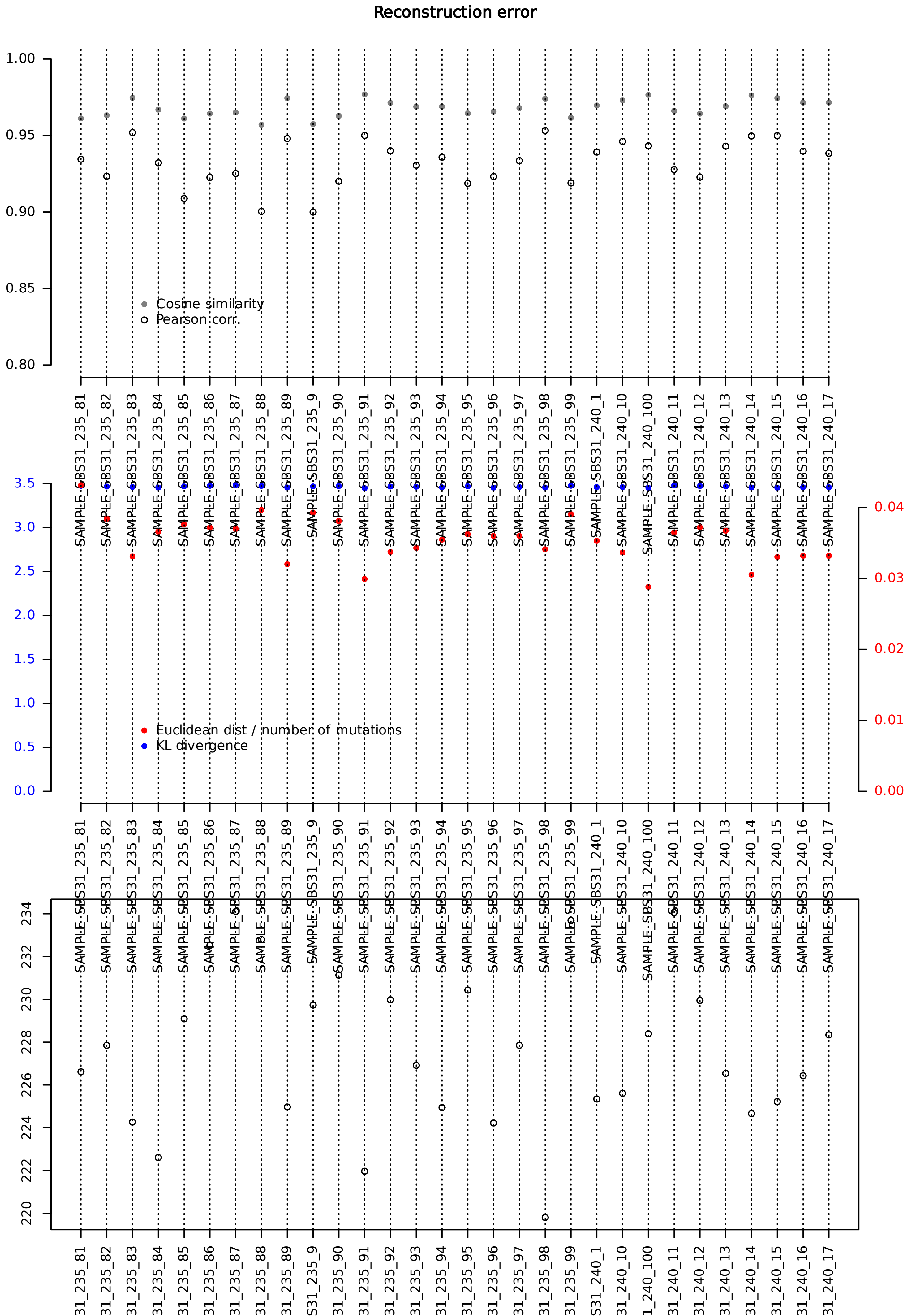
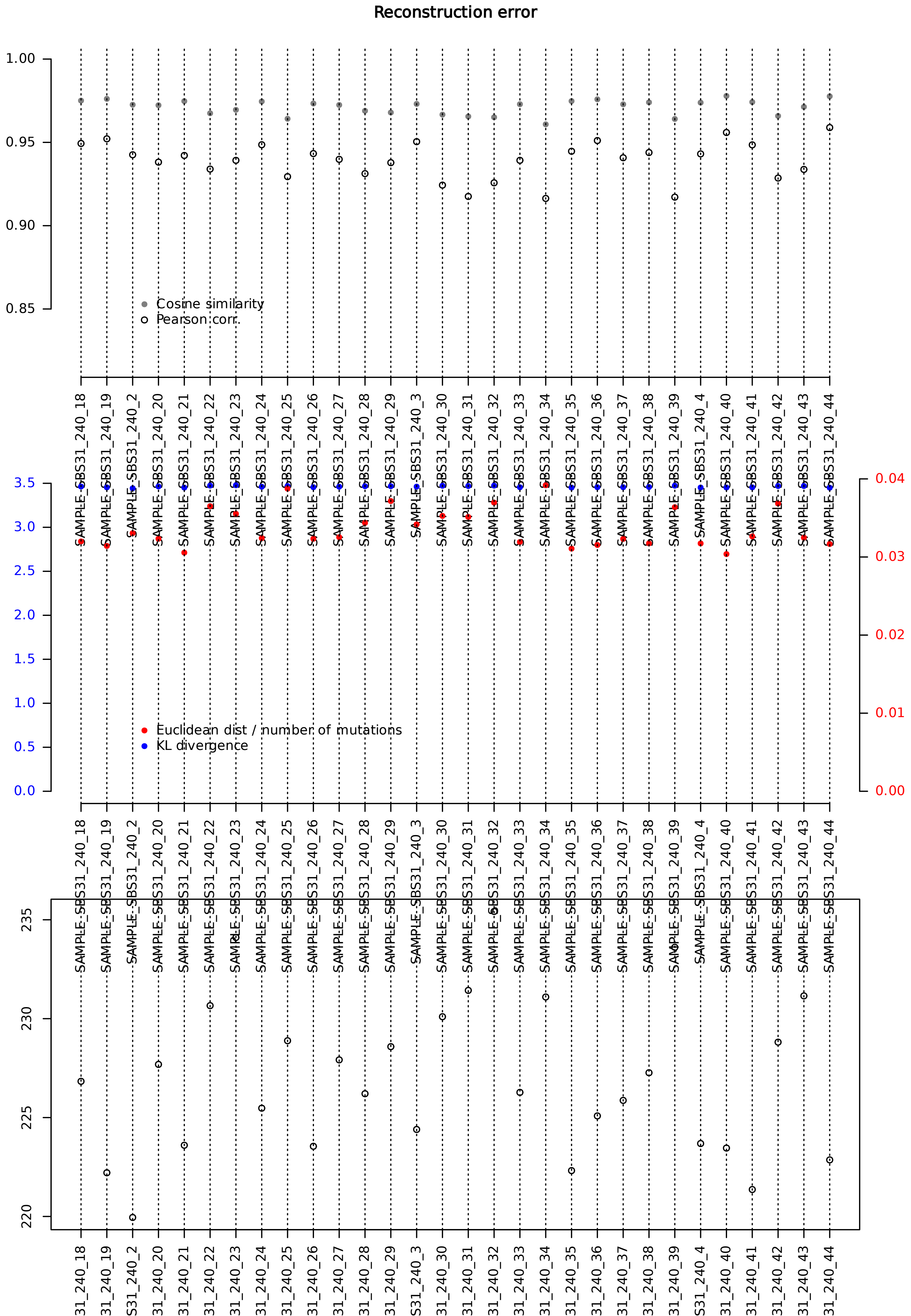
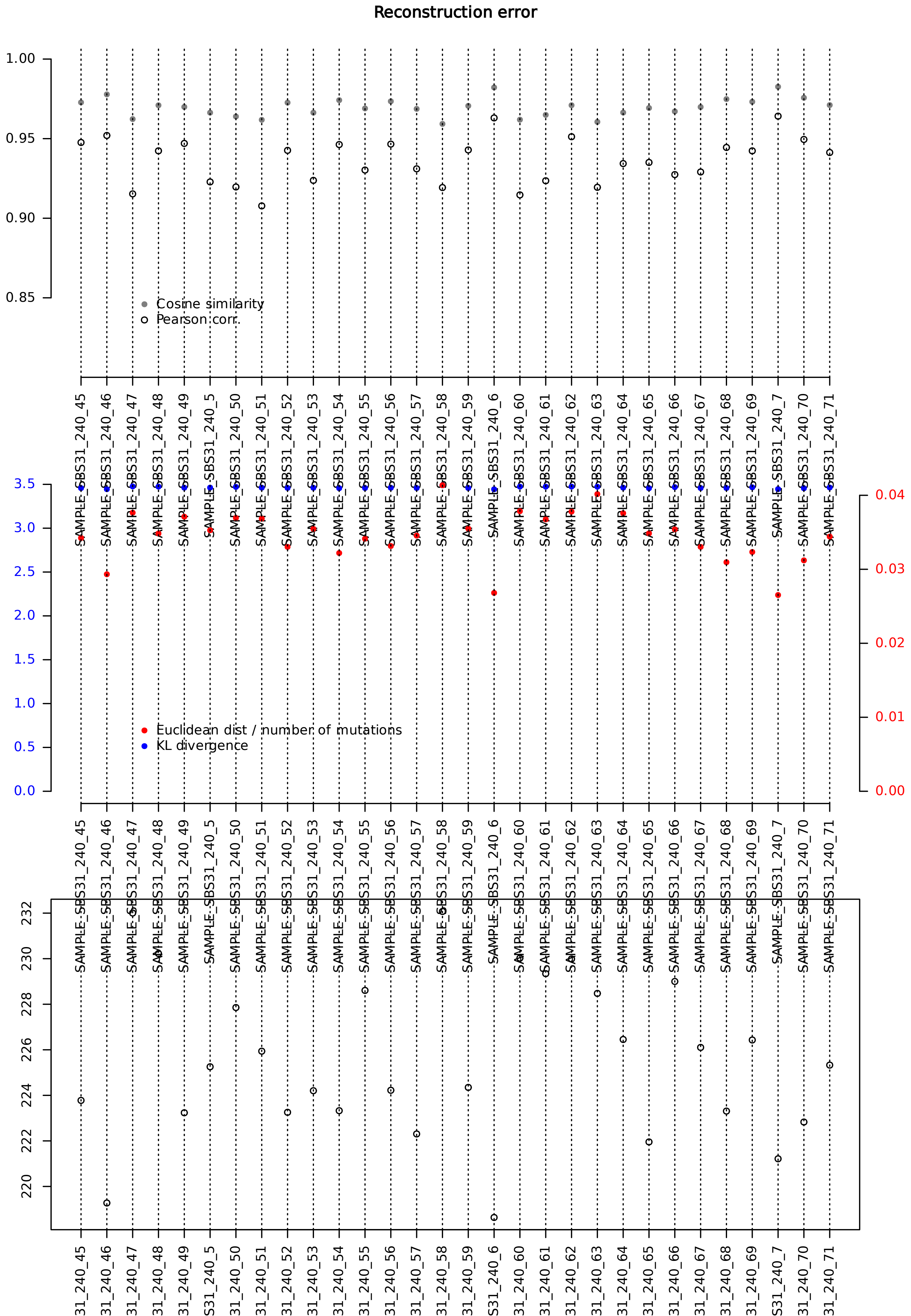
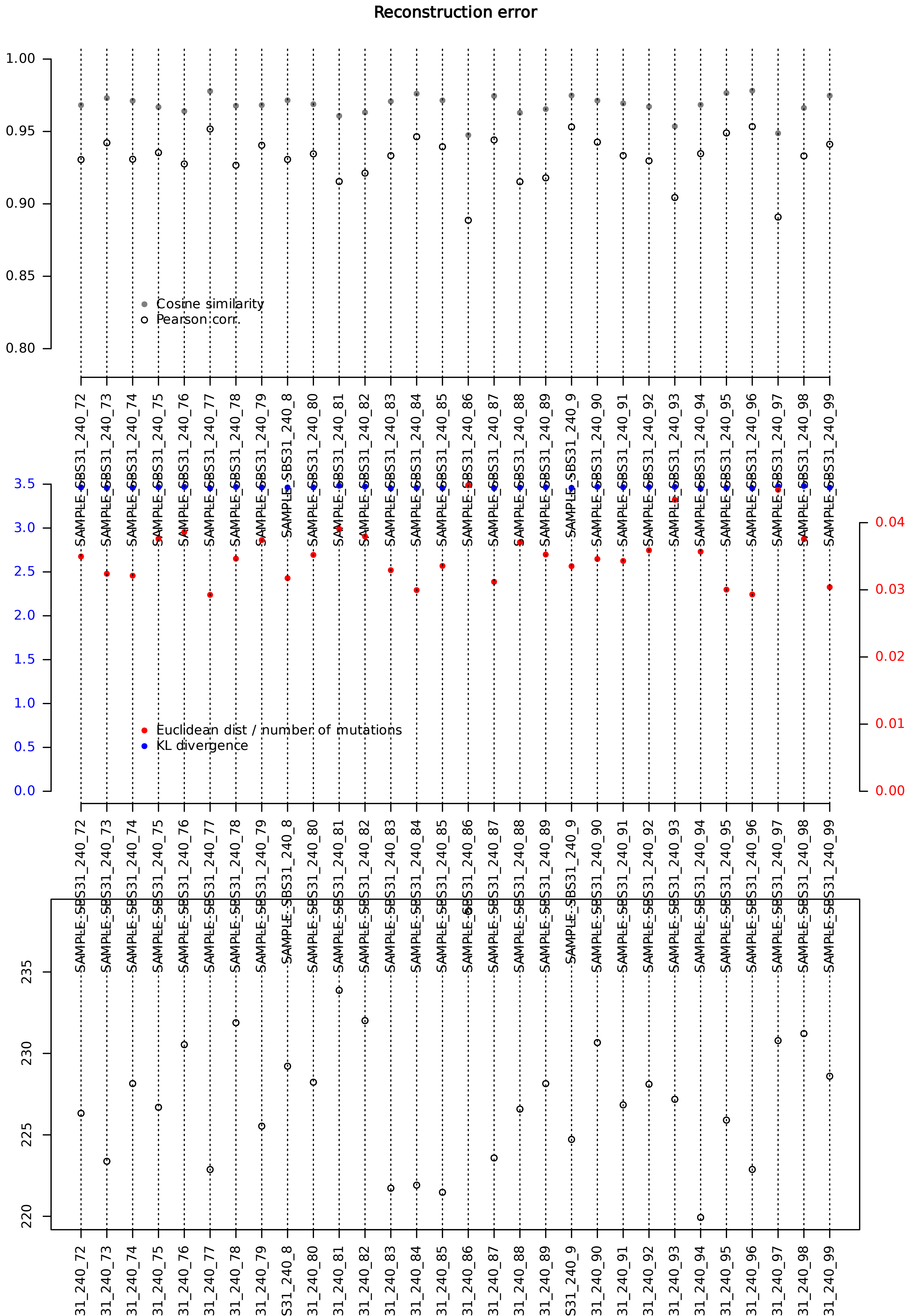
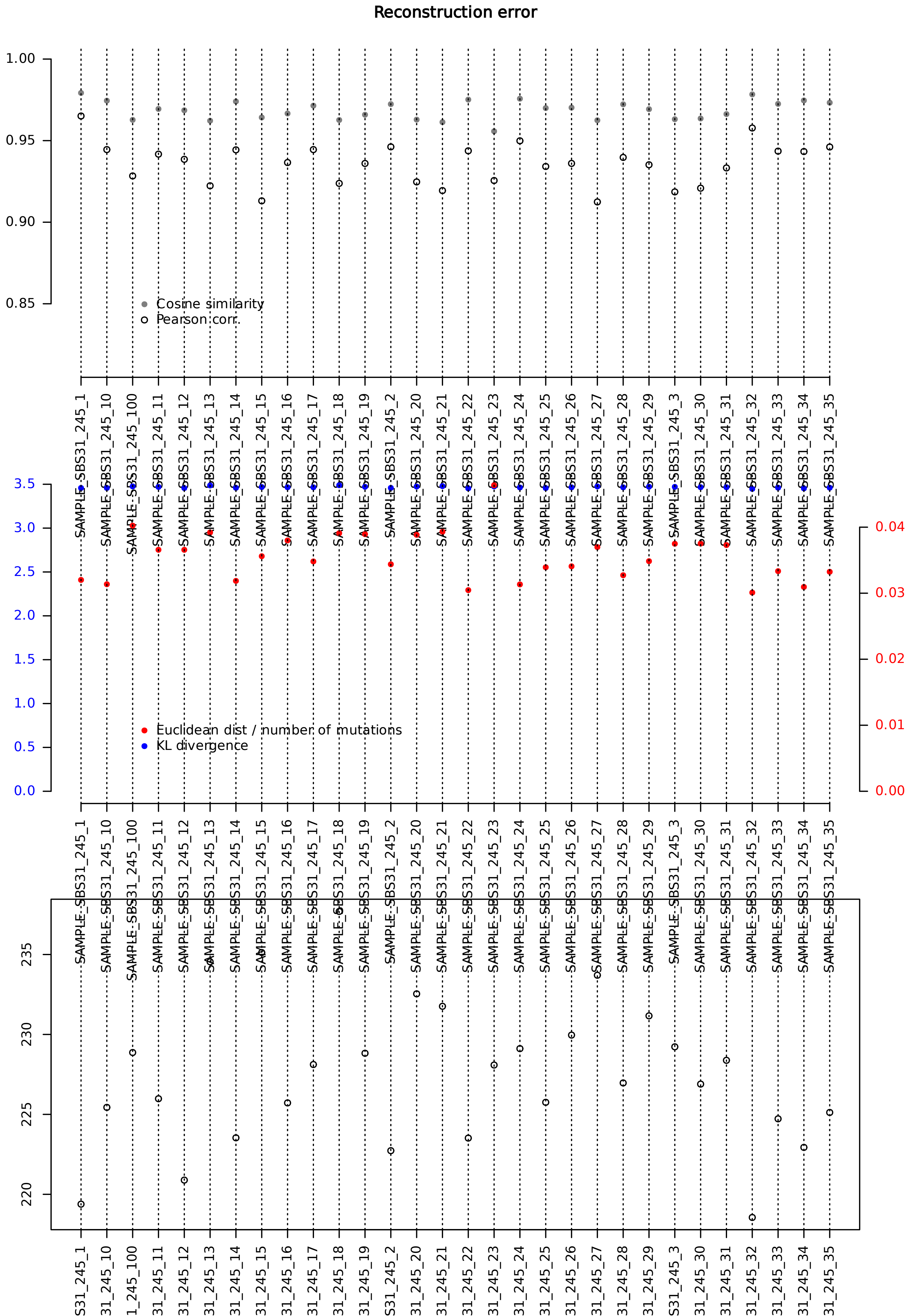
SAMPLE-SBS31_235_78
SAMPLE-SBS31_235_79
SAMPLE-SBS31_235_8
SAMPLE-SBS31_235_80

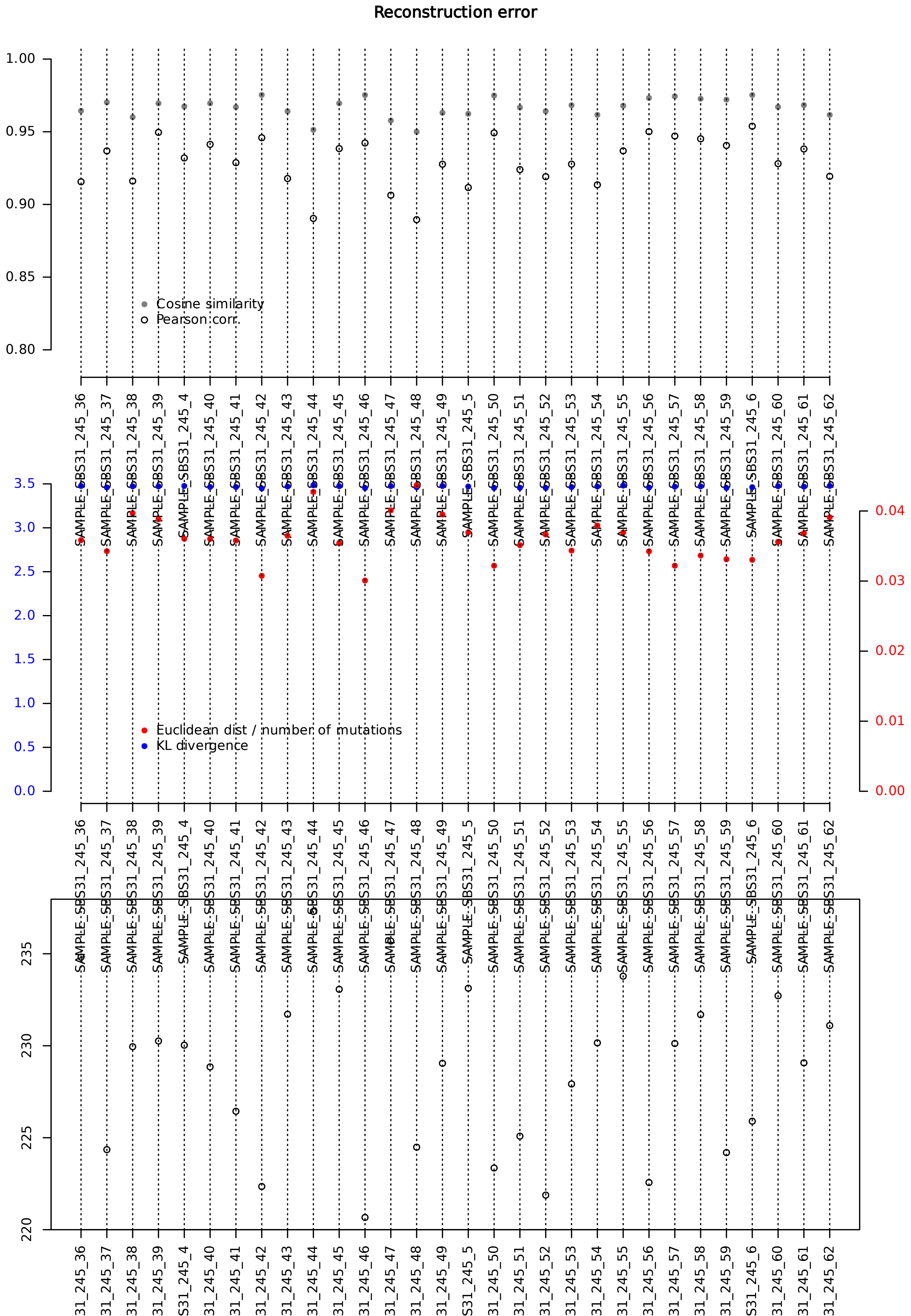

Reconstruction error
1.00
0.95
0.90
0.85
0.80
● Cosine similarity
○ Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
● Euclidean dist / number of mutations
● KL divergence
234
232
230
228
226
224
222
220
SAMPLE-SBS31_235_81
SAMPLE-SBS31_235_82
SAMPLE-SBS31_235_83
SAMPLE-SBS31_235_84
SAMPLE-SBS31_235_85
SAMPLE-SBS31_235_86
SAMPLE-SBS31_235_87
SAMPLE-SBS31_235_88
SAMPLE-SBS31_235_89
SAMPLE-SBS31_235_9
SAMPLE-SBS31_235_90
SAMPLE-SBS31_235_91
SAMPLE-SBS31_235_92
SAMPLE-SBS31_235_93
SAMPLE-SBS31_235_94
SAMPLE-SBS31_235_95
SAMPLE-SBS31_235_96
SAMPLE-SBS31_235_97
SAMPLE-SBS31_235_98
SAMPLE-SBS31_235_99
SAMPLE-SBS31_240_1
SAMPLE-SBS31_240_10
SAMPLE-SBS31_240_100
SAMPLE-SBS31_240_11
SAMPLE-SBS31_240_12
SAMPLE-SBS31_240_13
SAMPLE-SBS31_240_14
SAMPLE-SBS31_240_15
SAMPLE-SBS31_240_16
SAMPLE-SBS31_240_17


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
220
SAMPLE-SBS31_240_18
SAMPLE-SBS31_240_19
SAMPLE-SBS31_240_2
SAMPLE-SBS31_240_20
SAMPLE-SBS31_240_21
SAMPLE-SBS31_240_22
SAMPLE-SBS31_240_23
SAMPLE-SBS31_240_24
SAMPLE-SBS31_240_25
SAMPLE-SBS31_240_26
SAMPLE-SBS31_240_27
SAMPLE-SBS31_240_28
SAMPLE-SBS31_240_29
SAMPLE-SBS31_240_3
SAMPLE-SBS31_240_30
SAMPLE-SBS31_240_31
SAMPLE-SBS31_240_32
SAMPLE-SBS31_240_33
SAMPLE-SBS31_240_34
SAMPLE-SBS31_240_35
SAMPLE-SBS31_240_36
SAMPLE-SBS31_240_37
SAMPLE-SBS31_240_38
SAMPLE-SBS31_240_39
SAMPLE-SBS31_240_4
SAMPLE-SBS31_240_40
SAMPLE-SBS31_240_41
SAMPLE-SBS31_240_42
SAMPLE-SBS31_240_43
SAMPLE-SBS31_240_44

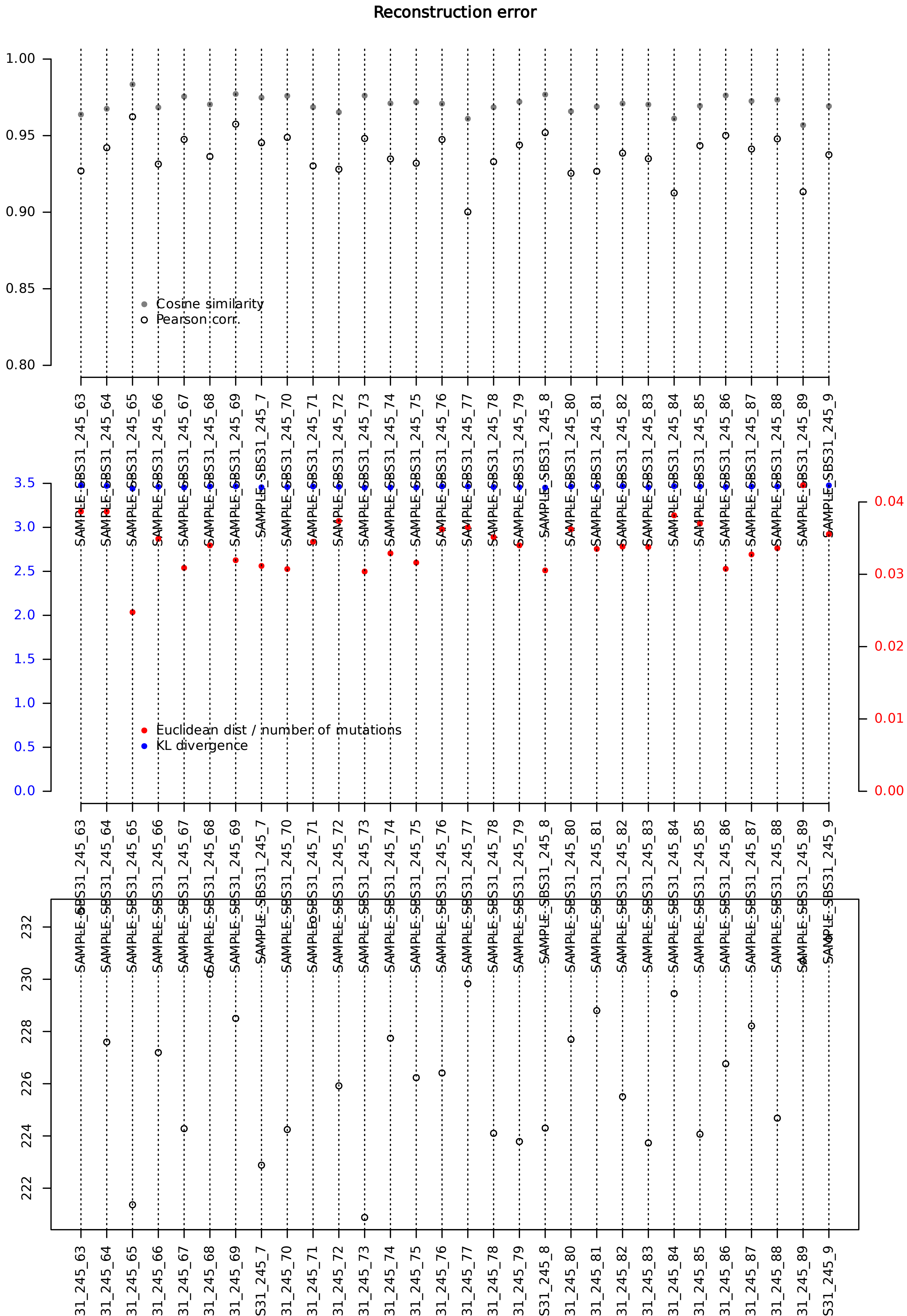

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
232
230
228
226
224
222
220
SAMPLE-SBS31_240_45
SAMPLE-SBS31_240_46
SAMPLE-SBS31_240_47
SAMPLE-SBS31_240_48
SAMPLE-SBS31_240_49
SAMPLE-SBS31_240_5
SAMPLE-SBS31_240_50
SAMPLE-SBS31_240_51
SAMPLE-SBS31_240_52
SAMPLE-SBS31_240_53
SAMPLE-SBS31_240_54
SAMPLE-SBS31_240_55
SAMPLE-SBS31_240_56
SAMPLE-SBS31_240_57
SAMPLE-SBS31_240_58
SAMPLE-SBS31_240_59
SAMPLE-SBS31_240_6
SAMPLE-SBS31_240_60
SAMPLE-SBS31_240_61
SAMPLE-SBS31_240_62
SAMPLE-SBS31_240_63
SAMPLE-SBS31_240_64
SAMPLE-SBS31_240_65
SAMPLE-SBS31_240_66
SAMPLE-SBS31_240_67
SAMPLE-SBS31_240_68
SAMPLE-SBS31_240_69
SAMPLE-SBS31_240_7
SAMPLE-SBS31_240_70
SAMPLE-SBS31_240_71


Reconstruction error
1.00
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
220
SAMPLE-SBS31_240_72
SAMPLE-SBS31_240_73
SAMPLE-SBS31_240_74
SAMPLE-SBS31_240_75
SAMPLE-SBS31_240_76
SAMPLE-SBS31_240_77
SAMPLE-SBS31_240_78
SAMPLE-SBS31_240_79
SAMPLE-SBS31_240_8
SAMPLE-SBS31_240_80
SAMPLE-SBS31_240_81
SAMPLE-SBS31_240_82
SAMPLE-SBS31_240_83
SAMPLE-SBS31_240_84
SAMPLE-SBS31_240_85
SAMPLE-SBS31_240_86
SAMPLE-SBS31_240_87
SAMPLE-SBS31_240_88
SAMPLE-SBS31_240_89
SAMPLE-SBS31_240_9
SAMPLE-SBS31_240_90
SAMPLE-SBS31_240_91
SAMPLE-SBS31_240_92
SAMPLE-SBS31_240_93
SAMPLE-SBS31_240_94
SAMPLE-SBS31_240_95
SAMPLE-SBS31_240_96
SAMPLE-SBS31_240_97
SAMPLE-SBS31_240_98
SAMPLE-SBS31_240_99


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
220
SAMPLE-SBS31_245_1
SAMPLE-SBS31_245_10
SAMPLE-SBS31_245_100
SAMPLE-SBS31_245_11
SAMPLE-SBS31_245_12
SAMPLE-SBS31_245_13
SAMPLE-SBS31_245_14
SAMPLE-SBS31_245_15
SAMPLE-SBS31_245_16
SAMPLE-SBS31_245_17
SAMPLE-SBS31_245_18
SAMPLE-SBS31_245_19
SAMPLE-SBS31_245_2
SAMPLE-SBS31_245_20
SAMPLE-SBS31_245_21
SAMPLE-SBS31_245_22
SAMPLE-SBS31_245_23
SAMPLE-SBS31_245_24
SAMPLE-SBS31_245_25
SAMPLE-SBS31_245_26
SAMPLE-SBS31_245_27
SAMPLE-SBS31_245_28
SAMPLE-SBS31_245_29
SAMPLE-SBS31_245_3
SAMPLE-SBS31_245_30
SAMPLE-SBS31_245_31
SAMPLE-SBS31_245_32
SAMPLE-SBS31_245_33
SAMPLE-SBS31_245_34
SAMPLE-SBS31_245_35



Reconstruction error


Reconstruction error
1.00
0.95
0.90
0.85
0.80
● Cosine similarity
○ Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
● Euclidean dist / number of mutations
● KL divergence
232
230
228
226
224
222
SAMPLE-SBS31_245_63
SAMPLE-SBS31_245_64
SAMPLE-SBS31_245_65
SAMPLE-SBS31_245_66
SAMPLE-SBS31_245_67
SAMPLE-SBS31_245_68
SAMPLE-SBS31_245_69
SAMPLE-SBS31_245_7
SAMPLE-SBS31_245_70
SAMPLE-SBS31_245_71
SAMPLE-SBS31_245_72
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SAMPLE-SBS31_245_75
SAMPLE-SBS31_245_76
SAMPLE-SBS31_245_77
SAMPLE-SBS31_245_78
SAMPLE-SBS31_245_79
SAMPLE-SBS31_245_8
SAMPLE-SBS31_245_80
SAMPLE-SBS31_245_81
SAMPLE-SBS31_245_82
SAMPLE-SBS31_245_83
SAMPLE-SBS31_245_84
SAMPLE-SBS31_245_85
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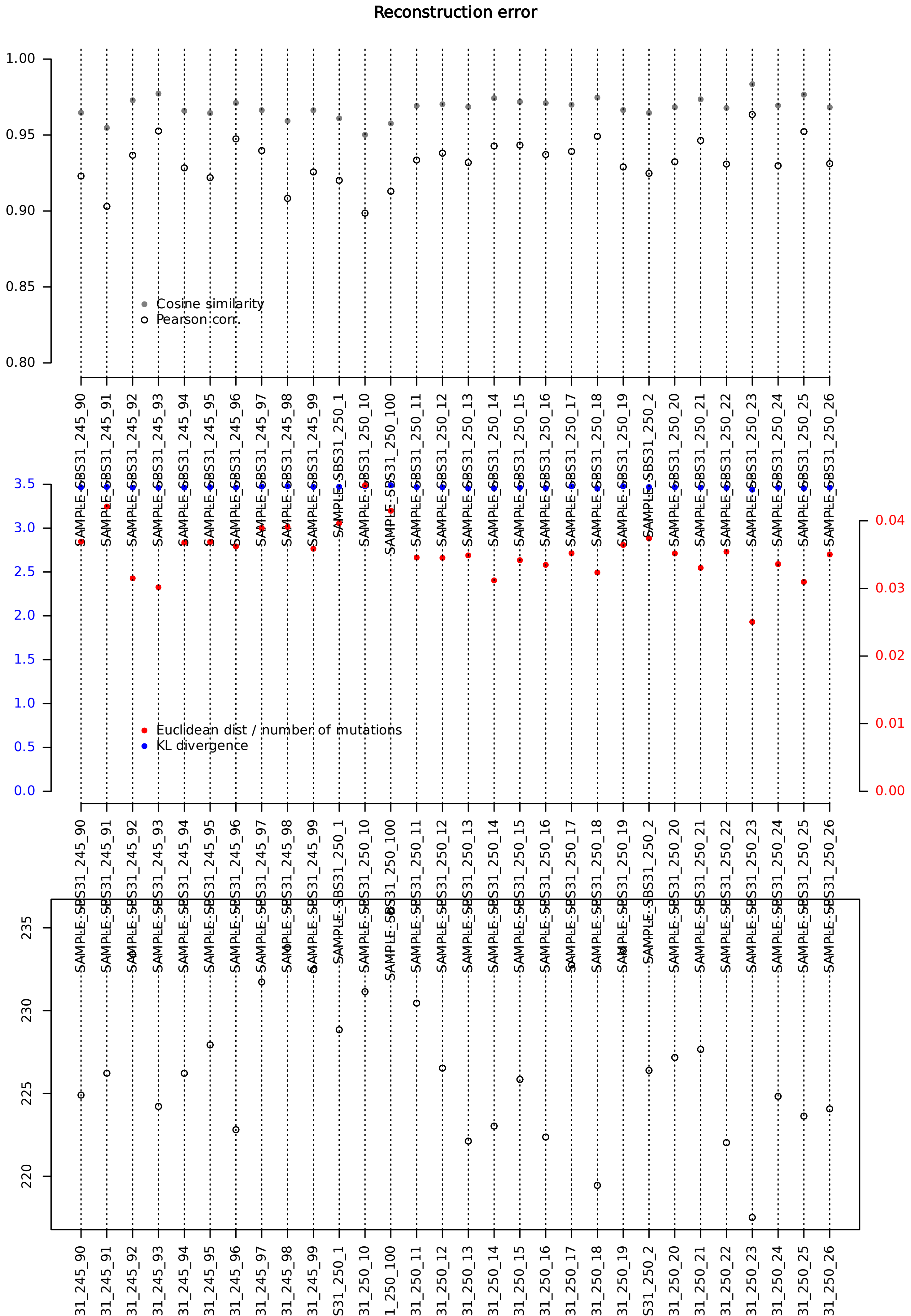
SAMPLE-SBS31_245_87
SAMPLE-SBS31_245_88
SAMPLE-SBS31_245_89
SAMPLE-SBS31_245_9


Reconstruction error
1.00
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
220
SAMPLE-SBS31_245_90
SAMPLE-SBS31_245_91
SAMPLE-SBS31_245_92
SAMPLE-SBS31_245_93
SAMPLE-SBS31_245_94
SAMPLE-SBS31_245_95
SAMPLE-SBS31_245_96
SAMPLE-SBS31_245_97
SAMPLE-SBS31_245_98
SAMPLE-SBS31_245_99
SAMPLE-SBS31_250_1
SAMPLE-SBS31_250_10
SAMPLE-SBS31_250_100
SAMPLE-SBS31_250_11
SAMPLE-SBS31_250_12
SAMPLE-SBS31_250_13
SAMPLE-SBS31_250_14
SAMPLE-SBS31_250_15
SAMPLE-SBS31_250_16
SAMPLE-SBS31_250_17
SAMPLE-SBS31_250_18
SAMPLE-SBS31_250_19
SAMPLE-SBS31_250_2
SAMPLE-SBS31_250_20
SAMPLE-SBS31_250_21
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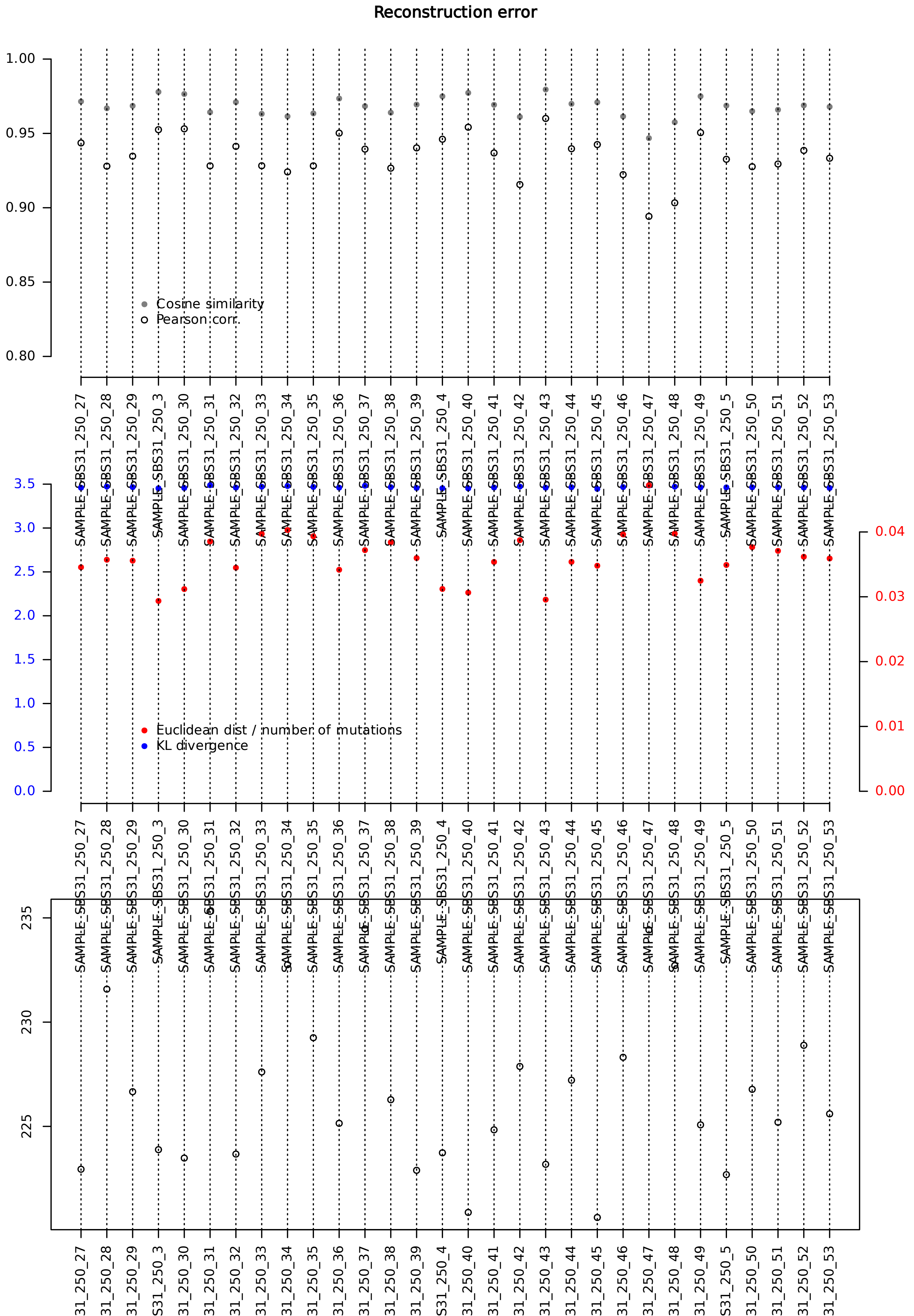
SAMPLE-SBS31_250_23
SAMPLE-SBS31_250_24
SAMPLE-SBS31_250_25
SAMPLE-SBS31_250_26


Reconstruction error
1.00
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
SAMPLE-SBS31_250_27
SAMPLE-SBS31_250_28
SAMPLE-SBS31_250_29
SAMPLE-SBS31_250_3
SAMPLE-SBS31_250_30
SAMPLE-SBS31_250_31
SAMPLE-SBS31_250_32
SAMPLE-SBS31_250_33
SAMPLE-SBS31_250_34
SAMPLE-SBS31_250_35
SAMPLE-SBS31_250_36
SAMPLE-SBS31_250_37
SAMPLE-SBS31_250_38
SAMPLE-SBS31_250_39
SAMPLE-SBS31_250_4
SAMPLE-SBS31_250_40
SAMPLE-SBS31_250_41
SAMPLE-SBS31_250_42
SAMPLE-SBS31_250_43
SAMPLE-SBS31_250_44
SAMPLE-SBS31_250_45
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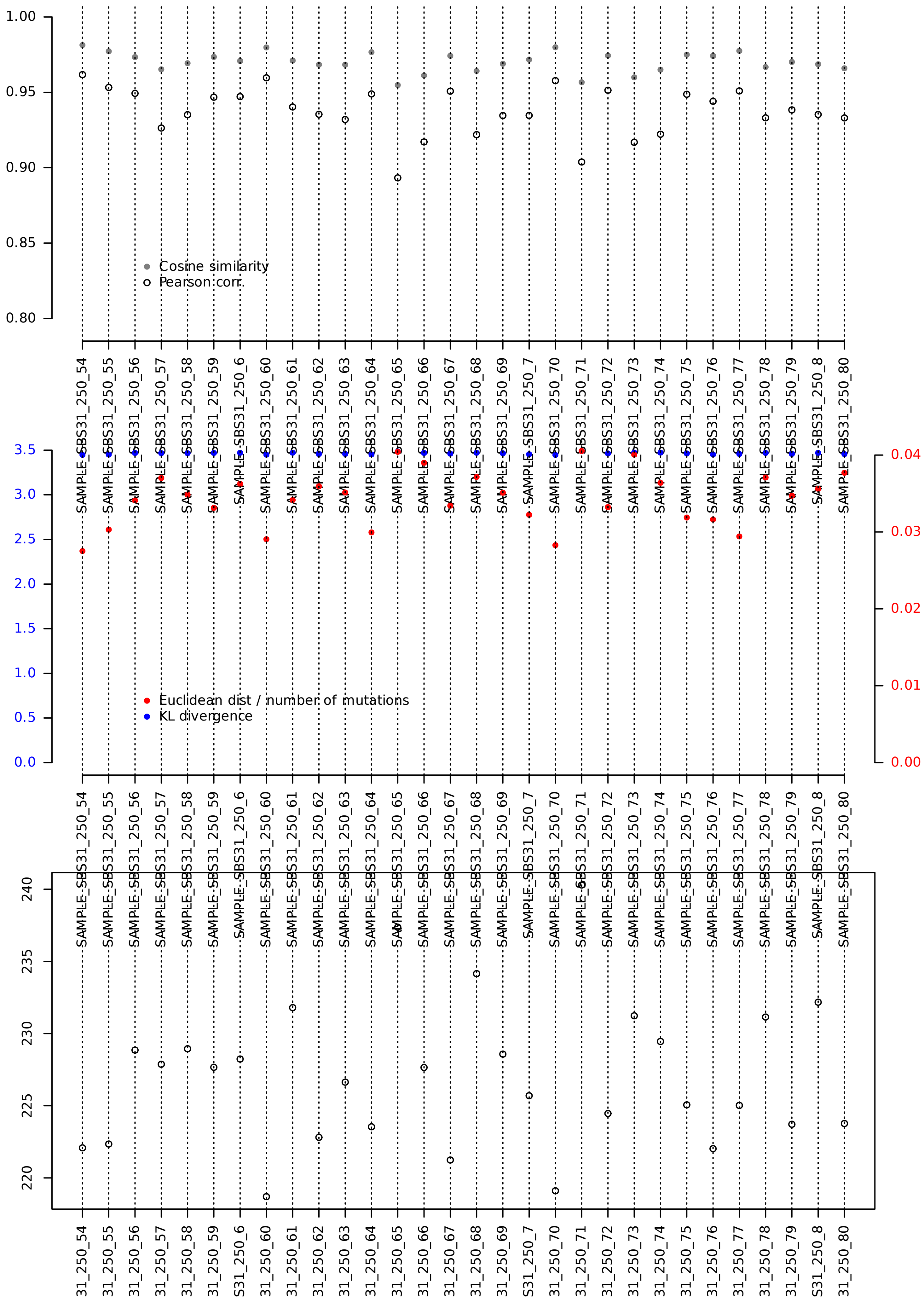
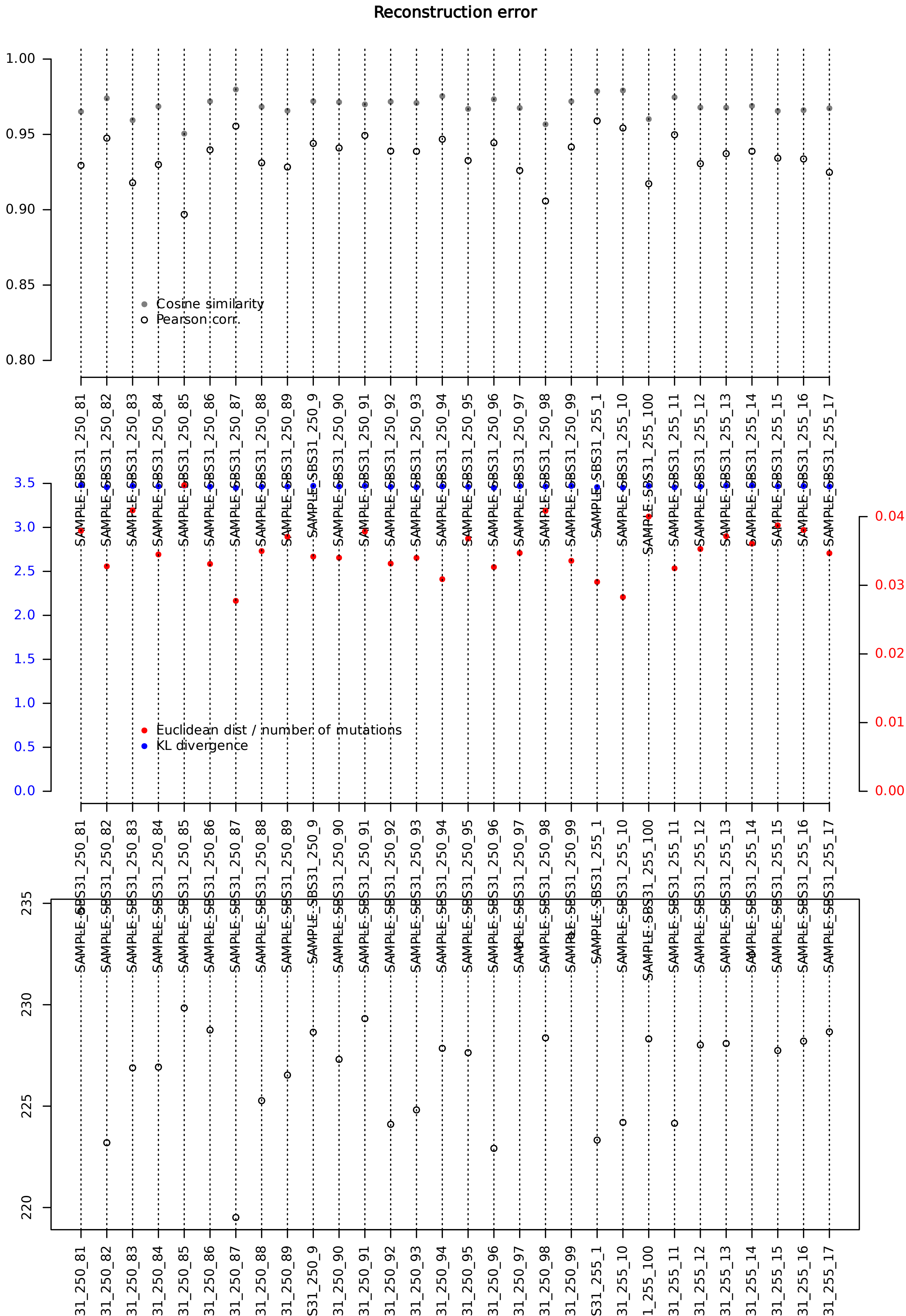
SAMPLE-SBS31_250_48
SAMPLE-SBS31_250_49
SAMPLE-SBS31_250_5
SAMPLE-SBS31_250_50
SAMPLE-SBS31_250_51
SAMPLE-SBS31_250_52
SAMPLE-SBS31_250_53
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225



Reconstruction error


Reconstruction error
1.00
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
SAMPLE-SBS31_250_81
SAMPLE-SBS31_250_82
SAMPLE-SBS31_250_83
SAMPLE-SBS31_250_84
SAMPLE-SBS31_250_85
SAMPLE-SBS31_250_86
SAMPLE-SBS31_250_87
SAMPLE-SBS31_250_88
SAMPLE-SBS31_250_89
SAMPLE-SBS31_250_9
SAMPLE-SBS31_250_90
SAMPLE-SBS31_250_91
SAMPLE-SBS31_250_92
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SAMPLE-SBS31_250_94
SAMPLE-SBS31_250_95
SAMPLE-SBS31_250_96
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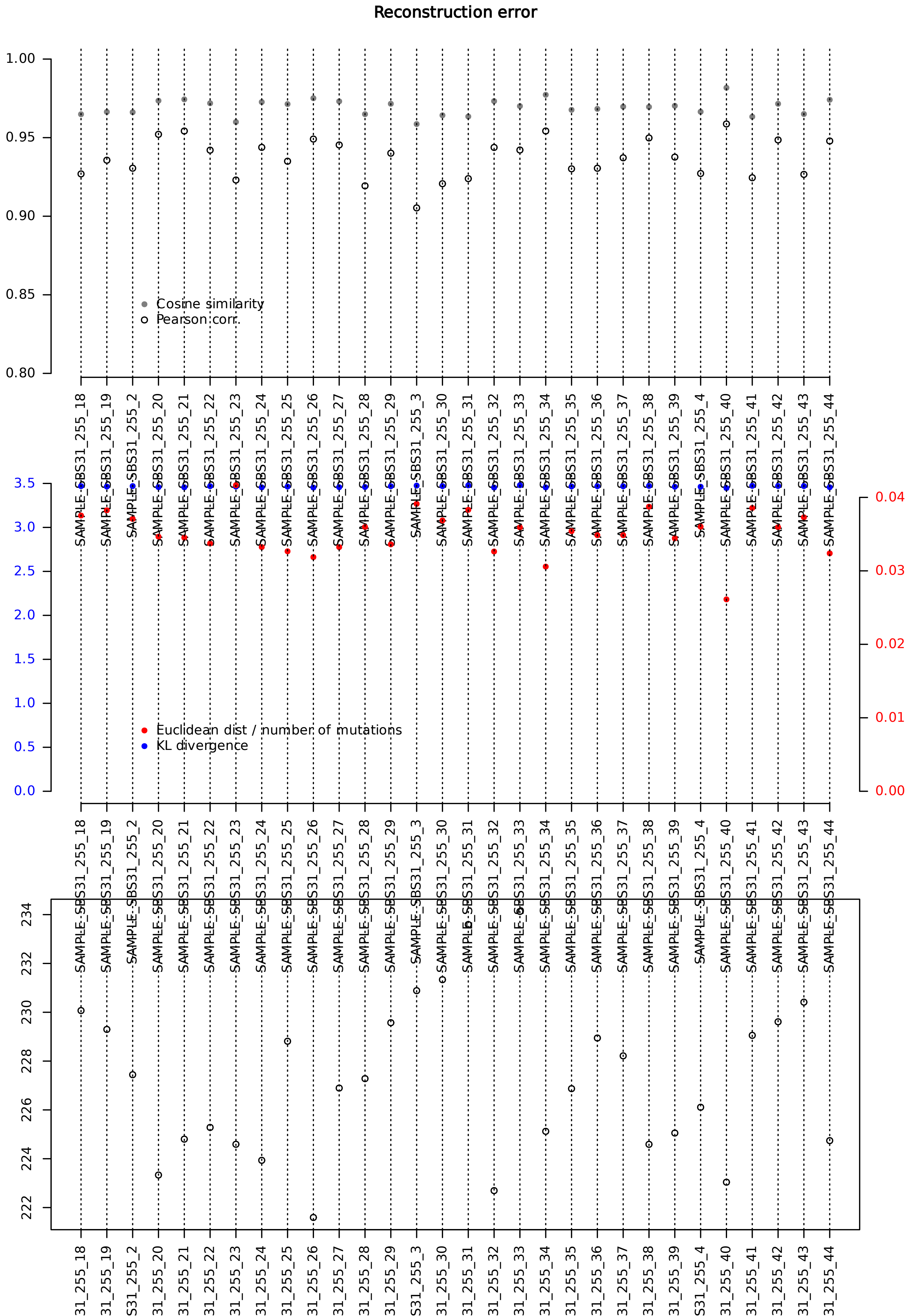
SAMPLE-SBS31_255_11
SAMPLE-SBS31_255_12
SAMPLE-SBS31_255_13
SAMPLE-SBS31_255_14
SAMPLE-SBS31_255_15
SAMPLE-SBS31_255_16
SAMPLE-SBS31_255_17
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
220


Reconstruction error
1.00
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
234
232
230
228
226
224
222
SAMPLE-SBS31_255_18
SAMPLE-SBS31_255_19
SAMPLE-SBS31_255_2
SAMPLE-SBS31_255_20
SAMPLE-SBS31_255_21
SAMPLE-SBS31_255_22
SAMPLE-SBS31_255_23
SAMPLE-SBS31_255_24
SAMPLE-SBS31_255_25
SAMPLE-SBS31_255_26
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SAMPLE-SBS31_255_33
SAMPLE-SBS31_255_34
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SAMPLE-SBS31_255_37
SAMPLE-SBS31_255_38
SAMPLE-SBS31_255_39
SAMPLE-SBS31_255_4
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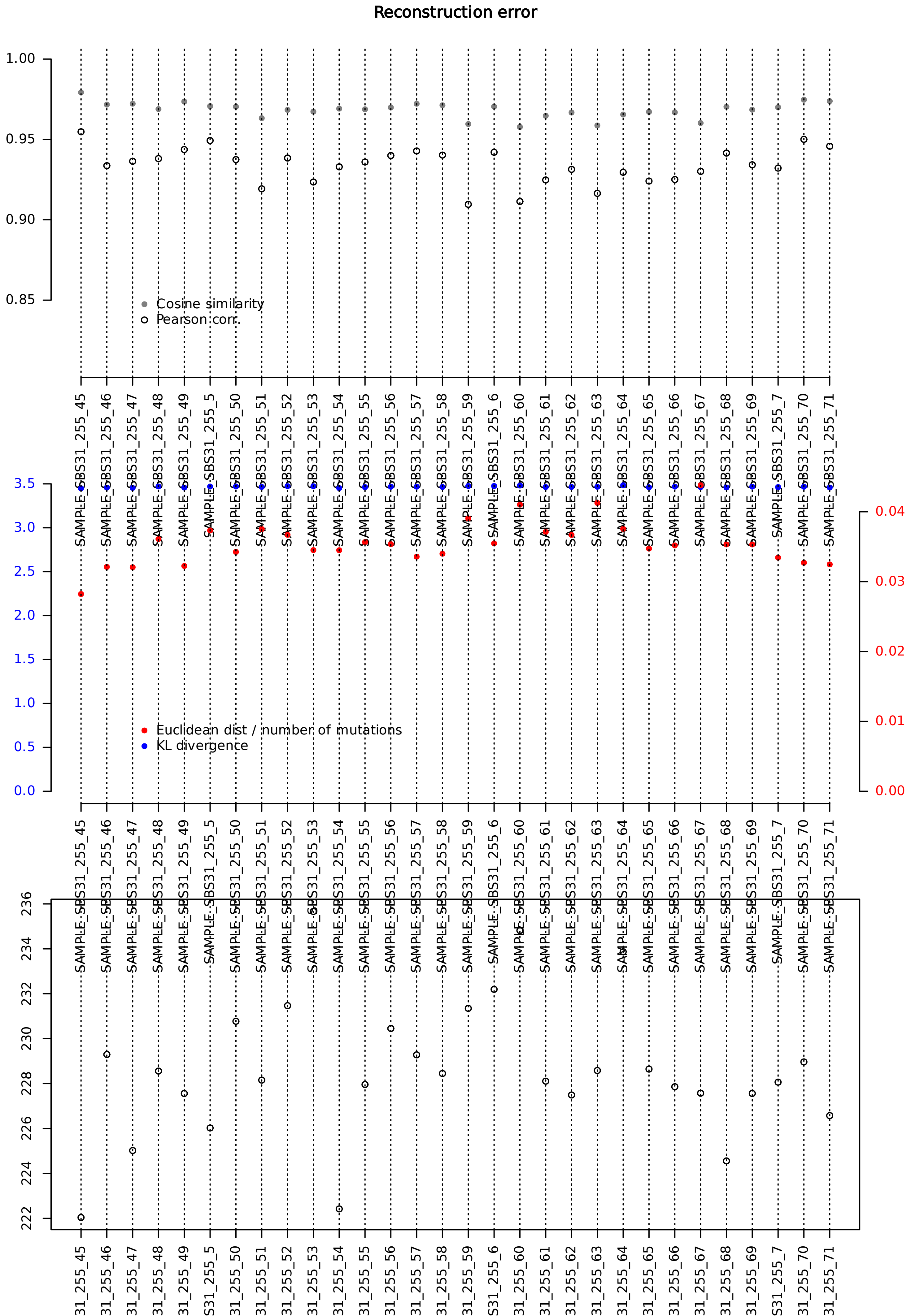
SAMPLE-SBS31_255_41
SAMPLE-SBS31_255_42
SAMPLE-SBS31_255_43
SAMPLE-SBS31_255_44


Reconstruction error
1.00
0.95
0.90
0.85
● Cosine similarity
○ Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
● Euclidean dist / number of mutations
● KL divergence
236
234
232
230
228
226
224
222
SAMPLE-SBS31_255_45
SAMPLE-SBS31_255_46
SAMPLE-SBS31_255_47
SAMPLE-SBS31_255_48
SAMPLE-SBS31_255_49
SAMPLE-SBS31_255_5
SAMPLE-SBS31_255_50
SAMPLE-SBS31_255_51
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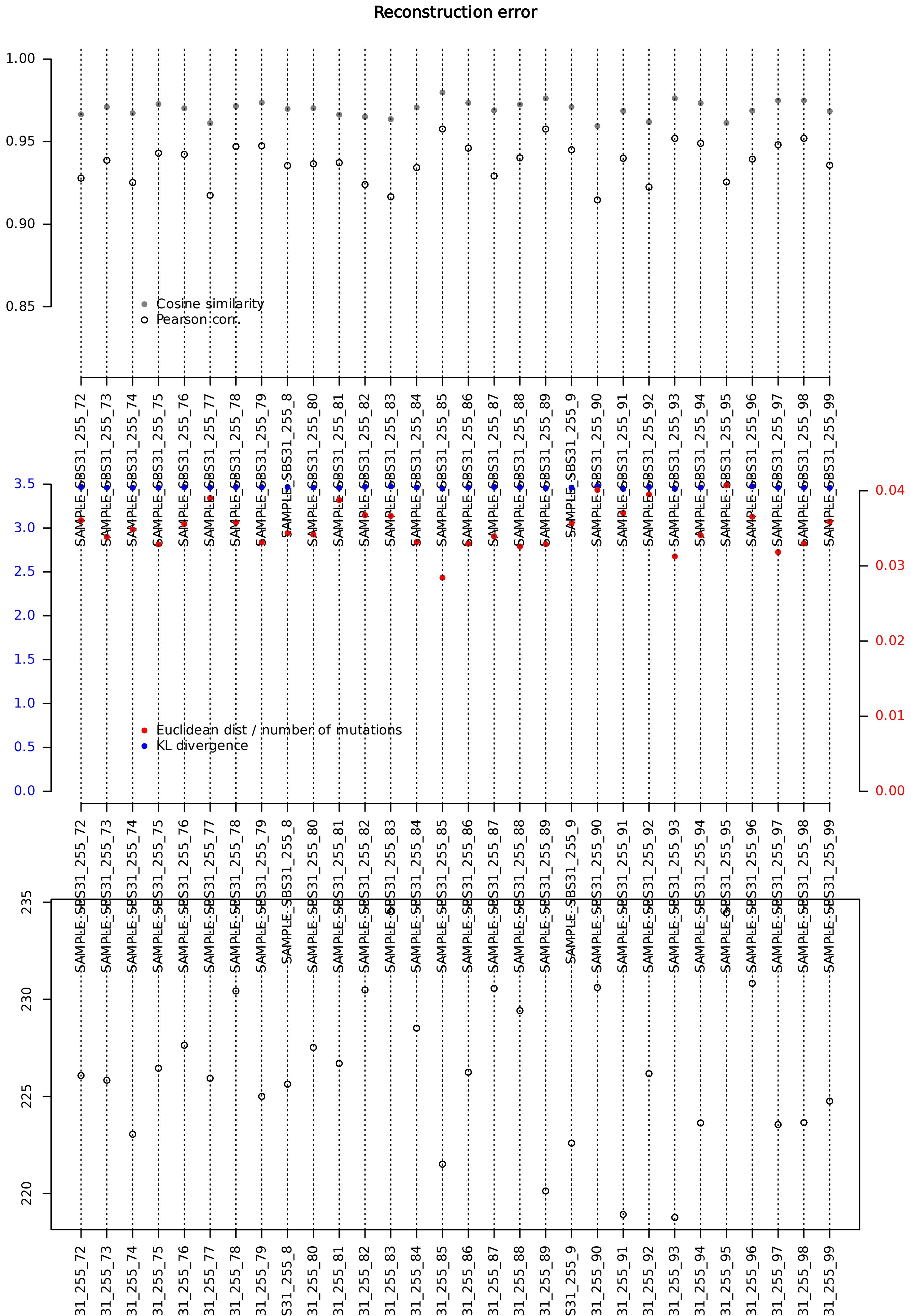
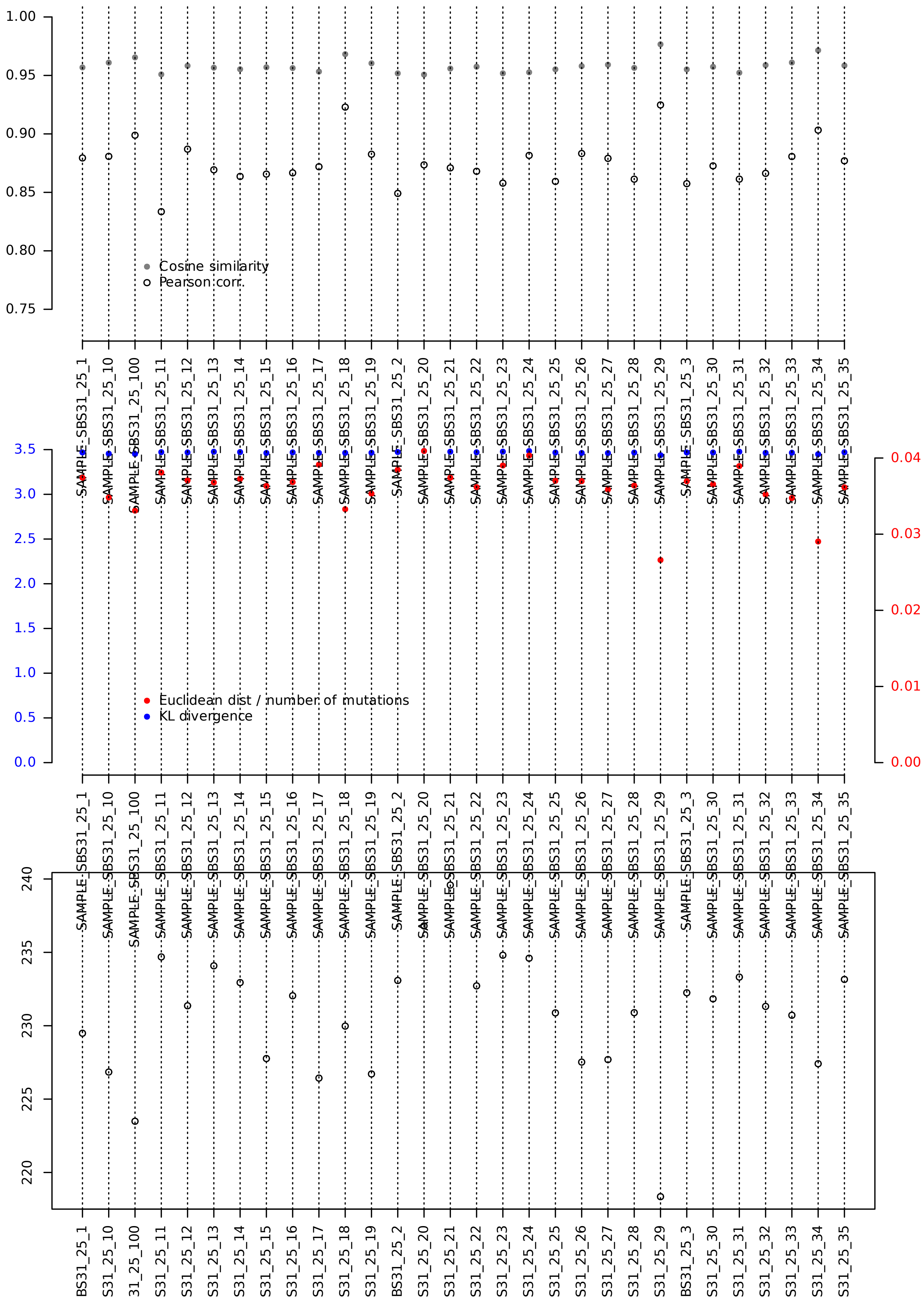
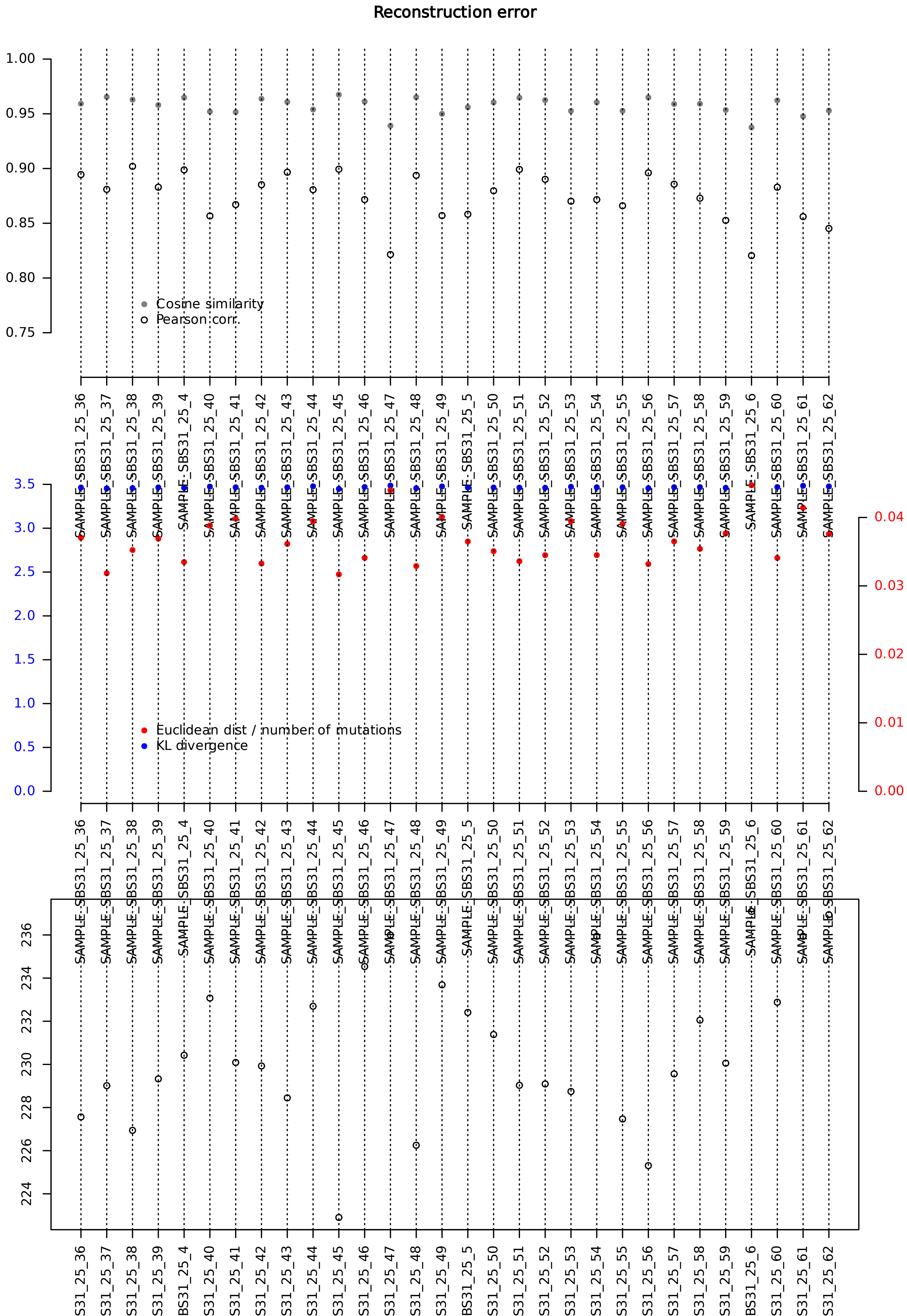
SAMPLE-SBS31_255_6
SAMPLE-SBS31_255_60
SAMPLE-SBS31_255_61
SAMPLE-SBS31_255_62
SAMPLE-SBS31_255_63
SAMPLE-SBS31_255_64
SAMPLE-SBS31_255_65
SAMPLE-SBS31_255_66
SAMPLE-SBS31_255_67
SAMPLE-SBS31_255_68
SAMPLE-SBS31_255_69
SAMPLE-SBS31_255_7
SAMPLE-SBS31_255_70
SAMPLE-SBS31_255_71


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
220
SAMPLE-SBS31_255_72
SAMPLE-SBS31_255_73
SAMPLE-SBS31_255_74
SAMPLE-SBS31_255_75
SAMPLE-SBS31_255_76
SAMPLE-SBS31_255_77
SAMPLE-SBS31_255_78
SAMPLE-SBS31_255_79
SAMPLE-SBS31_255_8
SAMPLE-SBS31_255_80
SAMPLE-SBS31_255_81
SAMPLE-SBS31_255_82
SAMPLE-SBS31_255_83
SAMPLE-SBS31_255_84
SAMPLE-SBS31_255_85
SAMPLE-SBS31_255_86
SAMPLE-SBS31_255_87
SAMPLE-SBS31_255_88
SAMPLE-SBS31_255_89
SAMPLE-SBS31_255_9
SAMPLE-SBS31_255_90
SAMPLE-SBS31_255_91
SAMPLE-SBS31_255_92
SAMPLE-SBS31_255_93
SAMPLE-SBS31_255_94
SAMPLE-SBS31_255_95
SAMPLE-SBS31_255_96
SAMPLE-SBS31_255_97
SAMPLE-SBS31_255_98
SAMPLE-SBS31_255_99


Reconstruction error


Reconstruction error
1.00
0.95
0.90
0.85
0.80
0.75
● Cosine similarity
○ Pearson corr.
SAMPLE-SBS31_25_36
SAMPLE-SBS31_25_37
SAMPLE-SBS31_25_38
SAMPLE-SBS31_25_39
SAMPLE-SBS31_25_4
SAMPLE-SBS31_25_40
SAMPLE-SBS31_25_41
SAMPLE-SBS31_25_42
SAMPLE-SBS31_25_43
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SAMPLE-SBS31_25_5
SAMPLE-SBS31_25_50
SAMPLE-SBS31_25_51
SAMPLE-SBS31_25_52
SAMPLE-SBS31_25_53
SAMPLE-SBS31_25_54
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SAMPLE-SBS31_25_56
SAMPLE-SBS31_25_57
SAMPLE-SBS31_25_58
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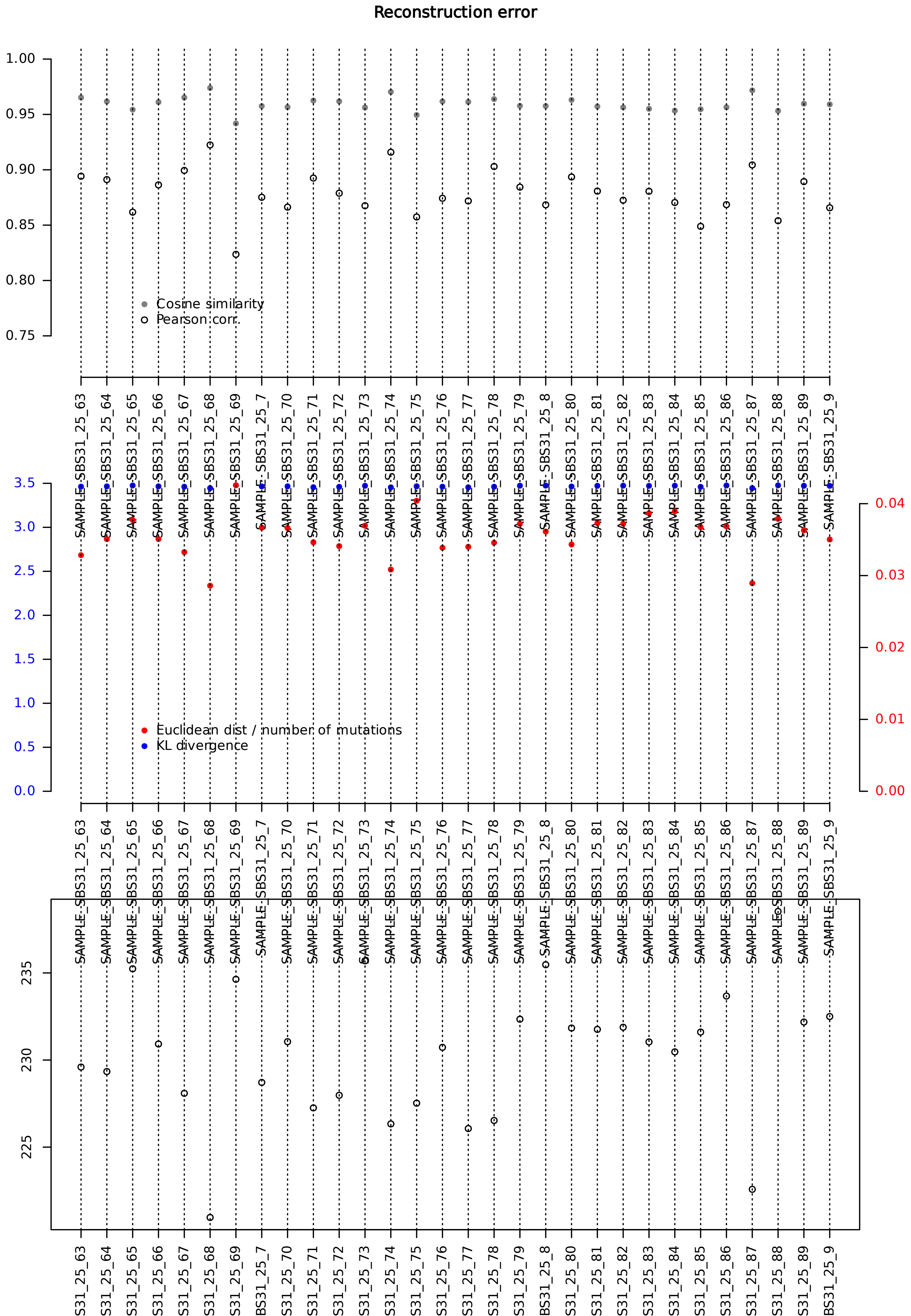
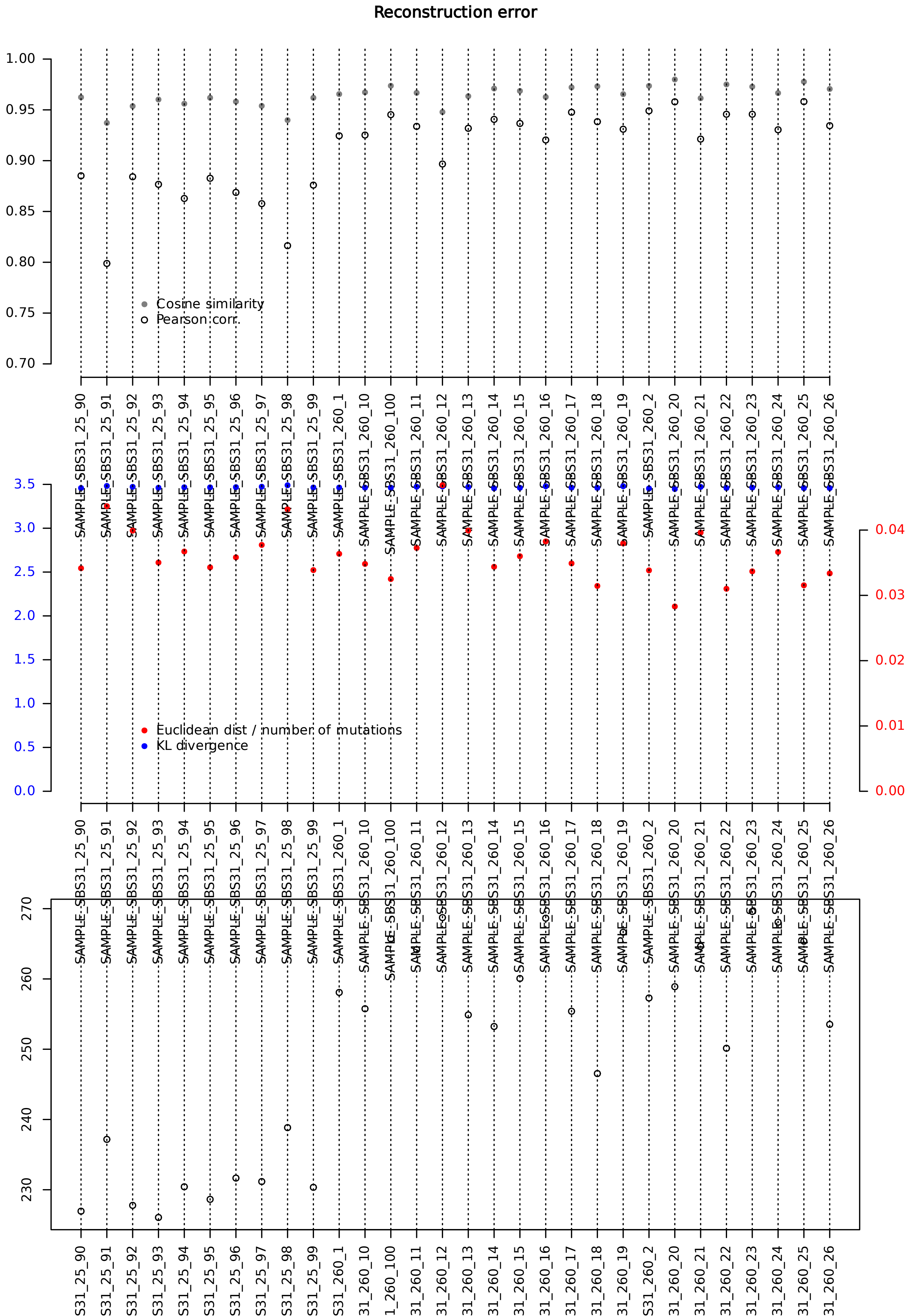
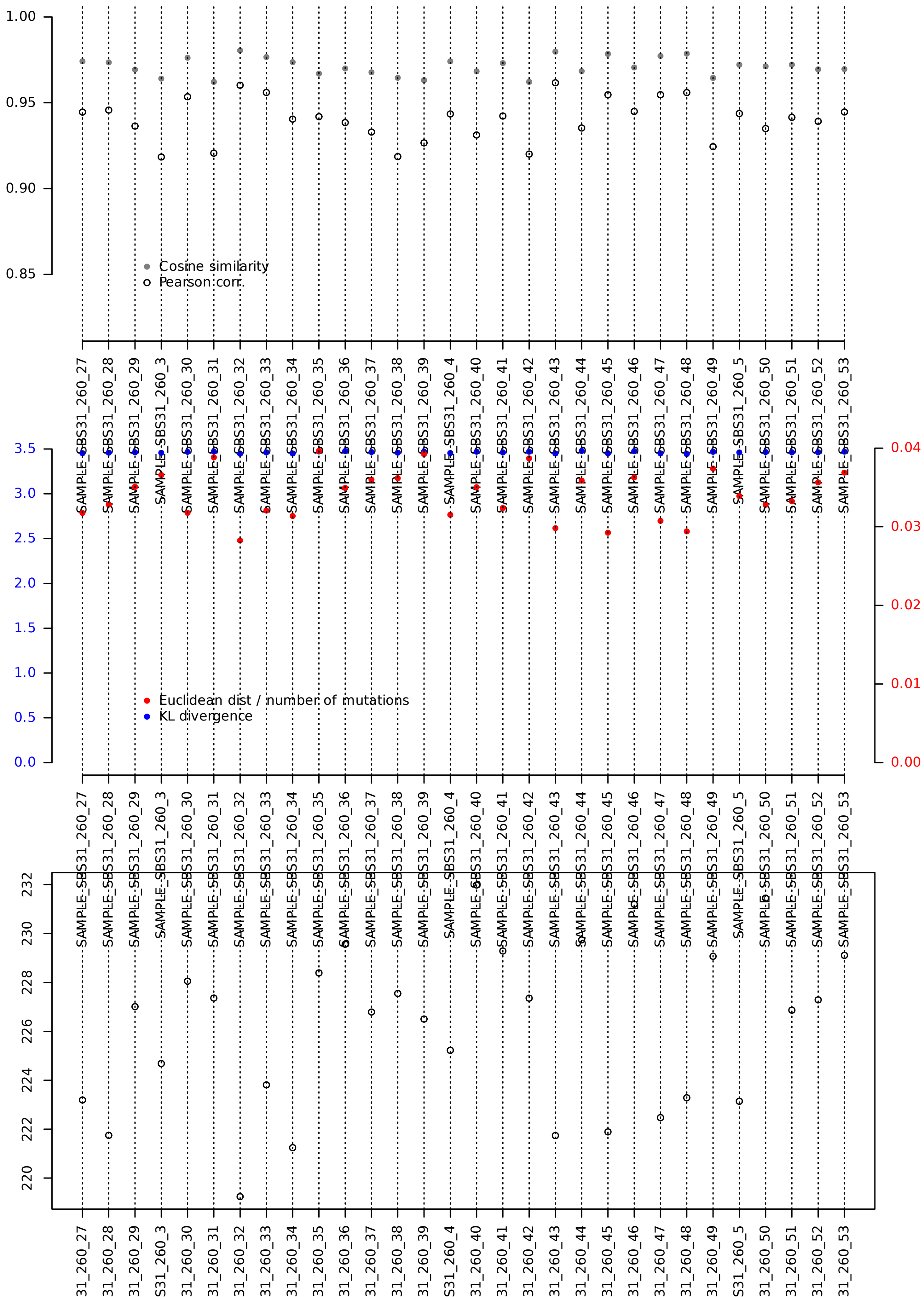
SAMPLE-SBS31_25_61
SAMPLE-SBS31_25_62
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
● Euclidean dist / number of mutations
● KL divergence
236
234
232
230
228
226
224



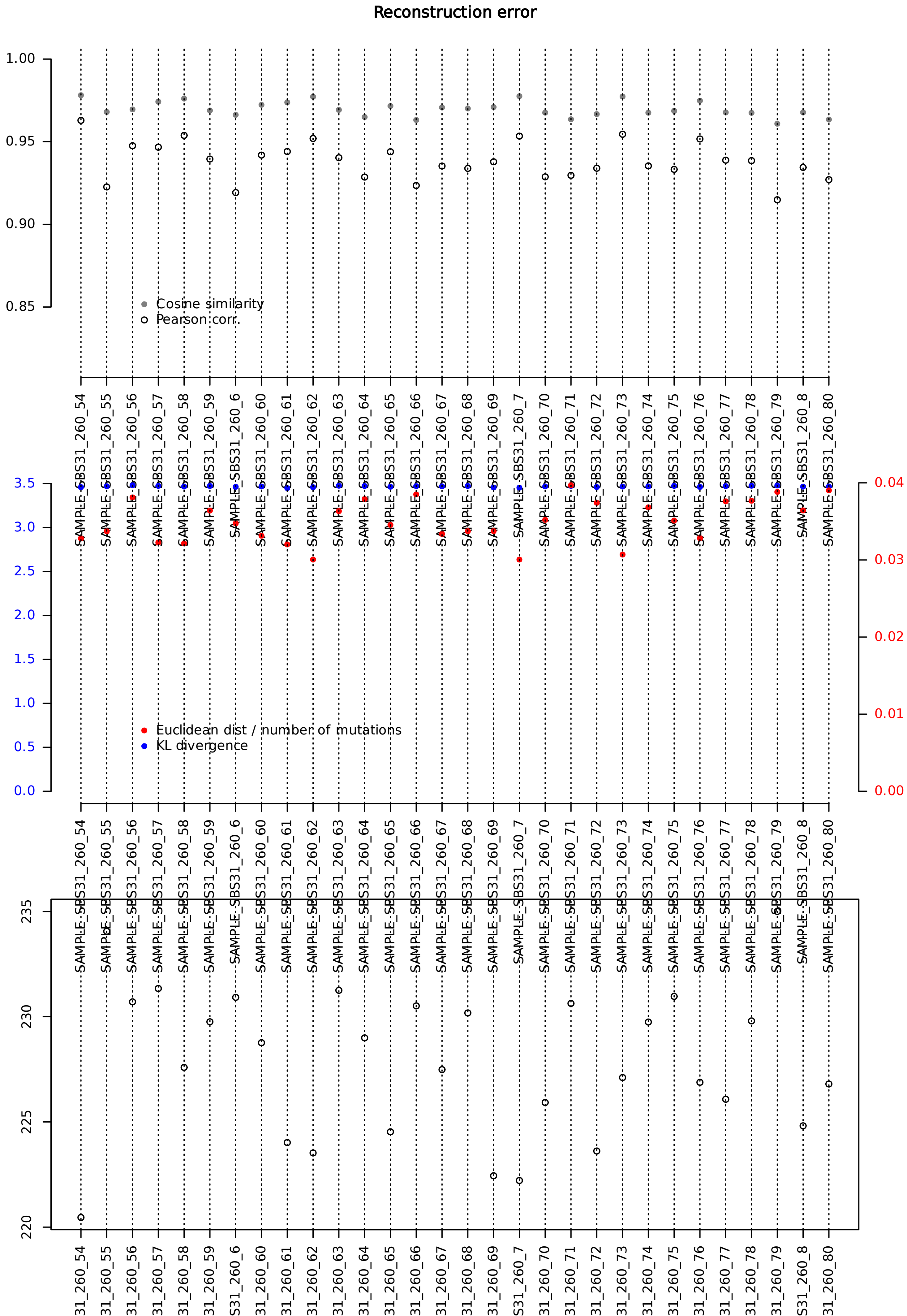
Reconstruction error

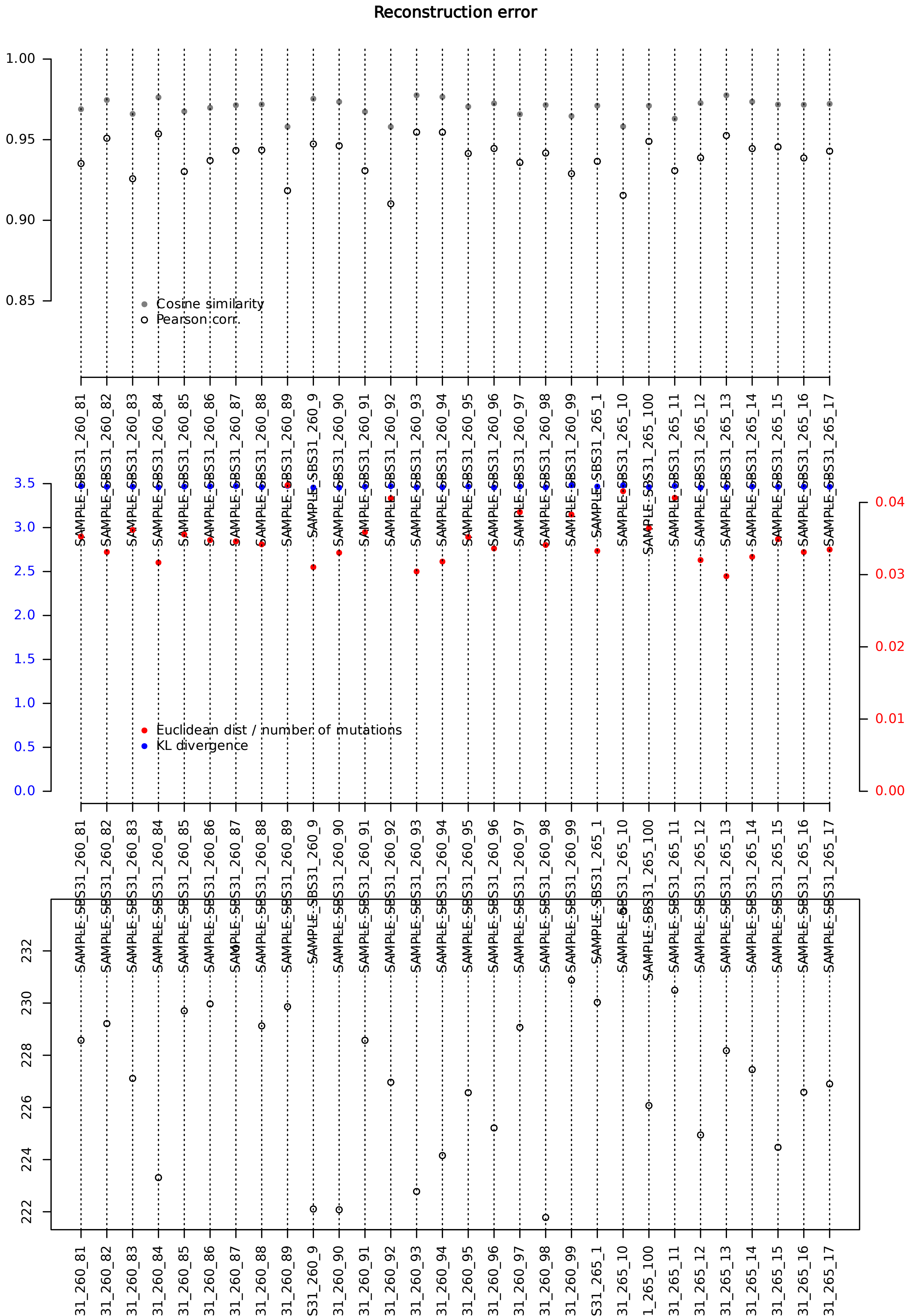


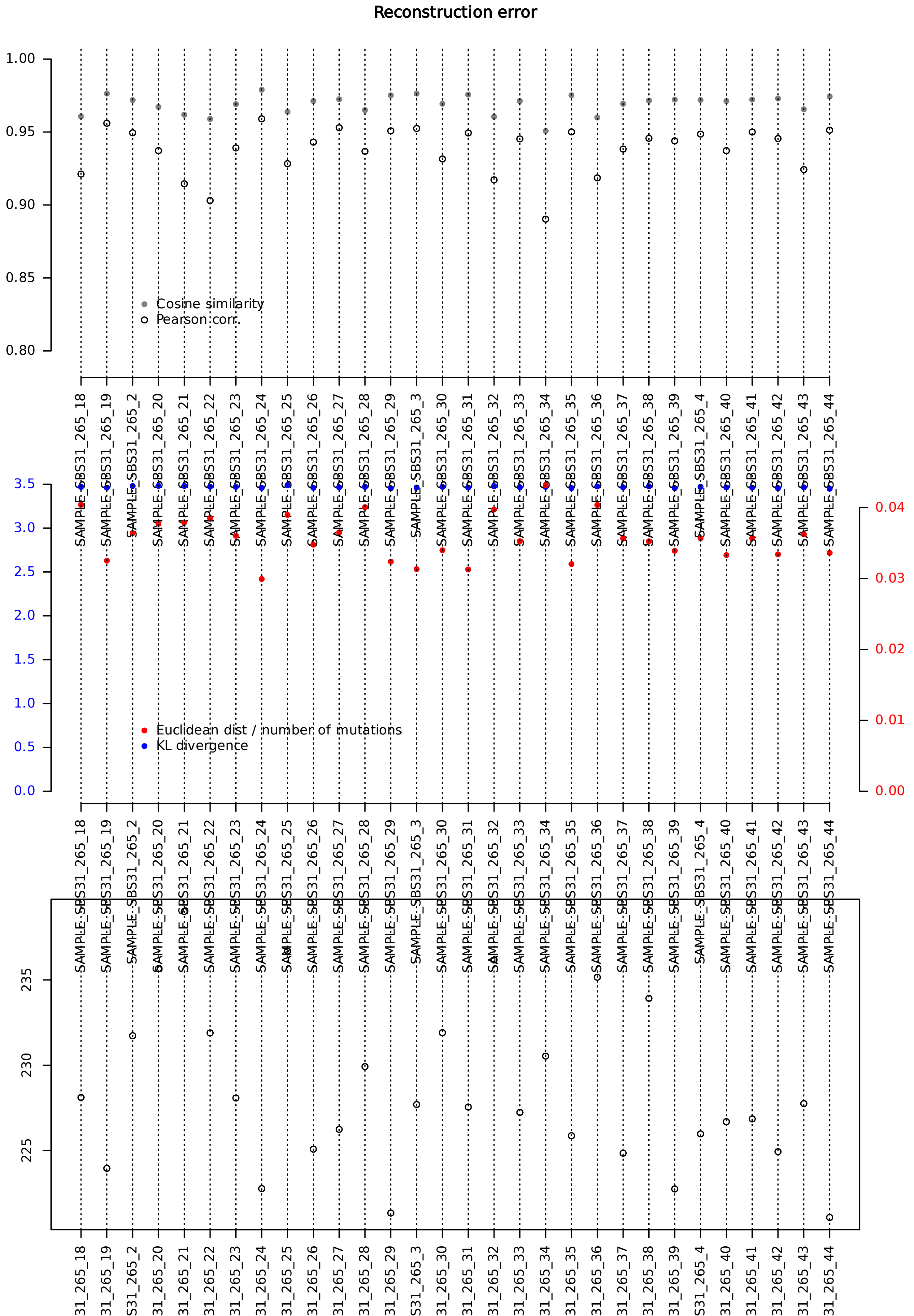
Reconstruction error
1.00
0.95
0.90
0.85
0.80
0.75
0.70
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
270
260
250
240
230
SAMPLE-SBS31_25_90
SAMPLE-SBS31_25_91
SAMPLE-SBS31_25_92
SAMPLE-SBS31_25_93
SAMPLE-SBS31_25_94
SAMPLE-SBS31_25_95
SAMPLE-SBS31_25_96
SAMPLE-SBS31_25_97
SAMPLE-SBS31_25_98
SAMPLE-SBS31_25_99
SAMPLE-SBS31_260_1
SAMPLE-SBS31_260_10
SAMPLE-SBS31_260_100
SAMPLE-SBS31_260_11
SAMPLE-SBS31_260_12
SAMPLE-SBS31_260_13
SAMPLE-SBS31_260_14
SAMPLE-SBS31_260_15
SAMPLE-SBS31_260_16
SAMPLE-SBS31_260_17
SAMPLE-SBS31_260_18
SAMPLE-SBS31_260_19
SAMPLE-SBS31_260_2
SAMPLE-SBS31_260_20
SAMPLE-SBS31_260_21
SAMPLE-SBS31_260_22
SAMPLE-SBS31_260_23
SAMPLE-SBS31_260_24
SAMPLE-SBS31_260_25
SAMPLE-SBS31_260_26

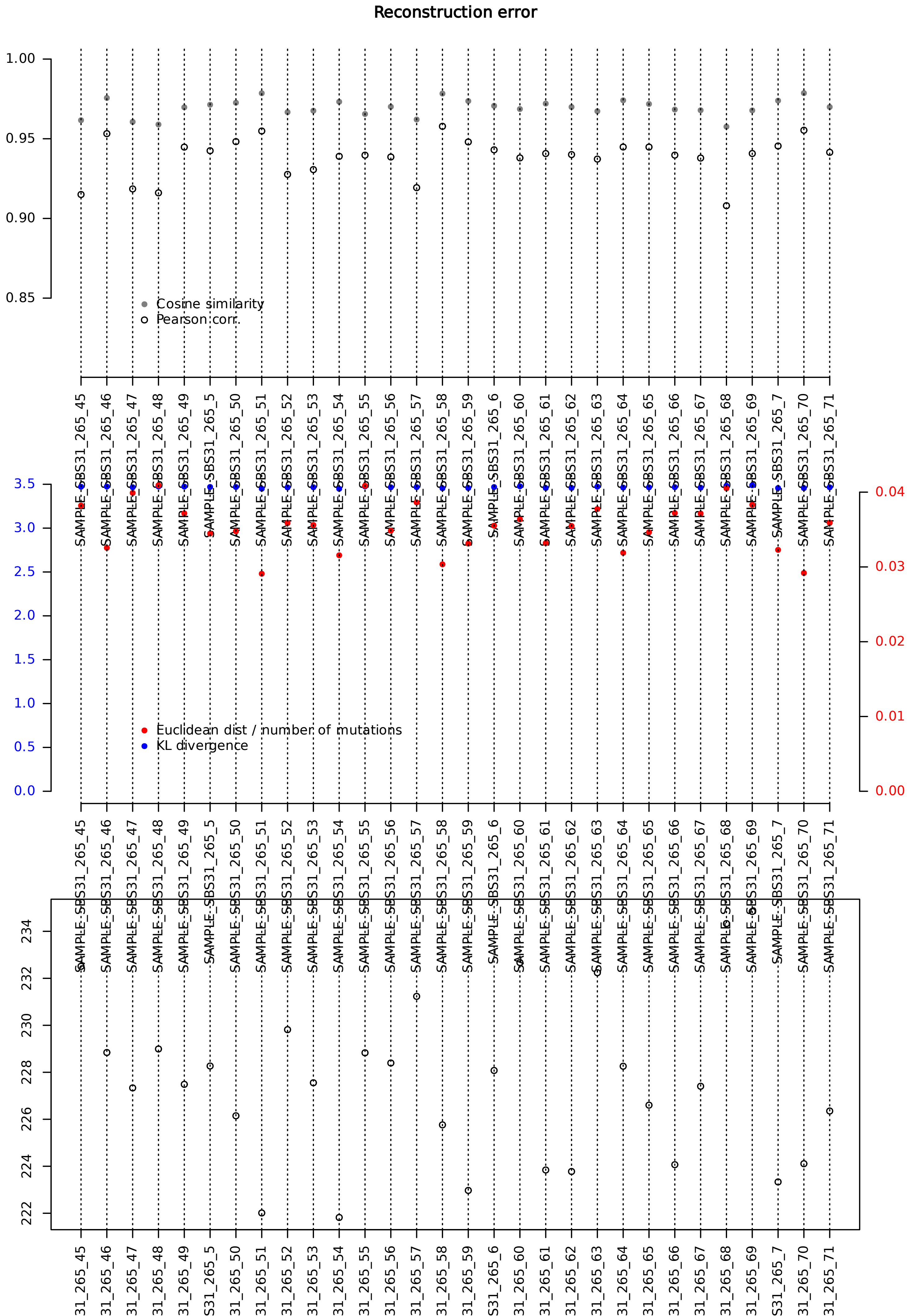


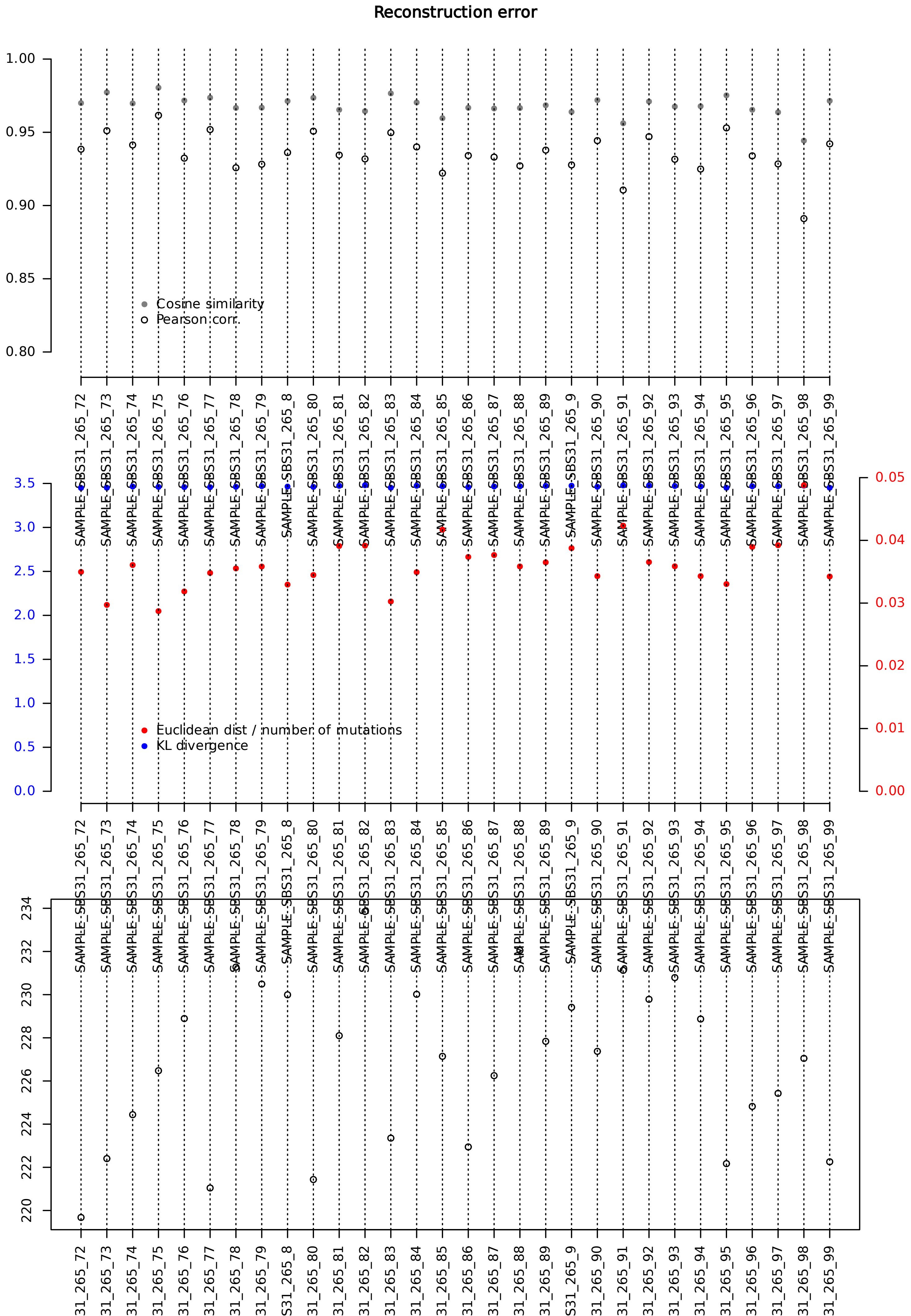
Reconstruction error

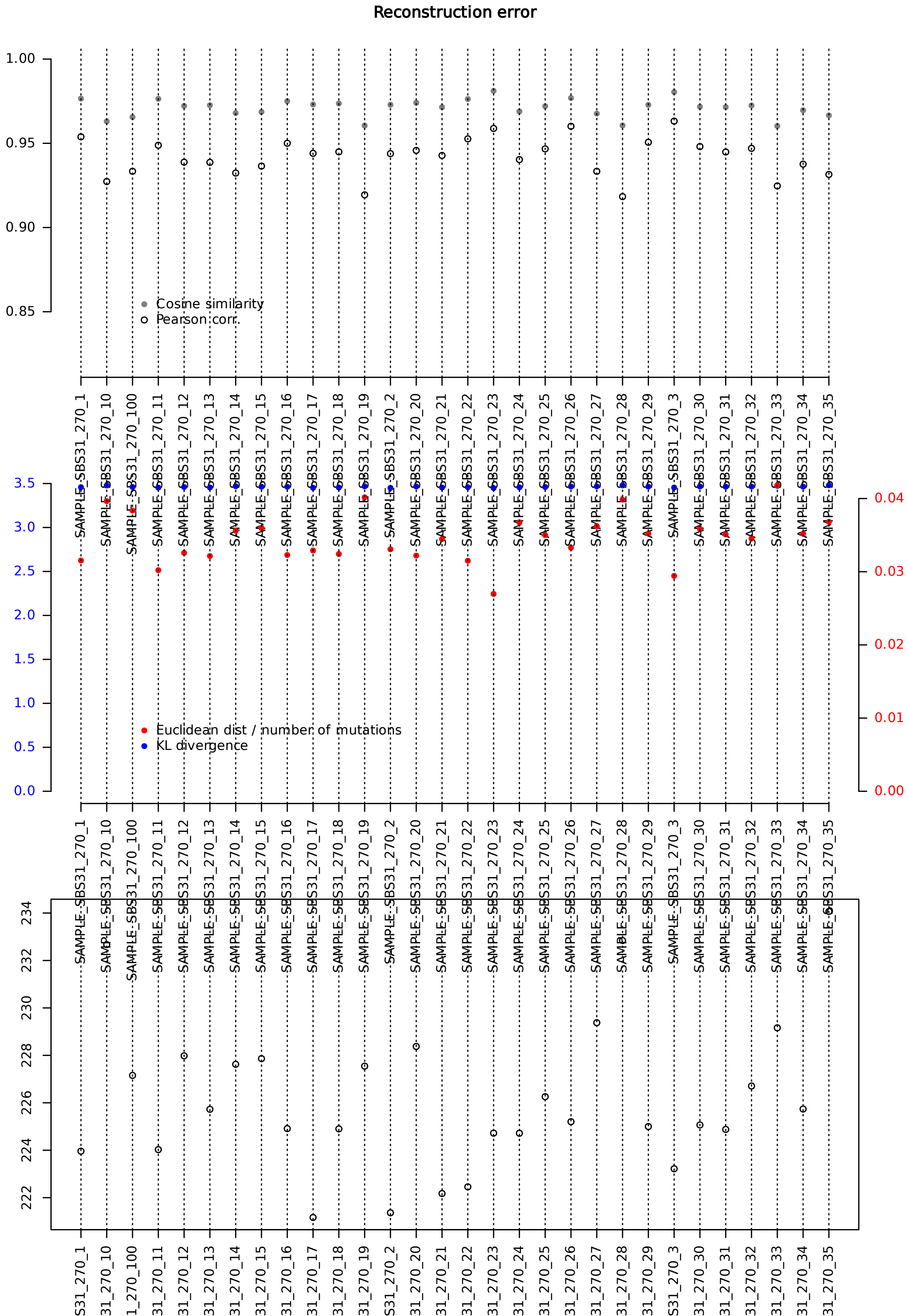

Reconstruction error
1.00
0.95
0.90
0.85
● Cosine similarity
○ Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
● Euclidean dist / number of mutations
● KL divergence
235
230
225
220
SAMPLE-SBS31_260_54
SAMPLE-SBS31_260_55
SAMPLE-SBS31_260_56
SAMPLE-SBS31_260_57
SAMPLE-SBS31_260_58
SAMPLE-SBS31_260_59
SAMPLE-SBS31_260_6
SAMPLE-SBS31_260_60
SAMPLE-SBS31_260_61
SAMPLE-SBS31_260_62
SAMPLE-SBS31_260_63
SAMPLE-SBS31_260_64
SAMPLE-SBS31_260_65
SAMPLE-SBS31_260_66
SAMPLE-SBS31_260_67
SAMPLE-SBS31_260_68
SAMPLE-SBS31_260_69
SAMPLE-SBS31_260_7
SAMPLE-SBS31_260_70
SAMPLE-SBS31_260_71
SAMPLE-SBS31_260_72
SAMPLE-SBS31_260_73
SAMPLE-SBS31_260_74
SAMPLE-SBS31_260_75
SAMPLE-SBS31_260_76
SAMPLE-SBS31_260_77
SAMPLE-SBS31_260_78
SAMPLE-SBS31_260_79
SAMPLE-SBS31_260_8
SAMPLE-SBS31_260_80

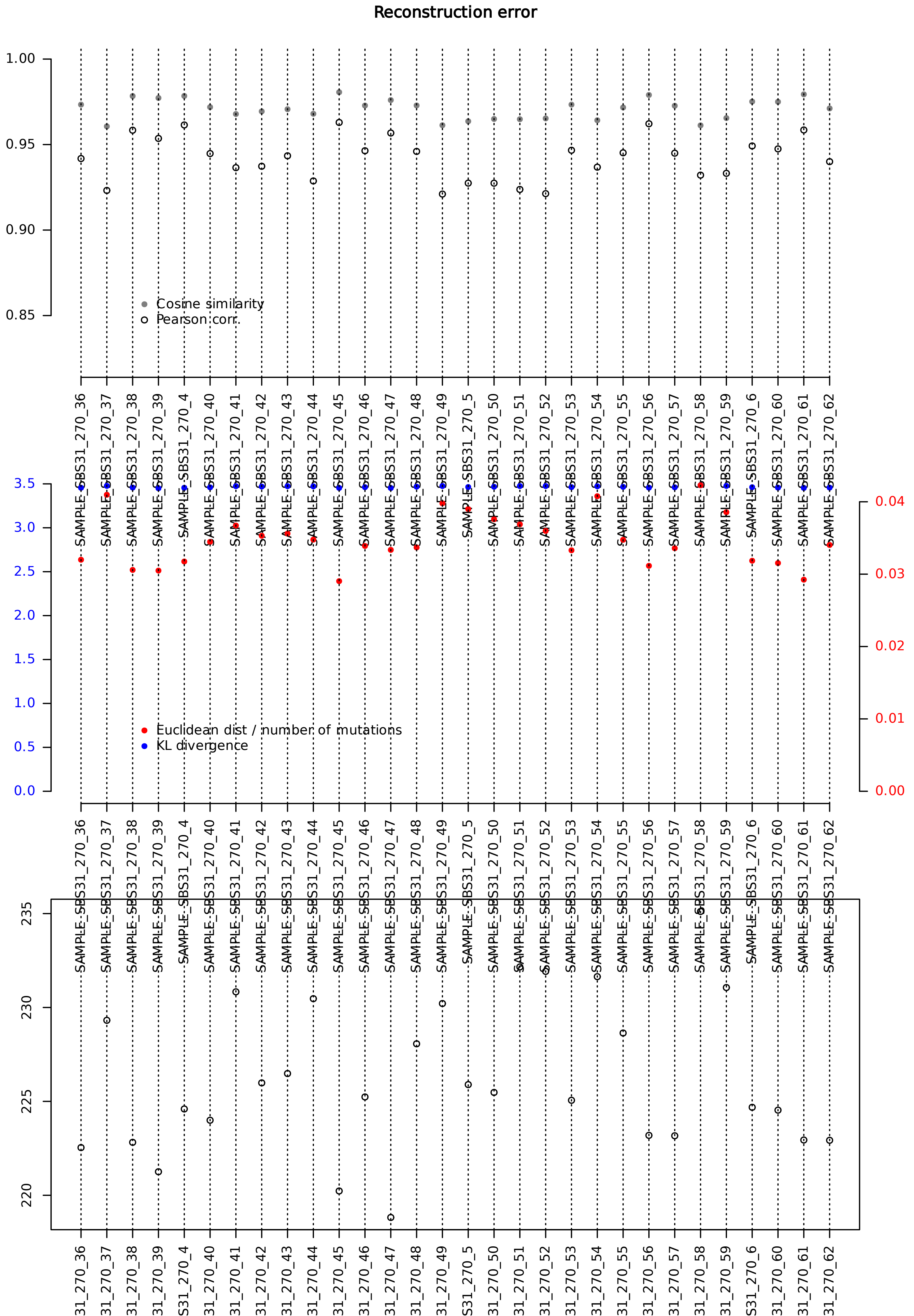

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
SAMPLE-SBS31_260_81
SAMPLE-SBS31_260_82
SAMPLE-SBS31_260_83
SAMPLE-SBS31_260_84
SAMPLE-SBS31_260_85
SAMPLE-SBS31_260_86
SAMPLE-SBS31_260_87
SAMPLE-SBS31_260_88
SAMPLE-SBS31_260_89
SAMPLE-SBS31_260_9
SAMPLE-SBS31_260_90
SAMPLE-SBS31_260_91
SAMPLE-SBS31_260_92
SAMPLE-SBS31_260_93
SAMPLE-SBS31_260_94
SAMPLE-SBS31_260_95
SAMPLE-SBS31_260_96
SAMPLE-SBS31_260_97
SAMPLE-SBS31_260_98
SAMPLE-SBS31_260_99
SAMPLE-SBS31_265_1
SAMPLE-SBS31_265_10
SAMPLE-SBS31_265_100
SAMPLE-SBS31_265_11
SAMPLE-SBS31_265_12
SAMPLE-SBS31_265_13
SAMPLE-SBS31_265_14
SAMPLE-SBS31_265_15
SAMPLE-SBS31_265_16
SAMPLE-SBS31_265_17
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
232
230
228
226
224
222

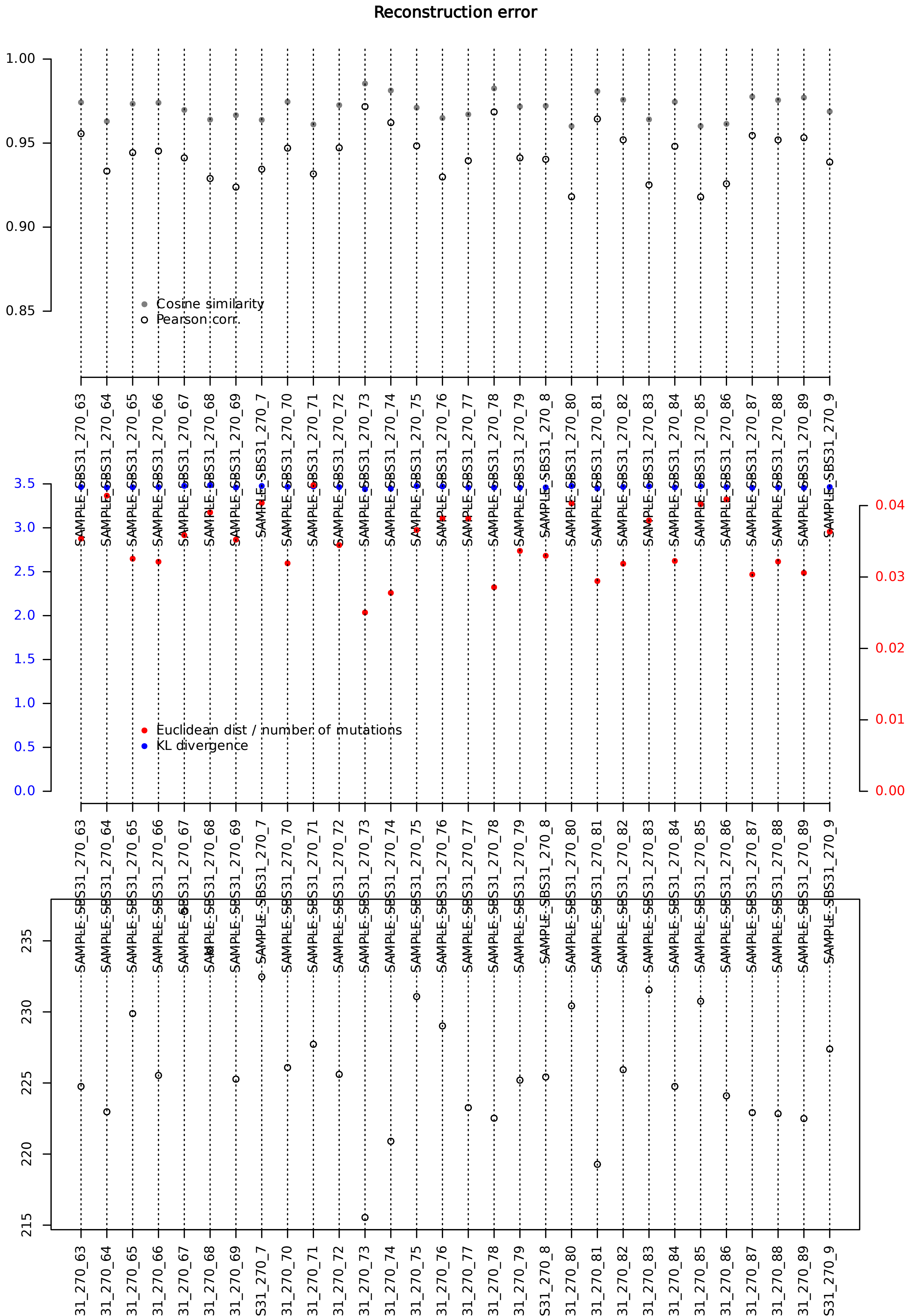

Reconstruction error
1.00
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
SAMPLE-SBS31_265_18
SAMPLE-SBS31_265_19
SAMPLE-SBS31_265_2
SAMPLE-SBS31_265_20
SAMPLE-SBS31_265_21
SAMPLE-SBS31_265_22
SAMPLE-SBS31_265_23
SAMPLE-SBS31_265_24
SAMPLE-SBS31_265_25
SAMPLE-SBS31_265_26
SAMPLE-SBS31_265_27
SAMPLE-SBS31_265_28
SAMPLE-SBS31_265_29
SAMPLE-SBS31_265_3
SAMPLE-SBS31_265_30
SAMPLE-SBS31_265_31
SAMPLE-SBS31_265_32
SAMPLE-SBS31_265_33
SAMPLE-SBS31_265_34
SAMPLE-SBS31_265_35
SAMPLE-SBS31_265_36
SAMPLE-SBS31_265_37
SAMPLE-SBS31_265_38
SAMPLE-SBS31_265_39
SAMPLE-SBS31_265_4
SAMPLE-SBS31_265_40
SAMPLE-SBS31_265_41
SAMPLE-SBS31_265_42
SAMPLE-SBS31_265_43
SAMPLE-SBS31_265_44]

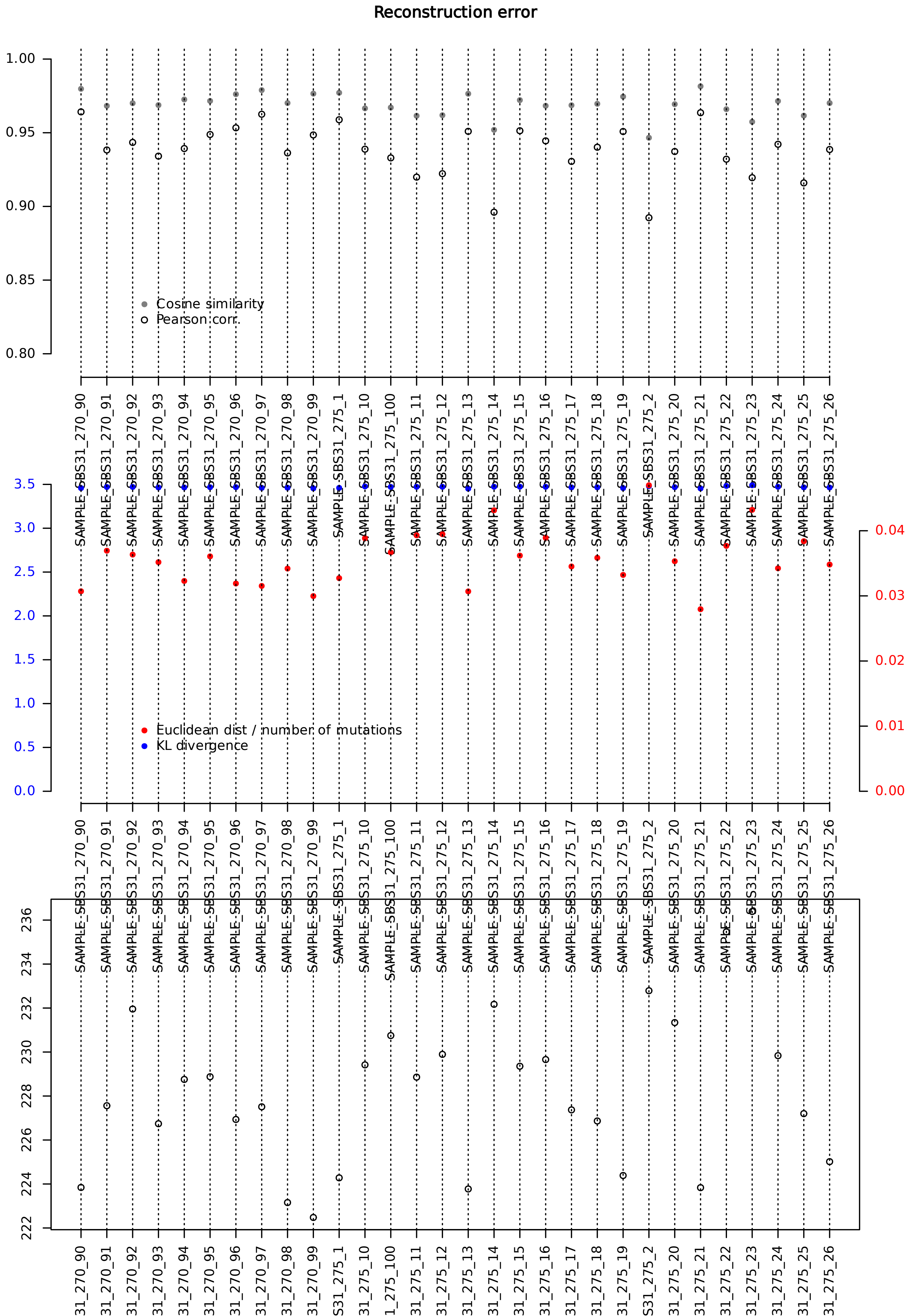

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
234
232
230
228
226
224
222
SAMPLE-SBS31_265_45
SAMPLE-SBS31_265_46
SAMPLE-SBS31_265_47
SAMPLE-SBS31_265_48
SAMPLE-SBS31_265_49
SAMPLE-SBS31_265_5
SAMPLE-SBS31_265_50
SAMPLE-SBS31_265_51
SAMPLE-SBS31_265_52
SAMPLE-SBS31_265_53
SAMPLE-SBS31_265_54
SAMPLE-SBS31_265_55
SAMPLE-SBS31_265_56
SAMPLE-SBS31_265_57
SAMPLE-SBS31_265_58
SAMPLE-SBS31_265_59
SAMPLE-SBS31_265_6
SAMPLE-SBS31_265_60
SAMPLE-SBS31_265_61
SAMPLE-SBS31_265_62
SAMPLE-SBS31_265_63
SAMPLE-SBS31_265_64
SAMPLE-SBS31_265_65
SAMPLE-SBS31_265_66
SAMPLE-SBS31_265_67
SAMPLE-SBS31_265_68
SAMPLE-SBS31_265_69
SAMPLE-SBS31_265_7
SAMPLE-SBS31_265_70
SAMPLE-SBS31_265_71

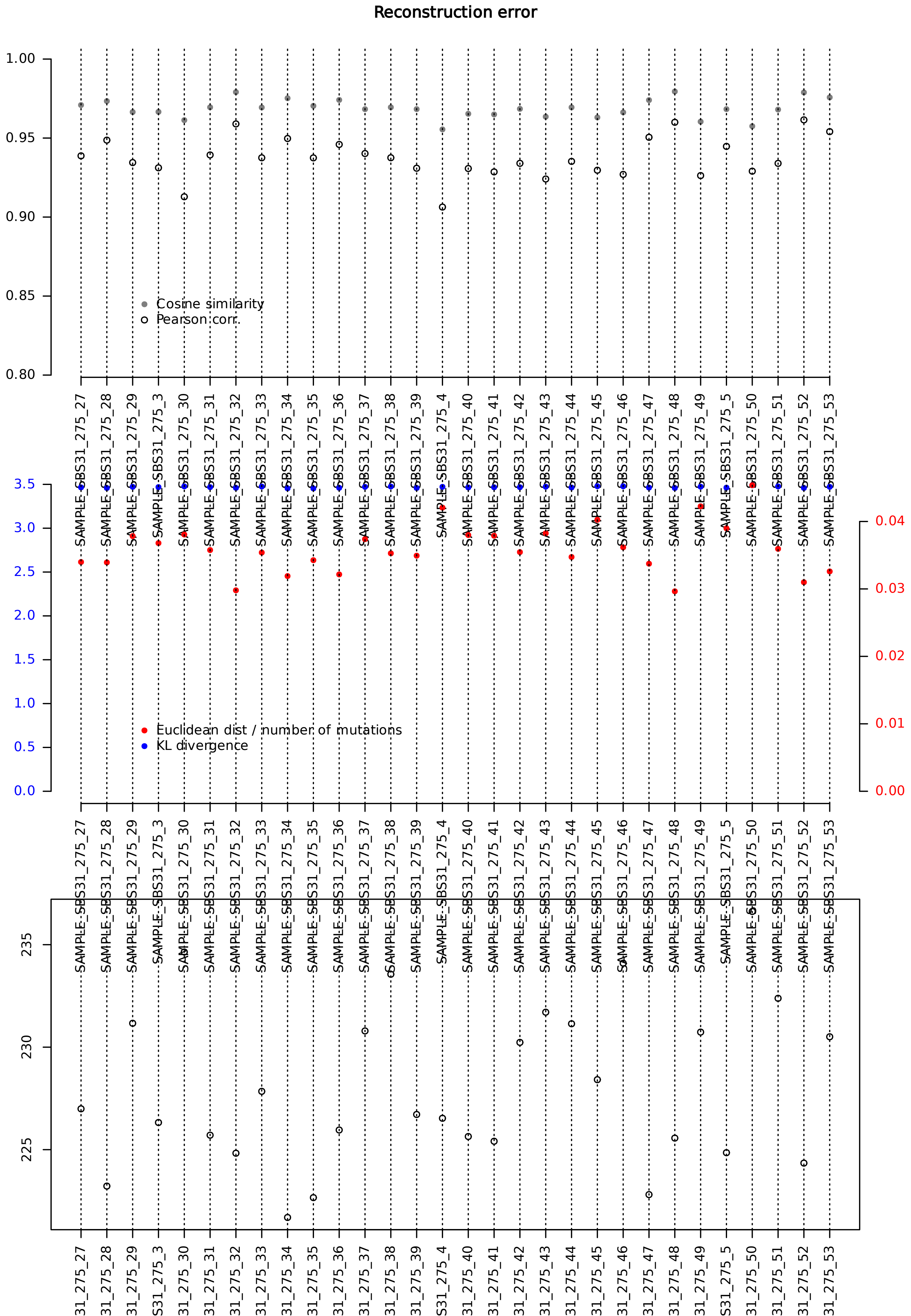

Reconstruction error
1.00
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.05
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
234
232
230
228
226
224
222
220
SAMPLE-SBS31_265_72
SAMPLE-SBS31_265_73
SAMPLE-SBS31_265_74
SAMPLE-SBS31_265_75
SAMPLE-SBS31_265_76
SAMPLE-SBS31_265_77
SAMPLE-SBS31_265_78
SAMPLE-SBS31_265_79
SAMPLE-SBS31_265_8
SAMPLE-SBS31_265_80
SAMPLE-SBS31_265_81
SAMPLE-SBS31_265_82
SAMPLE-SBS31_265_83
SAMPLE-SBS31_265_84
SAMPLE-SBS31_265_85
SAMPLE-SBS31_265_86
SAMPLE-SBS31_265_87
SAMPLE-SBS31_265_88
SAMPLE-SBS31_265_89
SAMPLE-SBS31_265_9
SAMPLE-SBS31_265_90
SAMPLE-SBS31_265_91
SAMPLE-SBS31_265_92
SAMPLE-SBS31_265_93
SAMPLE-SBS31_265_94
SAMPLE-SBS31_265_95
SAMPLE-SBS31_265_96
SAMPLE-SBS31_265_97
SAMPLE-SBS31_265_98
SAMPLE-SBS31_265_99

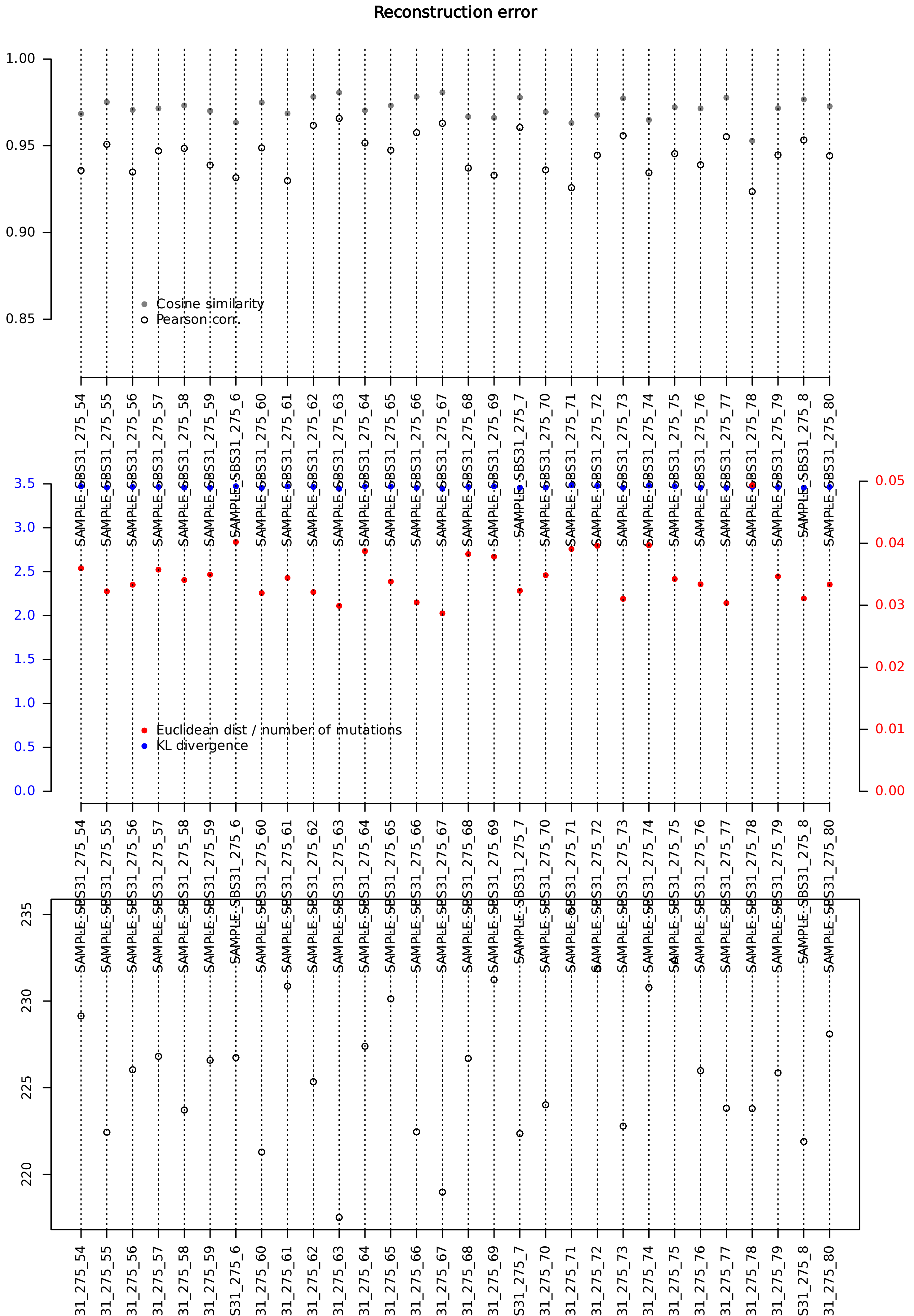

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
234
232
230
228
226
224
222
SAMPLE-SBS31_270_1
SAMPLE-SBS31_270_10
SAMPLE-SBS31_270_100
SAMPLE-SBS31_270_11
SAMPLE-SBS31_270_12
SAMPLE-SBS31_270_13
SAMPLE-SBS31_270_14
SAMPLE-SBS31_270_15
SAMPLE-SBS31_270_16
SAMPLE-SBS31_270_17
SAMPLE-SBS31_270_18
SAMPLE-SBS31_270_19
SAMPLE-SBS31_270_2
SAMPLE-SBS31_270_20
SAMPLE-SBS31_270_21
SAMPLE-SBS31_270_22
SAMPLE-SBS31_270_23
SAMPLE-SBS31_270_24
SAMPLE-SBS31_270_25
SAMPLE-SBS31_270_26
SAMPLE-SBS31_270_27
SAMPLE-SBS31_270_28
SAMPLE-SBS31_270_29
SAMPLE-SBS31_270_3
SAMPLE-SBS31_270_30
SAMPLE-SBS31_270_31
SAMPLE-SBS31_270_32
SAMPLE-SBS31_270_33
SAMPLE-SBS31_270_34
SAMPLE-SBS31_270_35

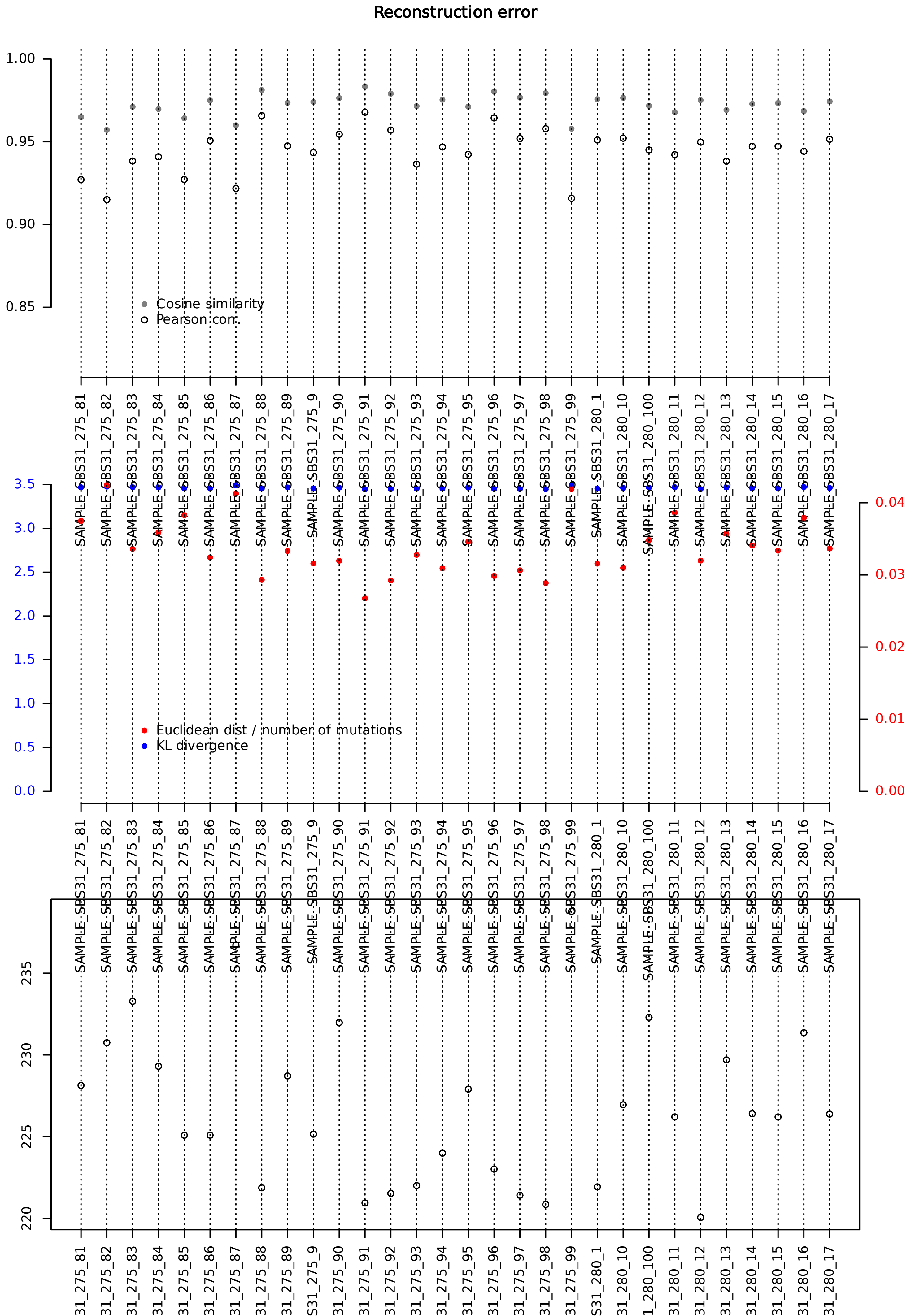

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
SAMPLE-SBS31_270_36
SAMPLE-SBS31_270_37
SAMPLE-SBS31_270_38
SAMPLE-SBS31_270_39
SAMPLE-SBS31_270_4
SAMPLE-SBS31_270_40
SAMPLE-SBS31_270_41
SAMPLE-SBS31_270_42
SAMPLE-SBS31_270_43
SAMPLE-SBS31_270_44
SAMPLE-SBS31_270_45
SAMPLE-SBS31_270_46
SAMPLE-SBS31_270_47
SAMPLE-SBS31_270_48
SAMPLE-SBS31_270_49
SAMPLE-SBS31_270_5
SAMPLE-SBS31_270_50
SAMPLE-SBS31_270_51
SAMPLE-SBS31_270_52
SAMPLE-SBS31_270_53
SAMPLE-SBS31_270_54
SAMPLE-SBS31_270_55
SAMPLE-SBS31_270_56
SAMPLE-SBS31_270_57
SAMPLE-SBS31_270_58
SAMPLE-SBS31_270_59
SAMPLE-SBS31_270_6
SAMPLE-SBS31_270_60
SAMPLE-SBS31_270_61
SAMPLE-SBS31_270_62
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
SAMPLE-SBS31_270_36
SAMPLE-SBS31_270_37
SAMPLE-SBS31_270_38
SAMPLE-SBS31_270_39
SAMPLE-SBS31_270_4
SAMPLE-SBS31_270_40
SAMPLE-SBS31_270_41
SAMPLE-SBS31_270_42
SAMPLE-SBS31_270_43
SAMPLE-SBS31_270_44
SAMPLE-SBS31_270_45
SAMPLE-SBS31_270_46
SAMPLE-SBS31_270_47
SAMPLE-SBS31_270_48
SAMPLE-SBS31_270_49
SAMPLE-SBS31_270_5
SAMPLE-SBS31_270_50
SAMPLE-SBS31_270_51
SAMPLE-SBS31_270_52
SAMPLE-SBS31_270_53
SAMPLE-SBS31_270_54
SAMPLE-SBS31_270_55
SAMPLE-SBS31_270_56
SAMPLE-SBS31_270_57
SAMPLE-SBS31_270_58
SAMPLE-SBS31_270_59
SAMPLE-SBS31_270_6
SAMPLE-SBS31_270_60
SAMPLE-SBS31_270_61
SAMPLE-SBS31_270_62
235
230
225
220
31_270_36
31_270_37
31_270_38
31_270_39
S31_270_4
31_270_40
31_270_41
31_270_42
31_270_43
31_270_44
31_270_45
31_270_46
31_270_47
31_270_48
31_270_49
S31_270_5
31_270_50
31_270_51
31_270_52
31_270_53
31_270_54
31_270_55
31_270_56
31_270_57
31_270_58
31_270_59
S31_270_6
31_270_60
31_270_61
31_270_62

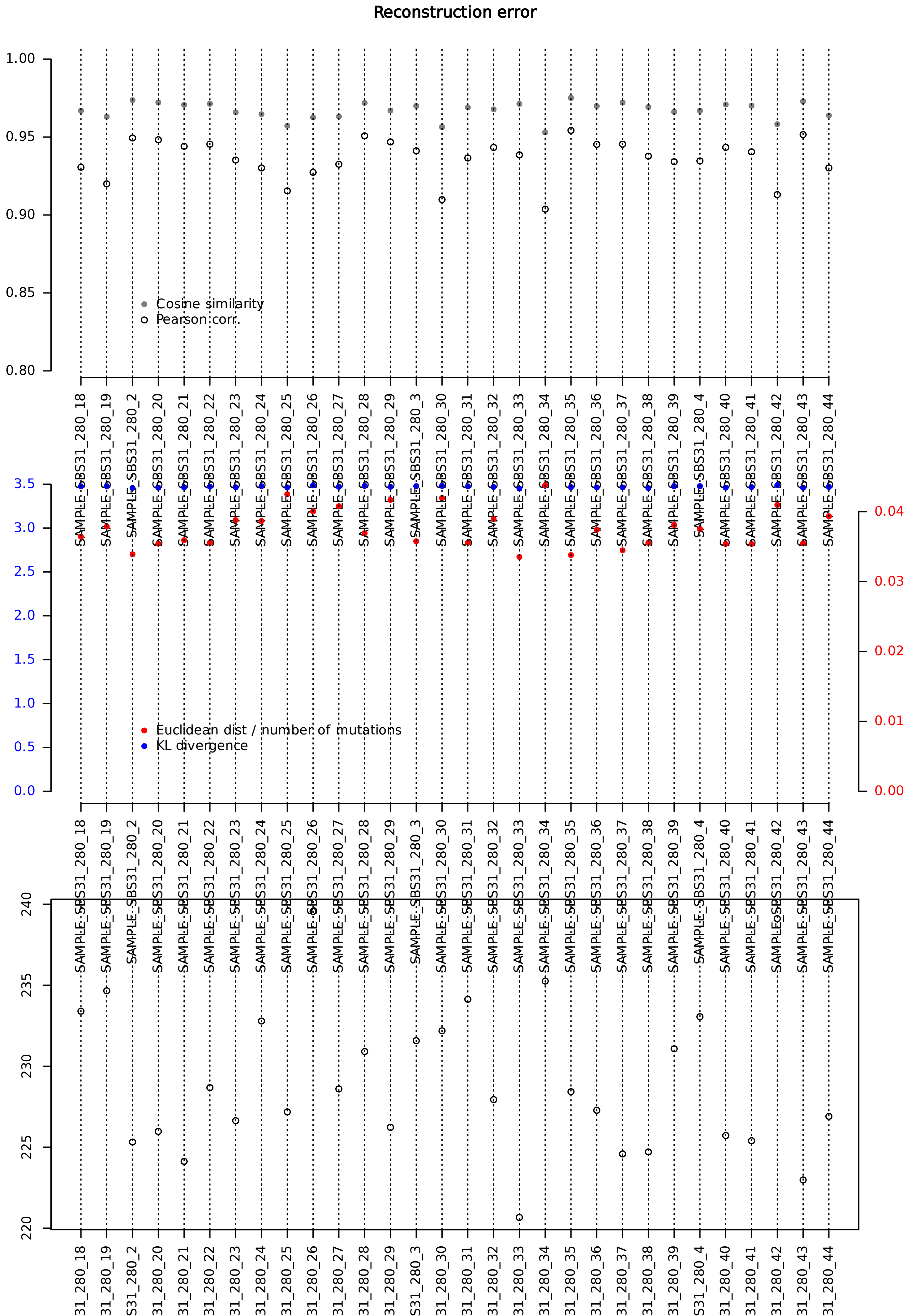

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
220
215
SAMPLE-SBS31_270_63
SAMPLE-SBS31_270_64
SAMPLE-SBS31_270_65
SAMPLE-SBS31_270_66
SAMPLE-SBS31_270_67
SAMPLE-SBS31_270_68
SAMPLE-SBS31_270_69
SAMPLE-SBS31_270_7
SAMPLE-SBS31_270_70
SAMPLE-SBS31_270_71
SAMPLE-SBS31_270_72
SAMPLE-SBS31_270_73
SAMPLE-SBS31_270_74
SAMPLE-SBS31_270_75
SAMPLE-SBS31_270_76
SAMPLE-SBS31_270_77
SAMPLE-SBS31_270_78
SAMPLE-SBS31_270_79
SAMPLE-SBS31_270_8
SAMPLE-SBS31_270_80
SAMPLE-SBS31_270_81
SAMPLE-SBS31_270_82
SAMPLE-SBS31_270_83
SAMPLE-SBS31_270_84
SAMPLE-SBS31_270_85
SAMPLE-SBS31_270_86
SAMPLE-SBS31_270_87
SAMPLE-SBS31_270_88
SAMPLE-SBS31_270_89
SAMPLE-SBS31_270_9


Reconstruction error
1.00
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
236
234
232
230
228
226
224
222
SAMPLE-SBS31_270_90
SAMPLE-SBS31_270_91
SAMPLE-SBS31_270_92
SAMPLE-SBS31_270_93
SAMPLE-SBS31_270_94
SAMPLE-SBS31_270_95
SAMPLE-SBS31_270_96
SAMPLE-SBS31_270_97
SAMPLE-SBS31_270_98
SAMPLE-SBS31_270_99
SAMPLE-SBS31_275_1
SAMPLE-SBS31_275_10
SAMPLE-SBS31_275_100
SAMPLE-SBS31_275_11
SAMPLE-SBS31_275_12
SAMPLE-SBS31_275_13
SAMPLE-SBS31_275_14
SAMPLE-SBS31_275_15
SAMPLE-SBS31_275_16
SAMPLE-SBS31_275_17
SAMPLE-SBS31_275_18
SAMPLE-SBS31_275_19
SAMPLE-SBS31_275_2
SAMPLE-SBS31_275_20
SAMPLE-SBS31_275_21
SAMPLE-SBS31_275_22
SAMPLE-SBS31_275_23
SAMPLE-SBS31_275_24
SAMPLE-SBS31_275_25
SAMPLE-SBS31_275_26


Reconstruction error
1.00
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
SAMPLE-SBS31_275_27
SAMPLE-SBS31_275_28
SAMPLE-SBS31_275_29
SAMPLE-SBS31_275_3
SAMPLE-SBS31_275_30
SAMPLE-SBS31_275_31
SAMPLE-SBS31_275_32
SAMPLE-SBS31_275_33
SAMPLE-SBS31_275_34
SAMPLE-SBS31_275_35
SAMPLE-SBS31_275_36
SAMPLE-SBS31_275_37
SAMPLE-SBS31_275_38
SAMPLE-SBS31_275_39
SAMPLE-SBS31_275_4
SAMPLE-SBS31_275_40
SAMPLE-SBS31_275_41
SAMPLE-SBS31_275_42
SAMPLE-SBS31_275_43
SAMPLE-SBS31_275_44
SAMPLE-SBS31_275_45
SAMPLE-SBS31_275_46
SAMPLE-SBS31_275_47
SAMPLE-SBS31_275_48
SAMPLE-SBS31_275_49
SAMPLE-SBS31_275_5
SAMPLE-SBS31_275_50
SAMPLE-SBS31_275_51
SAMPLE-SBS31_275_52
SAMPLE-SBS31_275_53


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.05
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
220
SAMPLE-SBS31_275_54
SAMPLE-SBS31_275_55
SAMPLE-SBS31_275_56
SAMPLE-SBS31_275_57
SAMPLE-SBS31_275_58
SAMPLE-SBS31_275_59
SAMPLE-SBS31_275_6
SAMPLE-SBS31_275_60
SAMPLE-SBS31_275_61
SAMPLE-SBS31_275_62
SAMPLE-SBS31_275_63
SAMPLE-SBS31_275_64
SAMPLE-SBS31_275_65
SAMPLE-SBS31_275_66
SAMPLE-SBS31_275_67
SAMPLE-SBS31_275_68
SAMPLE-SBS31_275_69
SAMPLE-SBS31_275_7
SAMPLE-SBS31_275_70
SAMPLE-SBS31_275_71
SAMPLE-SBS31_275_72
SAMPLE-SBS31_275_73
SAMPLE-SBS31_275_74
SAMPLE-SBS31_275_75
SAMPLE-SBS31_275_76
SAMPLE-SBS31_275_77
SAMPLE-SBS31_275_78
SAMPLE-SBS31_275_79
SAMPLE-SBS31_275_8
SAMPLE-SBS31_275_80


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
SAMPLE-SBS31_275_81
SAMPLE-SBS31_275_82
SAMPLE-SBS31_275_83
SAMPLE-SBS31_275_84
SAMPLE-SBS31_275_85
SAMPLE-SBS31_275_86
SAMPLE-SBS31_275_87
SAMPLE-SBS31_275_88
SAMPLE-SBS31_275_89
SAMPLE-SBS31_275_9
SAMPLE-SBS31_275_90
SAMPLE-SBS31_275_91
SAMPLE-SBS31_275_92
SAMPLE-SBS31_275_93
SAMPLE-SBS31_275_94
SAMPLE-SBS31_275_95
SAMPLE-SBS31_275_96
SAMPLE-SBS31_275_97
SAMPLE-SBS31_275_98
SAMPLE-SBS31_275_99
SAMPLE-SBS31_280_1
SAMPLE-SBS31_280_10
SAMPLE-SBS31_280_100
SAMPLE-SBS31_280_11
SAMPLE-SBS31_280_12
SAMPLE-SBS31_280_13
SAMPLE-SBS31_280_14
SAMPLE-SBS31_280_15
SAMPLE-SBS31_280_16
SAMPLE-SBS31_280_17
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
220


Reconstruction error
1.00
0.95
0.90
0.85
0.80
● Cosine similarity
○ Pearson corr.
SAMPLE-SBS31_280_18
SAMPLE-SBS31_280_19
SAMPLE-SBS31_280_2
SAMPLE-SBS31_280_20
SAMPLE-SBS31_280_21
SAMPLE-SBS31_280_22
SAMPLE-SBS31_280_23
SAMPLE-SBS31_280_24
SAMPLE-SBS31_280_25
SAMPLE-SBS31_280_26
SAMPLE-SBS31_280_27
SAMPLE-SBS31_280_28
SAMPLE-SBS31_280_29
SAMPLE-SBS31_280_3
SAMPLE-SBS31_280_30
SAMPLE-SBS31_280_31
SAMPLE-SBS31_280_32
SAMPLE-SBS31_280_33
SAMPLE-SBS31_280_34
SAMPLE-SBS31_280_35
SAMPLE-SBS31_280_36
SAMPLE-SBS31_280_37
SAMPLE-SBS31_280_38
SAMPLE-SBS31_280_39
SAMPLE-SBS31_280_4
SAMPLE-SBS31_280_40
SAMPLE-SBS31_280_41
SAMPLE-SBS31_280_42
SAMPLE-SBS31_280_43
SAMPLE-SBS31_280_44
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
● Euclidean dist / number of mutations
● KL divergence
240
235
230
225
220
31_280_18
31_280_19
S31_280_2
31_280_20
31_280_21
31_280_22
31_280_23
31_280_24
31_280_25
31_280_26
31_280_27
31_280_28
31_280_29
S31_280_3
31_280_30
31_280_31
31_280_32
31_280_33
31_280_34
31_280_35
31_280_36
31_280_37
31_280_38
31_280_39
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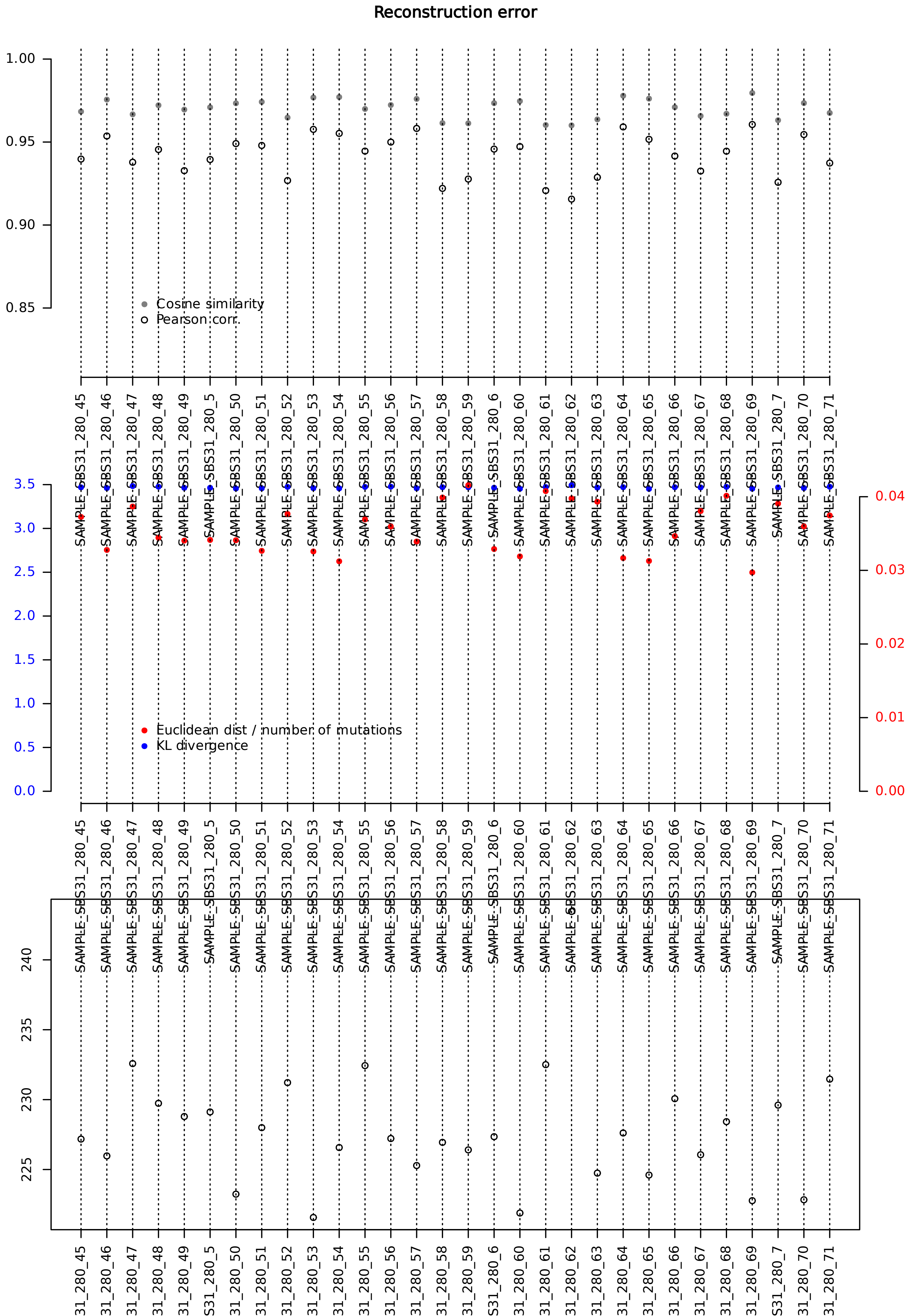
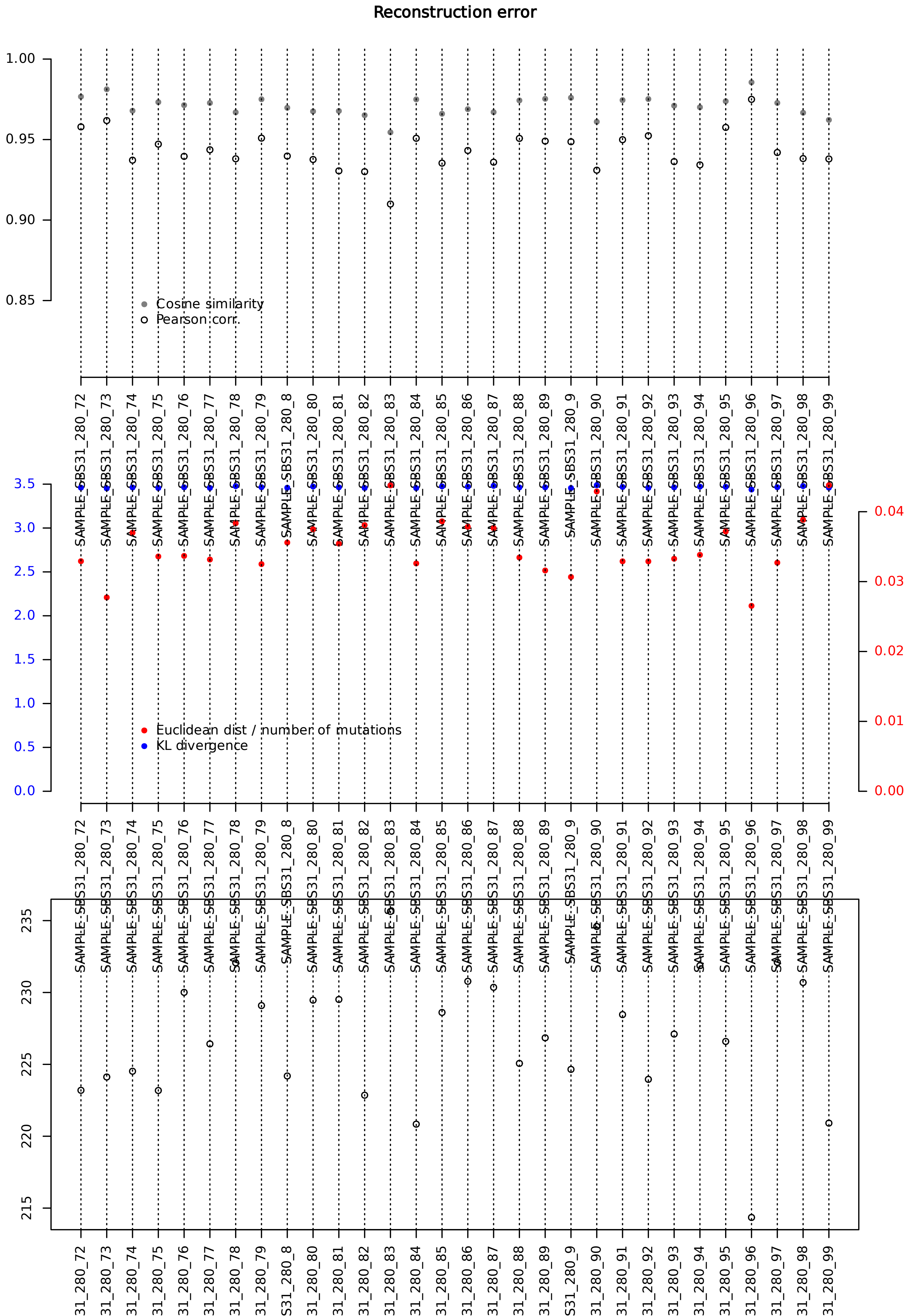
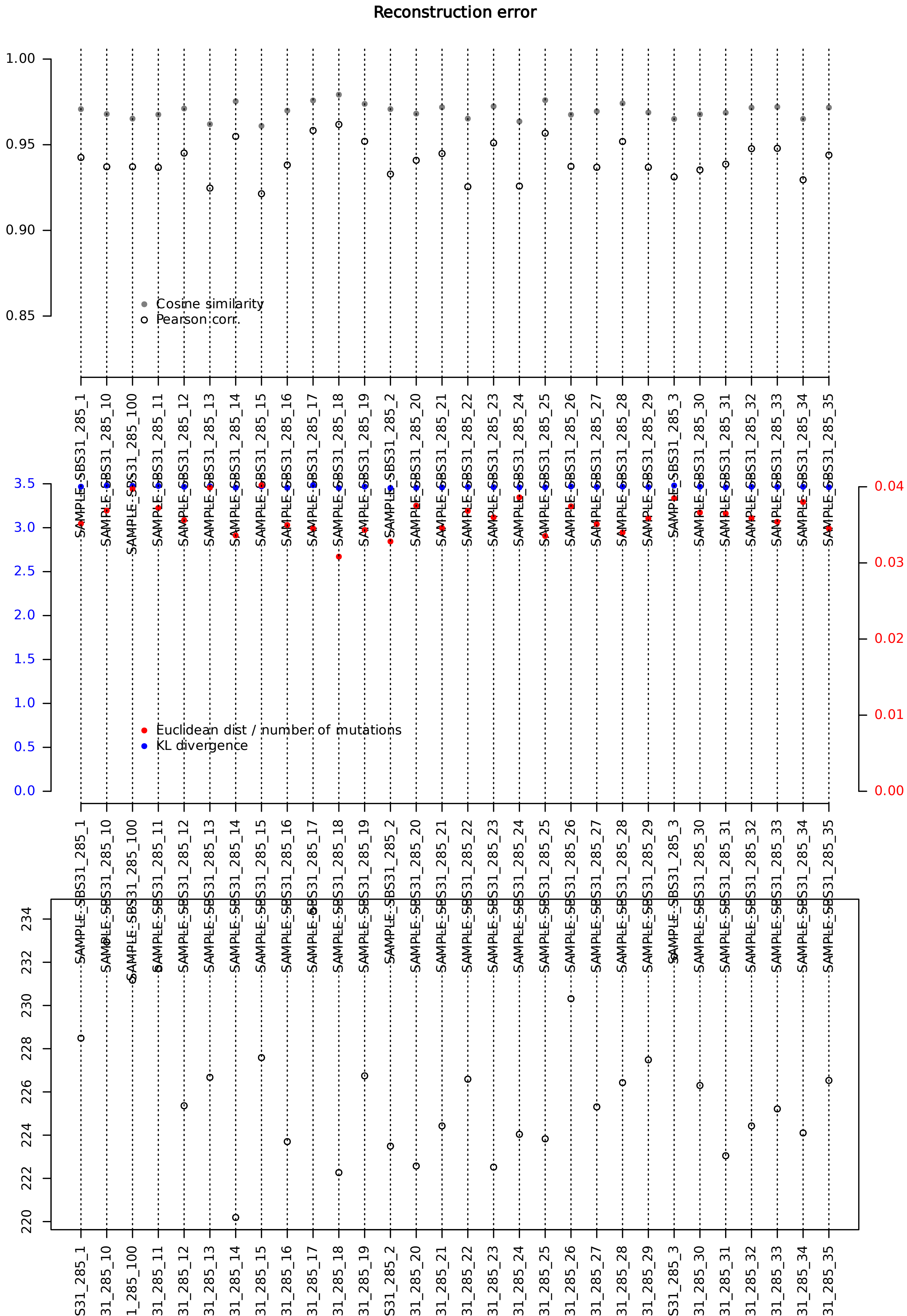
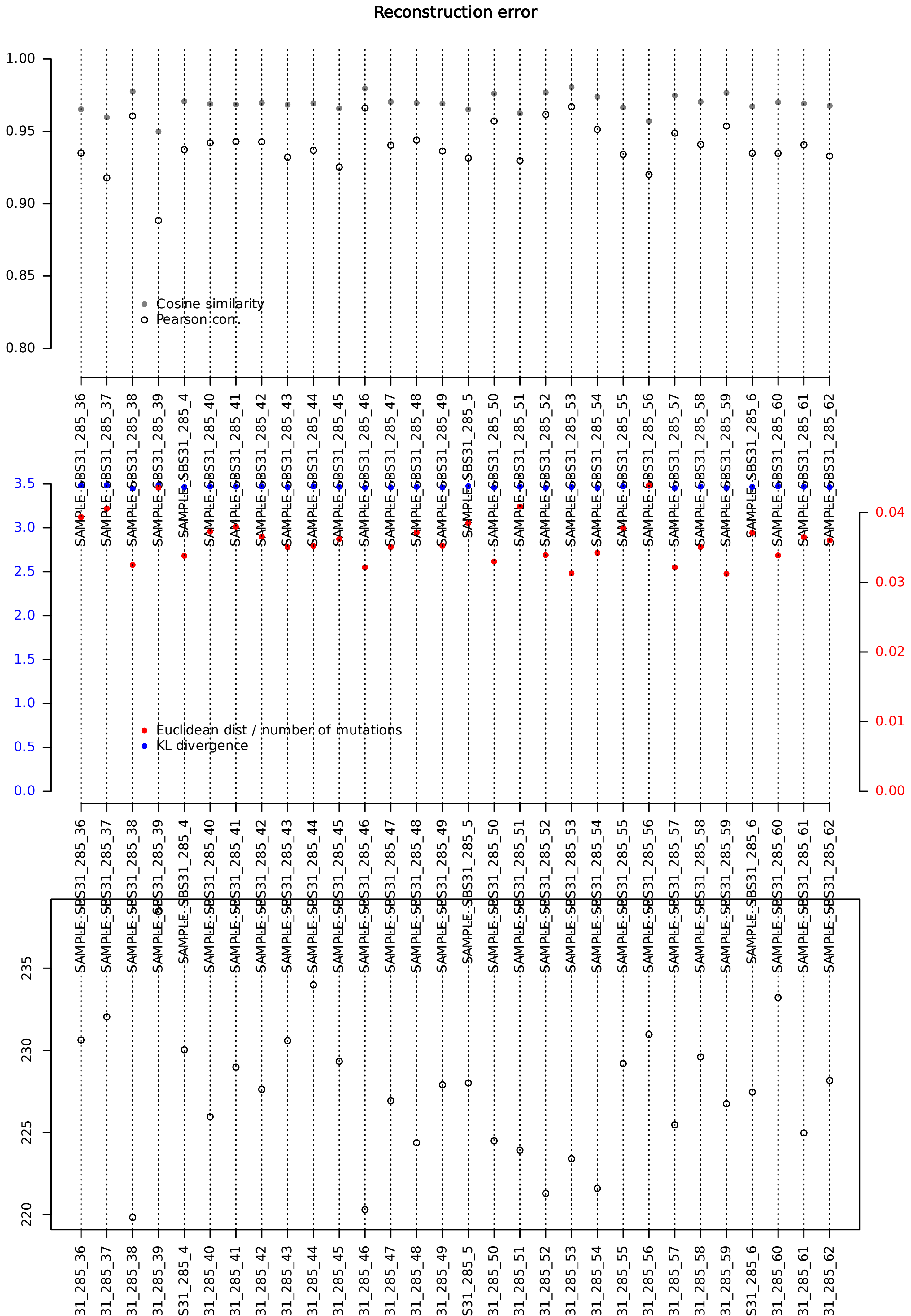
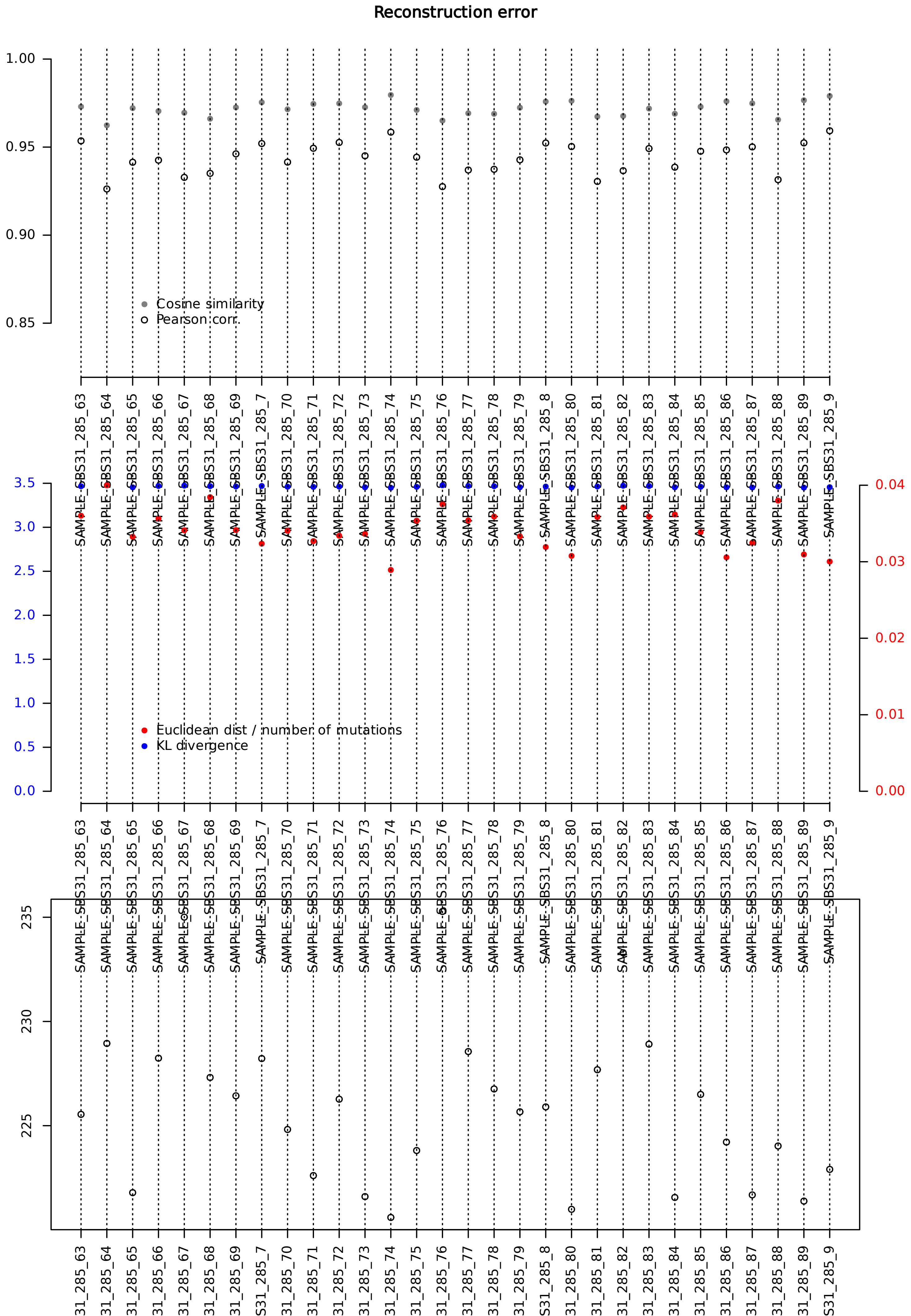
31_280_43
31_280_44

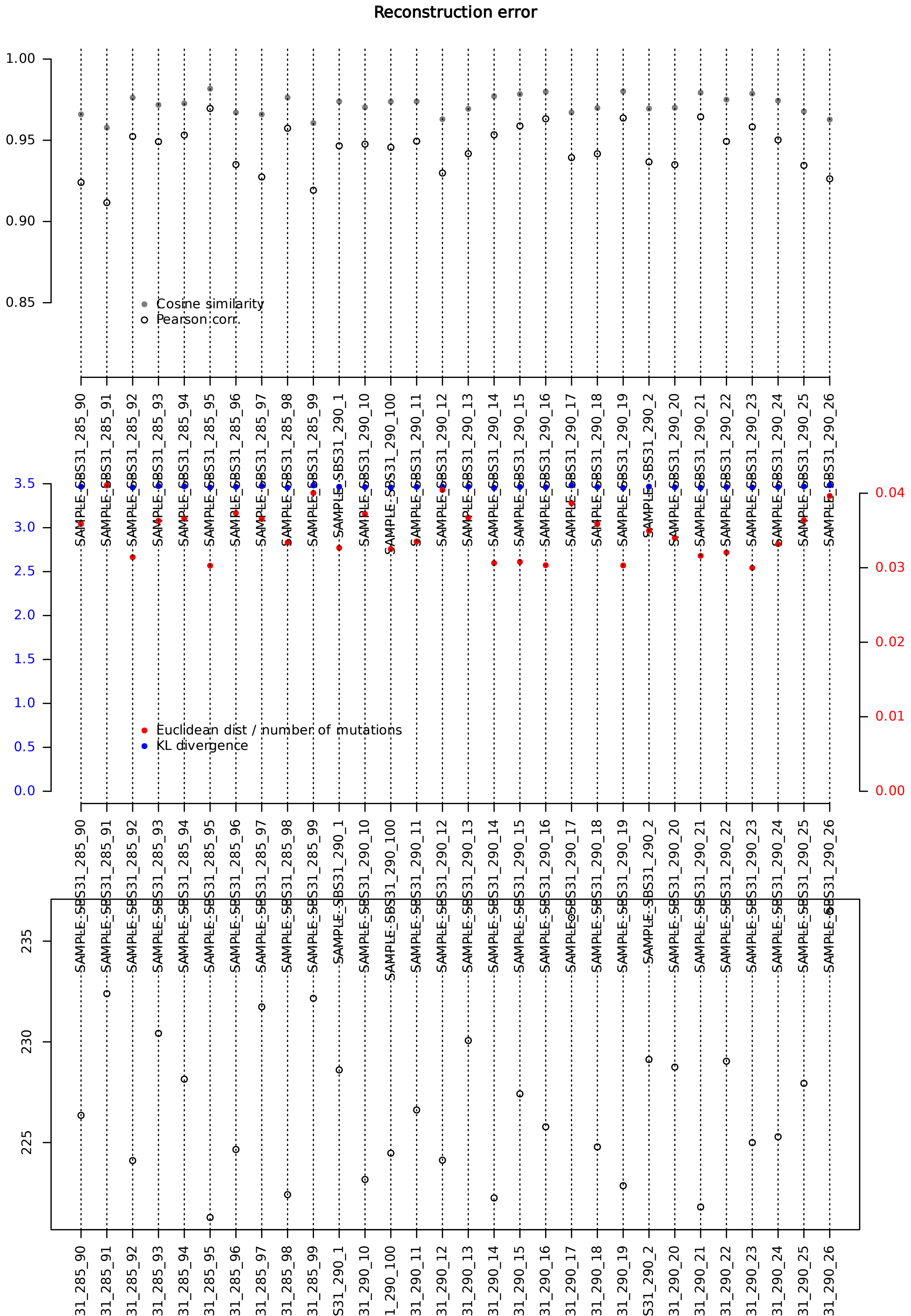

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
240
235
230
225
SAMPLE-SBS31_280_45
SAMPLE-SBS31_280_46
SAMPLE-SBS31_280_47
SAMPLE-SBS31_280_48
SAMPLE-SBS31_280_49
SAMPLE-SBS31_280_5
SAMPLE-SBS31_280_50
SAMPLE-SBS31_280_51
SAMPLE-SBS31_280_52
SAMPLE-SBS31_280_53
SAMPLE-SBS31_280_54
SAMPLE-SBS31_280_55
SAMPLE-SBS31_280_56
SAMPLE-SBS31_280_57
SAMPLE-SBS31_280_58
SAMPLE-SBS31_280_59
SAMPLE-SBS31_280_6
SAMPLE-SBS31_280_60
SAMPLE-SBS31_280_61
SAMPLE-SBS31_280_62
SAMPLE-SBS31_280_63
SAMPLE-SBS31_280_64
SAMPLE-SBS31_280_65
SAMPLE-SBS31_280_66
SAMPLE-SBS31_280_67
SAMPLE-SBS31_280_68
SAMPLE-SBS31_280_69
SAMPLE-SBS31_280_7
SAMPLE-SBS31_280_70
SAMPLE-SBS31_280_71

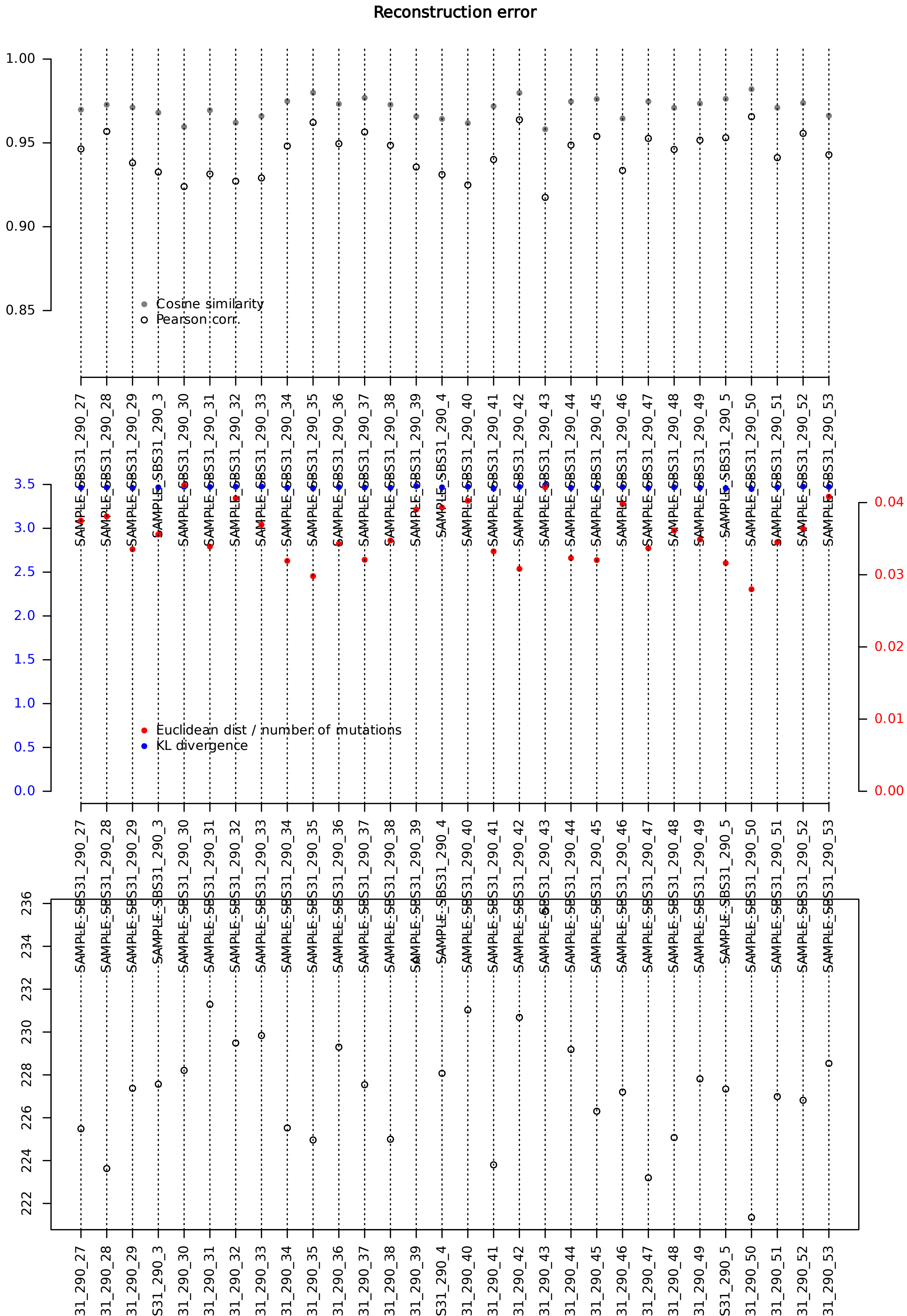

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
SAMPLE-SBS31_280_72
SAMPLE-SBS31_280_73
SAMPLE-SBS31_280_74
SAMPLE-SBS31_280_75
SAMPLE-SBS31_280_76
SAMPLE-SBS31_280_77
SAMPLE-SBS31_280_78
SAMPLE-SBS31_280_79
SAMPLE-SBS31_280_8
SAMPLE-SBS31_280_80
SAMPLE-SBS31_280_81
SAMPLE-SBS31_280_82
SAMPLE-SBS31_280_83
SAMPLE-SBS31_280_84
SAMPLE-SBS31_280_85
SAMPLE-SBS31_280_86
SAMPLE-SBS31_280_87
SAMPLE-SBS31_280_88
SAMPLE-SBS31_280_89
SAMPLE-SBS31_280_9
SAMPLE-SBS31_280_90
SAMPLE-SBS31_280_91
SAMPLE-SBS31_280_92
SAMPLE-SBS31_280_93
SAMPLE-SBS31_280_94
SAMPLE-SBS31_280_95
SAMPLE-SBS31_280_96
SAMPLE-SBS31_280_97
SAMPLE-SBS31_280_98
SAMPLE-SBS31_280_99
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
220
215

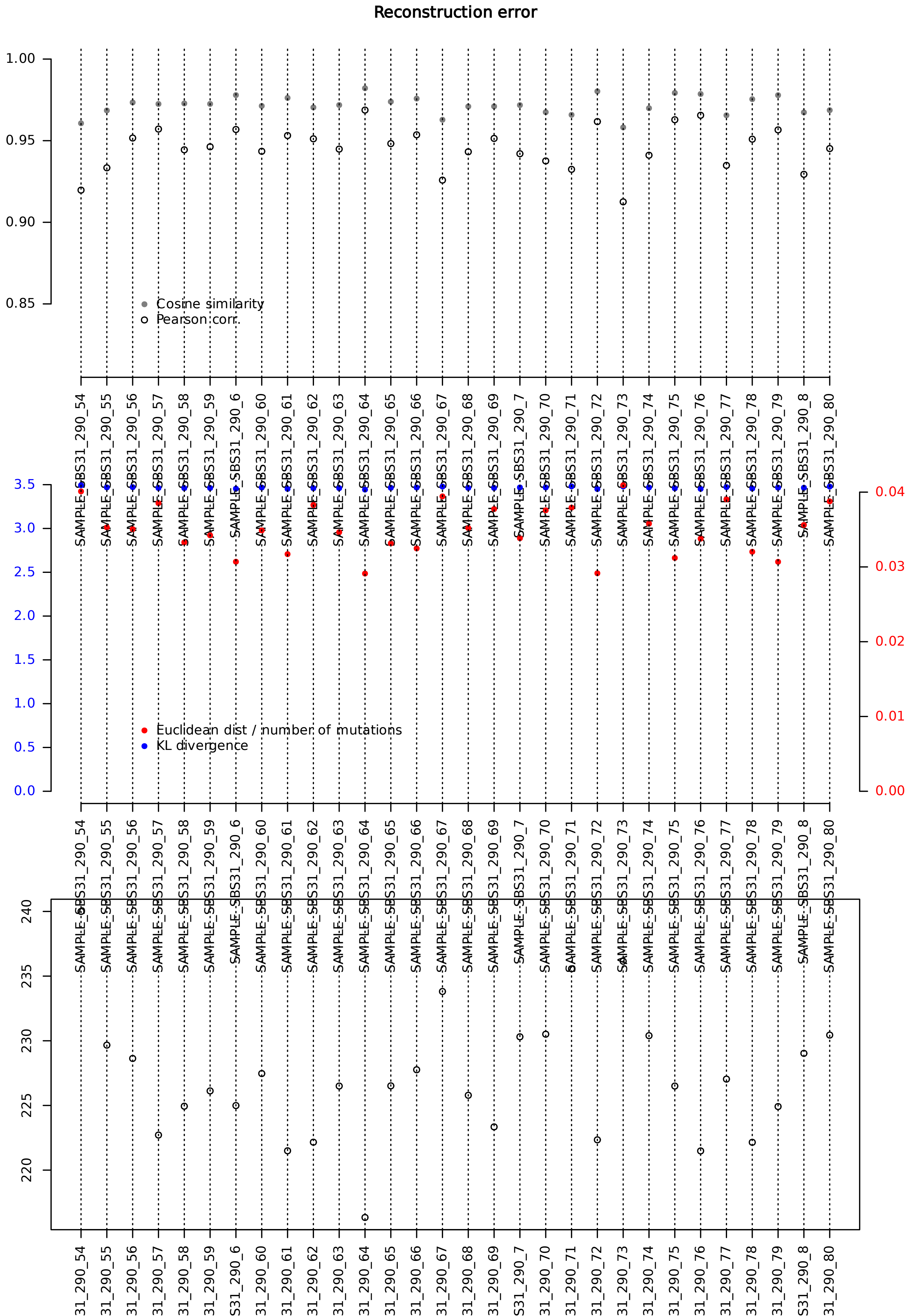

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
SAMPLE-SBS31_285_1
SAMPLE-SBS31_285_10
SAMPLE-SBS31_285_100
SAMPLE-SBS31_285_11
SAMPLE-SBS31_285_12
SAMPLE-SBS31_285_13
SAMPLE-SBS31_285_14
SAMPLE-SBS31_285_15
SAMPLE-SBS31_285_16
SAMPLE-SBS31_285_17
SAMPLE-SBS31_285_18
SAMPLE-SBS31_285_19
SAMPLE-SBS31_285_2
SAMPLE-SBS31_285_20
SAMPLE-SBS31_285_21
SAMPLE-SBS31_285_22
SAMPLE-SBS31_285_23
SAMPLE-SBS31_285_24
SAMPLE-SBS31_285_25
SAMPLE-SBS31_285_26
SAMPLE-SBS31_285_27
SAMPLE-SBS31_285_28
SAMPLE-SBS31_285_29
SAMPLE-SBS31_285_3
SAMPLE-SBS31_285_30
SAMPLE-SBS31_285_31
SAMPLE-SBS31_285_32
SAMPLE-SBS31_285_33
SAMPLE-SBS31_285_34
SAMPLE-SBS31_285_35
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
234
232
230
228
226
224
222
220

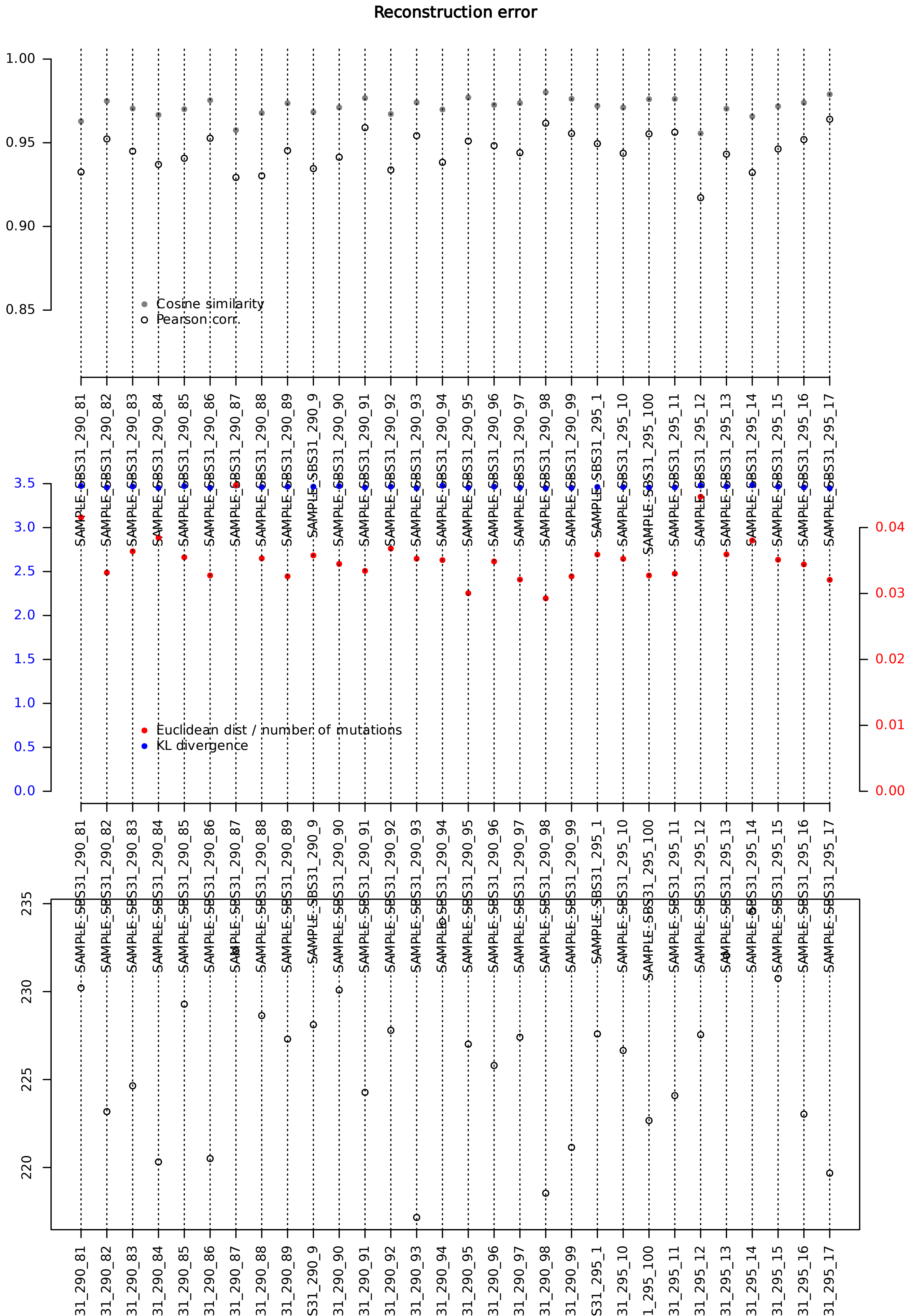

Reconstruction error
1.00
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
SAMPLE-SBS31_285_36
SAMPLE-SBS31_285_37
SAMPLE-SBS31_285_38
SAMPLE-SBS31_285_39
SAMPLE-SBS31_285_4
SAMPLE-SBS31_285_40
SAMPLE-SBS31_285_41
SAMPLE-SBS31_285_42
SAMPLE-SBS31_285_43
SAMPLE-SBS31_285_44
SAMPLE-SBS31_285_45
SAMPLE-SBS31_285_46
SAMPLE-SBS31_285_47
SAMPLE-SBS31_285_48
SAMPLE-SBS31_285_49
SAMPLE-SBS31_285_5
SAMPLE-SBS31_285_50
SAMPLE-SBS31_285_51
SAMPLE-SBS31_285_52
SAMPLE-SBS31_285_53
SAMPLE-SBS31_285_54
SAMPLE-SBS31_285_55
SAMPLE-SBS31_285_56
SAMPLE-SBS31_285_57
SAMPLE-SBS31_285_58
SAMPLE-SBS31_285_59
SAMPLE-SBS31_285_6
SAMPLE-SBS31_285_60
SAMPLE-SBS31_285_61
SAMPLE-SBS31_285_62
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
220

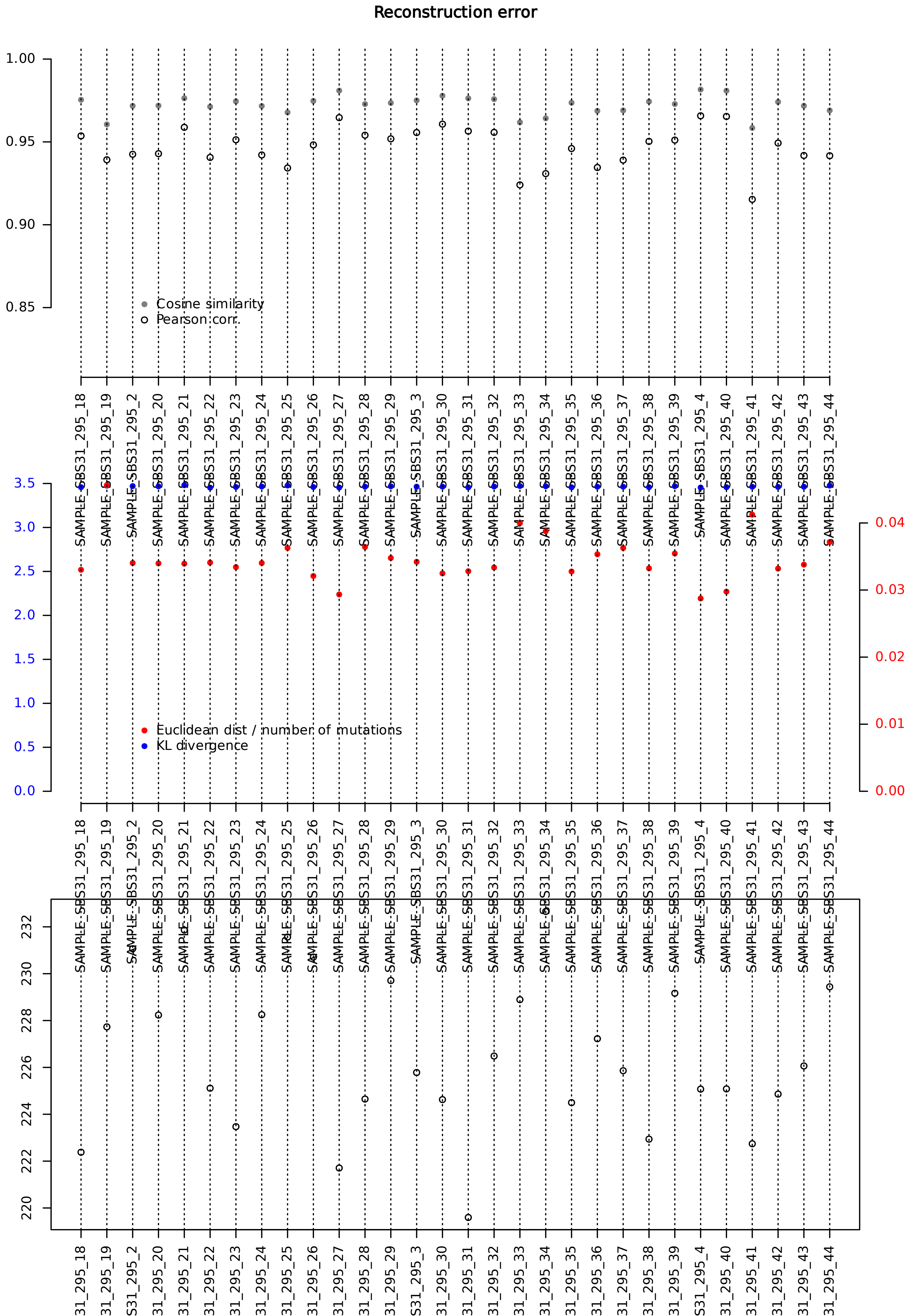

Reconstruction error


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
SAMPLE-SBS31_285_90
SAMPLE-SBS31_285_91
SAMPLE-SBS31_285_92
SAMPLE-SBS31_285_93
SAMPLE-SBS31_285_94
SAMPLE-SBS31_285_95
SAMPLE-SBS31_285_96
SAMPLE-SBS31_285_97
SAMPLE-SBS31_285_98
SAMPLE-SBS31_285_99
SAMPLE-SBS31_290_1
SAMPLE-SBS31_290_10
SAMPLE-SBS31_290_100
SAMPLE-SBS31_290_11
SAMPLE-SBS31_290_12
SAMPLE-SBS31_290_13
SAMPLE-SBS31_290_14
SAMPLE-SBS31_290_15
SAMPLE-SBS31_290_16
SAMPLE-SBS31_290_17
SAMPLE-SBS31_290_18
SAMPLE-SBS31_290_19
SAMPLE-SBS31_290_2
SAMPLE-SBS31_290_20
SAMPLE-SBS31_290_21
SAMPLE-SBS31_290_22
SAMPLE-SBS31_290_23
SAMPLE-SBS31_290_24
SAMPLE-SBS31_290_25
SAMPLE-SBS31_290_26
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
SAMPLE-SBS31_290_27
SAMPLE-SBS31_290_28
SAMPLE-SBS31_290_29
SAMPLE-SBS31_290_3
SAMPLE-SBS31_290_30
SAMPLE-SBS31_290_31
SAMPLE-SBS31_290_32
SAMPLE-SBS31_290_33
SAMPLE-SBS31_290_34
SAMPLE-SBS31_290_35
SAMPLE-SBS31_290_36
SAMPLE-SBS31_290_37
SAMPLE-SBS31_290_38
SAMPLE-SBS31_290_39
SAMPLE-SBS31_290_4
SAMPLE-SBS31_290_40
SAMPLE-SBS31_290_41
SAMPLE-SBS31_290_42
SAMPLE-SBS31_290_43
SAMPLE-SBS31_290_44
SAMPLE-SBS31_290_45
SAMPLE-SBS31_290_46
SAMPLE-SBS31_290_47
SAMPLE-SBS31_290_48
SAMPLE-SBS31_290_49
SAMPLE-SBS31_290_5
SAMPLE-SBS31_290_50
SAMPLE-SBS31_290_51
SAMPLE-SBS31_290_52
SAMPLE-SBS31_290_53
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
236
234
232
230
228
226
224
222


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
SAMPLE-SBS31_290_54
SAMPLE-SBS31_290_55
SAMPLE-SBS31_290_56
SAMPLE-SBS31_290_57
SAMPLE-SBS31_290_58
SAMPLE-SBS31_290_59
SAMPLE-SBS31_290_6
SAMPLE-SBS31_290_60
SAMPLE-SBS31_290_61
SAMPLE-SBS31_290_62
SAMPLE-SBS31_290_63
SAMPLE-SBS31_290_64
SAMPLE-SBS31_290_65
SAMPLE-SBS31_290_66
SAMPLE-SBS31_290_67
SAMPLE-SBS31_290_68
SAMPLE-SBS31_290_69
SAMPLE-SBS31_290_7
SAMPLE-SBS31_290_70
SAMPLE-SBS31_290_71
SAMPLE-SBS31_290_72
SAMPLE-SBS31_290_73
SAMPLE-SBS31_290_74
SAMPLE-SBS31_290_75
SAMPLE-SBS31_290_76
SAMPLE-SBS31_290_77
SAMPLE-SBS31_290_78
SAMPLE-SBS31_290_79
SAMPLE-SBS31_290_8
SAMPLE-SBS31_290_80
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
240
235
230
225
220


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
SAMPLE-SBS31_290_81
SAMPLE-SBS31_290_82
SAMPLE-SBS31_290_83
SAMPLE-SBS31_290_84
SAMPLE-SBS31_290_85
SAMPLE-SBS31_290_86
SAMPLE-SBS31_290_87
SAMPLE-SBS31_290_88
SAMPLE-SBS31_290_89
SAMPLE-SBS31_290_9
SAMPLE-SBS31_290_90
SAMPLE-SBS31_290_91
SAMPLE-SBS31_290_92
SAMPLE-SBS31_290_93
SAMPLE-SBS31_290_94
SAMPLE-SBS31_290_95
SAMPLE-SBS31_290_96
SAMPLE-SBS31_290_97
SAMPLE-SBS31_290_98
SAMPLE-SBS31_290_99
SAMPLE-SBS31_295_1
SAMPLE-SBS31_295_10
SAMPLE-SBS31_295_100
SAMPLE-SBS31_295_11
SAMPLE-SBS31_295_12
SAMPLE-SBS31_295_13
SAMPLE-SBS31_295_14
SAMPLE-SBS31_295_15
SAMPLE-SBS31_295_16
SAMPLE-SBS31_295_17
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
220


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
232
230
228
226
224
222
220
SAMPLE-SBS31_295_18
SAMPLE-SBS31_295_19
SAMPLE-SBS31_295_2
SAMPLE-SBS31_295_20
SAMPLE-SBS31_295_21
SAMPLE-SBS31_295_22
SAMPLE-SBS31_295_23
SAMPLE-SBS31_295_24
SAMPLE-SBS31_295_25
SAMPLE-SBS31_295_26
SAMPLE-SBS31_295_27
SAMPLE-SBS31_295_28
SAMPLE-SBS31_295_29
SAMPLE-SBS31_295_3
SAMPLE-SBS31_295_30
SAMPLE-SBS31_295_31
SAMPLE-SBS31_295_32
SAMPLE-SBS31_295_33
SAMPLE-SBS31_295_34
SAMPLE-SBS31_295_35
SAMPLE-SBS31_295_36
SAMPLE-SBS31_295_37
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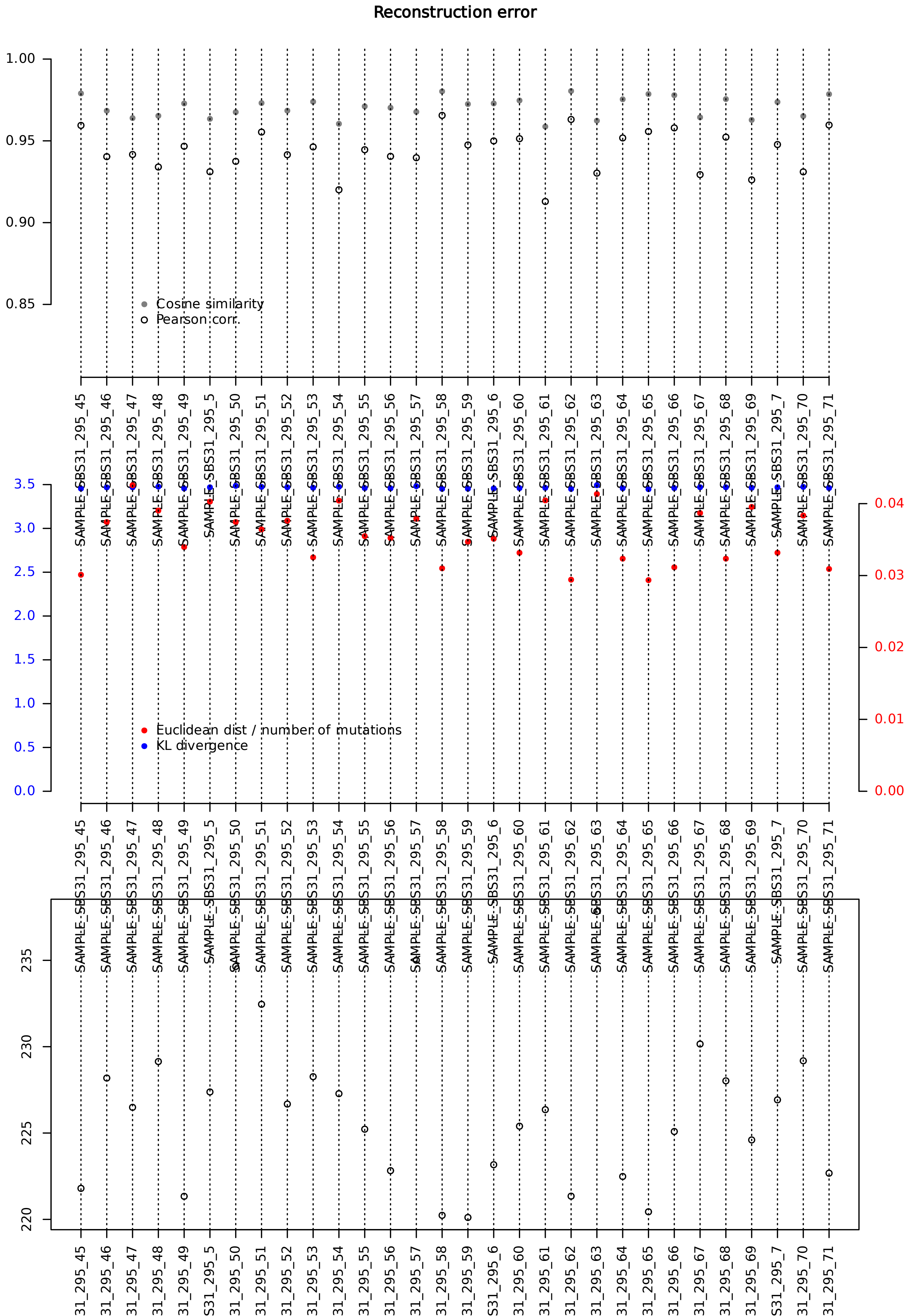
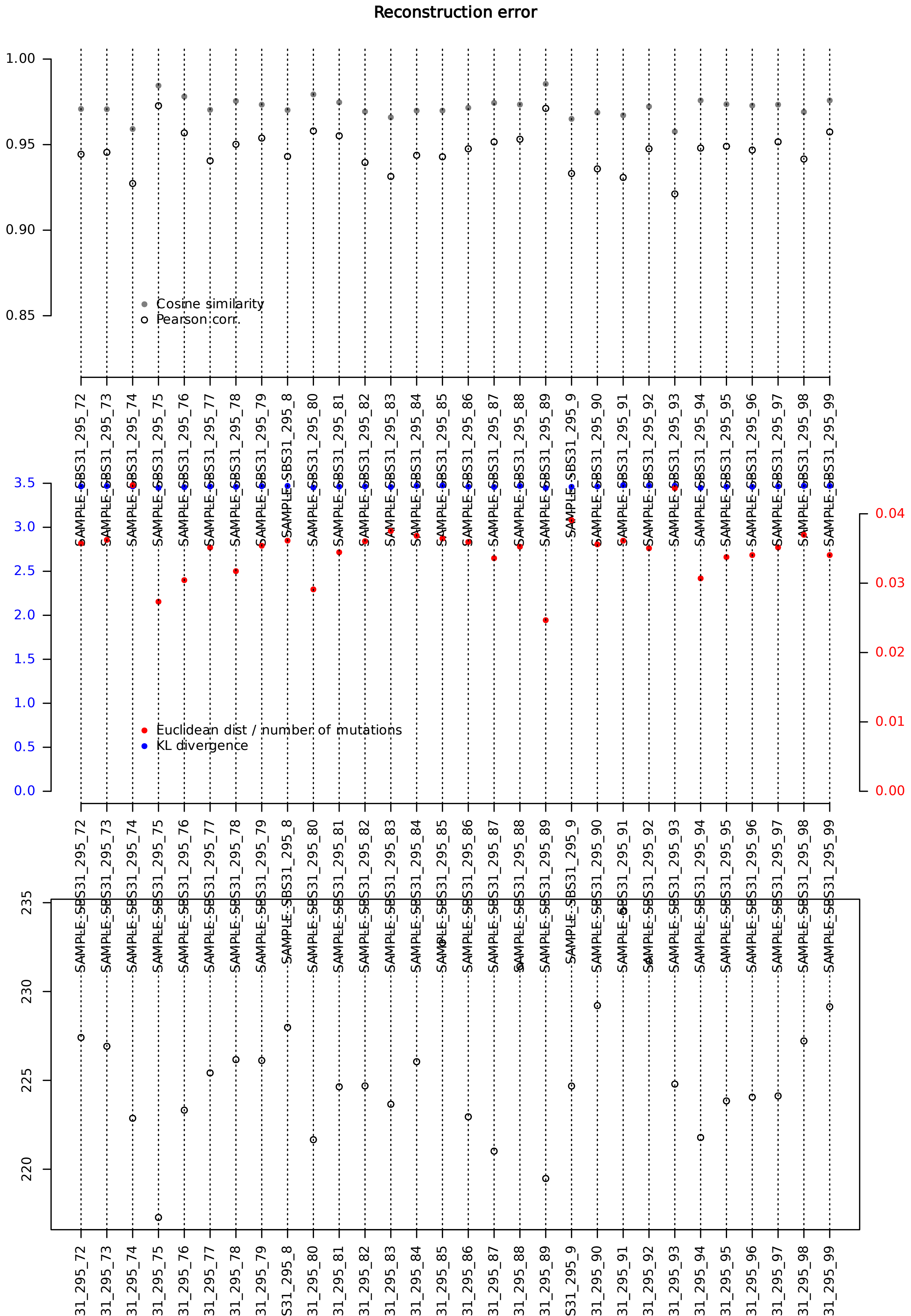
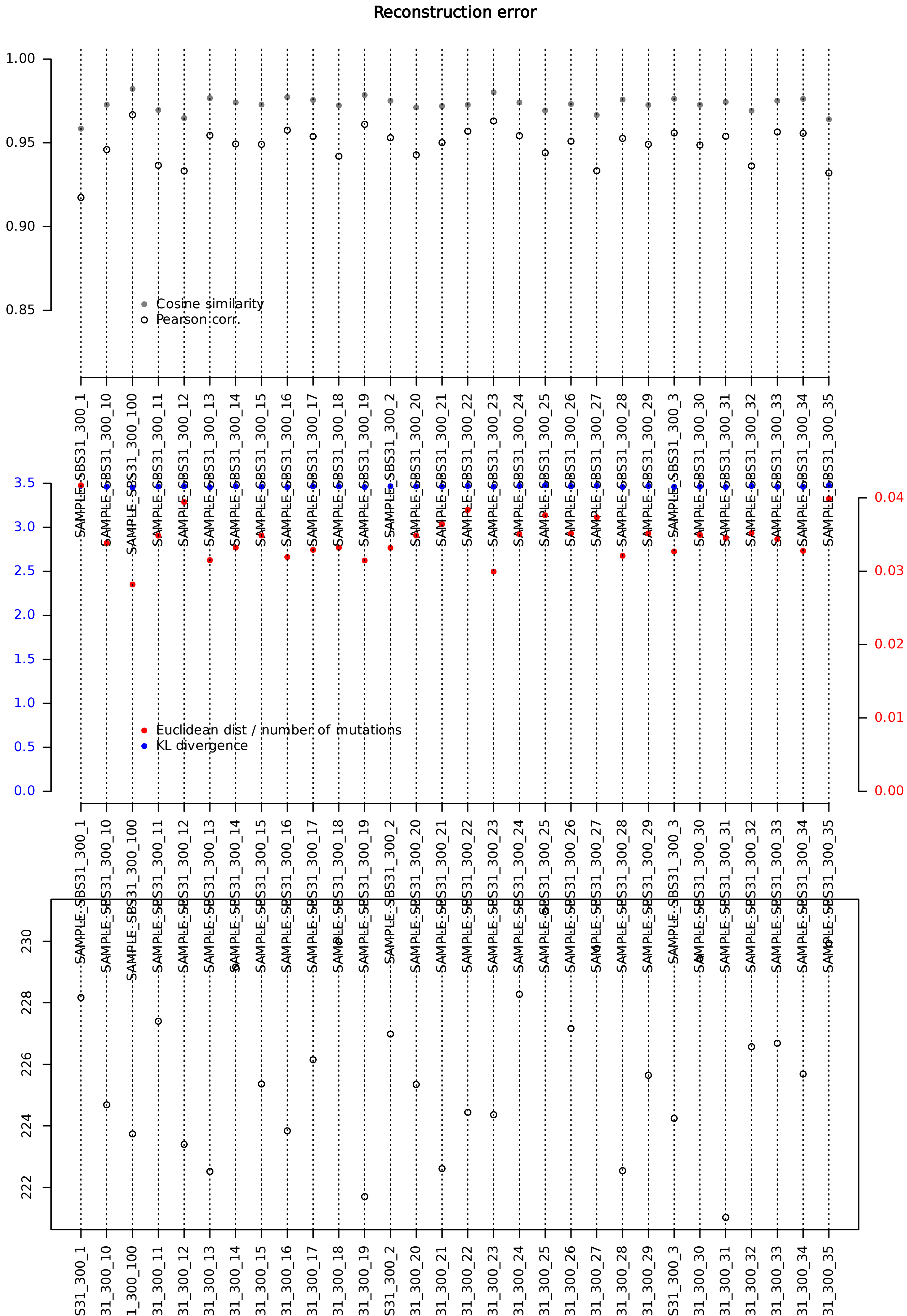
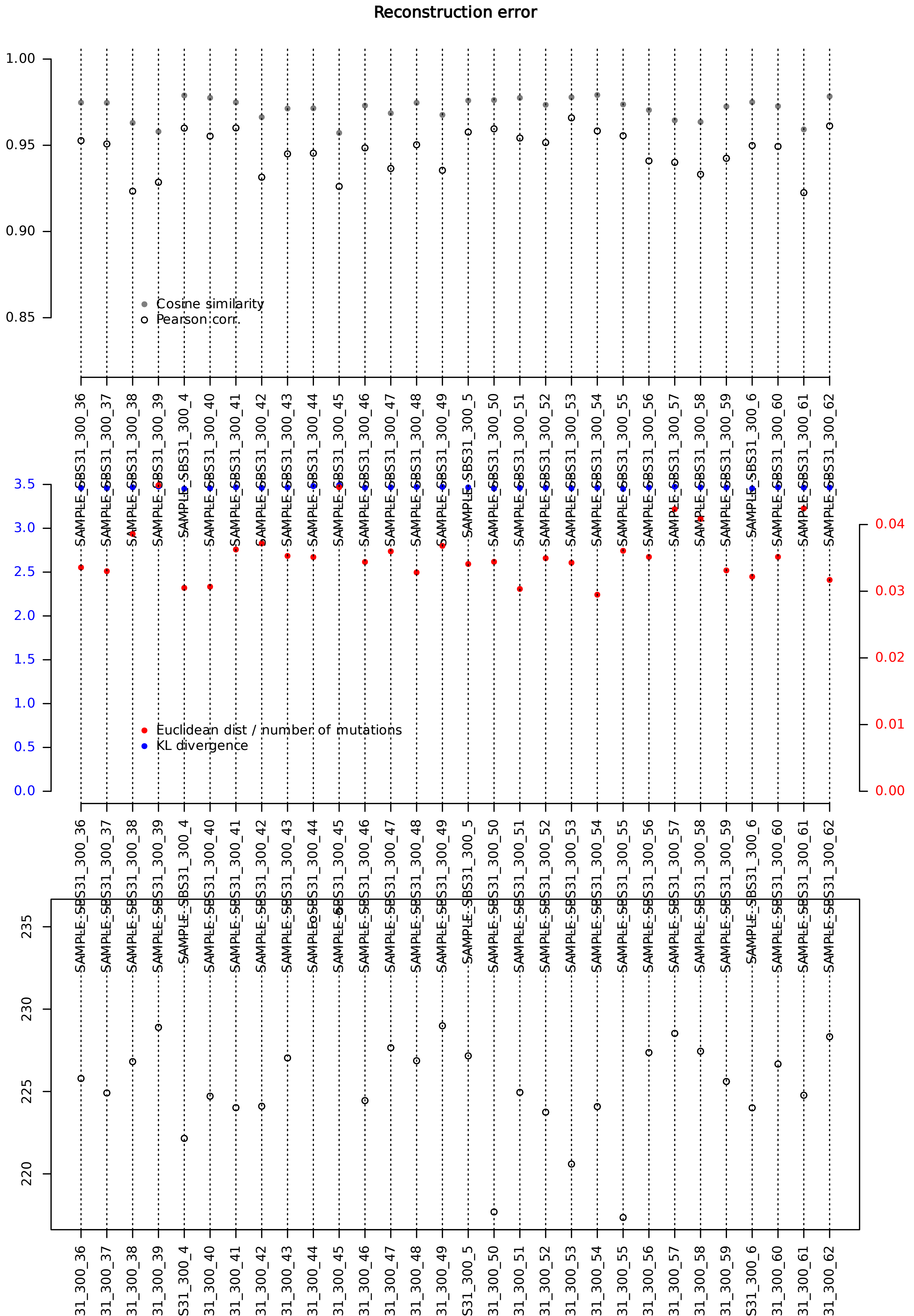
SAMPLE-SBS31_295_39
SAMPLE-SBS31_295_4
SAMPLE-SBS31_295_40
SAMPLE-SBS31_295_41
SAMPLE-SBS31_295_42
SAMPLE-SBS31_295_43
SAMPLE-SBS31_295_44

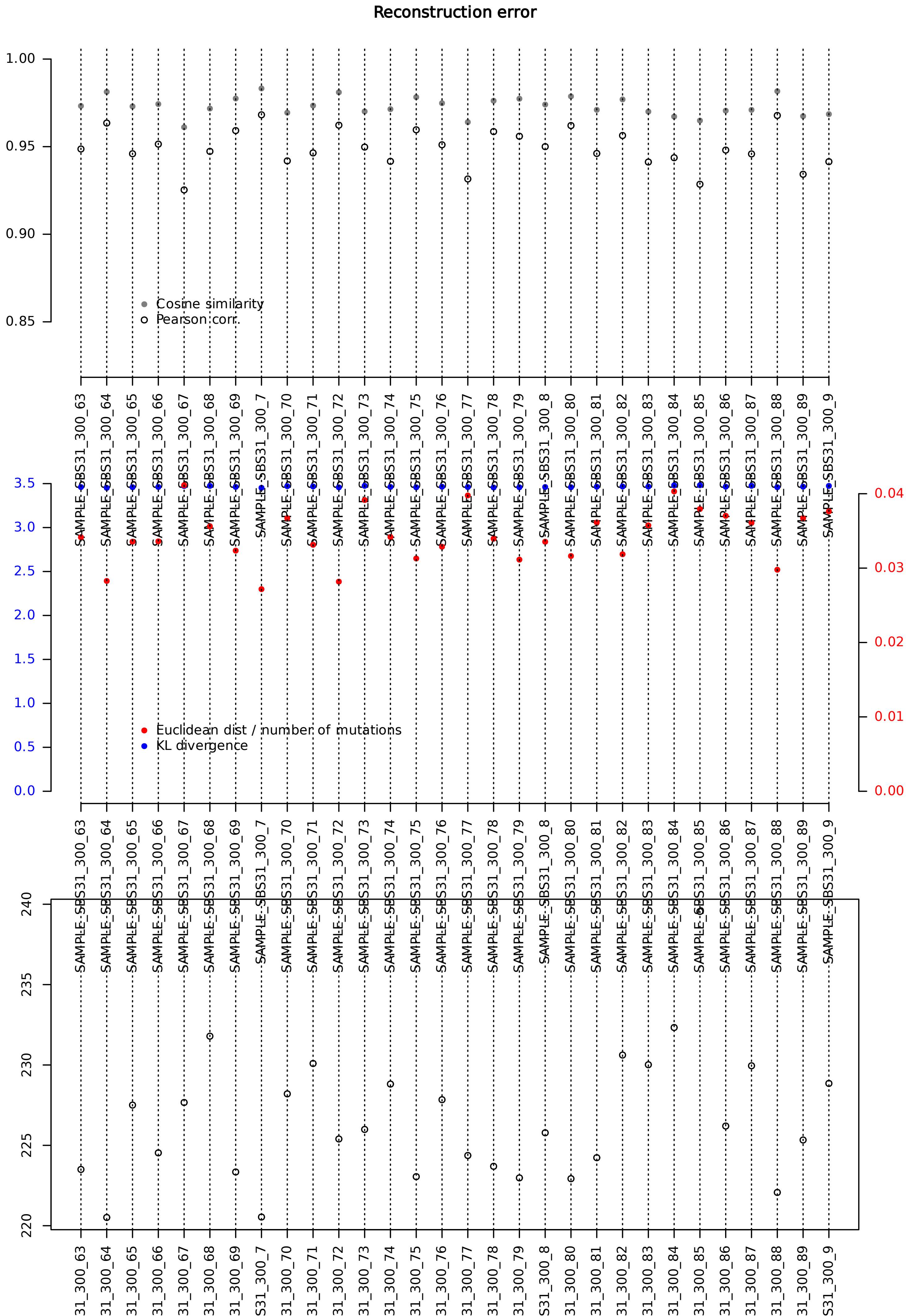


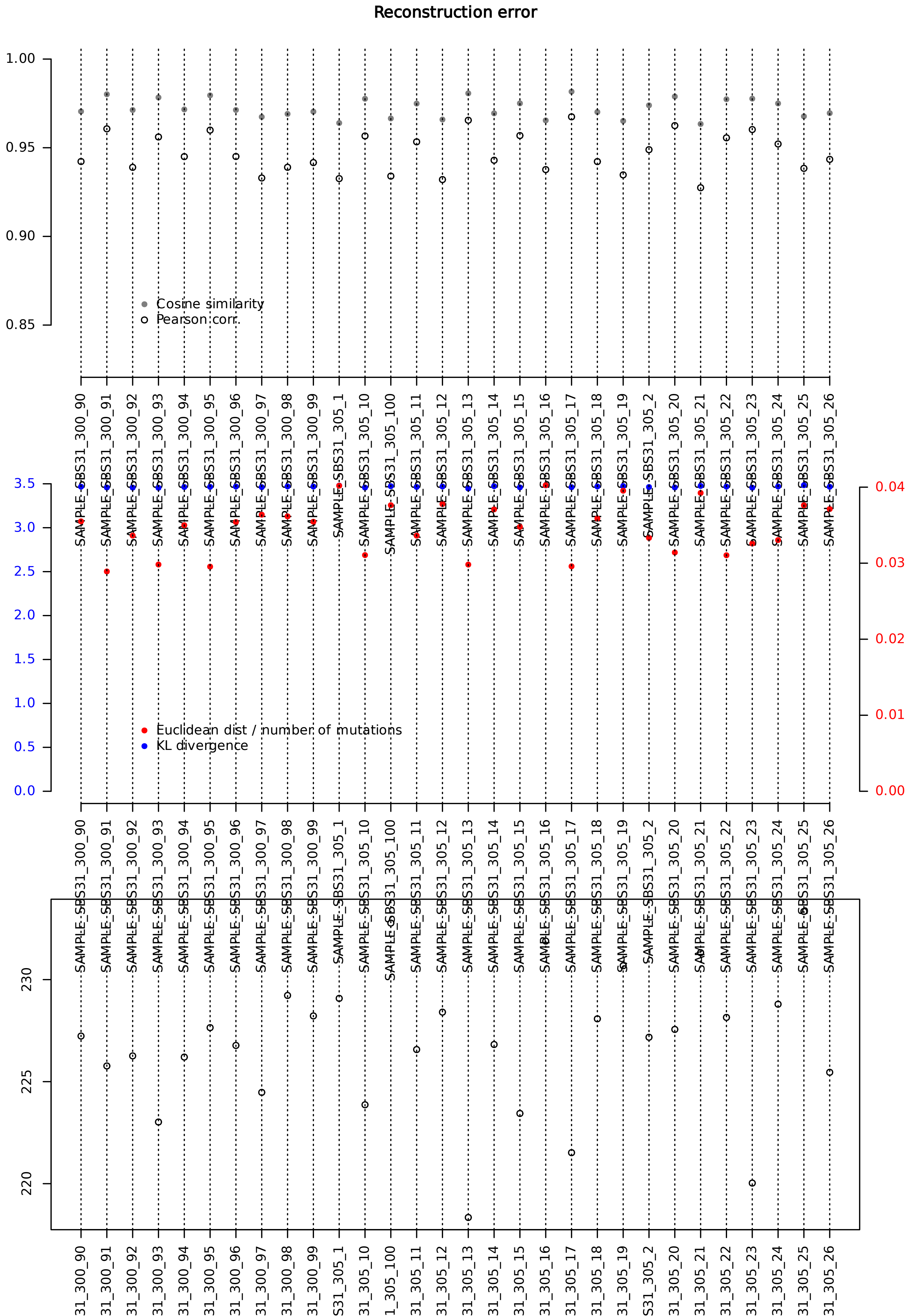
Reconstruction error

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
220
SAMPLE-SBS31_295_72
SAMPLE-SBS31_295_73
SAMPLE-SBS31_295_74
SAMPLE-SBS31_295_75
SAMPLE-SBS31_295_76
SAMPLE-SBS31_295_77
SAMPLE-SBS31_295_78
SAMPLE-SBS31_295_79
SAMPLE-SBS31_295_8
SAMPLE-SBS31_295_80
SAMPLE-SBS31_295_81
SAMPLE-SBS31_295_82
SAMPLE-SBS31_295_83
SAMPLE-SBS31_295_84
SAMPLE-SBS31_295_85
SAMPLE-SBS31_295_86
SAMPLE-SBS31_295_87
SAMPLE-SBS31_295_88
SAMPLE-SBS31_295_89
SAMPLE-SBS31_295_9
SAMPLE-SBS31_295_90
SAMPLE-SBS31_295_91
SAMPLE-SBS31_295_92
SAMPLE-SBS31_295_93
SAMPLE-SBS31_295_94
SAMPLE-SBS31_295_95
SAMPLE-SBS31_295_96
SAMPLE-SBS31_295_97
SAMPLE-SBS31_295_98
SAMPLE-SBS31_295_99


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
SAMPLE-SBS31_300_1
SAMPLE-SBS31_300_10
SAMPLE-SBS31_300_100
SAMPLE-SBS31_300_11
SAMPLE-SBS31_300_12
SAMPLE-SBS31_300_13
SAMPLE-SBS31_300_14
SAMPLE-SBS31_300_15
SAMPLE-SBS31_300_16
SAMPLE-SBS31_300_17
SAMPLE-SBS31_300_18
SAMPLE-SBS31_300_19
SAMPLE-SBS31_300_2
SAMPLE-SBS31_300_20
SAMPLE-SBS31_300_21
SAMPLE-SBS31_300_22
SAMPLE-SBS31_300_23
SAMPLE-SBS31_300_24
SAMPLE-SBS31_300_25
SAMPLE-SBS31_300_26
SAMPLE-SBS31_300_27
SAMPLE-SBS31_300_28
SAMPLE-SBS31_300_29
SAMPLE-SBS31_300_3
SAMPLE-SBS31_300_30
SAMPLE-SBS31_300_31
SAMPLE-SBS31_300_32
SAMPLE-SBS31_300_33
SAMPLE-SBS31_300_34
SAMPLE-SBS31_300_35
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
230
228
226
224
222


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
220
SAMPLE-SBS31_300_36
SAMPLE-SBS31_300_37
SAMPLE-SBS31_300_38
SAMPLE-SBS31_300_39
SAMPLE-SBS31_300_4
SAMPLE-SBS31_300_40
SAMPLE-SBS31_300_41
SAMPLE-SBS31_300_42
SAMPLE-SBS31_300_43
SAMPLE-SBS31_300_44
SAMPLE-SBS31_300_45
SAMPLE-SBS31_300_46
SAMPLE-SBS31_300_47
SAMPLE-SBS31_300_48
SAMPLE-SBS31_300_49
SAMPLE-SBS31_300_5
SAMPLE-SBS31_300_50
SAMPLE-SBS31_300_51
SAMPLE-SBS31_300_52
SAMPLE-SBS31_300_53
SAMPLE-SBS31_300_54
SAMPLE-SBS31_300_55
SAMPLE-SBS31_300_56
SAMPLE-SBS31_300_57
SAMPLE-SBS31_300_58
SAMPLE-SBS31_300_59
SAMPLE-SBS31_300_6
SAMPLE-SBS31_300_60
SAMPLE-SBS31_300_61
SAMPLE-SBS31_300_62


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
240
235
230
225
220
SAMPLE-SBS31_300_63
SAMPLE-SBS31_300_64
SAMPLE-SBS31_300_65
SAMPLE-SBS31_300_66
SAMPLE-SBS31_300_67
SAMPLE-SBS31_300_68
SAMPLE-SBS31_300_69
SAMPLE-SBS31_300_7
SAMPLE-SBS31_300_70
SAMPLE-SBS31_300_71
SAMPLE-SBS31_300_72
SAMPLE-SBS31_300_73
SAMPLE-SBS31_300_74
SAMPLE-SBS31_300_75
SAMPLE-SBS31_300_76
SAMPLE-SBS31_300_77
SAMPLE-SBS31_300_78
SAMPLE-SBS31_300_79
SAMPLE-SBS31_300_8
SAMPLE-SBS31_300_80
SAMPLE-SBS31_300_81
SAMPLE-SBS31_300_82
SAMPLE-SBS31_300_83
SAMPLE-SBS31_300_84
SAMPLE-SBS31_300_85
SAMPLE-SBS31_300_86
SAMPLE-SBS31_300_87
SAMPLE-SBS31_300_88
SAMPLE-SBS31_300_89
SAMPLE-SBS31_300_9


Reconstruction error
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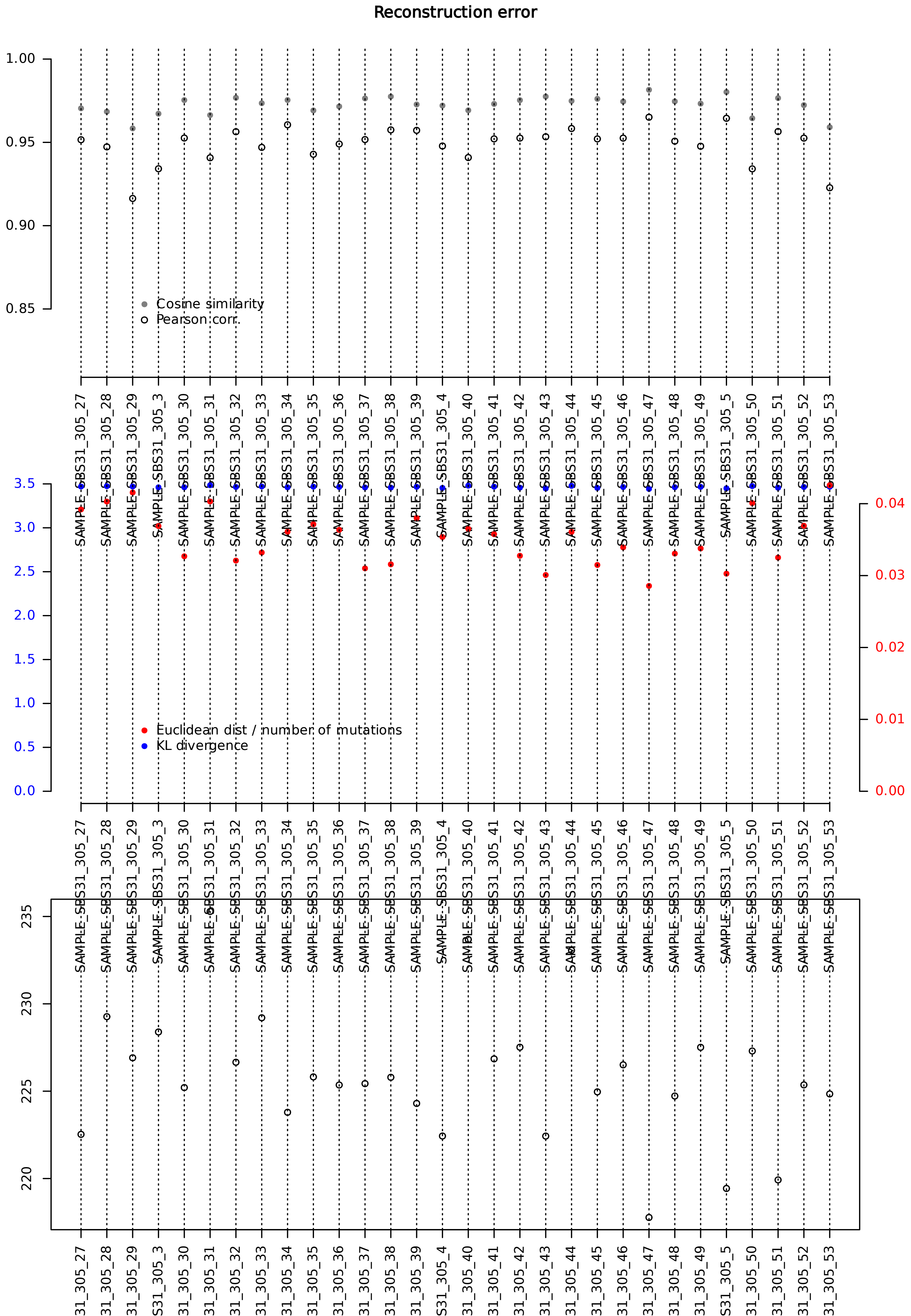
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
230
225
220
SAMPLE-SBS31_300_90
SAMPLE-SBS31_300_91
SAMPLE-SBS31_300_92
SAMPLE-SBS31_300_93
SAMPLE-SBS31_300_94
SAMPLE-SBS31_300_95
SAMPLE-SBS31_300_96
SAMPLE-SBS31_300_97
SAMPLE-SBS31_300_98
SAMPLE-SBS31_300_99
SAMPLE-SBS31_305_1
SAMPLE-SBS31_305_10
SAMPLE-SBS31_305_100
SAMPLE-SBS31_305_11
SAMPLE-SBS31_305_12
SAMPLE-SBS31_305_13
SAMPLE-SBS31_305_14
SAMPLE-SBS31_305_15
SAMPLE-SBS31_305_16
SAMPLE-SBS31_305_17
SAMPLE-SBS31_305_18
SAMPLE-SBS31_305_19
SAMPLE-SBS31_305_2
SAMPLE-SBS31_305_20
SAMPLE-SBS31_305_21
SAMPLE-SBS31_305_22
SAMPLE-SBS31_305_23
SAMPLE-SBS31_305_24
SAMPLE-SBS31_305_25
SAMPLE-SBS31_305_26


Reconstruction error
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0.95
0.90
0.85
Cosine similarity
Pearson corr.
SAMPLE-SBS31_305_27
SAMPLE-SBS31_305_28
SAMPLE-SBS31_305_29
SAMPLE-SBS31_305_3
SAMPLE-SBS31_305_30
SAMPLE-SBS31_305_31
SAMPLE-SBS31_305_32
SAMPLE-SBS31_305_33
SAMPLE-SBS31_305_34
SAMPLE-SBS31_305_35
SAMPLE-SBS31_305_36
SAMPLE-SBS31_305_37
SAMPLE-SBS31_305_38
SAMPLE-SBS31_305_39
SAMPLE-SBS31_305_4
SAMPLE-SBS31_305_40
SAMPLE-SBS31_305_41
SAMPLE-SBS31_305_42
SAMPLE-SBS31_305_43
SAMPLE-SBS31_305_44
SAMPLE-SBS31_305_45
SAMPLE-SBS31_305_46
SAMPLE-SBS31_305_47
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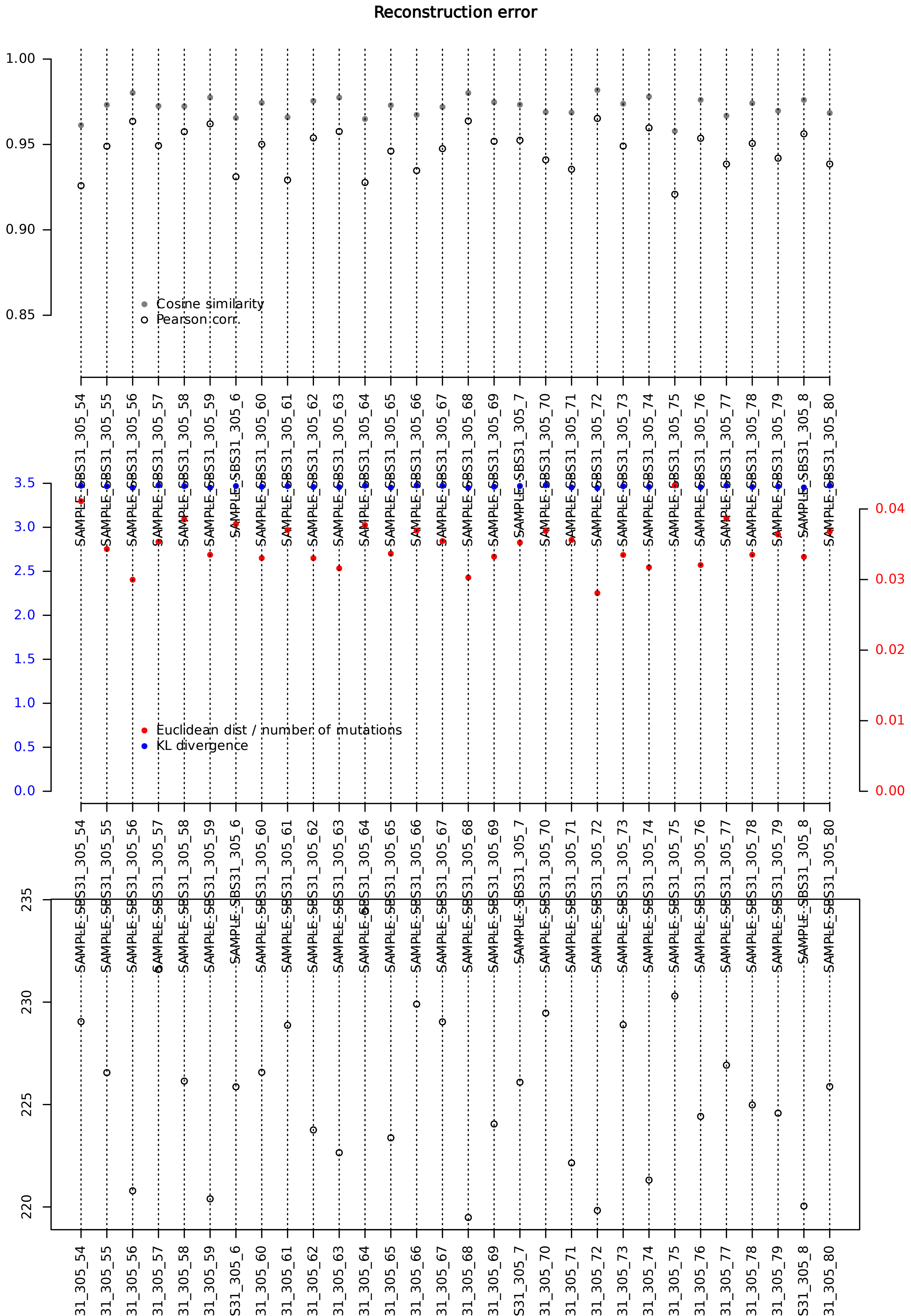
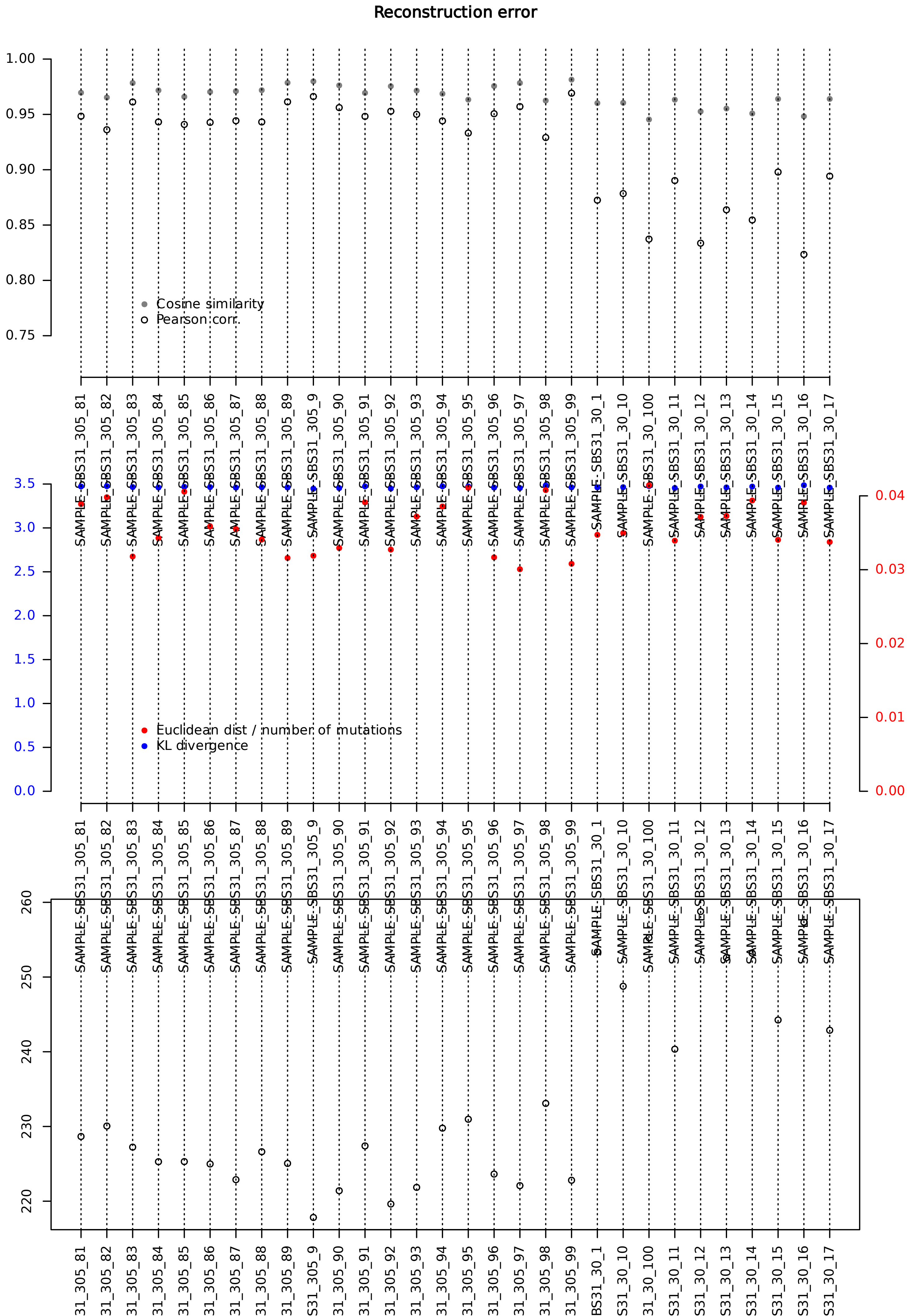
SAMPLE-SBS31_305_49
SAMPLE-SBS31_305_5
SAMPLE-SBS31_305_50
SAMPLE-SBS31_305_51
SAMPLE-SBS31_305_52
SAMPLE-SBS31_305_53
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
220


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
SAMPLE-SBS31_305_54
SAMPLE-SBS31_305_55
SAMPLE-SBS31_305_56
SAMPLE-SBS31_305_57
SAMPLE-SBS31_305_58
SAMPLE-SBS31_305_59
SAMPLE-SBS31_305_6
SAMPLE-SBS31_305_60
SAMPLE-SBS31_305_61
SAMPLE-SBS31_305_62
SAMPLE-SBS31_305_63
SAMPLE-SBS31_305_64
SAMPLE-SBS31_305_65
SAMPLE-SBS31_305_66
SAMPLE-SBS31_305_67
SAMPLE-SBS31_305_68
SAMPLE-SBS31_305_69
SAMPLE-SBS31_305_7
SAMPLE-SBS31_305_70
SAMPLE-SBS31_305_71
SAMPLE-SBS31_305_72
SAMPLE-SBS31_305_73
SAMPLE-SBS31_305_74
SAMPLE-SBS31_305_75
SAMPLE-SBS31_305_76
SAMPLE-SBS31_305_77
SAMPLE-SBS31_305_78
SAMPLE-SBS31_305_79
SAMPLE-SBS31_305_8
SAMPLE-SBS31_305_80
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
220


Reconstruction error
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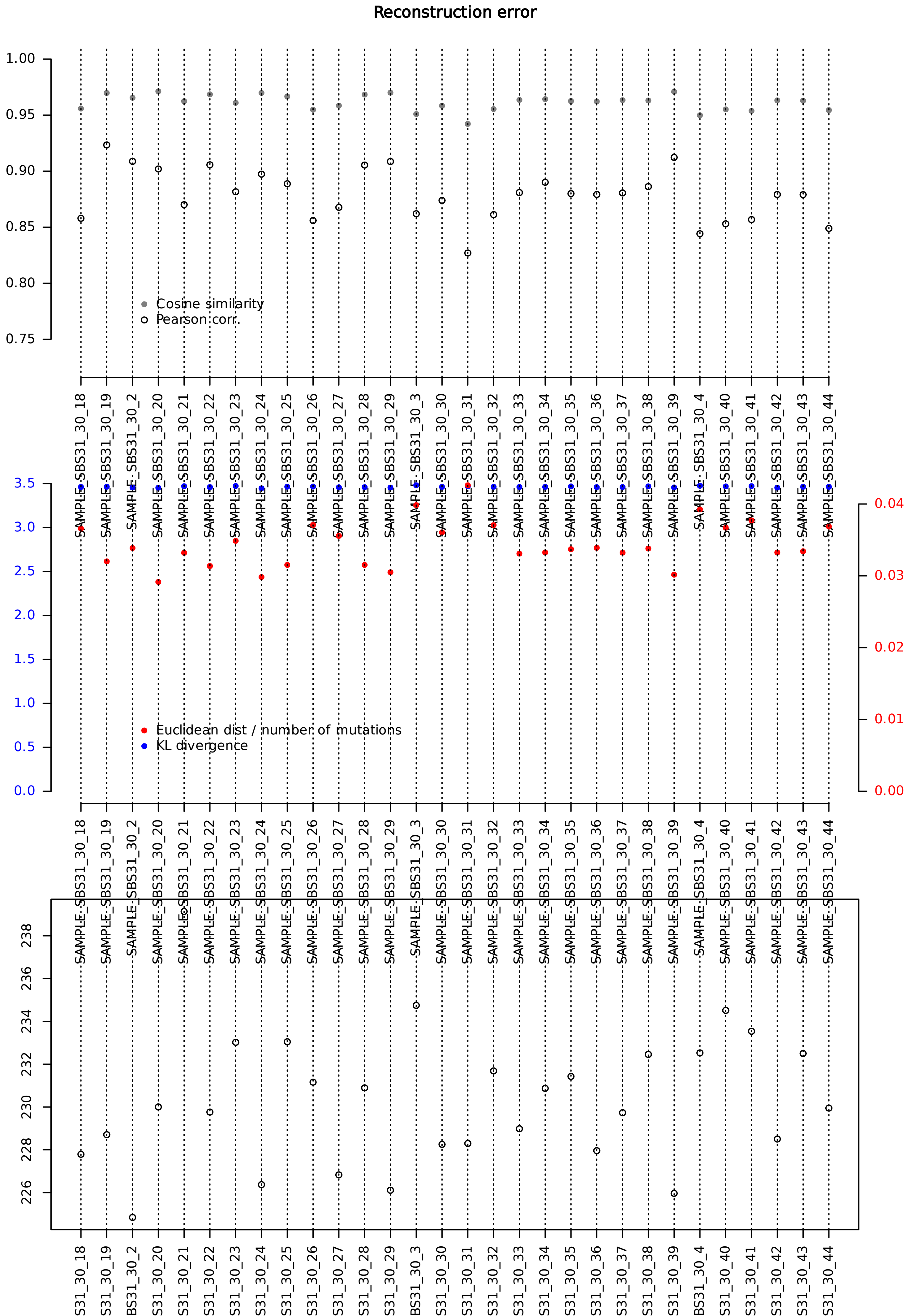
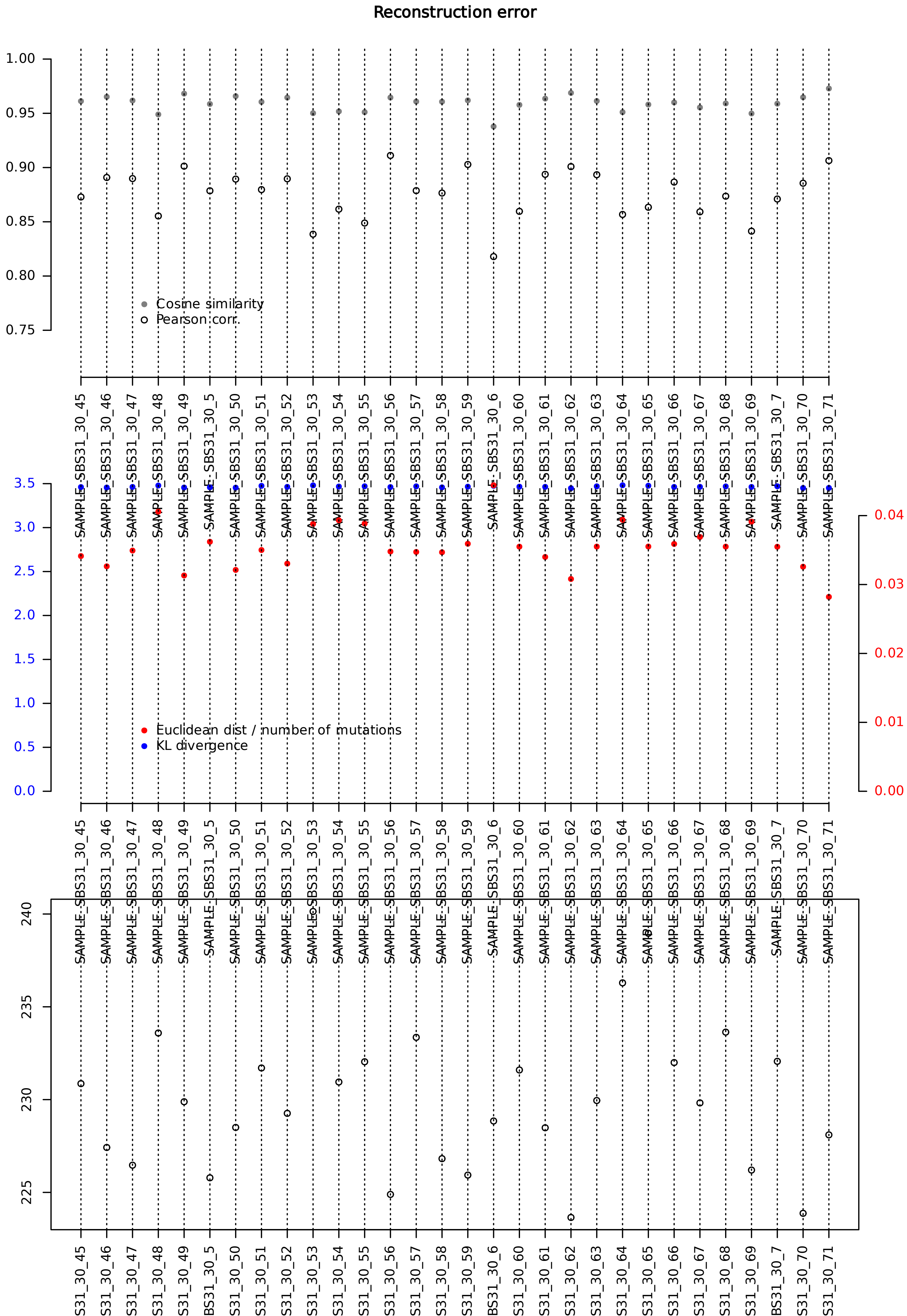
0.95
0.90
0.85
0.80
0.75
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
260
250
240
230
220
SAMPLE-SBS31_305_81
SAMPLE-SBS31_305_82
SAMPLE-SBS31_305_83
SAMPLE-SBS31_305_84
SAMPLE-SBS31_305_85
SAMPLE-SBS31_305_86
SAMPLE-SBS31_305_87
SAMPLE-SBS31_305_88
SAMPLE-SBS31_305_89
SAMPLE-SBS31_305_9
SAMPLE-SBS31_305_90
SAMPLE-SBS31_305_91
SAMPLE-SBS31_305_92
SAMPLE-SBS31_305_93
SAMPLE-SBS31_305_94
SAMPLE-SBS31_305_95
SAMPLE-SBS31_305_96
SAMPLE-SBS31_305_97
SAMPLE-SBS31_305_98
SAMPLE-SBS31_305_99
SAMPLE-SBS31_30_1
SAMPLE-SBS31_30_10
SAMPLE-SBS31_30_100
SAMPLE-SBS31_30_11
SAMPLE-SBS31_30_12
SAMPLE-SBS31_30_13
SAMPLE-SBS31_30_14
SAMPLE-SBS31_30_15
SAMPLE-SBS31_30_16
SAMPLE-SBS31_30_17


Reconstruction error
1.00
0.95
0.90
0.85
0.80
0.75
Cosine similarity
Pearson corr.
SAMPLE-SBS31_30_18
SAMPLE-SBS31_30_19
SAMPLE-SBS31_30_2
SAMPLE-SBS31_30_20
SAMPLE-SBS31_30_21
SAMPLE-SBS31_30_22
SAMPLE-SBS31_30_23
SAMPLE-SBS31_30_24
SAMPLE-SBS31_30_25
SAMPLE-SBS31_30_26
SAMPLE-SBS31_30_27
SAMPLE-SBS31_30_28
SAMPLE-SBS31_30_29
SAMPLE-SBS31_30_3
SAMPLE-SBS31_30_30
SAMPLE-SBS31_30_31
SAMPLE-SBS31_30_32
SAMPLE-SBS31_30_33
SAMPLE-SBS31_30_34
SAMPLE-SBS31_30_35
SAMPLE-SBS31_30_36
SAMPLE-SBS31_30_37
SAMPLE-SBS31_30_38
SAMPLE-SBS31_30_39
SAMPLE-SBS31_30_4
SAMPLE-SBS31_30_40
SAMPLE-SBS31_30_41
SAMPLE-SBS31_30_42
SAMPLE-SBS31_30_43
SAMPLE-SBS31_30_44
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
238
236
234
232
230
228
226


Reconstruction error
1.00
0.95
0.90
0.85
0.80
0.75
Cosine similarity
Pearson corr.
SAMPLE_SBS31_30_45
SAMPLE_SBS31_30_46
SAMPLE_SBS31_30_47
SAMPLE_SBS31_30_48
SAMPLE_SBS31_30_49
SAMPLE_SBS31_30_5
SAMPLE_SBS31_30_50
SAMPLE_SBS31_30_51
SAMPLE_SBS31_30_52
SAMPLE_SBS31_30_53
SAMPLE_SBS31_30_54
SAMPLE_SBS31_30_55
SAMPLE_SBS31_30_56
SAMPLE_SBS31_30_57
SAMPLE_SBS31_30_58
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SAMPLE_SBS31_30_64
SAMPLE_SBS31_30_65
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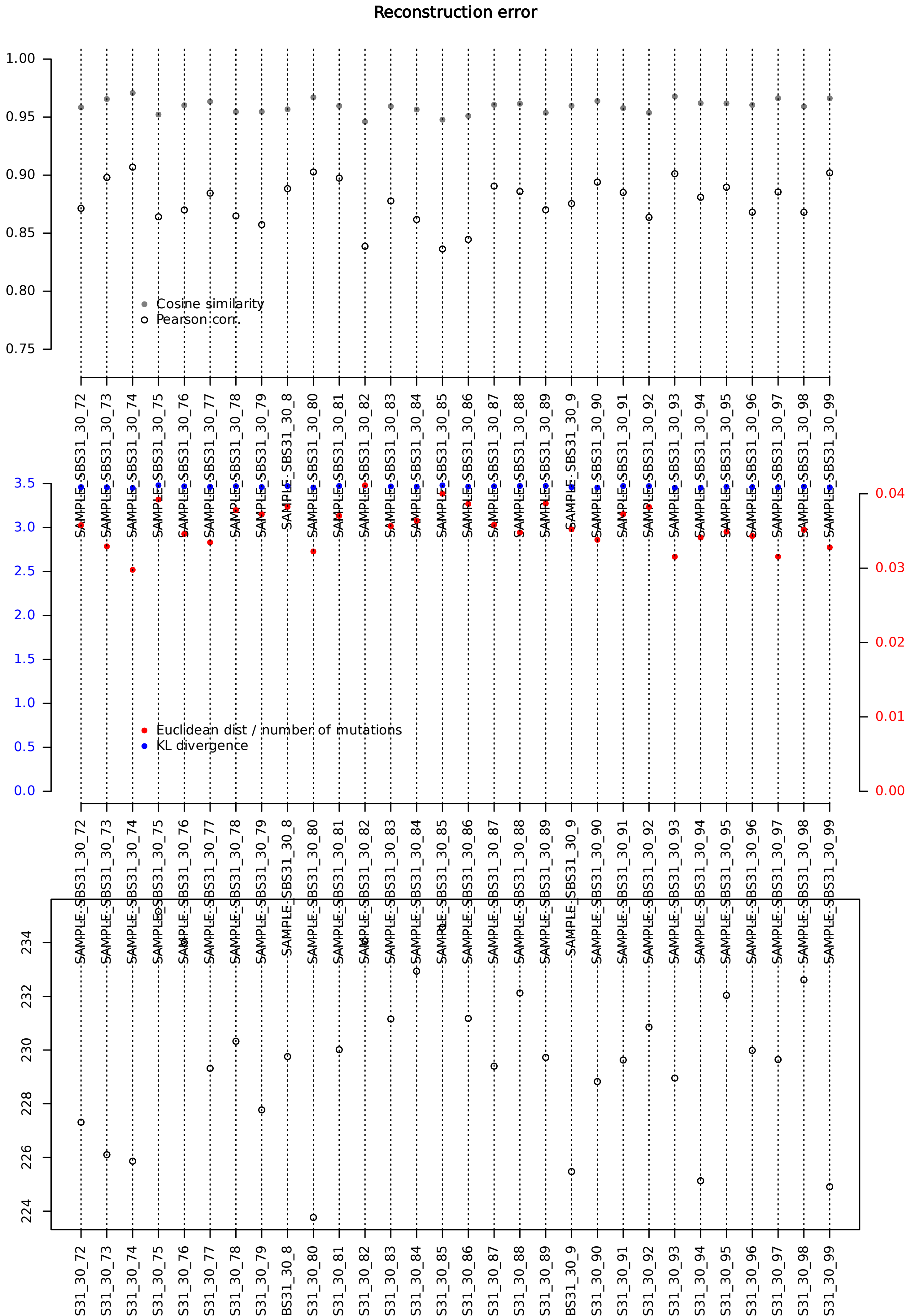
SAMPLE_SBS31_30_67
SAMPLE_SBS31_30_68
SAMPLE_SBS31_30_69
SAMPLE_SBS31_30_7
SAMPLE_SBS31_30_70
SAMPLE_SBS31_30_71
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
240
235
230
225


Reconstruction error
1.00
0.95
0.90
0.85
0.80
0.75
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
234
232
230
228
226
224
SAMPLE-SBS31_30_72
SAMPLE-SBS31_30_73
SAMPLE-SBS31_30_74
SAMPLE-SBS31_30_75
SAMPLE-SBS31_30_76
SAMPLE-SBS31_30_77
SAMPLE-SBS31_30_78
SAMPLE-SBS31_30_79
SAMPLE-SBS31_30_8
SAMPLE-SBS31_30_80
SAMPLE-SBS31_30_81
SAMPLE-SBS31_30_82
SAMPLE-SBS31_30_83
SAMPLE-SBS31_30_84
SAMPLE-SBS31_30_85
SAMPLE-SBS31_30_86
SAMPLE-SBS31_30_87
SAMPLE-SBS31_30_88
SAMPLE-SBS31_30_89
SAMPLE-SBS31_30_9
SAMPLE-SBS31_30_90
SAMPLE-SBS31_30_91
SAMPLE-SBS31_30_92
SAMPLE-SBS31_30_93
SAMPLE-SBS31_30_94
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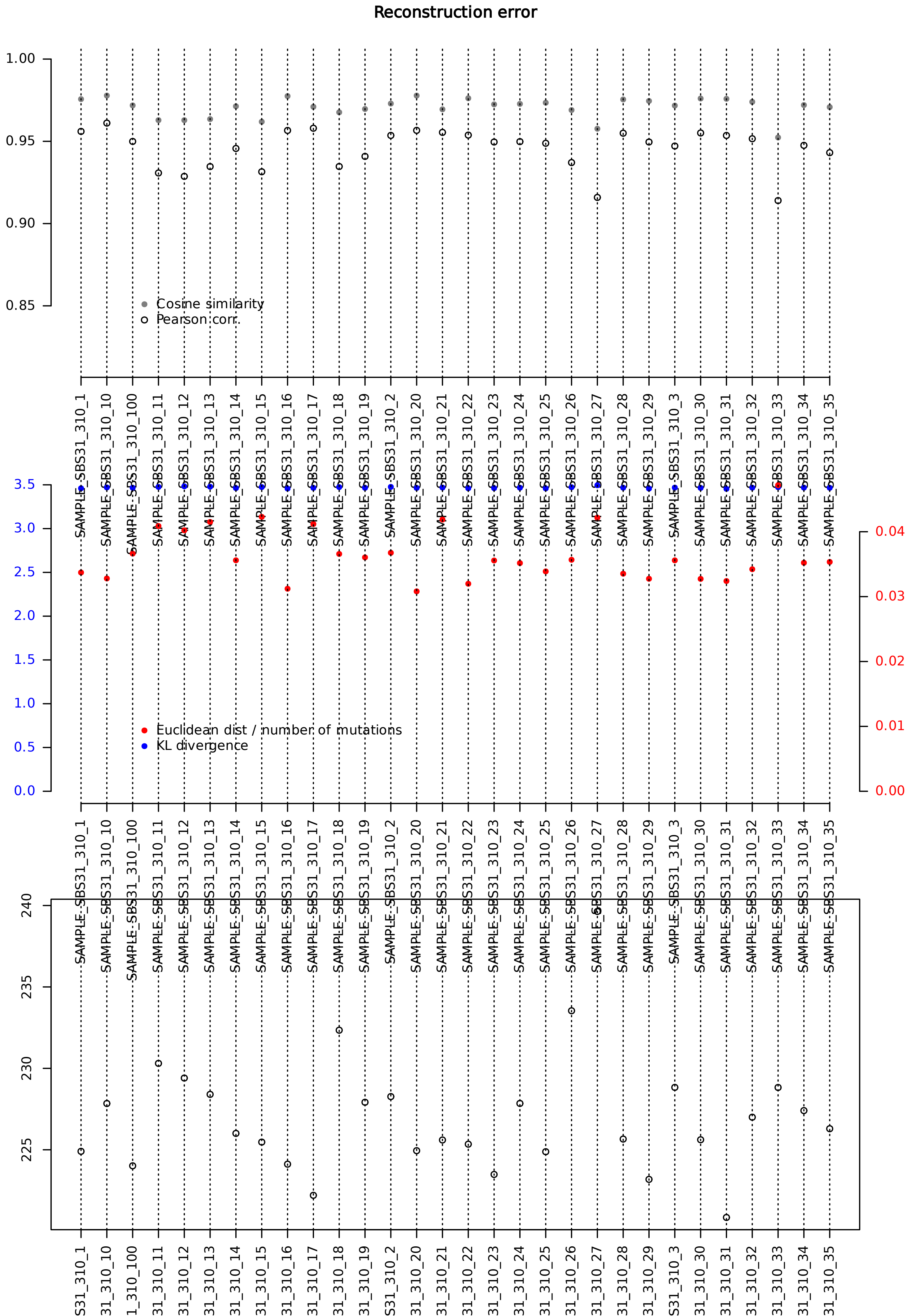
SAMPLE-SBS31_30_96
SAMPLE-SBS31_30_97
SAMPLE-SBS31_30_98
SAMPLE-SBS31_30_99


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
240
235
230
225
SAMPLE-SBS31_310_1
SAMPLE-SBS31_310_10
SAMPLE-SBS31_310_100
SAMPLE-SBS31_310_11
SAMPLE-SBS31_310_12
SAMPLE-SBS31_310_13
SAMPLE-SBS31_310_14
SAMPLE-SBS31_310_15
SAMPLE-SBS31_310_16
SAMPLE-SBS31_310_17
SAMPLE-SBS31_310_18
SAMPLE-SBS31_310_19
SAMPLE-SBS31_310_2
SAMPLE-SBS31_310_20
SAMPLE-SBS31_310_21
SAMPLE-SBS31_310_22
SAMPLE-SBS31_310_23
SAMPLE-SBS31_310_24
SAMPLE-SBS31_310_25
SAMPLE-SBS31_310_26
SAMPLE-SBS31_310_27
SAMPLE-SBS31_310_28
SAMPLE-SBS31_310_29
SAMPLE-SBS31_310_3
SAMPLE-SBS31_310_30
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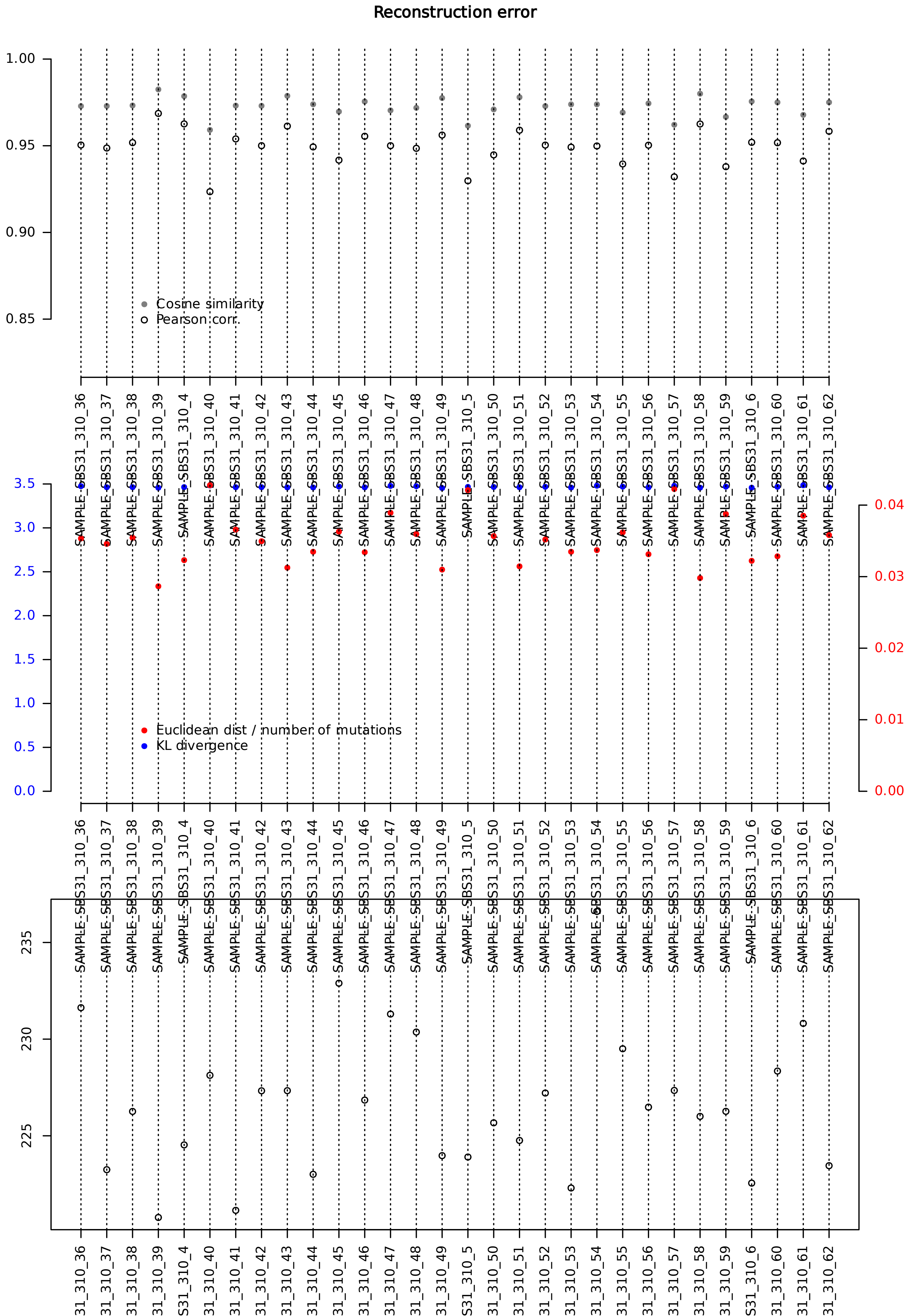
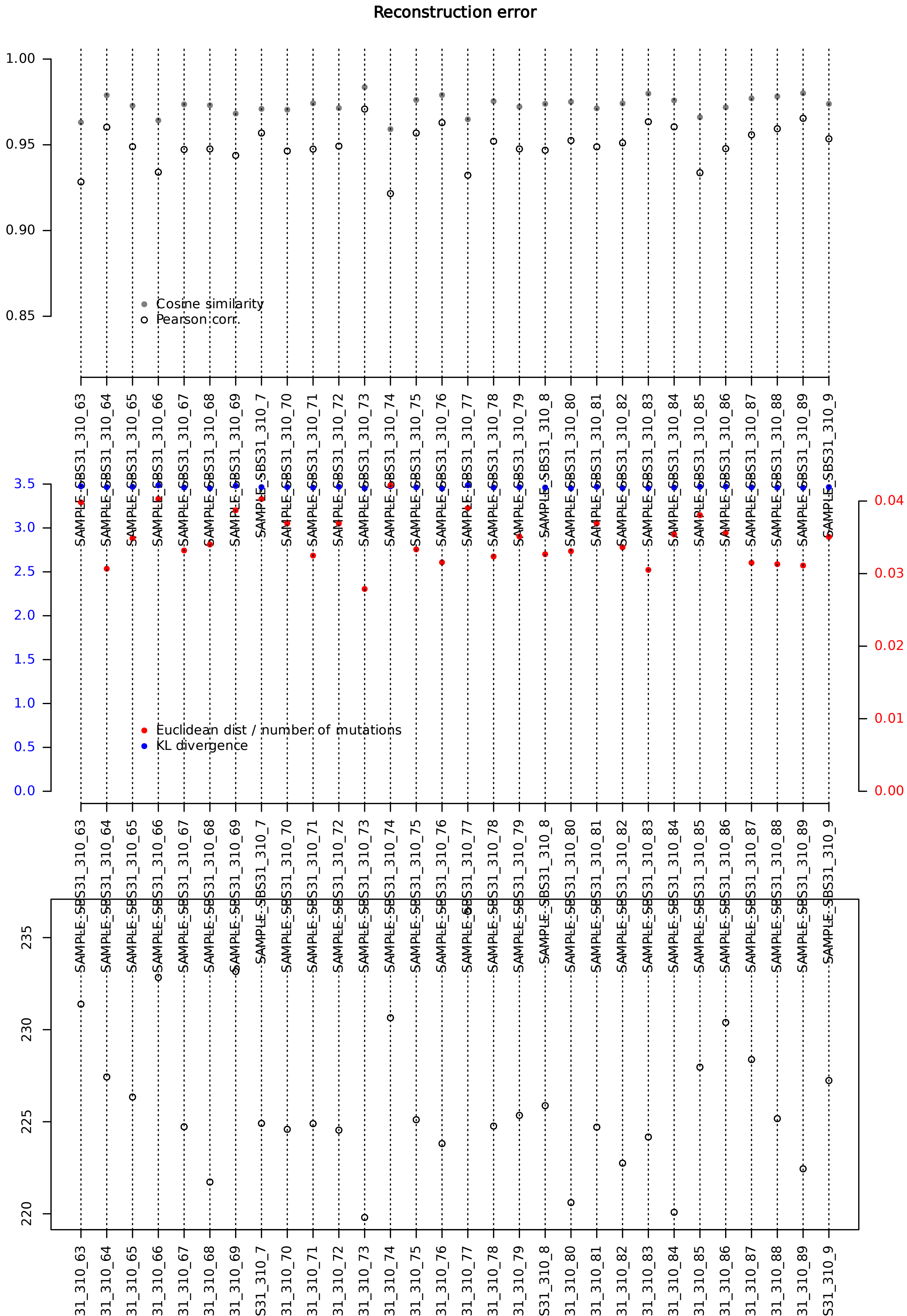
SAMPLE-SBS31_310_32
SAMPLE-SBS31_310_33
SAMPLE-SBS31_310_34
SAMPLE-SBS31_310_35


Reconstruction error


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
SAMPLE-SBS31_310_63
SAMPLE-SBS31_310_64
SAMPLE-SBS31_310_65
SAMPLE-SBS31_310_66
SAMPLE-SBS31_310_67
SAMPLE-SBS31_310_68
SAMPLE-SBS31_310_69
SAMPLE-SBS31_310_7
SAMPLE-SBS31_310_70
SAMPLE-SBS31_310_71
SAMPLE-SBS31_310_72
SAMPLE-SBS31_310_73
SAMPLE-SBS31_310_74
SAMPLE-SBS31_310_75
SAMPLE-SBS31_310_76
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SAMPLE-SBS31_310_78
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SAMPLE-SBS31_310_80
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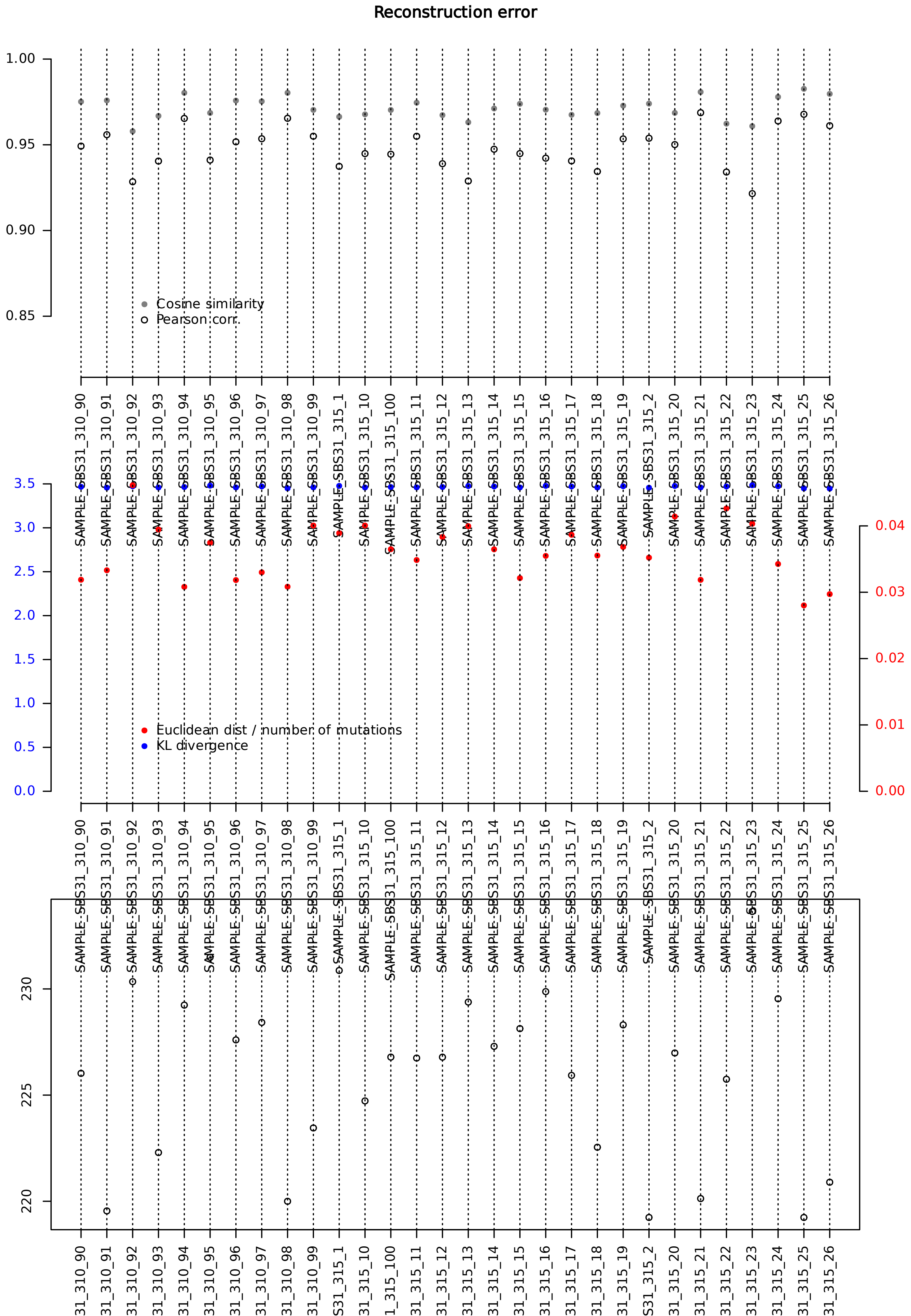
SAMPLE-SBS31_310_82
SAMPLE-SBS31_310_83
SAMPLE-SBS31_310_84
SAMPLE-SBS31_310_85
SAMPLE-SBS31_310_86
SAMPLE-SBS31_310_87
SAMPLE-SBS31_310_88
SAMPLE-SBS31_310_89
SAMPLE-SBS31_310_9
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
220


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
SAMPLE-SBS31_310_90
SAMPLE-SBS31_310_91
SAMPLE-SBS31_310_92
SAMPLE-SBS31_310_93
SAMPLE-SBS31_310_94
SAMPLE-SBS31_310_95
SAMPLE-SBS31_310_96
SAMPLE-SBS31_310_97
SAMPLE-SBS31_310_98
SAMPLE-SBS31_310_99
SAMPLE-SBS31_315_1
SAMPLE-SBS31_315_10
SAMPLE-SBS31_315_100
SAMPLE-SBS31_315_11
SAMPLE-SBS31_315_12
SAMPLE-SBS31_315_13
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SAMPLE-SBS31_315_15
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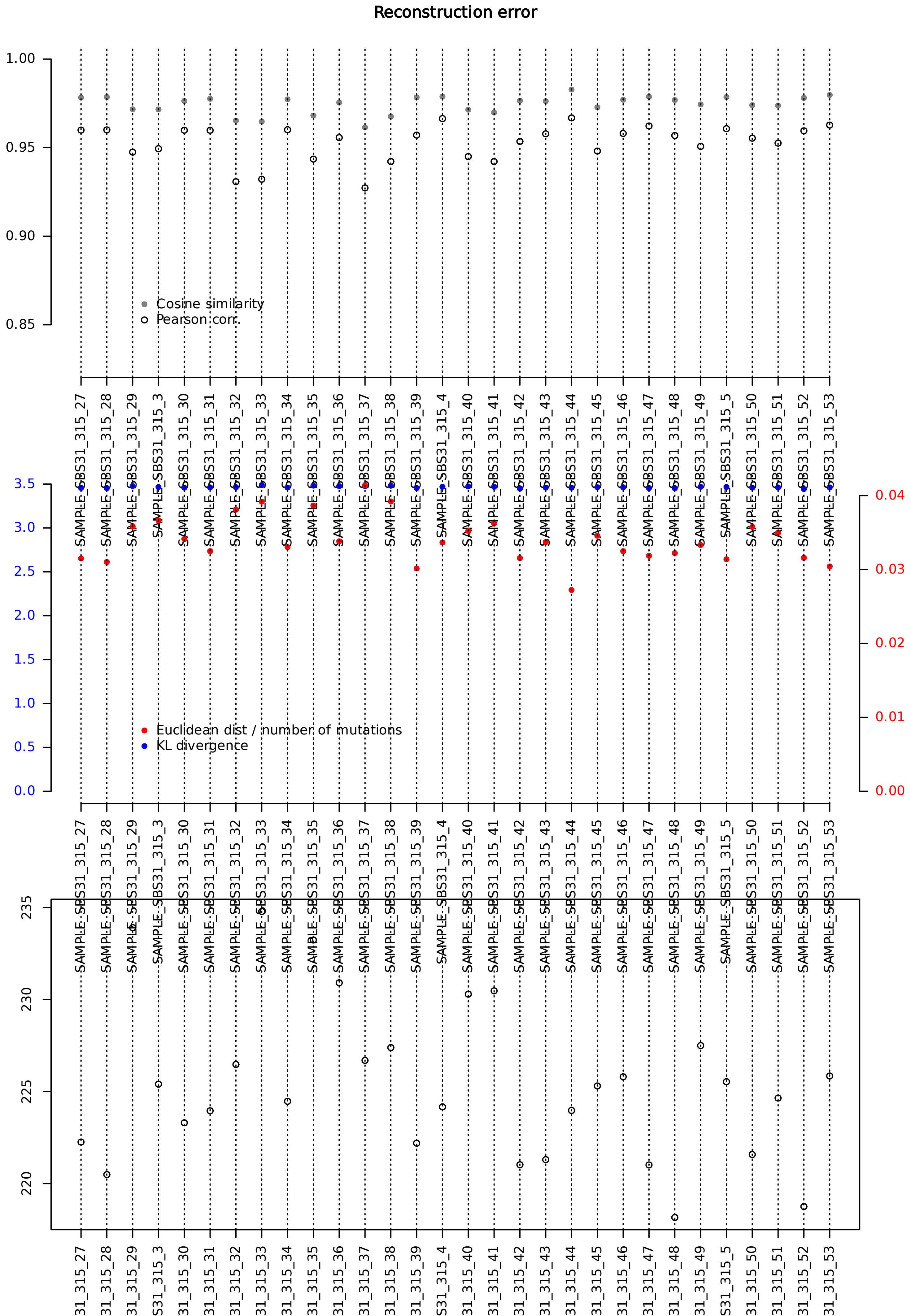
SAMPLE-SBS31_315_17
SAMPLE-SBS31_315_18
SAMPLE-SBS31_315_19
SAMPLE-SBS31_315_2
SAMPLE-SBS31_315_20
SAMPLE-SBS31_315_21
SAMPLE-SBS31_315_22
SAMPLE-SBS31_315_23
SAMPLE-SBS31_315_24
SAMPLE-SBS31_315_25
SAMPLE-SBS31_315_26
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
230
225
220


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
220
SAMPLE-SBS31_315_27
SAMPLE-SBS31_315_28
SAMPLE-SBS31_315_29
SAMPLE-SBS31_315_3
SAMPLE-SBS31_315_30
SAMPLE-SBS31_315_31
SAMPLE-SBS31_315_32
SAMPLE-SBS31_315_33
SAMPLE-SBS31_315_34
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SAMPLE-SBS31_315_39
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SAMPLE-SBS31_315_45
SAMPLE-SBS31_315_46
SAMPLE-SBS31_315_47
SAMPLE-SBS31_315_48
SAMPLE-SBS31_315_49
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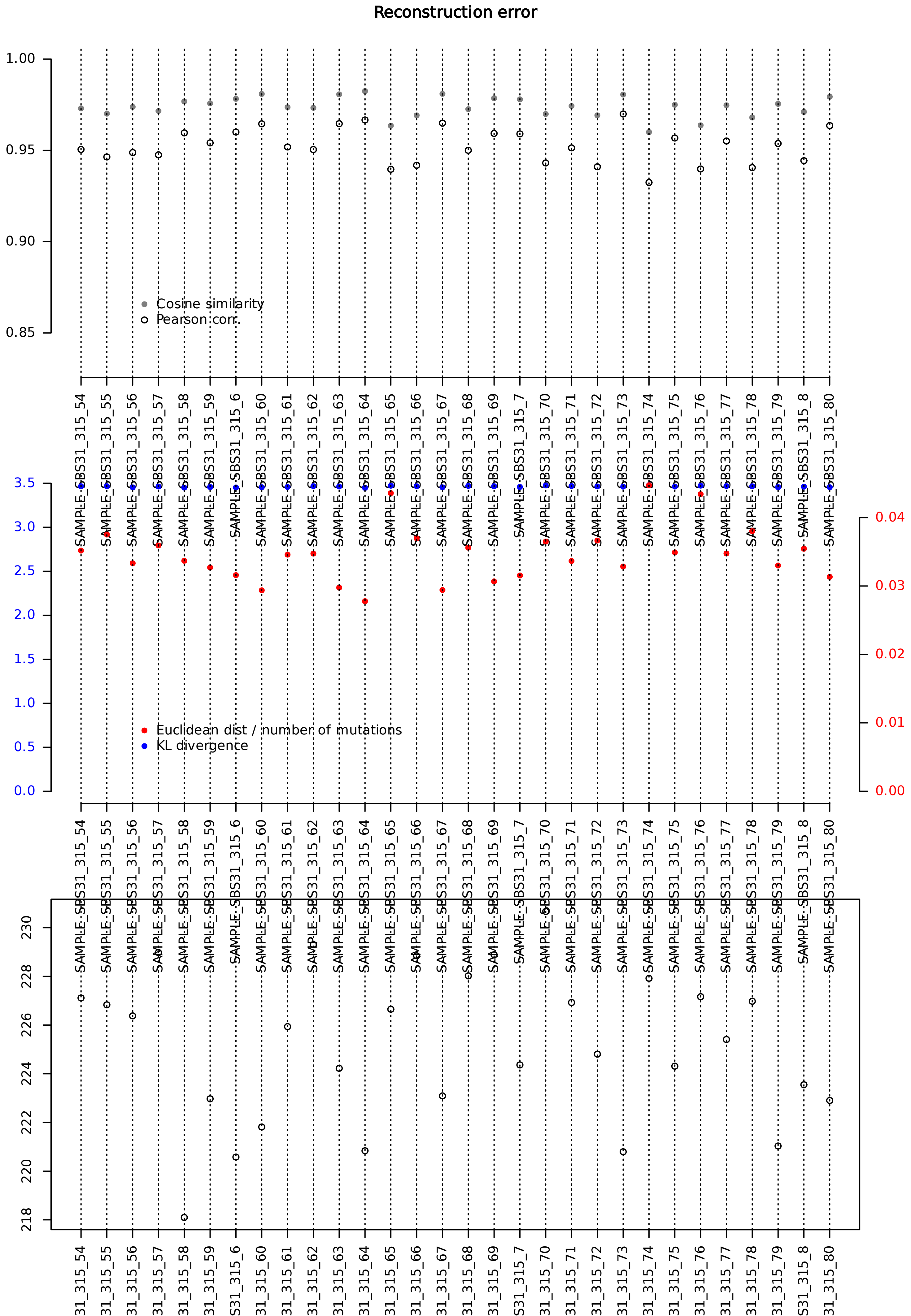
SAMPLE-SBS31_315_50
SAMPLE-SBS31_315_51
SAMPLE-SBS31_315_52
SAMPLE-SBS31_315_53


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
230
228
226
224
222
220
218
SAMPLE-SBS31_315_54
SAMPLE-SBS31_315_55
SAMPLE-SBS31_315_56
SAMPLE-SBS31_315_57
SAMPLE-SBS31_315_58
SAMPLE-SBS31_315_59
SAMPLE-SBS31_315_6
SAMPLE-SBS31_315_60
SAMPLE-SBS31_315_61
SAMPLE-SBS31_315_62
SAMPLE-SBS31_315_63
SAMPLE-SBS31_315_64
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SAMPLE-SBS31_315_67
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SAMPLE-SBS31_315_69
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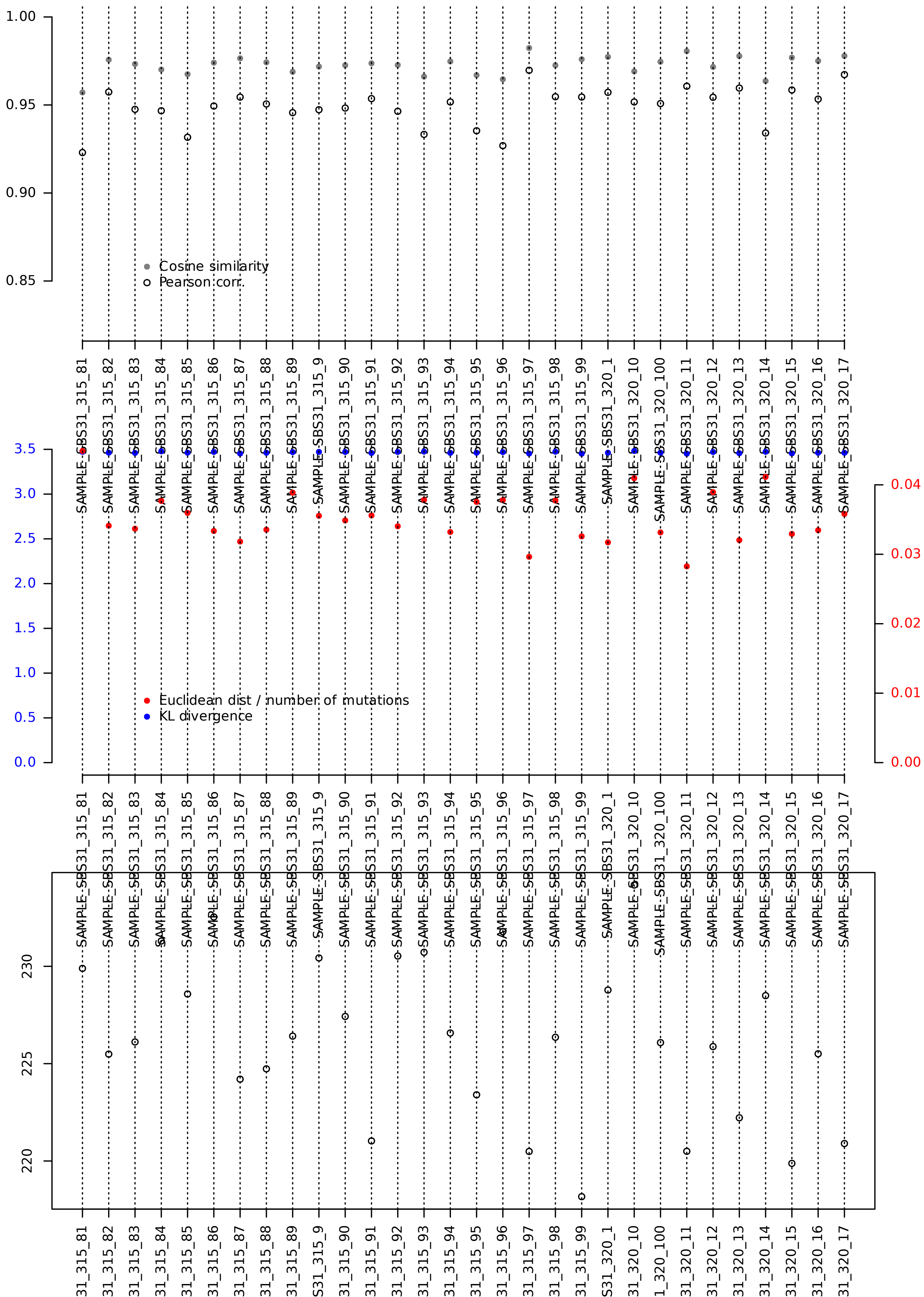
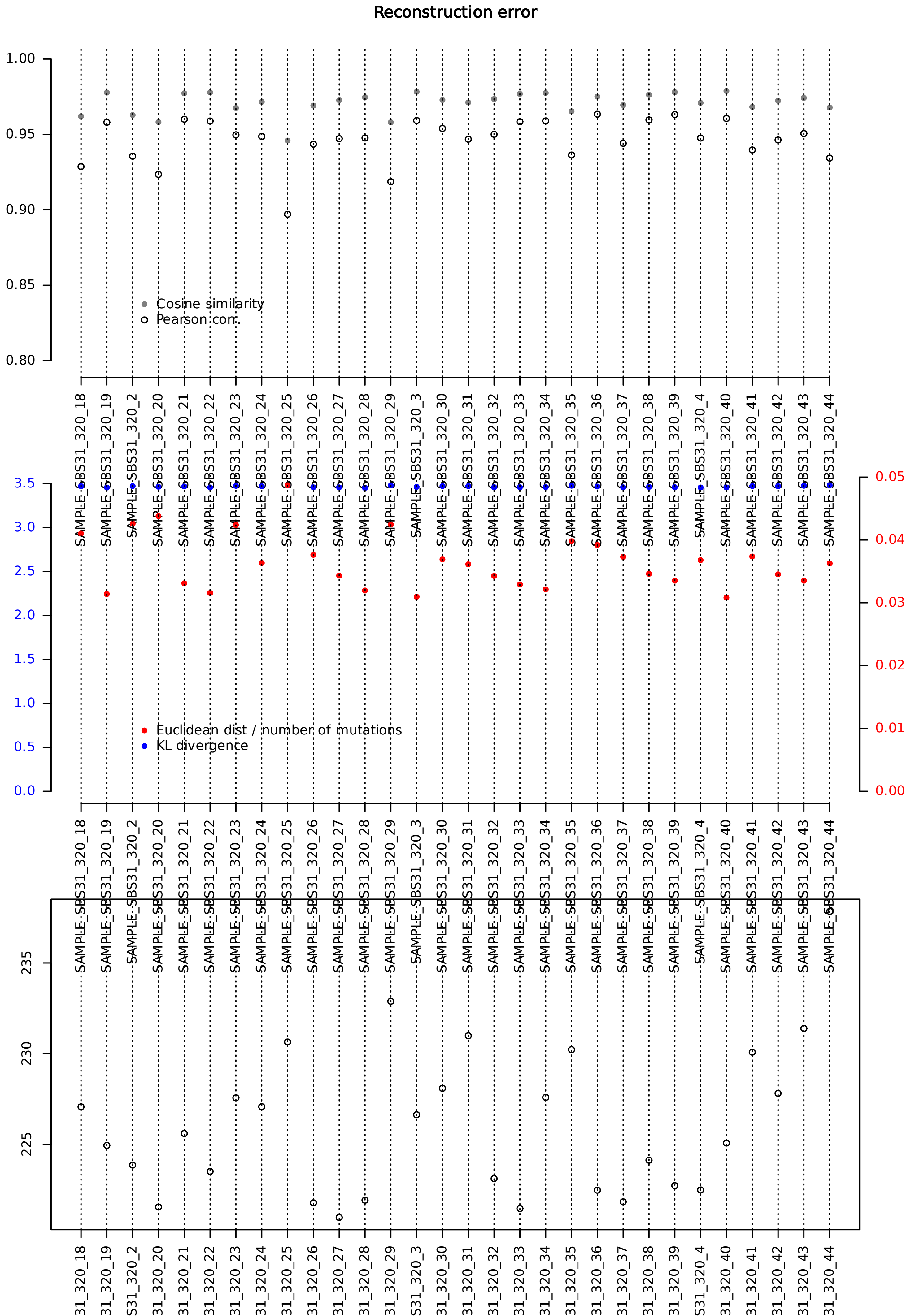
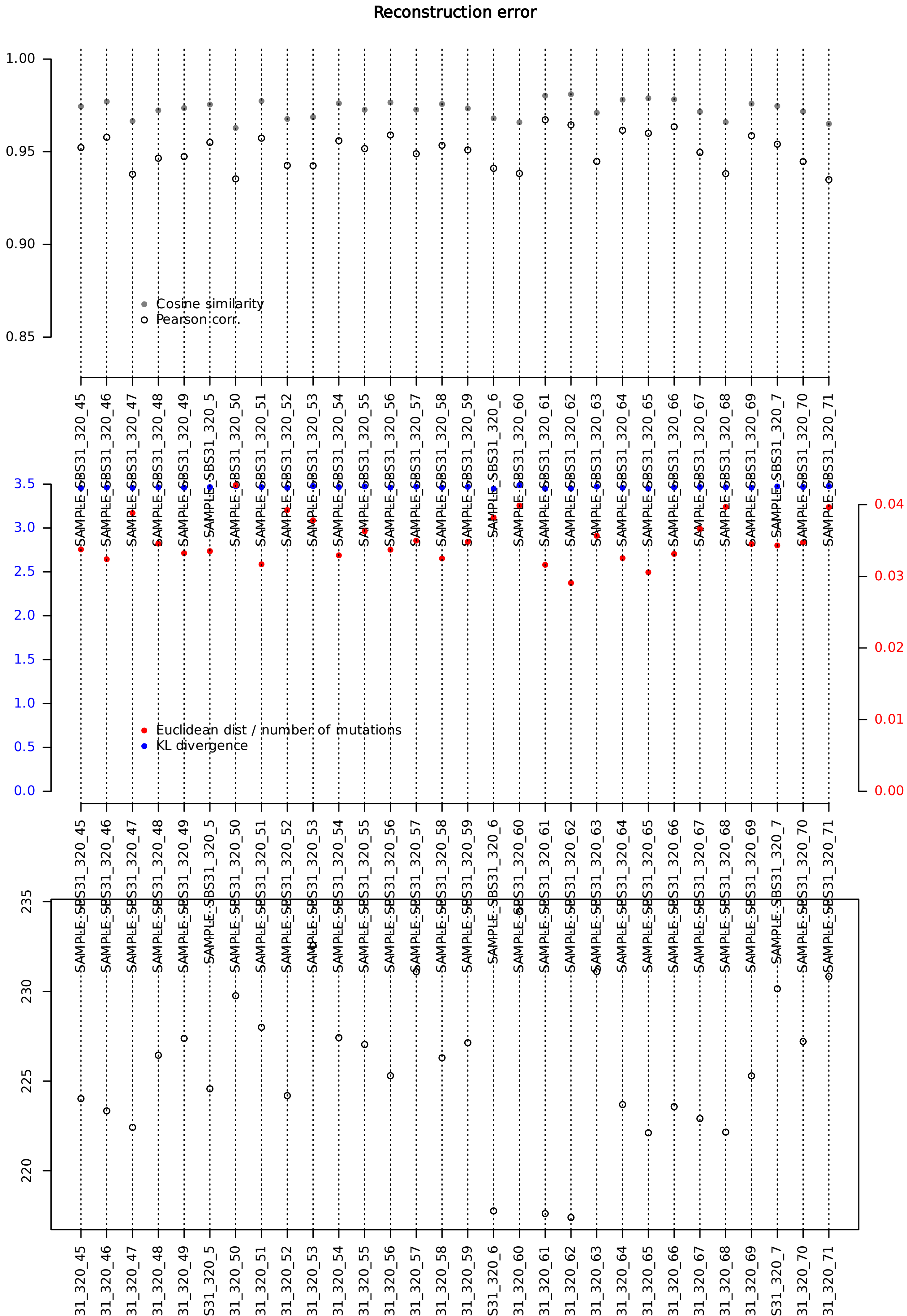
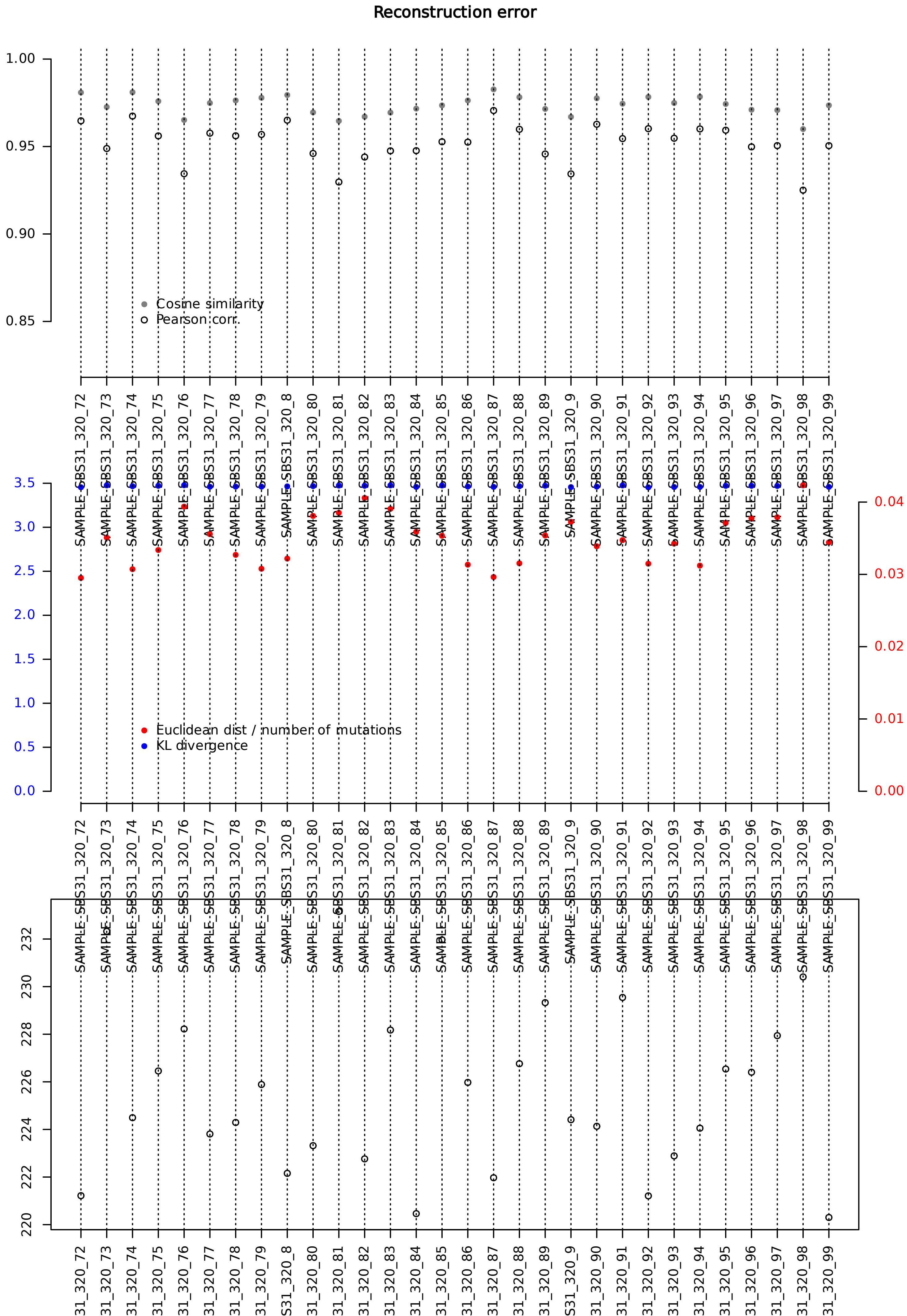
SAMPLE-SBS31_315_74
SAMPLE-SBS31_315_75
SAMPLE-SBS31_315_76
SAMPLE-SBS31_315_77
SAMPLE-SBS31_315_78
SAMPLE-SBS31_315_79
SAMPLE-SBS31_315_8
SAMPLE-SBS31_315_80

Reconstruction error




Reconstruction error
1.00
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.05
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
SAMPLE-SBS31_320_18
SAMPLE-SBS31_320_19
SAMPLE-SBS31_320_2
SAMPLE-SBS31_320_20
SAMPLE-SBS31_320_21
SAMPLE-SBS31_320_22
SAMPLE-SBS31_320_23
SAMPLE-SBS31_320_24
SAMPLE-SBS31_320_25
SAMPLE-SBS31_320_26
SAMPLE-SBS31_320_27
SAMPLE-SBS31_320_28
SAMPLE-SBS31_320_29
SAMPLE-SBS31_320_3
SAMPLE-SBS31_320_30
SAMPLE-SBS31_320_31
SAMPLE-SBS31_320_32
SAMPLE-SBS31_320_33
SAMPLE-SBS31_320_34
SAMPLE-SBS31_320_35
SAMPLE-SBS31_320_36
SAMPLE-SBS31_320_37
SAMPLE-SBS31_320_38
SAMPLE-SBS31_320_39
SAMPLE-SBS31_320_4
SAMPLE-SBS31_320_40
SAMPLE-SBS31_320_41
SAMPLE-SBS31_320_42
SAMPLE-SBS31_320_43
SAMPLE-SBS31_320_44


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
SAMPLE-SBS31_320_45
SAMPLE-SBS31_320_46
SAMPLE-SBS31_320_47
SAMPLE-SBS31_320_48
SAMPLE-SBS31_320_49
SAMPLE-SBS31_320_5
SAMPLE-SBS31_320_50
SAMPLE-SBS31_320_51
SAMPLE-SBS31_320_52
SAMPLE-SBS31_320_53
SAMPLE-SBS31_320_54
SAMPLE-SBS31_320_55
SAMPLE-SBS31_320_56
SAMPLE-SBS31_320_57
SAMPLE-SBS31_320_58
SAMPLE-SBS31_320_59
SAMPLE-SBS31_320_6
SAMPLE-SBS31_320_60
SAMPLE-SBS31_320_61
SAMPLE-SBS31_320_62
SAMPLE-SBS31_320_63
SAMPLE-SBS31_320_64
SAMPLE-SBS31_320_65
SAMPLE-SBS31_320_66
SAMPLE-SBS31_320_67
SAMPLE-SBS31_320_68
SAMPLE-SBS31_320_69
SAMPLE-SBS31_320_7
SAMPLE-SBS31_320_70
SAMPLE-SBS31_320_71
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
220


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
232
230
228
226
224
222
220
SAMPLE-SBS31_320_72
SAMPLE-SBS31_320_73
SAMPLE-SBS31_320_74
SAMPLE-SBS31_320_75
SAMPLE-SBS31_320_76
SAMPLE-SBS31_320_77
SAMPLE-SBS31_320_78
SAMPLE-SBS31_320_79
SAMPLE-SBS31_320_8
SAMPLE-SBS31_320_80
SAMPLE-SBS31_320_81
SAMPLE-SBS31_320_82
SAMPLE-SBS31_320_83
SAMPLE-SBS31_320_84
SAMPLE-SBS31_320_85
SAMPLE-SBS31_320_86
SAMPLE-SBS31_320_87
SAMPLE-SBS31_320_88
SAMPLE-SBS31_320_89
SAMPLE-SBS31_320_9
SAMPLE-SBS31_320_90
SAMPLE-SBS31_320_91
SAMPLE-SBS31_320_92
SAMPLE-SBS31_320_93
SAMPLE-SBS31_320_94
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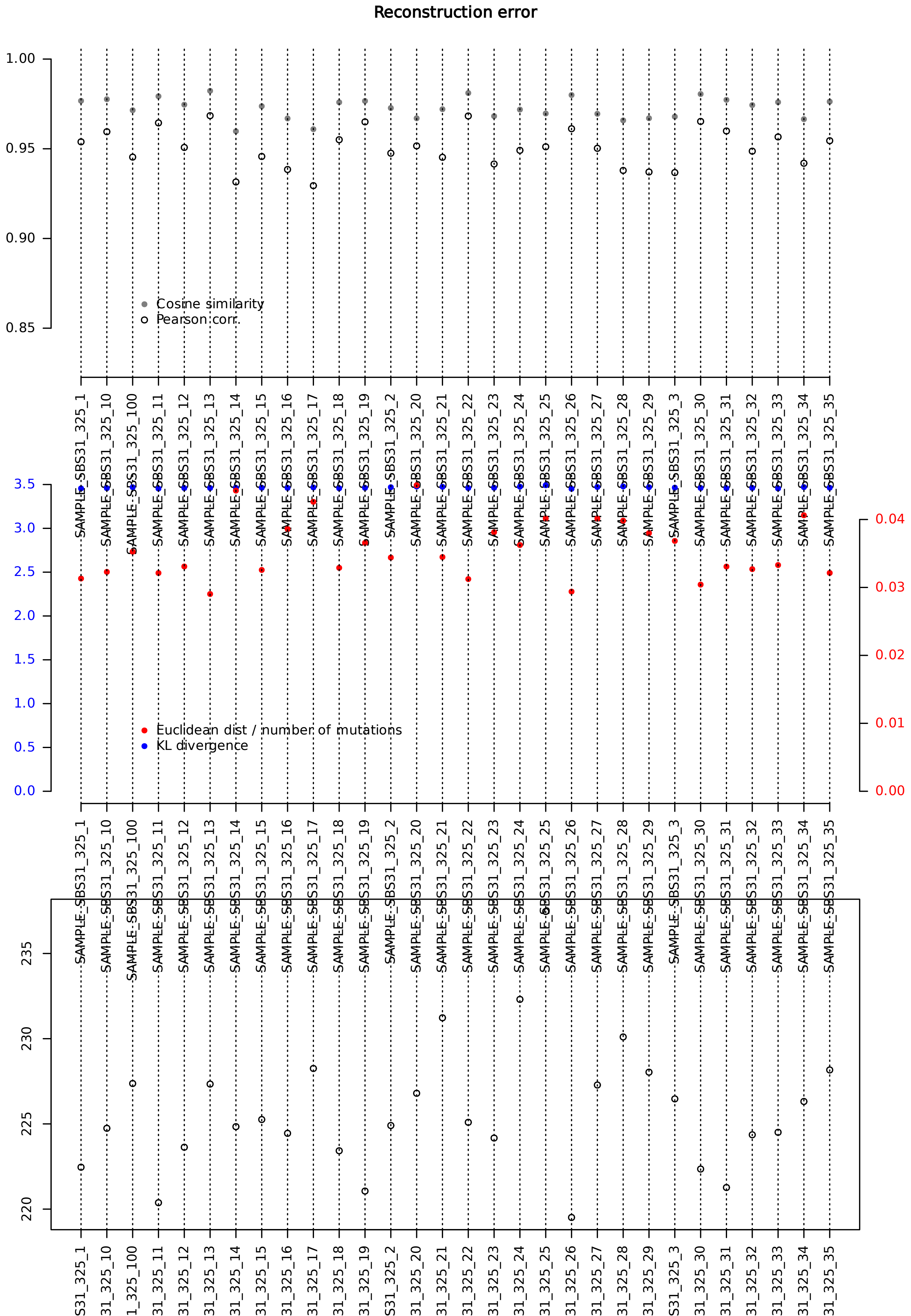
SAMPLE-SBS31_320_96
SAMPLE-SBS31_320_97
SAMPLE-SBS31_320_98
SAMPLE-SBS31_320_99


Reconstruction error
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0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
220
SAMPLE-SBS31_325_1
SAMPLE-SBS31_325_10
SAMPLE-SBS31_325_100
SAMPLE-SBS31_325_11
SAMPLE-SBS31_325_12
SAMPLE-SBS31_325_13
SAMPLE-SBS31_325_14
SAMPLE-SBS31_325_15
SAMPLE-SBS31_325_16
SAMPLE-SBS31_325_17
SAMPLE-SBS31_325_18
SAMPLE-SBS31_325_19
SAMPLE-SBS31_325_2
SAMPLE-SBS31_325_20
SAMPLE-SBS31_325_21
SAMPLE-SBS31_325_22
SAMPLE-SBS31_325_23
SAMPLE-SBS31_325_24
SAMPLE-SBS31_325_25
SAMPLE-SBS31_325_26
SAMPLE-SBS31_325_27
SAMPLE-SBS31_325_28
SAMPLE-SBS31_325_29
SAMPLE-SBS31_325_3
SAMPLE-SBS31_325_30
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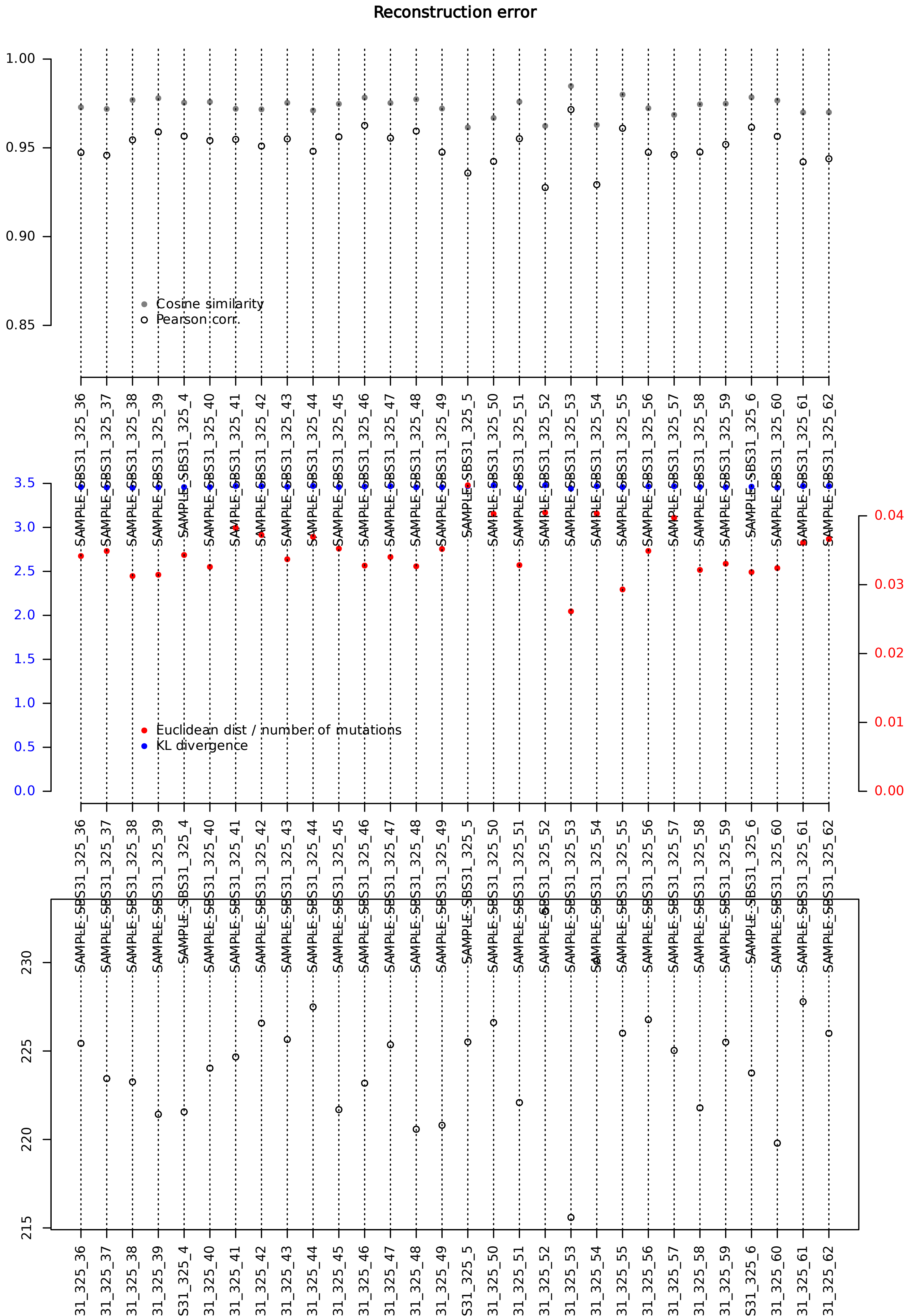
SAMPLE-SBS31_325_32
SAMPLE-SBS31_325_33
SAMPLE-SBS31_325_34
SAMPLE-SBS31_325_35


Reconstruction error
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0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
230
225
220
215
SAMPLE-SBS31_325_36
SAMPLE-SBS31_325_37
SAMPLE-SBS31_325_38
SAMPLE-SBS31_325_39
SAMPLE-SBS31_325_4
SAMPLE-SBS31_325_40
SAMPLE-SBS31_325_41
SAMPLE-SBS31_325_42
SAMPLE-SBS31_325_43
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SAMPLE-SBS31_325_46
SAMPLE-SBS31_325_47
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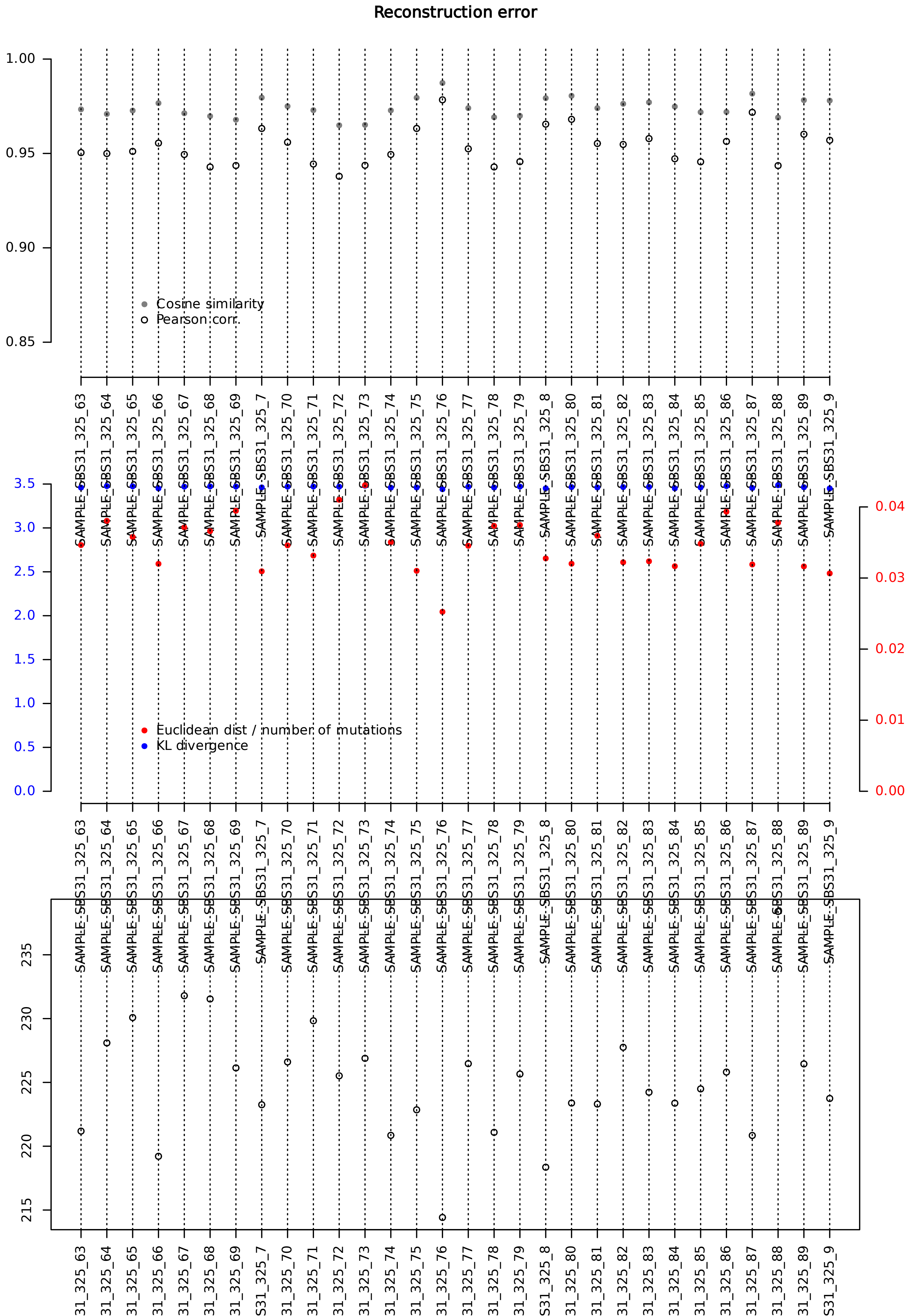
SAMPLE-SBS31_325_49
SAMPLE-SBS31_325_5
SAMPLE-SBS31_325_50
SAMPLE-SBS31_325_51
SAMPLE-SBS31_325_52
SAMPLE-SBS31_325_53
SAMPLE-SBS31_325_54
SAMPLE-SBS31_325_55
SAMPLE-SBS31_325_56
SAMPLE-SBS31_325_57
SAMPLE-SBS31_325_58
SAMPLE-SBS31_325_59
SAMPLE-SBS31_325_6
SAMPLE-SBS31_325_60
SAMPLE-SBS31_325_61
SAMPLE-SBS31_325_62


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
220
215
SAMPLE_SBS31_325_63
SAMPLE_SBS31_325_64
SAMPLE_SBS31_325_65
SAMPLE_SBS31_325_66
SAMPLE_SBS31_325_67
SAMPLE_SBS31_325_68
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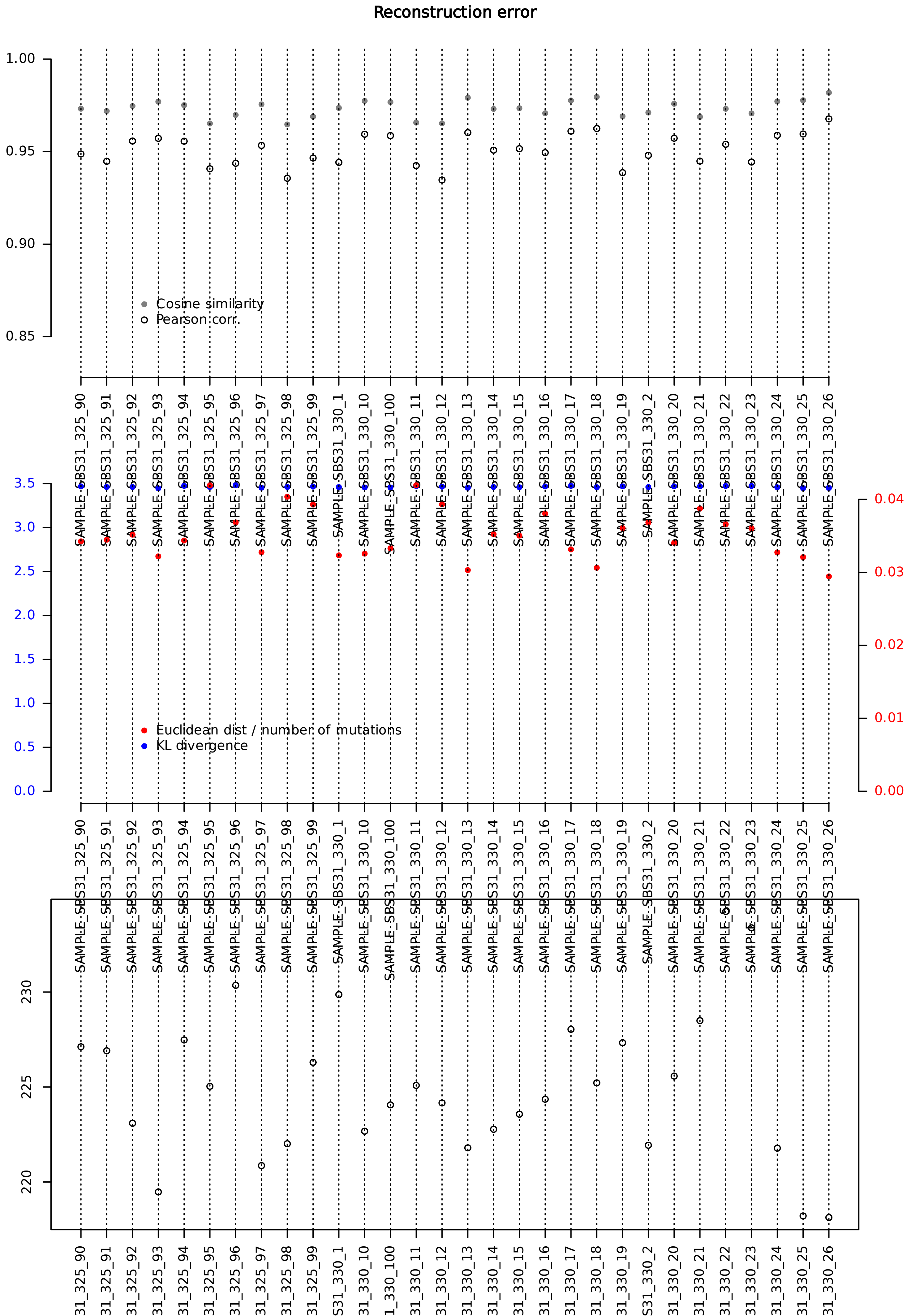
SAMPLE_SBS31_325_83
SAMPLE_SBS31_325_84
SAMPLE_SBS31_325_85
SAMPLE_SBS31_325_86
SAMPLE_SBS31_325_87
SAMPLE_SBS31_325_88
SAMPLE_SBS31_325_89
SAMPLE_SBS31_325_9


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
230
225
220
SAMPLE-SBS31_325_90
SAMPLE-SBS31_325_91
SAMPLE-SBS31_325_92
SAMPLE-SBS31_325_93
SAMPLE-SBS31_325_94
SAMPLE-SBS31_325_95
SAMPLE-SBS31_325_96
SAMPLE-SBS31_325_97
SAMPLE-SBS31_325_98
SAMPLE-SBS31_325_99
SAMPLE-SBS31_330_1
SAMPLE-SBS31_330_10
SAMPLE-SBS31_330_100
SAMPLE-SBS31_330_11
SAMPLE-SBS31_330_12
SAMPLE-SBS31_330_13
SAMPLE-SBS31_330_14
SAMPLE-SBS31_330_15
SAMPLE-SBS31_330_16
SAMPLE-SBS31_330_17
SAMPLE-SBS31_330_18
SAMPLE-SBS31_330_19
SAMPLE-SBS31_330_2
SAMPLE-SBS31_330_20
SAMPLE-SBS31_330_21
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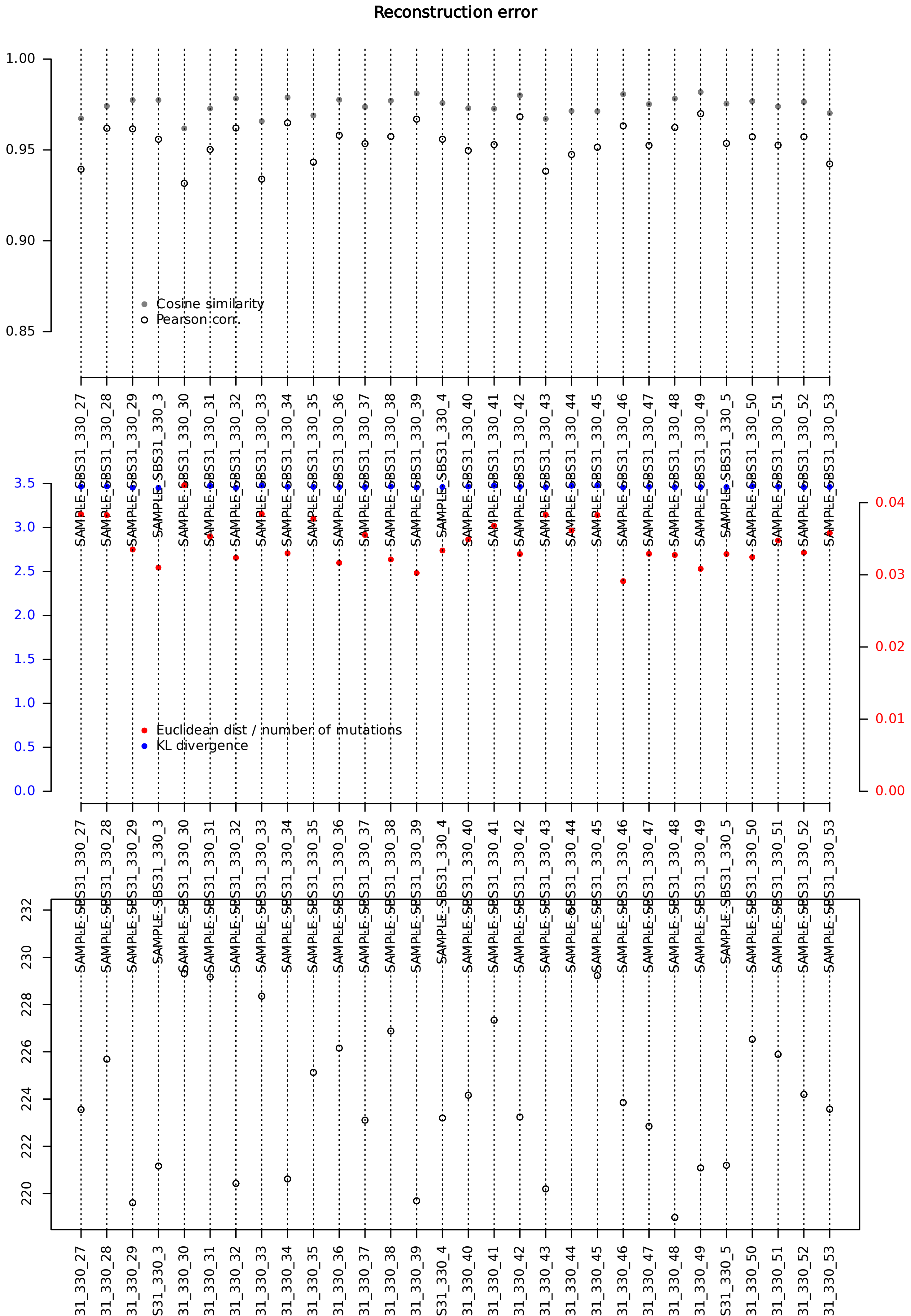
SAMPLE-SBS31_330_23
SAMPLE-SBS31_330_24
SAMPLE-SBS31_330_25
SAMPLE-SBS31_330_26


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
232
230
228
226
224
222
220
SAMPLE-SBS31_330_27
SAMPLE-SBS31_330_28
SAMPLE-SBS31_330_29
SAMPLE-SBS31_330_3
SAMPLE-SBS31_330_30
SAMPLE-SBS31_330_31
SAMPLE-SBS31_330_32
SAMPLE-SBS31_330_33
SAMPLE-SBS31_330_34
SAMPLE-SBS31_330_35
SAMPLE-SBS31_330_36
SAMPLE-SBS31_330_37
SAMPLE-SBS31_330_38
SAMPLE-SBS31_330_39
SAMPLE-SBS31_330_4
SAMPLE-SBS31_330_40
SAMPLE-SBS31_330_41
SAMPLE-SBS31_330_42
SAMPLE-SBS31_330_43
SAMPLE-SBS31_330_44
SAMPLE-SBS31_330_45
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SAMPLE-SBS31_330_48
SAMPLE-SBS31_330_49
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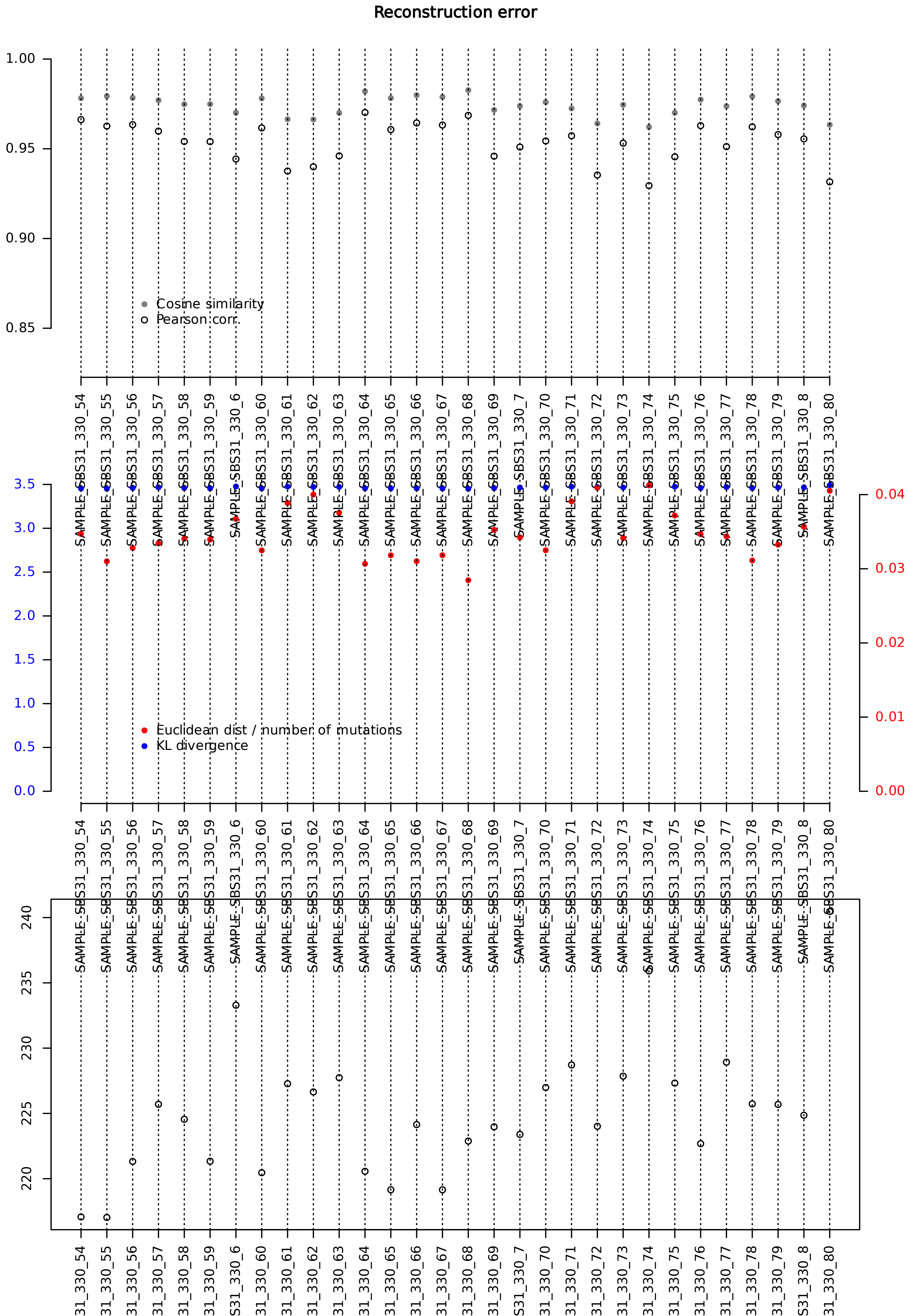
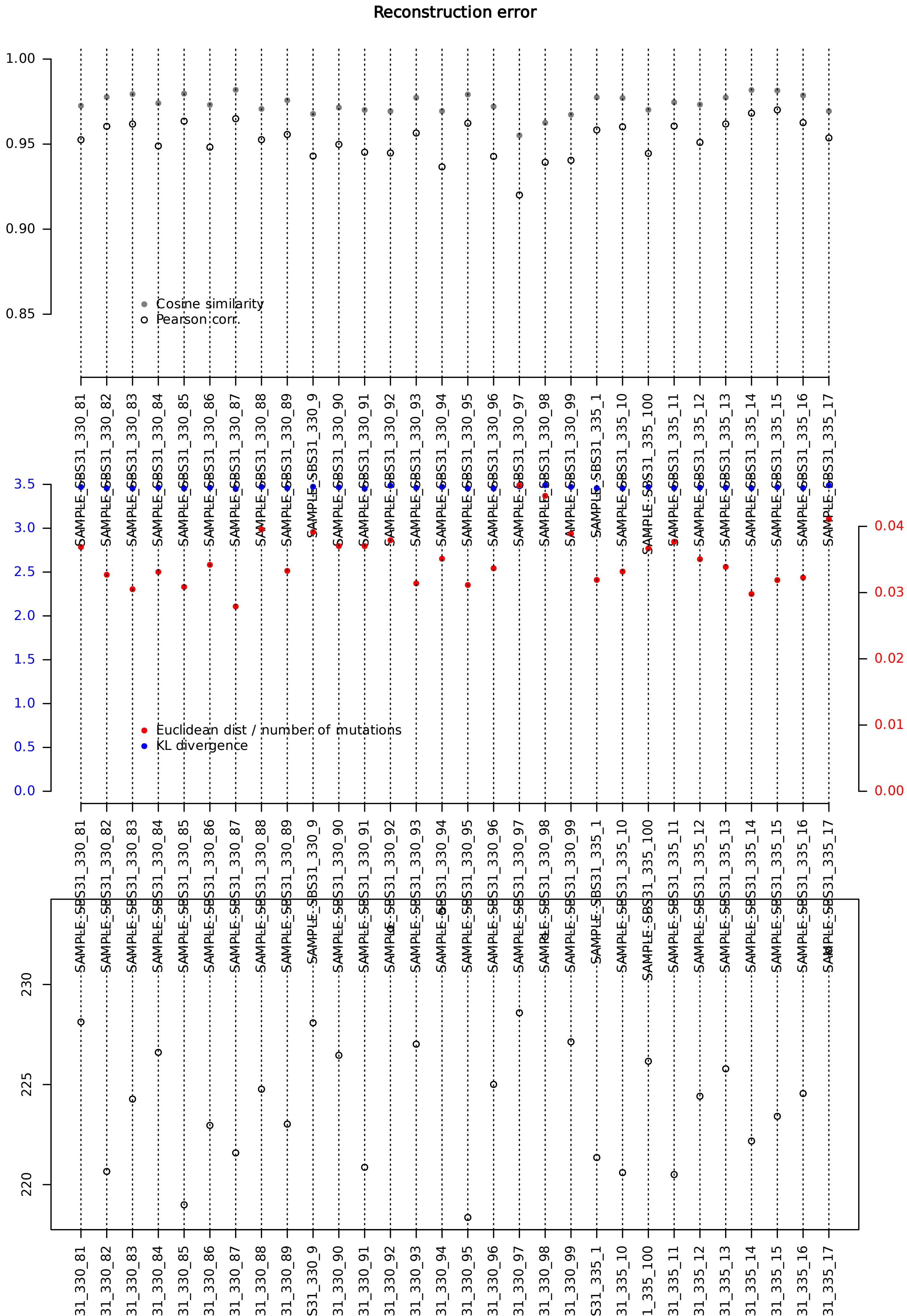
SAMPLE-SBS31_330_51
SAMPLE-SBS31_330_52
SAMPLE-SBS31_330_53


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
240
235
230
225
220
SAMPLE-SBS31_330_54
SAMPLE-SBS31_330_55
SAMPLE-SBS31_330_56
SAMPLE-SBS31_330_57
SAMPLE-SBS31_330_58
SAMPLE-SBS31_330_59
SAMPLE-SBS31_330_6
SAMPLE-SBS31_330_60
SAMPLE-SBS31_330_61
SAMPLE-SBS31_330_62
SAMPLE-SBS31_330_63
SAMPLE-SBS31_330_64
SAMPLE-SBS31_330_65
SAMPLE-SBS31_330_66
SAMPLE-SBS31_330_67
SAMPLE-SBS31_330_68
SAMPLE-SBS31_330_69
SAMPLE-SBS31_330_7
SAMPLE-SBS31_330_70
SAMPLE-SBS31_330_71
SAMPLE-SBS31_330_72
SAMPLE-SBS31_330_73
SAMPLE-SBS31_330_74
SAMPLE-SBS31_330_75
SAMPLE-SBS31_330_76
SAMPLE-SBS31_330_77
SAMPLE-SBS31_330_78
SAMPLE-SBS31_330_79
SAMPLE-SBS31_330_8
SAMPLE-SBS31_330_80


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
230
225
220
SAMPLE-SBS31_330_81
SAMPLE-SBS31_330_82
SAMPLE-SBS31_330_83
SAMPLE-SBS31_330_84
SAMPLE-SBS31_330_85
SAMPLE-SBS31_330_86
SAMPLE-SBS31_330_87
SAMPLE-SBS31_330_88
SAMPLE-SBS31_330_89
SAMPLE-SBS31_330_9
SAMPLE-SBS31_330_90
SAMPLE-SBS31_330_91
SAMPLE-SBS31_330_92
SAMPLE-SBS31_330_93
SAMPLE-SBS31_330_94
SAMPLE-SBS31_330_95
SAMPLE-SBS31_330_96
SAMPLE-SBS31_330_97
SAMPLE-SBS31_330_98
SAMPLE-SBS31_330_99
SAMPLE-SBS31_335_1
SAMPLE-SBS31_335_10
SAMPLE-SBS31_335_100
SAMPLE-SBS31_335_11
SAMPLE-SBS31_335_12
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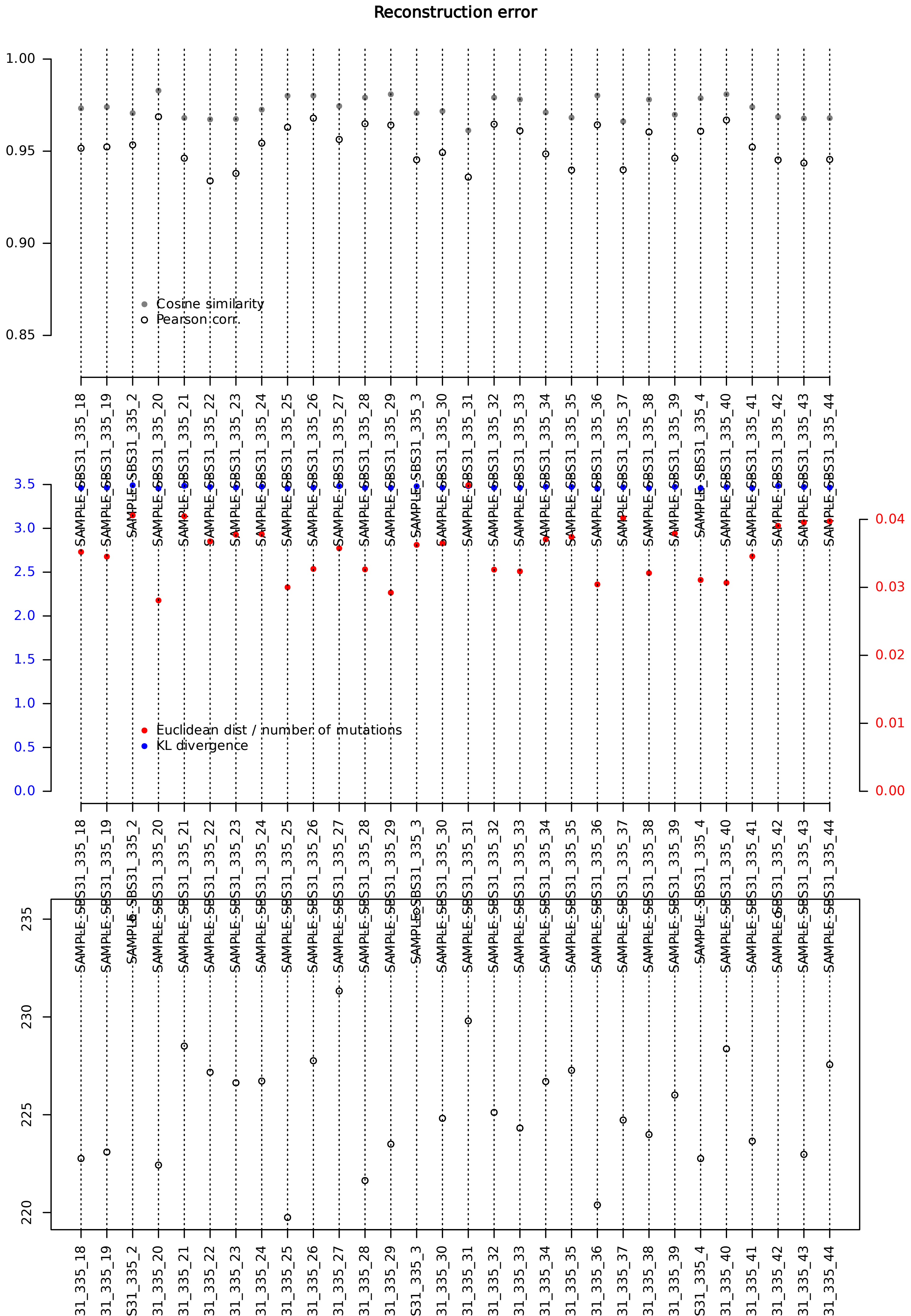
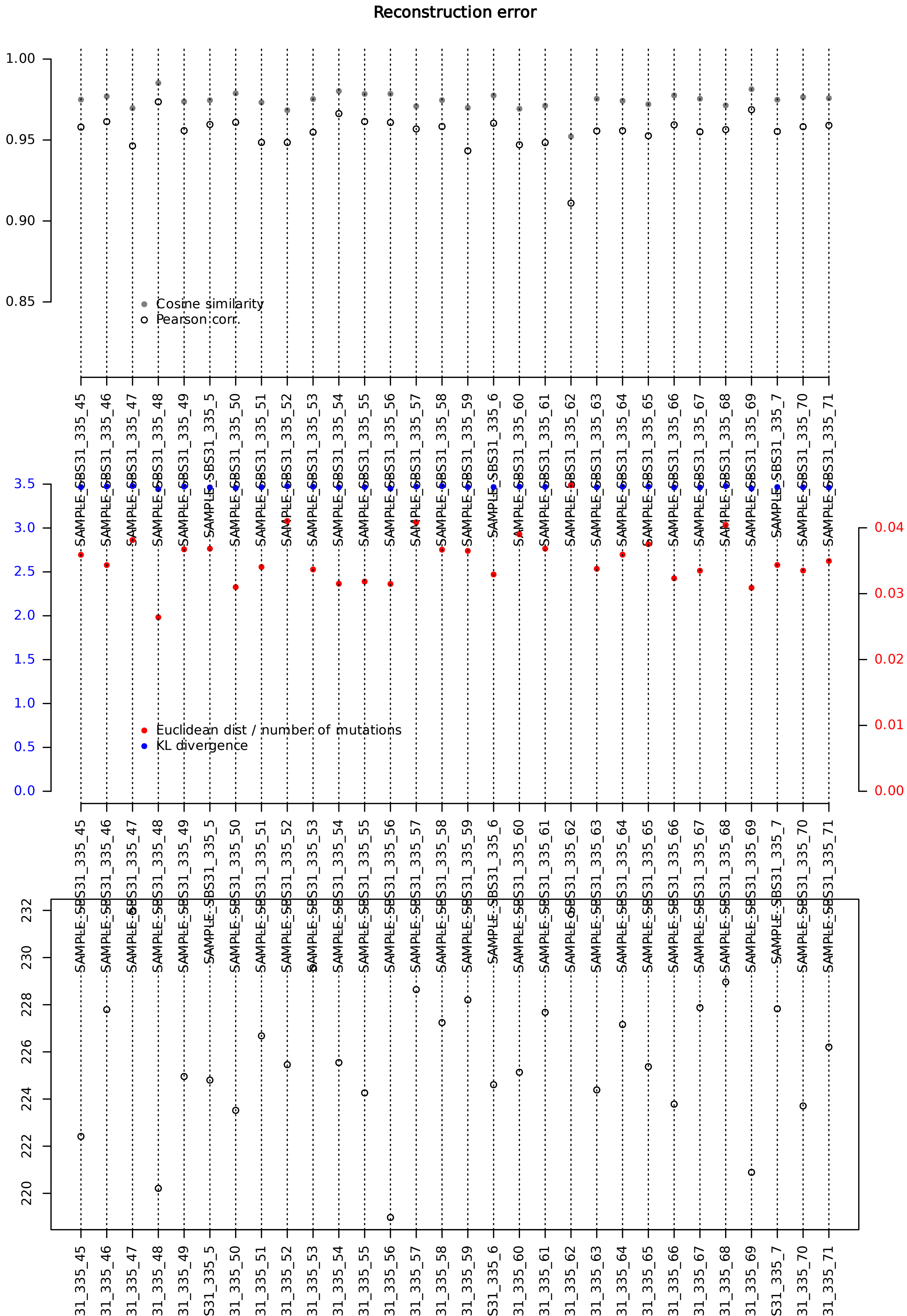
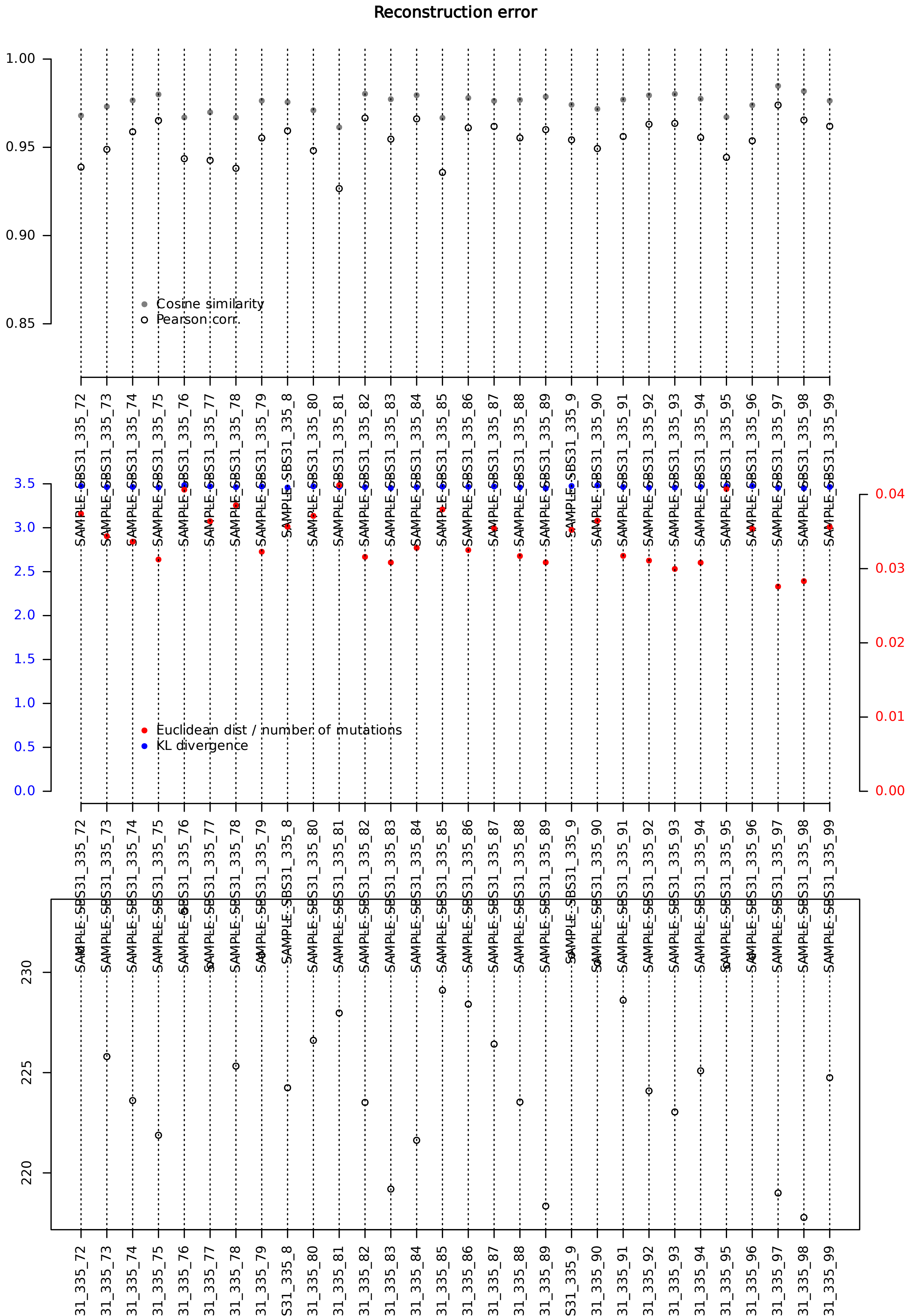
SAMPLE-SBS31_335_16
SAMPLE-SBS31_335_17


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
SAMPLE-SBS31_335_18
SAMPLE-SBS31_335_19
SAMPLE-SBS31_335_2
SAMPLE-SBS31_335_20
SAMPLE-SBS31_335_21
SAMPLE-SBS31_335_22
SAMPLE-SBS31_335_23
SAMPLE-SBS31_335_24
SAMPLE-SBS31_335_25
SAMPLE-SBS31_335_26
SAMPLE-SBS31_335_27
SAMPLE-SBS31_335_28
SAMPLE-SBS31_335_29
SAMPLE-SBS31_335_3
SAMPLE-SBS31_335_30
SAMPLE-SBS31_335_31
SAMPLE-SBS31_335_32
SAMPLE-SBS31_335_33
SAMPLE-SBS31_335_34
SAMPLE-SBS31_335_35
SAMPLE-SBS31_335_36
SAMPLE-SBS31_335_37
SAMPLE-SBS31_335_38
SAMPLE-SBS31_335_39
SAMPLE-SBS31_335_4
SAMPLE-SBS31_335_40
SAMPLE-SBS31_335_41
SAMPLE-SBS31_335_42
SAMPLE-SBS31_335_43
SAMPLE-SBS31_335_44
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
220


Reconstruction error
1.00
0.95
0.90
0.85
● Cosine similarity
○ Pearson corr.
SAMPLE-SBS31_335_45
SAMPLE-SBS31_335_46
SAMPLE-SBS31_335_47
SAMPLE-SBS31_335_48
SAMPLE-SBS31_335_49
SAMPLE-SBS31_335_5
SAMPLE-SBS31_335_50
SAMPLE-SBS31_335_51
SAMPLE-SBS31_335_52
SAMPLE-SBS31_335_53
SAMPLE-SBS31_335_54
SAMPLE-SBS31_335_55
SAMPLE-SBS31_335_56
SAMPLE-SBS31_335_57
SAMPLE-SBS31_335_58
SAMPLE-SBS31_335_59
SAMPLE-SBS31_335_6
SAMPLE-SBS31_335_60
SAMPLE-SBS31_335_61
SAMPLE-SBS31_335_62
SAMPLE-SBS31_335_63
SAMPLE-SBS31_335_64
SAMPLE-SBS31_335_65
SAMPLE-SBS31_335_66
SAMPLE-SBS31_335_67
SAMPLE-SBS31_335_68
SAMPLE-SBS31_335_69
SAMPLE-SBS31_335_7
SAMPLE-SBS31_335_70
SAMPLE-SBS31_335_71
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
● Euclidean dist / number of mutations
● KL divergence
232
230
228
226
224
222
220


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
SAMPLE-SBS31_335_72
SAMPLE-SBS31_335_73
SAMPLE-SBS31_335_74
SAMPLE-SBS31_335_75
SAMPLE-SBS31_335_76
SAMPLE-SBS31_335_77
SAMPLE-SBS31_335_78
SAMPLE-SBS31_335_79
SAMPLE-SBS31_335_8
SAMPLE-SBS31_335_80
SAMPLE-SBS31_335_81
SAMPLE-SBS31_335_82
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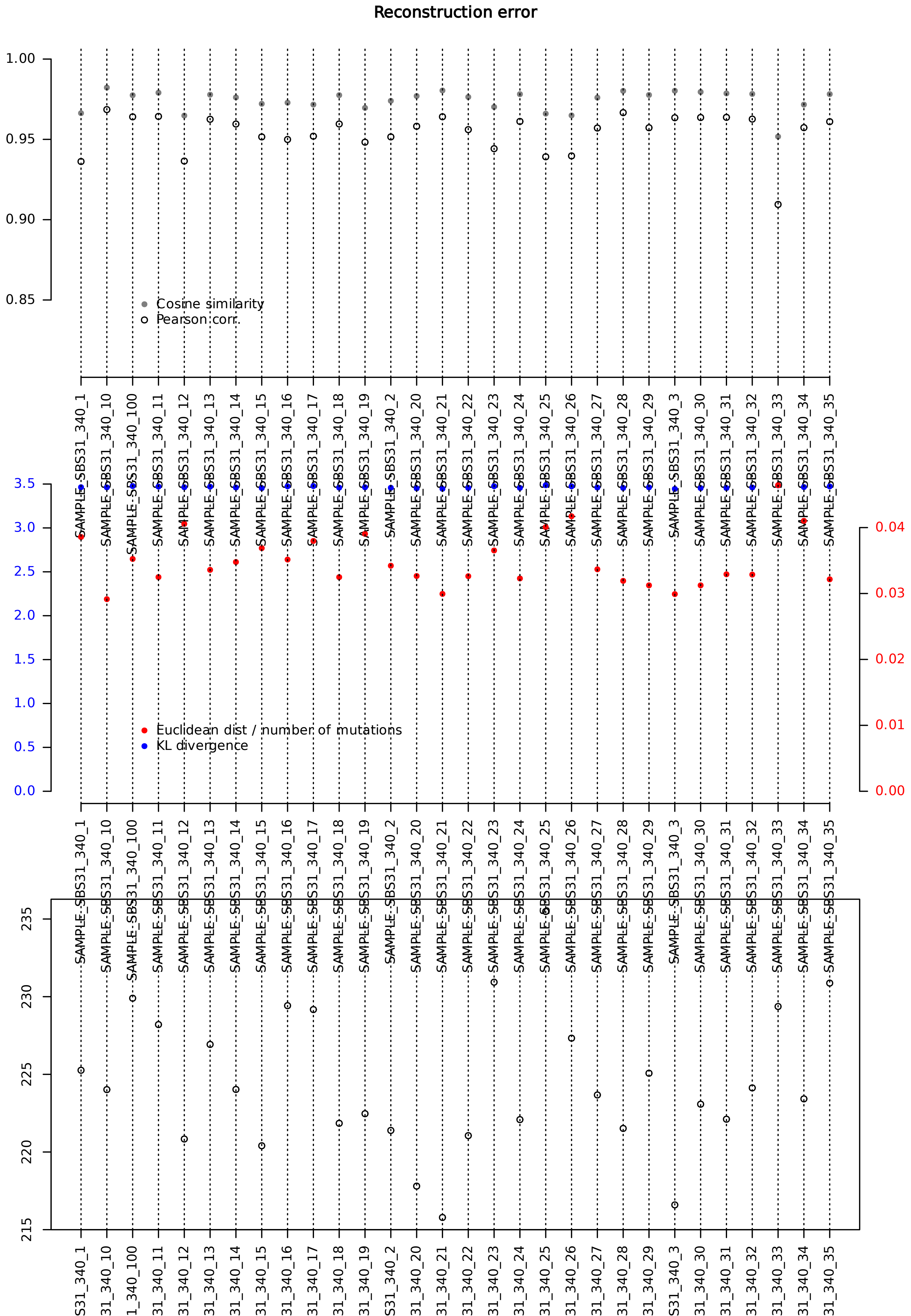
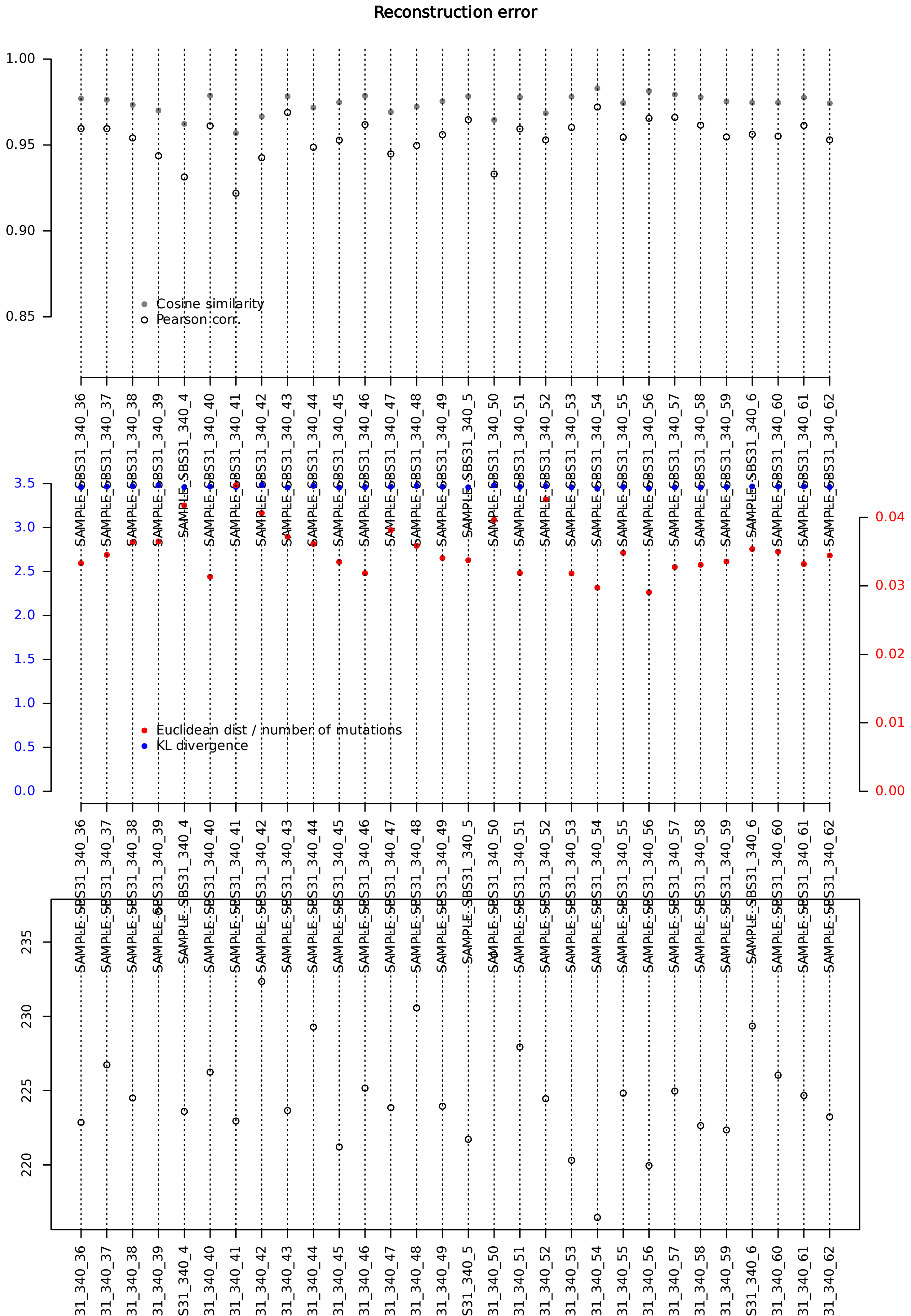
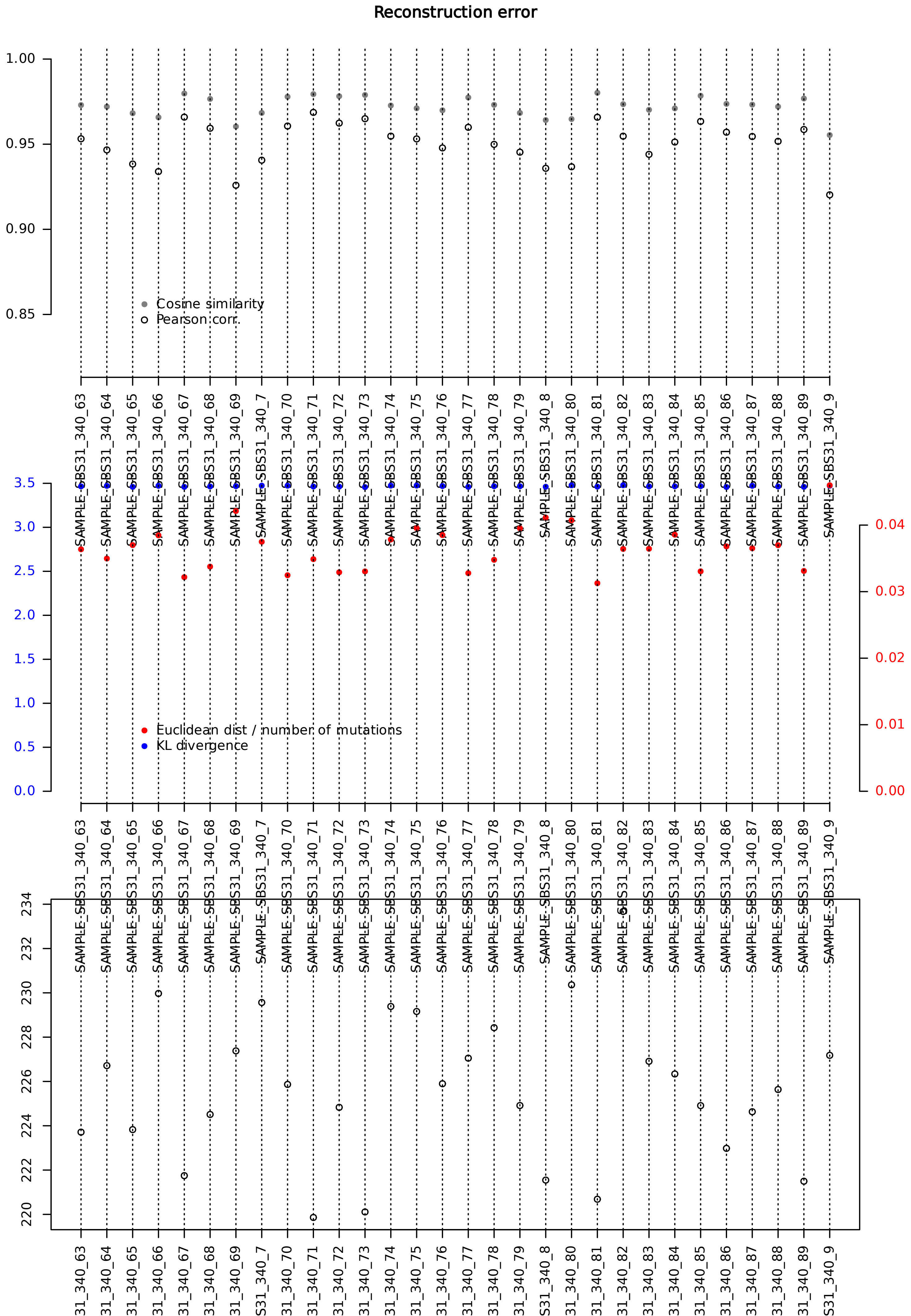
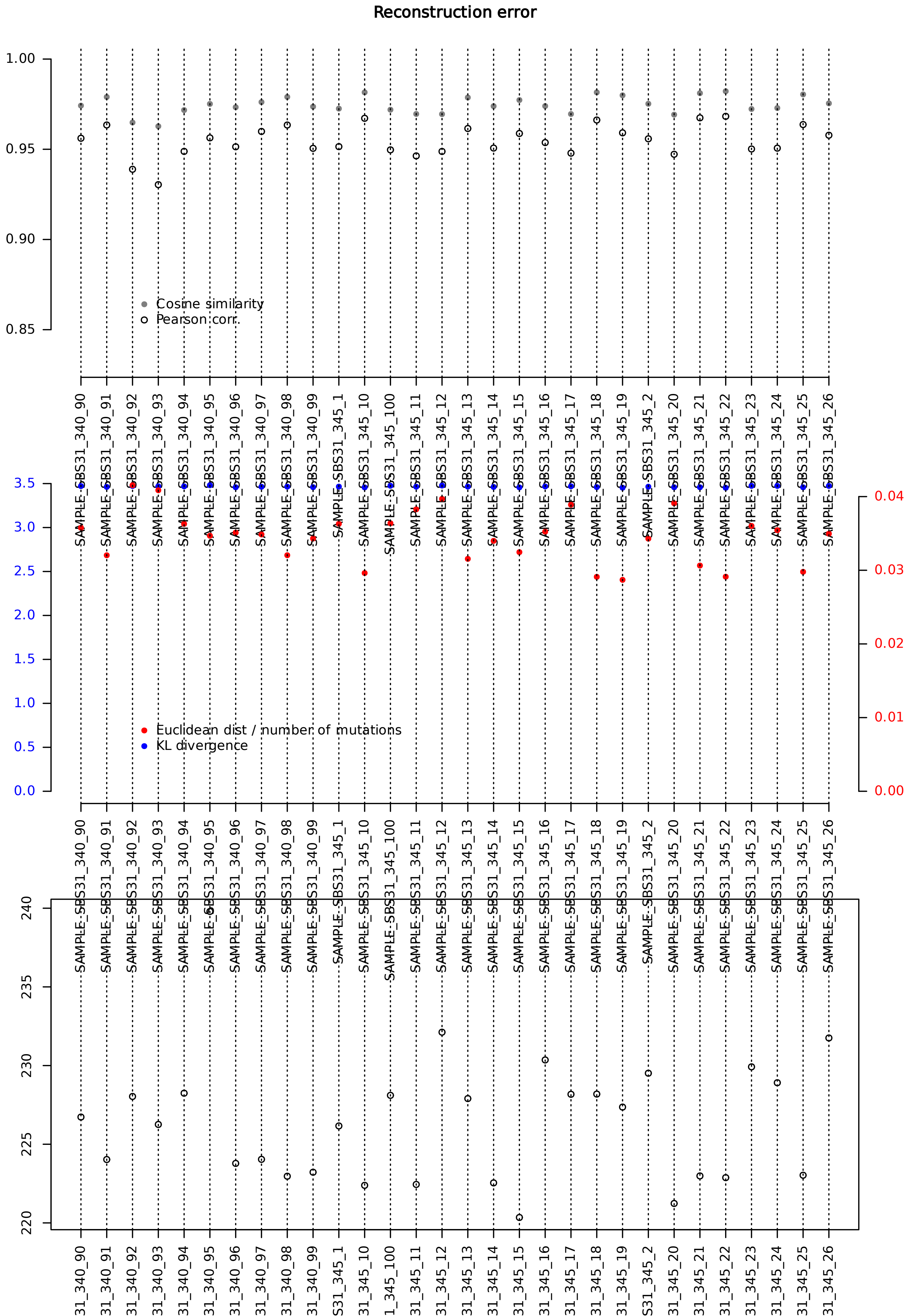
SAMPLE-SBS31_335_88
SAMPLE-SBS31_335_89
SAMPLE-SBS31_335_9
SAMPLE-SBS31_335_90
SAMPLE-SBS31_335_91
SAMPLE-SBS31_335_92
SAMPLE-SBS31_335_93
SAMPLE-SBS31_335_94
SAMPLE-SBS31_335_95
SAMPLE-SBS31_335_96
SAMPLE-SBS31_335_97
SAMPLE-SBS31_335_98
SAMPLE-SBS31_335_99
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
230
225
220


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
220
215
SAMPLE-SBS31_340_1
SAMPLE-SBS31_340_10
SAMPLE-SBS31_340_100
SAMPLE-SBS31_340_11
SAMPLE-SBS31_340_12
SAMPLE-SBS31_340_13
SAMPLE-SBS31_340_14
SAMPLE-SBS31_340_15
SAMPLE-SBS31_340_16
SAMPLE-SBS31_340_17
SAMPLE-SBS31_340_18
SAMPLE-SBS31_340_19
SAMPLE-SBS31_340_2
SAMPLE-SBS31_340_20
SAMPLE-SBS31_340_21
SAMPLE-SBS31_340_22
SAMPLE-SBS31_340_23
SAMPLE-SBS31_340_24
SAMPLE-SBS31_340_25
SAMPLE-SBS31_340_26
SAMPLE-SBS31_340_27
SAMPLE-SBS31_340_28
SAMPLE-SBS31_340_29
SAMPLE-SBS31_340_3
SAMPLE-SBS31_340_30
SAMPLE-SBS31_340_31
SAMPLE-SBS31_340_32
SAMPLE-SBS31_340_33
SAMPLE-SBS31_340_34
SAMPLE-SBS31_340_35


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
220
SAMPLE-SBS31_340_36
SAMPLE-SBS31_340_37
SAMPLE-SBS31_340_38
SAMPLE-SBS31_340_39
SAMPLE-SBS31_340_4
SAMPLE-SBS31_340_40
SAMPLE-SBS31_340_41
SAMPLE-SBS31_340_42
SAMPLE-SBS31_340_43
SAMPLE-SBS31_340_44
SAMPLE-SBS31_340_45
SAMPLE-SBS31_340_46
SAMPLE-SBS31_340_47
SAMPLE-SBS31_340_48
SAMPLE-SBS31_340_49
SAMPLE-SBS31_340_5
SAMPLE-SBS31_340_50
SAMPLE-SBS31_340_51
SAMPLE-SBS31_340_52
SAMPLE-SBS31_340_53
SAMPLE-SBS31_340_54
SAMPLE-SBS31_340_55
SAMPLE-SBS31_340_56
SAMPLE-SBS31_340_57
SAMPLE-SBS31_340_58
SAMPLE-SBS31_340_59
SAMPLE-SBS31_340_6
SAMPLE-SBS31_340_60
SAMPLE-SBS31_340_61
SAMPLE-SBS31_340_62


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
234
232
230
228
226
224
222
220
SAMPLE-SBS31_340_63
SAMPLE-SBS31_340_64
SAMPLE-SBS31_340_65
SAMPLE-SBS31_340_66
SAMPLE-SBS31_340_67
SAMPLE-SBS31_340_68
SAMPLE-SBS31_340_69
SAMPLE-SBS31_340_7
SAMPLE-SBS31_340_70
SAMPLE-SBS31_340_71
SAMPLE-SBS31_340_72
SAMPLE-SBS31_340_73
SAMPLE-SBS31_340_74
SAMPLE-SBS31_340_75
SAMPLE-SBS31_340_76
SAMPLE-SBS31_340_77
SAMPLE-SBS31_340_78
SAMPLE-SBS31_340_79
SAMPLE-SBS31_340_8
SAMPLE-SBS31_340_80
SAMPLE-SBS31_340_81
SAMPLE-SBS31_340_82
SAMPLE-SBS31_340_83
SAMPLE-SBS31_340_84
SAMPLE-SBS31_340_85
SAMPLE-SBS31_340_86
SAMPLE-SBS31_340_87
SAMPLE-SBS31_340_88
SAMPLE-SBS31_340_89
SAMPLE-SBS31_340_9


Reconstruction error
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0.95
0.90
0.85
Cosine similarity
Pearson corr.
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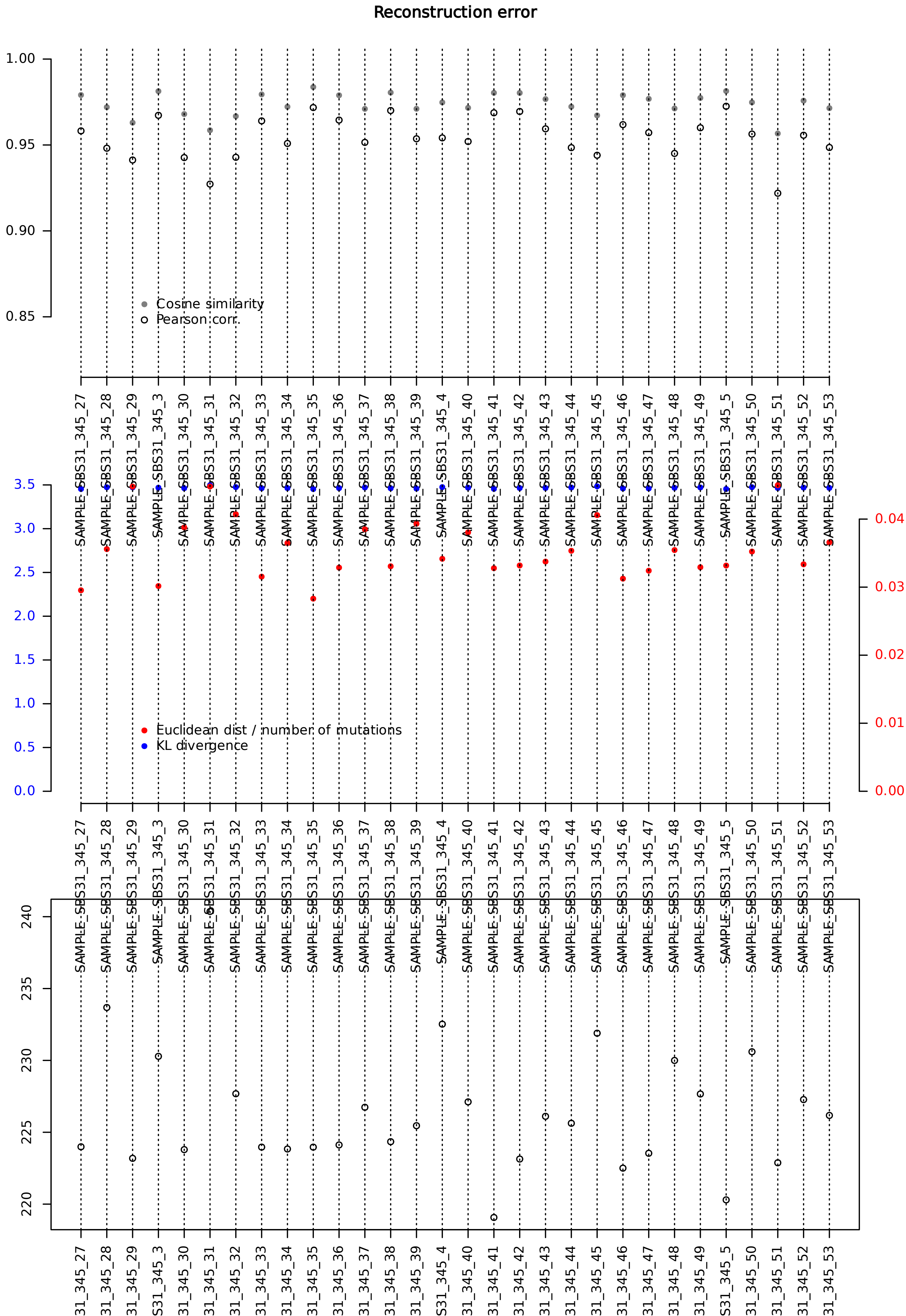
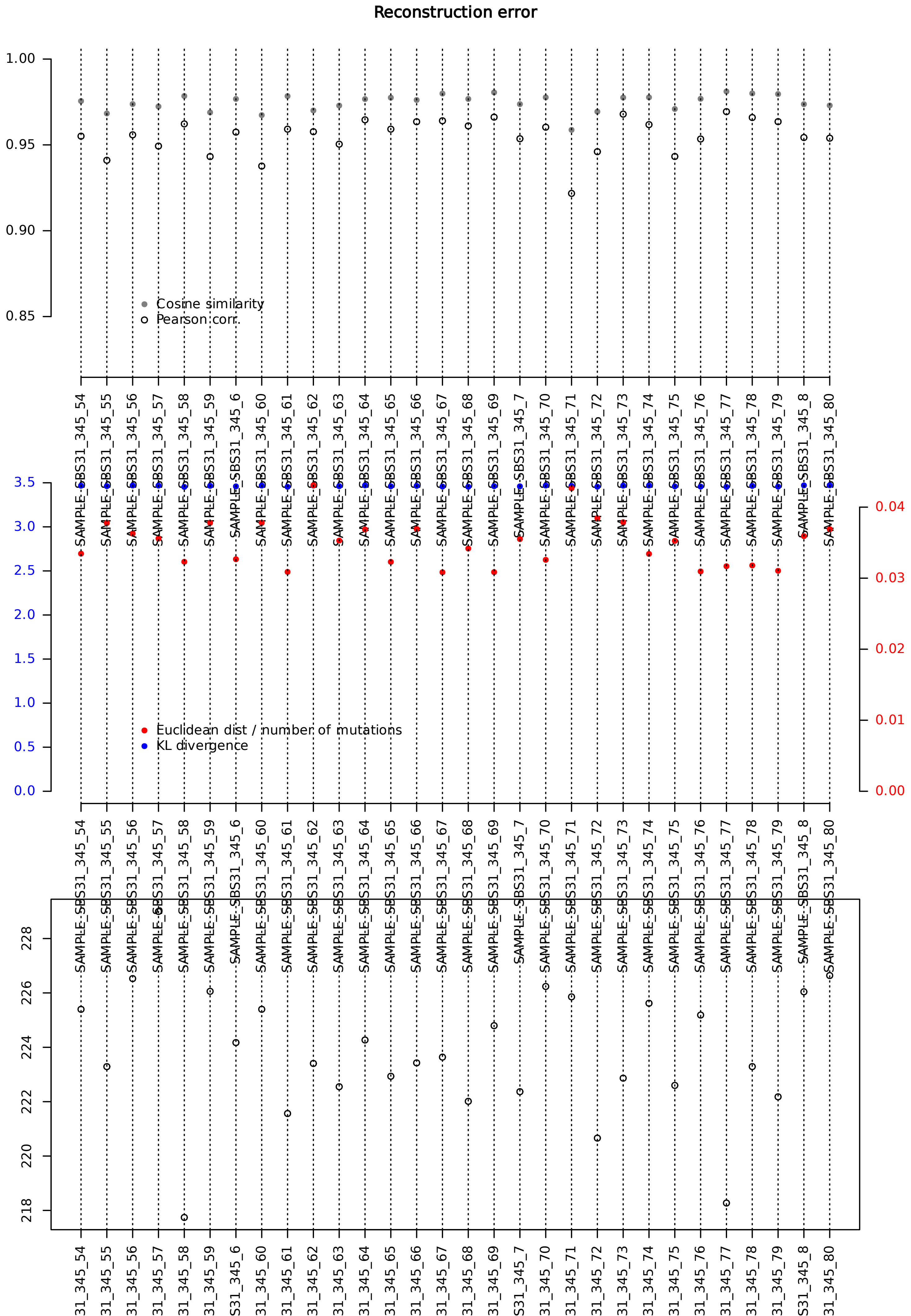
SAMPLE-SBS31_340_91
SAMPLE-SBS31_340_92
SAMPLE-SBS31_340_93
SAMPLE-SBS31_340_94
SAMPLE-SBS31_340_95
SAMPLE-SBS31_340_96
SAMPLE-SBS31_340_97
SAMPLE-SBS31_340_98
SAMPLE-SBS31_340_99
SAMPLE-SBS31_345_1
SAMPLE-SBS31_345_10
SAMPLE-SBS31_345_100
SAMPLE-SBS31_345_11
SAMPLE-SBS31_345_12
SAMPLE-SBS31_345_13
SAMPLE-SBS31_345_14
SAMPLE-SBS31_345_15
SAMPLE-SBS31_345_16
SAMPLE-SBS31_345_17
SAMPLE-SBS31_345_18
SAMPLE-SBS31_345_19
SAMPLE-SBS31_345_2
SAMPLE-SBS31_345_20
SAMPLE-SBS31_345_21
SAMPLE-SBS31_345_22
SAMPLE-SBS31_345_23
SAMPLE-SBS31_345_24
SAMPLE-SBS31_345_25
SAMPLE-SBS31_345_26
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
240
235
230
225
220


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
240
235
230
225
220
SAMPLE-SBS31_345_27
SAMPLE-SBS31_345_28
SAMPLE-SBS31_345_29
SAMPLE-SBS31_345_3
SAMPLE-SBS31_345_30
SAMPLE-SBS31_345_31
SAMPLE-SBS31_345_32
SAMPLE-SBS31_345_33
SAMPLE-SBS31_345_34
SAMPLE-SBS31_345_35
SAMPLE-SBS31_345_36
SAMPLE-SBS31_345_37
SAMPLE-SBS31_345_38
SAMPLE-SBS31_345_39
SAMPLE-SBS31_345_4
SAMPLE-SBS31_345_40
SAMPLE-SBS31_345_41
SAMPLE-SBS31_345_42
SAMPLE-SBS31_345_43
SAMPLE-SBS31_345_44
SAMPLE-SBS31_345_45
SAMPLE-SBS31_345_46
SAMPLE-SBS31_345_47
SAMPLE-SBS31_345_48
SAMPLE-SBS31_345_49
SAMPLE-SBS31_345_5
SAMPLE-SBS31_345_50
SAMPLE-SBS31_345_51
SAMPLE-SBS31_345_52
SAMPLE-SBS31_345_53


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
228
226
224
222
220
218
SAMPLE-SBS31_345_54
SAMPLE-SBS31_345_55
SAMPLE-SBS31_345_56
SAMPLE-SBS31_345_57
SAMPLE-SBS31_345_58
SAMPLE-SBS31_345_59
SAMPLE-SBS31_345_6
SAMPLE-SBS31_345_60
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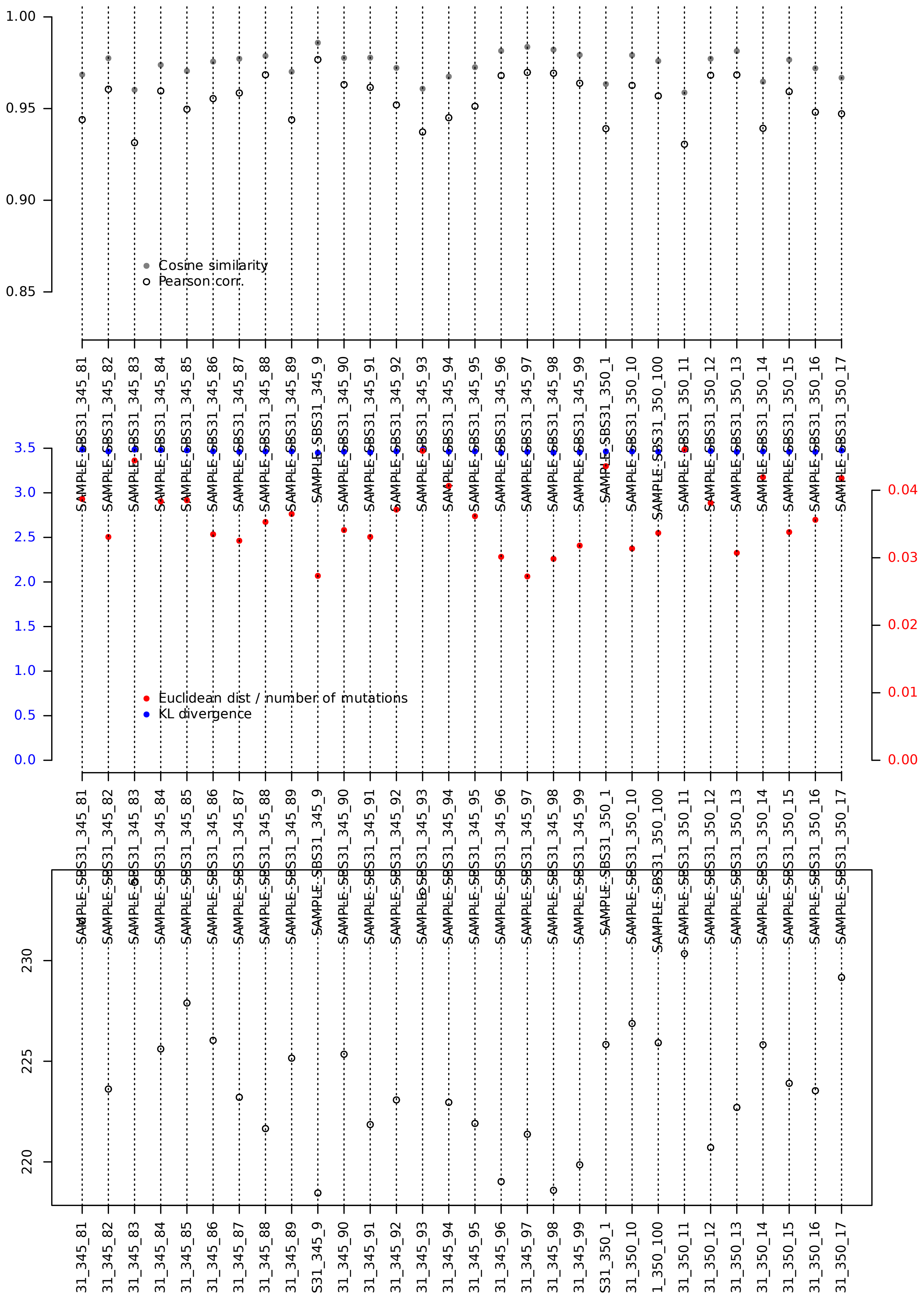
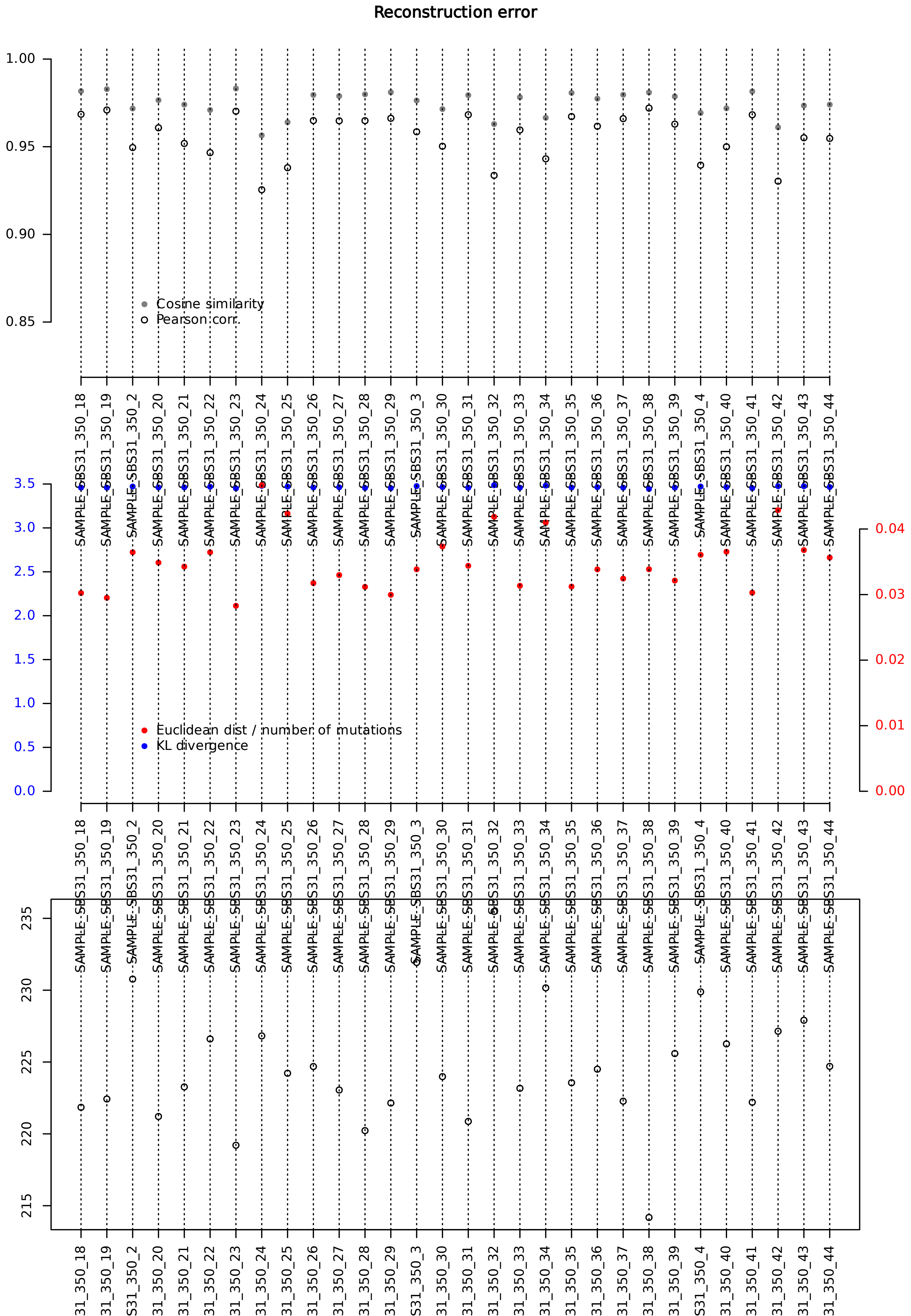
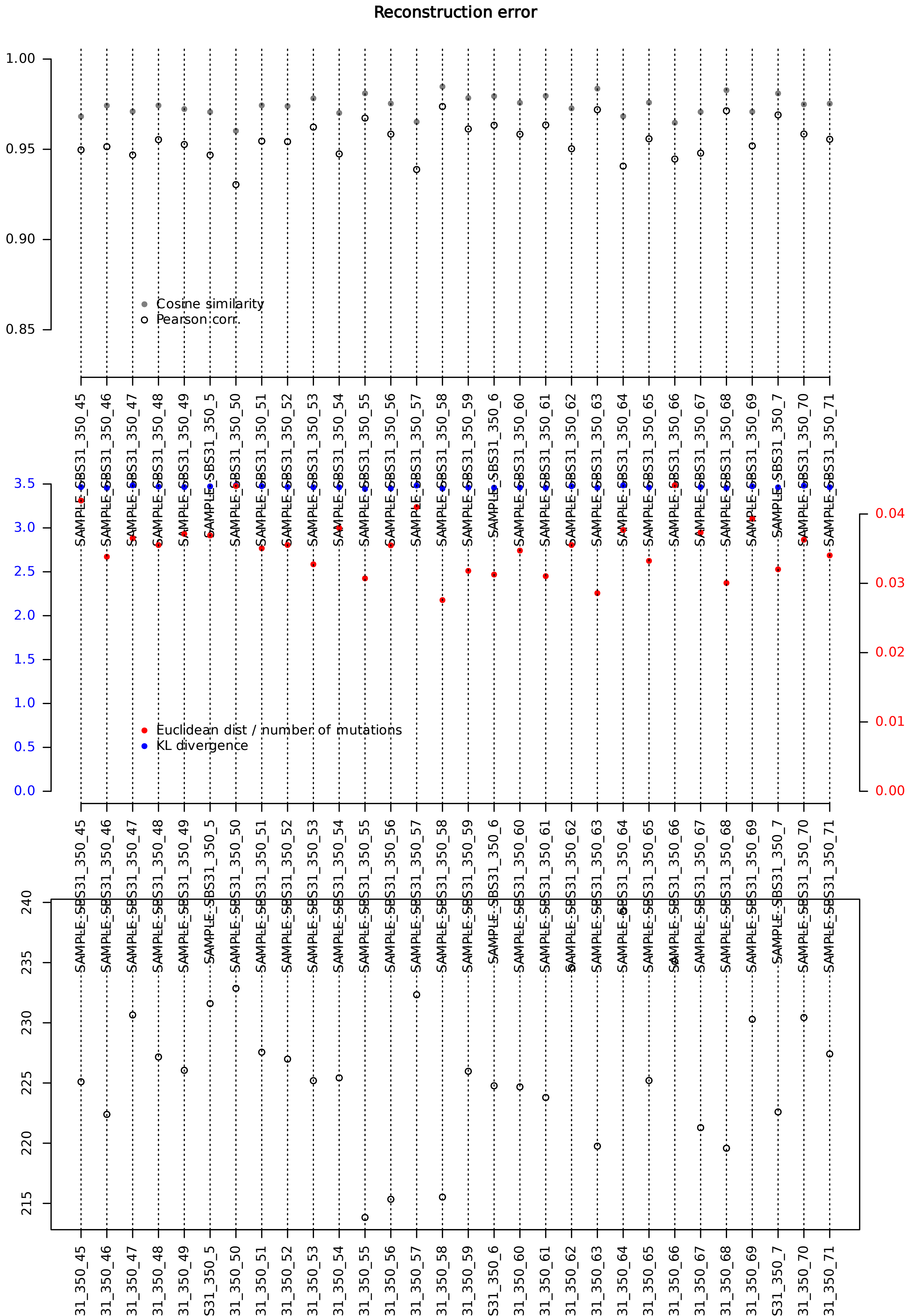
SAMPLE-SBS31_345_62
SAMPLE-SBS31_345_63
SAMPLE-SBS31_345_64
SAMPLE-SBS31_345_65
SAMPLE-SBS31_345_66
SAMPLE-SBS31_345_67
SAMPLE-SBS31_345_68
SAMPLE-SBS31_345_69
SAMPLE-SBS31_345_7
SAMPLE-SBS31_345_70
SAMPLE-SBS31_345_71
SAMPLE-SBS31_345_72
SAMPLE-SBS31_345_73
SAMPLE-SBS31_345_74
SAMPLE-SBS31_345_75
SAMPLE-SBS31_345_76
SAMPLE-SBS31_345_77
SAMPLE-SBS31_345_78
SAMPLE-SBS31_345_79
SAMPLE-SBS31_345_8
SAMPLE-SBS31_345_80

Reconstruction error




Reconstruction error


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
SAMPLE-SBS31_350_45
SAMPLE-SBS31_350_46
SAMPLE-SBS31_350_47
SAMPLE-SBS31_350_48
SAMPLE-SBS31_350_49
SAMPLE-SBS31_350_5
SAMPLE-SBS31_350_50
SAMPLE-SBS31_350_51
SAMPLE-SBS31_350_52
SAMPLE-SBS31_350_53
SAMPLE-SBS31_350_54
SAMPLE-SBS31_350_55
SAMPLE-SBS31_350_56
SAMPLE-SBS31_350_57
SAMPLE-SBS31_350_58
SAMPLE-SBS31_350_59
SAMPLE-SBS31_350_6
SAMPLE-SBS31_350_60
SAMPLE-SBS31_350_61
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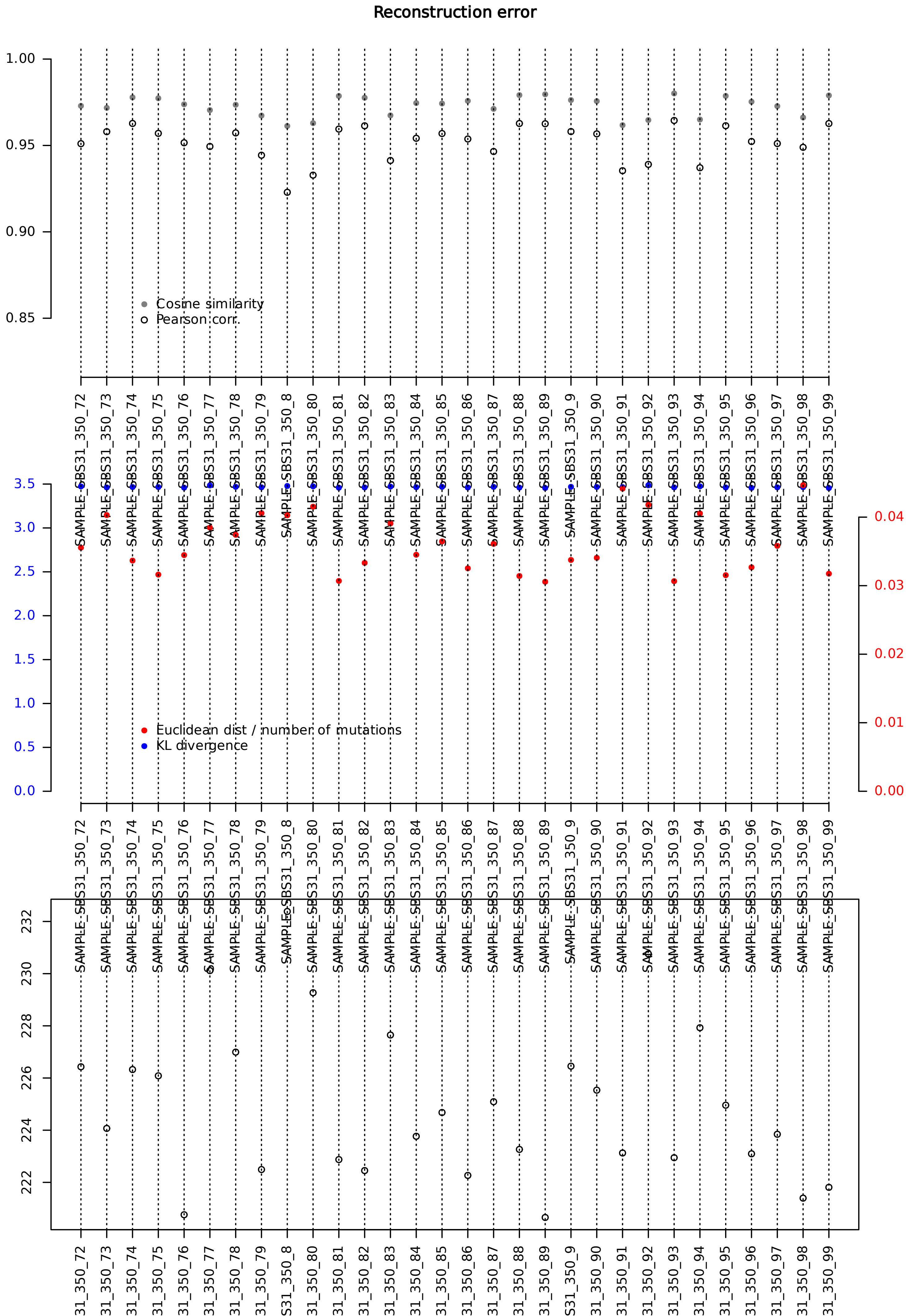
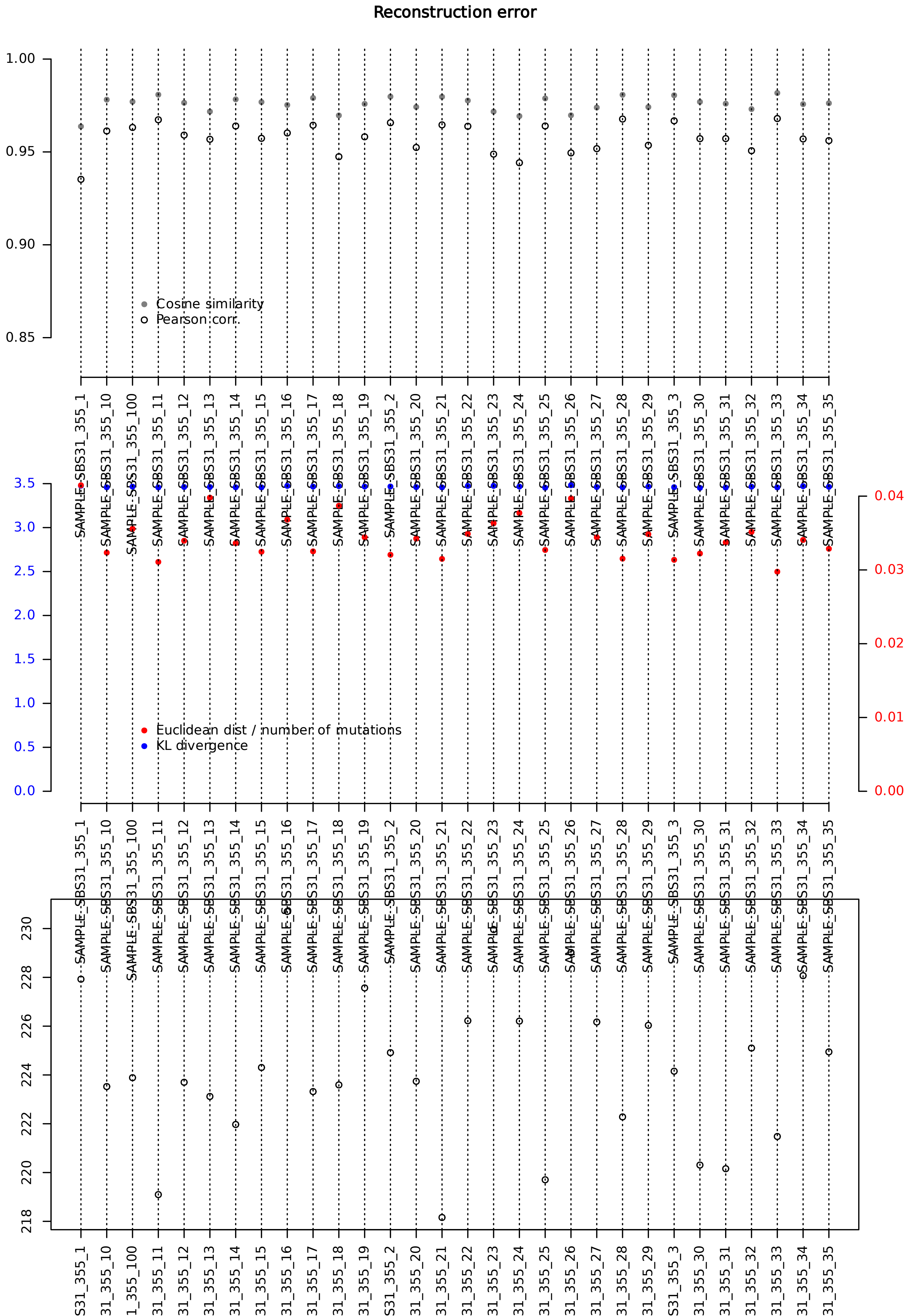
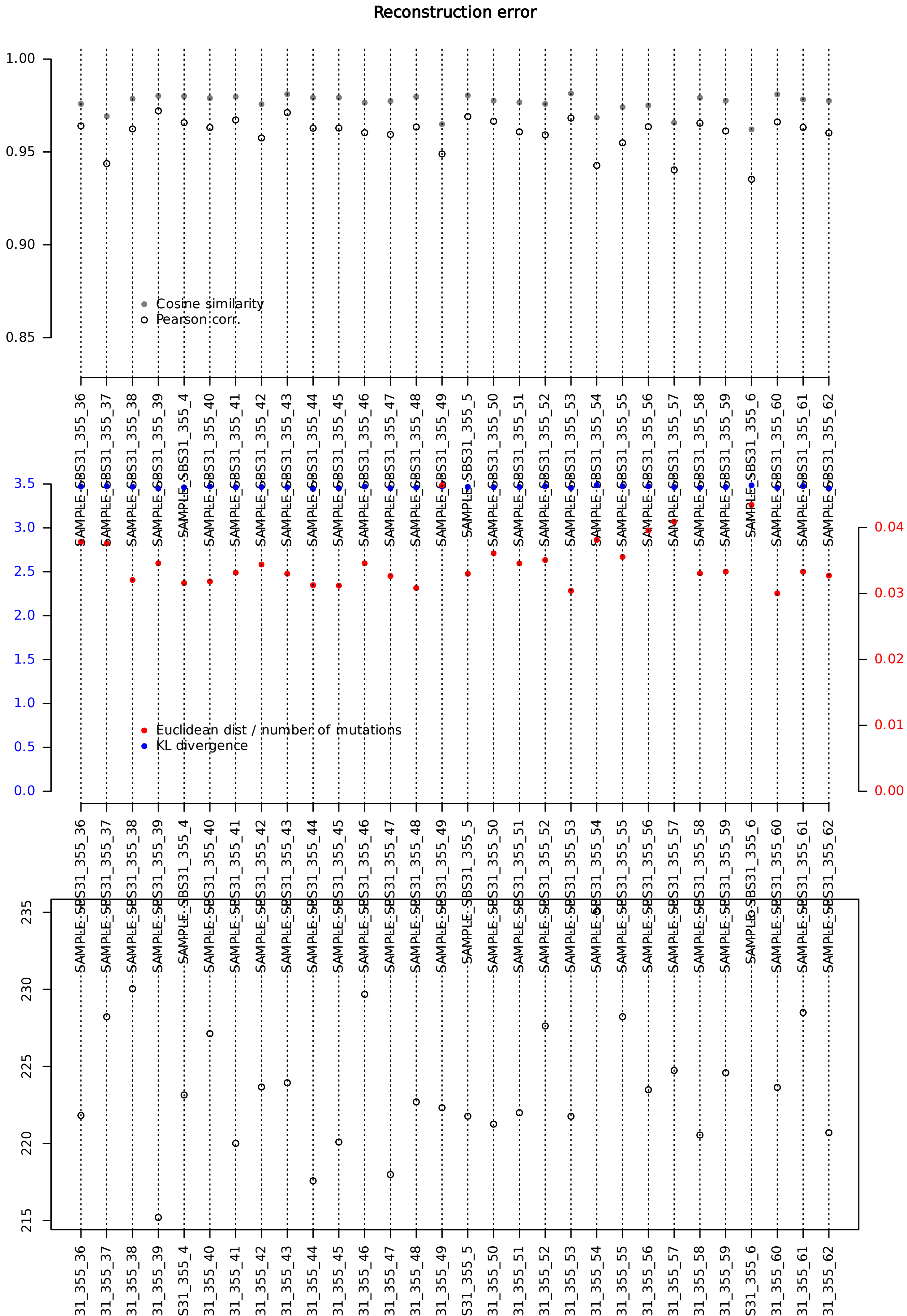
SAMPLE-SBS31_350_65
SAMPLE-SBS31_350_66
SAMPLE-SBS31_350_67
SAMPLE-SBS31_350_68
SAMPLE-SBS31_350_69
SAMPLE-SBS31_350_7
SAMPLE-SBS31_350_70
SAMPLE-SBS31_350_71
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
240
235
230
225
220
215


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
SAMPLE-SBS31_350_72
SAMPLE-SBS31_350_73
SAMPLE-SBS31_350_74
SAMPLE-SBS31_350_75
SAMPLE-SBS31_350_76
SAMPLE-SBS31_350_77
SAMPLE-SBS31_350_78
SAMPLE-SBS31_350_79
SAMPLE-SBS31_350_8
SAMPLE-SBS31_350_80
SAMPLE-SBS31_350_81
SAMPLE-SBS31_350_82
SAMPLE-SBS31_350_83
SAMPLE-SBS31_350_84
SAMPLE-SBS31_350_85
SAMPLE-SBS31_350_86
SAMPLE-SBS31_350_87
SAMPLE-SBS31_350_88
SAMPLE-SBS31_350_89
SAMPLE-SBS31_350_9
SAMPLE-SBS31_350_90
SAMPLE-SBS31_350_91
SAMPLE-SBS31_350_92
SAMPLE-SBS31_350_93
SAMPLE-SBS31_350_94
SAMPLE-SBS31_350_95
SAMPLE-SBS31_350_96
SAMPLE-SBS31_350_97
SAMPLE-SBS31_350_98
SAMPLE-SBS31_350_99
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
232
230
228
226
224
222


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
SAMPLE-SBS31_355_1
SAMPLE-SBS31_355_10
SAMPLE-SBS31_355_100
SAMPLE-SBS31_355_11
SAMPLE-SBS31_355_12
SAMPLE-SBS31_355_13
SAMPLE-SBS31_355_14
SAMPLE-SBS31_355_15
SAMPLE-SBS31_355_16
SAMPLE-SBS31_355_17
SAMPLE-SBS31_355_18
SAMPLE-SBS31_355_19
SAMPLE-SBS31_355_2
SAMPLE-SBS31_355_20
SAMPLE-SBS31_355_21
SAMPLE-SBS31_355_22
SAMPLE-SBS31_355_23
SAMPLE-SBS31_355_24
SAMPLE-SBS31_355_25
SAMPLE-SBS31_355_26
SAMPLE-SBS31_355_27
SAMPLE-SBS31_355_28
SAMPLE-SBS31_355_29
SAMPLE-SBS31_355_3
SAMPLE-SBS31_355_30
SAMPLE-SBS31_355_31
SAMPLE-SBS31_355_32
SAMPLE-SBS31_355_33
SAMPLE-SBS31_355_34
SAMPLE-SBS31_355_35
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
230
228
226
224
222
220
218


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
220
215
SAMPLE-SBS31_355_36
SAMPLE-SBS31_355_37
SAMPLE-SBS31_355_38
SAMPLE-SBS31_355_39
SAMPLE-SBS31_355_4
SAMPLE-SBS31_355_40
SAMPLE-SBS31_355_41
SAMPLE-SBS31_355_42
SAMPLE-SBS31_355_43
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SAMPLE-SBS31_355_57
SAMPLE-SBS31_355_58
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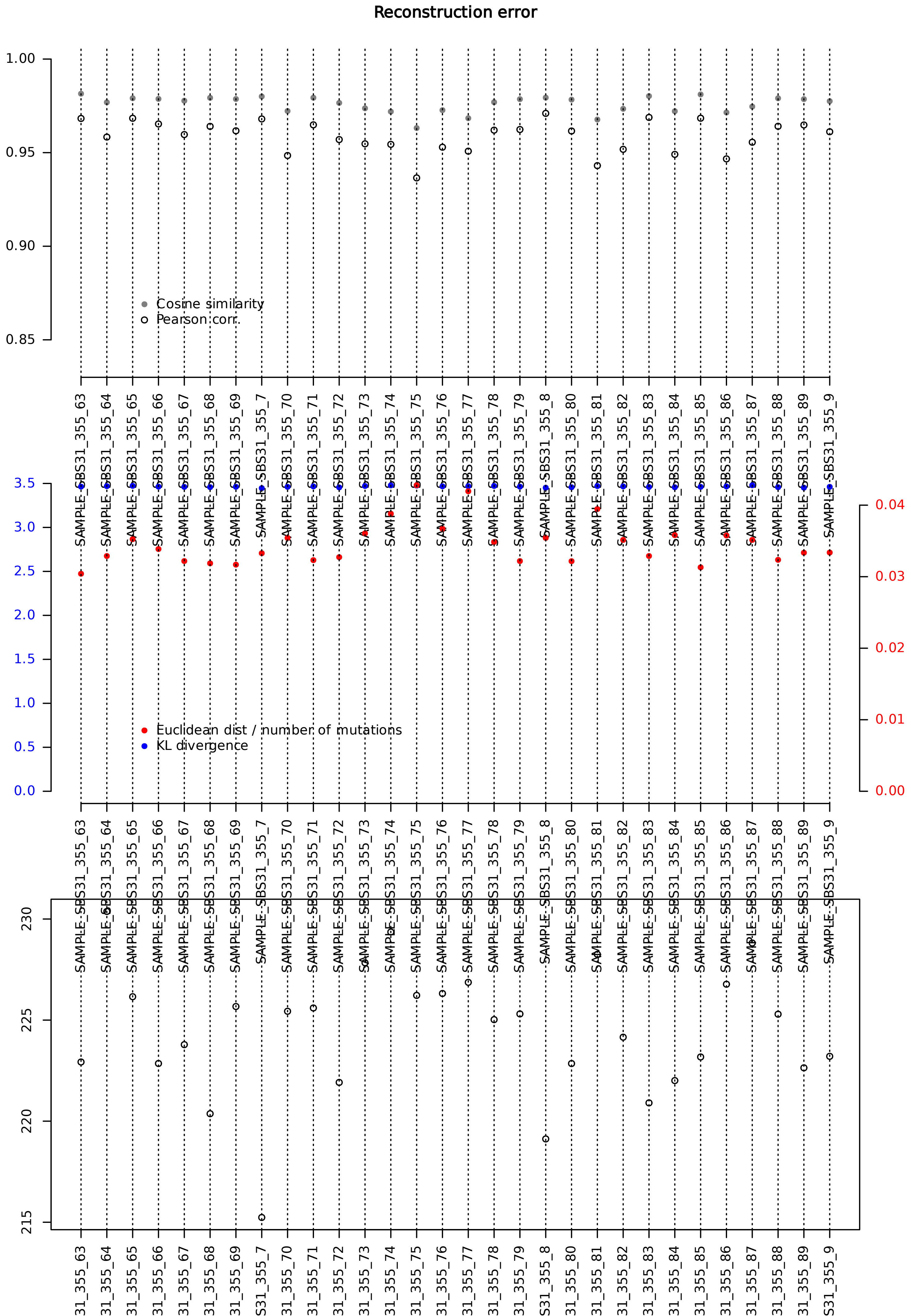
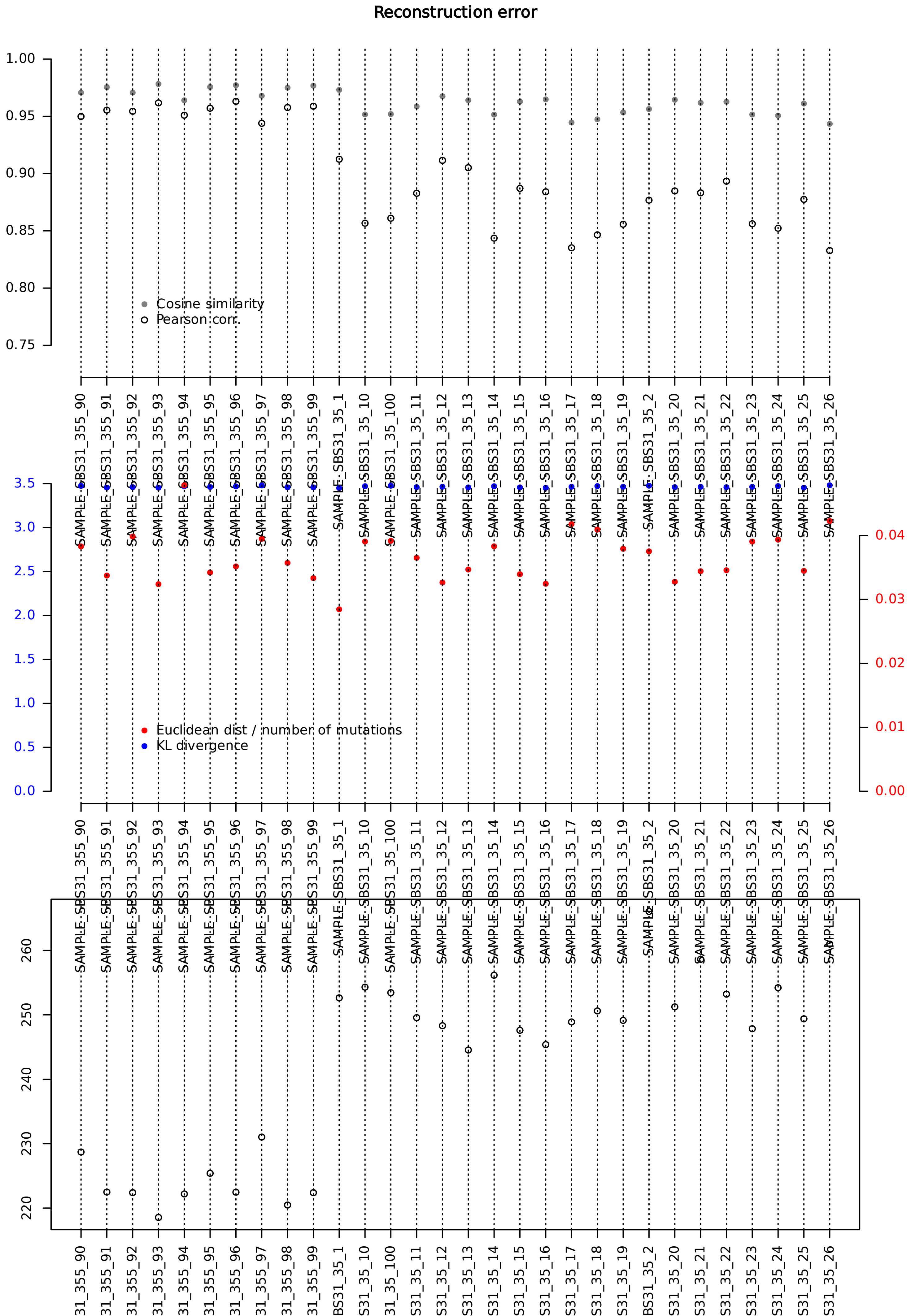
SAMPLE-SBS31_355_6
SAMPLE-SBS31_355_60
SAMPLE-SBS31_355_61
SAMPLE-SBS31_355_62


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
SAMPLE-SBS31_355_63
SAMPLE-SBS31_355_64
SAMPLE-SBS31_355_65
SAMPLE-SBS31_355_66
SAMPLE-SBS31_355_67
SAMPLE-SBS31_355_68
SAMPLE-SBS31_355_69
SAMPLE-SBS31_355_7
SAMPLE-SBS31_355_70
SAMPLE-SBS31_355_71
SAMPLE-SBS31_355_72
SAMPLE-SBS31_355_73
SAMPLE-SBS31_355_74
SAMPLE-SBS31_355_75
SAMPLE-SBS31_355_76
SAMPLE-SBS31_355_77
SAMPLE-SBS31_355_78
SAMPLE-SBS31_355_79
SAMPLE-SBS31_355_8
SAMPLE-SBS31_355_80
SAMPLE-SBS31_355_81
SAMPLE-SBS31_355_82
SAMPLE-SBS31_355_83
SAMPLE-SBS31_355_84
SAMPLE-SBS31_355_85
SAMPLE-SBS31_355_86
SAMPLE-SBS31_355_87
SAMPLE-SBS31_355_88
SAMPLE-SBS31_355_89
SAMPLE-SBS31_355_9
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
230
225
220
215


Reconstruction error
1.00
0.95
0.90
0.85
0.80
0.75
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
260
250
240
230
220
SAMPLE_SBS31_355_90
SAMPLE_SBS31_355_91
SAMPLE_SBS31_355_92
SAMPLE_SBS31_355_93
SAMPLE_SBS31_355_94
SAMPLE_SBS31_355_95
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SAMPLE_SBS31_35_1
SAMPLE_SBS31_35_10
SAMPLE_SBS31_35_100
SAMPLE_SBS31_35_11
SAMPLE_SBS31_35_12
SAMPLE_SBS31_35_13
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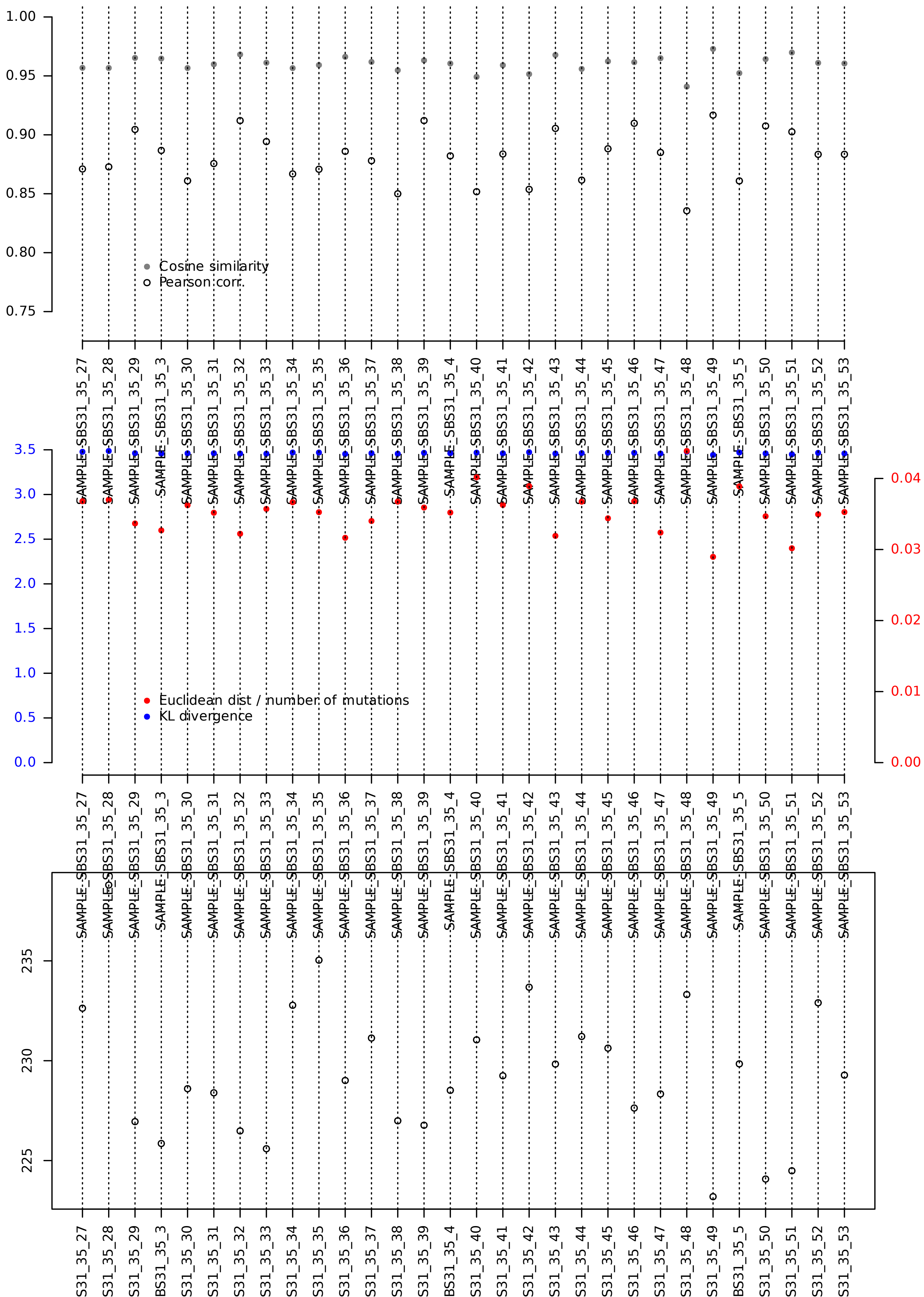
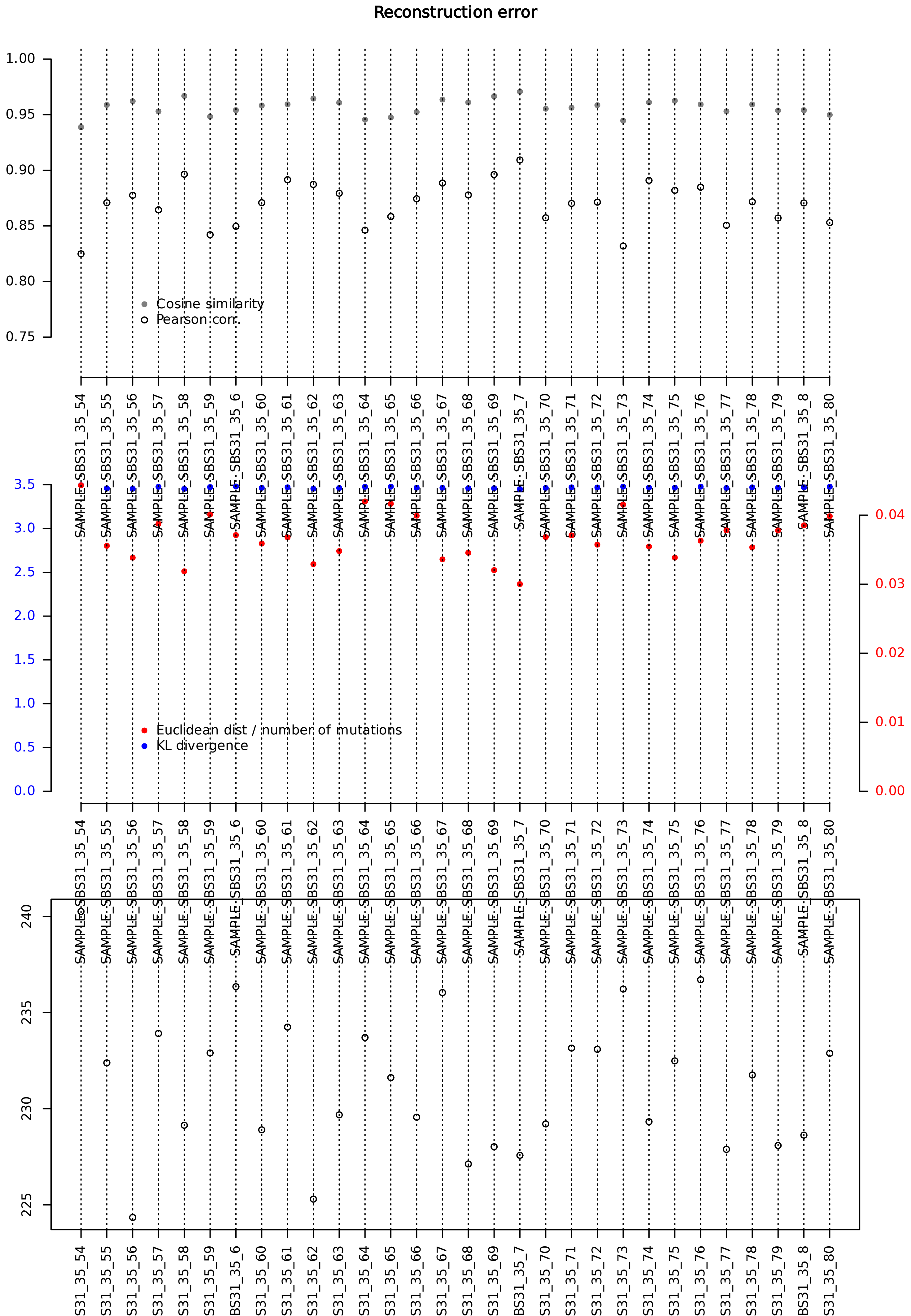
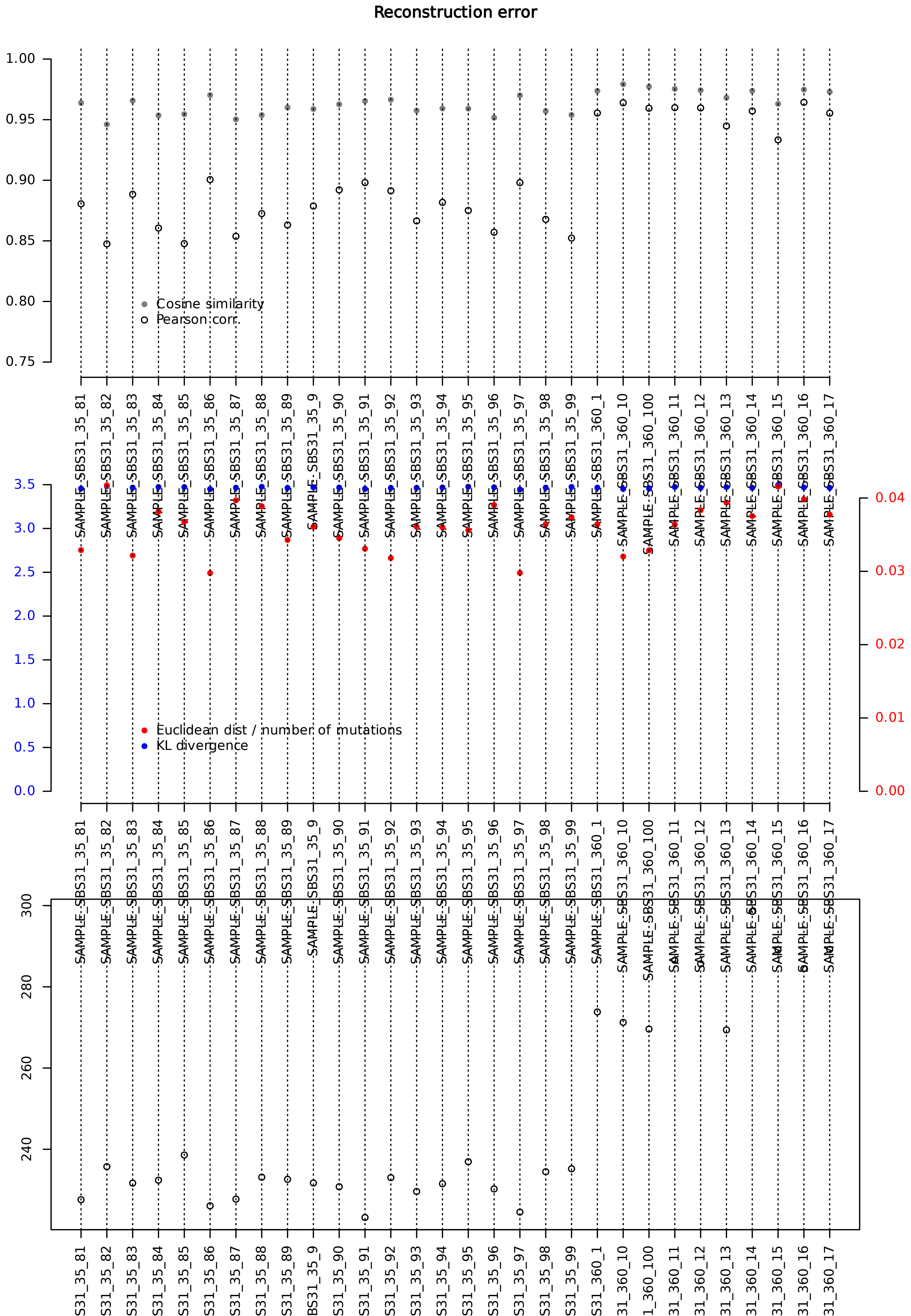
SAMPLE_SBS31_35_15
SAMPLE_SBS31_35_16
SAMPLE_SBS31_35_17
SAMPLE_SBS31_35_18
SAMPLE_SBS31_35_19
SAMPLE_SBS31_35_2
SAMPLE_SBS31_35_20
SAMPLE_SBS31_35_21
SAMPLE_SBS31_35_22
SAMPLE_SBS31_35_23
SAMPLE_SBS31_35_24
SAMPLE_SBS31_35_25
SAMPLE_SBS31_35_26

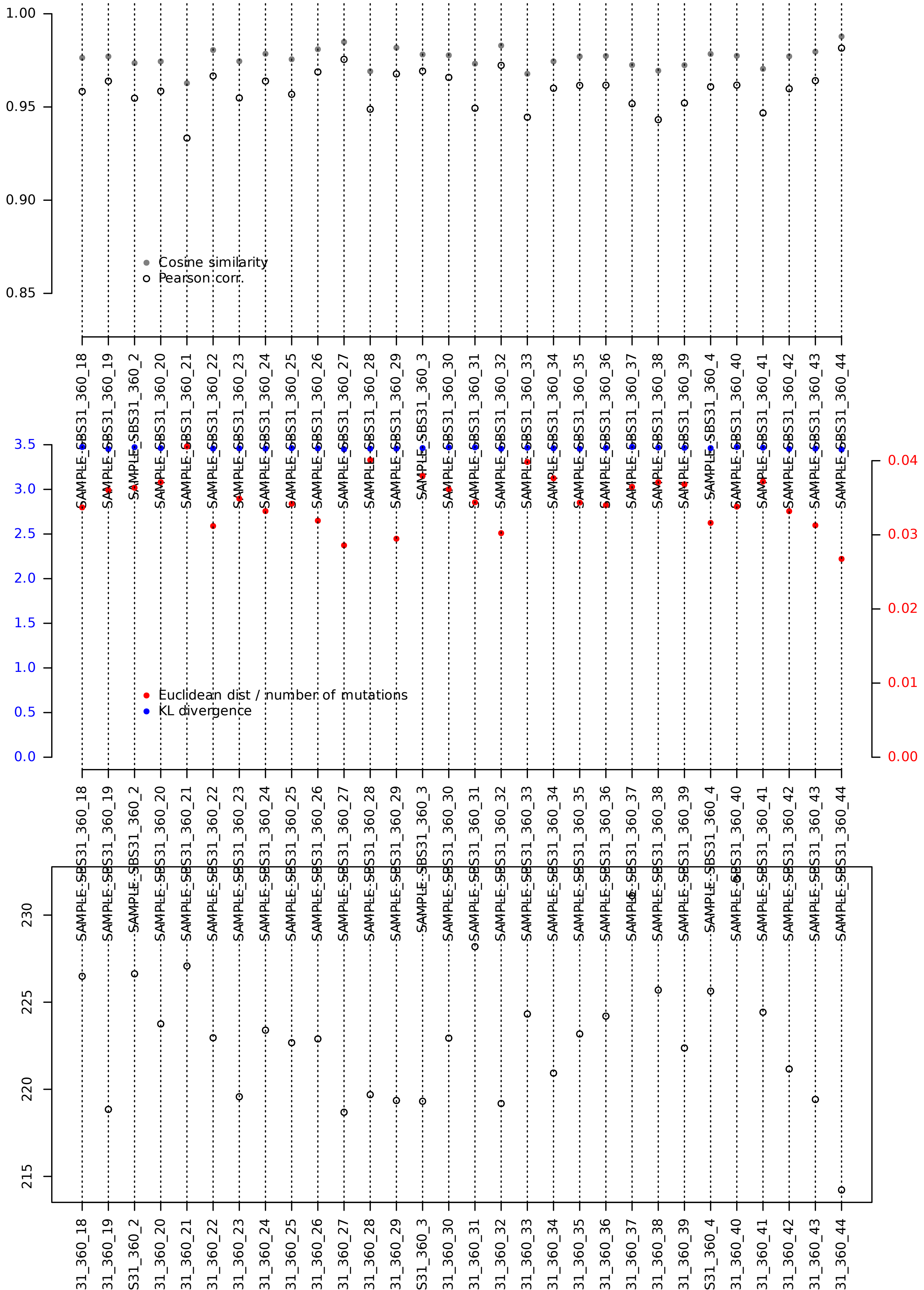
Reconstruction error

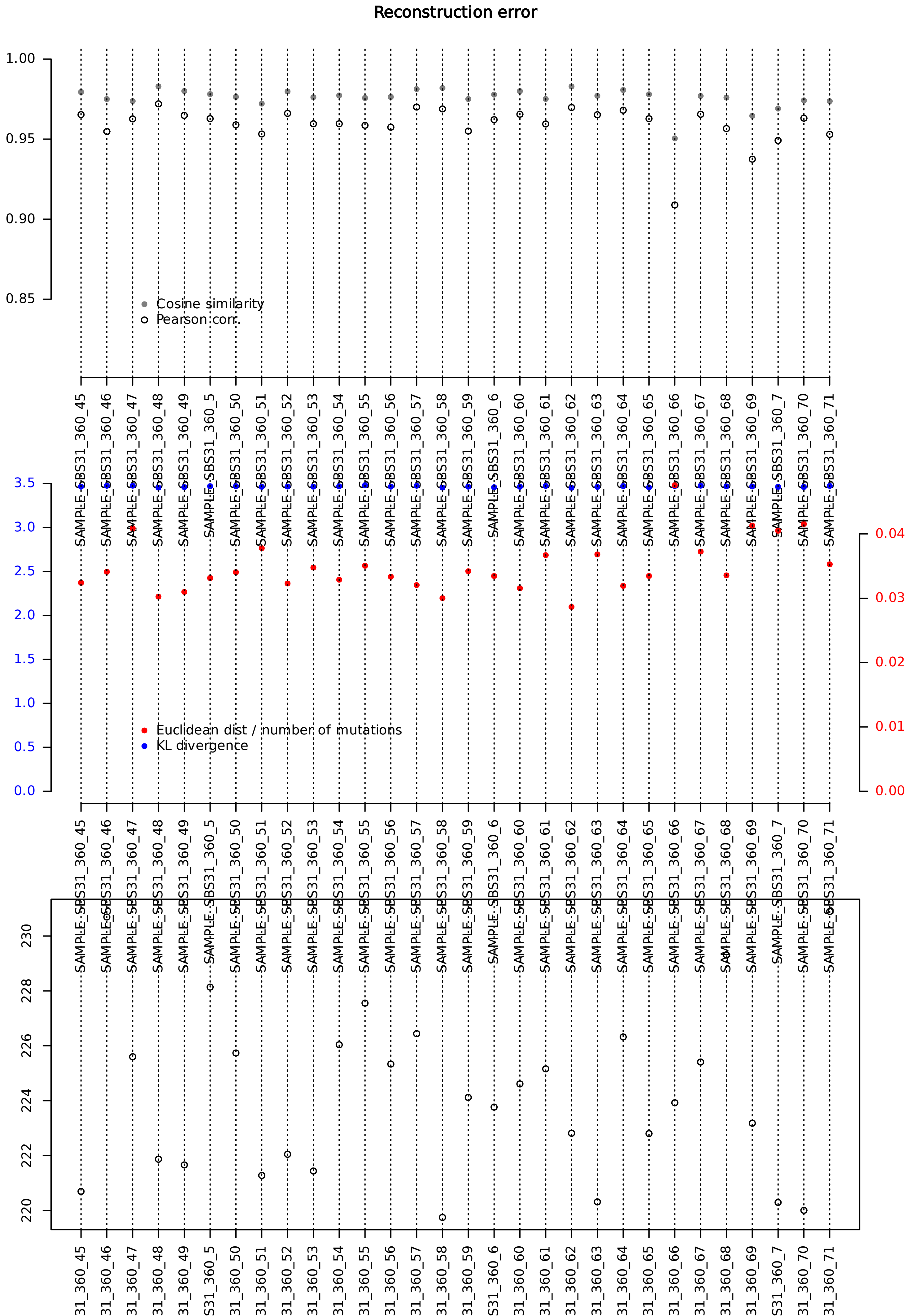


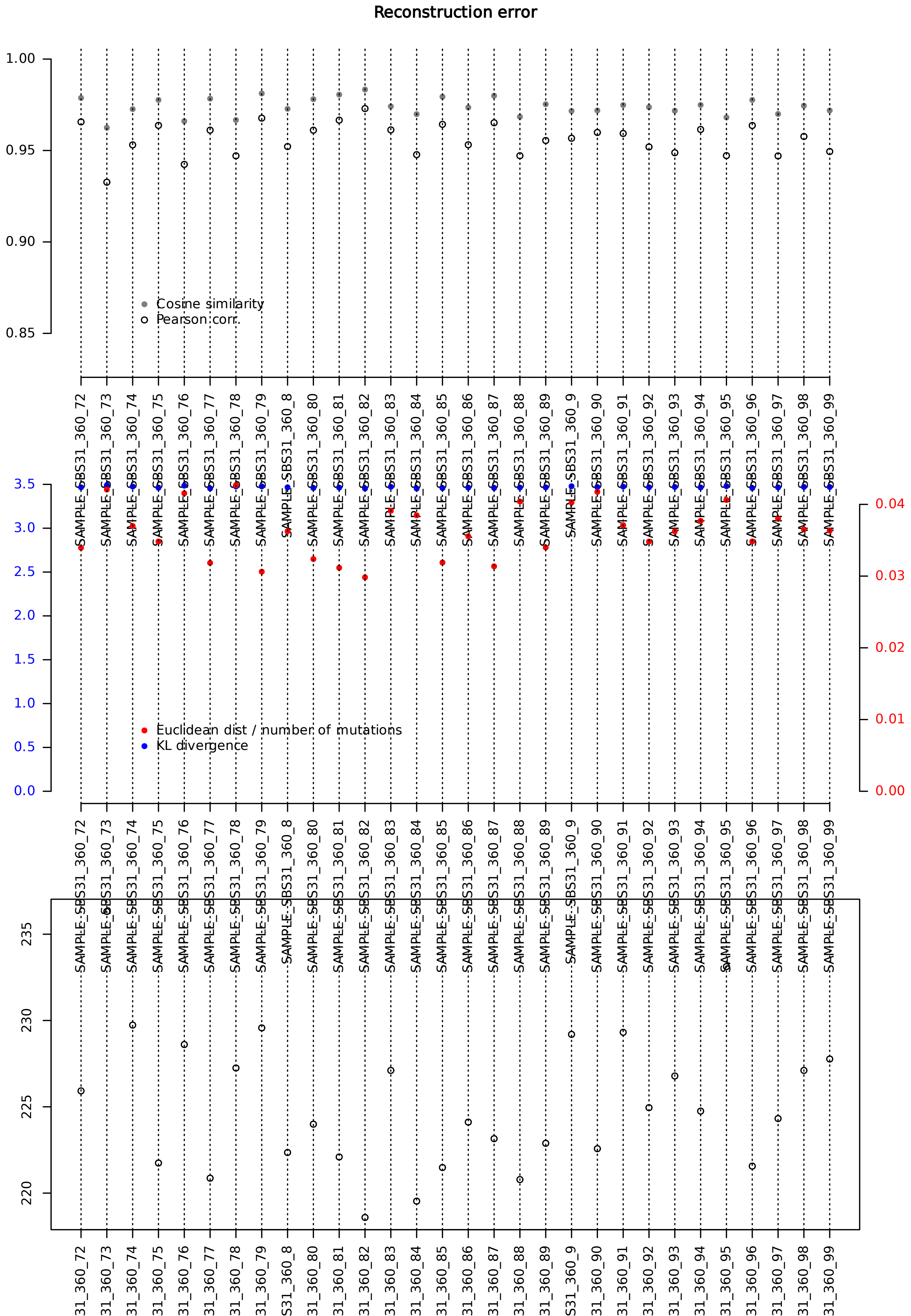

Reconstruction error
1.00
0.95
0.90
0.85
0.80
0.75
Cosine similarity
Pearson corr.
SAMPLE-SBS31_35_54
SAMPLE-SBS31_35_55
SAMPLE-SBS31_35_56
SAMPLE-SBS31_35_57
SAMPLE-SBS31_35_58
SAMPLE-SBS31_35_59
SAMPLE-SBS31_35_6
SAMPLE-SBS31_35_60
SAMPLE-SBS31_35_61
SAMPLE-SBS31_35_62
SAMPLE-SBS31_35_63
SAMPLE-SBS31_35_64
SAMPLE-SBS31_35_65
SAMPLE-SBS31_35_66
SAMPLE-SBS31_35_67
SAMPLE-SBS31_35_68
SAMPLE-SBS31_35_69
SAMPLE-SBS31_35_7
SAMPLE-SBS31_35_70
SAMPLE-SBS31_35_71
SAMPLE-SBS31_35_72
SAMPLE-SBS31_35_73
SAMPLE-SBS31_35_74
SAMPLE-SBS31_35_75
SAMPLE-SBS31_35_76
SAMPLE-SBS31_35_77
SAMPLE-SBS31_35_78
SAMPLE-SBS31_35_79
SAMPLE-SBS31_35_8
SAMPLE-SBS31_35_80
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
240
235
230
225


Reconstruction error
1.00
0.95
0.90
0.85
0.80
0.75
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
300
280
260
240
SAMPLE-SBS31_35_81
SAMPLE-SBS31_35_82
SAMPLE-SBS31_35_83
SAMPLE-SBS31_35_84
SAMPLE-SBS31_35_85
SAMPLE-SBS31_35_86
SAMPLE-SBS31_35_87
SAMPLE-SBS31_35_88
SAMPLE-SBS31_35_89
SAMPLE-SBS31_35_9
SAMPLE-SBS31_35_90
SAMPLE-SBS31_35_91
SAMPLE-SBS31_35_92
SAMPLE-SBS31_35_93
SAMPLE-SBS31_35_94
SAMPLE-SBS31_35_95
SAMPLE-SBS31_35_96
SAMPLE-SBS31_35_97
SAMPLE-SBS31_35_98
SAMPLE-SBS31_35_99
SAMPLE-SBS31_360_1
SAMPLE-SBS31_360_10
SAMPLE-SBS31_360_100
SAMPLE-SBS31_360_11
SAMPLE-SBS31_360_12
SAMPLE-SBS31_360_13
SAMPLE-SBS31_360_14
SAMPLE-SBS31_360_15
SAMPLE-SBS31_360_16
SAMPLE-SBS31_360_17

Reconstruction error




Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
SAMPLE-SBS31_360_45
SAMPLE-SBS31_360_46
SAMPLE-SBS31_360_47
SAMPLE-SBS31_360_48
SAMPLE-SBS31_360_49
SAMPLE-SBS31_360_5
SAMPLE-SBS31_360_50
SAMPLE-SBS31_360_51
SAMPLE-SBS31_360_52
SAMPLE-SBS31_360_53
SAMPLE-SBS31_360_54
SAMPLE-SBS31_360_55
SAMPLE-SBS31_360_56
SAMPLE-SBS31_360_57
SAMPLE-SBS31_360_58
SAMPLE-SBS31_360_59
SAMPLE-SBS31_360_6
SAMPLE-SBS31_360_60
SAMPLE-SBS31_360_61
SAMPLE-SBS31_360_62
SAMPLE-SBS31_360_63
SAMPLE-SBS31_360_64
SAMPLE-SBS31_360_65
SAMPLE-SBS31_360_66
SAMPLE-SBS31_360_67
SAMPLE-SBS31_360_68
SAMPLE-SBS31_360_69
SAMPLE-SBS31_360_7
SAMPLE-SBS31_360_70
SAMPLE-SBS31_360_71
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
230
228
226
224
222
220


Reconstruction error
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0.95
0.90
0.85
Cosine similarity
Pearson corr.
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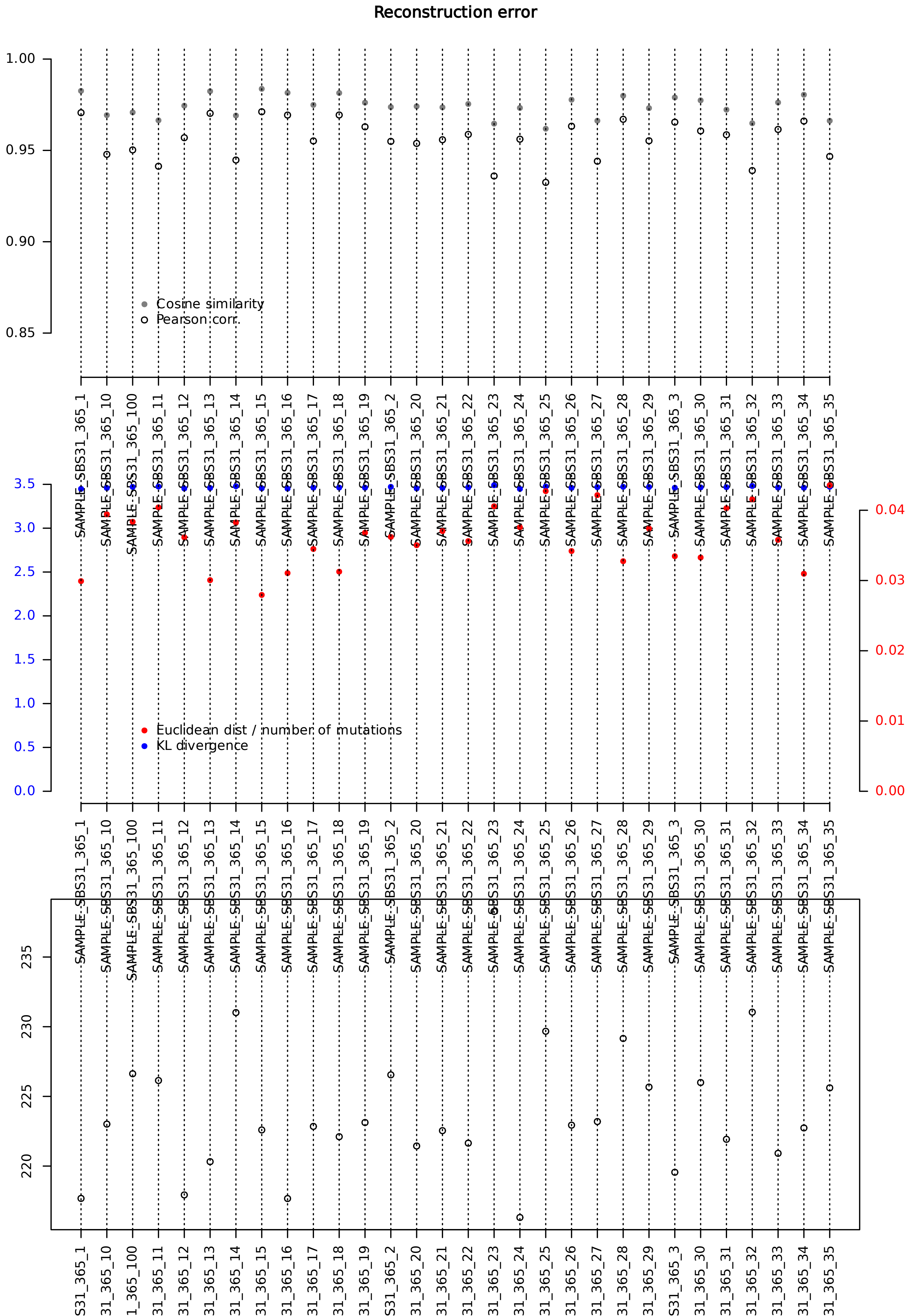
SAMPLE-SBS31_360_73
SAMPLE-SBS31_360_74
SAMPLE-SBS31_360_75
SAMPLE-SBS31_360_76
SAMPLE-SBS31_360_77
SAMPLE-SBS31_360_78
SAMPLE-SBS31_360_79
SAMPLE-SBS31_360_8
SAMPLE-SBS31_360_80
SAMPLE-SBS31_360_81
SAMPLE-SBS31_360_82
SAMPLE-SBS31_360_83
SAMPLE-SBS31_360_84
SAMPLE-SBS31_360_85
SAMPLE-SBS31_360_86
SAMPLE-SBS31_360_87
SAMPLE-SBS31_360_88
SAMPLE-SBS31_360_89
SAMPLE-SBS31_360_9
SAMPLE-SBS31_360_90
SAMPLE-SBS31_360_91
SAMPLE-SBS31_360_92
SAMPLE-SBS31_360_93
SAMPLE-SBS31_360_94
SAMPLE-SBS31_360_95
SAMPLE-SBS31_360_96
SAMPLE-SBS31_360_97
SAMPLE-SBS31_360_98
SAMPLE-SBS31_360_99
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
220


Reconstruction error
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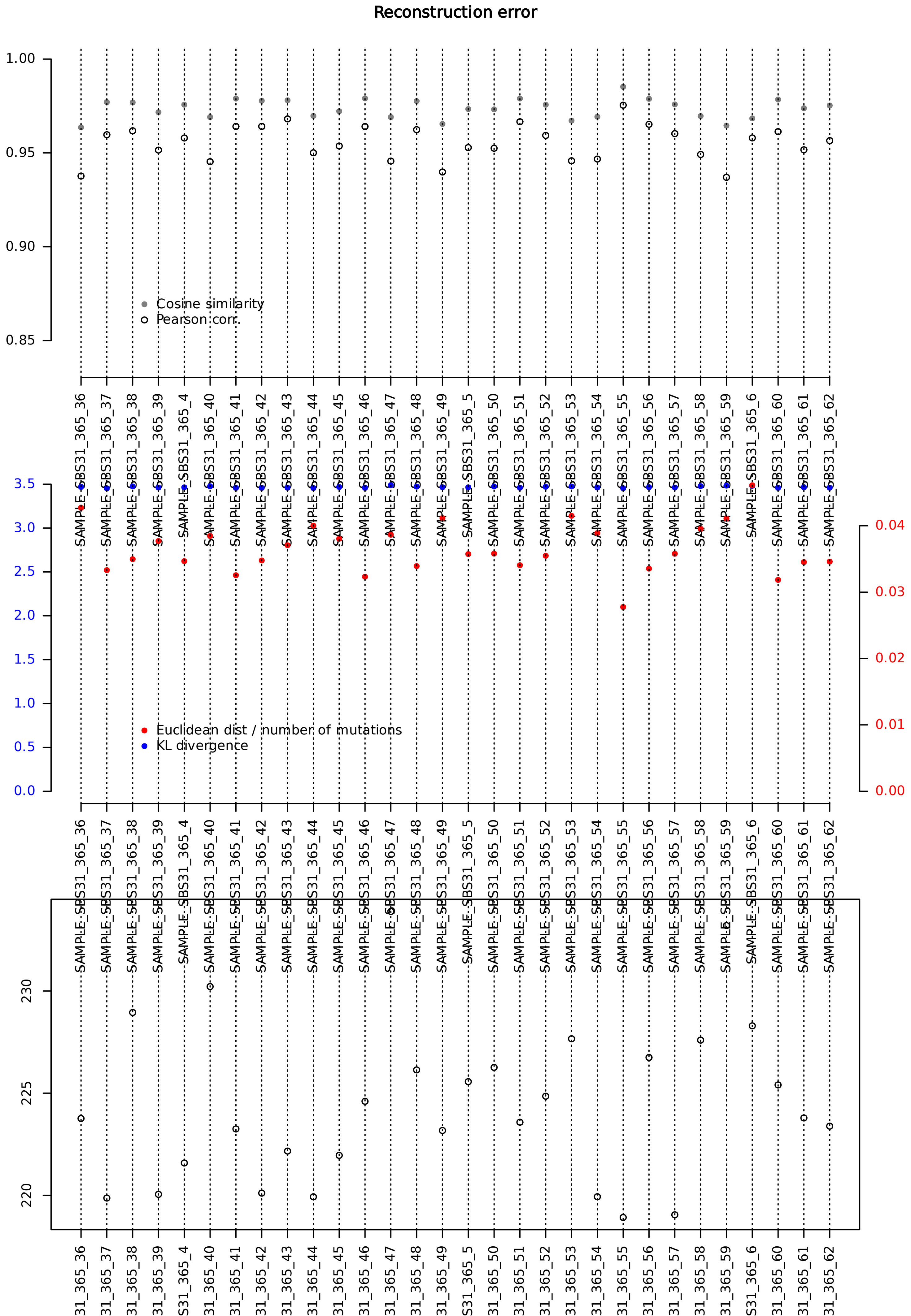
0.95
0.90
0.85
Cosine similarity
Pearson corr.
SAMPLE-SBS31_365_1
SAMPLE-SBS31_365_10
SAMPLE-SBS31_365_100
SAMPLE-SBS31_365_11
SAMPLE-SBS31_365_12
SAMPLE-SBS31_365_13
SAMPLE-SBS31_365_14
SAMPLE-SBS31_365_15
SAMPLE-SBS31_365_16
SAMPLE-SBS31_365_17
SAMPLE-SBS31_365_18
SAMPLE-SBS31_365_19
SAMPLE-SBS31_365_2
SAMPLE-SBS31_365_20
SAMPLE-SBS31_365_21
SAMPLE-SBS31_365_22
SAMPLE-SBS31_365_23
SAMPLE-SBS31_365_24
SAMPLE-SBS31_365_25
SAMPLE-SBS31_365_26
SAMPLE-SBS31_365_27
SAMPLE-SBS31_365_28
SAMPLE-SBS31_365_29
SAMPLE-SBS31_365_3
SAMPLE-SBS31_365_30
SAMPLE-SBS31_365_31
SAMPLE-SBS31_365_32
SAMPLE-SBS31_365_33
SAMPLE-SBS31_365_34
SAMPLE-SBS31_365_35
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
220


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
230
225
220
SAMPLE-SBS31_365_36
SAMPLE-SBS31_365_37
SAMPLE-SBS31_365_38
SAMPLE-SBS31_365_39
SAMPLE-SBS31_365_4
SAMPLE-SBS31_365_40
SAMPLE-SBS31_365_41
SAMPLE-SBS31_365_42
SAMPLE-SBS31_365_43
SAMPLE-SBS31_365_44
SAMPLE-SBS31_365_45
SAMPLE-SBS31_365_46
SAMPLE-SBS31_365_47
SAMPLE-SBS31_365_48
SAMPLE-SBS31_365_49
SAMPLE-SBS31_365_5
SAMPLE-SBS31_365_50
SAMPLE-SBS31_365_51
SAMPLE-SBS31_365_52
SAMPLE-SBS31_365_53
SAMPLE-SBS31_365_54
SAMPLE-SBS31_365_55
SAMPLE-SBS31_365_56
SAMPLE-SBS31_365_57
SAMPLE-SBS31_365_58
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SAMPLE-SBS31_365_6
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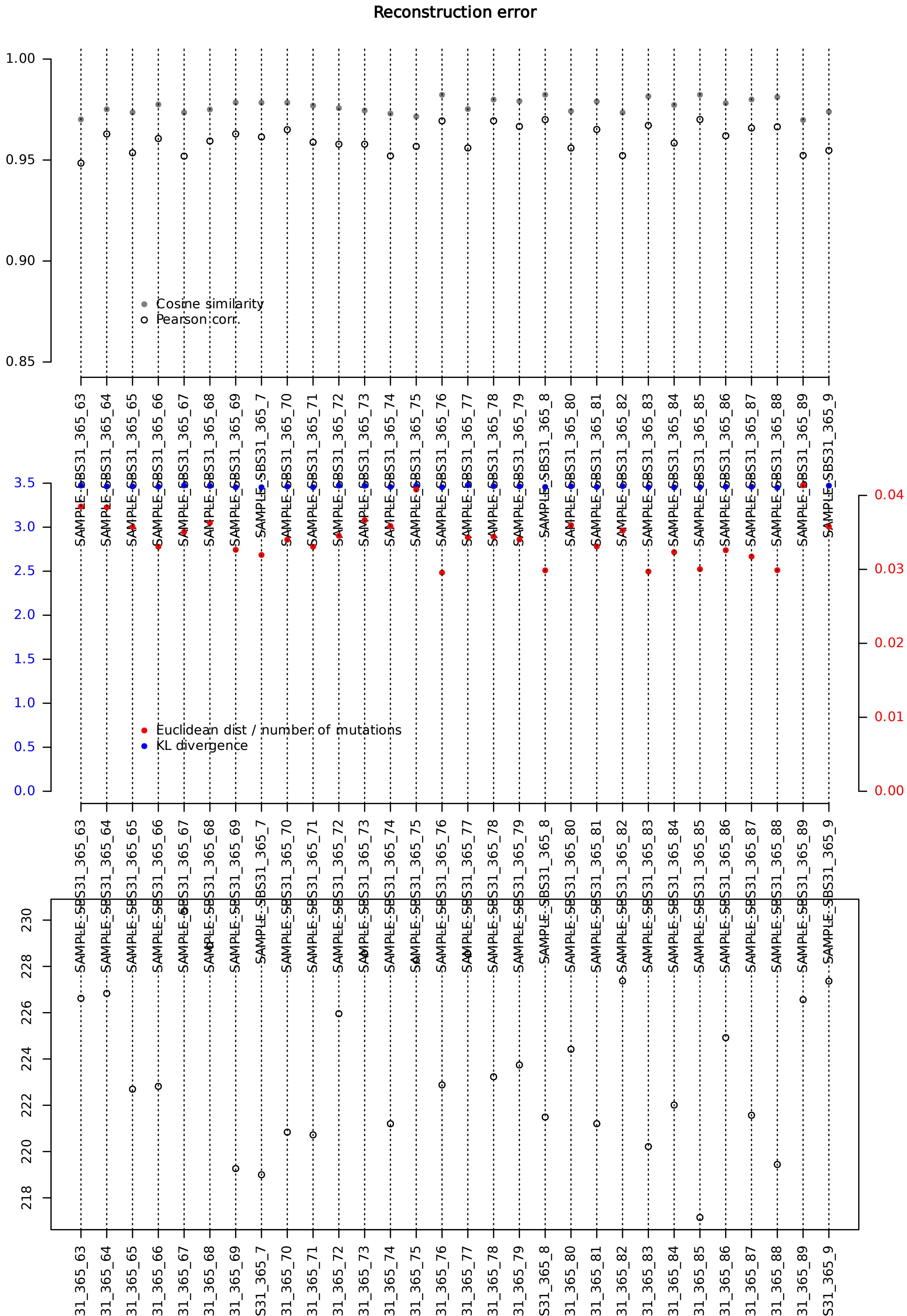
SAMPLE-SBS31_365_61
SAMPLE-SBS31_365_62


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
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3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
230
228
226
224
222
220
218
SAMPLE-SBS31_365_63
SAMPLE-SBS31_365_64
SAMPLE-SBS31_365_65
SAMPLE-SBS31_365_66
SAMPLE-SBS31_365_67
SAMPLE-SBS31_365_68
SAMPLE-SBS31_365_69
SAMPLE-SBS31_365_7
SAMPLE-SBS31_365_70
SAMPLE-SBS31_365_71
SAMPLE-SBS31_365_72
SAMPLE-SBS31_365_73
SAMPLE-SBS31_365_74
SAMPLE-SBS31_365_75
SAMPLE-SBS31_365_76
SAMPLE-SBS31_365_77
SAMPLE-SBS31_365_78
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SAMPLE-SBS31_365_80
SAMPLE-SBS31_365_81
SAMPLE-SBS31_365_82
SAMPLE-SBS31_365_83
SAMPLE-SBS31_365_84
SAMPLE-SBS31_365_85
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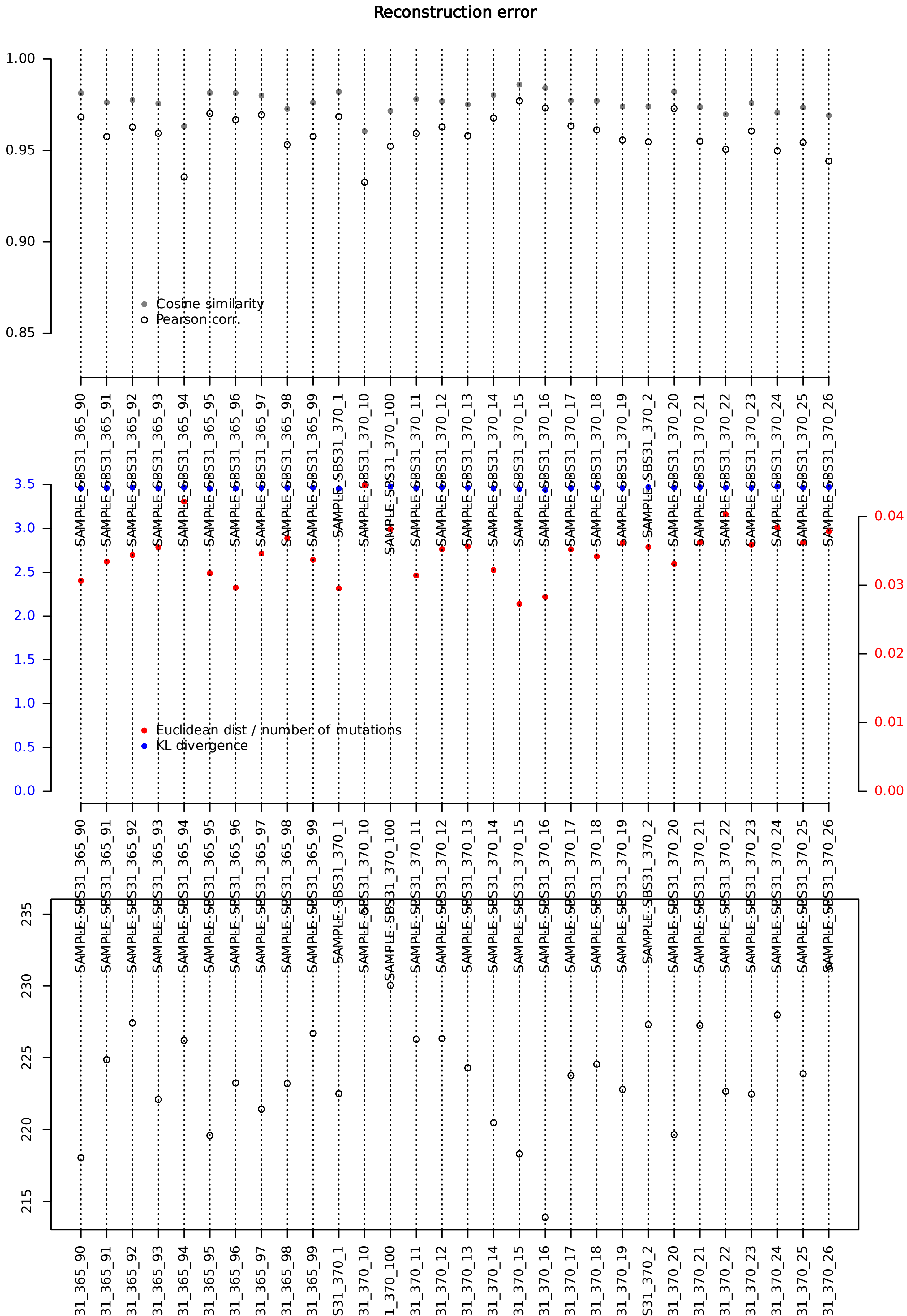
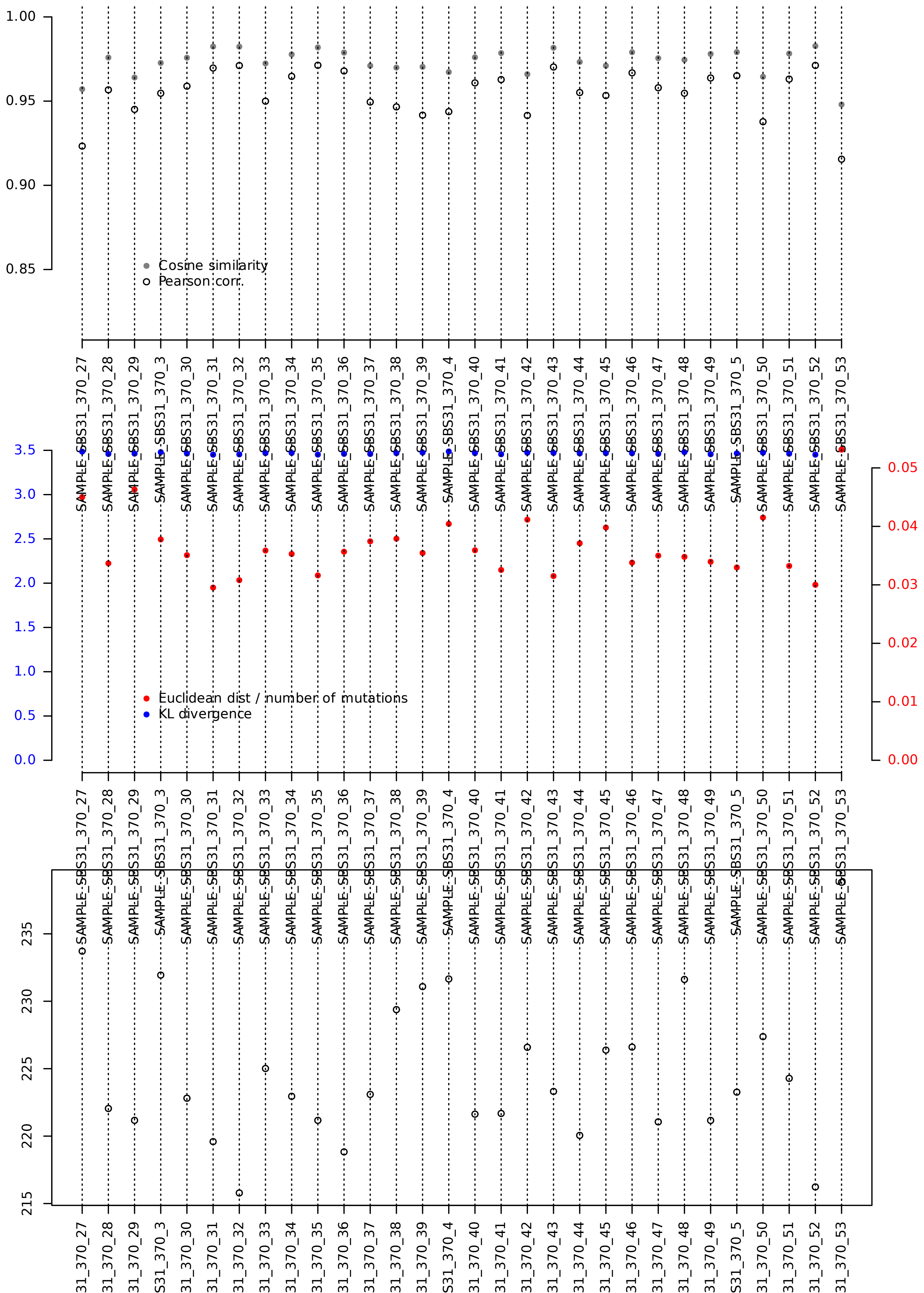
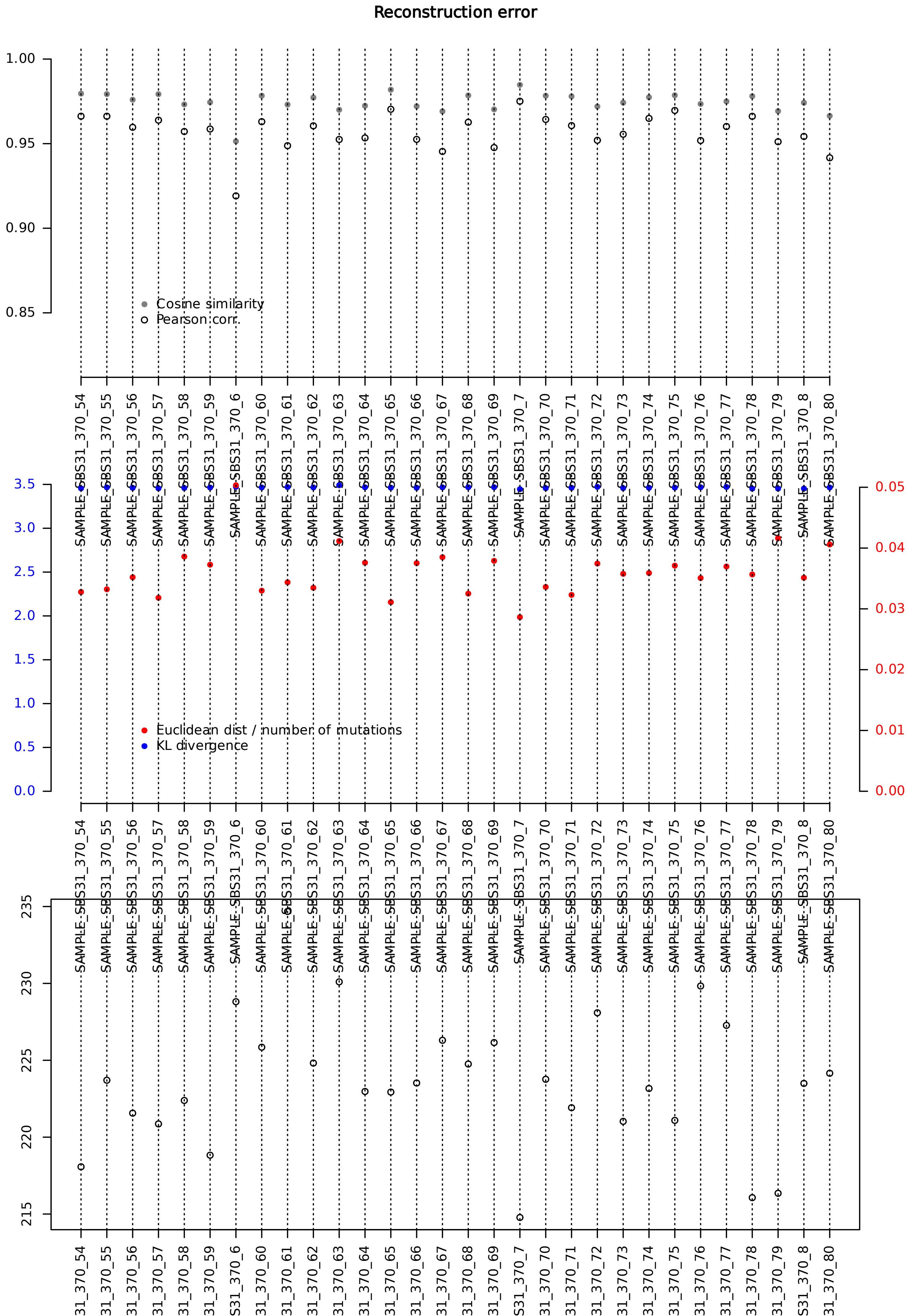
SAMPLE-SBS31_365_88
SAMPLE-SBS31_365_89
SAMPLE-SBS31_365_9


Reconstruction error

Reconstruction error




Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
SAMPLE-SBS31_370_54
SAMPLE-SBS31_370_55
SAMPLE-SBS31_370_56
SAMPLE-SBS31_370_57
SAMPLE-SBS31_370_58
SAMPLE-SBS31_370_59
SAMPLE-SBS31_370_6
SAMPLE-SBS31_370_60
SAMPLE-SBS31_370_61
SAMPLE-SBS31_370_62
SAMPLE-SBS31_370_63
SAMPLE-SBS31_370_64
SAMPLE-SBS31_370_65
SAMPLE-SBS31_370_66
SAMPLE-SBS31_370_67
SAMPLE-SBS31_370_68
SAMPLE-SBS31_370_69
SAMPLE-SBS31_370_7
SAMPLE-SBS31_370_70
SAMPLE-SBS31_370_71
SAMPLE-SBS31_370_72
SAMPLE-SBS31_370_73
SAMPLE-SBS31_370_74
SAMPLE-SBS31_370_75
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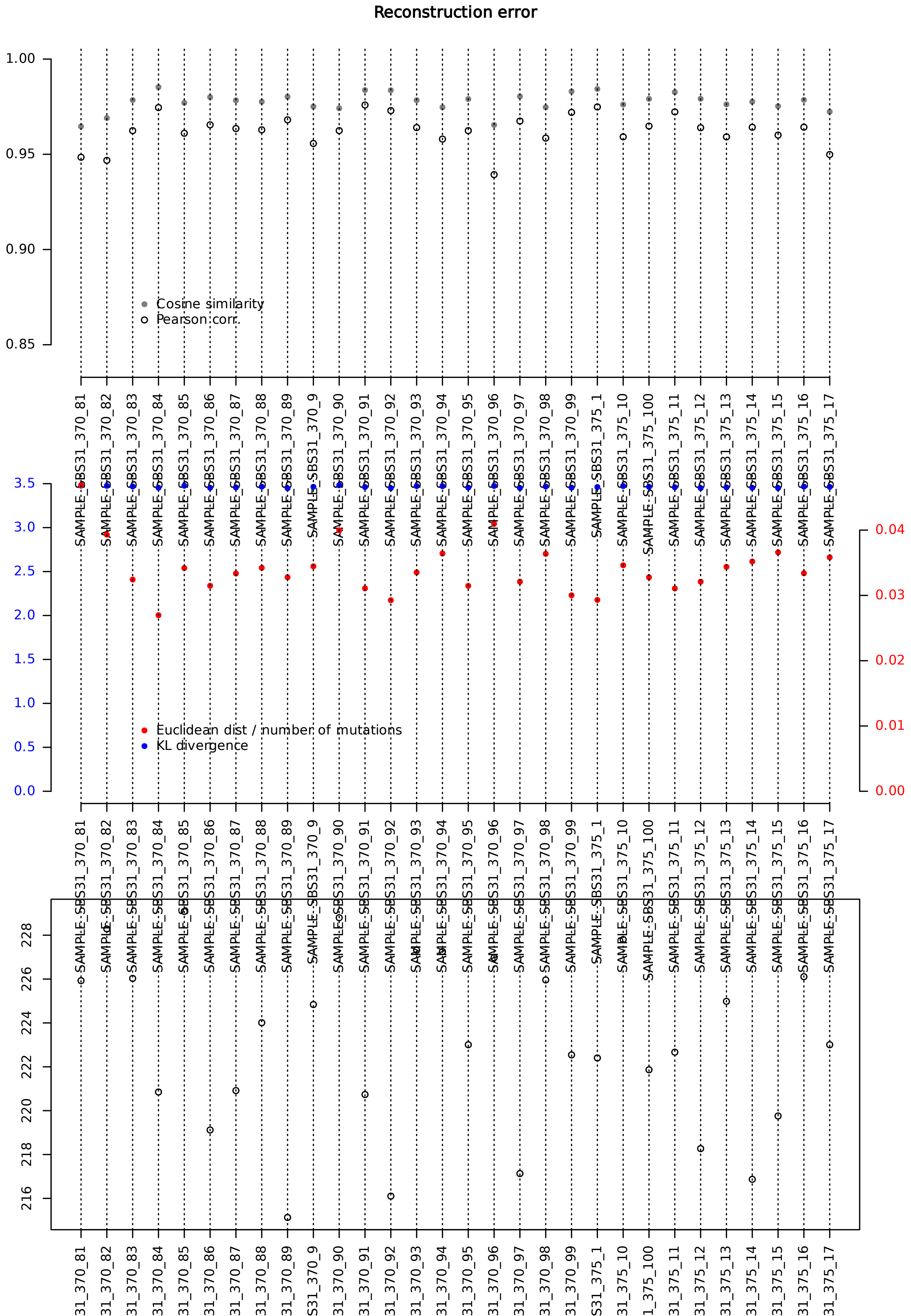
SAMPLE-SBS31_370_79
SAMPLE-SBS31_370_8
SAMPLE-SBS31_370_80
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.05
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
220
215


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
228
226
224
222
220
218
216
SAMPLE-SBS31_370_81
SAMPLE-SBS31_370_82
SAMPLE-SBS31_370_83
SAMPLE-SBS31_370_84
SAMPLE-SBS31_370_85
SAMPLE-SBS31_370_86
SAMPLE-SBS31_370_87
SAMPLE-SBS31_370_88
SAMPLE-SBS31_370_89
SAMPLE-SBS31_370_9
SAMPLE-SBS31_370_90
SAMPLE-SBS31_370_91
SAMPLE-SBS31_370_92
SAMPLE-SBS31_370_93
SAMPLE-SBS31_370_94
SAMPLE-SBS31_370_95
SAMPLE-SBS31_370_96
SAMPLE-SBS31_370_97
SAMPLE-SBS31_370_98
SAMPLE-SBS31_370_99
SAMPLE-SBS31_375_1
SAMPLE-SBS31_375_10
SAMPLE-SBS31_375_100
SAMPLE-SBS31_375_11
SAMPLE-SBS31_375_12
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SAMPLE-SBS31_375_14
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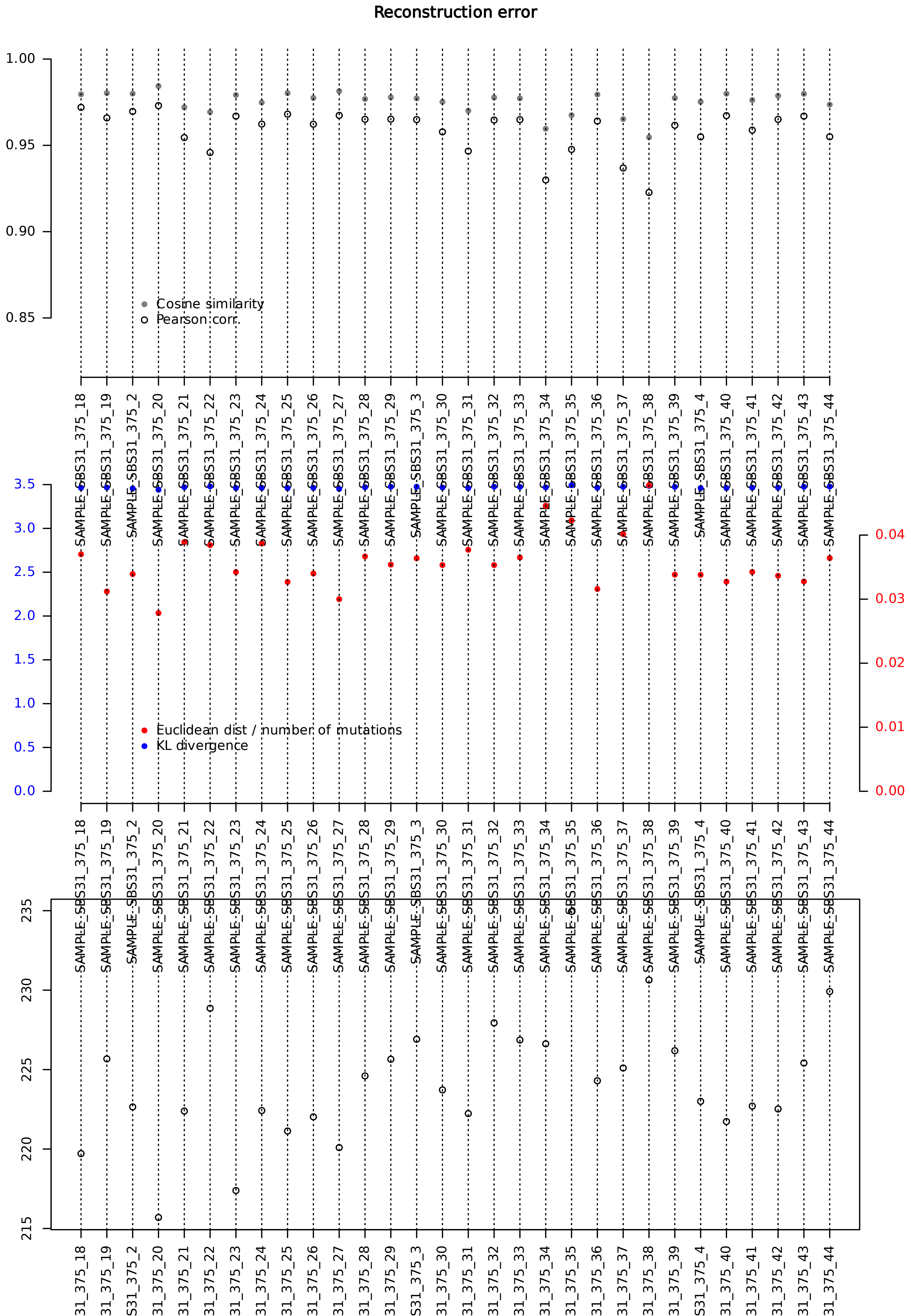
SAMPLE-SBS31_375_16
SAMPLE-SBS31_375_17


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
SAMPLE-SBS31_375_18
SAMPLE-SBS31_375_19
SAMPLE-SBS31_375_2
SAMPLE-SBS31_375_20
SAMPLE-SBS31_375_21
SAMPLE-SBS31_375_22
SAMPLE-SBS31_375_23
SAMPLE-SBS31_375_24
SAMPLE-SBS31_375_25
SAMPLE-SBS31_375_26
SAMPLE-SBS31_375_27
SAMPLE-SBS31_375_28
SAMPLE-SBS31_375_29
SAMPLE-SBS31_375_3
SAMPLE-SBS31_375_30
SAMPLE-SBS31_375_31
SAMPLE-SBS31_375_32
SAMPLE-SBS31_375_33
SAMPLE-SBS31_375_34
SAMPLE-SBS31_375_35
SAMPLE-SBS31_375_36
SAMPLE-SBS31_375_37
SAMPLE-SBS31_375_38
SAMPLE-SBS31_375_39
SAMPLE-SBS31_375_4
SAMPLE-SBS31_375_40
SAMPLE-SBS31_375_41
SAMPLE-SBS31_375_42
SAMPLE-SBS31_375_43
SAMPLE-SBS31_375_44
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
220
215
31_375_18
31_375_19
S31_375_2
31_375_20
31_375_21
31_375_22
31_375_23
31_375_24
31_375_25
31_375_26
31_375_27
31_375_28
31_375_29
S31_375_3
31_375_30
31_375_31
31_375_32
31_375_33
31_375_34
31_375_35
31_375_36
31_375_37
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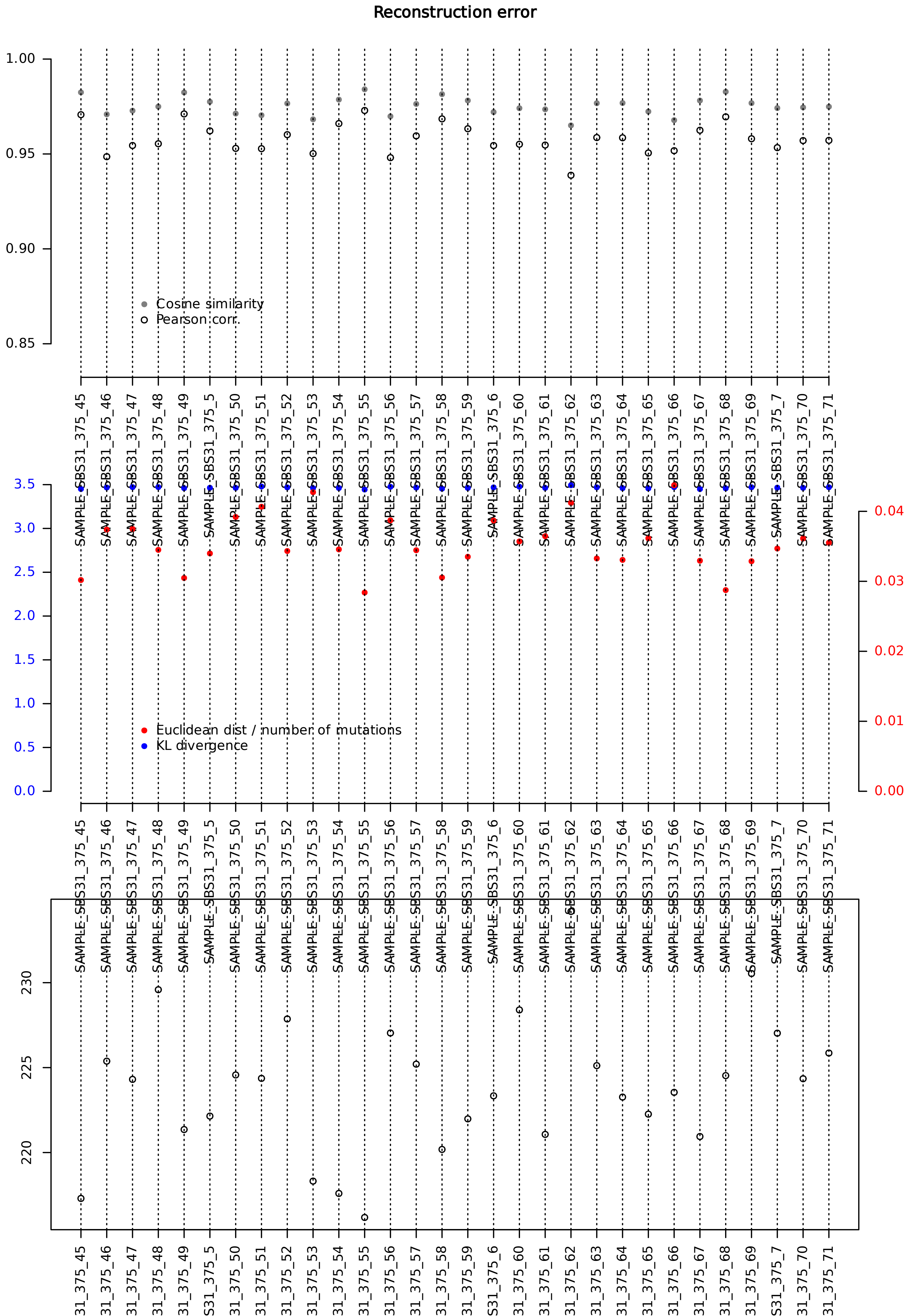
31_375_44


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
230
225
220
SAMPLE-SBS31_375_45
SAMPLE-SBS31_375_46
SAMPLE-SBS31_375_47
SAMPLE-SBS31_375_48
SAMPLE-SBS31_375_49
SAMPLE-SBS31_375_5
SAMPLE-SBS31_375_50
SAMPLE-SBS31_375_51
SAMPLE-SBS31_375_52
SAMPLE-SBS31_375_53
SAMPLE-SBS31_375_54
SAMPLE-SBS31_375_55
SAMPLE-SBS31_375_56
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SAMPLE-SBS31_375_6
SAMPLE-SBS31_375_60
SAMPLE-SBS31_375_61
SAMPLE-SBS31_375_62
SAMPLE-SBS31_375_63
SAMPLE-SBS31_375_64
SAMPLE-SBS31_375_65
SAMPLE-SBS31_375_66
SAMPLE-SBS31_375_67
SAMPLE-SBS31_375_68
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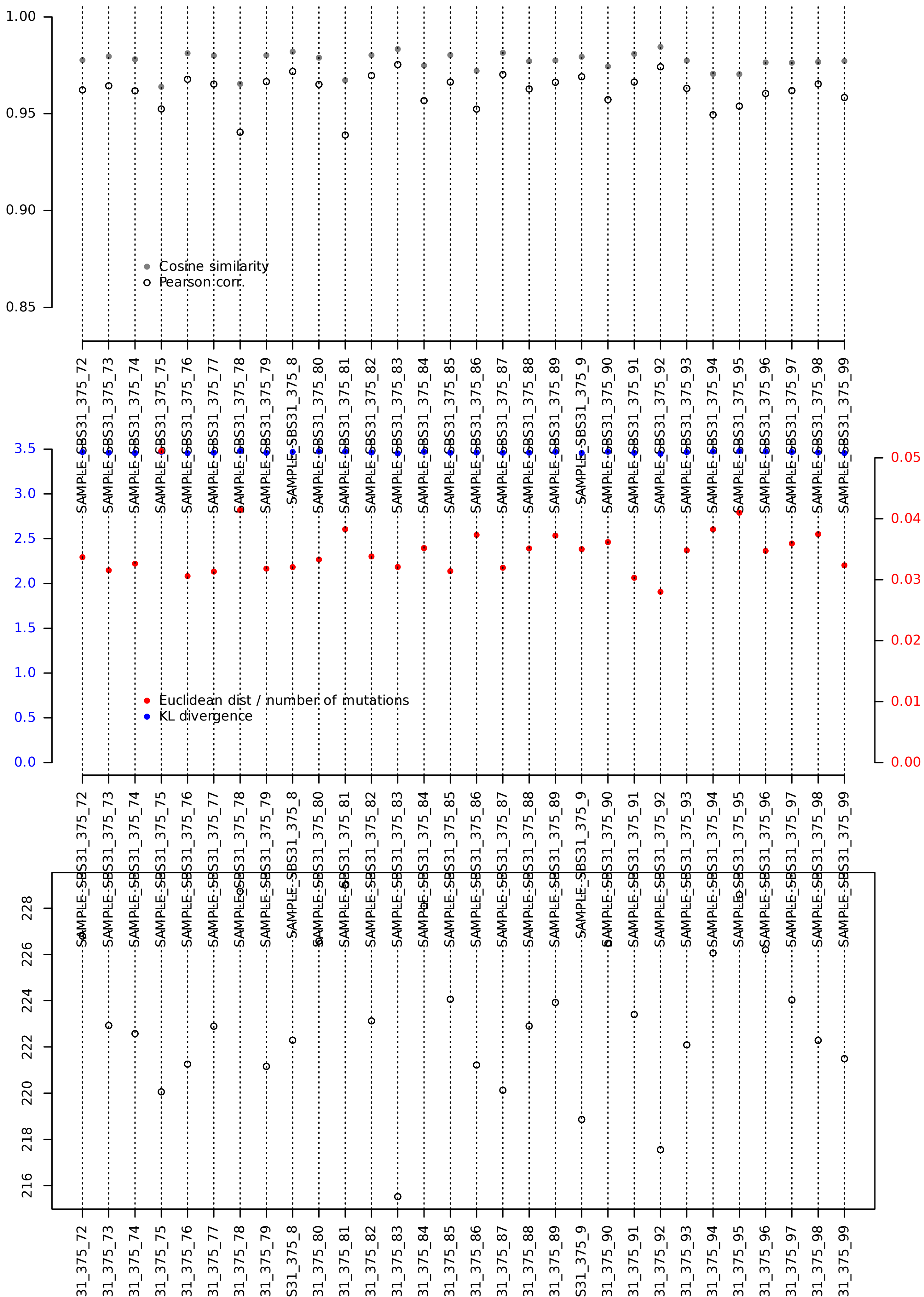
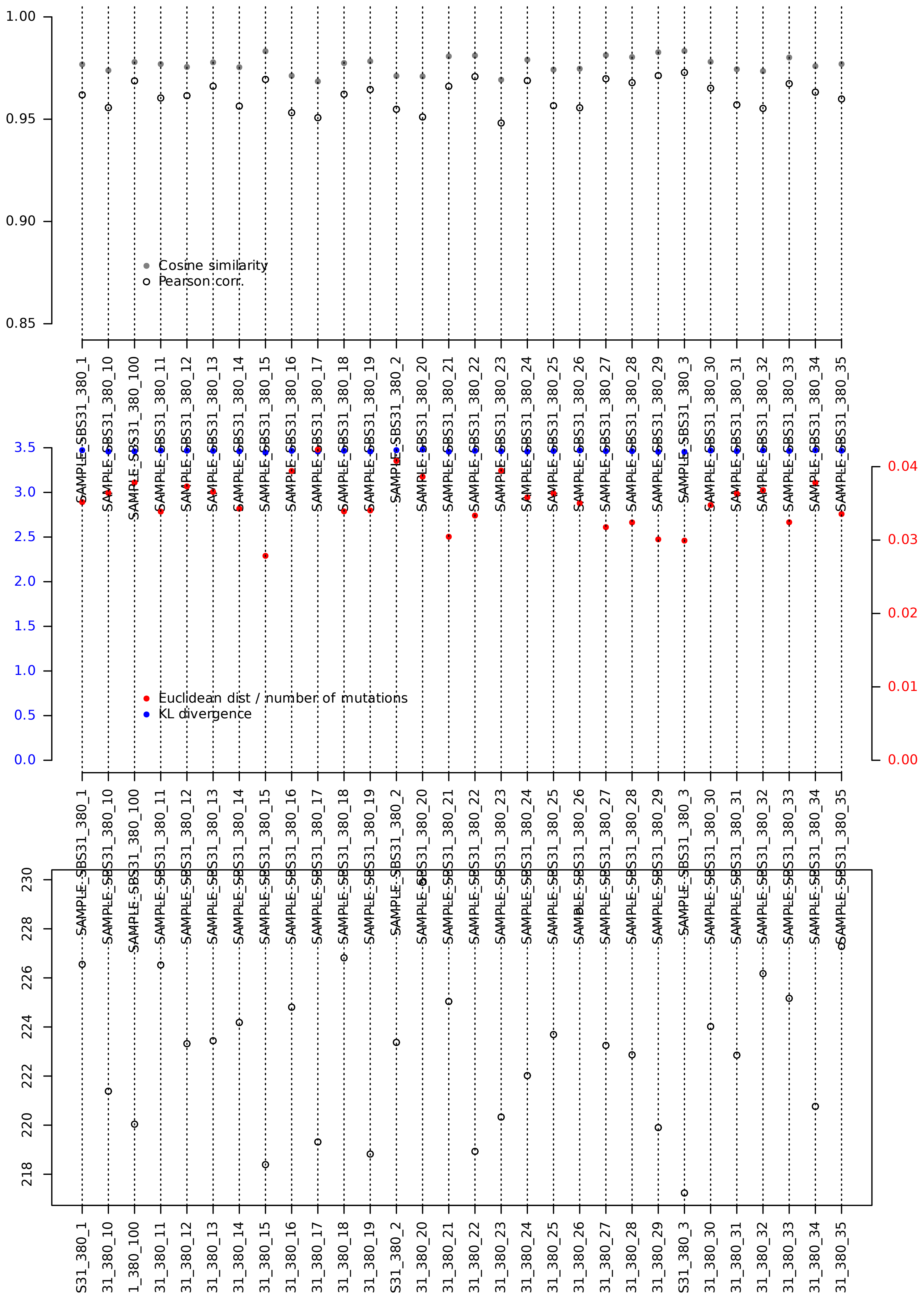
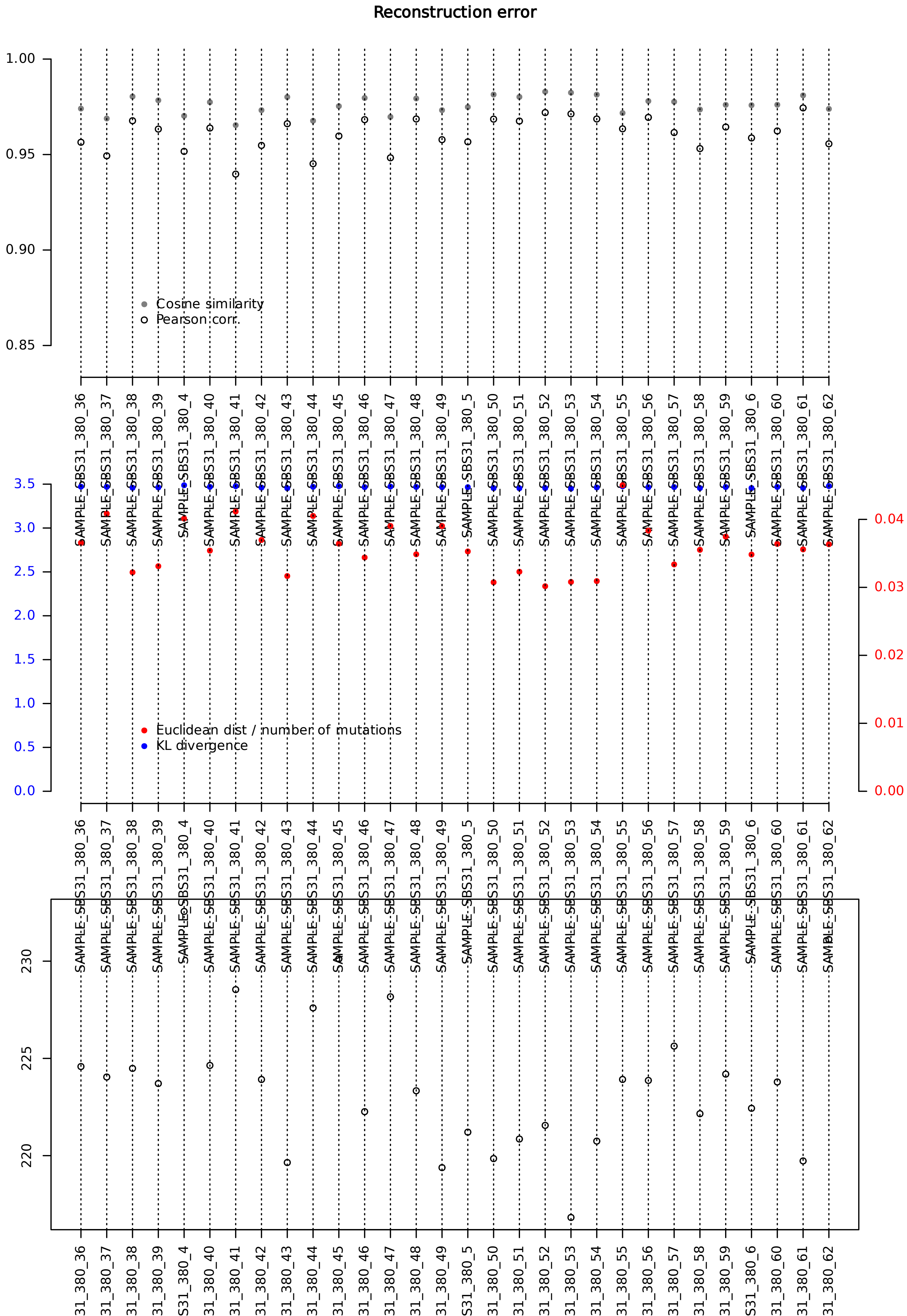
SAMPLE-SBS31_375_71

Reconstruction error



Reconstruction error




Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
230
225
220
SAMPLE-SBS31_380_36
SAMPLE-SBS31_380_37
SAMPLE-SBS31_380_38
SAMPLE-SBS31_380_39
SAMPLE-SBS31_380_4
SAMPLE-SBS31_380_40
SAMPLE-SBS31_380_41
SAMPLE-SBS31_380_42
SAMPLE-SBS31_380_43
SAMPLE-SBS31_380_44
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SAMPLE-SBS31_380_46
SAMPLE-SBS31_380_47
SAMPLE-SBS31_380_48
SAMPLE-SBS31_380_49
SAMPLE-SBS31_380_5
SAMPLE-SBS31_380_50
SAMPLE-SBS31_380_51
SAMPLE-SBS31_380_52
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SAMPLE-SBS31_380_55
SAMPLE-SBS31_380_56
SAMPLE-SBS31_380_57
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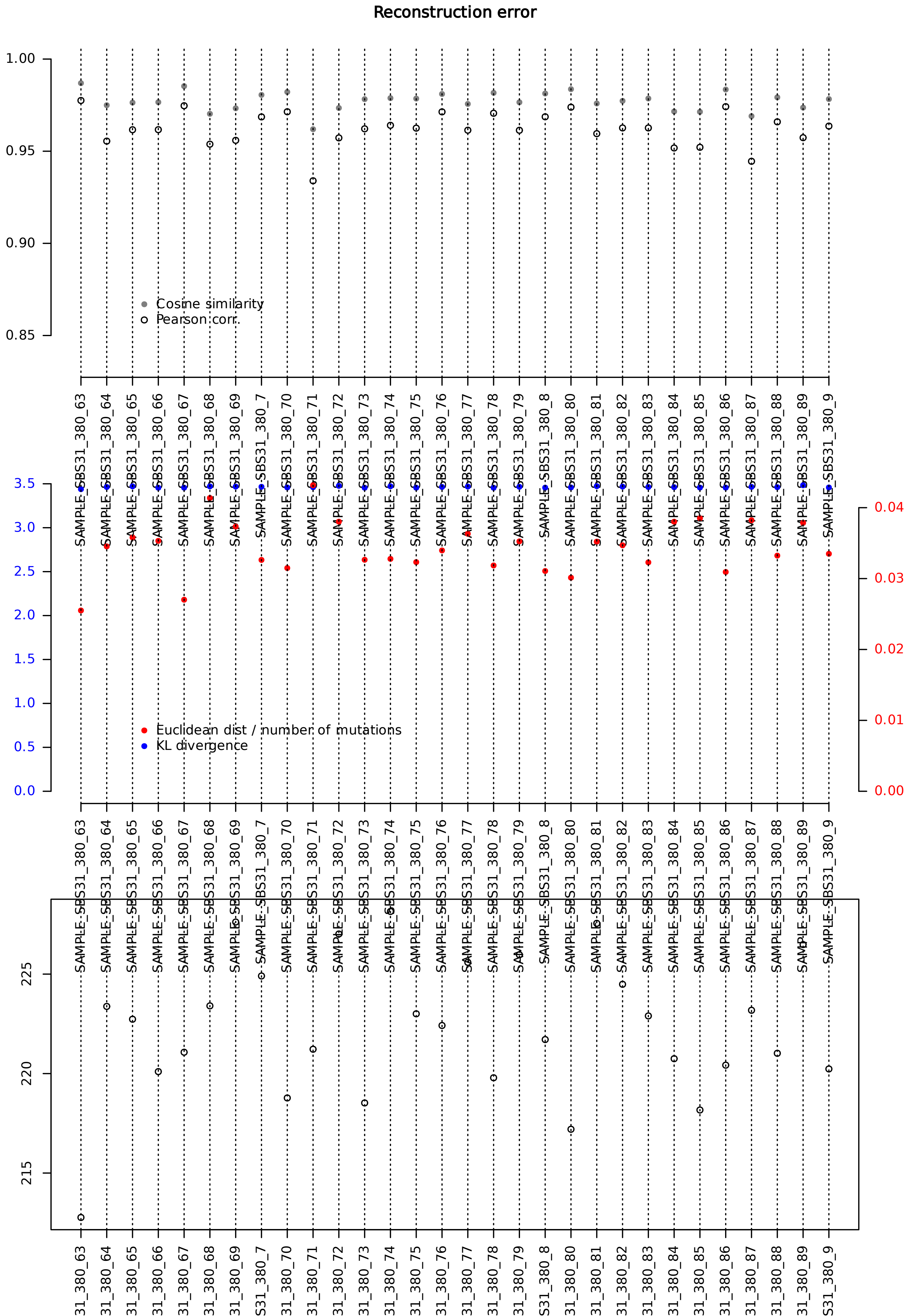
SAMPLE-SBS31_380_62


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
SAMPLE-SBS31_380_63
SAMPLE-SBS31_380_64
SAMPLE-SBS31_380_65
SAMPLE-SBS31_380_66
SAMPLE-SBS31_380_67
SAMPLE-SBS31_380_68
SAMPLE-SBS31_380_69
SAMPLE-SBS31_380_7
SAMPLE-SBS31_380_70
SAMPLE-SBS31_380_71
SAMPLE-SBS31_380_72
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SAMPLE-SBS31_380_79
SAMPLE-SBS31_380_8
SAMPLE-SBS31_380_80
SAMPLE-SBS31_380_81
SAMPLE-SBS31_380_82
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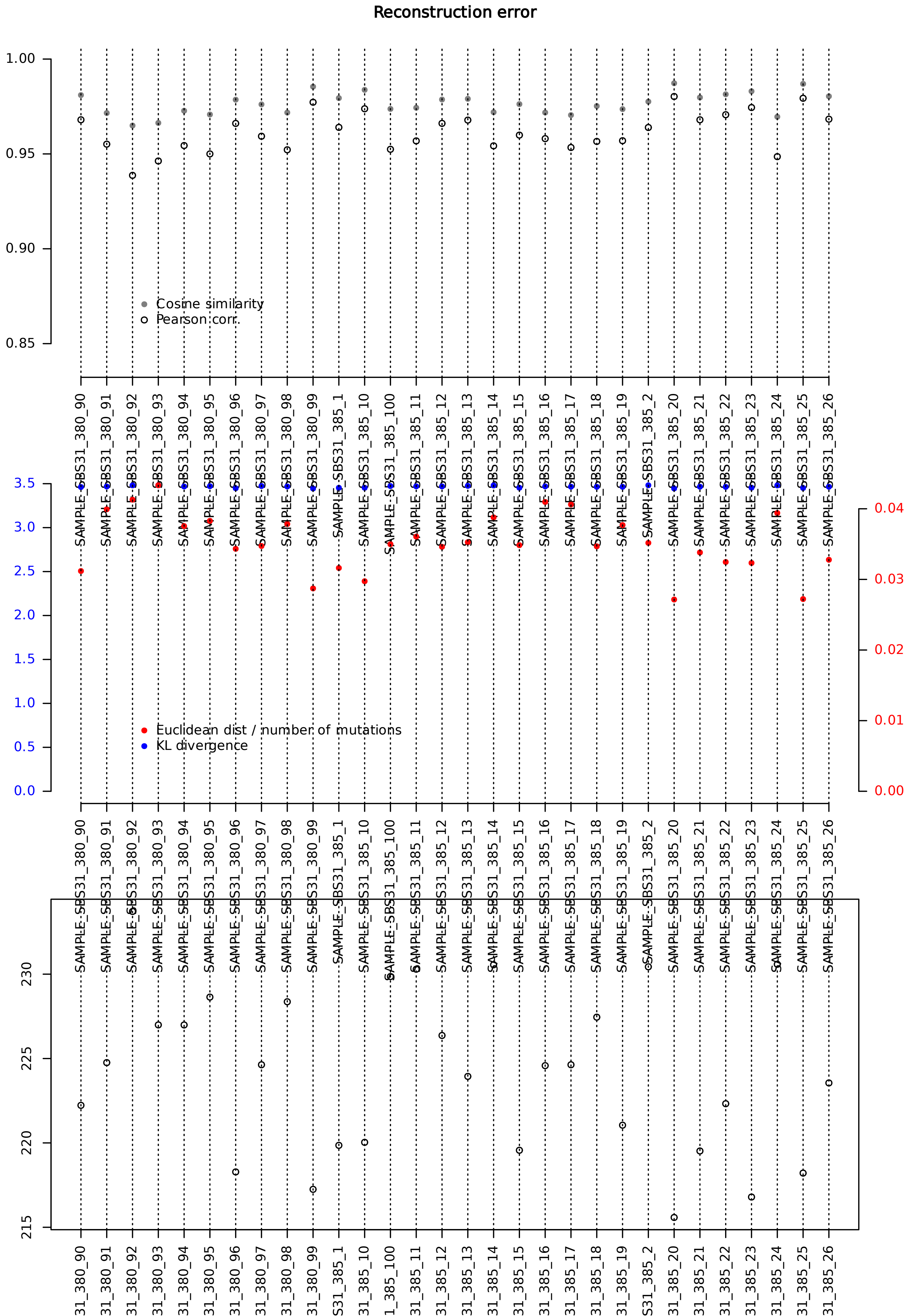
SAMPLE-SBS31_380_84
SAMPLE-SBS31_380_85
SAMPLE-SBS31_380_86
SAMPLE-SBS31_380_87
SAMPLE-SBS31_380_88
SAMPLE-SBS31_380_89
SAMPLE-SBS31_380_9
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
225
220
215


Reconstruction error
1.00
0.95
0.90
0.85
● Cosine similarity
○ Pearson corr.
SAMPLE-SBS31_380_90
SAMPLE-SBS31_380_91
SAMPLE-SBS31_380_92
SAMPLE-SBS31_380_93
SAMPLE-SBS31_380_94
SAMPLE-SBS31_380_95
SAMPLE-SBS31_380_96
SAMPLE-SBS31_380_97
SAMPLE-SBS31_380_98
SAMPLE-SBS31_380_99
SAMPLE-SBS31_385_1
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SAMPLE-SBS31_385_13
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SAMPLE-SBS31_385_15
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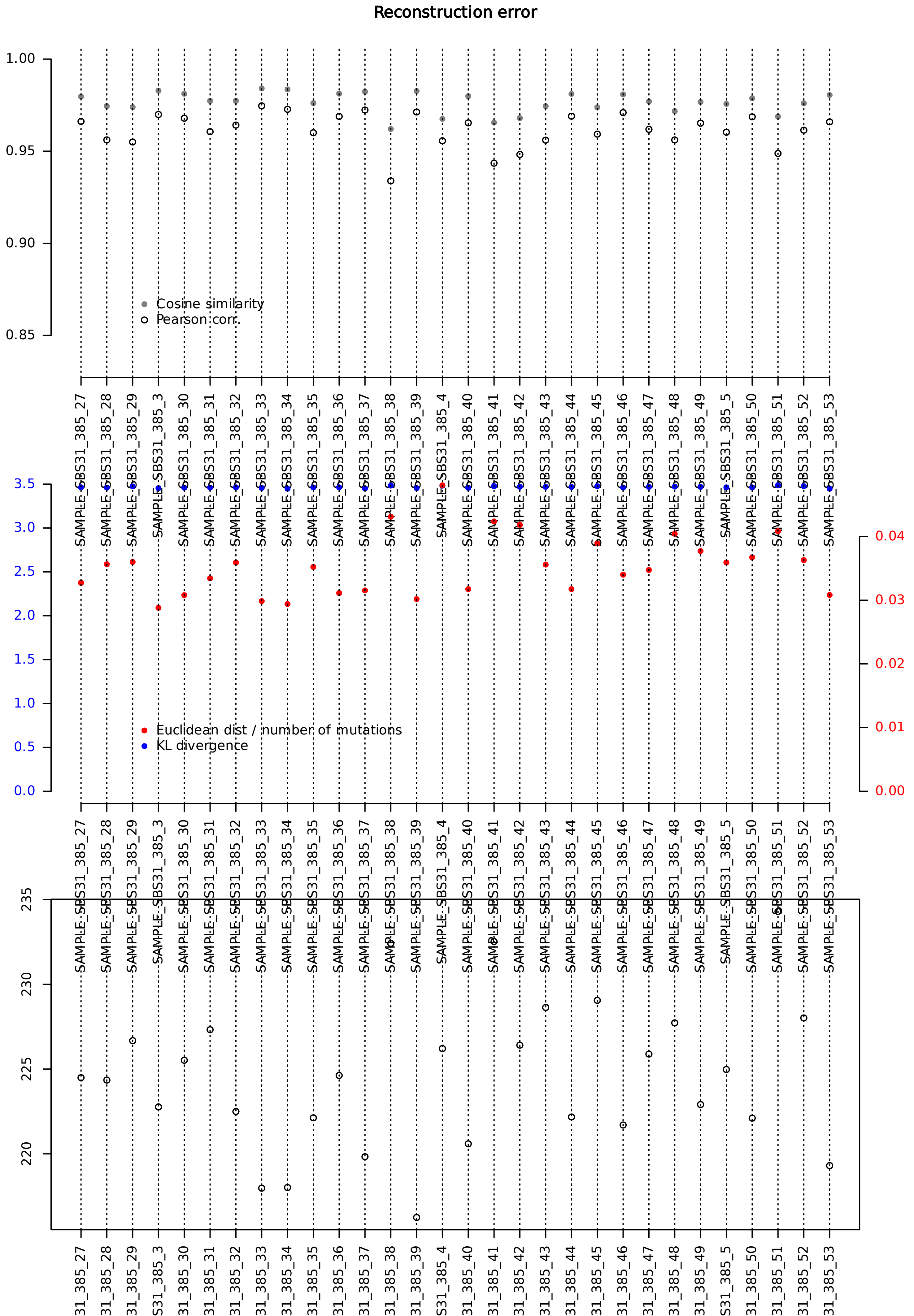
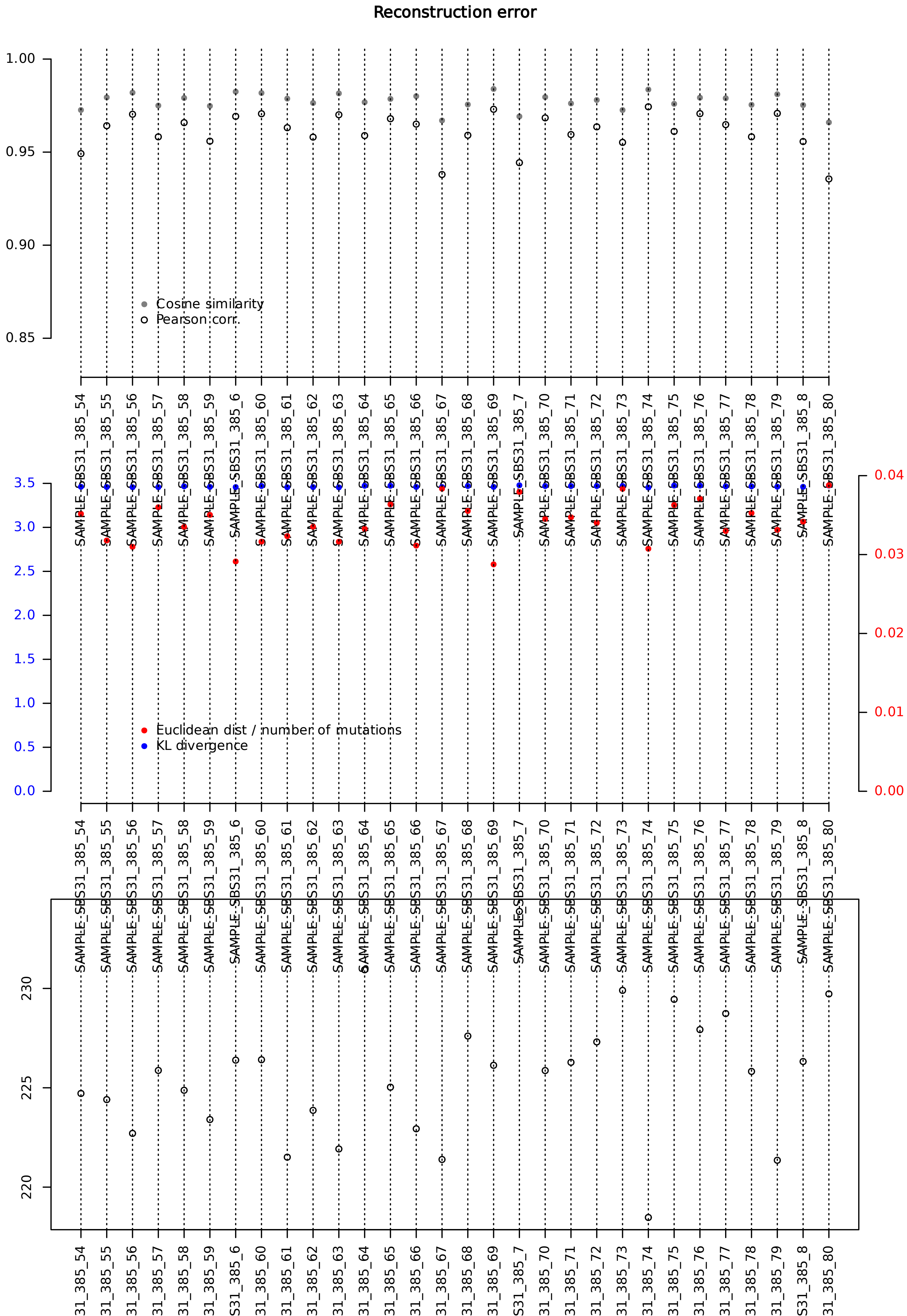
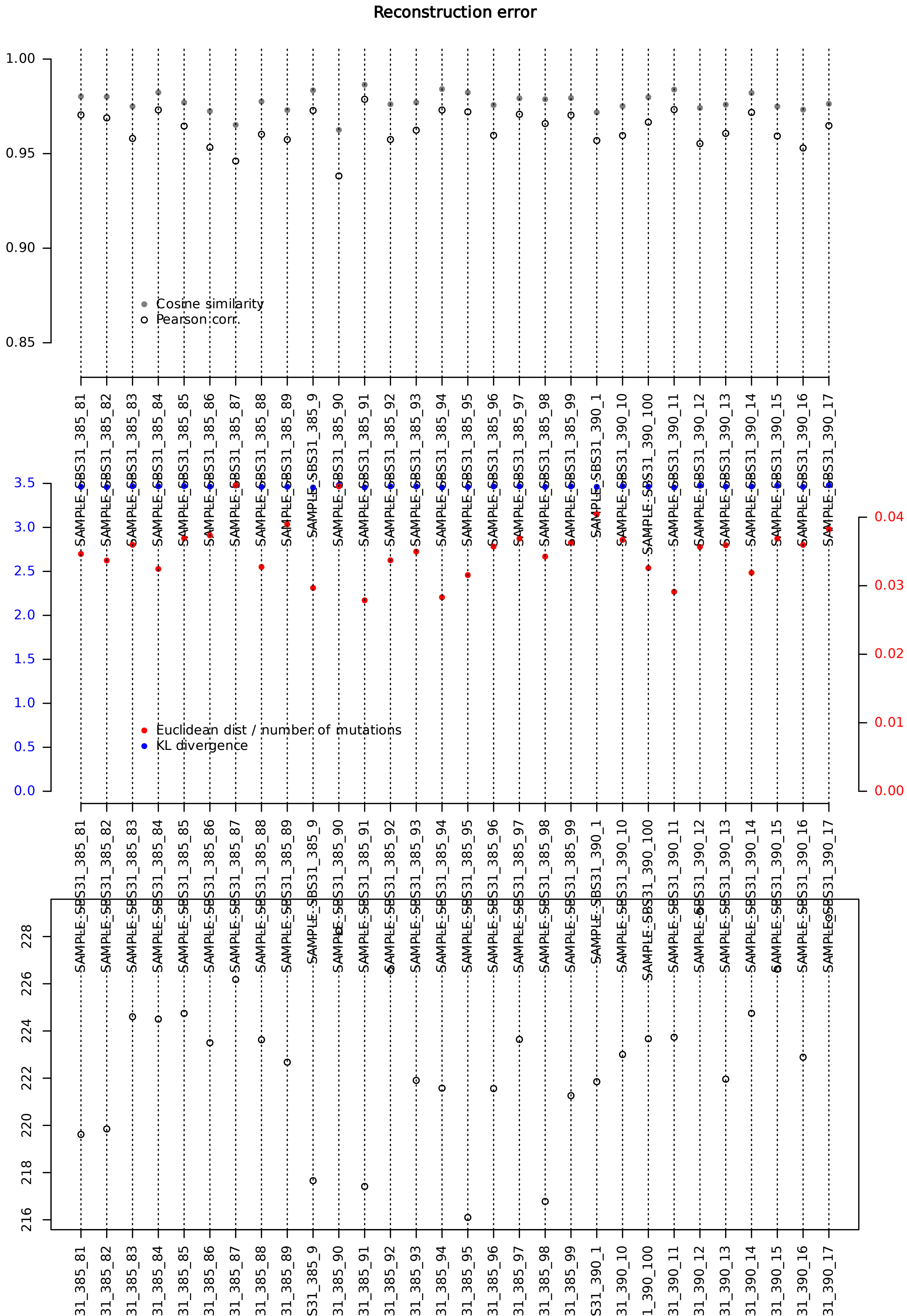
SAMPLE-SBS31_385_17
SAMPLE-SBS31_385_18
SAMPLE-SBS31_385_19
SAMPLE-SBS31_385_2
SAMPLE-SBS31_385_20
SAMPLE-SBS31_385_21
SAMPLE-SBS31_385_22
SAMPLE-SBS31_385_23
SAMPLE-SBS31_385_24
SAMPLE-SBS31_385_25
SAMPLE-SBS31_385_26
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
● Euclidean dist / number of mutations
● KL divergence
230
225
220
215


Reconstruction error


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
230
225
220
SAMPLE-SBS31_385_54
SAMPLE-SBS31_385_55
SAMPLE-SBS31_385_56
SAMPLE-SBS31_385_57
SAMPLE-SBS31_385_58
SAMPLE-SBS31_385_59
SAMPLE-SBS31_385_6
SAMPLE-SBS31_385_60
SAMPLE-SBS31_385_61
SAMPLE-SBS31_385_62
SAMPLE-SBS31_385_63
SAMPLE-SBS31_385_64
SAMPLE-SBS31_385_65
SAMPLE-SBS31_385_66
SAMPLE-SBS31_385_67
SAMPLE-SBS31_385_68
SAMPLE-SBS31_385_69
SAMPLE-SBS31_385_7
SAMPLE-SBS31_385_70
SAMPLE-SBS31_385_71
SAMPLE-SBS31_385_72
SAMPLE-SBS31_385_73
SAMPLE-SBS31_385_74
SAMPLE-SBS31_385_75
SAMPLE-SBS31_385_76
SAMPLE-SBS31_385_77
SAMPLE-SBS31_385_78
SAMPLE-SBS31_385_79
SAMPLE-SBS31_385_8
SAMPLE-SBS31_385_80


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
228
226
224
222
220
218
216
SAMPLE-SBS31_385_81
SAMPLE-SBS31_385_82
SAMPLE-SBS31_385_83
SAMPLE-SBS31_385_84
SAMPLE-SBS31_385_85
SAMPLE-SBS31_385_86
SAMPLE-SBS31_385_87
SAMPLE-SBS31_385_88
SAMPLE-SBS31_385_89
SAMPLE-SBS31_385_9
SAMPLE-SBS31_385_90
SAMPLE-SBS31_385_91
SAMPLE-SBS31_385_92
SAMPLE-SBS31_385_93
SAMPLE-SBS31_385_94
SAMPLE-SBS31_385_95
SAMPLE-SBS31_385_96
SAMPLE-SBS31_385_97
SAMPLE-SBS31_385_98
SAMPLE-SBS31_385_99
SAMPLE-SBS31_390_1
SAMPLE-SBS31_390_10
SAMPLE-SBS31_390_100
SAMPLE-SBS31_390_11
SAMPLE-SBS31_390_12
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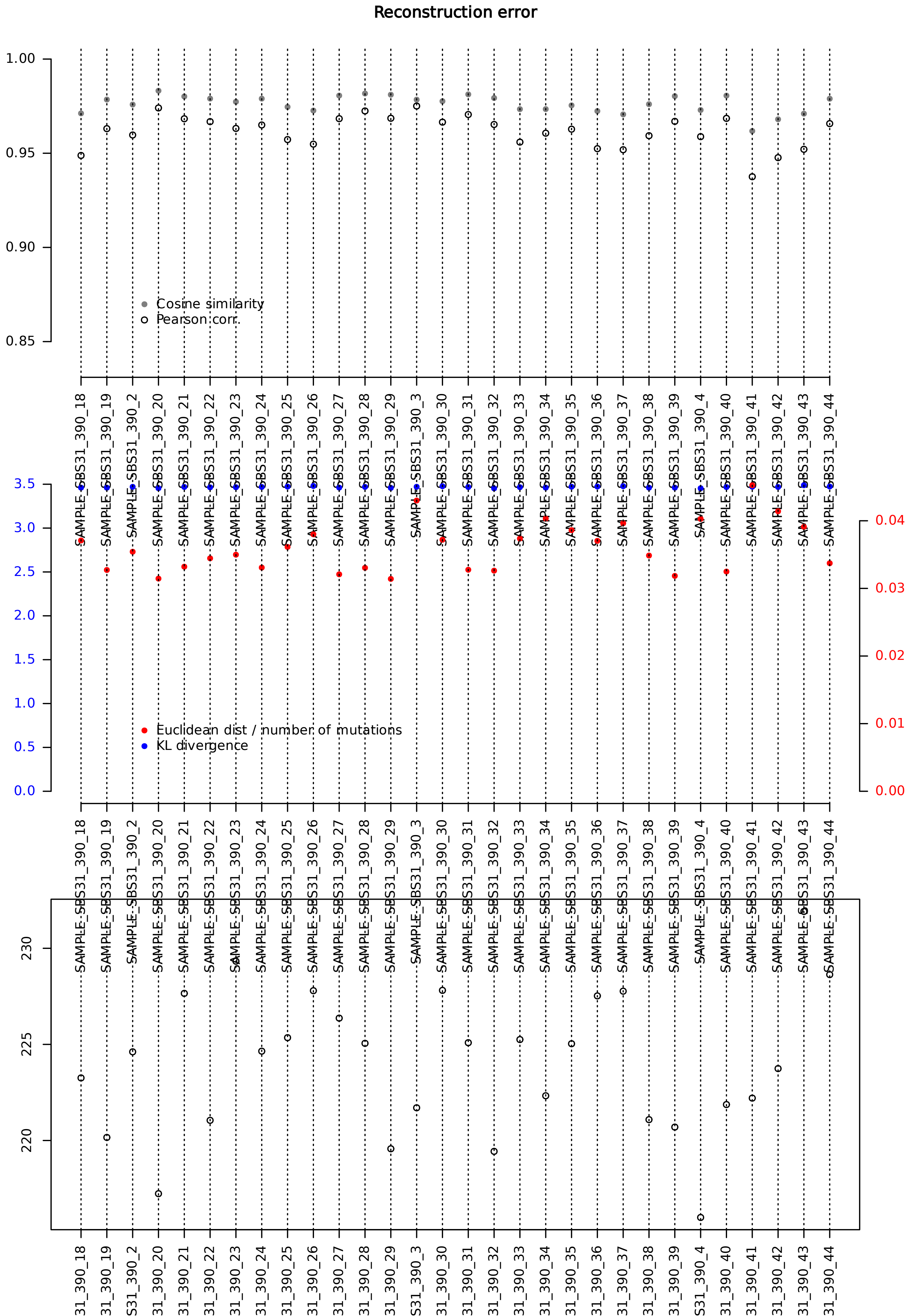
SAMPLE-SBS31_390_16
SAMPLE-SBS31_390_17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0.85
Cosine similarity
Pearson corr.
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SAMPLE-SBS31_390_19
SAMPLE-SBS31_390_2
SAMPLE-SBS31_390_20
SAMPLE-SBS31_390_21
SAMPLE-SBS31_390_22
SAMPLE-SBS31_390_23
SAMPLE-SBS31_390_24
SAMPLE-SBS31_390_25
SAMPLE-SBS31_390_26
SAMPLE-SBS31_390_27
SAMPLE-SBS31_390_28
SAMPLE-SBS31_390_29
SAMPLE-SBS31_390_3
SAMPLE-SBS31_390_30
SAMPLE-SBS31_390_31
SAMPLE-SBS31_390_32
SAMPLE-SBS31_390_33
SAMPLE-SBS31_390_34
SAMPLE-SBS31_390_35
SAMPLE-SBS31_390_36
SAMPLE-SBS31_390_37
SAMPLE-SBS31_390_38
SAMPLE-SBS31_390_39
SAMPLE-SBS31_390_4
SAMPLE-SBS31_390_40
SAMPLE-SBS31_390_41
SAMPLE-SBS31_390_42
SAMPLE-SBS31_390_43
SAMPLE-SBS31_390_44
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
230
225
220
31_390_18
31_390_19
S31_390_2
31_390_20
31_390_21
31_390_22
31_390_23
31_390_24
31_390_25
31_390_26
31_390_27
31_390_28
31_390_29
S31_390_3
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31_390_31
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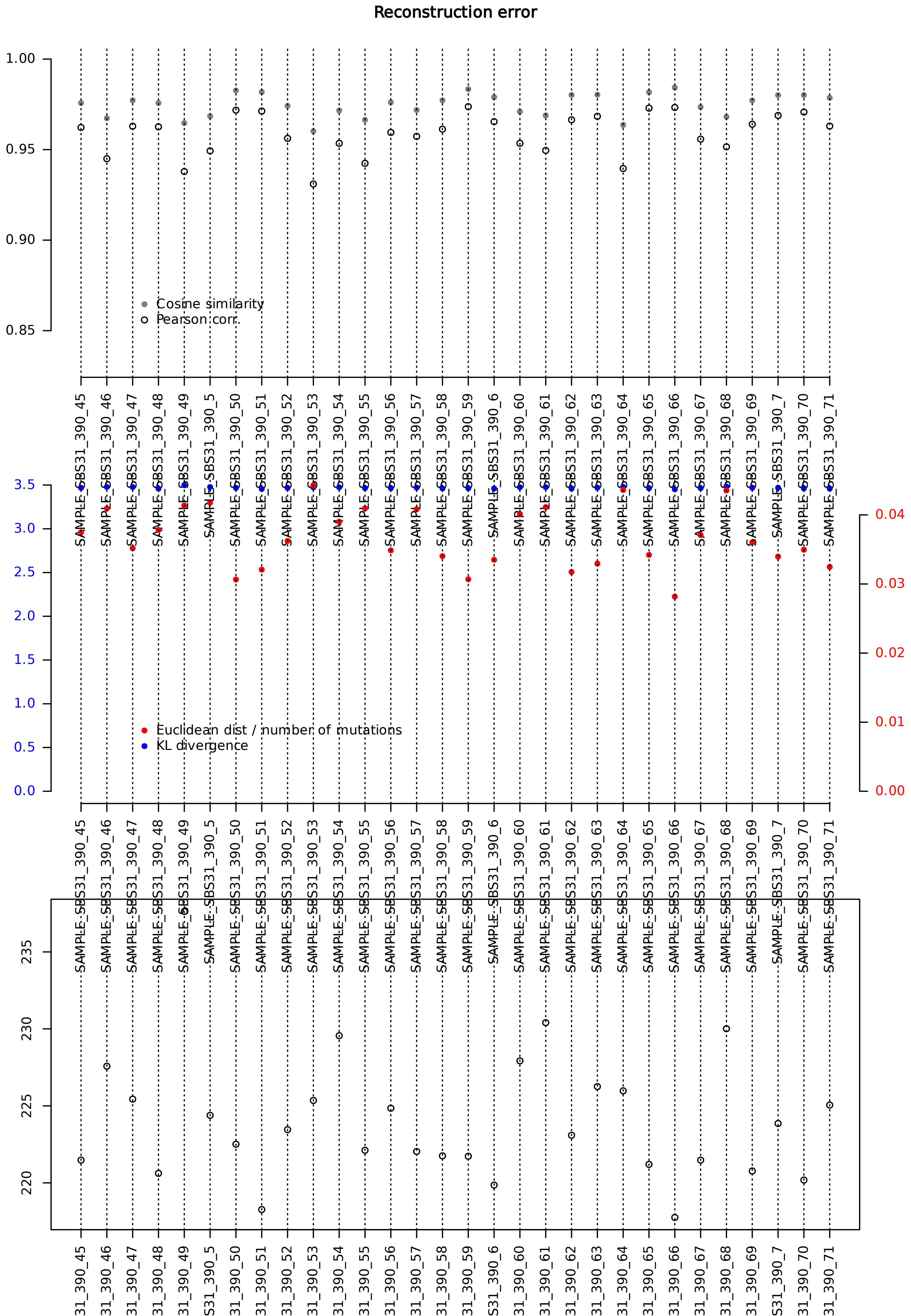
31_390_43
31_390_44


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
220
SAMPLE-SBS31_390_45
SAMPLE-SBS31_390_46
SAMPLE-SBS31_390_47
SAMPLE-SBS31_390_48
SAMPLE-SBS31_390_49
SAMPLE-SBS31_390_5
SAMPLE-SBS31_390_50
SAMPLE-SBS31_390_51
SAMPLE-SBS31_390_52
SAMPLE-SBS31_390_53
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SAMPLE-SBS31_390_55
SAMPLE-SBS31_390_56
SAMPLE-SBS31_390_57
SAMPLE-SBS31_390_58
SAMPLE-SBS31_390_59
SAMPLE-SBS31_390_6
SAMPLE-SBS31_390_60
SAMPLE-SBS31_390_61
SAMPLE-SBS31_390_62
SAMPLE-SBS31_390_63
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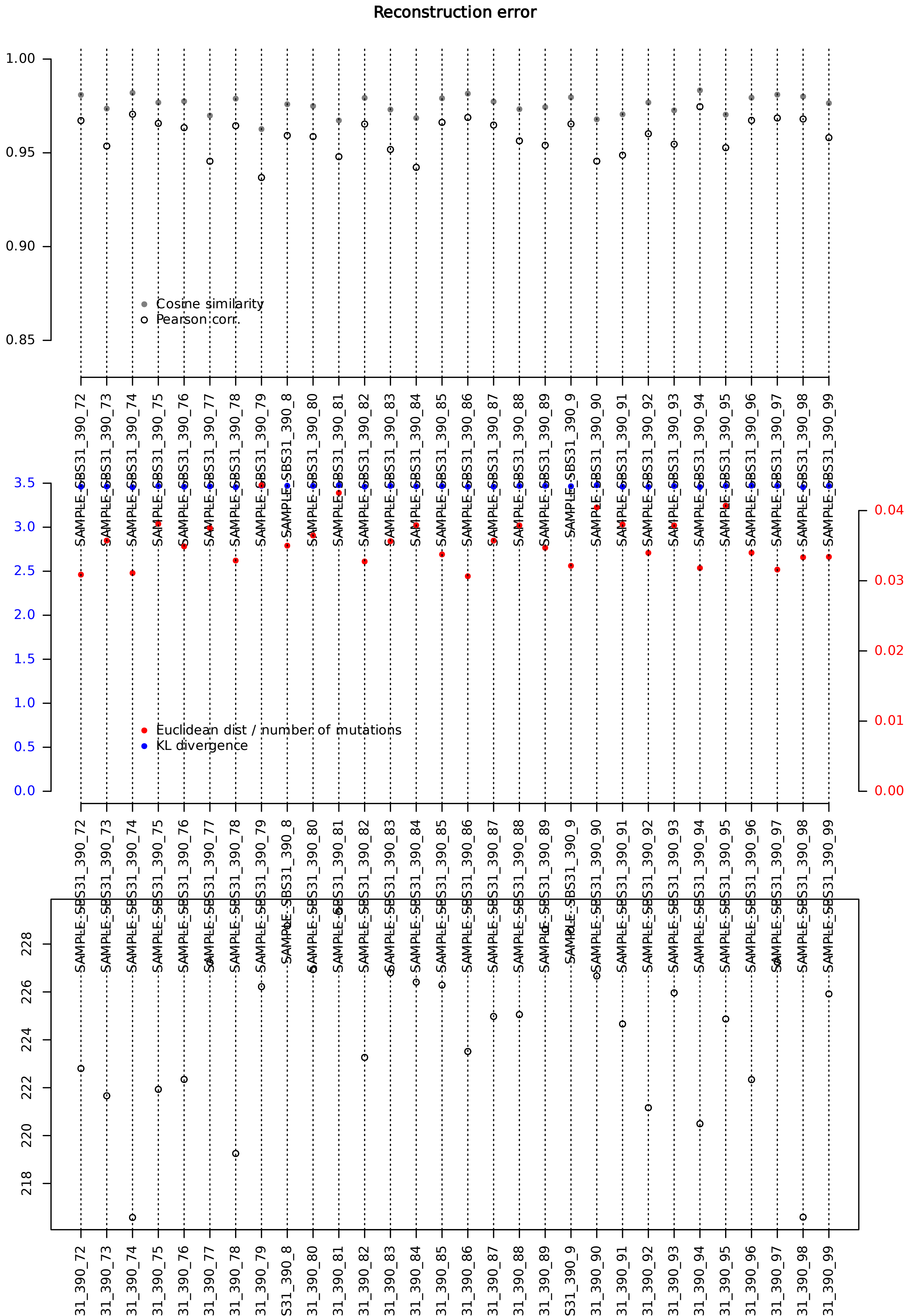
SAMPLE-SBS31_390_65
SAMPLE-SBS31_390_66
SAMPLE-SBS31_390_67
SAMPLE-SBS31_390_68
SAMPLE-SBS31_390_69
SAMPLE-SBS31_390_7
SAMPLE-SBS31_390_70
SAMPLE-SBS31_390_71


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
SAMPLE-SBS31_390_72
SAMPLE-SBS31_390_73
SAMPLE-SBS31_390_74
SAMPLE-SBS31_390_75
SAMPLE-SBS31_390_76
SAMPLE-SBS31_390_77
SAMPLE-SBS31_390_78
SAMPLE-SBS31_390_79
SAMPLE-SBS31_390_8
SAMPLE-SBS31_390_80
SAMPLE-SBS31_390_81
SAMPLE-SBS31_390_82
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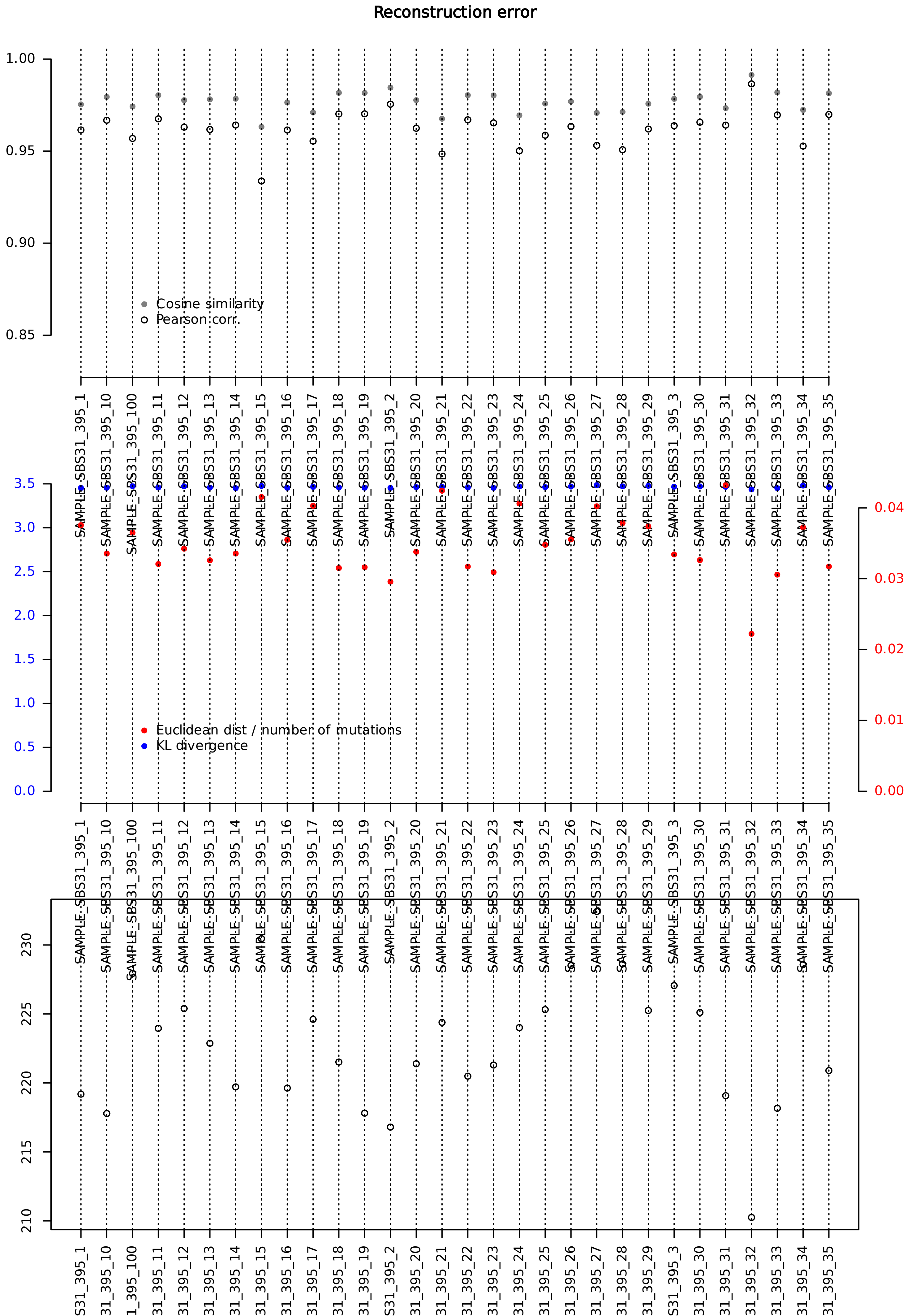
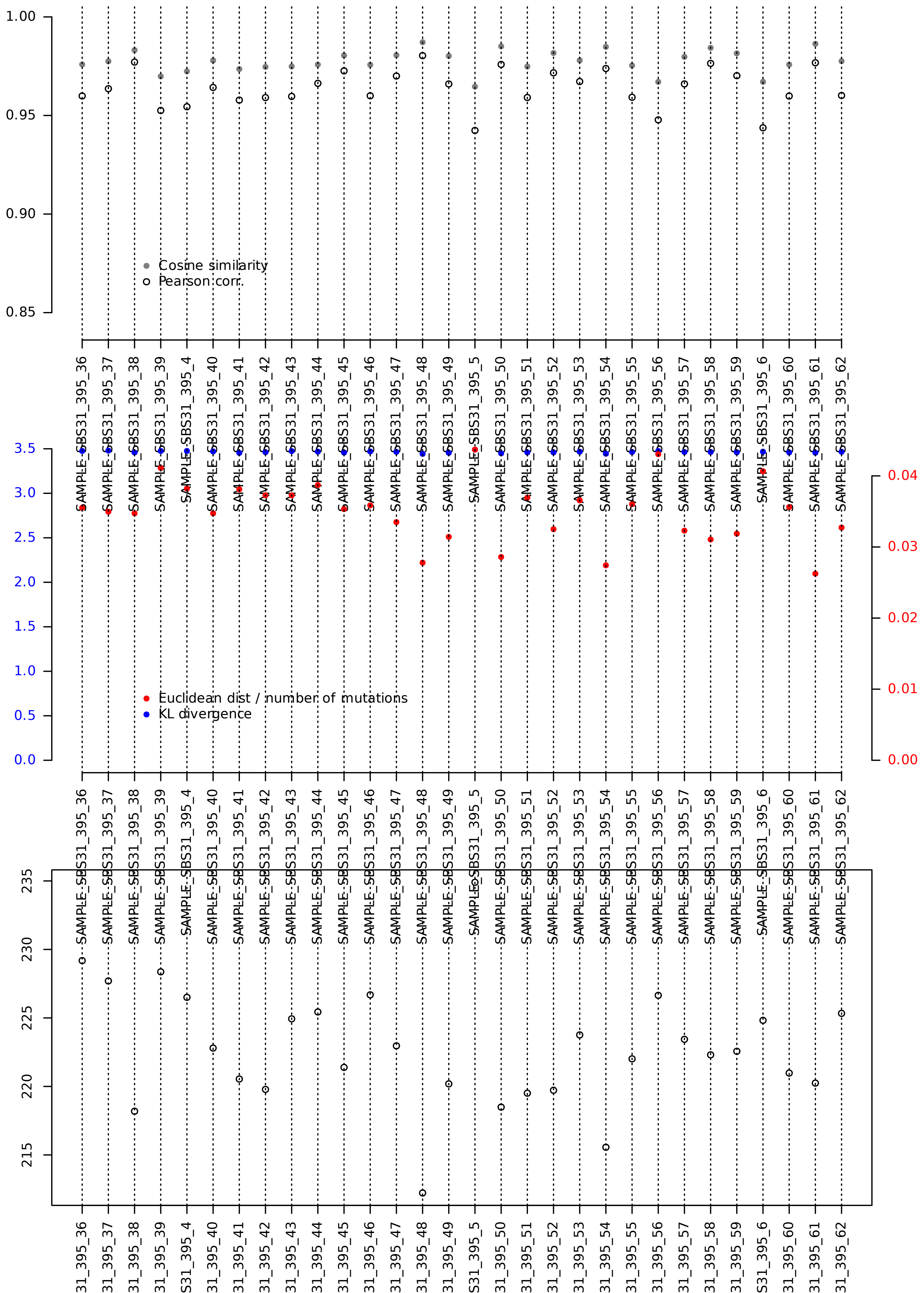
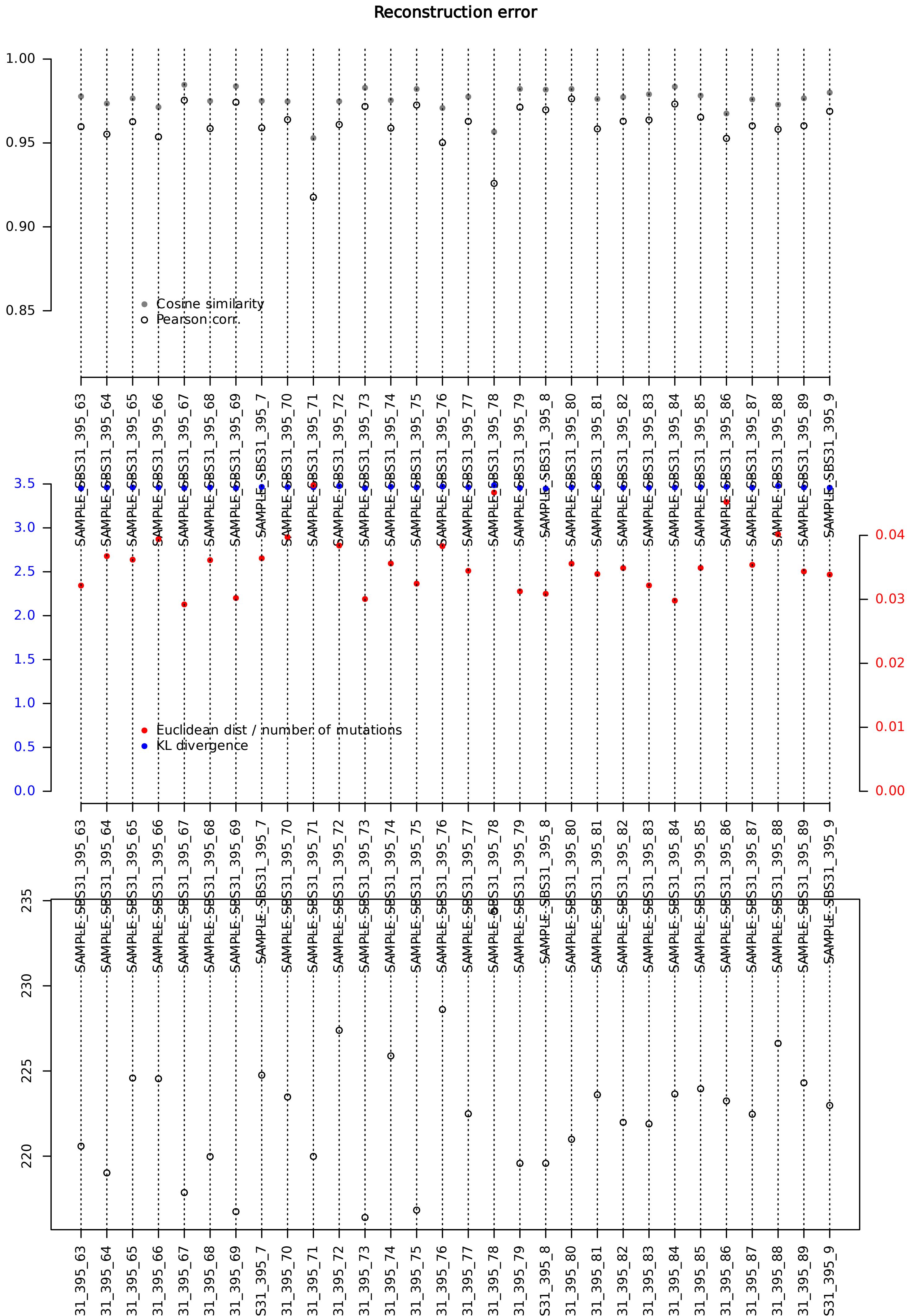
SAMPLE-SBS31_390_87
SAMPLE-SBS31_390_88
SAMPLE-SBS31_390_89
SAMPLE-SBS31_390_9
SAMPLE-SBS31_390_90
SAMPLE-SBS31_390_91
SAMPLE-SBS31_390_92
SAMPLE-SBS31_390_93
SAMPLE-SBS31_390_94
SAMPLE-SBS31_390_95
SAMPLE-SBS31_390_96
SAMPLE-SBS31_390_97
SAMPLE-SBS31_390_98
SAMPLE-SBS31_390_99
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
228
226
224
222
220
218


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
SAMPLE-SBS31_395_1
SAMPLE-SBS31_395_10
SAMPLE-SBS31_395_100
SAMPLE-SBS31_395_11
SAMPLE-SBS31_395_12
SAMPLE-SBS31_395_13
SAMPLE-SBS31_395_14
SAMPLE-SBS31_395_15
SAMPLE-SBS31_395_16
SAMPLE-SBS31_395_17
SAMPLE-SBS31_395_18
SAMPLE-SBS31_395_19
SAMPLE-SBS31_395_2
SAMPLE-SBS31_395_20
SAMPLE-SBS31_395_21
SAMPLE-SBS31_395_22
SAMPLE-SBS31_395_23
SAMPLE-SBS31_395_24
SAMPLE-SBS31_395_25
SAMPLE-SBS31_395_26
SAMPLE-SBS31_395_27
SAMPLE-SBS31_395_28
SAMPLE-SBS31_395_29
SAMPLE-SBS31_395_3
SAMPLE-SBS31_395_30
SAMPLE-SBS31_395_31
SAMPLE-SBS31_395_32
SAMPLE-SBS31_395_33
SAMPLE-SBS31_395_34
SAMPLE-SBS31_395_35
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
230
225
220
215
210

Reconstruction error




Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
SAMPLE-SBS31_395_63
SAMPLE-SBS31_395_64
SAMPLE-SBS31_395_65
SAMPLE-SBS31_395_66
SAMPLE-SBS31_395_67
SAMPLE-SBS31_395_68
SAMPLE-SBS31_395_69
SAMPLE-SBS31_395_7
SAMPLE-SBS31_395_70
SAMPLE-SBS31_395_71
SAMPLE-SBS31_395_72
SAMPLE-SBS31_395_73
SAMPLE-SBS31_395_74
SAMPLE-SBS31_395_75
SAMPLE-SBS31_395_76
SAMPLE-SBS31_395_77
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SAMPLE-SBS31_395_79
SAMPLE-SBS31_395_8
SAMPLE-SBS31_395_80
SAMPLE-SBS31_395_81
SAMPLE-SBS31_395_82
SAMPLE-SBS31_395_83
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SAMPLE-SBS31_395_89
SAMPLE-SBS31_395_9
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
220
31_395_63
31_395_64
31_395_65
31_395_66
31_395_67
31_395_68
31_395_69
S31_395_7
31_395_70
31_395_71
31_395_72
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31_395_75
31_395_76
31_395_77
31_395_78
31_395_79
S31_395_8
31_395_80
31_395_81
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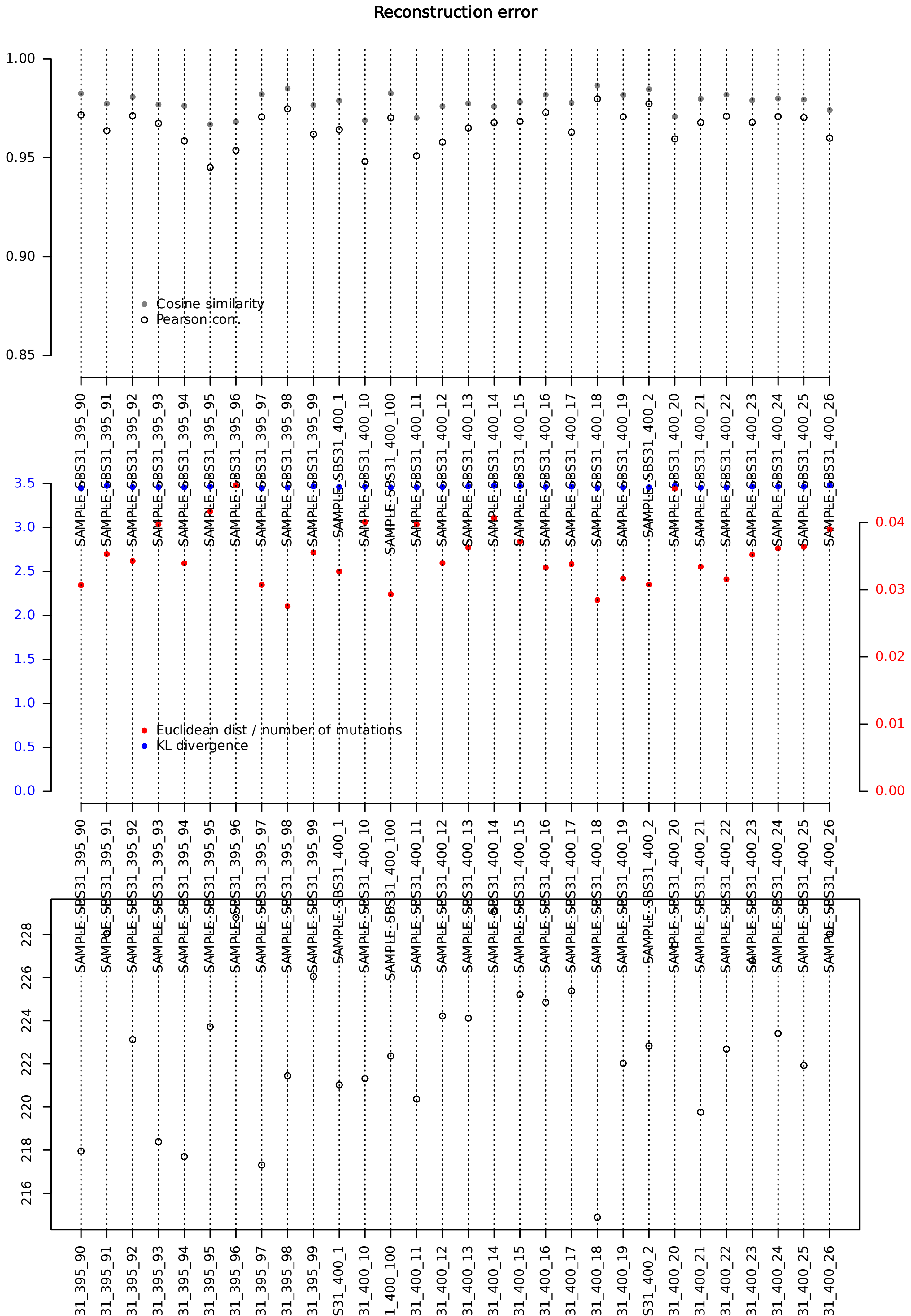
S31_395_9


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
228
226
224
222
220
218
216
SAMPLE-SBS31_395_90
SAMPLE-SBS31_395_91
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SAMPLE-SBS31_395_94
SAMPLE-SBS31_395_95
SAMPLE-SBS31_395_96
SAMPLE-SBS31_395_97
SAMPLE-SBS31_395_98
SAMPLE-SBS31_395_99
SAMPLE-SBS31_400_1
SAMPLE-SBS31_400_10
SAMPLE-SBS31_400_100
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SAMPLE-SBS31_400_16
SAMPLE-SBS31_400_17
SAMPLE-SBS31_400_18
SAMPLE-SBS31_400_19
SAMPLE-SBS31_400_2
SAMPLE-SBS31_400_20
SAMPLE-SBS31_400_21
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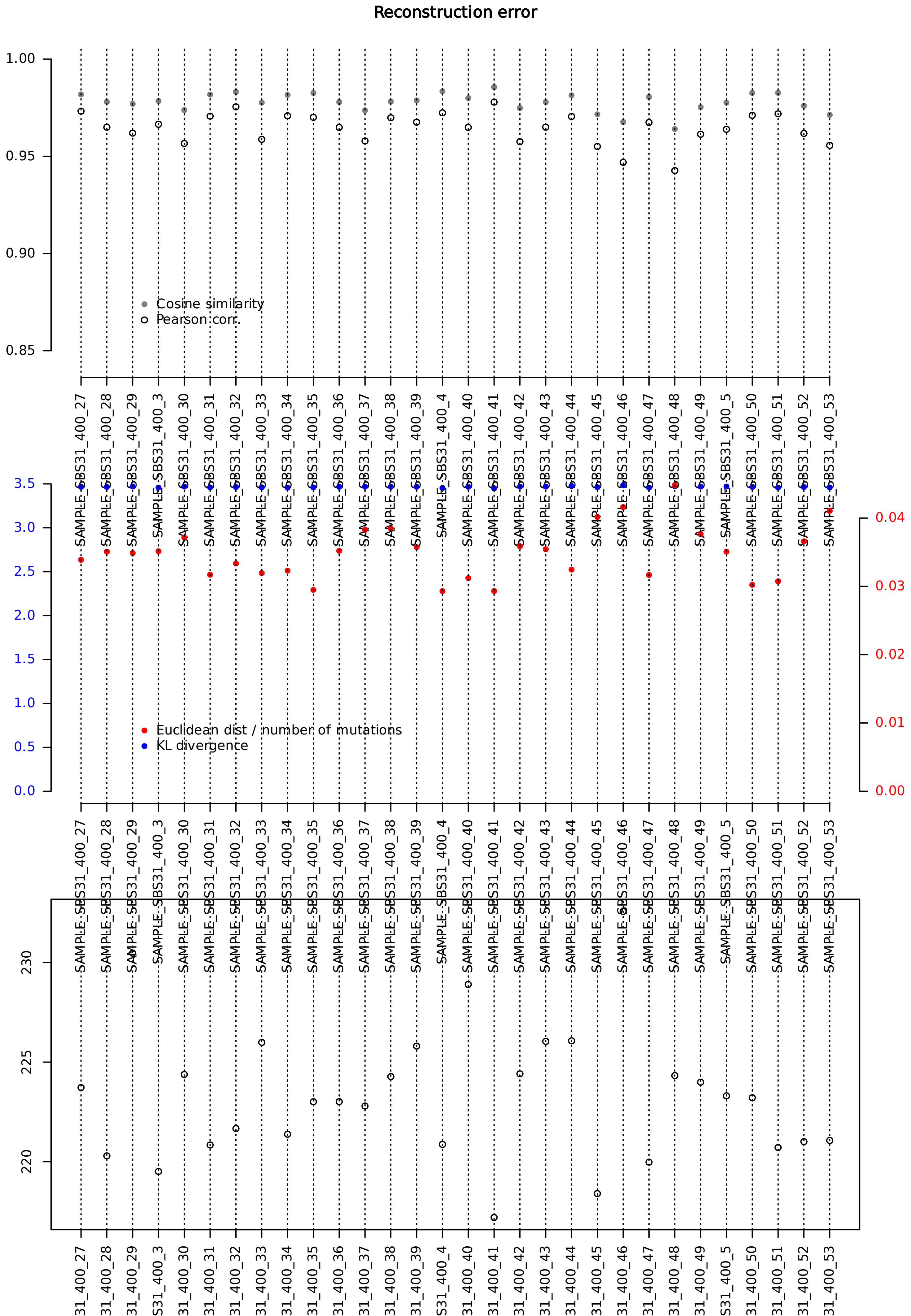
SAMPLE-SBS31_400_25
SAMPLE-SBS31_400_26


Reconstruction error
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0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
230
225
220
SAMPLE-SBS31_400_27
SAMPLE-SBS31_400_28
SAMPLE-SBS31_400_29
SAMPLE-SBS31_400_3
SAMPLE-SBS31_400_30
SAMPLE-SBS31_400_31
SAMPLE-SBS31_400_32
SAMPLE-SBS31_400_33
SAMPLE-SBS31_400_34
SAMPLE-SBS31_400_35
SAMPLE-SBS31_400_36
SAMPLE-SBS31_400_37
SAMPLE-SBS31_400_38
SAMPLE-SBS31_400_39
SAMPLE-SBS31_400_4
SAMPLE-SBS31_400_40
SAMPLE-SBS31_400_41
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SAMPLE-SBS31_400_43
SAMPLE-SBS31_400_44
SAMPLE-SBS31_400_45
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SAMPLE-SBS31_400_52
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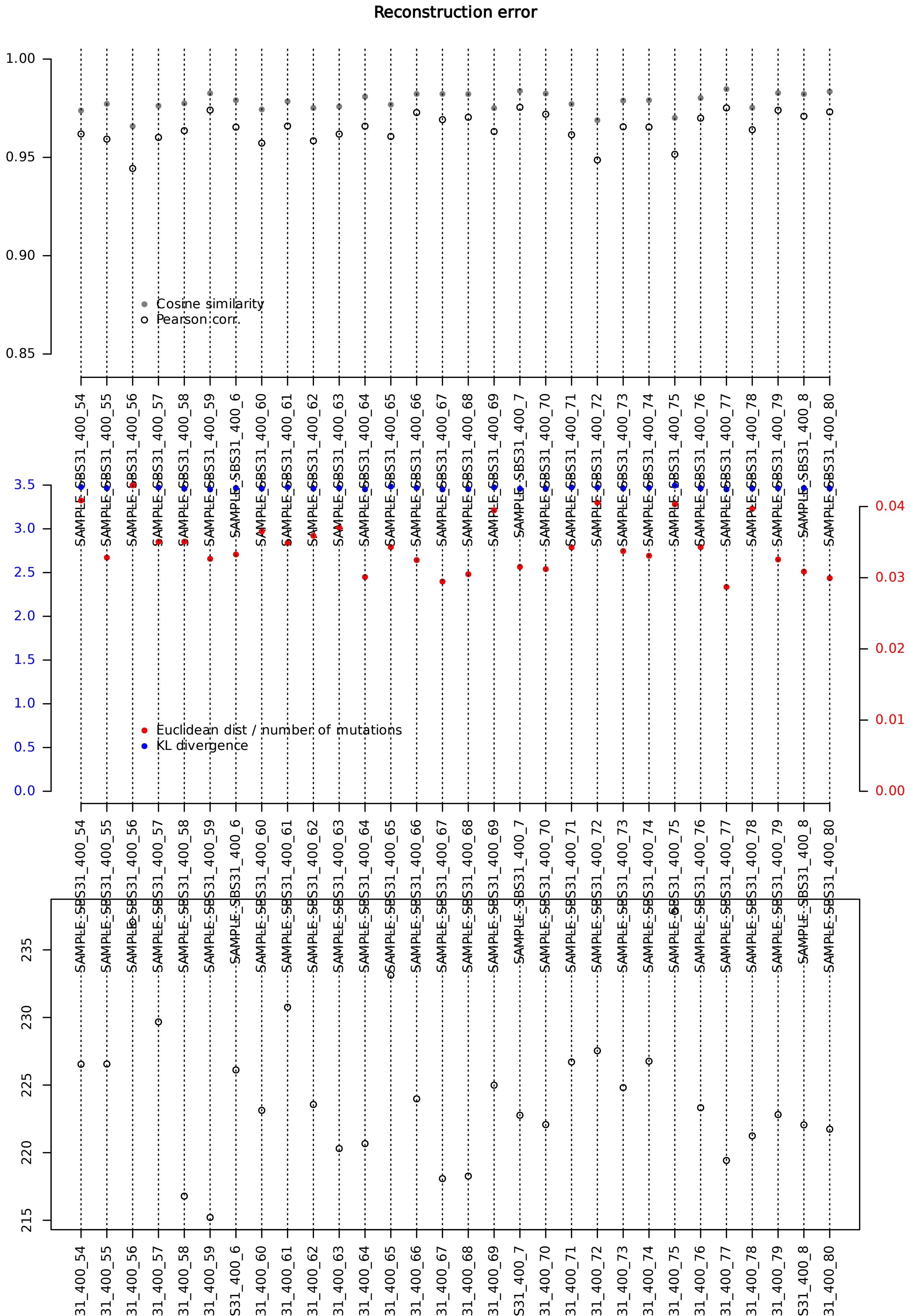
Reconstruction error
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0.95
0.90
0.85
Cosine similarity
Pearson corr.
SAMPLE_SBS31_400_54
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SAMPLE_SBS31_400_56
SAMPLE_SBS31_400_57
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SAMPLE_SBS31_400_59
SAMPLE_SBS31_400_6
SAMPLE_SBS31_400_60
SAMPLE_SBS31_400_61
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SAMPLE_SBS31_400_65
SAMPLE_SBS31_400_66
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SAMPLE_SBS31_400_7
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SAMPLE_SBS31_400_79
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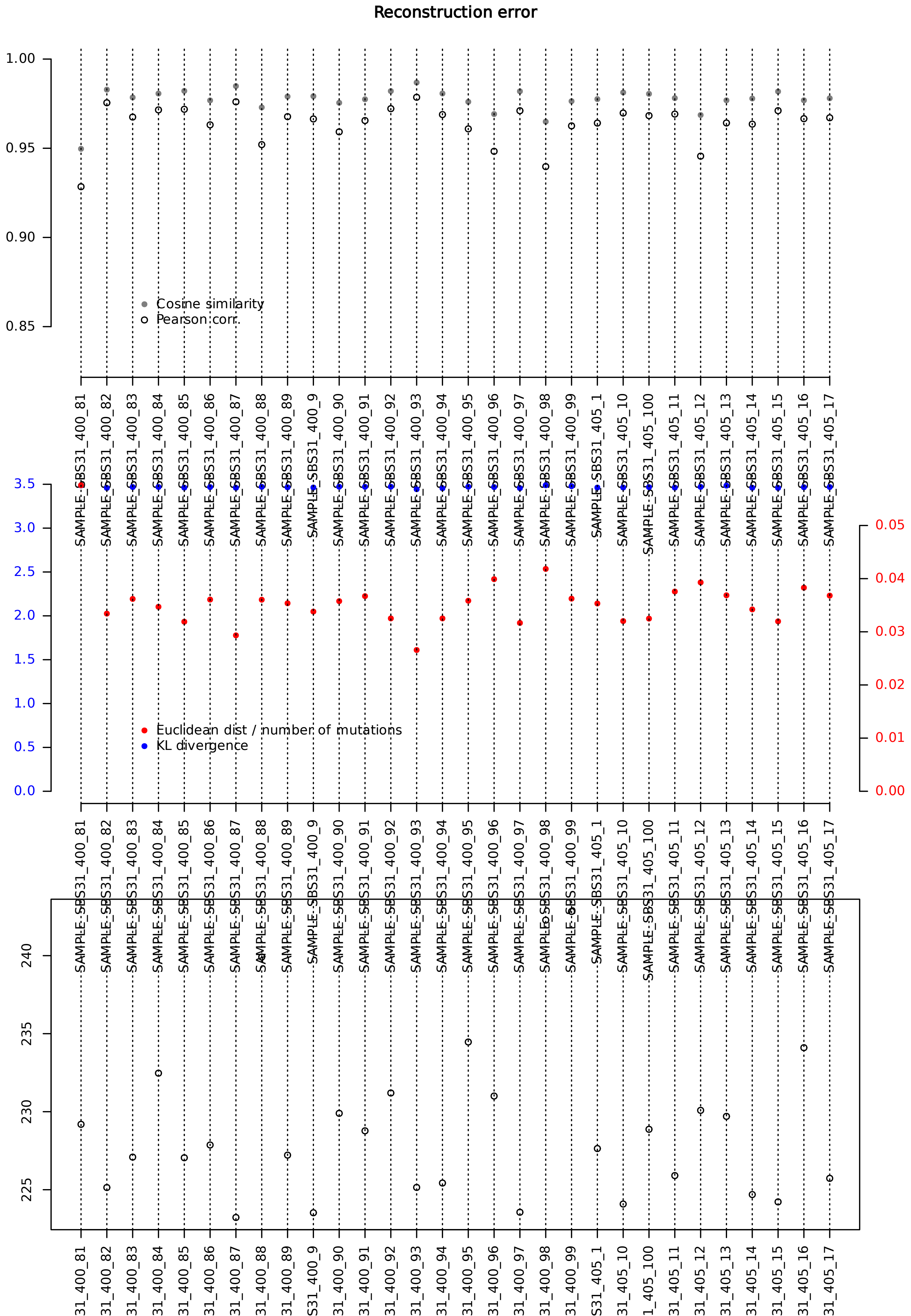
SAMPLE_SBS31_400_80
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
220
215


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.05
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
240
235
230
225
SAMPLE-SBS31_400_81
SAMPLE-SBS31_400_82
SAMPLE-SBS31_400_83
SAMPLE-SBS31_400_84
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SAMPLE-SBS31_400_91
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SAMPLE-SBS31_400_99
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SAMPLE-SBS31_405_10
SAMPLE-SBS31_405_100
SAMPLE-SBS31_405_11
SAMPLE-SBS31_405_12
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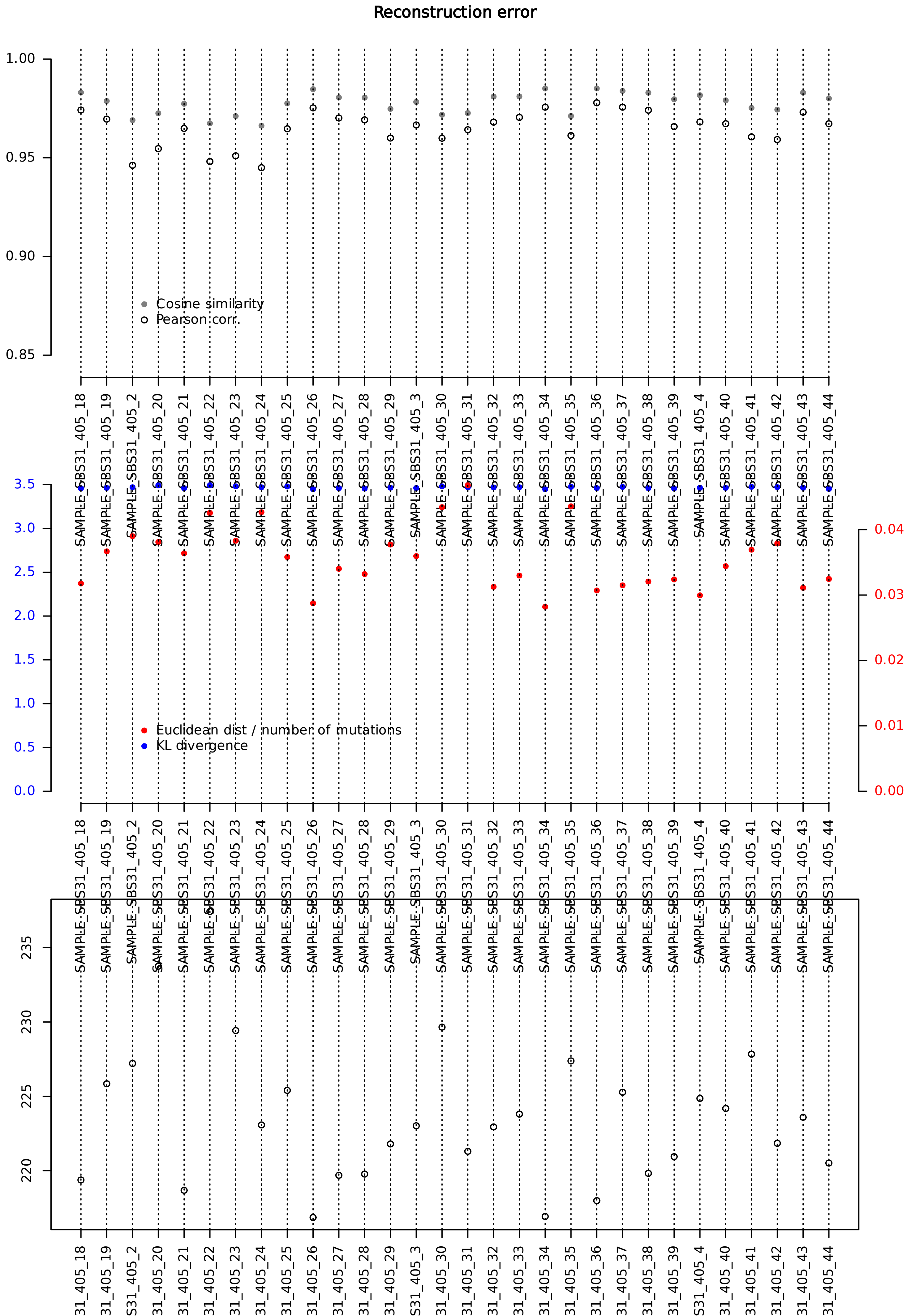
SAMPLE-SBS31_405_15
SAMPLE-SBS31_405_16
SAMPLE-SBS31_405_17


Reconstruction error
1.00
0.95
0.90
0.85
● Cosine similarity
○ Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
● Euclidean dist / number of mutations
● KL divergence
235
230
225
220
SAMPLE-SBS31_405_18
SAMPLE-SBS31_405_19
SAMPLE-SBS31_405_2
SAMPLE-SBS31_405_20
SAMPLE-SBS31_405_21
SAMPLE-SBS31_405_22
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SAMPLE-SBS31_405_24
SAMPLE-SBS31_405_25
SAMPLE-SBS31_405_26
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SAMPLE-SBS31_405_29
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SAMPLE-SBS31_405_37
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SAMPLE-SBS31_405_39
SAMPLE-SBS31_405_4
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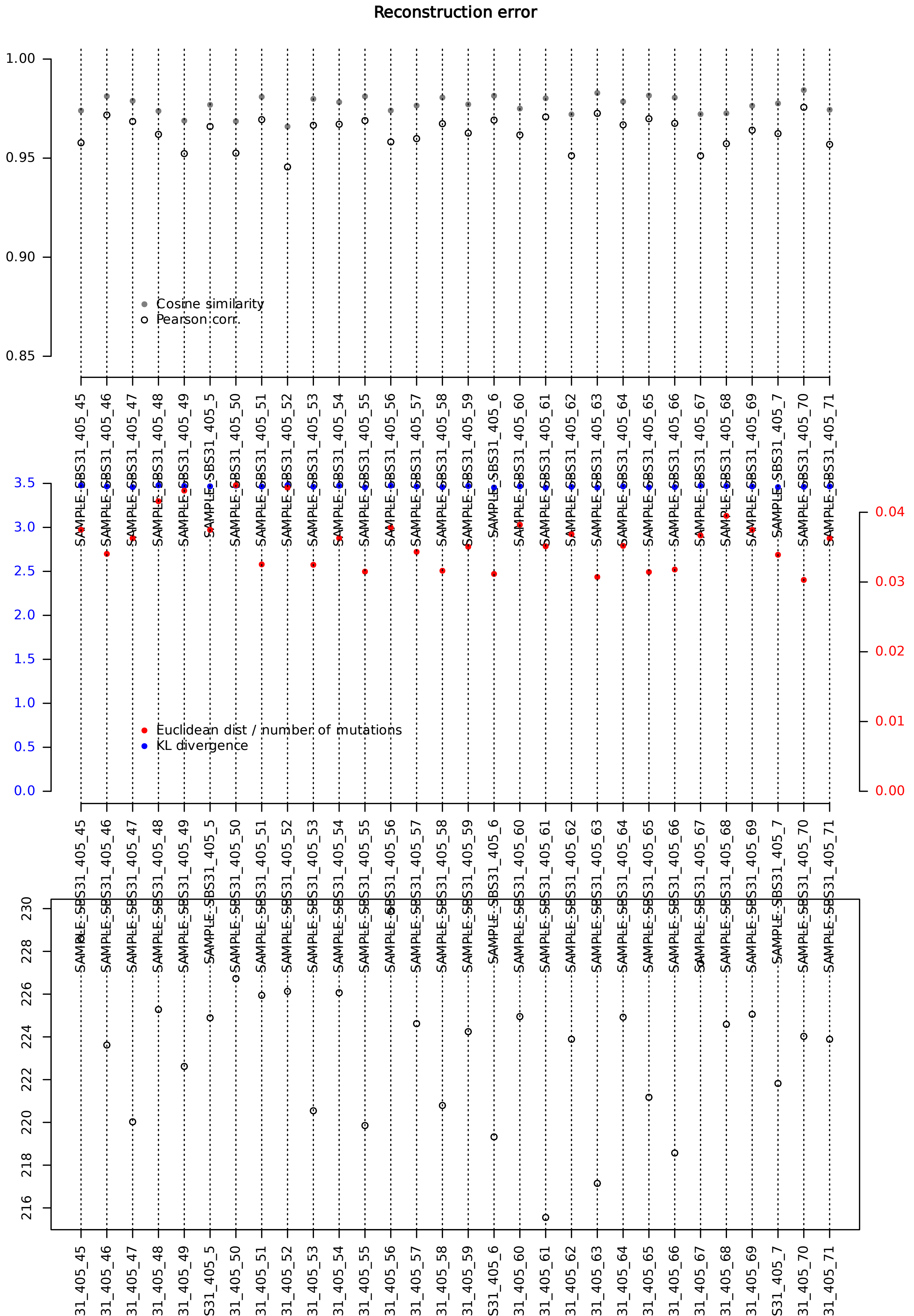
SAMPLE-SBS31_405_41
SAMPLE-SBS31_405_42
SAMPLE-SBS31_405_43
SAMPLE-SBS31_405_44


Reconstruction error
1.00
0.95
0.90
0.85
● Cosine similarity
○ Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
● Euclidean dist / number of mutations
● KL divergence
230
228
226
224
222
220
218
216
SAMPLE-SBS31_405_45
SAMPLE-SBS31_405_46
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SAMPLE-SBS31_405_48
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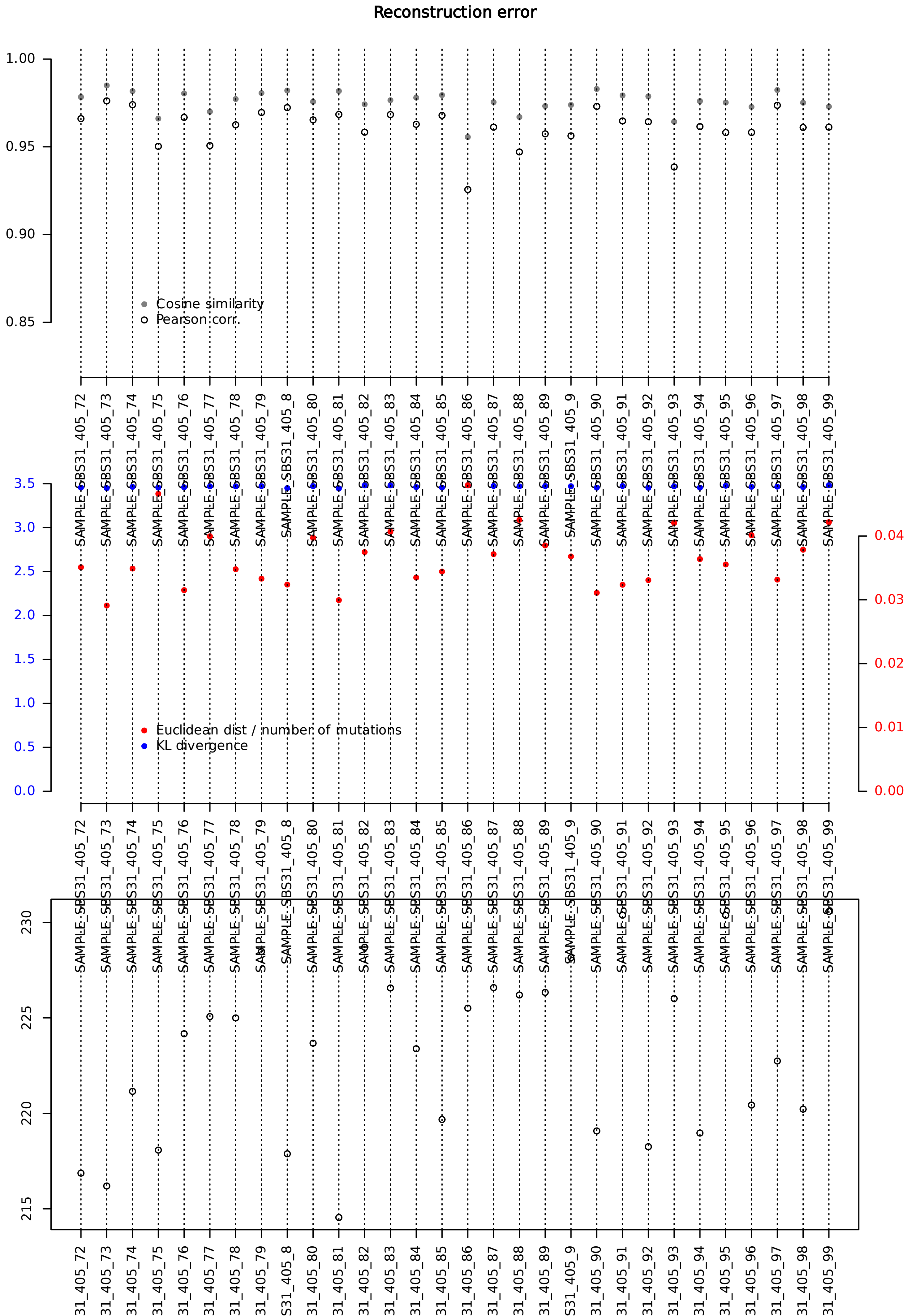
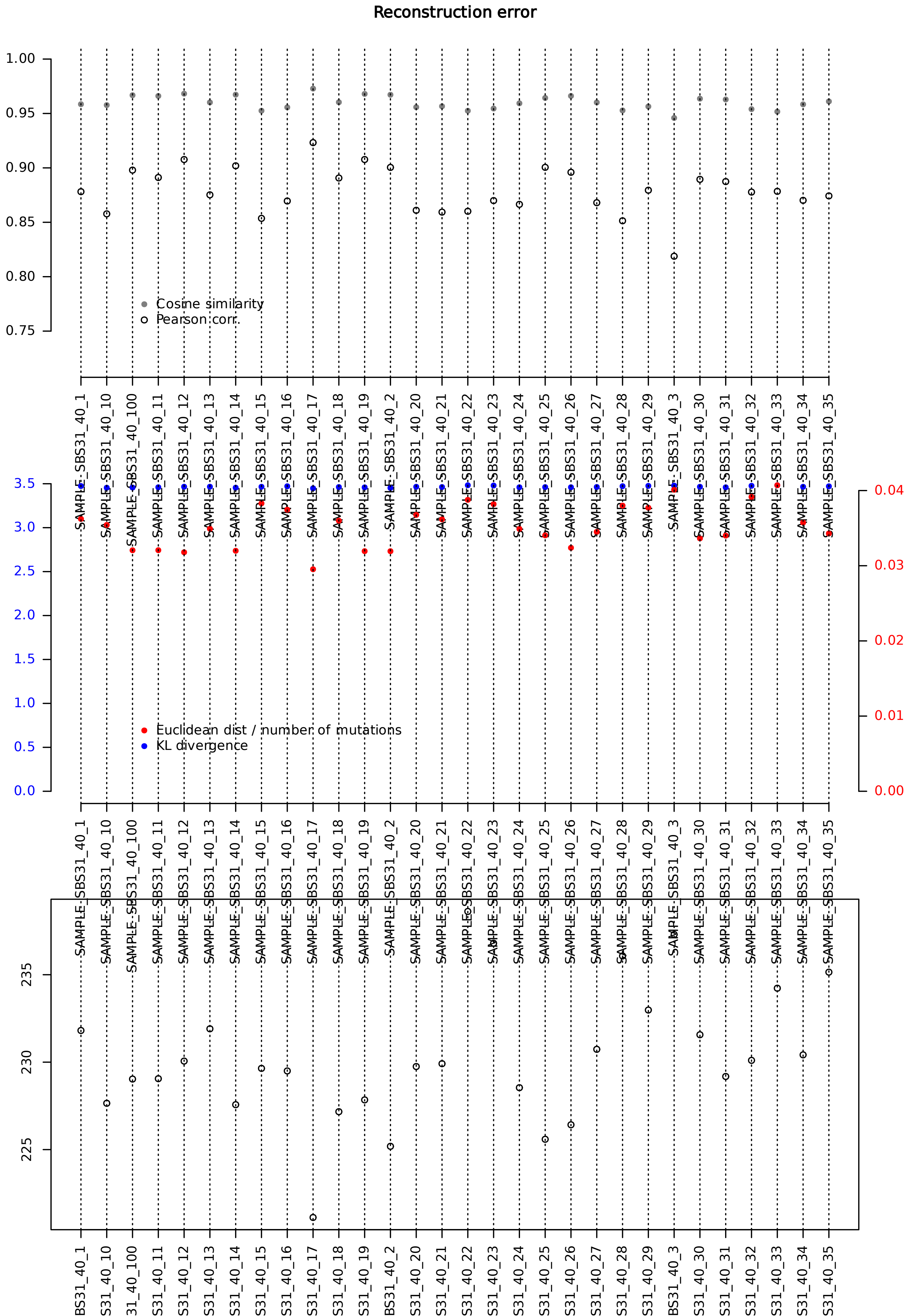
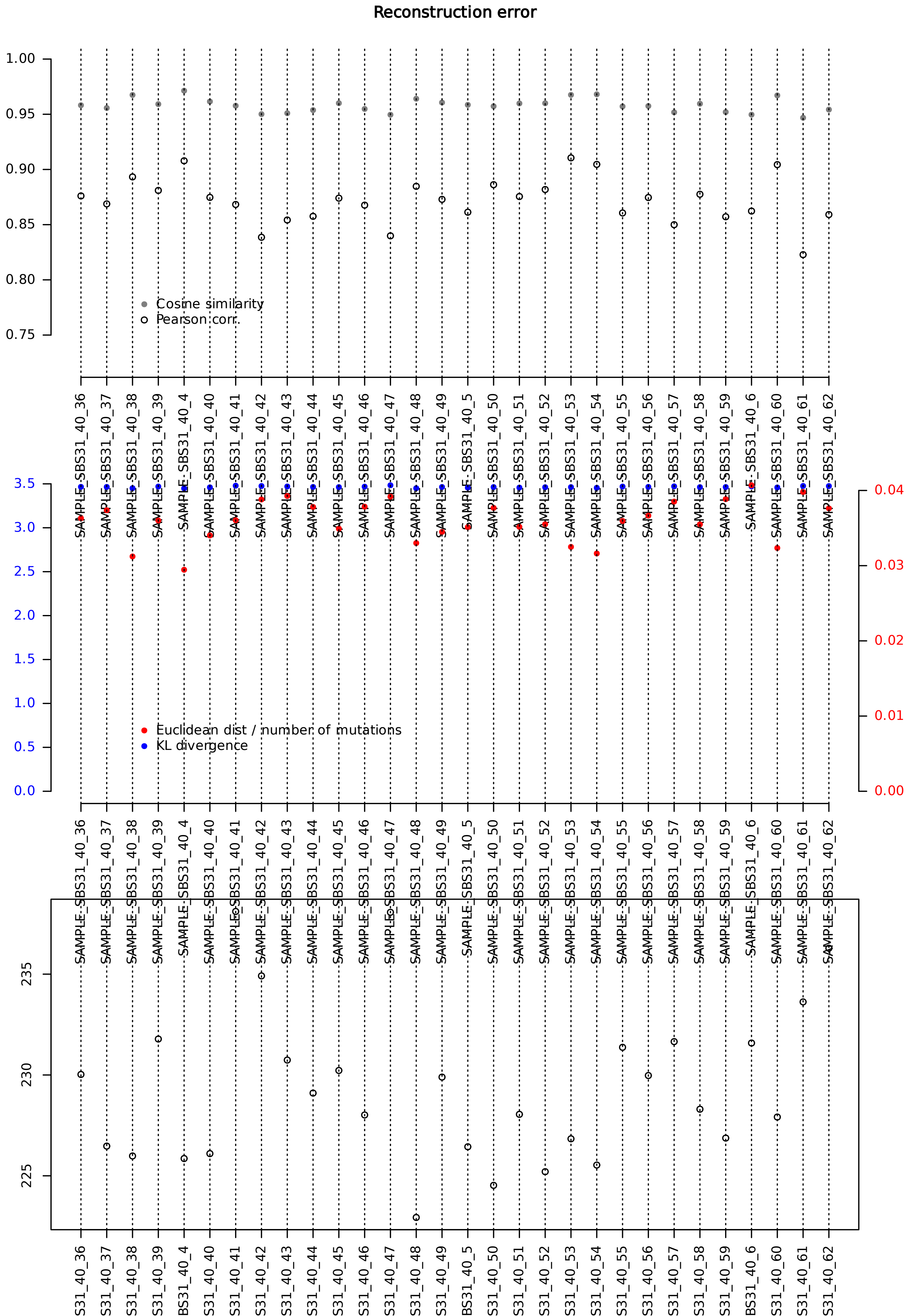
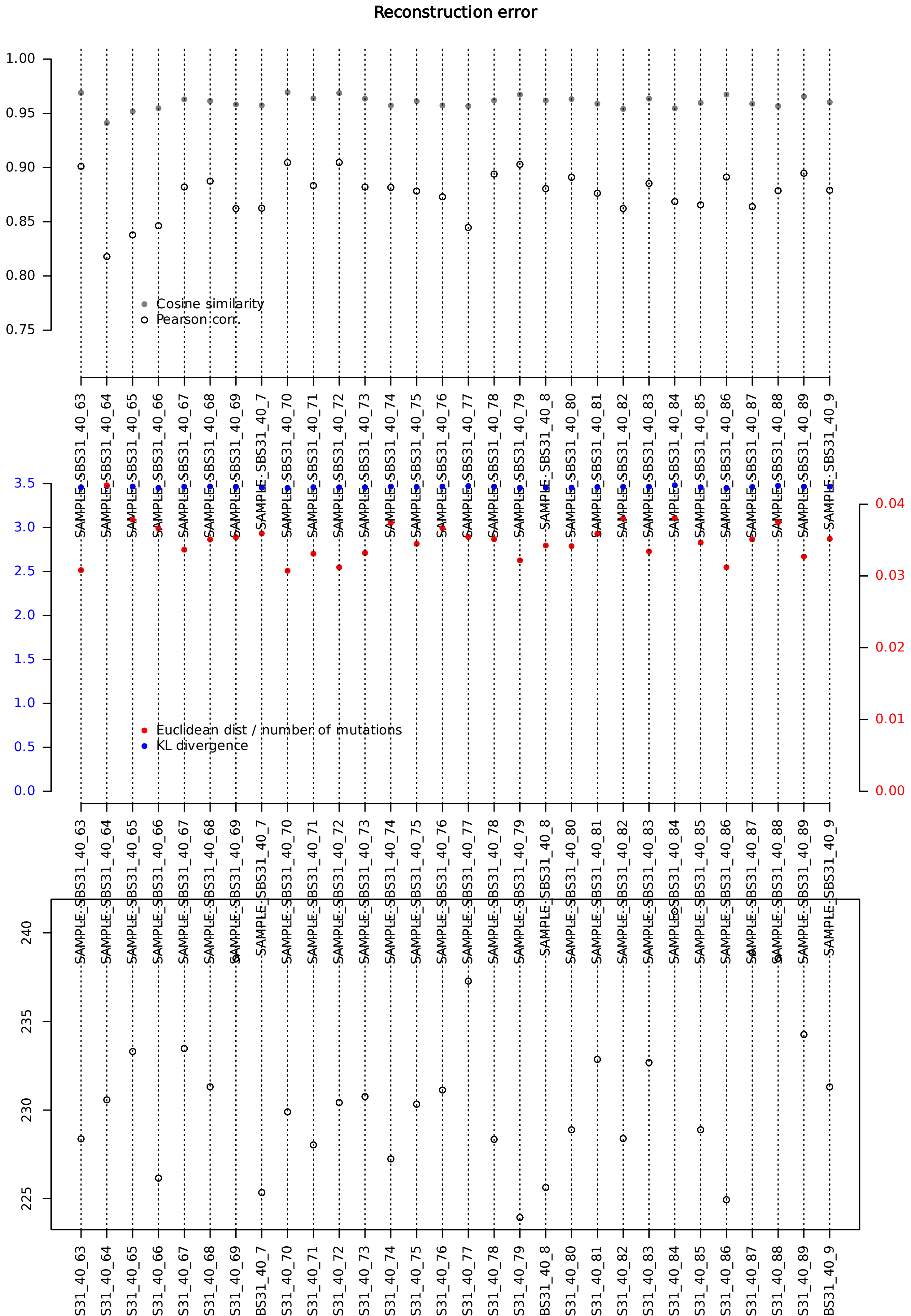
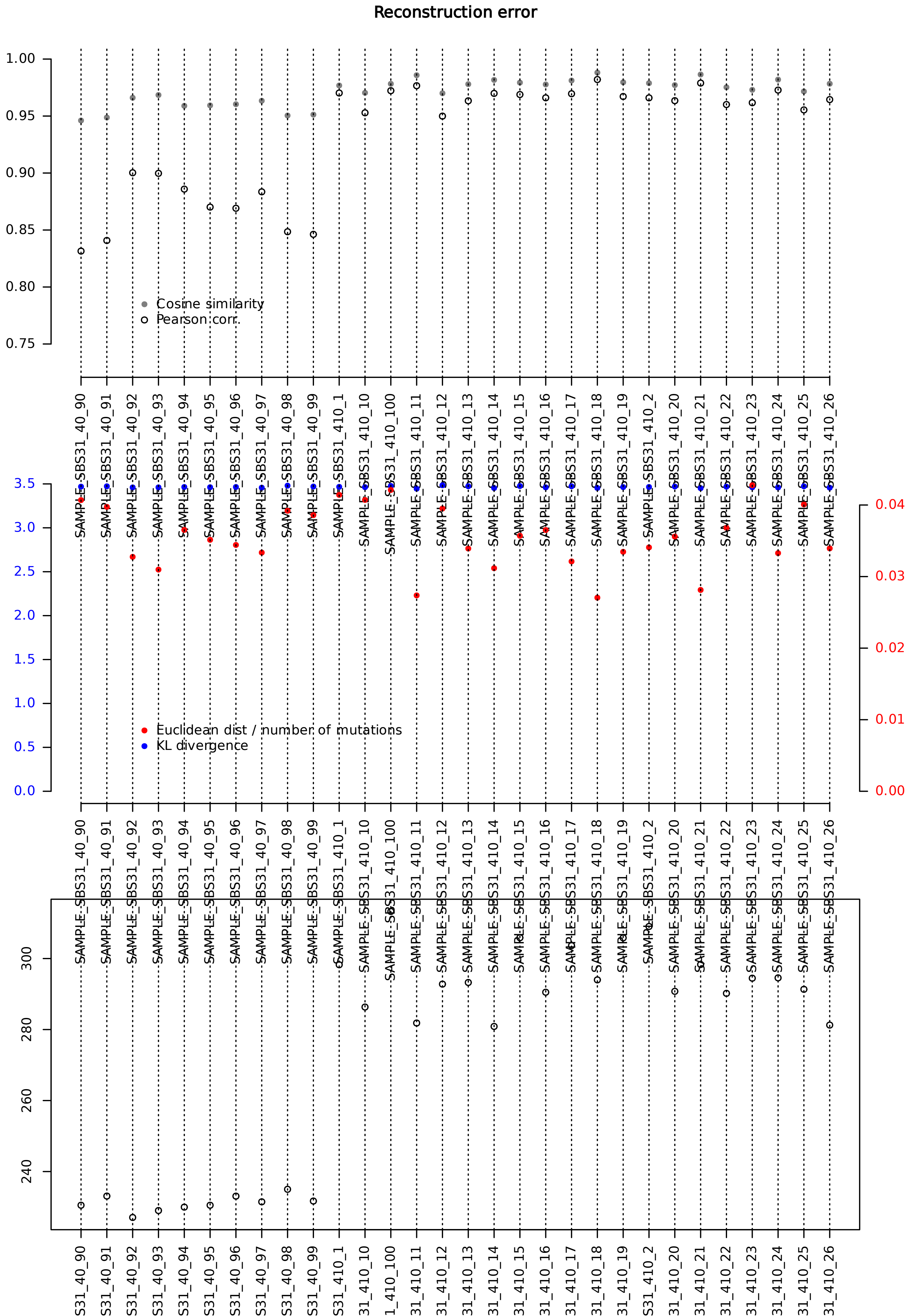
SAMPLE-SBS31_405_57
SAMPLE-SBS31_405_58
SAMPLE-SBS31_405_59
SAMPLE-SBS31_405_6
SAMPLE-SBS31_405_60
SAMPLE-SBS31_405_61
SAMPLE-SBS31_405_62
SAMPLE-SBS31_405_63
SAMPLE-SBS31_405_64
SAMPLE-SBS31_405_65
SAMPLE-SBS31_405_66
SAMPLE-SBS31_405_67
SAMPLE-SBS31_405_68
SAMPLE-SBS31_405_69
SAMPLE-SBS31_405_7
SAMPLE-SBS31_405_70
SAMPLE-SBS31_405_71

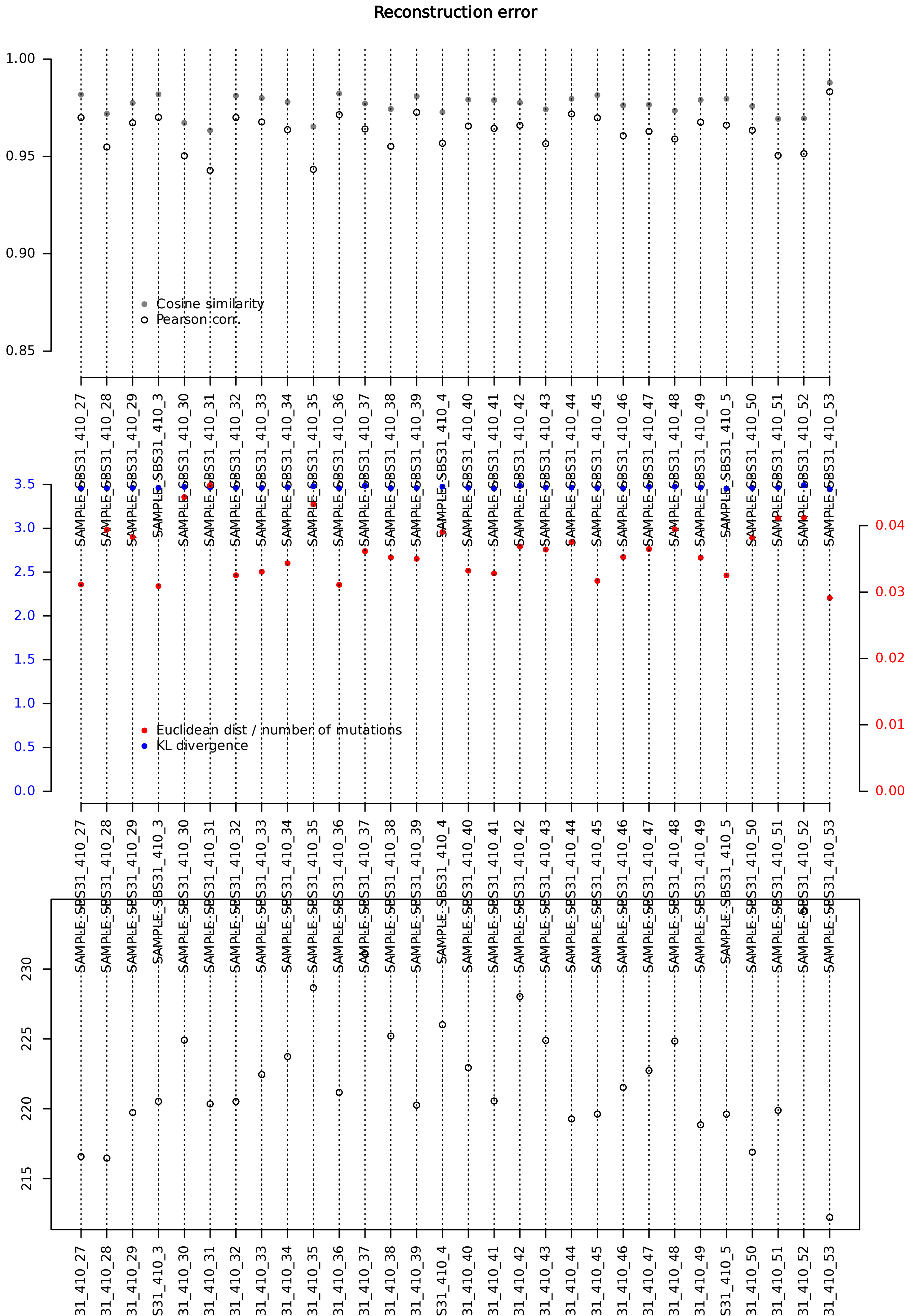

Reconstruction error

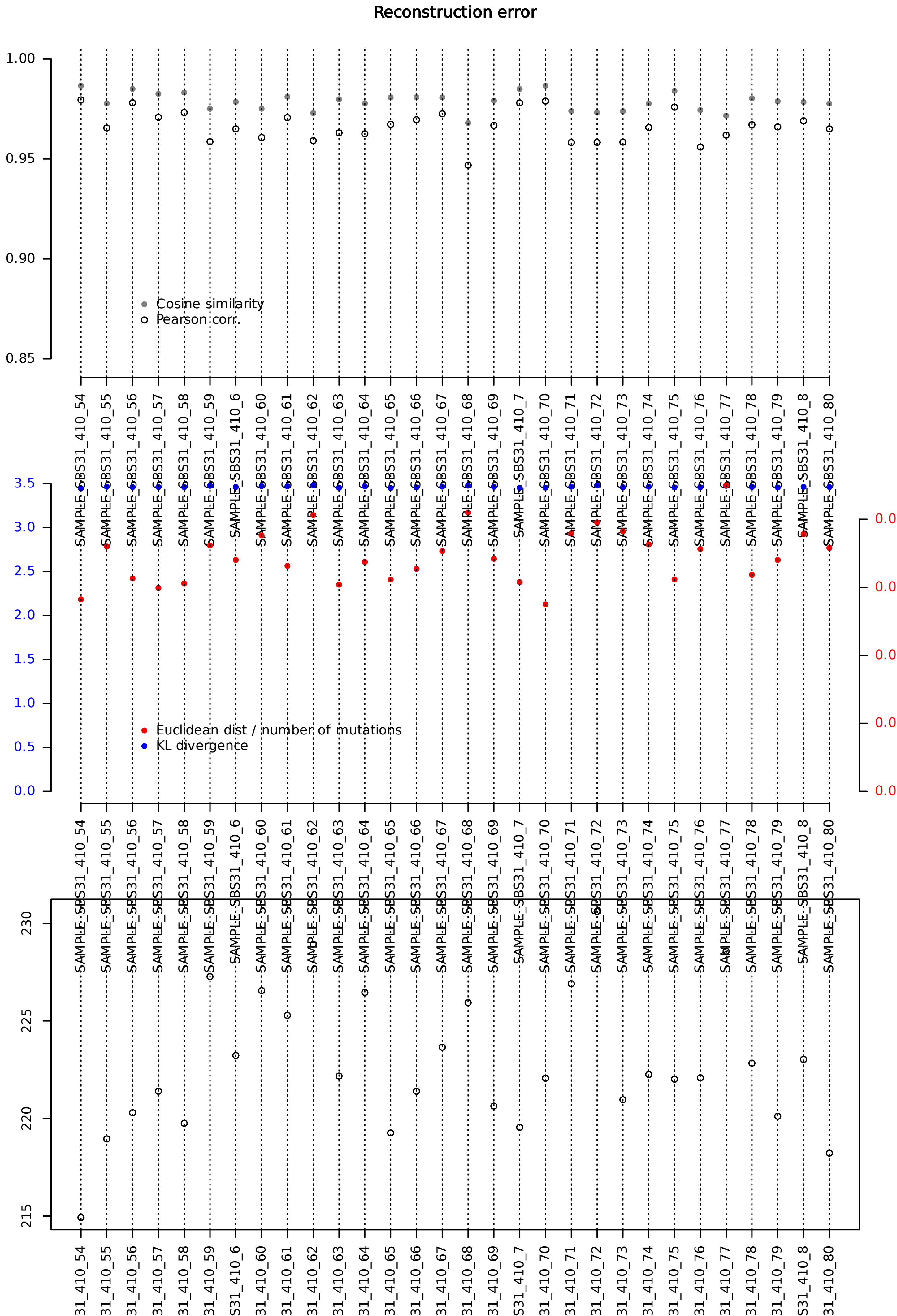

Reconstruction error
1.00
0.95
0.90
0.85
0.80
0.75
Cosine similarity
Pearson corr.
SAMPLE-SBS31_40_1
SAMPLE-SBS31_40_10
SAMPLE-SBS31_40_100
SAMPLE-SBS31_40_11
SAMPLE-SBS31_40_12
SAMPLE-SBS31_40_13
SAMPLE-SBS31_40_14
SAMPLE-SBS31_40_15
SAMPLE-SBS31_40_16
SAMPLE-SBS31_40_17
SAMPLE-SBS31_40_18
SAMPLE-SBS31_40_19
SAMPLE-SBS31_40_2
SAMPLE-SBS31_40_20
SAMPLE-SBS31_40_21
SAMPLE-SBS31_40_22
SAMPLE-SBS31_40_23
SAMPLE-SBS31_40_24
SAMPLE-SBS31_40_25
SAMPLE-SBS31_40_26
SAMPLE-SBS31_40_27
SAMPLE-SBS31_40_28
SAMPLE-SBS31_40_29
SAMPLE-SBS31_40_3
SAMPLE-SBS31_40_30
SAMPLE-SBS31_40_31
SAMPLE-SBS31_40_32
SAMPLE-SBS31_40_33
SAMPLE-SBS31_40_34
SAMPLE-SBS31_40_35
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225

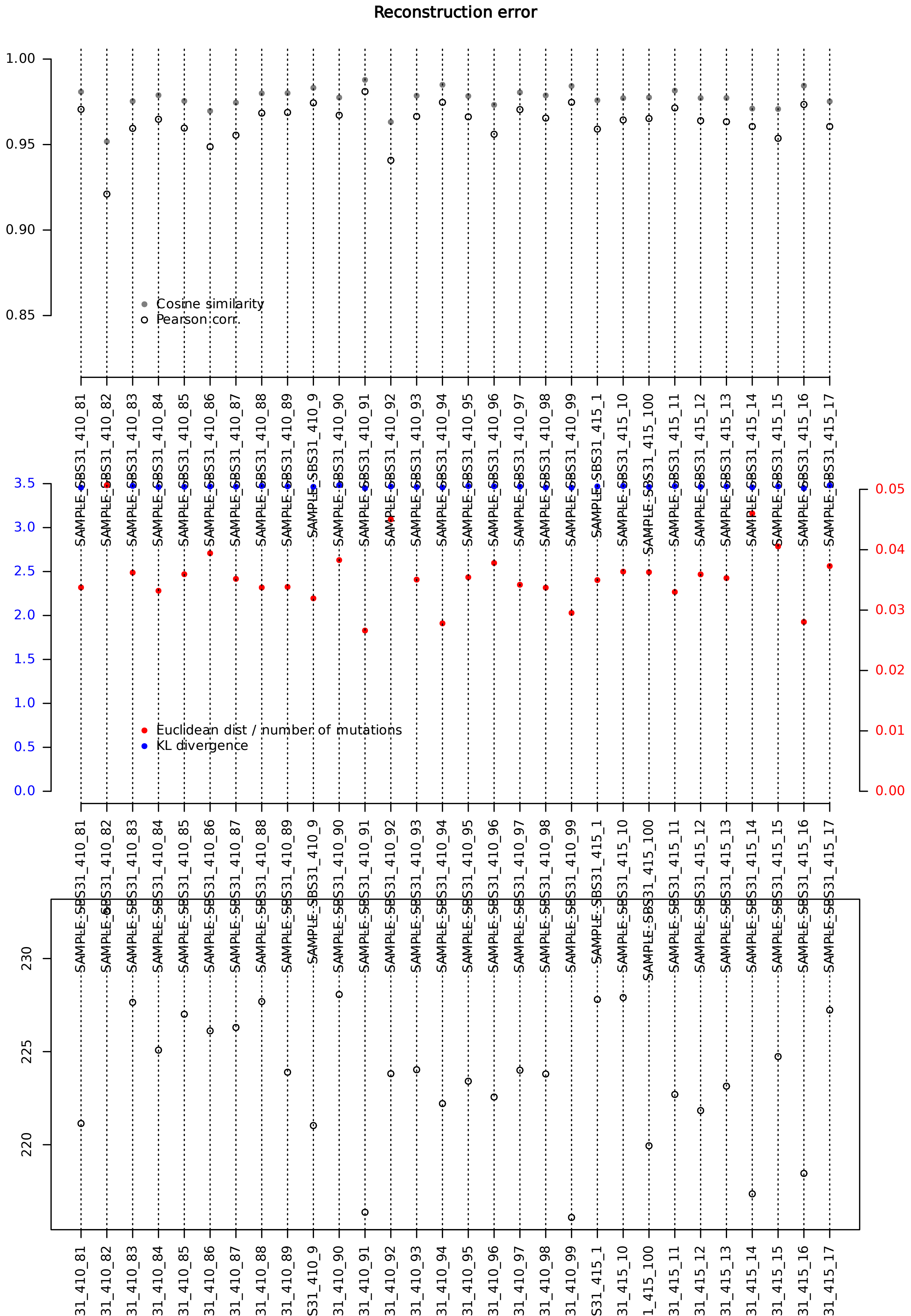

Reconstruction error
1.00
0.95
0.90
0.85
0.80
0.75
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
SAMPLE-SBS31_40_36
SAMPLE-SBS31_40_37
SAMPLE-SBS31_40_38
SAMPLE-SBS31_40_39
SAMPLE-SBS31_40_4
SAMPLE-SBS31_40_40
SAMPLE-SBS31_40_41
SAMPLE-SBS31_40_42
SAMPLE-SBS31_40_43
SAMPLE-SBS31_40_44
SAMPLE-SBS31_40_45
SAMPLE-SBS31_40_46
SAMPLE-SBS31_40_47
SAMPLE-SBS31_40_48
SAMPLE-SBS31_40_49
SAMPLE-SBS31_40_5
SAMPLE-SBS31_40_50
SAMPLE-SBS31_40_51
SAMPLE-SBS31_40_52
SAMPLE-SBS31_40_53
SAMPLE-SBS31_40_54
SAMPLE-SBS31_40_55
SAMPLE-SBS31_40_56
SAMPLE-SBS31_40_57
SAMPLE-SBS31_40_58
SAMPLE-SBS31_40_59
SAMPLE-SBS31_40_6
SAMPLE-SBS31_40_60
SAMPLE-SBS31_40_61
SAMPLE-SBS31_40_62


Reconstruction error
1.00
0.95
0.90
0.85
0.80
0.75
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
240
235
230
225
SAMPLE-SBS31_40_63
SAMPLE-SBS31_40_64
SAMPLE-SBS31_40_65
SAMPLE-SBS31_40_66
SAMPLE-SBS31_40_67
SAMPLE-SBS31_40_68
SAMPLE-SBS31_40_69
SAMPLE-SBS31_40_7
SAMPLE-SBS31_40_70
SAMPLE-SBS31_40_71
SAMPLE-SBS31_40_72
SAMPLE-SBS31_40_73
SAMPLE-SBS31_40_74
SAMPLE-SBS31_40_75
SAMPLE-SBS31_40_76
SAMPLE-SBS31_40_77
SAMPLE-SBS31_40_78
SAMPLE-SBS31_40_79
SAMPLE-SBS31_40_8
SAMPLE-SBS31_40_80
SAMPLE-SBS31_40_81
SAMPLE-SBS31_40_82
SAMPLE-SBS31_40_83
SAMPLE-SBS31_40_84
SAMPLE-SBS31_40_85
SAMPLE-SBS31_40_86
SAMPLE-SBS31_40_87
SAMPLE-SBS31_40_88
SAMPLE-SBS31_40_89
SAMPLE-SBS31_40_9

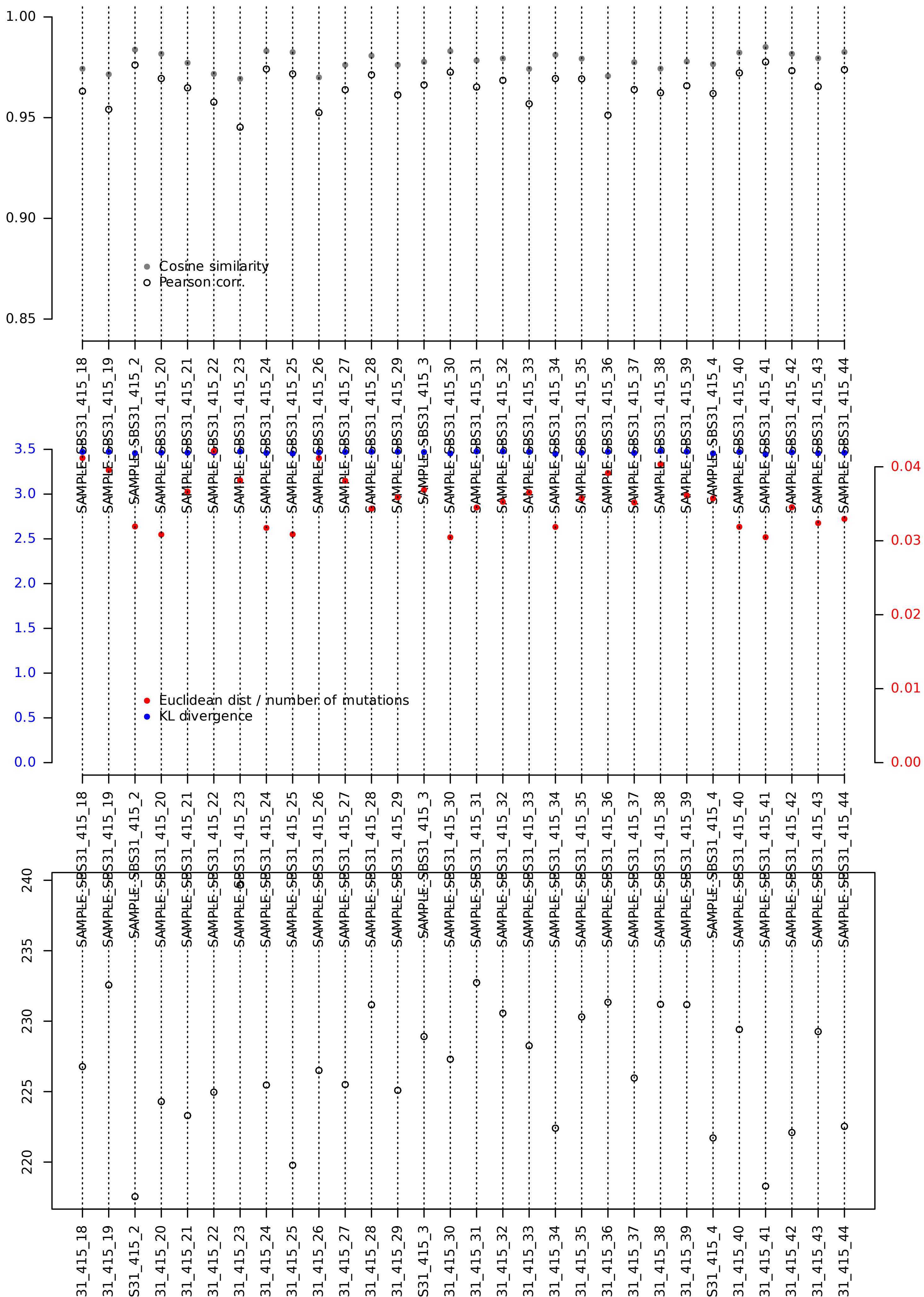

Reconstruction error
1.00
0.95
0.90
0.85
0.80
0.75
Cosine similarity
Pearson corr.
SAMPLE-SBS31_40_90
SAMPLE-SBS31_40_91
SAMPLE-SBS31_40_92
SAMPLE-SBS31_40_93
SAMPLE-SBS31_40_94
SAMPLE-SBS31_40_95
SAMPLE-SBS31_40_96
SAMPLE-SBS31_40_97
SAMPLE-SBS31_40_98
SAMPLE-SBS31_40_99
SAMPLE-SBS31_410_1
SAMPLE-SBS31_410_10
SAMPLE-SBS31_410_100
SAMPLE-SBS31_410_11
SAMPLE-SBS31_410_12
SAMPLE-SBS31_410_13
SAMPLE-SBS31_410_14
SAMPLE-SBS31_410_15
SAMPLE-SBS31_410_16
SAMPLE-SBS31_410_17
SAMPLE-SBS31_410_18
SAMPLE-SBS31_410_19
SAMPLE-SBS31_410_2
SAMPLE-SBS31_410_20
SAMPLE-SBS31_410_21
SAMPLE-SBS31_410_22
SAMPLE-SBS31_410_23
SAMPLE-SBS31_410_24
SAMPLE-SBS31_410_25
SAMPLE-SBS31_410_26
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
300
280
260
240

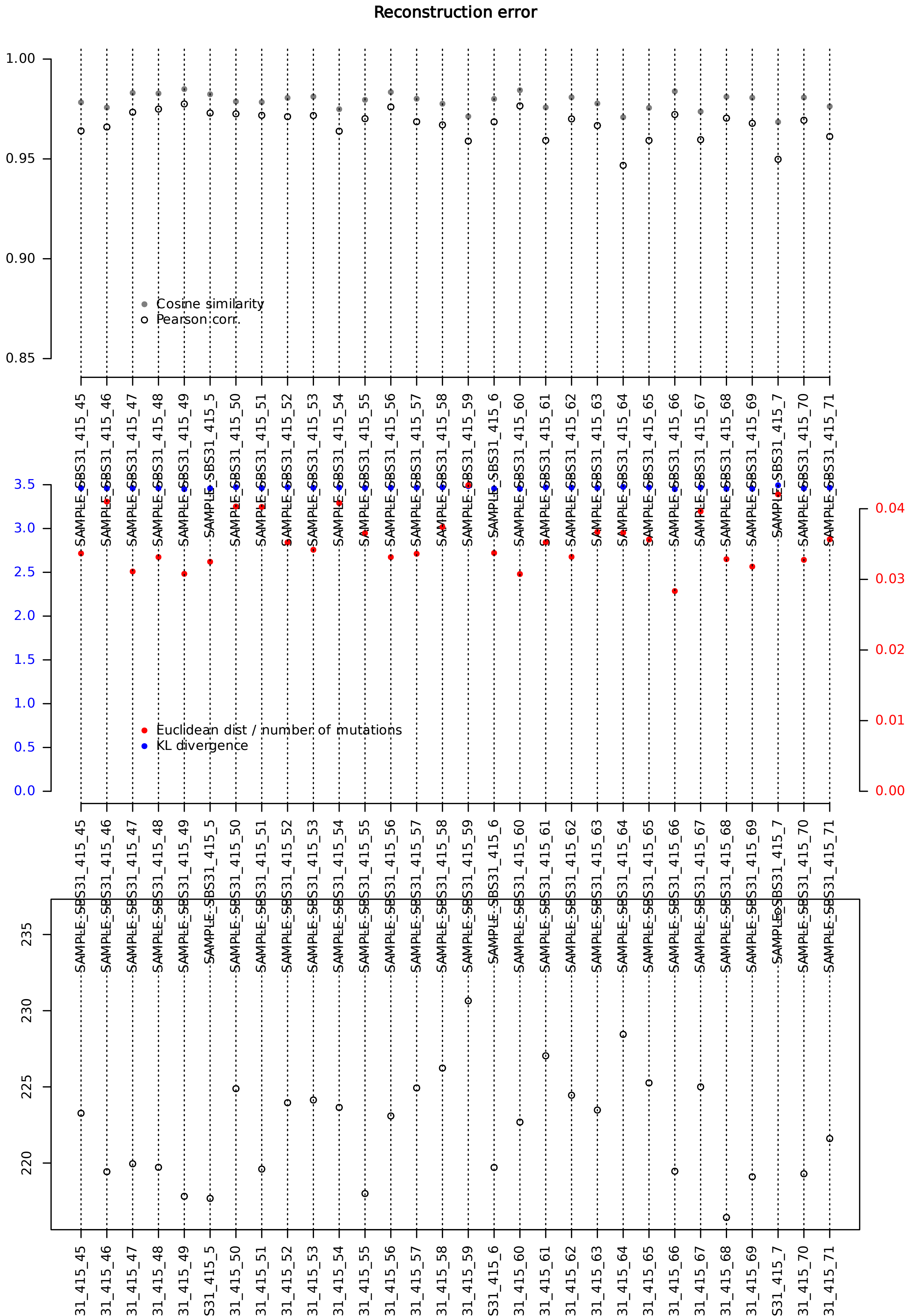

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
SAMPLE-SBS31_410_27
SAMPLE-SBS31_410_28
SAMPLE-SBS31_410_29
SAMPLE-SBS31_410_3
SAMPLE-SBS31_410_30
SAMPLE-SBS31_410_31
SAMPLE-SBS31_410_32
SAMPLE-SBS31_410_33
SAMPLE-SBS31_410_34
SAMPLE-SBS31_410_35
SAMPLE-SBS31_410_36
SAMPLE-SBS31_410_37
SAMPLE-SBS31_410_38
SAMPLE-SBS31_410_39
SAMPLE-SBS31_410_4
SAMPLE-SBS31_410_40
SAMPLE-SBS31_410_41
SAMPLE-SBS31_410_42
SAMPLE-SBS31_410_43
SAMPLE-SBS31_410_44
SAMPLE-SBS31_410_45
SAMPLE-SBS31_410_46
SAMPLE-SBS31_410_47
SAMPLE-SBS31_410_48
SAMPLE-SBS31_410_49
SAMPLE-SBS31_410_5
SAMPLE-SBS31_410_50
SAMPLE-SBS31_410_51
SAMPLE-SBS31_410_52
SAMPLE-SBS31_410_53
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
230
225
220
215

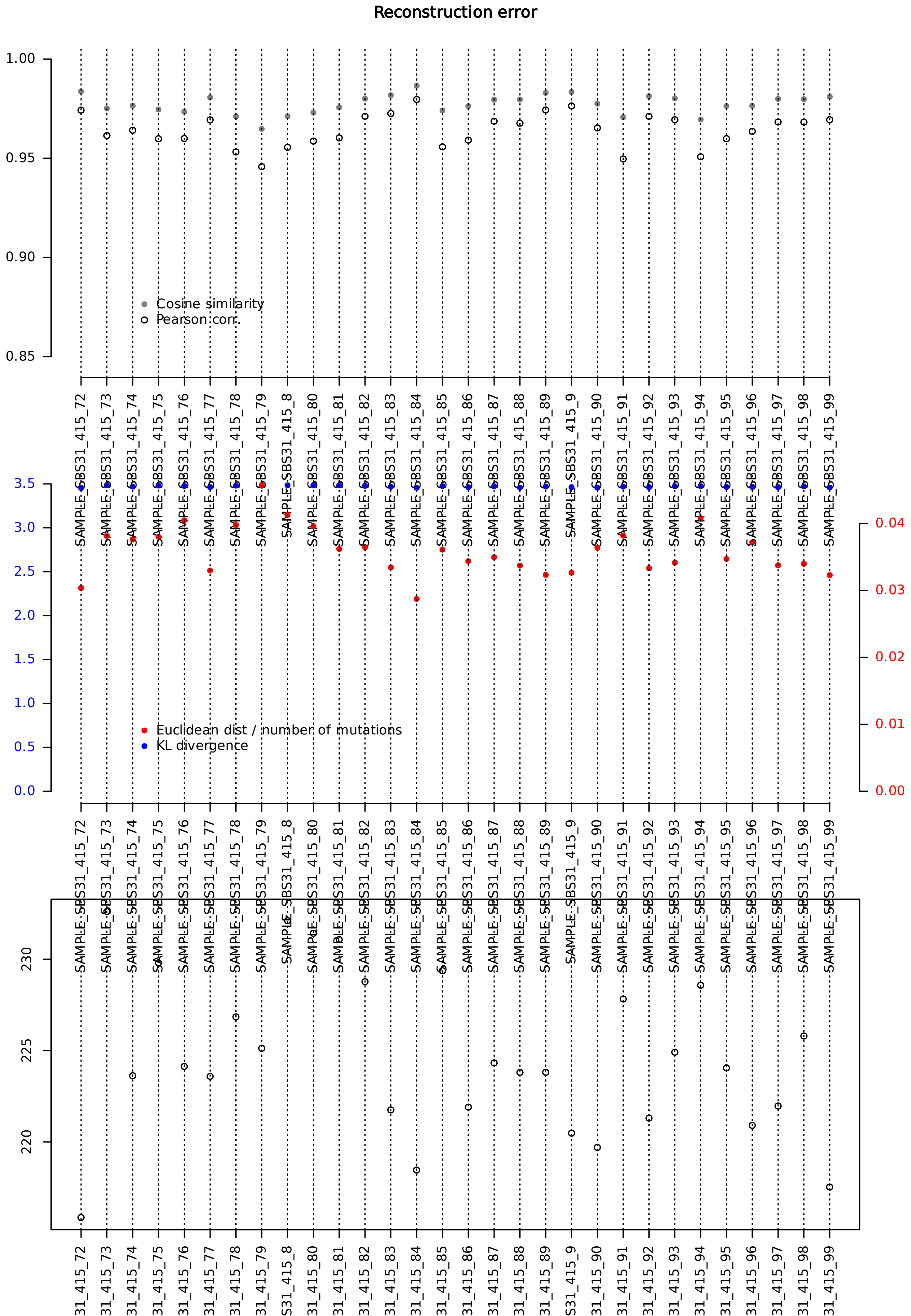

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
230
225
220
215
SAMPLE-SBS31_410_54
SAMPLE-SBS31_410_55
SAMPLE-SBS31_410_56
SAMPLE-SBS31_410_57
SAMPLE-SBS31_410_58
SAMPLE-SBS31_410_59
SAMPLE-SBS31_410_6
SAMPLE-SBS31_410_60
SAMPLE-SBS31_410_61
SAMPLE-SBS31_410_62
SAMPLE-SBS31_410_63
SAMPLE-SBS31_410_64
SAMPLE-SBS31_410_65
SAMPLE-SBS31_410_66
SAMPLE-SBS31_410_67
SAMPLE-SBS31_410_68
SAMPLE-SBS31_410_69
SAMPLE-SBS31_410_7
SAMPLE-SBS31_410_70
SAMPLE-SBS31_410_71
SAMPLE-SBS31_410_72
SAMPLE-SBS31_410_73
SAMPLE-SBS31_410_74
SAMPLE-SBS31_410_75
SAMPLE-SBS31_410_76
SAMPLE-SBS31_410_77
SAMPLE-SBS31_410_78
SAMPLE-SBS31_410_79
SAMPLE-SBS31_410_8
SAMPLE-SBS31_410_80

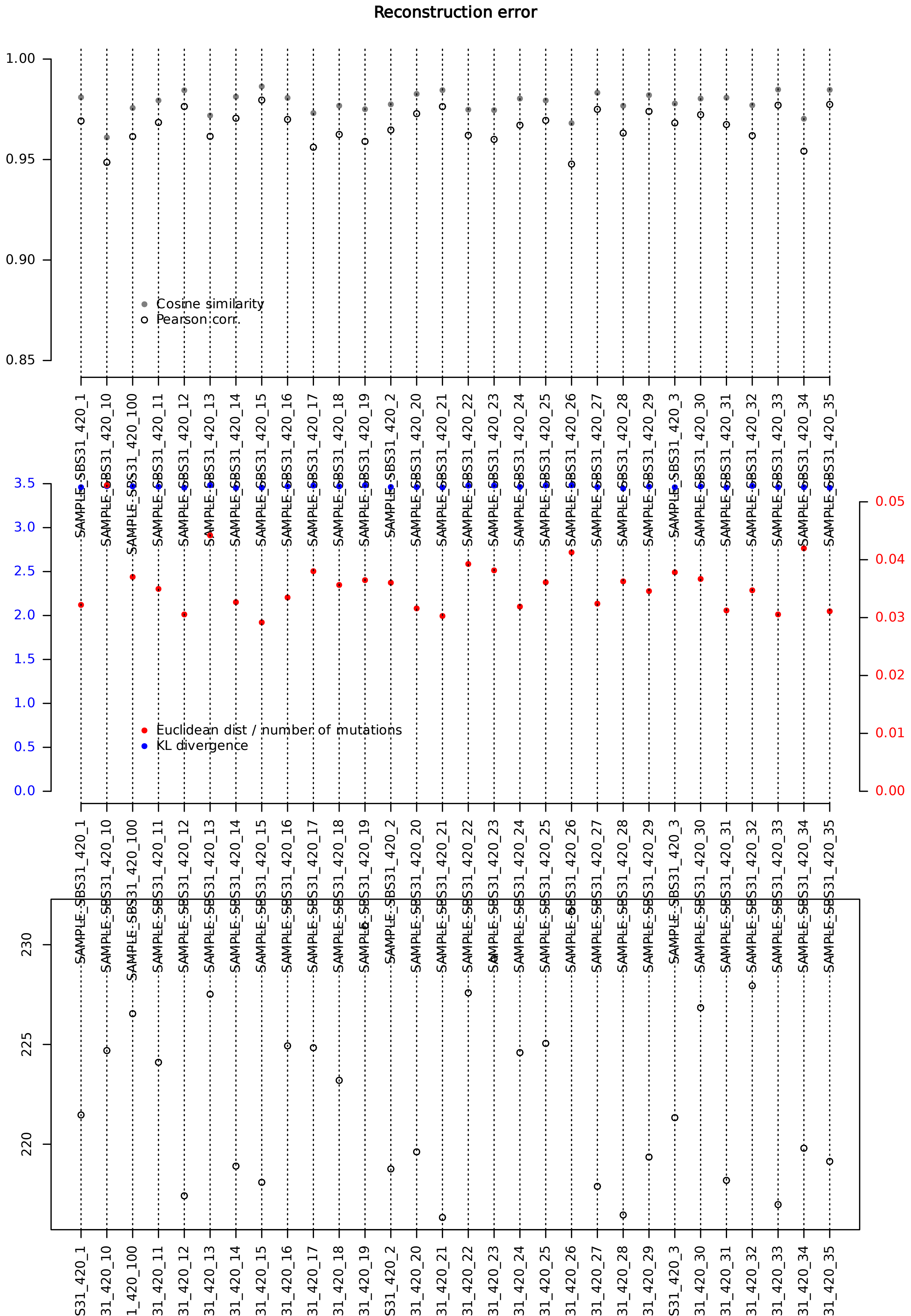

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
SAMPLE-SBS31_410_81
SAMPLE-SBS31_410_82
SAMPLE-SBS31_410_83
SAMPLE-SBS31_410_84
SAMPLE-SBS31_410_85
SAMPLE-SBS31_410_86
SAMPLE-SBS31_410_87
SAMPLE-SBS31_410_88
SAMPLE-SBS31_410_89
SAMPLE-SBS31_410_9
SAMPLE-SBS31_410_90
SAMPLE-SBS31_410_91
SAMPLE-SBS31_410_92
SAMPLE-SBS31_410_93
SAMPLE-SBS31_410_94
SAMPLE-SBS31_410_95
SAMPLE-SBS31_410_96
SAMPLE-SBS31_410_97
SAMPLE-SBS31_410_98
SAMPLE-SBS31_410_99
SAMPLE-SBS31_415_1
SAMPLE-SBS31_415_10
SAMPLE-SBS31_415_100
SAMPLE-SBS31_415_11
SAMPLE-SBS31_415_12
SAMPLE-SBS31_415_13
SAMPLE-SBS31_415_14
SAMPLE-SBS31_415_15
SAMPLE-SBS31_415_16
SAMPLE-SBS31_415_17
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.05
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
230
225
220

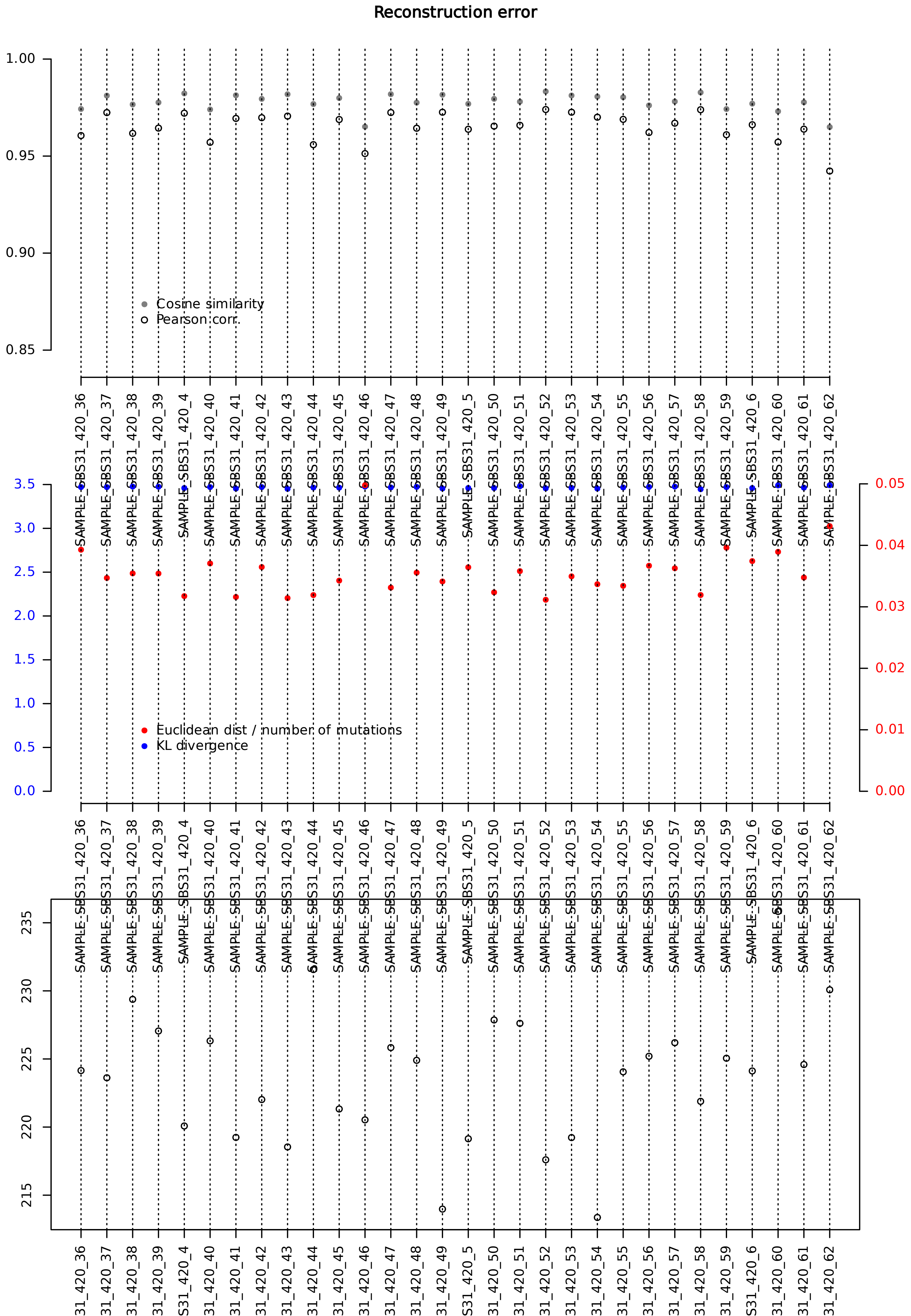
Reconstruction error

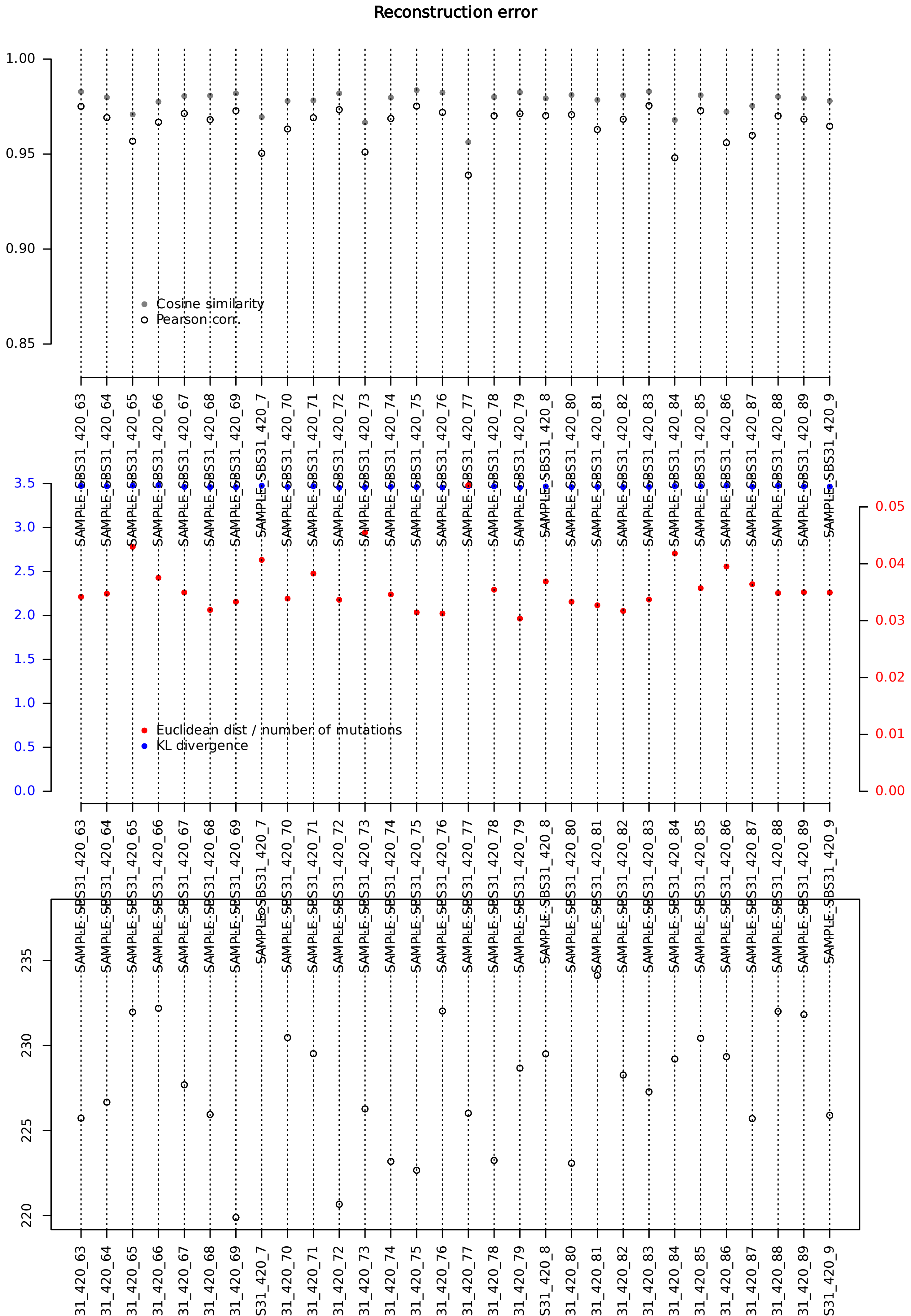



Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
220
SAMPLE-SBS31_415_45
SAMPLE-SBS31_415_46
SAMPLE-SBS31_415_47
SAMPLE-SBS31_415_48
SAMPLE-SBS31_415_49
SAMPLE-SBS31_415_5
SAMPLE-SBS31_415_50
SAMPLE-SBS31_415_51
SAMPLE-SBS31_415_52
SAMPLE-SBS31_415_53
SAMPLE-SBS31_415_54
SAMPLE-SBS31_415_55
SAMPLE-SBS31_415_56
SAMPLE-SBS31_415_57
SAMPLE-SBS31_415_58
SAMPLE-SBS31_415_59
SAMPLE-SBS31_415_6
SAMPLE-SBS31_415_60
SAMPLE-SBS31_415_61
SAMPLE-SBS31_415_62
SAMPLE-SBS31_415_63
SAMPLE-SBS31_415_64
SAMPLE-SBS31_415_65
SAMPLE-SBS31_415_66
SAMPLE-SBS31_415_67
SAMPLE-SBS31_415_68
SAMPLE-SBS31_415_69
SAMPLE-SBS31_415_7
SAMPLE-SBS31_415_70
SAMPLE-SBS31_415_71

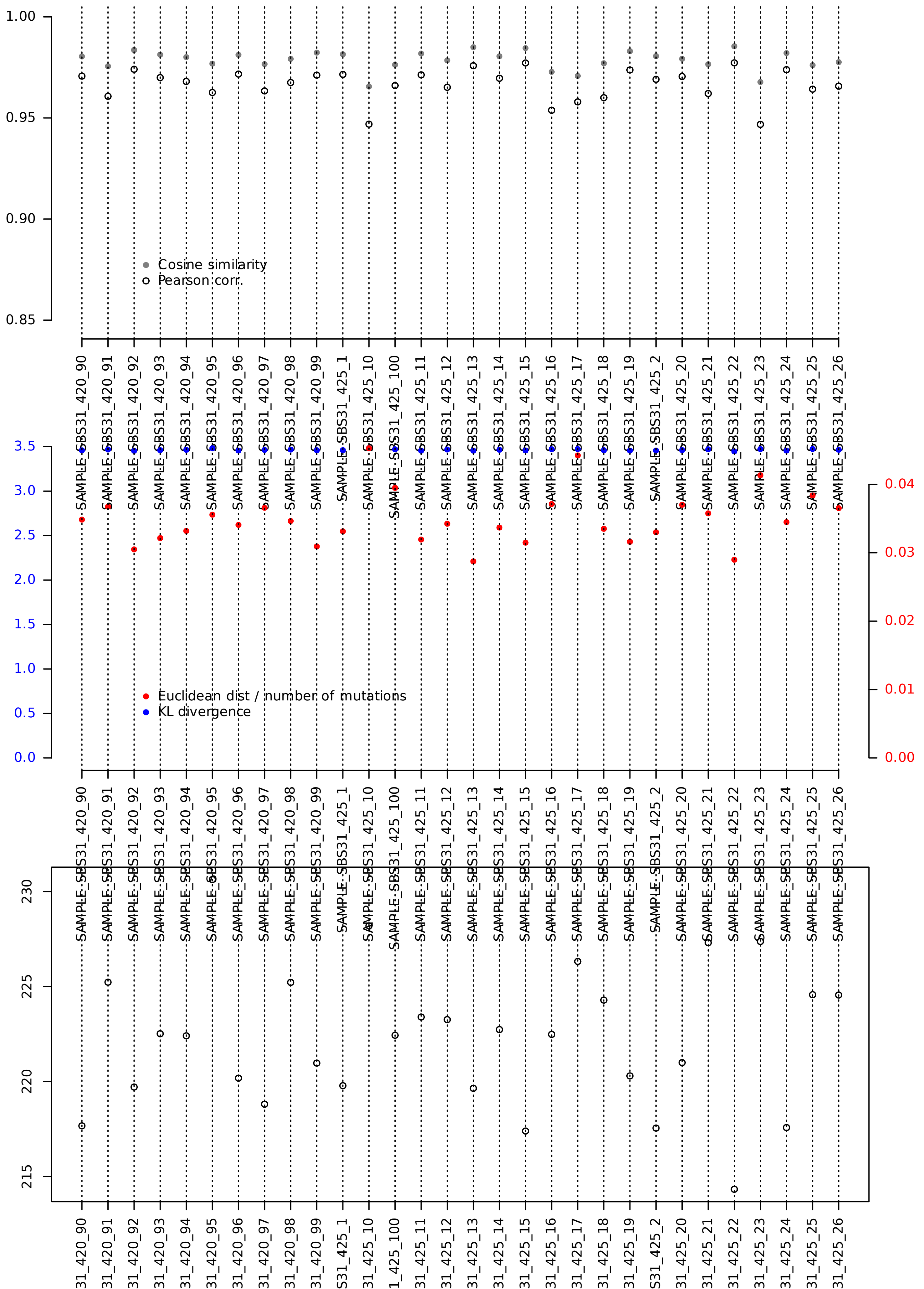

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
230
225
220
SAMPLE-SBS31_415_72
SAMPLE-SBS31_415_73
SAMPLE-SBS31_415_74
SAMPLE-SBS31_415_75
SAMPLE-SBS31_415_76
SAMPLE-SBS31_415_77
SAMPLE-SBS31_415_78
SAMPLE-SBS31_415_79
SAMPLE-SBS31_415_8
SAMPLE-SBS31_415_80
SAMPLE-SBS31_415_81
SAMPLE-SBS31_415_82
SAMPLE-SBS31_415_83
SAMPLE-SBS31_415_84
SAMPLE-SBS31_415_85
SAMPLE-SBS31_415_86
SAMPLE-SBS31_415_87
SAMPLE-SBS31_415_88
SAMPLE-SBS31_415_89
SAMPLE-SBS31_415_9
SAMPLE-SBS31_415_90
SAMPLE-SBS31_415_91
SAMPLE-SBS31_415_92
SAMPLE-SBS31_415_93
SAMPLE-SBS31_415_94
SAMPLE-SBS31_415_95
SAMPLE-SBS31_415_96
SAMPLE-SBS31_415_97
SAMPLE-SBS31_415_98
SAMPLE-SBS31_415_99

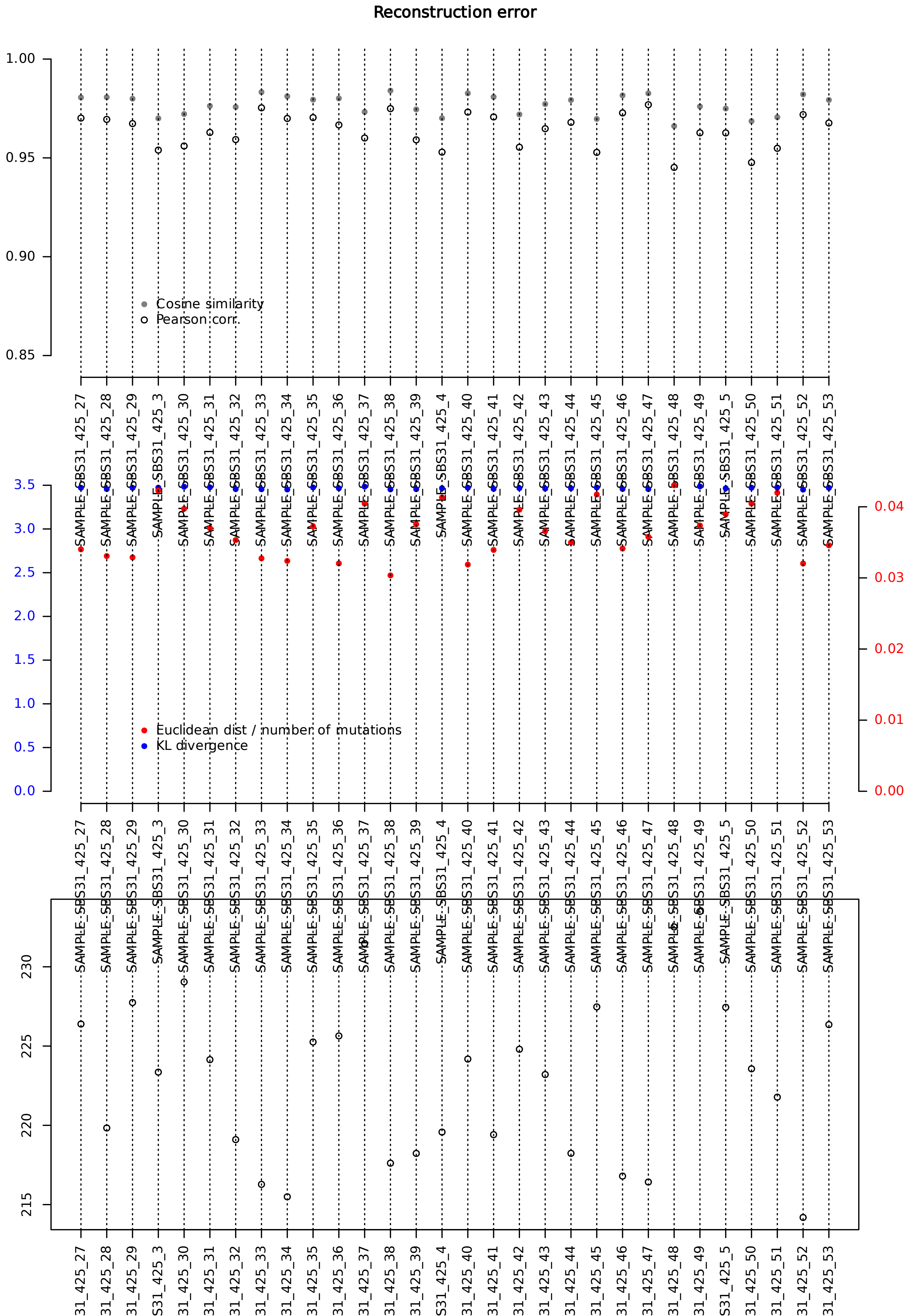

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
SAMPLE-SBS31_420_1
SAMPLE-SBS31_420_10
SAMPLE-SBS31_420_100
SAMPLE-SBS31_420_11
SAMPLE-SBS31_420_12
SAMPLE-SBS31_420_13
SAMPLE-SBS31_420_14
SAMPLE-SBS31_420_15
SAMPLE-SBS31_420_16
SAMPLE-SBS31_420_17
SAMPLE-SBS31_420_18
SAMPLE-SBS31_420_19
SAMPLE-SBS31_420_2
SAMPLE-SBS31_420_20
SAMPLE-SBS31_420_21
SAMPLE-SBS31_420_22
SAMPLE-SBS31_420_23
SAMPLE-SBS31_420_24
SAMPLE-SBS31_420_25
SAMPLE-SBS31_420_26
SAMPLE-SBS31_420_27
SAMPLE-SBS31_420_28
SAMPLE-SBS31_420_29
SAMPLE-SBS31_420_3
SAMPLE-SBS31_420_30
SAMPLE-SBS31_420_31
SAMPLE-SBS31_420_32
SAMPLE-SBS31_420_33
SAMPLE-SBS31_420_34
SAMPLE-SBS31_420_35
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.05
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
230
225
220


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.05
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
220
215
SAMPLE-SBS31_420_36
SAMPLE-SBS31_420_37
SAMPLE-SBS31_420_38
SAMPLE-SBS31_420_39
SAMPLE-SBS31_420_4
SAMPLE-SBS31_420_40
SAMPLE-SBS31_420_41
SAMPLE-SBS31_420_42
SAMPLE-SBS31_420_43
SAMPLE-SBS31_420_44
SAMPLE-SBS31_420_45
SAMPLE-SBS31_420_46
SAMPLE-SBS31_420_47
SAMPLE-SBS31_420_48
SAMPLE-SBS31_420_49
SAMPLE-SBS31_420_5
SAMPLE-SBS31_420_50
SAMPLE-SBS31_420_51
SAMPLE-SBS31_420_52
SAMPLE-SBS31_420_53
SAMPLE-SBS31_420_54
SAMPLE-SBS31_420_55
SAMPLE-SBS31_420_56
SAMPLE-SBS31_420_57
SAMPLE-SBS31_420_58
SAMPLE-SBS31_420_59
SAMPLE-SBS31_420_6
SAMPLE-SBS31_420_60
SAMPLE-SBS31_420_61
SAMPLE-SBS31_420_62


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.05
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
220
SAMPLE-SBS31_420_63
SAMPLE-SBS31_420_64
SAMPLE-SBS31_420_65
SAMPLE-SBS31_420_66
SAMPLE-SBS31_420_67
SAMPLE-SBS31_420_68
SAMPLE-SBS31_420_69
SAMPLE-SBS31_420_7
SAMPLE-SBS31_420_70
SAMPLE-SBS31_420_71
SAMPLE-SBS31_420_72
SAMPLE-SBS31_420_73
SAMPLE-SBS31_420_74
SAMPLE-SBS31_420_75
SAMPLE-SBS31_420_76
SAMPLE-SBS31_420_77
SAMPLE-SBS31_420_78
SAMPLE-SBS31_420_79
SAMPLE-SBS31_420_8
SAMPLE-SBS31_420_80
SAMPLE-SBS31_420_81
SAMPLE-SBS31_420_82
SAMPLE-SBS31_420_83
SAMPLE-SBS31_420_84
SAMPLE-SBS31_420_85
SAMPLE-SBS31_420_86
SAMPLE-SBS31_420_87
SAMPLE-SBS31_420_88
SAMPLE-SBS31_420_89
SAMPLE-SBS31_420_9

Reconstruction error




Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
230
225
220
215
SAMPLE-SBS31_425_27
SAMPLE-SBS31_425_28
SAMPLE-SBS31_425_29
SAMPLE-SBS31_425_3
SAMPLE-SBS31_425_30
SAMPLE-SBS31_425_31
SAMPLE-SBS31_425_32
SAMPLE-SBS31_425_33
SAMPLE-SBS31_425_34
SAMPLE-SBS31_425_35
SAMPLE-SBS31_425_36
SAMPLE-SBS31_425_37
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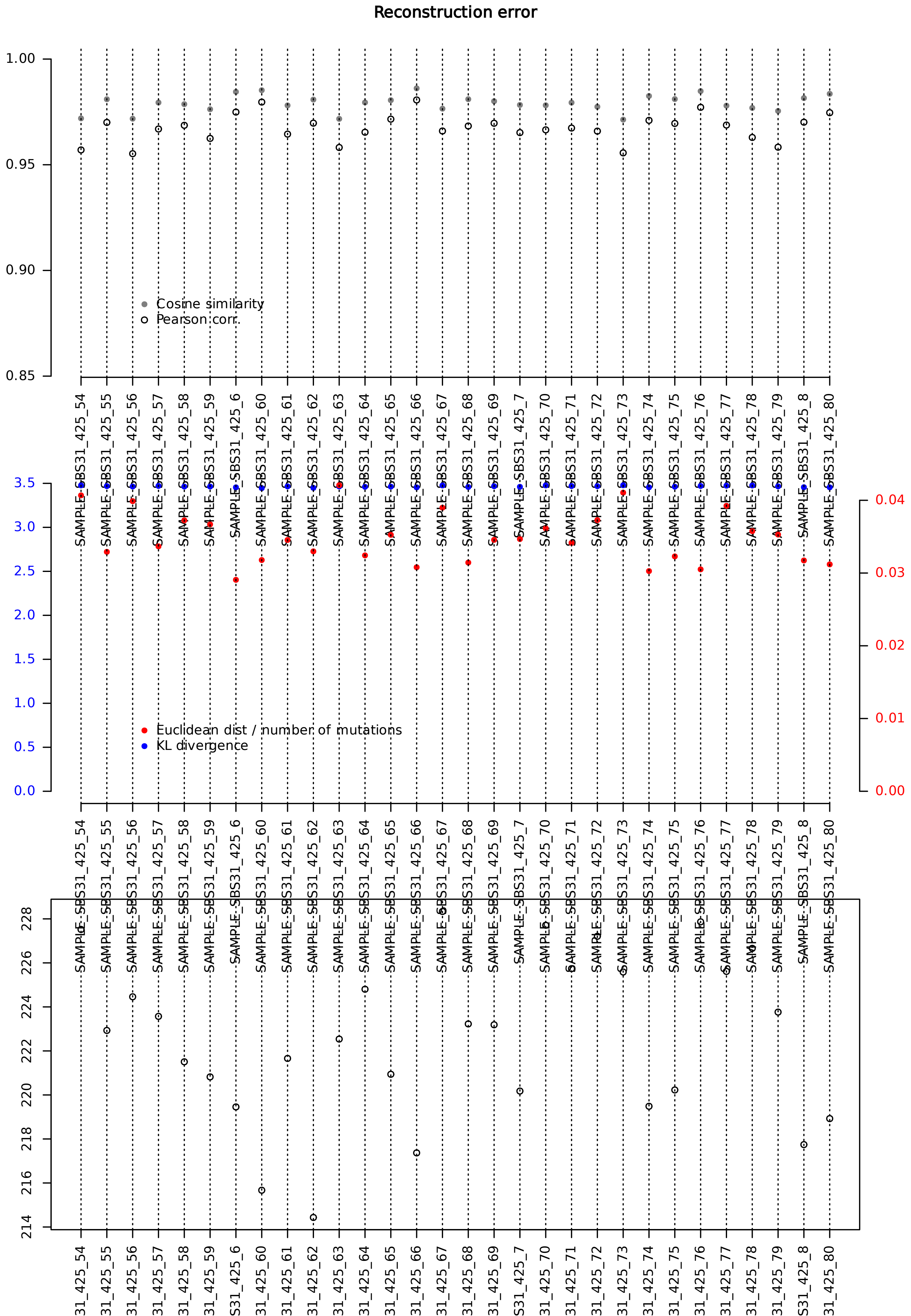
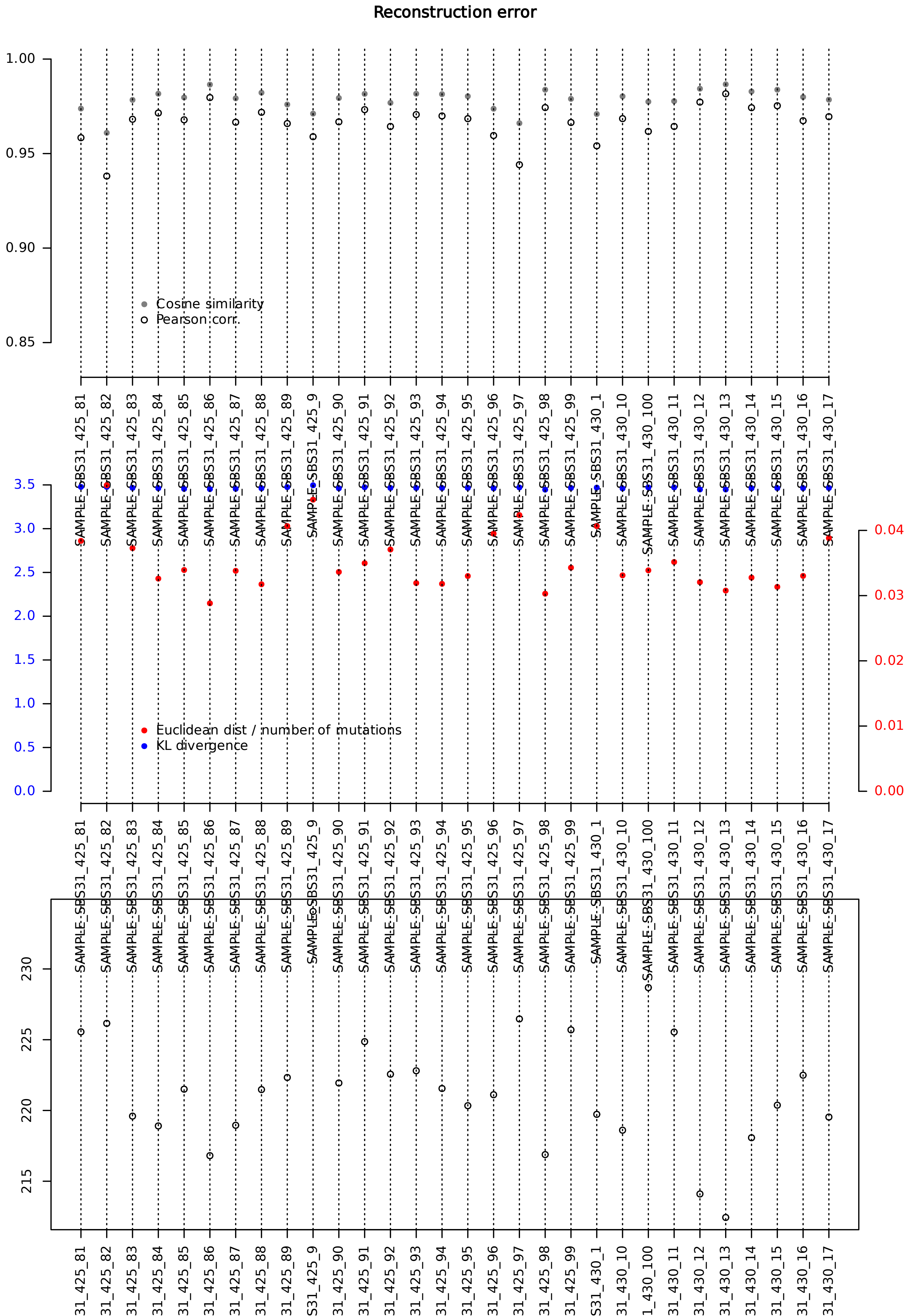
SAMPLE-SBS31_425_39
SAMPLE-SBS31_425_4
SAMPLE-SBS31_425_40
SAMPLE-SBS31_425_41
SAMPLE-SBS31_425_42
SAMPLE-SBS31_425_43
SAMPLE-SBS31_425_44
SAMPLE-SBS31_425_45
SAMPLE-SBS31_425_46
SAMPLE-SBS31_425_47
SAMPLE-SBS31_425_48
SAMPLE-SBS31_425_49
SAMPLE-SBS31_425_5
SAMPLE-SBS31_425_50
SAMPLE-SBS31_425_51
SAMPLE-SBS31_425_52
SAMPLE-SBS31_425_53


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
228
226
224
222
220
218
216
214
SAMPLE-SBS31_425_54
SAMPLE-SBS31_425_55
SAMPLE-SBS31_425_56
SAMPLE-SBS31_425_57
SAMPLE-SBS31_425_58
SAMPLE-SBS31_425_59
SAMPLE-SBS31_425_6
SAMPLE-SBS31_425_60
SAMPLE-SBS31_425_61
SAMPLE-SBS31_425_62
SAMPLE-SBS31_425_63
SAMPLE-SBS31_425_64
SAMPLE-SBS31_425_65
SAMPLE-SBS31_425_66
SAMPLE-SBS31_425_67
SAMPLE-SBS31_425_68
SAMPLE-SBS31_425_69
SAMPLE-SBS31_425_7
SAMPLE-SBS31_425_70
SAMPLE-SBS31_425_71
SAMPLE-SBS31_425_72
SAMPLE-SBS31_425_73
SAMPLE-SBS31_425_74
SAMPLE-SBS31_425_75
SAMPLE-SBS31_425_76
SAMPLE-SBS31_425_77
SAMPLE-SBS31_425_78
SAMPLE-SBS31_425_79
SAMPLE-SBS31_425_8
SAMPLE-SBS31_425_80


Reconstruction error
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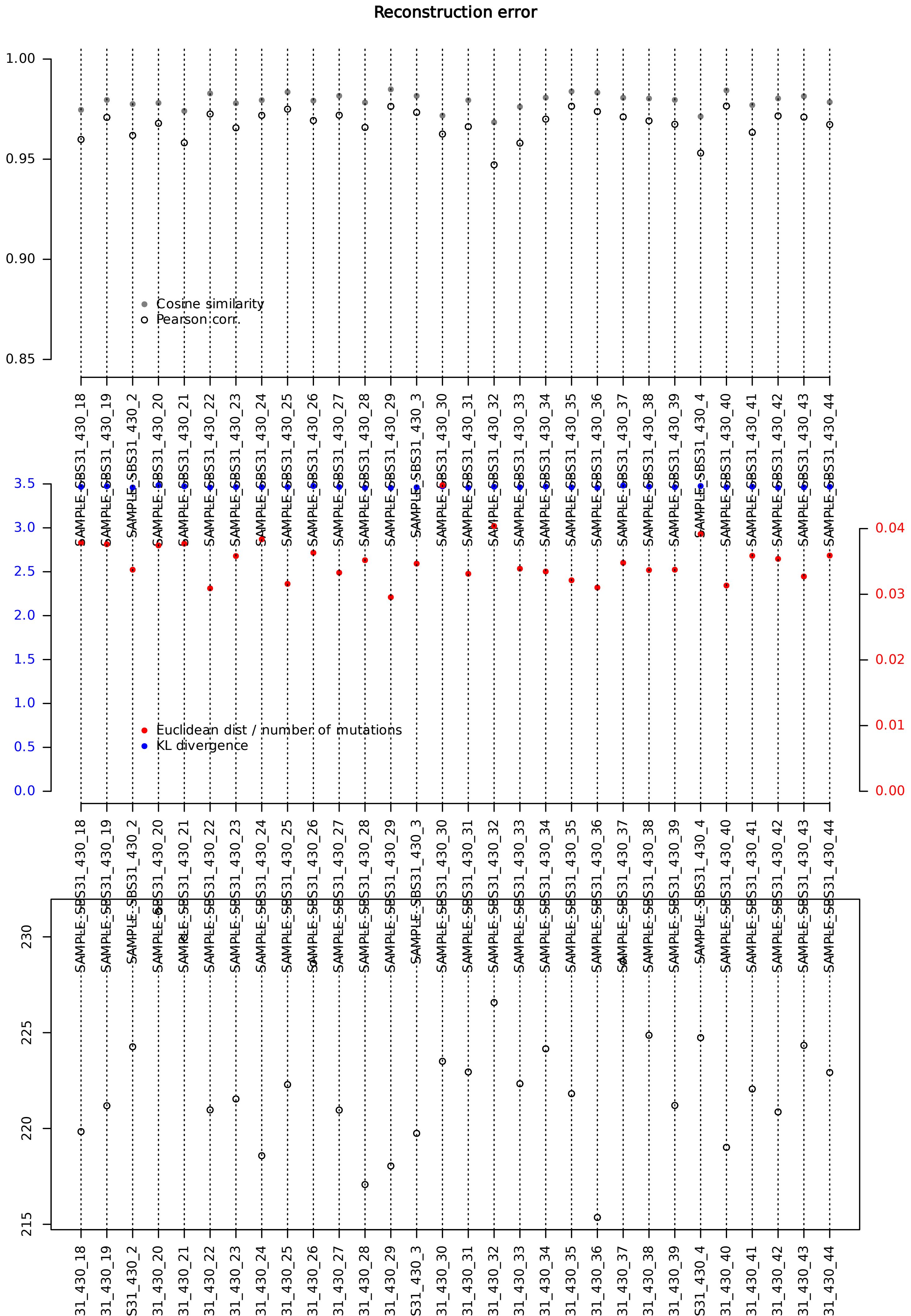
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
230
225
220
215
SAMPLE-SBS31_425_81
SAMPLE-SBS31_425_82
SAMPLE-SBS31_425_83
SAMPLE-SBS31_425_84
SAMPLE-SBS31_425_85
SAMPLE-SBS31_425_86
SAMPLE-SBS31_425_87
SAMPLE-SBS31_425_88
SAMPLE-SBS31_425_89
SAMPLE-SBS31_425_9
SAMPLE-SBS31_425_90
SAMPLE-SBS31_425_91
SAMPLE-SBS31_425_92
SAMPLE-SBS31_425_93
SAMPLE-SBS31_425_94
SAMPLE-SBS31_425_95
SAMPLE-SBS31_425_96
SAMPLE-SBS31_425_97
SAMPLE-SBS31_425_98
SAMPLE-SBS31_425_99
SAMPLE-SBS31_430_1
SAMPLE-SBS31_430_10
SAMPLE-SBS31_430_100
SAMPLE-SBS31_430_11
SAMPLE-SBS31_430_12
SAMPLE-SBS31_430_13
SAMPLE-SBS31_430_14
SAMPLE-SBS31_430_15
SAMPLE-SBS31_430_16
SAMPLE-SBS31_430_17


Reconstruction error
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0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
230
225
220
215
SAMPLE-SBS31_430_18
SAMPLE-SBS31_430_19
SAMPLE-SBS31_430_2
SAMPLE-SBS31_430_20
SAMPLE-SBS31_430_21
SAMPLE-SBS31_430_22
SAMPLE-SBS31_430_23
SAMPLE-SBS31_430_24
SAMPLE-SBS31_430_25
SAMPLE-SBS31_430_26
SAMPLE-SBS31_430_27
SAMPLE-SBS31_430_28
SAMPLE-SBS31_430_29
SAMPLE-SBS31_430_3
SAMPLE-SBS31_430_30
SAMPLE-SBS31_430_31
SAMPLE-SBS31_430_32
SAMPLE-SBS31_430_33
SAMPLE-SBS31_430_34
SAMPLE-SBS31_430_35
SAMPLE-SBS31_430_36
SAMPLE-SBS31_430_37
SAMPLE-SBS31_430_38
SAMPLE-SBS31_430_39
SAMPLE-SBS31_430_4
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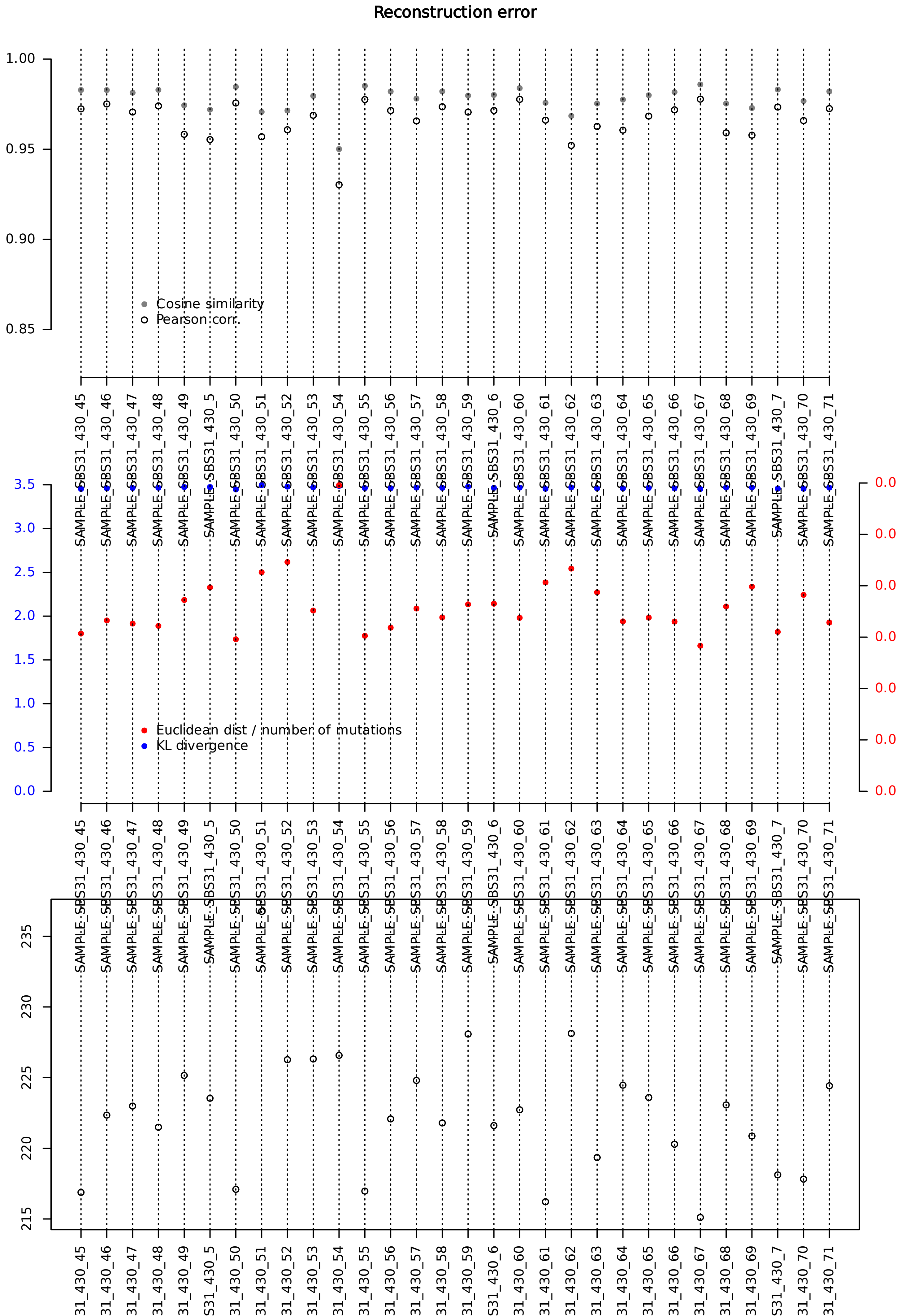
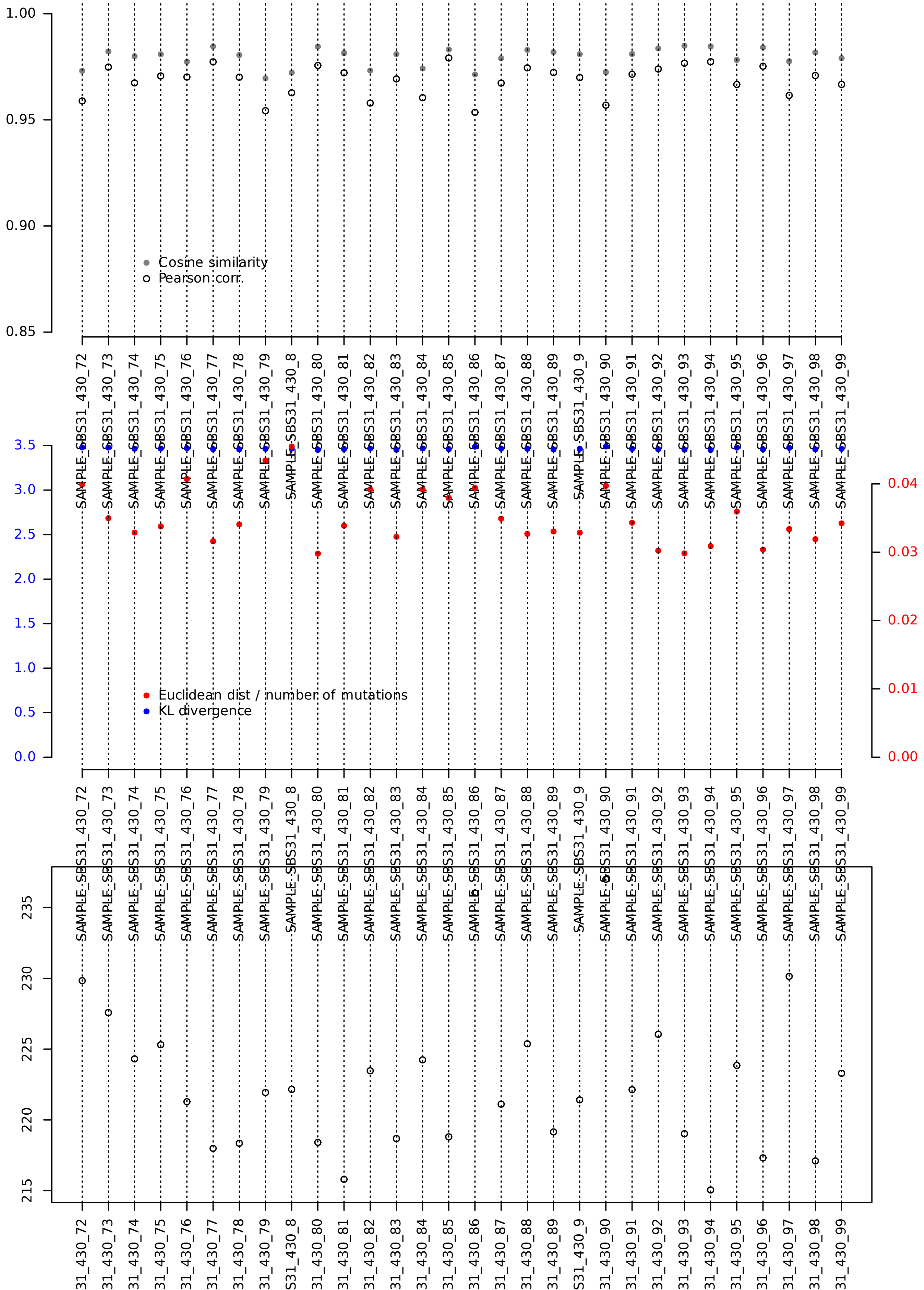
SAMPLE-SBS31_430_41
SAMPLE-SBS31_430_42
SAMPLE-SBS31_430_43
SAMPLE-SBS31_430_44


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
SAMPLE-SBS31_430_45
SAMPLE-SBS31_430_46
SAMPLE-SBS31_430_47
SAMPLE-SBS31_430_48
SAMPLE-SBS31_430_49
SAMPLE-SBS31_430_5
SAMPLE-SBS31_430_50
SAMPLE-SBS31_430_51
SAMPLE-SBS31_430_52
SAMPLE-SBS31_430_53
SAMPLE-SBS31_430_54
SAMPLE-SBS31_430_55
SAMPLE-SBS31_430_56
SAMPLE-SBS31_430_57
SAMPLE-SBS31_430_58
SAMPLE-SBS31_430_59
SAMPLE-SBS31_430_6
SAMPLE-SBS31_430_60
SAMPLE-SBS31_430_61
SAMPLE-SBS31_430_62
SAMPLE-SBS31_430_63
SAMPLE-SBS31_430_64
SAMPLE-SBS31_430_65
SAMPLE-SBS31_430_66
SAMPLE-SBS31_430_67
SAMPLE-SBS31_430_68
SAMPLE-SBS31_430_69
SAMPLE-SBS31_430_7
SAMPLE-SBS31_430_70
SAMPLE-SBS31_430_71
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.06
0.05
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
220
215


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
220
215
SAMPLE-SBS31_430_72
SAMPLE-SBS31_430_73
SAMPLE-SBS31_430_74
SAMPLE-SBS31_430_75
SAMPLE-SBS31_430_76
SAMPLE-SBS31_430_77
SAMPLE-SBS31_430_78
SAMPLE-SBS31_430_79
SAMPLE-SBS31_430_8
SAMPLE-SBS31_430_80
SAMPLE-SBS31_430_81
SAMPLE-SBS31_430_82
SAMPLE-SBS31_430_83
SAMPLE-SBS31_430_84
SAMPLE-SBS31_430_85
SAMPLE-SBS31_430_86
SAMPLE-SBS31_430_87
SAMPLE-SBS31_430_88
SAMPLE-SBS31_430_89
SAMPLE-SBS31_430_9
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SAMPLE-SBS31_430_92
SAMPLE-SBS31_430_93
SAMPLE-SBS31_430_94
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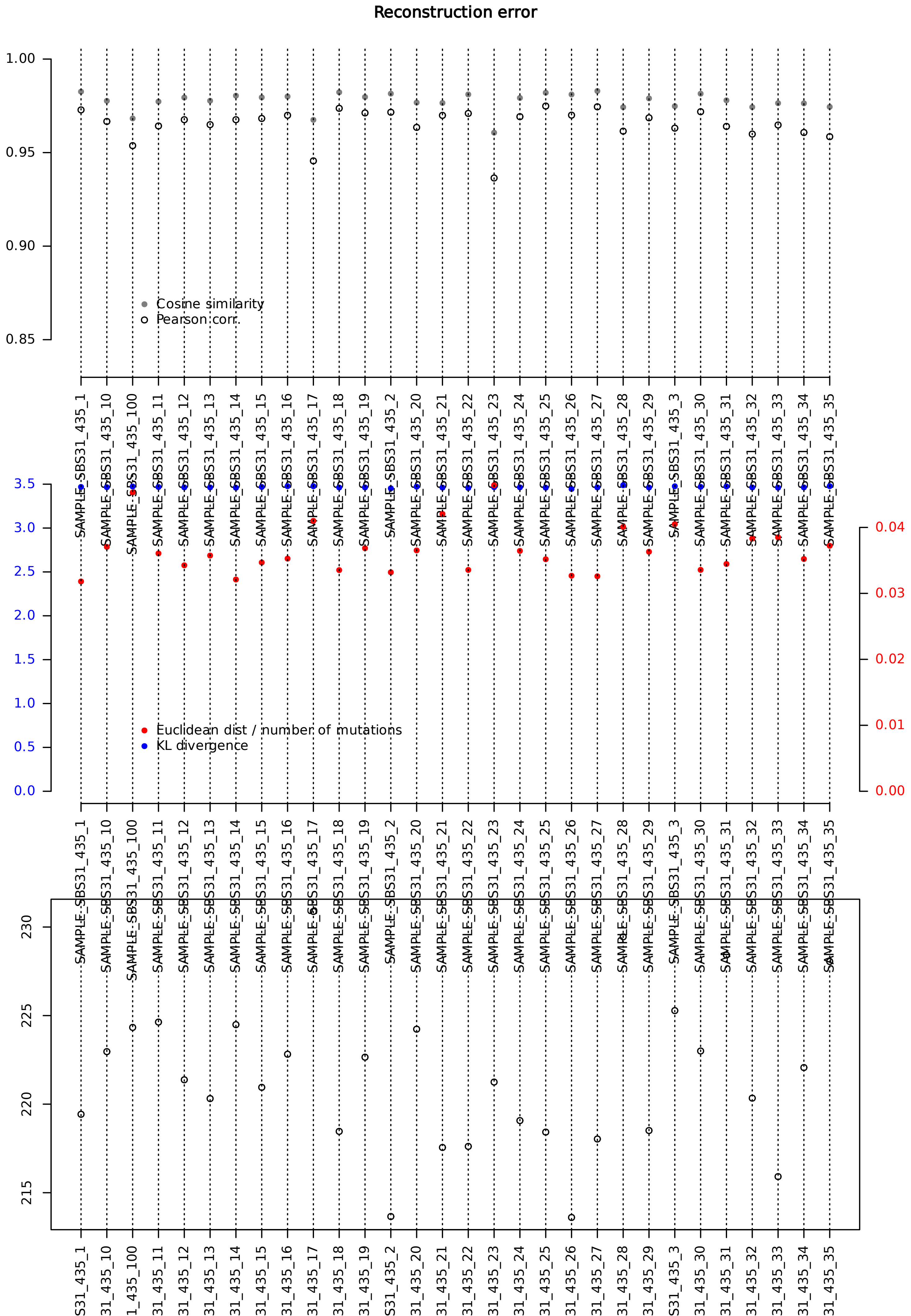
SAMPLE-SBS31_430_98
SAMPLE-SBS31_430_99


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
SAMPLE-SBS31_435_1
SAMPLE-SBS31_435_10
SAMPLE-SBS31_435_100
SAMPLE-SBS31_435_11
SAMPLE-SBS31_435_12
SAMPLE-SBS31_435_13
SAMPLE-SBS31_435_14
SAMPLE-SBS31_435_15
SAMPLE-SBS31_435_16
SAMPLE-SBS31_435_17
SAMPLE-SBS31_435_18
SAMPLE-SBS31_435_19
SAMPLE-SBS31_435_2
SAMPLE-SBS31_435_20
SAMPLE-SBS31_435_21
SAMPLE-SBS31_435_22
SAMPLE-SBS31_435_23
SAMPLE-SBS31_435_24
SAMPLE-SBS31_435_25
SAMPLE-SBS31_435_26
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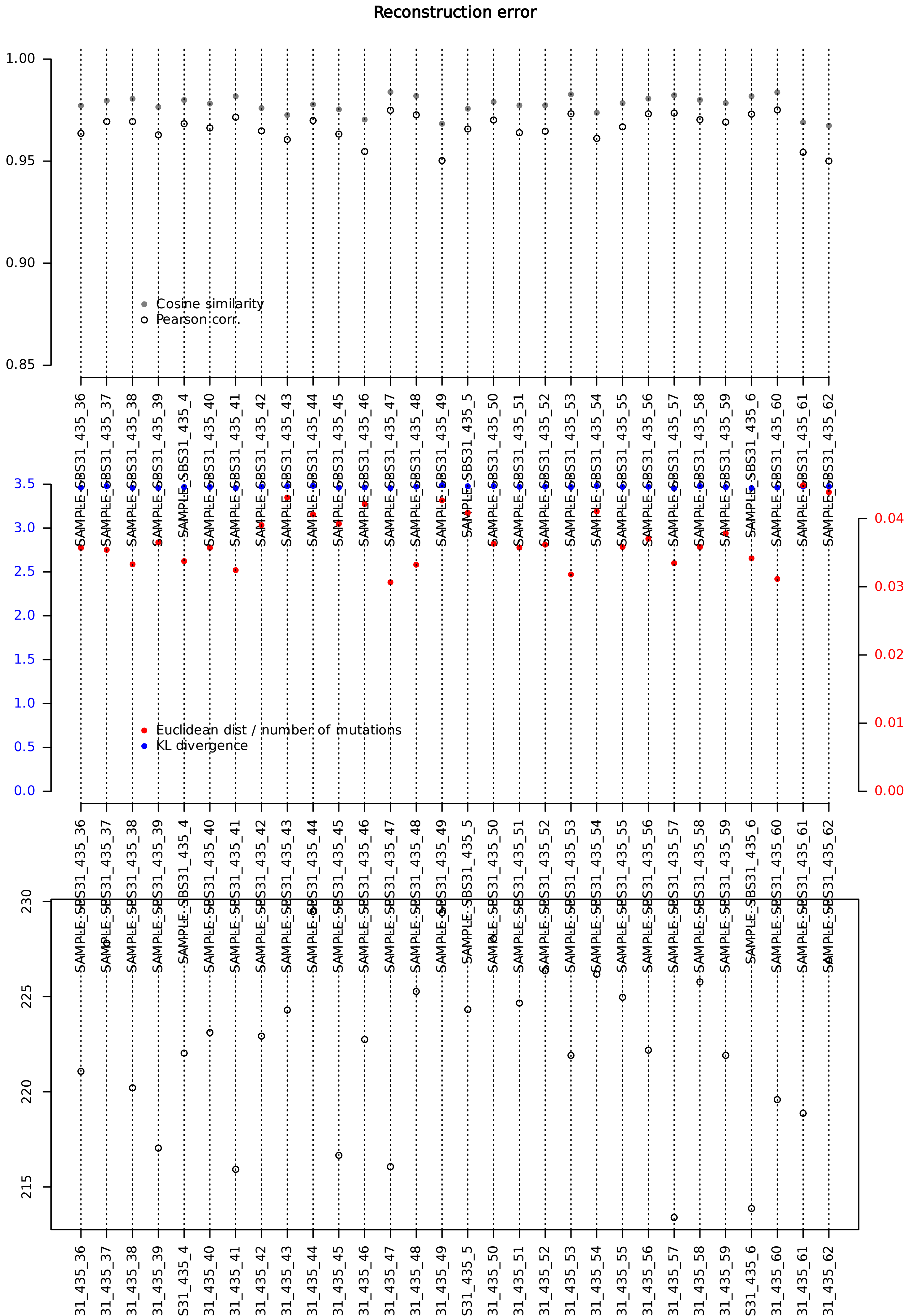
SAMPLE-SBS31_435_29
SAMPLE-SBS31_435_3
SAMPLE-SBS31_435_30
SAMPLE-SBS31_435_31
SAMPLE-SBS31_435_32
SAMPLE-SBS31_435_33
SAMPLE-SBS31_435_34
SAMPLE-SBS31_435_35
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
230
225
220
215


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
SAMPLE_SBS31_435_36
SAMPLE_SBS31_435_37
SAMPLE_SBS31_435_38
SAMPLE_SBS31_435_39
SAMPLE_SBS31_435_4
SAMPLE_SBS31_435_40
SAMPLE_SBS31_435_41
SAMPLE_SBS31_435_42
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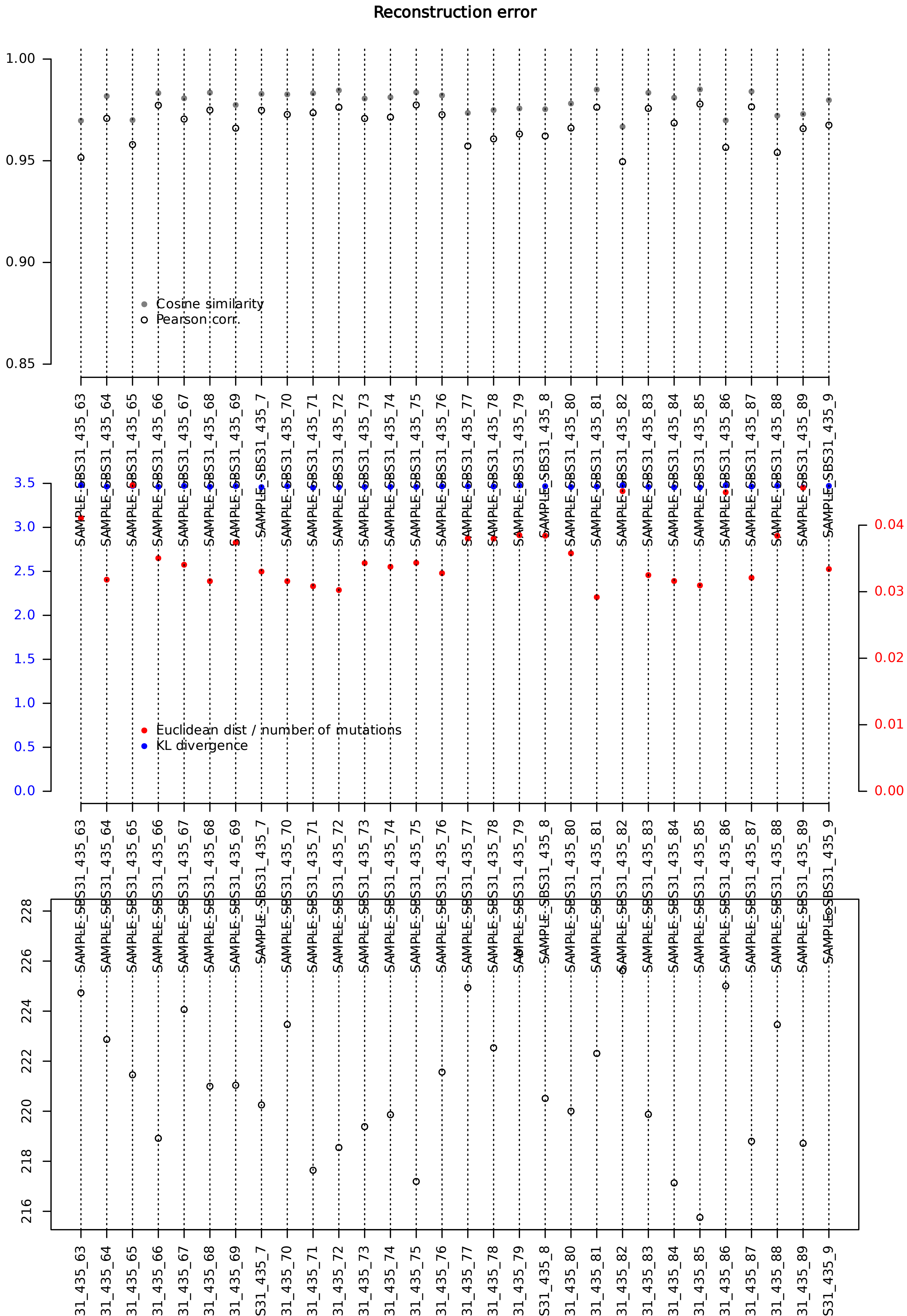
SAMPLE_SBS31_435_58
SAMPLE_SBS31_435_59
SAMPLE_SBS31_435_6
SAMPLE_SBS31_435_60
SAMPLE_SBS31_435_61
SAMPLE_SBS31_435_62
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
230
225
220
215


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
228
226
224
222
220
218
216
SAMPLE-SBS31_435_63
SAMPLE-SBS31_435_64
SAMPLE-SBS31_435_65
SAMPLE-SBS31_435_66
SAMPLE-SBS31_435_67
SAMPLE-SBS31_435_68
SAMPLE-SBS31_435_69
SAMPLE-SBS31_435_7
SAMPLE-SBS31_435_70
SAMPLE-SBS31_435_71
SAMPLE-SBS31_435_72
SAMPLE-SBS31_435_73
SAMPLE-SBS31_435_74
SAMPLE-SBS31_435_75
SAMPLE-SBS31_435_76
SAMPLE-SBS31_435_77
SAMPLE-SBS31_435_78
SAMPLE-SBS31_435_79
SAMPLE-SBS31_435_8
SAMPLE-SBS31_435_80
SAMPLE-SBS31_435_81
SAMPLE-SBS31_435_82
SAMPLE-SBS31_435_83
SAMPLE-SBS31_435_84
SAMPLE-SBS31_435_85
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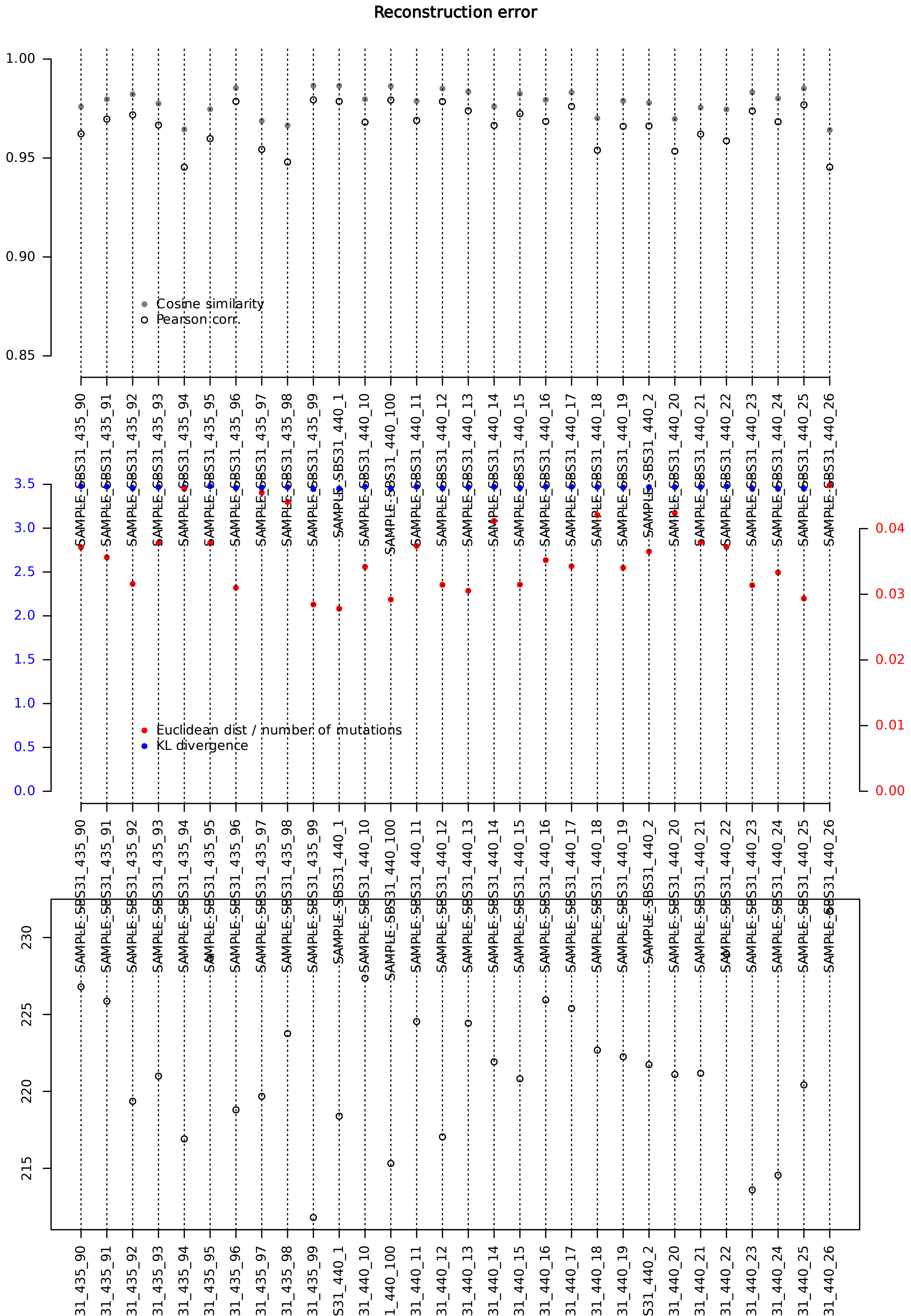
SAMPLE-SBS31_435_87
SAMPLE-SBS31_435_88
SAMPLE-SBS31_435_89
SAMPLE-SBS31_435_9


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
SAMPLE-SBS31_435_90
SAMPLE-SBS31_435_91
SAMPLE-SBS31_435_92
SAMPLE-SBS31_435_93
SAMPLE-SBS31_435_94
SAMPLE-SBS31_435_95
SAMPLE-SBS31_435_96
SAMPLE-SBS31_435_97
SAMPLE-SBS31_435_98
SAMPLE-SBS31_435_99
SAMPLE-SBS31_440_1
SAMPLE-SBS31_440_10
SAMPLE-SBS31_440_100
SAMPLE-SBS31_440_11
SAMPLE-SBS31_440_12
SAMPLE-SBS31_440_13
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SAMPLE-SBS31_440_16
SAMPLE-SBS31_440_17
SAMPLE-SBS31_440_18
SAMPLE-SBS31_440_19
SAMPLE-SBS31_440_2
SAMPLE-SBS31_440_20
SAMPLE-SBS31_440_21
SAMPLE-SBS31_440_22
SAMPLE-SBS31_440_23
SAMPLE-SBS31_440_24
SAMPLE-SBS31_440_25
SAMPLE-SBS31_440_26
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
230
225
220
215
31_435_90
31_435_91
31_435_92
31_435_93
31_435_94
31_435_95
31_435_96
31_435_97
31_435_98
31_435_99
S31_440_1
31_440_10
1_440_100
31_440_11
31_440_12
31_440_13
31_440_14
31_440_15
31_440_16
31_440_17
31_440_18
31_440_19
S31_440_2
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31_440_21
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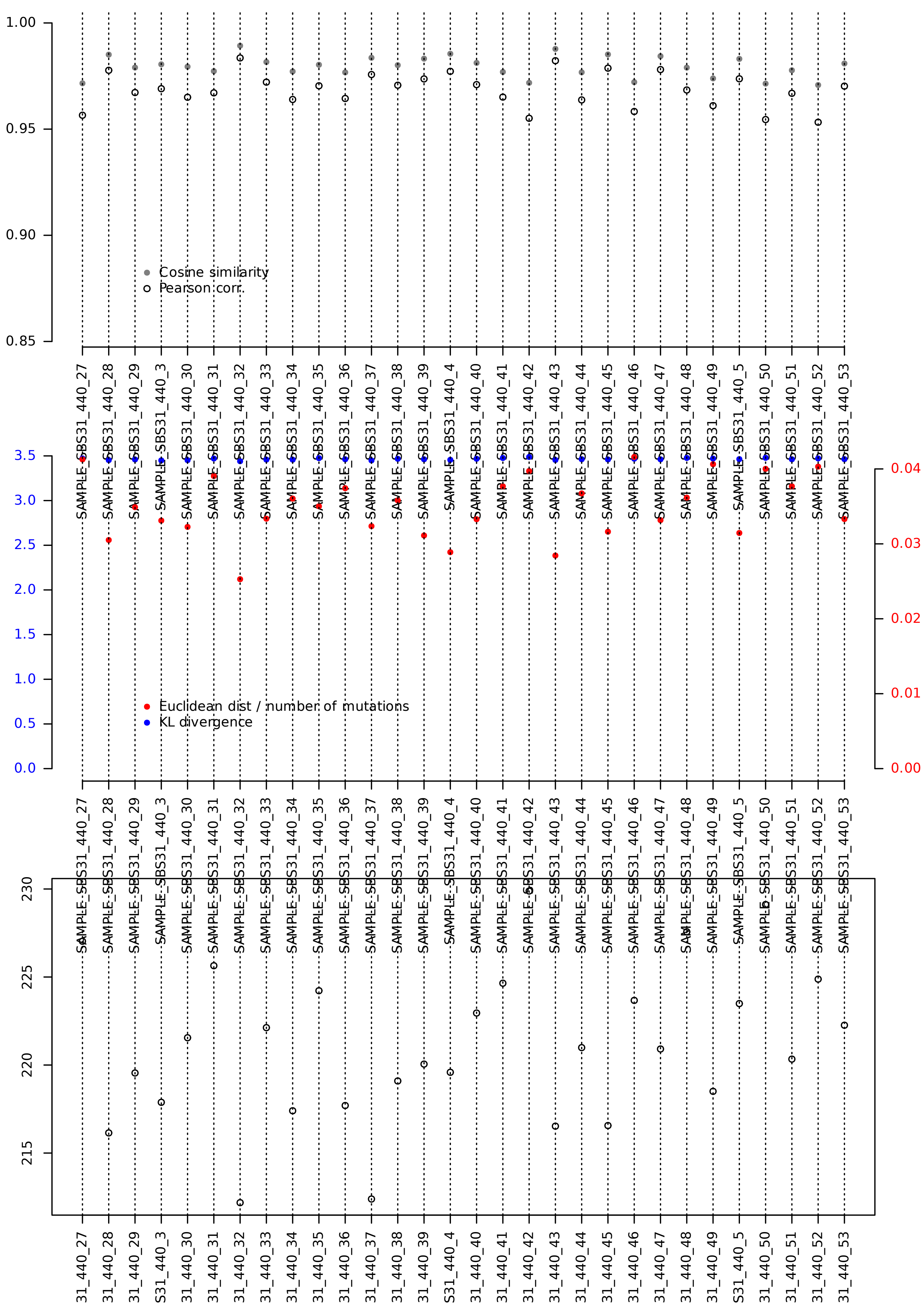
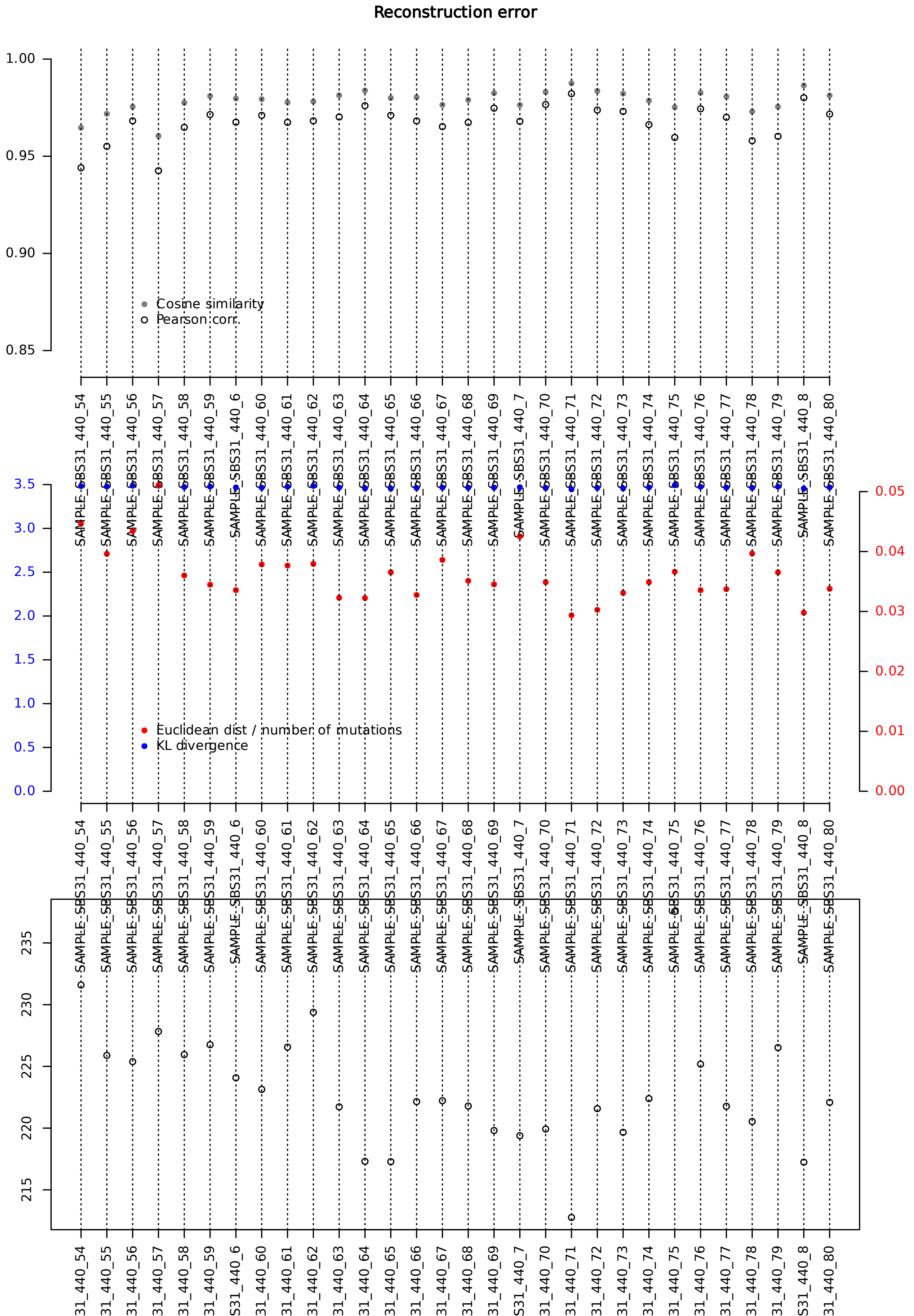
31_440_25
31_440_26

Reconstruction error




Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.05
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
220
215
SAMPLE-SBS31_440_54
SAMPLE-SBS31_440_55
SAMPLE-SBS31_440_56
SAMPLE-SBS31_440_57
SAMPLE-SBS31_440_58
SAMPLE-SBS31_440_59
SAMPLE-SBS31_440_6
SAMPLE-SBS31_440_60
SAMPLE-SBS31_440_61
SAMPLE-SBS31_440_62
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SAMPLE-SBS31_440_65
SAMPLE-SBS31_440_66
SAMPLE-SBS31_440_67
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SAMPLE-SBS31_440_69
SAMPLE-SBS31_440_7
SAMPLE-SBS31_440_70
SAMPLE-SBS31_440_71
SAMPLE-SBS31_440_72
SAMPLE-SBS31_440_73
SAMPLE-SBS31_440_74
SAMPLE-SBS31_440_75
SAMPLE-SBS31_440_76
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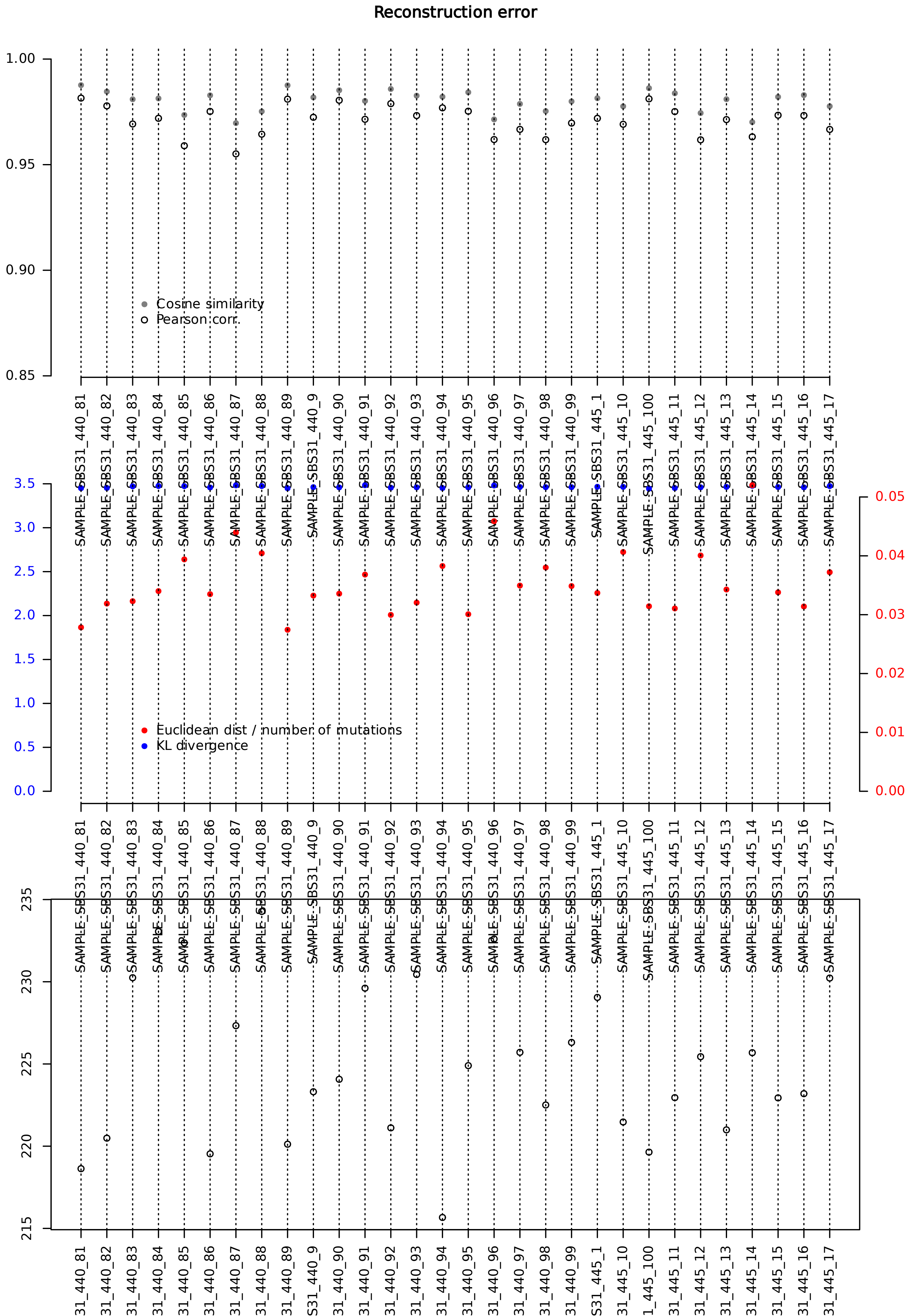
SAMPLE-SBS31_440_79
SAMPLE-SBS31_440_8
SAMPLE-SBS31_440_80


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.05
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
220
215
SAMPLE-SBS31_440_81
SAMPLE-SBS31_440_82
SAMPLE-SBS31_440_83
SAMPLE-SBS31_440_84
SAMPLE-SBS31_440_85
SAMPLE-SBS31_440_86
SAMPLE-SBS31_440_87
SAMPLE-SBS31_440_88
SAMPLE-SBS31_440_89
SAMPLE-SBS31_440_9
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SAMPLE-SBS31_440_94
SAMPLE-SBS31_440_95
SAMPLE-SBS31_440_96
SAMPLE-SBS31_440_97
SAMPLE-SBS31_440_98
SAMPLE-SBS31_440_99
SAMPLE-SBS31_445_1
SAMPLE-SBS31_445_10
SAMPLE-SBS31_445_100
SAMPLE-SBS31_445_11
SAMPLE-SBS31_445_12
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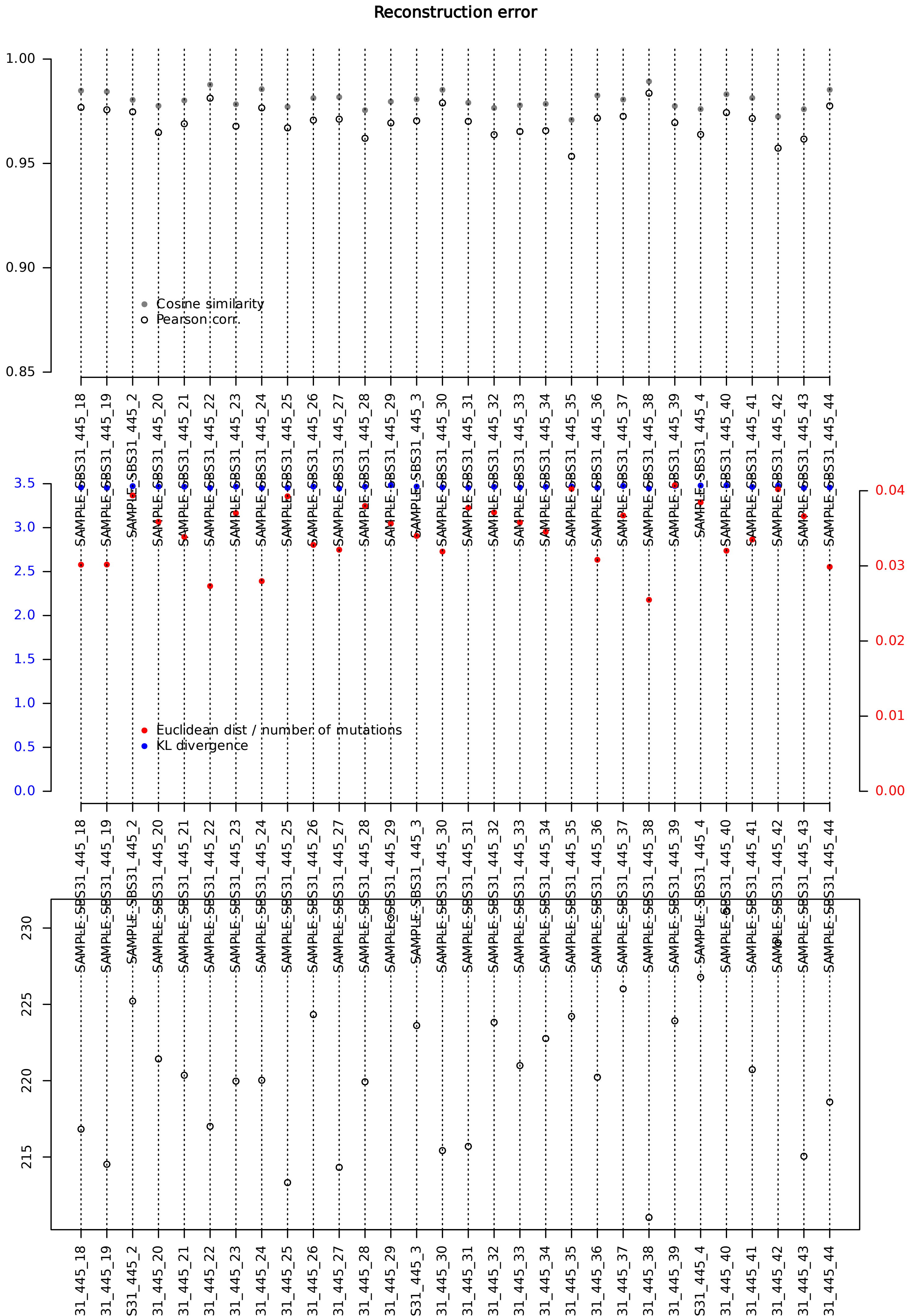
SAMPLE-SBS31_445_14
SAMPLE-SBS31_445_15
SAMPLE-SBS31_445_16
SAMPLE-SBS31_445_17


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
230
225
220
215
SAMPLE-SBS31_445_18
SAMPLE-SBS31_445_19
SAMPLE-SBS31_445_2
SAMPLE-SBS31_445_20
SAMPLE-SBS31_445_21
SAMPLE-SBS31_445_22
SAMPLE-SBS31_445_23
SAMPLE-SBS31_445_24
SAMPLE-SBS31_445_25
SAMPLE-SBS31_445_26
SAMPLE-SBS31_445_27
SAMPLE-SBS31_445_28
SAMPLE-SBS31_445_29
SAMPLE-SBS31_445_3
SAMPLE-SBS31_445_30
SAMPLE-SBS31_445_31
SAMPLE-SBS31_445_32
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SAMPLE-SBS31_445_34
SAMPLE-SBS31_445_35
SAMPLE-SBS31_445_36
SAMPLE-SBS31_445_37
SAMPLE-SBS31_445_38
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SAMPLE-SBS31_445_4
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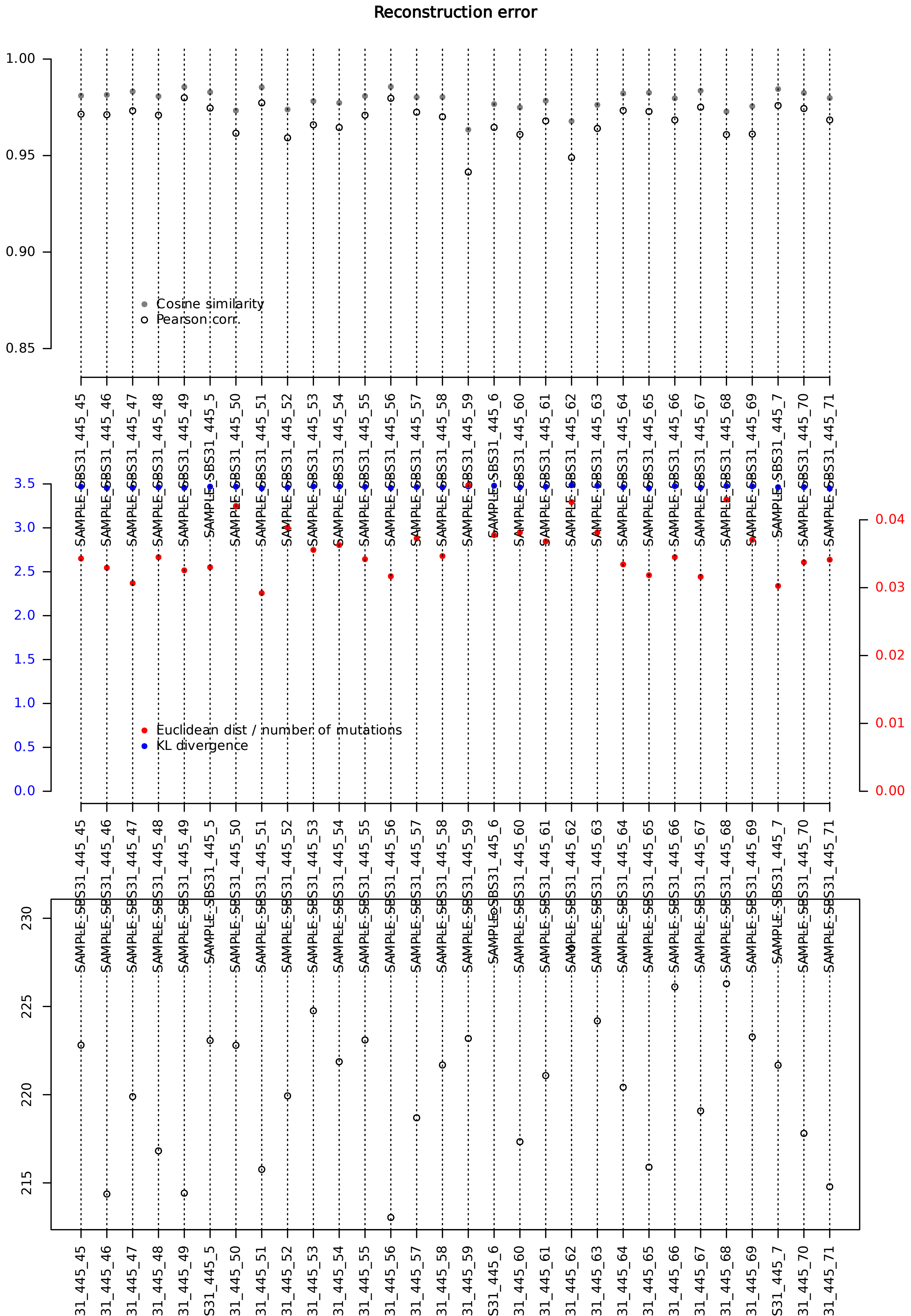
SAMPLE-SBS31_445_43
SAMPLE-SBS31_445_44


Reconstruction error
1.00
0.95
0.90
0.85
● Cosine similarity
○ Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
● Euclidean dist / number of mutations
● KL divergence
230
225
220
215
SAMPLE-SBS31_445_45
SAMPLE-SBS31_445_46
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SAMPLE-SBS31_445_48
SAMPLE-SBS31_445_49
SAMPLE-SBS31_445_5
SAMPLE-SBS31_445_50
SAMPLE-SBS31_445_51
SAMPLE-SBS31_445_52
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SAMPLE-SBS31_445_55
SAMPLE-SBS31_445_56
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SAMPLE-SBS31_445_58
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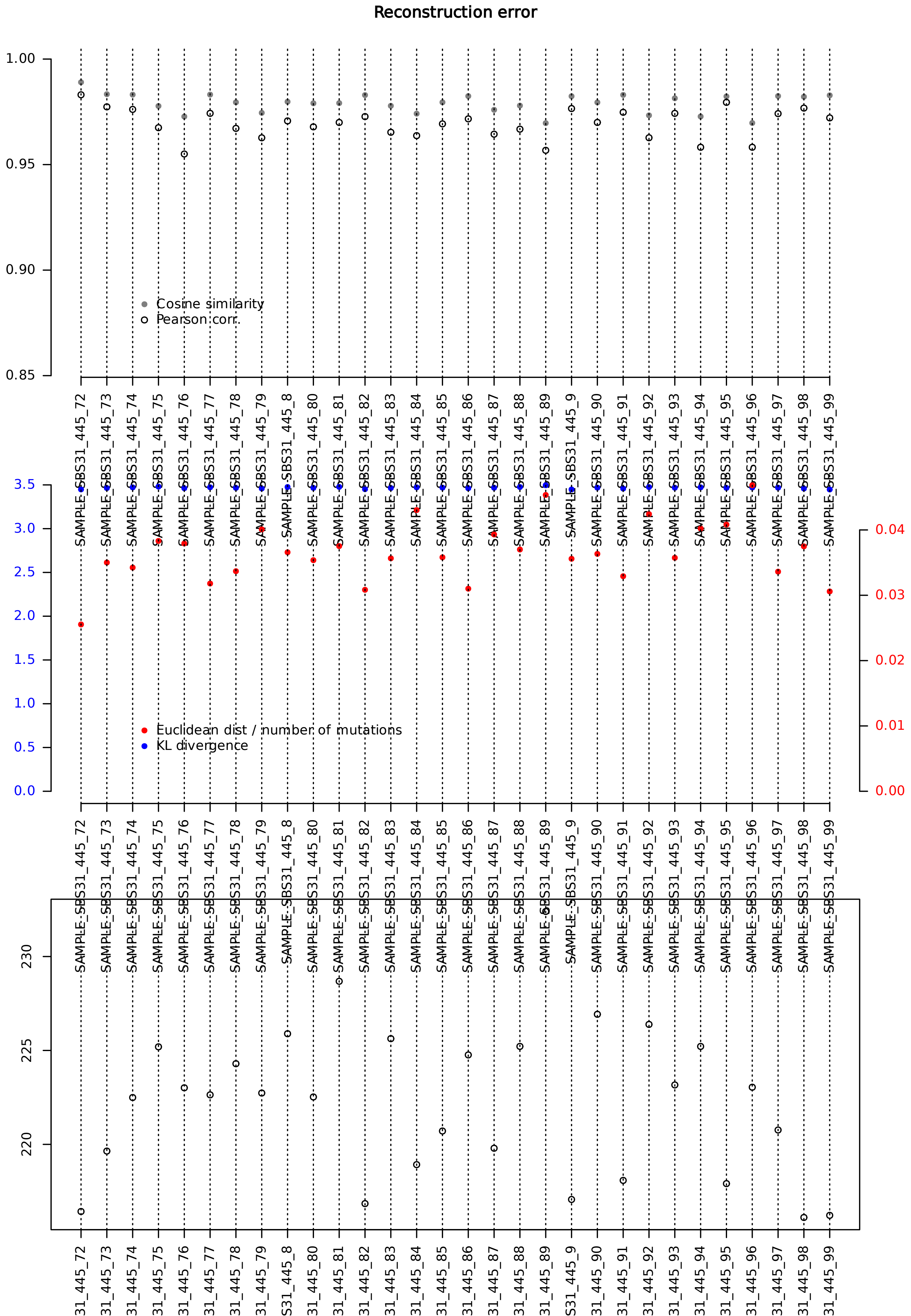
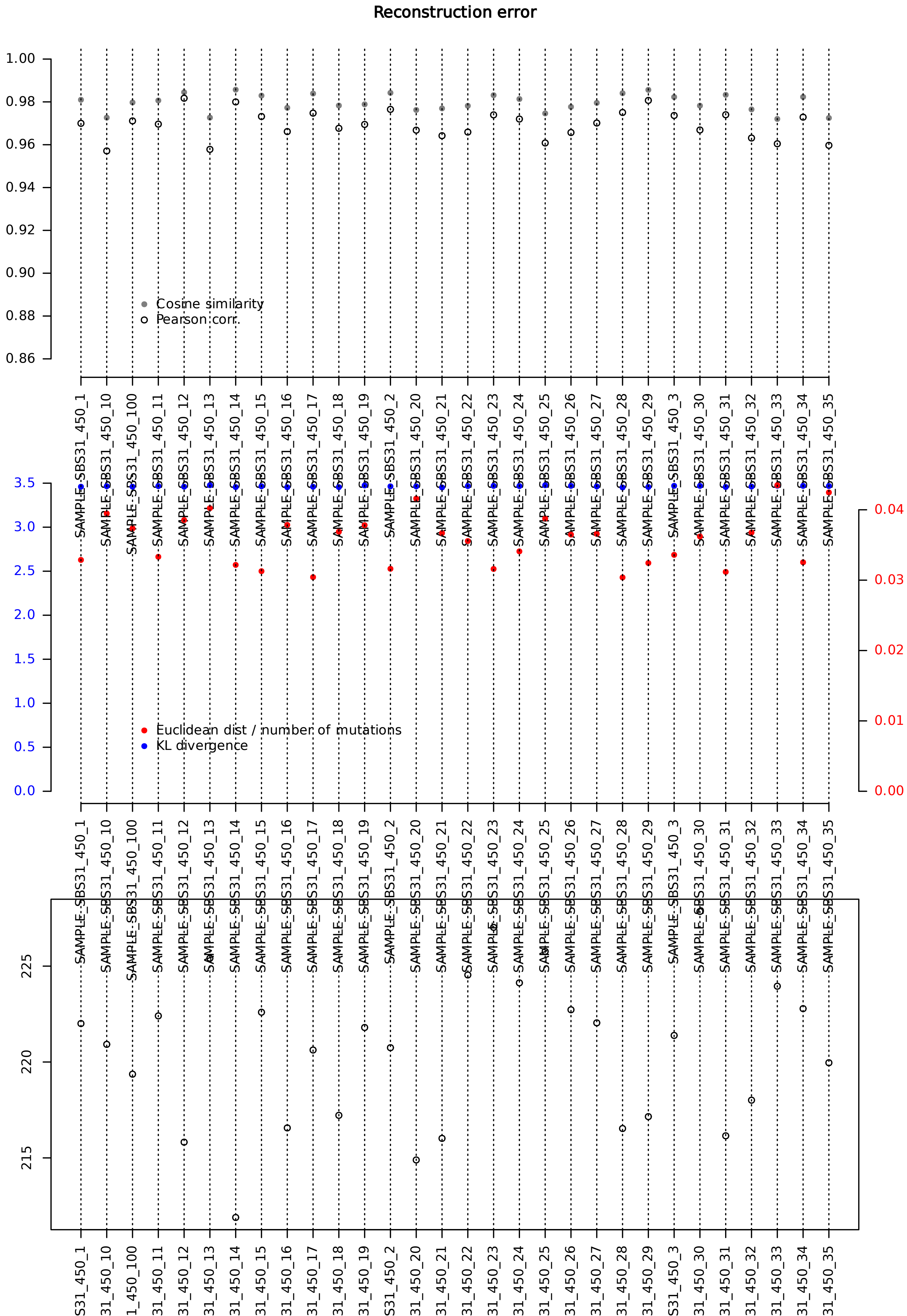
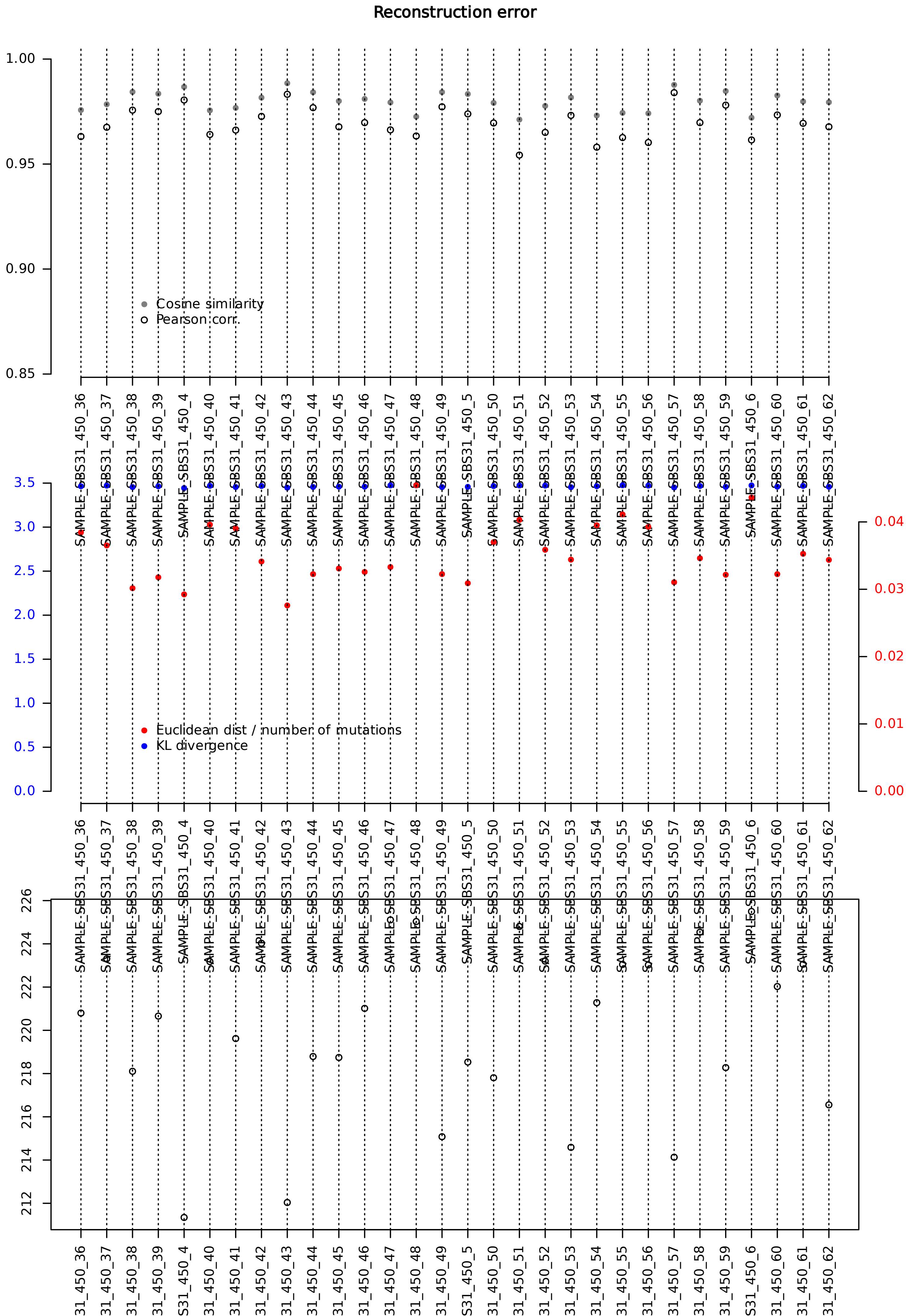
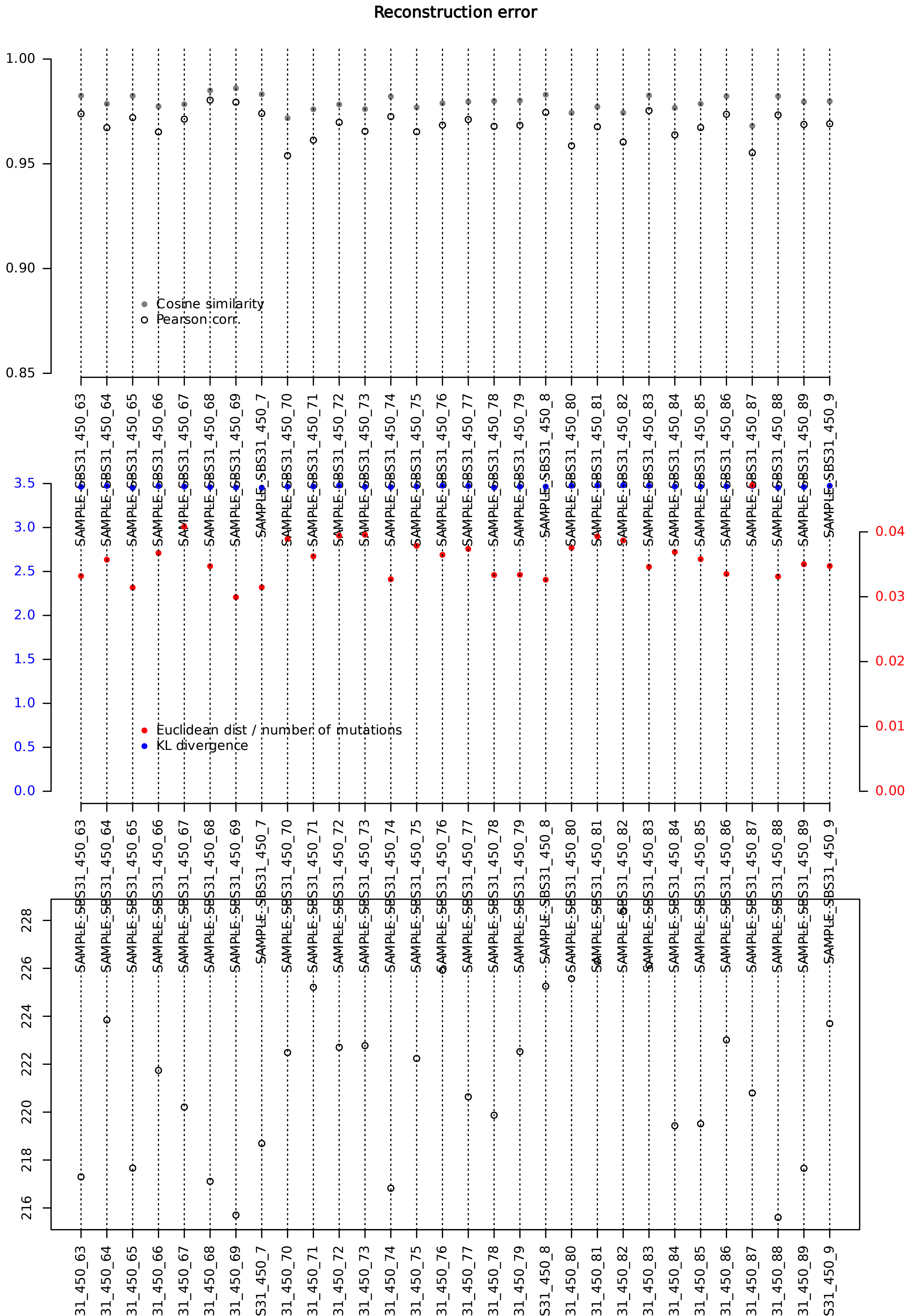
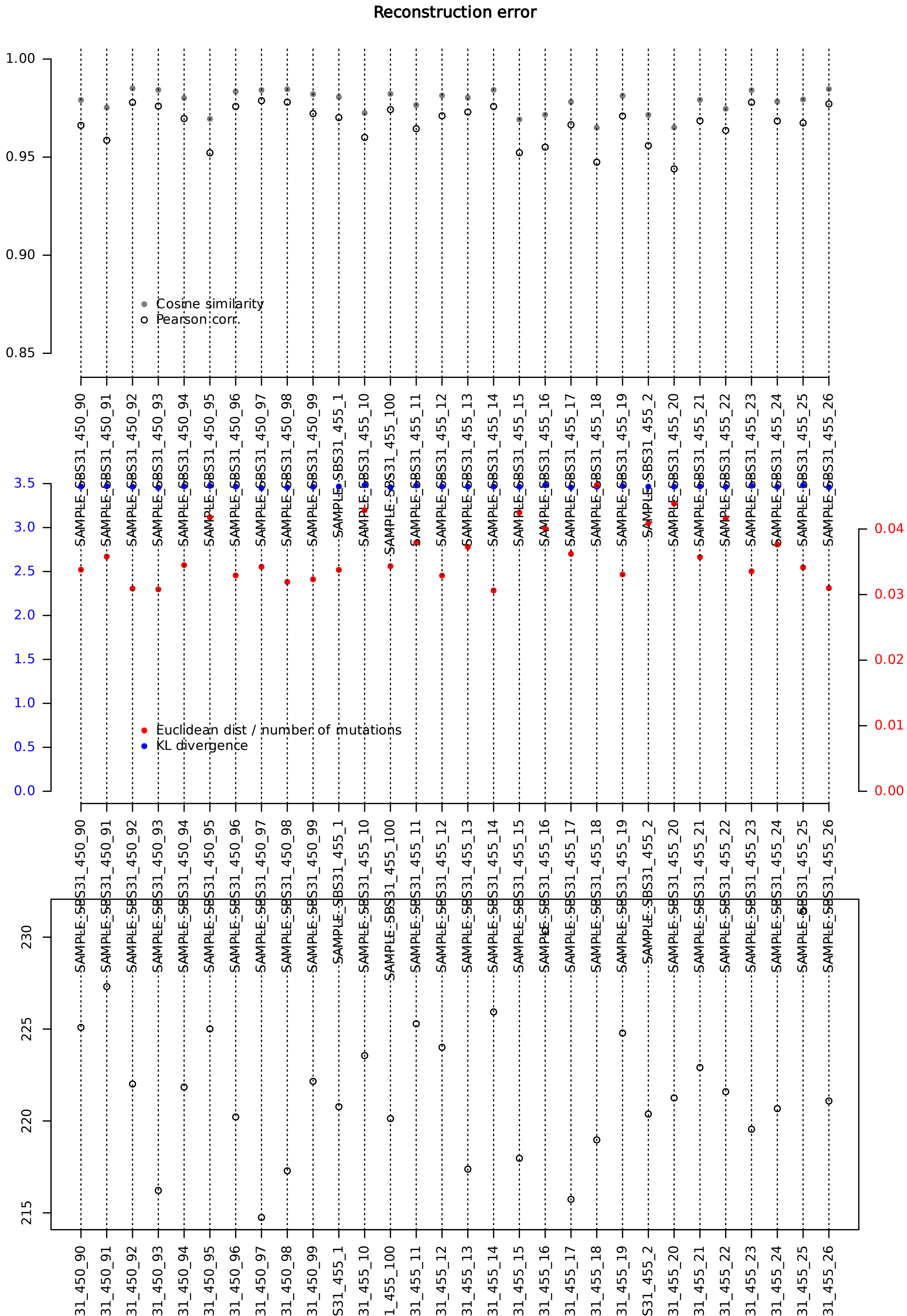
SAMPLE-SBS31_445_66
SAMPLE-SBS31_445_67
SAMPLE-SBS31_445_68
SAMPLE-SBS31_445_69
SAMPLE-SBS31_445_7
SAMPLE-SBS31_445_70
SAMPLE-SBS31_445_71

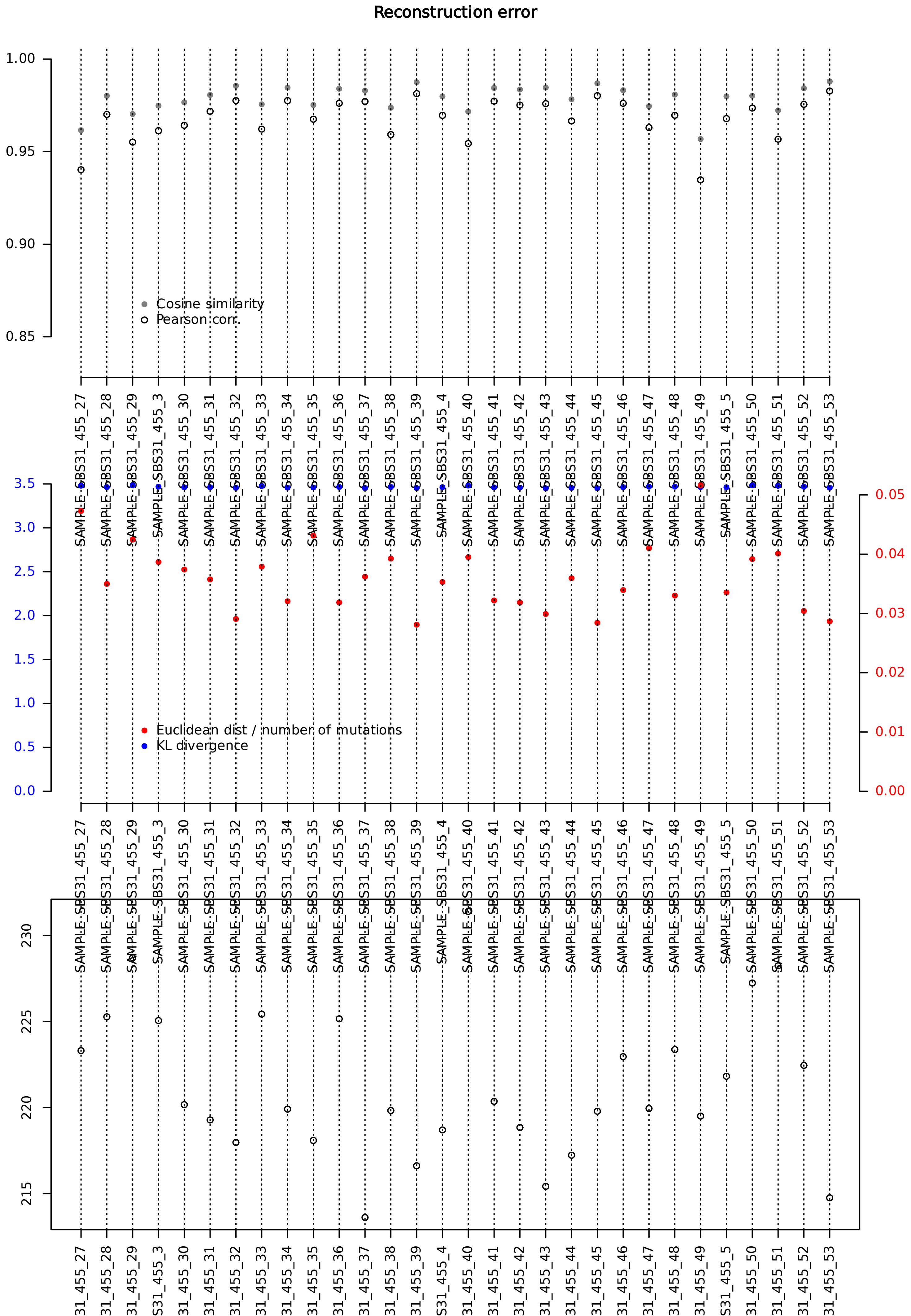

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
230
225
220
SAMPLE-SBS31_445_72
SAMPLE-SBS31_445_73
SAMPLE-SBS31_445_74
SAMPLE-SBS31_445_75
SAMPLE-SBS31_445_76
SAMPLE-SBS31_445_77
SAMPLE-SBS31_445_78
SAMPLE-SBS31_445_79
SAMPLE-SBS31_445_8
SAMPLE-SBS31_445_80
SAMPLE-SBS31_445_81
SAMPLE-SBS31_445_82
SAMPLE-SBS31_445_83
SAMPLE-SBS31_445_84
SAMPLE-SBS31_445_85
SAMPLE-SBS31_445_86
SAMPLE-SBS31_445_87
SAMPLE-SBS31_445_88
SAMPLE-SBS31_445_89
SAMPLE-SBS31_445_9
SAMPLE-SBS31_445_90
SAMPLE-SBS31_445_91
SAMPLE-SBS31_445_92
SAMPLE-SBS31_445_93
SAMPLE-SBS31_445_94
SAMPLE-SBS31_445_95
SAMPLE-SBS31_445_96
SAMPLE-SBS31_445_97
SAMPLE-SBS31_445_98
SAMPLE-SBS31_445_99


Reconstruction error
1.00
0.98
0.96
0.94
0.92
0.90
0.88
0.86
● Cosine similarity
○ Pearson corr.
SAMPLE-SBS31_450_1
SAMPLE-SBS31_450_10
SAMPLE-SBS31_450_100
SAMPLE-SBS31_450_11
SAMPLE-SBS31_450_12
SAMPLE-SBS31_450_13
SAMPLE-SBS31_450_14
SAMPLE-SBS31_450_15
SAMPLE-SBS31_450_16
SAMPLE-SBS31_450_17
SAMPLE-SBS31_450_18
SAMPLE-SBS31_450_19
SAMPLE-SBS31_450_2
SAMPLE-SBS31_450_20
SAMPLE-SBS31_450_21
SAMPLE-SBS31_450_22
SAMPLE-SBS31_450_23
SAMPLE-SBS31_450_24
SAMPLE-SBS31_450_25
SAMPLE-SBS31_450_26
SAMPLE-SBS31_450_27
SAMPLE-SBS31_450_28
SAMPLE-SBS31_450_29
SAMPLE-SBS31_450_3
SAMPLE-SBS31_450_30
SAMPLE-SBS31_450_31
SAMPLE-SBS31_450_32
SAMPLE-SBS31_450_33
SAMPLE-SBS31_450_34
SAMPLE-SBS31_450_35
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
● Euclidean dist / number of mutations
● KL divergence
225
220
215

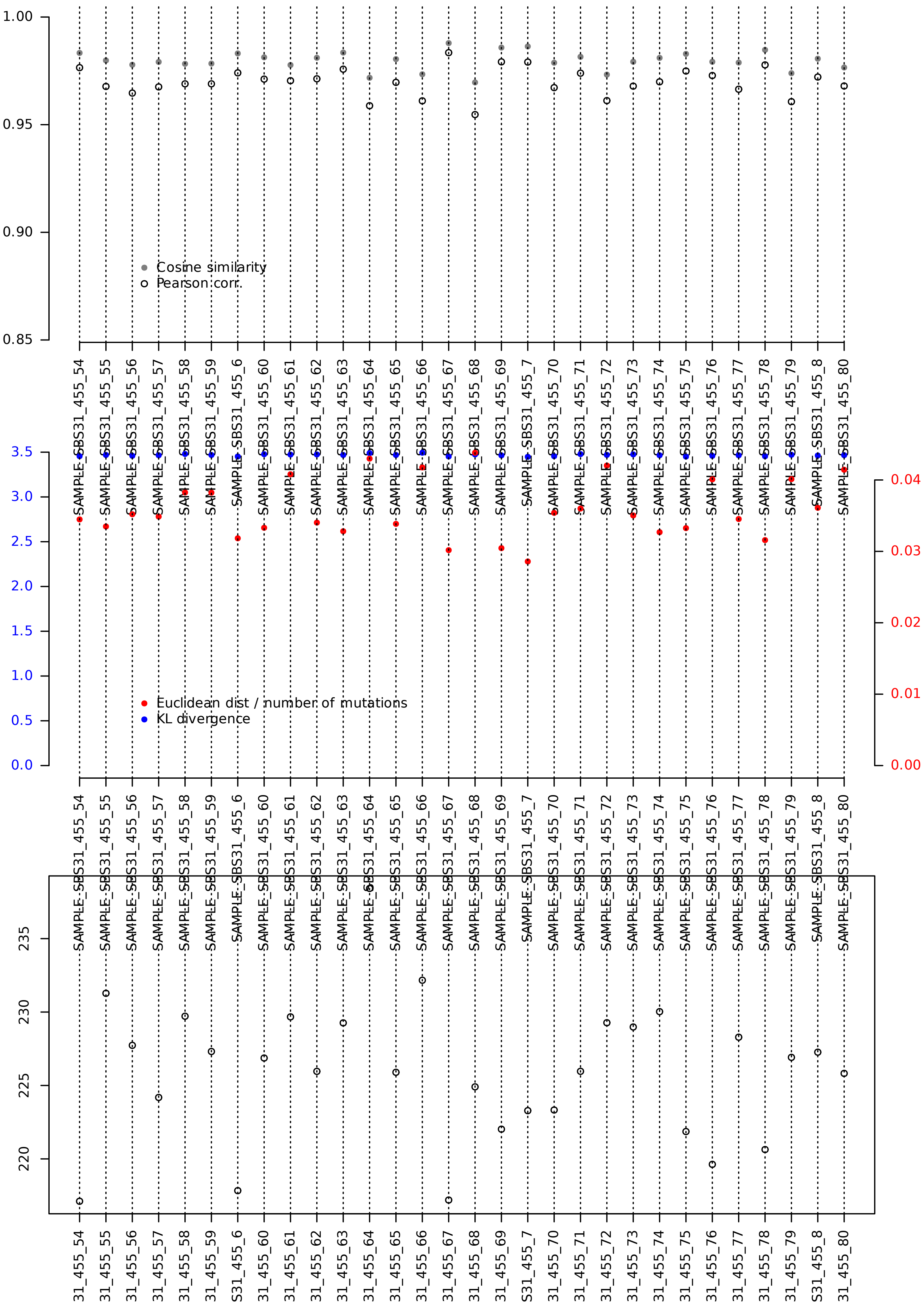

Reconstruction error

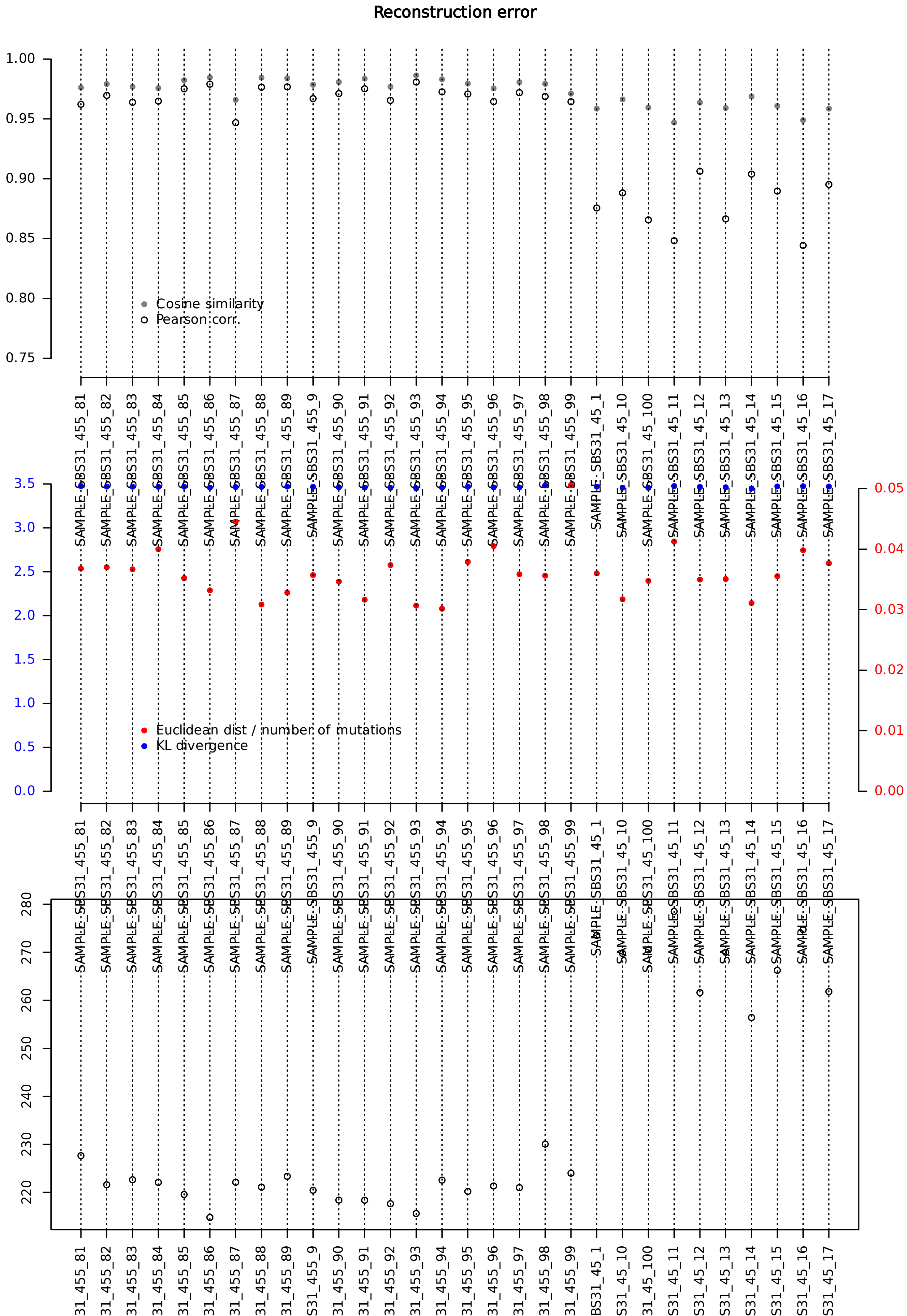

Reconstruction error

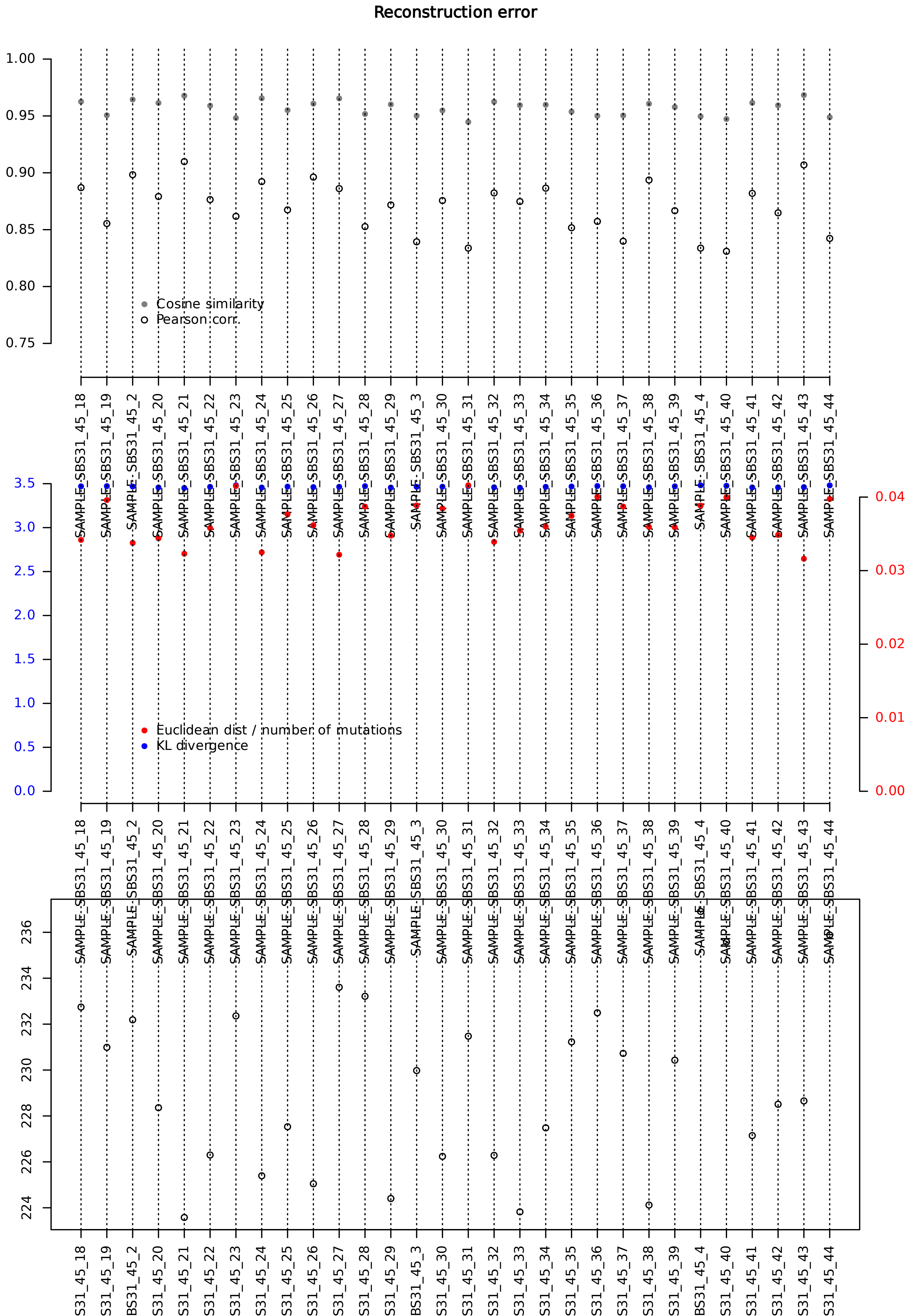

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
230
225
220
215
SAMPLE-SBS31_450_90
SAMPLE-SBS31_450_91
SAMPLE-SBS31_450_92
SAMPLE-SBS31_450_93
SAMPLE-SBS31_450_94
SAMPLE-SBS31_450_95
SAMPLE-SBS31_450_96
SAMPLE-SBS31_450_97
SAMPLE-SBS31_450_98
SAMPLE-SBS31_450_99
SAMPLE-SBS31_455_1
SAMPLE-SBS31_455_10
SAMPLE-SBS31_455_100
SAMPLE-SBS31_455_11
SAMPLE-SBS31_455_12
SAMPLE-SBS31_455_13
SAMPLE-SBS31_455_14
SAMPLE-SBS31_455_15
SAMPLE-SBS31_455_16
SAMPLE-SBS31_455_17
SAMPLE-SBS31_455_18
SAMPLE-SBS31_455_19
SAMPLE-SBS31_455_2
SAMPLE-SBS31_455_20
SAMPLE-SBS31_455_21
SAMPLE-SBS31_455_22
SAMPLE-SBS31_455_23
SAMPLE-SBS31_455_24
SAMPLE-SBS31_455_25
SAMPLE-SBS31_455_26


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.05
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
230
225
220
215
SAMPLE-SBS31_455_27
SAMPLE-SBS31_455_28
SAMPLE-SBS31_455_29
SAMPLE-SBS31_455_3
SAMPLE-SBS31_455_30
SAMPLE-SBS31_455_31
SAMPLE-SBS31_455_32
SAMPLE-SBS31_455_33
SAMPLE-SBS31_455_34
SAMPLE-SBS31_455_35
SAMPLE-SBS31_455_36
SAMPLE-SBS31_455_37
SAMPLE-SBS31_455_38
SAMPLE-SBS31_455_39
SAMPLE-SBS31_455_4
SAMPLE-SBS31_455_40
SAMPLE-SBS31_455_41
SAMPLE-SBS31_455_42
SAMPLE-SBS31_455_43
SAMPLE-SBS31_455_44
SAMPLE-SBS31_455_45
SAMPLE-SBS31_455_46
SAMPLE-SBS31_455_47
SAMPLE-SBS31_455_48
SAMPLE-SBS31_455_49
SAMPLE-SBS31_455_5
SAMPLE-SBS31_455_50
SAMPLE-SBS31_455_51
SAMPLE-SBS31_455_52
SAMPLE-SBS31_455_53

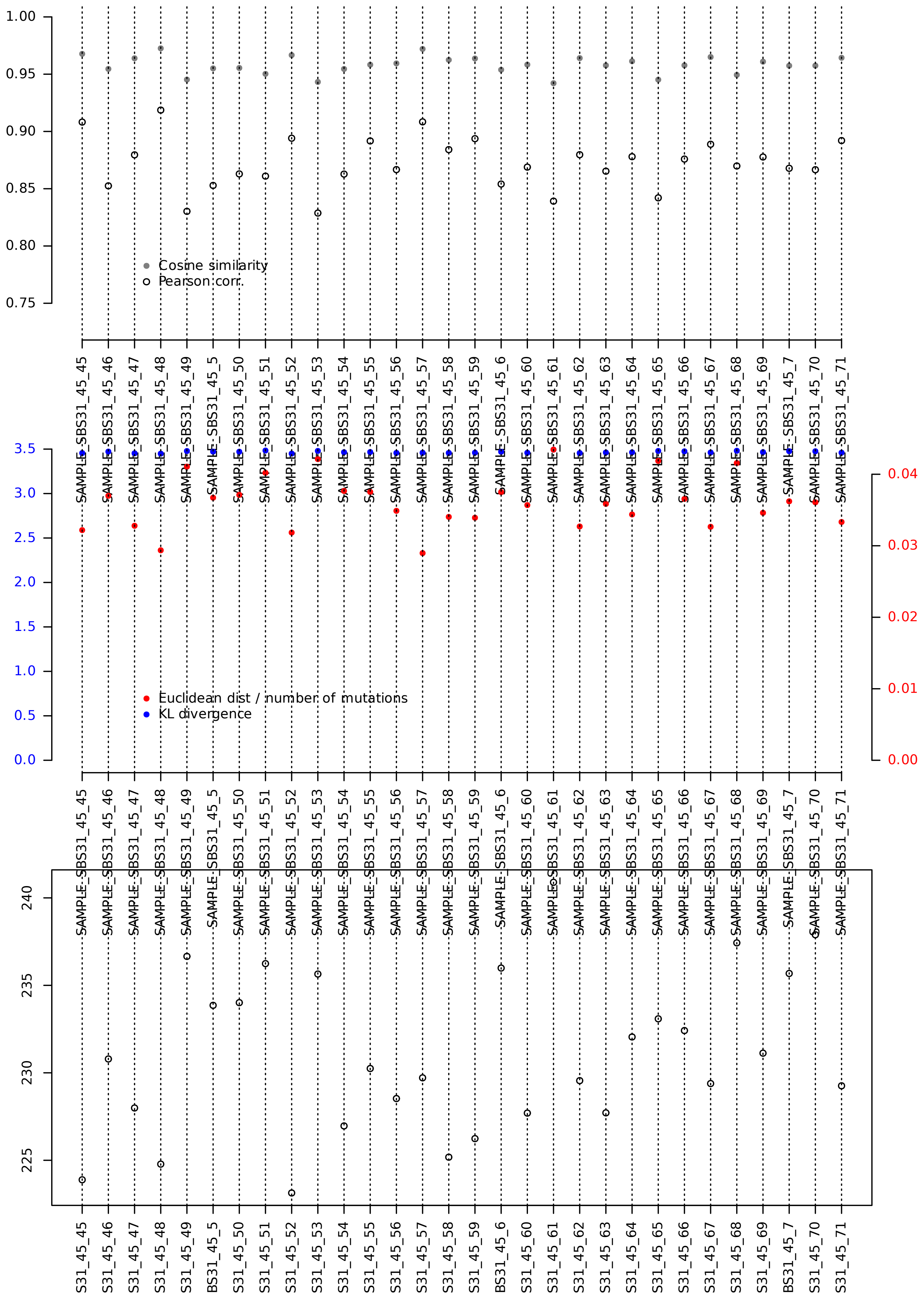
Reconstruction error

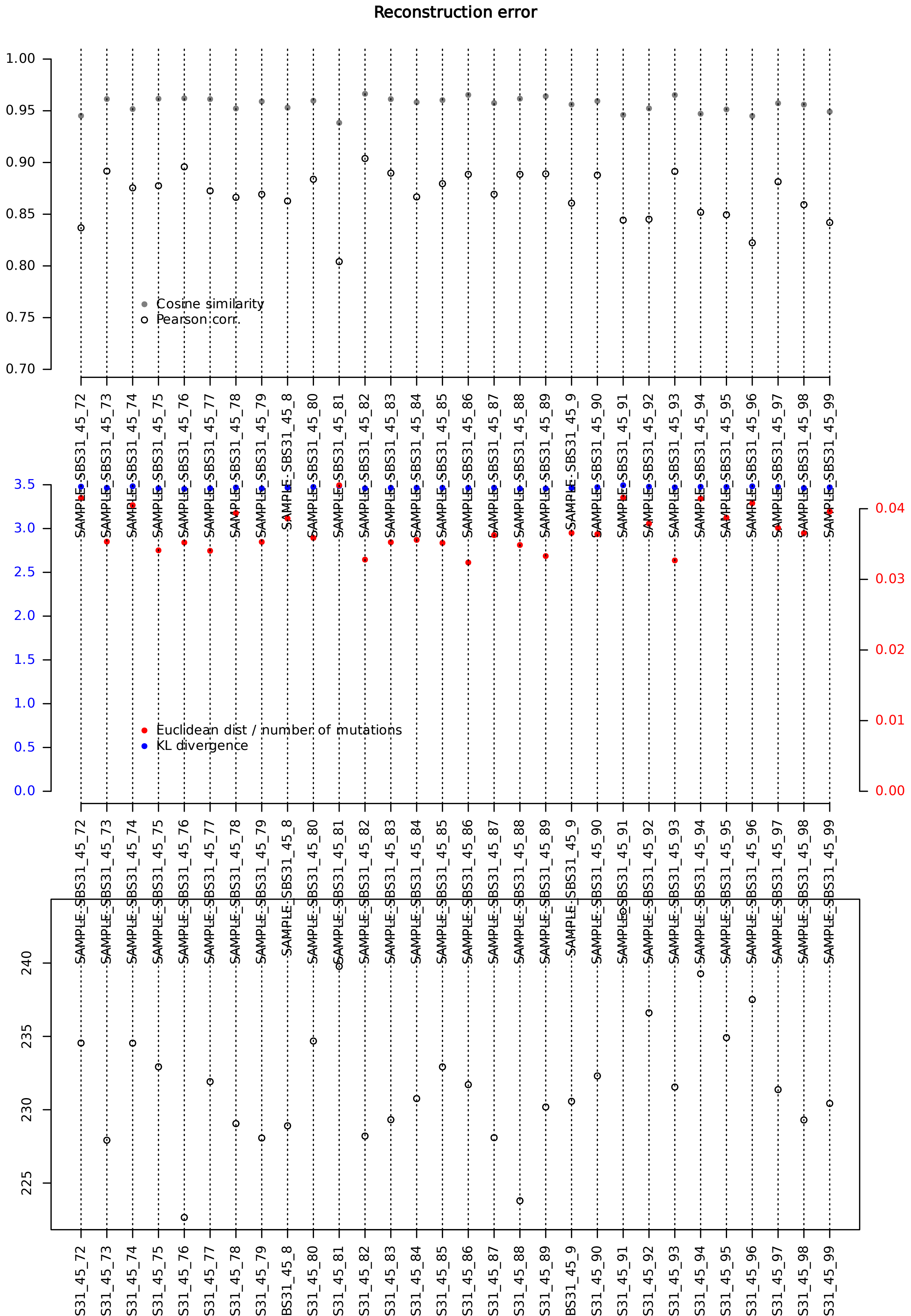


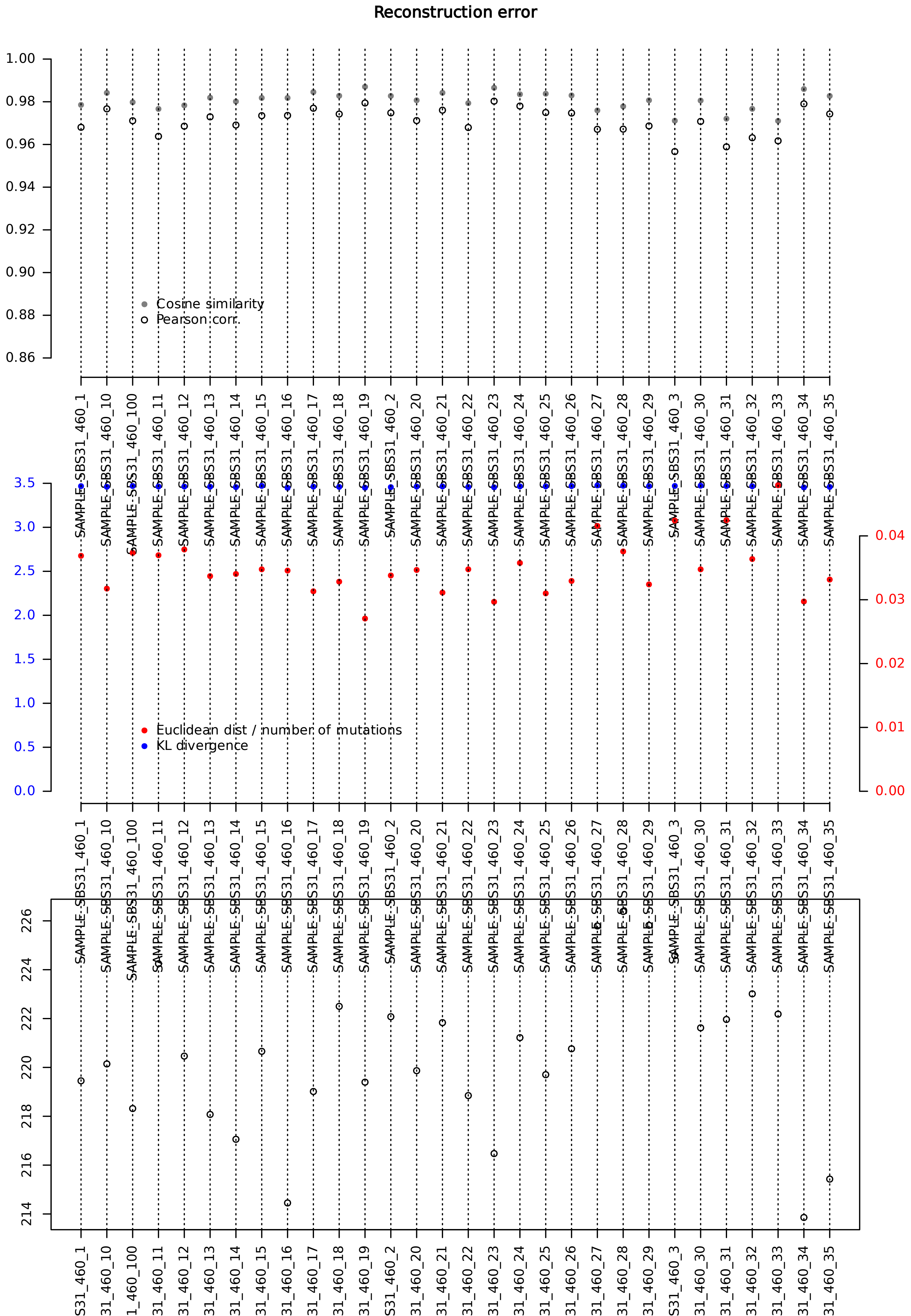

Reconstruction error
1.00
0.95
0.90
0.85
0.80
0.75
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.05
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
280
270
260
250
240
230
220
SAMPLE-SBS31_455_81
SAMPLE-SBS31_455_82
SAMPLE-SBS31_455_83
SAMPLE-SBS31_455_84
SAMPLE-SBS31_455_85
SAMPLE-SBS31_455_86
SAMPLE-SBS31_455_87
SAMPLE-SBS31_455_88
SAMPLE-SBS31_455_89
SAMPLE-SBS31_455_9
SAMPLE-SBS31_455_90
SAMPLE-SBS31_455_91
SAMPLE-SBS31_455_92
SAMPLE-SBS31_455_93
SAMPLE-SBS31_455_94
SAMPLE-SBS31_455_95
SAMPLE-SBS31_455_96
SAMPLE-SBS31_455_97
SAMPLE-SBS31_455_98
SAMPLE-SBS31_455_99
SAMPLE-SBS31_45_1
SAMPLE-SBS31_45_10
SAMPLE-SBS31_45_100
SAMPLE-SBS31_45_11
SAMPLE-SBS31_45_12
SAMPLE-SBS31_45_13
SAMPLE-SBS31_45_14
SAMPLE-SBS31_45_15
SAMPLE-SBS31_45_16
SAMPLE-SBS31_45_17

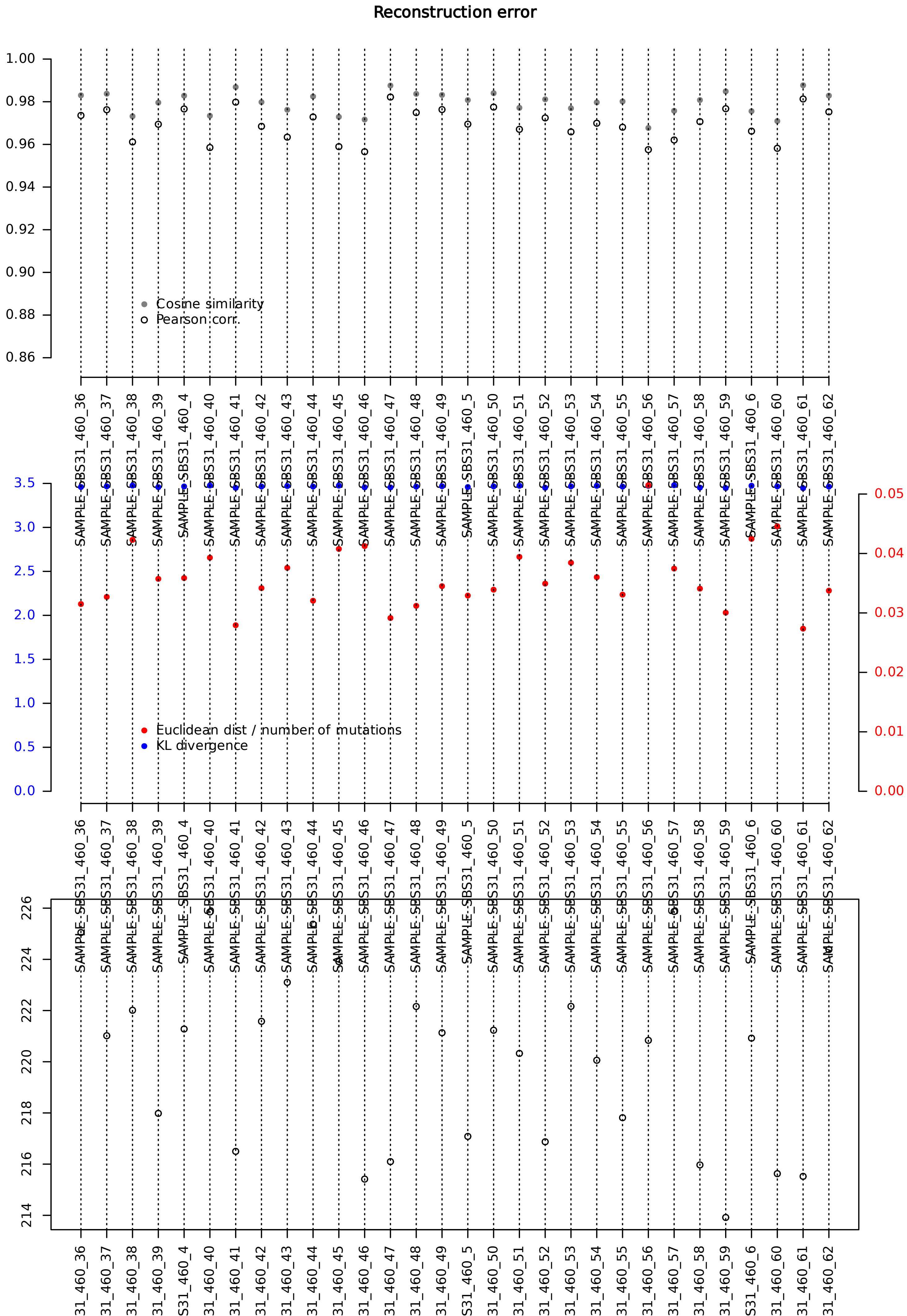

Reconstruction error
1.00
0.95
0.90
0.85
0.80
0.75
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
236
234
232
230
228
226
224
SAMPLE-SBS31_45_18
SAMPLE-SBS31_45_19
SAMPLE-SBS31_45_2
SAMPLE-SBS31_45_20
SAMPLE-SBS31_45_21
SAMPLE-SBS31_45_22
SAMPLE-SBS31_45_23
SAMPLE-SBS31_45_24
SAMPLE-SBS31_45_25
SAMPLE-SBS31_45_26
SAMPLE-SBS31_45_27
SAMPLE-SBS31_45_28
SAMPLE-SBS31_45_29
SAMPLE-SBS31_45_3
SAMPLE-SBS31_45_30
SAMPLE-SBS31_45_31
SAMPLE-SBS31_45_32
SAMPLE-SBS31_45_33
SAMPLE-SBS31_45_34
SAMPLE-SBS31_45_35
SAMPLE-SBS31_45_36
SAMPLE-SBS31_45_37
SAMPLE-SBS31_45_38
SAMPLE-SBS31_45_39
SAMPLE-SBS31_45_4
SAMPLE-SBS31_45_40
SAMPLE-SBS31_45_41
SAMPLE-SBS31_45_42
SAMPLE-SBS31_45_43
SAMPLE-SBS31_45_44

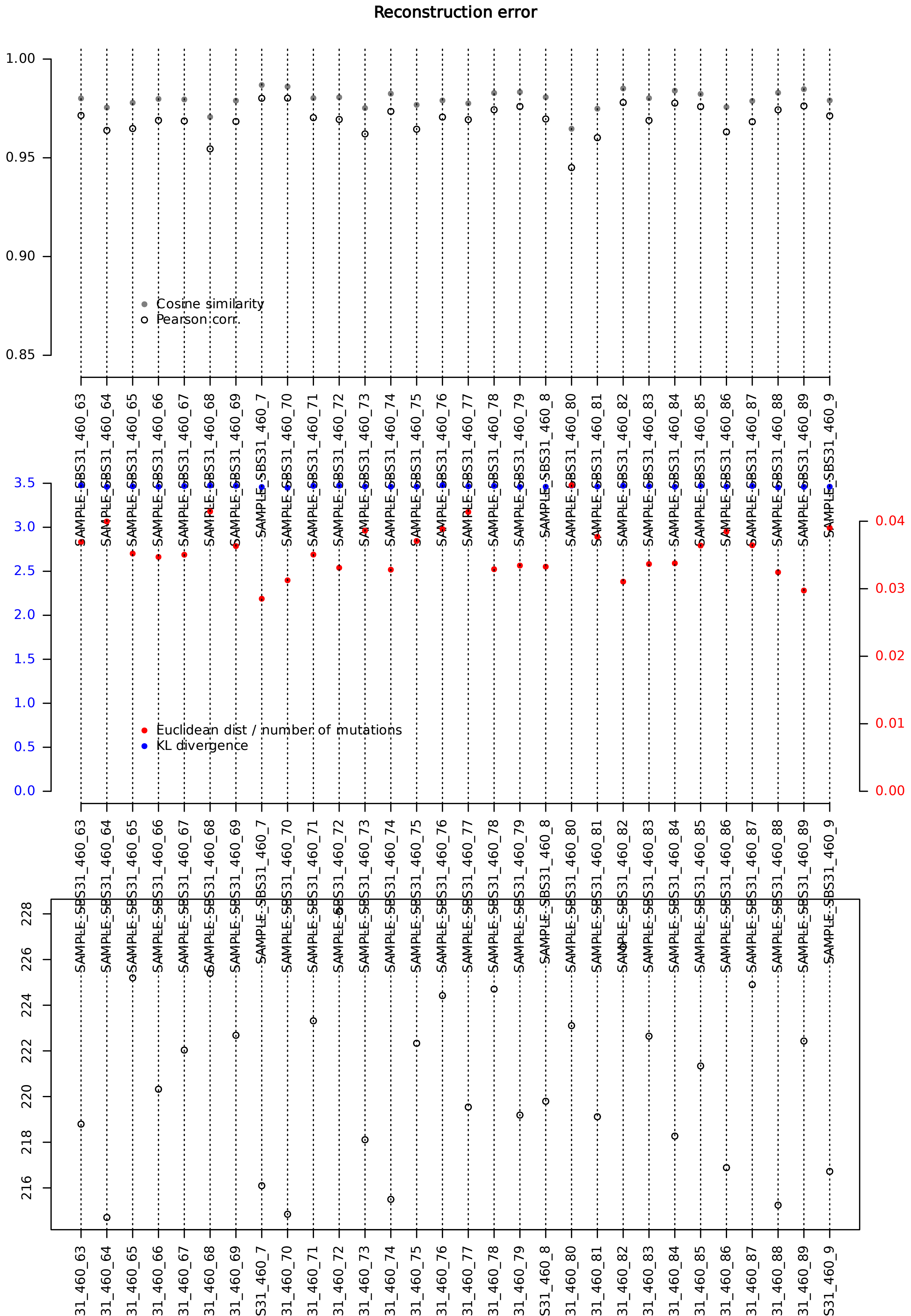
Reconstruction error

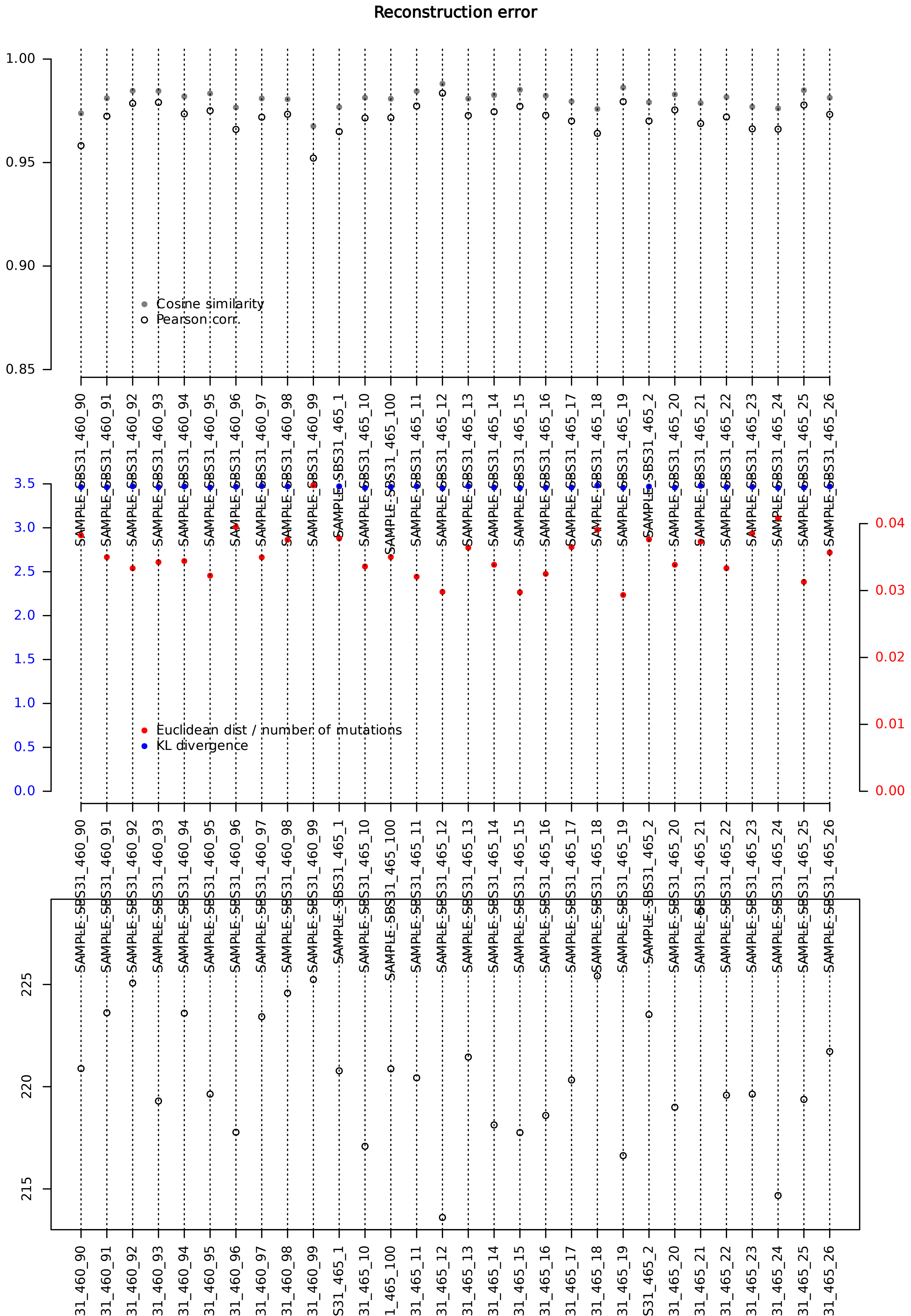


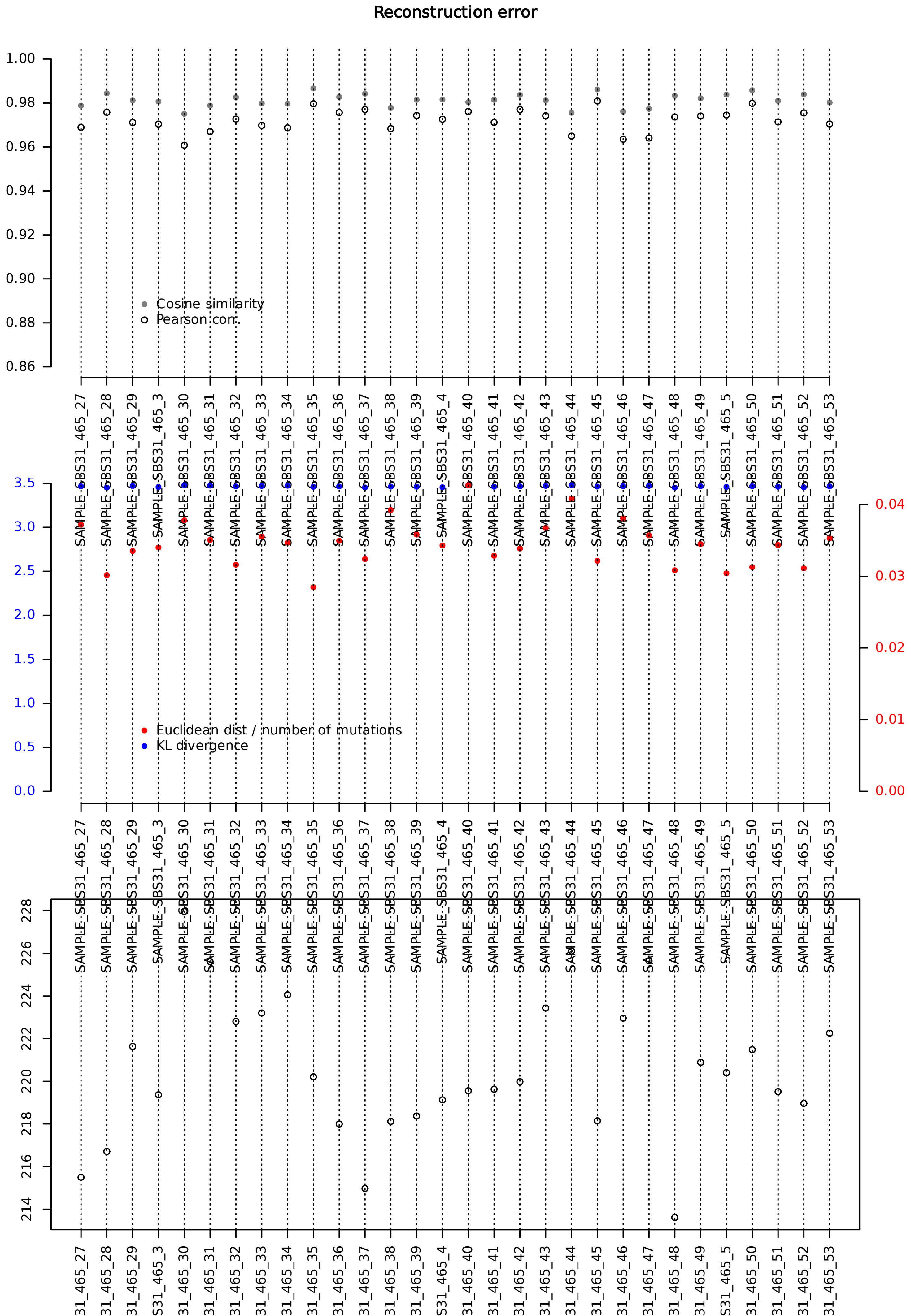

Reconstruction error
1.00
0.95
0.90
0.85
0.80
0.75
0.70
● Cosine similarity
○ Pearson corr.
SAMPLE-SBS31_45_72
SAMPLE-SBS31_45_73
SAMPLE-SBS31_45_74
SAMPLE-SBS31_45_75
SAMPLE-SBS31_45_76
SAMPLE-SBS31_45_77
SAMPLE-SBS31_45_78
SAMPLE-SBS31_45_79
SAMPLE-SBS31_45_8
SAMPLE-SBS31_45_80
SAMPLE-SBS31_45_81
SAMPLE-SBS31_45_82
SAMPLE-SBS31_45_83
SAMPLE-SBS31_45_84
SAMPLE-SBS31_45_85
SAMPLE-SBS31_45_86
SAMPLE-SBS31_45_87
SAMPLE-SBS31_45_88
SAMPLE-SBS31_45_89
SAMPLE-SBS31_45_9
SAMPLE-SBS31_45_90
SAMPLE-SBS31_45_91
SAMPLE-SBS31_45_92
SAMPLE-SBS31_45_93
SAMPLE-SBS31_45_94
SAMPLE-SBS31_45_95
SAMPLE-SBS31_45_96
SAMPLE-SBS31_45_97
SAMPLE-SBS31_45_98
SAMPLE-SBS31_45_99
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
● Euclidean dist / number of mutations
● KL divergence
240
235
230
225

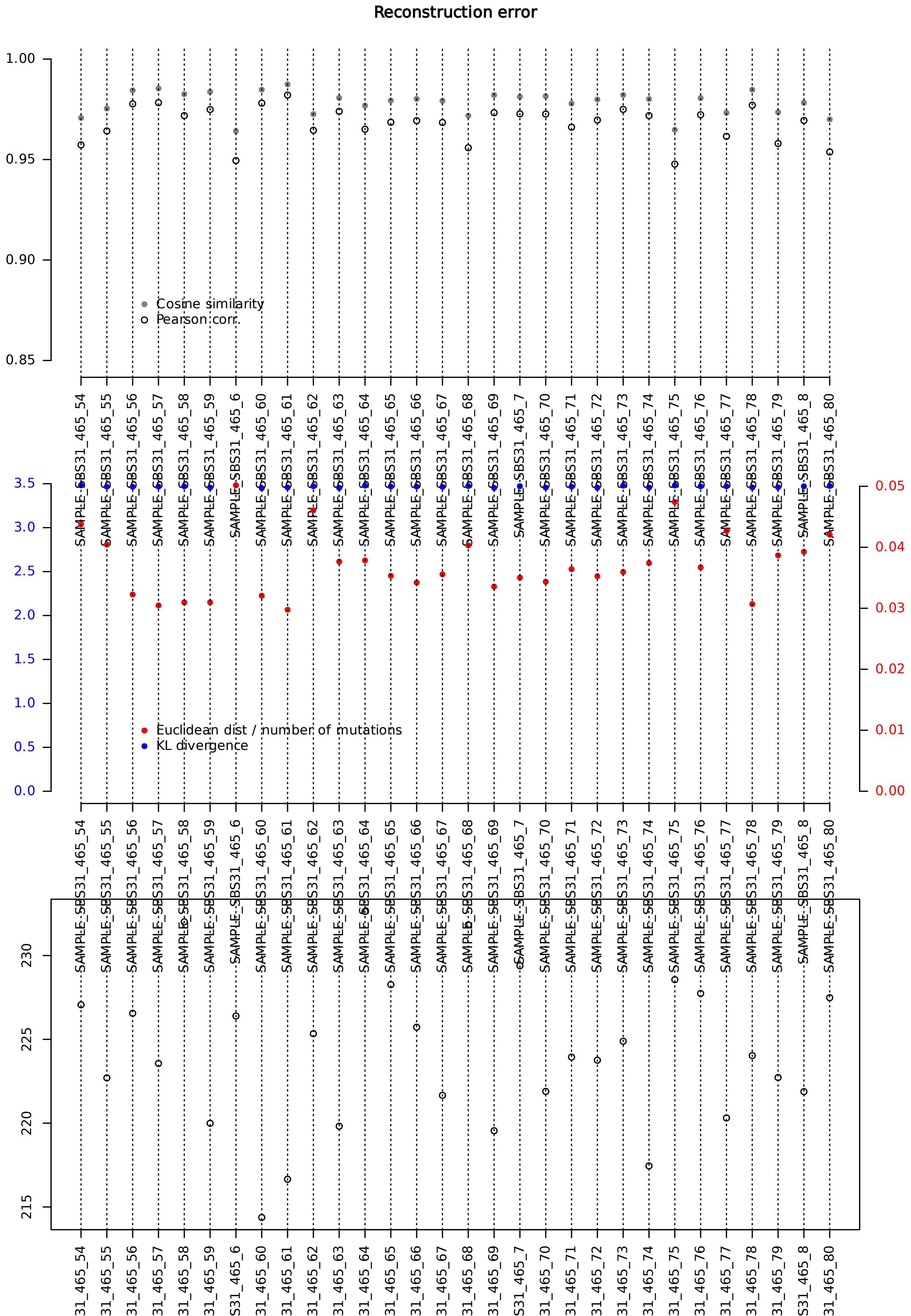

Reconstruction error
1.00
0.98
0.96
0.94
0.92
0.90
0.88
0.86
● Cosine similarity
○ Pearson corr.
SAMPLE-SBS31_460_1
SAMPLE-SBS31_460_10
SAMPLE-SBS31_460_100
SAMPLE-SBS31_460_11
SAMPLE-SBS31_460_12
SAMPLE-SBS31_460_13
SAMPLE-SBS31_460_14
SAMPLE-SBS31_460_15
SAMPLE-SBS31_460_16
SAMPLE-SBS31_460_17
SAMPLE-SBS31_460_18
SAMPLE-SBS31_460_19
SAMPLE-SBS31_460_2
SAMPLE-SBS31_460_20
SAMPLE-SBS31_460_21
SAMPLE-SBS31_460_22
SAMPLE-SBS31_460_23
SAMPLE-SBS31_460_24
SAMPLE-SBS31_460_25
SAMPLE-SBS31_460_26
SAMPLE-SBS31_460_27
SAMPLE-SBS31_460_28
SAMPLE-SBS31_460_29
SAMPLE-SBS31_460_3
SAMPLE-SBS31_460_30
SAMPLE-SBS31_460_31
SAMPLE-SBS31_460_32
SAMPLE-SBS31_460_33
SAMPLE-SBS31_460_34
SAMPLE-SBS31_460_35
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
● Euclidean dist / number of mutations
● KL divergence
226
224
222
220
218
216
214

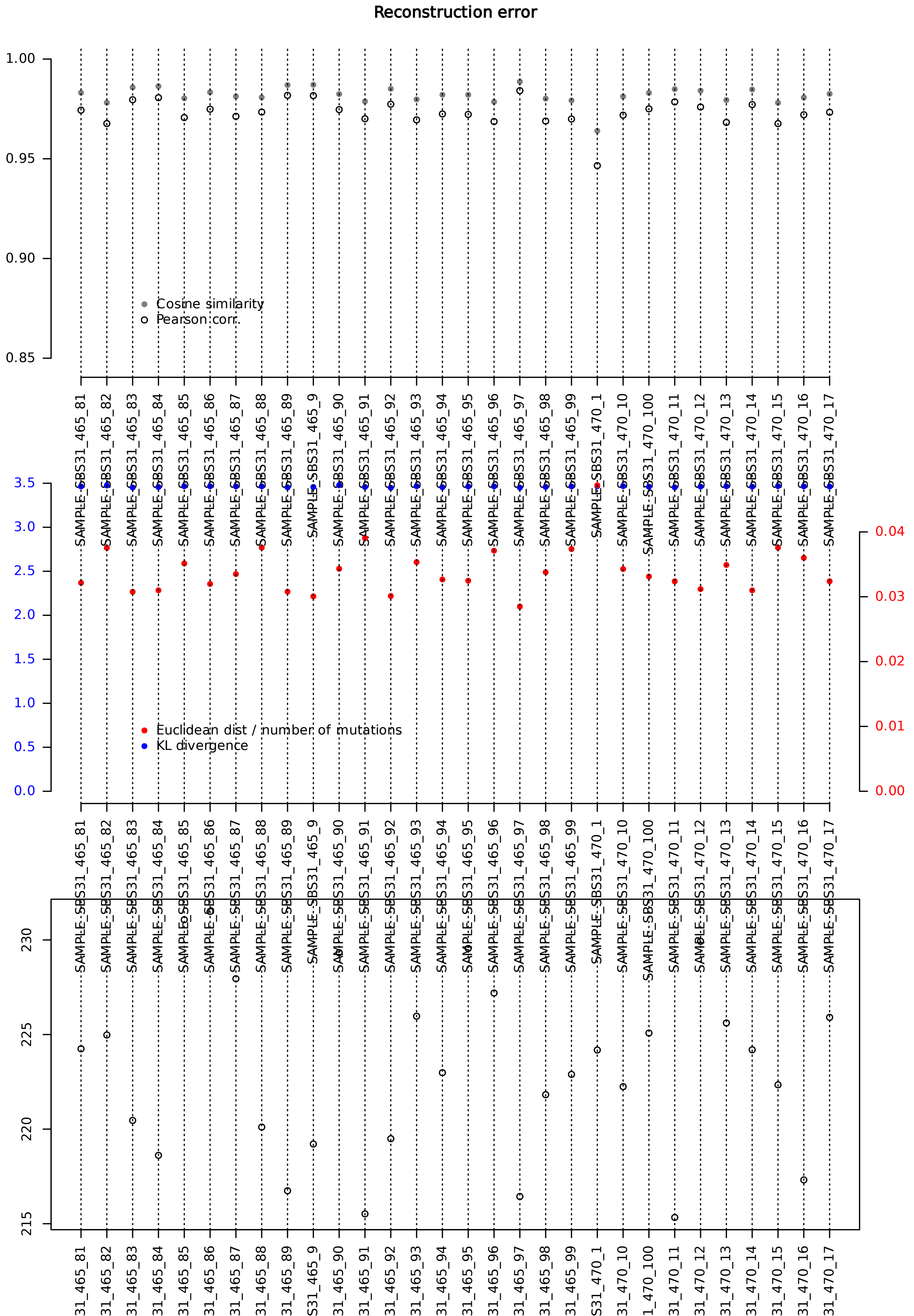

Reconstruction error
1.00
0.98
0.96
0.94
0.92
0.90
0.88
0.86
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.05
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
226
224
222
220
218
216
214
SAMPLE-SBS31_460_36
SAMPLE-SBS31_460_37
SAMPLE-SBS31_460_38
SAMPLE-SBS31_460_39
SAMPLE-SBS31_460_4
SAMPLE-SBS31_460_40
SAMPLE-SBS31_460_41
SAMPLE-SBS31_460_42
SAMPLE-SBS31_460_43
SAMPLE-SBS31_460_44
SAMPLE-SBS31_460_45
SAMPLE-SBS31_460_46
SAMPLE-SBS31_460_47
SAMPLE-SBS31_460_48
SAMPLE-SBS31_460_49
SAMPLE-SBS31_460_5
SAMPLE-SBS31_460_50
SAMPLE-SBS31_460_51
SAMPLE-SBS31_460_52
SAMPLE-SBS31_460_53
SAMPLE-SBS31_460_54
SAMPLE-SBS31_460_55
SAMPLE-SBS31_460_56
SAMPLE-SBS31_460_57
SAMPLE-SBS31_460_58
SAMPLE-SBS31_460_59
SAMPLE-SBS31_460_6
SAMPLE-SBS31_460_60
SAMPLE-SBS31_460_61
SAMPLE-SBS31_460_62


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
228
226
224
222
220
218
216
SAMPLE-SBS31_460_63
SAMPLE-SBS31_460_64
SAMPLE-SBS31_460_65
SAMPLE-SBS31_460_66
SAMPLE-SBS31_460_67
SAMPLE-SBS31_460_68
SAMPLE-SBS31_460_69
SAMPLE-SBS31_460_7
SAMPLE-SBS31_460_70
SAMPLE-SBS31_460_71
SAMPLE-SBS31_460_72
SAMPLE-SBS31_460_73
SAMPLE-SBS31_460_74
SAMPLE-SBS31_460_75
SAMPLE-SBS31_460_76
SAMPLE-SBS31_460_77
SAMPLE-SBS31_460_78
SAMPLE-SBS31_460_79
SAMPLE-SBS31_460_8
SAMPLE-SBS31_460_80
SAMPLE-SBS31_460_81
SAMPLE-SBS31_460_82
SAMPLE-SBS31_460_83
SAMPLE-SBS31_460_84
SAMPLE-SBS31_460_85
SAMPLE-SBS31_460_86
SAMPLE-SBS31_460_87
SAMPLE-SBS31_460_88
SAMPLE-SBS31_460_89
SAMPLE-SBS31_460_9

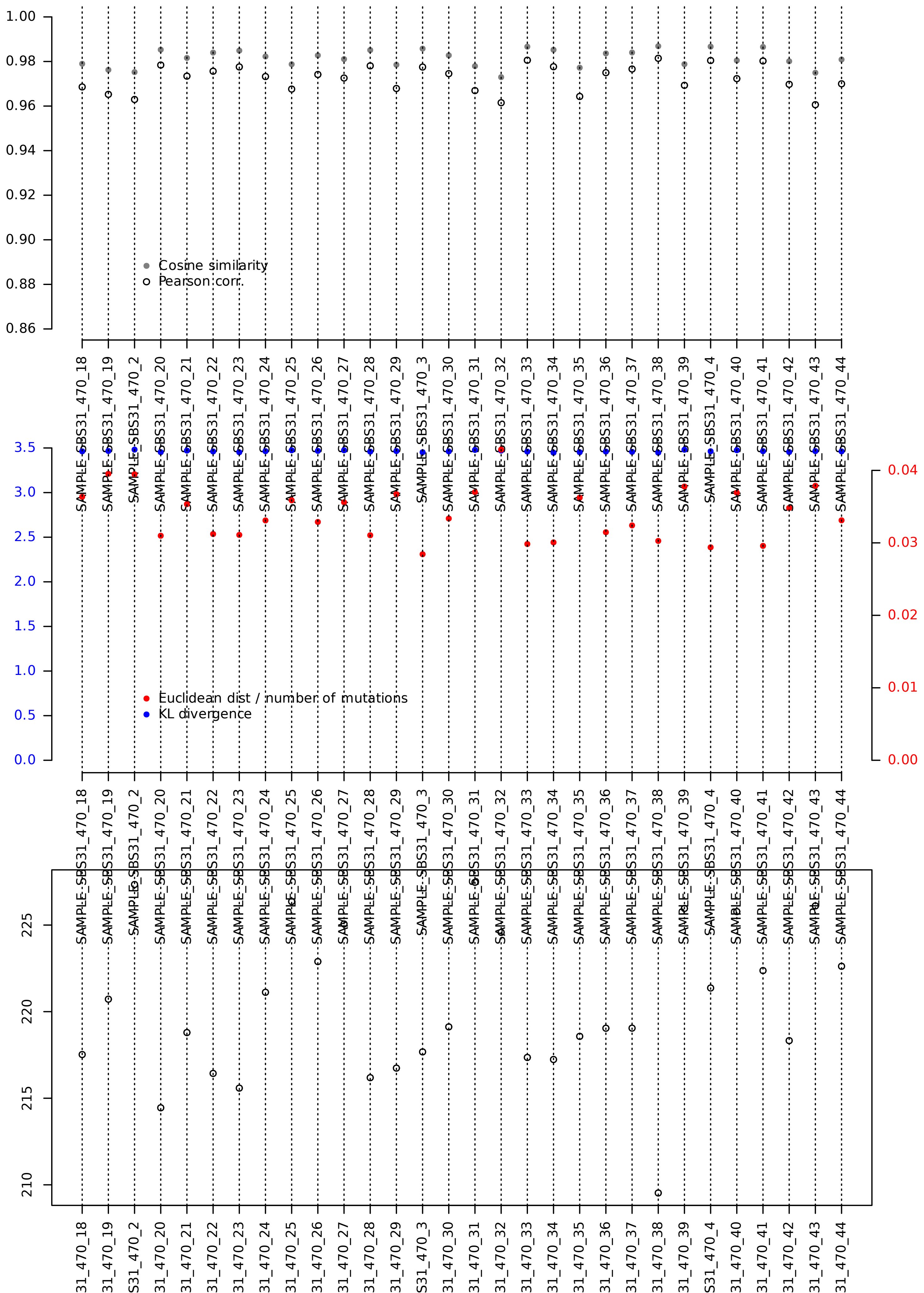

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
225
220
215
SAMPLE-SBS31_460_90
SAMPLE-SBS31_460_91
SAMPLE-SBS31_460_92
SAMPLE-SBS31_460_93
SAMPLE-SBS31_460_94
SAMPLE-SBS31_460_95
SAMPLE-SBS31_460_96
SAMPLE-SBS31_460_97
SAMPLE-SBS31_460_98
SAMPLE-SBS31_460_99
SAMPLE-SBS31_465_1
SAMPLE-SBS31_465_10
SAMPLE-SBS31_465_100
SAMPLE-SBS31_465_11
SAMPLE-SBS31_465_12
SAMPLE-SBS31_465_13
SAMPLE-SBS31_465_14
SAMPLE-SBS31_465_15
SAMPLE-SBS31_465_16
SAMPLE-SBS31_465_17
SAMPLE-SBS31_465_18
SAMPLE-SBS31_465_19
SAMPLE-SBS31_465_2
SAMPLE-SBS31_465_20
SAMPLE-SBS31_465_21
SAMPLE-SBS31_465_22
SAMPLE-SBS31_465_23
SAMPLE-SBS31_465_24
SAMPLE-SBS31_465_25
SAMPLE-SBS31_465_26

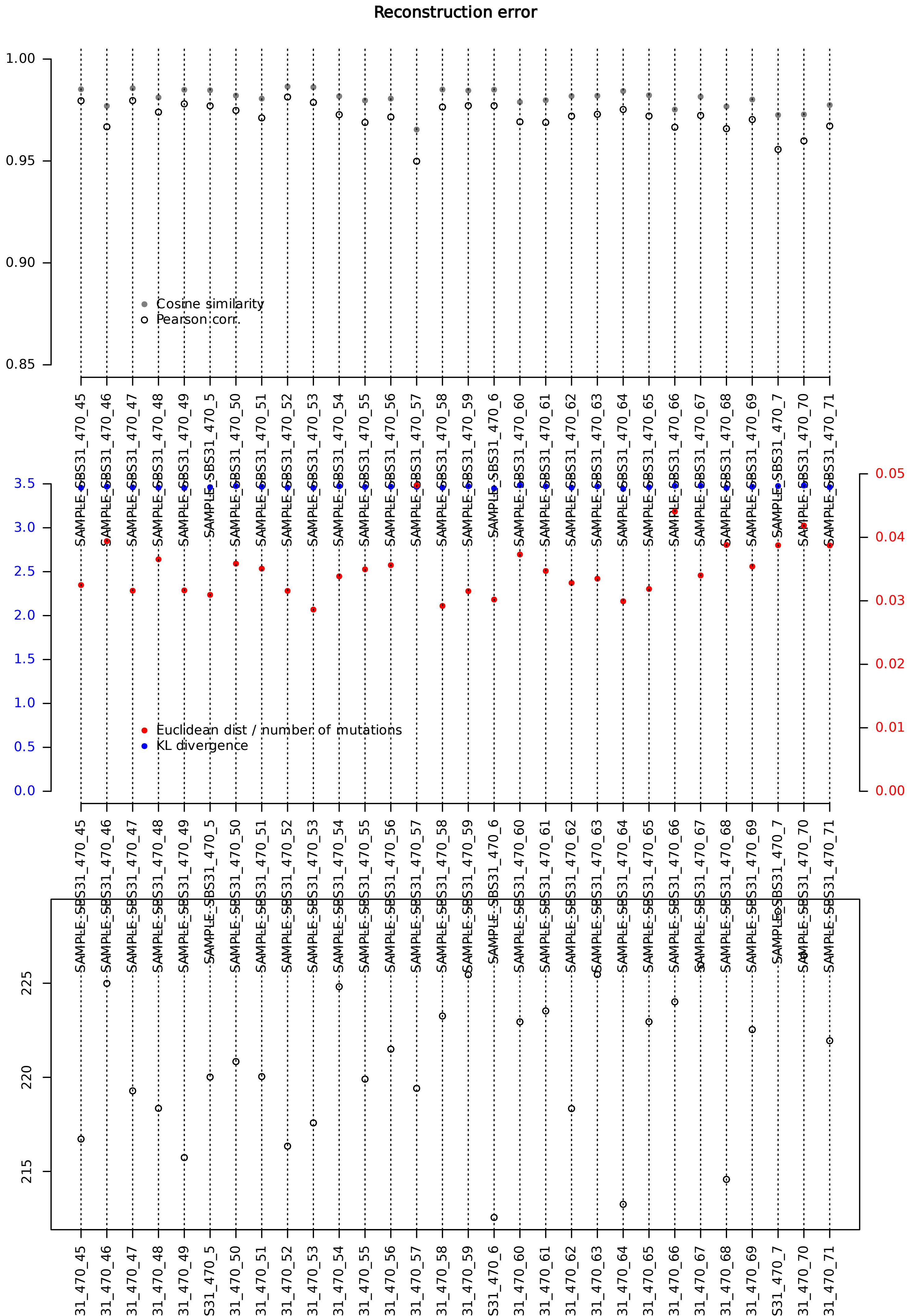

Reconstruction error
1.00
0.98
0.96
0.94
0.92
0.90
0.88
0.86
● Cosine similarity
○ Pearson corr.
SAMPLE-SBS31_465_27
SAMPLE-SBS31_465_28
SAMPLE-SBS31_465_29
SAMPLE-SBS31_465_3
SAMPLE-SBS31_465_30
SAMPLE-SBS31_465_31
SAMPLE-SBS31_465_32
SAMPLE-SBS31_465_33
SAMPLE-SBS31_465_34
SAMPLE-SBS31_465_35
SAMPLE-SBS31_465_36
SAMPLE-SBS31_465_37
SAMPLE-SBS31_465_38
SAMPLE-SBS31_465_39
SAMPLE-SBS31_465_4
SAMPLE-SBS31_465_40
SAMPLE-SBS31_465_41
SAMPLE-SBS31_465_42
SAMPLE-SBS31_465_43
SAMPLE-SBS31_465_44
SAMPLE-SBS31_465_45
SAMPLE-SBS31_465_46
SAMPLE-SBS31_465_47
SAMPLE-SBS31_465_48
SAMPLE-SBS31_465_49
SAMPLE-SBS31_465_5
SAMPLE-SBS31_465_50
SAMPLE-SBS31_465_51
SAMPLE-SBS31_465_52
SAMPLE-SBS31_465_53
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
● Euclidean dist / number of mutations
● KL divergence
228
226
224
222
220
218
216
214

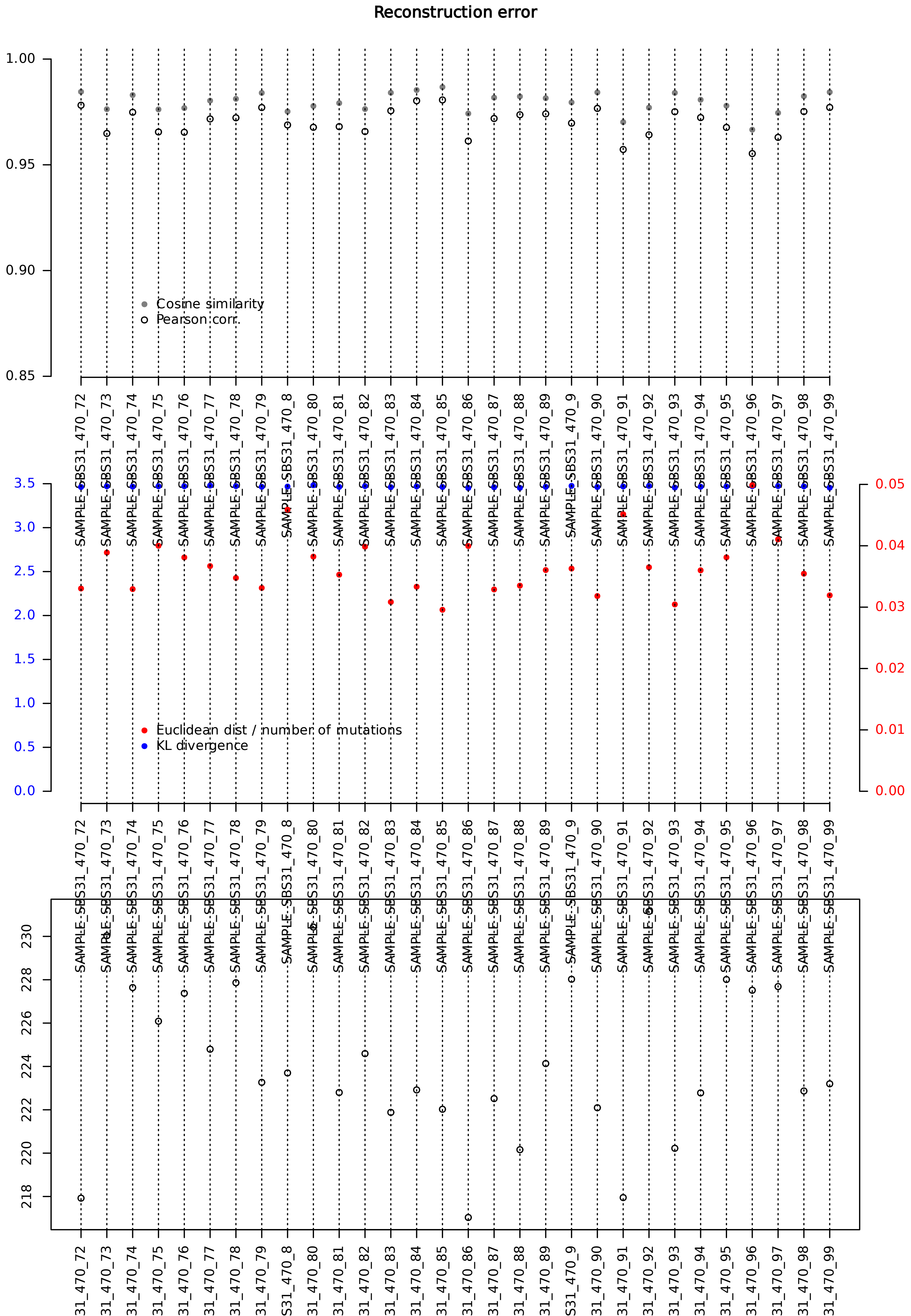

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.05
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
230
225
220
215
SAMPLE-SBS31_465_54
SAMPLE-SBS31_465_55
SAMPLE-SBS31_465_56
SAMPLE-SBS31_465_57
SAMPLE-SBS31_465_58
SAMPLE-SBS31_465_59
SAMPLE-SBS31_465_6
SAMPLE-SBS31_465_60
SAMPLE-SBS31_465_61
SAMPLE-SBS31_465_62
SAMPLE-SBS31_465_63
SAMPLE-SBS31_465_64
SAMPLE-SBS31_465_65
SAMPLE-SBS31_465_66
SAMPLE-SBS31_465_67
SAMPLE-SBS31_465_68
SAMPLE-SBS31_465_69
SAMPLE-SBS31_465_7
SAMPLE-SBS31_465_70
SAMPLE-SBS31_465_71
SAMPLE-SBS31_465_72
SAMPLE-SBS31_465_73
SAMPLE-SBS31_465_74
SAMPLE-SBS31_465_75
SAMPLE-SBS31_465_76
SAMPLE-SBS31_465_77
SAMPLE-SBS31_465_78
SAMPLE-SBS31_465_79
SAMPLE-SBS31_465_8
SAMPLE-SBS31_465_80

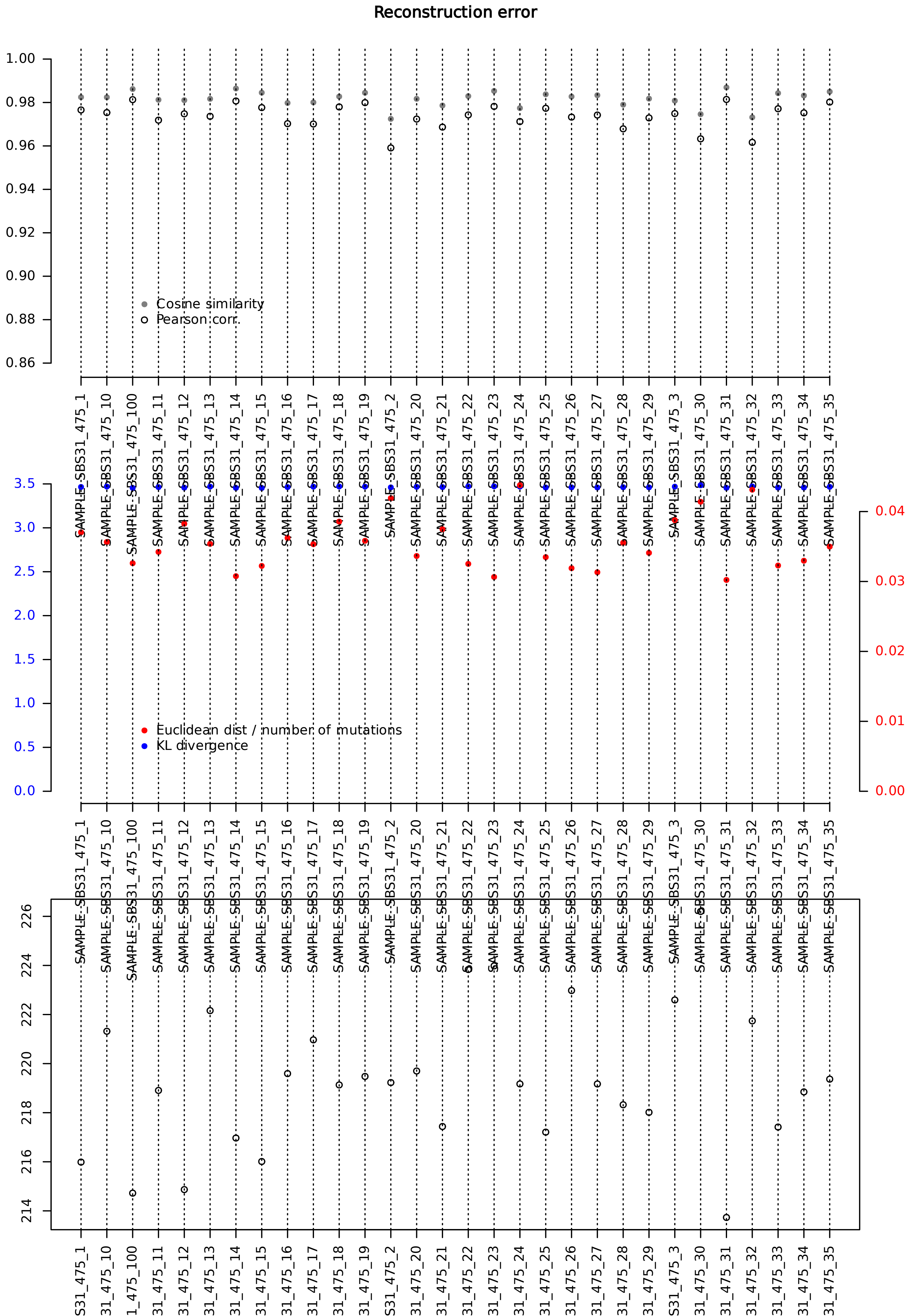

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
230
225
220
215
SAMPLE-SBS31_465_81
SAMPLE-SBS31_465_82
SAMPLE-SBS31_465_83
SAMPLE-SBS31_465_84
SAMPLE-SBS31_465_85
SAMPLE-SBS31_465_86
SAMPLE-SBS31_465_87
SAMPLE-SBS31_465_88
SAMPLE-SBS31_465_89
SAMPLE-SBS31_465_9
SAMPLE-SBS31_465_90
SAMPLE-SBS31_465_91
SAMPLE-SBS31_465_92
SAMPLE-SBS31_465_93
SAMPLE-SBS31_465_94
SAMPLE-SBS31_465_95
SAMPLE-SBS31_465_96
SAMPLE-SBS31_465_97
SAMPLE-SBS31_465_98
SAMPLE-SBS31_465_99
SAMPLE-SBS31_470_1
SAMPLE-SBS31_470_10
SAMPLE-SBS31_470_100
SAMPLE-SBS31_470_11
SAMPLE-SBS31_470_12
SAMPLE-SBS31_470_13
SAMPLE-SBS31_470_14
SAMPLE-SBS31_470_15
SAMPLE-SBS31_470_16
SAMPLE-SBS31_470_17

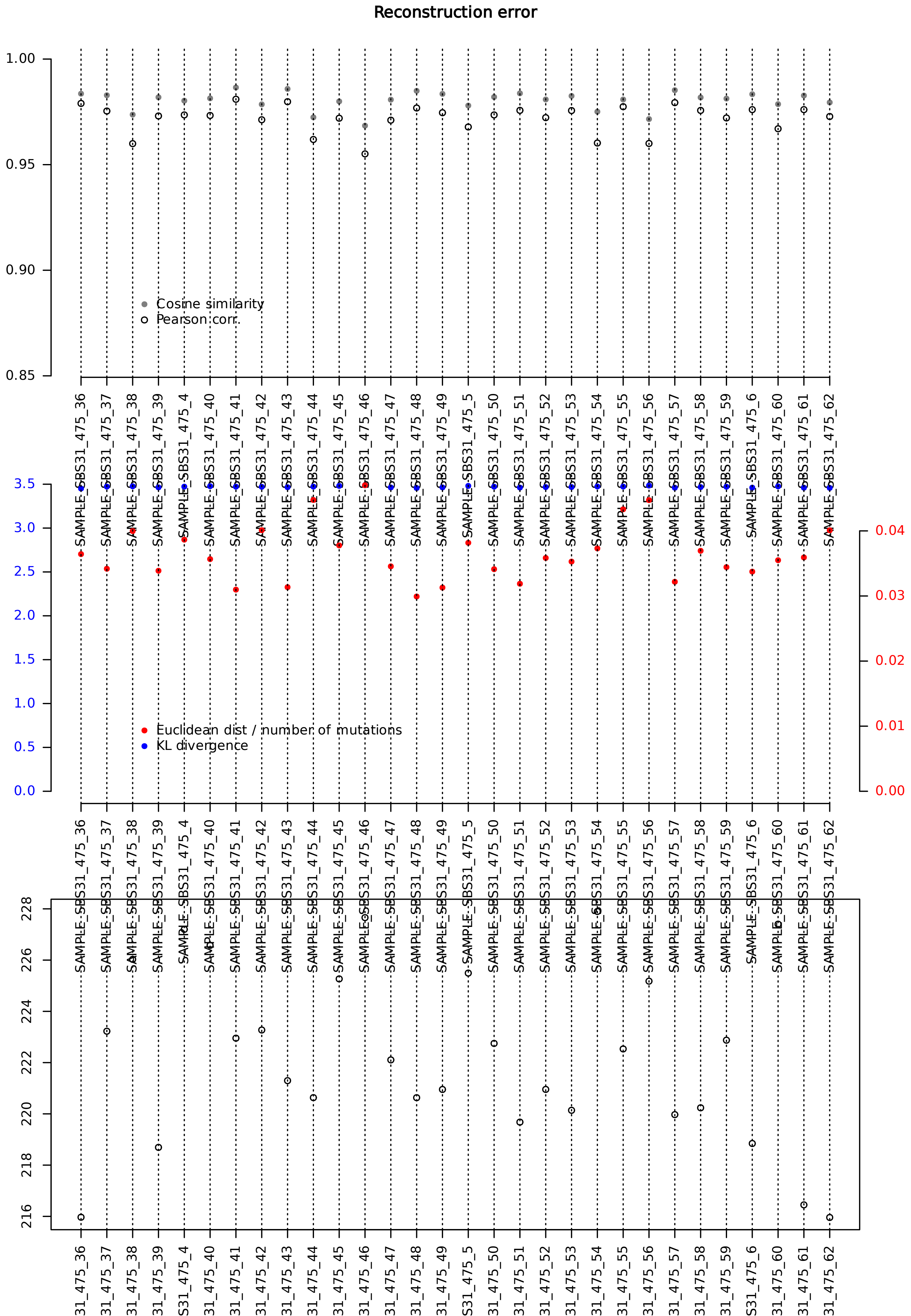
Reconstruction error

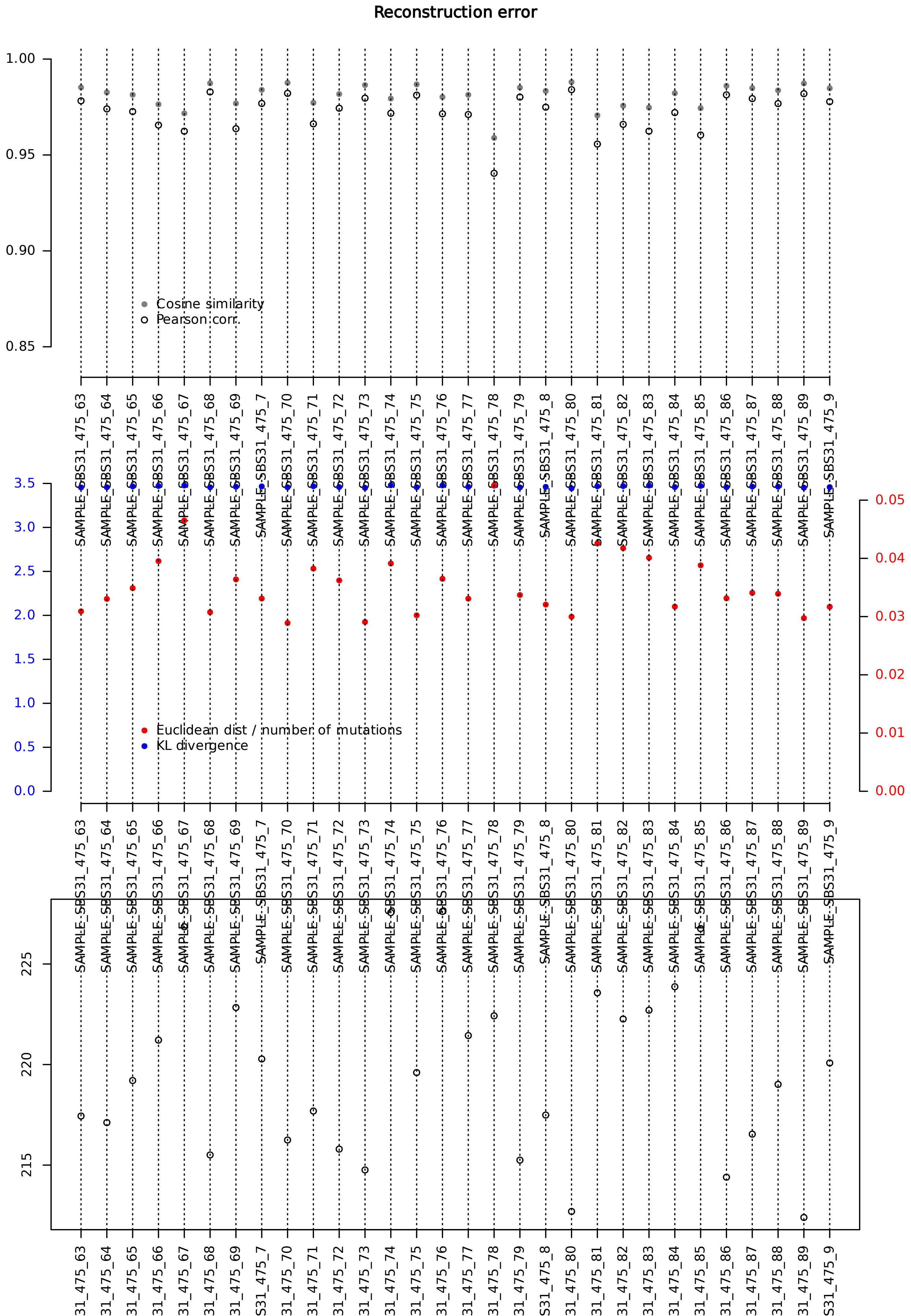



Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
SAMPLE-SBS31_470_45
SAMPLE-SBS31_470_46
SAMPLE-SBS31_470_47
SAMPLE-SBS31_470_48
SAMPLE-SBS31_470_49
SAMPLE-SBS31_470_5
SAMPLE-SBS31_470_50
SAMPLE-SBS31_470_51
SAMPLE-SBS31_470_52
SAMPLE-SBS31_470_53
SAMPLE-SBS31_470_54
SAMPLE-SBS31_470_55
SAMPLE-SBS31_470_56
SAMPLE-SBS31_470_57
SAMPLE-SBS31_470_58
SAMPLE-SBS31_470_59
SAMPLE-SBS31_470_6
SAMPLE-SBS31_470_60
SAMPLE-SBS31_470_61
SAMPLE-SBS31_470_62
SAMPLE-SBS31_470_63
SAMPLE-SBS31_470_64
SAMPLE-SBS31_470_65
SAMPLE-SBS31_470_66
SAMPLE-SBS31_470_67
SAMPLE-SBS31_470_68
SAMPLE-SBS31_470_69
SAMPLE-SBS31_470_7
SAMPLE-SBS31_470_70
SAMPLE-SBS31_470_71
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.05
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
225
220
215


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
SAMPLE_SBS31_470_72
SAMPLE_SBS31_470_73
SAMPLE_SBS31_470_74
SAMPLE_SBS31_470_75
SAMPLE_SBS31_470_76
SAMPLE_SBS31_470_77
SAMPLE_SBS31_470_78
SAMPLE_SBS31_470_79
SAMPLE_SBS31_470_8
SAMPLE_SBS31_470_80
SAMPLE_SBS31_470_81
SAMPLE_SBS31_470_82
SAMPLE_SBS31_470_83
SAMPLE_SBS31_470_84
SAMPLE_SBS31_470_85
SAMPLE_SBS31_470_86
SAMPLE_SBS31_470_87
SAMPLE_SBS31_470_88
SAMPLE_SBS31_470_89
SAMPLE_SBS31_470_9
SAMPLE_SBS31_470_90
SAMPLE_SBS31_470_91
SAMPLE_SBS31_470_92
SAMPLE_SBS31_470_93
SAMPLE_SBS31_470_94
SAMPLE_SBS31_470_95
SAMPLE_SBS31_470_96
SAMPLE_SBS31_470_97
SAMPLE_SBS31_470_98
SAMPLE_SBS31_470_99
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.05
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
230
228
226
224
222
220
218


Reconstruction error
1.00
0.98
0.96
0.94
0.92
0.90
0.88
0.86
● Cosine similarity
○ Pearson corr.
SAMPLE-SBS31_475_1
SAMPLE-SBS31_475_10
SAMPLE-SBS31_475_100
SAMPLE-SBS31_475_11
SAMPLE-SBS31_475_12
SAMPLE-SBS31_475_13
SAMPLE-SBS31_475_14
SAMPLE-SBS31_475_15
SAMPLE-SBS31_475_16
SAMPLE-SBS31_475_17
SAMPLE-SBS31_475_18
SAMPLE-SBS31_475_19
SAMPLE-SBS31_475_2
SAMPLE-SBS31_475_20
SAMPLE-SBS31_475_21
SAMPLE-SBS31_475_22
SAMPLE-SBS31_475_23
SAMPLE-SBS31_475_24
SAMPLE-SBS31_475_25
SAMPLE-SBS31_475_26
SAMPLE-SBS31_475_27
SAMPLE-SBS31_475_28
SAMPLE-SBS31_475_29
SAMPLE-SBS31_475_3
SAMPLE-SBS31_475_30
SAMPLE-SBS31_475_31
SAMPLE-SBS31_475_32
SAMPLE-SBS31_475_33
SAMPLE-SBS31_475_34
SAMPLE-SBS31_475_35
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
● Euclidean dist / number of mutations
● KL divergence
226
224
222
220
218
216
214


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
228
226
224
222
220
218
216
SAMPLE-SBS31_475_36
SAMPLE-SBS31_475_37
SAMPLE-SBS31_475_38
SAMPLE-SBS31_475_39
SAMPLE-SBS31_475_4
SAMPLE-SBS31_475_40
SAMPLE-SBS31_475_41
SAMPLE-SBS31_475_42
SAMPLE-SBS31_475_43
SAMPLE-SBS31_475_44
SAMPLE-SBS31_475_45
SAMPLE-SBS31_475_46
SAMPLE-SBS31_475_47
SAMPLE-SBS31_475_48
SAMPLE-SBS31_475_49
SAMPLE-SBS31_475_5
SAMPLE-SBS31_475_50
SAMPLE-SBS31_475_51
SAMPLE-SBS31_475_52
SAMPLE-SBS31_475_53
SAMPLE-SBS31_475_54
SAMPLE-SBS31_475_55
SAMPLE-SBS31_475_56
SAMPLE-SBS31_475_57
SAMPLE-SBS31_475_58
SAMPLE-SBS31_475_59
SAMPLE-SBS31_475_6
SAMPLE-SBS31_475_60
SAMPLE-SBS31_475_61
SAMPLE-SBS31_475_62


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
SAMPLE-SBS31_475_63
SAMPLE-SBS31_475_64
SAMPLE-SBS31_475_65
SAMPLE-SBS31_475_66
SAMPLE-SBS31_475_67
SAMPLE-SBS31_475_68
SAMPLE-SBS31_475_69
SAMPLE-SBS31_475_7
SAMPLE-SBS31_475_70
SAMPLE-SBS31_475_71
SAMPLE-SBS31_475_72
SAMPLE-SBS31_475_73
SAMPLE-SBS31_475_74
SAMPLE-SBS31_475_75
SAMPLE-SBS31_475_76
SAMPLE-SBS31_475_77
SAMPLE-SBS31_475_78
SAMPLE-SBS31_475_79
SAMPLE-SBS31_475_8
SAMPLE-SBS31_475_80
SAMPLE-SBS31_475_81
SAMPLE-SBS31_475_82
SAMPLE-SBS31_475_83
SAMPLE-SBS31_475_84
SAMPLE-SBS31_475_85
SAMPLE-SBS31_475_86
SAMPLE-SBS31_475_87
SAMPLE-SBS31_475_88
SAMPLE-SBS31_475_89
SAMPLE-SBS31_475_9
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.05
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
SAMPLE-SBS31_475_63
SAMPLE-SBS31_475_64
SAMPLE-SBS31_475_65
SAMPLE-SBS31_475_66
SAMPLE-SBS31_475_67
SAMPLE-SBS31_475_68
SAMPLE-SBS31_475_69
SAMPLE-SBS31_475_7
SAMPLE-SBS31_475_70
SAMPLE-SBS31_475_71
SAMPLE-SBS31_475_72
SAMPLE-SBS31_475_73
SAMPLE-SBS31_475_74
SAMPLE-SBS31_475_75
SAMPLE-SBS31_475_76
SAMPLE-SBS31_475_77
SAMPLE-SBS31_475_78
SAMPLE-SBS31_475_79
SAMPLE-SBS31_475_8
SAMPLE-SBS31_475_80
SAMPLE-SBS31_475_81
SAMPLE-SBS31_475_82
SAMPLE-SBS31_475_83
SAMPLE-SBS31_475_84
SAMPLE-SBS31_475_85
SAMPLE-SBS31_475_86
SAMPLE-SBS31_475_87
SAMPLE-SBS31_475_88
SAMPLE-SBS31_475_89
SAMPLE-SBS31_475_9
225
220
215
31_475_63
31_475_64
31_475_65
31_475_66
31_475_67
31_475_68
31_475_69
S31_475_7
31_475_70
31_475_71
31_475_72
31_475_73
31_475_74
31_475_75
31_475_76
31_475_77
31_475_78
31_475_79
S31_475_8
31_475_80
31_475_81
31_475_82
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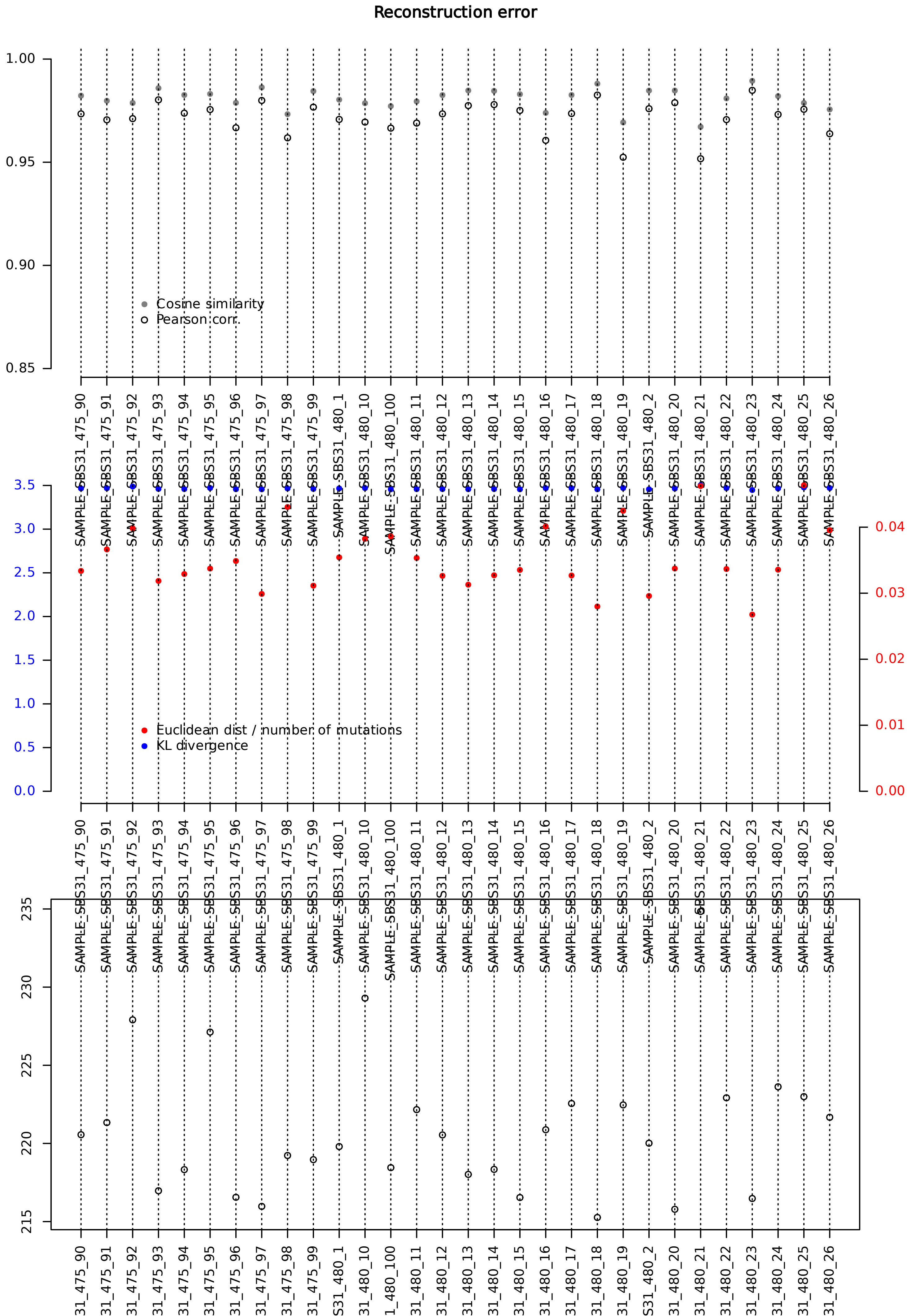
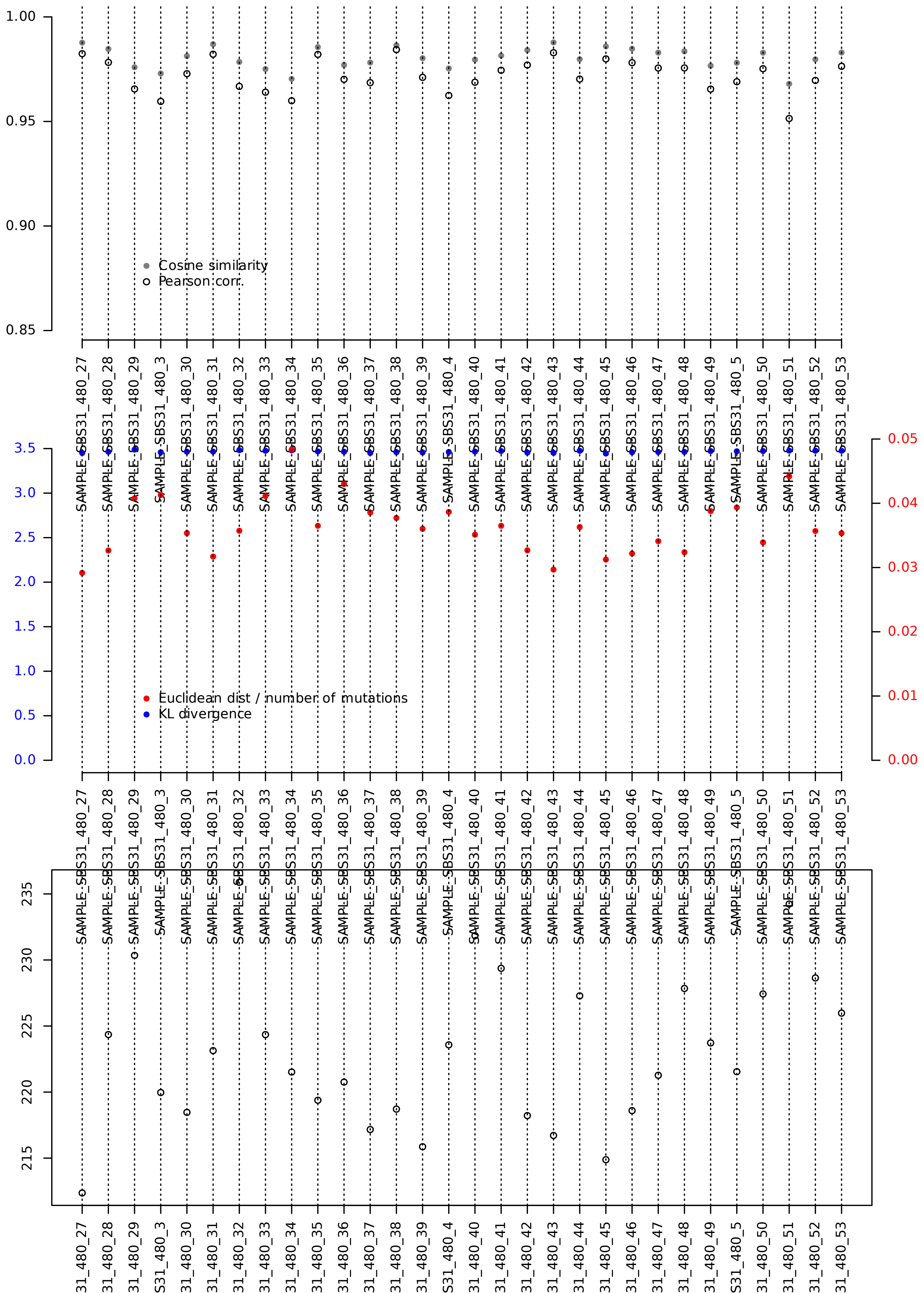
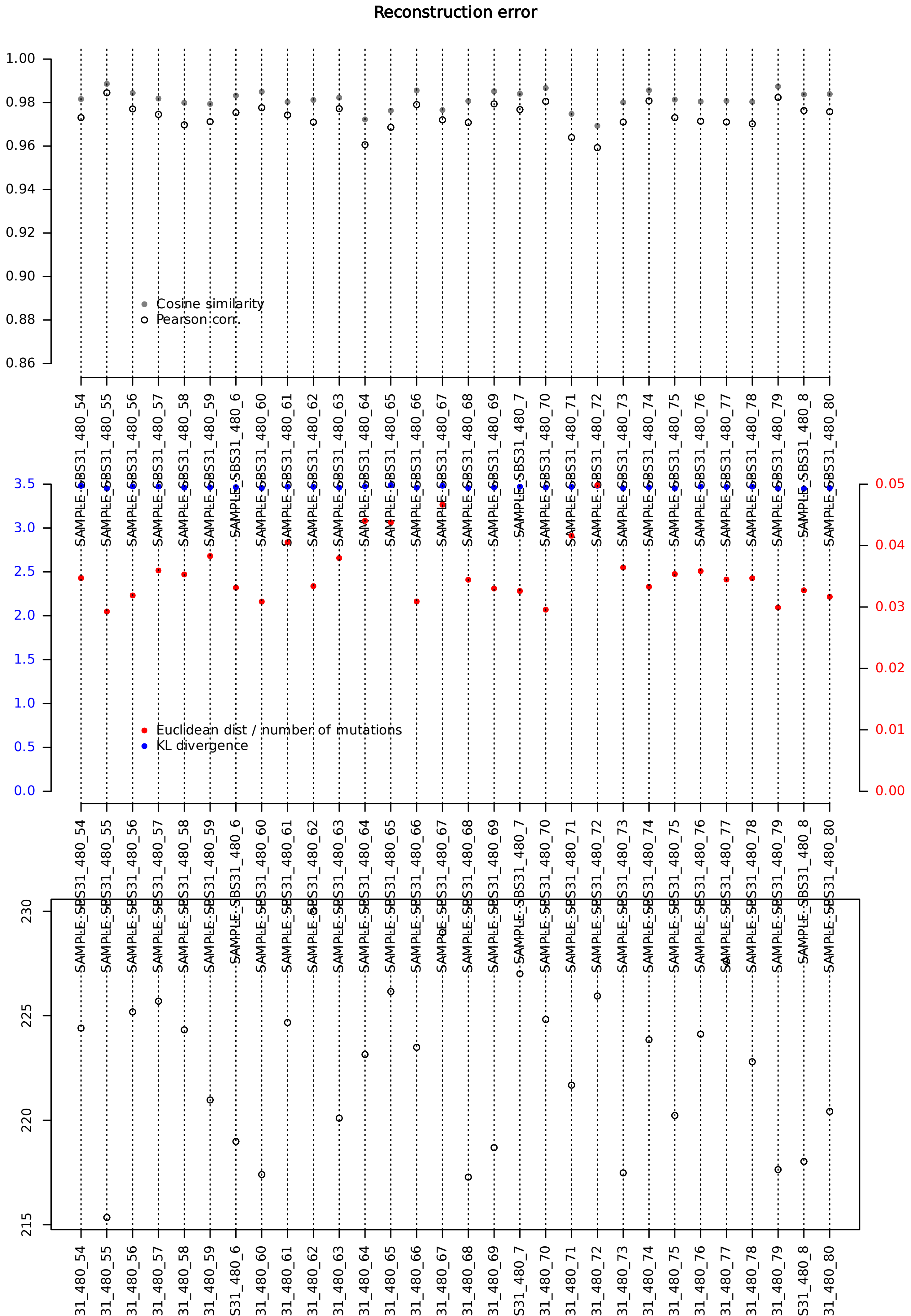
31_475_86
31_475_87
31_475_88
31_475_89
S31_475_9


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
220
215
SAMPLE-SBS31_475_90
SAMPLE-SBS31_475_91
SAMPLE-SBS31_475_92
SAMPLE-SBS31_475_93
SAMPLE-SBS31_475_94
SAMPLE-SBS31_475_95
SAMPLE-SBS31_475_96
SAMPLE-SBS31_475_97
SAMPLE-SBS31_475_98
SAMPLE-SBS31_475_99
SAMPLE-SBS31_480_1
SAMPLE-SBS31_480_10
SAMPLE-SBS31_480_100
SAMPLE-SBS31_480_11
SAMPLE-SBS31_480_12
SAMPLE-SBS31_480_13
SAMPLE-SBS31_480_14
SAMPLE-SBS31_480_15
SAMPLE-SBS31_480_16
SAMPLE-SBS31_480_17
SAMPLE-SBS31_480_18
SAMPLE-SBS31_480_19
SAMPLE-SBS31_480_2
SAMPLE-SBS31_480_20
SAMPLE-SBS31_480_21
SAMPLE-SBS31_480_22
SAMPLE-SBS31_480_23
SAMPLE-SBS31_480_24
SAMPLE-SBS31_480_25
SAMPLE-SBS31_480_26

Reconstruction error




Reconstruction error
1.00
0.98
0.96
0.94
0.92
0.90
0.88
0.86
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.05
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
230
225
220
215
SAMPLE-SBS31_480_54
SAMPLE-SBS31_480_55
SAMPLE-SBS31_480_56
SAMPLE-SBS31_480_57
SAMPLE-SBS31_480_58
SAMPLE-SBS31_480_59
SAMPLE-SBS31_480_6
SAMPLE-SBS31_480_60
SAMPLE-SBS31_480_61
SAMPLE-SBS31_480_62
SAMPLE-SBS31_480_63
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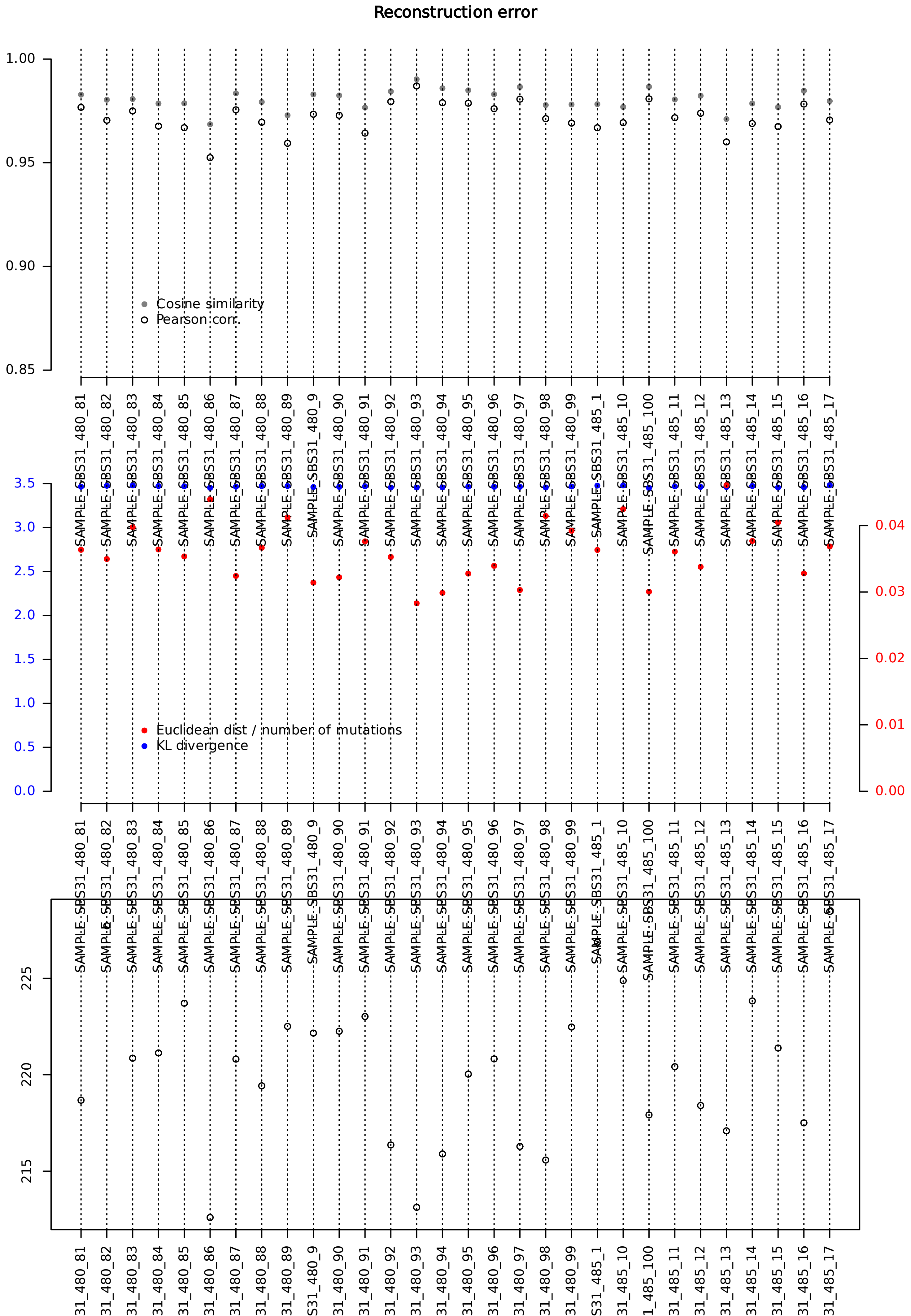
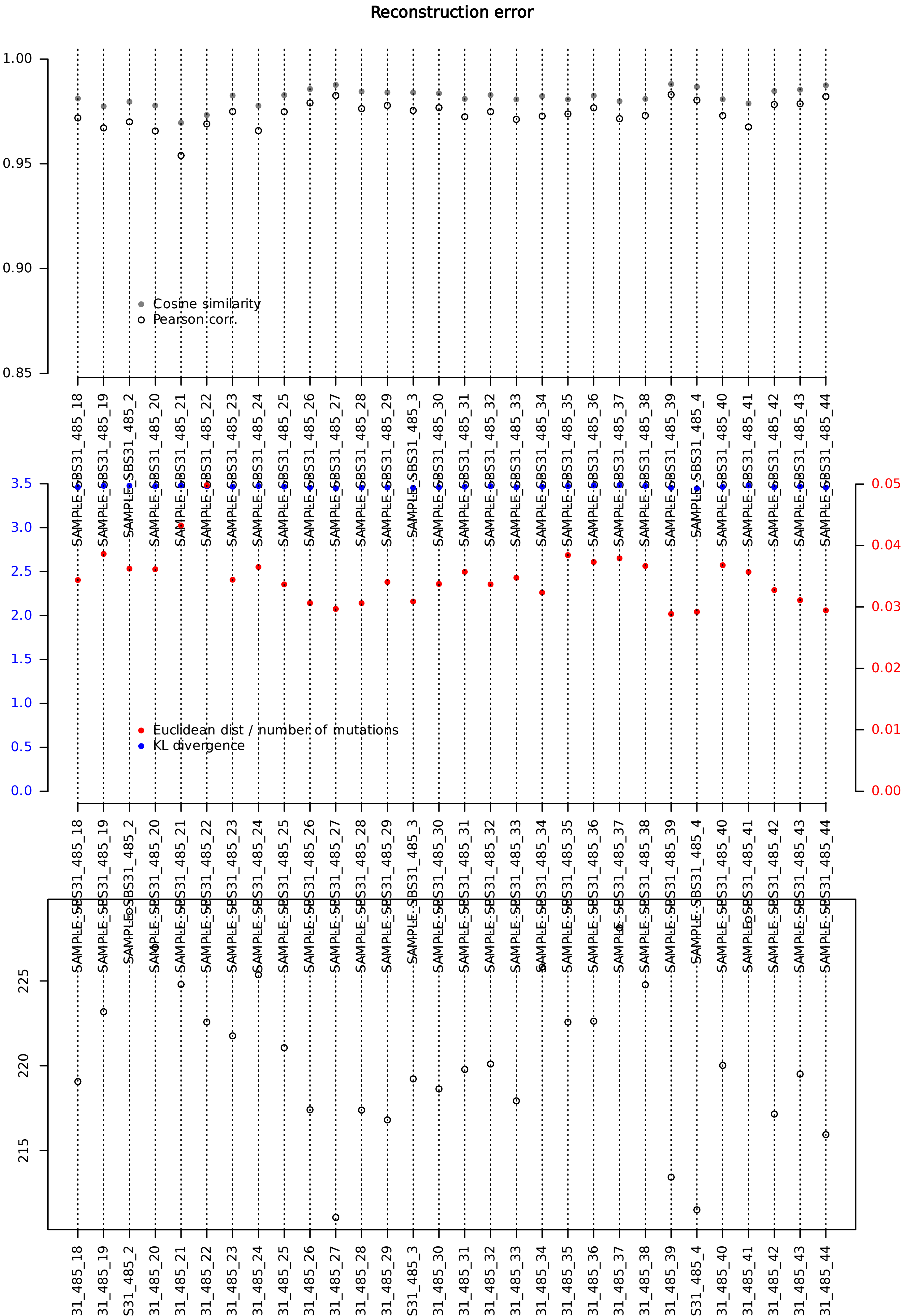
SAMPLE-SBS31_480_67
SAMPLE-SBS31_480_68
SAMPLE-SBS31_480_69
SAMPLE-SBS31_480_7
SAMPLE-SBS31_480_70
SAMPLE-SBS31_480_71
SAMPLE-SBS31_480_72
SAMPLE-SBS31_480_73
SAMPLE-SBS31_480_74
SAMPLE-SBS31_480_75
SAMPLE-SBS31_480_76
SAMPLE-SBS31_480_77
SAMPLE-SBS31_480_78
SAMPLE-SBS31_480_79
SAMPLE-SBS31_480_8
SAMPLE-SBS31_480_80


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
225
220
215
SAMPLE-SBS31_480_81
SAMPLE-SBS31_480_82
SAMPLE-SBS31_480_83
SAMPLE-SBS31_480_84
SAMPLE-SBS31_480_85
SAMPLE-SBS31_480_86
SAMPLE-SBS31_480_87
SAMPLE-SBS31_480_88
SAMPLE-SBS31_480_89
SAMPLE-SBS31_480_9
SAMPLE-SBS31_480_90
SAMPLE-SBS31_480_91
SAMPLE-SBS31_480_92
SAMPLE-SBS31_480_93
SAMPLE-SBS31_480_94
SAMPLE-SBS31_480_95
SAMPLE-SBS31_480_96
SAMPLE-SBS31_480_97
SAMPLE-SBS31_480_98
SAMPLE-SBS31_480_99
SAMPLE-SBS31_485_1
SAMPLE-SBS31_485_10
SAMPLE-SBS31_485_100
SAMPLE-SBS31_485_11
SAMPLE-SBS31_485_12
SAMPLE-SBS31_485_13
SAMPLE-SBS31_485_14
SAMPLE-SBS31_485_15
SAMPLE-SBS31_485_16
SAMPLE-SBS31_485_17


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.05
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
225
220
215
SAMPLE-SBS31_485_18
SAMPLE-SBS31_485_19
SAMPLE-SBS31_485_2
SAMPLE-SBS31_485_20
SAMPLE-SBS31_485_21
SAMPLE-SBS31_485_22
SAMPLE-SBS31_485_23
SAMPLE-SBS31_485_24
SAMPLE-SBS31_485_25
SAMPLE-SBS31_485_26
SAMPLE-SBS31_485_27
SAMPLE-SBS31_485_28
SAMPLE-SBS31_485_29
SAMPLE-SBS31_485_3
SAMPLE-SBS31_485_30
SAMPLE-SBS31_485_31
SAMPLE-SBS31_485_32
SAMPLE-SBS31_485_33
SAMPLE-SBS31_485_34
SAMPLE-SBS31_485_35
SAMPLE-SBS31_485_36
SAMPLE-SBS31_485_37
SAMPLE-SBS31_485_38
SAMPLE-SBS31_485_39
SAMPLE-SBS31_485_4
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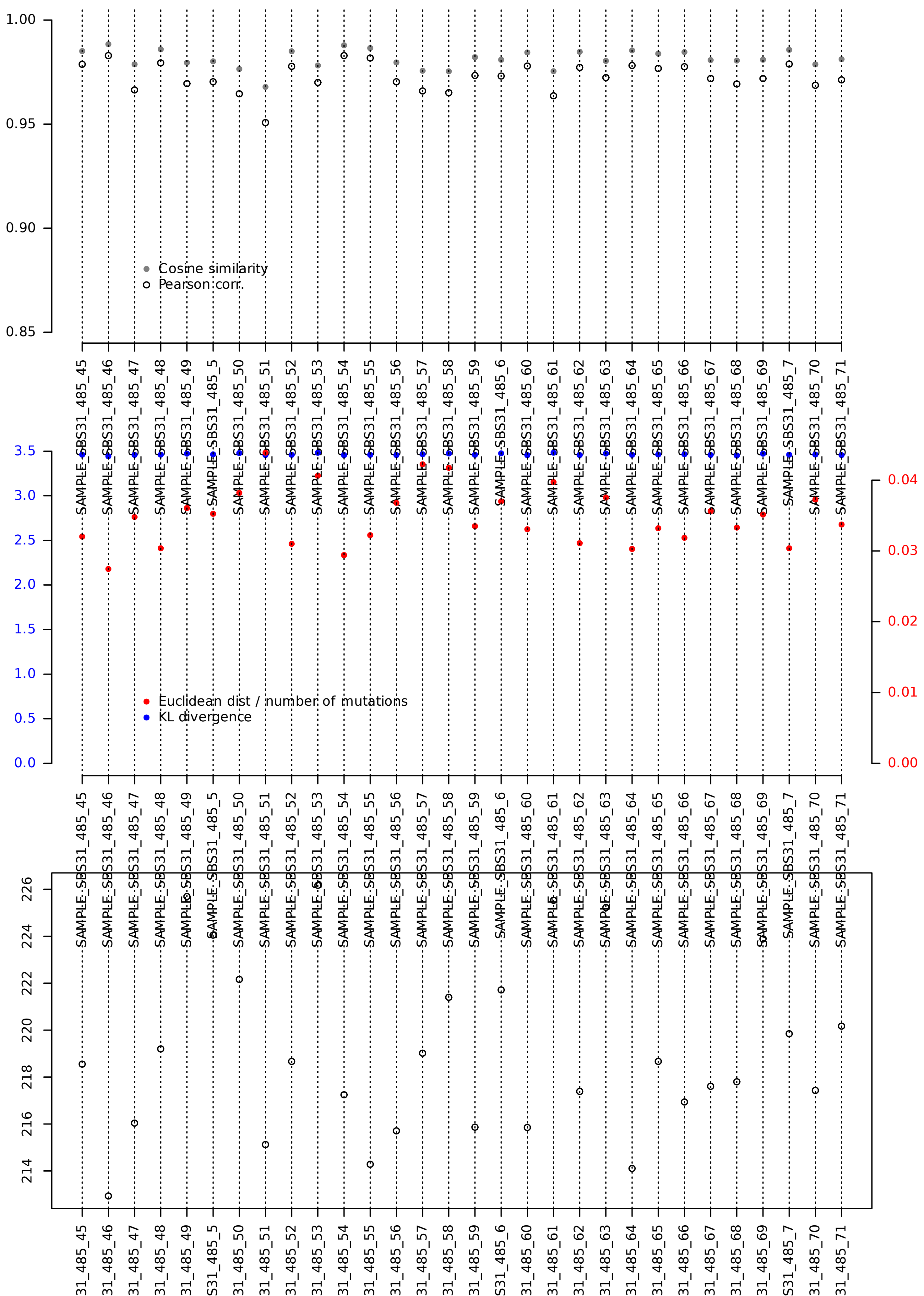
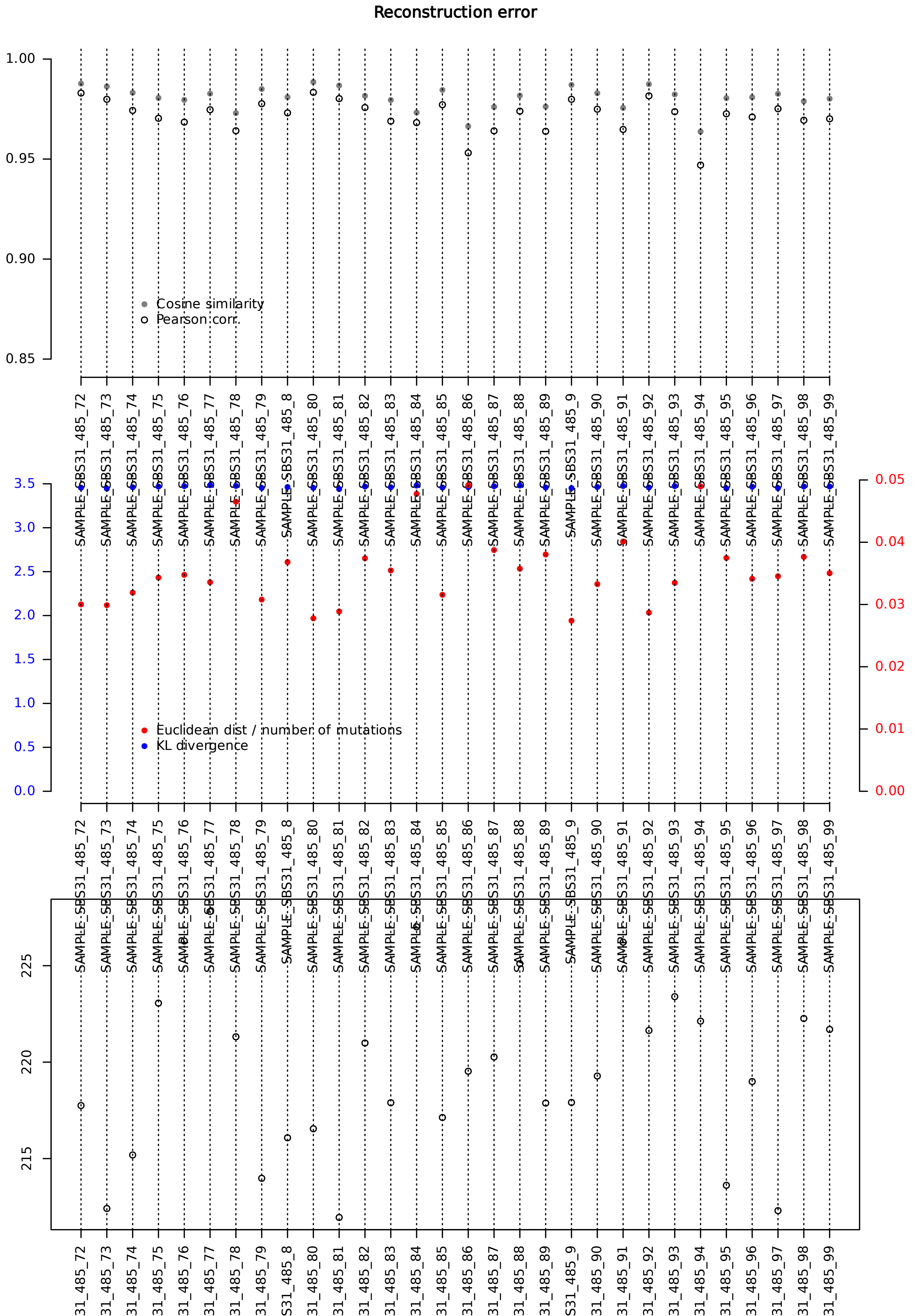
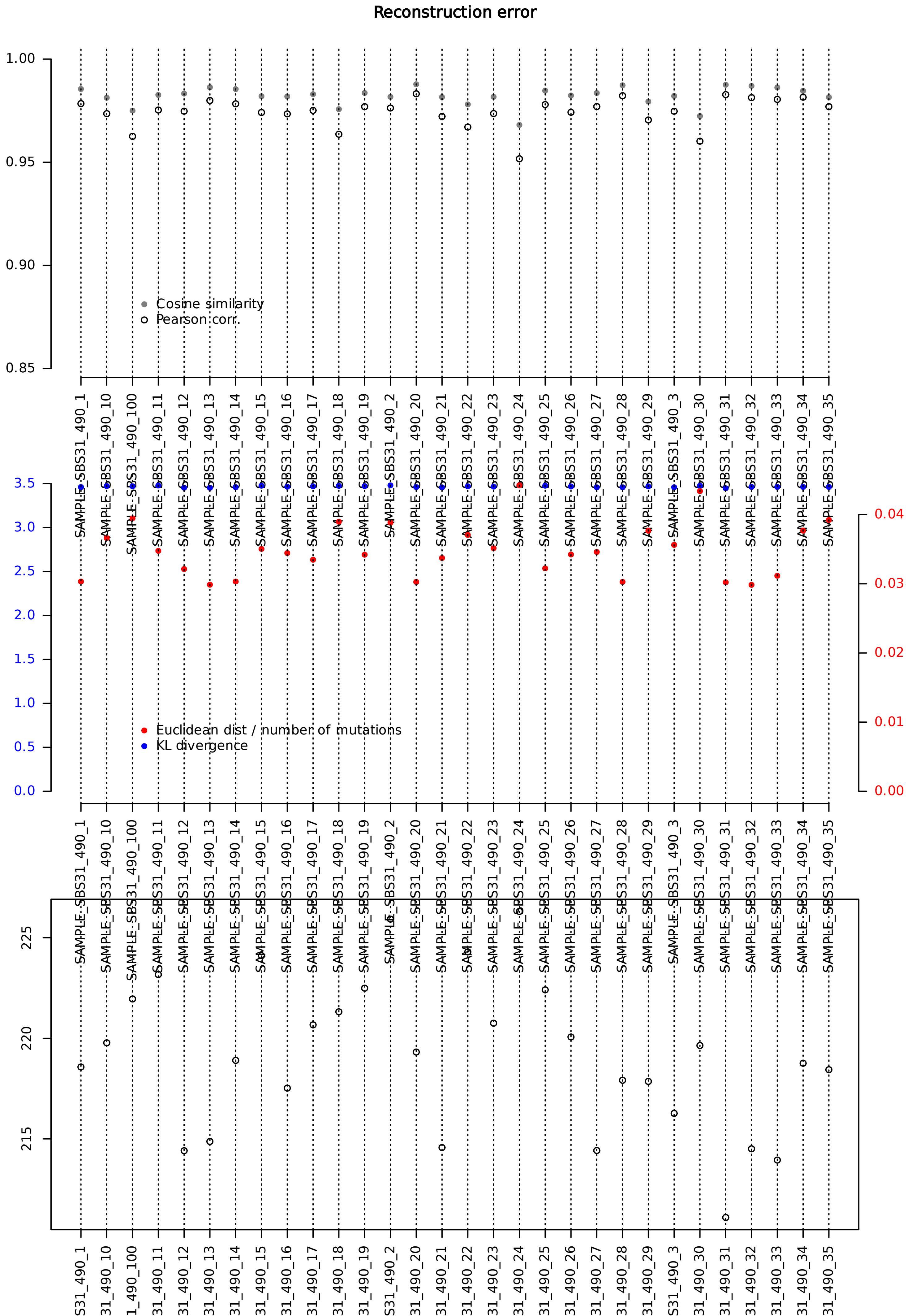
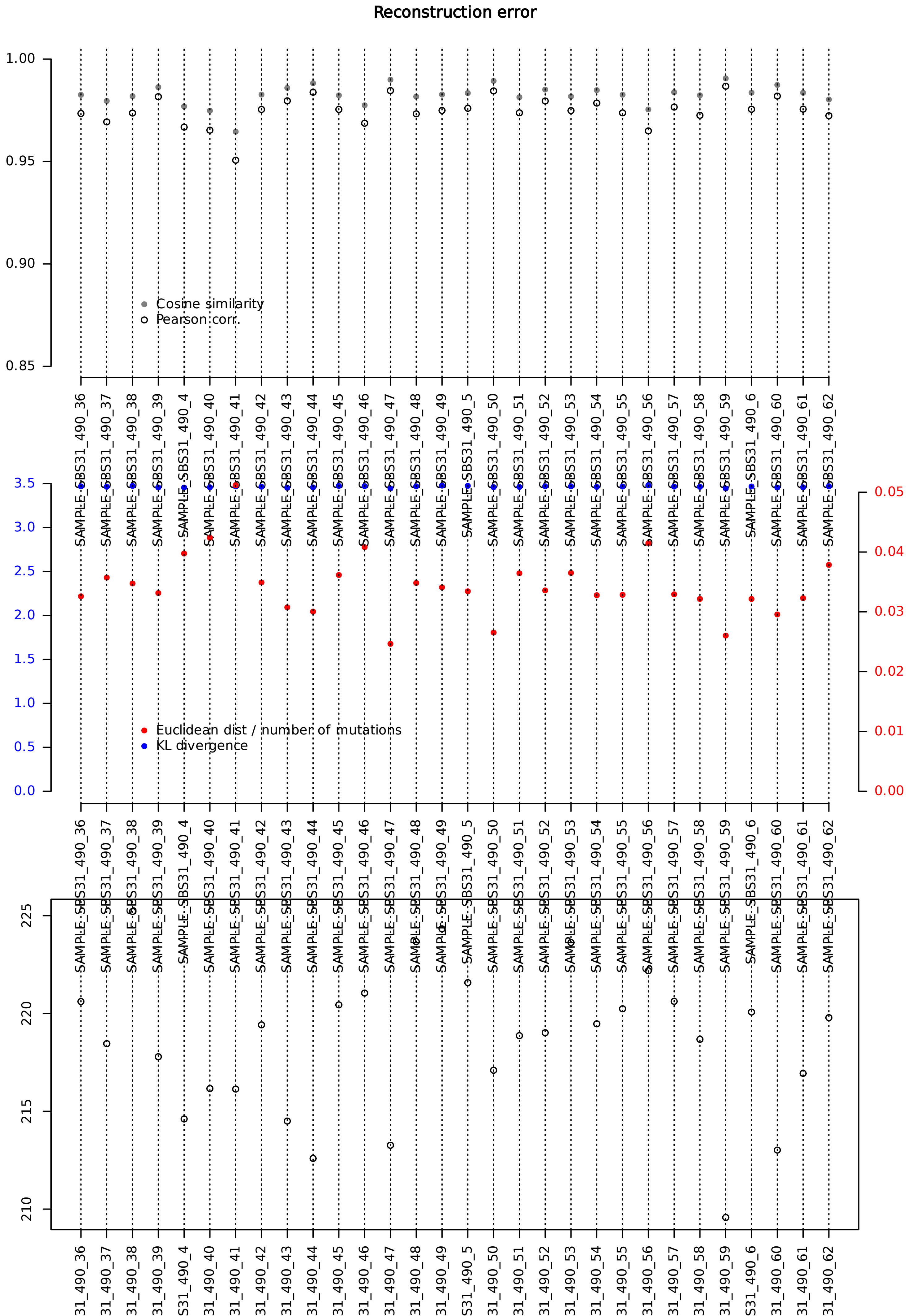
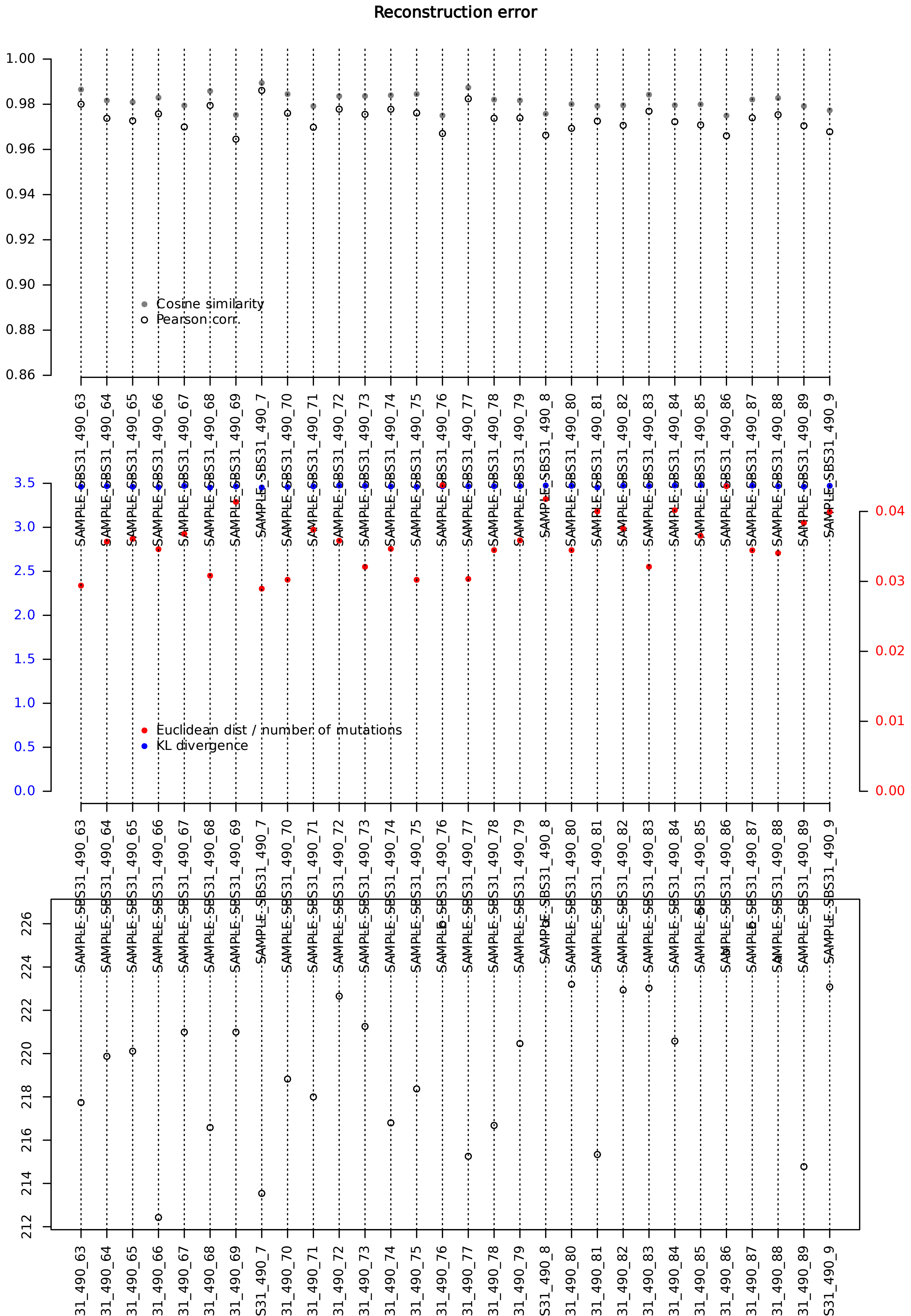
SAMPLE-SBS31_485_41
SAMPLE-SBS31_485_42
SAMPLE-SBS31_485_43
SAMPLE-SBS31_485_44


Reconstruction error

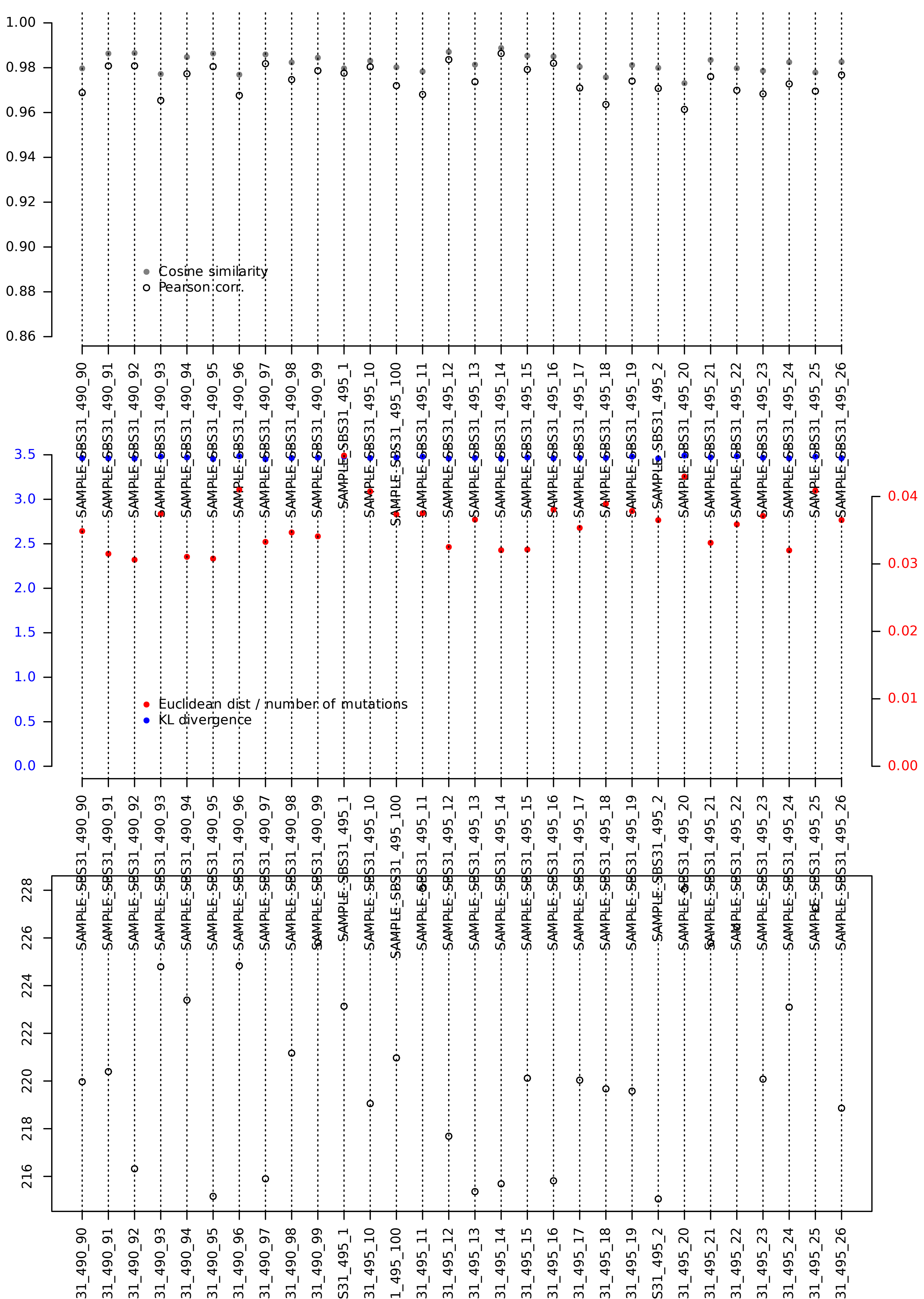

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.05
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
225
220
215
SAMPLE-SBS31_485_72
SAMPLE-SBS31_485_73
SAMPLE-SBS31_485_74
SAMPLE-SBS31_485_75
SAMPLE-SBS31_485_76
SAMPLE-SBS31_485_77
SAMPLE-SBS31_485_78
SAMPLE-SBS31_485_79
SAMPLE-SBS31_485_8
SAMPLE-SBS31_485_80
SAMPLE-SBS31_485_81
SAMPLE-SBS31_485_82
SAMPLE-SBS31_485_83
SAMPLE-SBS31_485_84
SAMPLE-SBS31_485_85
SAMPLE-SBS31_485_86
SAMPLE-SBS31_485_87
SAMPLE-SBS31_485_88
SAMPLE-SBS31_485_89
SAMPLE-SBS31_485_9
SAMPLE-SBS31_485_90
SAMPLE-SBS31_485_91
SAMPLE-SBS31_485_92
SAMPLE-SBS31_485_93
SAMPLE-SBS31_485_94
SAMPLE-SBS31_485_95
SAMPLE-SBS31_485_96
SAMPLE-SBS31_485_97
SAMPLE-SBS31_485_98
SAMPLE-SBS31_485_99

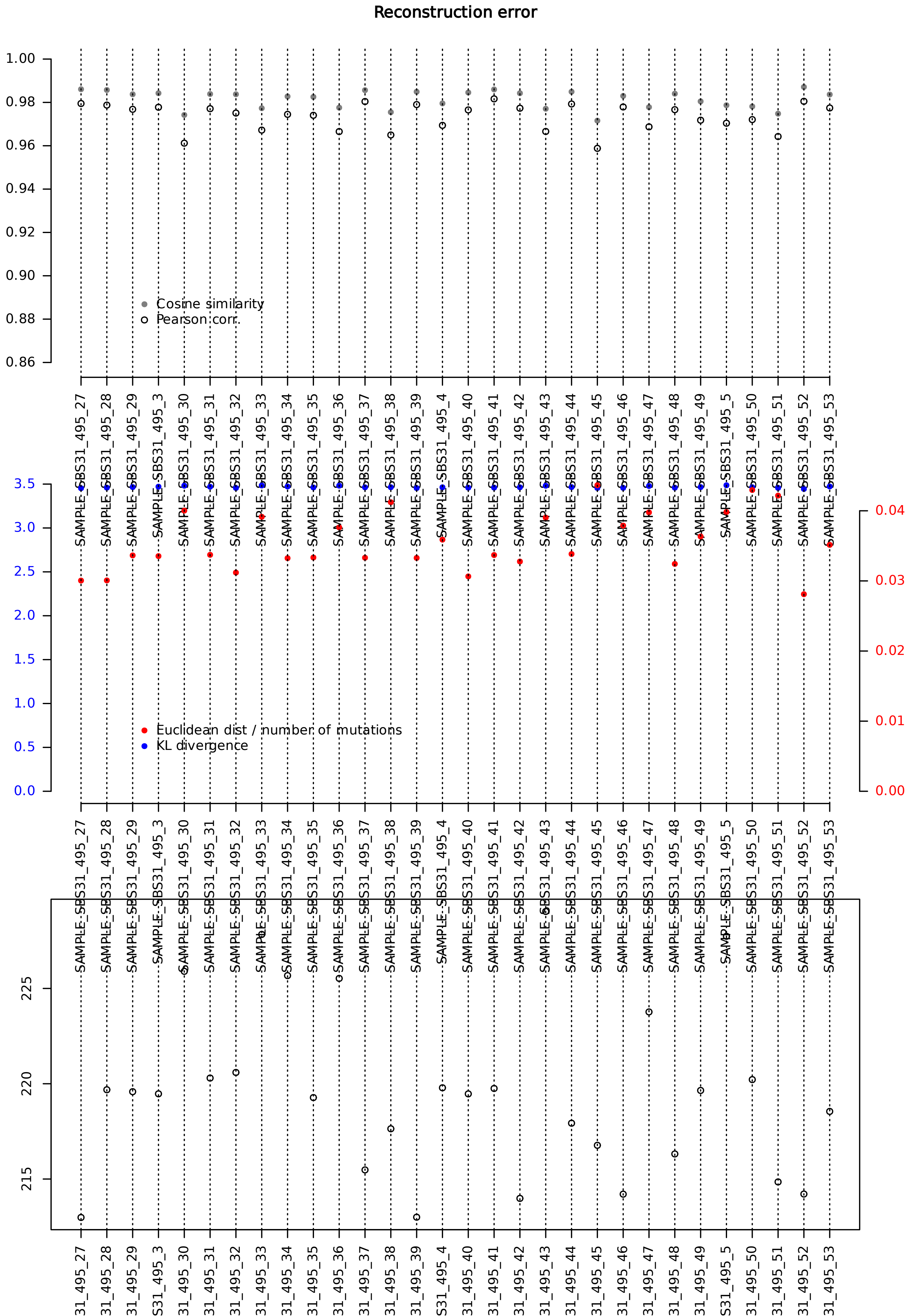

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
SAMPLE-SBS31_490_1
SAMPLE-SBS31_490_10
SAMPLE-SBS31_490_100
SAMPLE-SBS31_490_11
SAMPLE-SBS31_490_12
SAMPLE-SBS31_490_13
SAMPLE-SBS31_490_14
SAMPLE-SBS31_490_15
SAMPLE-SBS31_490_16
SAMPLE-SBS31_490_17
SAMPLE-SBS31_490_18
SAMPLE-SBS31_490_19
SAMPLE-SBS31_490_2
SAMPLE-SBS31_490_20
SAMPLE-SBS31_490_21
SAMPLE-SBS31_490_22
SAMPLE-SBS31_490_23
SAMPLE-SBS31_490_24
SAMPLE-SBS31_490_25
SAMPLE-SBS31_490_26
SAMPLE-SBS31_490_27
SAMPLE-SBS31_490_28
SAMPLE-SBS31_490_29
SAMPLE-SBS31_490_3
SAMPLE-SBS31_490_30
SAMPLE-SBS31_490_31
SAMPLE-SBS31_490_32
SAMPLE-SBS31_490_33
SAMPLE-SBS31_490_34
SAMPLE-SBS31_490_35
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
225
220
215

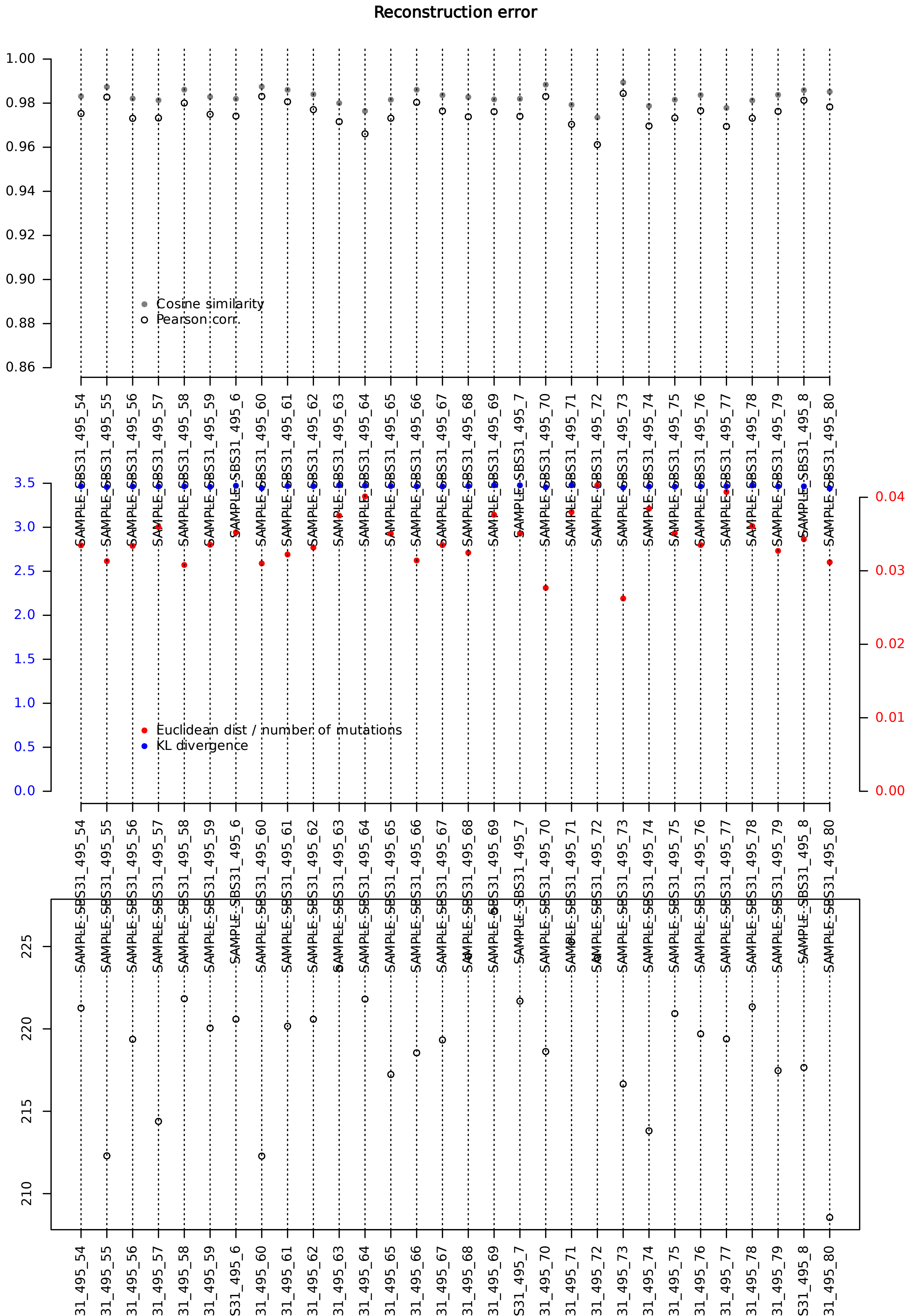

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.05
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
225
220
215
210
SAMPLE-SBS31_490_36
SAMPLE-SBS31_490_37
SAMPLE-SBS31_490_38
SAMPLE-SBS31_490_39
SAMPLE-SBS31_490_4
SAMPLE-SBS31_490_40
SAMPLE-SBS31_490_41
SAMPLE-SBS31_490_42
SAMPLE-SBS31_490_43
SAMPLE-SBS31_490_44
SAMPLE-SBS31_490_45
SAMPLE-SBS31_490_46
SAMPLE-SBS31_490_47
SAMPLE-SBS31_490_48
SAMPLE-SBS31_490_49
SAMPLE-SBS31_490_5
SAMPLE-SBS31_490_50
SAMPLE-SBS31_490_51
SAMPLE-SBS31_490_52
SAMPLE-SBS31_490_53
SAMPLE-SBS31_490_54
SAMPLE-SBS31_490_55
SAMPLE-SBS31_490_56
SAMPLE-SBS31_490_57
SAMPLE-SBS31_490_58
SAMPLE-SBS31_490_59
SAMPLE-SBS31_490_6
SAMPLE-SBS31_490_60
SAMPLE-SBS31_490_61
SAMPLE-SBS31_490_62


Reconstruction error
1.00
0.98
0.96
0.94
0.92
0.90
0.88
0.86
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
226
224
222
220
218
216
214
212
SAMPLE-SBS31_490_63
SAMPLE-SBS31_490_64
SAMPLE-SBS31_490_65
SAMPLE-SBS31_490_66
SAMPLE-SBS31_490_67
SAMPLE-SBS31_490_68
SAMPLE-SBS31_490_69
SAMPLE-SBS31_490_7
SAMPLE-SBS31_490_70
SAMPLE-SBS31_490_71
SAMPLE-SBS31_490_72
SAMPLE-SBS31_490_73
SAMPLE-SBS31_490_74
SAMPLE-SBS31_490_75
SAMPLE-SBS31_490_76
SAMPLE-SBS31_490_77
SAMPLE-SBS31_490_78
SAMPLE-SBS31_490_79
SAMPLE-SBS31_490_8
SAMPLE-SBS31_490_80
SAMPLE-SBS31_490_81
SAMPLE-SBS31_490_82
SAMPLE-SBS31_490_83
SAMPLE-SBS31_490_84
SAMPLE-SBS31_490_85
SAMPLE-SBS31_490_86
SAMPLE-SBS31_490_87
SAMPLE-SBS31_490_88
SAMPLE-SBS31_490_89
SAMPLE-SBS31_490_9

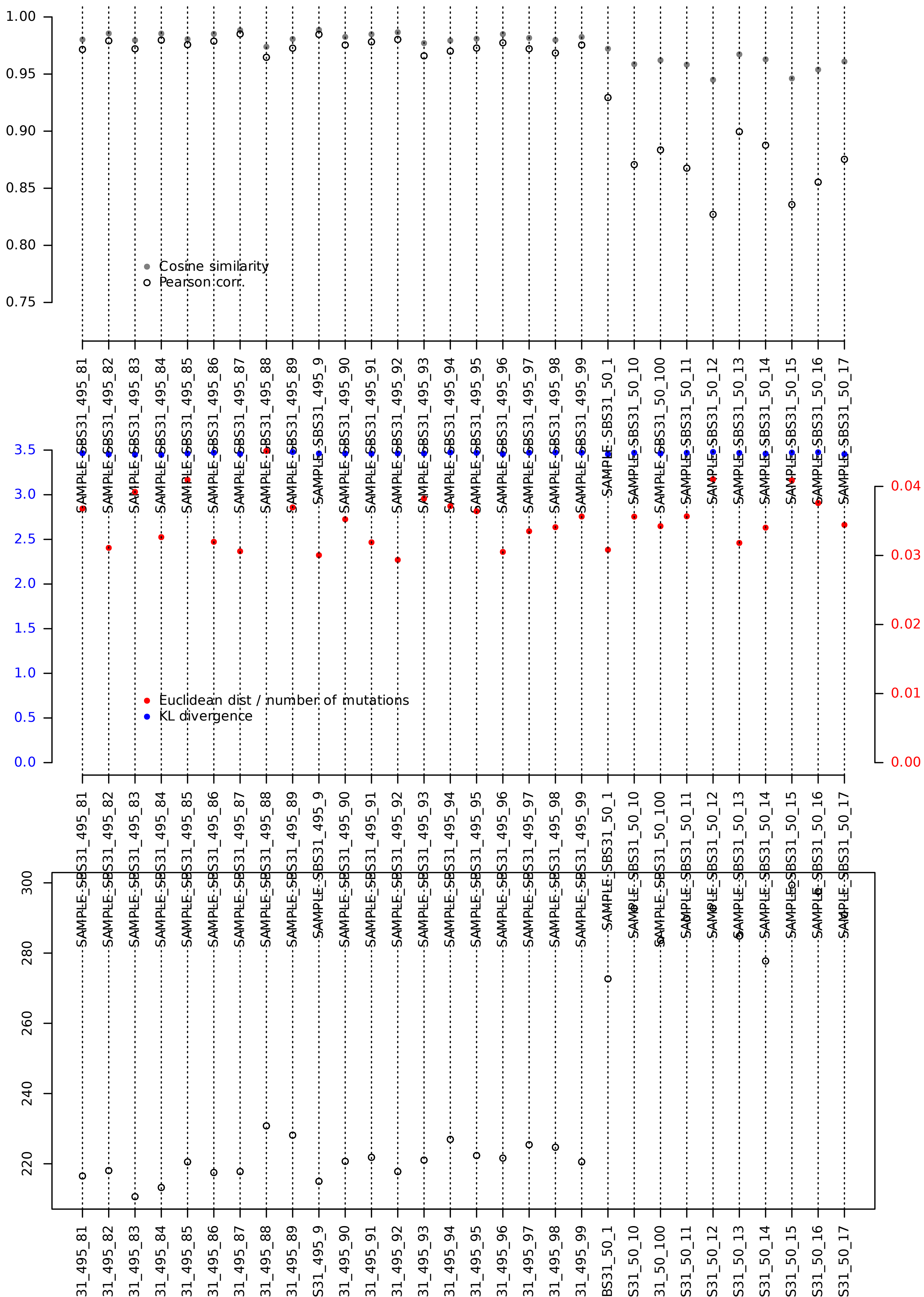
Reconstruction error

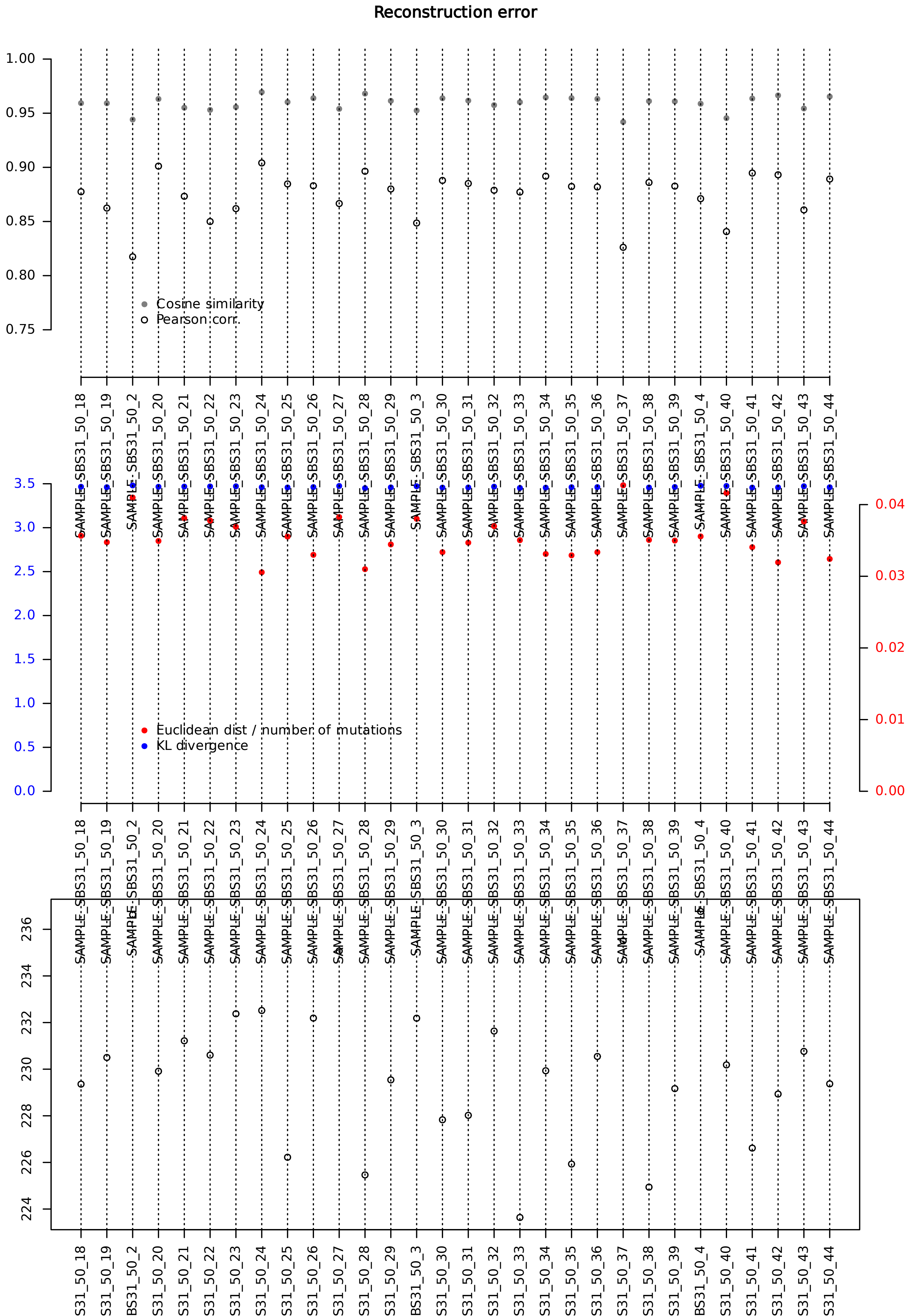


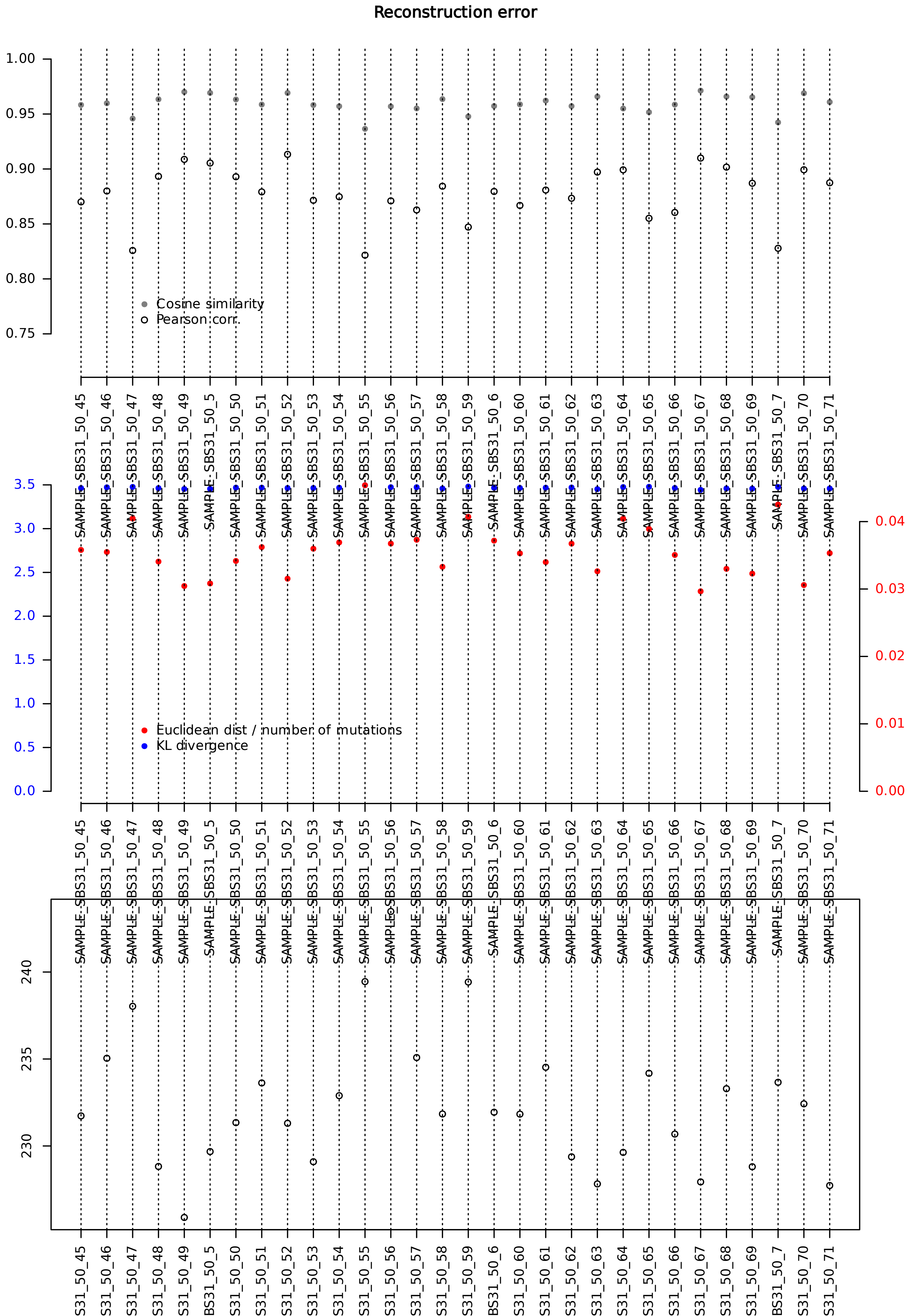

Reconstruction error
1.00
0.98
0.96
0.94
0.92
0.90
0.88
0.86
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
225
220
215
SAMPLE-SBS31_495_27
SAMPLE-SBS31_495_28
SAMPLE-SBS31_495_29
SAMPLE-SBS31_495_3
SAMPLE-SBS31_495_30
SAMPLE-SBS31_495_31
SAMPLE-SBS31_495_32
SAMPLE-SBS31_495_33
SAMPLE-SBS31_495_34
SAMPLE-SBS31_495_35
SAMPLE-SBS31_495_36
SAMPLE-SBS31_495_37
SAMPLE-SBS31_495_38
SAMPLE-SBS31_495_39
SAMPLE-SBS31_495_4
SAMPLE-SBS31_495_40
SAMPLE-SBS31_495_41
SAMPLE-SBS31_495_42
SAMPLE-SBS31_495_43
SAMPLE-SBS31_495_44
SAMPLE-SBS31_495_45
SAMPLE-SBS31_495_46
SAMPLE-SBS31_495_47
SAMPLE-SBS31_495_48
SAMPLE-SBS31_495_49
SAMPLE-SBS31_495_5
SAMPLE-SBS31_495_50
SAMPLE-SBS31_495_51
SAMPLE-SBS31_495_52
SAMPLE-SBS31_495_53

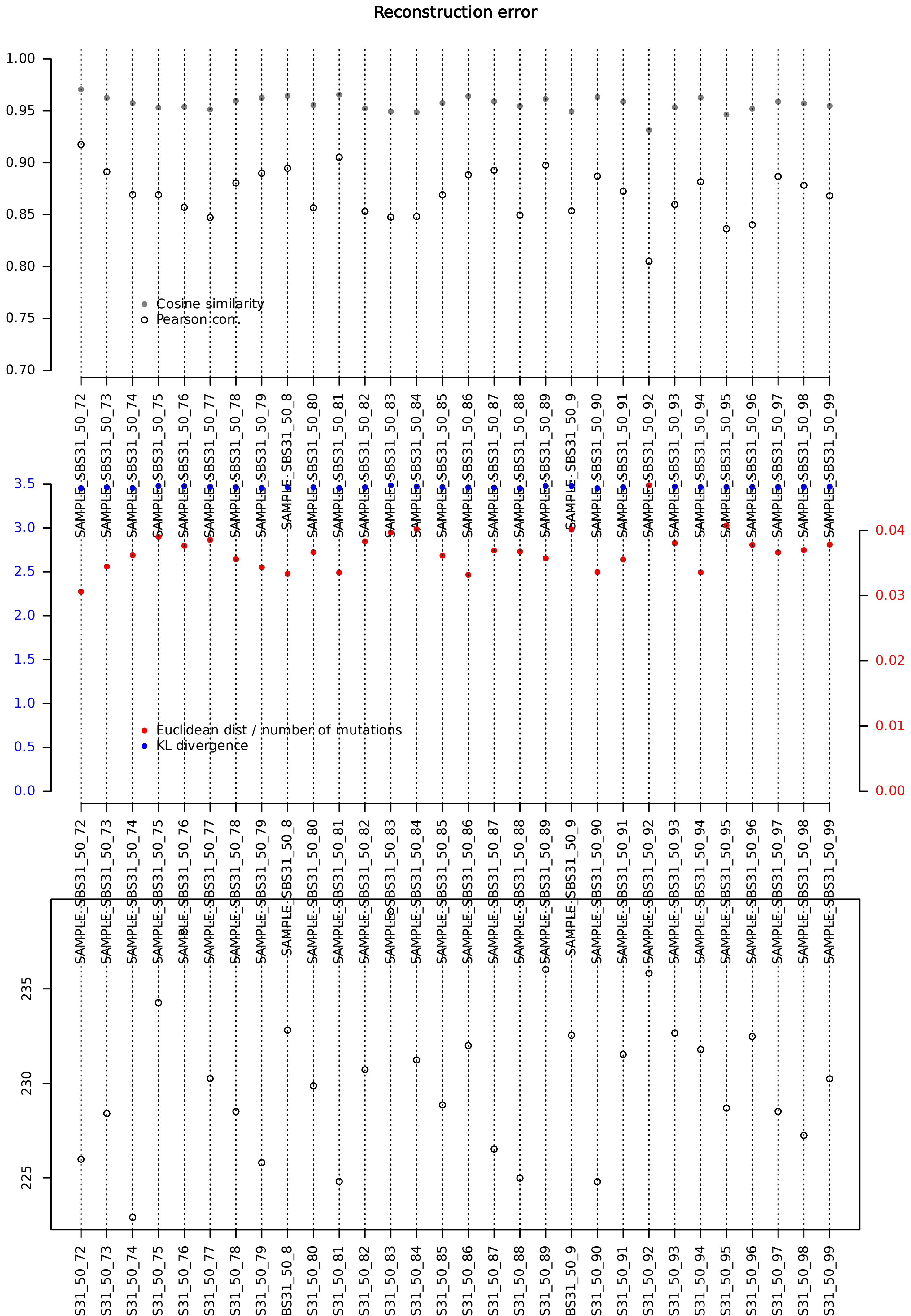

Reconstruction error
1.00
0.98
0.96
0.94
0.92
0.90
0.88
0.86
● Cosine similarity
○ Pearson corr.
SAMPLE-SBS31_495_54
SAMPLE-SBS31_495_55
SAMPLE-SBS31_495_56
SAMPLE-SBS31_495_57
SAMPLE-SBS31_495_58
SAMPLE-SBS31_495_59
SAMPLE-SBS31_495_6
SAMPLE-SBS31_495_60
SAMPLE-SBS31_495_61
SAMPLE-SBS31_495_62
SAMPLE-SBS31_495_63
SAMPLE-SBS31_495_64
SAMPLE-SBS31_495_65
SAMPLE-SBS31_495_66
SAMPLE-SBS31_495_67
SAMPLE-SBS31_495_68
SAMPLE-SBS31_495_69
SAMPLE-SBS31_495_7
SAMPLE-SBS31_495_70
SAMPLE-SBS31_495_71
SAMPLE-SBS31_495_72
SAMPLE-SBS31_495_73
SAMPLE-SBS31_495_74
SAMPLE-SBS31_495_75
SAMPLE-SBS31_495_76
SAMPLE-SBS31_495_77
SAMPLE-SBS31_495_78
SAMPLE-SBS31_495_79
SAMPLE-SBS31_495_8
SAMPLE-SBS31_495_80
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
● Euclidean dist / number of mutations
● KL divergence
225
220
215
210

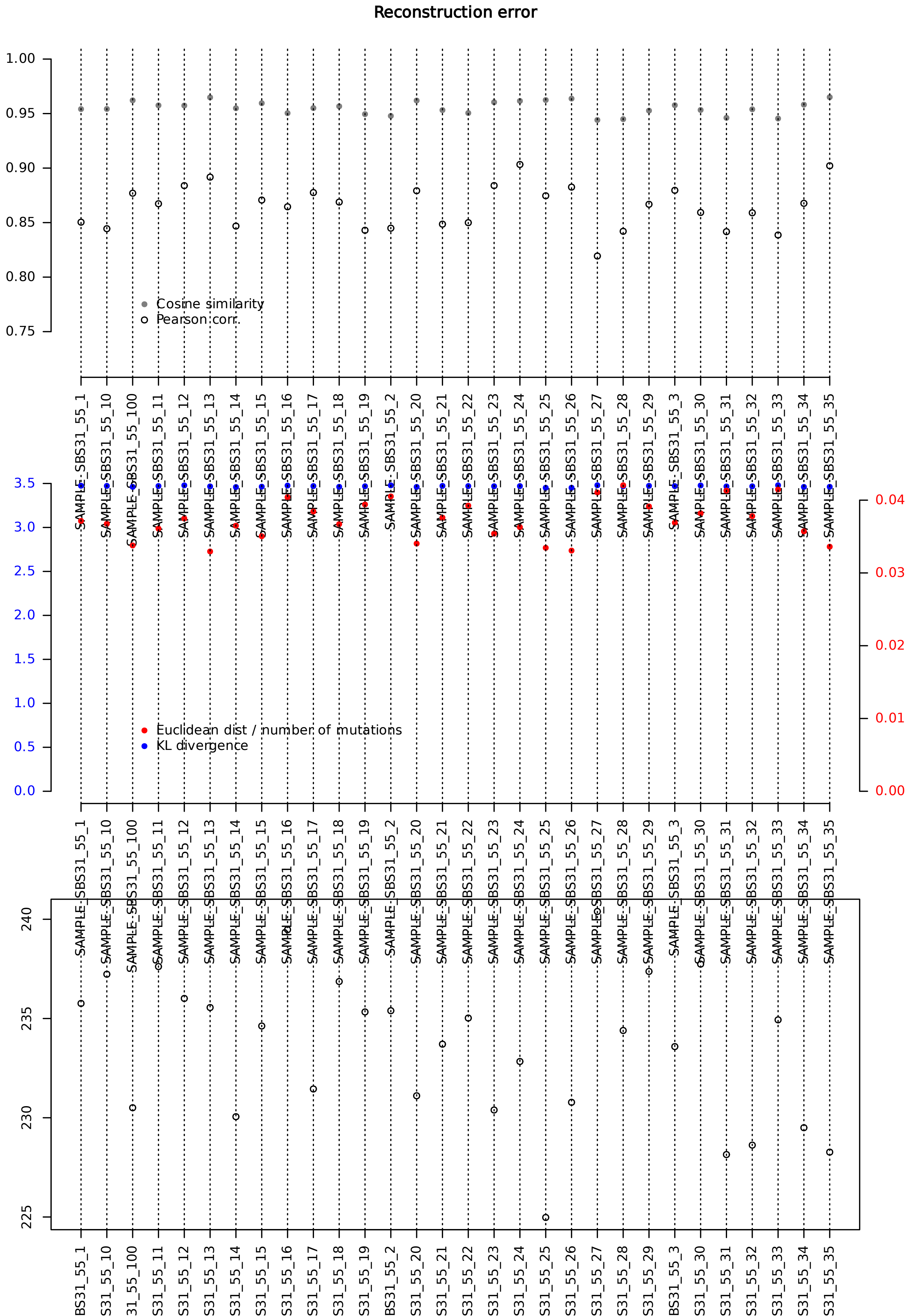
Reconstruction error



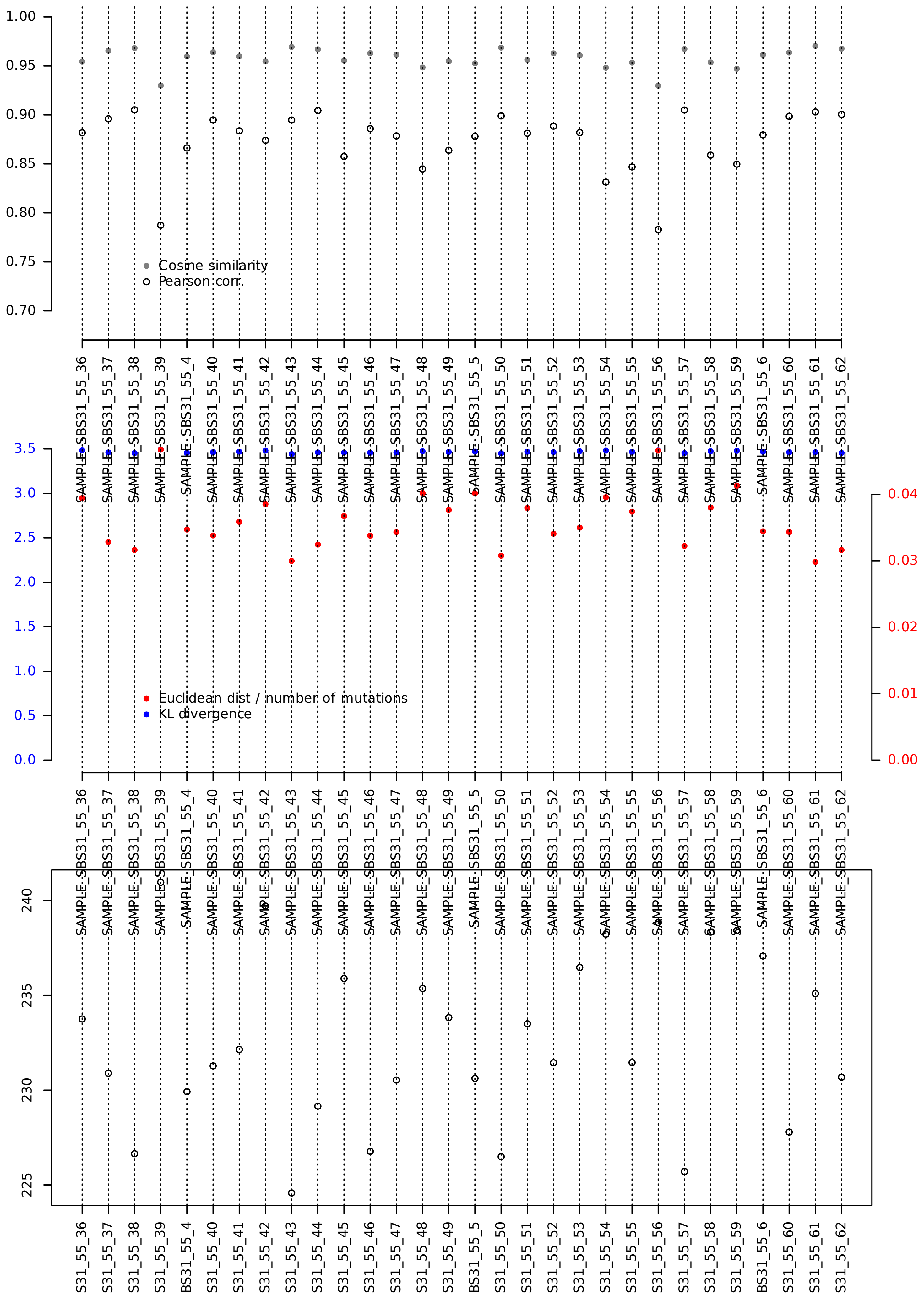

Reconstruction error
1.00
0.95
0.90
0.85
0.80
0.75
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
236
234
232
230
228
226
224
SAMPLE-SBS31_50_18
SAMPLE-SBS31_50_19
SAMPLE-SBS31_50_2
SAMPLE-SBS31_50_20
SAMPLE-SBS31_50_21
SAMPLE-SBS31_50_22
SAMPLE-SBS31_50_23
SAMPLE-SBS31_50_24
SAMPLE-SBS31_50_25
SAMPLE-SBS31_50_26
SAMPLE-SBS31_50_27
SAMPLE-SBS31_50_28
SAMPLE-SBS31_50_29
SAMPLE-SBS31_50_3
SAMPLE-SBS31_50_30
SAMPLE-SBS31_50_31
SAMPLE-SBS31_50_32
SAMPLE-SBS31_50_33
SAMPLE-SBS31_50_34
SAMPLE-SBS31_50_35
SAMPLE-SBS31_50_36
SAMPLE-SBS31_50_37
SAMPLE-SBS31_50_38
SAMPLE-SBS31_50_39
SAMPLE-SBS31_50_4
SAMPLE-SBS31_50_40
SAMPLE-SBS31_50_41
SAMPLE-SBS31_50_42
SAMPLE-SBS31_50_43
SAMPLE-SBS31_50_44

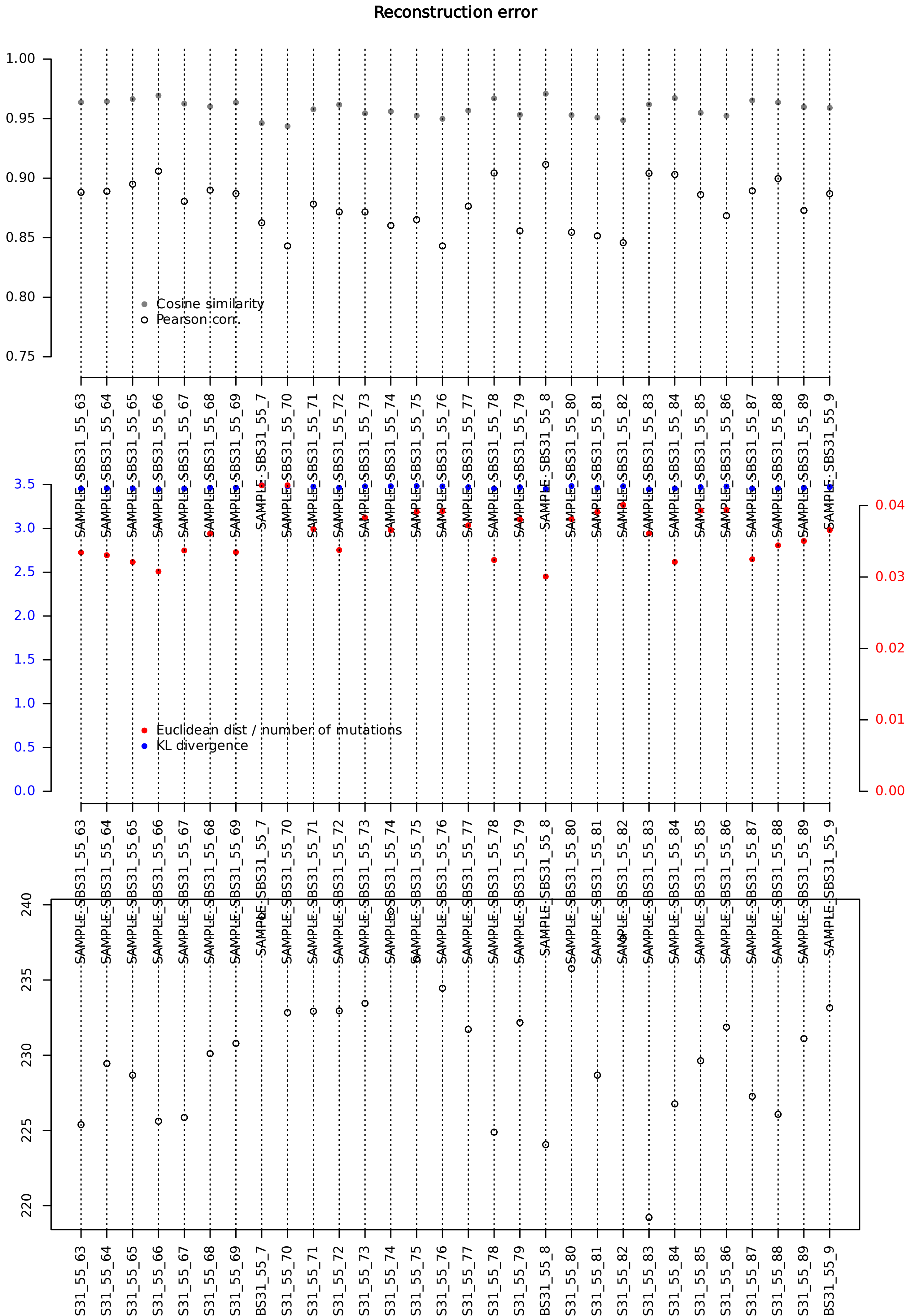

Reconstruction error
1.00
0.95
0.90
0.85
0.80
0.75
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
240
235
230
SAMPLE-SBS31_50_45
SAMPLE-SBS31_50_46
SAMPLE-SBS31_50_47
SAMPLE-SBS31_50_48
SAMPLE-SBS31_50_49
SAMPLE-SBS31_50_5
SAMPLE-SBS31_50_50
SAMPLE-SBS31_50_51
SAMPLE-SBS31_50_52
SAMPLE-SBS31_50_53
SAMPLE-SBS31_50_54
SAMPLE-SBS31_50_55
SAMPLE-SBS31_50_56
SAMPLE-SBS31_50_57
SAMPLE-SBS31_50_58
SAMPLE-SBS31_50_59
SAMPLE-SBS31_50_6
SAMPLE-SBS31_50_60
SAMPLE-SBS31_50_61
SAMPLE-SBS31_50_62
SAMPLE-SBS31_50_63
SAMPLE-SBS31_50_64
SAMPLE-SBS31_50_65
SAMPLE-SBS31_50_66
SAMPLE-SBS31_50_67
SAMPLE-SBS31_50_68
SAMPLE-SBS31_50_69
SAMPLE-SBS31_50_7
SAMPLE-SBS31_50_70
SAMPLE-SBS31_50_71

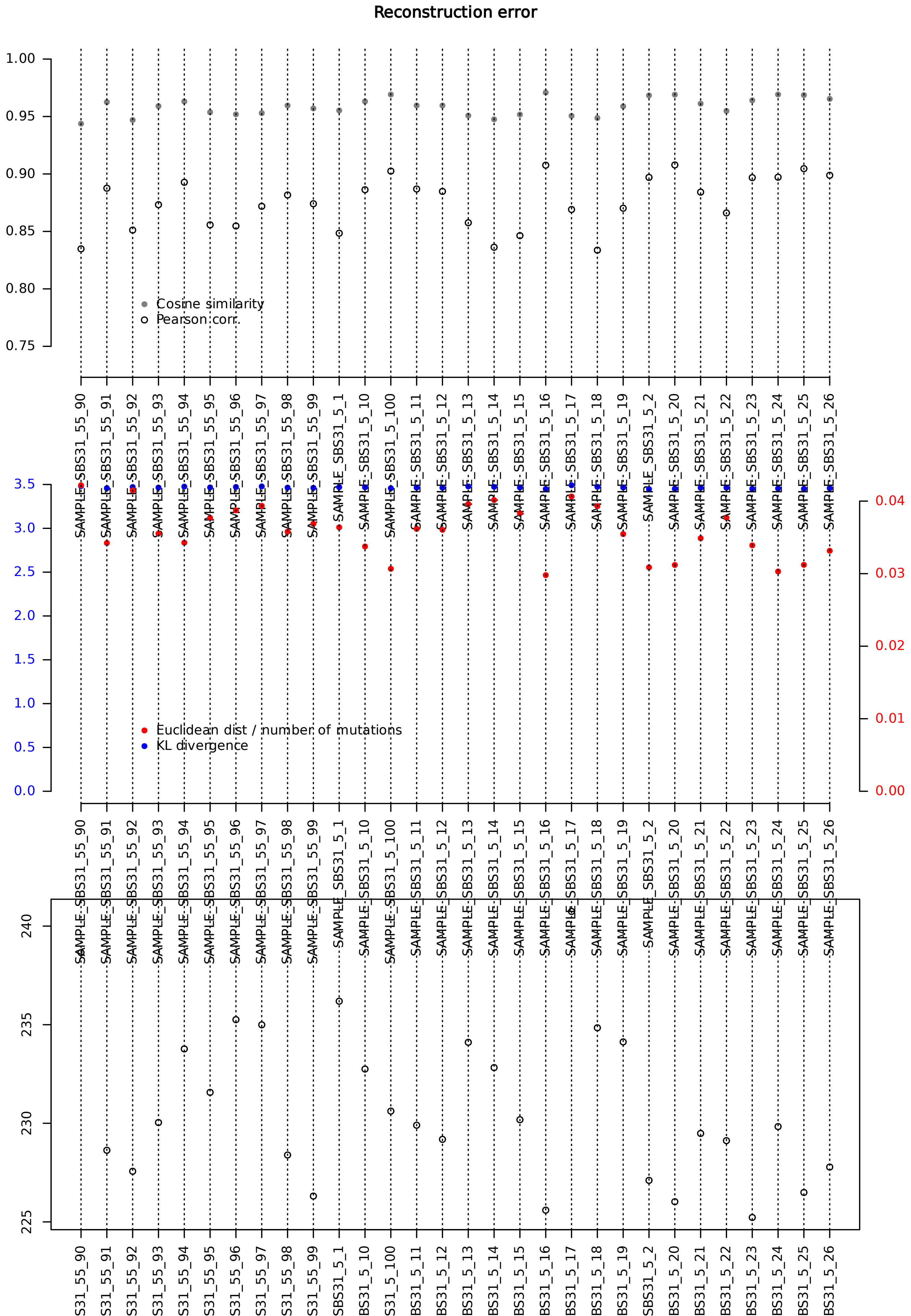

Reconstruction error
1.00
0.95
0.90
0.85
0.80
0.75
0.70
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
SAMPLE-SBS31_50_72
SAMPLE-SBS31_50_73
SAMPLE-SBS31_50_74
SAMPLE-SBS31_50_75
SAMPLE-SBS31_50_76
SAMPLE-SBS31_50_77
SAMPLE-SBS31_50_78
SAMPLE-SBS31_50_79
SAMPLE-SBS31_50_8
SAMPLE-SBS31_50_80
SAMPLE-SBS31_50_81
SAMPLE-SBS31_50_82
SAMPLE-SBS31_50_83
SAMPLE-SBS31_50_84
SAMPLE-SBS31_50_85
SAMPLE-SBS31_50_86
SAMPLE-SBS31_50_87
SAMPLE-SBS31_50_88
SAMPLE-SBS31_50_89
SAMPLE-SBS31_50_9
SAMPLE-SBS31_50_90
SAMPLE-SBS31_50_91
SAMPLE-SBS31_50_92
SAMPLE-SBS31_50_93
SAMPLE-SBS31_50_94
SAMPLE-SBS31_50_95
SAMPLE-SBS31_50_96
SAMPLE-SBS31_50_97
SAMPLE-SBS31_50_98
SAMPLE-SBS31_50_99

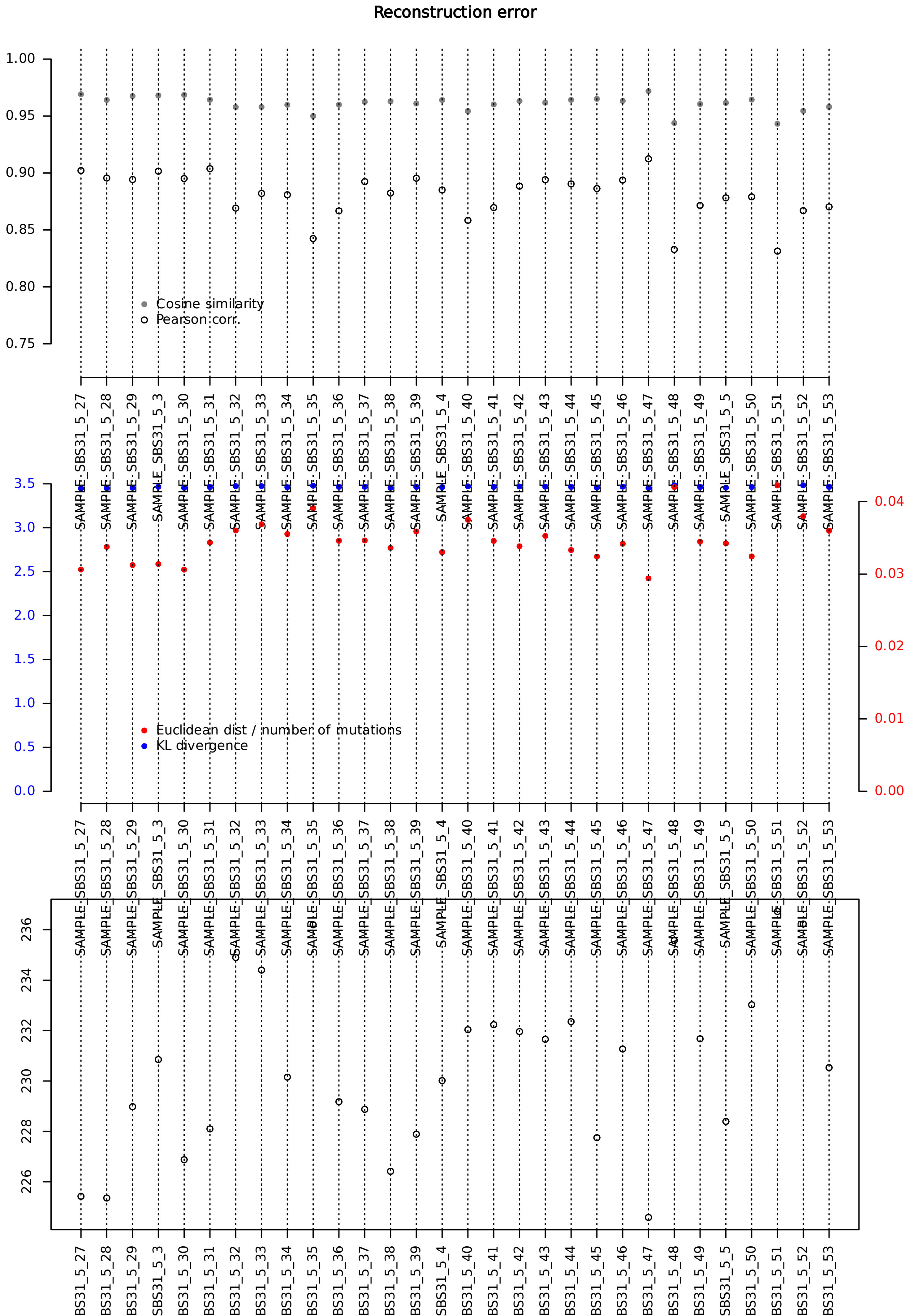

Reconstruction error
1.00
0.95
0.90
0.85
0.80
0.75
● Cosine similarity
○ Pearson corr.
SAMPLE-SBS31_55_1
SAMPLE-SBS31_55_10
SAMPLE-SBS31_55_100
SAMPLE-SBS31_55_11
SAMPLE-SBS31_55_12
SAMPLE-SBS31_55_13
SAMPLE-SBS31_55_14
SAMPLE-SBS31_55_15
SAMPLE-SBS31_55_16
SAMPLE-SBS31_55_17
SAMPLE-SBS31_55_18
SAMPLE-SBS31_55_19
SAMPLE-SBS31_55_2
SAMPLE-SBS31_55_20
SAMPLE-SBS31_55_21
SAMPLE-SBS31_55_22
SAMPLE-SBS31_55_23
SAMPLE-SBS31_55_24
SAMPLE-SBS31_55_25
SAMPLE-SBS31_55_26
SAMPLE-SBS31_55_27
SAMPLE-SBS31_55_28
SAMPLE-SBS31_55_29
SAMPLE-SBS31_55_3
SAMPLE-SBS31_55_30
SAMPLE-SBS31_55_31
SAMPLE-SBS31_55_32
SAMPLE-SBS31_55_33
SAMPLE-SBS31_55_34
SAMPLE-SBS31_55_35
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
● Euclidean dist / number of mutations
● KL divergence
240
235
230
225
BS31_55_1
S31_55_10
31_55_100
S31_55_11
S31_55_12
S31_55_13
S31_55_14
S31_55_15
S31_55_16
S31_55_17
S31_55_18
S31_55_19
BS31_55_2
S31_55_20
S31_55_21
S31_55_22
S31_55_23
S31_55_24
S31_55_25
S31_55_26
S31_55_27
S31_55_28
S31_55_29
BS31_55_3
S31_55_30
S31_55_31
S31_55_32
S31_55_33
S31_55_34
S31_55_35

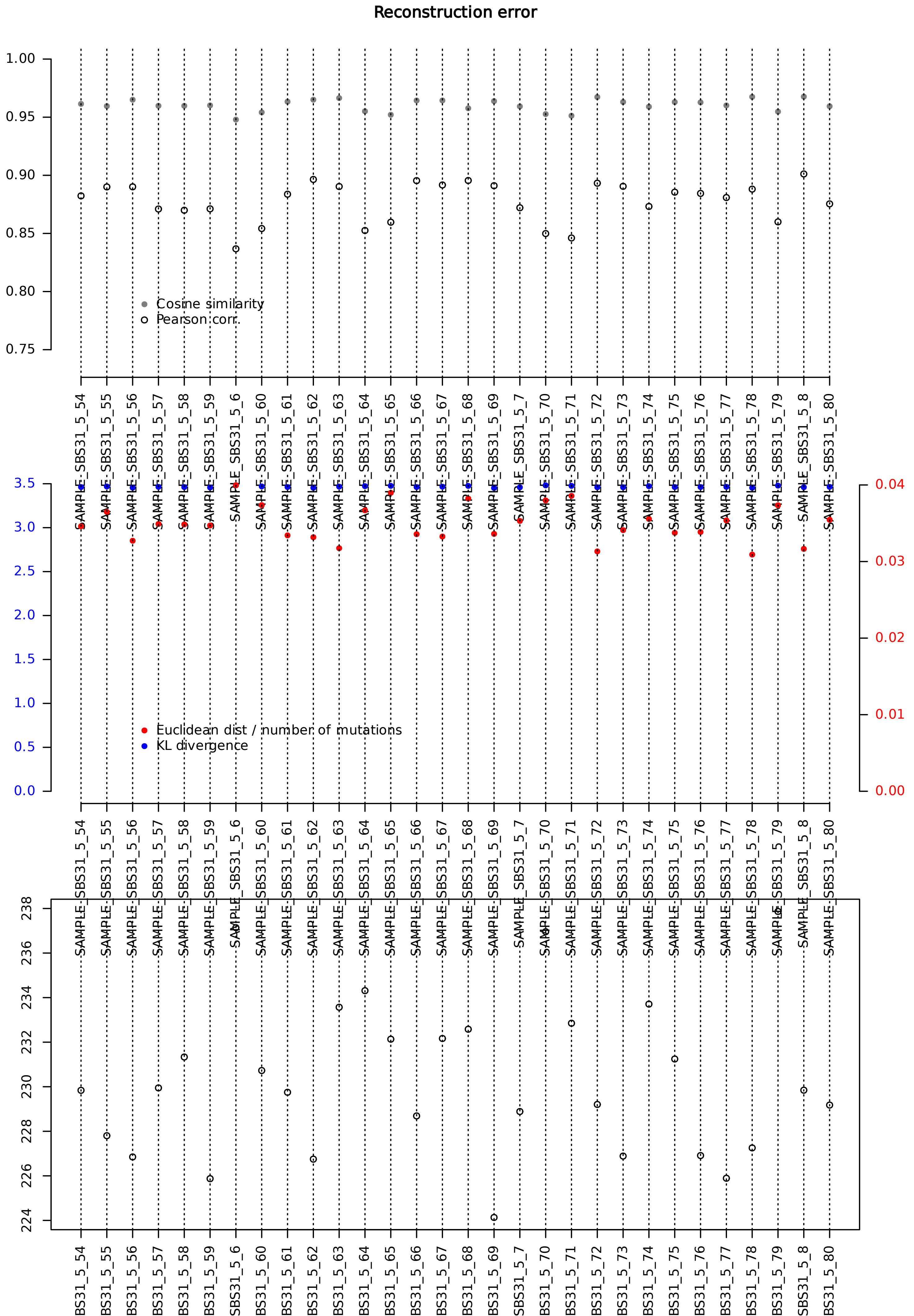
Reconstruction error

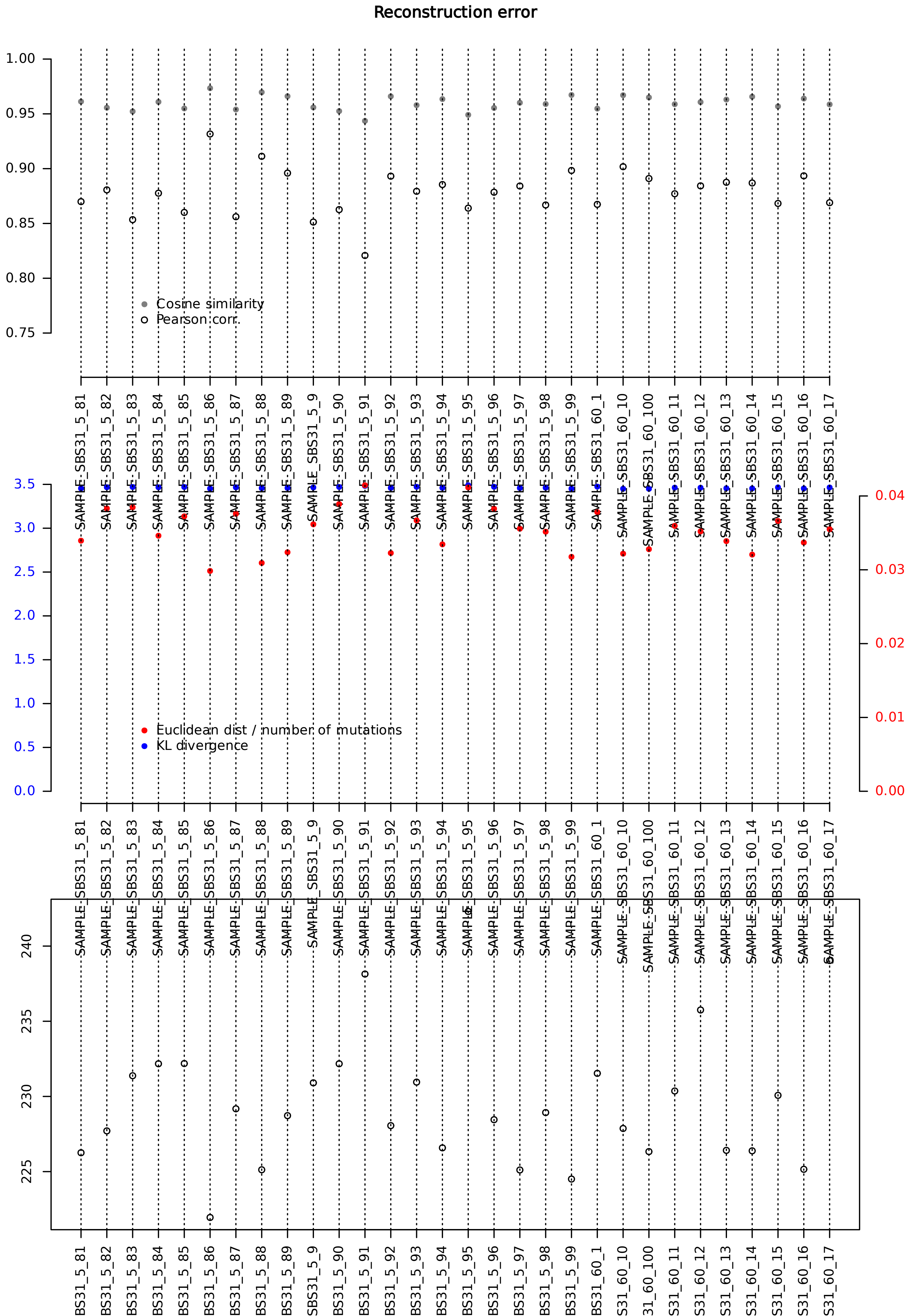


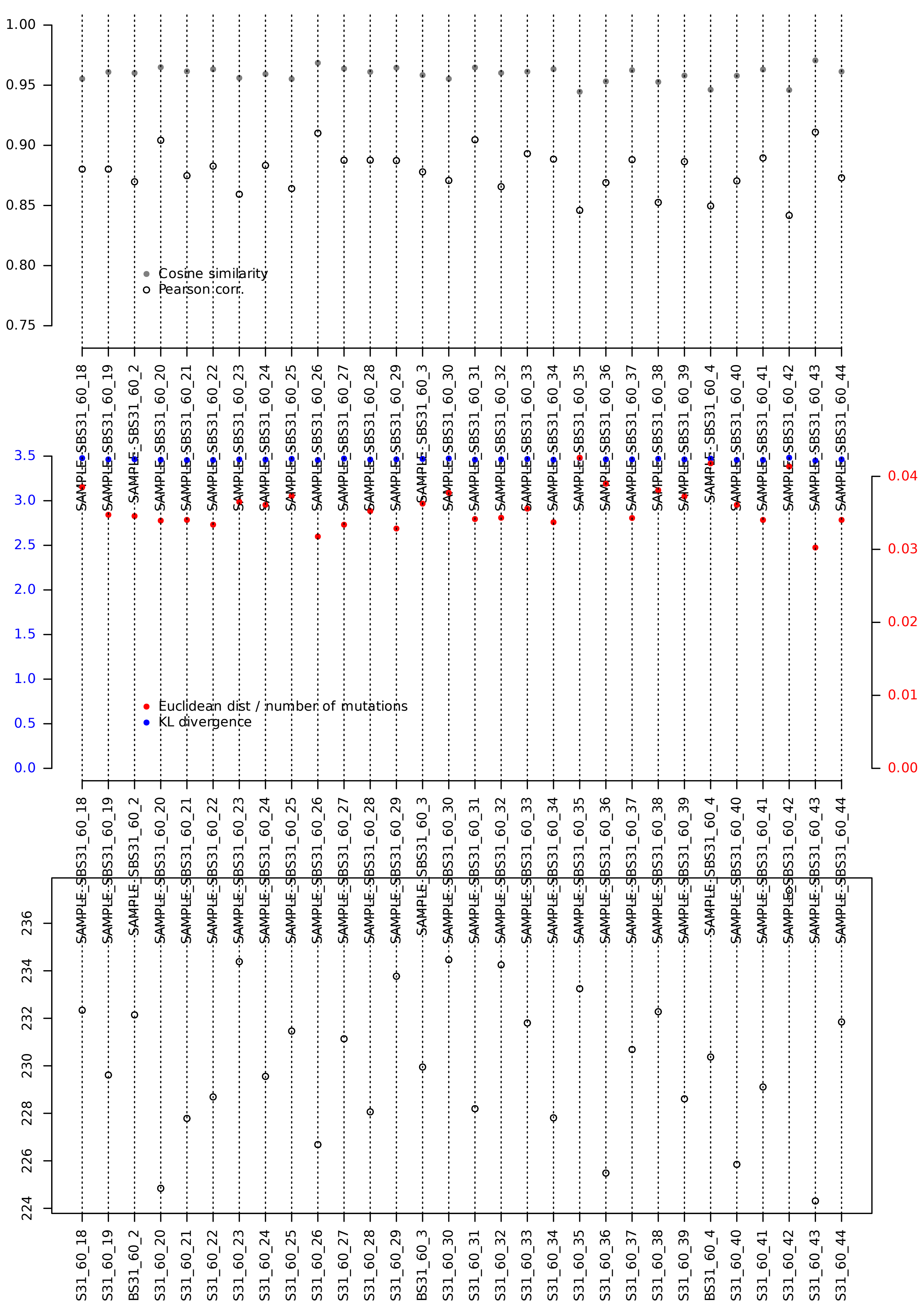

Reconstruction error
1.00
0.95
0.90
0.85
0.80
0.75
Cosine similarity
Pearson corr.
SAMPLE-SBS31_55_63
SAMPLE-SBS31_55_64
SAMPLE-SBS31_55_65
SAMPLE-SBS31_55_66
SAMPLE-SBS31_55_67
SAMPLE-SBS31_55_68
SAMPLE-SBS31_55_69
SAMPLE-SBS31_55_7
SAMPLE-SBS31_55_70
SAMPLE-SBS31_55_71
SAMPLE-SBS31_55_72
SAMPLE-SBS31_55_73
SAMPLE-SBS31_55_74
SAMPLE-SBS31_55_75
SAMPLE-SBS31_55_76
SAMPLE-SBS31_55_77
SAMPLE-SBS31_55_78
SAMPLE-SBS31_55_79
SAMPLE-SBS31_55_8
SAMPLE-SBS31_55_80
SAMPLE-SBS31_55_81
SAMPLE-SBS31_55_82
SAMPLE-SBS31_55_83
SAMPLE-SBS31_55_84
SAMPLE-SBS31_55_85
SAMPLE-SBS31_55_86
SAMPLE-SBS31_55_87
SAMPLE-SBS31_55_88
SAMPLE-SBS31_55_89
SAMPLE-SBS31_55_9
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
240
235
230
225
220


Reconstruction error
1.00
0.95
0.90
0.85
0.80
0.75
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
240
235
230
225
SAMPLE_SBS31_55_90
SAMPLE_SBS31_55_91
SAMPLE_SBS31_55_92
SAMPLE_SBS31_55_93
SAMPLE_SBS31_55_94
SAMPLE_SBS31_55_95
SAMPLE_SBS31_55_96
SAMPLE_SBS31_55_97
SAMPLE_SBS31_55_98
SAMPLE_SBS31_55_99
SAMPLE_SBS31_5_1
SAMPLE_SBS31_5_10
SAMPLE_SBS31_5_100
SAMPLE_SBS31_5_11
SAMPLE_SBS31_5_12
SAMPLE_SBS31_5_13
SAMPLE_SBS31_5_14
SAMPLE_SBS31_5_15
SAMPLE_SBS31_5_16
SAMPLE_SBS31_5_17
SAMPLE_SBS31_5_18
SAMPLE_SBS31_5_19
SAMPLE_SBS31_5_2
SAMPLE_SBS31_5_20
SAMPLE_SBS31_5_21
SAMPLE_SBS31_5_22
SAMPLE_SBS31_5_23
SAMPLE_SBS31_5_24
SAMPLE_SBS31_5_25
SAMPLE_SBS31_5_26

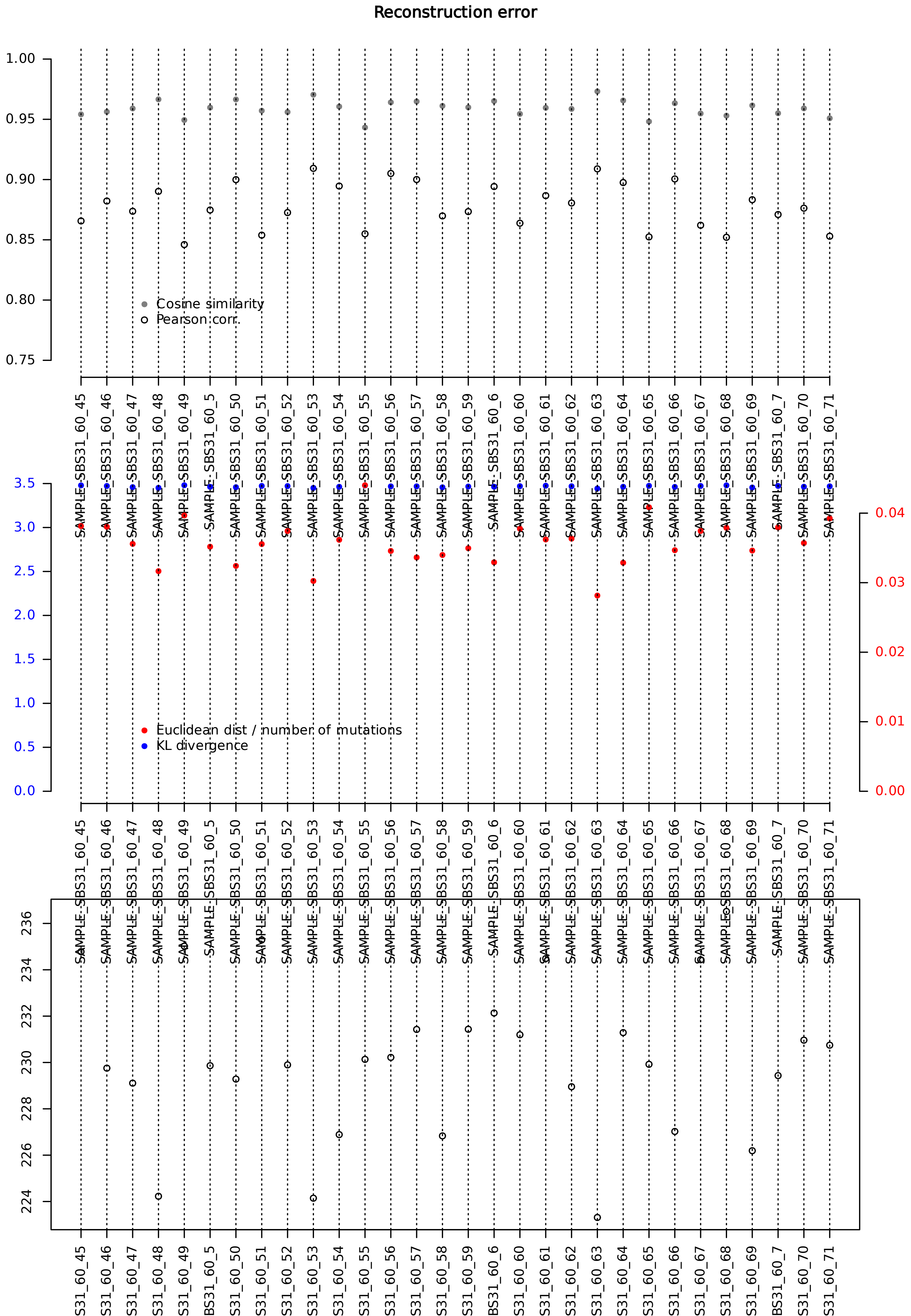

Reconstruction error
1.00
0.95
0.90
0.85
0.80
0.75
Cosine similarity
Pearson corr.
SAMPLE_SBS31_5_27
SAMPLE_SBS31_5_28
SAMPLE_SBS31_5_29
SAMPLE_SBS31_5_3
SAMPLE_SBS31_5_30
SAMPLE_SBS31_5_31
SAMPLE_SBS31_5_32
SAMPLE_SBS31_5_33
SAMPLE_SBS31_5_34
SAMPLE_SBS31_5_35
SAMPLE_SBS31_5_36
SAMPLE_SBS31_5_37
SAMPLE_SBS31_5_38
SAMPLE_SBS31_5_39
SAMPLE_SBS31_5_4
SAMPLE_SBS31_5_40
SAMPLE_SBS31_5_41
SAMPLE_SBS31_5_42
SAMPLE_SBS31_5_43
SAMPLE_SBS31_5_44
SAMPLE_SBS31_5_45
SAMPLE_SBS31_5_46
SAMPLE_SBS31_5_47
SAMPLE_SBS31_5_48
SAMPLE_SBS31_5_49
SAMPLE_SBS31_5_5
SAMPLE_SBS31_5_50
SAMPLE_SBS31_5_51
SAMPLE_SBS31_5_52
SAMPLE_SBS31_5_53
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
236
234
232
230
228
226

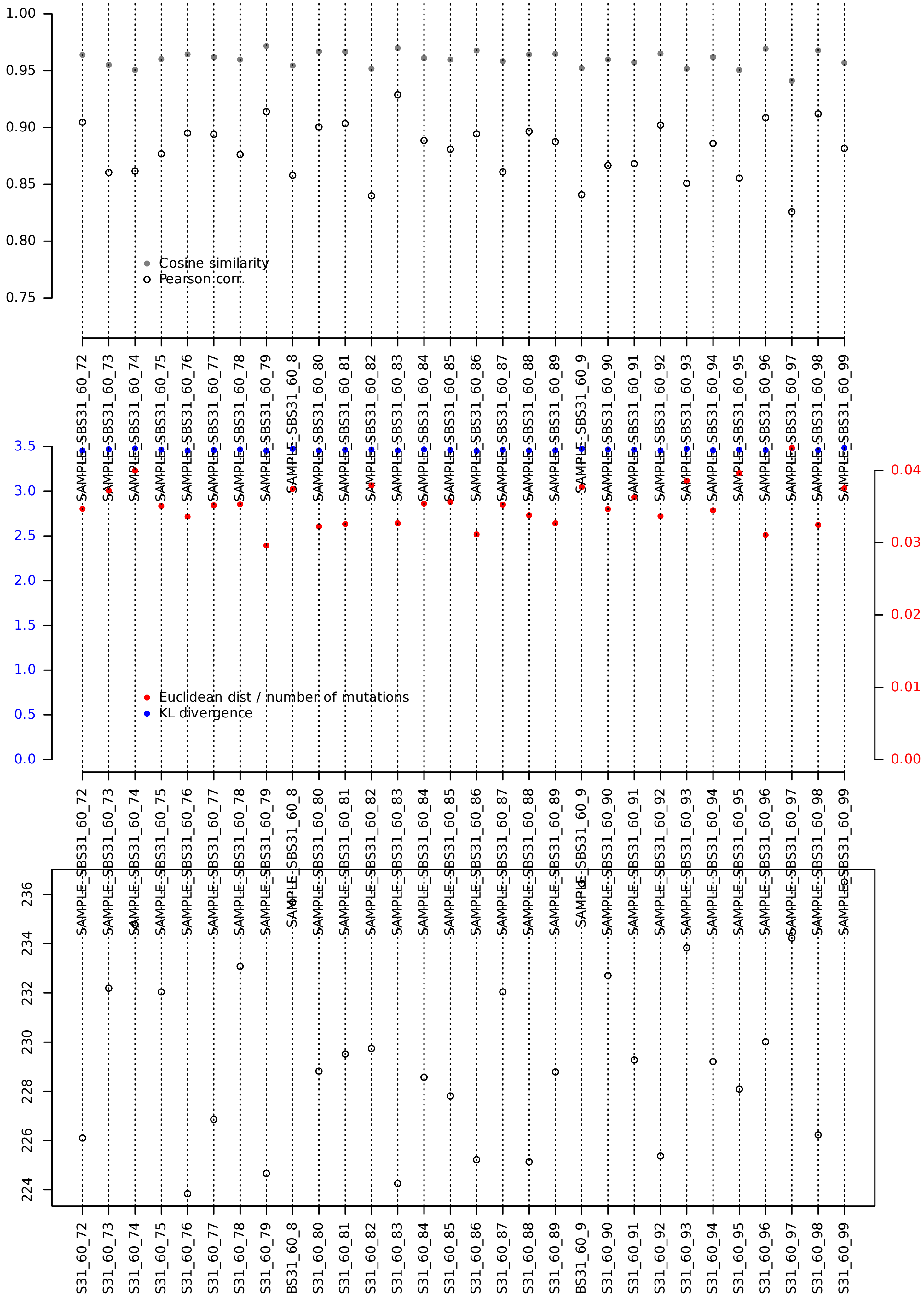

Reconstruction error
1.00
0.95
0.90
0.85
0.80
0.75
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
238
236
234
232
230
228
226
224
SAMPLE_SBS31_5_54
SAMPLE_SBS31_5_55
SAMPLE_SBS31_5_56
SAMPLE_SBS31_5_57
SAMPLE_SBS31_5_58
SAMPLE_SBS31_5_59
SAMPLE_SBS31_5_6
SAMPLE_SBS31_5_60
SAMPLE_SBS31_5_61
SAMPLE_SBS31_5_62
SAMPLE_SBS31_5_63
SAMPLE_SBS31_5_64
SAMPLE_SBS31_5_65
SAMPLE_SBS31_5_66
SAMPLE_SBS31_5_67
SAMPLE_SBS31_5_68
SAMPLE_SBS31_5_69
SAMPLE_SBS31_5_7
SAMPLE_SBS31_5_70
SAMPLE_SBS31_5_71
SAMPLE_SBS31_5_72
SAMPLE_SBS31_5_73
SAMPLE_SBS31_5_74
SAMPLE_SBS31_5_75
SAMPLE_SBS31_5_76
SAMPLE_SBS31_5_77
SAMPLE_SBS31_5_78
SAMPLE_SBS31_5_79
SAMPLE_SBS31_5_8
SAMPLE_SBS31_5_80

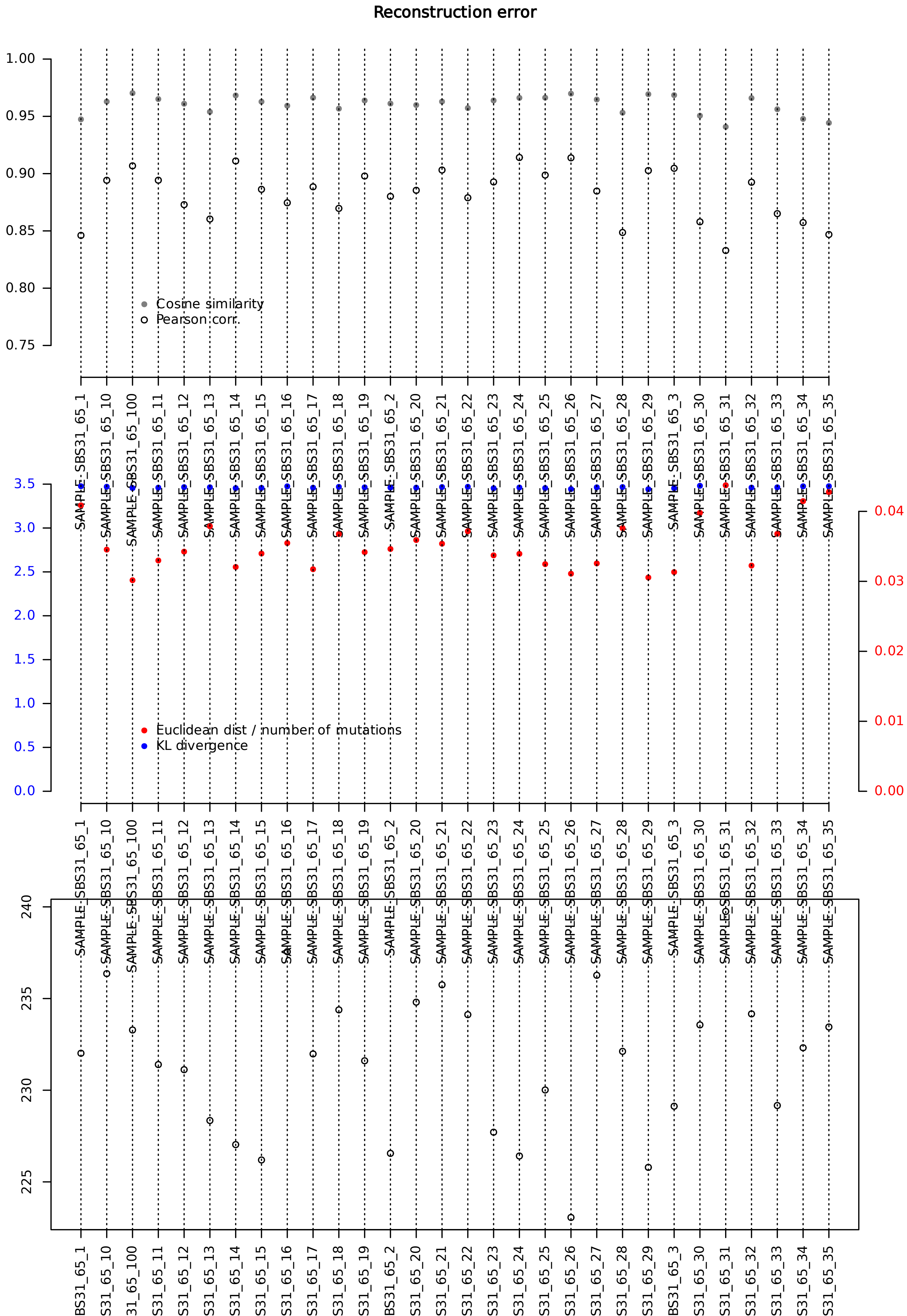

Reconstruction error
1.00
0.95
0.90
0.85
0.80
0.75
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
240
235
230
225
SAMPLE-SBS31_5_81
SAMPLE-SBS31_5_82
SAMPLE-SBS31_5_83
SAMPLE-SBS31_5_84
SAMPLE-SBS31_5_85
SAMPLE-SBS31_5_86
SAMPLE-SBS31_5_87
SAMPLE-SBS31_5_88
SAMPLE-SBS31_5_89
SAMPLE_SBS31_5_9
SAMPLE-SBS31_5_90
SAMPLE-SBS31_5_91
SAMPLE-SBS31_5_92
SAMPLE-SBS31_5_93
SAMPLE-SBS31_5_94
SAMPLE-SBS31_5_95
SAMPLE-SBS31_5_96
SAMPLE-SBS31_5_97
SAMPLE-SBS31_5_98
SAMPLE-SBS31_5_99
SAMPLE-SBS31_60_1
SAMPLE-SBS31_60_10
SAMPLE-SBS31_60_100
SAMPLE-SBS31_60_11
SAMPLE-SBS31_60_12
SAMPLE-SBS31_60_13
SAMPLE-SBS31_60_14
SAMPLE-SBS31_60_15
SAMPLE-SBS31_60_16
SAMPLE-SBS31_60_17



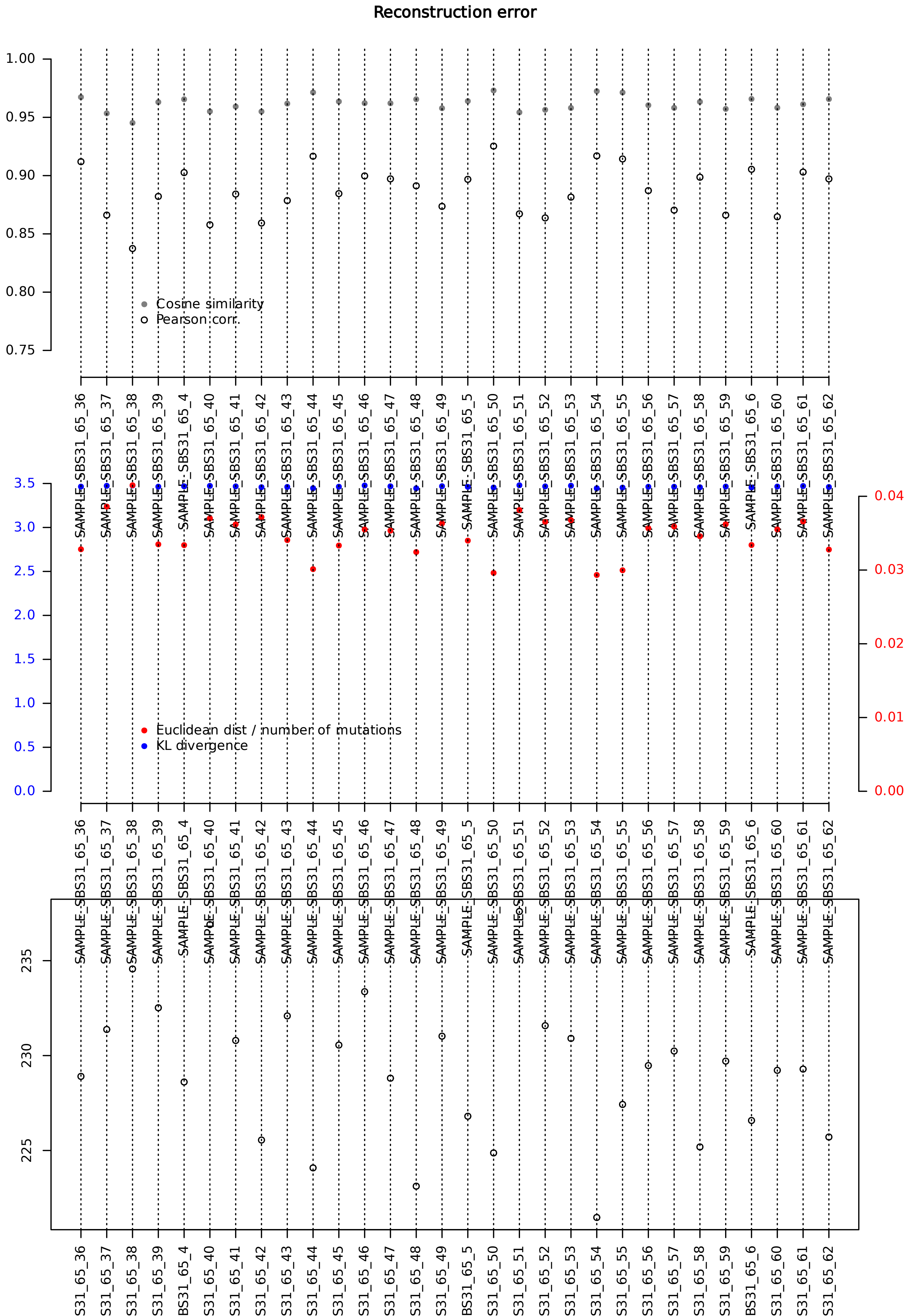
Reconstruction error

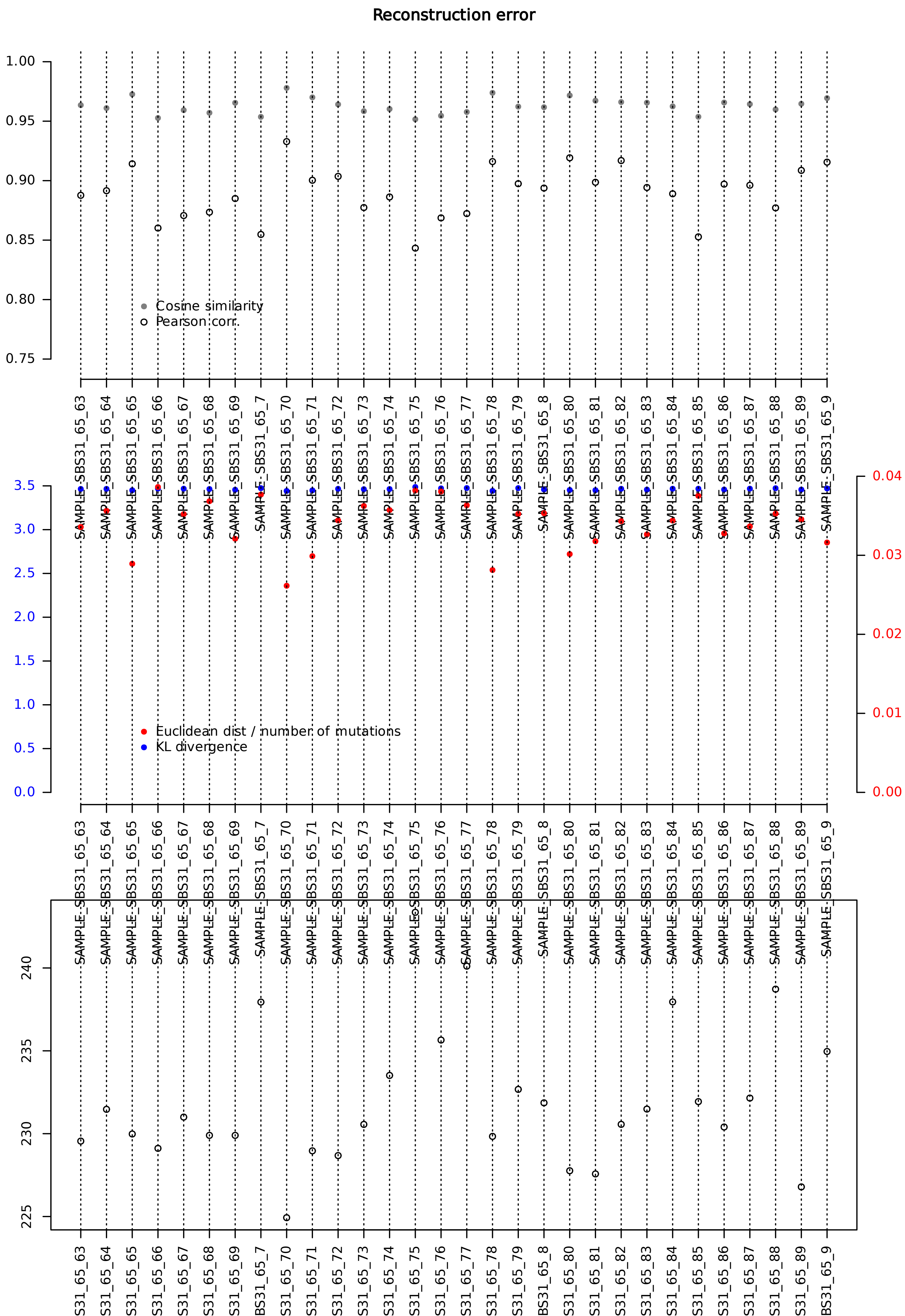

Reconstruction error
1.00
0.95
0.90
0.85
0.80
0.75
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
236
234
232
230
228
226
224
SAMPLE-SBS31_60_45
SAMPLE-SBS31_60_46
SAMPLE-SBS31_60_47
SAMPLE-SBS31_60_48
SAMPLE-SBS31_60_49
SAMPLE-SBS31_60_5
SAMPLE-SBS31_60_50
SAMPLE-SBS31_60_51
SAMPLE-SBS31_60_52
SAMPLE-SBS31_60_53
SAMPLE-SBS31_60_54
SAMPLE-SBS31_60_55
SAMPLE-SBS31_60_56
SAMPLE-SBS31_60_57
SAMPLE-SBS31_60_58
SAMPLE-SBS31_60_59
SAMPLE-SBS31_60_6
SAMPLE-SBS31_60_60
SAMPLE-SBS31_60_61
SAMPLE-SBS31_60_62
SAMPLE-SBS31_60_63
SAMPLE-SBS31_60_64
SAMPLE-SBS31_60_65
SAMPLE-SBS31_60_66
SAMPLE-SBS31_60_67
SAMPLE-SBS31_60_68
SAMPLE-SBS31_60_69
SAMPLE-SBS31_60_7
SAMPLE-SBS31_60_70
SAMPLE-SBS31_60_71

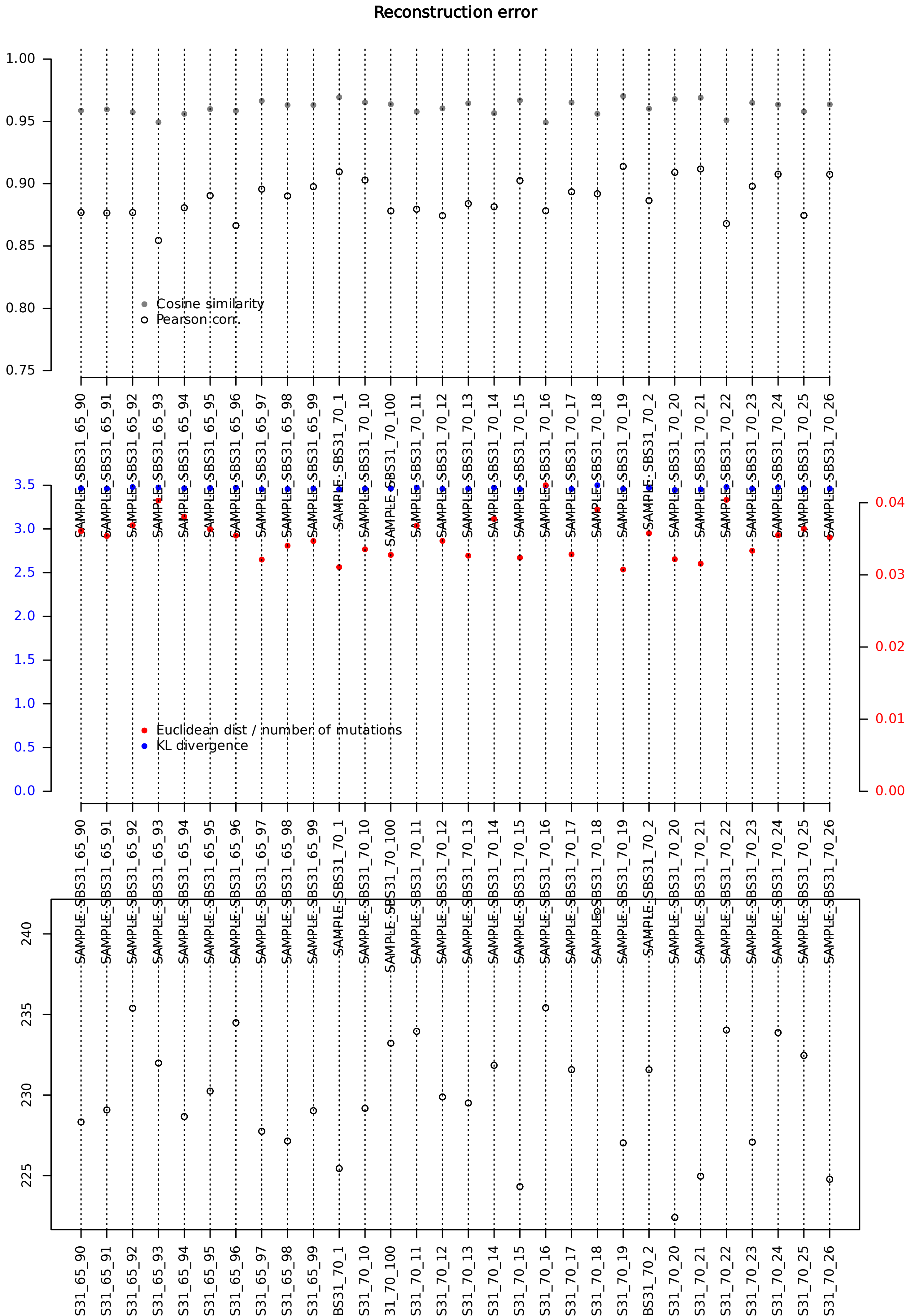

Reconstruction error

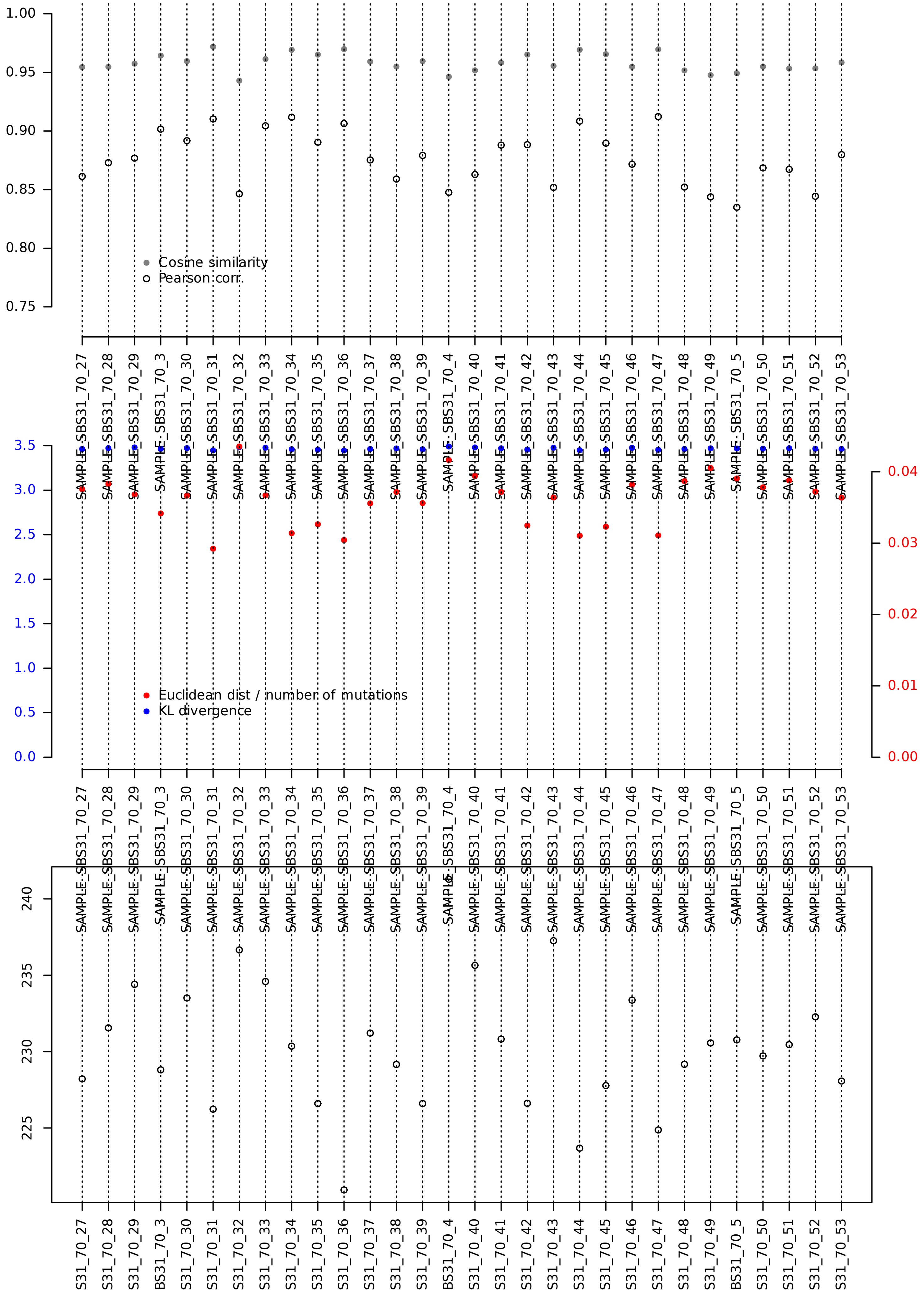


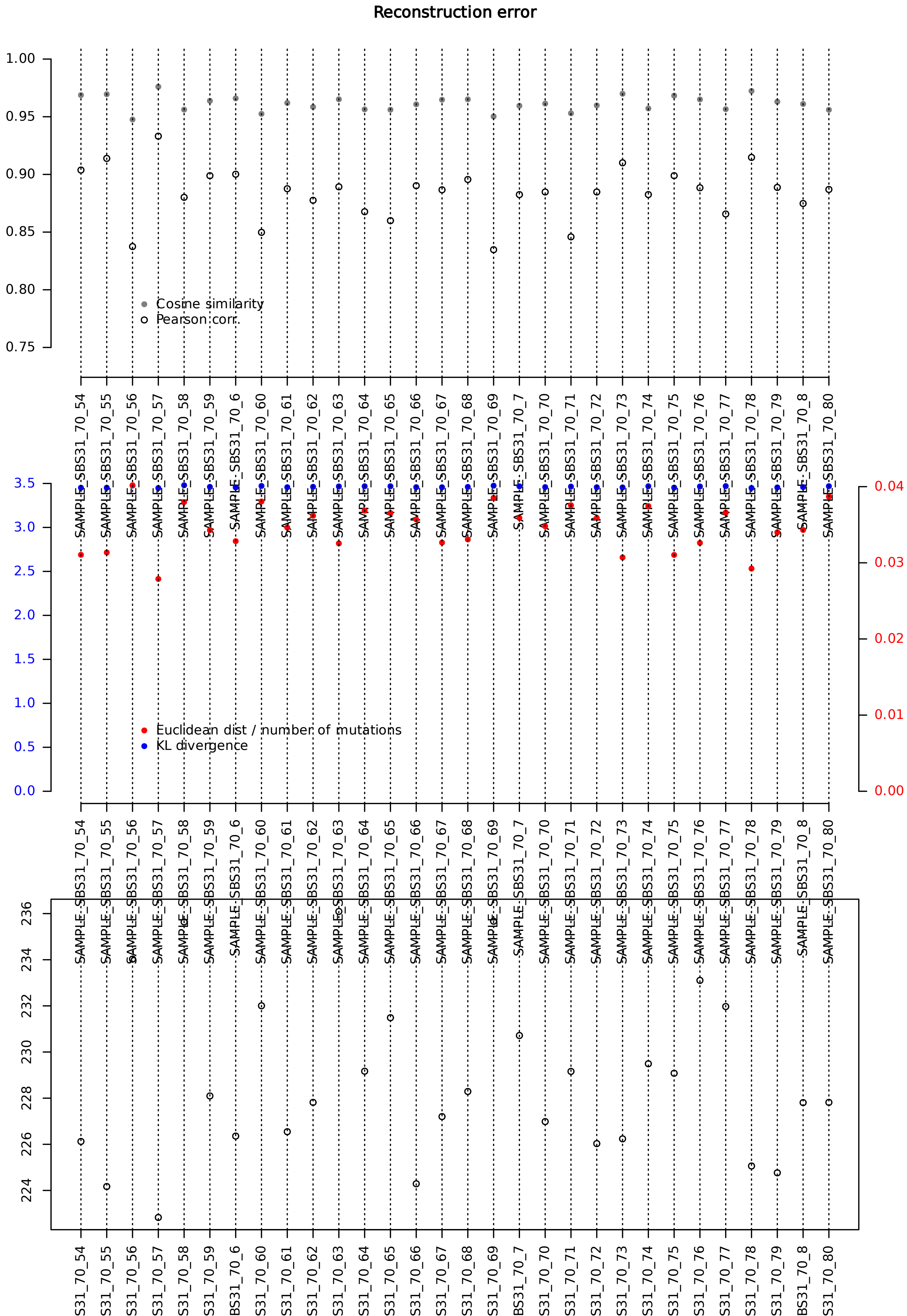
Reconstruction error


Reconstruction error
1.00
0.95
0.90
0.85
0.80
0.75
Cosine similarity
Pearson corr.
SAMPLE-SBS31_65_36
SAMPLE-SBS31_65_37
SAMPLE-SBS31_65_38
SAMPLE-SBS31_65_39
SAMPLE-SBS31_65_4
SAMPLE-SBS31_65_40
SAMPLE-SBS31_65_41
SAMPLE-SBS31_65_42
SAMPLE-SBS31_65_43
SAMPLE-SBS31_65_44
SAMPLE-SBS31_65_45
SAMPLE-SBS31_65_46
SAMPLE-SBS31_65_47
SAMPLE-SBS31_65_48
SAMPLE-SBS31_65_49
SAMPLE-SBS31_65_5
SAMPLE-SBS31_65_50
SAMPLE-SBS31_65_51
SAMPLE-SBS31_65_52
SAMPLE-SBS31_65_53
SAMPLE-SBS31_65_54
SAMPLE-SBS31_65_55
SAMPLE-SBS31_65_56
SAMPLE-SBS31_65_57
SAMPLE-SBS31_65_58
SAMPLE-SBS31_65_59
SAMPLE-SBS31_65_6
SAMPLE-SBS31_65_60
SAMPLE-SBS31_65_61
SAMPLE-SBS31_65_62
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225


Reconstruction error
1.00
0.95
0.90
0.85
0.80
0.75
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
240
235
230
225
SAMPLE_SBS31_65_63
SAMPLE_SBS31_65_64
SAMPLE_SBS31_65_65
SAMPLE_SBS31_65_66
SAMPLE_SBS31_65_67
SAMPLE_SBS31_65_68
SAMPLE_SBS31_65_69
SAMPLE_SBS31_65_7
SAMPLE_SBS31_65_70
SAMPLE_SBS31_65_71
SAMPLE_SBS31_65_72
SAMPLE_SBS31_65_73
SAMPLE_SBS31_65_74
SAMPLE_SBS31_65_75
SAMPLE_SBS31_65_76
SAMPLE_SBS31_65_77
SAMPLE_SBS31_65_78
SAMPLE_SBS31_65_79
SAMPLE_SBS31_65_8
SAMPLE_SBS31_65_80
SAMPLE_SBS31_65_81
SAMPLE_SBS31_65_82
SAMPLE_SBS31_65_83
SAMPLE_SBS31_65_84
SAMPLE_SBS31_65_85
SAMPLE_SBS31_65_86
SAMPLE_SBS31_65_87
SAMPLE_SBS31_65_88
SAMPLE_SBS31_65_89
SAMPLE_SBS31_65_9


Reconstruction error
1.00
0.95
0.90
0.85
0.80
0.75
Cosine similarity
Pearson corr.
SAMPLE-SBS31_65_90
SAMPLE-SBS31_65_91
SAMPLE-SBS31_65_92
SAMPLE-SBS31_65_93
SAMPLE-SBS31_65_94
SAMPLE-SBS31_65_95
SAMPLE-SBS31_65_96
SAMPLE-SBS31_65_97
SAMPLE-SBS31_65_98
SAMPLE-SBS31_65_99
SAMPLE-SBS31_70_1
SAMPLE-SBS31_70_10
SAMPLE-SBS31_70_100
SAMPLE-SBS31_70_11
SAMPLE-SBS31_70_12
SAMPLE-SBS31_70_13
SAMPLE-SBS31_70_14
SAMPLE-SBS31_70_15
SAMPLE-SBS31_70_16
SAMPLE-SBS31_70_17
SAMPLE-SBS31_70_18
SAMPLE-SBS31_70_19
SAMPLE-SBS31_70_2
SAMPLE-SBS31_70_20
SAMPLE-SBS31_70_21
SAMPLE-SBS31_70_22
SAMPLE-SBS31_70_23
SAMPLE-SBS31_70_24
SAMPLE-SBS31_70_25
SAMPLE-SBS31_70_26
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
240
235
230
225


Reconstruction error


Reconstruction error
1.00
0.95
0.90
0.85
0.80
0.75
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
236
234
232
230
228
226
224
SAMPLE_SBS31_70_54
SAMPLE_SBS31_70_55
SAMPLE_SBS31_70_56
SAMPLE_SBS31_70_57
SAMPLE_SBS31_70_58
SAMPLE_SBS31_70_59
SAMPLE_SBS31_70_6
SAMPLE_SBS31_70_60
SAMPLE_SBS31_70_61
SAMPLE_SBS31_70_62
SAMPLE_SBS31_70_63
SAMPLE_SBS31_70_64
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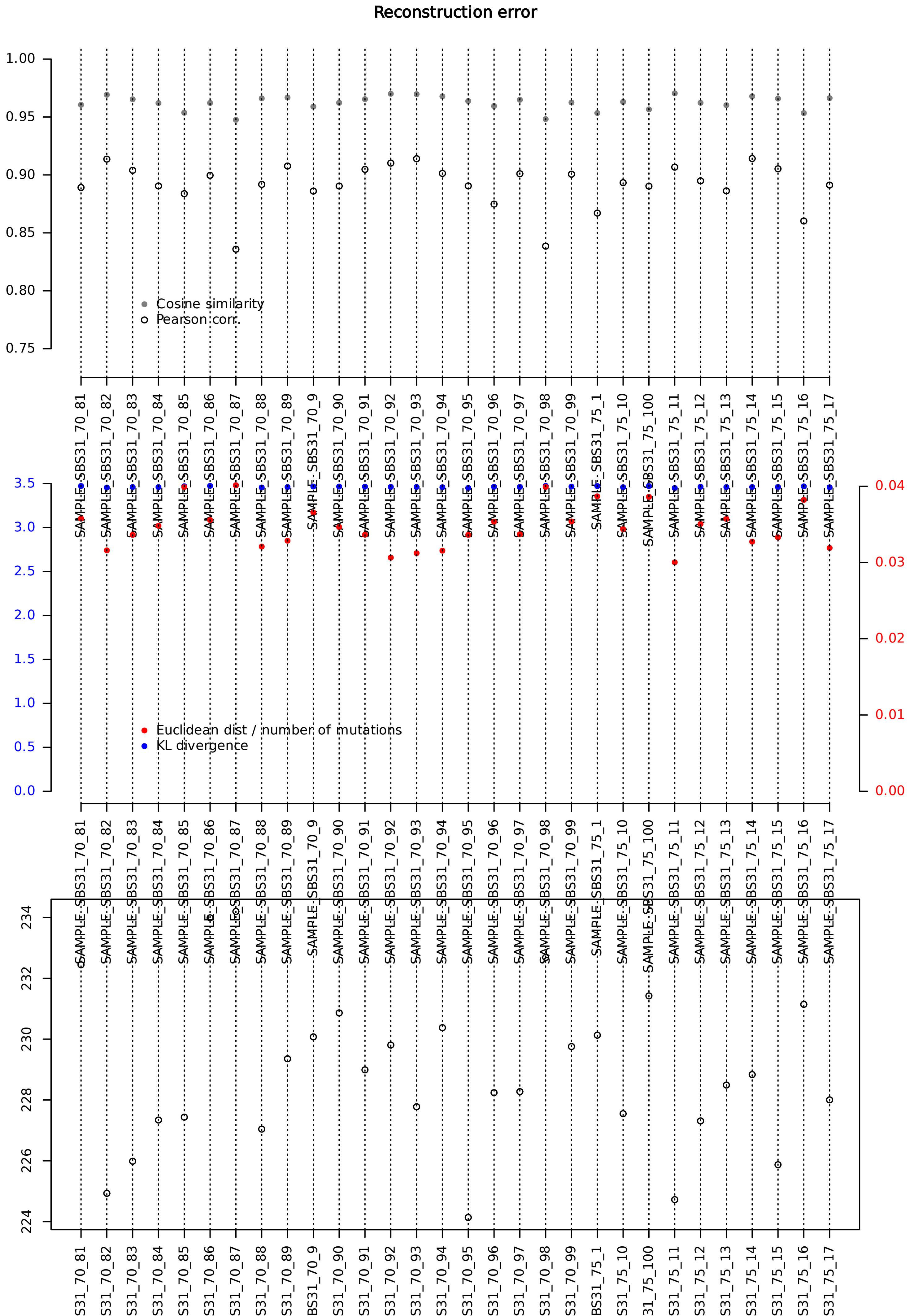
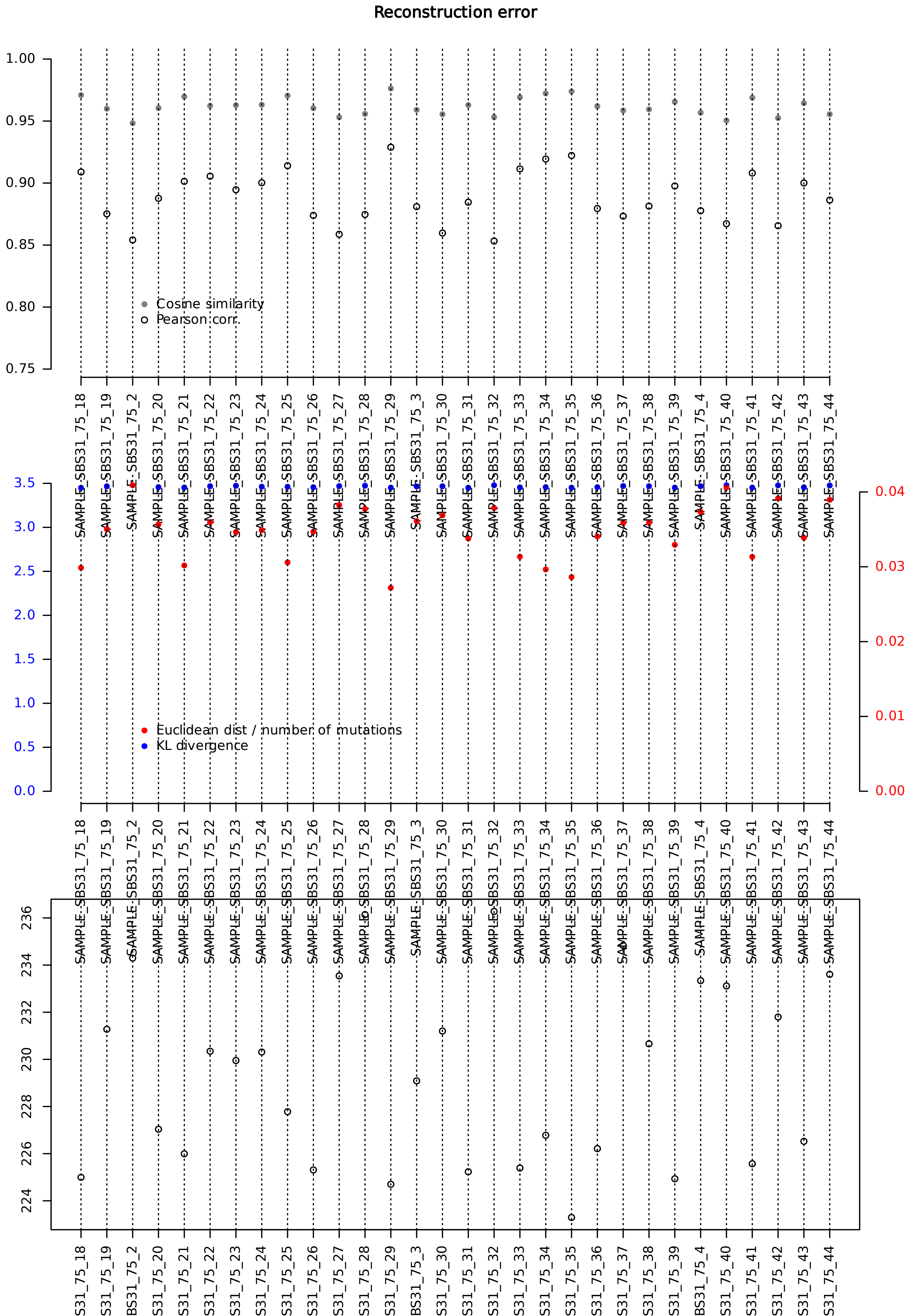
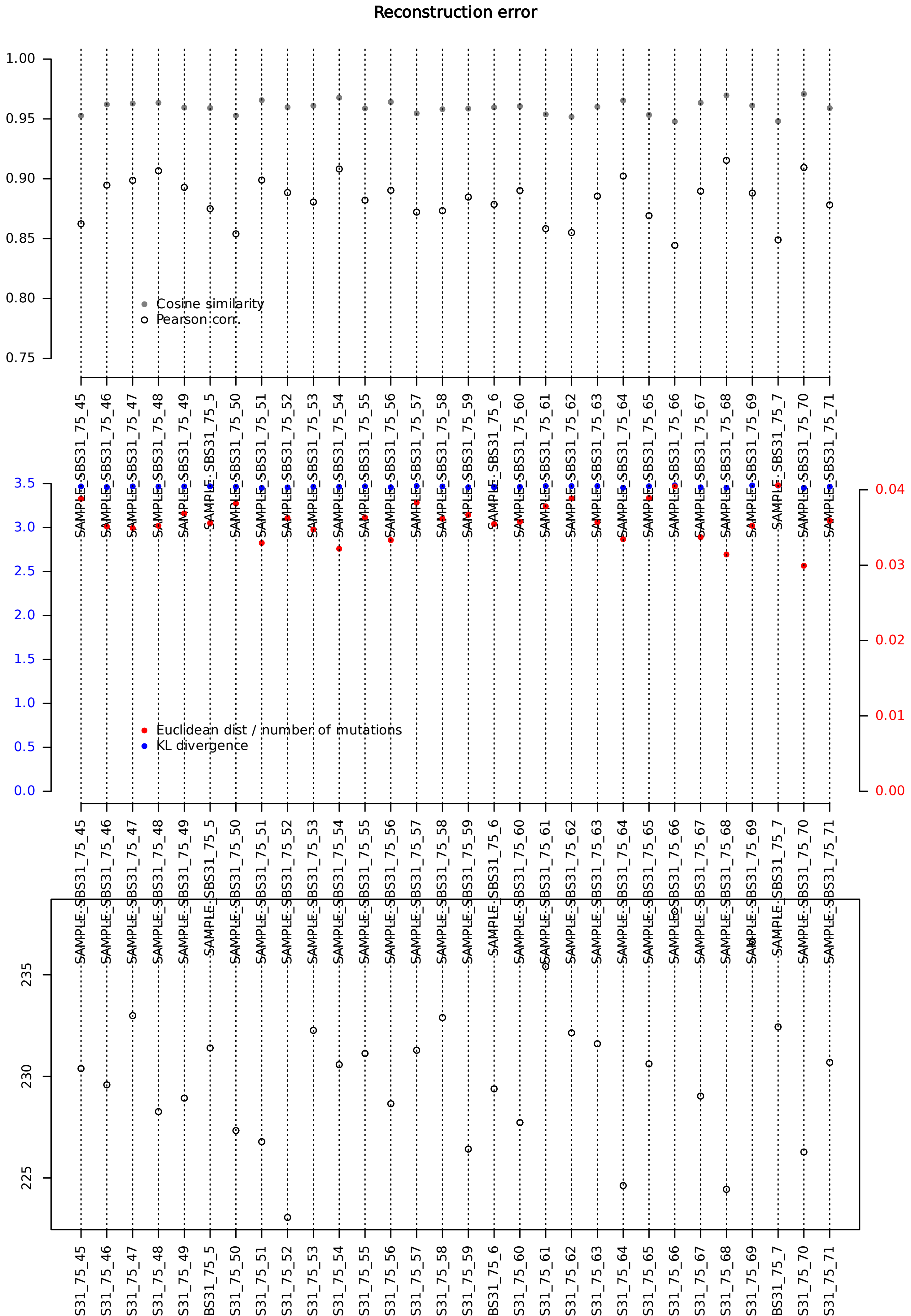
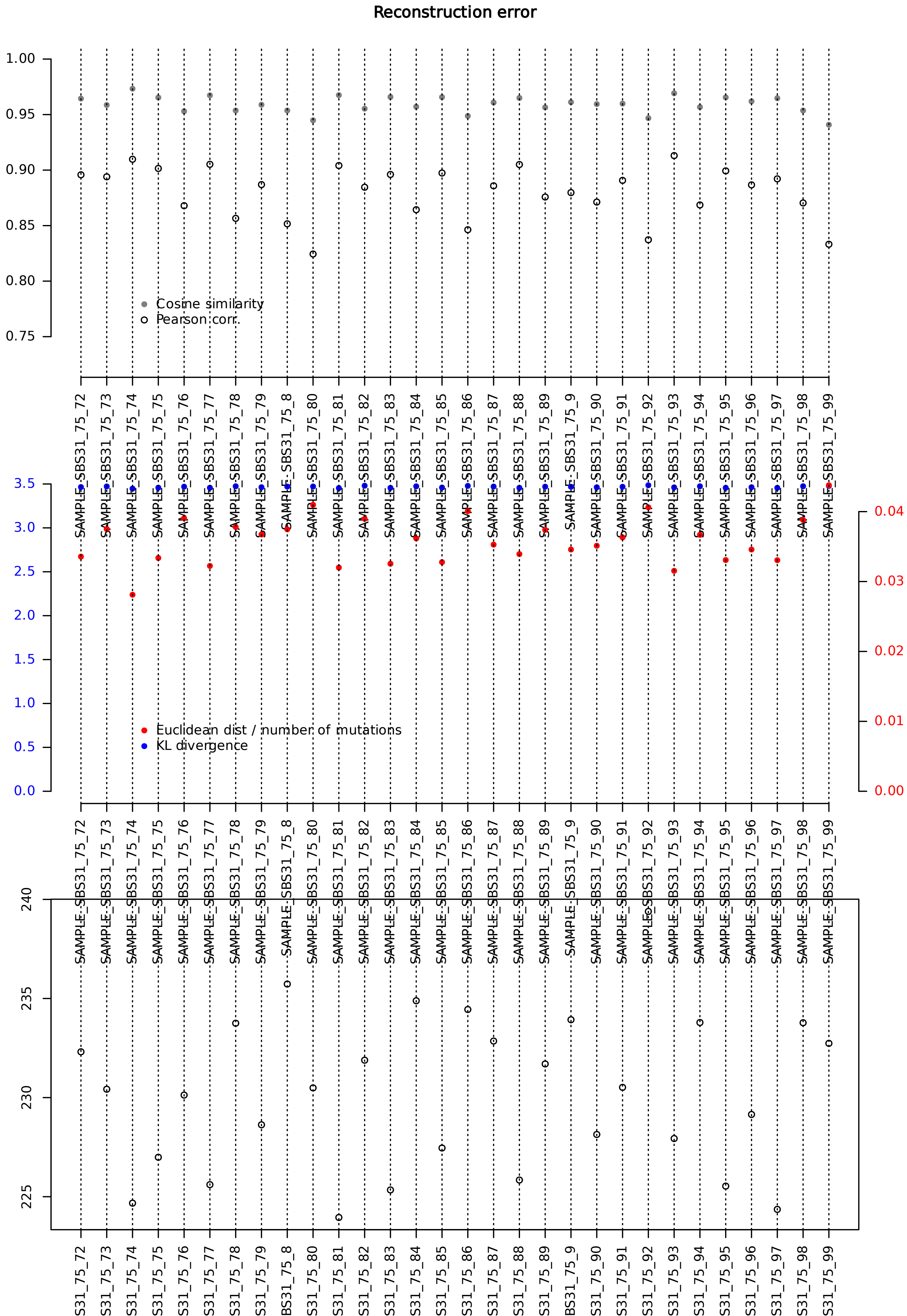
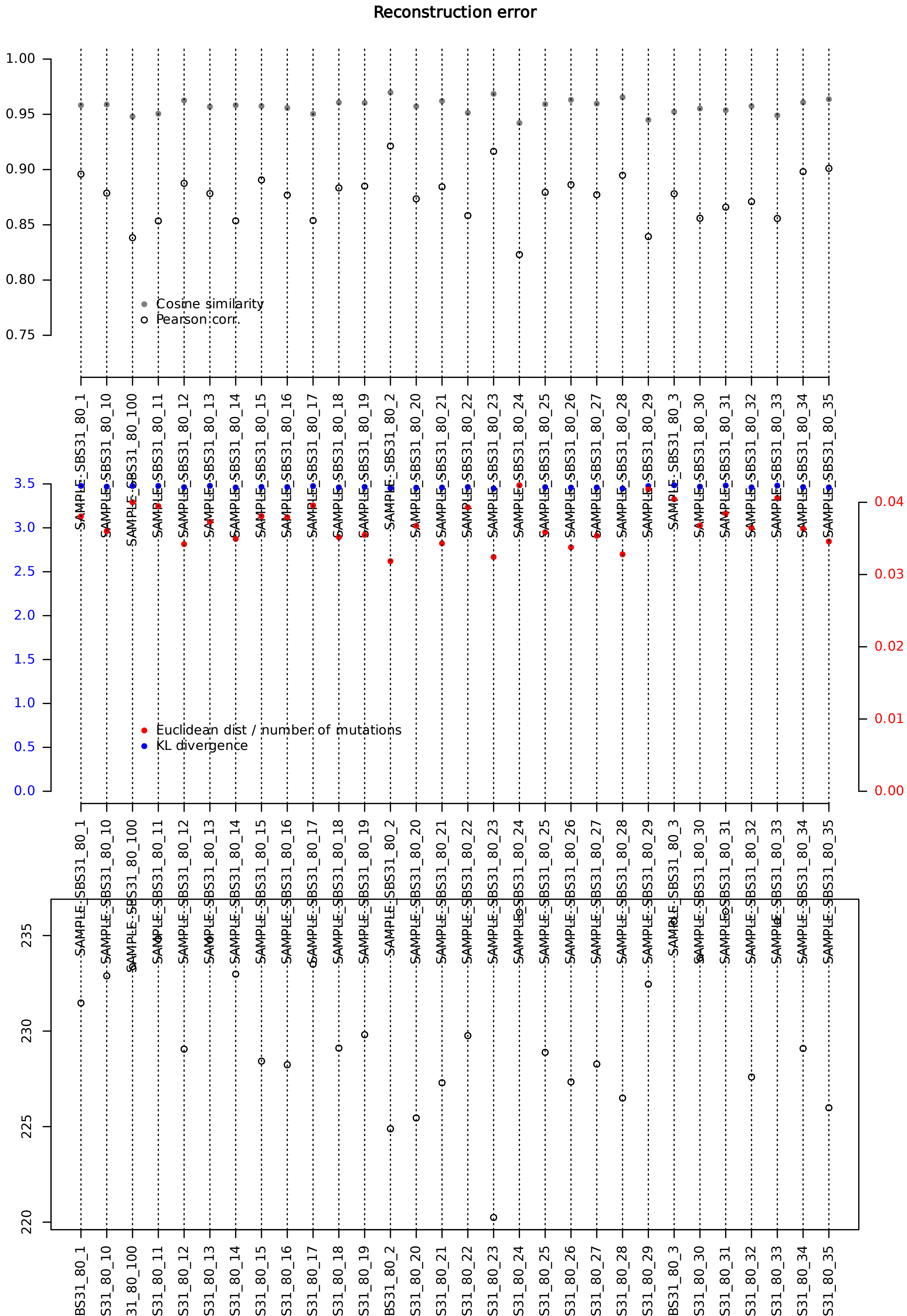
SAMPLE_SBS31_70_66
SAMPLE_SBS31_70_67
SAMPLE_SBS31_70_68
SAMPLE_SBS31_70_69
SAMPLE_SBS31_70_7
SAMPLE_SBS31_70_70
SAMPLE_SBS31_70_71
SAMPLE_SBS31_70_72
SAMPLE_SBS31_70_73
SAMPLE_SBS31_70_74
SAMPLE_SBS31_70_75
SAMPLE_SBS31_70_76
SAMPLE_SBS31_70_77
SAMPLE_SBS31_70_78
SAMPLE_SBS31_70_79
SAMPLE_SBS31_70_8
SAMPLE_SBS31_70_80

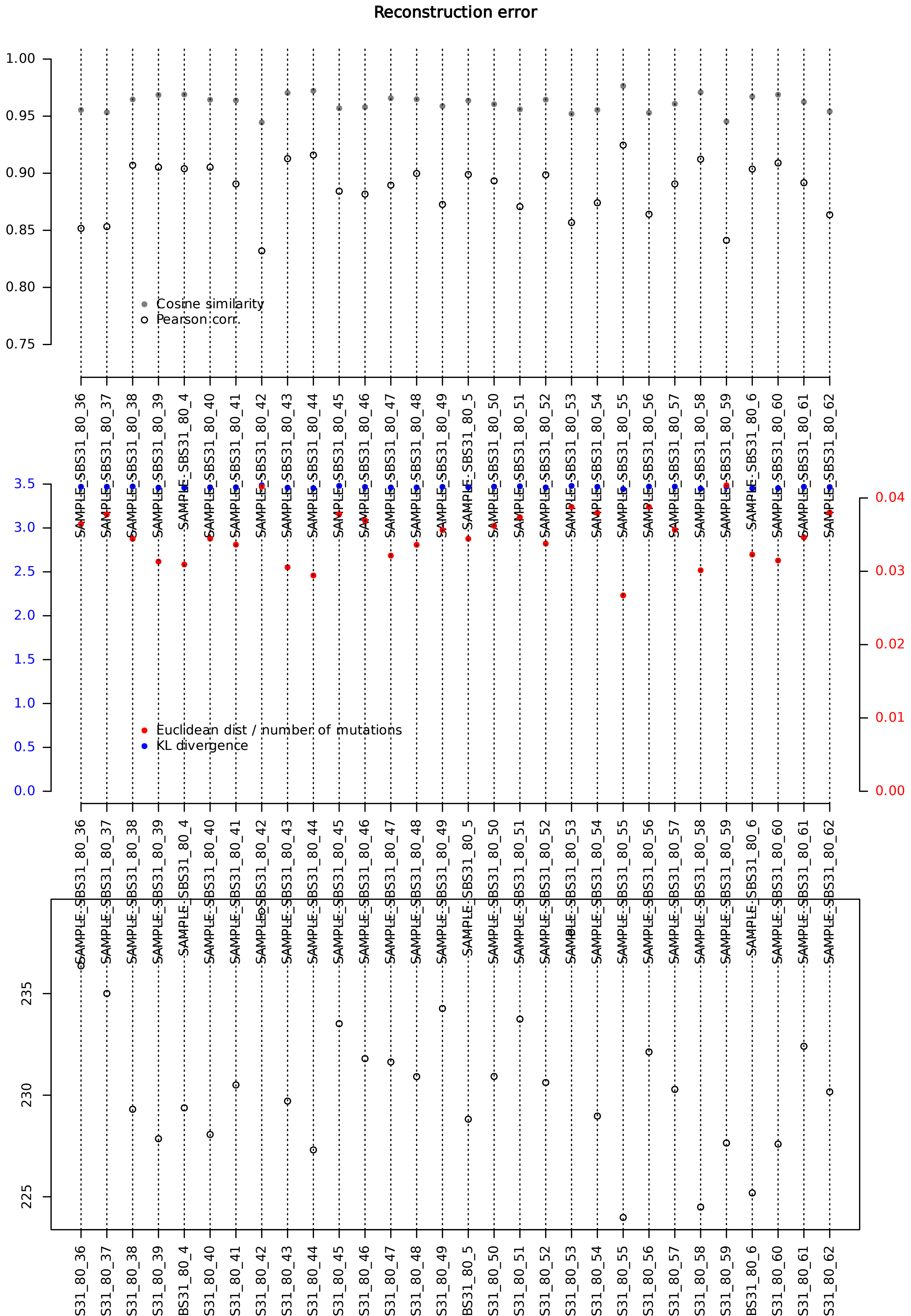

Reconstruction error
1.00
0.95
0.90
0.85
0.80
0.75
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
234
232
230
228
226
224
SAMPLE-SBS31_70_81
SAMPLE-SBS31_70_82
SAMPLE-SBS31_70_83
SAMPLE-SBS31_70_84
SAMPLE-SBS31_70_85
SAMPLE-SBS31_70_86
SAMPLE-SBS31_70_87
SAMPLE-SBS31_70_88
SAMPLE-SBS31_70_89
SAMPLE-SBS31_70_9
SAMPLE-SBS31_70_90
SAMPLE-SBS31_70_91
SAMPLE-SBS31_70_92
SAMPLE-SBS31_70_93
SAMPLE-SBS31_70_94
SAMPLE-SBS31_70_95
SAMPLE-SBS31_70_96
SAMPLE-SBS31_70_97
SAMPLE-SBS31_70_98
SAMPLE-SBS31_70_99
SAMPLE-SBS31_75_1
SAMPLE-SBS31_75_10
SAMPLE-SBS31_75_100
SAMPLE-SBS31_75_11
SAMPLE-SBS31_75_12
SAMPLE-SBS31_75_13
SAMPLE-SBS31_75_14
SAMPLE-SBS31_75_15
SAMPLE-SBS31_75_16
SAMPLE-SBS31_75_17

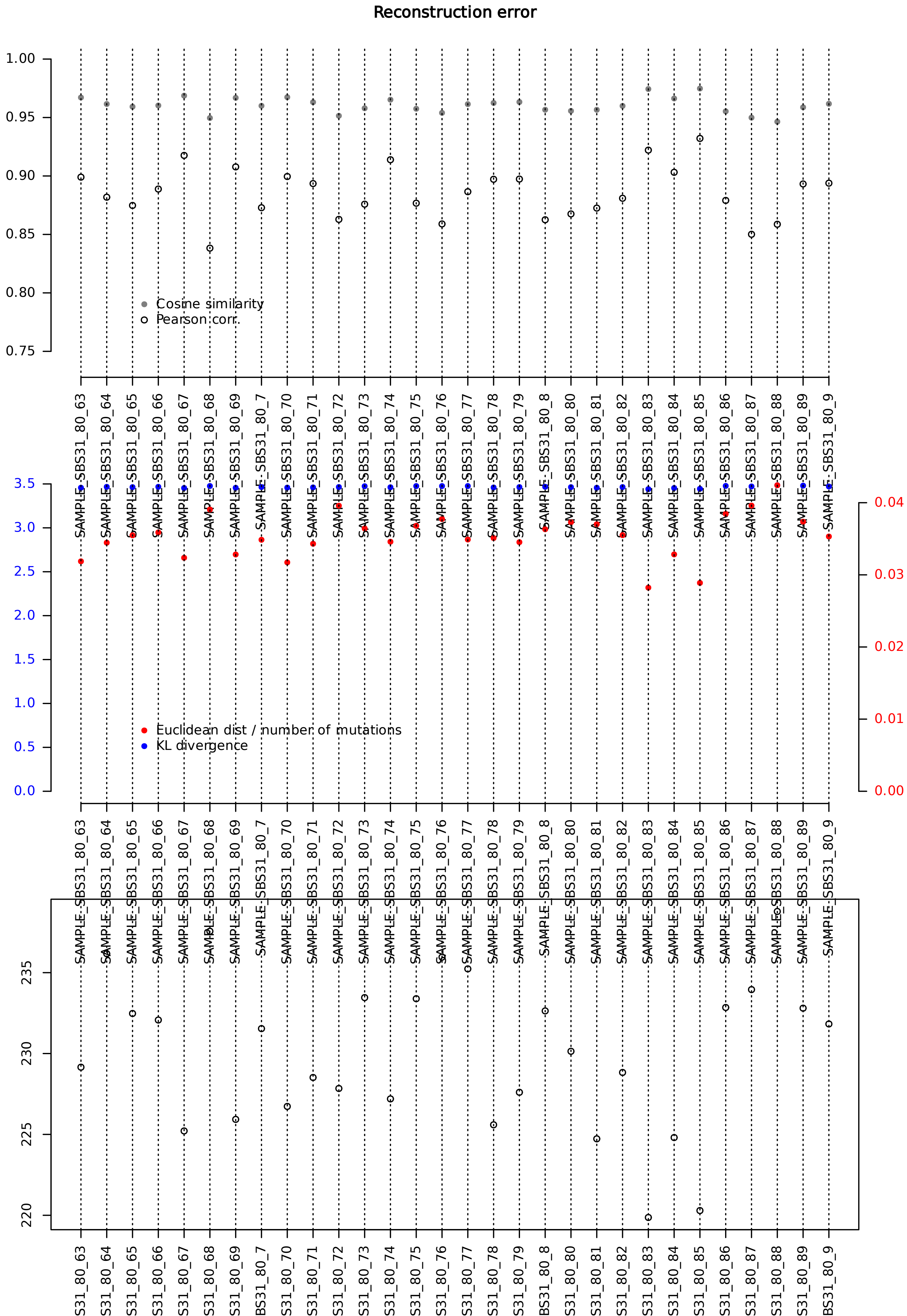

Reconstruction error
1.00
0.95
0.90
0.85
0.80
0.75
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
236
234
232
230
228
226
224
SAMPLE-SBS31_75_18
SAMPLE-SBS31_75_19
SAMPLE-SBS31_75_2
SAMPLE-SBS31_75_20
SAMPLE-SBS31_75_21
SAMPLE-SBS31_75_22
SAMPLE-SBS31_75_23
SAMPLE-SBS31_75_24
SAMPLE-SBS31_75_25
SAMPLE-SBS31_75_26
SAMPLE-SBS31_75_27
SAMPLE-SBS31_75_28
SAMPLE-SBS31_75_29
SAMPLE-SBS31_75_3
SAMPLE-SBS31_75_30
SAMPLE-SBS31_75_31
SAMPLE-SBS31_75_32
SAMPLE-SBS31_75_33
SAMPLE-SBS31_75_34
SAMPLE-SBS31_75_35
SAMPLE-SBS31_75_36
SAMPLE-SBS31_75_37
SAMPLE-SBS31_75_38
SAMPLE-SBS31_75_39
SAMPLE-SBS31_75_4
SAMPLE-SBS31_75_40
SAMPLE-SBS31_75_41
SAMPLE-SBS31_75_42
SAMPLE-SBS31_75_43
SAMPLE-SBS31_75_44


Reconstruction error
1.00
0.95
0.90
0.85
0.80
0.75
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
SAMPLE-SBS31_75_45
SAMPLE-SBS31_75_46
SAMPLE-SBS31_75_47
SAMPLE-SBS31_75_48
SAMPLE-SBS31_75_49
SAMPLE-SBS31_75_5
SAMPLE-SBS31_75_50
SAMPLE-SBS31_75_51
SAMPLE-SBS31_75_52
SAMPLE-SBS31_75_53
SAMPLE-SBS31_75_54
SAMPLE-SBS31_75_55
SAMPLE-SBS31_75_56
SAMPLE-SBS31_75_57
SAMPLE-SBS31_75_58
SAMPLE-SBS31_75_59
SAMPLE-SBS31_75_6
SAMPLE-SBS31_75_60
SAMPLE-SBS31_75_61
SAMPLE-SBS31_75_62
SAMPLE-SBS31_75_63
SAMPLE-SBS31_75_64
SAMPLE-SBS31_75_65
SAMPLE-SBS31_75_66
SAMPLE-SBS31_75_67
SAMPLE-SBS31_75_68
SAMPLE-SBS31_75_69
SAMPLE-SBS31_75_7
SAMPLE-SBS31_75_70
SAMPLE-SBS31_75_71


Reconstruction error
1.00
0.95
0.90
0.85
0.80
0.75
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
240
235
230
225
SAMPLE-SBS31_75_72
SAMPLE-SBS31_75_73
SAMPLE-SBS31_75_74
SAMPLE-SBS31_75_75
SAMPLE-SBS31_75_76
SAMPLE-SBS31_75_77
SAMPLE-SBS31_75_78
SAMPLE-SBS31_75_79
SAMPLE-SBS31_75_8
SAMPLE-SBS31_75_80
SAMPLE-SBS31_75_81
SAMPLE-SBS31_75_82
SAMPLE-SBS31_75_83
SAMPLE-SBS31_75_84
SAMPLE-SBS31_75_85
SAMPLE-SBS31_75_86
SAMPLE-SBS31_75_87
SAMPLE-SBS31_75_88
SAMPLE-SBS31_75_89
SAMPLE-SBS31_75_9
SAMPLE-SBS31_75_90
SAMPLE-SBS31_75_91
SAMPLE-SBS31_75_92
SAMPLE-SBS31_75_93
SAMPLE-SBS31_75_94
SAMPLE-SBS31_75_95
SAMPLE-SBS31_75_96
SAMPLE-SBS31_75_97
SAMPLE-SBS31_75_98
SAMPLE-SBS31_75_99


Reconstruction error
1.00
0.95
0.90
0.85
0.80
0.75
● Cosine similarity
○ Pearson corr.
SAMPLE-SBS31_80_1
SAMPLE-SBS31_80_10
SAMPLE-SBS31_80_100
SAMPLE-SBS31_80_11
SAMPLE-SBS31_80_12
SAMPLE-SBS31_80_13
SAMPLE-SBS31_80_14
SAMPLE-SBS31_80_15
SAMPLE-SBS31_80_16
SAMPLE-SBS31_80_17
SAMPLE-SBS31_80_18
SAMPLE-SBS31_80_19
SAMPLE-SBS31_80_2
SAMPLE-SBS31_80_20
SAMPLE-SBS31_80_21
SAMPLE-SBS31_80_22
SAMPLE-SBS31_80_23
SAMPLE-SBS31_80_24
SAMPLE-SBS31_80_25
SAMPLE-SBS31_80_26
SAMPLE-SBS31_80_27
SAMPLE-SBS31_80_28
SAMPLE-SBS31_80_29
SAMPLE-SBS31_80_3
SAMPLE-SBS31_80_30
SAMPLE-SBS31_80_31
SAMPLE-SBS31_80_32
SAMPLE-SBS31_80_33
SAMPLE-SBS31_80_34
SAMPLE-SBS31_80_35
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
● Euclidean dist / number of mutations
● KL divergence
235
230
225
220


Reconstruction error
1.00
0.95
0.90
0.85
0.80
0.75
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
SAMPLE-SBS31_80_36
SAMPLE-SBS31_80_37
SAMPLE-SBS31_80_38
SAMPLE-SBS31_80_39
SAMPLE-SBS31_80_4
SAMPLE-SBS31_80_40
SAMPLE-SBS31_80_41
SAMPLE-SBS31_80_42
SAMPLE-SBS31_80_43
SAMPLE-SBS31_80_44
SAMPLE-SBS31_80_45
SAMPLE-SBS31_80_46
SAMPLE-SBS31_80_47
SAMPLE-SBS31_80_48
SAMPLE-SBS31_80_49
SAMPLE-SBS31_80_5
SAMPLE-SBS31_80_50
SAMPLE-SBS31_80_51
SAMPLE-SBS31_80_52
SAMPLE-SBS31_80_53
SAMPLE-SBS31_80_54
SAMPLE-SBS31_80_55
SAMPLE-SBS31_80_56
SAMPLE-SBS31_80_57
SAMPLE-SBS31_80_58
SAMPLE-SBS31_80_59
SAMPLE-SBS31_80_6
SAMPLE-SBS31_80_60
SAMPLE-SBS31_80_61
SAMPLE-SBS31_80_62


Reconstruction error
1.00
0.95
0.90
0.85
0.80
0.75
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
220
SAMPLE-SBS31_80_63
SAMPLE-SBS31_80_64
SAMPLE-SBS31_80_65
SAMPLE-SBS31_80_66
SAMPLE-SBS31_80_67
SAMPLE-SBS31_80_68
SAMPLE-SBS31_80_69
SAMPLE-SBS31_80_7
SAMPLE-SBS31_80_70
SAMPLE-SBS31_80_71
SAMPLE-SBS31_80_72
SAMPLE-SBS31_80_73
SAMPLE-SBS31_80_74
SAMPLE-SBS31_80_75
SAMPLE-SBS31_80_76
SAMPLE-SBS31_80_77
SAMPLE-SBS31_80_78
SAMPLE-SBS31_80_79
SAMPLE-SBS31_80_8
SAMPLE-SBS31_80_80
SAMPLE-SBS31_80_81
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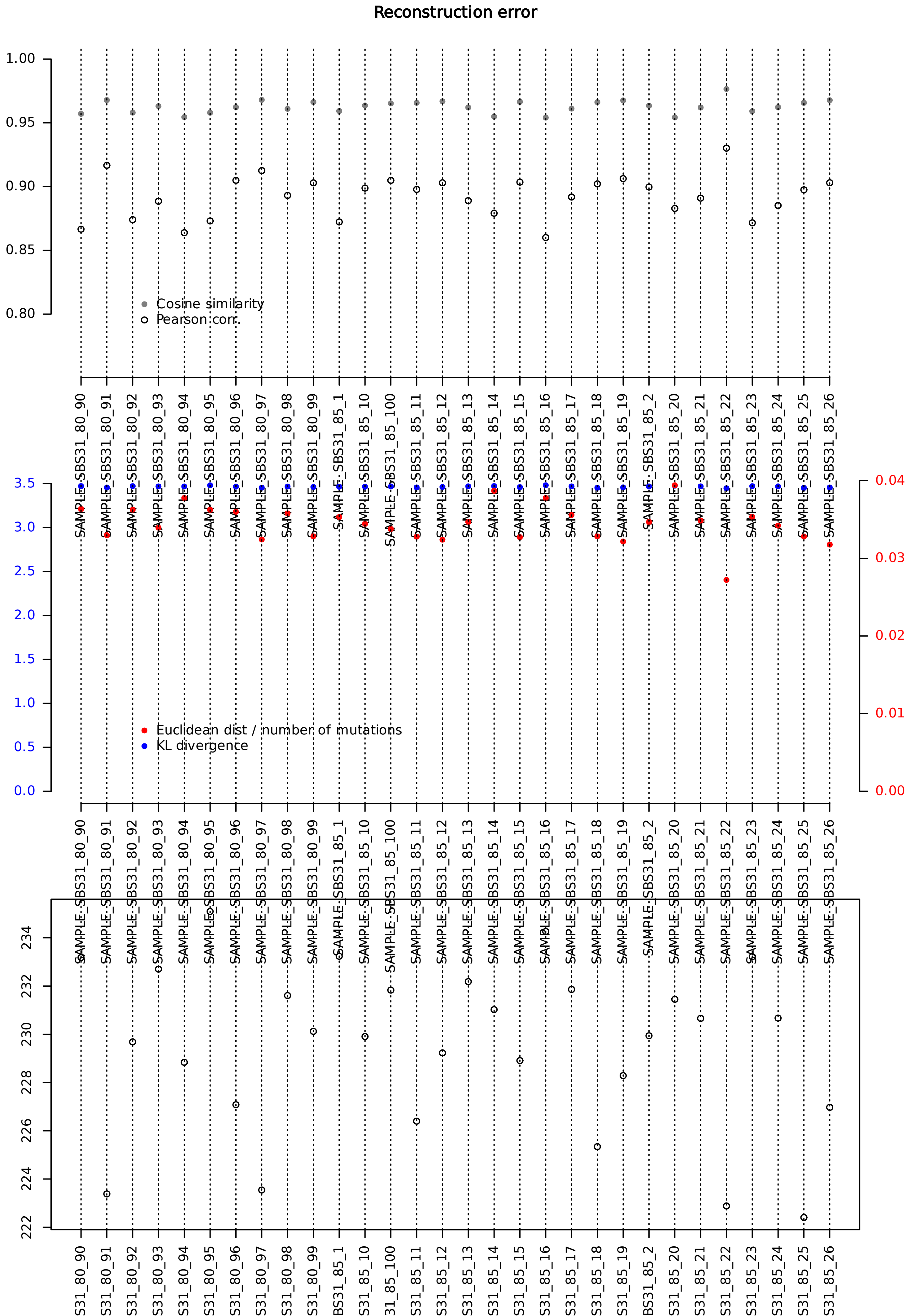
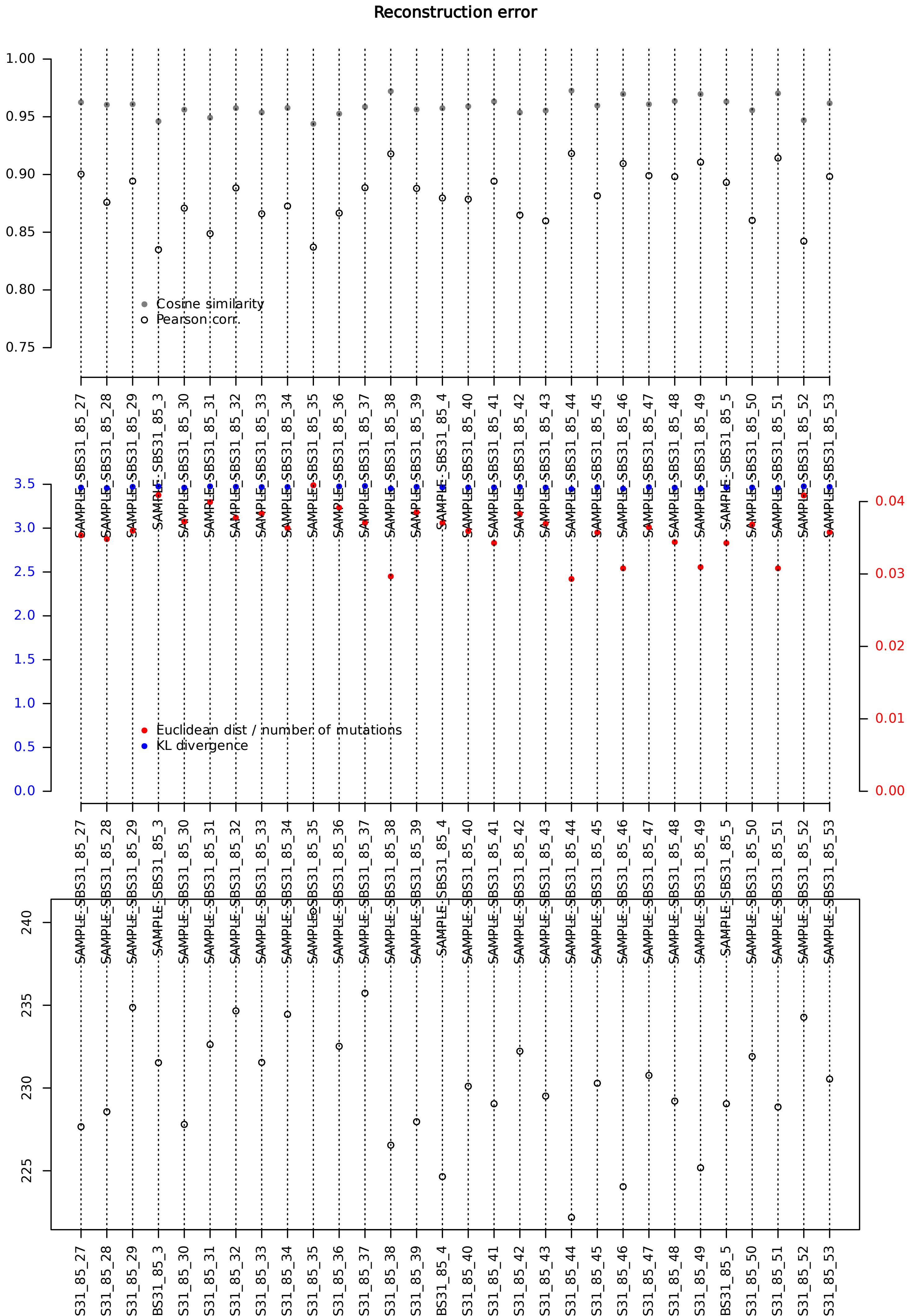
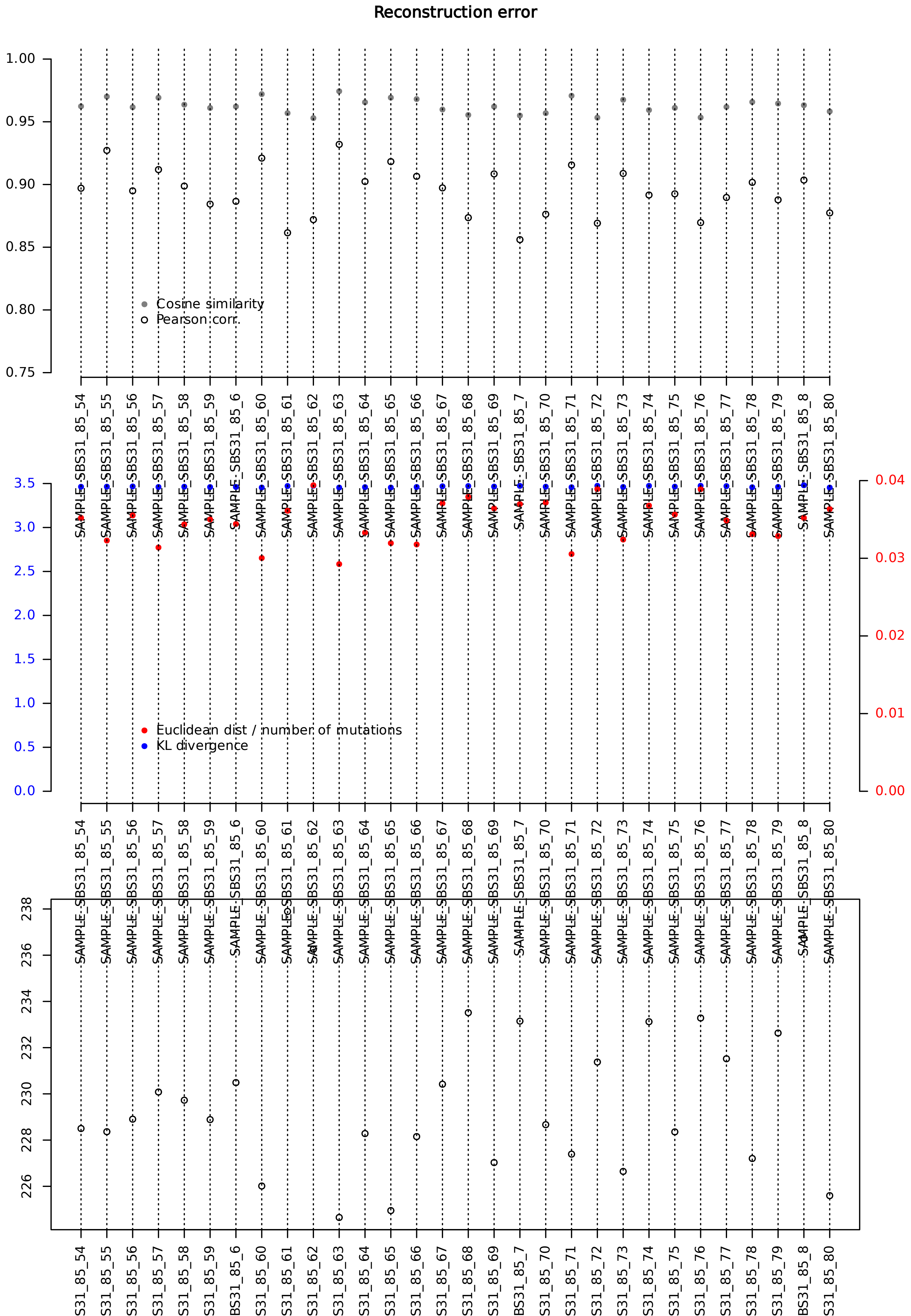
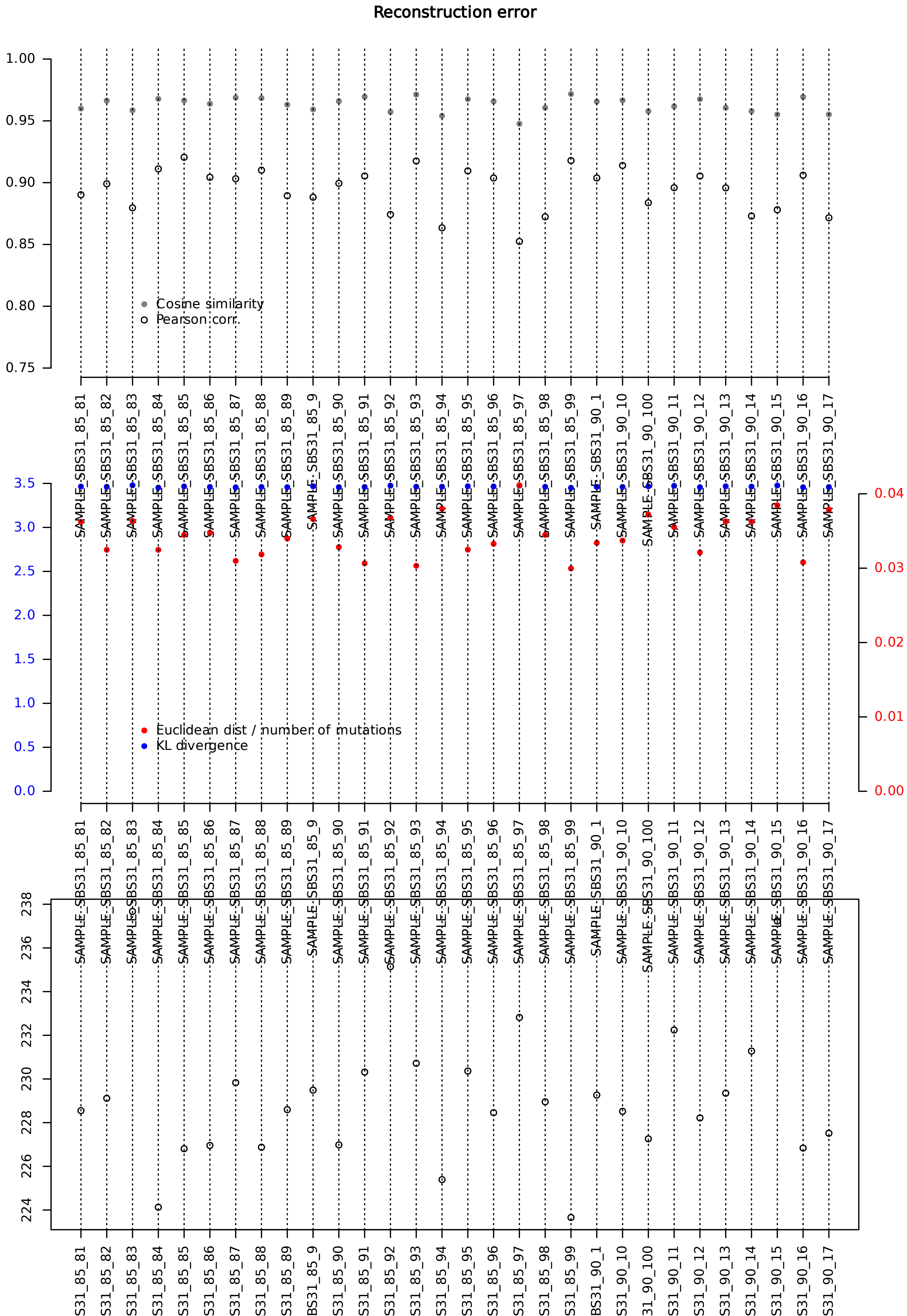
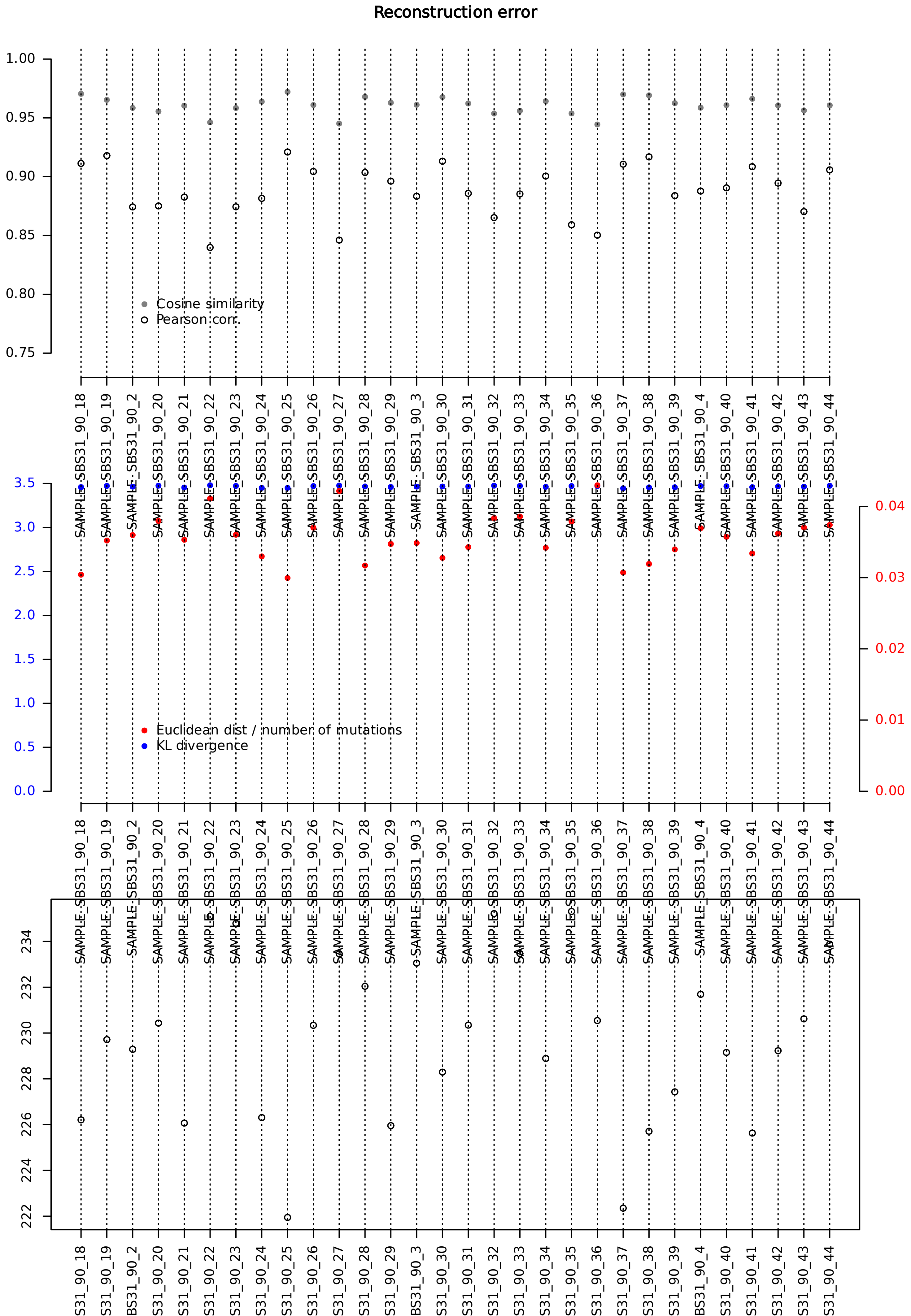
SAMPLE-SBS31_80_84
SAMPLE-SBS31_80_85
SAMPLE-SBS31_80_86
SAMPLE-SBS31_80_87
SAMPLE-SBS31_80_88
SAMPLE-SBS31_80_89
SAMPLE-SBS31_80_9

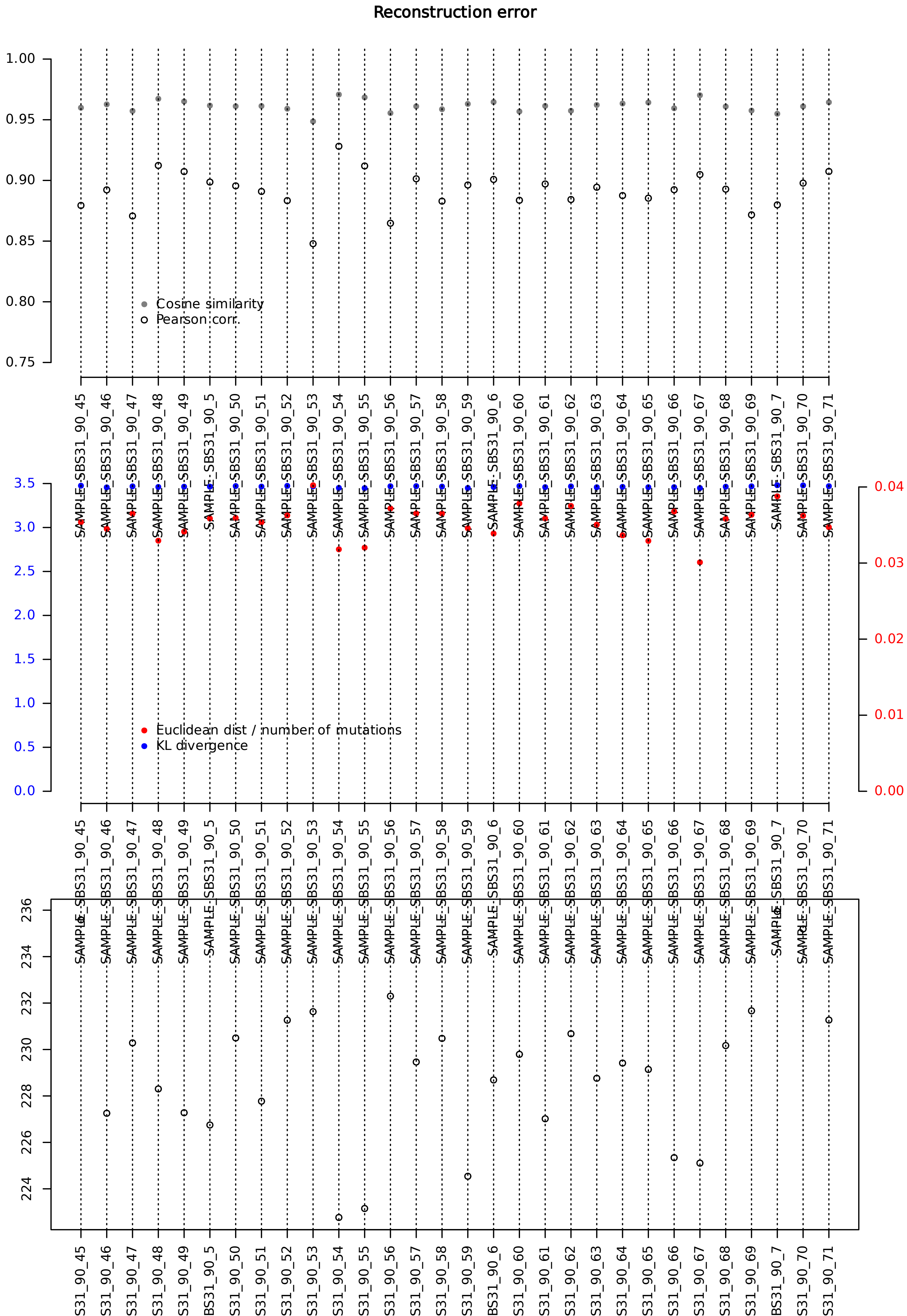

Reconstruction error
1.00
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
234
232
230
228
226
224
222
SAMPLE-SBS31_80_90
SAMPLE-SBS31_80_91
SAMPLE-SBS31_80_92
SAMPLE-SBS31_80_93
SAMPLE-SBS31_80_94
SAMPLE-SBS31_80_95
SAMPLE-SBS31_80_96
SAMPLE-SBS31_80_97
SAMPLE-SBS31_80_98
SAMPLE-SBS31_80_99
SAMPLE-SBS31_85_1
SAMPLE-SBS31_85_10
SAMPLE-SBS31_85_100
SAMPLE-SBS31_85_11
SAMPLE-SBS31_85_12
SAMPLE-SBS31_85_13
SAMPLE-SBS31_85_14
SAMPLE-SBS31_85_15
SAMPLE-SBS31_85_16
SAMPLE-SBS31_85_17
SAMPLE-SBS31_85_18
SAMPLE-SBS31_85_19
SAMPLE-SBS31_85_2
SAMPLE-SBS31_85_20
SAMPLE-SBS31_85_21
SAMPLE-SBS31_85_22
SAMPLE-SBS31_85_23
SAMPLE-SBS31_85_24
SAMPLE-SBS31_85_25
SAMPLE-SBS31_85_26

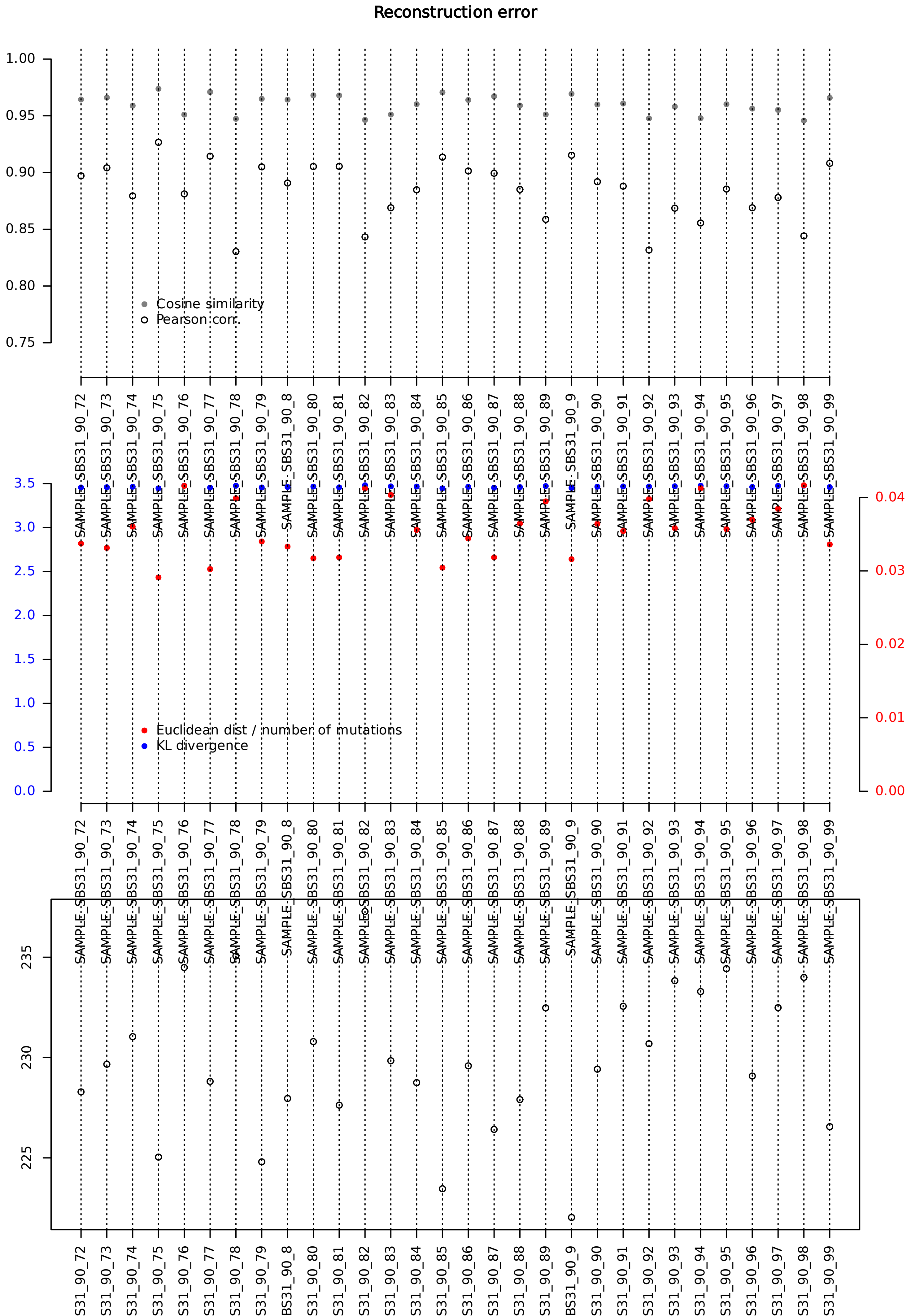

Reconstruction error
1.00
0.95
0.90
0.85
0.80
0.75
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
240
235
230
225
SAMPLE-SBS31_85_27
SAMPLE-SBS31_85_28
SAMPLE-SBS31_85_29
SAMPLE-SBS31_85_3
SAMPLE-SBS31_85_30
SAMPLE-SBS31_85_31
SAMPLE-SBS31_85_32
SAMPLE-SBS31_85_33
SAMPLE-SBS31_85_34
SAMPLE-SBS31_85_35
SAMPLE-SBS31_85_36
SAMPLE-SBS31_85_37
SAMPLE-SBS31_85_38
SAMPLE-SBS31_85_39
SAMPLE-SBS31_85_4
SAMPLE-SBS31_85_40
SAMPLE-SBS31_85_41
SAMPLE-SBS31_85_42
SAMPLE-SBS31_85_43
SAMPLE-SBS31_85_44
SAMPLE-SBS31_85_45
SAMPLE-SBS31_85_46
SAMPLE-SBS31_85_47
SAMPLE-SBS31_85_48
SAMPLE-SBS31_85_49
SAMPLE-SBS31_85_5
SAMPLE-SBS31_85_50
SAMPLE-SBS31_85_51
SAMPLE-SBS31_85_52
SAMPLE-SBS31_85_53

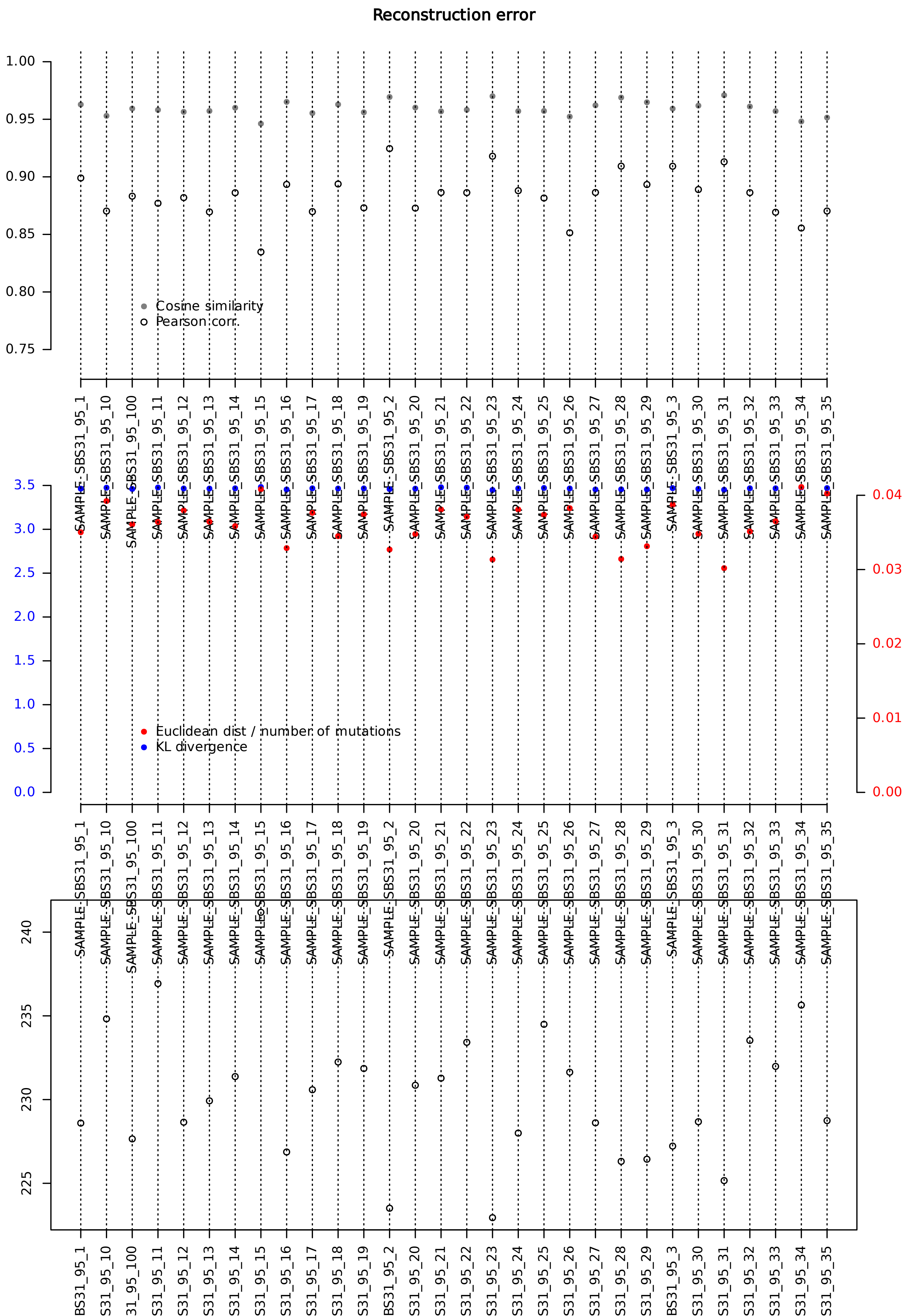

Reconstruction error
1.00
0.95
0.90
0.85
0.80
0.75
● Cosine similarity
○ Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
● Euclidean dist / number of mutations
● KL divergence
238
236
234
232
230
228
226
SAMPLE_SBS31_85_54
SAMPLE_SBS31_85_55
SAMPLE_SBS31_85_56
SAMPLE_SBS31_85_57
SAMPLE_SBS31_85_58
SAMPLE_SBS31_85_59
SAMPLE_SBS31_85_6
SAMPLE_SBS31_85_60
SAMPLE_SBS31_85_61
SAMPLE_SBS31_85_62
SAMPLE_SBS31_85_63
SAMPLE_SBS31_85_64
SAMPLE_SBS31_85_65
SAMPLE_SBS31_85_66
SAMPLE_SBS31_85_67
SAMPLE_SBS31_85_68
SAMPLE_SBS31_85_69
SAMPLE_SBS31_85_7
SAMPLE_SBS31_85_70
SAMPLE_SBS31_85_71
SAMPLE_SBS31_85_72
SAMPLE_SBS31_85_73
SAMPLE_SBS31_85_74
SAMPLE_SBS31_85_75
SAMPLE_SBS31_85_76
SAMPLE_SBS31_85_77
SAMPLE_SBS31_85_78
SAMPLE_SBS31_85_79
SAMPLE_SBS31_85_8
SAMPLE_SBS31_85_80

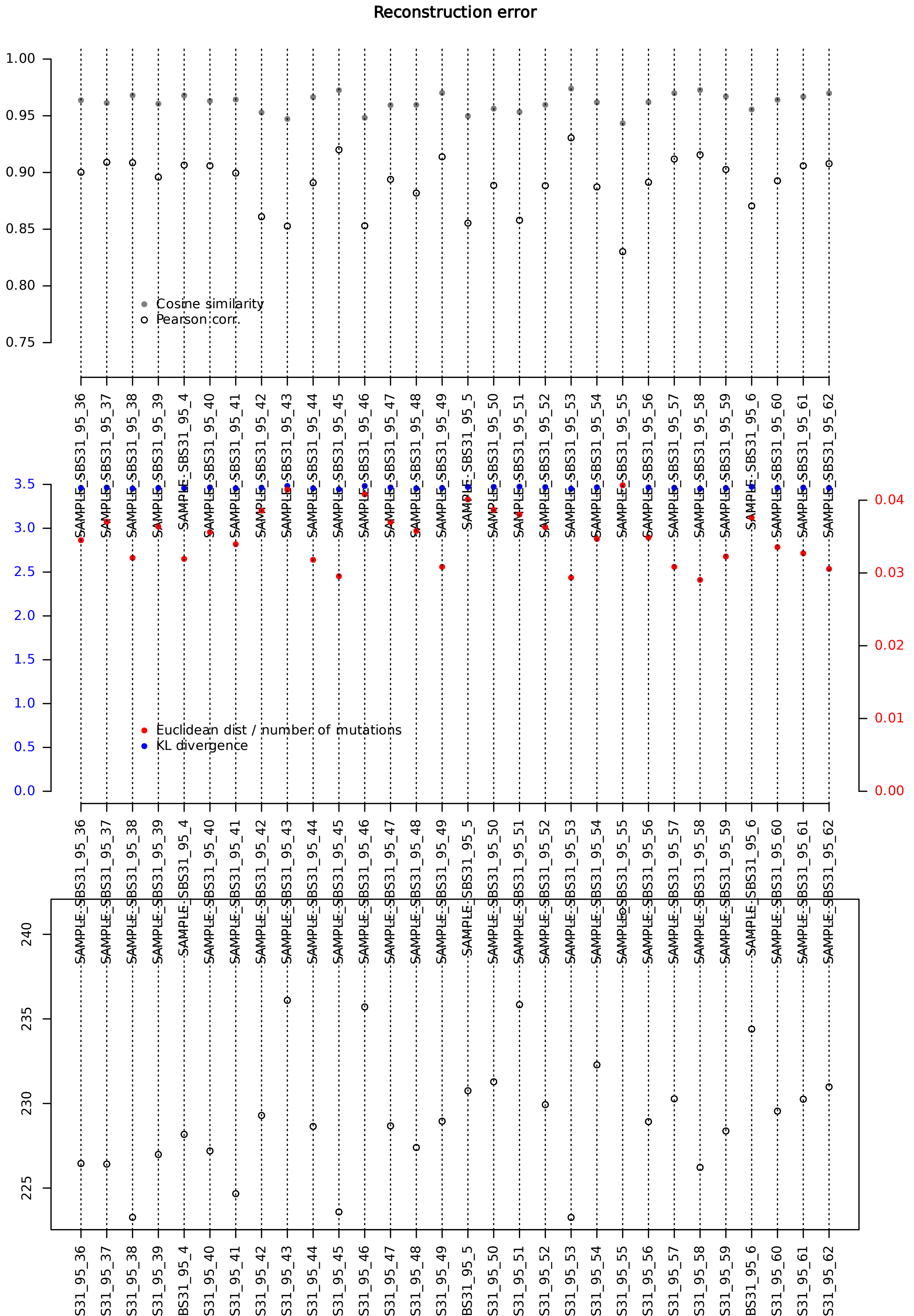

Reconstruction error
1.00
0.95
0.90
0.85
0.80
0.75
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
238
236
234
232
230
228
226
224
SAMPLE-SBS31_85_81
SAMPLE-SBS31_85_82
SAMPLE-SBS31_85_83
SAMPLE-SBS31_85_84
SAMPLE-SBS31_85_85
SAMPLE-SBS31_85_86
SAMPLE-SBS31_85_87
SAMPLE-SBS31_85_88
SAMPLE-SBS31_85_89
SAMPLE-SBS31_85_9
SAMPLE-SBS31_85_90
SAMPLE-SBS31_85_91
SAMPLE-SBS31_85_92
SAMPLE-SBS31_85_93
SAMPLE-SBS31_85_94
SAMPLE-SBS31_85_95
SAMPLE-SBS31_85_96
SAMPLE-SBS31_85_97
SAMPLE-SBS31_85_98
SAMPLE-SBS31_85_99
SAMPLE-SBS31_90_1
SAMPLE-SBS31_90_10
SAMPLE-SBS31_90_100
SAMPLE-SBS31_90_11
SAMPLE-SBS31_90_12
SAMPLE-SBS31_90_13
SAMPLE-SBS31_90_14
SAMPLE-SBS31_90_15
SAMPLE-SBS31_90_16
SAMPLE-SBS31_90_17


Reconstruction error
1.00
0.95
0.90
0.85
0.80
0.75
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
234
232
230
228
226
224
222
SAMPLE-SBS31_90_18
SAMPLE-SBS31_90_19
SAMPLE-SBS31_90_2
SAMPLE-SBS31_90_20
SAMPLE-SBS31_90_21
SAMPLE-SBS31_90_22
SAMPLE-SBS31_90_23
SAMPLE-SBS31_90_24
SAMPLE-SBS31_90_25
SAMPLE-SBS31_90_26
SAMPLE-SBS31_90_27
SAMPLE-SBS31_90_28
SAMPLE-SBS31_90_29
SAMPLE-SBS31_90_3
SAMPLE-SBS31_90_30
SAMPLE-SBS31_90_31
SAMPLE-SBS31_90_32
SAMPLE-SBS31_90_33
SAMPLE-SBS31_90_34
SAMPLE-SBS31_90_35
SAMPLE-SBS31_90_36
SAMPLE-SBS31_90_37
SAMPLE-SBS31_90_38
SAMPLE-SBS31_90_39
SAMPLE-SBS31_90_4
SAMPLE-SBS31_90_40
SAMPLE-SBS31_90_41
SAMPLE-SBS31_90_42
SAMPLE-SBS31_90_43
SAMPLE-SBS31_90_44

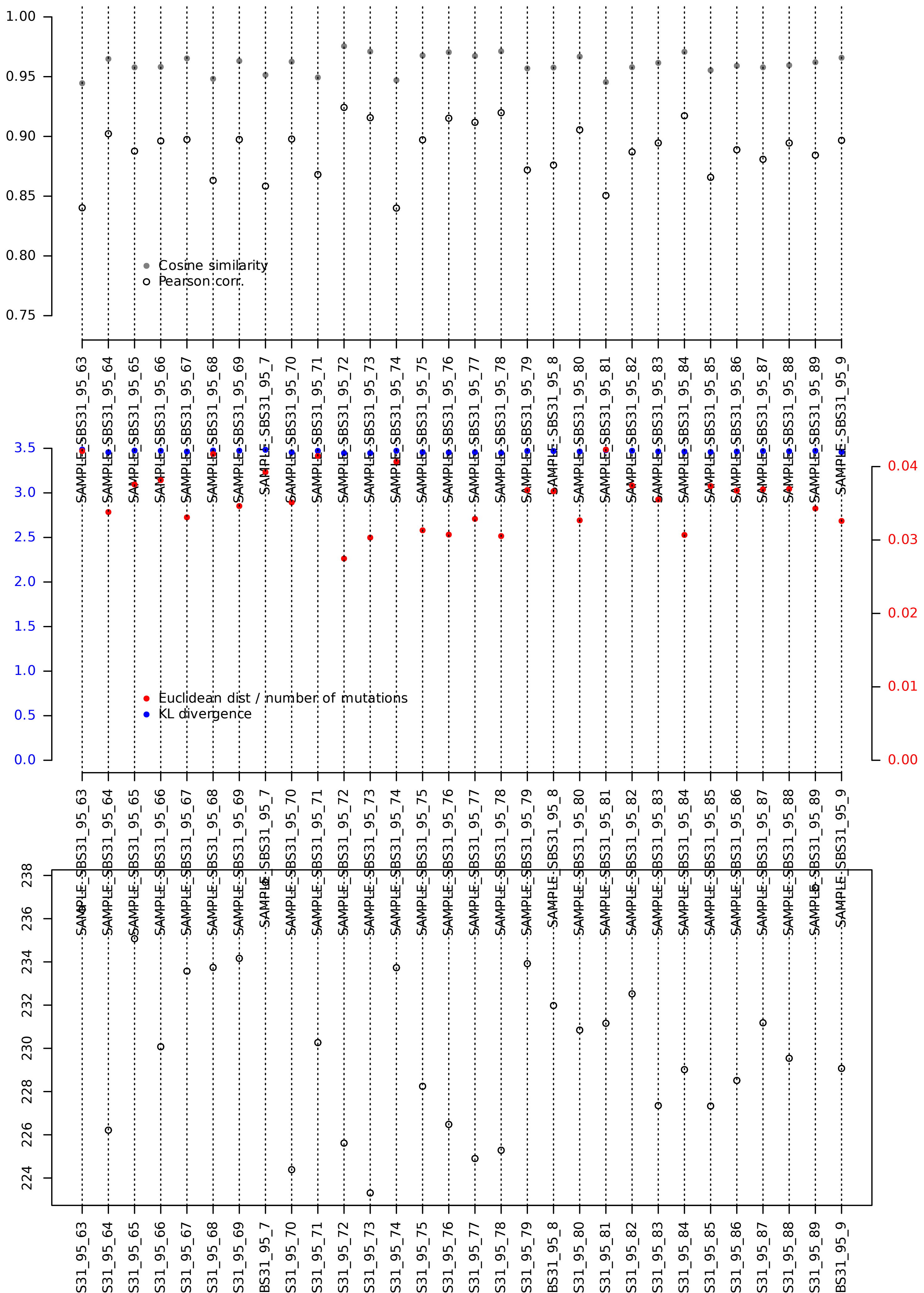

Reconstruction error
1.00
0.95
0.90
0.85
0.80
0.75
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
236
234
232
230
228
226
224
SAMPLE-SBS31_90_45
SAMPLE-SBS31_90_46
SAMPLE-SBS31_90_47
SAMPLE-SBS31_90_48
SAMPLE-SBS31_90_49
SAMPLE-SBS31_90_5
SAMPLE-SBS31_90_50
SAMPLE-SBS31_90_51
SAMPLE-SBS31_90_52
SAMPLE-SBS31_90_53
SAMPLE-SBS31_90_54
SAMPLE-SBS31_90_55
SAMPLE-SBS31_90_56
SAMPLE-SBS31_90_57
SAMPLE-SBS31_90_58
SAMPLE-SBS31_90_59
SAMPLE-SBS31_90_6
SAMPLE-SBS31_90_60
SAMPLE-SBS31_90_61
SAMPLE-SBS31_90_62
SAMPLE-SBS31_90_63
SAMPLE-SBS31_90_64
SAMPLE-SBS31_90_65
SAMPLE-SBS31_90_66
SAMPLE-SBS31_90_67
SAMPLE-SBS31_90_68
SAMPLE-SBS31_90_69
SAMPLE-SBS31_90_7
SAMPLE-SBS31_90_70
SAMPLE-SBS31_90_71

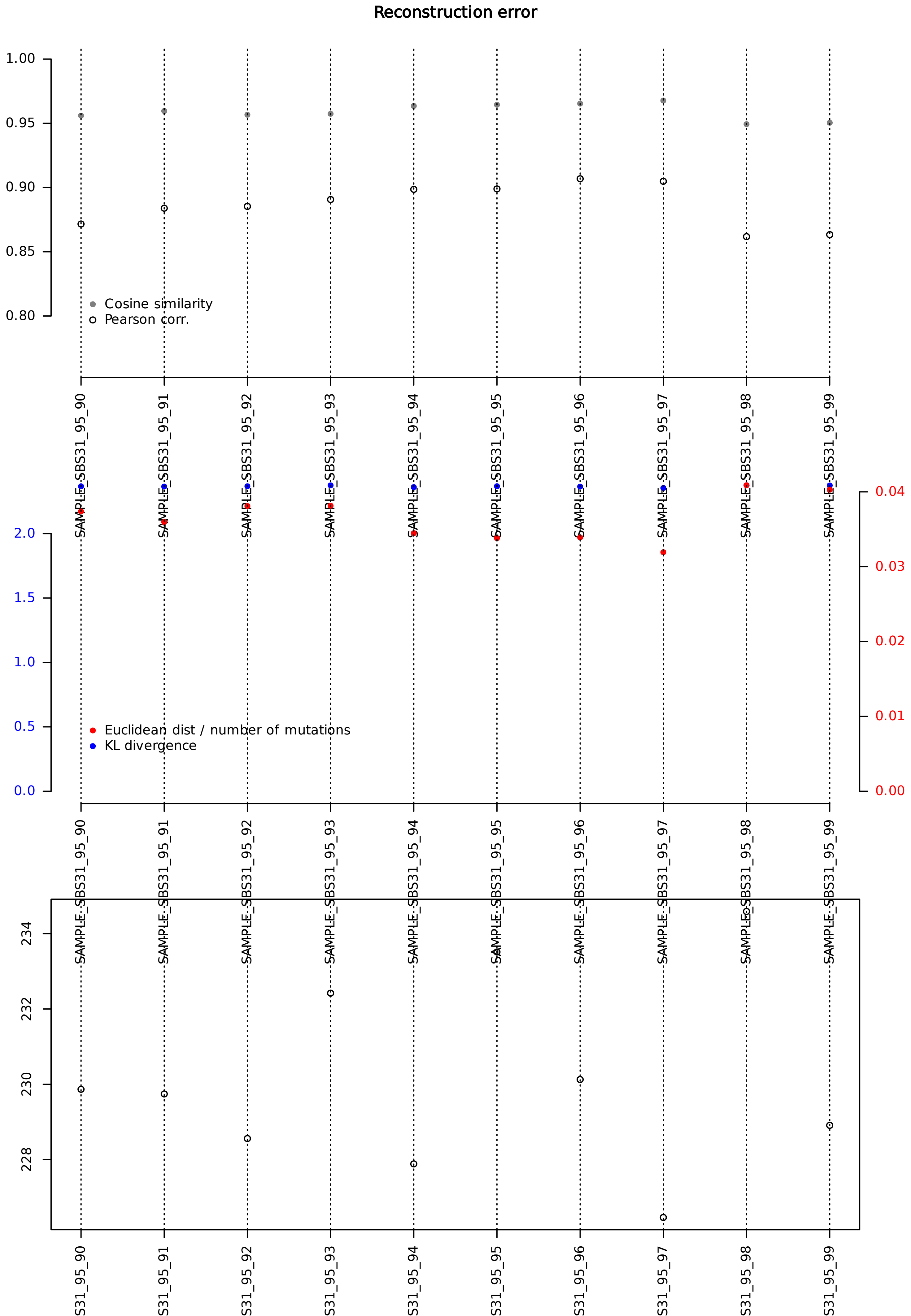

Reconstruction error
1.00
0.95
0.90
0.85
0.80
0.75
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
235
230
225
SAMPLE-SBS31_90_72
SAMPLE-SBS31_90_73
SAMPLE-SBS31_90_74
SAMPLE-SBS31_90_75
SAMPLE-SBS31_90_76
SAMPLE-SBS31_90_77
SAMPLE-SBS31_90_78
SAMPLE-SBS31_90_79
SAMPLE-SBS31_90_8
SAMPLE-SBS31_90_80
SAMPLE-SBS31_90_81
SAMPLE-SBS31_90_82
SAMPLE-SBS31_90_83
SAMPLE-SBS31_90_84
SAMPLE-SBS31_90_85
SAMPLE-SBS31_90_86
SAMPLE-SBS31_90_87
SAMPLE-SBS31_90_88
SAMPLE-SBS31_90_89
SAMPLE-SBS31_90_9
SAMPLE-SBS31_90_90
SAMPLE-SBS31_90_91
SAMPLE-SBS31_90_92
SAMPLE-SBS31_90_93
SAMPLE-SBS31_90_94
SAMPLE-SBS31_90_95
SAMPLE-SBS31_90_96
SAMPLE-SBS31_90_97
SAMPLE-SBS31_90_98
SAMPLE-SBS31_90_99]


Reconstruction error


Reconstruction error
1.00
0.95
0.90
0.85
0.80
0.75
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
240
235
230
225
SAMPLE_SBS31_95_36
SAMPLE_SBS31_95_37
SAMPLE_SBS31_95_38
SAMPLE_SBS31_95_39
SAMPLE_SBS31_95_4
SAMPLE_SBS31_95_40
SAMPLE_SBS31_95_41
SAMPLE_SBS31_95_42
SAMPLE_SBS31_95_43
SAMPLE_SBS31_95_44
SAMPLE_SBS31_95_45
SAMPLE_SBS31_95_46
SAMPLE_SBS31_95_47
SAMPLE_SBS31_95_48
SAMPLE_SBS31_95_49
SAMPLE_SBS31_95_5
SAMPLE_SBS31_95_50
SAMPLE_SBS31_95_51
SAMPLE_SBS31_95_52
SAMPLE_SBS31_95_53
SAMPLE_SBS31_95_54
SAMPLE_SBS31_95_55
SAMPLE_SBS31_95_56
SAMPLE_SBS31_95_57
SAMPLE_SBS31_95_58
SAMPLE_SBS31_95_59
SAMPLE_SBS31_95_6
SAMPLE_SBS31_95_60
SAMPLE_SBS31_95_61
SAMPLE_SBS31_95_62

Reconstruction error




Reconstruction error
1.00
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
SAMPLE-SBS31_95_90
SAMPLE-SBS31_95_91
SAMPLE-SBS31_95_92
SAMPLE-SBS31_95_93
SAMPLE-SBS31_95_94
SAMPLE-SBS31_95_95
SAMPLE-SBS31_95_96
SAMPLE-SBS31_95_97
SAMPLE-SBS31_95_98
SAMPLE-SBS31_95_99
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
SAMPLE-SBS31_95_90
SAMPLE-SBS31_95_91
SAMPLE-SBS31_95_92
SAMPLE-SBS31_95_93
SAMPLE-SBS31_95_94
SAMPLE-SBS31_95_95
SAMPLE-SBS31_95_96
SAMPLE-SBS31_95_97
SAMPLE-SBS31_95_98
SAMPLE-SBS31_95_99
234
232
230
228
S31_95_90
S31_95_91
S31_95_92
S31_95_93
S31_95_94
S31_95_95
S31_95_96
S31_95_97
S31_95_98
S31_95_99