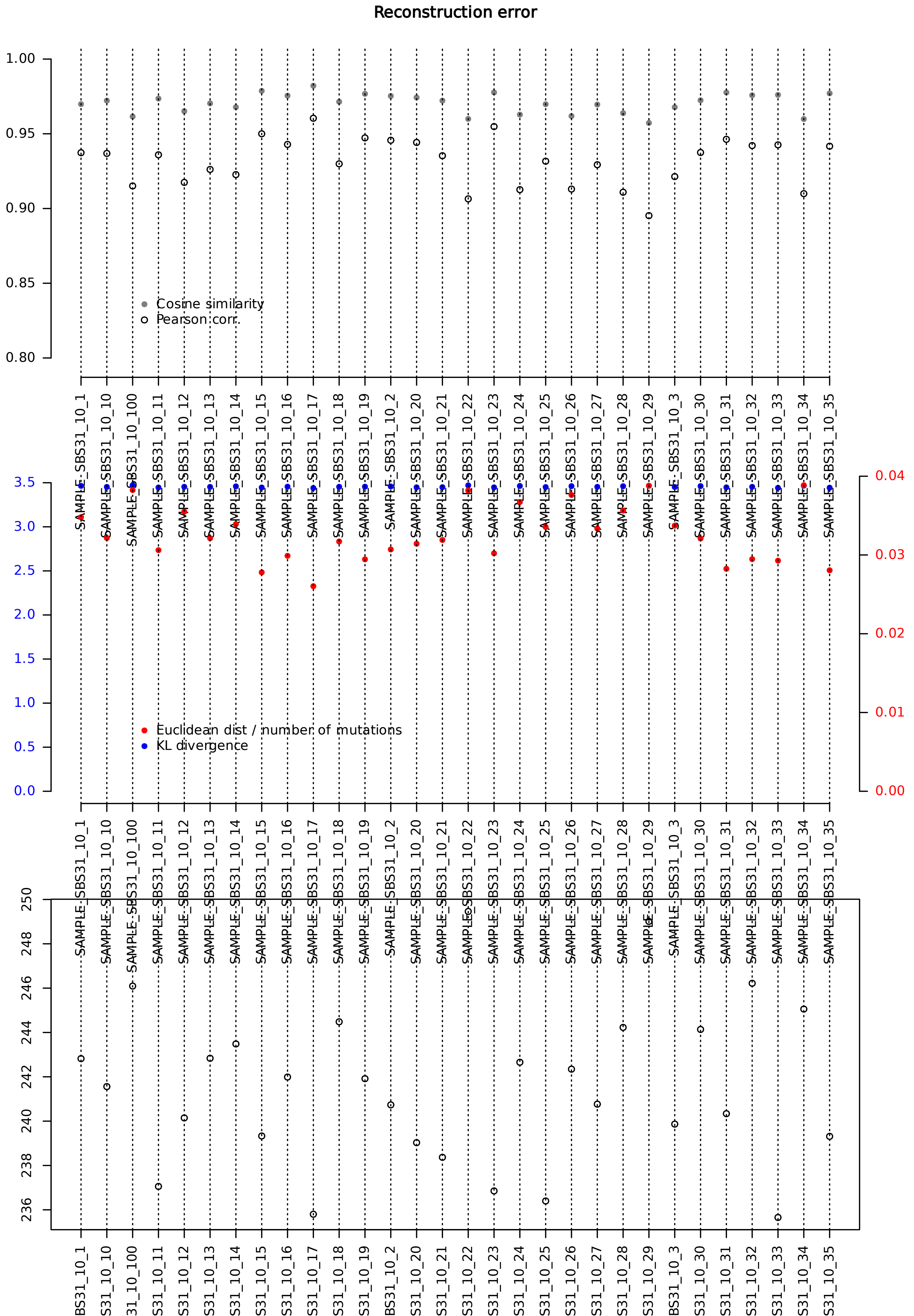
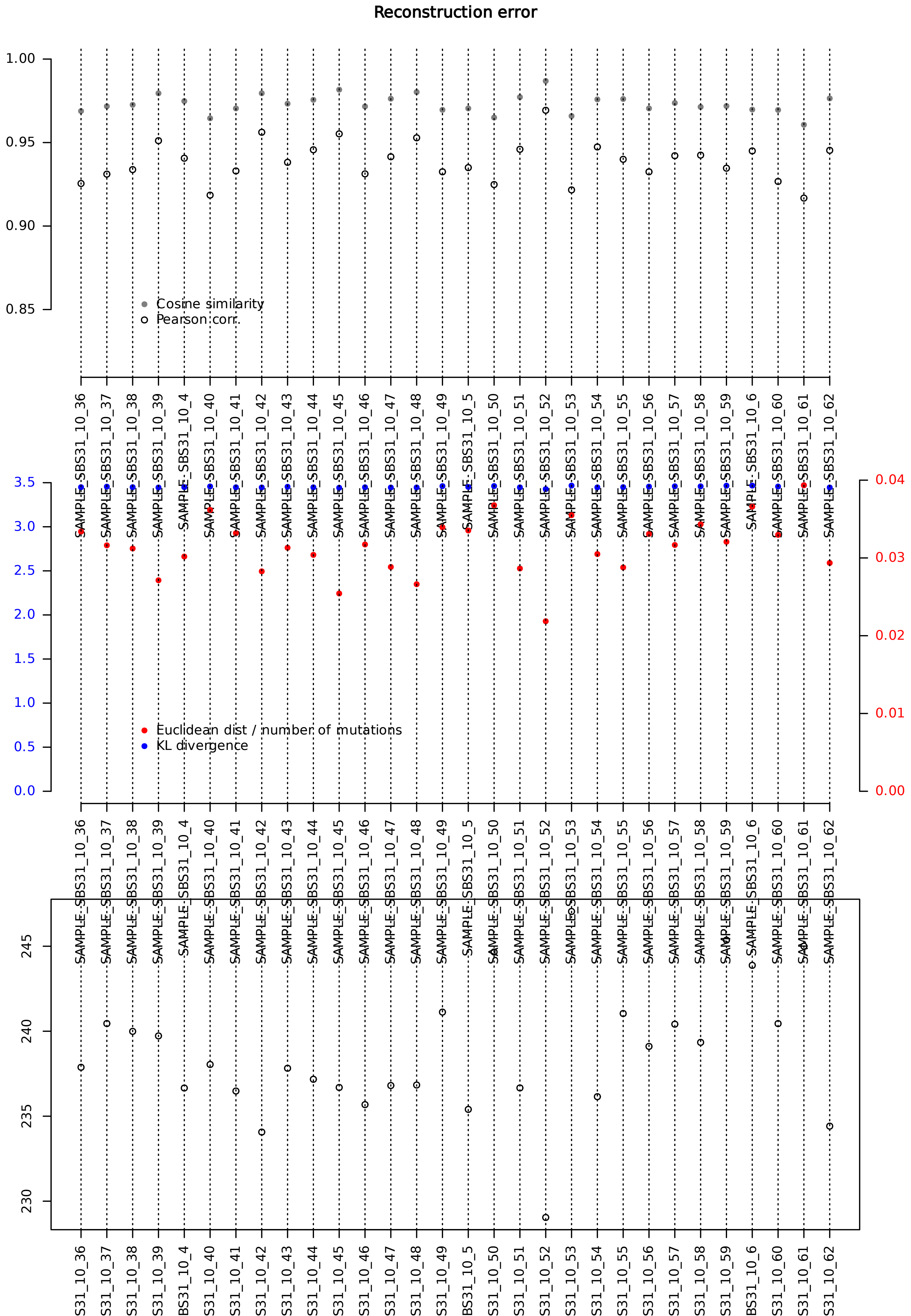

Reconstruction error


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
245
240
235
230
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
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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
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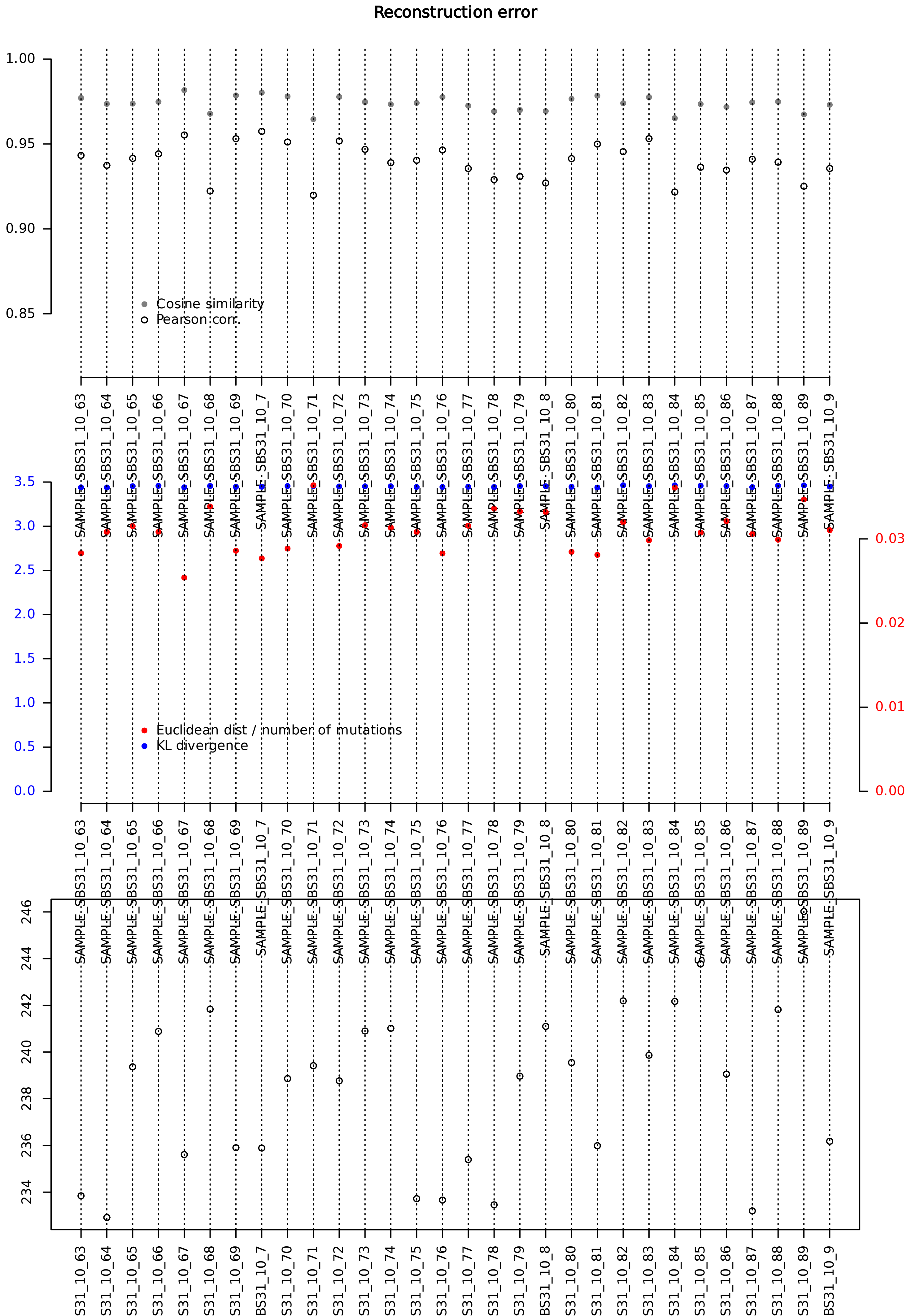
SAMPLE-SBS31_10_61
SAMPLE-SBS31_10_62


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
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
246
244
242
240
238
236
234
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
SAMPLE_SBS31_10_70
SAMPLE_SBS31_10_71
SAMPLE_SBS31_10_72
SAMPLE_SBS31_10_73
SAMPLE_SBS31_10_74
SAMPLE_SBS31_10_75
SAMPLE_SBS31_10_76
SAMPLE_SBS31_10_77
SAMPLE_SBS31_10_78
SAMPLE_SBS31_10_79
SAMPLE_SBS31_10_8
SAMPLE_SBS31_10_80
SAMPLE_SBS31_10_81
SAMPLE_SBS31_10_82
SAMPLE_SBS31_10_83
SAMPLE_SBS31_10_84
SAMPLE_SBS31_10_85
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SAMPLE_SBS31_10_87
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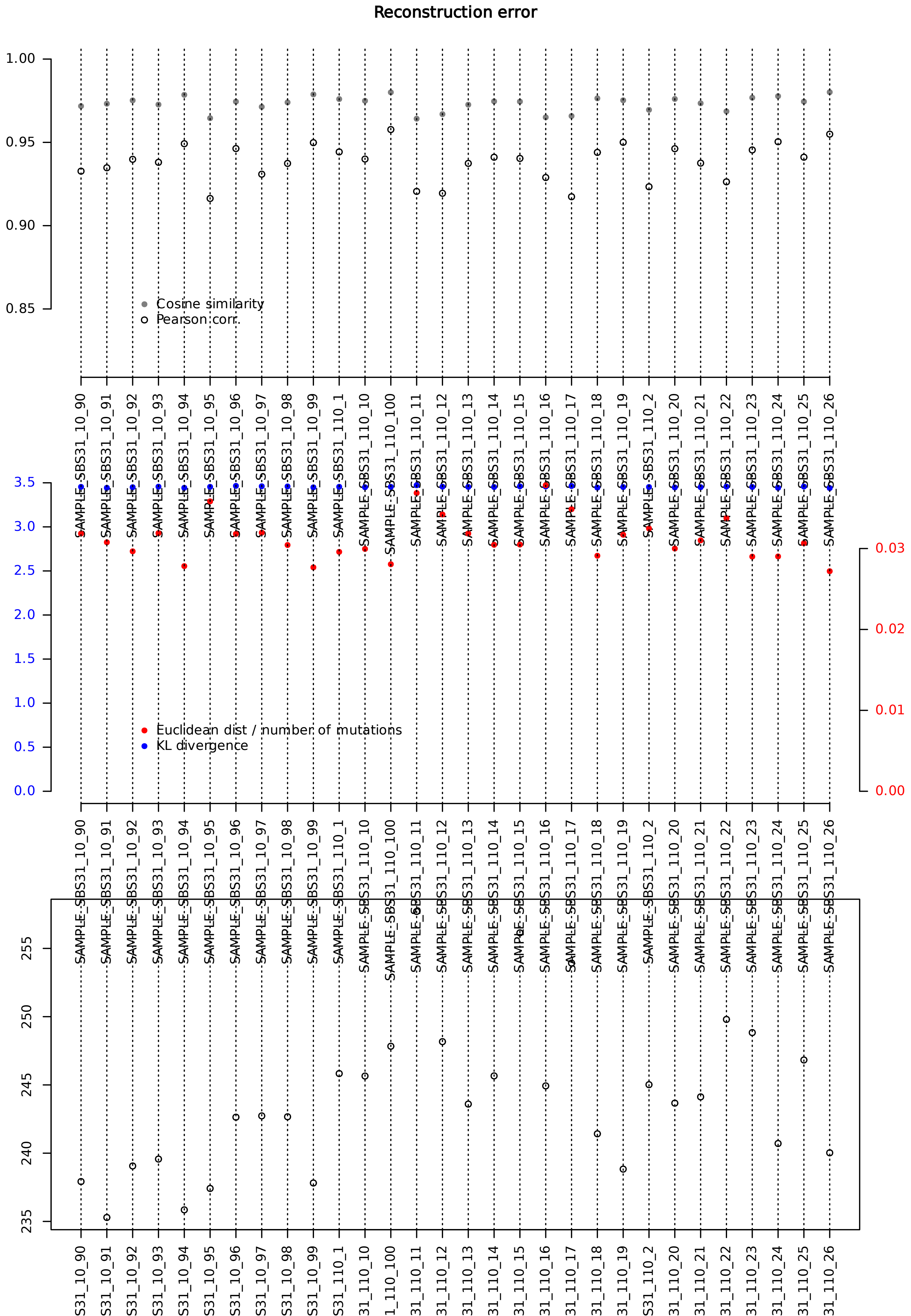
SAMPLE_SBS31_10_89
SAMPLE_SBS31_10_9


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
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
255
250
245
240
235
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
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SAMPLE-SBS31_110_17
SAMPLE-SBS31_110_18
SAMPLE-SBS31_110_19
SAMPLE-SBS31_110_2
SAMPLE-SBS31_110_20
SAMPLE-SBS31_110_21
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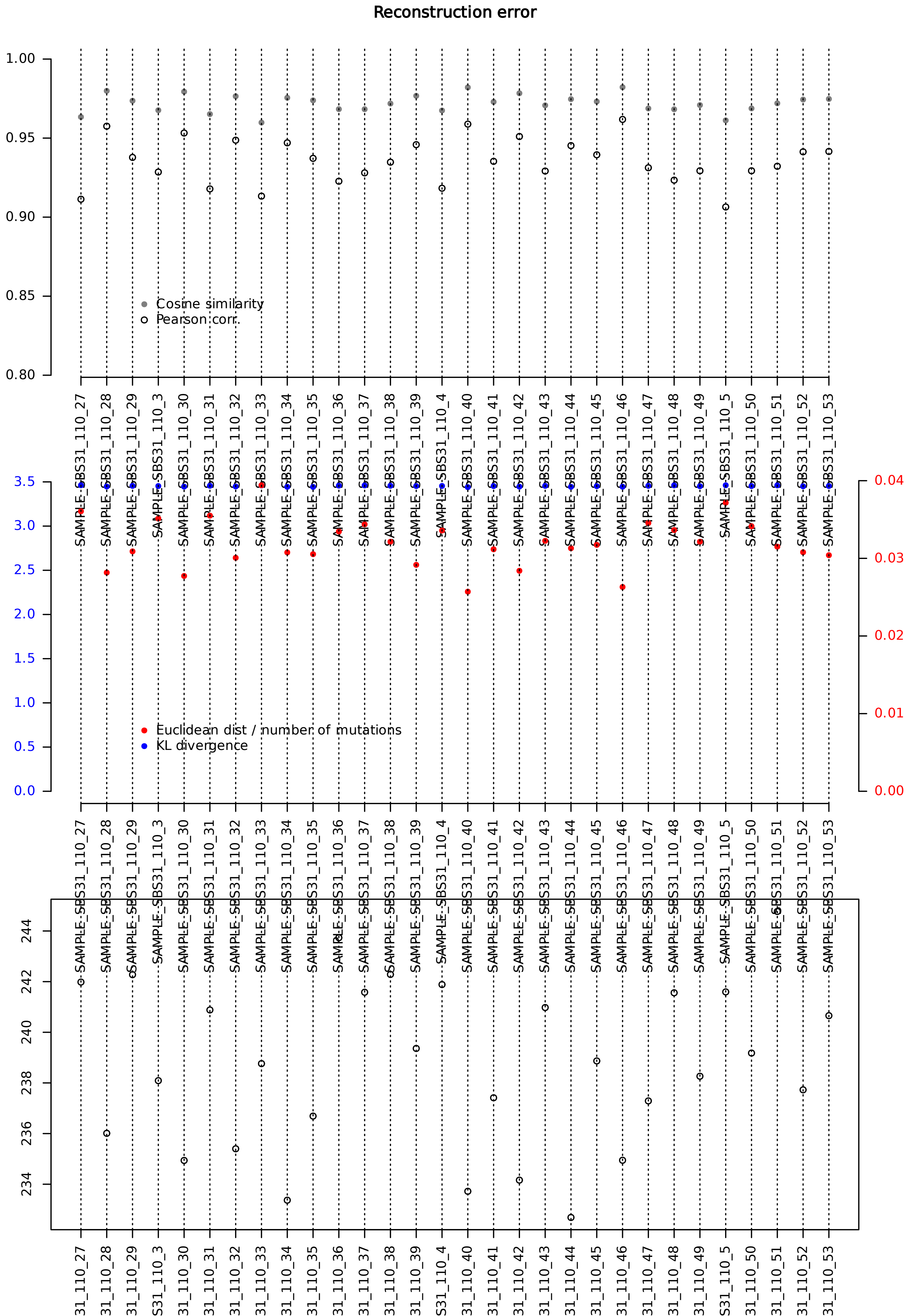
SAMPLE-SBS31_110_23
SAMPLE-SBS31_110_24
SAMPLE-SBS31_110_25
SAMPLE-SBS31_110_26


Reconstruction error
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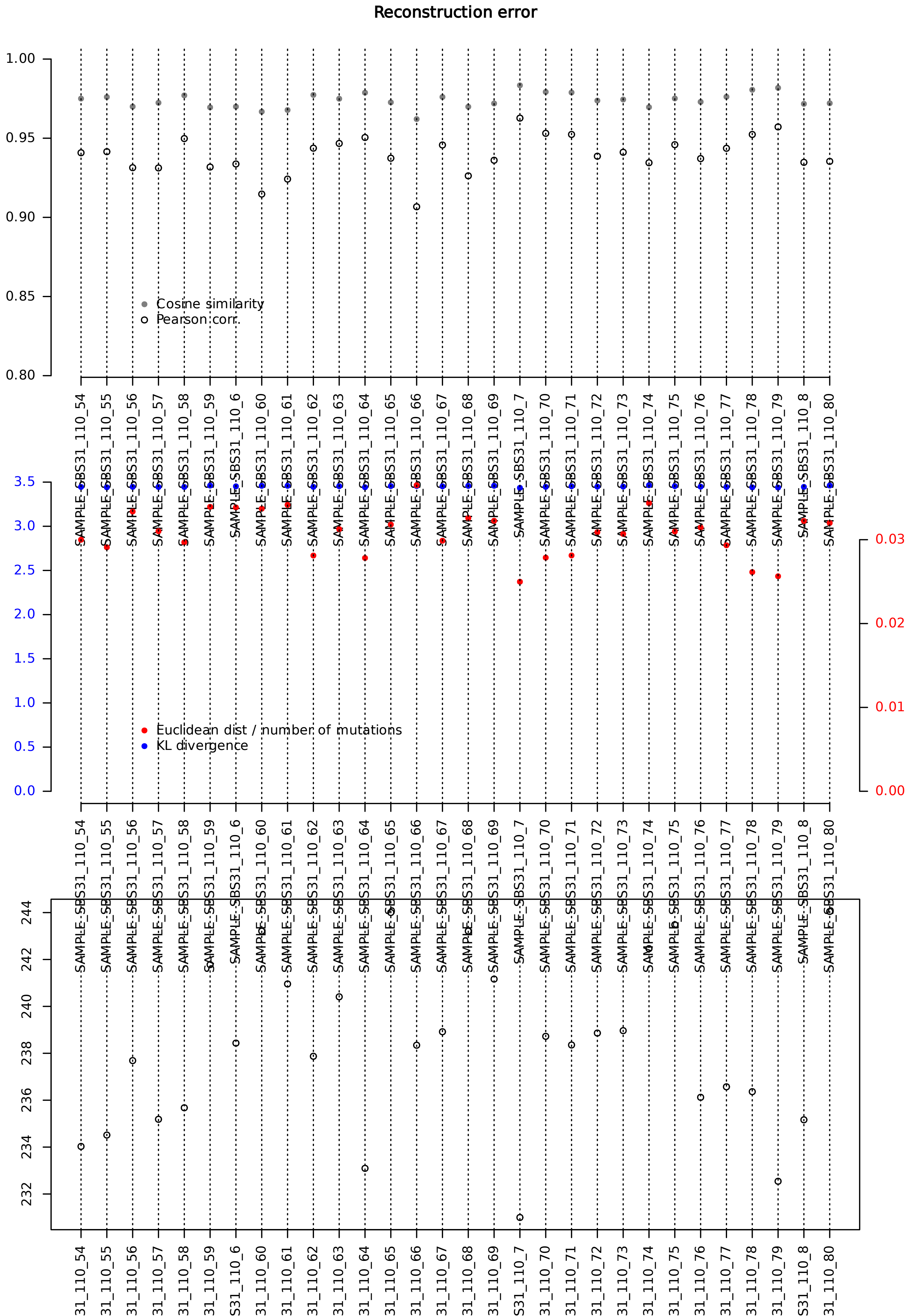
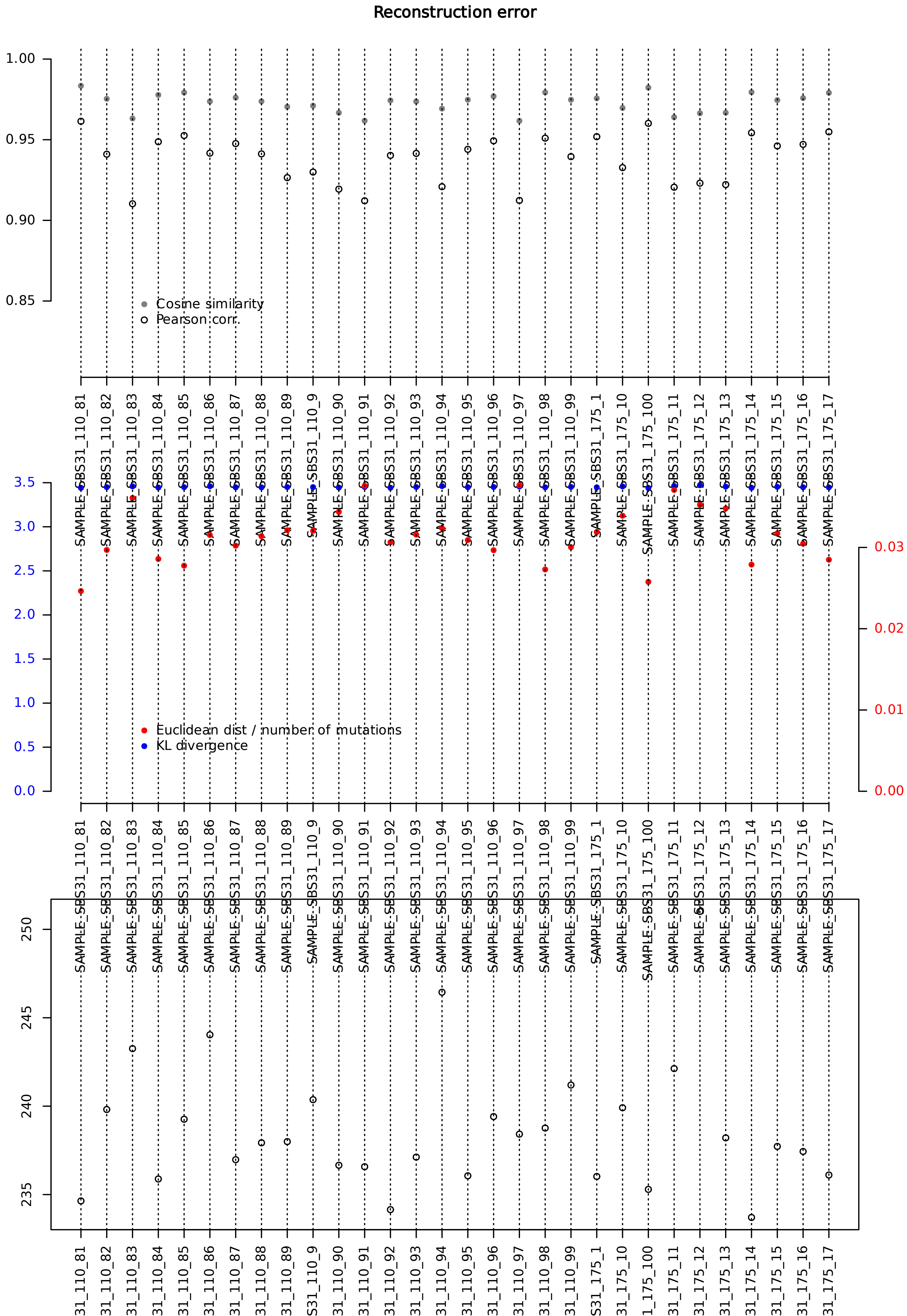
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
244
242
240
238
236
234
SAMPLE-SBS31_110_27
SAMPLE-SBS31_110_28
SAMPLE-SBS31_110_29
SAMPLE-SBS31_110_3
SAMPLE-SBS31_110_30
SAMPLE-SBS31_110_31
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


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
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
250
245
240
235
SAMPLE-SBS31_110_81
SAMPLE-SBS31_110_82
SAMPLE-SBS31_110_83
SAMPLE-SBS31_110_84
SAMPLE-SBS31_110_85
SAMPLE-SBS31_110_86
SAMPLE-SBS31_110_87
SAMPLE-SBS31_110_88
SAMPLE-SBS31_110_89
SAMPLE-SBS31_110_9
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SAMPLE-SBS31_110_91
SAMPLE-SBS31_110_92
SAMPLE-SBS31_110_93
SAMPLE-SBS31_110_94
SAMPLE-SBS31_110_95
SAMPLE-SBS31_110_96
SAMPLE-SBS31_110_97
SAMPLE-SBS31_110_98
SAMPLE-SBS31_110_99
SAMPLE-SBS31_175_1
SAMPLE-SBS31_175_10
SAMPLE-SBS31_175_100
SAMPLE-SBS31_175_11
SAMPLE-SBS31_175_12
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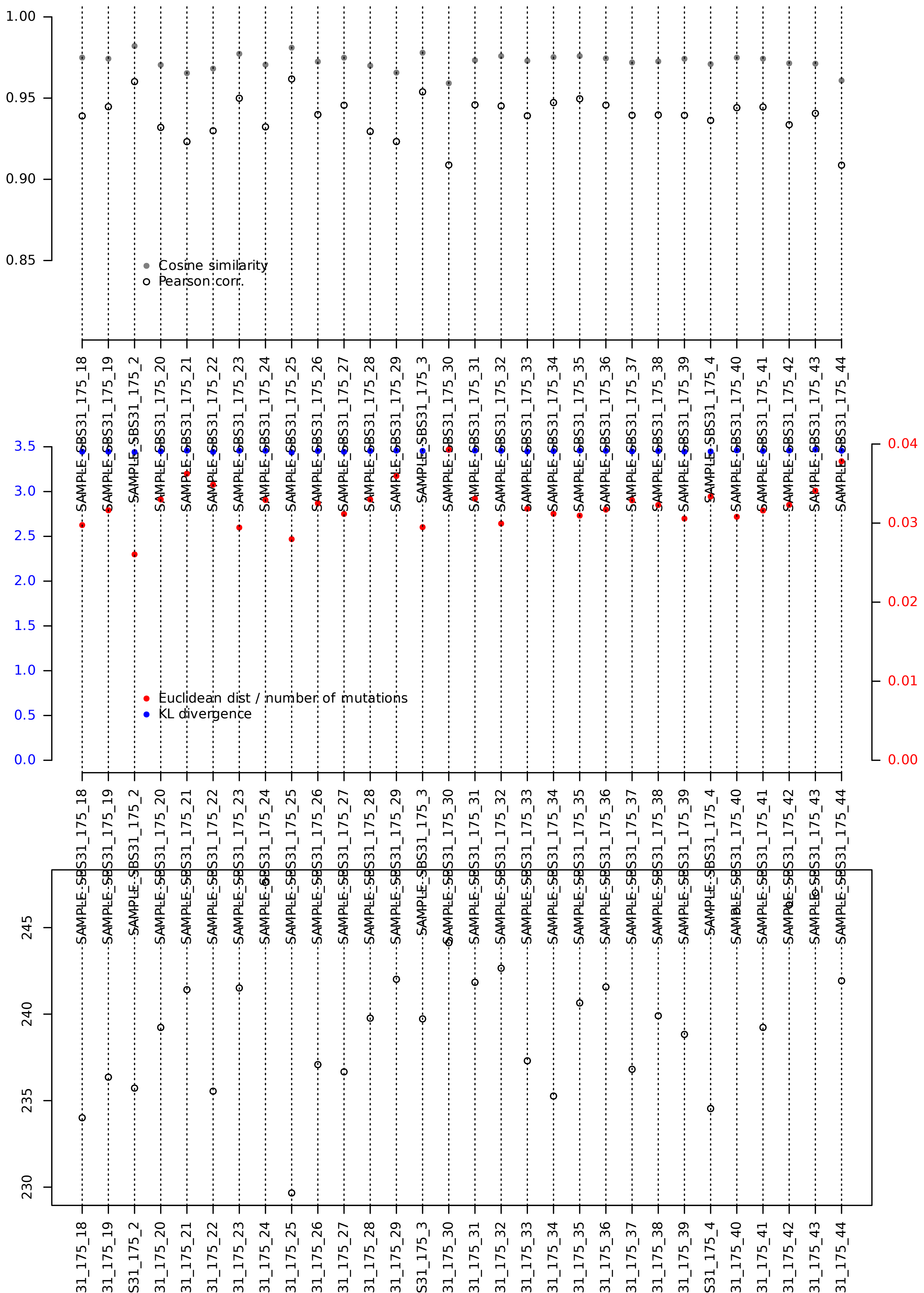
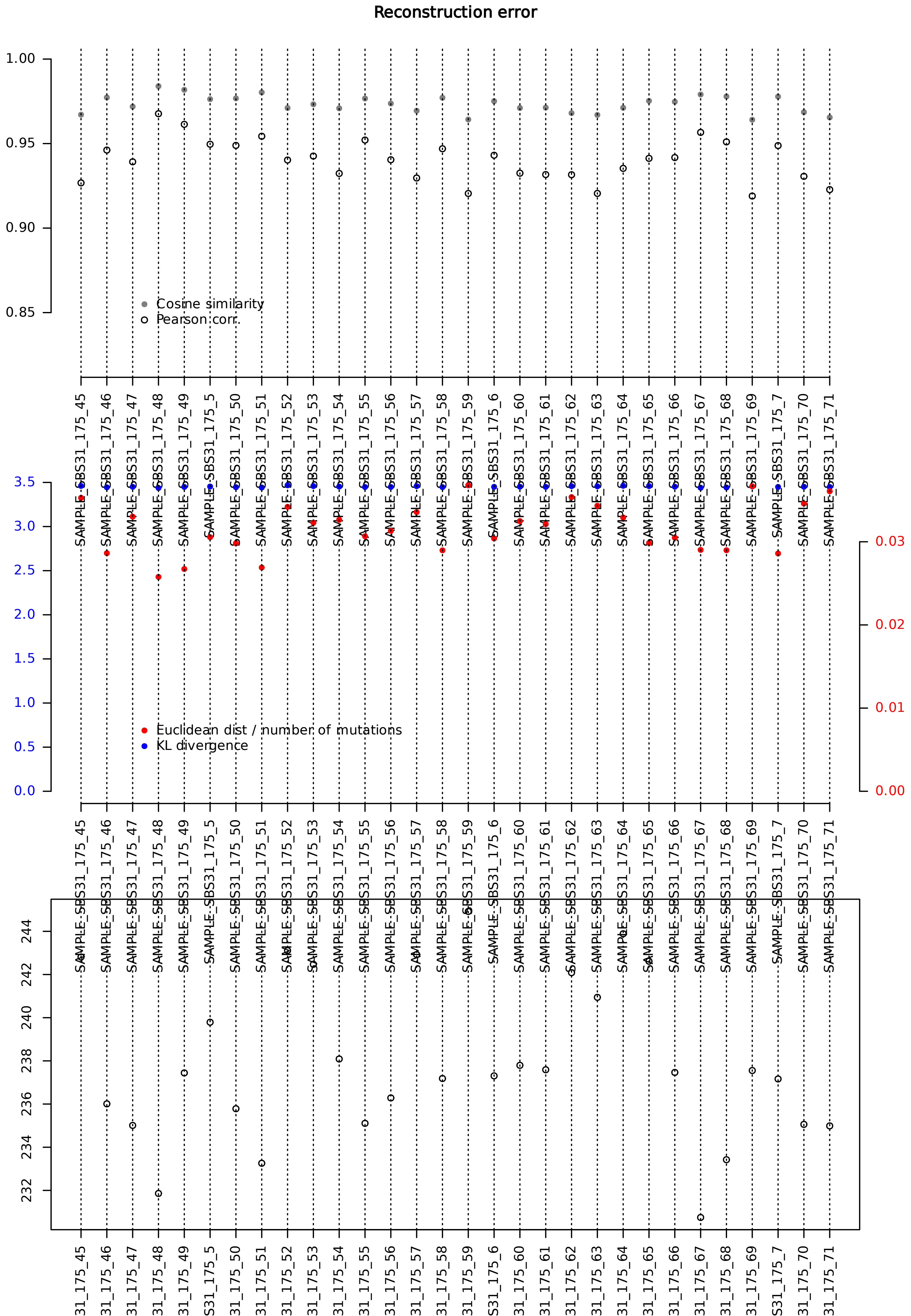
SAMPLE-SBS31_175_14
SAMPLE-SBS31_175_15
SAMPLE-SBS31_175_16
SAMPLE-SBS31_175_17


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
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
244
242
240
238
236
234
232
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
SAMPLE-SBS31_175_52
SAMPLE-SBS31_175_53
SAMPLE-SBS31_175_54
SAMPLE-SBS31_175_55
SAMPLE-SBS31_175_56
SAMPLE-SBS31_175_57
SAMPLE-SBS31_175_58
SAMPLE-SBS31_175_59
SAMPLE-SBS31_175_6
SAMPLE-SBS31_175_60
SAMPLE-SBS31_175_61
SAMPLE-SBS31_175_62
SAMPLE-SBS31_175_63
SAMPLE-SBS31_175_64
SAMPLE-SBS31_175_65
SAMPLE-SBS31_175_66
SAMPLE-SBS31_175_67
SAMPLE-SBS31_175_68
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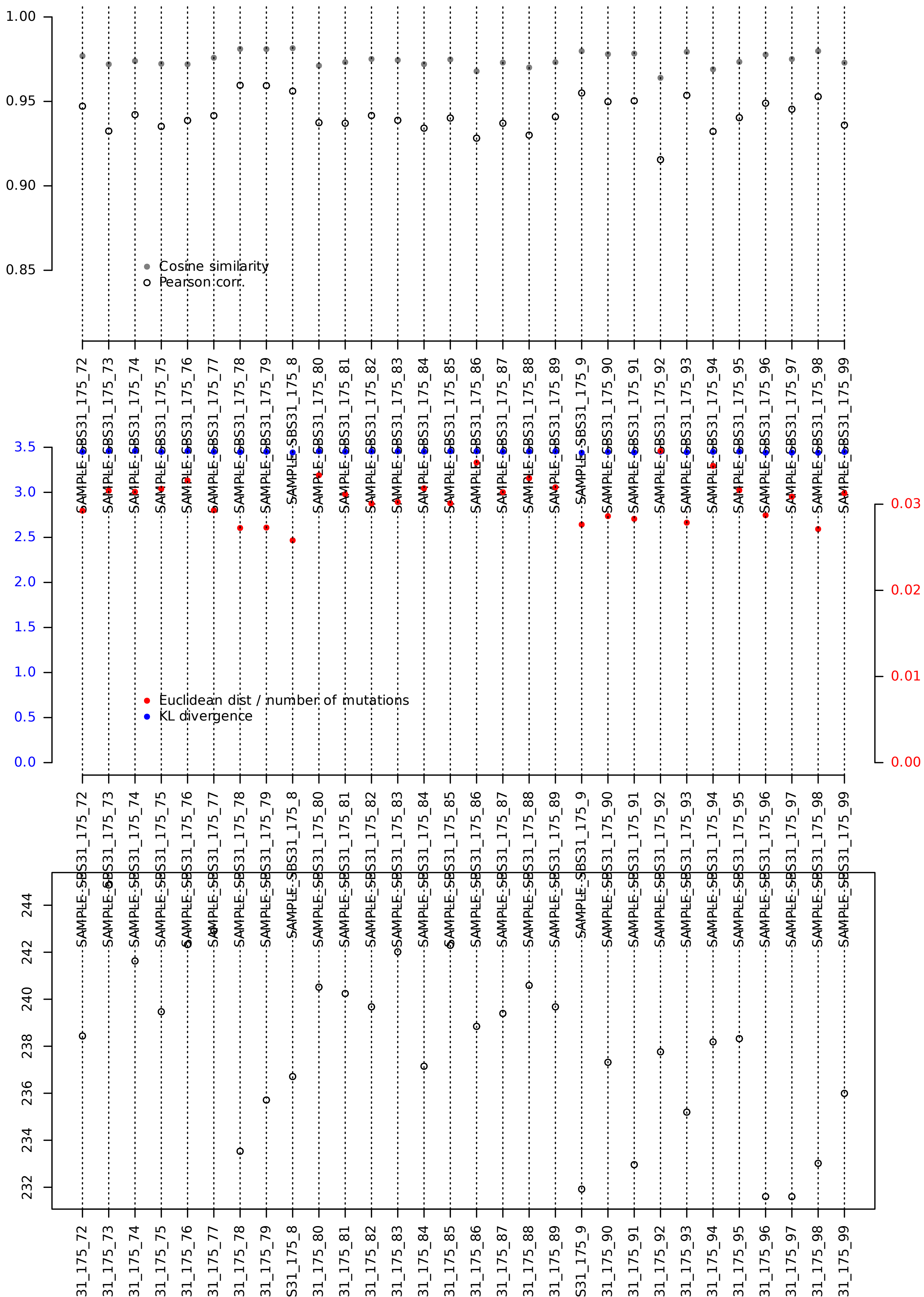
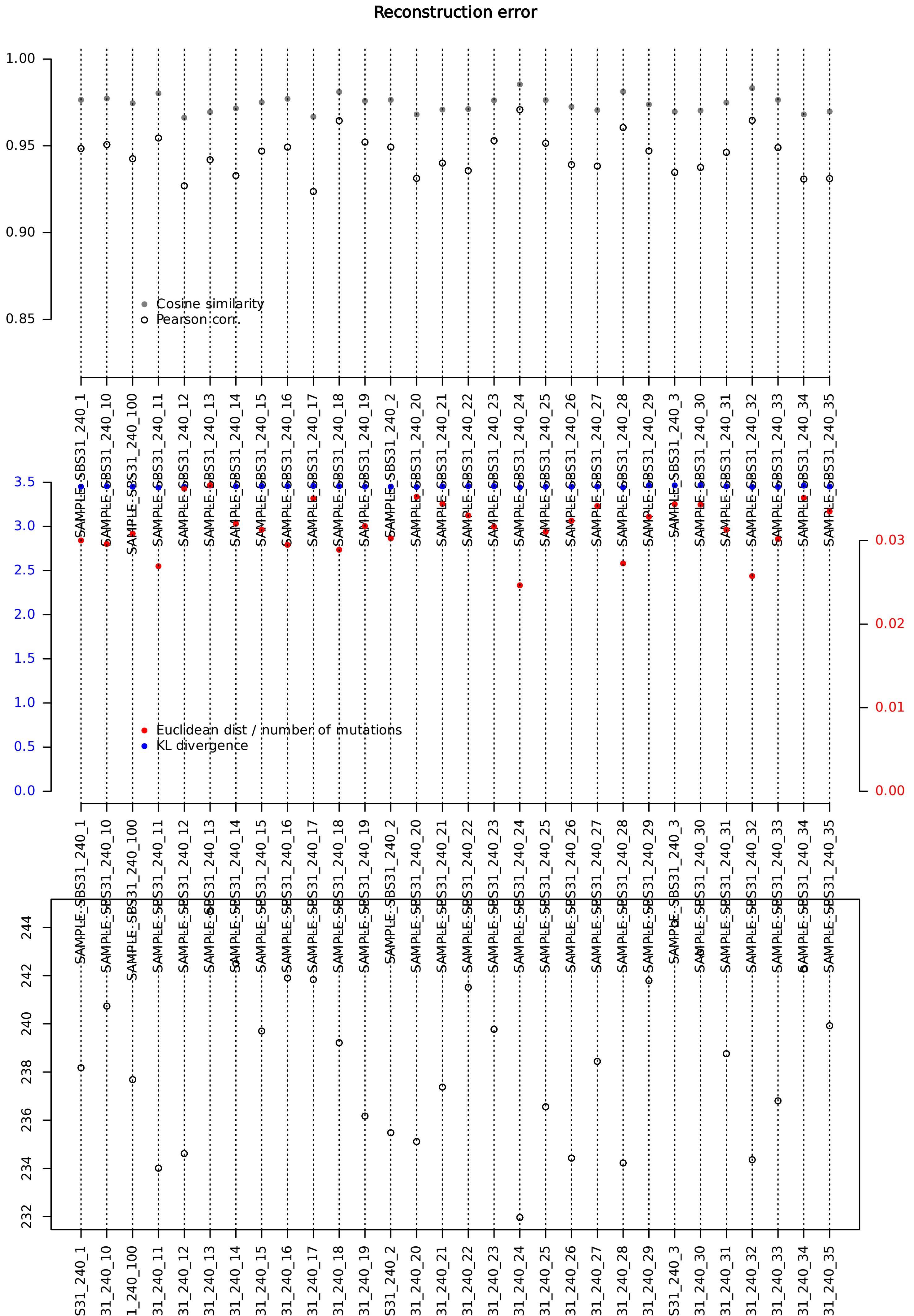
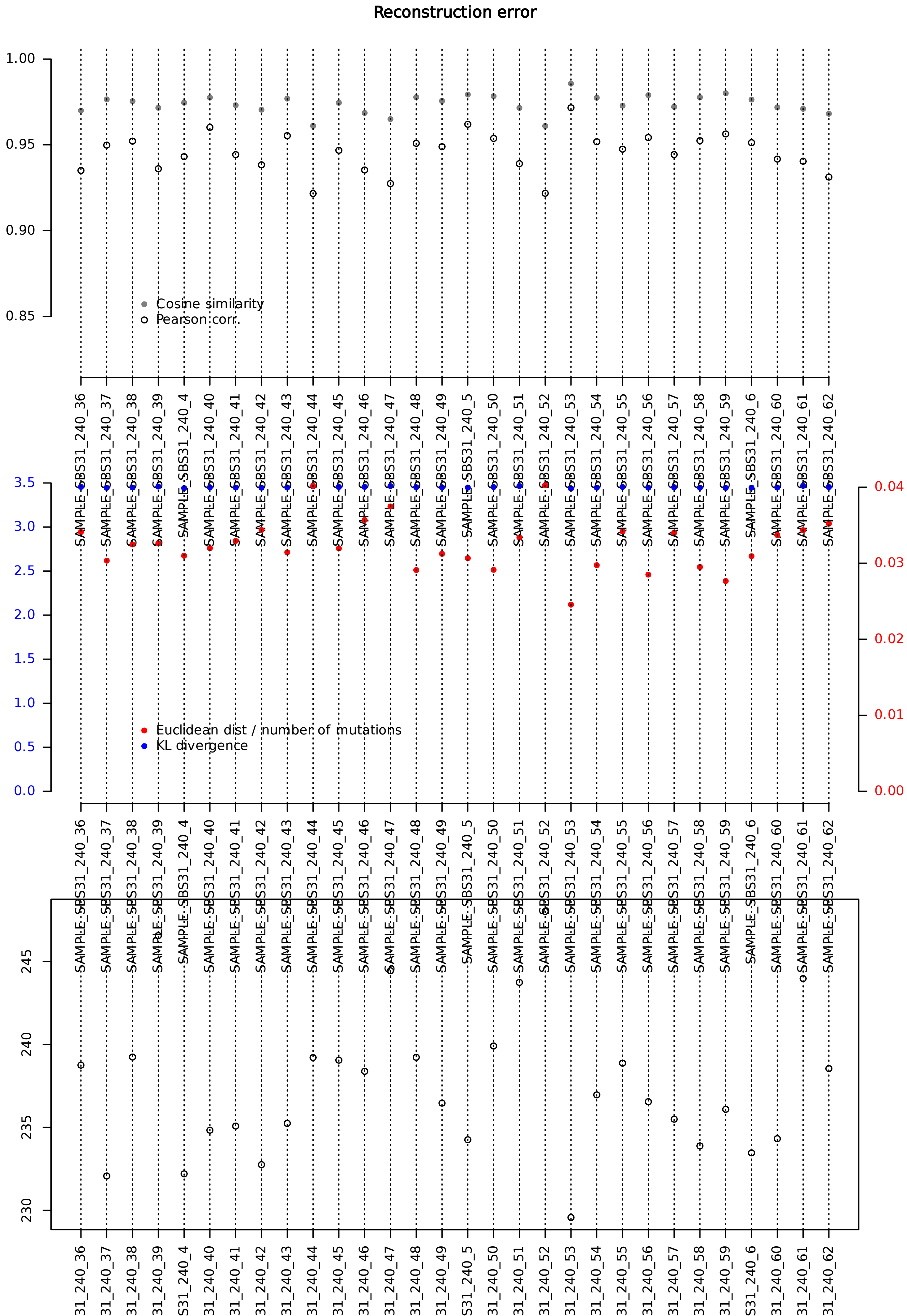
SAMPLE-SBS31_175_7
SAMPLE-SBS31_175_70
SAMPLE-SBS31_175_71

Reconstruction error




Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
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
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
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
244
242
240
238
236
234
232


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
245
240
235
230
SAMPLE-SBS31_240_36
SAMPLE-SBS31_240_37
SAMPLE-SBS31_240_38
SAMPLE-SBS31_240_39
SAMPLE-SBS31_240_4
SAMPLE-SBS31_240_40
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SAMPLE-SBS31_240_42
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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
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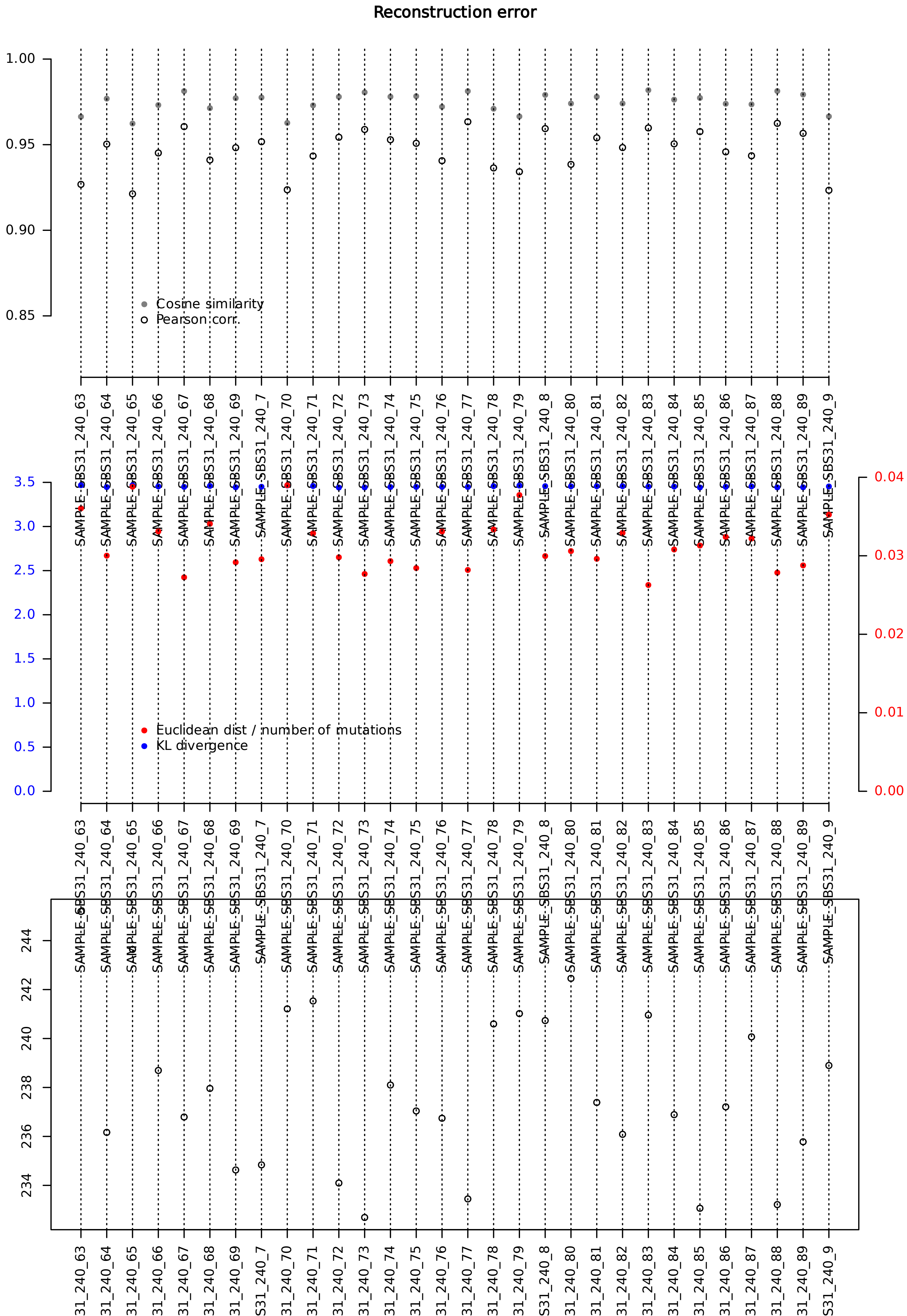
SAMPLE-SBS31_240_60
SAMPLE-SBS31_240_61
SAMPLE-SBS31_240_62


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
244
242
240
238
236
234
SAMPLE-SBS31_240_63
SAMPLE-SBS31_240_64
SAMPLE-SBS31_240_65
SAMPLE-SBS31_240_66
SAMPLE-SBS31_240_67
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SAMPLE-SBS31_240_72
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SAMPLE-SBS31_240_76
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SAMPLE-SBS31_240_79
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SAMPLE-SBS31_240_80
SAMPLE-SBS31_240_81
SAMPLE-SBS31_240_82
SAMPLE-SBS31_240_83
SAMPLE-SBS31_240_84
SAMPLE-SBS31_240_85
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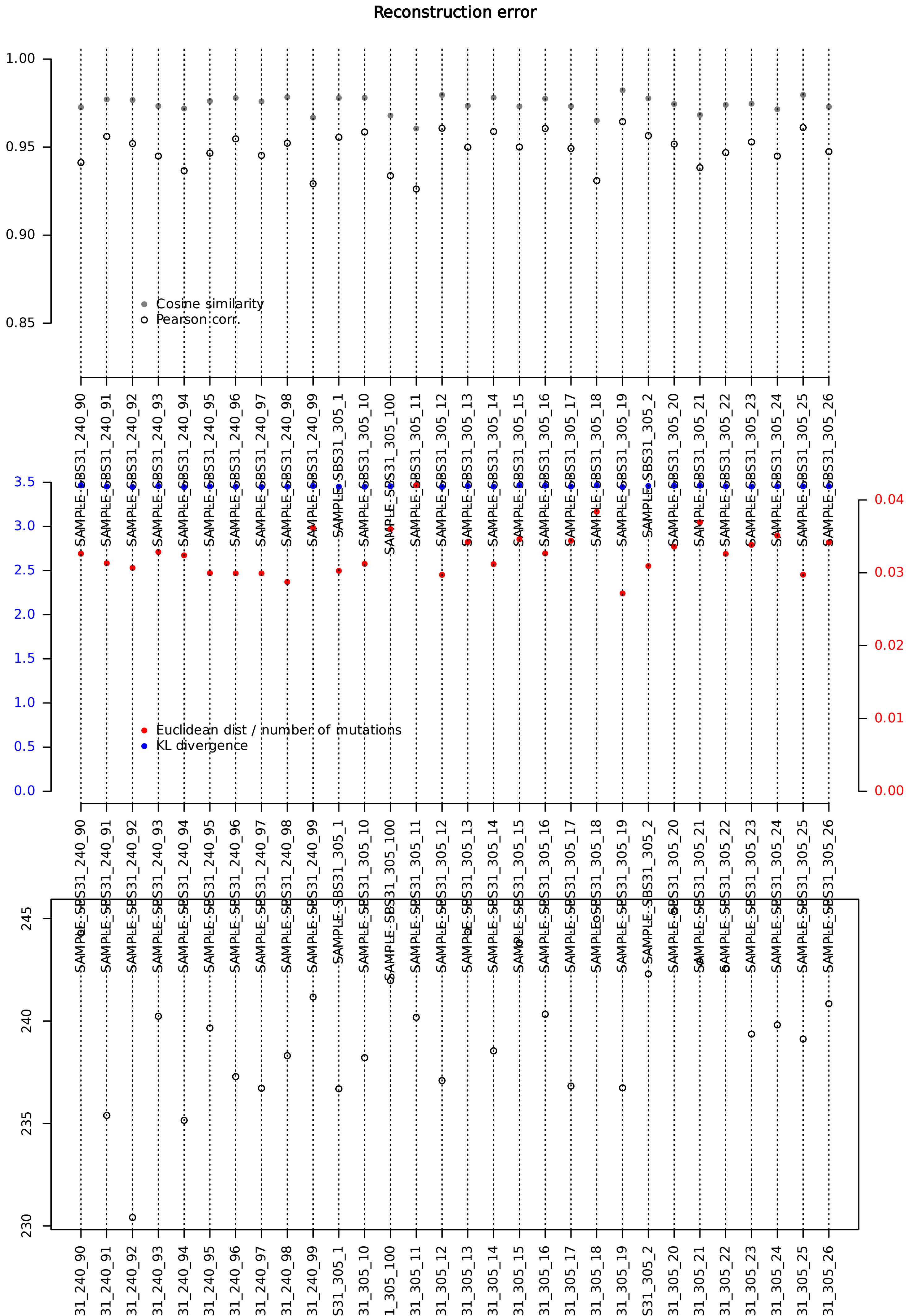
SAMPLE-SBS31_240_87
SAMPLE-SBS31_240_88
SAMPLE-SBS31_240_89
SAMPLE-SBS31_240_9


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
245
240
235
230
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
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
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SAMPLE-SBS31_305_16
SAMPLE-SBS31_305_17
SAMPLE-SBS31_305_18
SAMPLE-SBS31_305_19
SAMPLE-SBS31_305_2
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SAMPLE-SBS31_305_25
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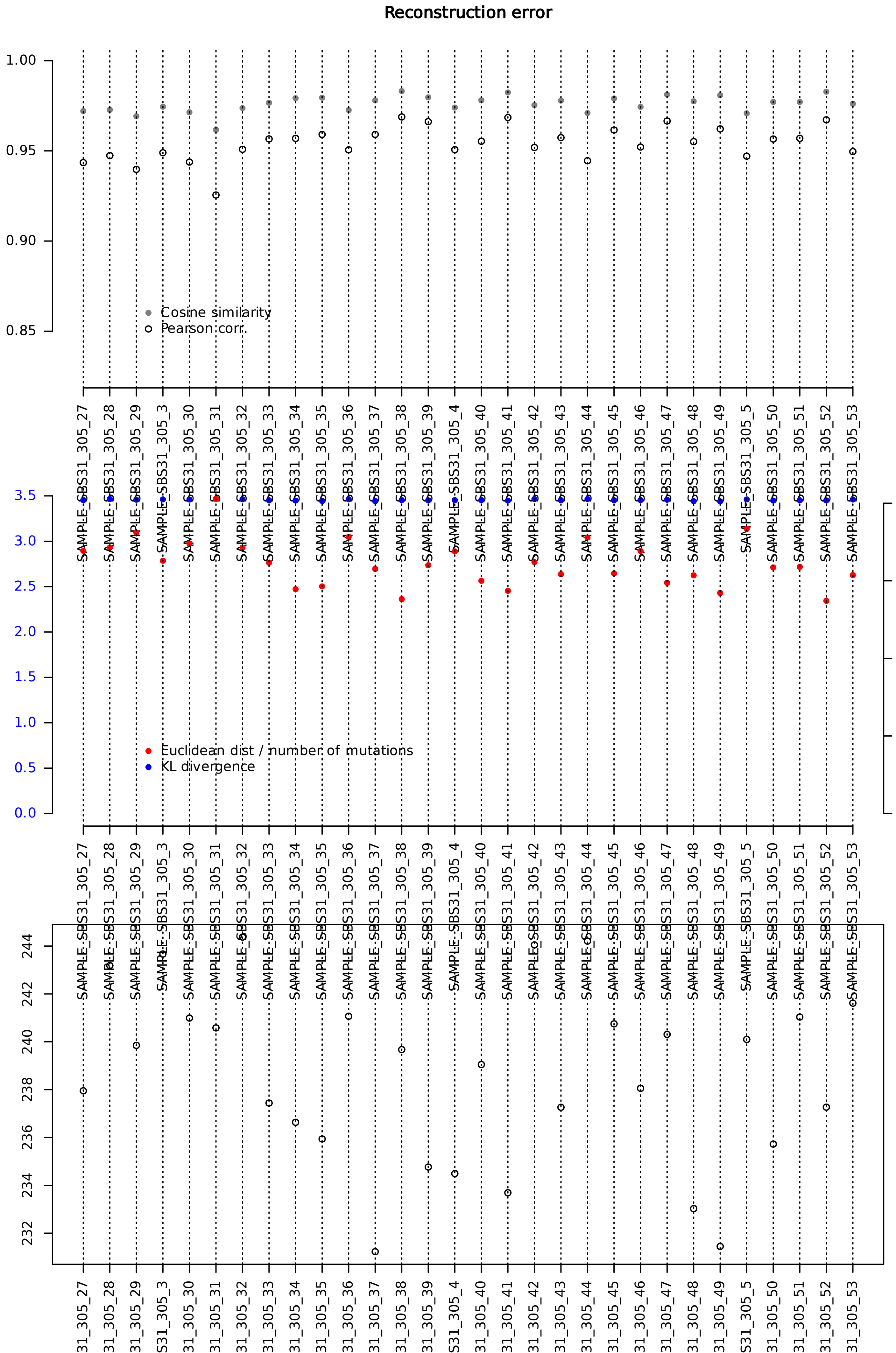
Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
244
242
240
238
236
234
232
SAMPLE-SBS31_305_27
SAMPLE-SBS31_305_28
SAMPLE-SBS31_305_29
SAMPLE-SBS31_305_3
SAMPLE-SBS31_305_30
SAMPLE-SBS31_305_31
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SAMPLE-SBS31_305_33
SAMPLE-SBS31_305_34
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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
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SAMPLE-SBS31_305_44
SAMPLE-SBS31_305_45
SAMPLE-SBS31_305_46
SAMPLE-SBS31_305_47
SAMPLE-SBS31_305_48
SAMPLE-SBS31_305_49
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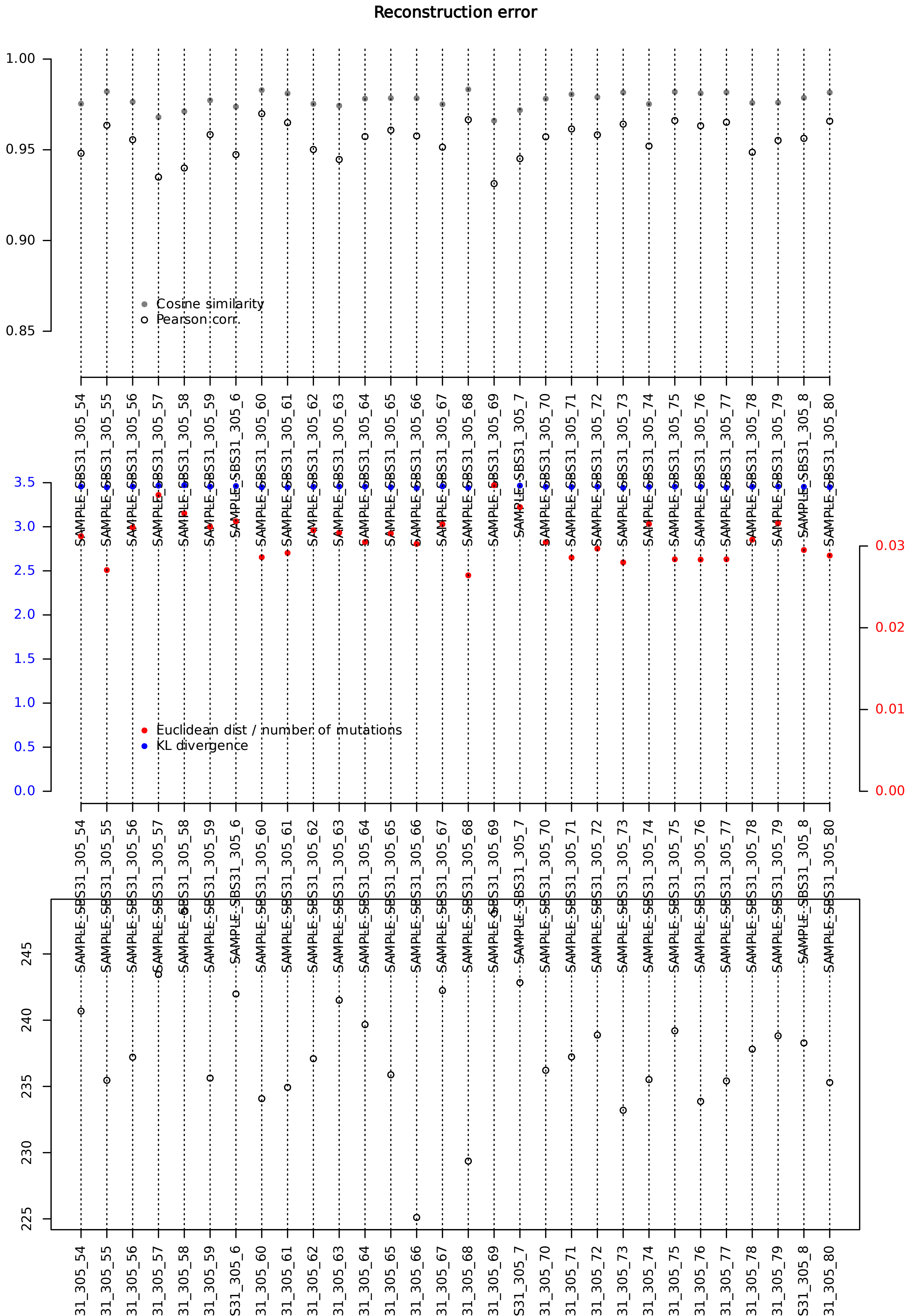
SAMPLE-SBS31_305_50
SAMPLE-SBS31_305_51
SAMPLE-SBS31_305_52
SAMPLE-SBS31_305_53


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
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
245
240
235
230
225
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
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SAMPLE-SBS31_305_72
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SAMPLE-SBS31_305_74
SAMPLE-SBS31_305_75
SAMPLE-SBS31_305_76
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SAMPLE-SBS31_305_8
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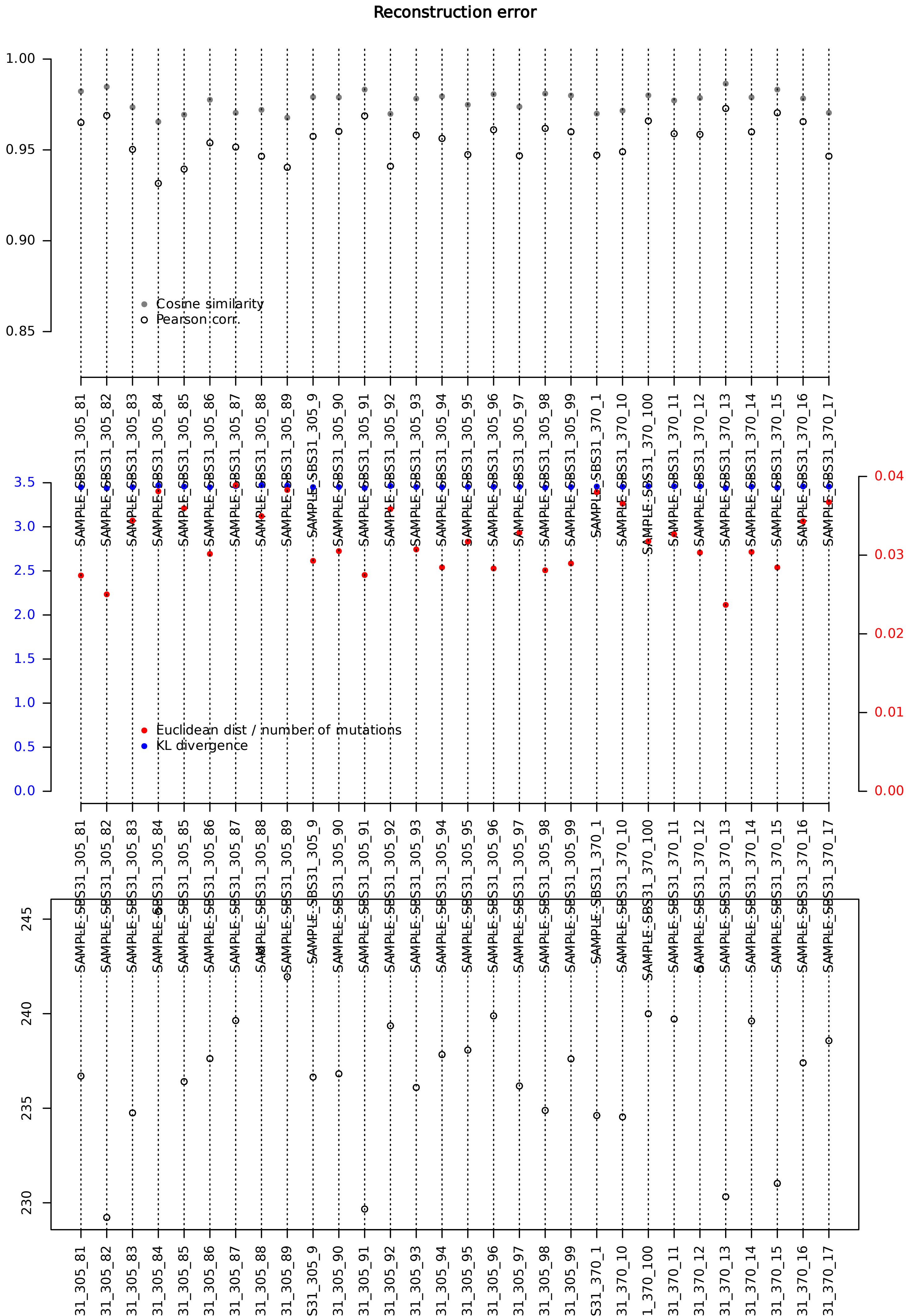
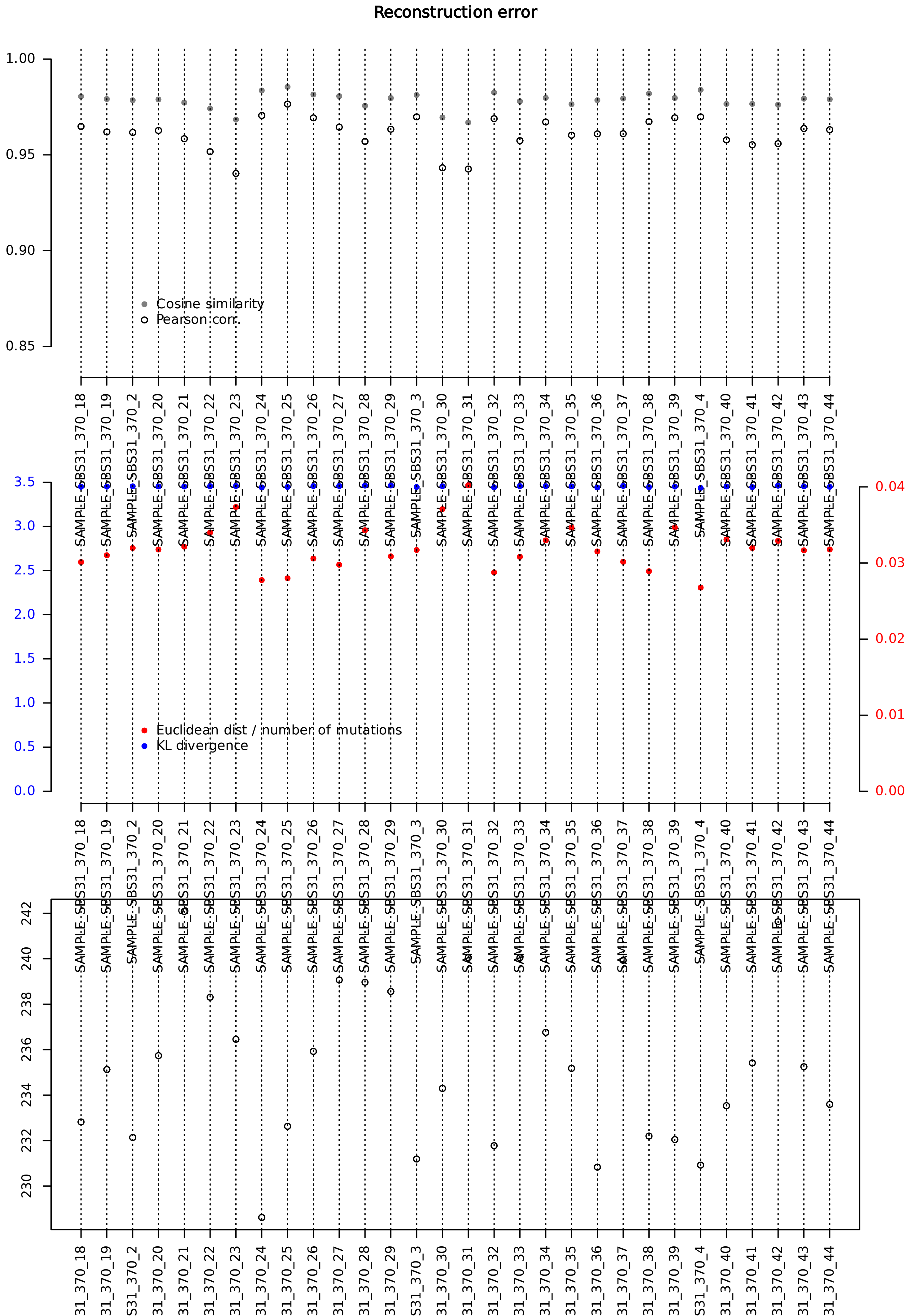
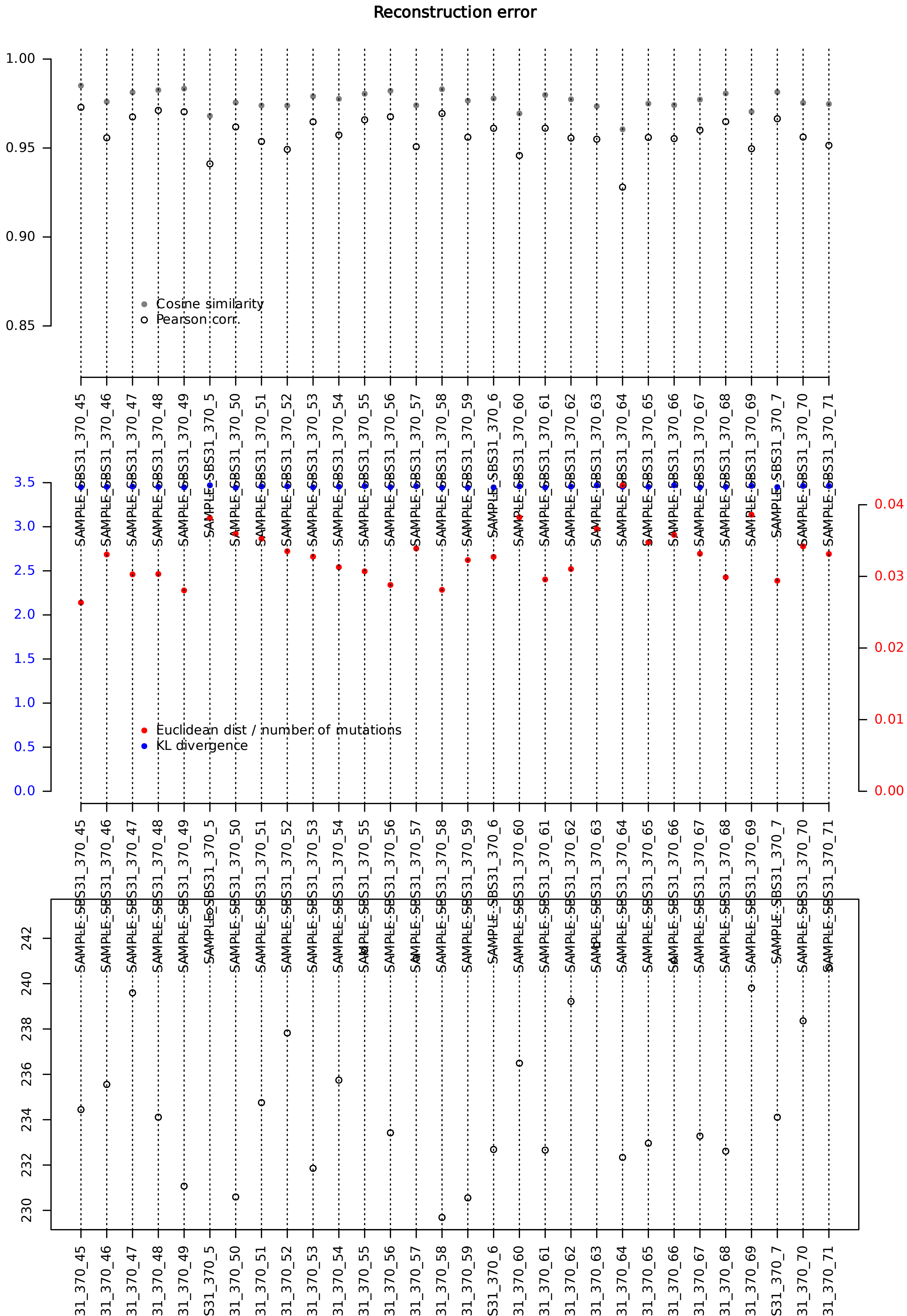
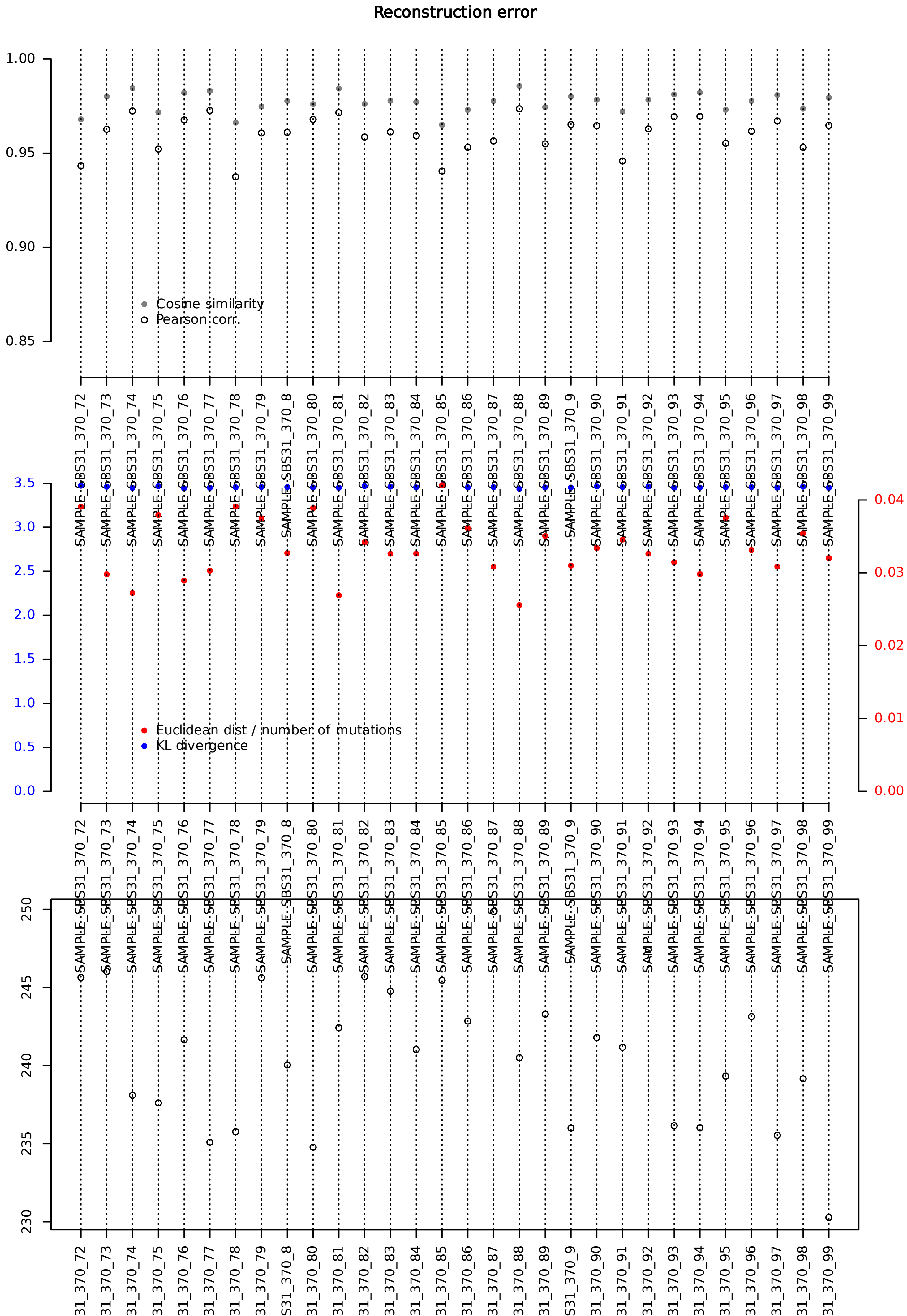
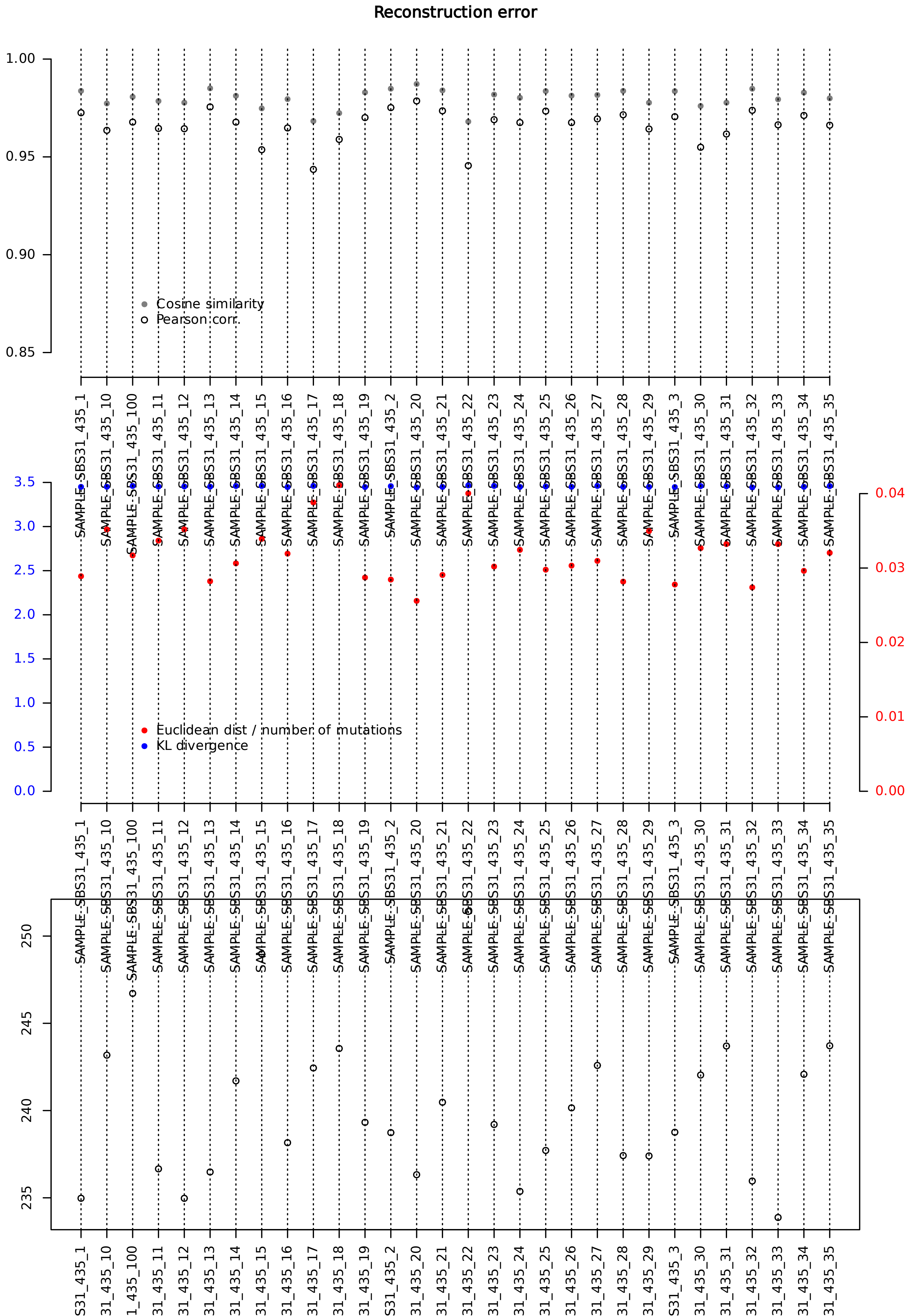

Reconstruction error
1.00
0.95
0.90
0.85
● Cosine similarity
○ Pearson corr.
SAMPLE-SBS31_305_81
SAMPLE-SBS31_305_82
SAMPLE-SBS31_305_83
SAMPLE-SBS31_305_84
SAMPLE-SBS31_305_85
SAMPLE-SBS31_305_86
SAMPLE-SBS31_305_87
SAMPLE-SBS31_305_88
SAMPLE-SBS31_305_89
SAMPLE-SBS31_305_9
SAMPLE-SBS31_305_90
SAMPLE-SBS31_305_91
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_370_1
SAMPLE-SBS31_370_10
SAMPLE-SBS31_370_100
SAMPLE-SBS31_370_11
SAMPLE-SBS31_370_12
SAMPLE-SBS31_370_13
SAMPLE-SBS31_370_14
SAMPLE-SBS31_370_15
SAMPLE-SBS31_370_16
SAMPLE-SBS31_370_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
245
240
235
230


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
242
240
238
236
234
232
230
SAMPLE-SBS31_370_18
SAMPLE-SBS31_370_19
SAMPLE-SBS31_370_2
SAMPLE-SBS31_370_20
SAMPLE-SBS31_370_21
SAMPLE-SBS31_370_22
SAMPLE-SBS31_370_23
SAMPLE-SBS31_370_24
SAMPLE-SBS31_370_25
SAMPLE-SBS31_370_26
SAMPLE-SBS31_370_27
SAMPLE-SBS31_370_28
SAMPLE-SBS31_370_29
SAMPLE-SBS31_370_3
SAMPLE-SBS31_370_30
SAMPLE-SBS31_370_31
SAMPLE-SBS31_370_32
SAMPLE-SBS31_370_33
SAMPLE-SBS31_370_34
SAMPLE-SBS31_370_35
SAMPLE-SBS31_370_36
SAMPLE-SBS31_370_37
SAMPLE-SBS31_370_38
SAMPLE-SBS31_370_39
SAMPLE-SBS31_370_4
SAMPLE-SBS31_370_40
SAMPLE-SBS31_370_41
SAMPLE-SBS31_370_42
SAMPLE-SBS31_370_43
SAMPLE-SBS31_370_44

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
SAMPLE-SBS31_370_45
SAMPLE-SBS31_370_46
SAMPLE-SBS31_370_47
SAMPLE-SBS31_370_48
SAMPLE-SBS31_370_49
SAMPLE-SBS31_370_5
SAMPLE-SBS31_370_50
SAMPLE-SBS31_370_51
SAMPLE-SBS31_370_52
SAMPLE-SBS31_370_53
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
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
242
240
238
236
234
232
230


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
SAMPLE-SBS31_370_72
SAMPLE-SBS31_370_73
SAMPLE-SBS31_370_74
SAMPLE-SBS31_370_75
SAMPLE-SBS31_370_76
SAMPLE-SBS31_370_77
SAMPLE-SBS31_370_78
SAMPLE-SBS31_370_79
SAMPLE-SBS31_370_8
SAMPLE-SBS31_370_80
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
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


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
SAMPLE-SBS31_435_27
SAMPLE-SBS31_435_28
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
250
245
240
235
S31_435_1
31_435_10
1_435_100
31_435_11
31_435_12
31_435_13
31_435_14
31_435_15
31_435_16
31_435_17
31_435_18
31_435_19
S31_435_2
31_435_20
31_435_21
31_435_22
31_435_23
31_435_24
31_435_25
31_435_26
31_435_27
31_435_28
31_435_29
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31_435_30
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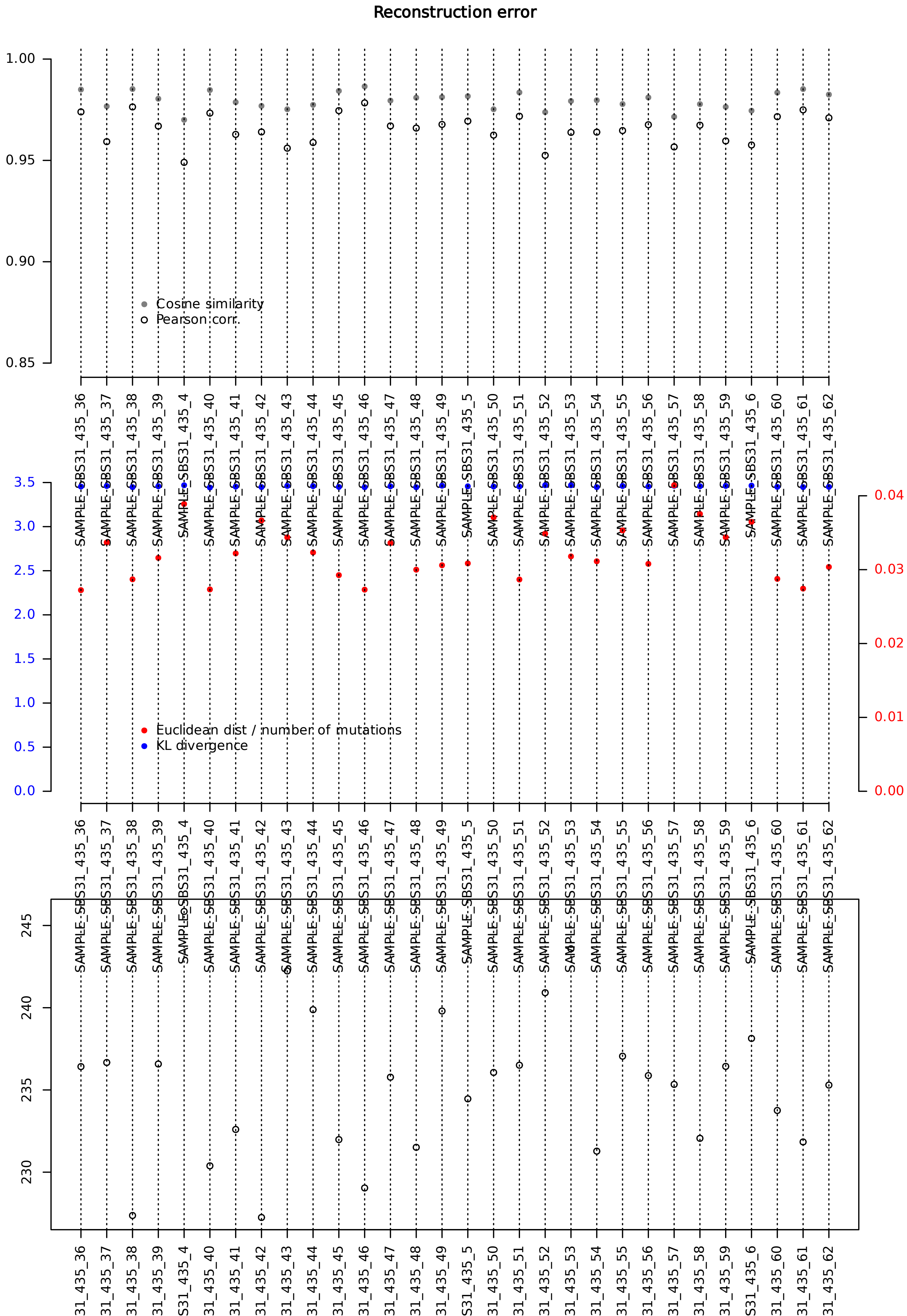
31_435_34
31_435_35


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
245
240
235
230
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
SAMPLE-SBS31_435_43
SAMPLE-SBS31_435_44
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SAMPLE-SBS31_435_46
SAMPLE-SBS31_435_47
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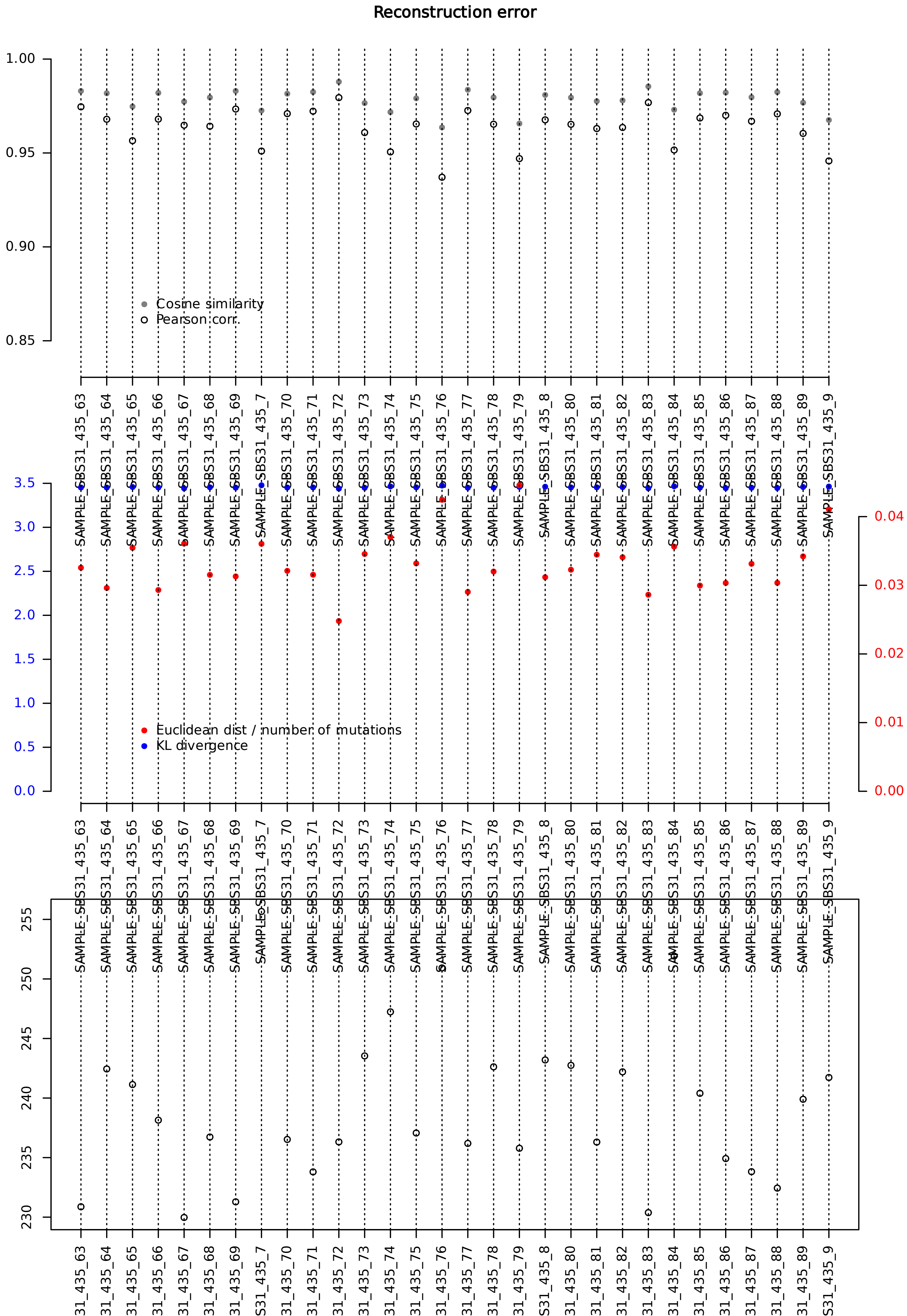
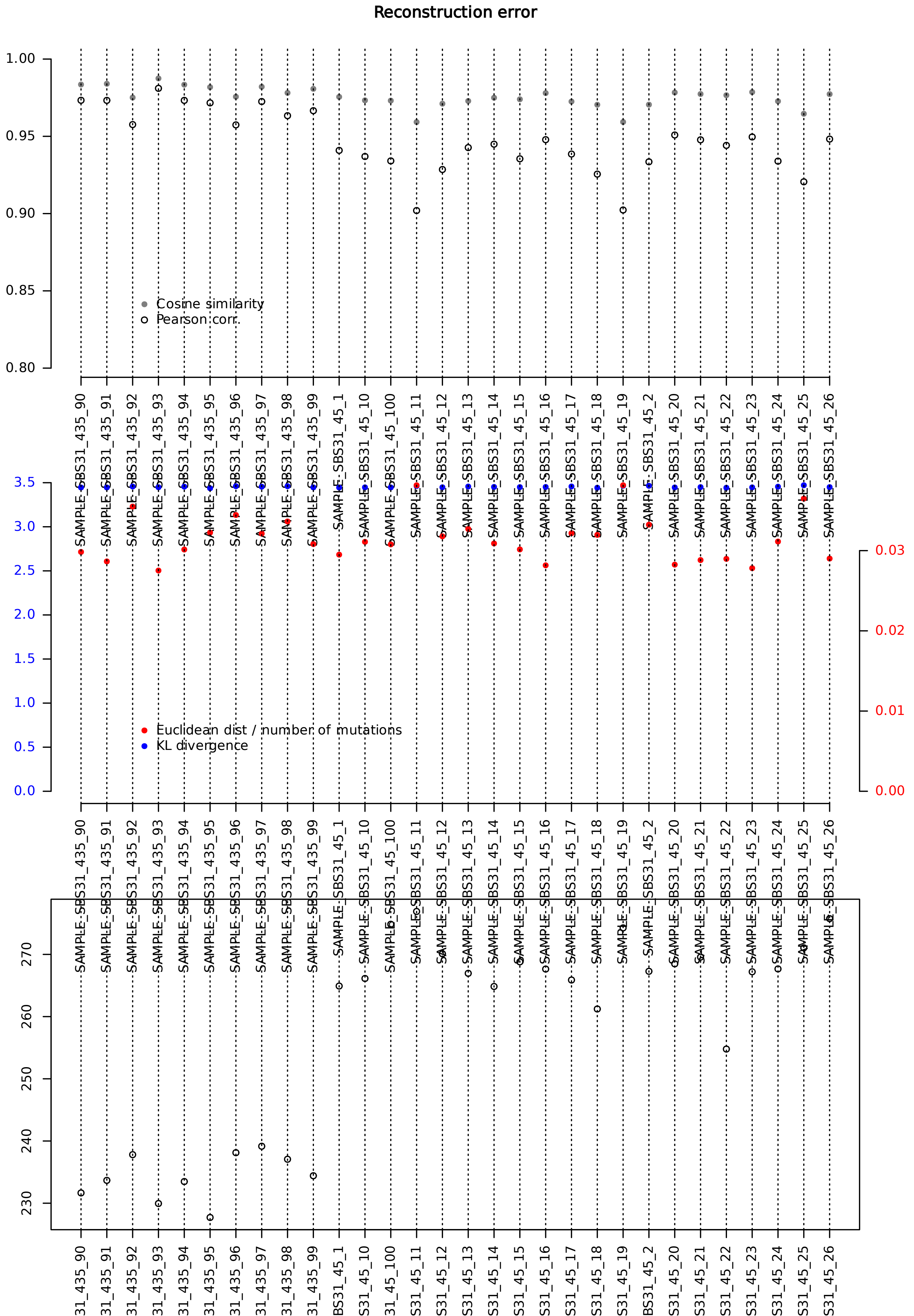
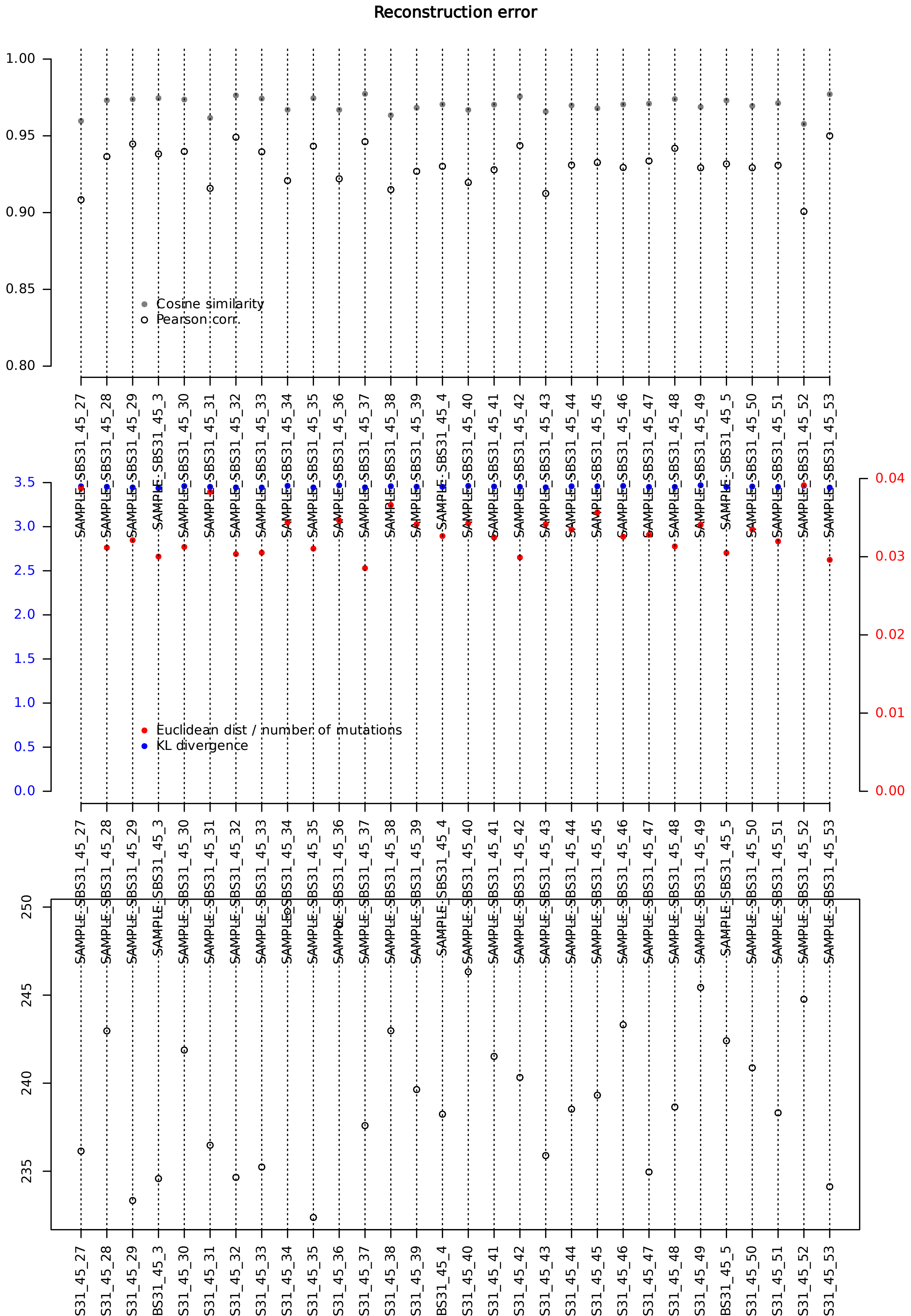
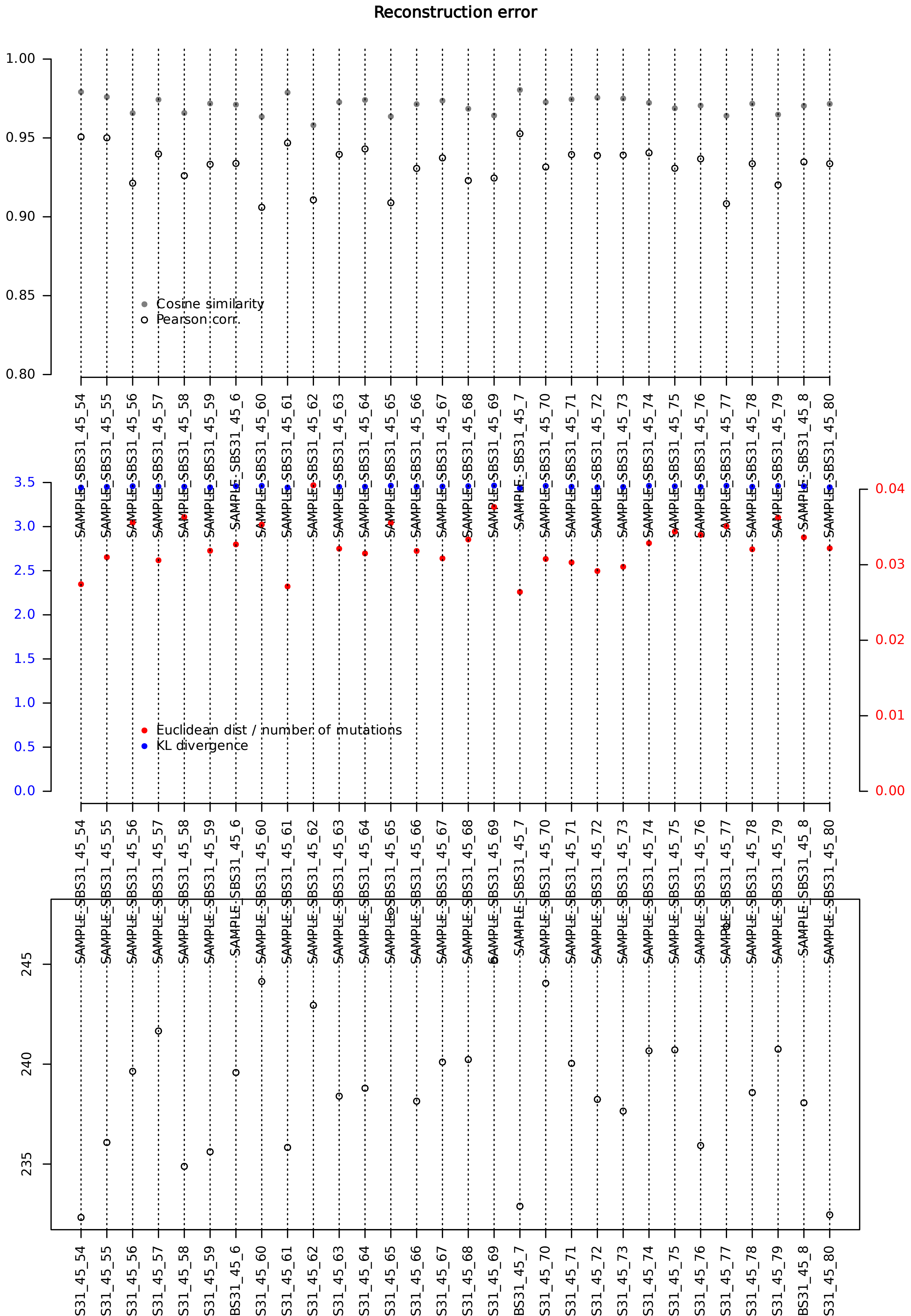
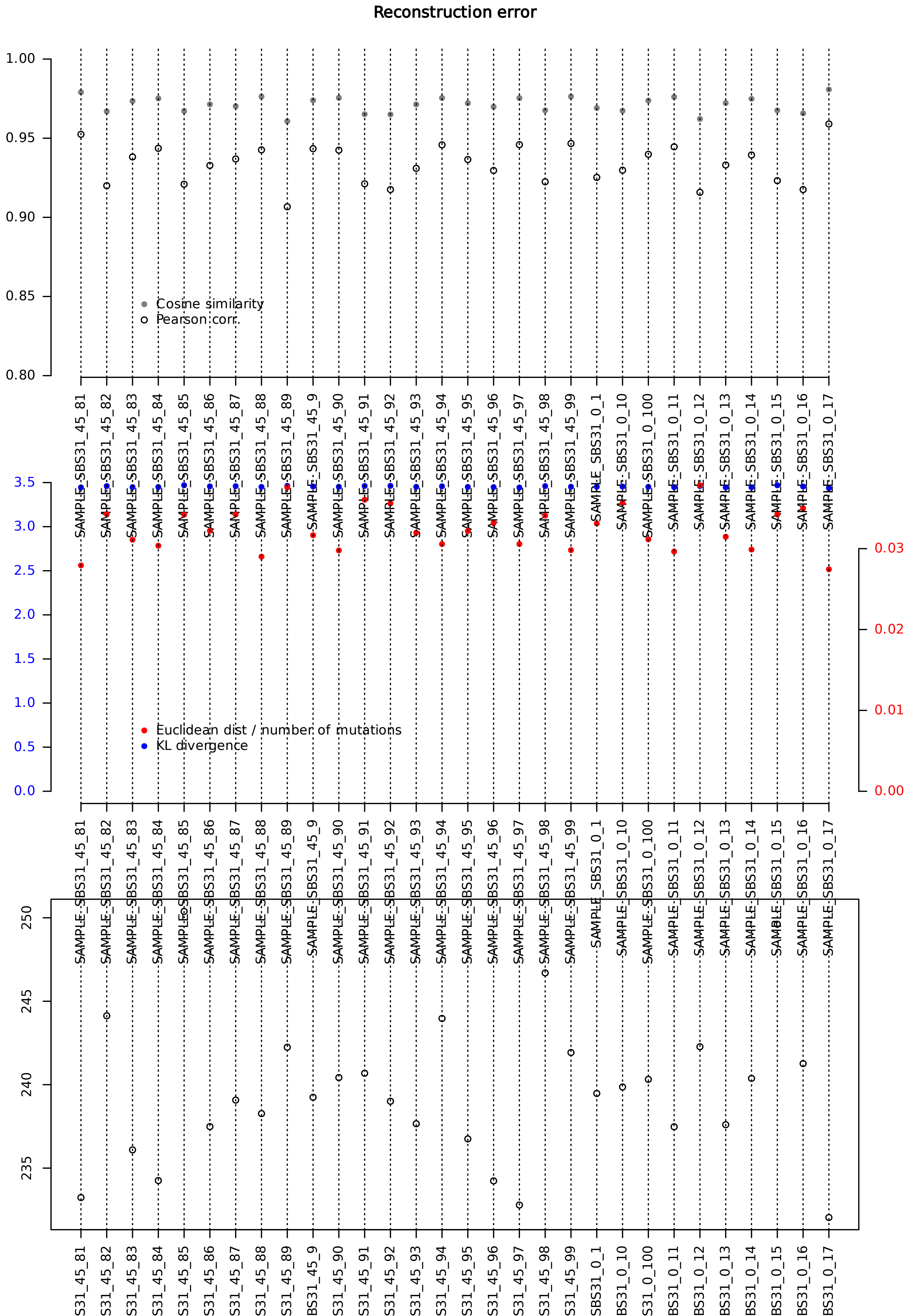
SAMPLE-SBS31_435_5
SAMPLE-SBS31_435_50
SAMPLE-SBS31_435_51
SAMPLE-SBS31_435_52
SAMPLE-SBS31_435_53
SAMPLE-SBS31_435_54
SAMPLE-SBS31_435_55
SAMPLE-SBS31_435_56
SAMPLE-SBS31_435_57
SAMPLE-SBS31_435_58
SAMPLE-SBS31_435_59
SAMPLE-SBS31_435_6
SAMPLE-SBS31_435_60
SAMPLE-SBS31_435_61
SAMPLE-SBS31_435_62

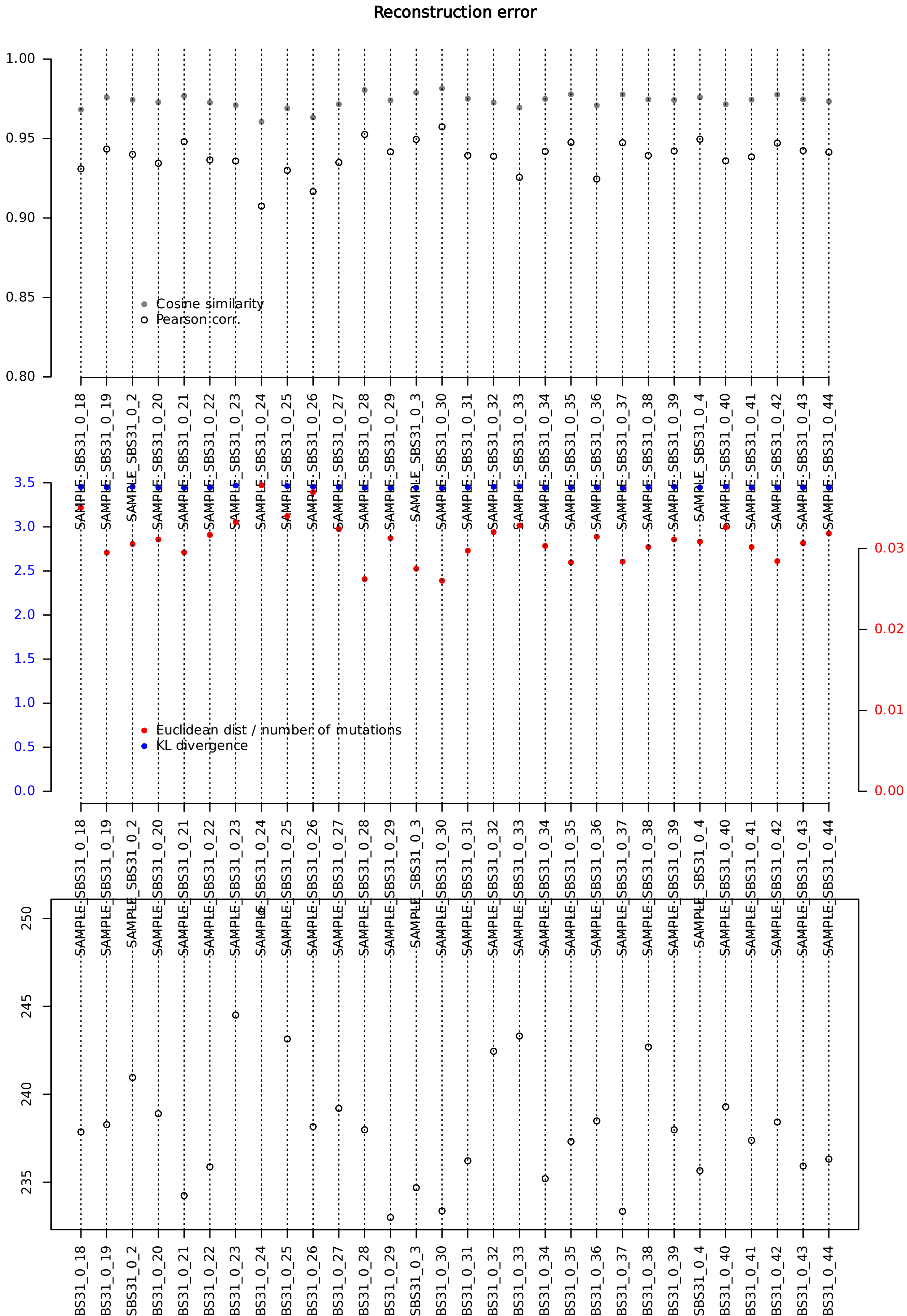

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
255
250
245
240
235
230
SAMPLE-SBS31_435_63
SAMPLE-SBS31_435_64
SAMPLE-SBS31_435_65
SAMPLE-SBS31_435_66
SAMPLE-SBS31_435_67
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
SAMPLE-SBS31_435_86
SAMPLE-SBS31_435_87
SAMPLE-SBS31_435_88
SAMPLE-SBS31_435_89
SAMPLE-SBS31_435_9

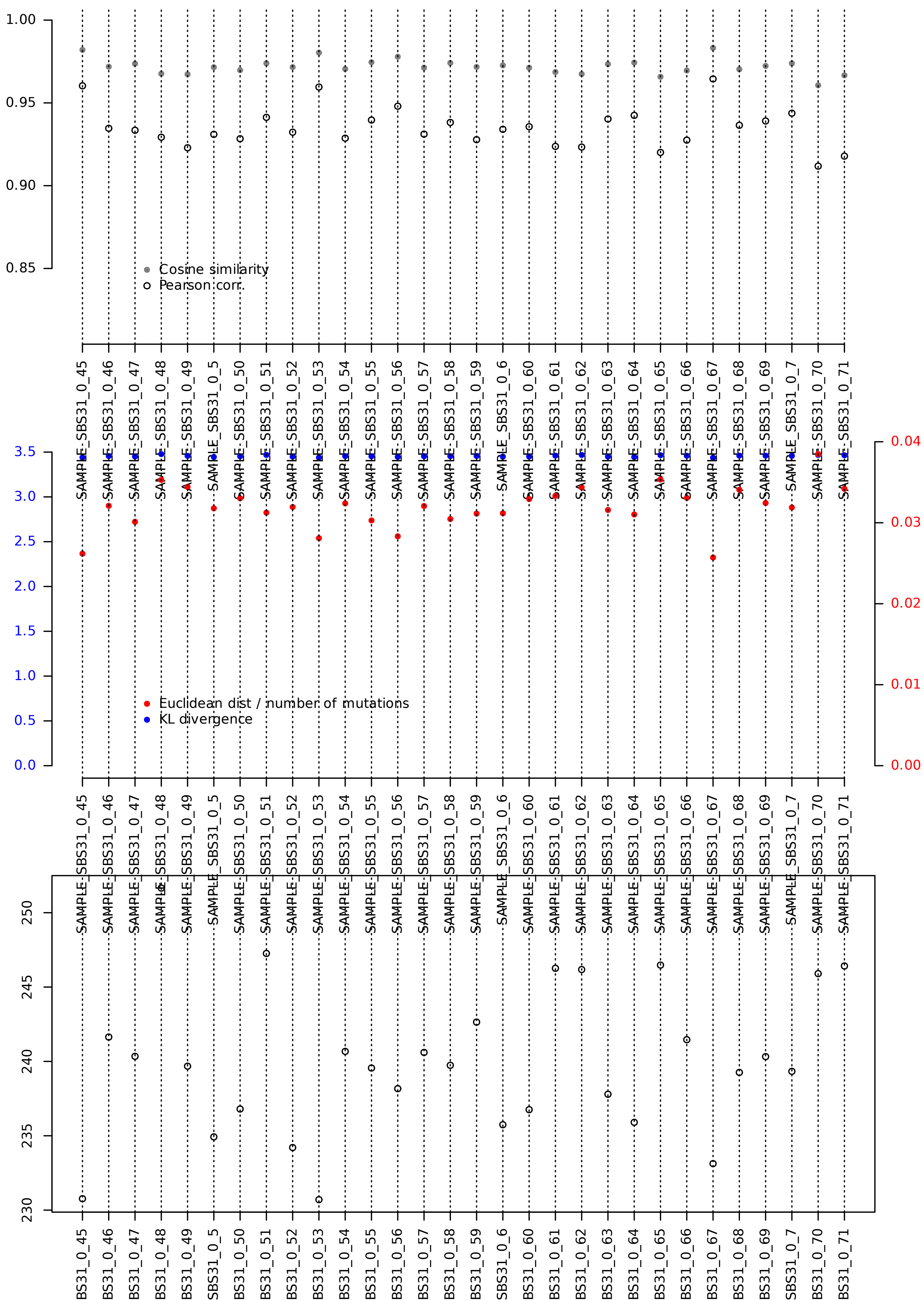

Reconstruction error

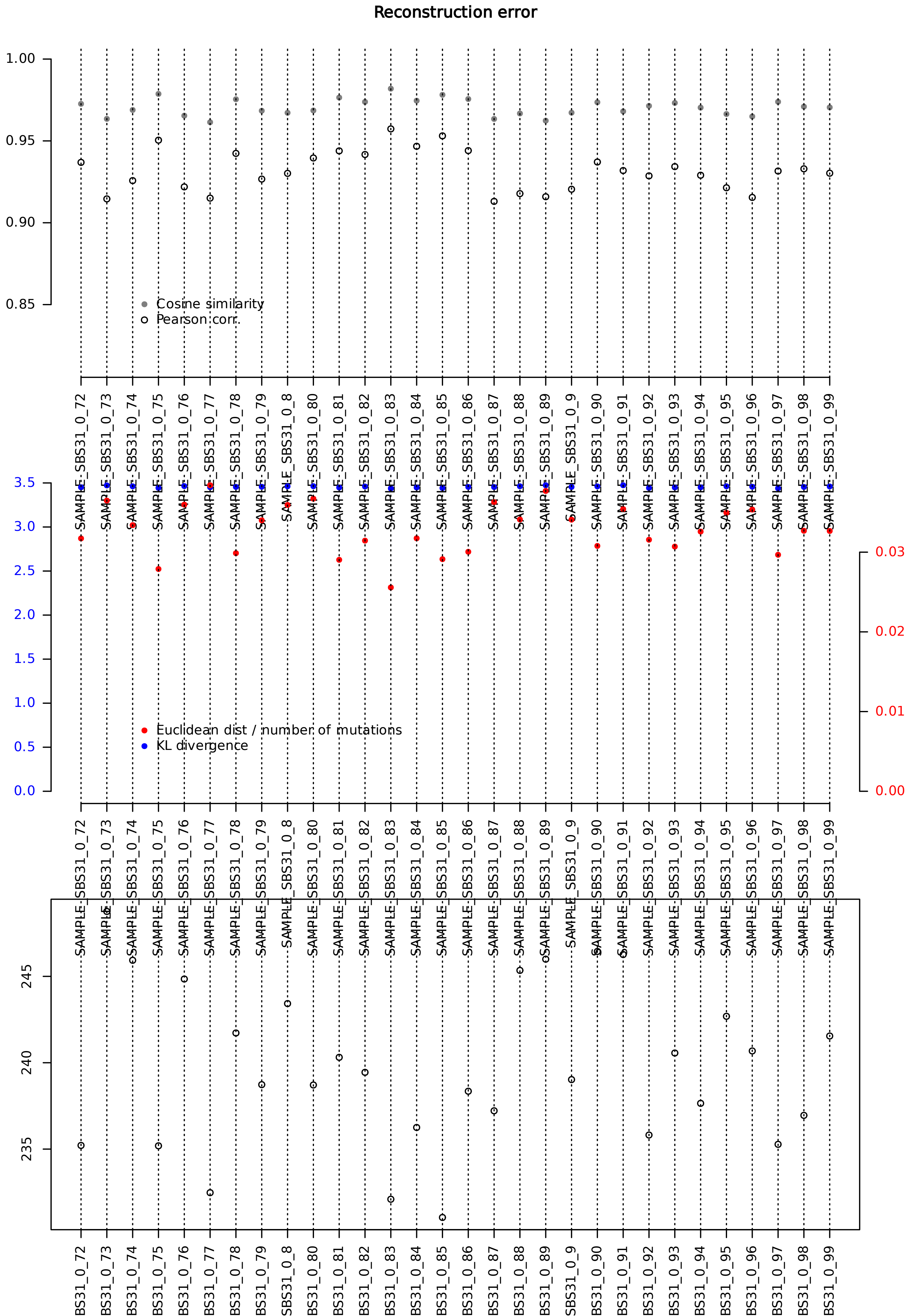

Reconstruction error
1.00
0.95
0.90
0.85
0.80
● Cosine similarity
○ Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
● Euclidean dist / number of mutations
● KL divergence
250
245
240
235
SAMPLE-SBS31_45_27
SAMPLE-SBS31_45_28
SAMPLE-SBS31_45_29
SAMPLE-SBS31_45_3
SAMPLE-SBS31_45_30
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
SAMPLE-SBS31_45_45
SAMPLE-SBS31_45_46
SAMPLE-SBS31_45_47
SAMPLE-SBS31_45_48
SAMPLE-SBS31_45_49
SAMPLE-SBS31_45_5
SAMPLE-SBS31_45_50
SAMPLE-SBS31_45_51
SAMPLE-SBS31_45_52
SAMPLE-SBS31_45_53

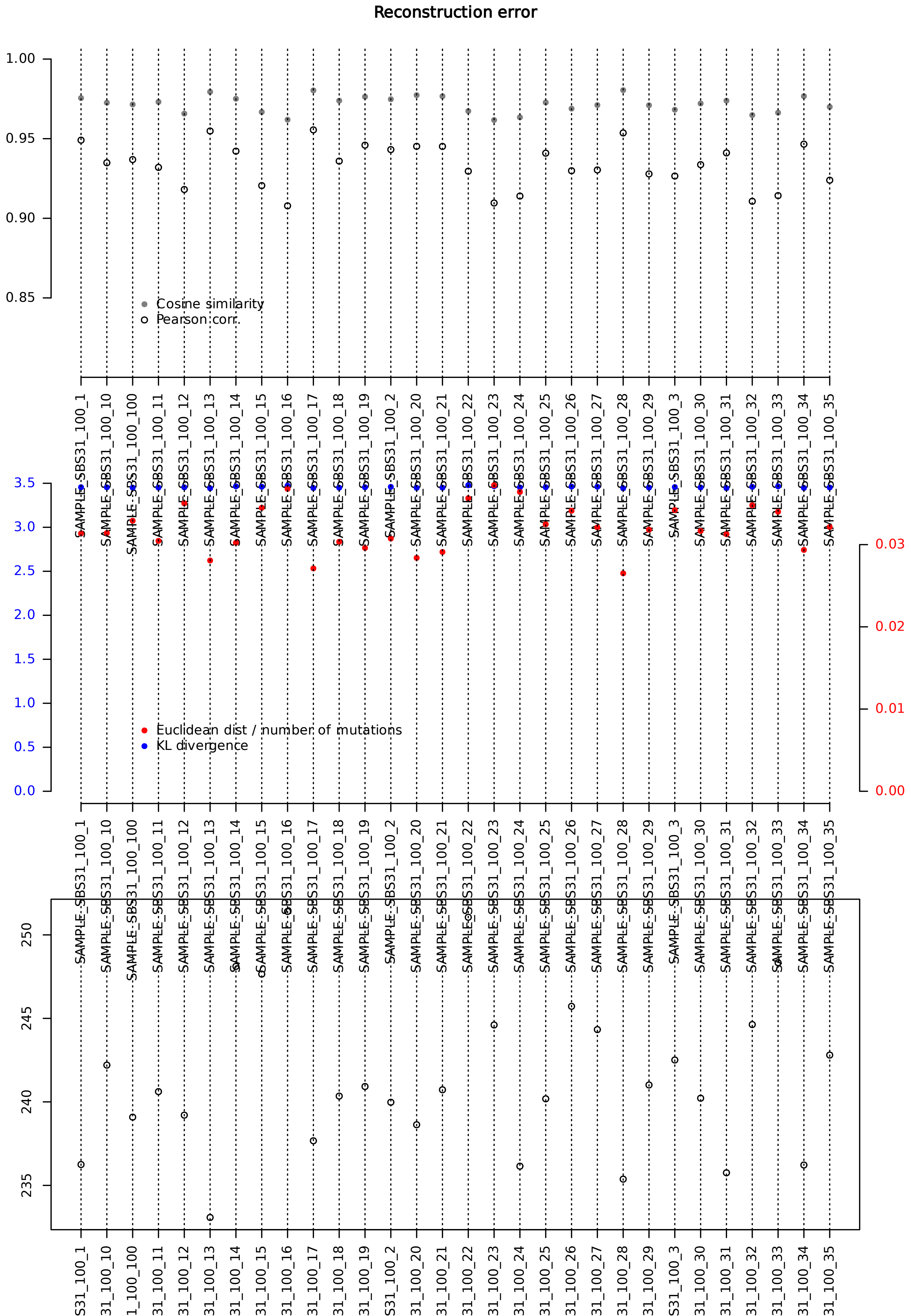

Reconstruction error
1.00
0.95
0.90
0.85
0.80
● Cosine similarity
○ Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
● Euclidean dist / number of mutations
● KL divergence
245
240
235
SAMPLE-SBS31_45_54
SAMPLE-SBS31_45_55
SAMPLE-SBS31_45_56
SAMPLE-SBS31_45_57
SAMPLE-SBS31_45_58
SAMPLE-SBS31_45_59
SAMPLE-SBS31_45_6
SAMPLE-SBS31_45_60
SAMPLE-SBS31_45_61
SAMPLE-SBS31_45_62
SAMPLE-SBS31_45_63
SAMPLE-SBS31_45_64
SAMPLE-SBS31_45_65
SAMPLE-SBS31_45_66
SAMPLE-SBS31_45_67
SAMPLE-SBS31_45_68
SAMPLE-SBS31_45_69
SAMPLE-SBS31_45_7
SAMPLE-SBS31_45_70
SAMPLE-SBS31_45_71
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


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
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
250
245
240
235
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
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


Reconstruction error
1.00
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
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
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
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
250
245
240
235


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
250
245
240
235
230
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
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


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
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
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
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
245
240
235
BS31_0_72
BS31_0_73
BS31_0_74
BS31_0_75
BS31_0_76
BS31_0_77
BS31_0_78
BS31_0_79
SBS31_0_8
BS31_0_80
BS31_0_81
BS31_0_82
BS31_0_83
BS31_0_84
BS31_0_85
BS31_0_86
BS31_0_87
BS31_0_88
BS31_0_89
SBS31_0_9
BS31_0_90
BS31_0_91
BS31_0_92
BS31_0_93
BS31_0_94
BS31_0_95
BS31_0_96
BS31_0_97
BS31_0_98
BS31_0_99


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
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
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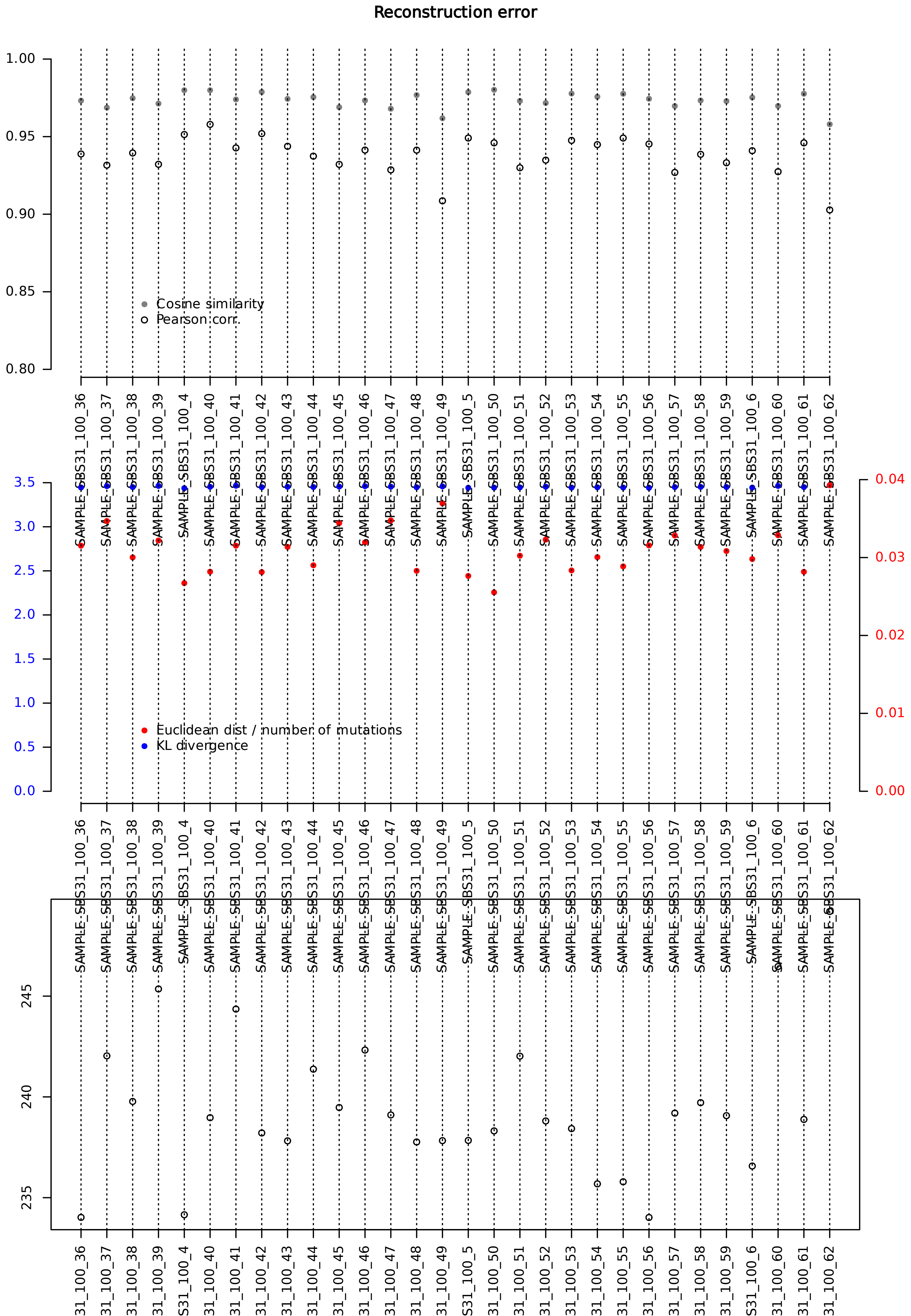
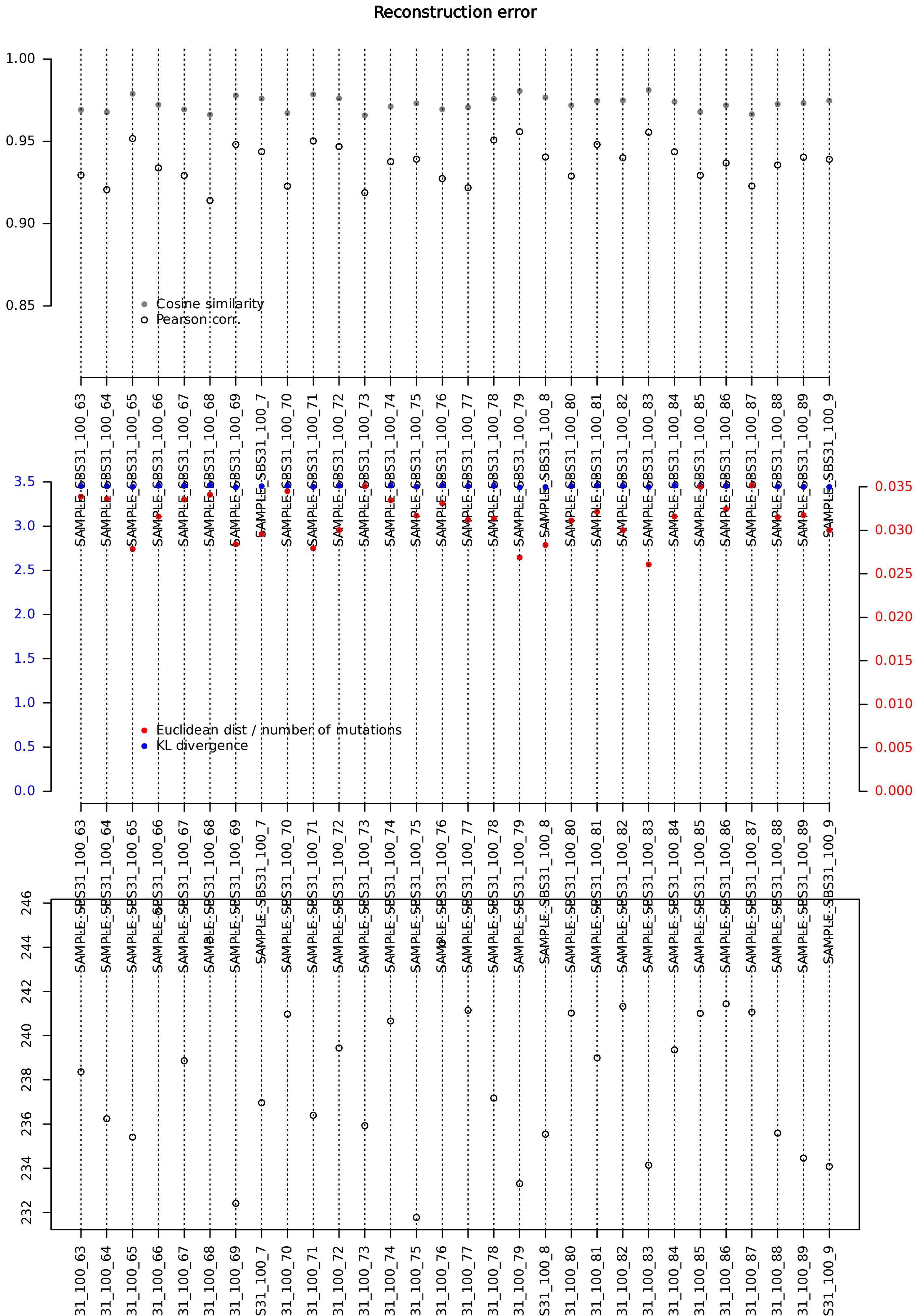
SAMPLE-SBS31_100_26
SAMPLE-SBS31_100_27
SAMPLE-SBS31_100_28
SAMPLE-SBS31_100_29
SAMPLE-SBS31_100_3
SAMPLE-SBS31_100_30
SAMPLE-SBS31_100_31
SAMPLE-SBS31_100_32
SAMPLE-SBS31_100_33
SAMPLE-SBS31_100_34
SAMPLE-SBS31_100_35
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
250
245
240
235


Reconstruction error
1.00
0.95
0.90
0.85
0.80
● Cosine similarity
○ Pearson corr.
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
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
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


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
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
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
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
Euclidean dist / number of mutations
KL divergence
246
244
242
240
238
236
234
232
31_100_63
31_100_64
31_100_65
31_100_66
31_100_67
31_100_68
31_100_69
S31_100_7
31_100_70
31_100_71
31_100_72
31_100_73
31_100_74
31_100_75
31_100_76
31_100_77
31_100_78
31_100_79
S31_100_8
31_100_80
31_100_81
31_100_82
31_100_83
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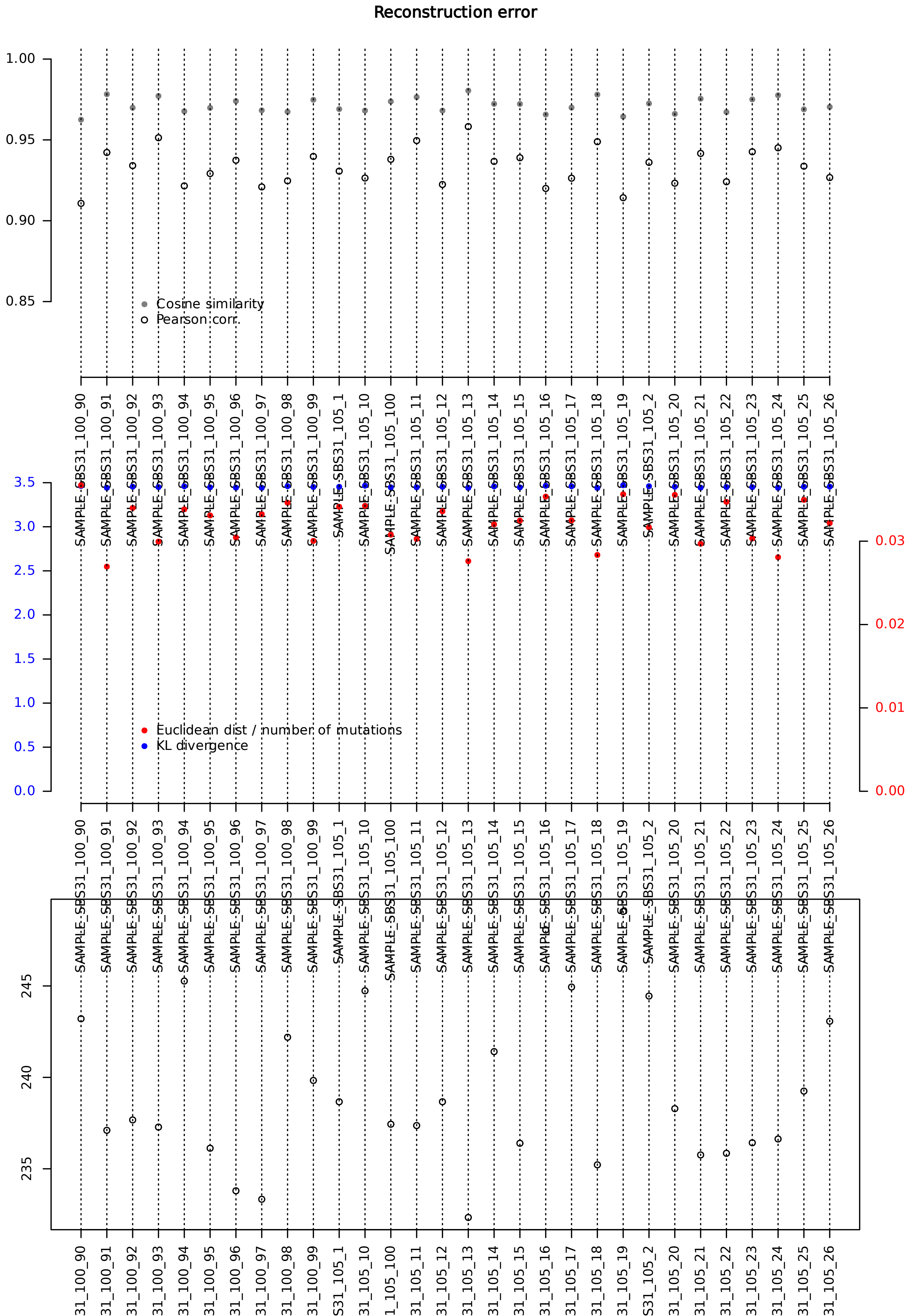
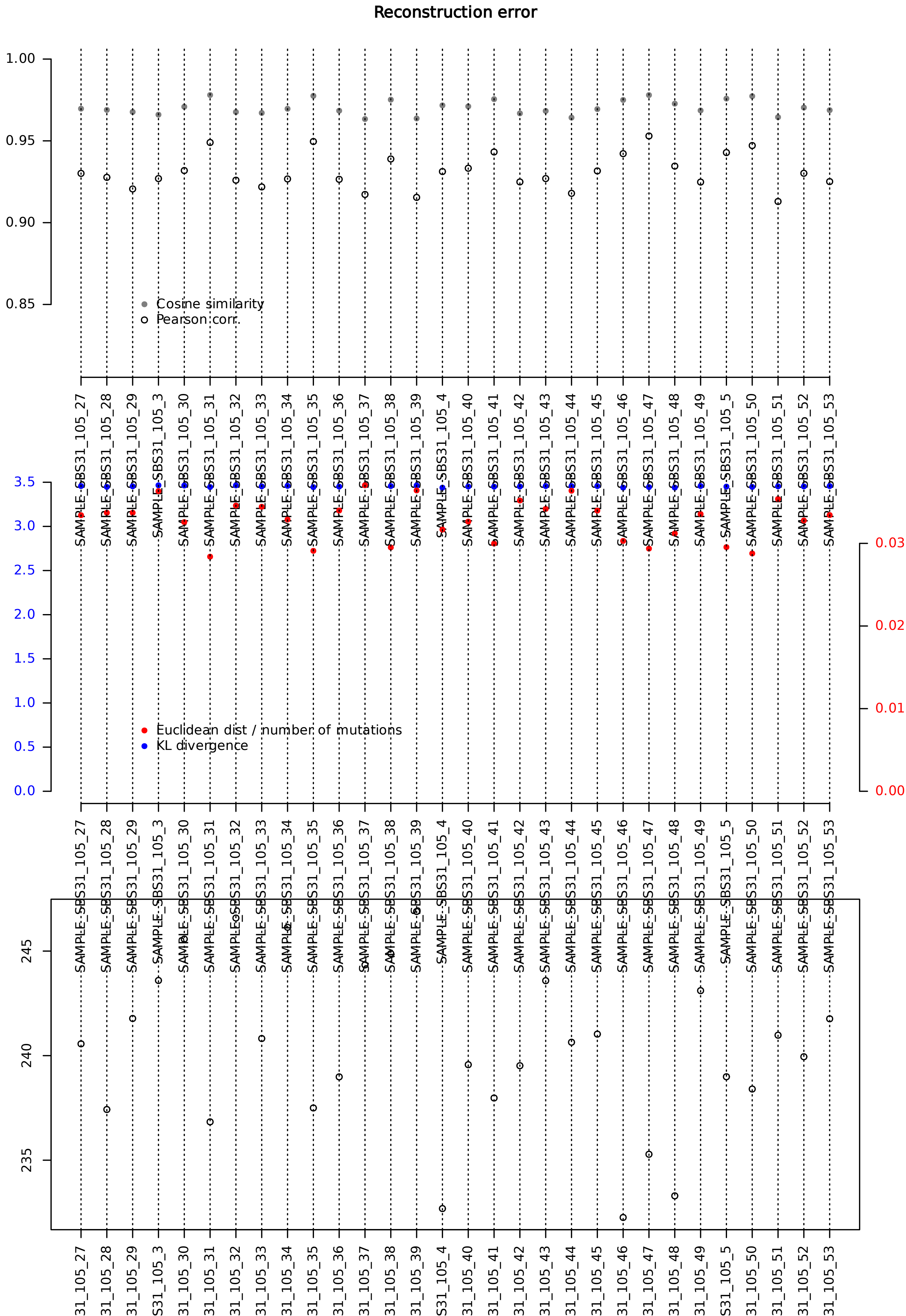
31_100_85
31_100_86
31_100_87
31_100_88
31_100_89
S31_100_9


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
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
245
240
235
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
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


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
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
SAMPLE-SBS31_105_45
SAMPLE-SBS31_105_46
SAMPLE-SBS31_105_47
SAMPLE-SBS31_105_48
SAMPLE-SBS31_105_49
SAMPLE-SBS31_105_5
SAMPLE-SBS31_105_50
SAMPLE-SBS31_105_51
SAMPLE-SBS31_105_52
SAMPLE-SBS31_105_53
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
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
SAMPLE-SBS31_105_45
SAMPLE-SBS31_105_46
SAMPLE-SBS31_105_47
SAMPLE-SBS31_105_48
SAMPLE-SBS31_105_49
SAMPLE-SBS31_105_5
SAMPLE-SBS31_105_50
SAMPLE-SBS31_105_51
SAMPLE-SBS31_105_52
SAMPLE-SBS31_105_53
245
240
235
31_105_27
31_105_28
31_105_29
S31_105_3
31_105_30
31_105_31
31_105_32
31_105_33
31_105_34
31_105_35
31_105_36
31_105_37
31_105_38
31_105_39
S31_105_4
31_105_40
31_105_41
31_105_42
31_105_43
31_105_44
31_105_45
31_105_46
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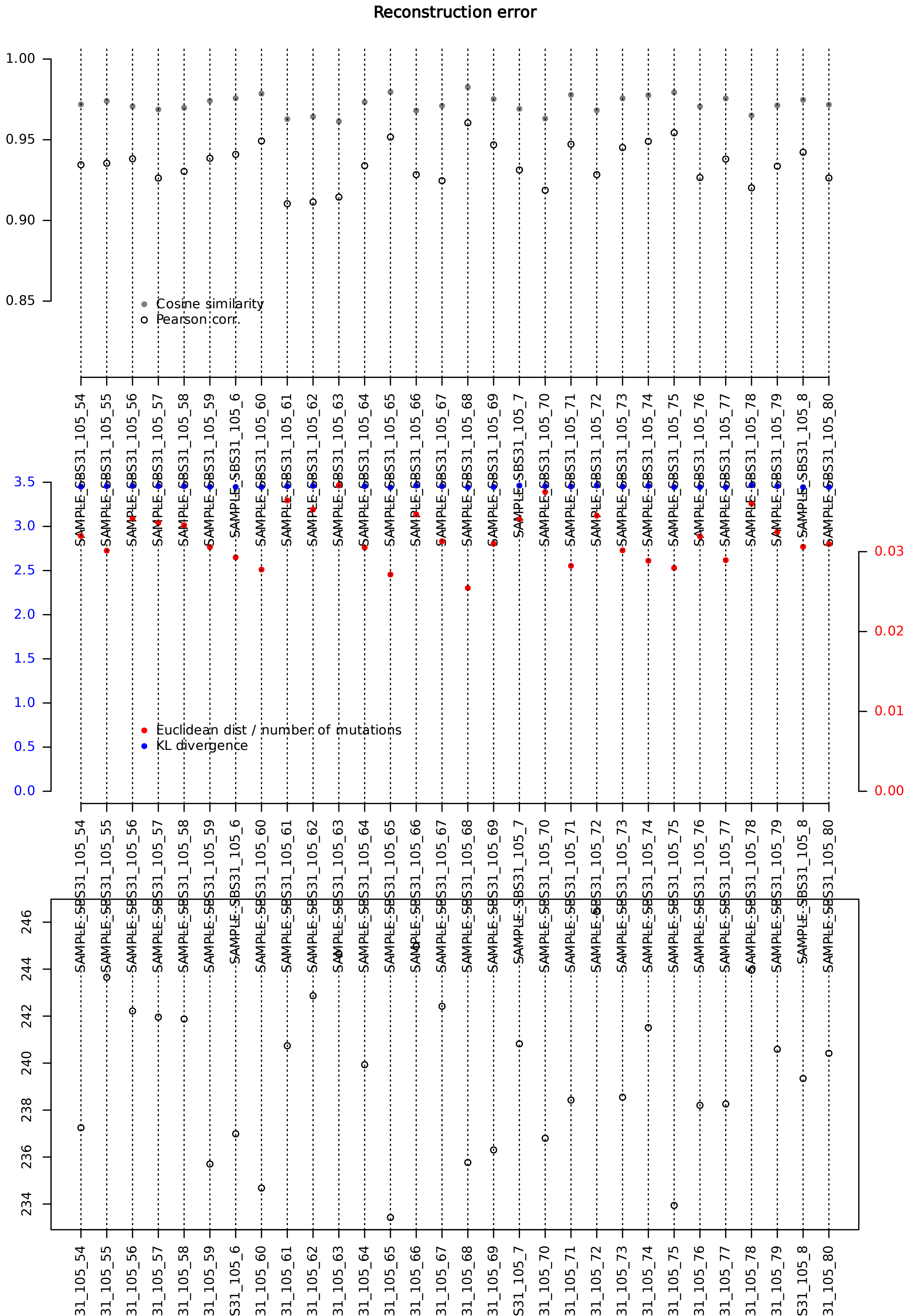
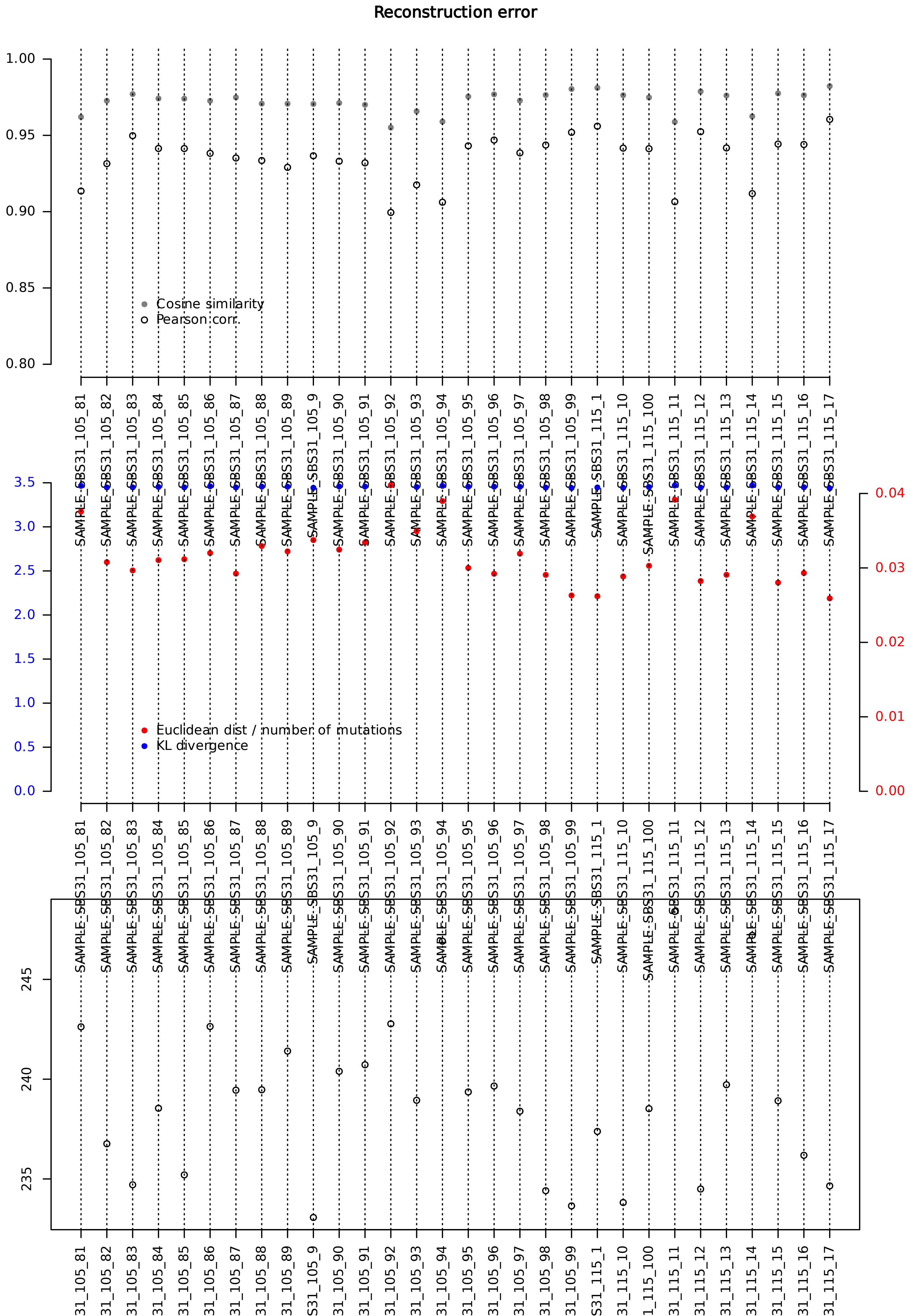
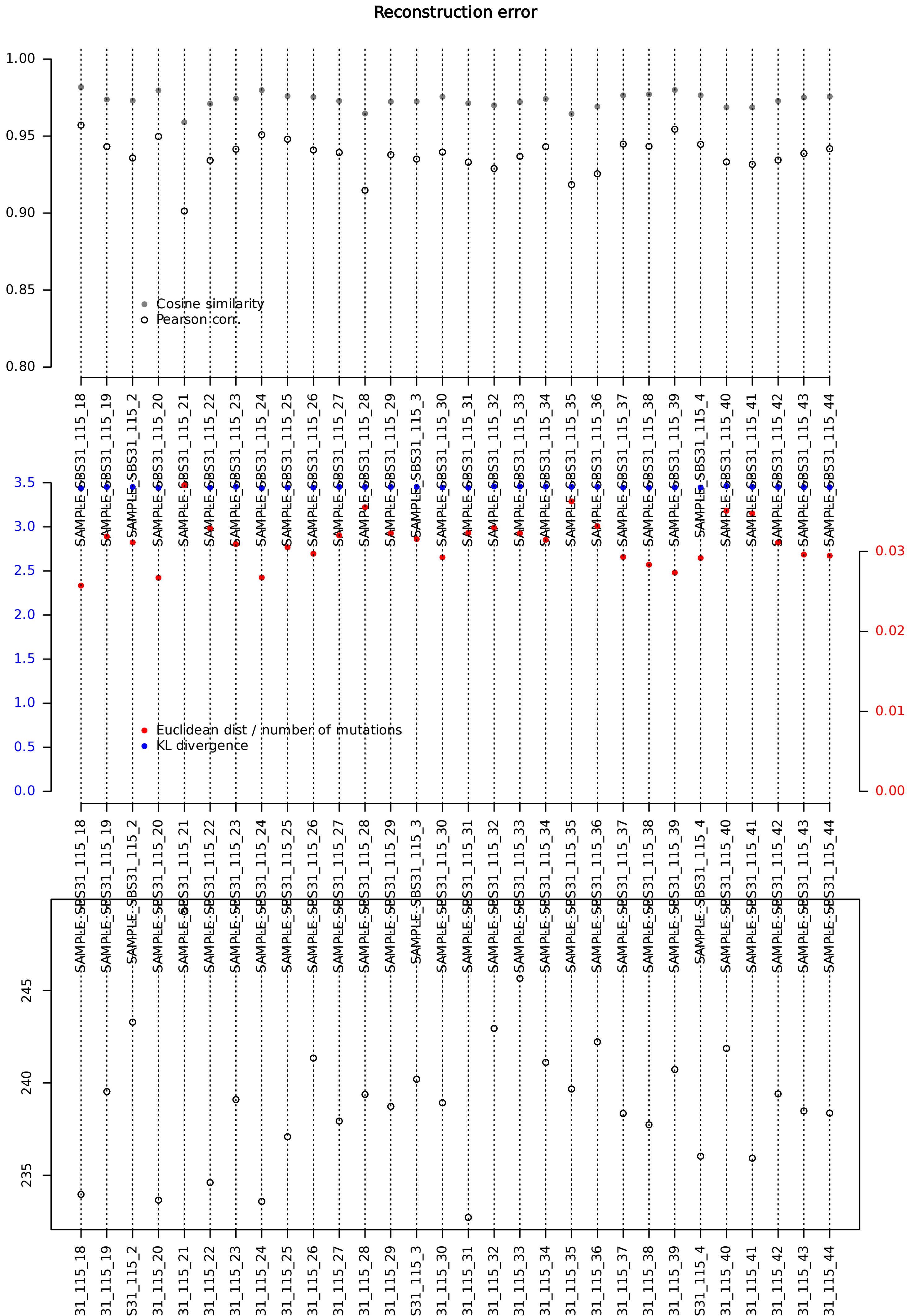
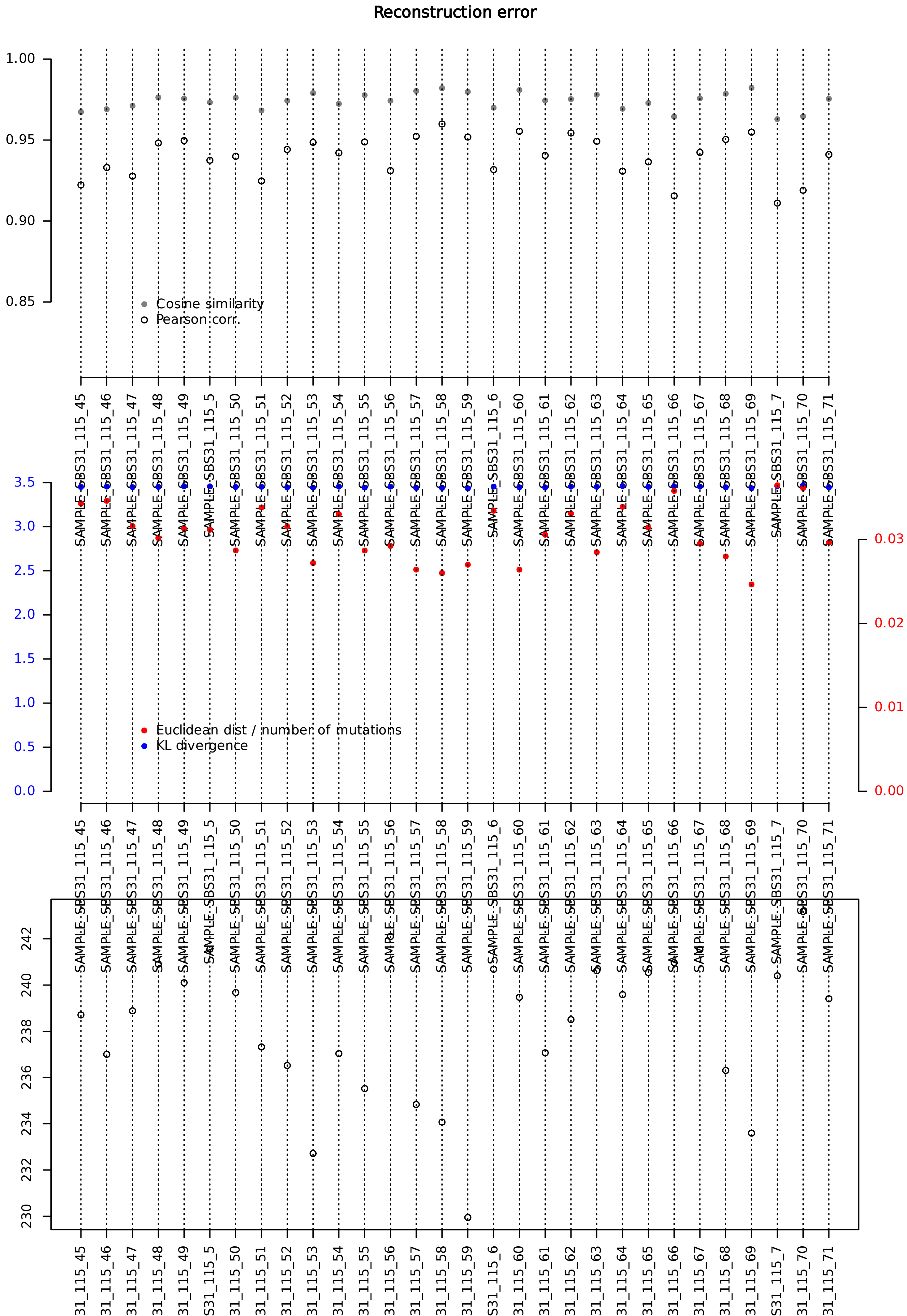
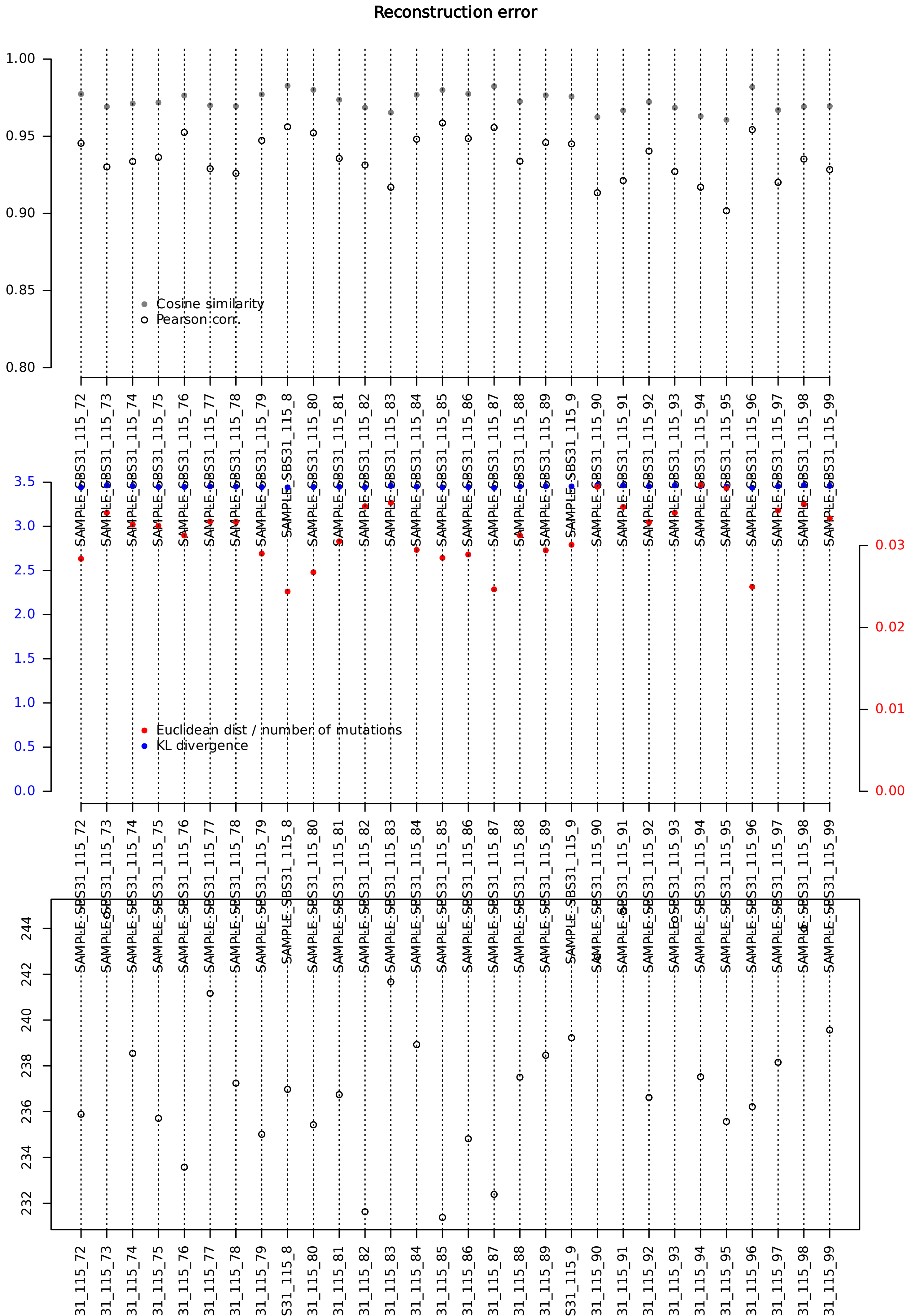
31_105_48
31_105_49
S31_105_5
31_105_50
31_105_51
31_105_52
31_105_53


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
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
246
244
242
240
238
236
234
SAMPLE-SBS31_105_54
SAMPLE-SBS31_105_55
SAMPLE-SBS31_105_56
SAMPLE-SBS31_105_57
SAMPLE-SBS31_105_58
SAMPLE-SBS31_105_59
SAMPLE-SBS31_105_6
SAMPLE-SBS31_105_60
SAMPLE-SBS31_105_61
SAMPLE-SBS31_105_62
SAMPLE-SBS31_105_63
SAMPLE-SBS31_105_64
SAMPLE-SBS31_105_65
SAMPLE-SBS31_105_66
SAMPLE-SBS31_105_67
SAMPLE-SBS31_105_68
SAMPLE-SBS31_105_69
SAMPLE-SBS31_105_7
SAMPLE-SBS31_105_70
SAMPLE-SBS31_105_71
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


Reconstruction error
1.00
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
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
SAMPLE-SBS31_115_1
SAMPLE-SBS31_115_10
SAMPLE-SBS31_115_100
SAMPLE-SBS31_115_11
SAMPLE-SBS31_115_12
SAMPLE-SBS31_115_13
SAMPLE-SBS31_115_14
SAMPLE-SBS31_115_15
SAMPLE-SBS31_115_16
SAMPLE-SBS31_115_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
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
SAMPLE-SBS31_115_1
SAMPLE-SBS31_115_10
SAMPLE-SBS31_115_100
SAMPLE-SBS31_115_11
SAMPLE-SBS31_115_12
SAMPLE-SBS31_115_13
SAMPLE-SBS31_115_14
SAMPLE-SBS31_115_15
SAMPLE-SBS31_115_16
SAMPLE-SBS31_115_17
245
240
235
31_105_81
31_105_82
31_105_83
31_105_84
31_105_85
31_105_86
31_105_87
31_105_88
31_105_89
S31_105_9
31_105_90
31_105_91
31_105_92
31_105_93
31_105_94
31_105_95
31_105_96
31_105_97
31_105_98
31_105_99
S31_115_1
31_115_10
1_115_100
31_115_11
31_115_12
31_115_13
31_115_14
31_115_15
31_115_16
31_115_17


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
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
242
240
238
236
234
232
230
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


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
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
244
242
240
238
236
234
232
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
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SAMPLE-SBS31_115_96
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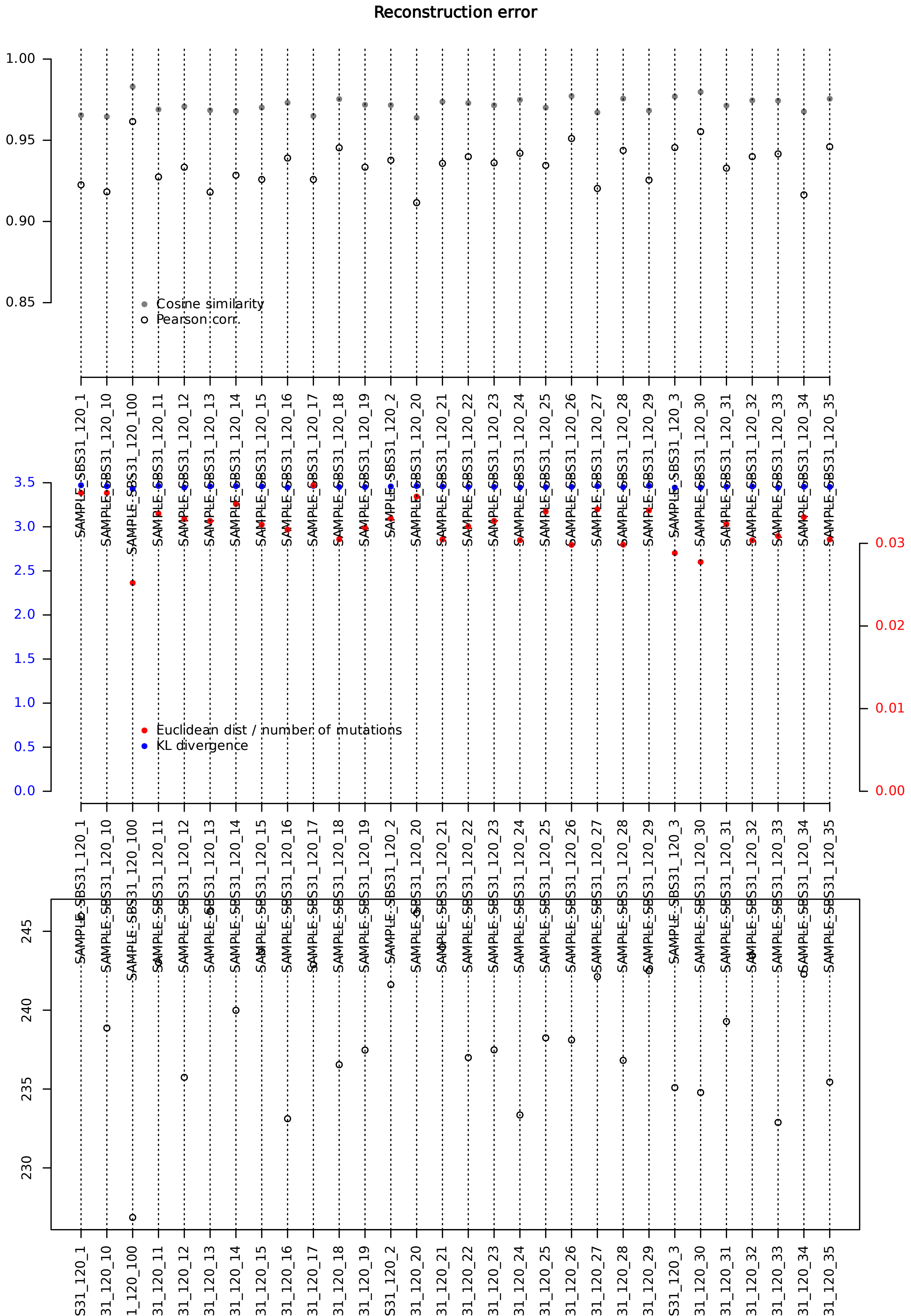
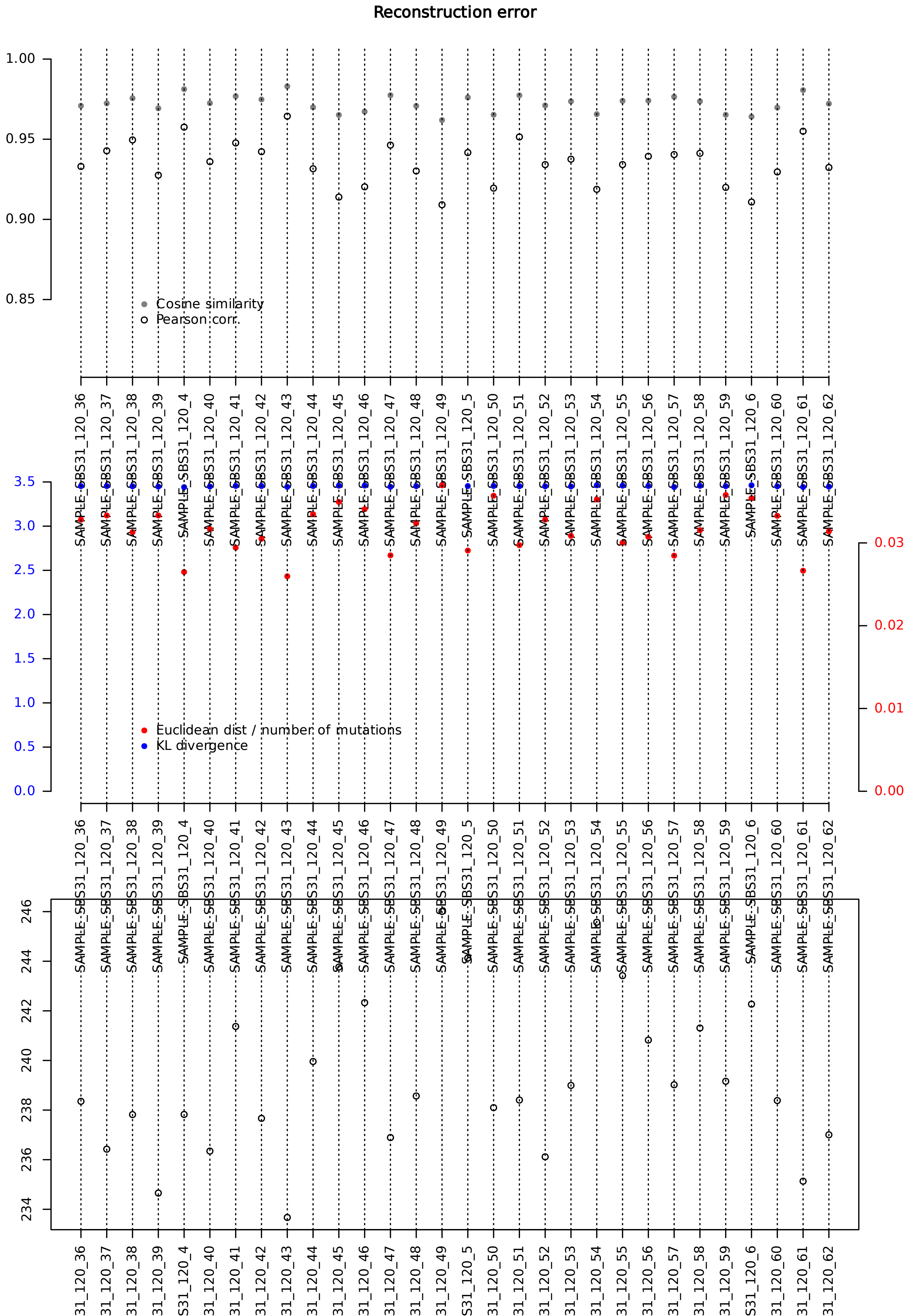
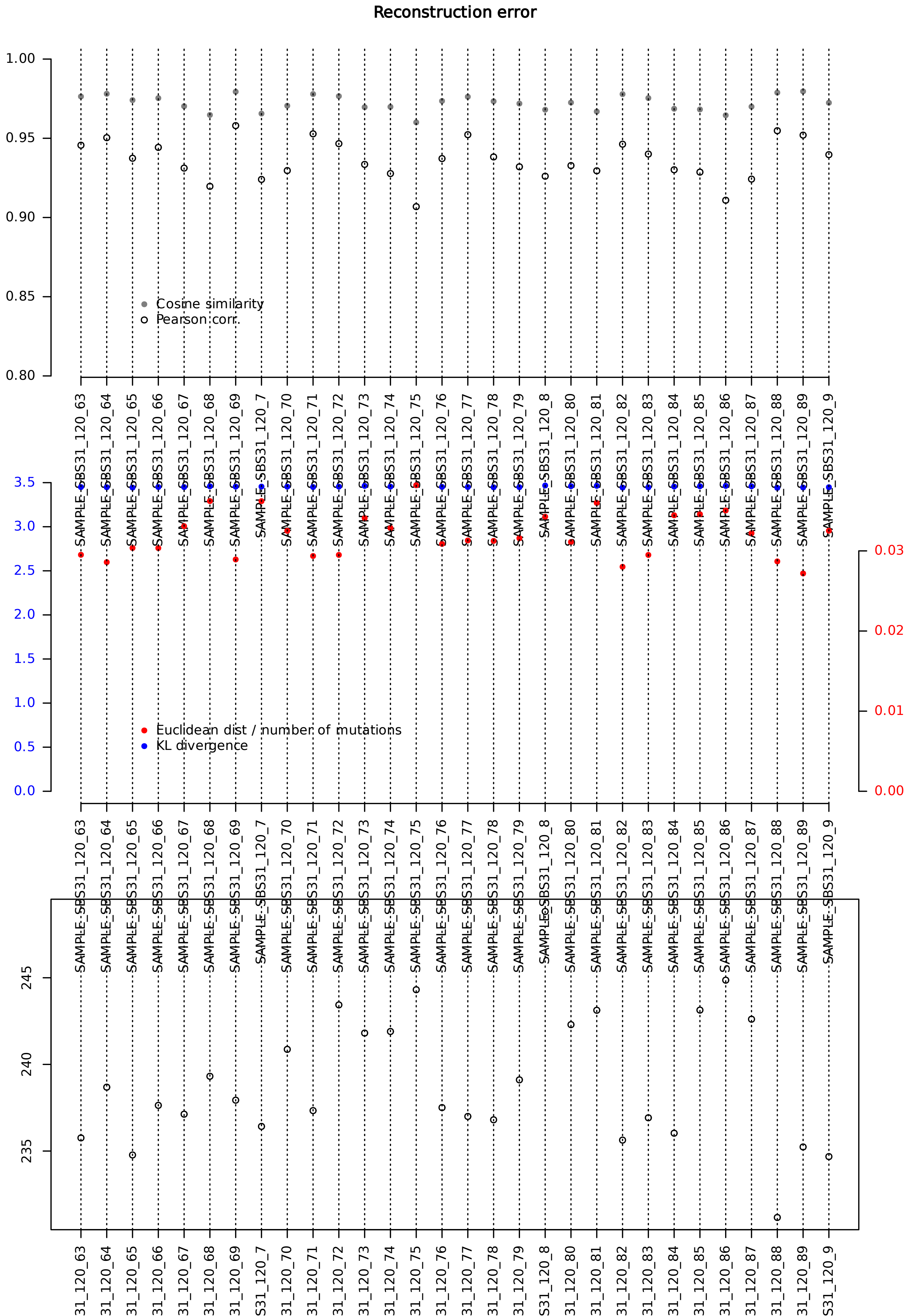
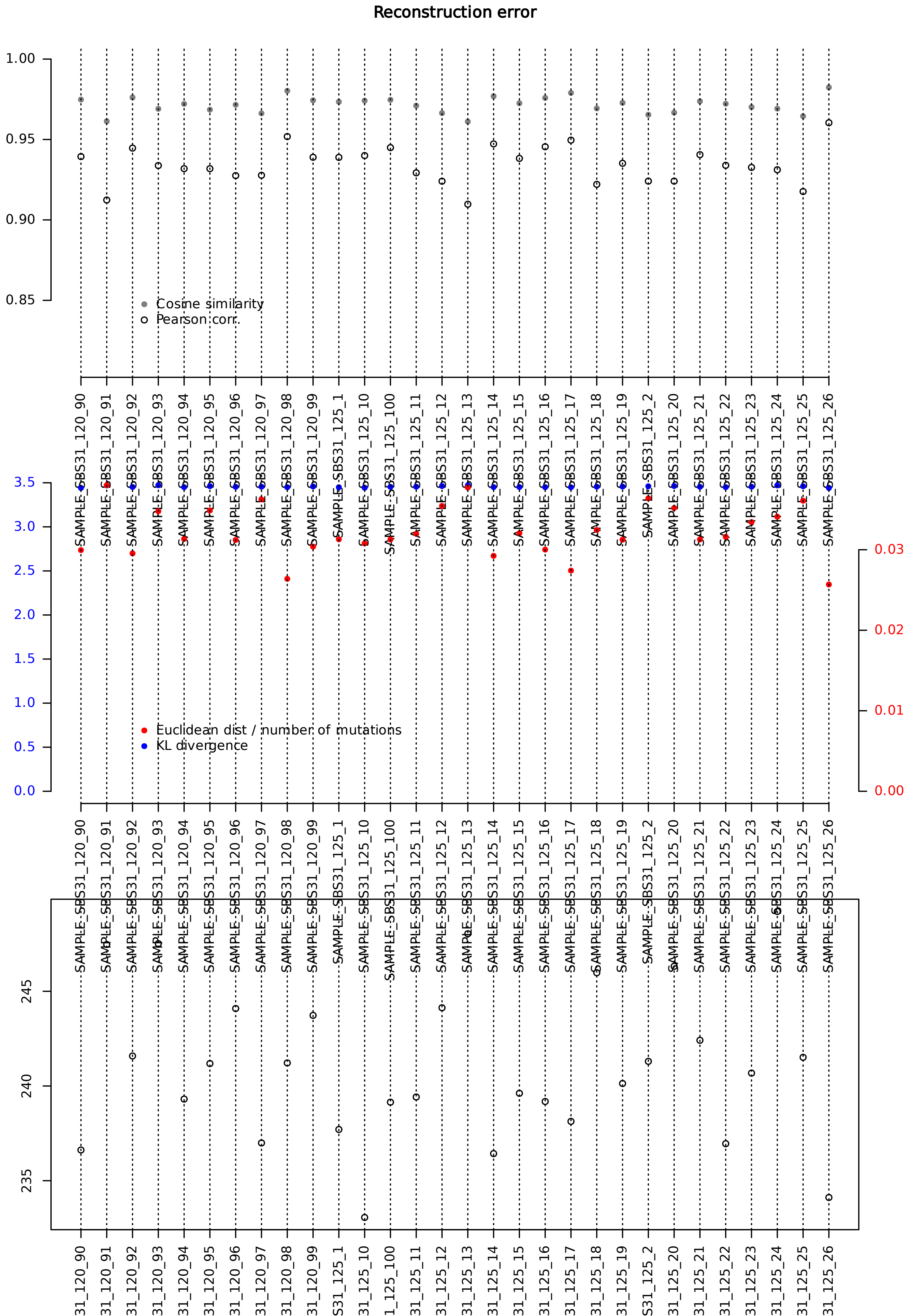
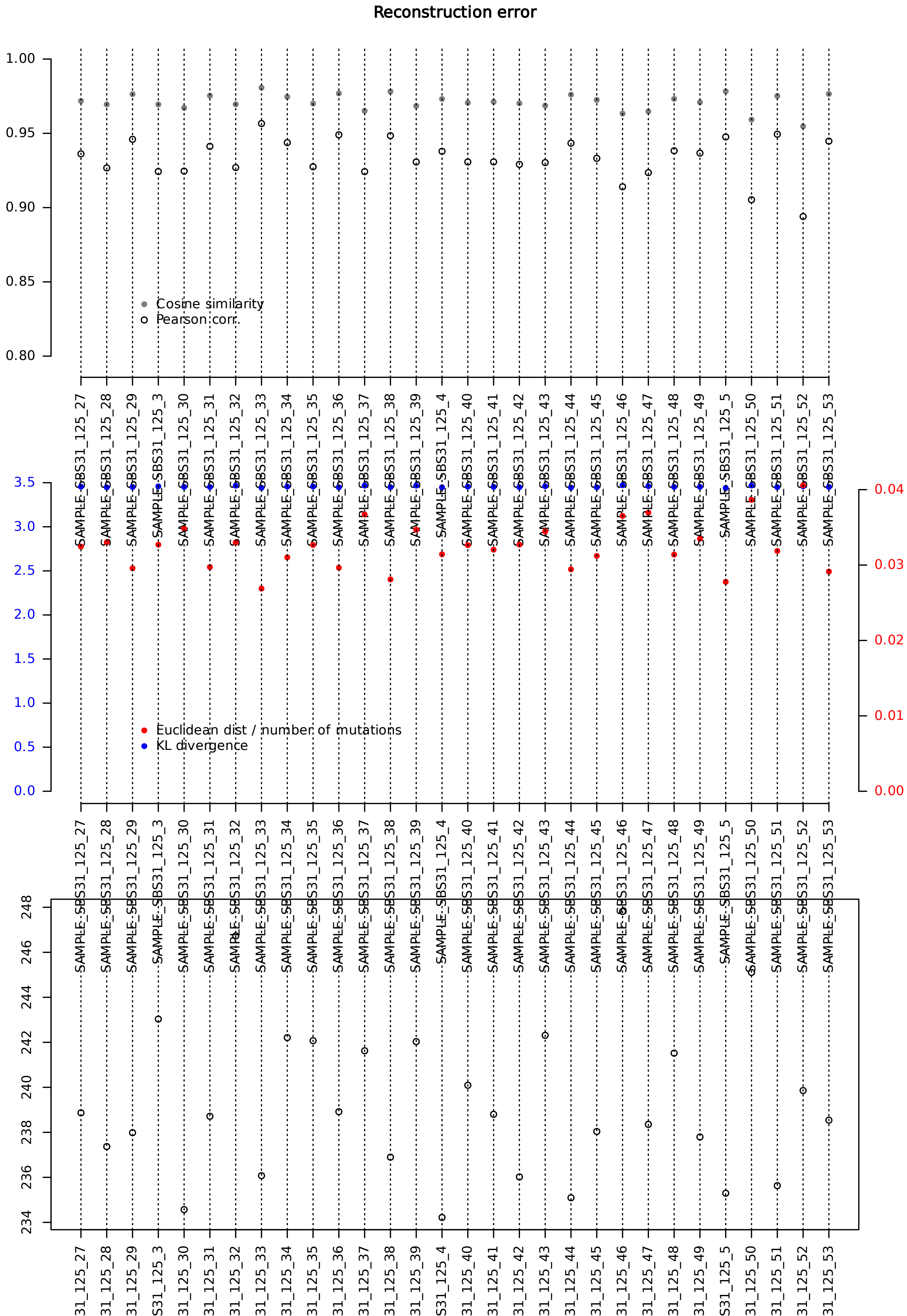
SAMPLE-SBS31_115_98
SAMPLE-SBS31_115_99

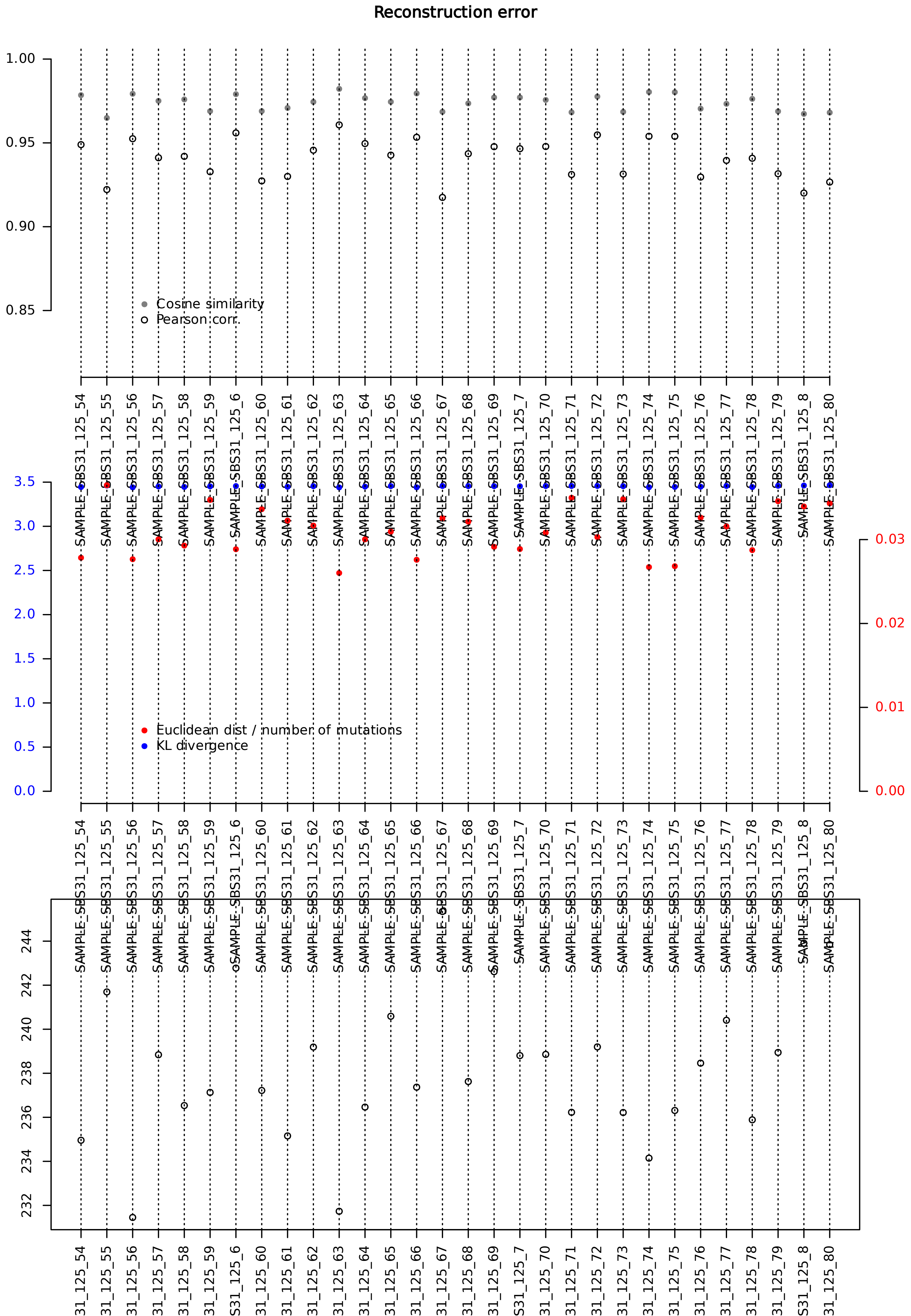

Reconstruction error
1.00
0.95
0.90
0.85
● Cosine similarity
○ Pearson corr.
SAMPLE-SBS31_120_1
SAMPLE-SBS31_120_10
SAMPLE-SBS31_120_100
SAMPLE-SBS31_120_11
SAMPLE-SBS31_120_12
SAMPLE-SBS31_120_13
SAMPLE-SBS31_120_14
SAMPLE-SBS31_120_15
SAMPLE-SBS31_120_16
SAMPLE-SBS31_120_17
SAMPLE-SBS31_120_18
SAMPLE-SBS31_120_19
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
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.03
0.02
0.01
0.00
● Euclidean dist / number of mutations
● KL divergence
245
240
235
230


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
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
246
244
242
240
238
236
234
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

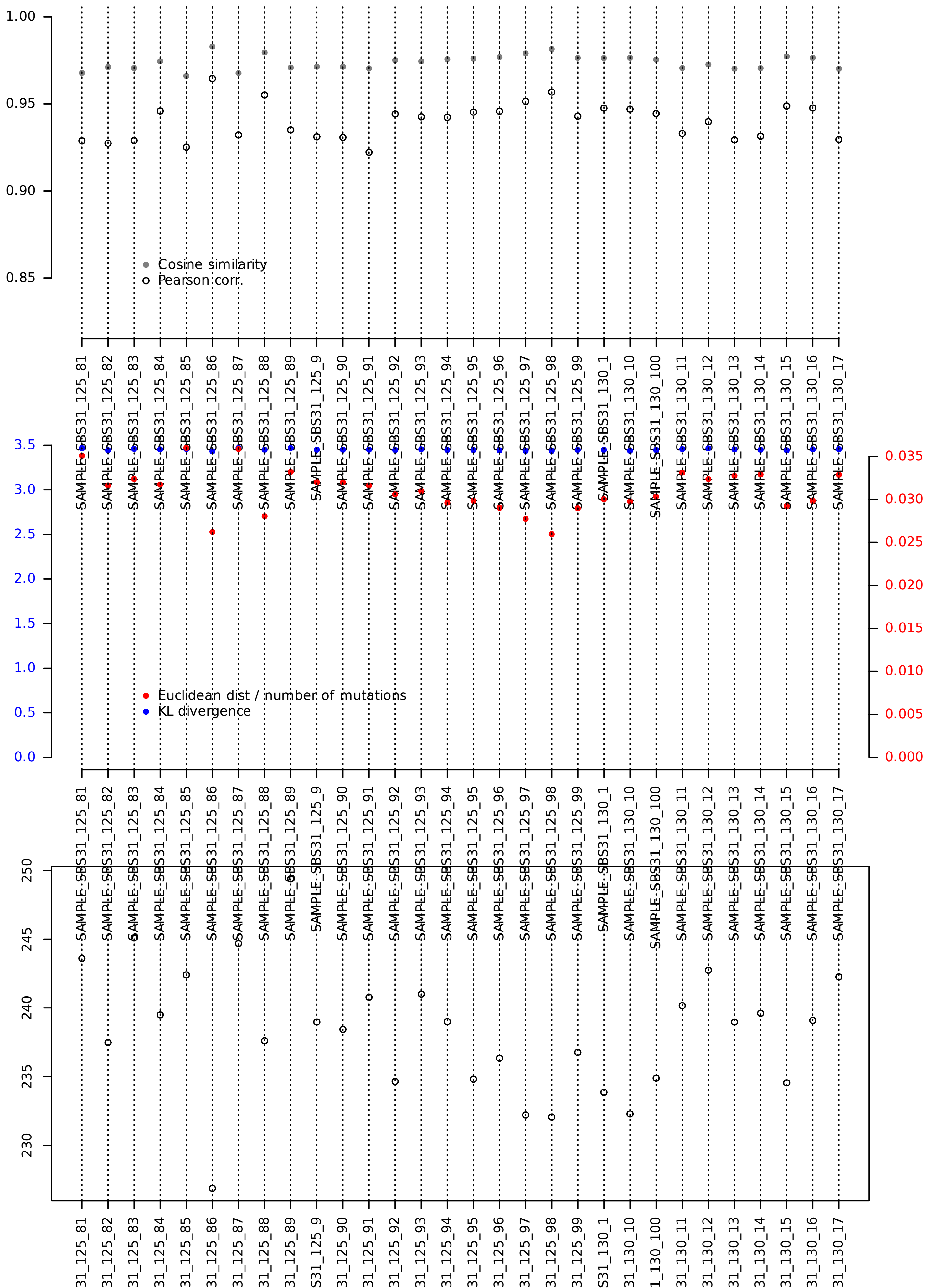

Reconstruction error
1.00
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
245
240
235
SAMPLE-SBS31_120_63
SAMPLE-SBS31_120_64
SAMPLE-SBS31_120_65
SAMPLE-SBS31_120_66
SAMPLE-SBS31_120_67
SAMPLE-SBS31_120_68
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

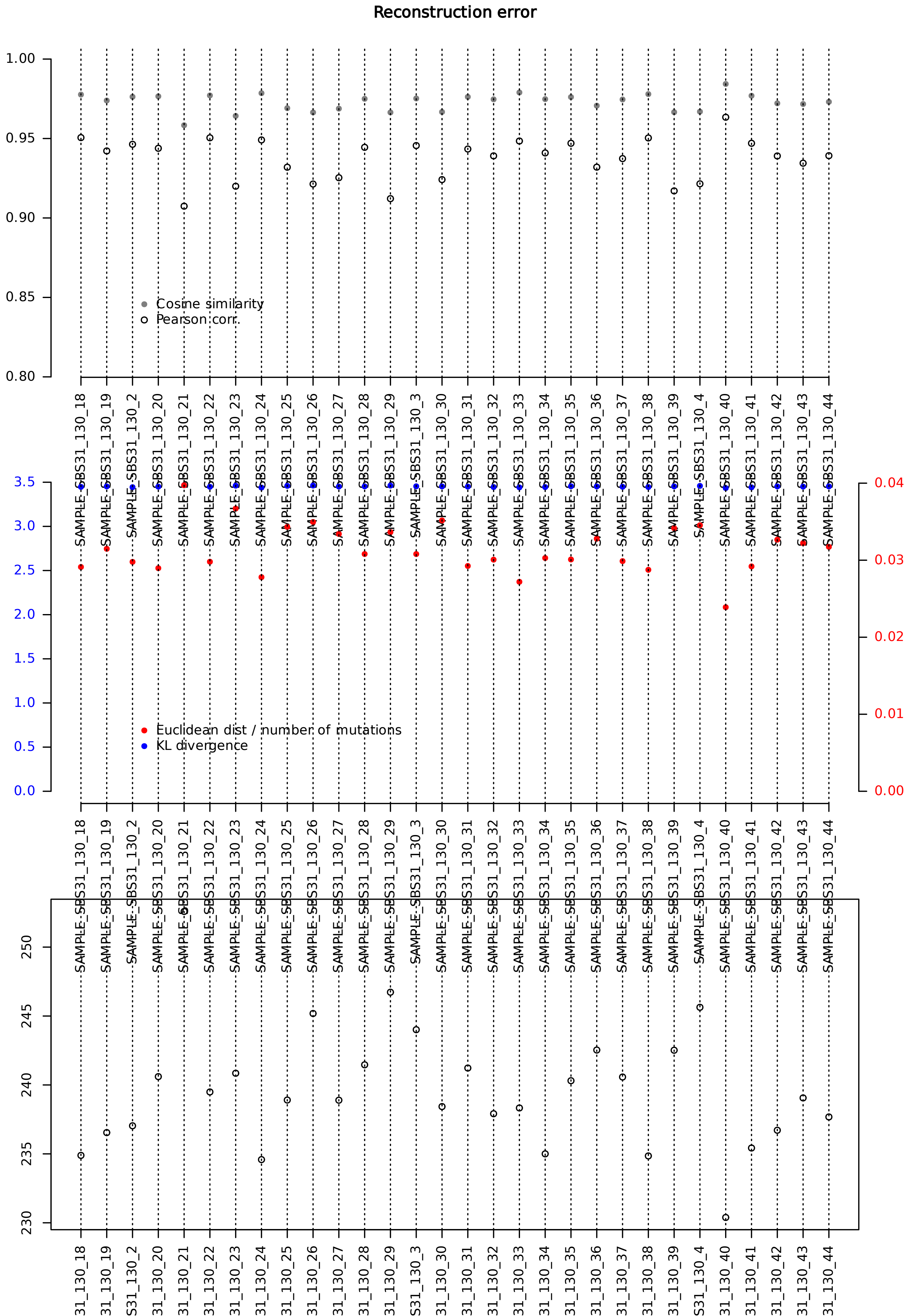

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
245
240
235
SAMPLE-SBS31_120_90
SAMPLE-SBS31_120_91
SAMPLE-SBS31_120_92
SAMPLE-SBS31_120_93
SAMPLE-SBS31_120_94
SAMPLE-SBS31_120_95
SAMPLE-SBS31_120_96
SAMPLE-SBS31_120_97
SAMPLE-SBS31_120_98
SAMPLE-SBS31_120_99
SAMPLE-SBS31_125_1
SAMPLE-SBS31_125_10
SAMPLE-SBS31_125_100
SAMPLE-SBS31_125_11
SAMPLE-SBS31_125_12
SAMPLE-SBS31_125_13
SAMPLE-SBS31_125_14
SAMPLE-SBS31_125_15
SAMPLE-SBS31_125_16
SAMPLE-SBS31_125_17
SAMPLE-SBS31_125_18
SAMPLE-SBS31_125_19
SAMPLE-SBS31_125_2
SAMPLE-SBS31_125_20
SAMPLE-SBS31_125_21
SAMPLE-SBS31_125_22
SAMPLE-SBS31_125_23
SAMPLE-SBS31_125_24
SAMPLE-SBS31_125_25
SAMPLE-SBS31_125_26

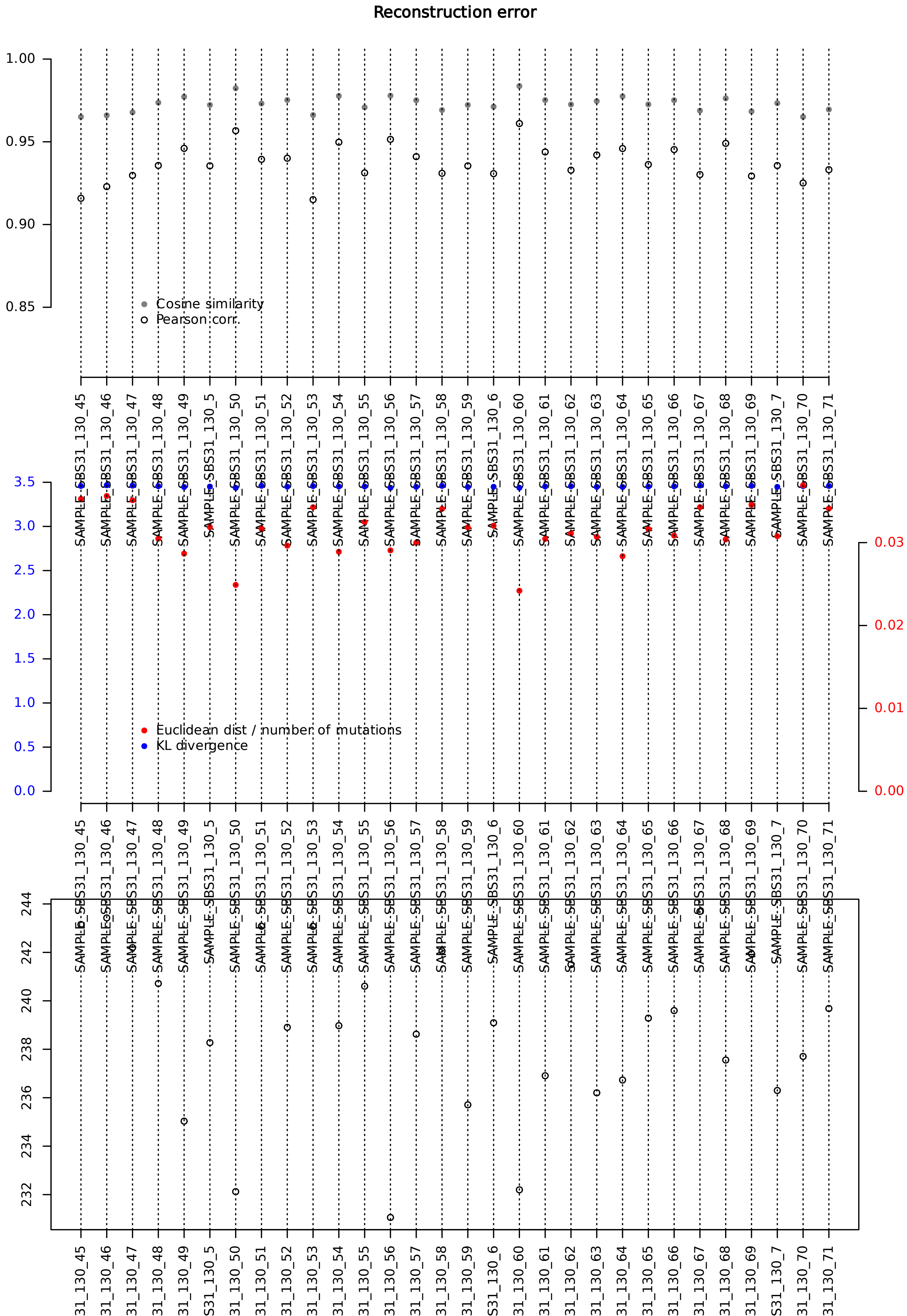

Reconstruction error
1.00
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
248
246
244
242
240
238
236
234
SAMPLE-SBS31_125_27
SAMPLE-SBS31_125_28
SAMPLE-SBS31_125_29
SAMPLE-SBS31_125_3
SAMPLE-SBS31_125_30
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
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
244
242
240
238
236
234
232
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




Reconstruction error
1.00
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
SAMPLE-SBS31_130_18
SAMPLE-SBS31_130_19
SAMPLE-SBS31_130_2
SAMPLE-SBS31_130_20
SAMPLE-SBS31_130_21
SAMPLE-SBS31_130_22
SAMPLE-SBS31_130_23
SAMPLE-SBS31_130_24
SAMPLE-SBS31_130_25
SAMPLE-SBS31_130_26
SAMPLE-SBS31_130_27
SAMPLE-SBS31_130_28
SAMPLE-SBS31_130_29
SAMPLE-SBS31_130_3
SAMPLE-SBS31_130_30
SAMPLE-SBS31_130_31
SAMPLE-SBS31_130_32
SAMPLE-SBS31_130_33
SAMPLE-SBS31_130_34
SAMPLE-SBS31_130_35
SAMPLE-SBS31_130_36
SAMPLE-SBS31_130_37
SAMPLE-SBS31_130_38
SAMPLE-SBS31_130_39
SAMPLE-SBS31_130_4
SAMPLE-SBS31_130_40
SAMPLE-SBS31_130_41
SAMPLE-SBS31_130_42
SAMPLE-SBS31_130_43
SAMPLE-SBS31_130_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
250
245
240
235
230


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
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
244
242
240
238
236
234
232
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
31_130_45
31_130_46
31_130_47
31_130_48
31_130_49
S31_130_5
31_130_50
31_130_51
31_130_52
31_130_53
31_130_54
31_130_55
31_130_56
31_130_57
31_130_58
31_130_59
S31_130_6
31_130_60
31_130_61
31_130_62
31_130_63
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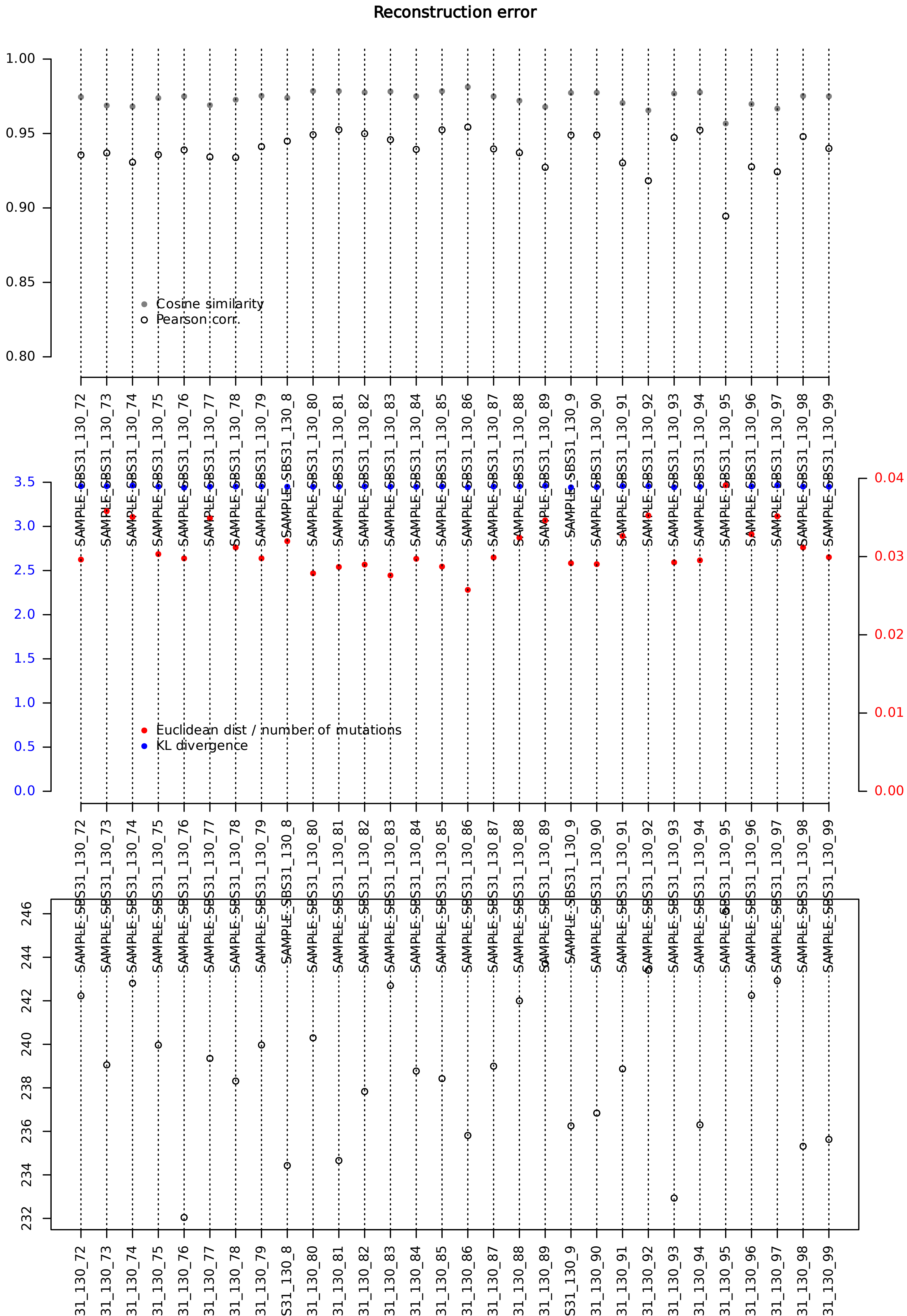
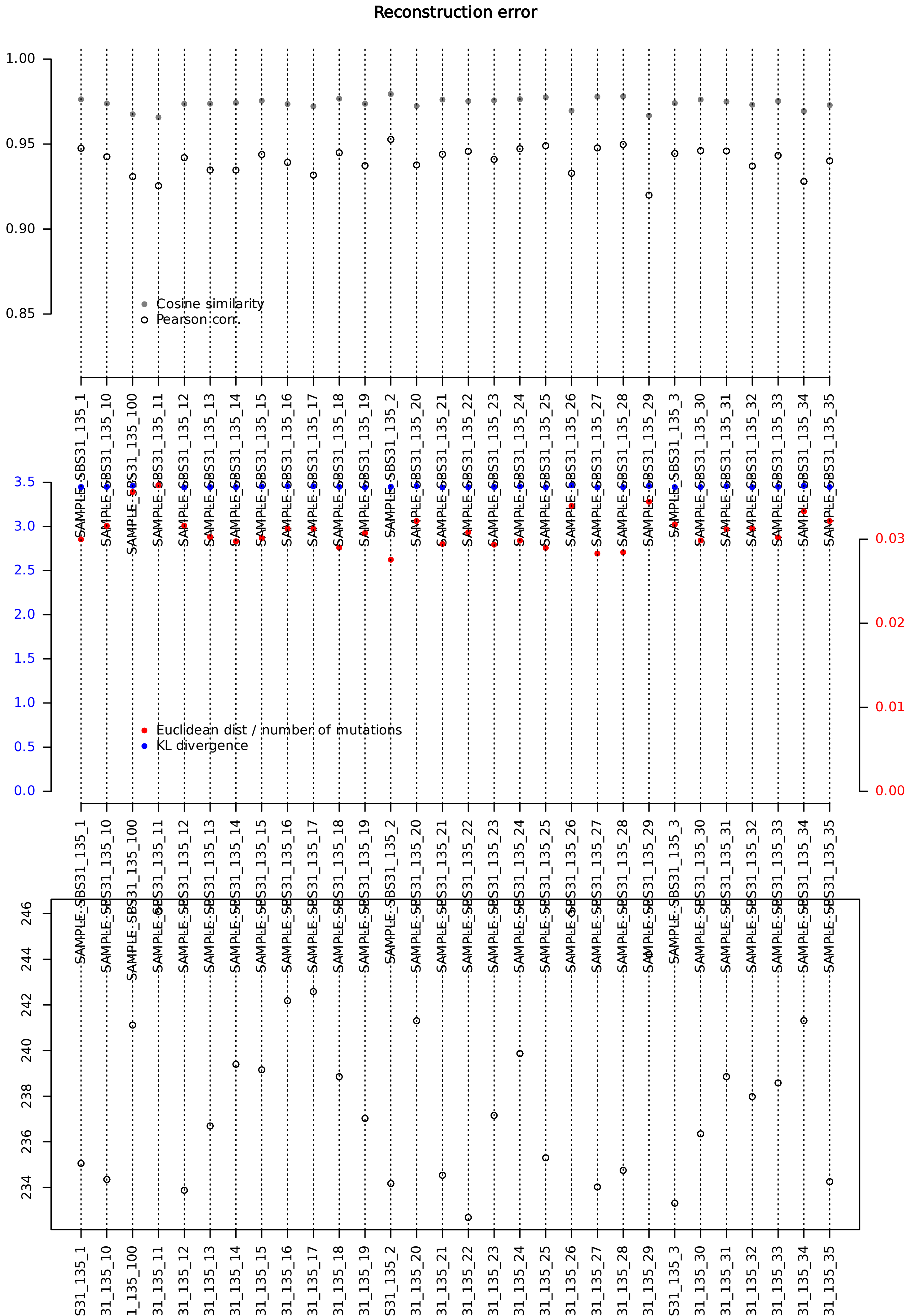
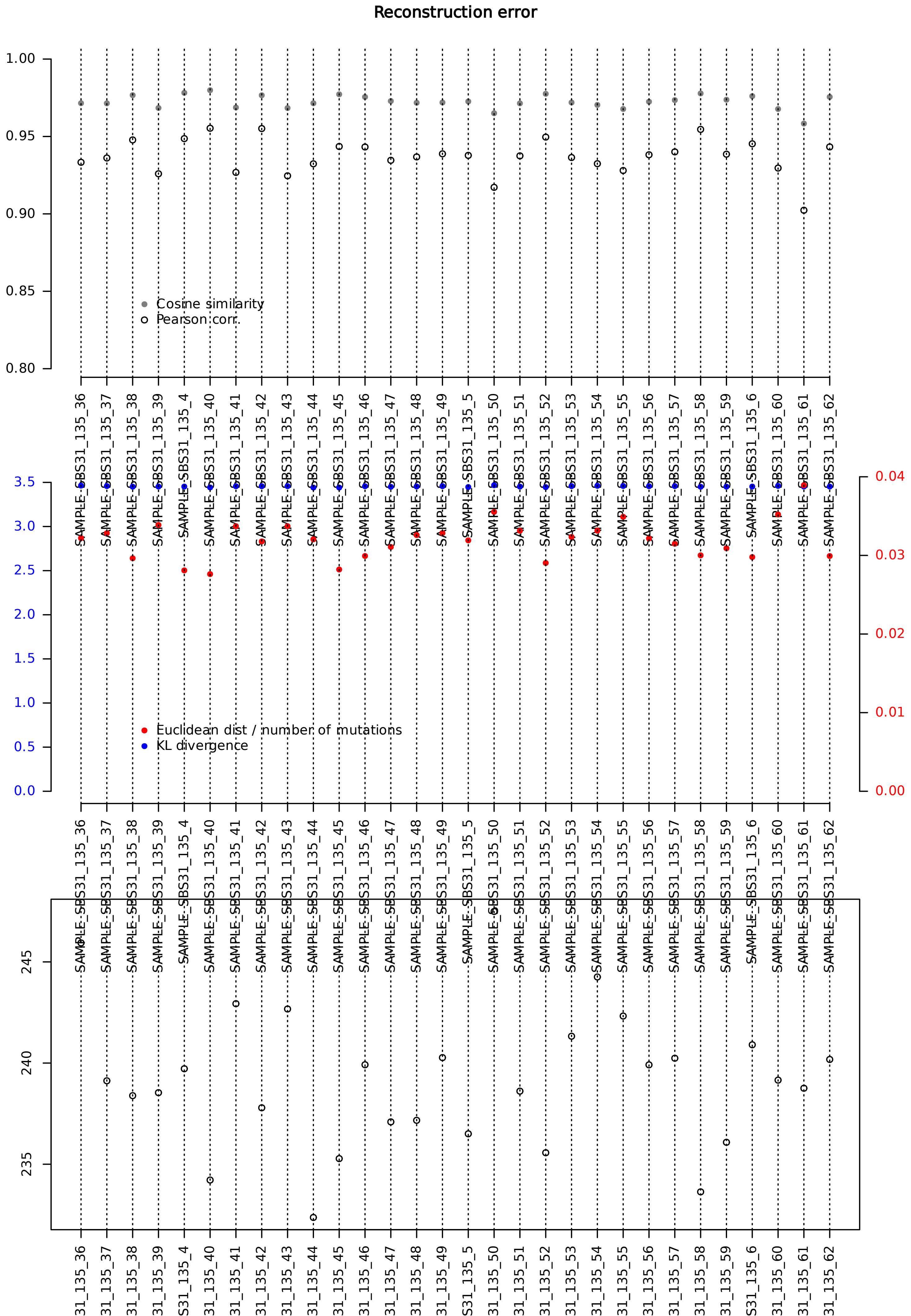
31_130_70
31_130_71


Reconstruction error


Reconstruction error


Reconstruction error
1.00
0.95
0.90
0.85
0.80
● Cosine similarity
○ Pearson corr.
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
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_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
245
240
235
31_135_36
31_135_37
31_135_38
31_135_39
S31_135_4
31_135_40
31_135_41
31_135_42
31_135_43
31_135_44
31_135_45
31_135_46
31_135_47
31_135_48
31_135_49
S31_135_5
31_135_50
31_135_51
31_135_52
31_135_53
31_135_54
31_135_55
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31_135_58
31_135_59
S31_135_6
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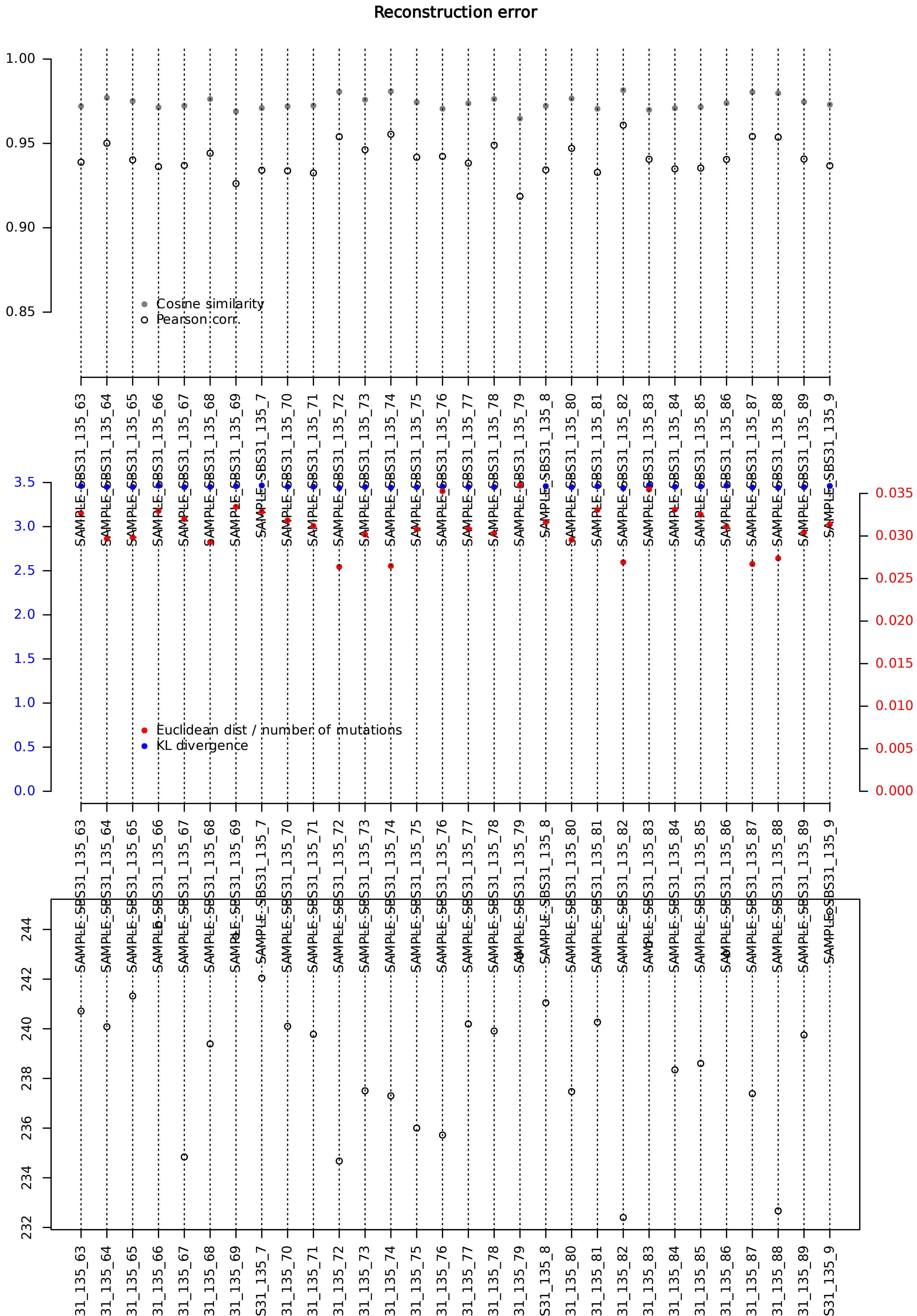
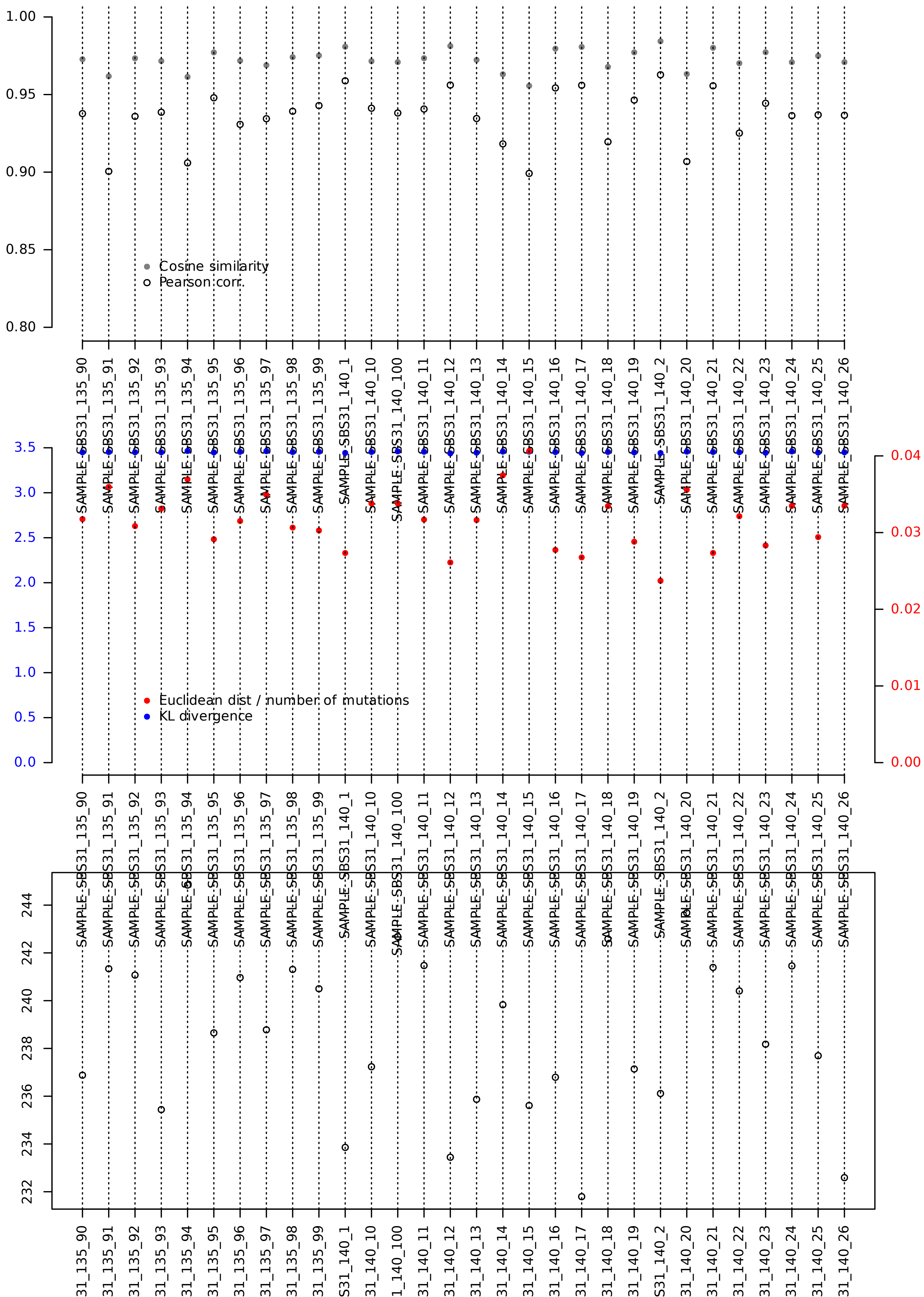
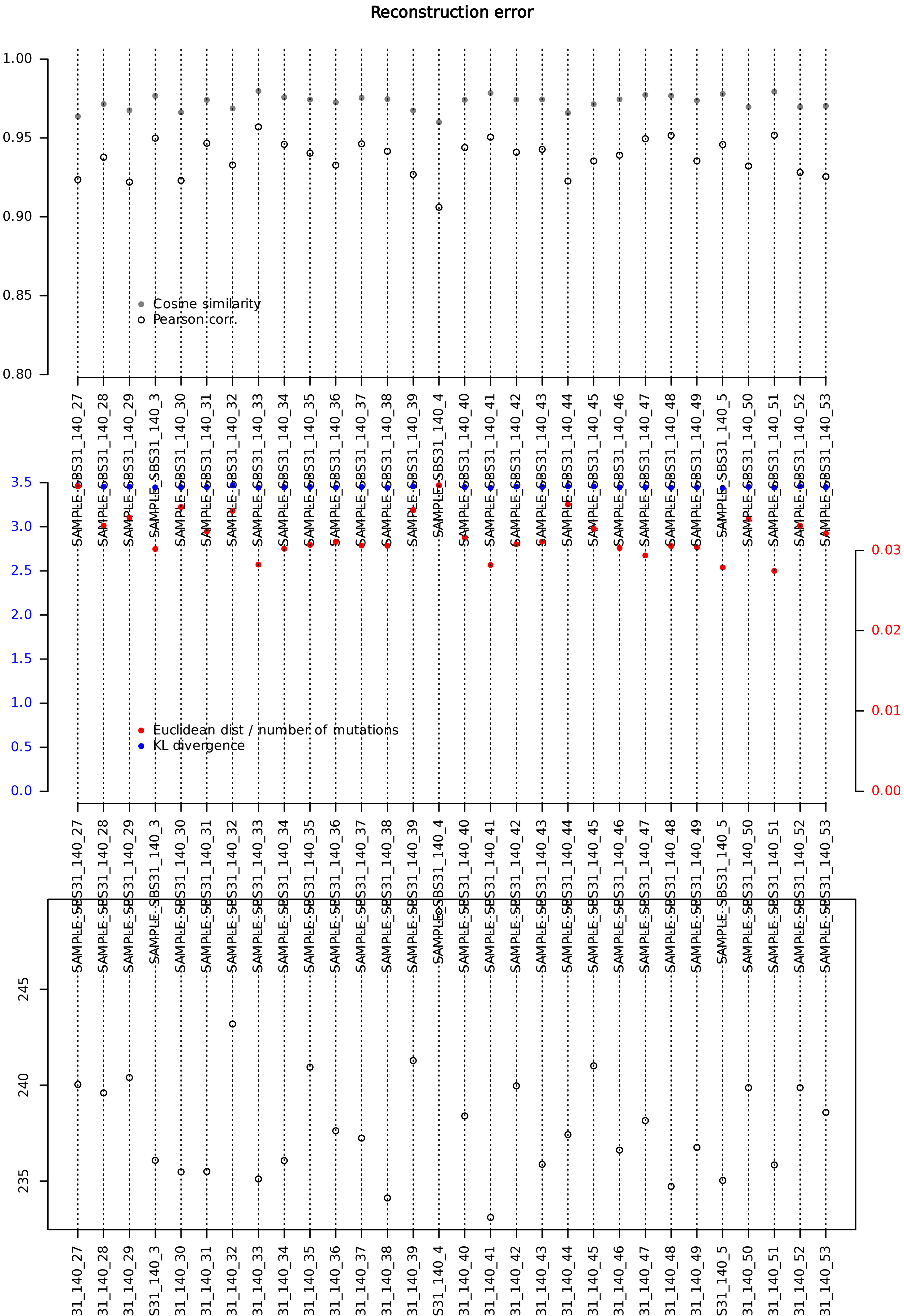
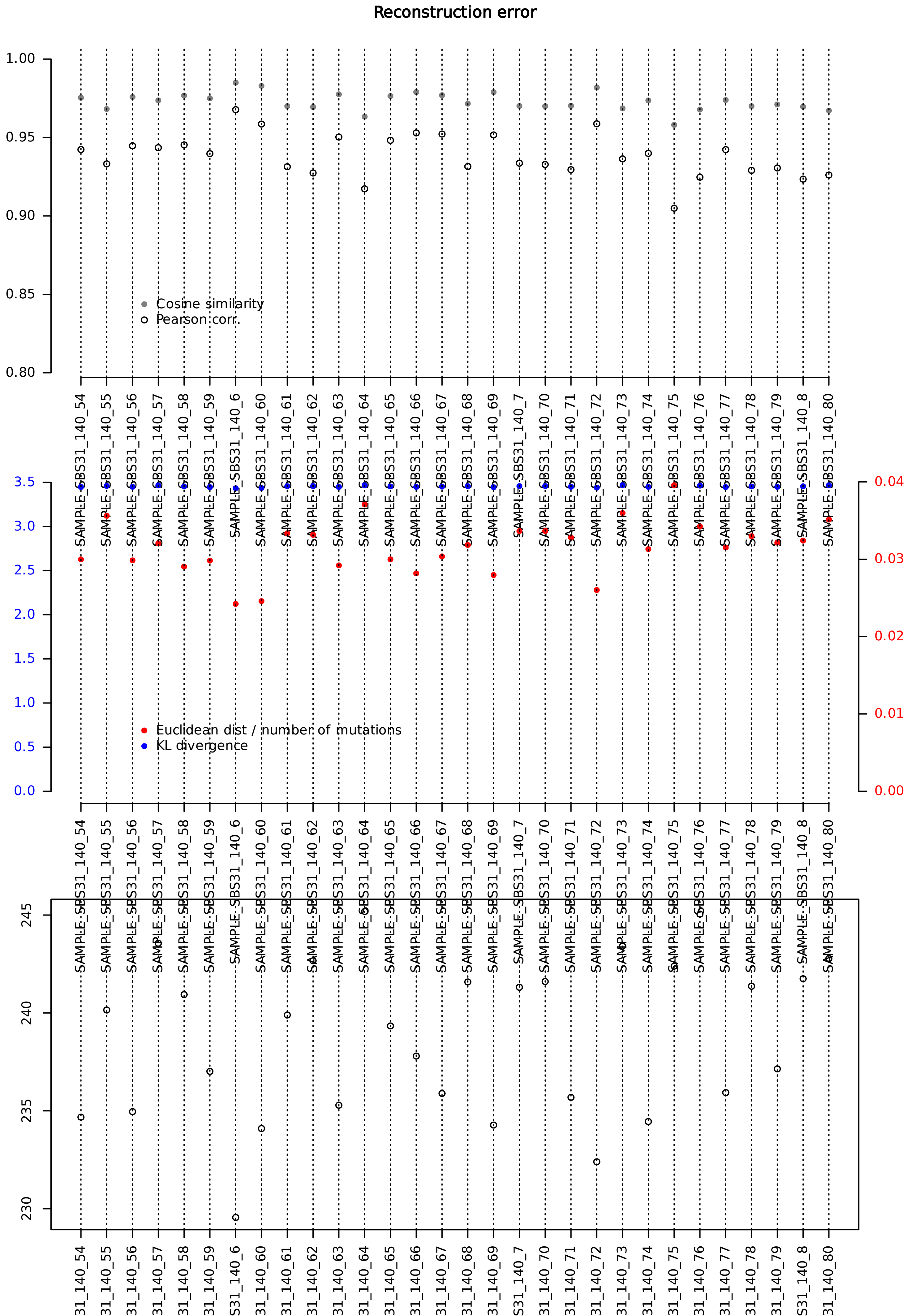
31_135_61
31_135_62

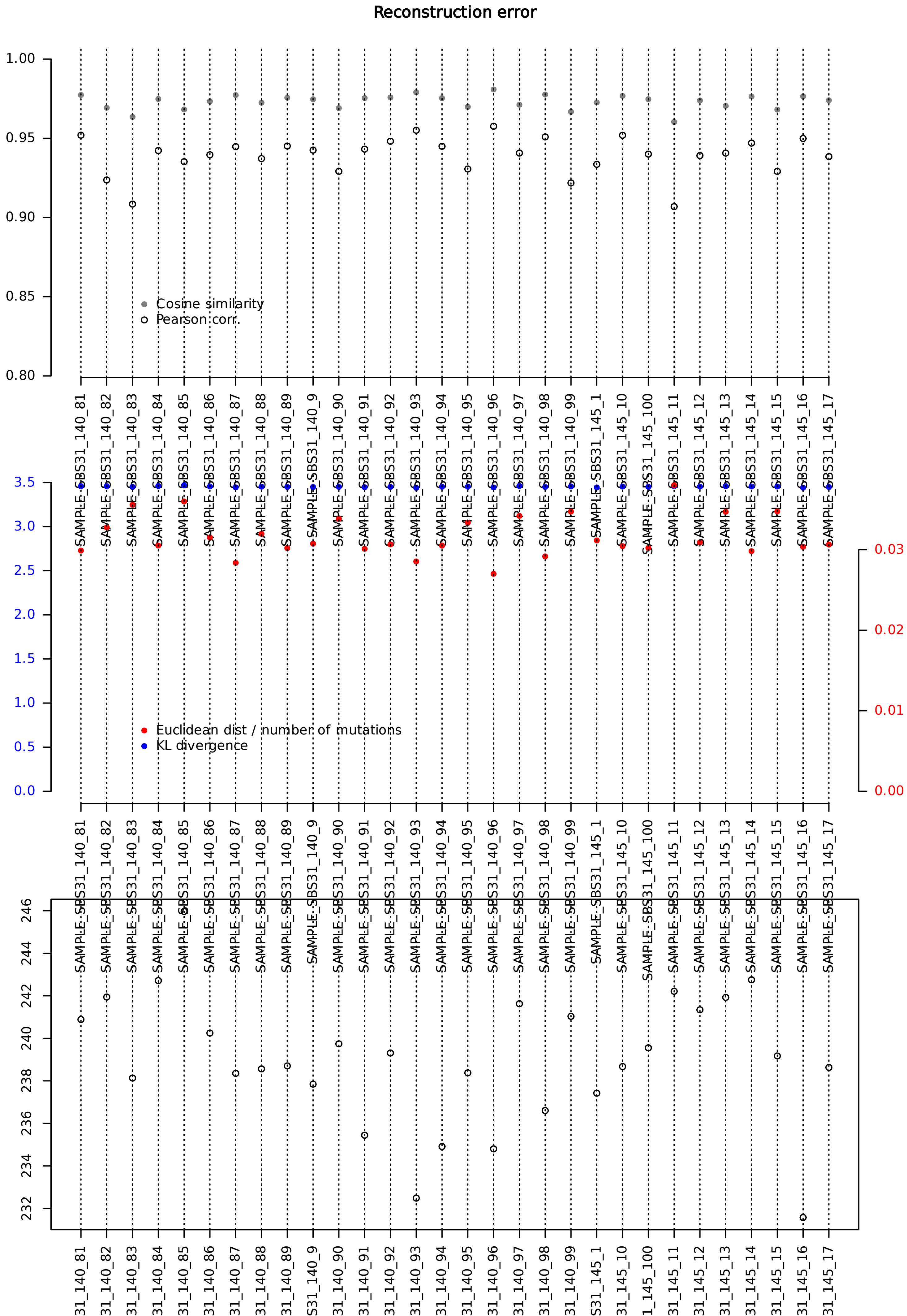

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
SAMPLE-SBS31_135_63
SAMPLE-SBS31_135_64
SAMPLE-SBS31_135_65
SAMPLE-SBS31_135_66
SAMPLE-SBS31_135_67
SAMPLE-SBS31_135_68
SAMPLE-SBS31_135_69
SAMPLE-SBS31_135_7
SAMPLE-SBS31_135_70
SAMPLE-SBS31_135_71
SAMPLE-SBS31_135_72
SAMPLE-SBS31_135_73
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
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
Euclidean dist / number of mutations
KL divergence
244
242
240
238
236
234
232

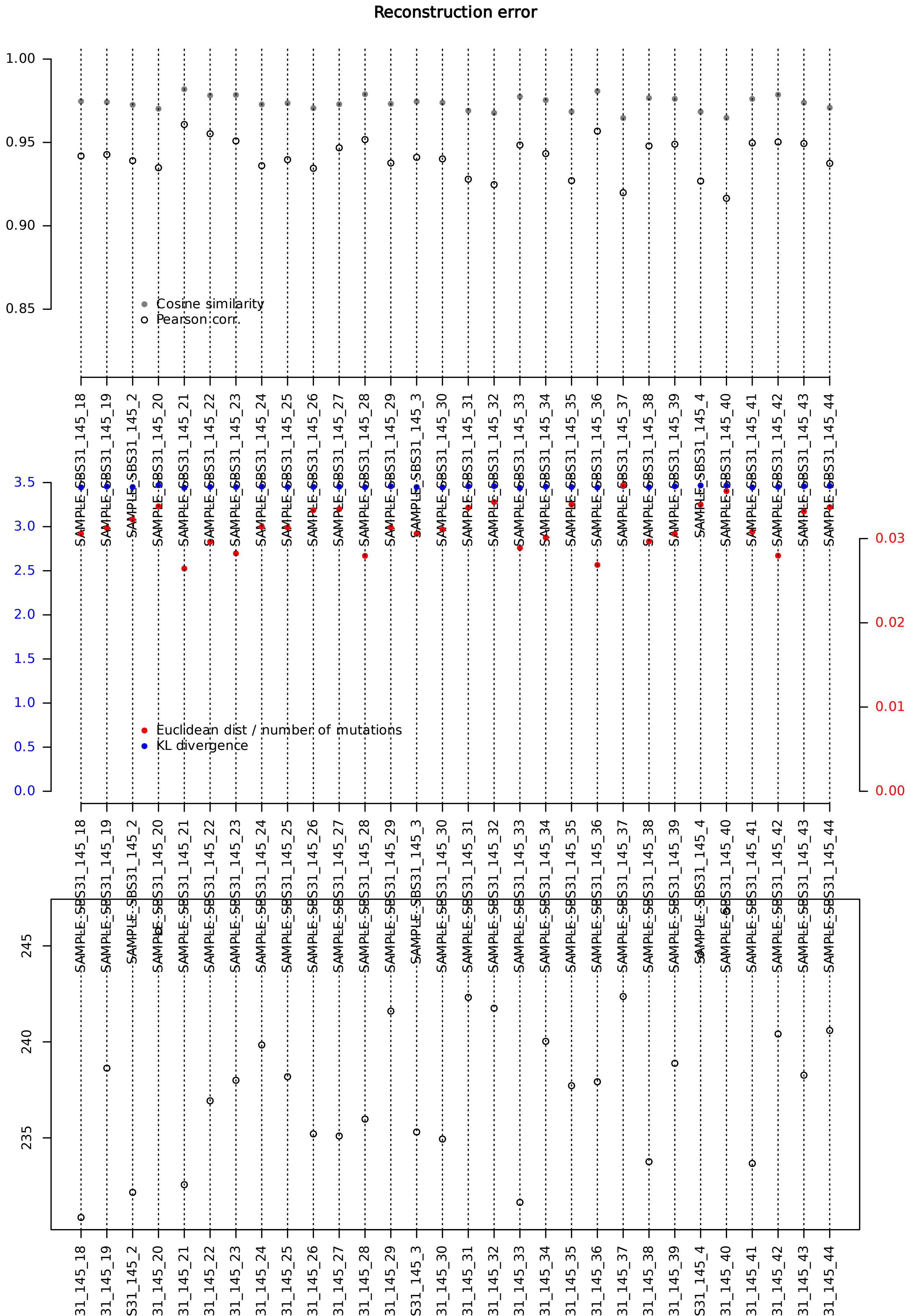
Reconstruction error

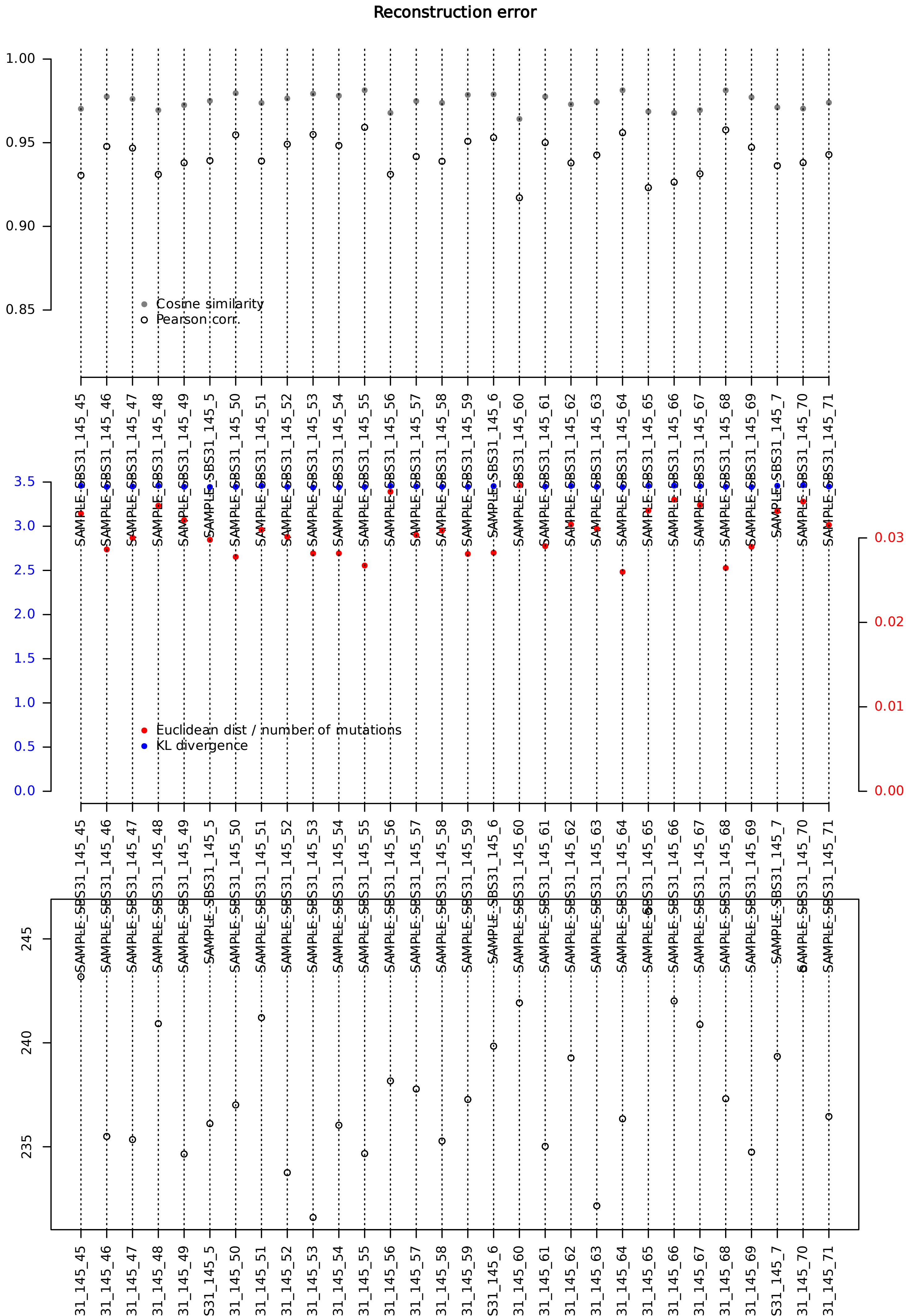



Reconstruction error
1.00
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
SAMPLE-SBS31_140_27
SAMPLE-SBS31_140_28
SAMPLE-SBS31_140_29
SAMPLE-SBS31_140_3
SAMPLE-SBS31_140_30
SAMPLE-SBS31_140_31
SAMPLE-SBS31_140_32
SAMPLE-SBS31_140_33
SAMPLE-SBS31_140_34
SAMPLE-SBS31_140_35
SAMPLE-SBS31_140_36
SAMPLE-SBS31_140_37
SAMPLE-SBS31_140_38
SAMPLE-SBS31_140_39
SAMPLE-SBS31_140_4
SAMPLE-SBS31_140_40
SAMPLE-SBS31_140_41
SAMPLE-SBS31_140_42
SAMPLE-SBS31_140_43
SAMPLE-SBS31_140_44
SAMPLE-SBS31_140_45
SAMPLE-SBS31_140_46
SAMPLE-SBS31_140_47
SAMPLE-SBS31_140_48
SAMPLE-SBS31_140_49
SAMPLE-SBS31_140_5
SAMPLE-SBS31_140_50
SAMPLE-SBS31_140_51
SAMPLE-SBS31_140_52
SAMPLE-SBS31_140_53
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
245
240
235

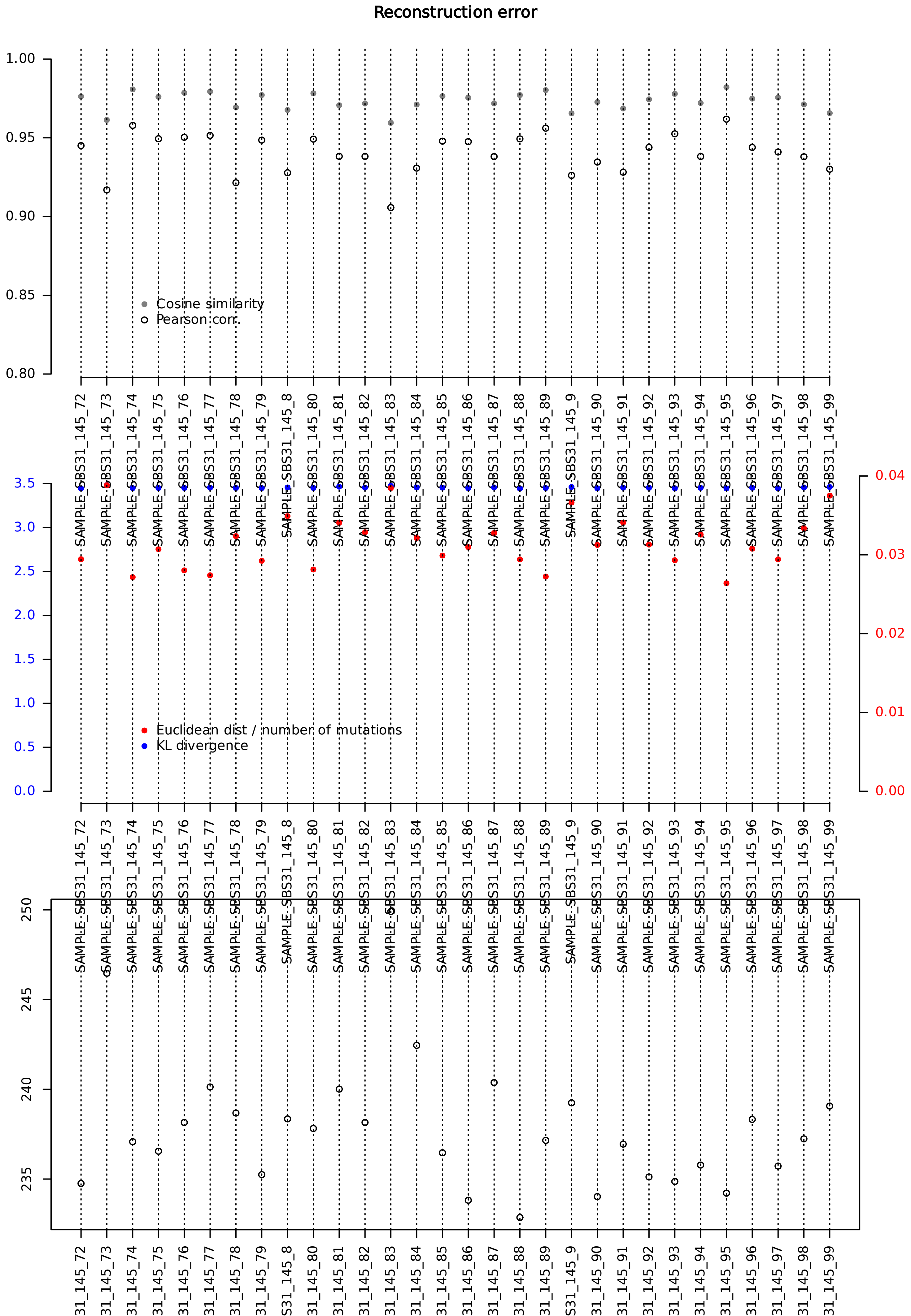

Reconstruction error


Reconstruction error
1.00
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
SAMPLE-SBS31_140_81
SAMPLE-SBS31_140_82
SAMPLE-SBS31_140_83
SAMPLE-SBS31_140_84
SAMPLE-SBS31_140_85
SAMPLE-SBS31_140_86
SAMPLE-SBS31_140_87
SAMPLE-SBS31_140_88
SAMPLE-SBS31_140_89
SAMPLE-SBS31_140_9
SAMPLE-SBS31_140_90
SAMPLE-SBS31_140_91
SAMPLE-SBS31_140_92
SAMPLE-SBS31_140_93
SAMPLE-SBS31_140_94
SAMPLE-SBS31_140_95
SAMPLE-SBS31_140_96
SAMPLE-SBS31_140_97
SAMPLE-SBS31_140_98
SAMPLE-SBS31_140_99
SAMPLE-SBS31_145_1
SAMPLE-SBS31_145_10
SAMPLE-SBS31_145_100
SAMPLE-SBS31_145_11
SAMPLE-SBS31_145_12
SAMPLE-SBS31_145_13
SAMPLE-SBS31_145_14
SAMPLE-SBS31_145_15
SAMPLE-SBS31_145_16
SAMPLE-SBS31_145_17
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
246
244
242
240
238
236
234
232


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
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
245
240
235
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
SAMPLE-SBS31_145_30
SAMPLE-SBS31_145_31
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


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
250
245
240
235
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
SAMPLE_SBS31_145_80
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
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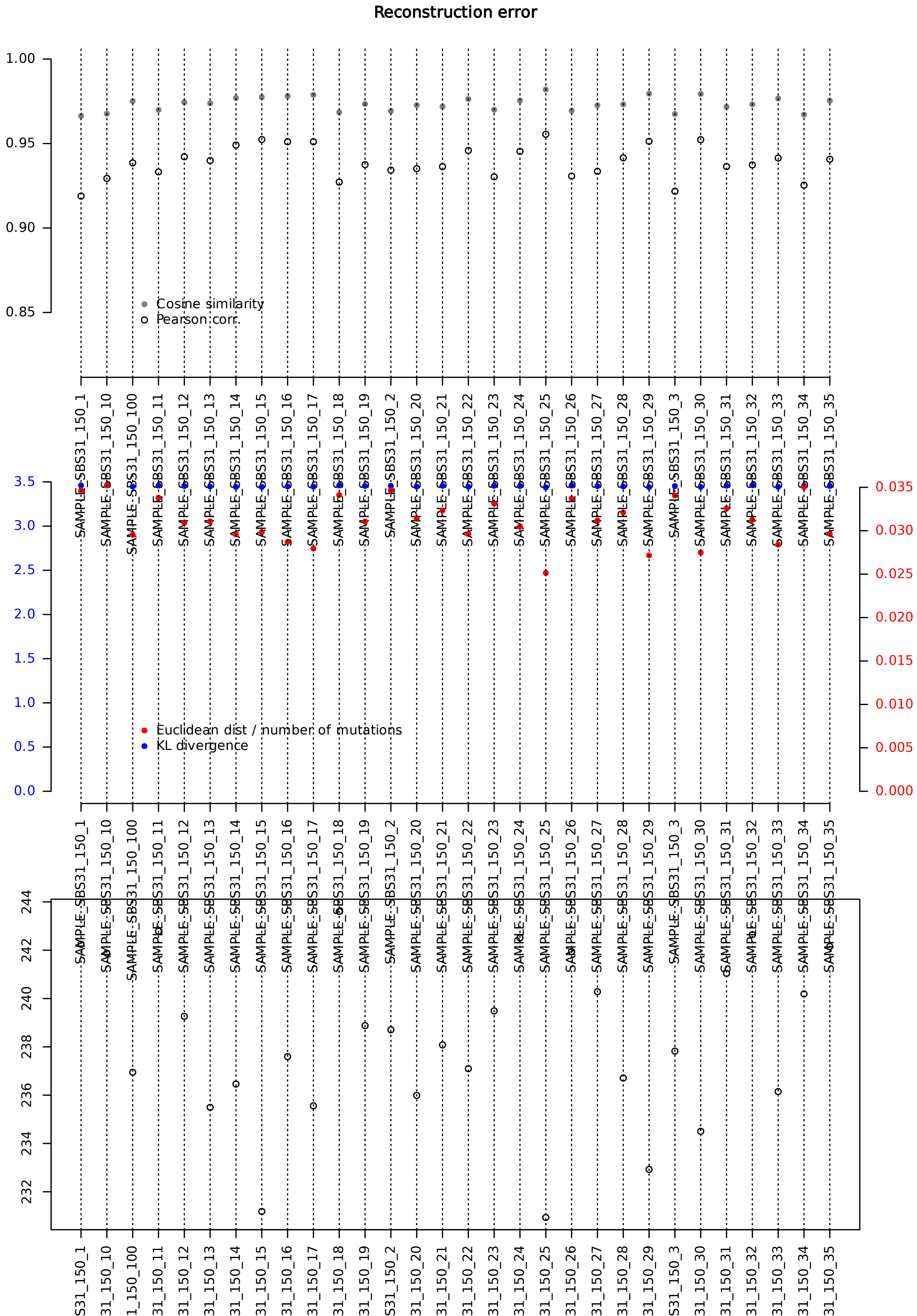
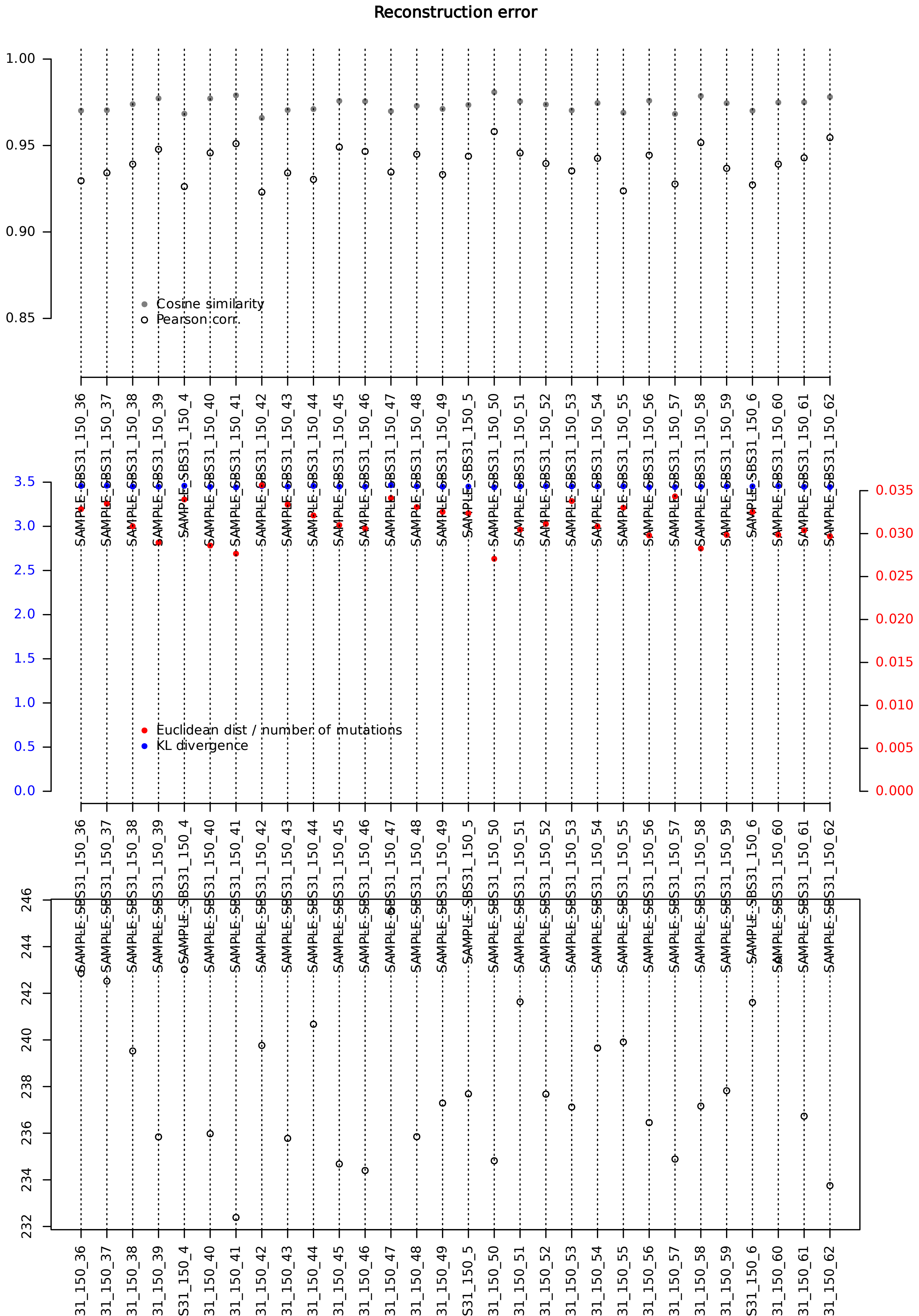
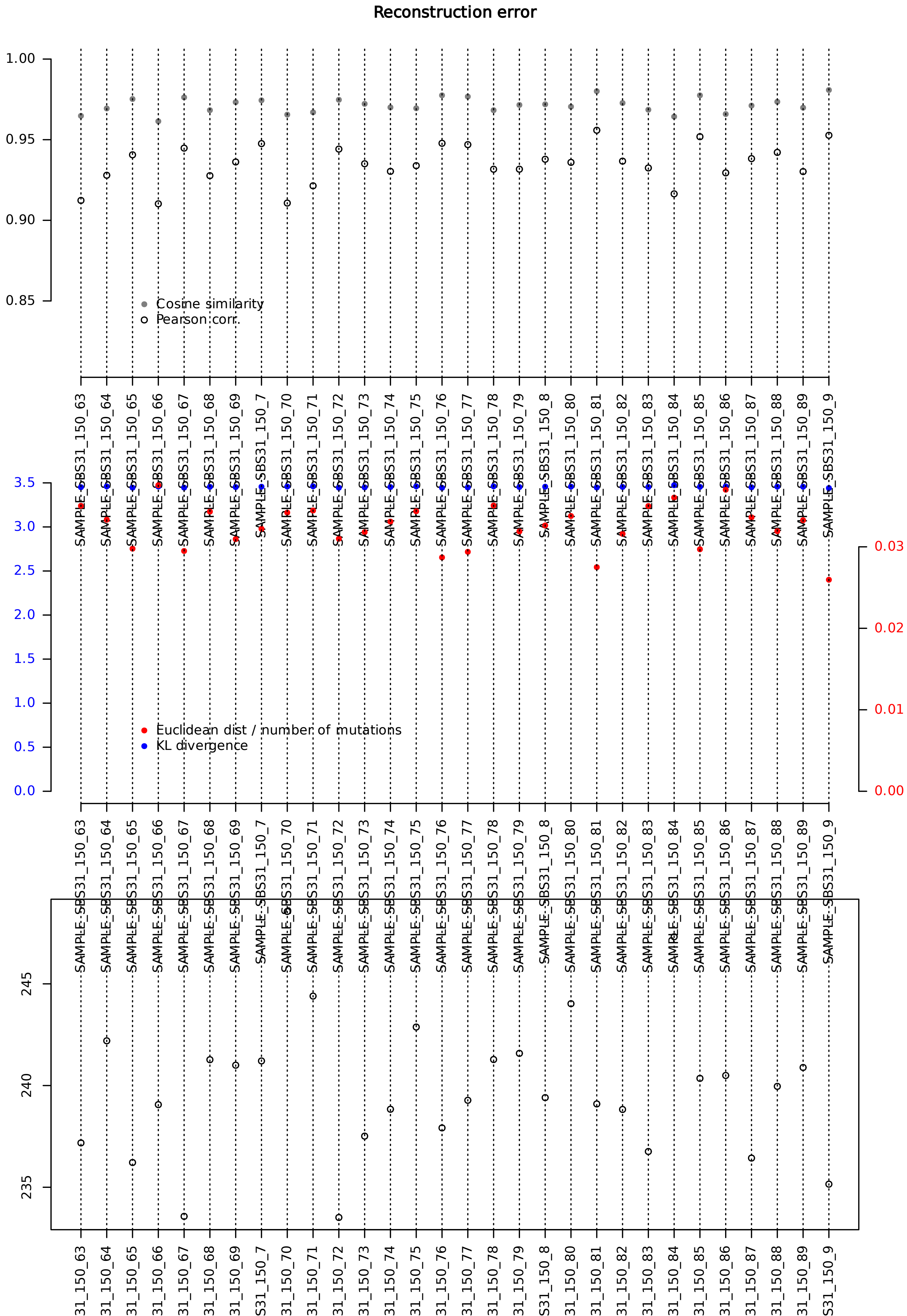
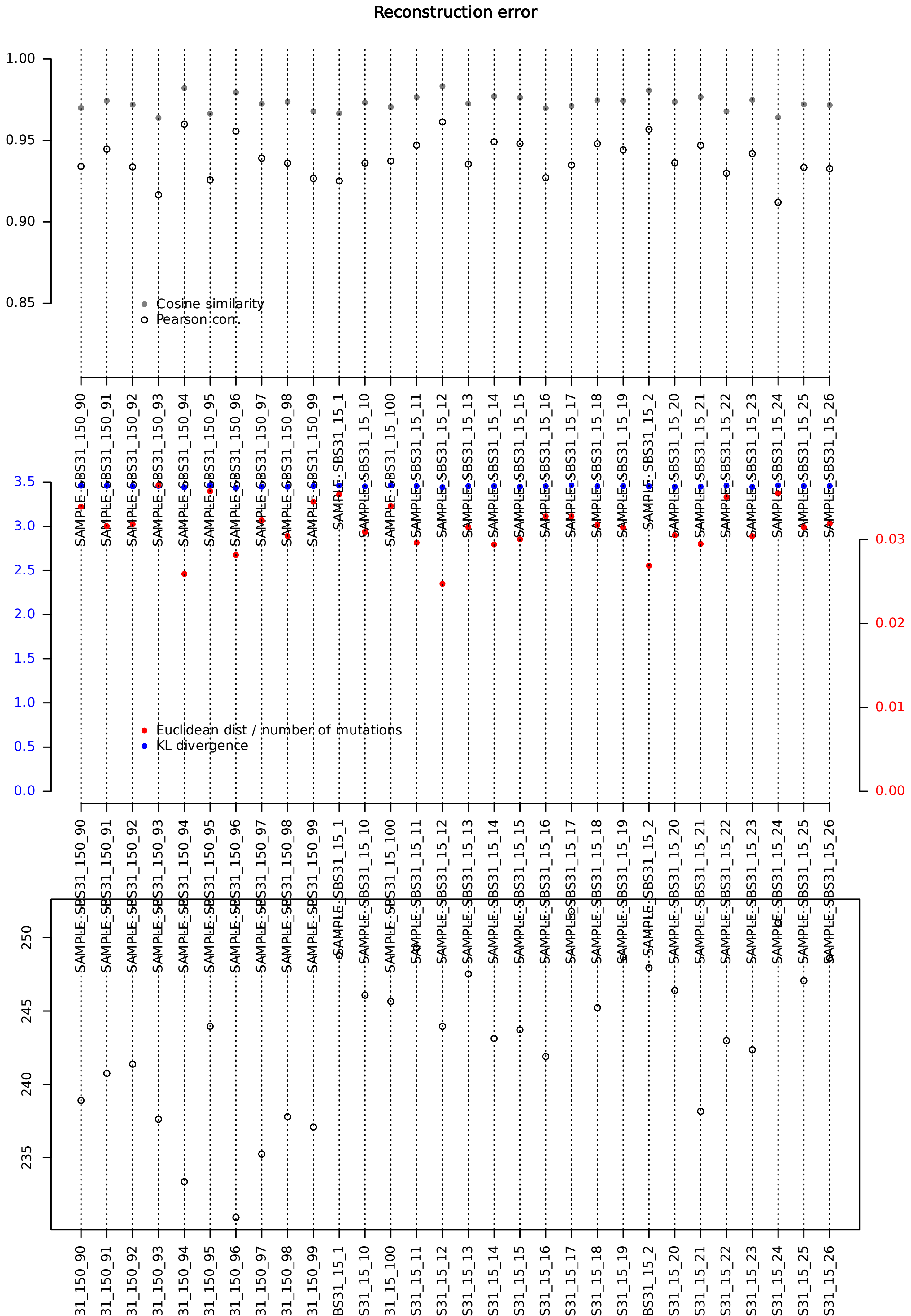
SAMPLE_SBS31_145_92
SAMPLE_SBS31_145_93
SAMPLE_SBS31_145_94
SAMPLE_SBS31_145_95
SAMPLE_SBS31_145_96
SAMPLE_SBS31_145_97
SAMPLE_SBS31_145_98
SAMPLE_SBS31_145_99

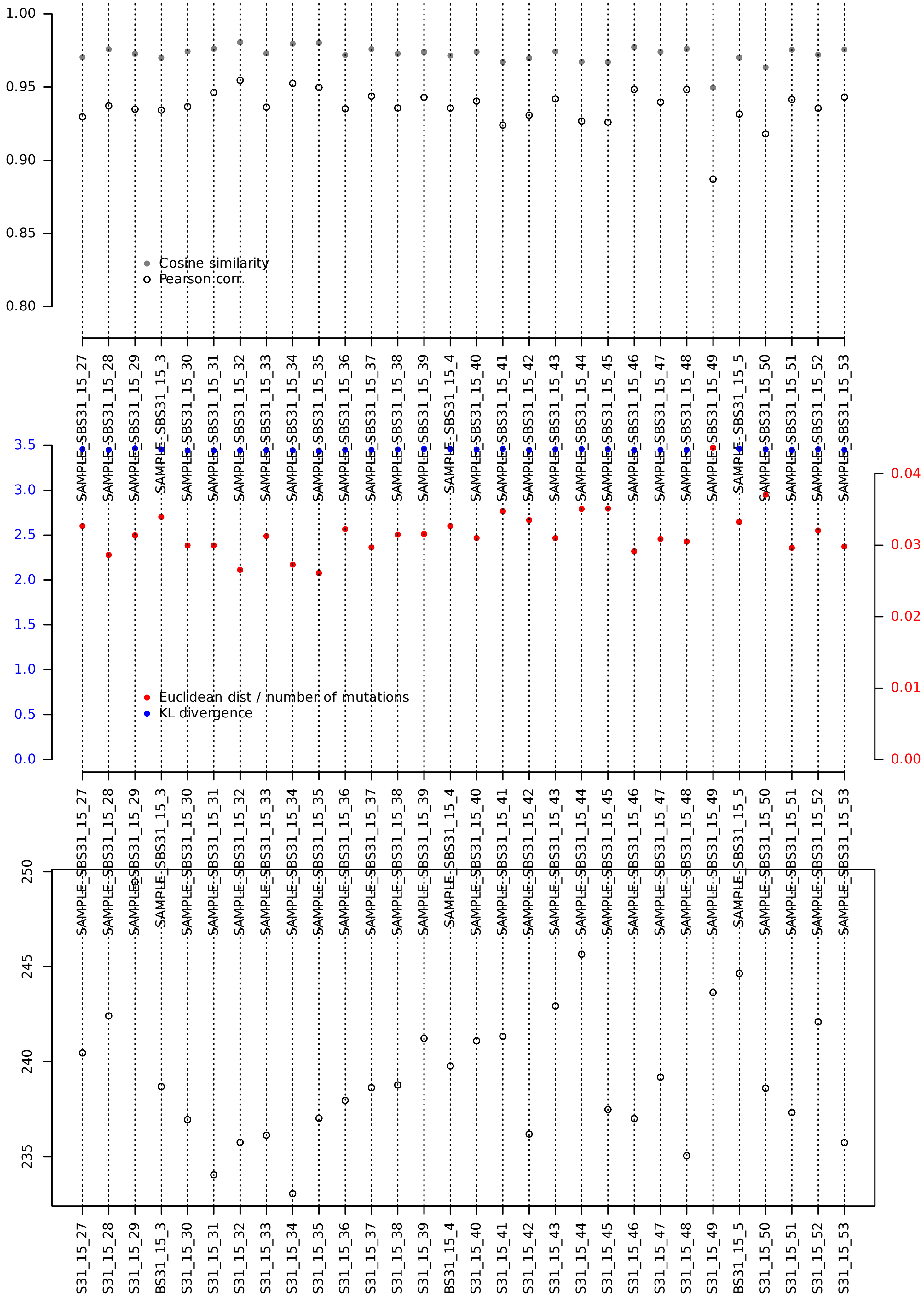

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
Euclidean dist / number of mutations
KL divergence
244
242
240
238
236
234
232
SAMPLE-SBS31_150_1
SAMPLE-SBS31_150_10
SAMPLE-SBS31_150_100
SAMPLE-SBS31_150_11
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
SAMPLE-SBS31_150_2
SAMPLE-SBS31_150_20
SAMPLE-SBS31_150_21
SAMPLE-SBS31_150_22
SAMPLE-SBS31_150_23
SAMPLE-SBS31_150_24
SAMPLE-SBS31_150_25
SAMPLE-SBS31_150_26
SAMPLE-SBS31_150_27
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



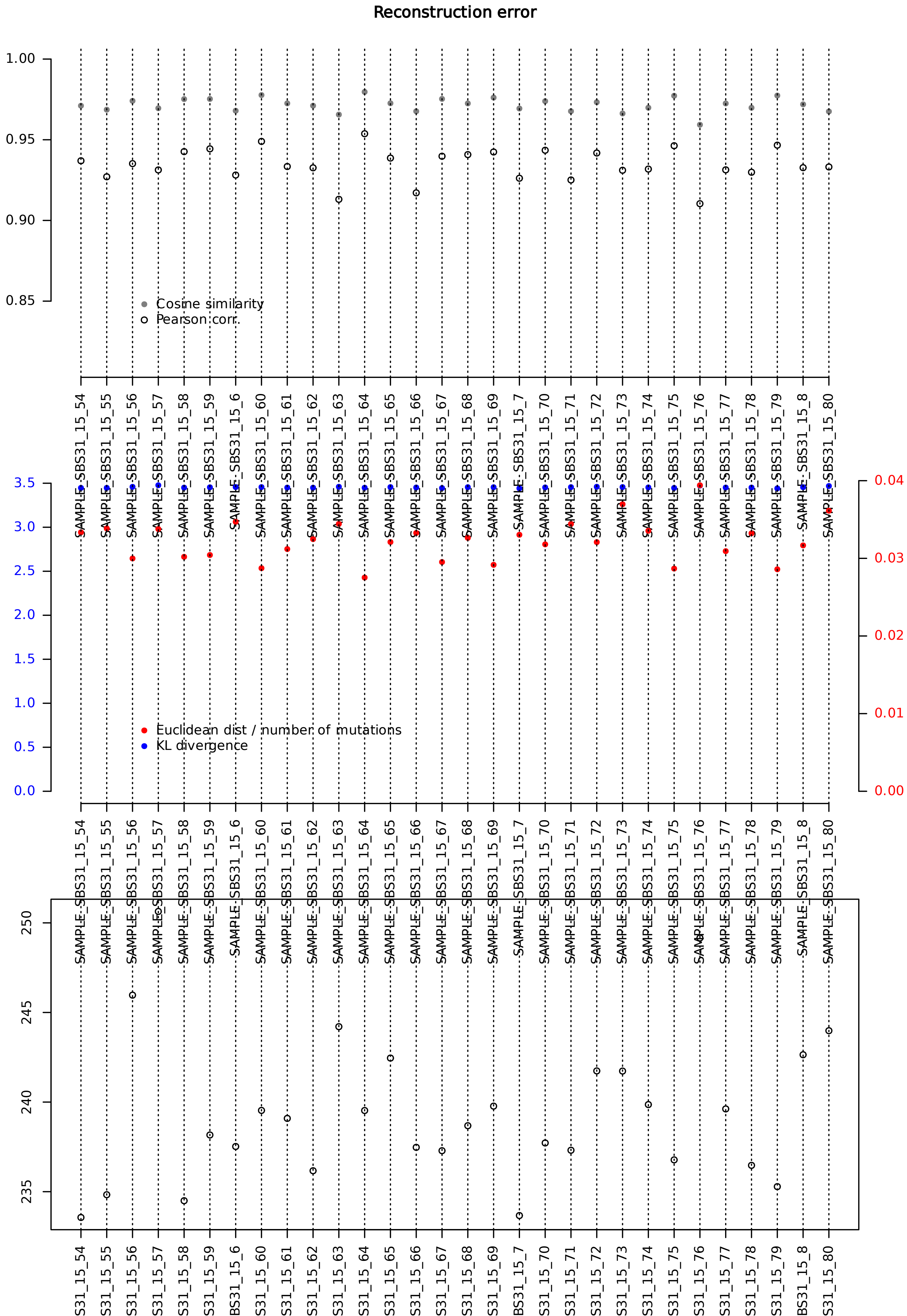
Reconstruction error


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
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
245
240
235
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
SAMPLE-SBS31_150_75
SAMPLE-SBS31_150_76
SAMPLE-SBS31_150_77
SAMPLE-SBS31_150_78
SAMPLE-SBS31_150_79
SAMPLE-SBS31_150_8
SAMPLE-SBS31_150_80
SAMPLE-SBS31_150_81
SAMPLE-SBS31_150_82
SAMPLE-SBS31_150_83
SAMPLE-SBS31_150_84
SAMPLE-SBS31_150_85
SAMPLE-SBS31_150_86
SAMPLE-SBS31_150_87
SAMPLE-SBS31_150_88
SAMPLE-SBS31_150_89
SAMPLE-SBS31_150_9

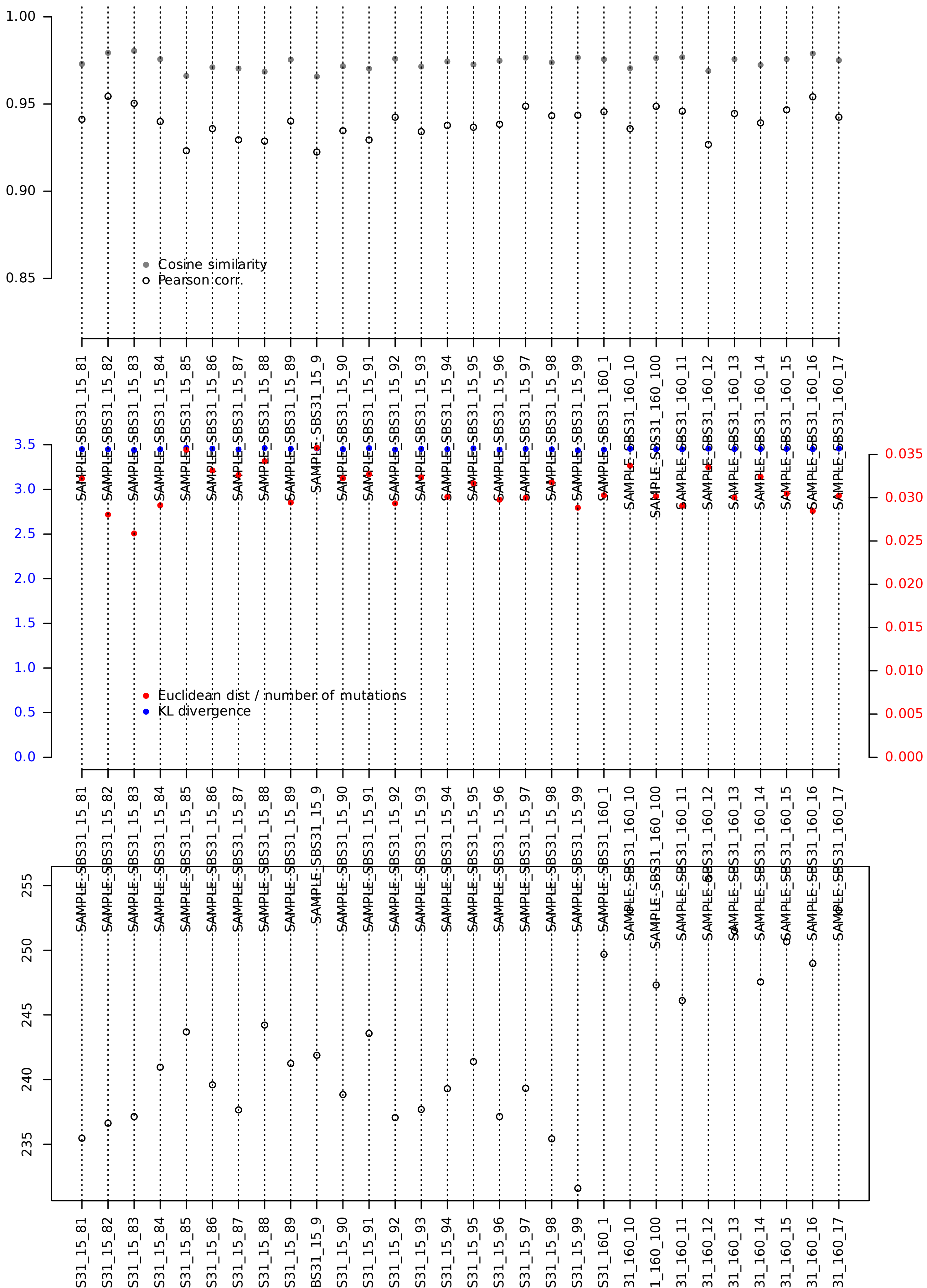

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
250
245
240
235
SAMPLE-SBS31_150_90
SAMPLE-SBS31_150_91
SAMPLE-SBS31_150_92
SAMPLE-SBS31_150_93
SAMPLE-SBS31_150_94
SAMPLE-SBS31_150_95
SAMPLE-SBS31_150_96
SAMPLE-SBS31_150_97
SAMPLE-SBS31_150_98
SAMPLE-SBS31_150_99
SAMPLE-SBS31_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
SAMPLE-SBS31_15_18
SAMPLE-SBS31_15_19
SAMPLE-SBS31_15_2
SAMPLE-SBS31_15_20
SAMPLE-SBS31_15_21
SAMPLE-SBS31_15_22
SAMPLE-SBS31_15_23
SAMPLE-SBS31_15_24
SAMPLE-SBS31_15_25
SAMPLE-SBS31_15_26

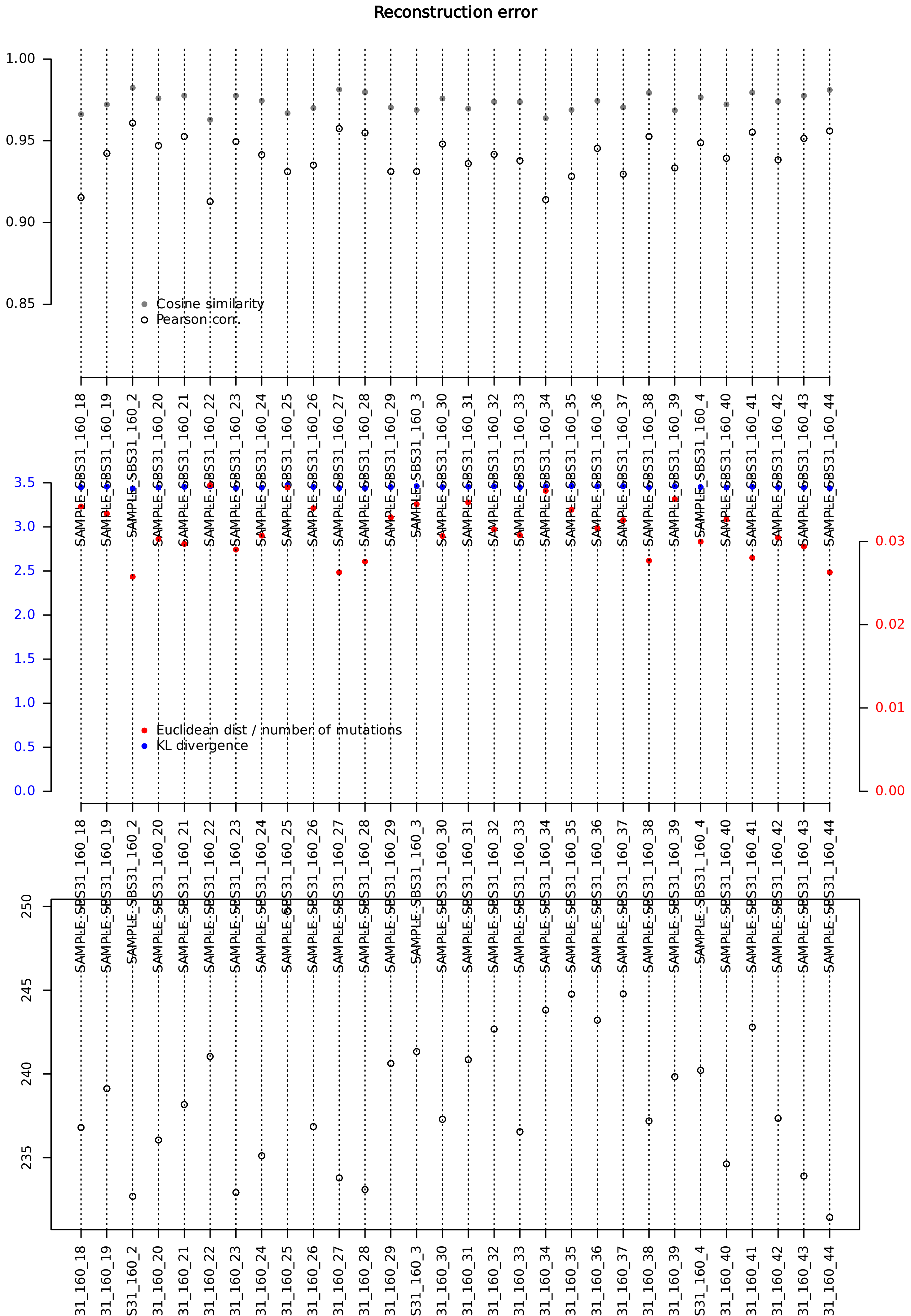


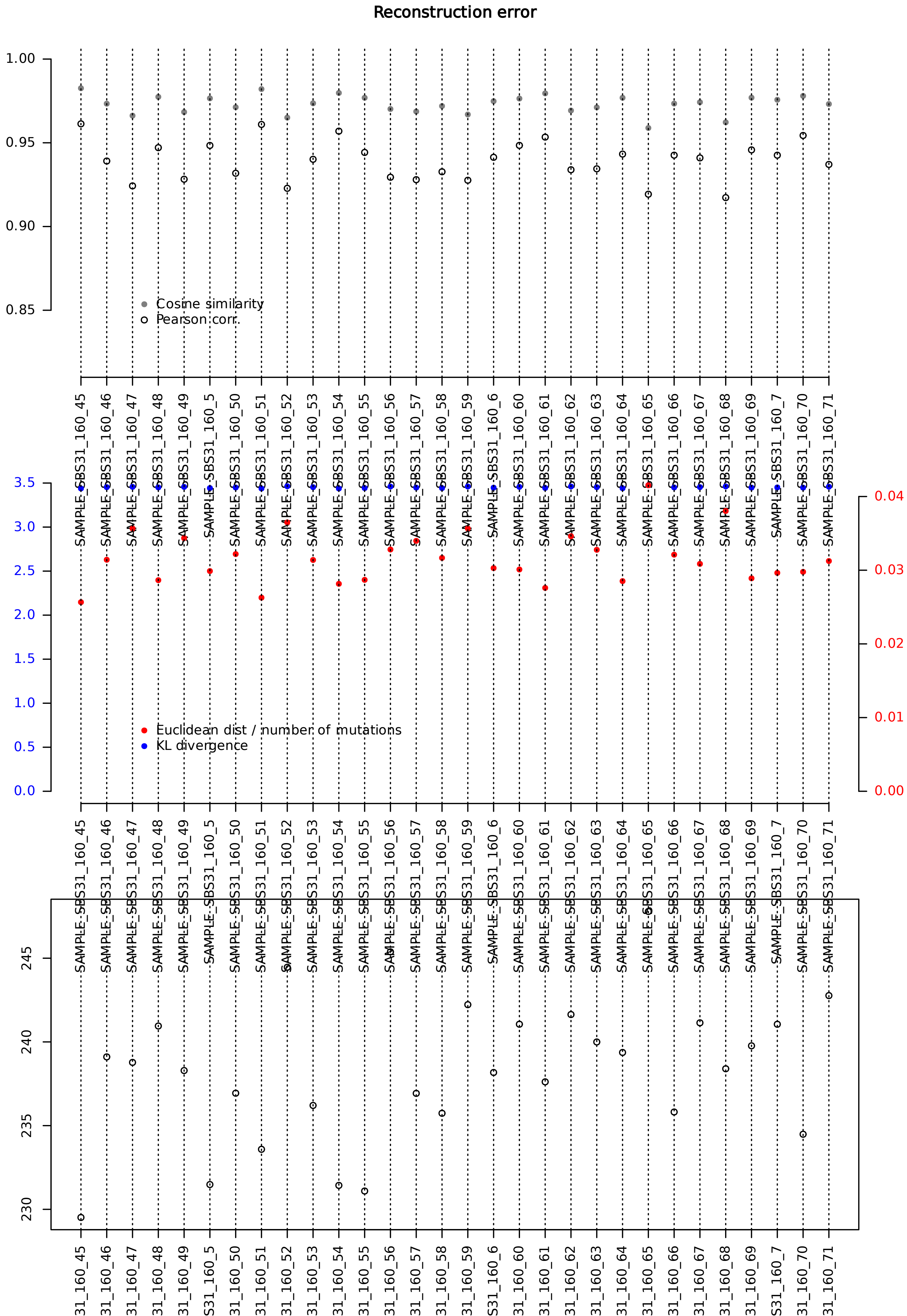
Reconstruction error

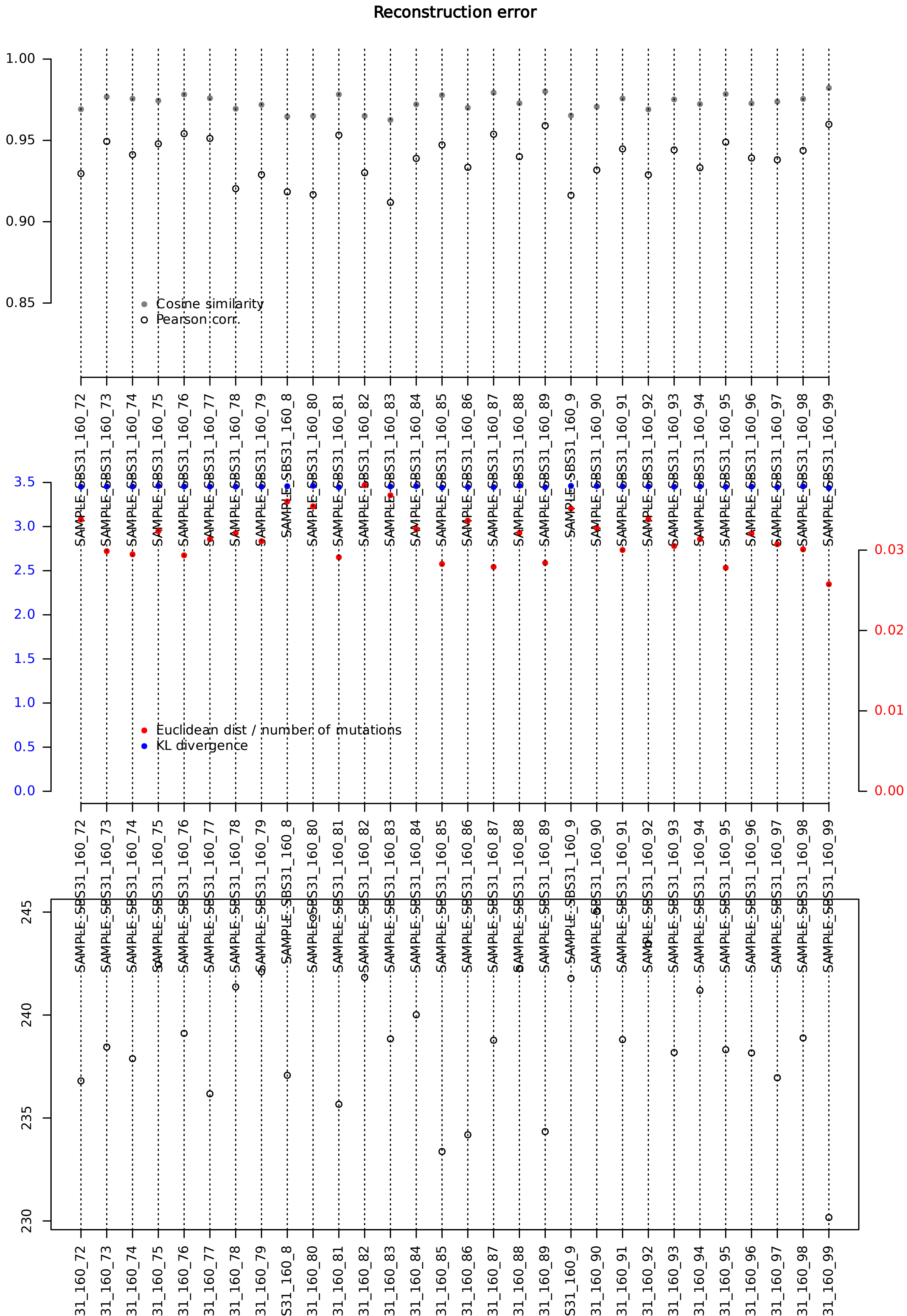

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
250
245
240
235
SAMPLE_SBS31_15_54
SAMPLE_SBS31_15_55
SAMPLE_SBS31_15_56
SAMPLE_SBS31_15_57
SAMPLE_SBS31_15_58
SAMPLE_SBS31_15_59
SAMPLE_SBS31_15_6
SAMPLE_SBS31_15_60
SAMPLE_SBS31_15_61
SAMPLE_SBS31_15_62
SAMPLE_SBS31_15_63
SAMPLE_SBS31_15_64
SAMPLE_SBS31_15_65
SAMPLE_SBS31_15_66
SAMPLE_SBS31_15_67
SAMPLE_SBS31_15_68
SAMPLE_SBS31_15_69
SAMPLE_SBS31_15_7
SAMPLE_SBS31_15_70
SAMPLE_SBS31_15_71
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

Reconstruction error

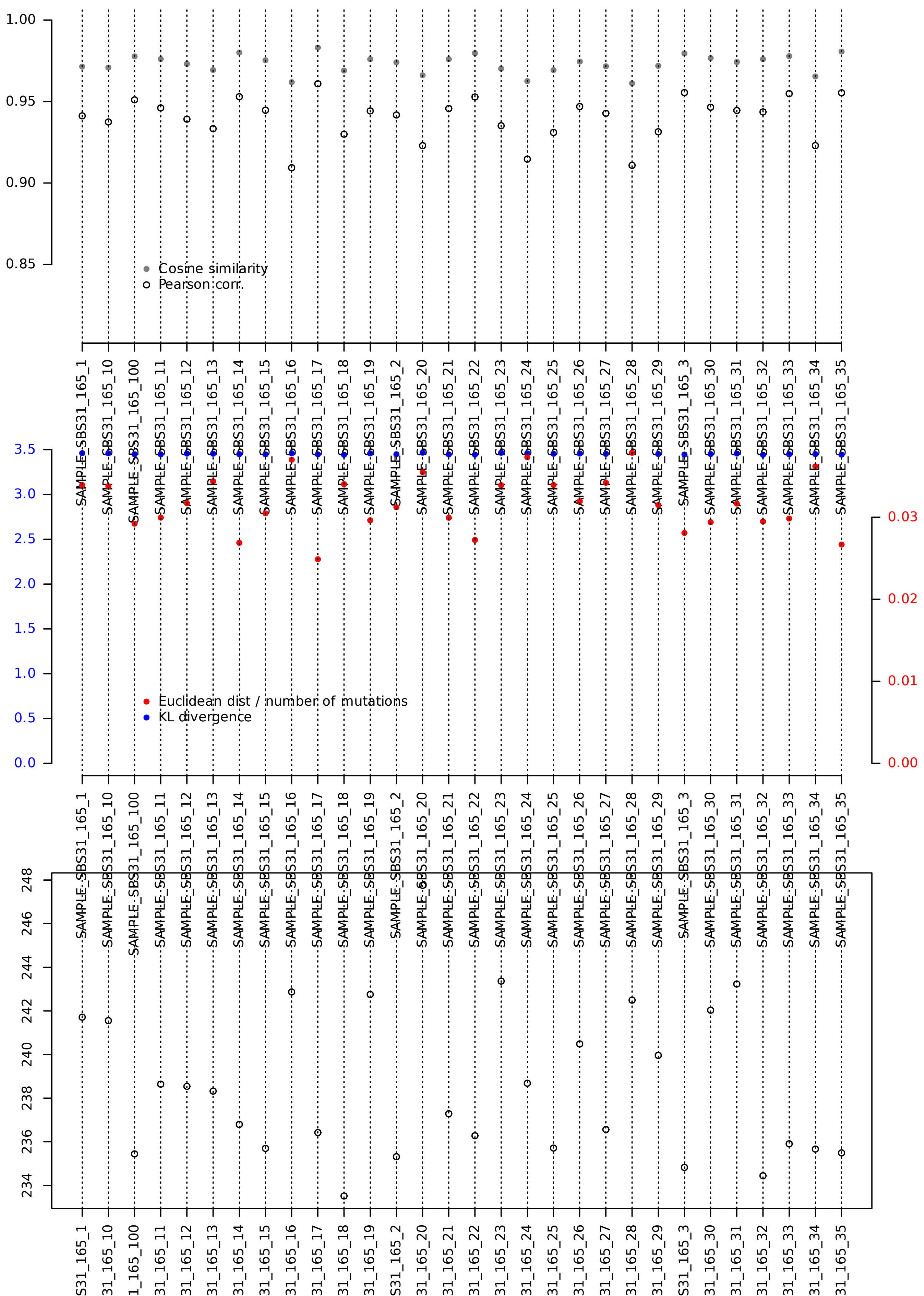


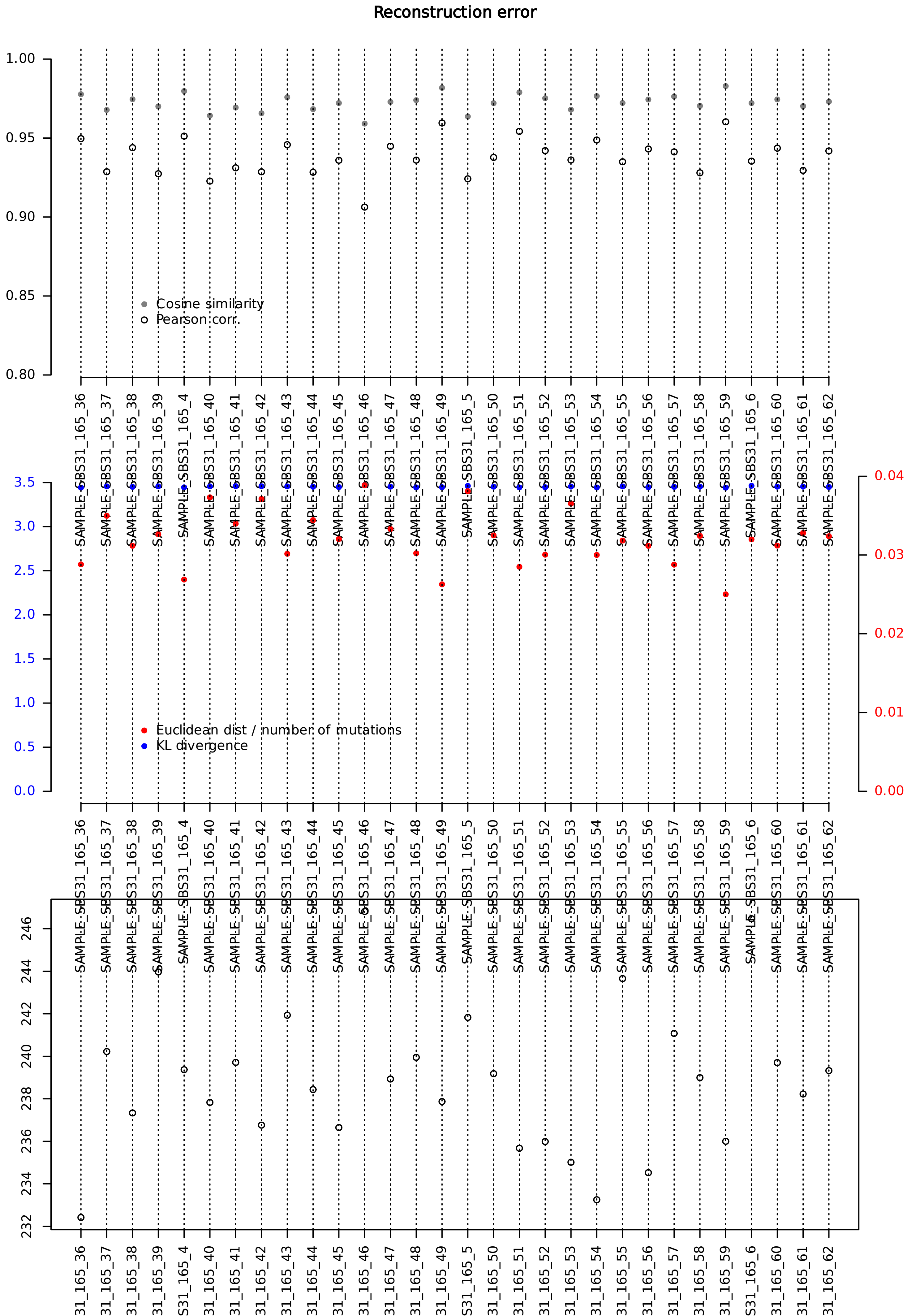

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
250
245
240
235
SAMPLE-SBS31_160_18
SAMPLE-SBS31_160_19
SAMPLE-SBS31_160_2
SAMPLE-SBS31_160_20
SAMPLE-SBS31_160_21
SAMPLE-SBS31_160_22
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
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

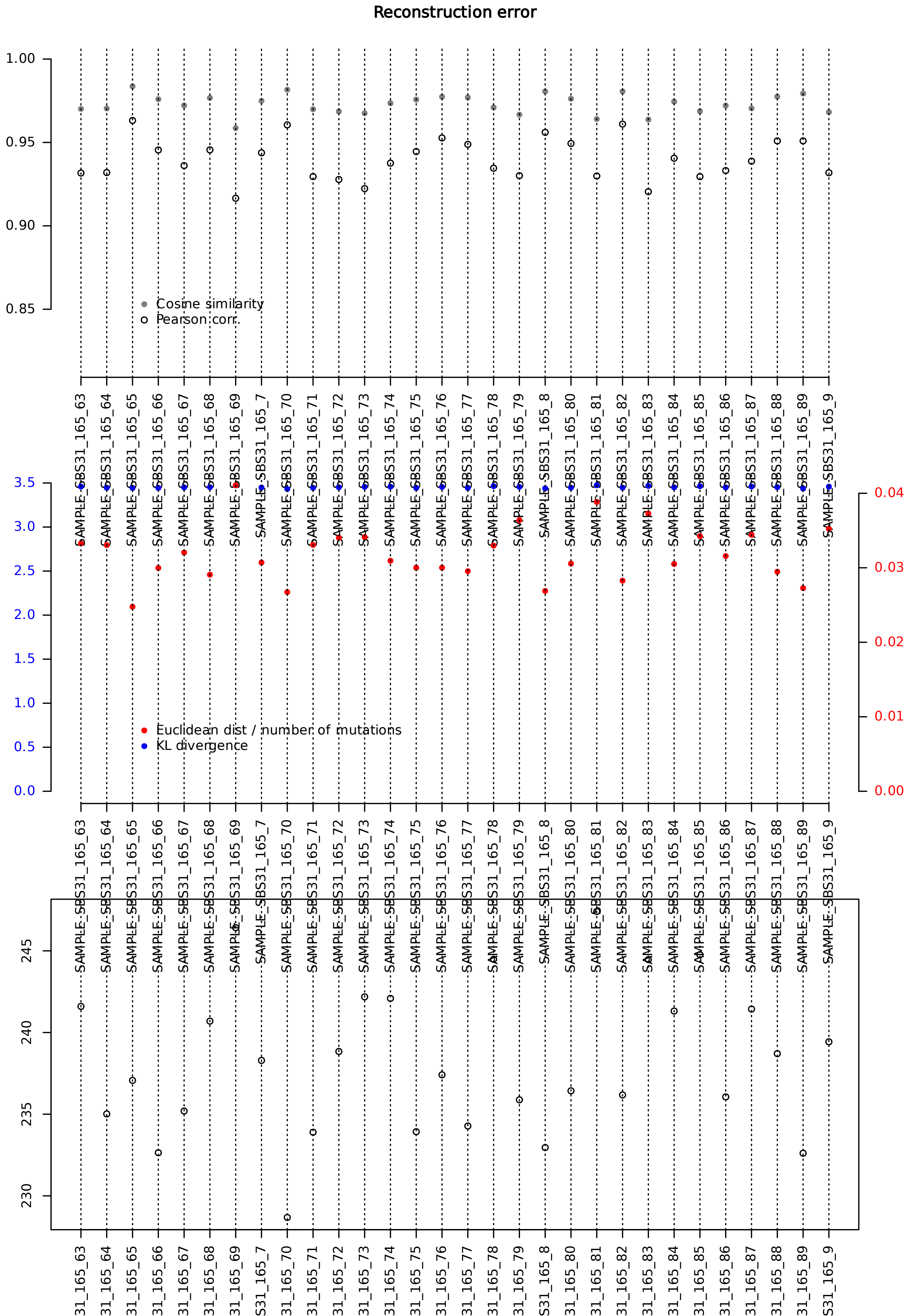

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
245
240
235
230
SAMPLE-SBS31_160_45
SAMPLE-SBS31_160_46
SAMPLE-SBS31_160_47
SAMPLE-SBS31_160_48
SAMPLE-SBS31_160_49
SAMPLE-SBS31_160_5
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
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

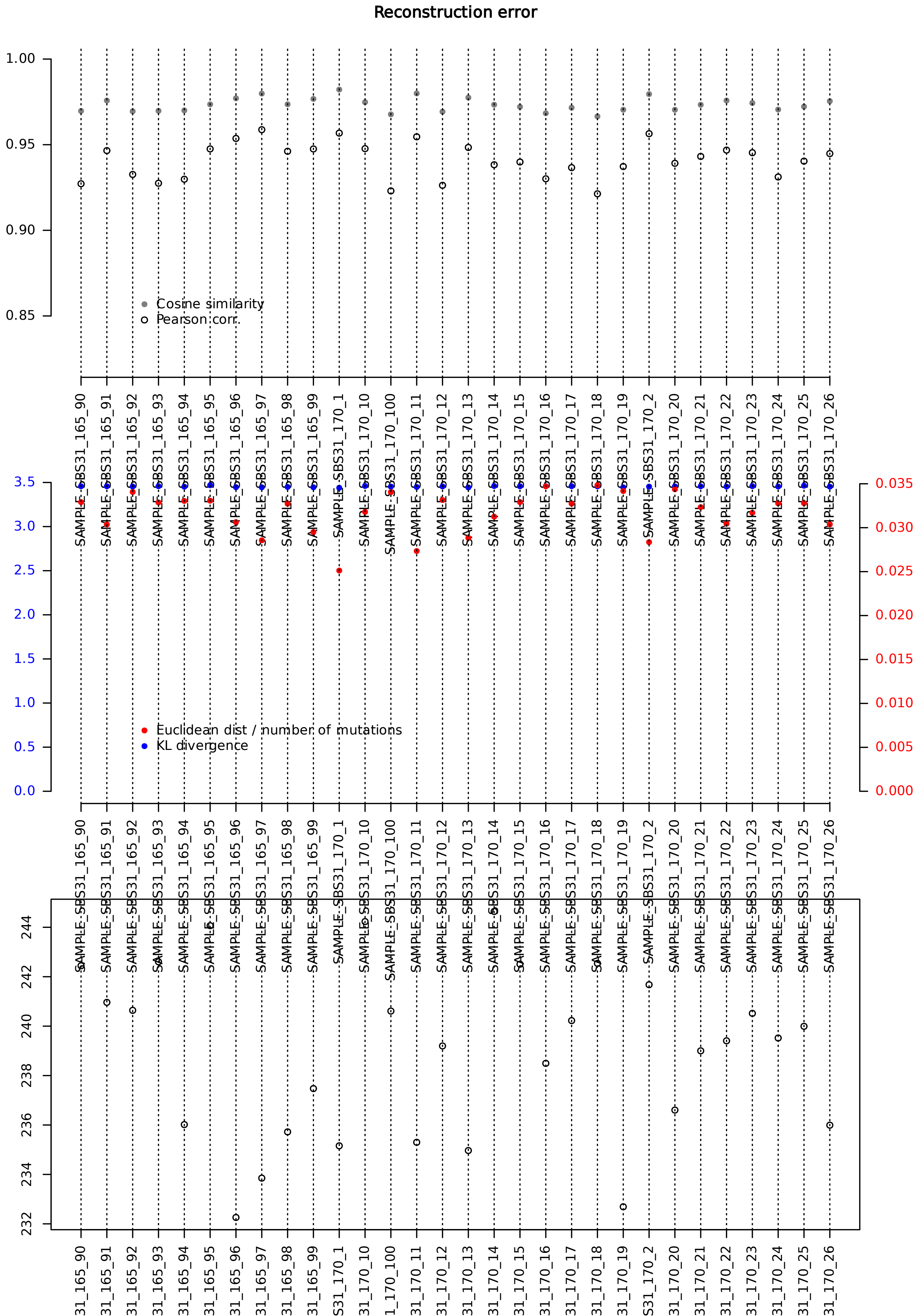

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
SAMPLE-SBS31_160_72
SAMPLE-SBS31_160_73
SAMPLE-SBS31_160_74
SAMPLE-SBS31_160_75
SAMPLE-SBS31_160_76
SAMPLE-SBS31_160_77
SAMPLE-SBS31_160_78
SAMPLE-SBS31_160_79
SAMPLE-SBS31_160_8
SAMPLE-SBS31_160_80
SAMPLE-SBS31_160_81
SAMPLE-SBS31_160_82
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
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
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
245
240
235
230

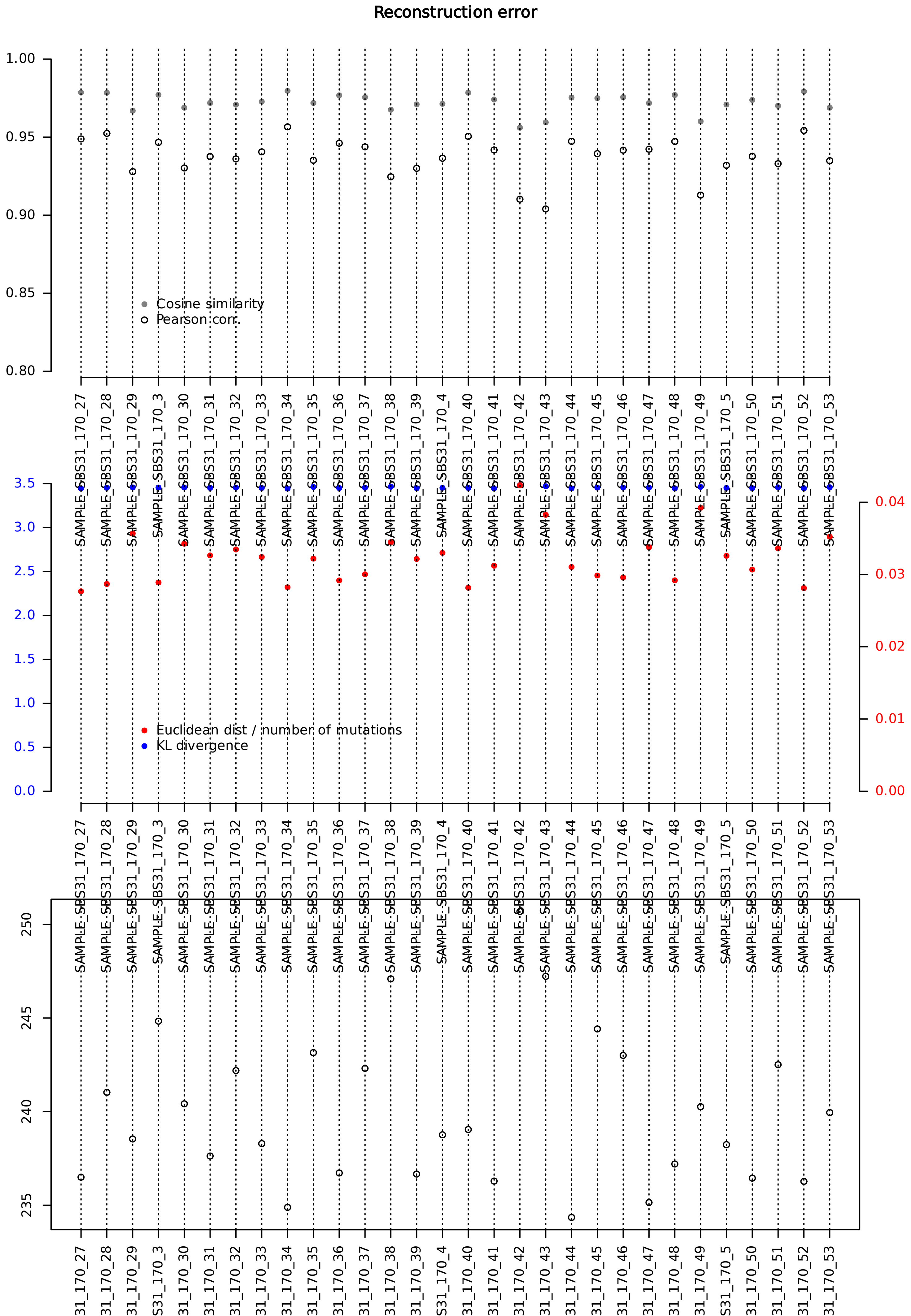
Reconstruction error




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
246
244
242
240
238
236
234
232
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
SAMPLE_SBS31_165_44
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
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


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
245
240
235
230
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
SAMPLE-SBS31_165_81
SAMPLE-SBS31_165_82
SAMPLE-SBS31_165_83
SAMPLE-SBS31_165_84
SAMPLE-SBS31_165_85
SAMPLE-SBS31_165_86
SAMPLE-SBS31_165_87
SAMPLE-SBS31_165_88
SAMPLE-SBS31_165_89
SAMPLE-SBS31_165_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
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
Euclidean dist / number of mutations
KL divergence
244
242
240
238
236
234
232
SAMPLE-SBS31_165_90
SAMPLE-SBS31_165_91
SAMPLE-SBS31_165_92
SAMPLE-SBS31_165_93
SAMPLE-SBS31_165_94
SAMPLE-SBS31_165_95
SAMPLE-SBS31_165_96
SAMPLE-SBS31_165_97
SAMPLE-SBS31_165_98
SAMPLE-SBS31_165_99
SAMPLE-SBS31_170_1
SAMPLE-SBS31_170_10
SAMPLE-SBS31_170_100
SAMPLE-SBS31_170_11
SAMPLE-SBS31_170_12
SAMPLE-SBS31_170_13
SAMPLE-SBS31_170_14
SAMPLE-SBS31_170_15
SAMPLE-SBS31_170_16
SAMPLE-SBS31_170_17
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


Reconstruction error
1.00
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
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
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SAMPLE_SBS31_170_49
SAMPLE_SBS31_170_5
SAMPLE_SBS31_170_50
SAMPLE_SBS31_170_51
SAMPLE_SBS31_170_52
SAMPLE_SBS31_170_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
250
245
240
235
31_170_27
31_170_28
31_170_29
S31_170_3
31_170_30
31_170_31
31_170_32
31_170_33
31_170_34
31_170_35
31_170_36
31_170_37
31_170_38
31_170_39
S31_170_4
31_170_40
31_170_41
31_170_42
31_170_43
31_170_44
31_170_45
31_170_46
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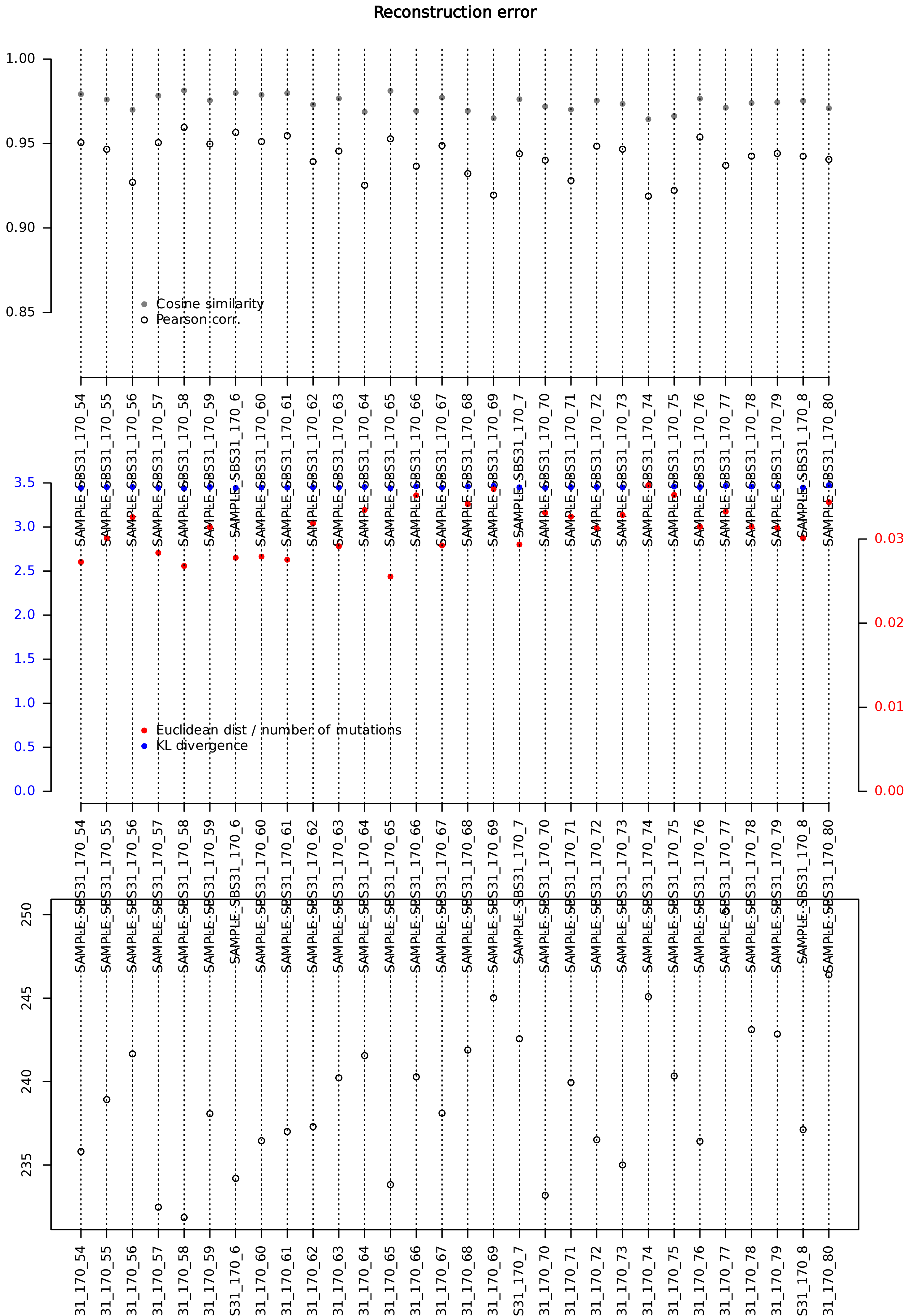
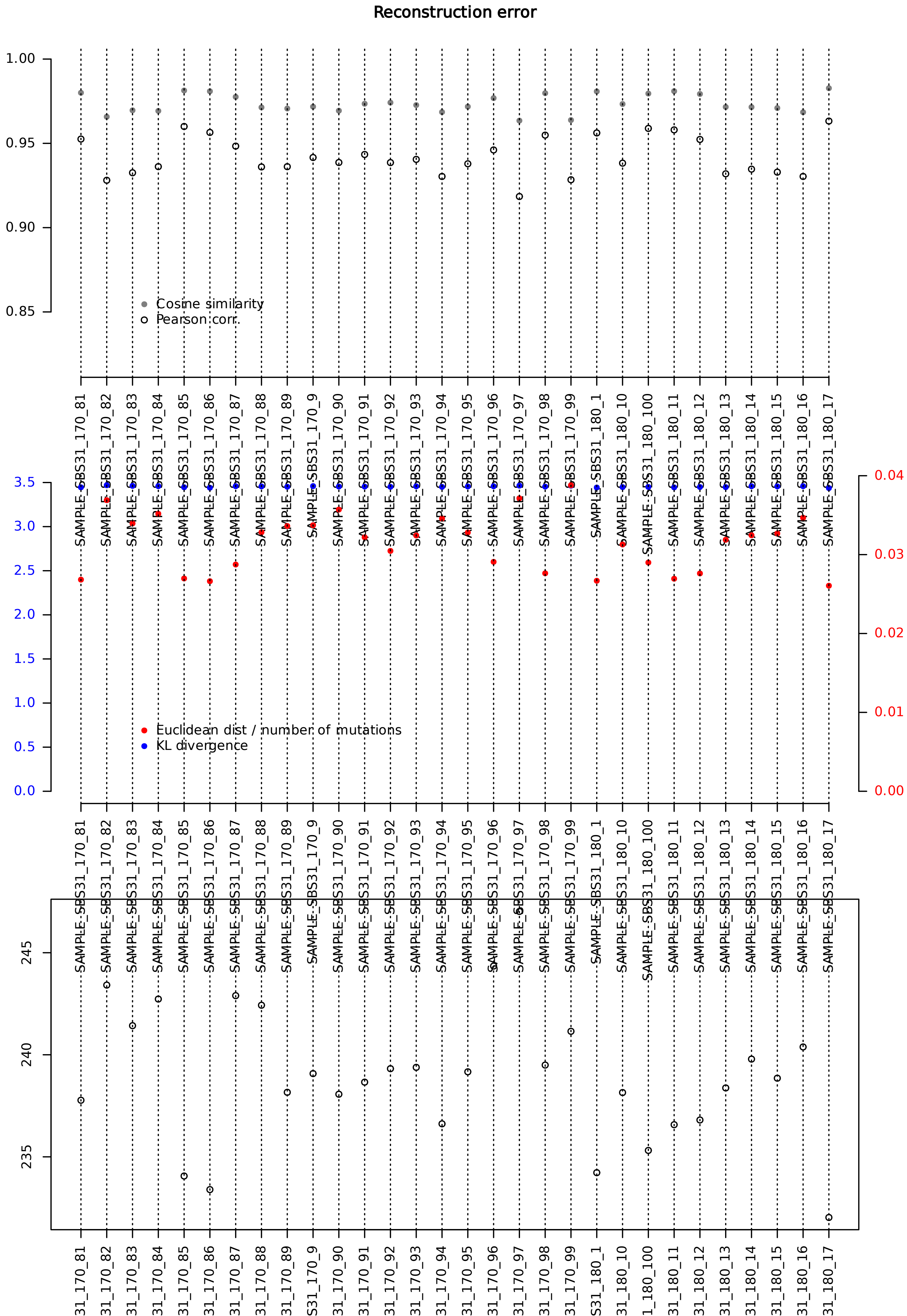
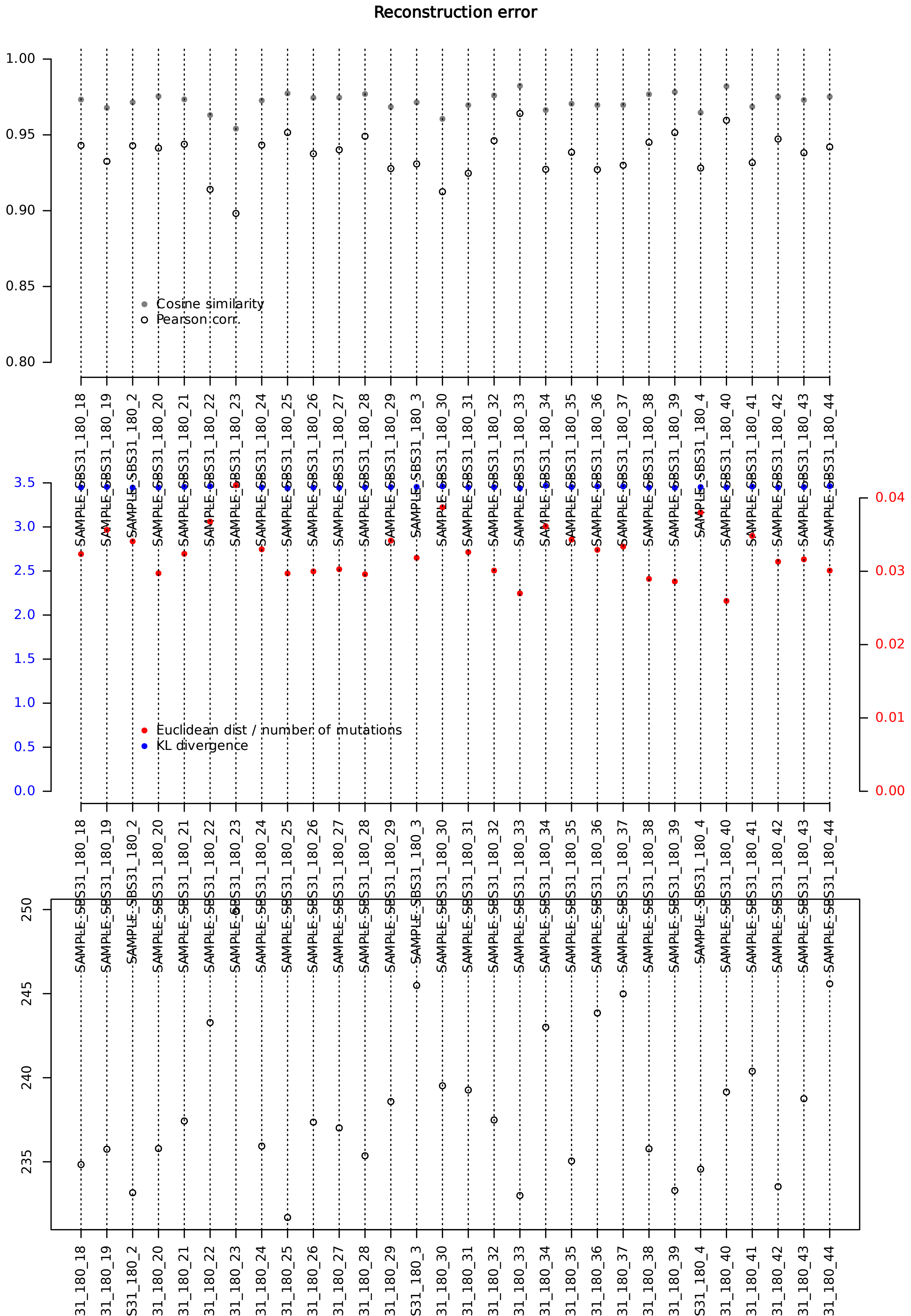
31_170_49
S31_170_5
31_170_50
31_170_51
31_170_52
31_170_53


Reconstruction error


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
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
SAMPLE-SBS31_170_95
SAMPLE-SBS31_170_96
SAMPLE-SBS31_170_97
SAMPLE-SBS31_170_98
SAMPLE-SBS31_170_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
SAMPLE-SBS31_180_16
SAMPLE-SBS31_180_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
245
240
235


Reconstruction error
1.00
0.95
0.90
0.85
0.80
● Cosine similarity
○ Pearson corr.
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
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SAMPLE-SBS31_180_28
SAMPLE-SBS31_180_29
SAMPLE-SBS31_180_3
SAMPLE-SBS31_180_30
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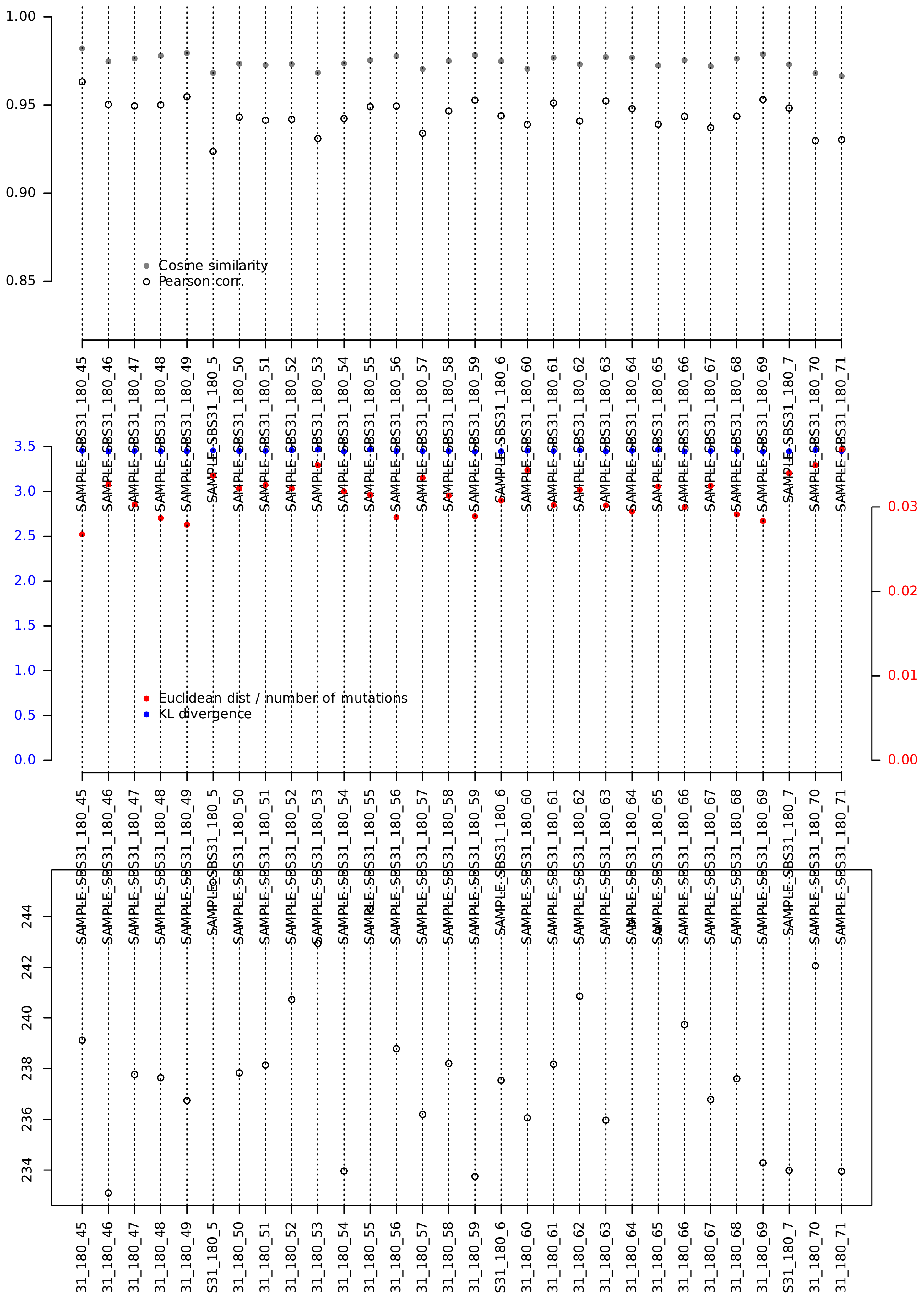
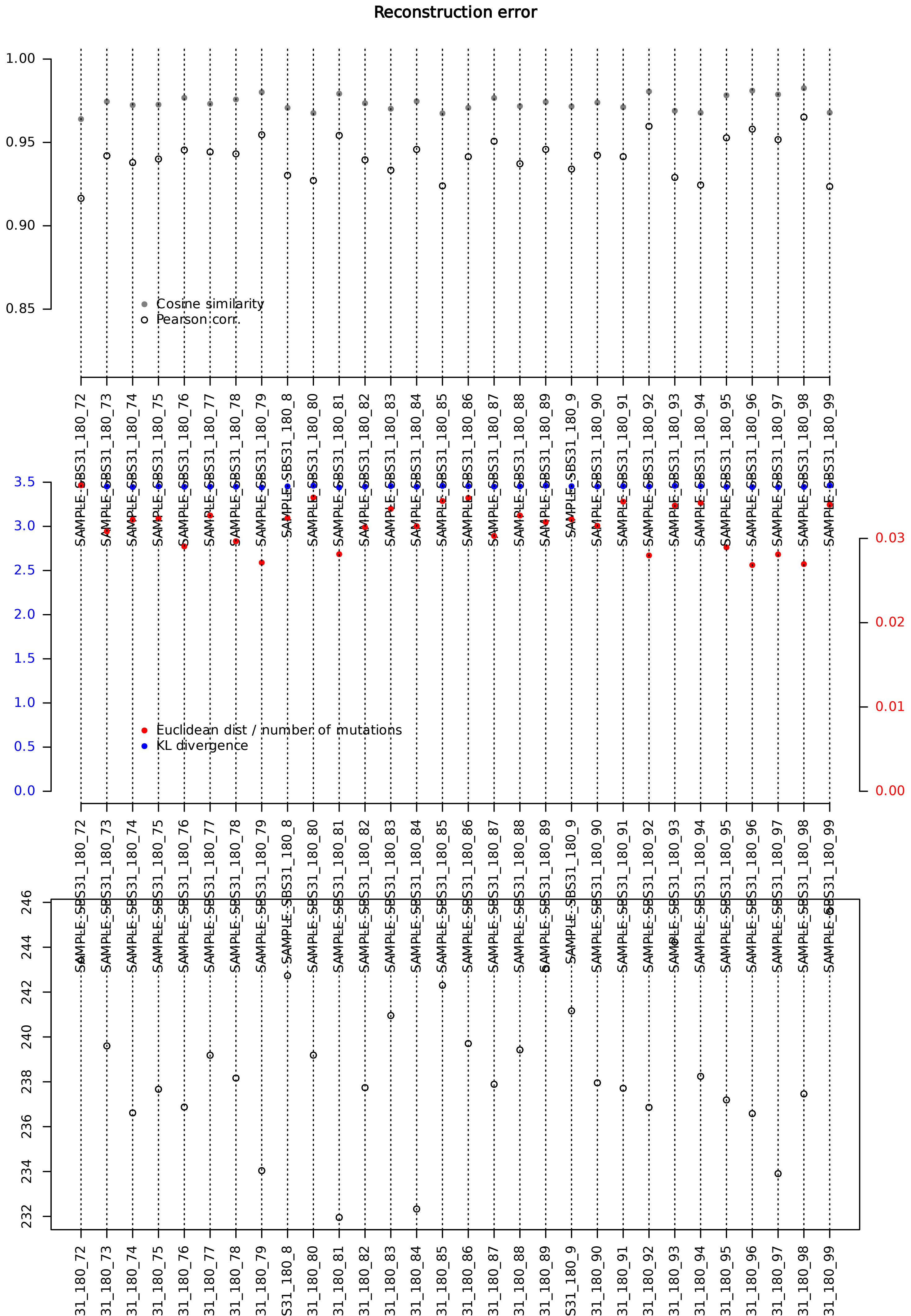
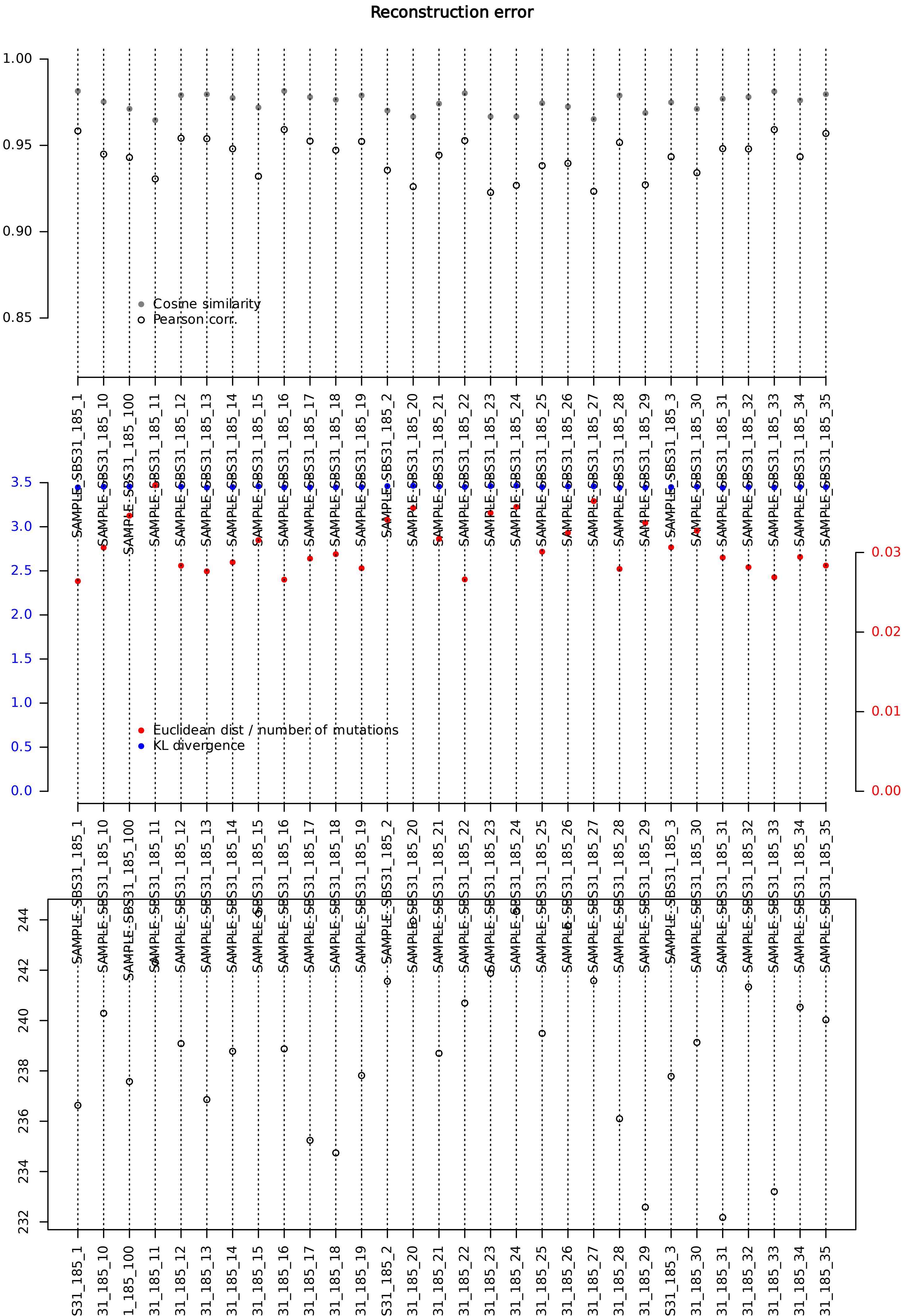
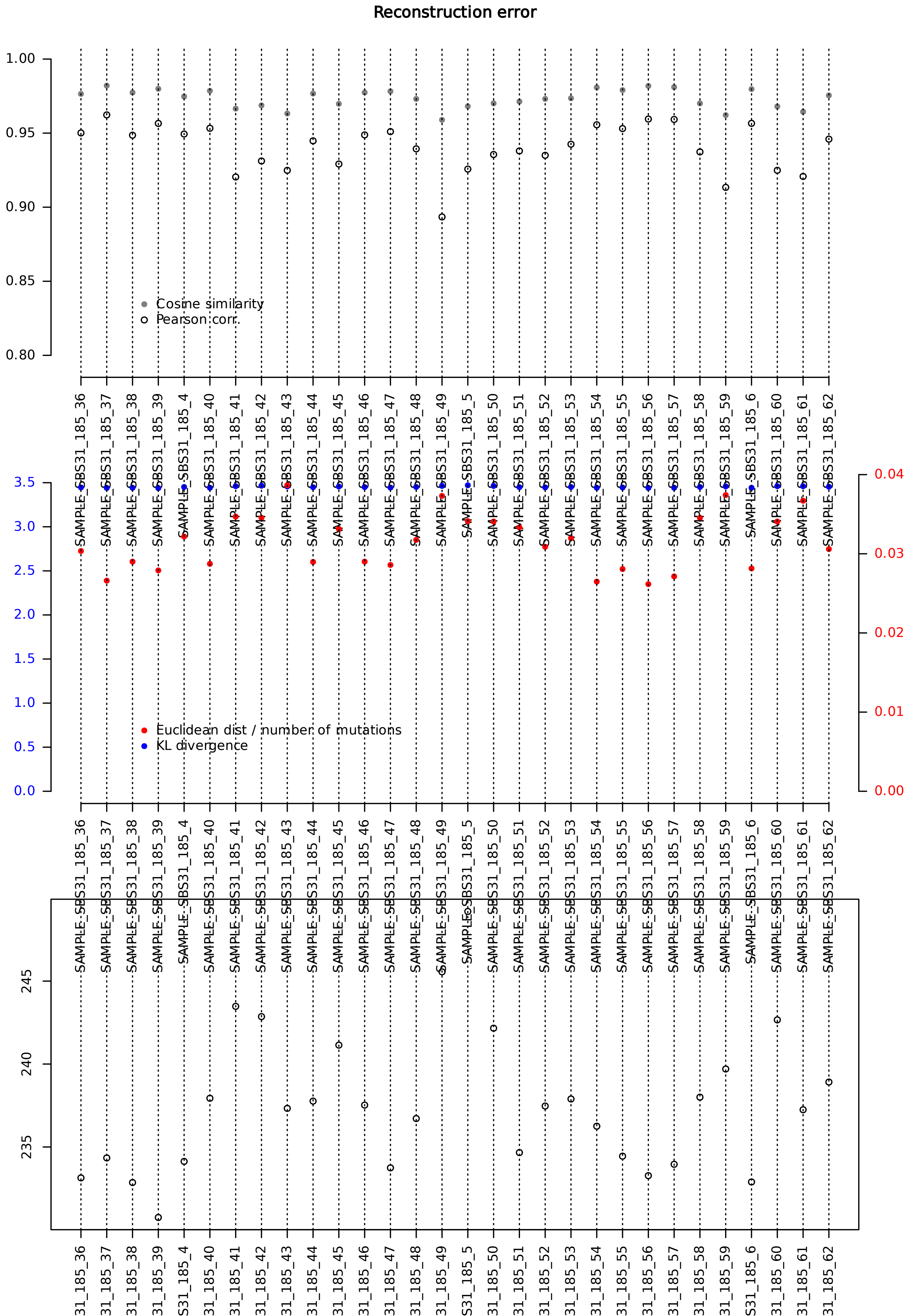
SAMPLE-SBS31_180_32
SAMPLE-SBS31_180_33
SAMPLE-SBS31_180_34
SAMPLE-SBS31_180_35
SAMPLE-SBS31_180_36
SAMPLE-SBS31_180_37
SAMPLE-SBS31_180_38
SAMPLE-SBS31_180_39
SAMPLE-SBS31_180_4
SAMPLE-SBS31_180_40
SAMPLE-SBS31_180_41
SAMPLE-SBS31_180_42
SAMPLE-SBS31_180_43
SAMPLE-SBS31_180_44
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
● Euclidean dist / number of mutations
● KL divergence
250
245
240
235

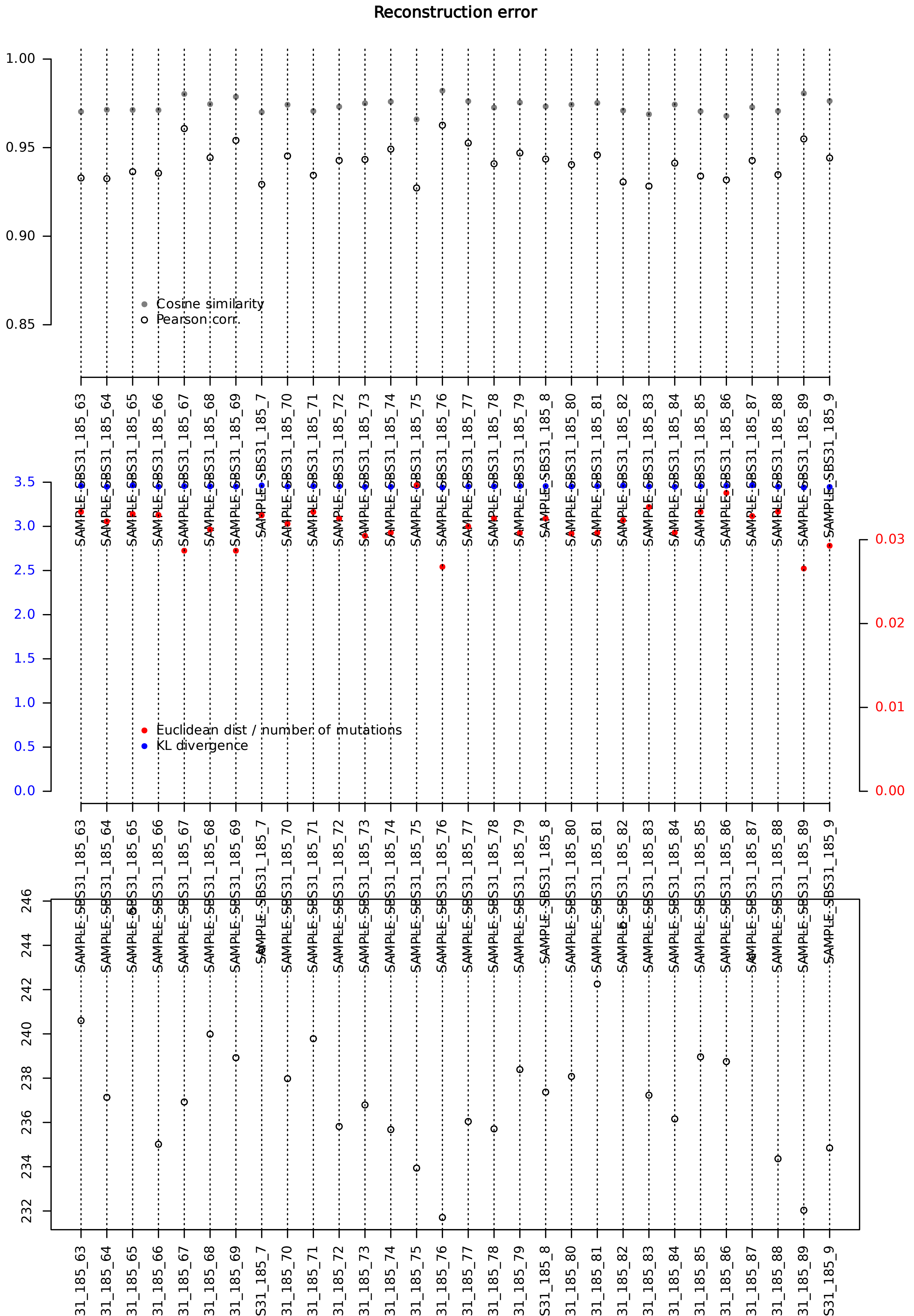
Reconstruction error

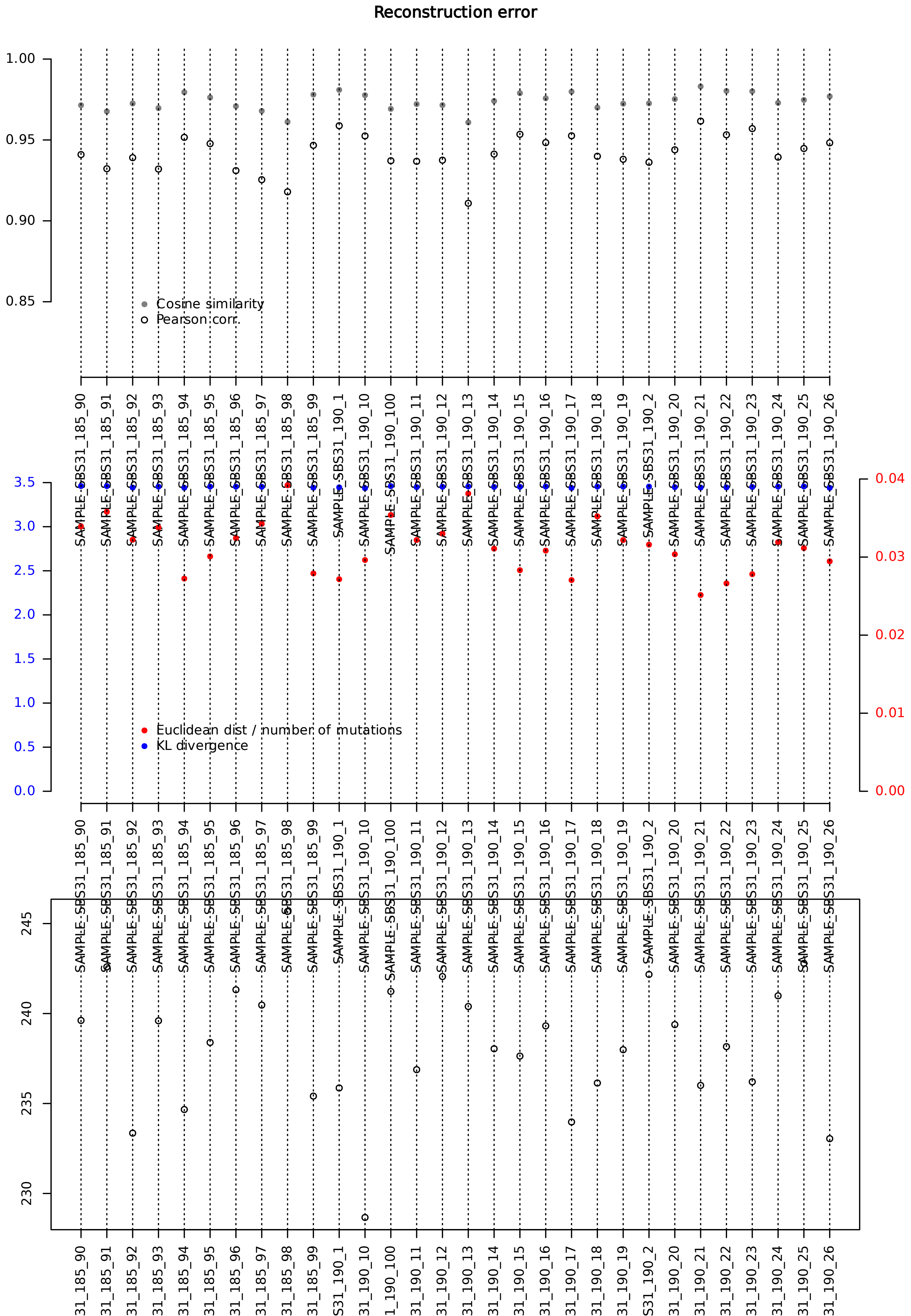


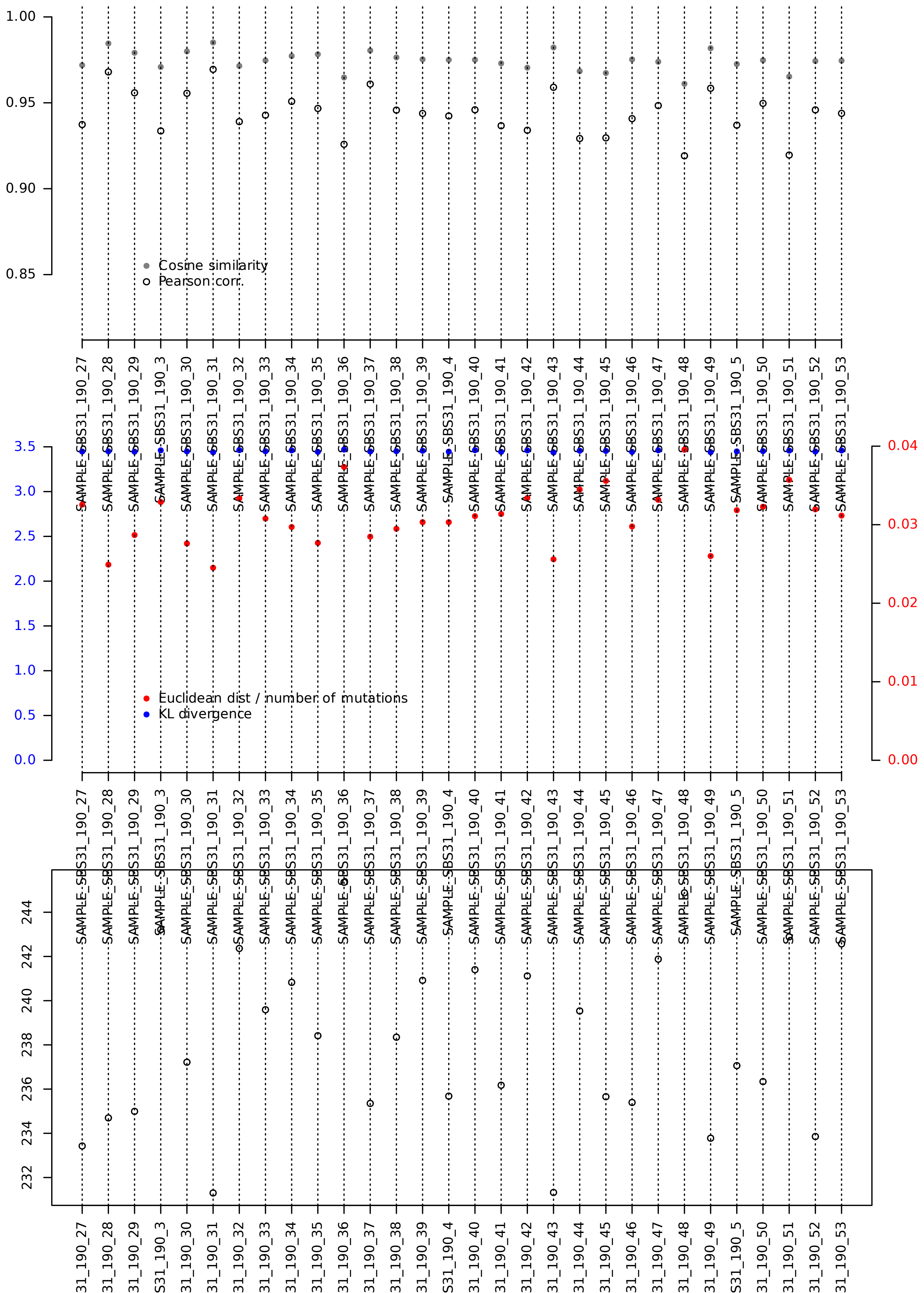

Reconstruction error

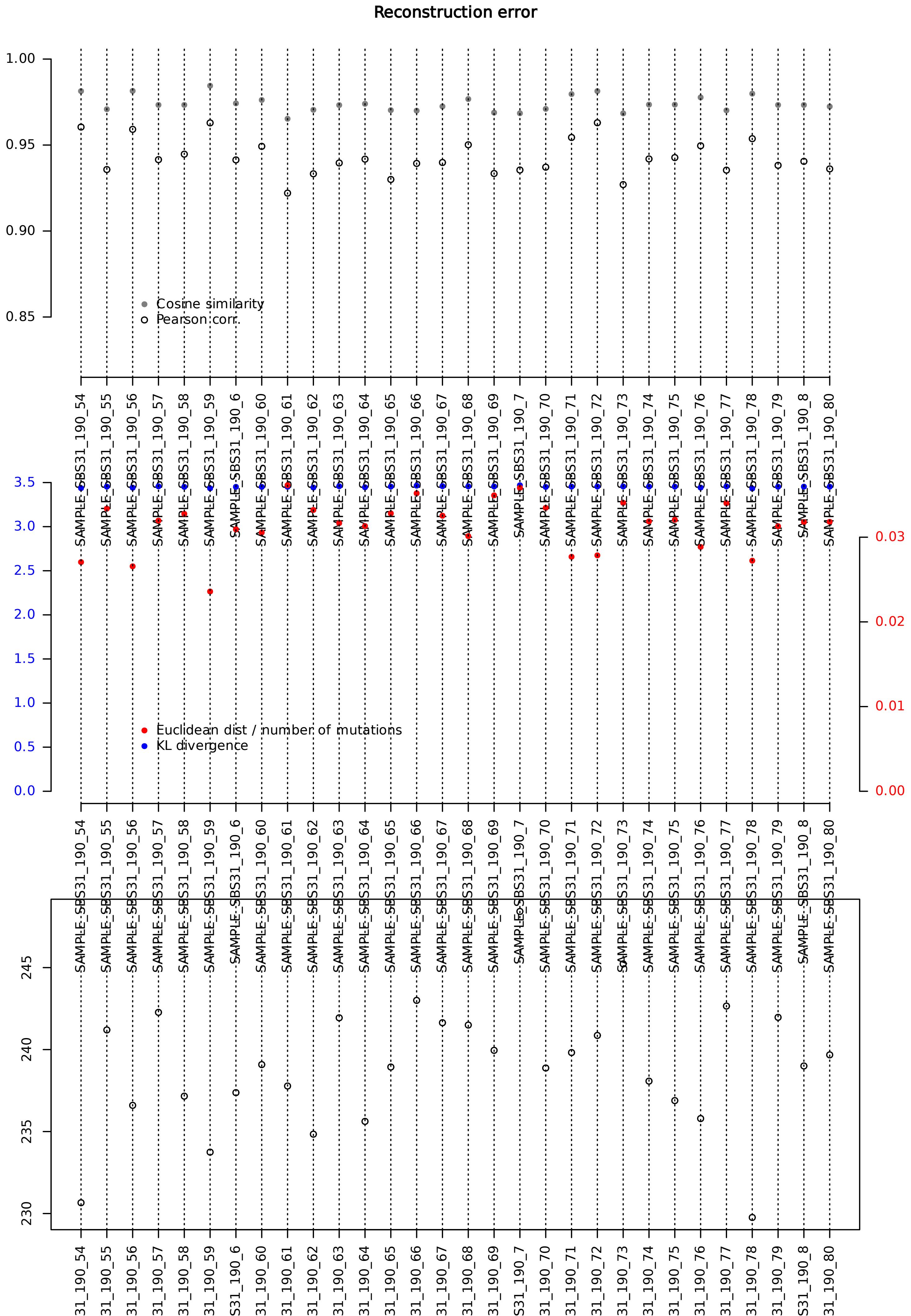

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
SAMPLE_SBS31_185_1
SAMPLE_SBS31_185_10
SAMPLE_SBS31_185_100
SAMPLE_SBS31_185_11
SAMPLE_SBS31_185_12
SAMPLE_SBS31_185_13
SAMPLE_SBS31_185_14
SAMPLE_SBS31_185_15
SAMPLE_SBS31_185_16
SAMPLE_SBS31_185_17
SAMPLE_SBS31_185_18
SAMPLE_SBS31_185_19
SAMPLE_SBS31_185_2
SAMPLE_SBS31_185_20
SAMPLE_SBS31_185_21
SAMPLE_SBS31_185_22
SAMPLE_SBS31_185_23
SAMPLE_SBS31_185_24
SAMPLE_SBS31_185_25
SAMPLE_SBS31_185_26
SAMPLE_SBS31_185_27
SAMPLE_SBS31_185_28
SAMPLE_SBS31_185_29
SAMPLE_SBS31_185_3
SAMPLE_SBS31_185_30
SAMPLE_SBS31_185_31
SAMPLE_SBS31_185_32
SAMPLE_SBS31_185_33
SAMPLE_SBS31_185_34
SAMPLE_SBS31_185_35
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
244
242
240
238
236
234
232

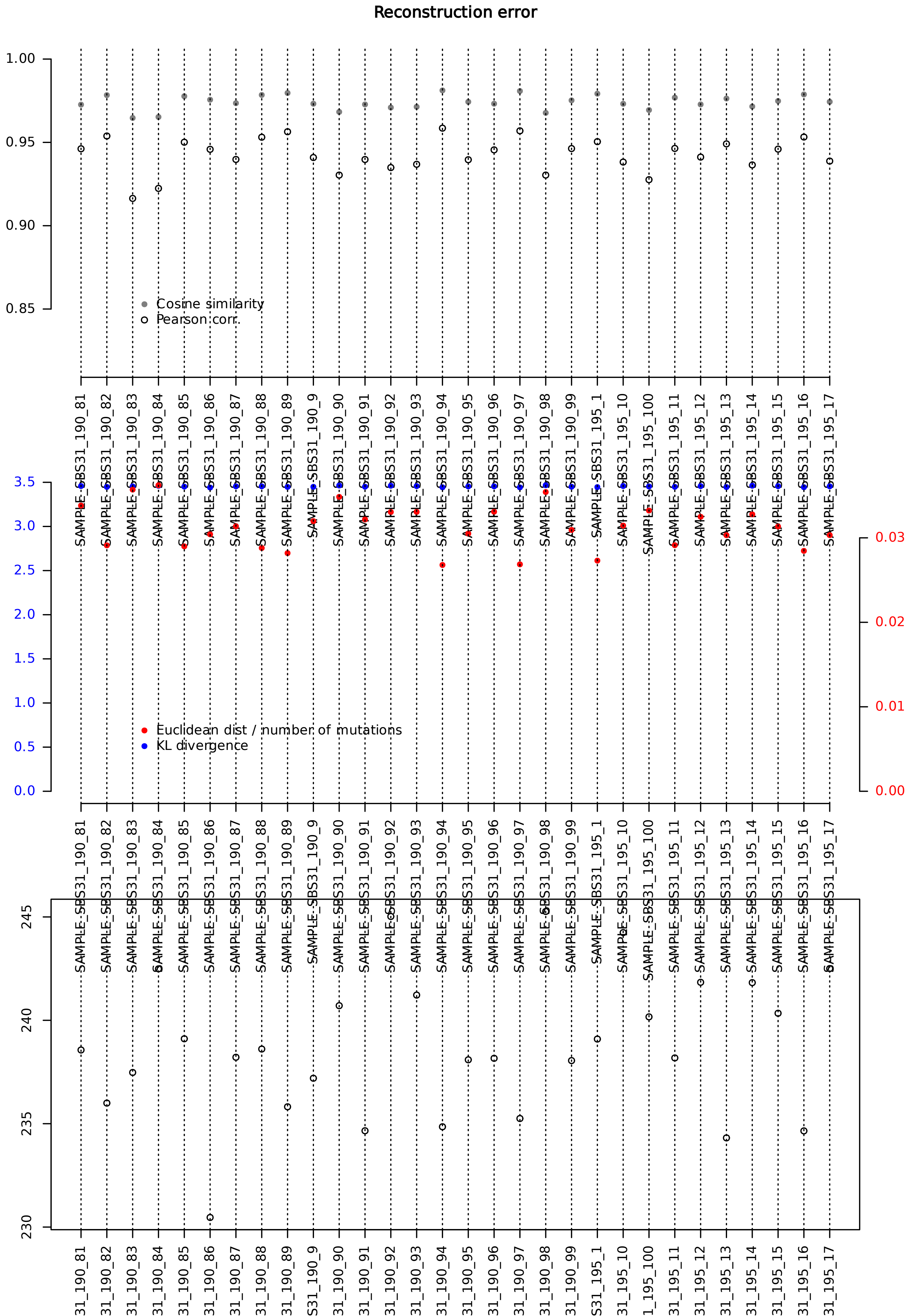

Reconstruction error
1.00
0.95
0.90
0.85
0.80
● Cosine similarity
○ Pearson corr.
SAMPLE-SBS31_185_36
SAMPLE-SBS31_185_37
SAMPLE-SBS31_185_38
SAMPLE-SBS31_185_39
SAMPLE-SBS31_185_4
SAMPLE-SBS31_185_40
SAMPLE-SBS31_185_41
SAMPLE-SBS31_185_42
SAMPLE-SBS31_185_43
SAMPLE-SBS31_185_44
SAMPLE-SBS31_185_45
SAMPLE-SBS31_185_46
SAMPLE-SBS31_185_47
SAMPLE-SBS31_185_48
SAMPLE-SBS31_185_49
SAMPLE-SBS31_185_5
SAMPLE-SBS31_185_50
SAMPLE-SBS31_185_51
SAMPLE-SBS31_185_52
SAMPLE-SBS31_185_53
SAMPLE-SBS31_185_54
SAMPLE-SBS31_185_55
SAMPLE-SBS31_185_56
SAMPLE-SBS31_185_57
SAMPLE-SBS31_185_58
SAMPLE-SBS31_185_59
SAMPLE-SBS31_185_6
SAMPLE-SBS31_185_60
SAMPLE-SBS31_185_61
SAMPLE-SBS31_185_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
245
240
235

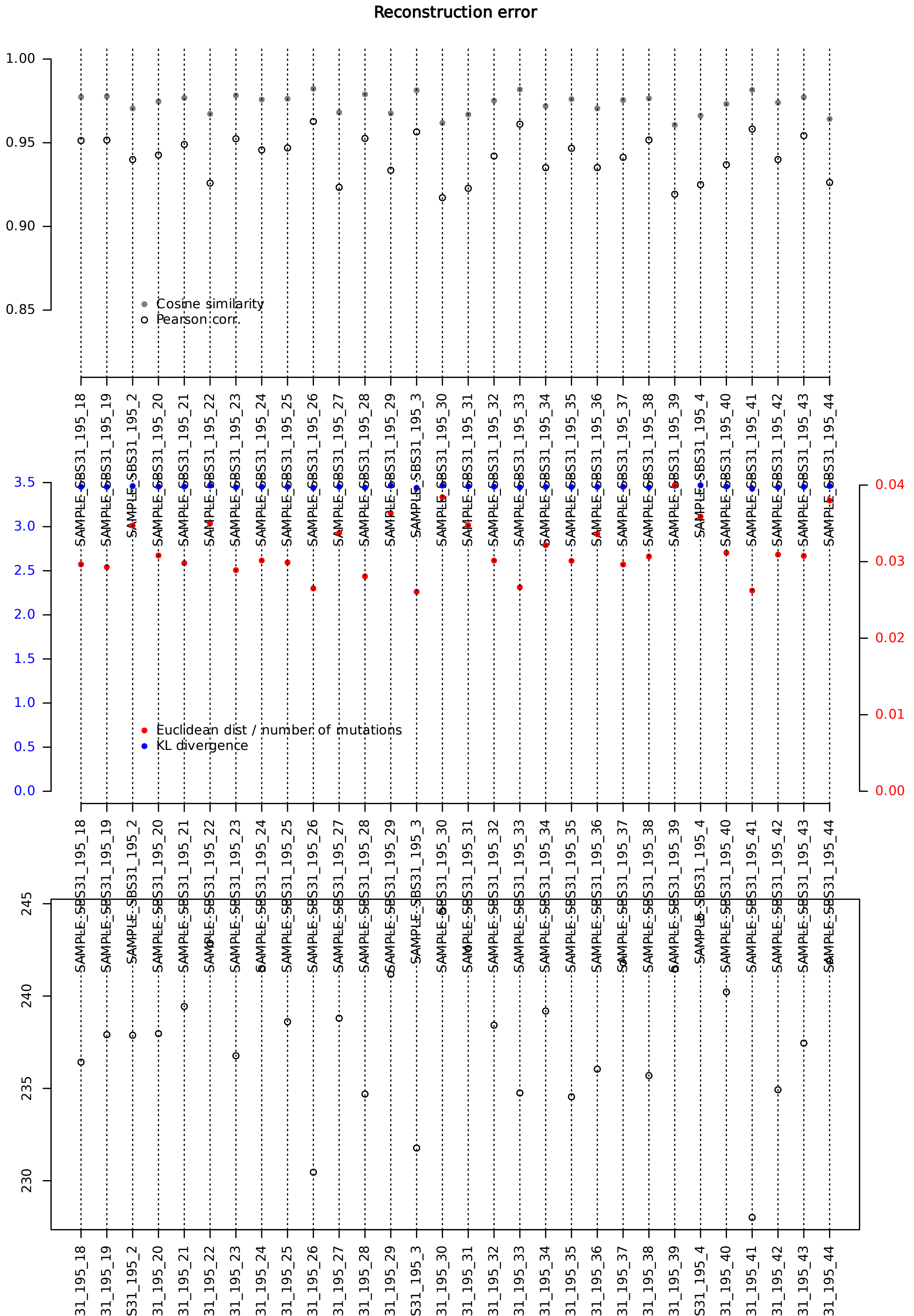

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
246
244
242
240
238
236
234
232
SAMPLE-SBS31_185_63
SAMPLE-SBS31_185_64
SAMPLE-SBS31_185_65
SAMPLE-SBS31_185_66
SAMPLE-SBS31_185_67
SAMPLE-SBS31_185_68
SAMPLE-SBS31_185_69
SAMPLE-SBS31_185_7
SAMPLE-SBS31_185_70
SAMPLE-SBS31_185_71
SAMPLE-SBS31_185_72
SAMPLE-SBS31_185_73
SAMPLE-SBS31_185_74
SAMPLE-SBS31_185_75
SAMPLE-SBS31_185_76
SAMPLE-SBS31_185_77
SAMPLE-SBS31_185_78
SAMPLE-SBS31_185_79
SAMPLE-SBS31_185_8
SAMPLE-SBS31_185_80
SAMPLE-SBS31_185_81
SAMPLE-SBS31_185_82
SAMPLE-SBS31_185_83
SAMPLE-SBS31_185_84
SAMPLE-SBS31_185_85
SAMPLE-SBS31_185_86
SAMPLE-SBS31_185_87
SAMPLE-SBS31_185_88
SAMPLE-SBS31_185_89
SAMPLE-SBS31_185_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
245
240
235
230
SAMPLE-SBS31_185_90
SAMPLE-SBS31_185_91
SAMPLE-SBS31_185_92
SAMPLE-SBS31_185_93
SAMPLE-SBS31_185_94
SAMPLE-SBS31_185_95
SAMPLE-SBS31_185_96
SAMPLE-SBS31_185_97
SAMPLE-SBS31_185_98
SAMPLE-SBS31_185_99
SAMPLE-SBS31_190_1
SAMPLE-SBS31_190_10
SAMPLE-SBS31_190_100
SAMPLE-SBS31_190_11
SAMPLE-SBS31_190_12
SAMPLE-SBS31_190_13
SAMPLE-SBS31_190_14
SAMPLE-SBS31_190_15
SAMPLE-SBS31_190_16
SAMPLE-SBS31_190_17
SAMPLE-SBS31_190_18
SAMPLE-SBS31_190_19
SAMPLE-SBS31_190_2
SAMPLE-SBS31_190_20
SAMPLE-SBS31_190_21
SAMPLE-SBS31_190_22
SAMPLE-SBS31_190_23
SAMPLE-SBS31_190_24
SAMPLE-SBS31_190_25
SAMPLE-SBS31_190_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
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
245
240
235
230
SAMPLE-SBS31_190_54
SAMPLE-SBS31_190_55
SAMPLE-SBS31_190_56
SAMPLE-SBS31_190_57
SAMPLE-SBS31_190_58
SAMPLE-SBS31_190_59
SAMPLE-SBS31_190_6
SAMPLE-SBS31_190_60
SAMPLE-SBS31_190_61
SAMPLE-SBS31_190_62
SAMPLE-SBS31_190_63
SAMPLE-SBS31_190_64
SAMPLE-SBS31_190_65
SAMPLE-SBS31_190_66
SAMPLE-SBS31_190_67
SAMPLE-SBS31_190_68
SAMPLE-SBS31_190_69
SAMPLE-SBS31_190_7
SAMPLE-SBS31_190_70
SAMPLE-SBS31_190_71
SAMPLE-SBS31_190_72
SAMPLE-SBS31_190_73
SAMPLE-SBS31_190_74
SAMPLE-SBS31_190_75
SAMPLE-SBS31_190_76
SAMPLE-SBS31_190_77
SAMPLE-SBS31_190_78
SAMPLE-SBS31_190_79
SAMPLE-SBS31_190_8
SAMPLE-SBS31_190_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
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
245
240
235
230
SAMPLE-SBS31_190_81
SAMPLE-SBS31_190_82
SAMPLE-SBS31_190_83
SAMPLE-SBS31_190_84
SAMPLE-SBS31_190_85
SAMPLE-SBS31_190_86
SAMPLE-SBS31_190_87
SAMPLE-SBS31_190_88
SAMPLE-SBS31_190_89
SAMPLE-SBS31_190_9
SAMPLE-SBS31_190_90
SAMPLE-SBS31_190_91
SAMPLE-SBS31_190_92
SAMPLE-SBS31_190_93
SAMPLE-SBS31_190_94
SAMPLE-SBS31_190_95
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


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
245
240
235
230
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
SAMPLE-SBS31_195_27
SAMPLE-SBS31_195_28
SAMPLE-SBS31_195_29
SAMPLE-SBS31_195_3
SAMPLE-SBS31_195_30
SAMPLE-SBS31_195_31
SAMPLE-SBS31_195_32
SAMPLE-SBS31_195_33
SAMPLE-SBS31_195_34
SAMPLE-SBS31_195_35
SAMPLE-SBS31_195_36
SAMPLE-SBS31_195_37
SAMPLE-SBS31_195_38
SAMPLE-SBS31_195_39
SAMPLE-SBS31_195_4
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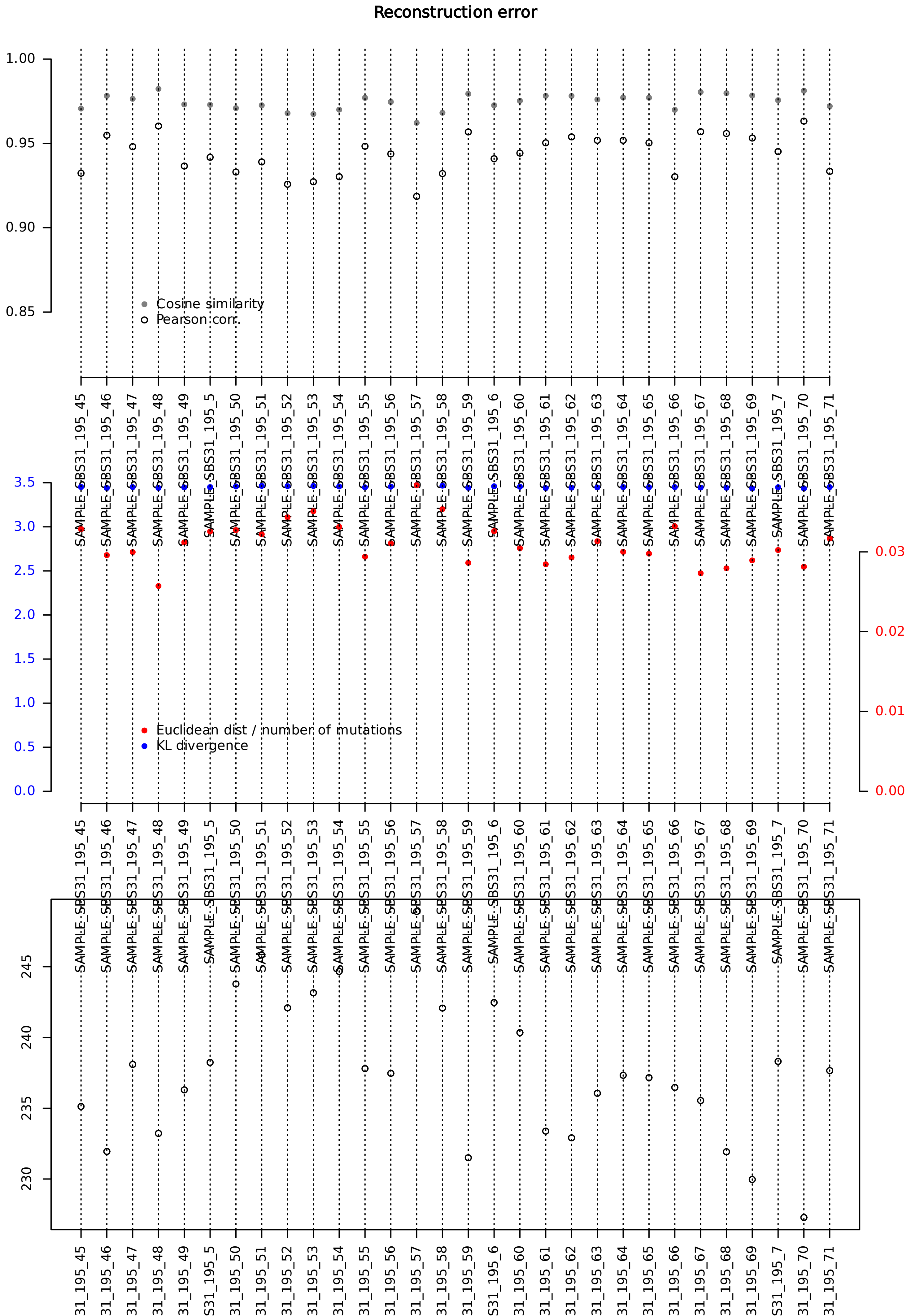
SAMPLE-SBS31_195_43
SAMPLE-SBS31_195_44


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
SAMPLE-SBS31_195_45
SAMPLE-SBS31_195_46
SAMPLE-SBS31_195_47
SAMPLE-SBS31_195_48
SAMPLE-SBS31_195_49
SAMPLE-SBS31_195_5
SAMPLE-SBS31_195_50
SAMPLE-SBS31_195_51
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SAMPLE-SBS31_195_53
SAMPLE-SBS31_195_54
SAMPLE-SBS31_195_55
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SAMPLE-SBS31_195_58
SAMPLE-SBS31_195_59
SAMPLE-SBS31_195_6
SAMPLE-SBS31_195_60
SAMPLE-SBS31_195_61
SAMPLE-SBS31_195_62
SAMPLE-SBS31_195_63
SAMPLE-SBS31_195_64
SAMPLE-SBS31_195_65
SAMPLE-SBS31_195_66
SAMPLE-SBS31_195_67
SAMPLE-SBS31_195_68
SAMPLE-SBS31_195_69
SAMPLE-SBS31_195_7
SAMPLE-SBS31_195_70
SAMPLE-SBS31_195_71
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
245
240
235
230
31_195_45
31_195_46
31_195_47
31_195_48
31_195_49
S31_195_5
31_195_50
31_195_51
31_195_52
31_195_53
31_195_54
31_195_55
31_195_56
31_195_57
31_195_58
31_195_59
S31_195_6
31_195_60
31_195_61
31_195_62
31_195_63
31_195_64
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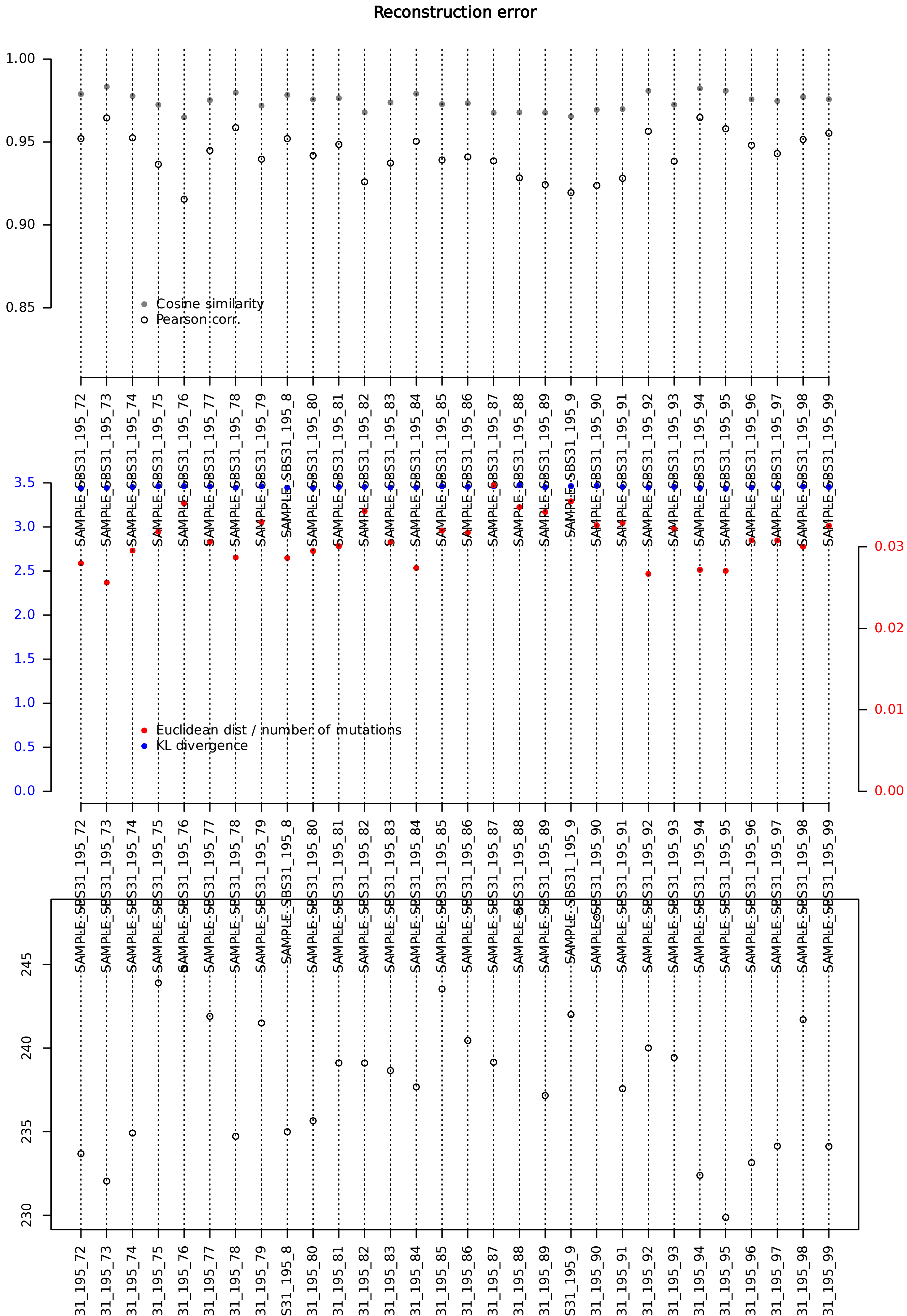
31_195_67
31_195_68
31_195_69
S31_195_7
31_195_70
31_195_71


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
SAMPLE-SBS31_195_72
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SAMPLE-SBS31_195_74
SAMPLE-SBS31_195_75
SAMPLE-SBS31_195_76
SAMPLE-SBS31_195_77
SAMPLE-SBS31_195_78
SAMPLE-SBS31_195_79
SAMPLE-SBS31_195_8
SAMPLE-SBS31_195_80
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
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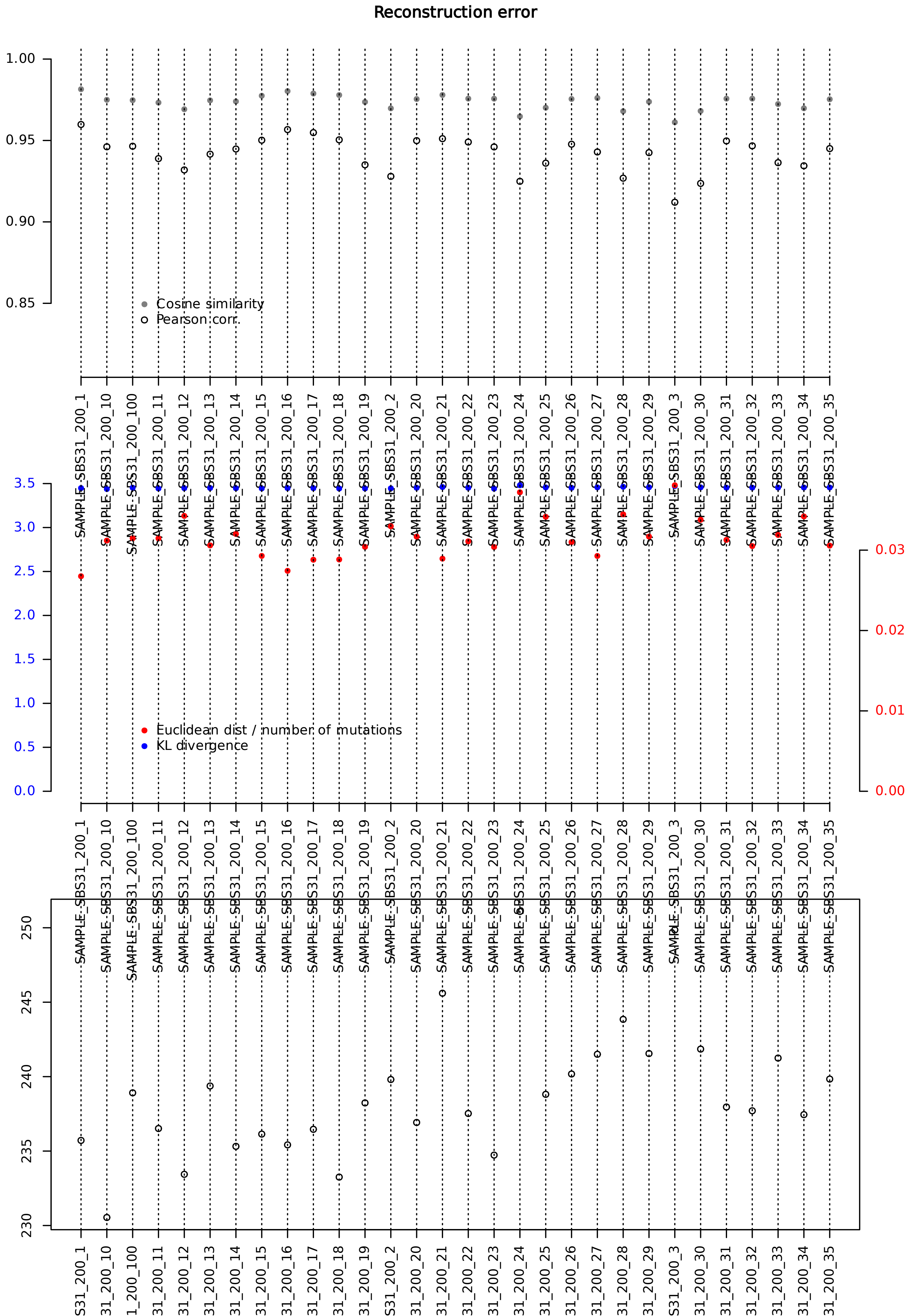
SAMPLE-SBS31_195_94
SAMPLE-SBS31_195_95
SAMPLE-SBS31_195_96
SAMPLE-SBS31_195_97
SAMPLE-SBS31_195_98
SAMPLE-SBS31_195_99
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
245
240
235
230


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
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
250
245
240
235
230
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
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SAMPLE-SBS31_200_23
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SAMPLE-SBS31_200_25
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SAMPLE-SBS31_200_29
SAMPLE-SBS31_200_3
SAMPLE-SBS31_200_30
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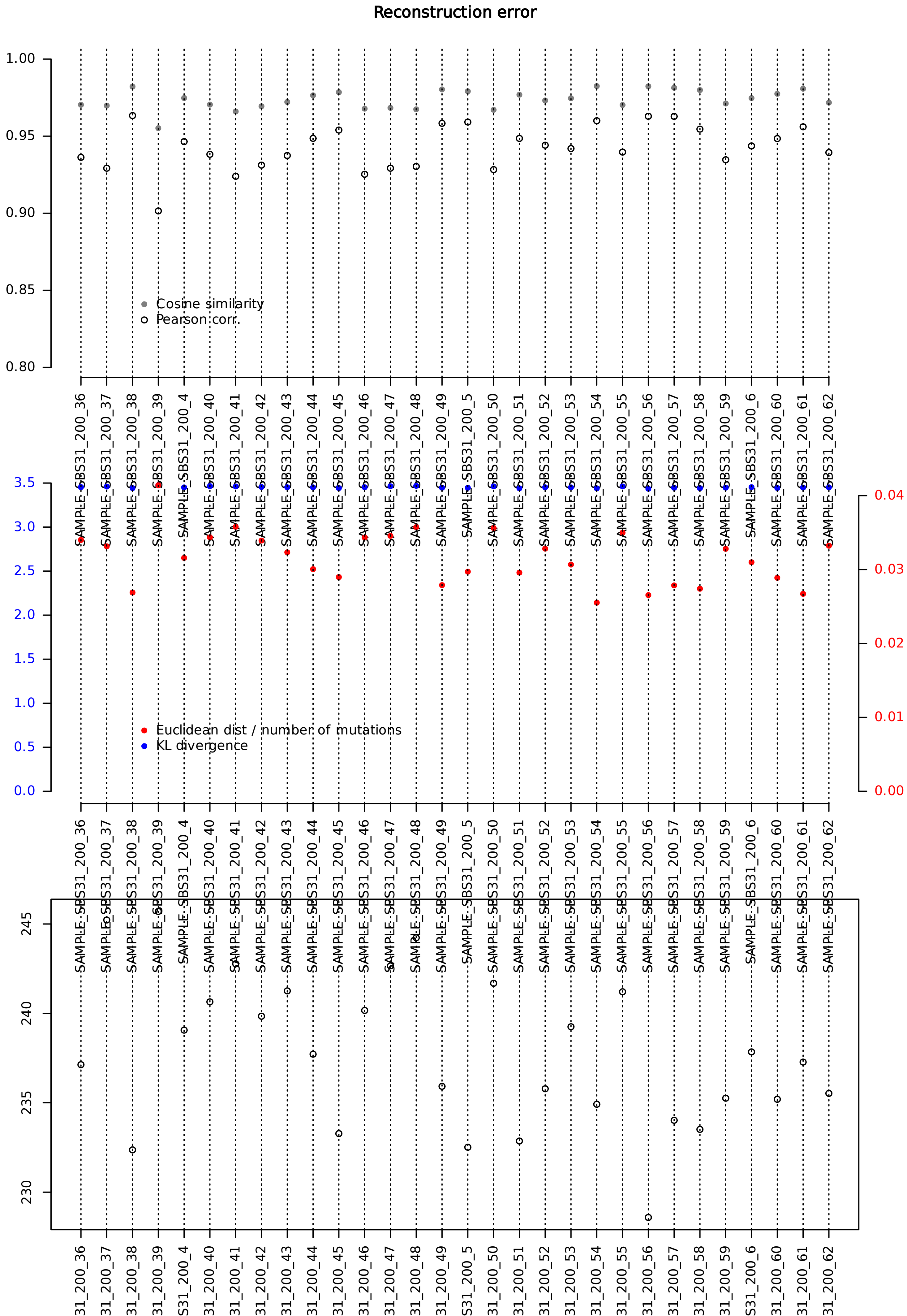
SAMPLE-SBS31_200_33
SAMPLE-SBS31_200_34
SAMPLE-SBS31_200_35


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
245
240
235
230
SAMPLE-SBS31_200_36
SAMPLE-SBS31_200_37
SAMPLE-SBS31_200_38
SAMPLE-SBS31_200_39
SAMPLE-SBS31_200_4
SAMPLE-SBS31_200_40
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SAMPLE-SBS31_200_58
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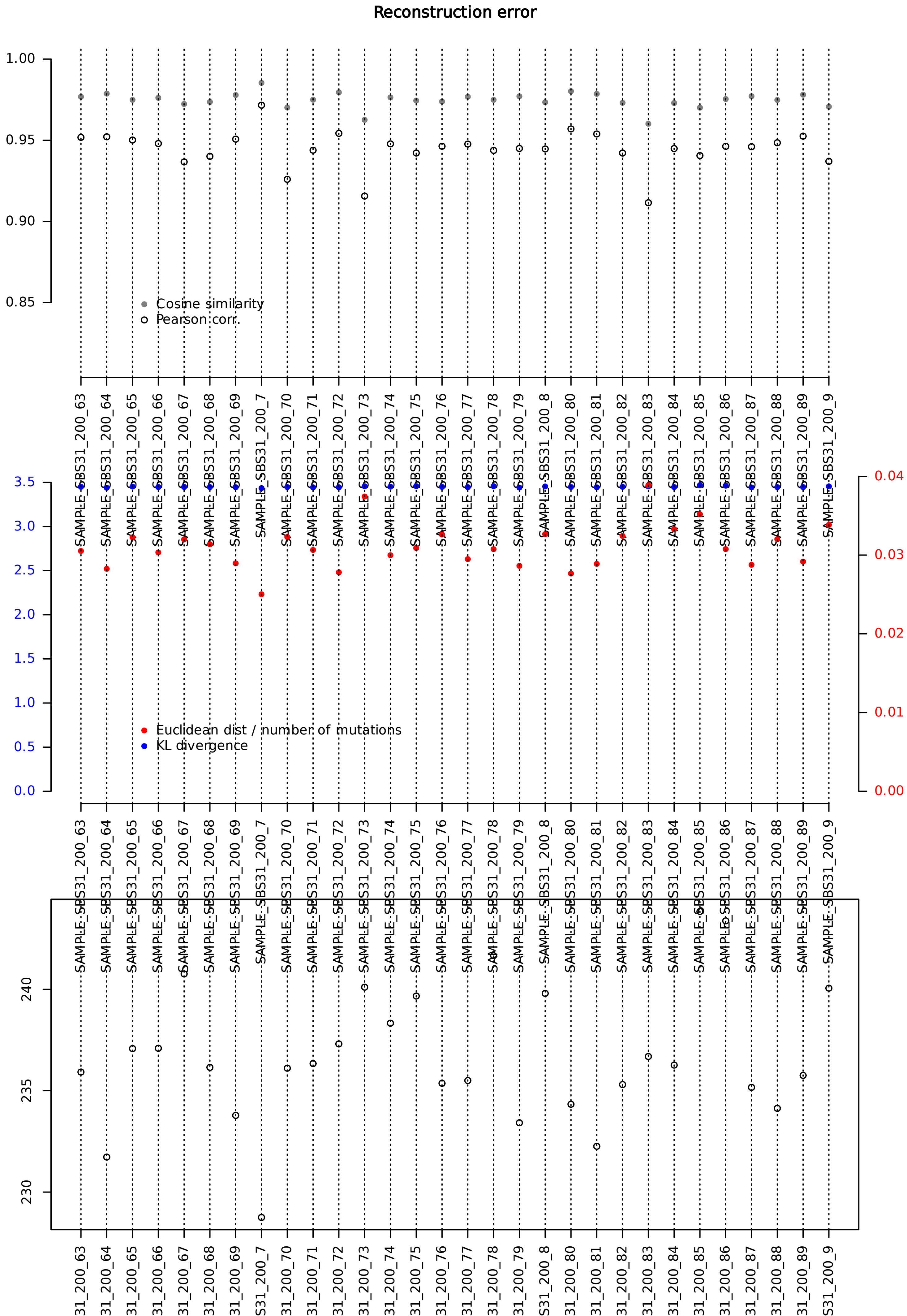
SAMPLE-SBS31_200_60
SAMPLE-SBS31_200_61
SAMPLE-SBS31_200_62



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
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
SAMPLE-SBS31_200_72
SAMPLE-SBS31_200_73
SAMPLE-SBS31_200_74
SAMPLE-SBS31_200_75
SAMPLE-SBS31_200_76
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SAMPLE-SBS31_200_79
SAMPLE-SBS31_200_8
SAMPLE-SBS31_200_80
SAMPLE-SBS31_200_81
SAMPLE-SBS31_200_82
SAMPLE-SBS31_200_83
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SAMPLE-SBS31_200_85
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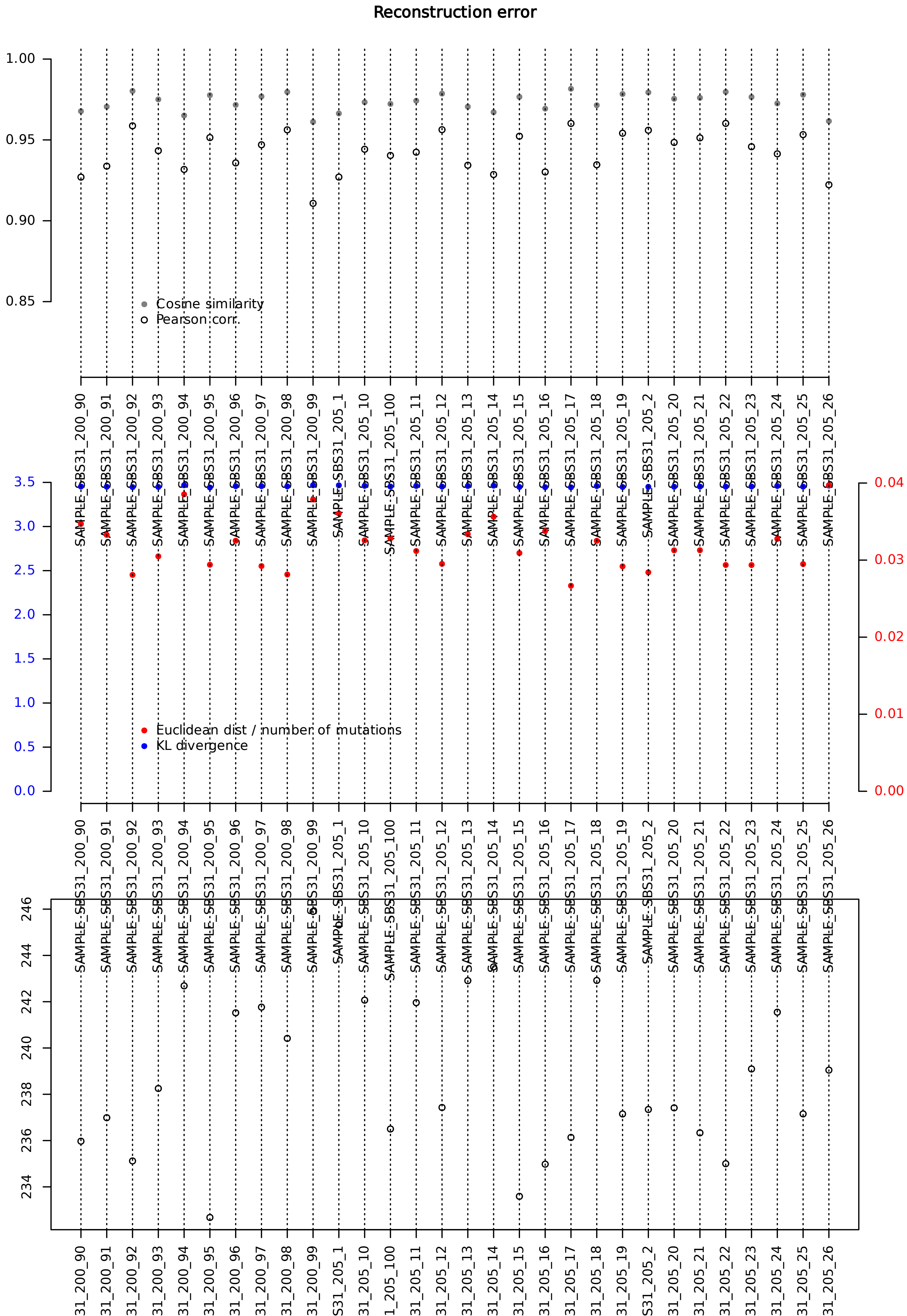
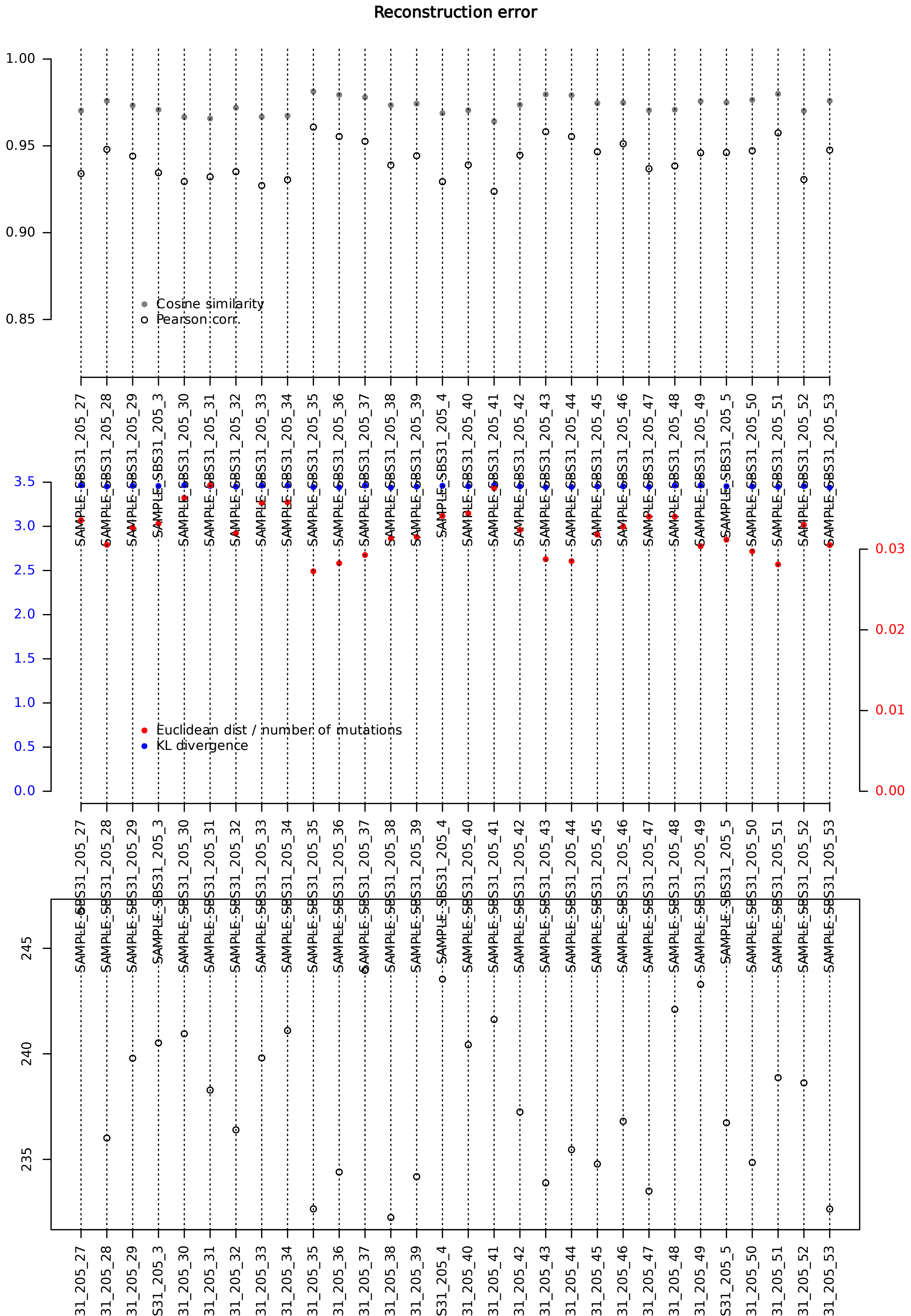
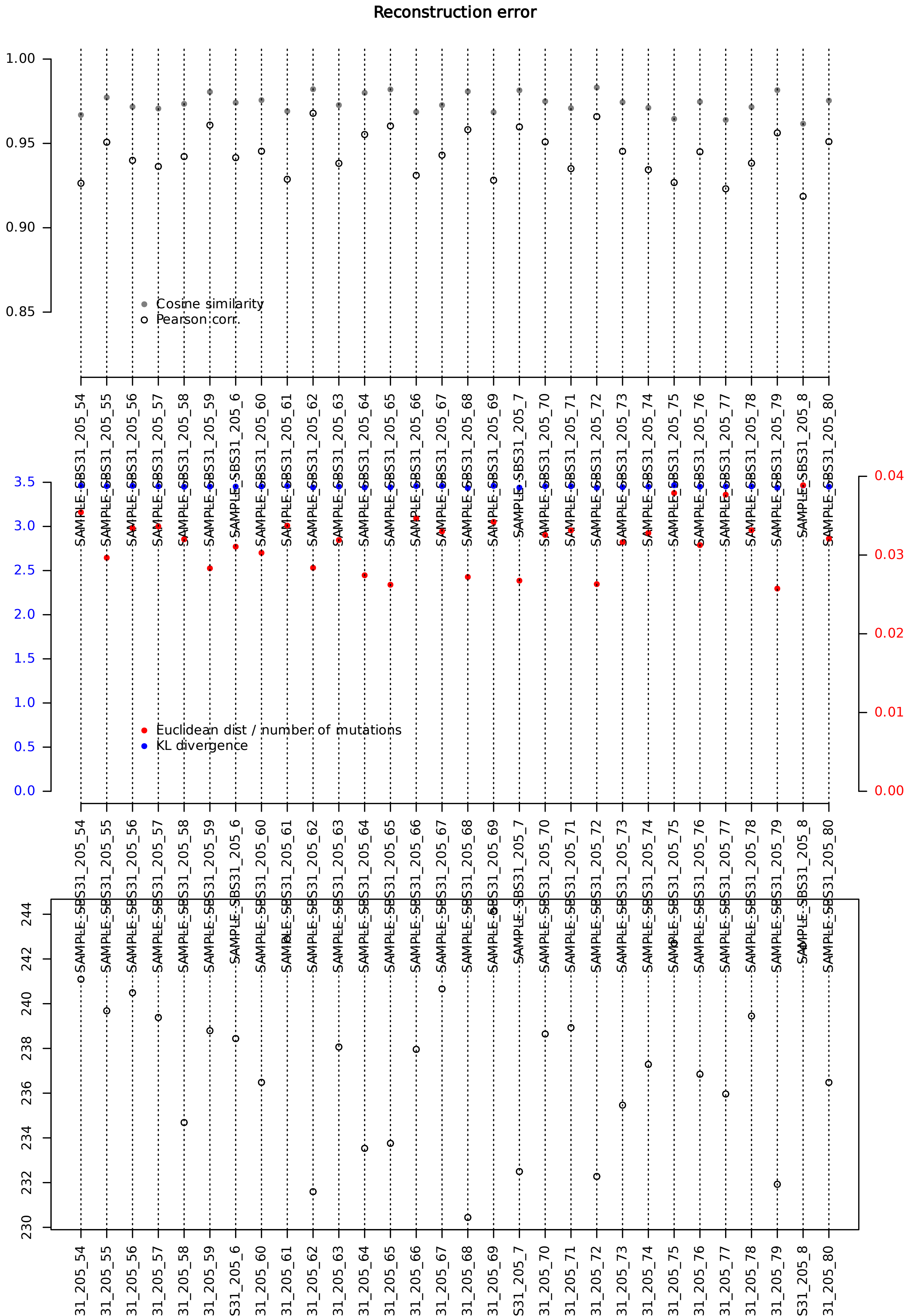
SAMPLE-SBS31_200_87
SAMPLE-SBS31_200_88
SAMPLE-SBS31_200_89
SAMPLE-SBS31_200_9


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
246
244
242
240
238
236
234
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
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


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
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
245
240
235
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
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


Reconstruction error
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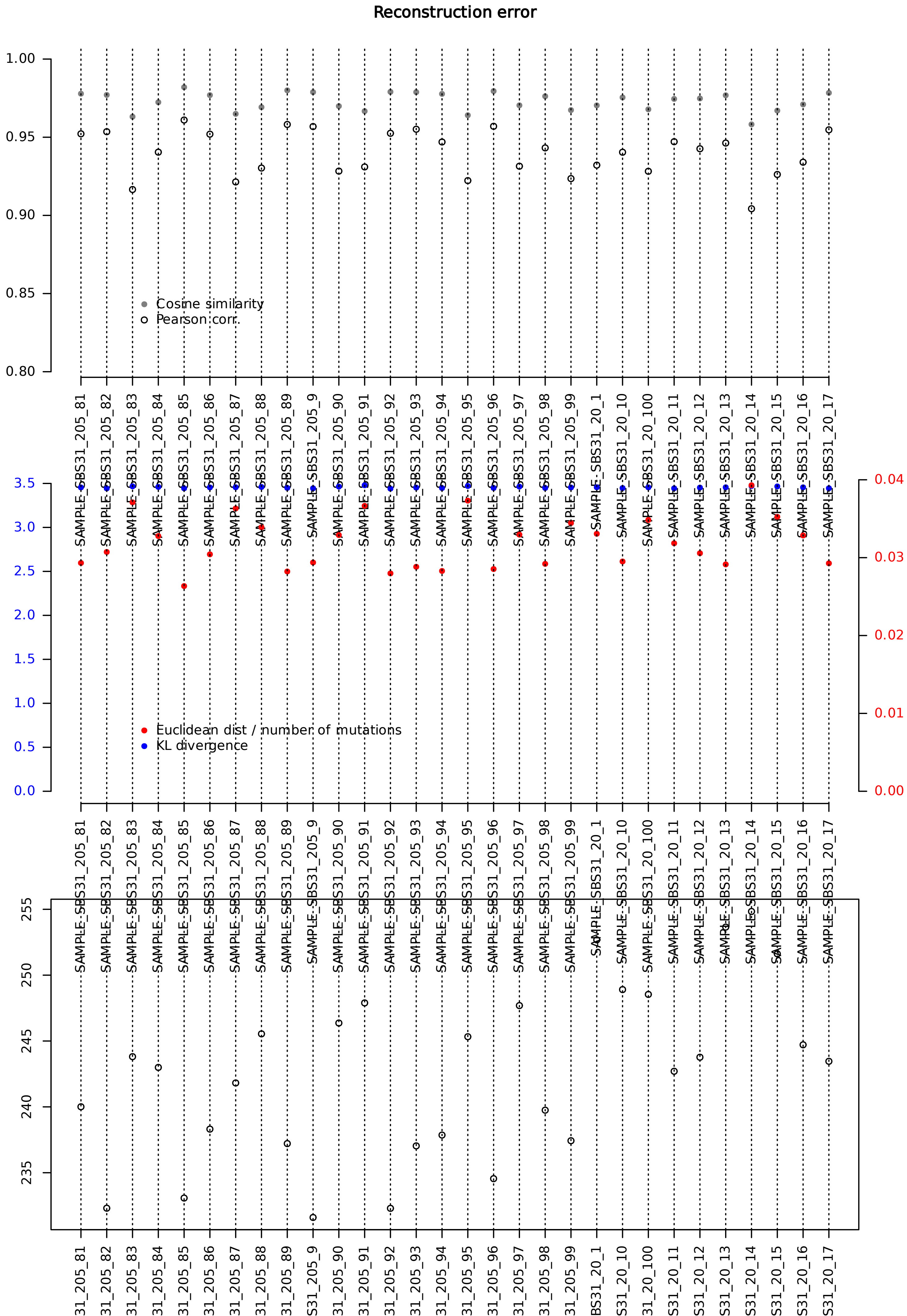
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
244
242
240
238
236
234
232
230
SAMPLE-SBS31_205_54
SAMPLE-SBS31_205_55
SAMPLE-SBS31_205_56
SAMPLE-SBS31_205_57
SAMPLE-SBS31_205_58
SAMPLE-SBS31_205_59
SAMPLE-SBS31_205_6
SAMPLE-SBS31_205_60
SAMPLE-SBS31_205_61
SAMPLE-SBS31_205_62
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


Reconstruction error
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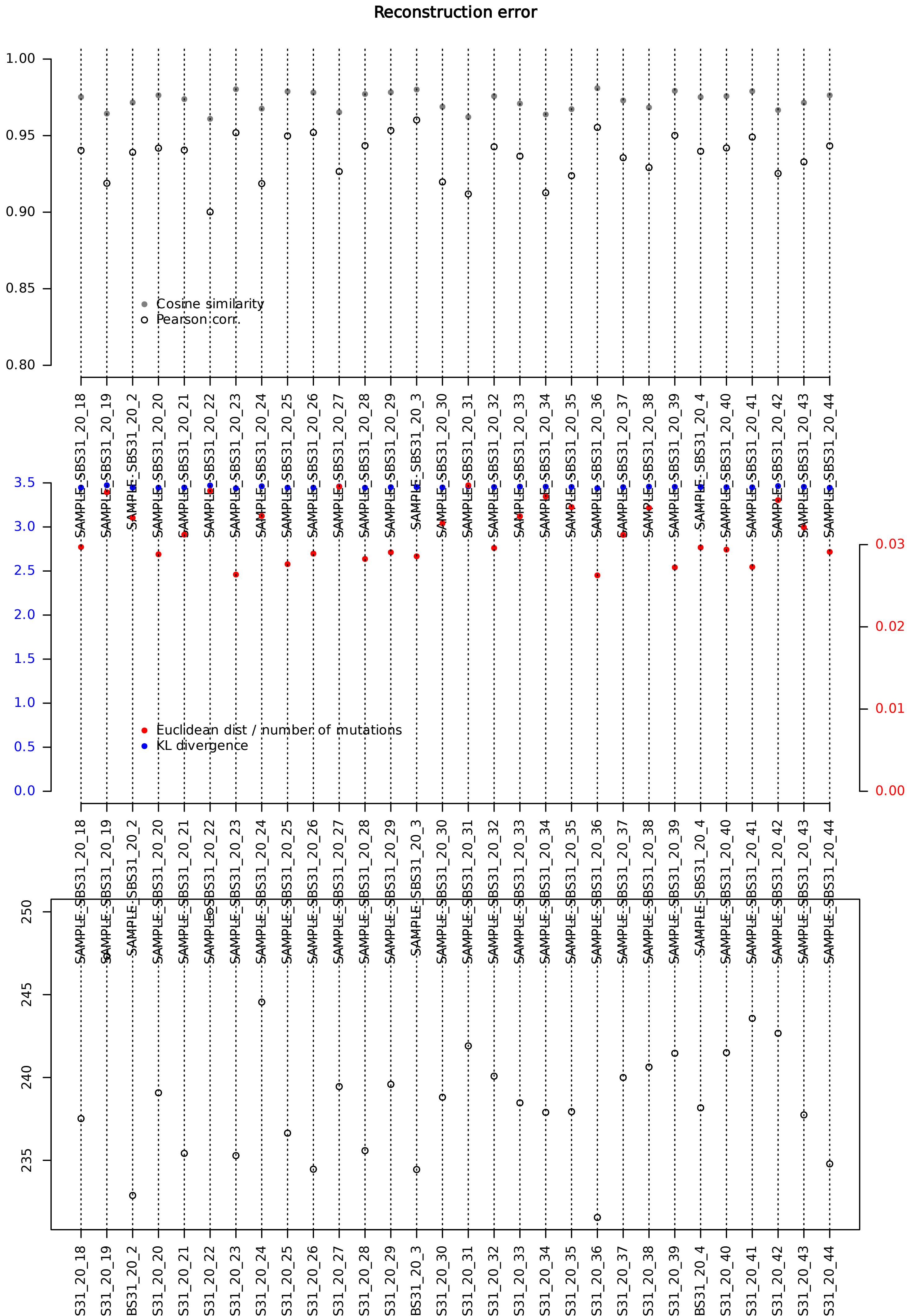
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
255
250
245
240
235
SAMPLE-SBS31_205_81
SAMPLE-SBS31_205_82
SAMPLE-SBS31_205_83
SAMPLE-SBS31_205_84
SAMPLE-SBS31_205_85
SAMPLE-SBS31_205_86
SAMPLE-SBS31_205_87
SAMPLE-SBS31_205_88
SAMPLE-SBS31_205_89
SAMPLE-SBS31_205_9
SAMPLE-SBS31_205_90
SAMPLE-SBS31_205_91
SAMPLE-SBS31_205_92
SAMPLE-SBS31_205_93
SAMPLE-SBS31_205_94
SAMPLE-SBS31_205_95
SAMPLE-SBS31_205_96
SAMPLE-SBS31_205_97
SAMPLE-SBS31_205_98
SAMPLE-SBS31_205_99
SAMPLE-SBS31_20_1
SAMPLE-SBS31_20_10
SAMPLE-SBS31_20_100
SAMPLE-SBS31_20_11
SAMPLE-SBS31_20_12
SAMPLE-SBS31_20_13
SAMPLE-SBS31_20_14
SAMPLE-SBS31_20_15
SAMPLE-SBS31_20_16
SAMPLE-SBS31_20_17


Reconstruction error
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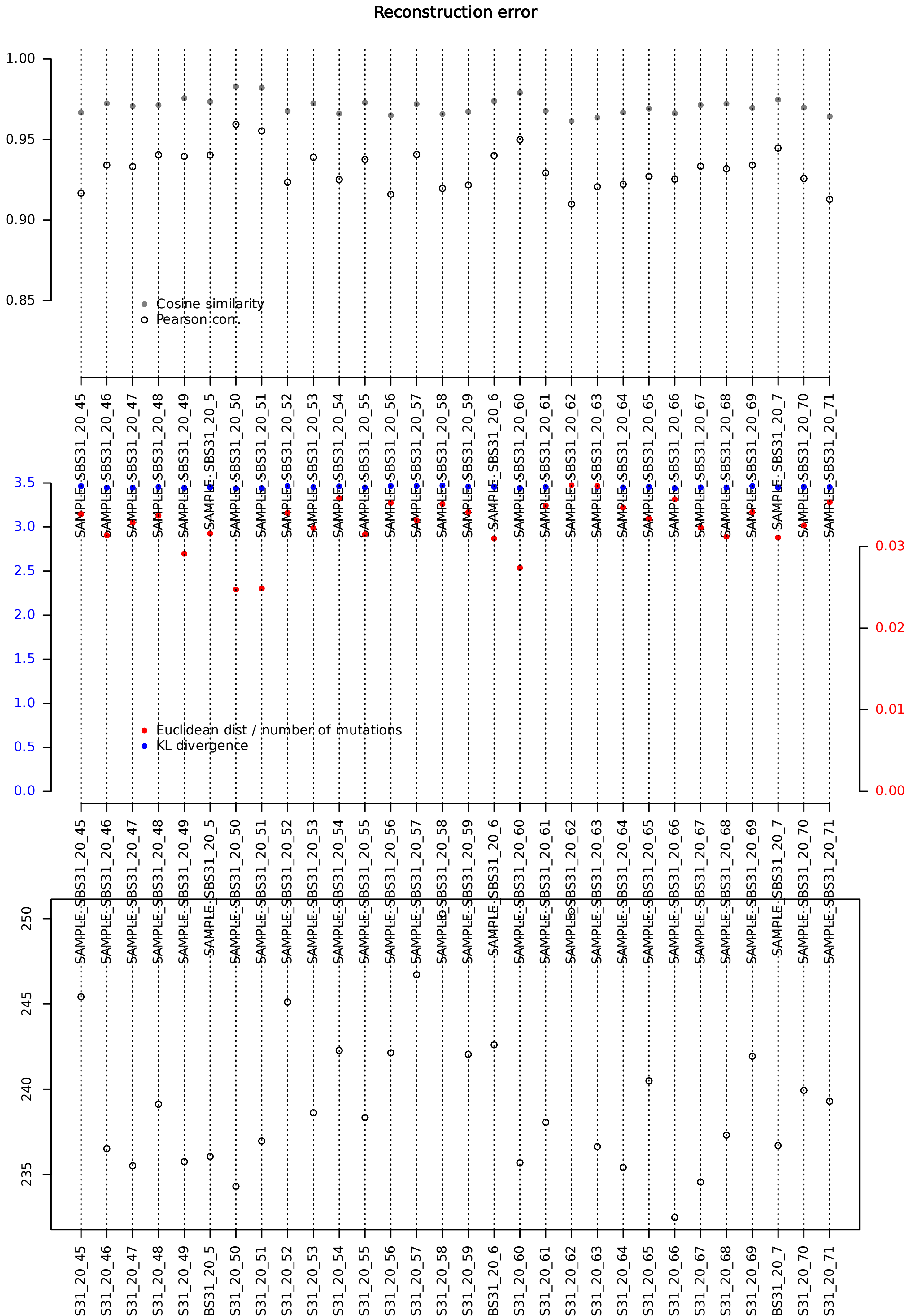
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
250
245
240
235
SAMPLE-SBS31_20_18
SAMPLE-SBS31_20_19
SAMPLE-SBS31_20_2
SAMPLE-SBS31_20_20
SAMPLE-SBS31_20_21
SAMPLE-SBS31_20_22
SAMPLE-SBS31_20_23
SAMPLE-SBS31_20_24
SAMPLE-SBS31_20_25
SAMPLE-SBS31_20_26
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


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
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
250
245
240
235
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
SAMPLE-SBS31_20_54
SAMPLE-SBS31_20_55
SAMPLE-SBS31_20_56
SAMPLE-SBS31_20_57
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SAMPLE-SBS31_20_59
SAMPLE-SBS31_20_6
SAMPLE-SBS31_20_60
SAMPLE-SBS31_20_61
SAMPLE-SBS31_20_62
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SAMPLE-SBS31_20_65
SAMPLE-SBS31_20_66
SAMPLE-SBS31_20_67
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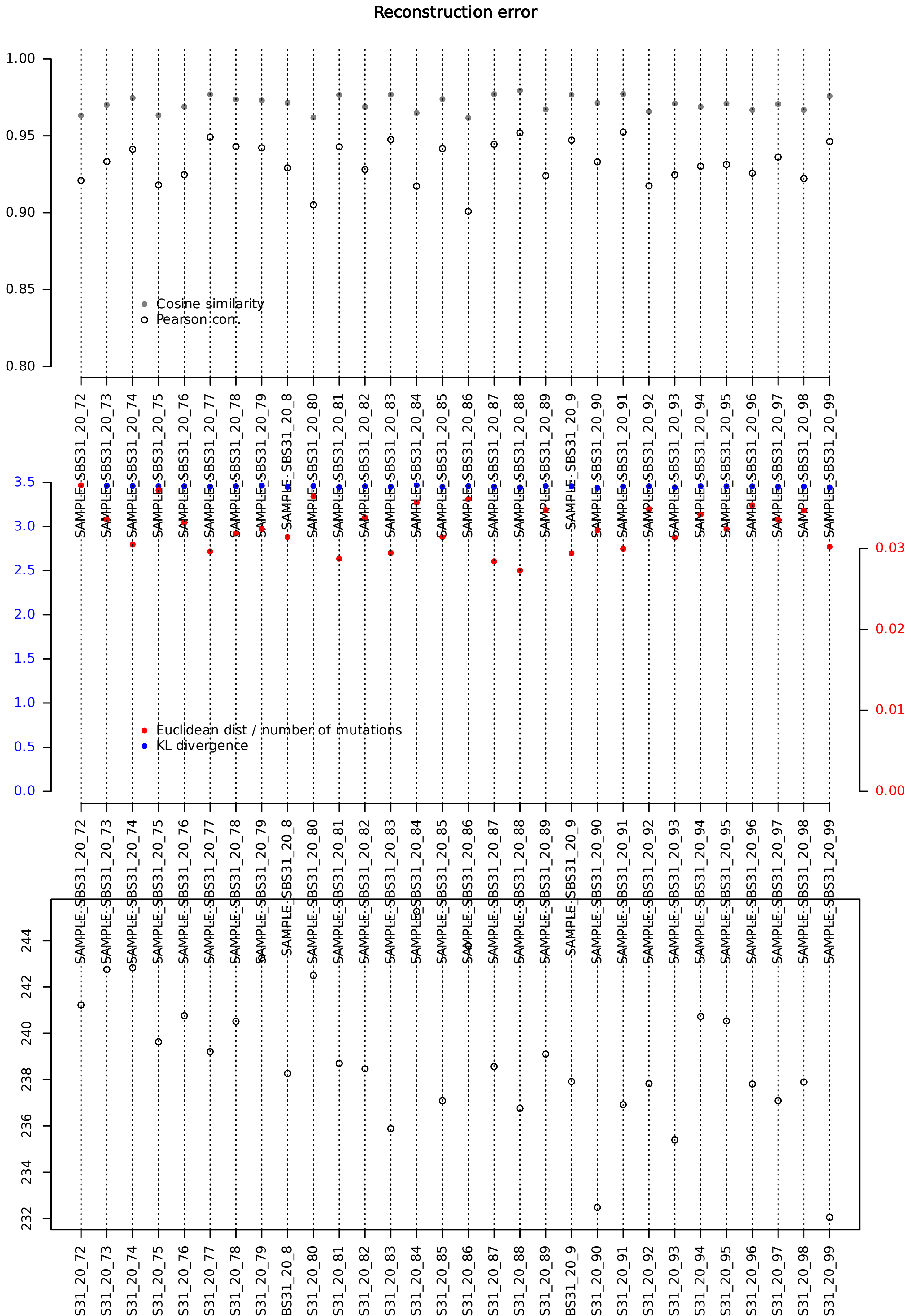
SAMPLE-SBS31_20_70
SAMPLE-SBS31_20_71


Reconstruction error
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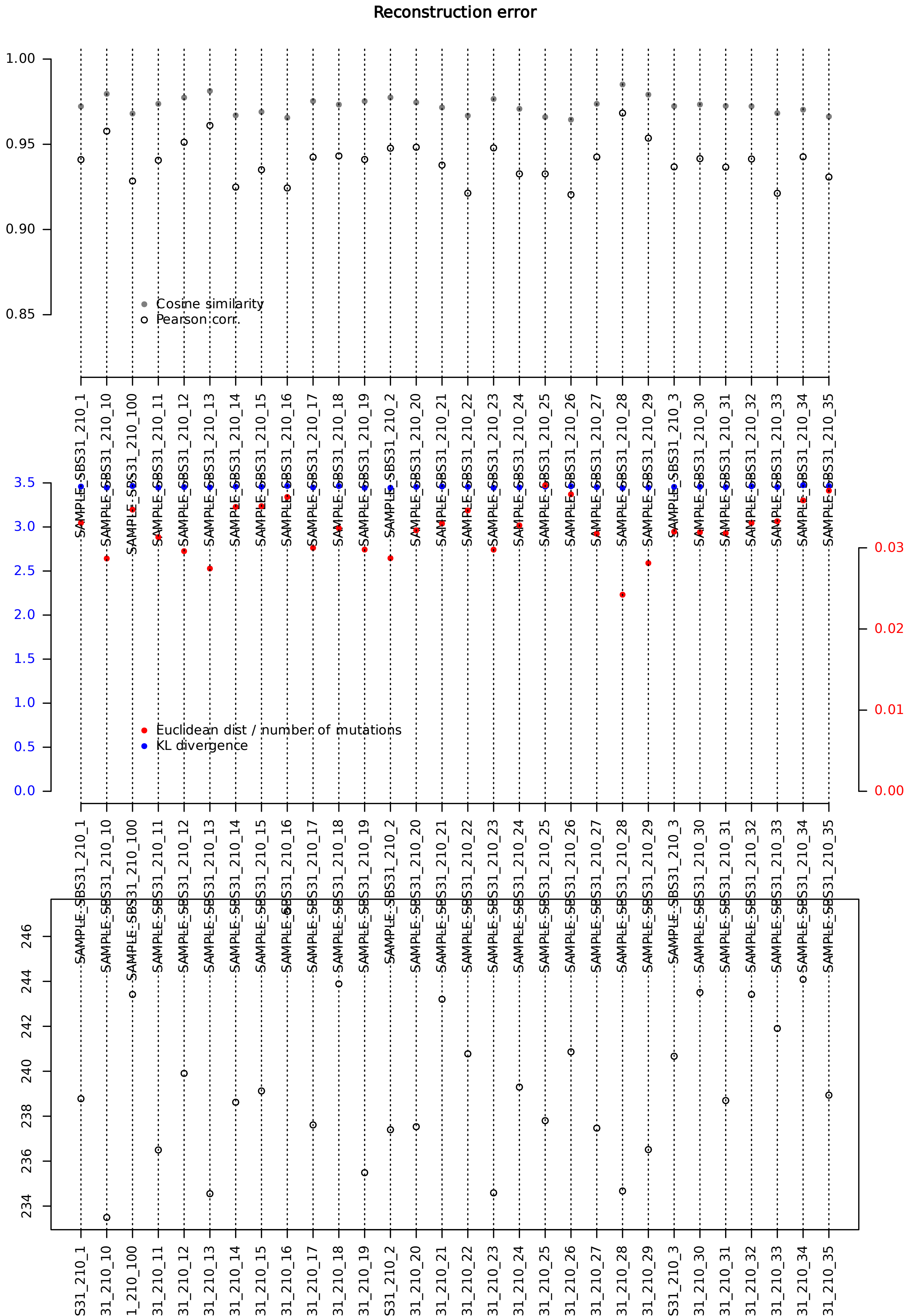
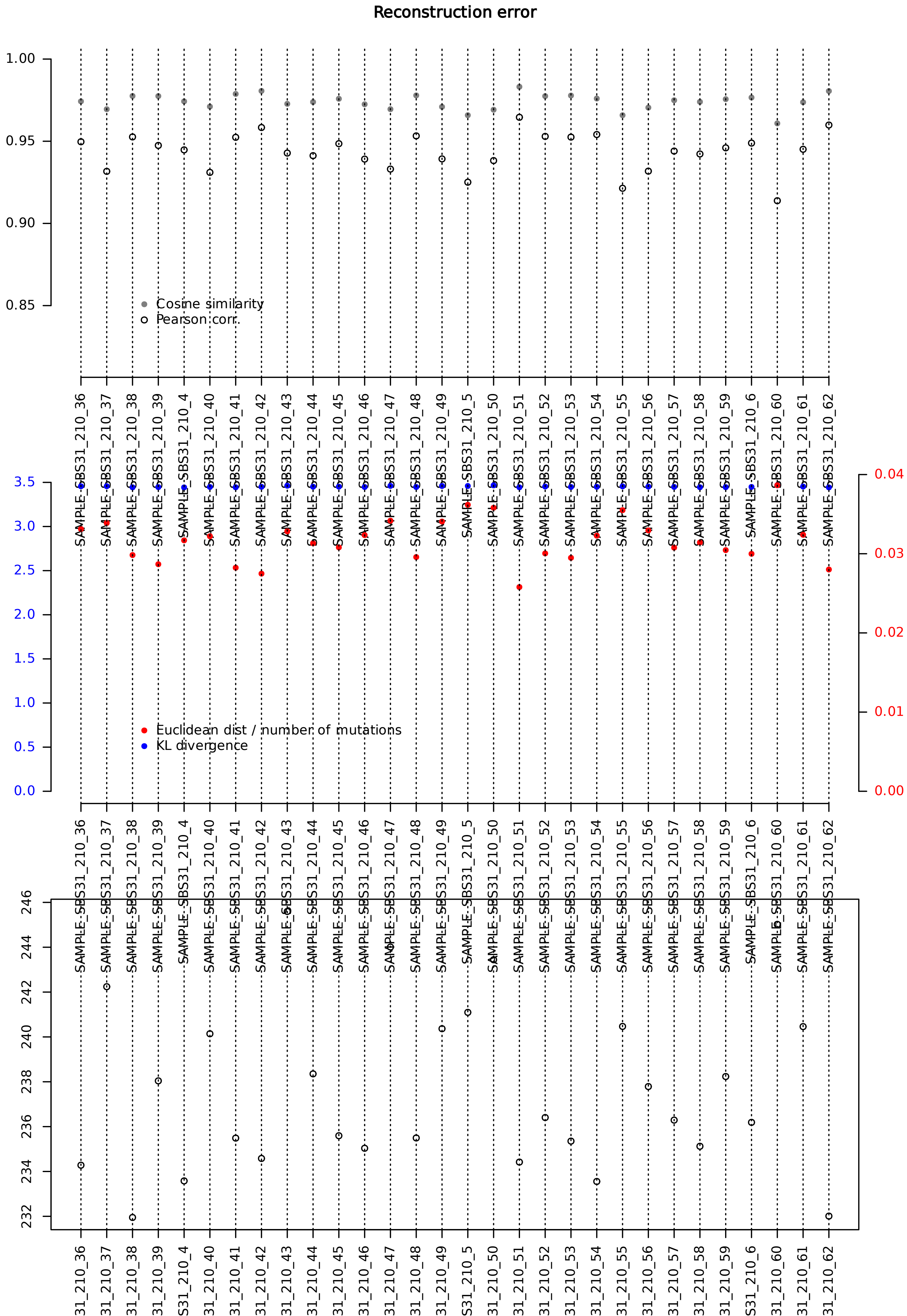
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
SAMPLE-SBS31_20_72
SAMPLE-SBS31_20_73
SAMPLE-SBS31_20_74
SAMPLE-SBS31_20_75
SAMPLE-SBS31_20_76
SAMPLE-SBS31_20_77
SAMPLE-SBS31_20_78
SAMPLE-SBS31_20_79
SAMPLE-SBS31_20_8
SAMPLE-SBS31_20_80
SAMPLE-SBS31_20_81
SAMPLE-SBS31_20_82
SAMPLE-SBS31_20_83
SAMPLE-SBS31_20_84
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
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
244
242
240
238
236
234
232


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
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
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
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
246
244
242
240
238
236
234


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
246
244
242
240
238
236
234
232
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
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
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SAMPLE-SBS31_210_58
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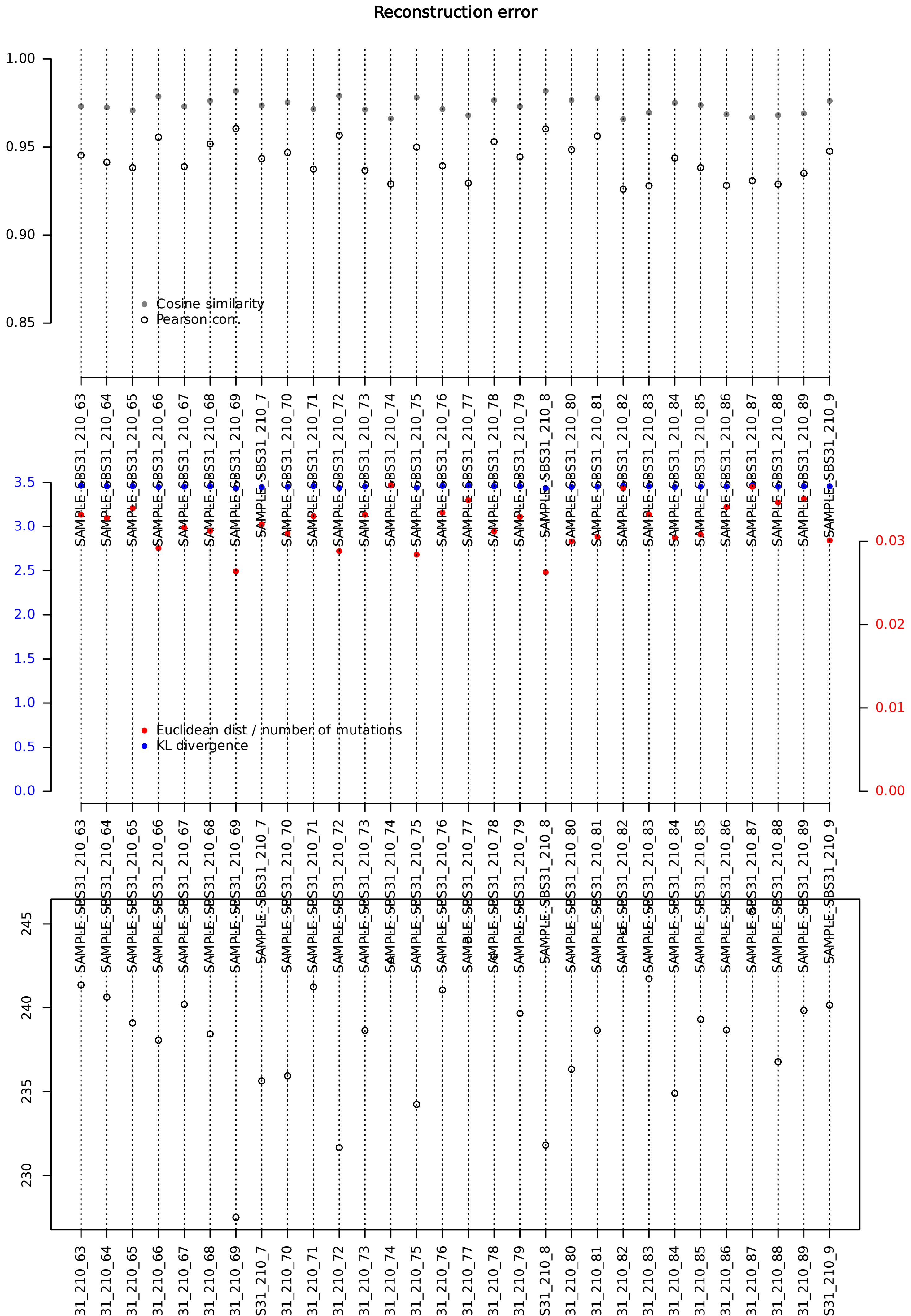
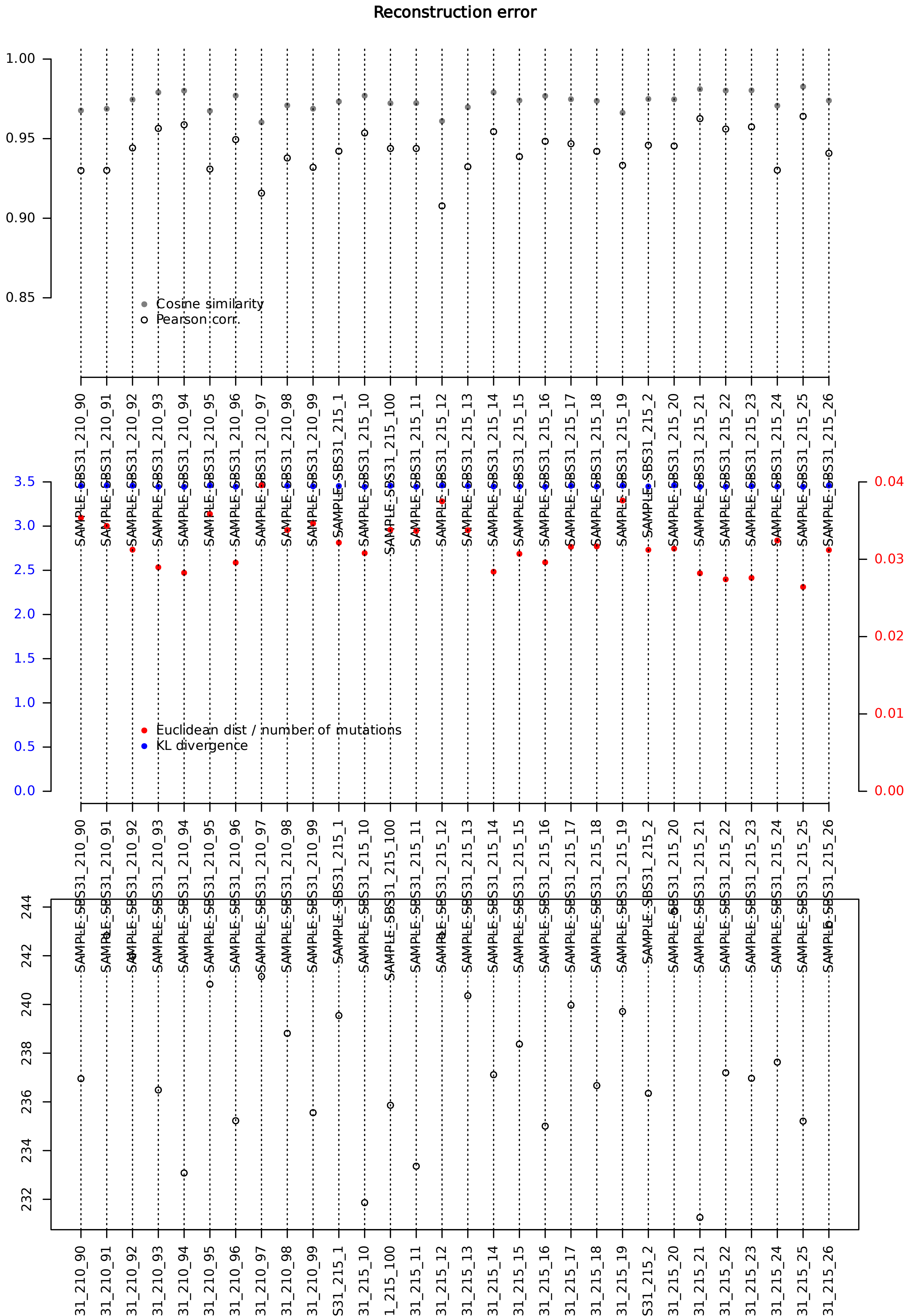
SAMPLE-SBS31_210_60
SAMPLE-SBS31_210_61
SAMPLE-SBS31_210_62


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
244
242
240
238
236
234
232
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
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
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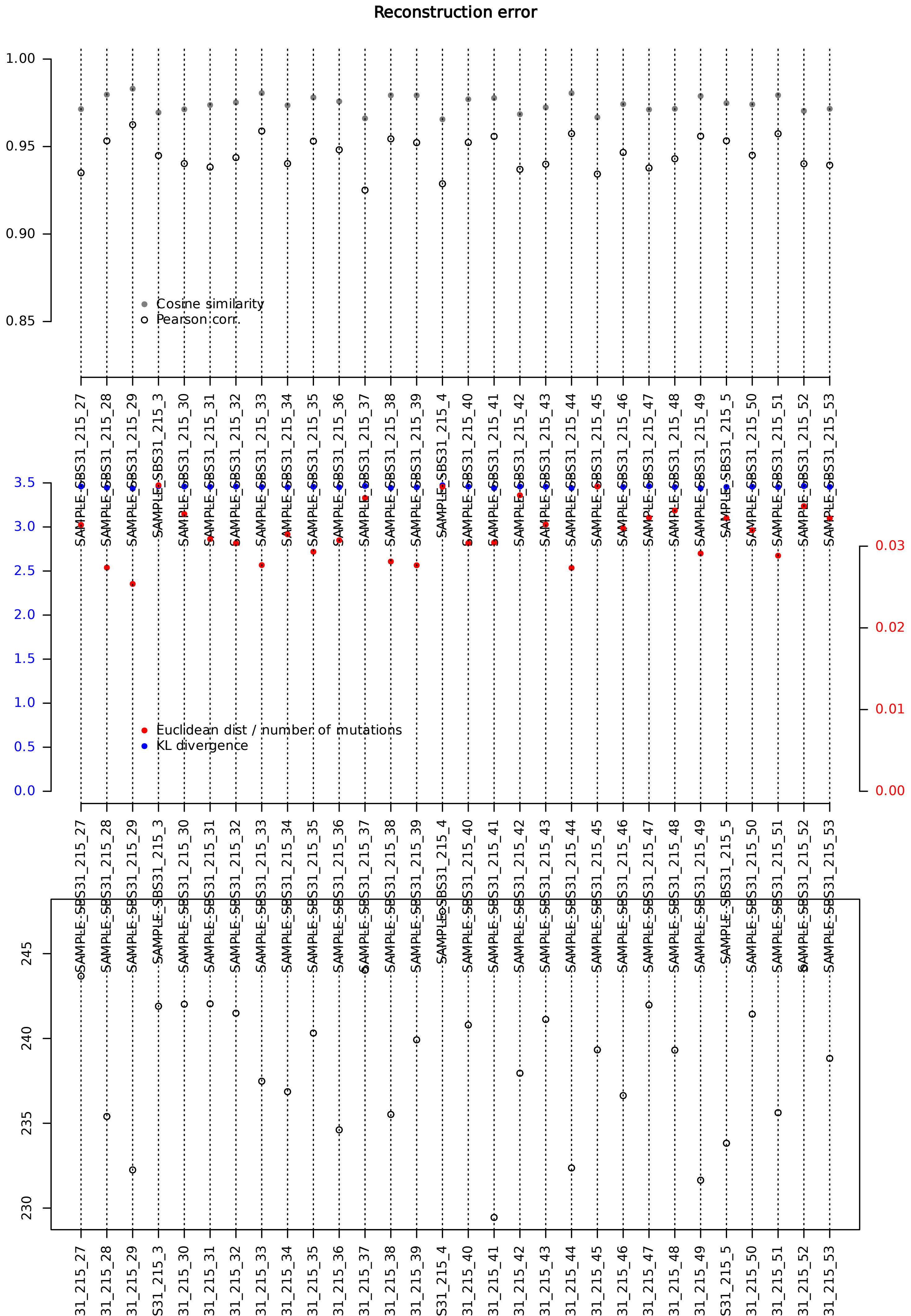
SAMPLE-SBS31_215_23
SAMPLE-SBS31_215_24
SAMPLE-SBS31_215_25
SAMPLE-SBS31_215_26


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
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
245
240
235
230
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
SAMPLE-SBS31_215_36
SAMPLE-SBS31_215_37
SAMPLE-SBS31_215_38
SAMPLE-SBS31_215_39
SAMPLE-SBS31_215_4
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SAMPLE-SBS31_215_49
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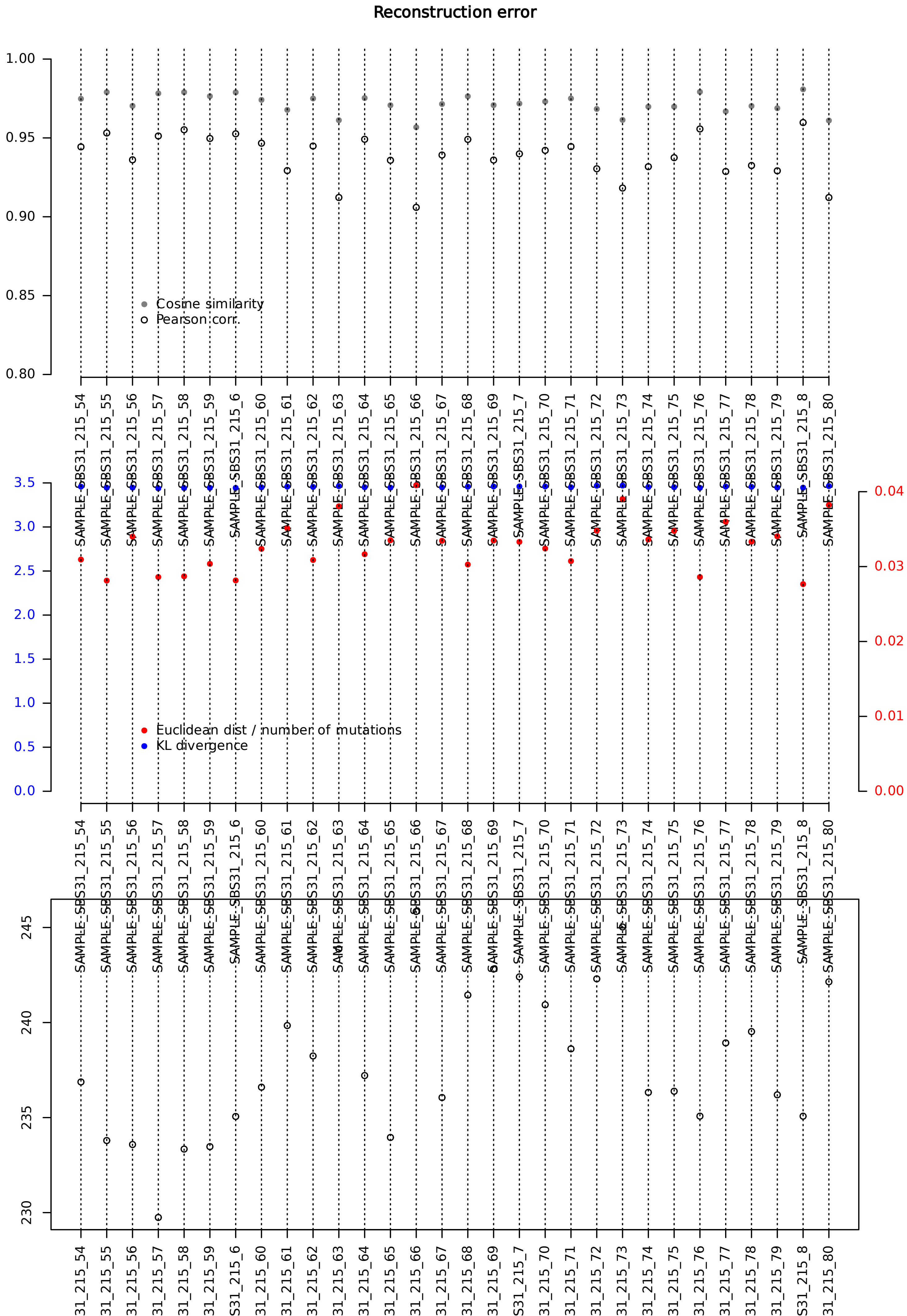
SAMPLE-SBS31_215_51
SAMPLE-SBS31_215_52
SAMPLE-SBS31_215_53


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
245
240
235
230
SAMPLE_SBS31_215_54
SAMPLE_SBS31_215_55
SAMPLE_SBS31_215_56
SAMPLE_SBS31_215_57
SAMPLE_SBS31_215_58
SAMPLE_SBS31_215_59
SAMPLE_SBS31_215_6
SAMPLE_SBS31_215_60
SAMPLE_SBS31_215_61
SAMPLE_SBS31_215_62
SAMPLE_SBS31_215_63
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SAMPLE_SBS31_215_75
SAMPLE_SBS31_215_76
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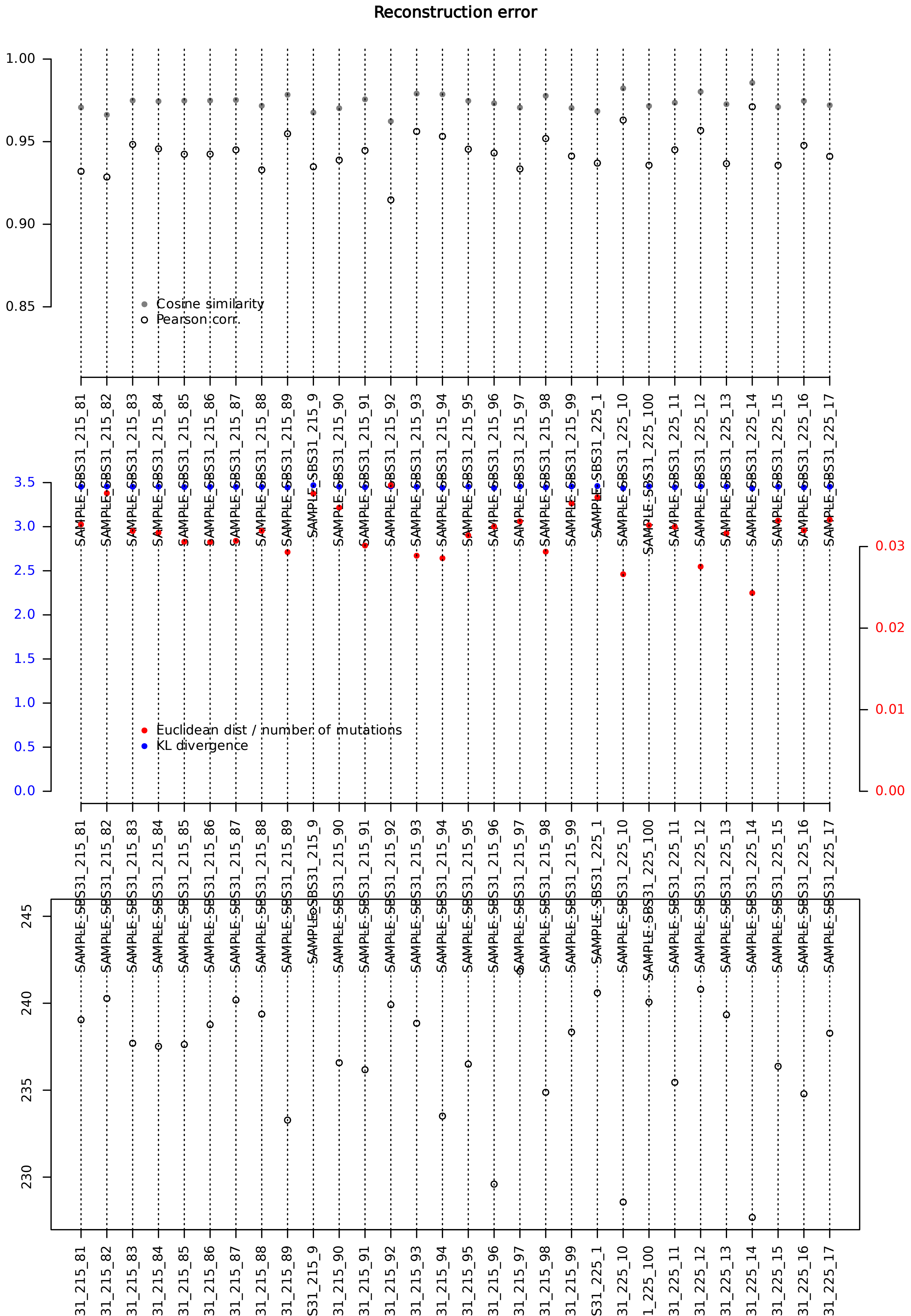
SAMPLE_SBS31_215_78
SAMPLE_SBS31_215_79
SAMPLE_SBS31_215_8
SAMPLE_SBS31_215_80


Reconstruction error
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0.95
0.90
0.85
Cosine similarity
Pearson corr.
SAMPLE-SBS31_215_81
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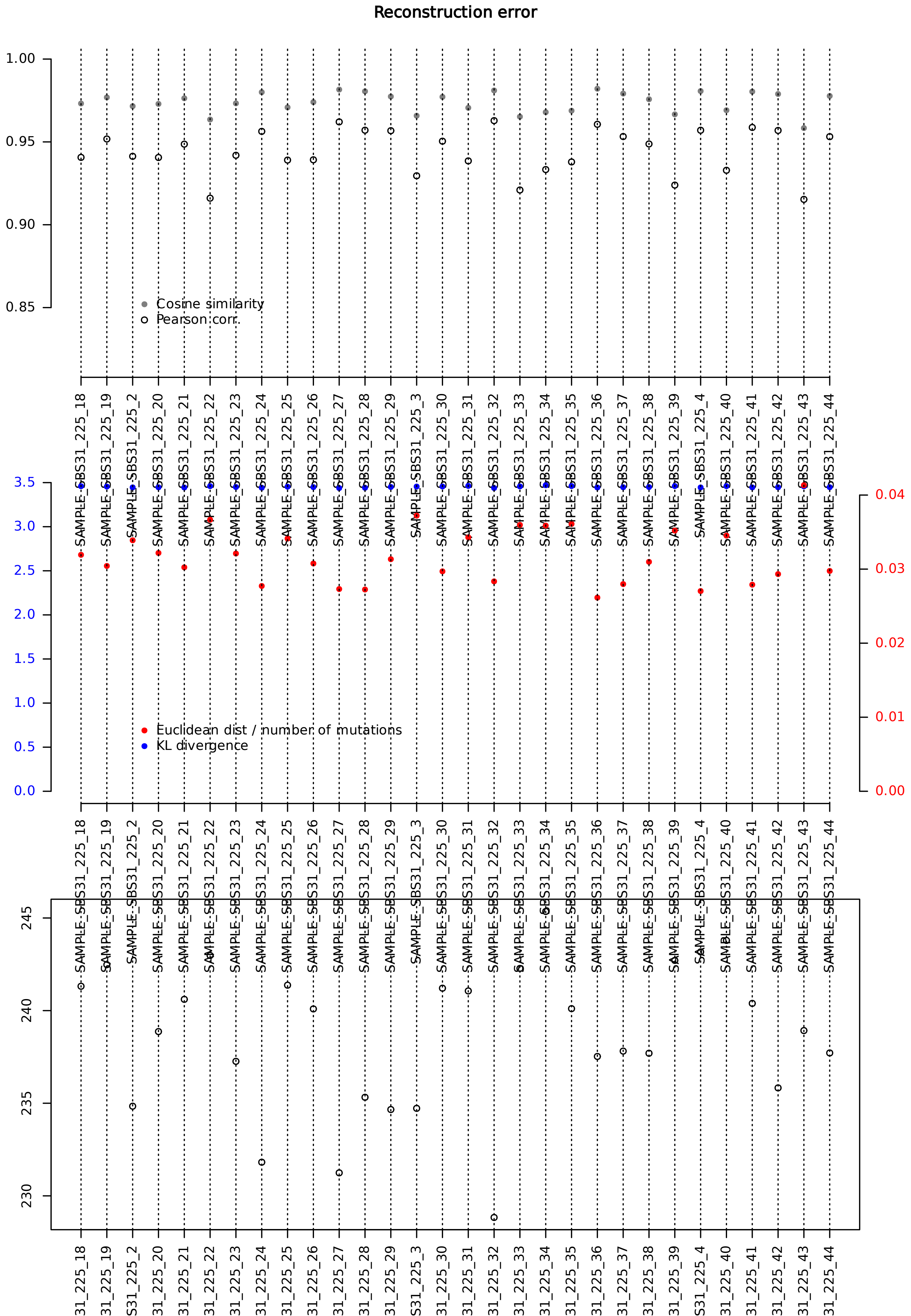
SAMPLE-SBS31_215_83
SAMPLE-SBS31_215_84
SAMPLE-SBS31_215_85
SAMPLE-SBS31_215_86
SAMPLE-SBS31_215_87
SAMPLE-SBS31_215_88
SAMPLE-SBS31_215_89
SAMPLE-SBS31_215_9
SAMPLE-SBS31_215_90
SAMPLE-SBS31_215_91
SAMPLE-SBS31_215_92
SAMPLE-SBS31_215_93
SAMPLE-SBS31_215_94
SAMPLE-SBS31_215_95
SAMPLE-SBS31_215_96
SAMPLE-SBS31_215_97
SAMPLE-SBS31_215_98
SAMPLE-SBS31_215_99
SAMPLE-SBS31_225_1
SAMPLE-SBS31_225_10
SAMPLE-SBS31_225_100
SAMPLE-SBS31_225_11
SAMPLE-SBS31_225_12
SAMPLE-SBS31_225_13
SAMPLE-SBS31_225_14
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
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
245
240
235
230


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
245
240
235
230
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
SAMPLE-SBS31_225_27
SAMPLE-SBS31_225_28
SAMPLE-SBS31_225_29
SAMPLE-SBS31_225_3
SAMPLE-SBS31_225_30
SAMPLE-SBS31_225_31
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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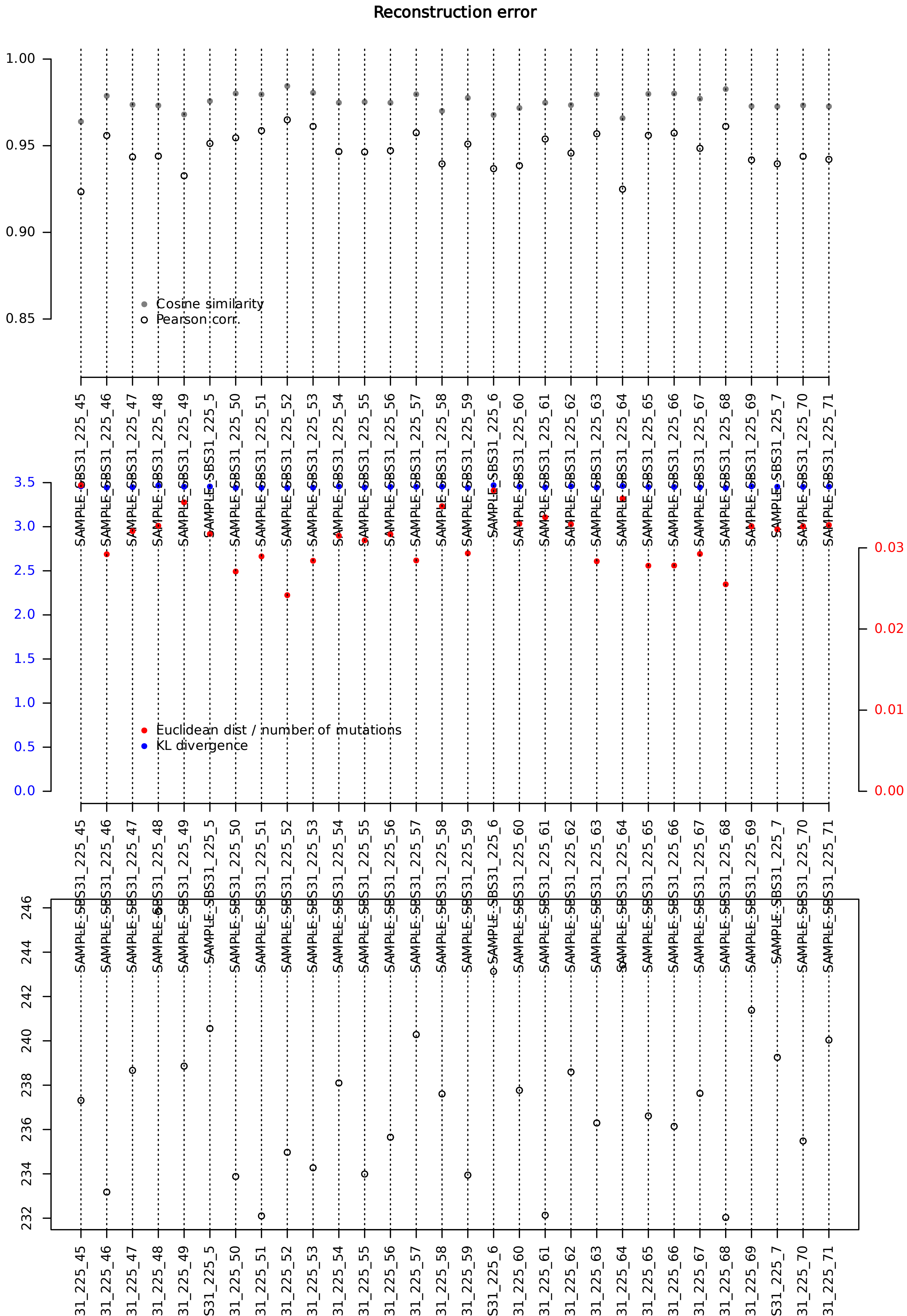
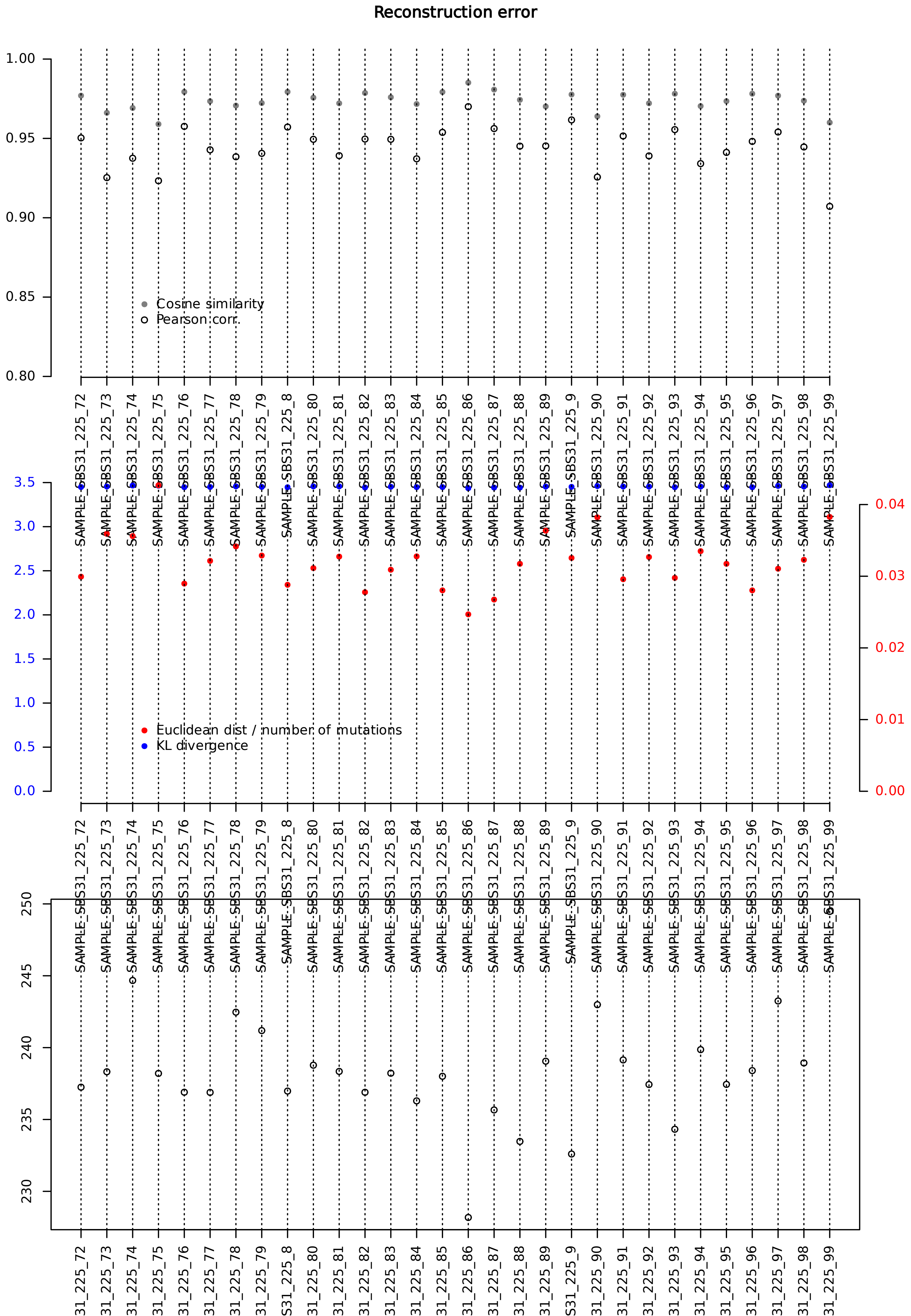
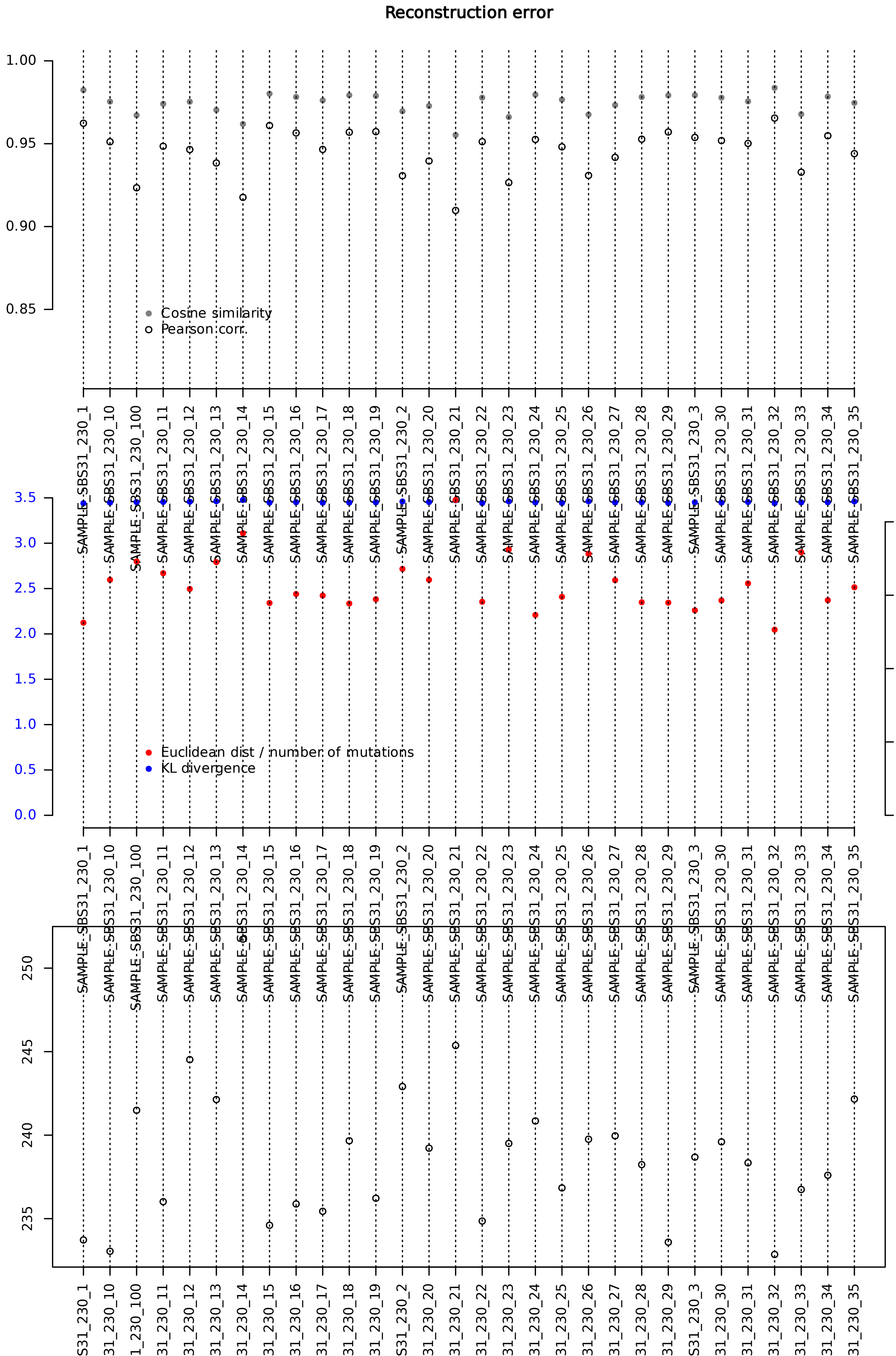
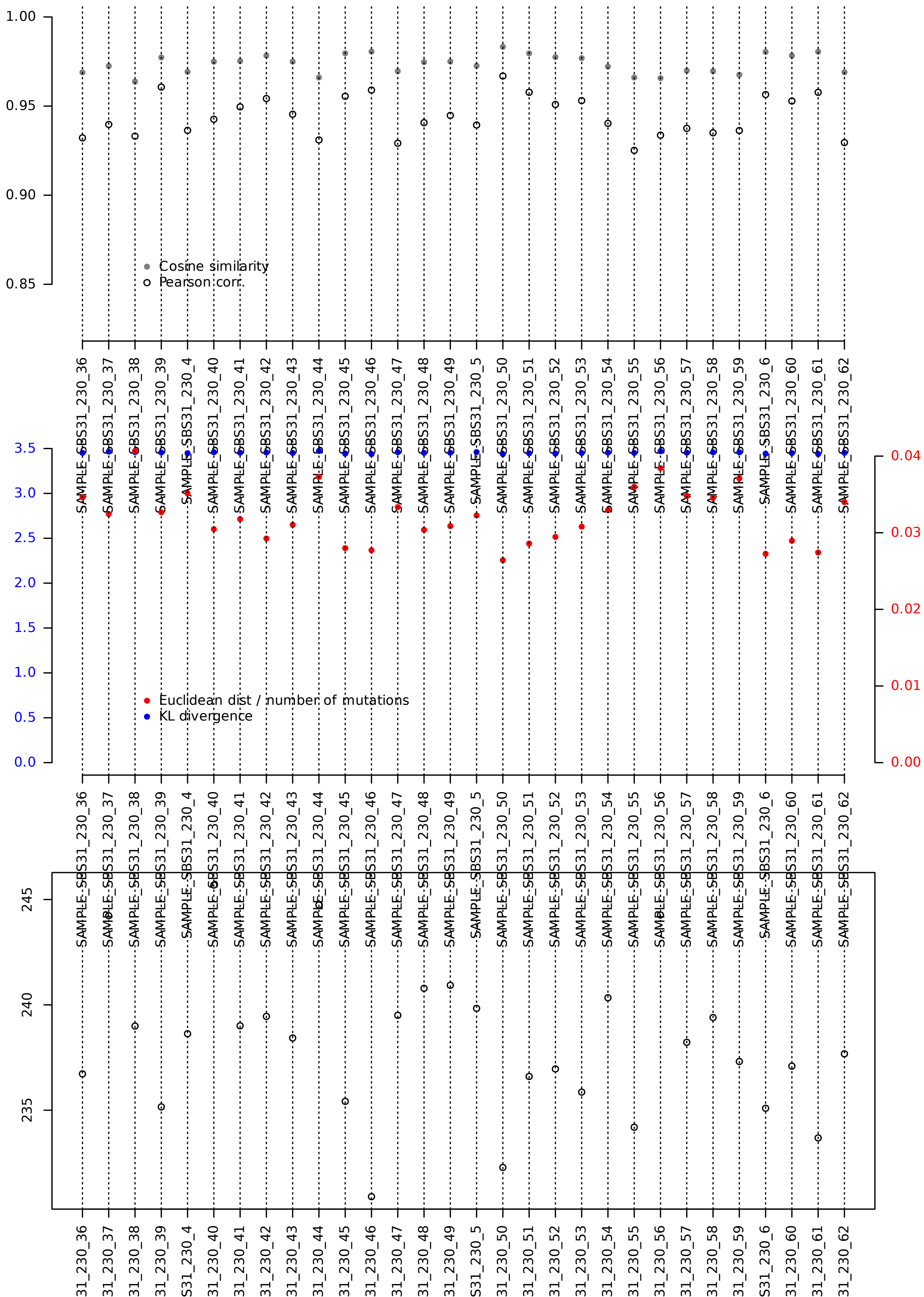
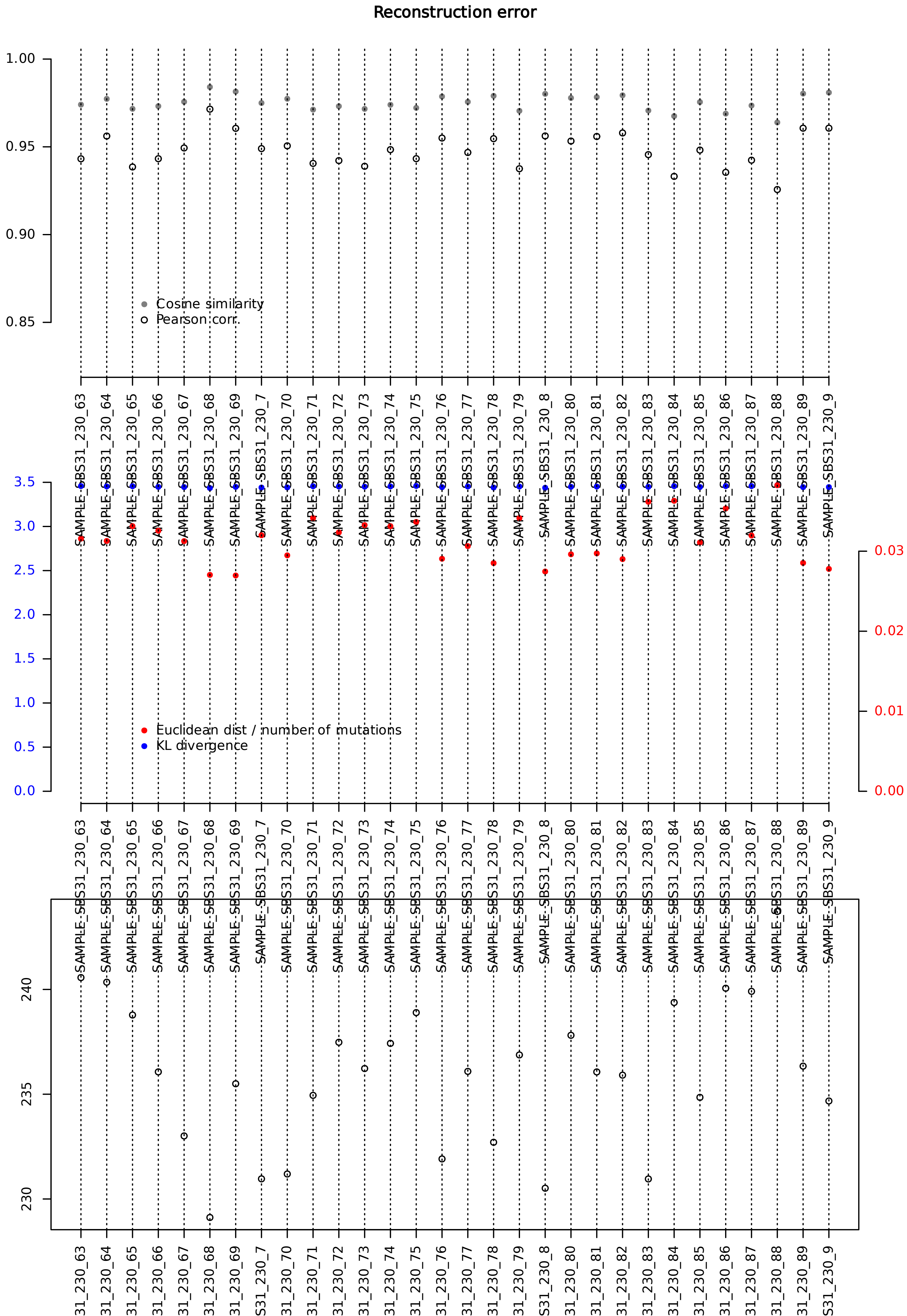
SAMPLE-SBS31_225_41
SAMPLE-SBS31_225_42
SAMPLE-SBS31_225_43
SAMPLE-SBS31_225_44

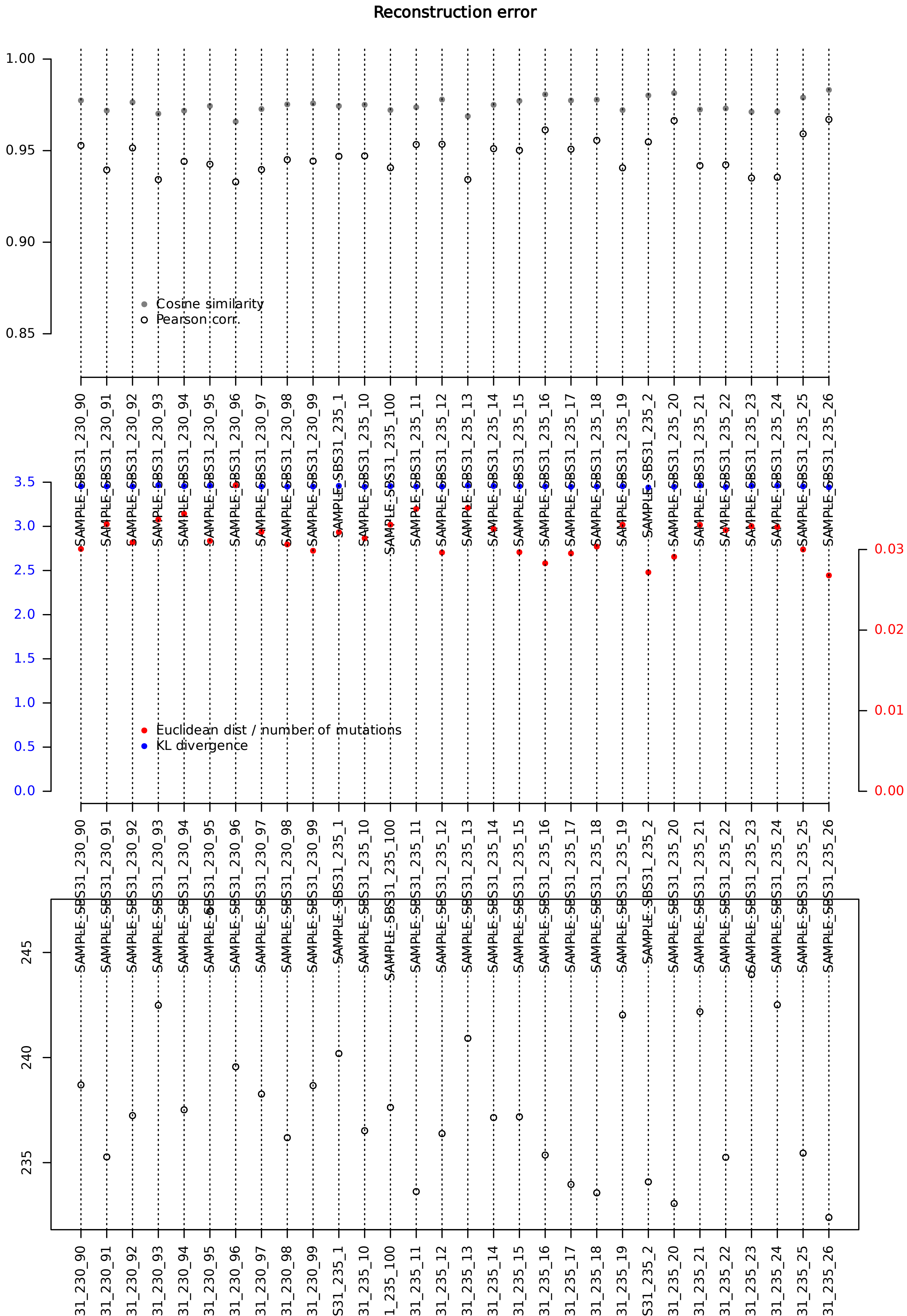

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
246
244
242
240
238
236
234
232
SAMPLE-SBS31_225_45
SAMPLE-SBS31_225_46
SAMPLE-SBS31_225_47
SAMPLE-SBS31_225_48
SAMPLE-SBS31_225_49
SAMPLE-SBS31_225_5
SAMPLE-SBS31_225_50
SAMPLE-SBS31_225_51
SAMPLE-SBS31_225_52
SAMPLE-SBS31_225_53
SAMPLE-SBS31_225_54
SAMPLE-SBS31_225_55
SAMPLE-SBS31_225_56
SAMPLE-SBS31_225_57
SAMPLE-SBS31_225_58
SAMPLE-SBS31_225_59
SAMPLE-SBS31_225_6
SAMPLE-SBS31_225_60
SAMPLE-SBS31_225_61
SAMPLE-SBS31_225_62
SAMPLE-SBS31_225_63
SAMPLE-SBS31_225_64
SAMPLE-SBS31_225_65
SAMPLE-SBS31_225_66
SAMPLE-SBS31_225_67
SAMPLE-SBS31_225_68
SAMPLE-SBS31_225_69
SAMPLE-SBS31_225_7
SAMPLE-SBS31_225_70
SAMPLE-SBS31_225_71

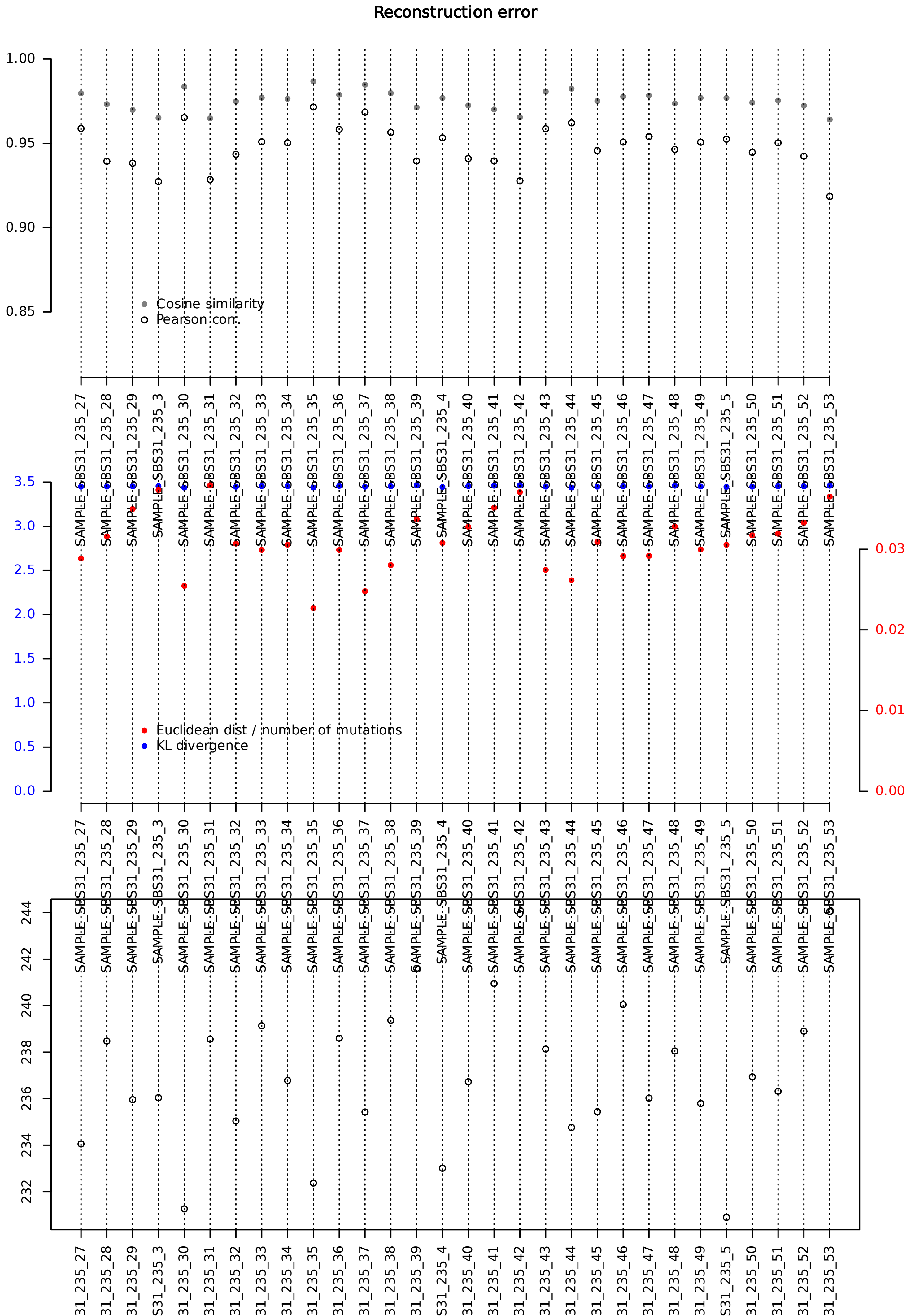

Reconstruction error
1.00
0.95
0.90
0.85
0.80
● Cosine similarity
○ Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
● Euclidean dist / number of mutations
● KL divergence
250
245
240
235
230
SAMPLE-SBS31_225_72
SAMPLE-SBS31_225_73
SAMPLE-SBS31_225_74
SAMPLE-SBS31_225_75
SAMPLE-SBS31_225_76
SAMPLE-SBS31_225_77
SAMPLE-SBS31_225_78
SAMPLE-SBS31_225_79
SAMPLE-SBS31_225_8
SAMPLE-SBS31_225_80
SAMPLE-SBS31_225_81
SAMPLE-SBS31_225_82
SAMPLE-SBS31_225_83
SAMPLE-SBS31_225_84
SAMPLE-SBS31_225_85
SAMPLE-SBS31_225_86
SAMPLE-SBS31_225_87
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
SAMPLE-SBS31_225_95
SAMPLE-SBS31_225_96
SAMPLE-SBS31_225_97
SAMPLE-SBS31_225_98
SAMPLE-SBS31_225_99
31_225_72
31_225_73
31_225_74
31_225_75
31_225_76
31_225_77
31_225_78
31_225_79
S31_225_8
31_225_80
31_225_81
31_225_82
31_225_83
31_225_84
31_225_85
31_225_86
31_225_87
31_225_88
31_225_89
S31_225_9
31_225_90
31_225_91
31_225_92
31_225_93
31_225_94
31_225_95
31_225_96
31_225_97
31_225_98
31_225_99

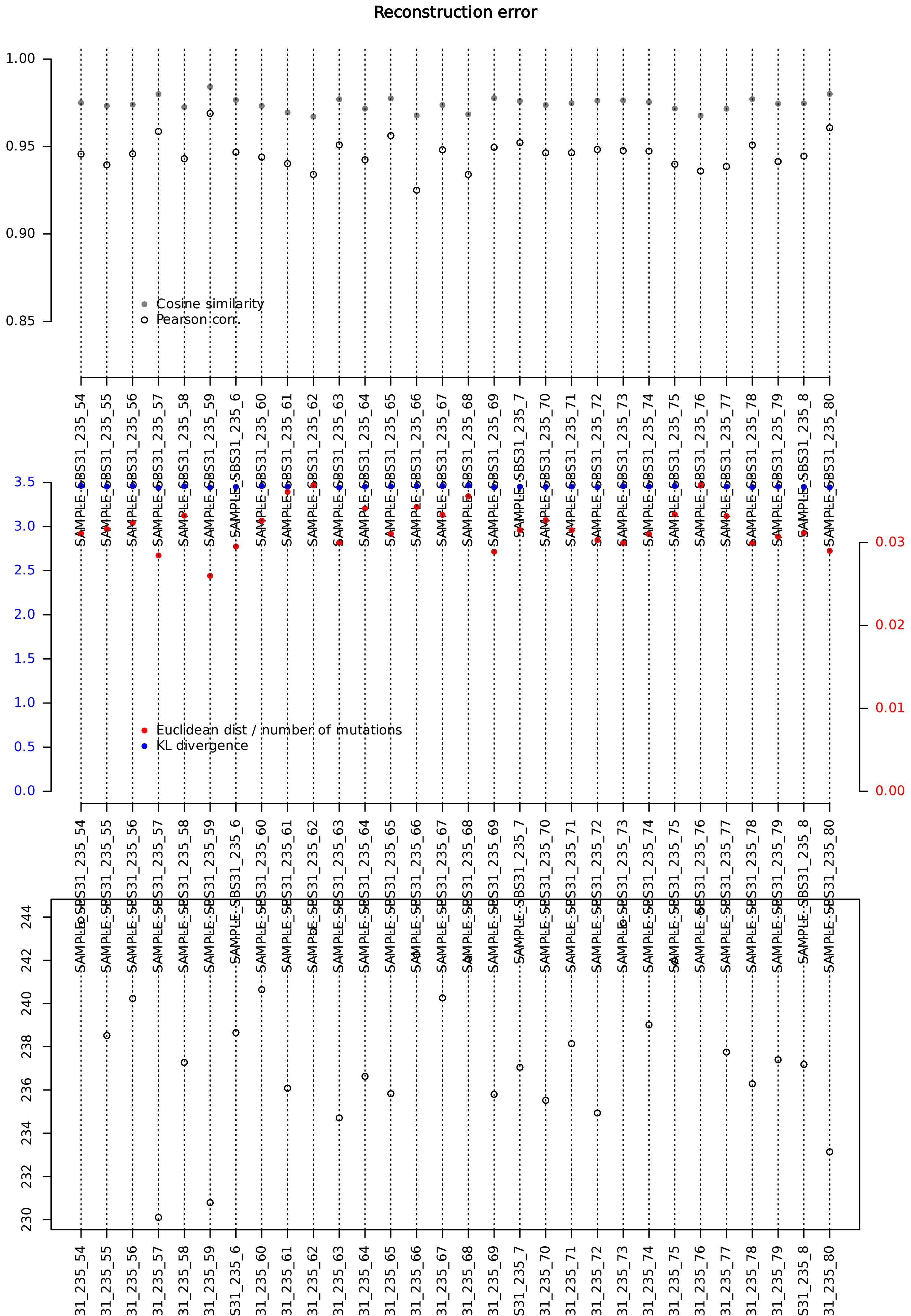

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
SAMPLE-SBS31_230_1
SAMPLE-SBS31_230_10
SAMPLE-SBS31_230_100
SAMPLE-SBS31_230_11
SAMPLE-SBS31_230_12
SAMPLE-SBS31_230_13
SAMPLE-SBS31_230_14
SAMPLE-SBS31_230_15
SAMPLE-SBS31_230_16
SAMPLE-SBS31_230_17
SAMPLE-SBS31_230_18
SAMPLE-SBS31_230_19
SAMPLE-SBS31_230_2
SAMPLE-SBS31_230_20
SAMPLE-SBS31_230_21
SAMPLE-SBS31_230_22
SAMPLE-SBS31_230_23
SAMPLE-SBS31_230_24
SAMPLE-SBS31_230_25
SAMPLE-SBS31_230_26
SAMPLE-SBS31_230_27
SAMPLE-SBS31_230_28
SAMPLE-SBS31_230_29
SAMPLE-SBS31_230_3
SAMPLE-SBS31_230_30
SAMPLE-SBS31_230_31
SAMPLE-SBS31_230_32
SAMPLE-SBS31_230_33
SAMPLE-SBS31_230_34
SAMPLE-SBS31_230_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
250
245
240
235

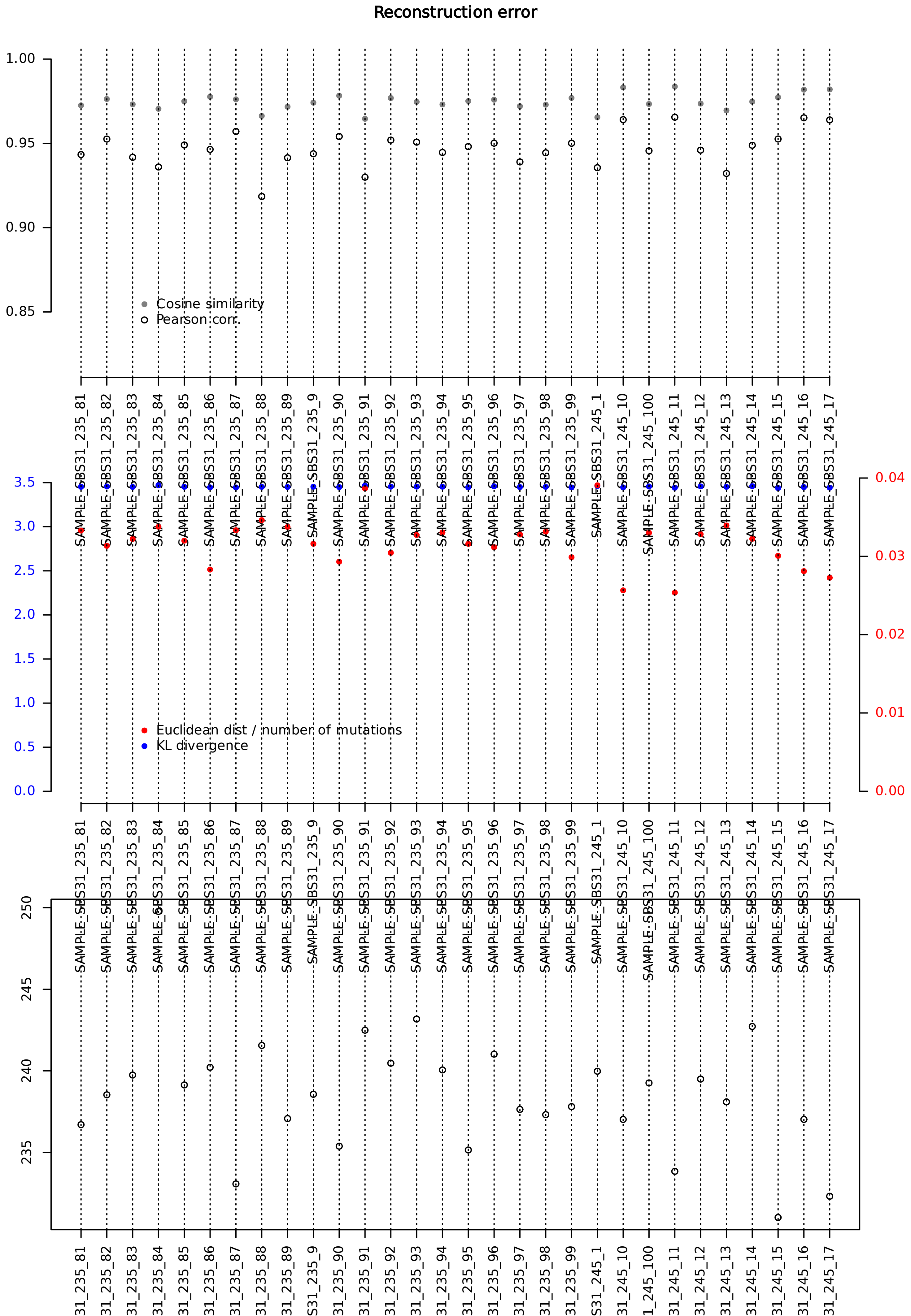

Reconstruction error

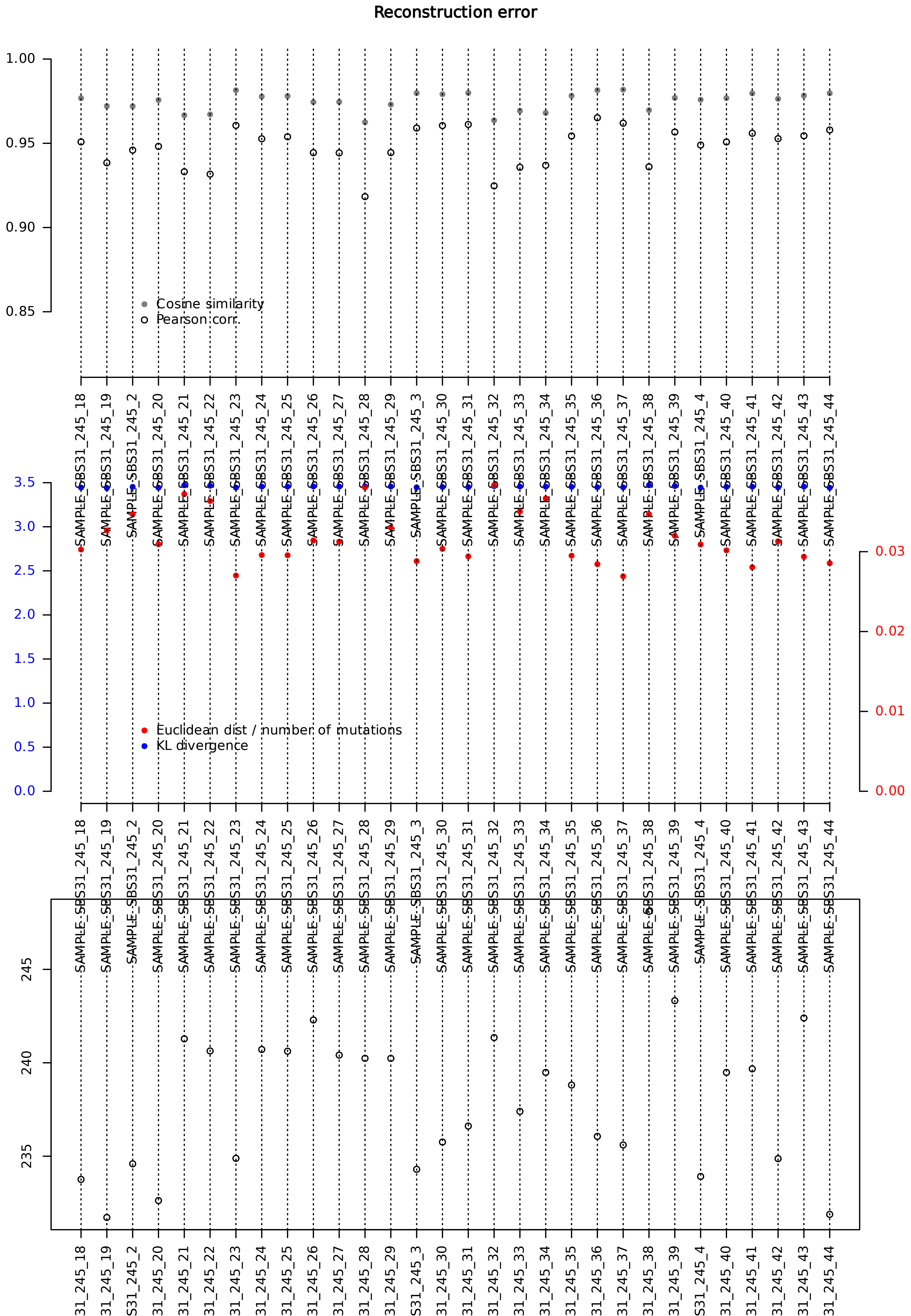

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
240
235
230
SAMPLE-SBS31_230_63
SAMPLE-SBS31_230_64
SAMPLE-SBS31_230_65
SAMPLE-SBS31_230_66
SAMPLE-SBS31_230_67
SAMPLE-SBS31_230_68
SAMPLE-SBS31_230_69
SAMPLE-SBS31_230_7
SAMPLE-SBS31_230_70
SAMPLE-SBS31_230_71
SAMPLE-SBS31_230_72
SAMPLE-SBS31_230_73
SAMPLE-SBS31_230_74
SAMPLE-SBS31_230_75
SAMPLE-SBS31_230_76
SAMPLE-SBS31_230_77
SAMPLE-SBS31_230_78
SAMPLE-SBS31_230_79
SAMPLE-SBS31_230_8
SAMPLE-SBS31_230_80
SAMPLE-SBS31_230_81
SAMPLE-SBS31_230_82
SAMPLE-SBS31_230_83
SAMPLE-SBS31_230_84
SAMPLE-SBS31_230_85
SAMPLE-SBS31_230_86
SAMPLE-SBS31_230_87
SAMPLE-SBS31_230_88
SAMPLE-SBS31_230_89
SAMPLE-SBS31_230_9

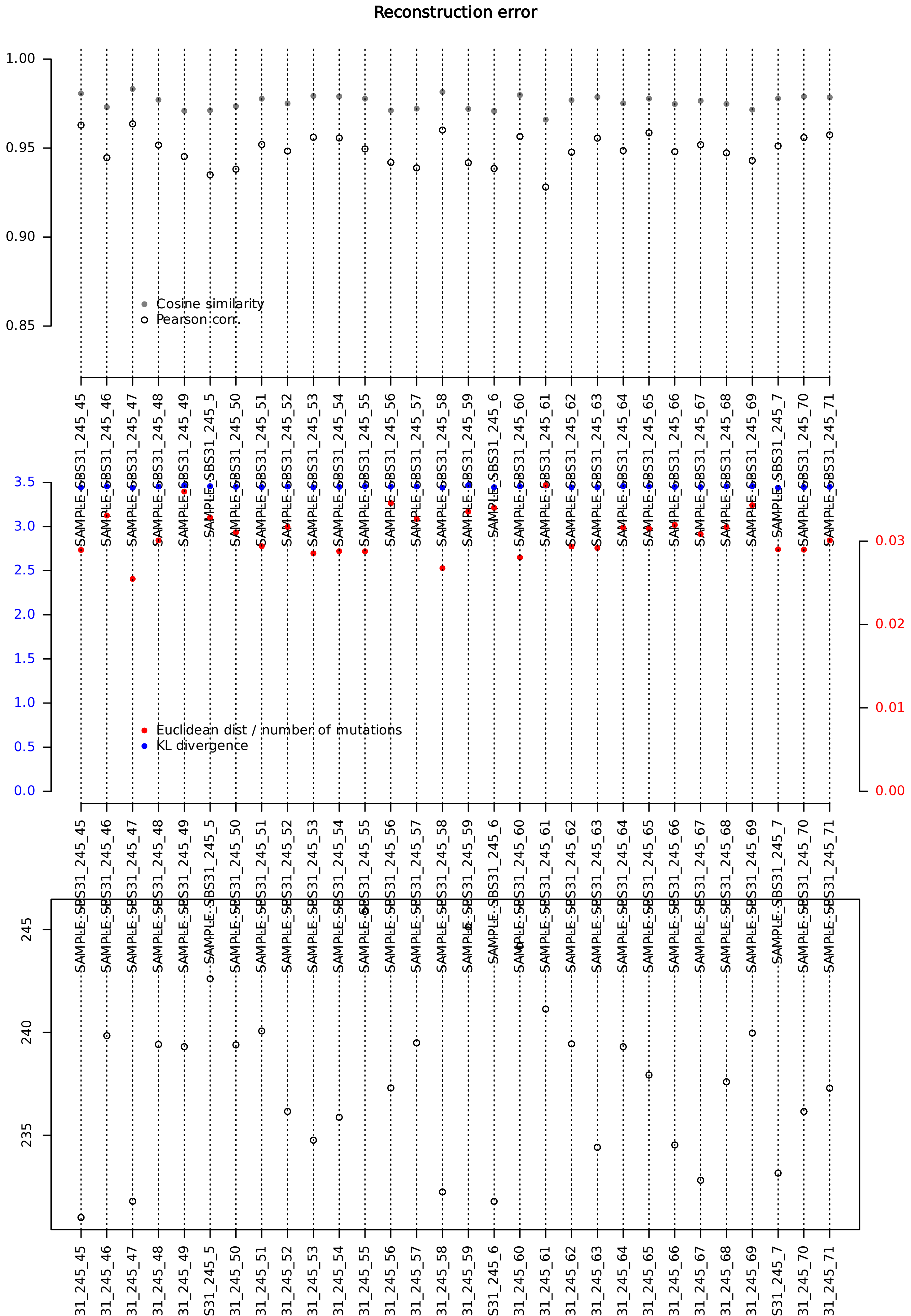

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
245
240
235
SAMPLE-SBS31_230_90
SAMPLE-SBS31_230_91
SAMPLE-SBS31_230_92
SAMPLE-SBS31_230_93
SAMPLE-SBS31_230_94
SAMPLE-SBS31_230_95
SAMPLE-SBS31_230_96
SAMPLE-SBS31_230_97
SAMPLE-SBS31_230_98
SAMPLE-SBS31_230_99
SAMPLE-SBS31_235_1
SAMPLE-SBS31_235_10
SAMPLE-SBS31_235_100
SAMPLE-SBS31_235_11
SAMPLE-SBS31_235_12
SAMPLE-SBS31_235_13
SAMPLE-SBS31_235_14
SAMPLE-SBS31_235_15
SAMPLE-SBS31_235_16
SAMPLE-SBS31_235_17
SAMPLE-SBS31_235_18
SAMPLE-SBS31_235_19
SAMPLE-SBS31_235_2
SAMPLE-SBS31_235_20
SAMPLE-SBS31_235_21
SAMPLE-SBS31_235_22
SAMPLE-SBS31_235_23
SAMPLE-SBS31_235_24
SAMPLE-SBS31_235_25
SAMPLE-SBS31_235_26

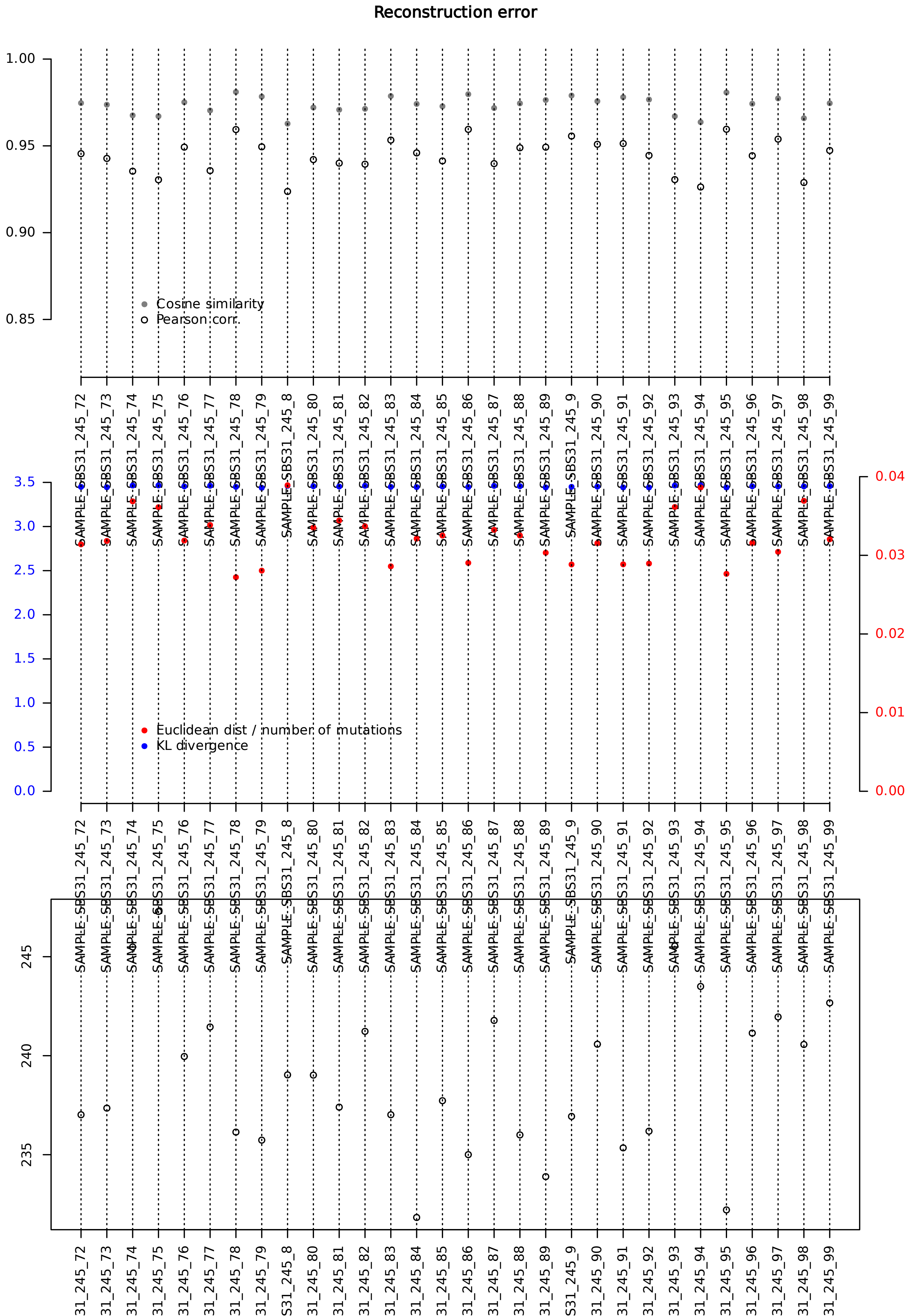

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
244
242
240
238
236
234
232
SAMPLE-SBS31_235_27
SAMPLE-SBS31_235_28
SAMPLE-SBS31_235_29
SAMPLE-SBS31_235_3
SAMPLE-SBS31_235_30
SAMPLE-SBS31_235_31
SAMPLE-SBS31_235_32
SAMPLE-SBS31_235_33
SAMPLE-SBS31_235_34
SAMPLE-SBS31_235_35
SAMPLE-SBS31_235_36
SAMPLE-SBS31_235_37
SAMPLE-SBS31_235_38
SAMPLE-SBS31_235_39
SAMPLE-SBS31_235_4
SAMPLE-SBS31_235_40
SAMPLE-SBS31_235_41
SAMPLE-SBS31_235_42
SAMPLE-SBS31_235_43
SAMPLE-SBS31_235_44
SAMPLE-SBS31_235_45
SAMPLE-SBS31_235_46
SAMPLE-SBS31_235_47
SAMPLE-SBS31_235_48
SAMPLE-SBS31_235_49
SAMPLE-SBS31_235_5
SAMPLE-SBS31_235_50
SAMPLE-SBS31_235_51
SAMPLE-SBS31_235_52
SAMPLE-SBS31_235_53

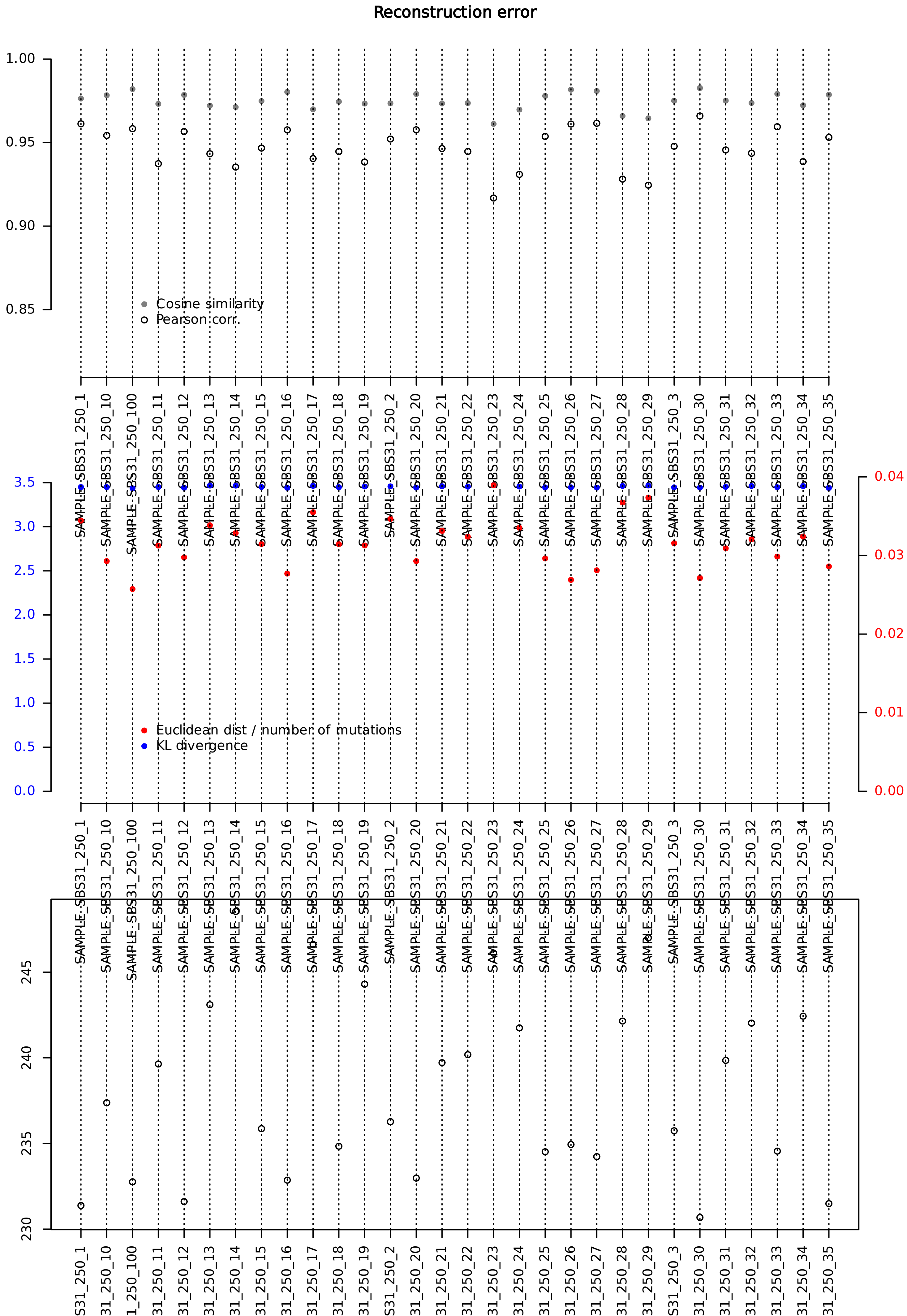

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
244
242
240
238
236
234
232
230
SAMPLE-SBS31_235_54
SAMPLE-SBS31_235_55
SAMPLE-SBS31_235_56
SAMPLE-SBS31_235_57
SAMPLE-SBS31_235_58
SAMPLE-SBS31_235_59
SAMPLE-SBS31_235_6
SAMPLE-SBS31_235_60
SAMPLE-SBS31_235_61
SAMPLE-SBS31_235_62
SAMPLE-SBS31_235_63
SAMPLE-SBS31_235_64
SAMPLE-SBS31_235_65
SAMPLE-SBS31_235_66
SAMPLE-SBS31_235_67
SAMPLE-SBS31_235_68
SAMPLE-SBS31_235_69
SAMPLE-SBS31_235_7
SAMPLE-SBS31_235_70
SAMPLE-SBS31_235_71
SAMPLE-SBS31_235_72
SAMPLE-SBS31_235_73
SAMPLE-SBS31_235_74
SAMPLE-SBS31_235_75
SAMPLE-SBS31_235_76
SAMPLE-SBS31_235_77
SAMPLE-SBS31_235_78
SAMPLE-SBS31_235_79
SAMPLE-SBS31_235_8
SAMPLE-SBS31_235_80

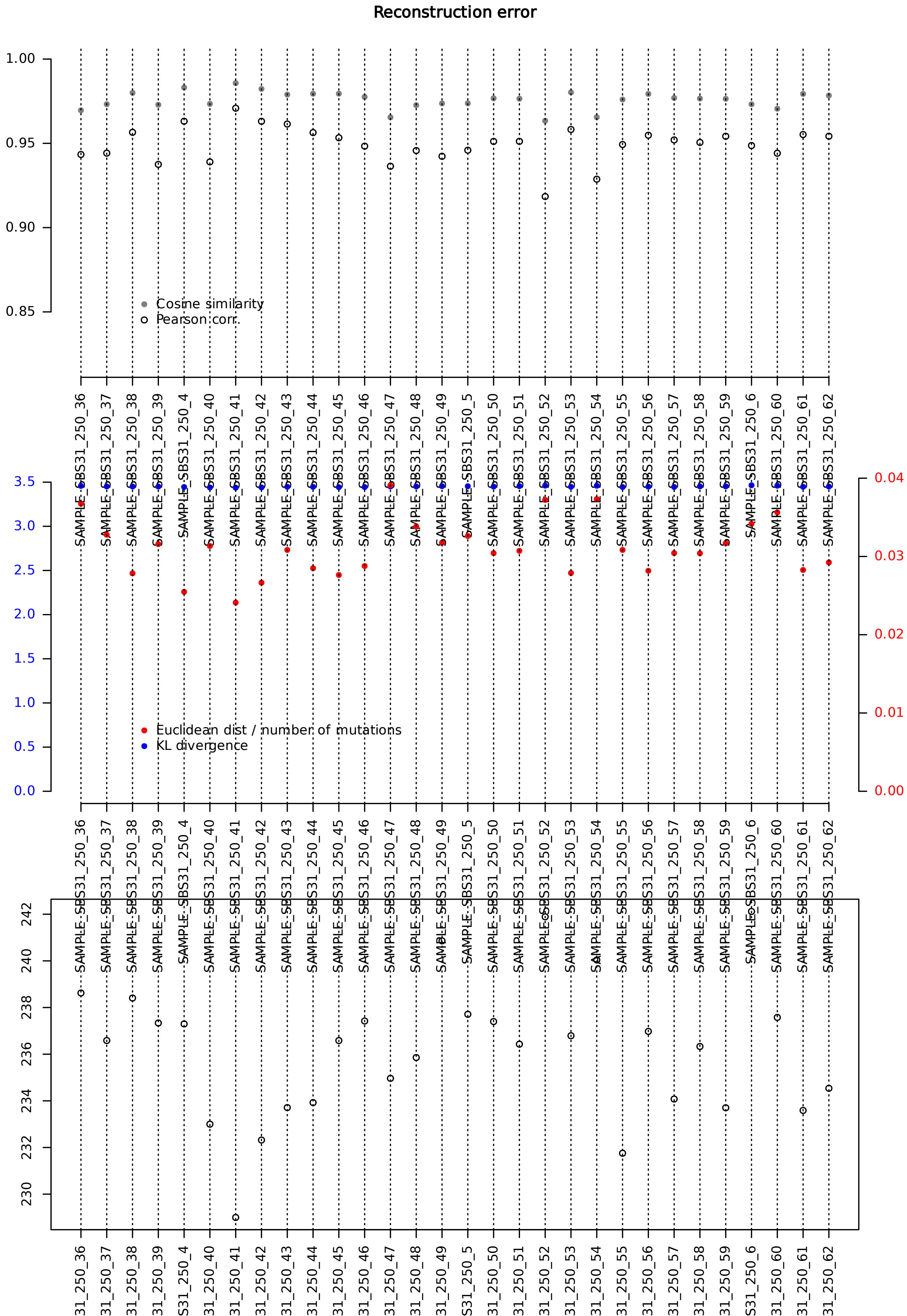

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
SAMPLE-SBS31_235_81
SAMPLE-SBS31_235_82
SAMPLE-SBS31_235_83
SAMPLE-SBS31_235_84
SAMPLE-SBS31_235_85
SAMPLE-SBS31_235_86
SAMPLE-SBS31_235_87
SAMPLE-SBS31_235_88
SAMPLE-SBS31_235_89
SAMPLE-SBS31_235_9
SAMPLE-SBS31_235_90
SAMPLE-SBS31_235_91
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_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
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

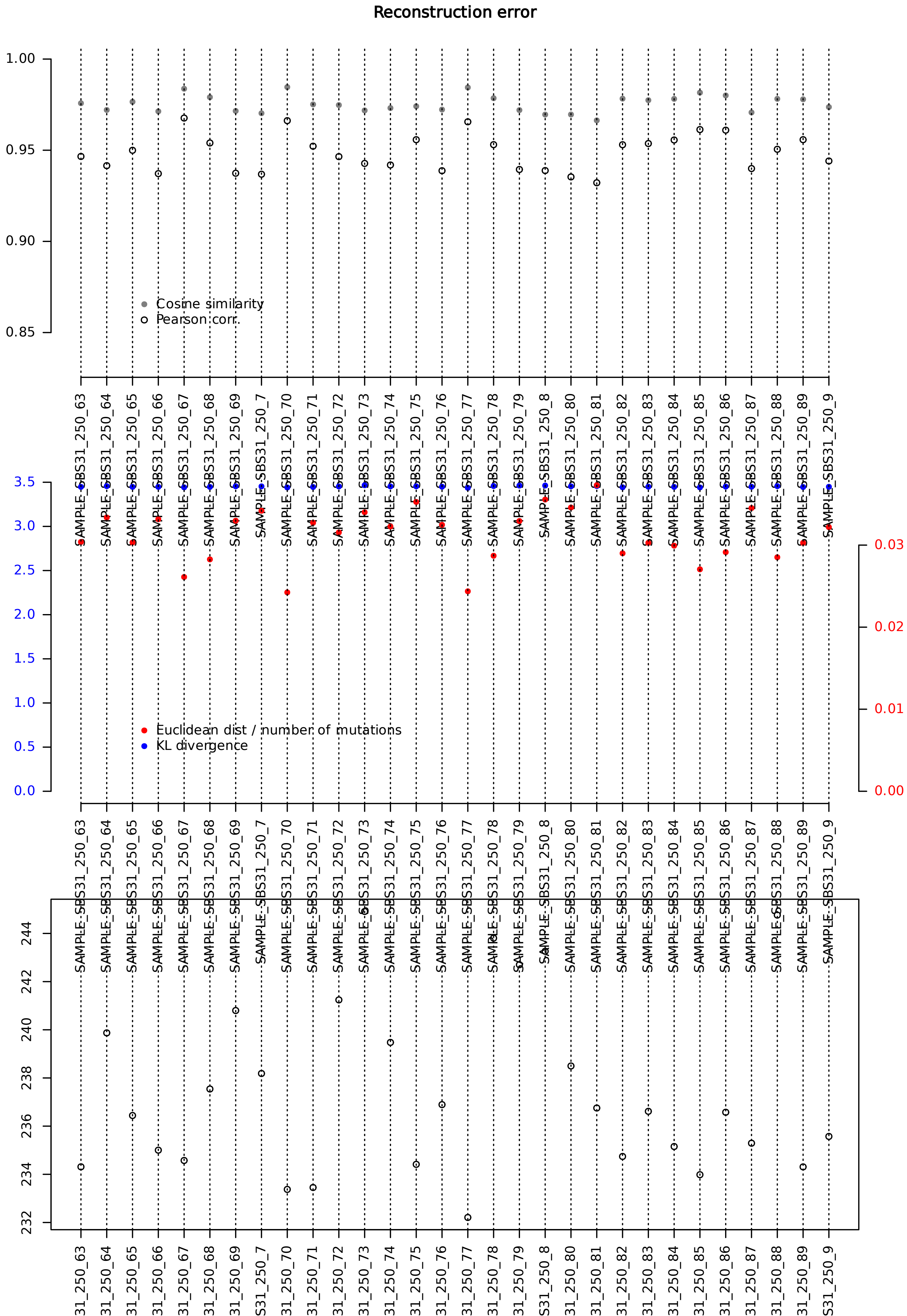

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
245
240
235
SAMPLE-SBS31_245_18
SAMPLE-SBS31_245_19
SAMPLE-SBS31_245_2
SAMPLE-SBS31_245_20
SAMPLE-SBS31_245_21
SAMPLE-SBS31_245_22
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
SAMPLE-SBS31_245_36
SAMPLE-SBS31_245_37
SAMPLE-SBS31_245_38
SAMPLE-SBS31_245_39
SAMPLE-SBS31_245_4
SAMPLE-SBS31_245_40
SAMPLE-SBS31_245_41
SAMPLE-SBS31_245_42
SAMPLE-SBS31_245_43
SAMPLE-SBS31_245_44

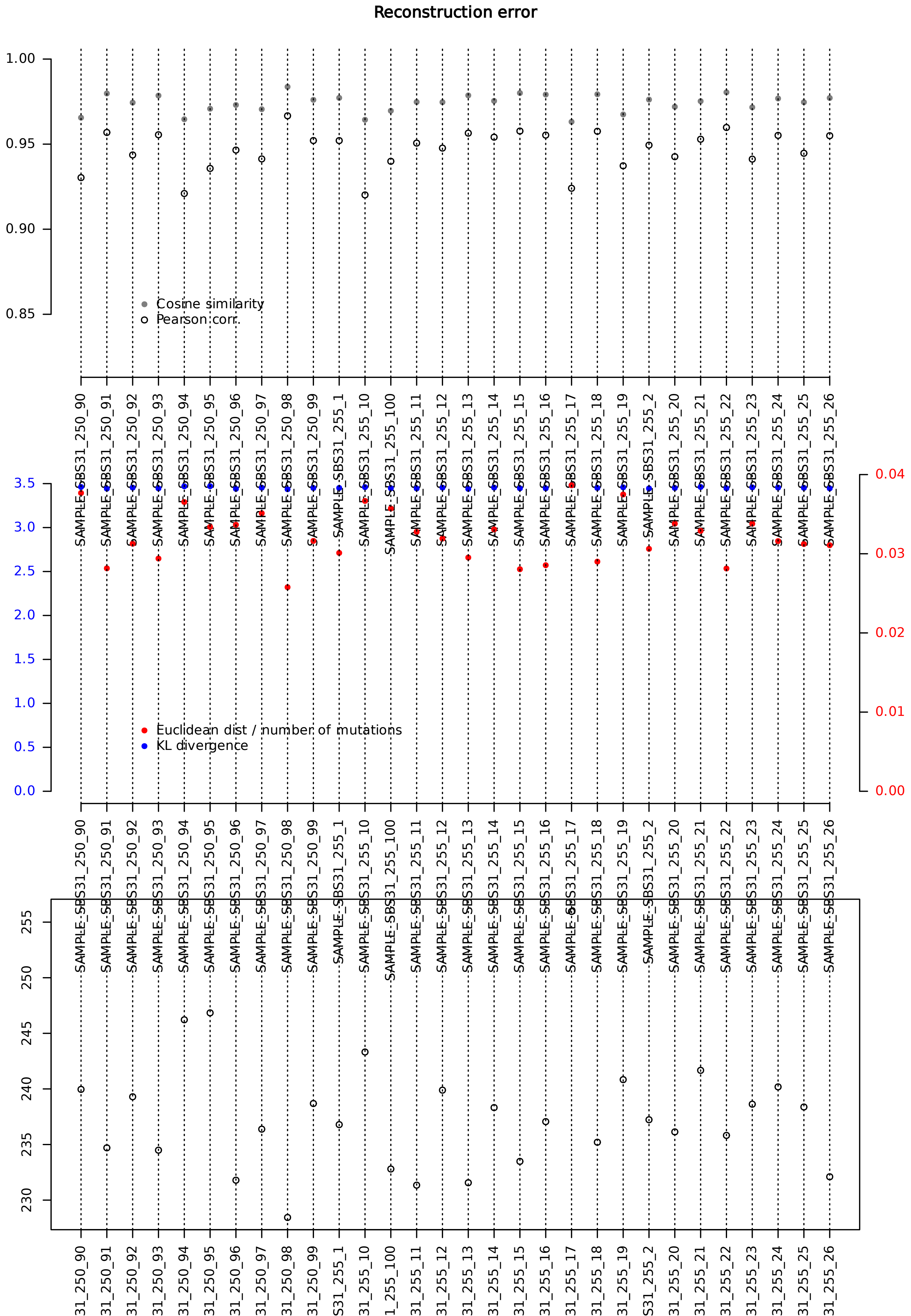

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
SAMPLE-SBS31_245_45
SAMPLE-SBS31_245_46
SAMPLE-SBS31_245_47
SAMPLE-SBS31_245_48
SAMPLE-SBS31_245_49
SAMPLE-SBS31_245_5
SAMPLE-SBS31_245_50
SAMPLE-SBS31_245_51
SAMPLE-SBS31_245_52
SAMPLE-SBS31_245_53
SAMPLE-SBS31_245_54
SAMPLE-SBS31_245_55
SAMPLE-SBS31_245_56
SAMPLE-SBS31_245_57
SAMPLE-SBS31_245_58
SAMPLE-SBS31_245_59
SAMPLE-SBS31_245_6
SAMPLE-SBS31_245_60
SAMPLE-SBS31_245_61
SAMPLE-SBS31_245_62
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
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
245
240
235

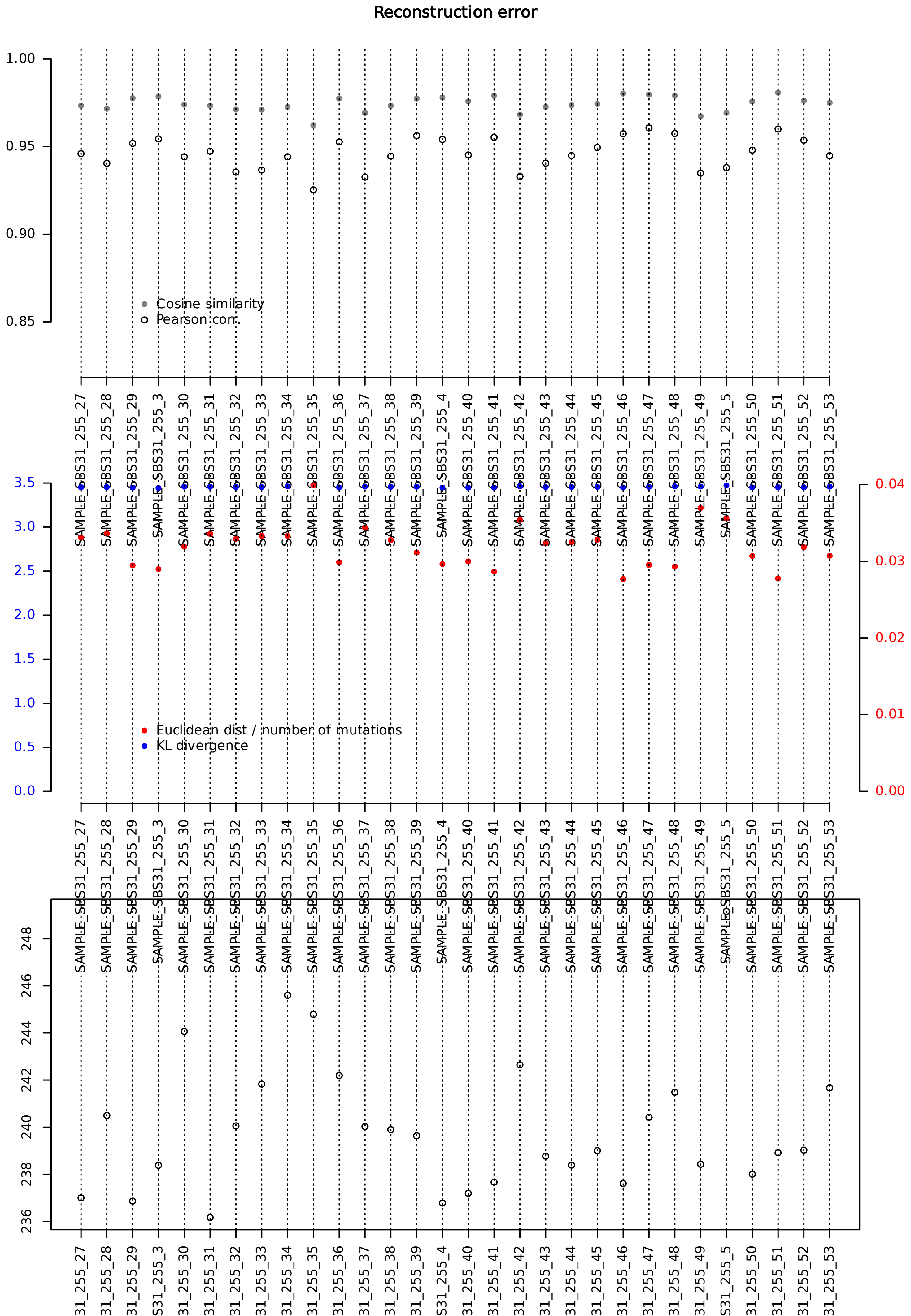

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
245
240
235
SAMPLE-SBS31_245_72
SAMPLE-SBS31_245_73
SAMPLE-SBS31_245_74
SAMPLE-SBS31_245_75
SAMPLE-SBS31_245_76
SAMPLE-SBS31_245_77
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
SAMPLE-SBS31_245_86
SAMPLE-SBS31_245_87
SAMPLE-SBS31_245_88
SAMPLE-SBS31_245_89
SAMPLE-SBS31_245_9
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

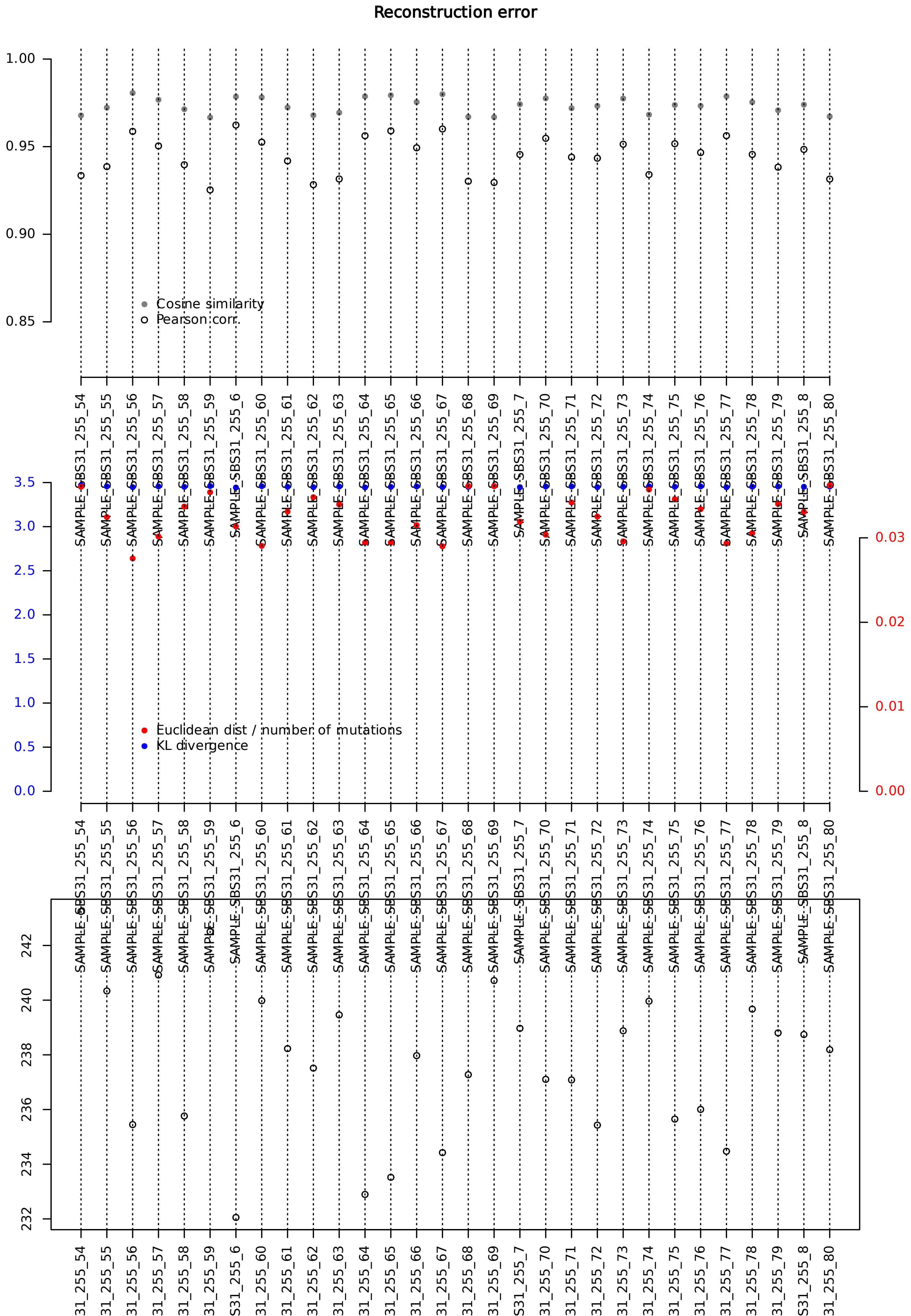

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
245
240
235
230
SAMPLE-SBS31_250_1
SAMPLE-SBS31_250_10
SAMPLE-SBS31_250_100
SAMPLE-SBS31_250_11
SAMPLE-SBS31_250_12
SAMPLE-SBS31_250_13
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
SAMPLE-SBS31_250_22
SAMPLE-SBS31_250_23
SAMPLE-SBS31_250_24
SAMPLE-SBS31_250_25
SAMPLE-SBS31_250_26
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


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
242
240
238
236
234
232
230
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
SAMPLE-SBS31_250_46
SAMPLE-SBS31_250_47
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
SAMPLE-SBS31_250_54
SAMPLE-SBS31_250_55
SAMPLE-SBS31_250_56
SAMPLE-SBS31_250_57
SAMPLE-SBS31_250_58
SAMPLE-SBS31_250_59
SAMPLE-SBS31_250_6
SAMPLE-SBS31_250_60
SAMPLE-SBS31_250_61
SAMPLE-SBS31_250_62


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
SAMPLE-SBS31_250_63
SAMPLE-SBS31_250_64
SAMPLE-SBS31_250_65
SAMPLE-SBS31_250_66
SAMPLE-SBS31_250_67
SAMPLE-SBS31_250_68
SAMPLE-SBS31_250_69
SAMPLE-SBS31_250_7
SAMPLE-SBS31_250_70
SAMPLE-SBS31_250_71
SAMPLE-SBS31_250_72
SAMPLE-SBS31_250_73
SAMPLE-SBS31_250_74
SAMPLE-SBS31_250_75
SAMPLE-SBS31_250_76
SAMPLE-SBS31_250_77
SAMPLE-SBS31_250_78
SAMPLE-SBS31_250_79
SAMPLE-SBS31_250_8
SAMPLE-SBS31_250_80
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
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
244
242
240
238
236
234
232


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
255
250
245
240
235
230
SAMPLE-SBS31_250_90
SAMPLE-SBS31_250_91
SAMPLE-SBS31_250_92
SAMPLE-SBS31_250_93
SAMPLE-SBS31_250_94
SAMPLE-SBS31_250_95
SAMPLE-SBS31_250_96
SAMPLE-SBS31_250_97
SAMPLE-SBS31_250_98
SAMPLE-SBS31_250_99
SAMPLE-SBS31_255_1
SAMPLE-SBS31_255_10
SAMPLE-SBS31_255_100
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
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


Reconstruction error


Reconstruction error
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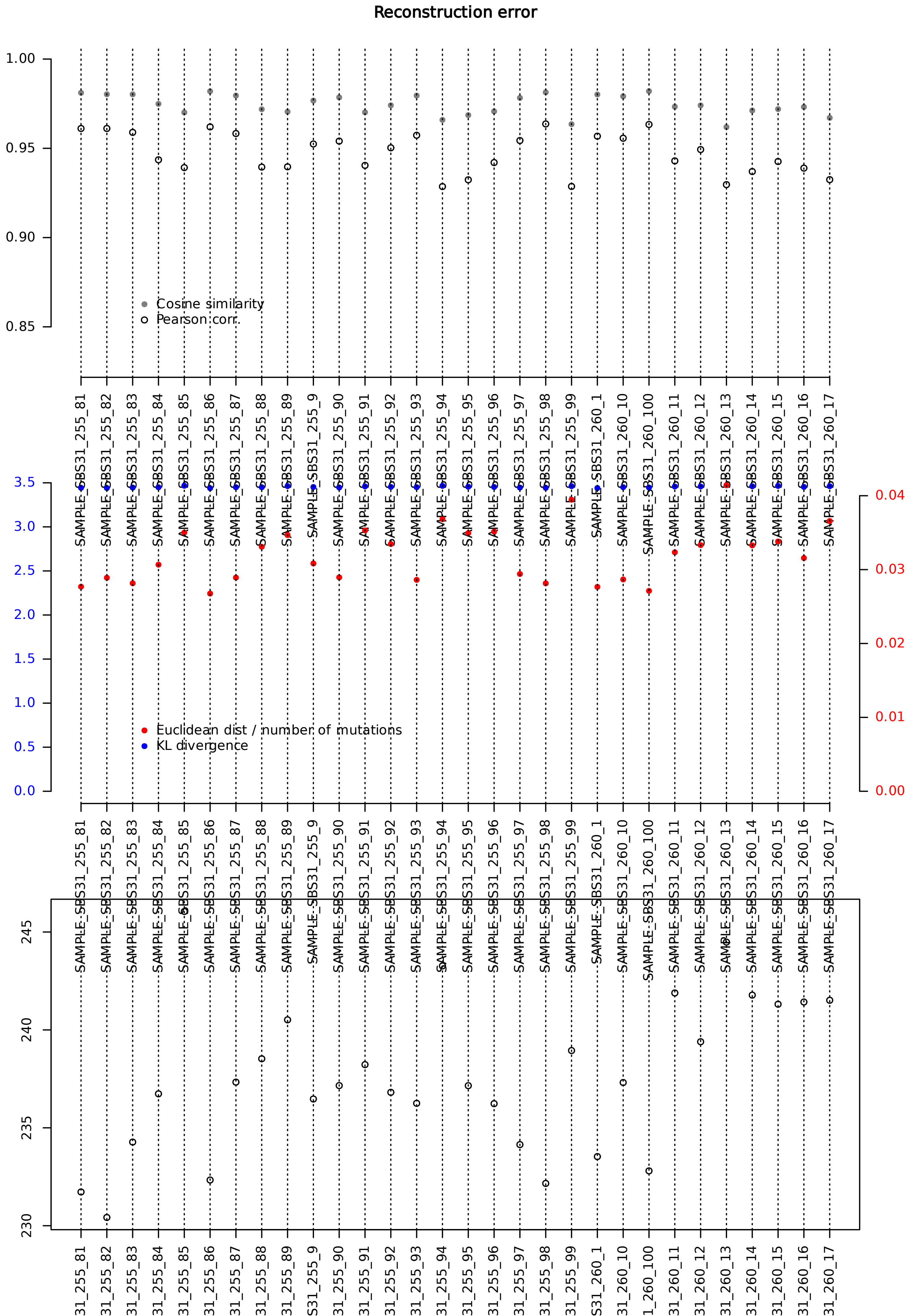
0.95
0.90
0.85
Cosine similarity
Pearson corr.
SAMPLE-SBS31_255_54
SAMPLE-SBS31_255_55
SAMPLE-SBS31_255_56
SAMPLE-SBS31_255_57
SAMPLE-SBS31_255_58
SAMPLE-SBS31_255_59
SAMPLE-SBS31_255_6
SAMPLE-SBS31_255_60
SAMPLE-SBS31_255_61
SAMPLE-SBS31_255_62
SAMPLE-SBS31_255_63
SAMPLE-SBS31_255_64
SAMPLE-SBS31_255_65
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
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
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
242
240
238
236
234
232


Reconstruction error
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0.90
0.85
Cosine similarity
Pearson corr.
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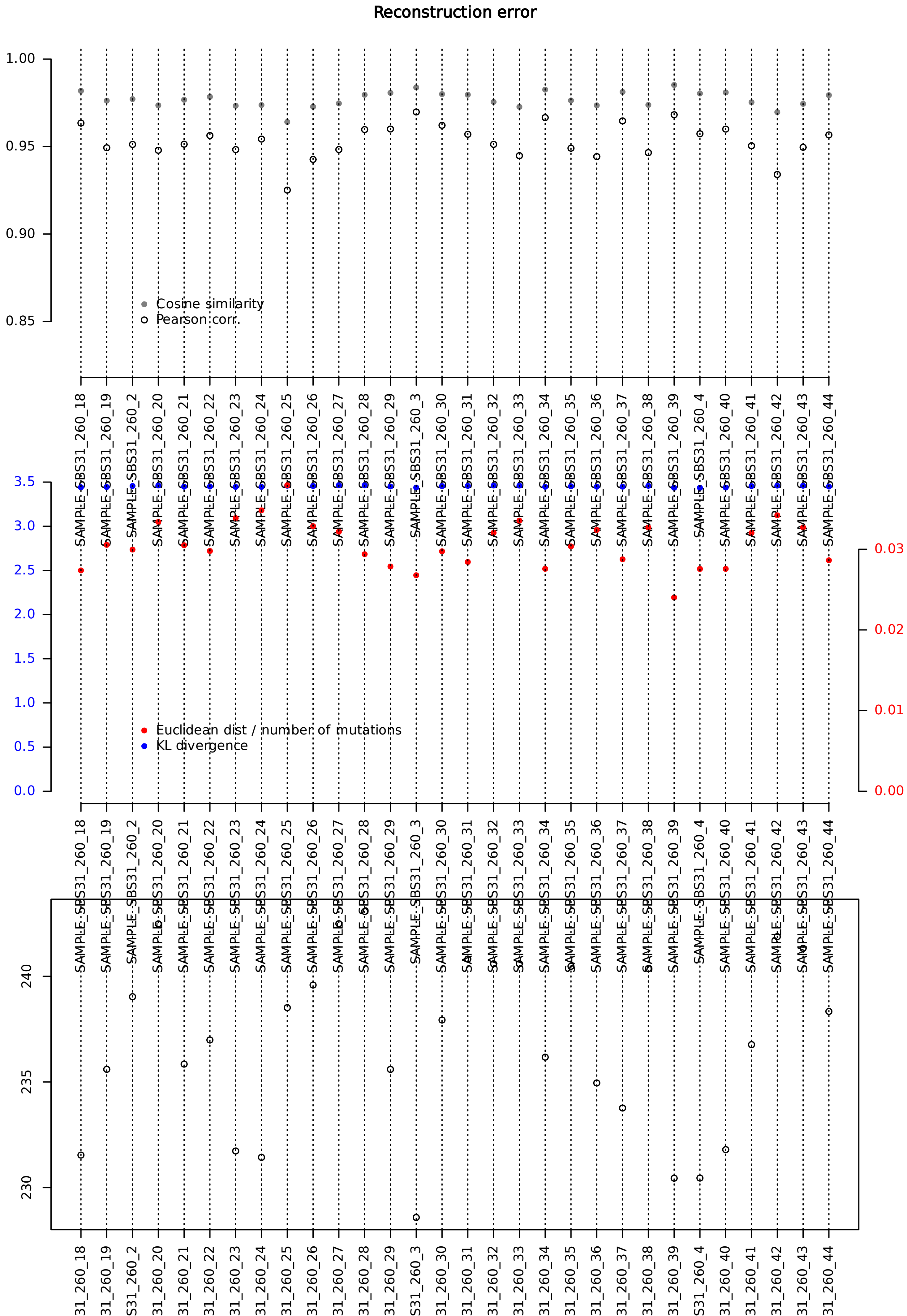
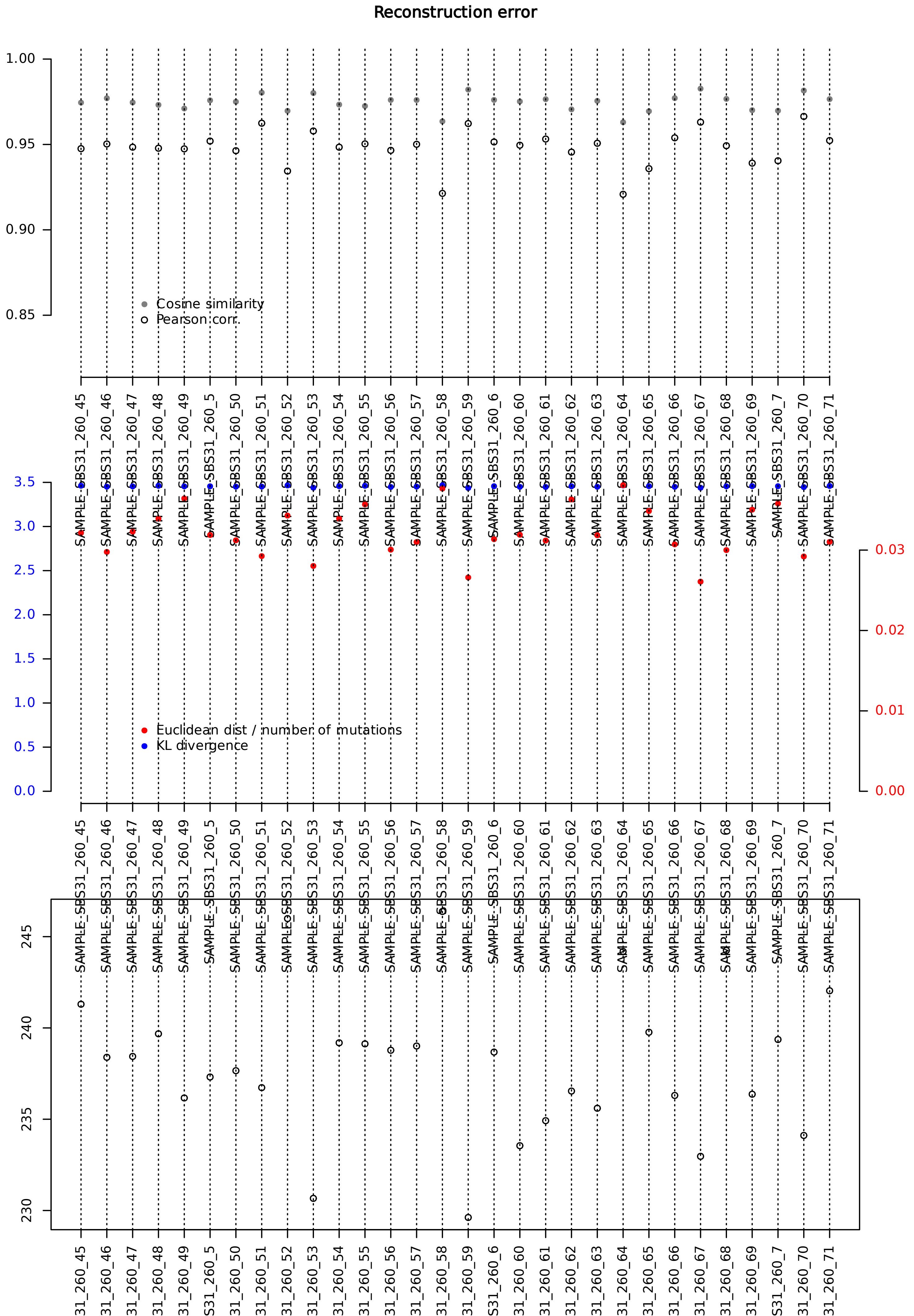
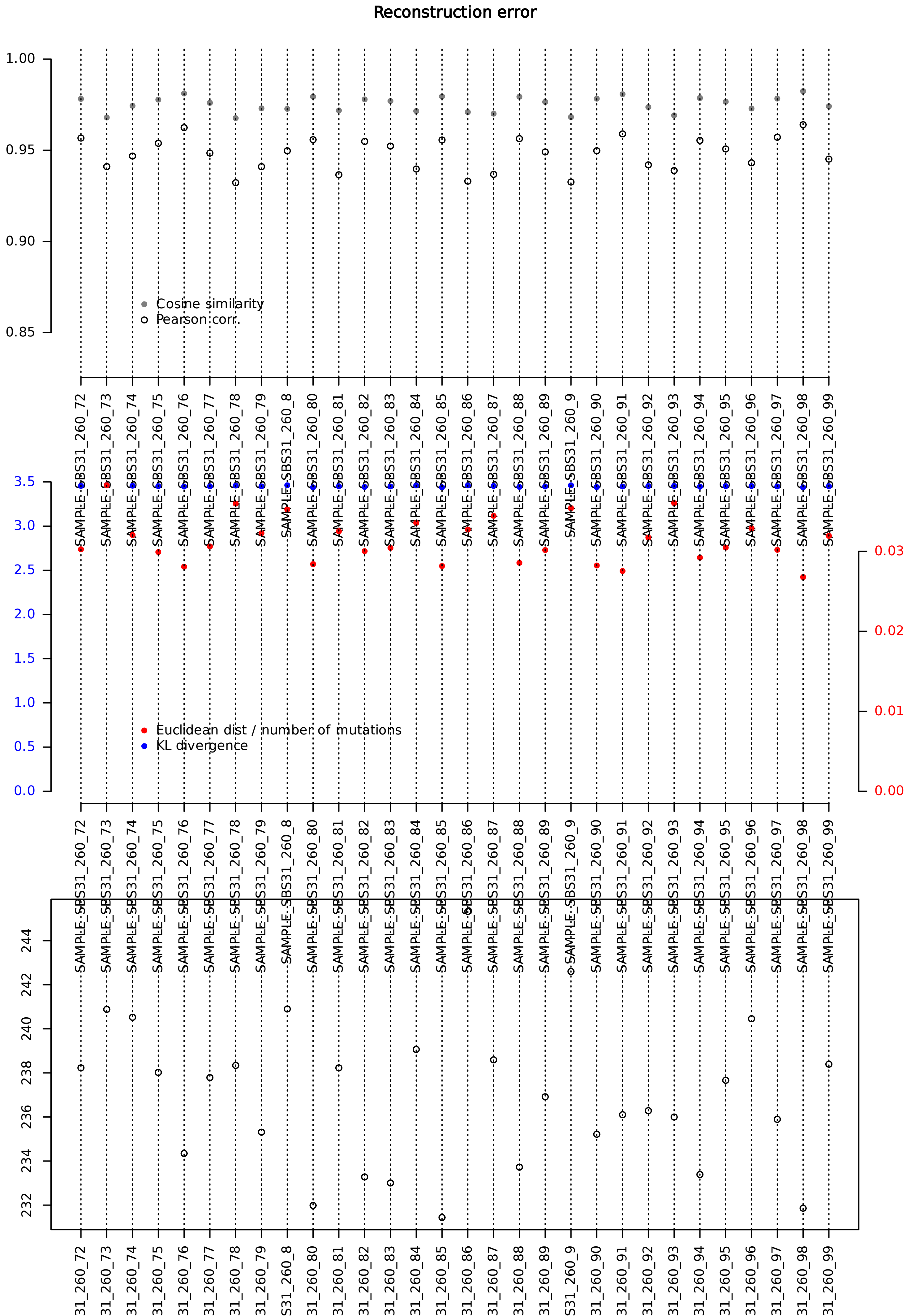
SAMPLE-SBS31_255_82
SAMPLE-SBS31_255_83
SAMPLE-SBS31_255_84
SAMPLE-SBS31_255_85
SAMPLE-SBS31_255_86
SAMPLE-SBS31_255_87
SAMPLE-SBS31_255_88
SAMPLE-SBS31_255_89
SAMPLE-SBS31_255_9
SAMPLE-SBS31_255_90
SAMPLE-SBS31_255_91
SAMPLE-SBS31_255_92
SAMPLE-SBS31_255_93
SAMPLE-SBS31_255_94
SAMPLE-SBS31_255_95
SAMPLE-SBS31_255_96
SAMPLE-SBS31_255_97
SAMPLE-SBS31_255_98
SAMPLE-SBS31_255_99
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
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


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
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
240
235
230
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
SAMPLE-SBS31_260_27
SAMPLE-SBS31_260_28
SAMPLE-SBS31_260_29
SAMPLE-SBS31_260_3
SAMPLE-SBS31_260_30
SAMPLE-SBS31_260_31
SAMPLE-SBS31_260_32
SAMPLE-SBS31_260_33
SAMPLE-SBS31_260_34
SAMPLE-SBS31_260_35
SAMPLE-SBS31_260_36
SAMPLE-SBS31_260_37
SAMPLE-SBS31_260_38
SAMPLE-SBS31_260_39
SAMPLE-SBS31_260_4
SAMPLE-SBS31_260_40
SAMPLE-SBS31_260_41
SAMPLE-SBS31_260_42
SAMPLE-SBS31_260_43
SAMPLE-SBS31_260_44


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
SAMPLE-SBS31_260_45
SAMPLE-SBS31_260_46
SAMPLE-SBS31_260_47
SAMPLE-SBS31_260_48
SAMPLE-SBS31_260_49
SAMPLE-SBS31_260_5
SAMPLE-SBS31_260_50
SAMPLE-SBS31_260_51
SAMPLE-SBS31_260_52
SAMPLE-SBS31_260_53
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
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
245
240
235
230


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
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
244
242
240
238
236
234
232
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
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
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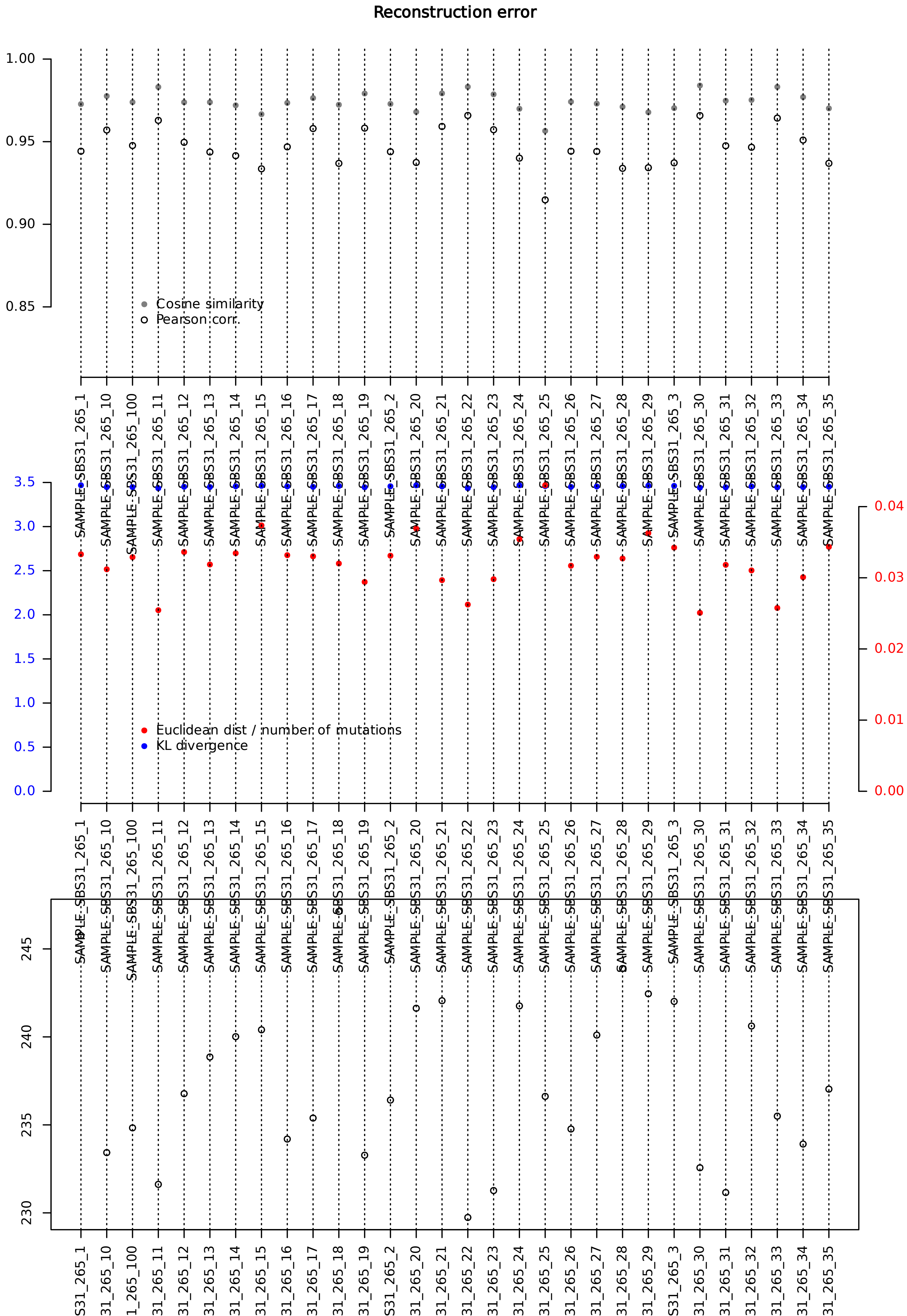
SAMPLE-SBS31_260_96
SAMPLE-SBS31_260_97
SAMPLE-SBS31_260_98
SAMPLE-SBS31_260_99


Reconstruction error
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0.95
0.90
0.85
Cosine similarity
Pearson corr.
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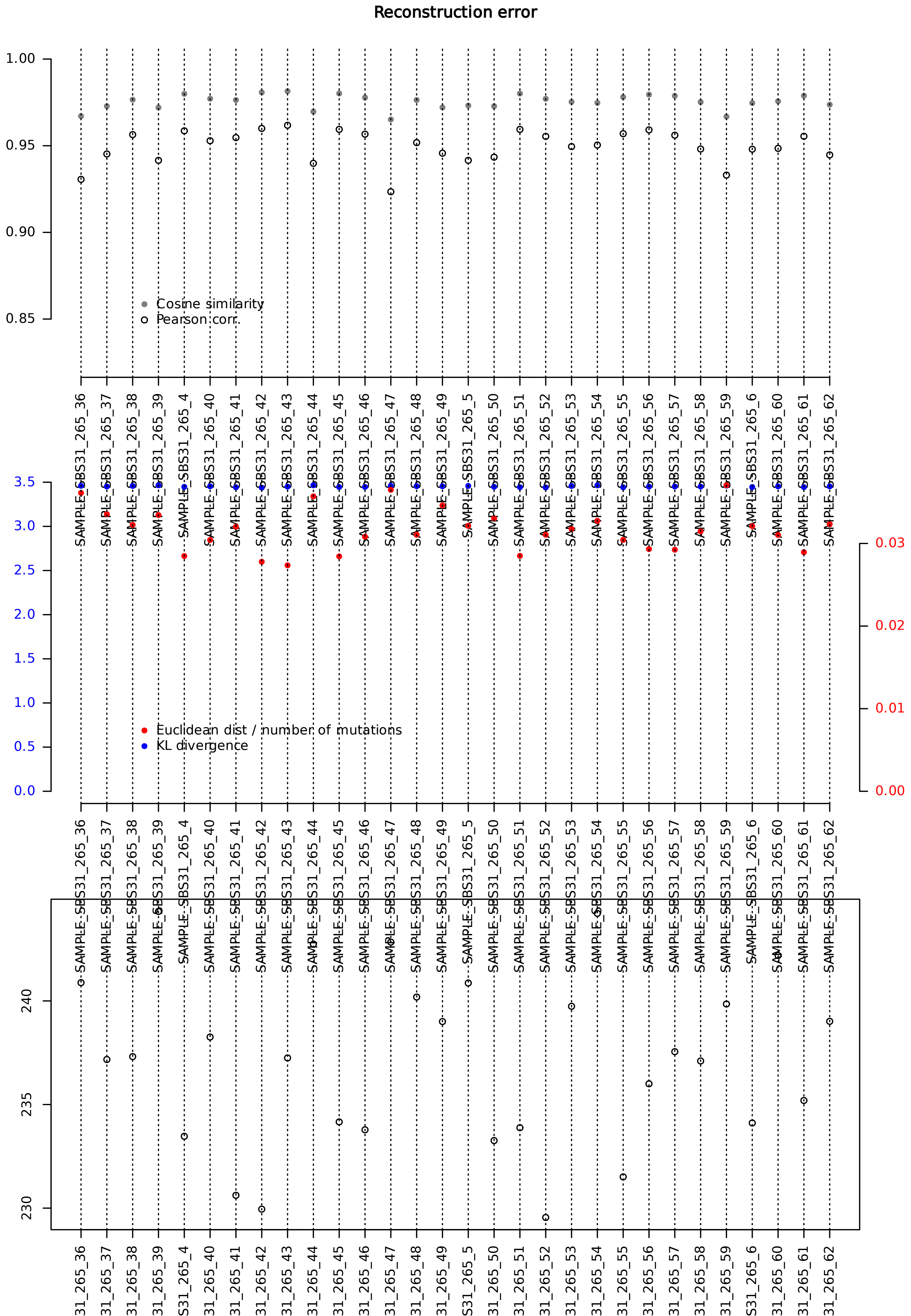
SAMPLE-SBS31_265_10
SAMPLE-SBS31_265_100
SAMPLE-SBS31_265_11
SAMPLE-SBS31_265_12
SAMPLE-SBS31_265_13
SAMPLE-SBS31_265_14
SAMPLE-SBS31_265_15
SAMPLE-SBS31_265_16
SAMPLE-SBS31_265_17
SAMPLE-SBS31_265_18
SAMPLE-SBS31_265_19
SAMPLE-SBS31_265_2
SAMPLE-SBS31_265_20
SAMPLE-SBS31_265_21
SAMPLE-SBS31_265_22
SAMPLE-SBS31_265_23
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
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


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
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
240
235
230
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
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
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SAMPLE-SBS31_265_6
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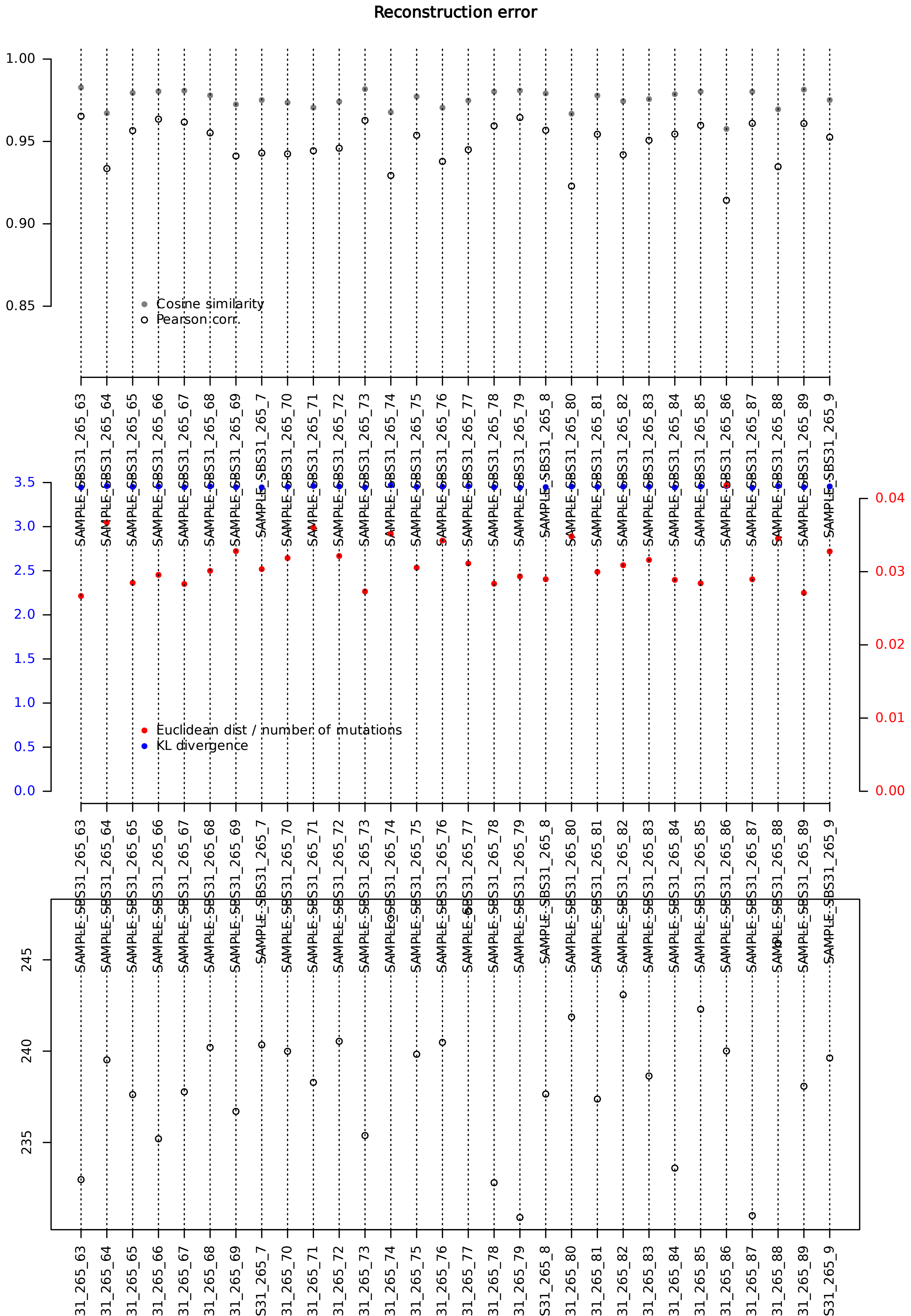
SAMPLE-SBS31_265_61
SAMPLE-SBS31_265_62


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
245
240
235
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
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
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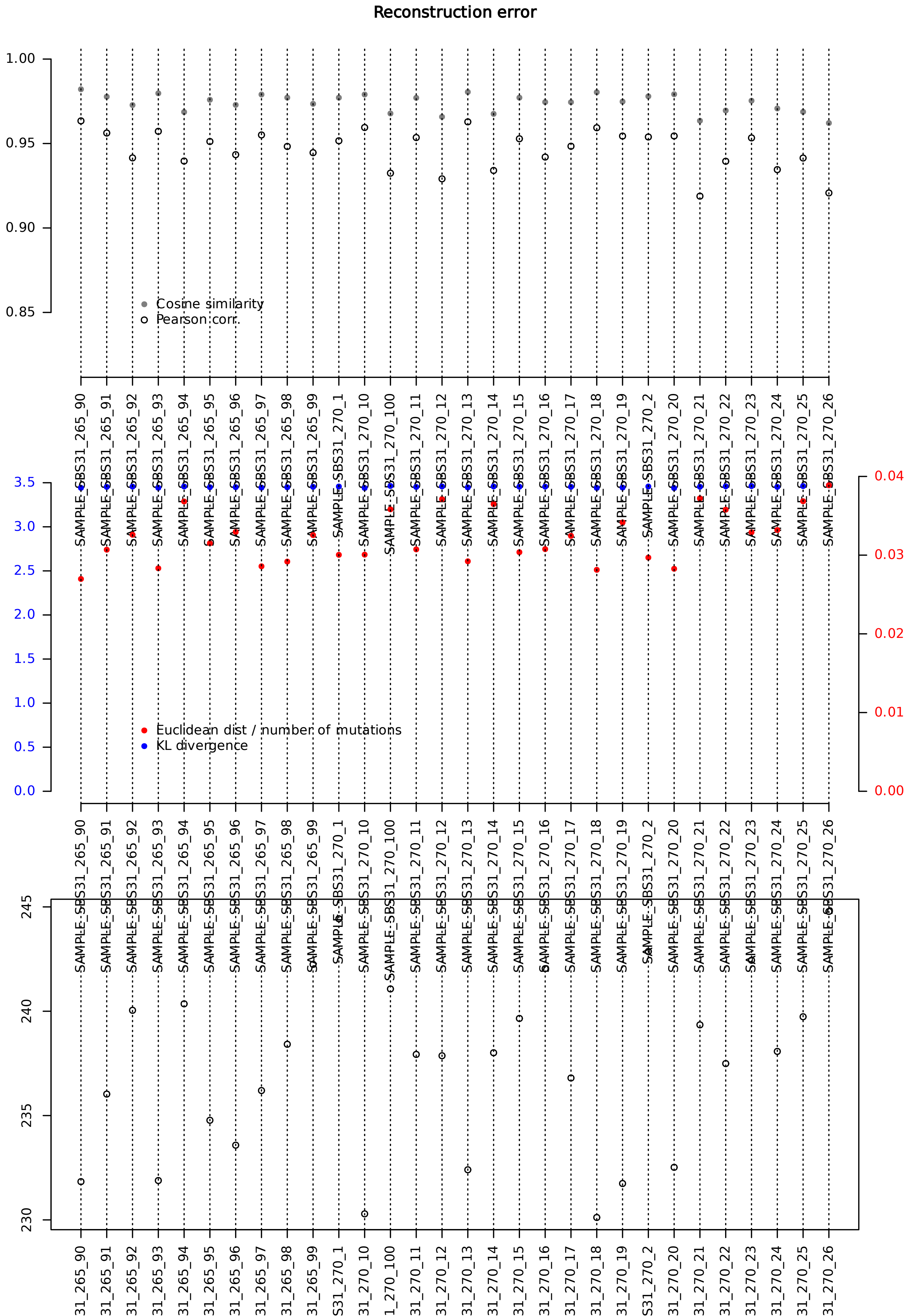
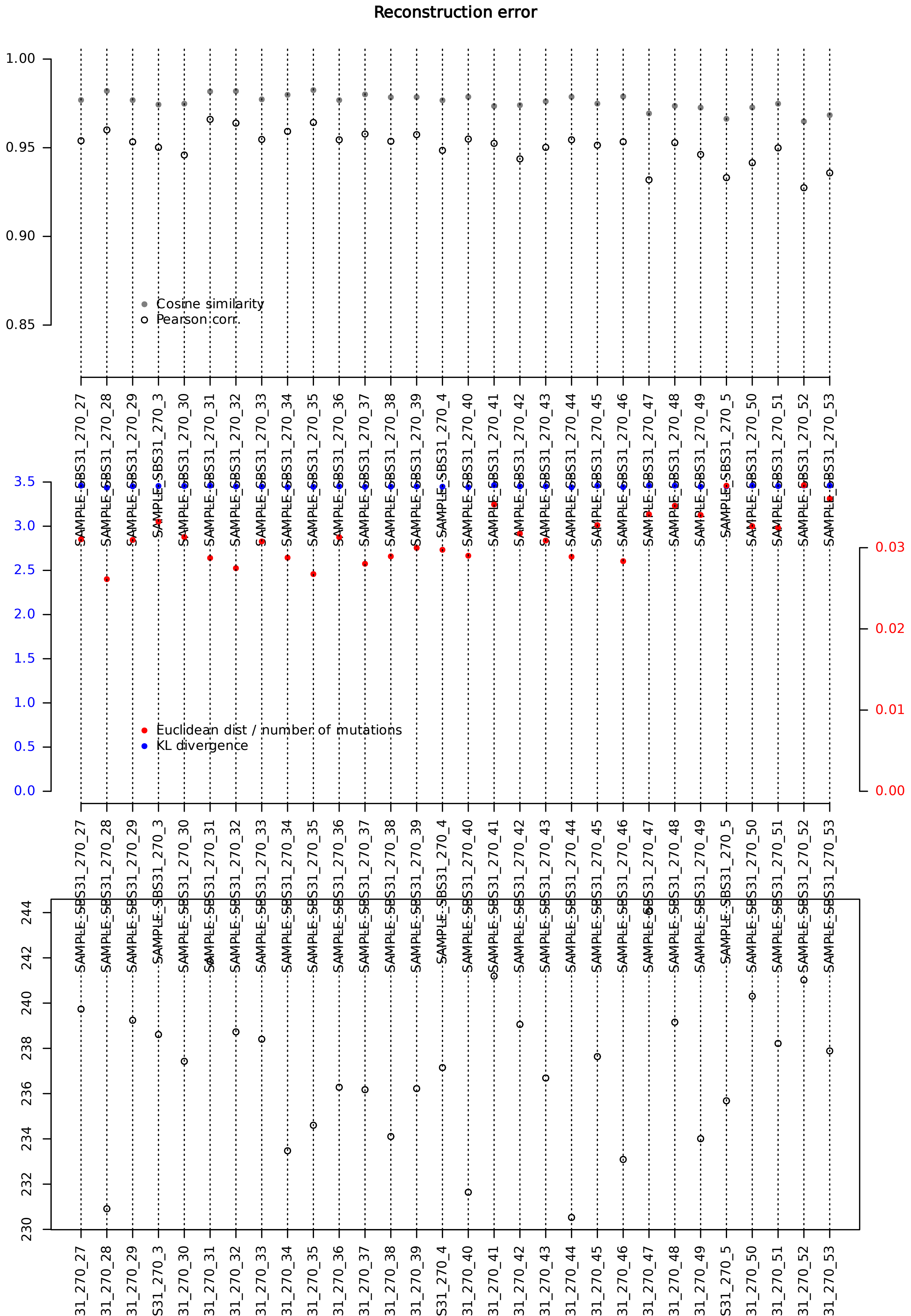
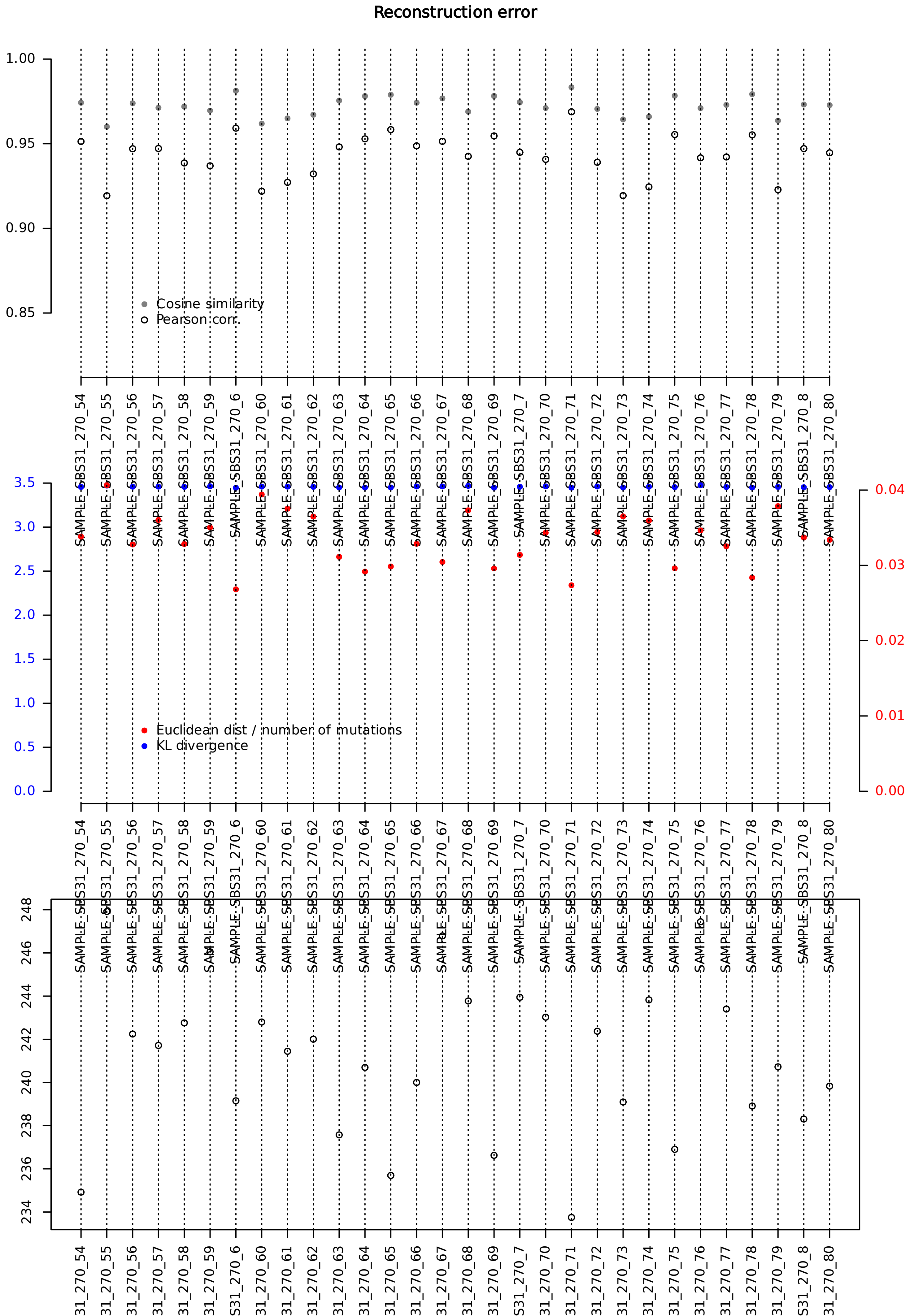
SAMPLE-SBS31_265_88
SAMPLE-SBS31_265_89
SAMPLE-SBS31_265_9


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
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
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
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


Reconstruction error


Reconstruction error
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0.90
0.85
Cosine similarity
Pearson corr.
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
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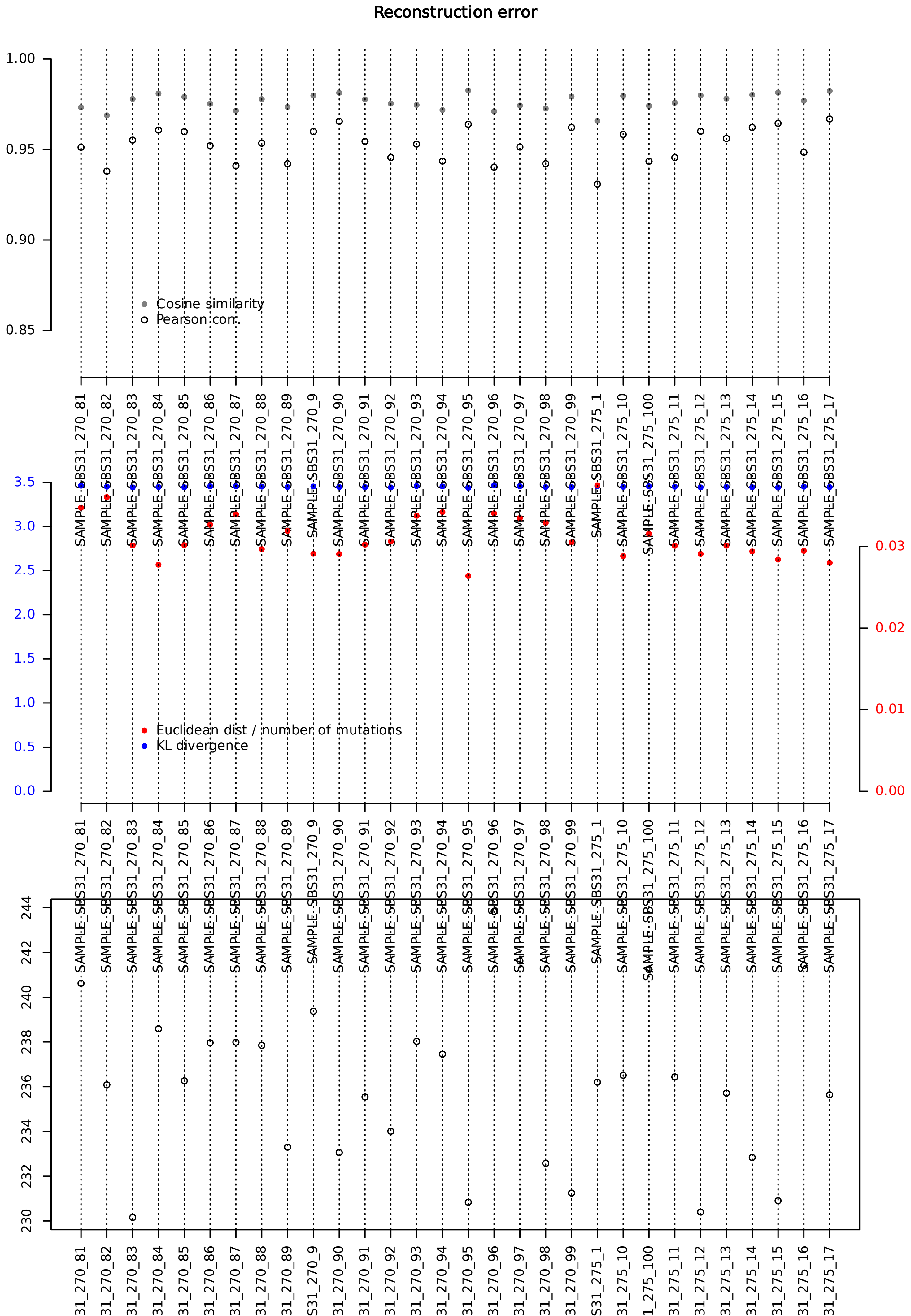
SAMPLE_SBS31_270_76
SAMPLE_SBS31_270_77
SAMPLE_SBS31_270_78
SAMPLE_SBS31_270_79
SAMPLE_SBS31_270_8
SAMPLE_SBS31_270_80
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
248
246
244
242
240
238
236
234


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
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
244
242
240
238
236
234
232
230
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
SAMPLE-SBS31_270_90
SAMPLE-SBS31_270_91
SAMPLE-SBS31_270_92
SAMPLE-SBS31_270_93
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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
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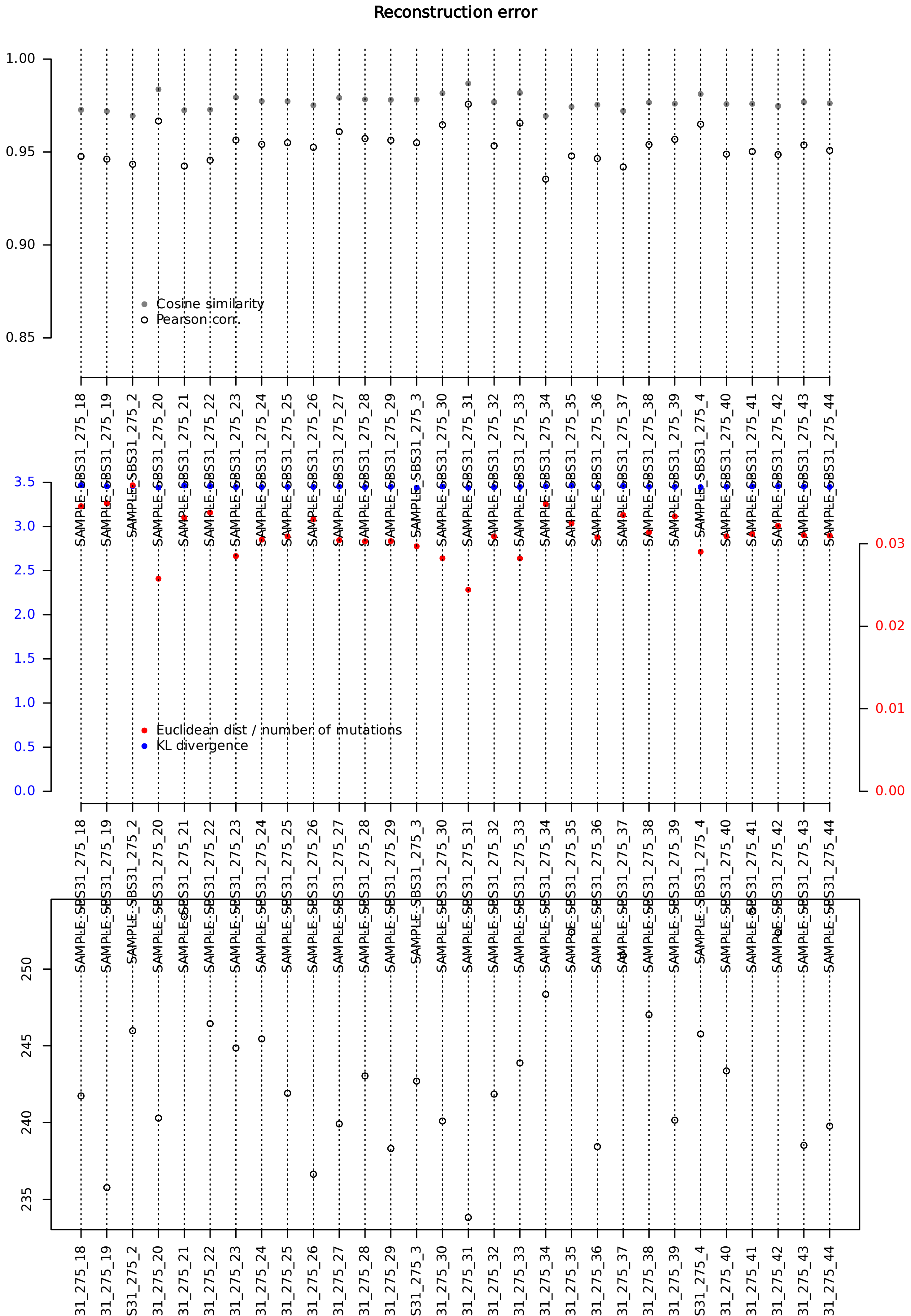
SAMPLE-SBS31_275_16
SAMPLE-SBS31_275_17


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
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
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
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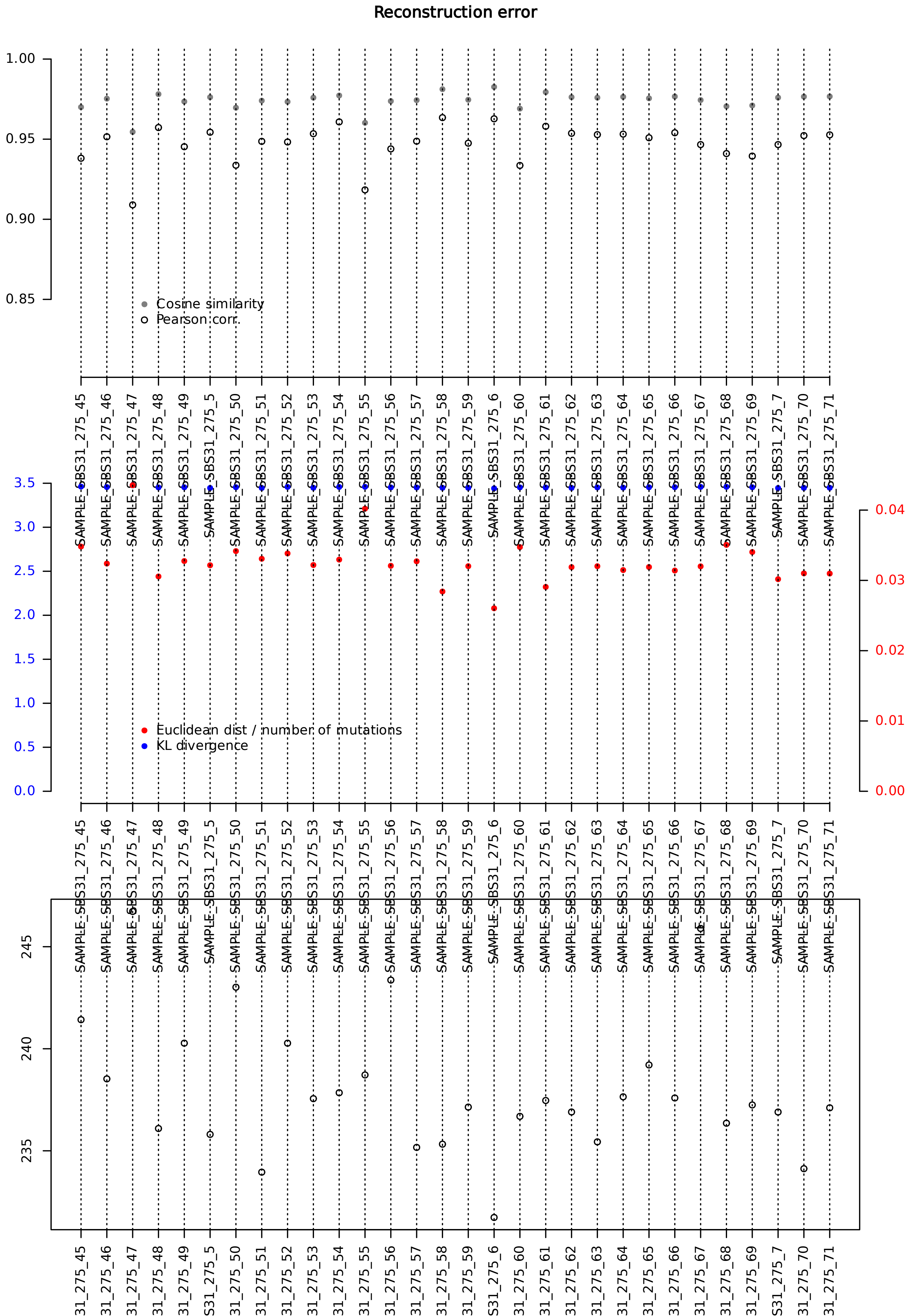
SAMPLE-SBS31_275_43
SAMPLE-SBS31_275_44
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
250
245
240
235


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
245
240
235
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
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
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SAMPLE-SBS31_275_70
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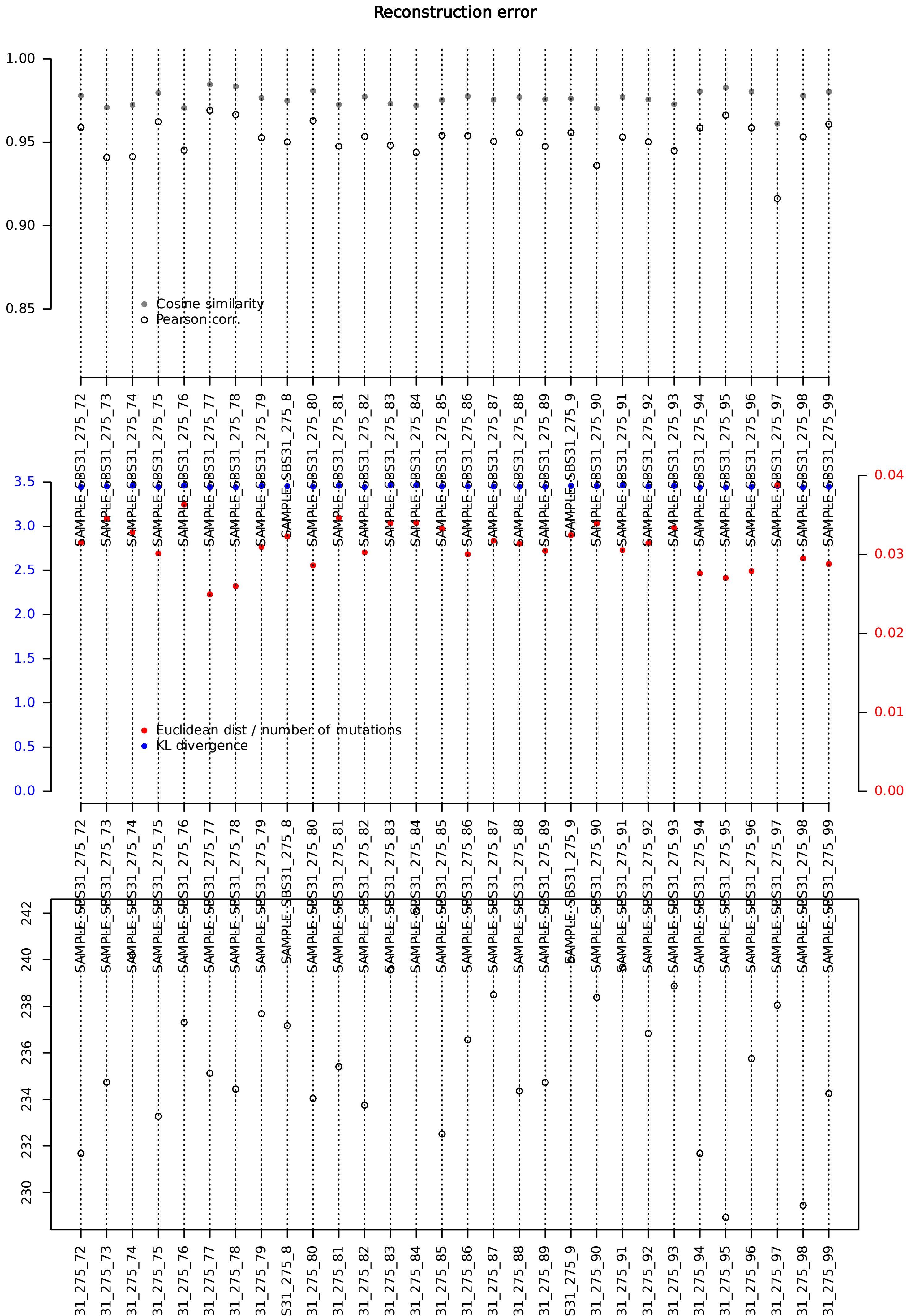
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0.85
Cosine similarity
Pearson corr.
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3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
242
240
238
236
234
232
230
SAMPLE-SBS31_275_72
SAMPLE-SBS31_275_73
SAMPLE-SBS31_275_74
SAMPLE-SBS31_275_75
SAMPLE-SBS31_275_76
SAMPLE-SBS31_275_77
SAMPLE-SBS31_275_78
SAMPLE-SBS31_275_79
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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
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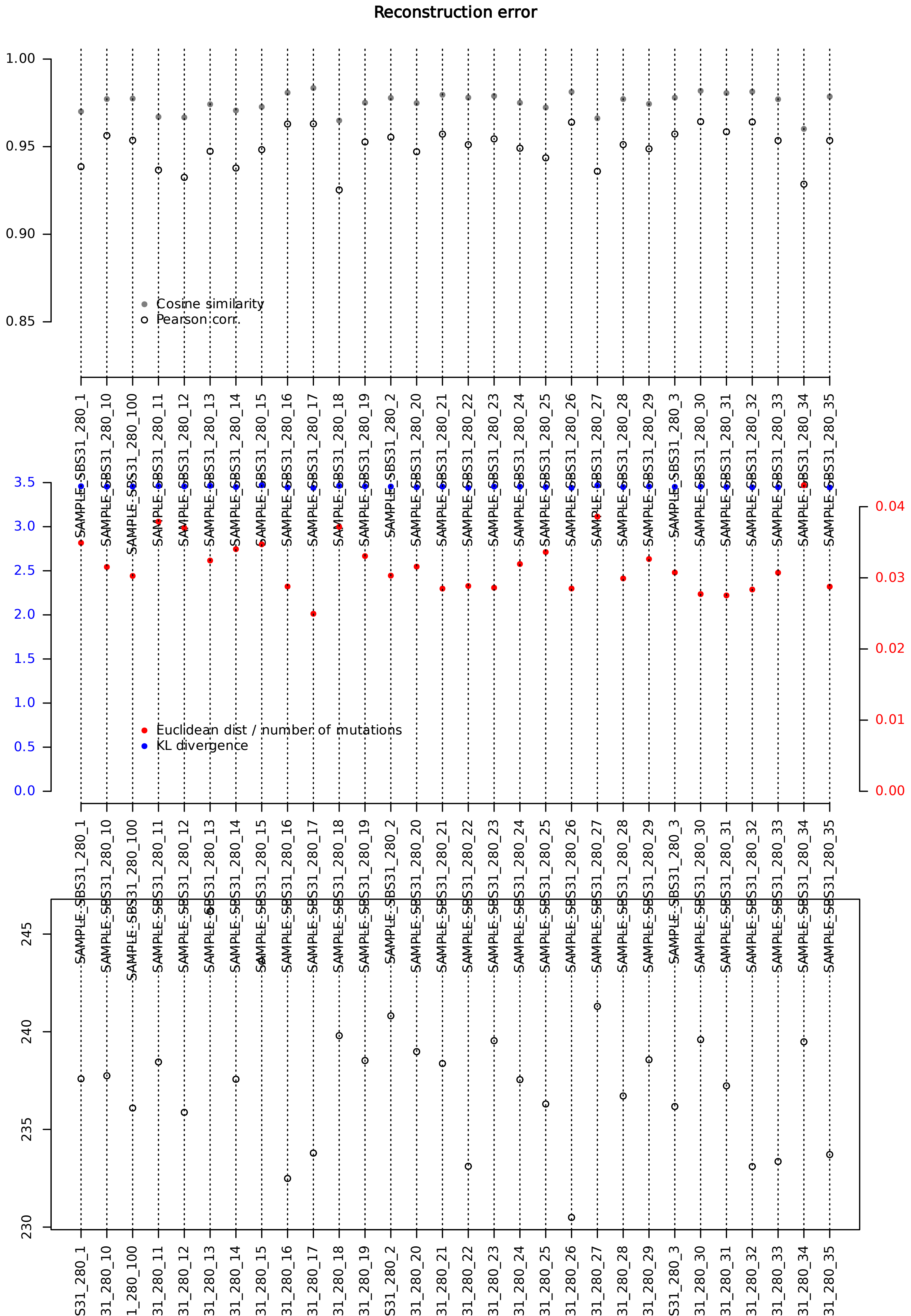
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Cosine similarity
Pearson corr.
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SAMPLE-SBS31_280_100
SAMPLE-SBS31_280_11
SAMPLE-SBS31_280_12
SAMPLE-SBS31_280_13
SAMPLE-SBS31_280_14
SAMPLE-SBS31_280_15
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SAMPLE-SBS31_280_17
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
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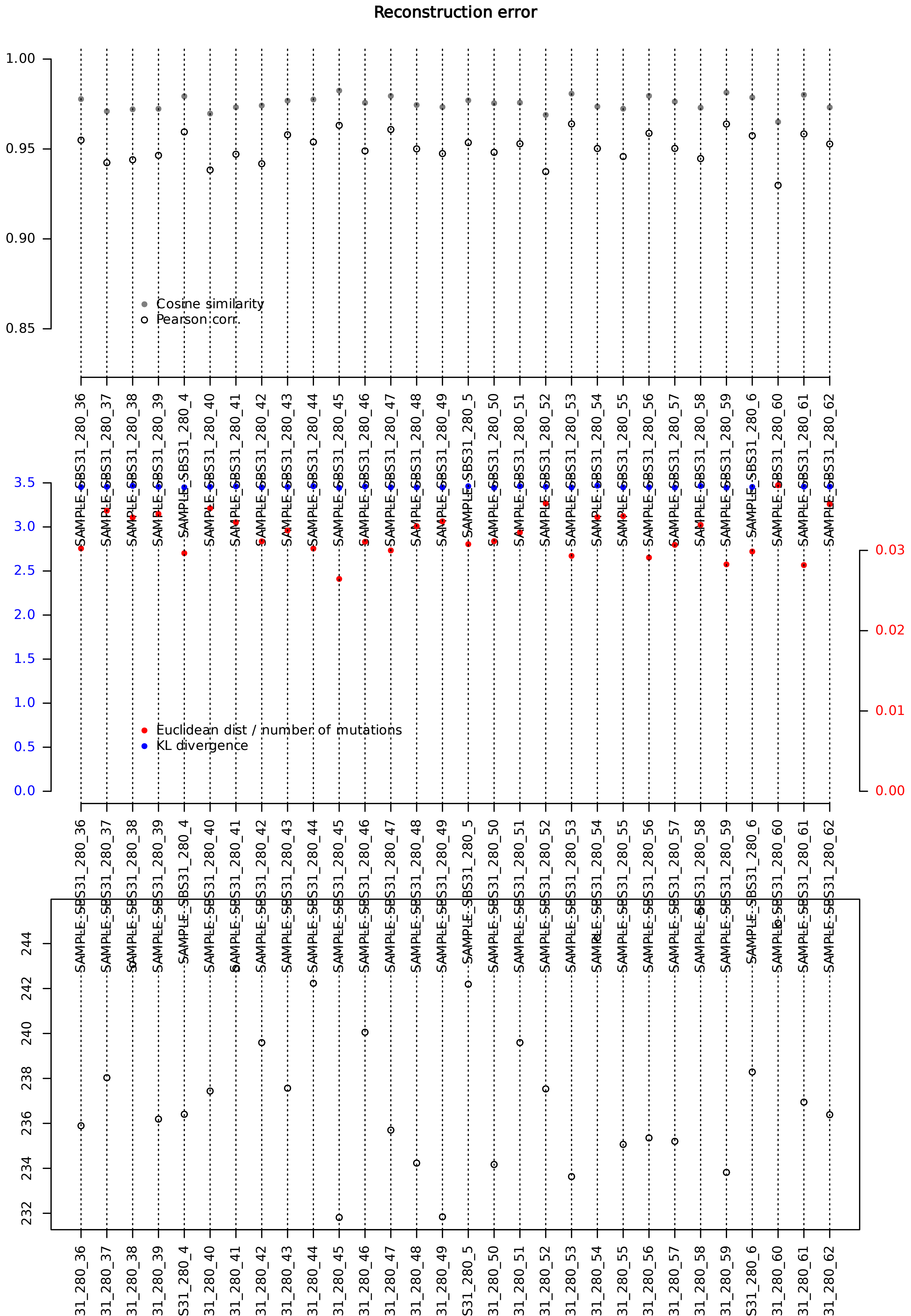
SAMPLE-SBS31_280_28
SAMPLE-SBS31_280_29
SAMPLE-SBS31_280_3
SAMPLE-SBS31_280_30
SAMPLE-SBS31_280_31
SAMPLE-SBS31_280_32
SAMPLE-SBS31_280_33
SAMPLE-SBS31_280_34
SAMPLE-SBS31_280_35
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
245
240
235
230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Cosine similarity
Pearson corr.
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2.5
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1.5
1.0
0.5
0.0
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
244
242
240
238
236
234
232
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
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
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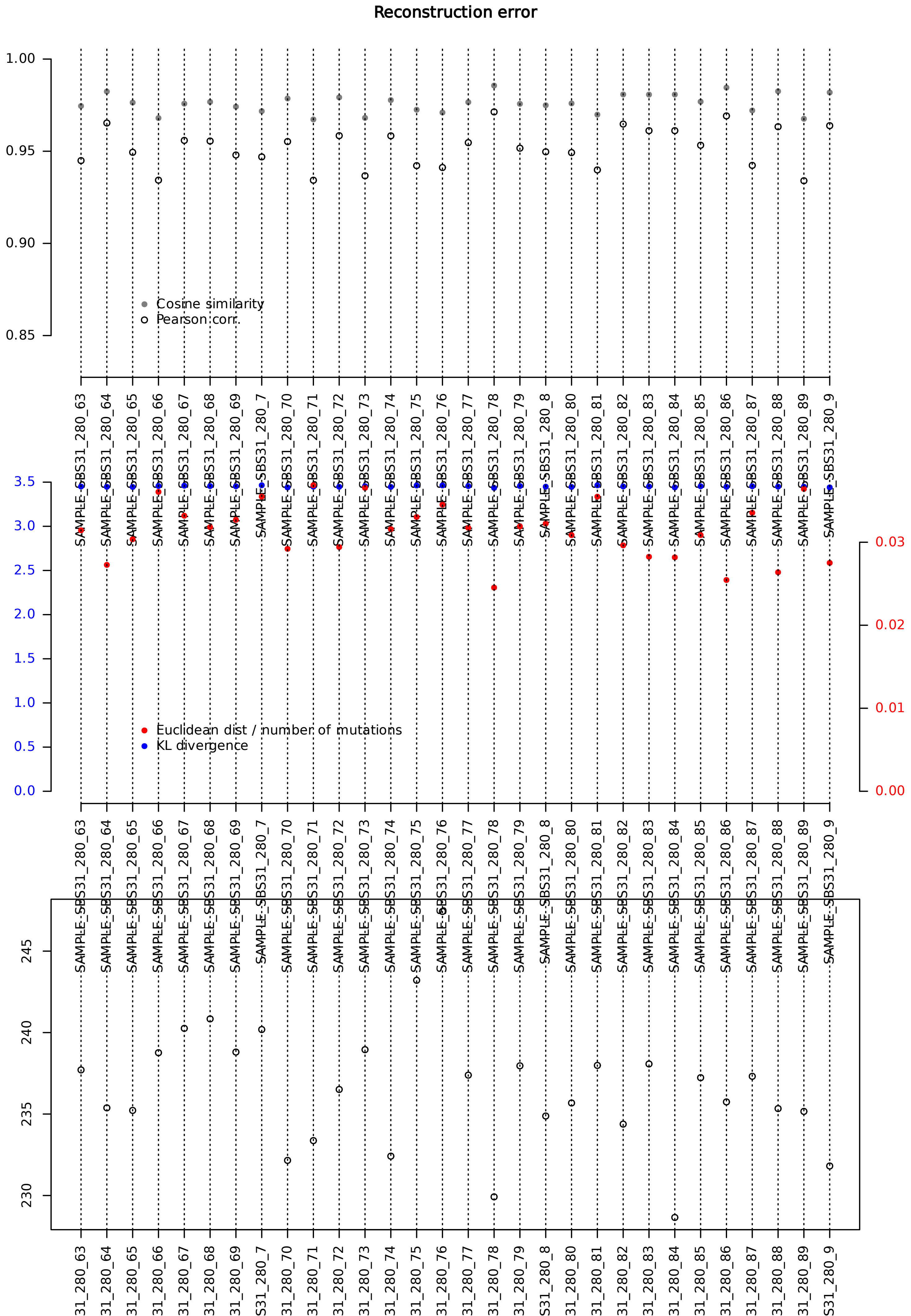
SAMPLE-SBS31_280_61
SAMPLE-SBS31_280_62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0.85
Cosine similarity
Pearson corr.
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3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
245
240
235
230
SAMPLE-SBS31_280_63
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
SAMPLE-SBS31_280_72
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SAMPLE-SBS31_280_74
SAMPLE-SBS31_280_75
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SAMPLE-SBS31_280_81
SAMPLE-SBS31_280_82
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SAMPLE-SBS31_280_84
SAMPLE-SBS31_280_85
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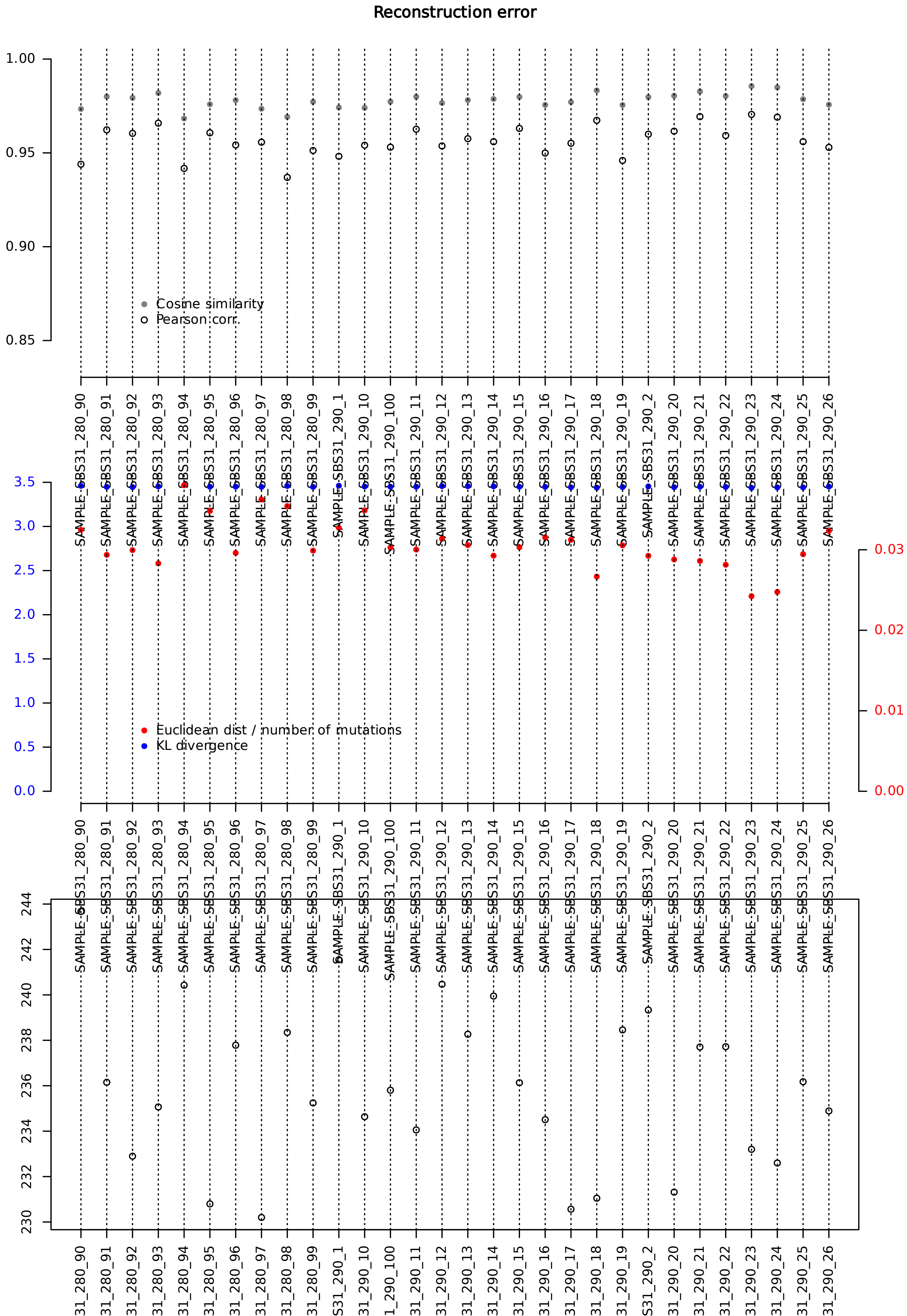
SAMPLE-SBS31_280_89
SAMPLE-SBS31_280_9


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
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
244
242
240
238
236
234
232
230
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
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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
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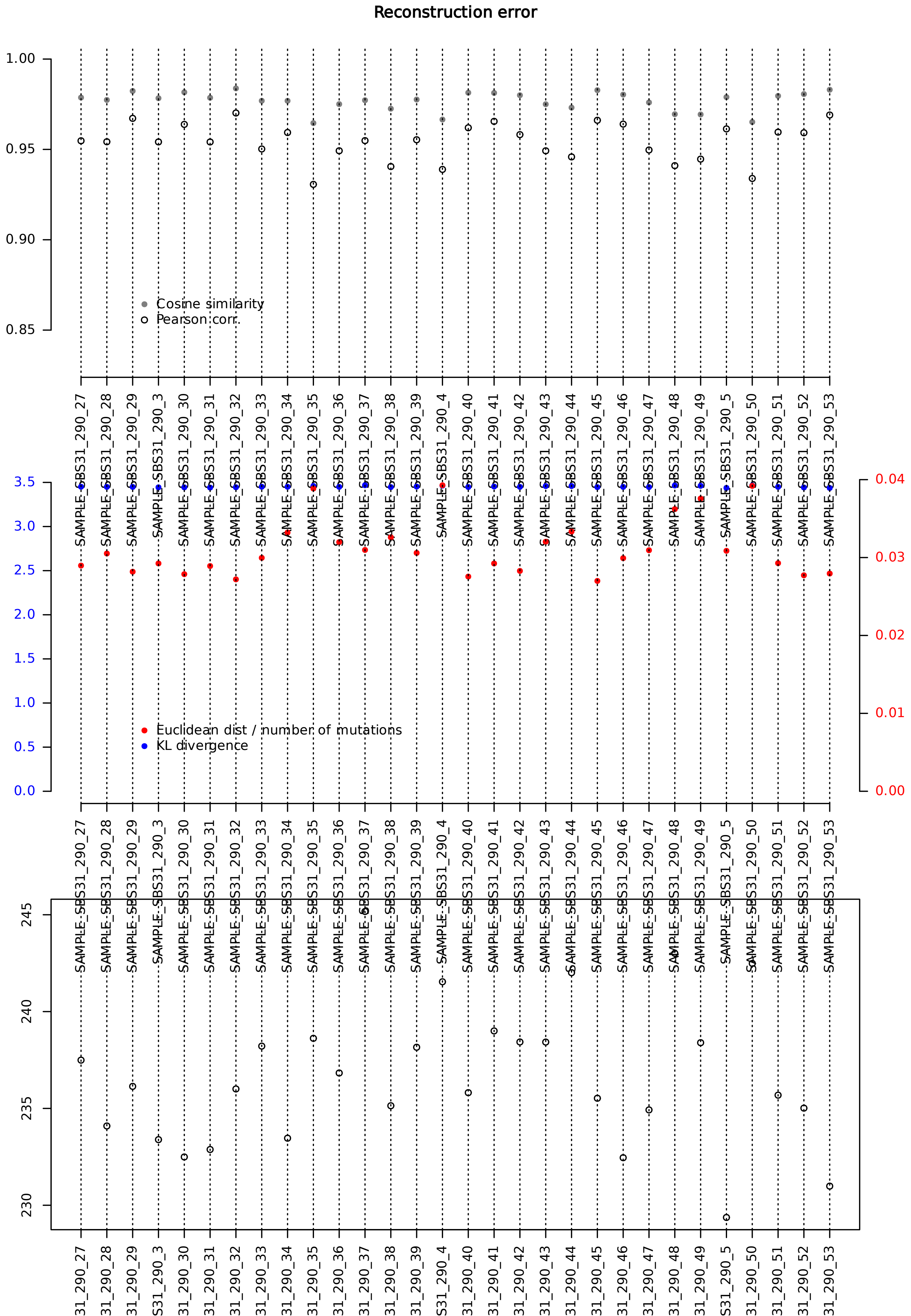
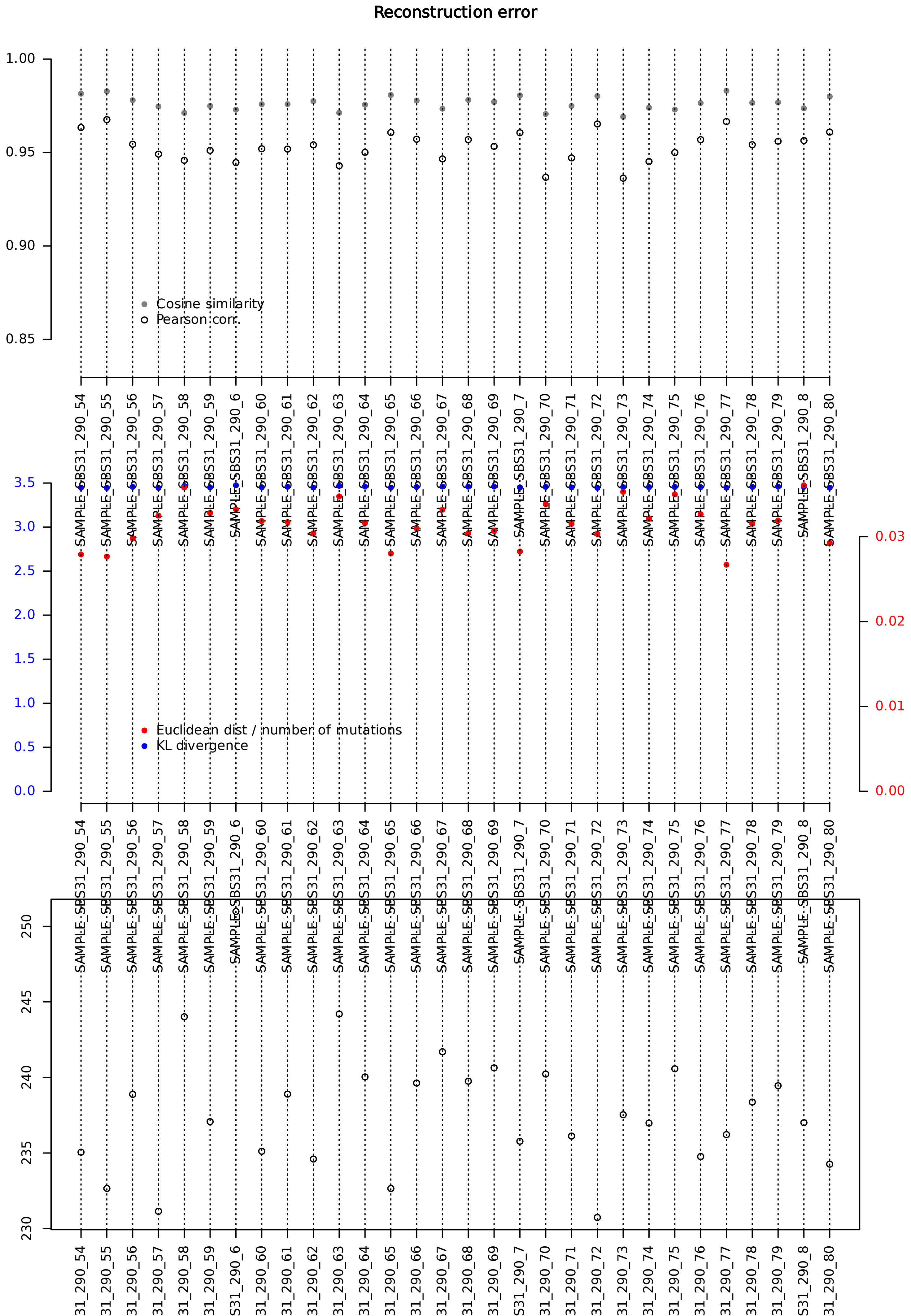


Reconstruction error


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
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
250
245
240
235
230
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
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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
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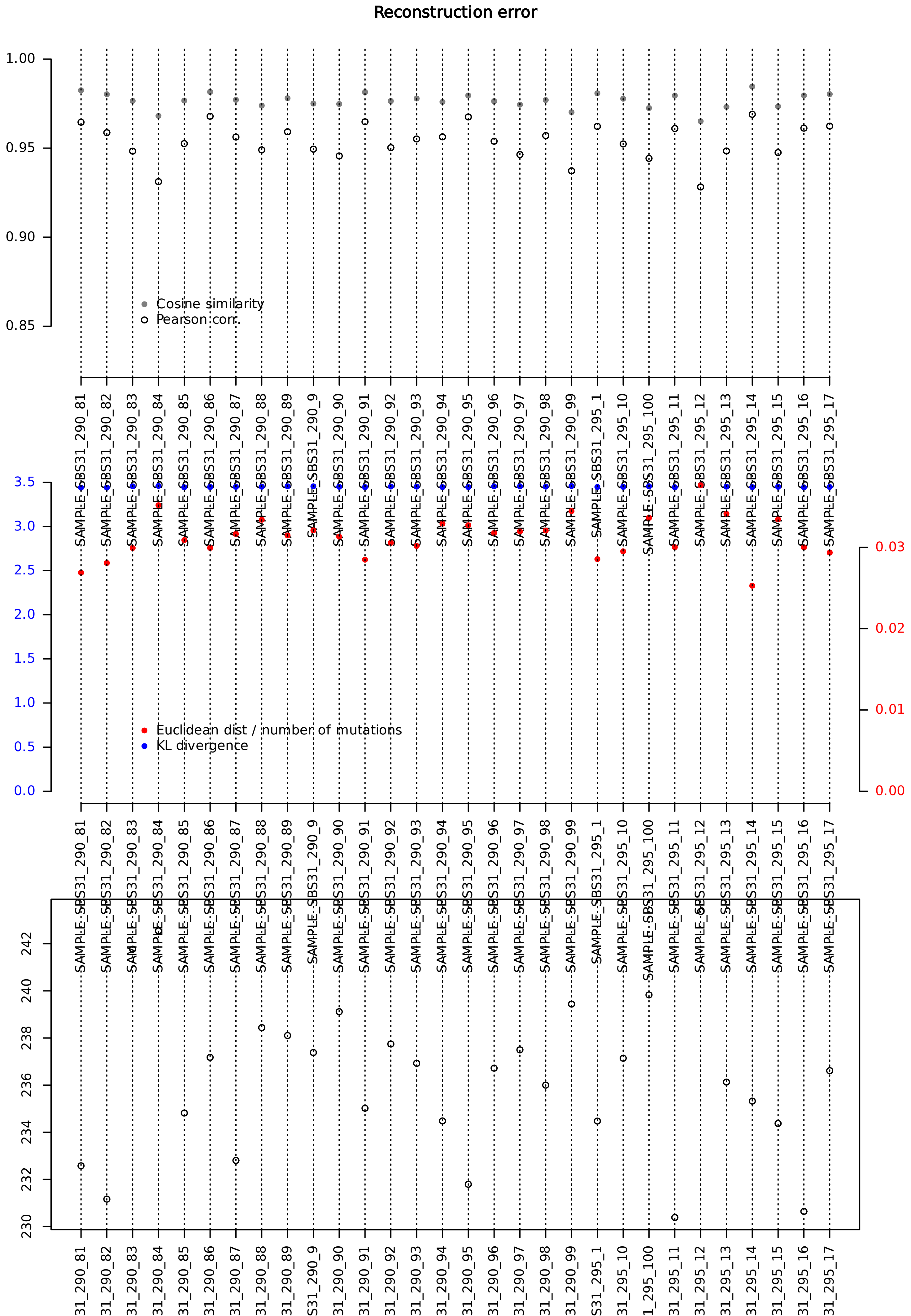
SAMPLE-SBS31_290_8
SAMPLE-SBS31_290_80


Reconstruction error
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0.95
0.90
0.85
Cosine similarity
Pearson corr.
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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
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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
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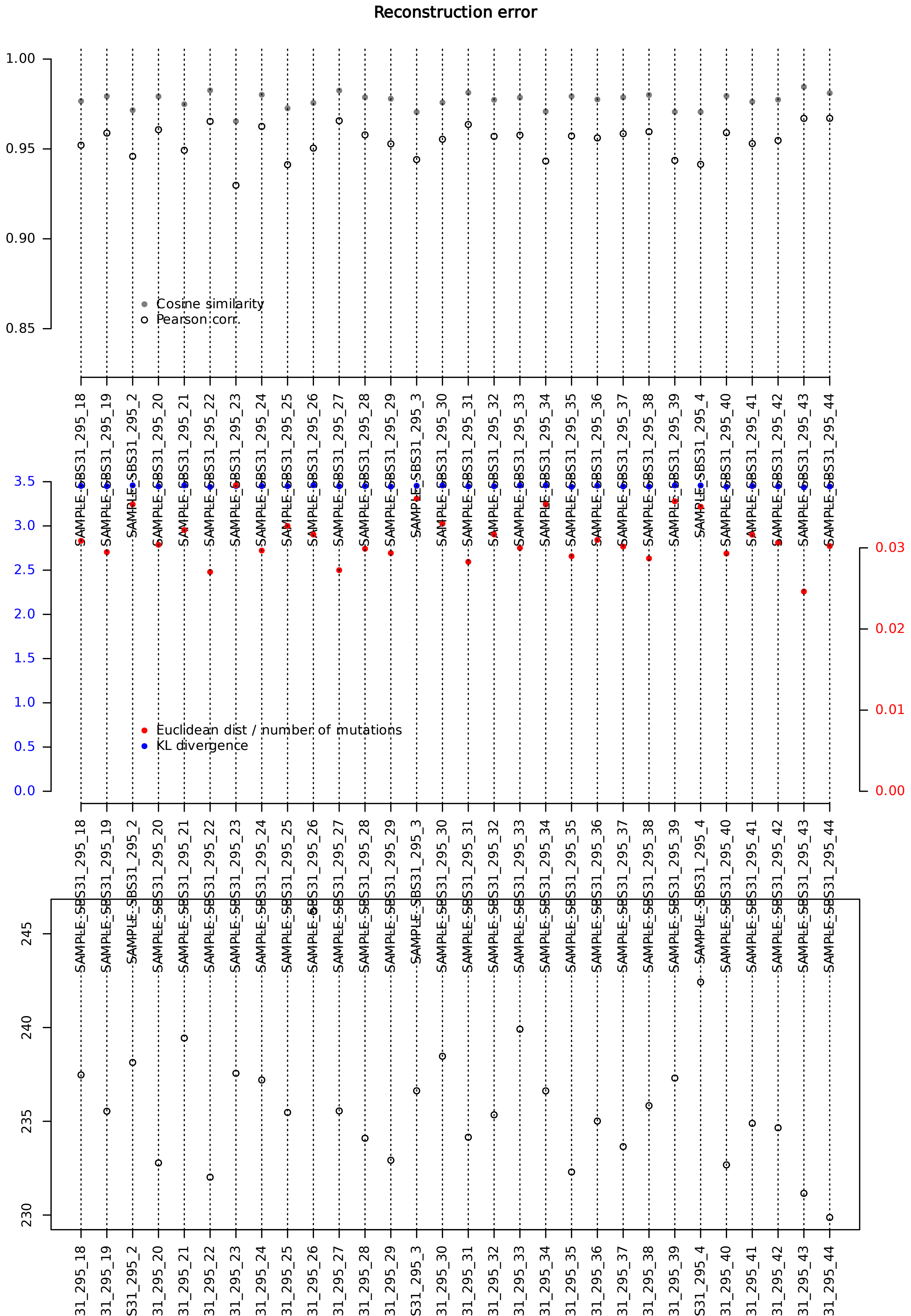
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
242
240
238
236
234
232
230


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
0.03
0.02
0.01
0.00
● Euclidean dist / number of mutations
● KL divergence
245
240
235
230
SAMPLE-SBS31_295_18
SAMPLE-SBS31_295_19
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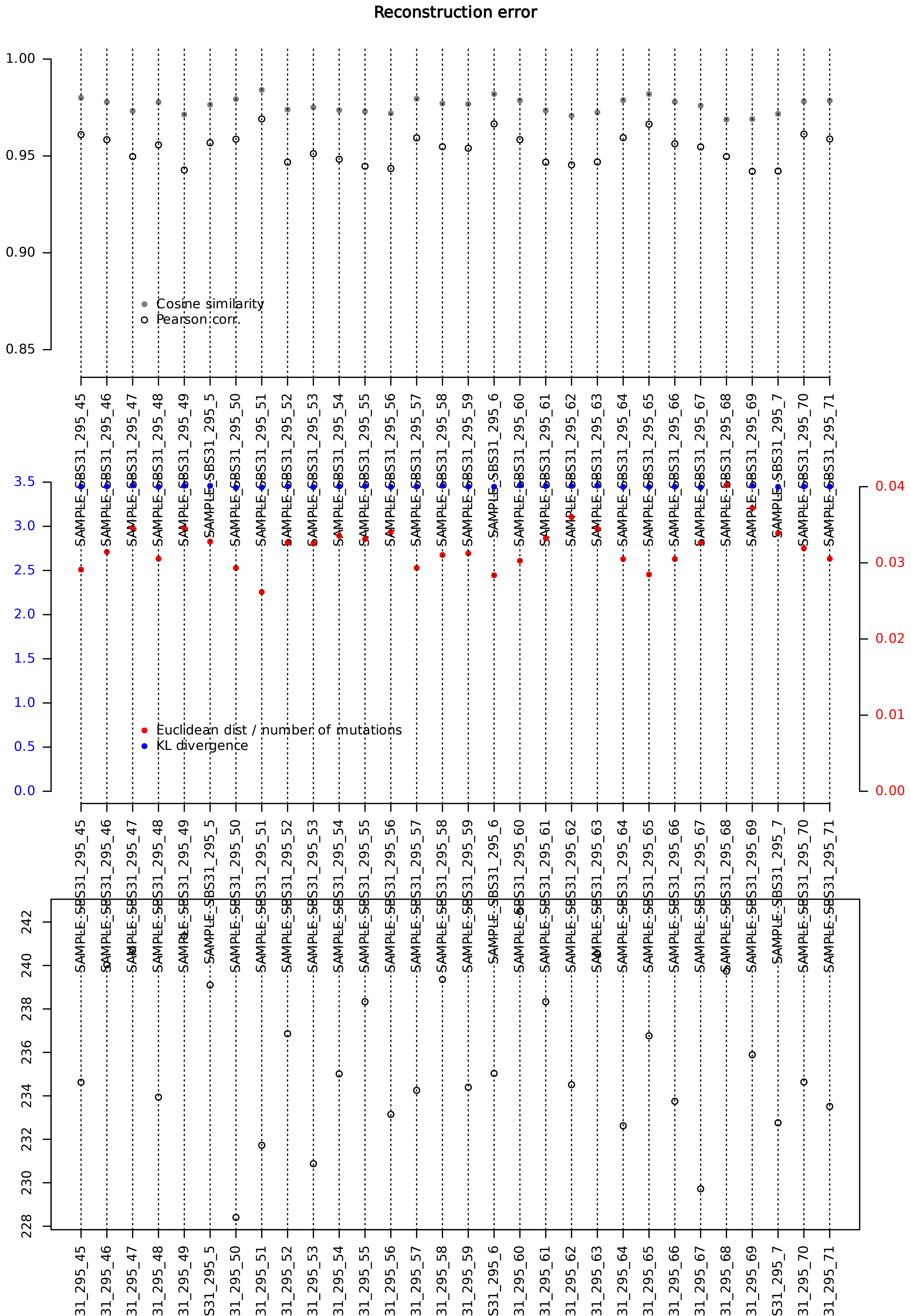
Reconstruction error
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0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
242
240
238
236
234
232
230
228
SAMPLE-SBS31_295_45
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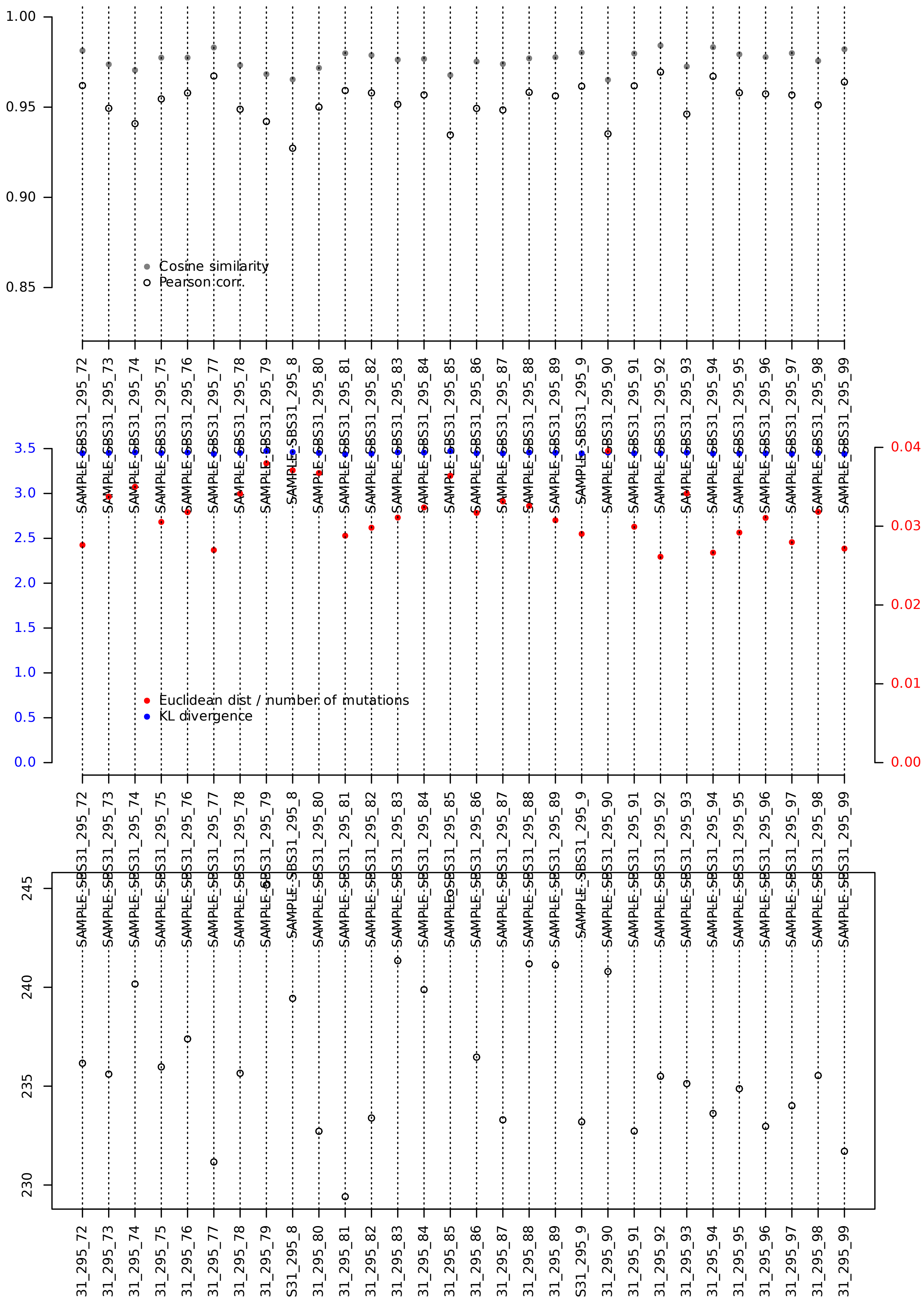
Reconstruction error
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0.95
0.90
0.85
● Cosine similarity
○ Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
● Euclidean dist / number of mutations
● KL divergence
245
240
235
230
SAMPLE-SBS31_295_72
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SAMPLE-SBS31_295_75
SAMPLE-SBS31_295_76
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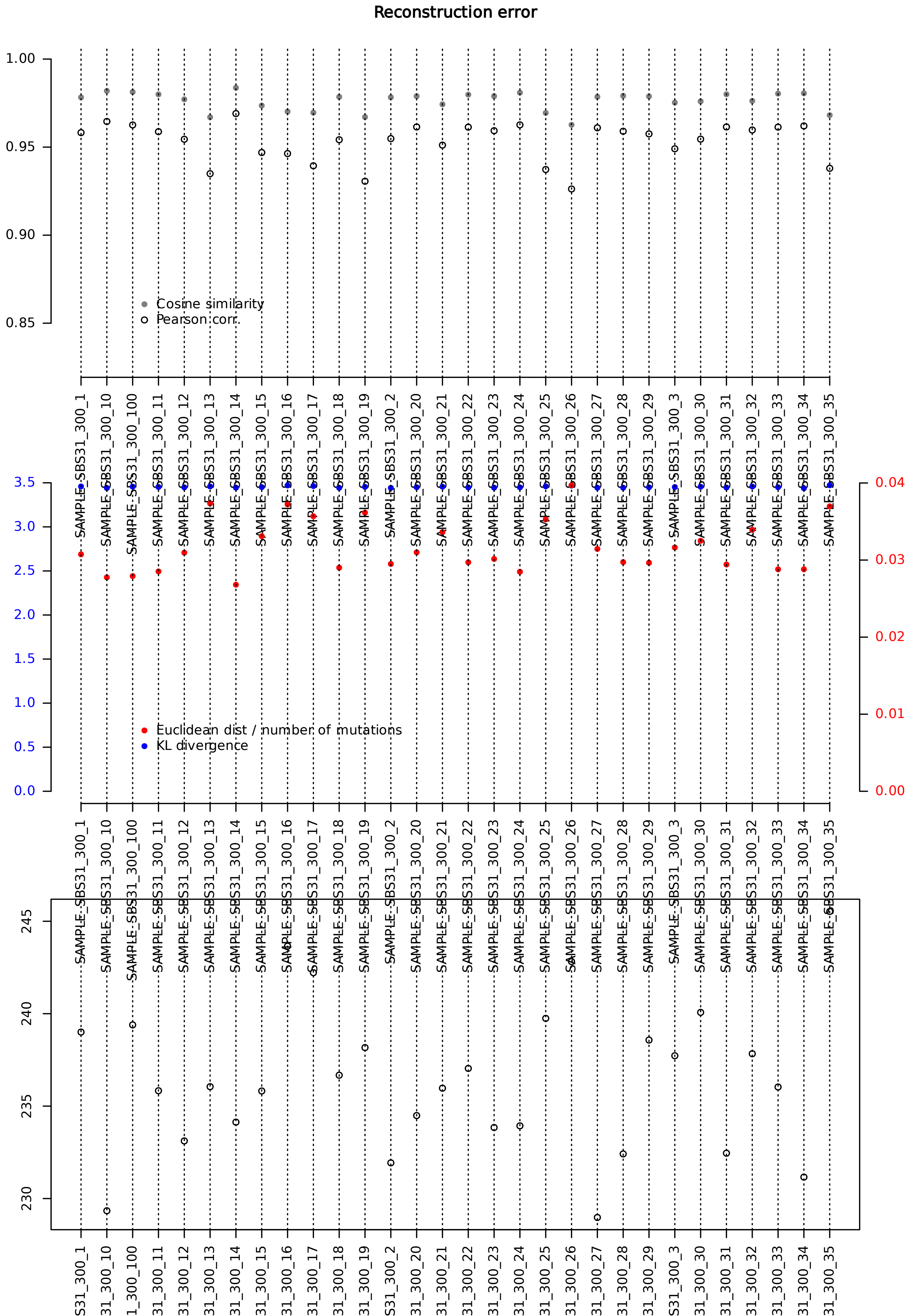
Reconstruction error
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0.90
0.85
Cosine similarity
Pearson corr.
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3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
245
240
235
230
SAMPLE-SBS31_300_1
SAMPLE-SBS31_300_10
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SAMPLE-SBS31_300_11
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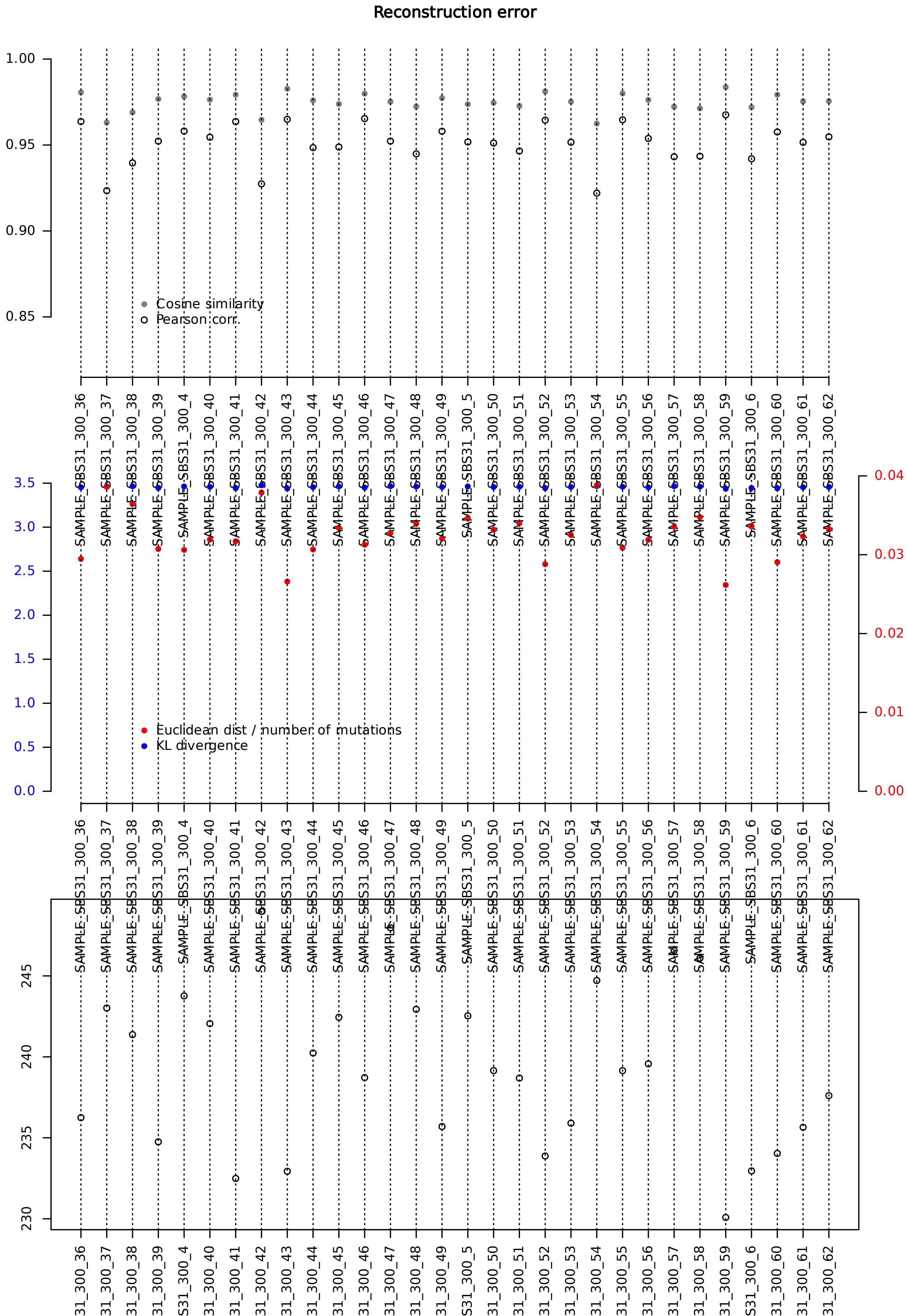
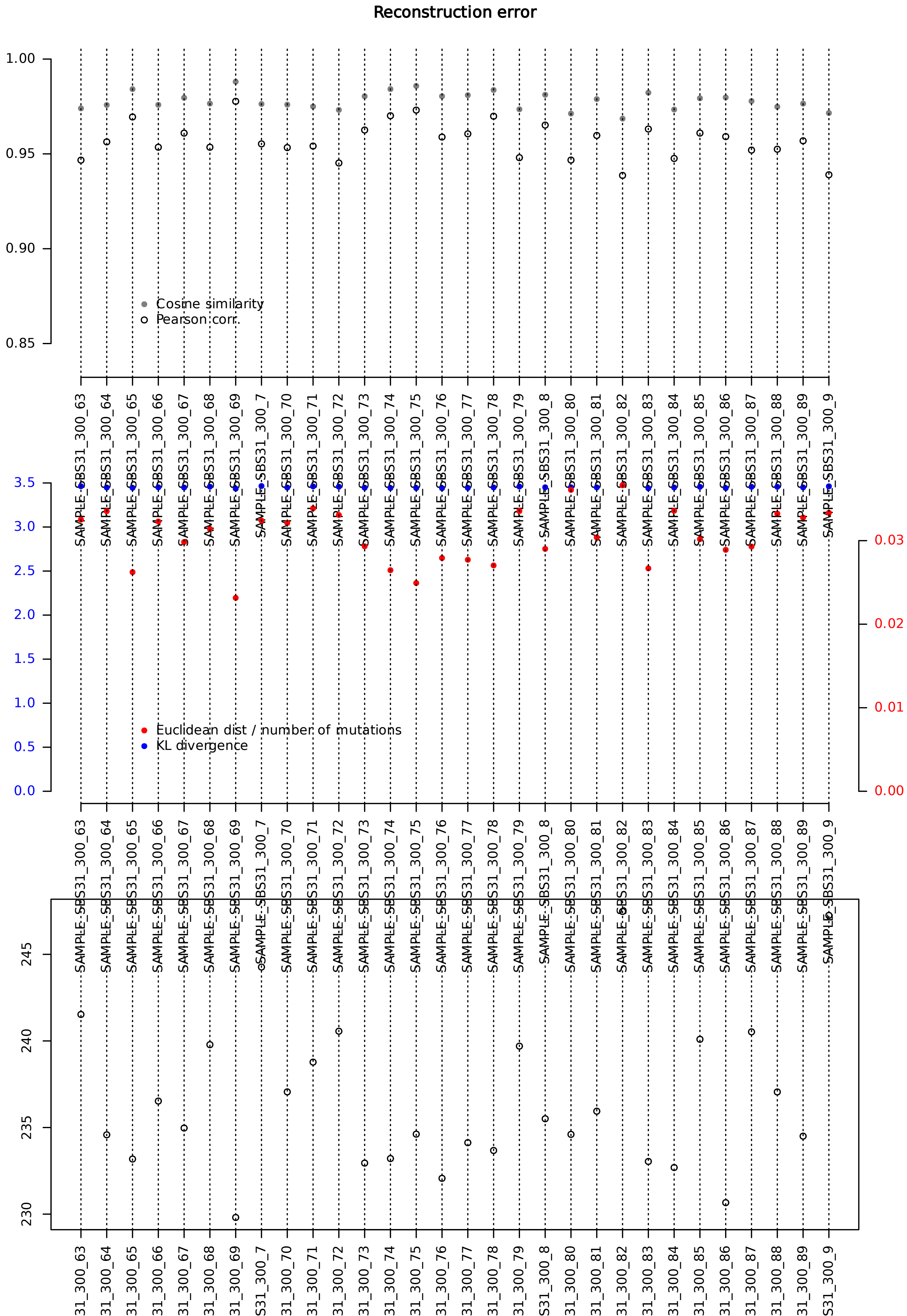


Reconstruction error


Reconstruction error
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0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
245
240
235
230
SAMPLE-SBS31_300_63
SAMPLE-SBS31_300_64
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SAMPLE-SBS31_300_66
SAMPLE-SBS31_300_67
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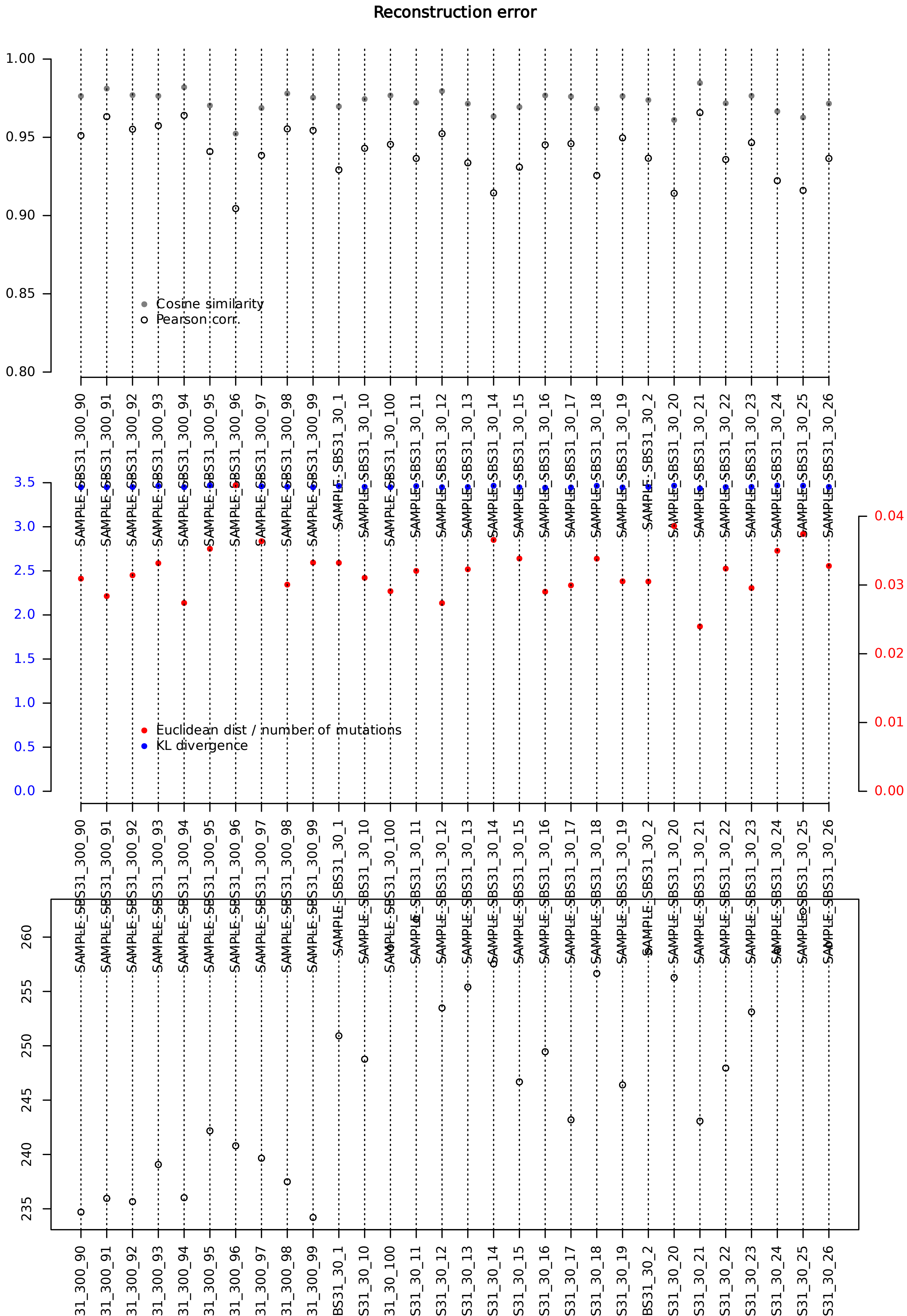
SAMPLE-SBS31_300_89
SAMPLE-SBS31_300_9


Reconstruction error
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0.90
0.85
0.80
Cosine similarity
Pearson corr.
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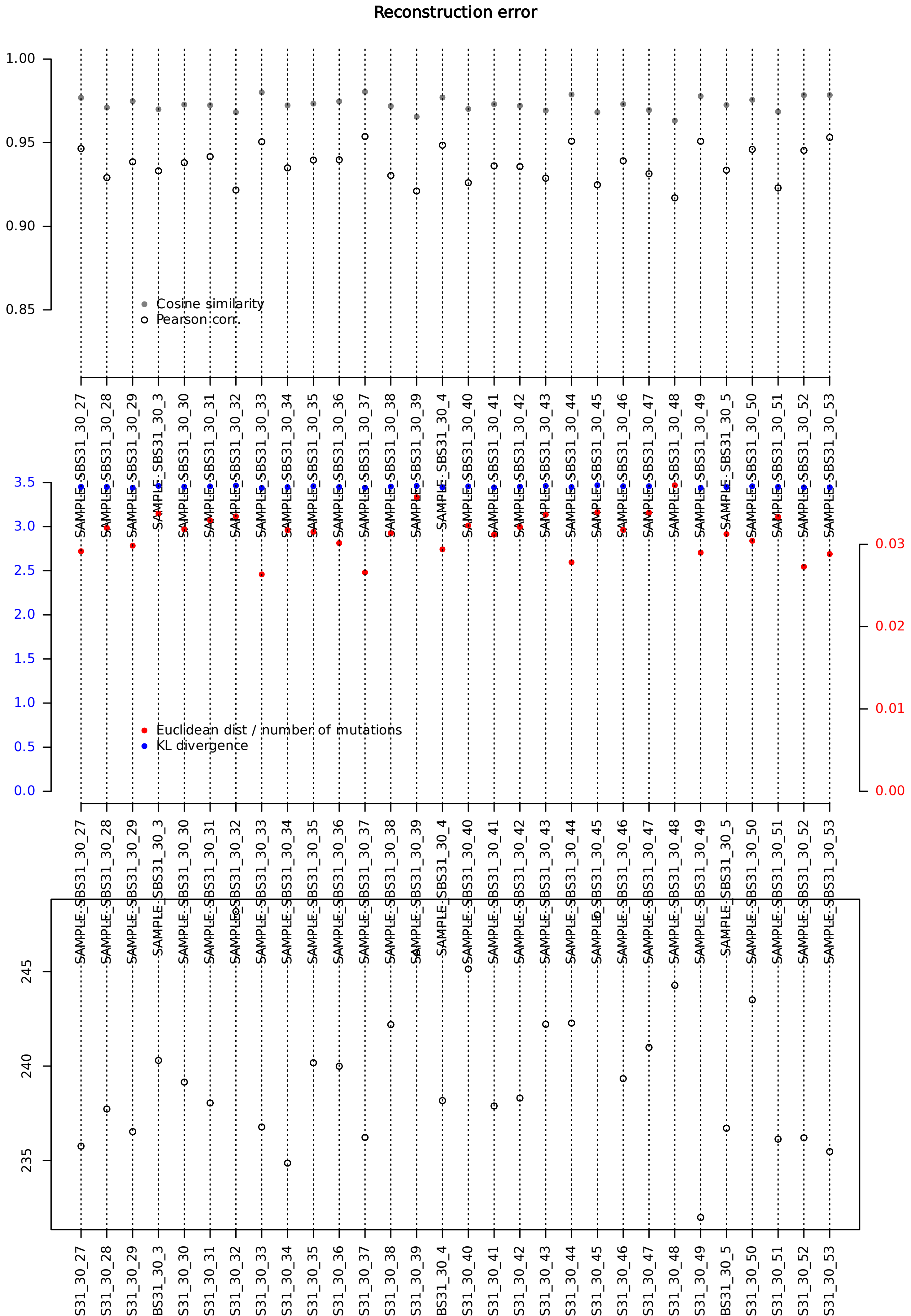
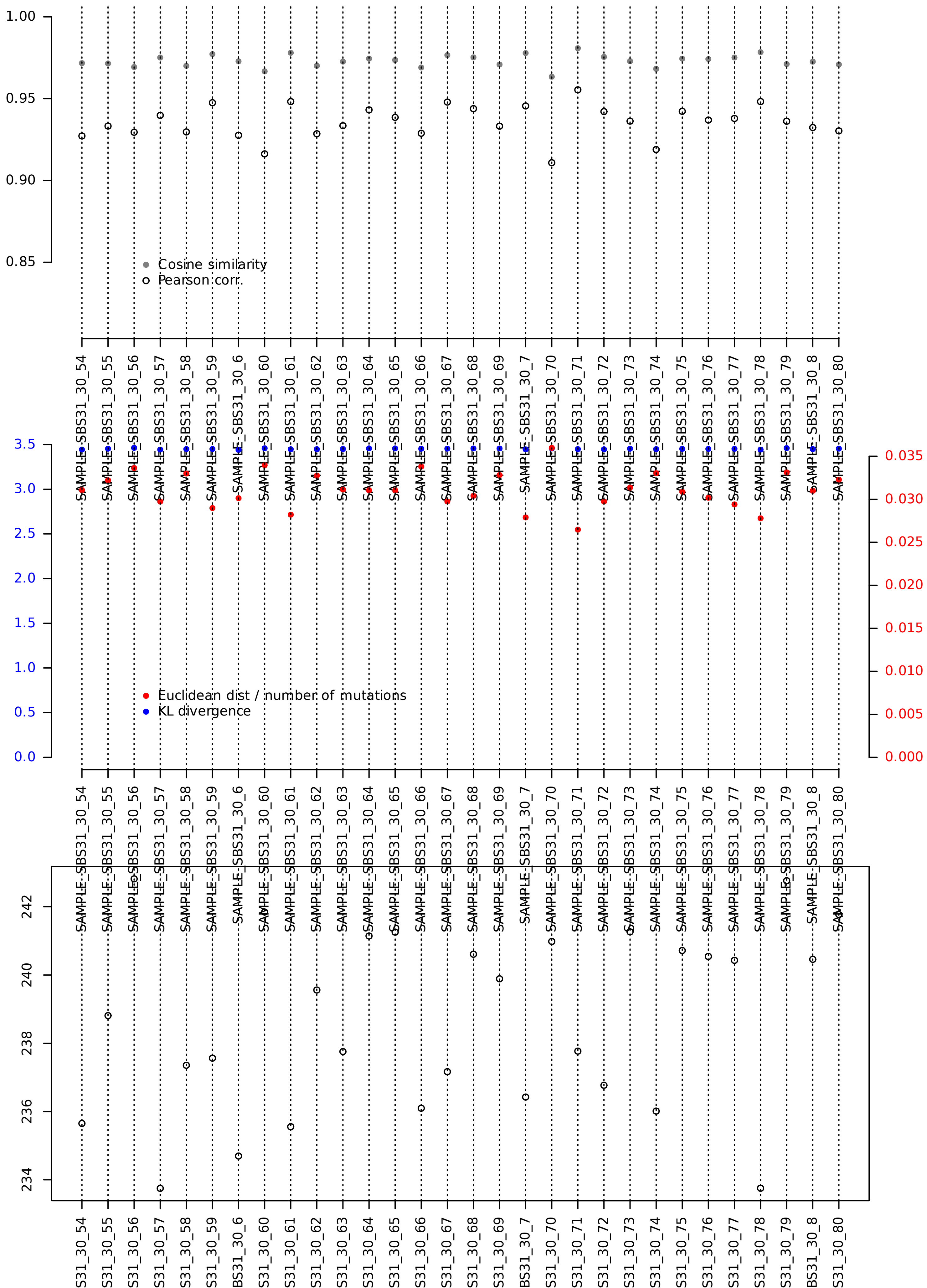
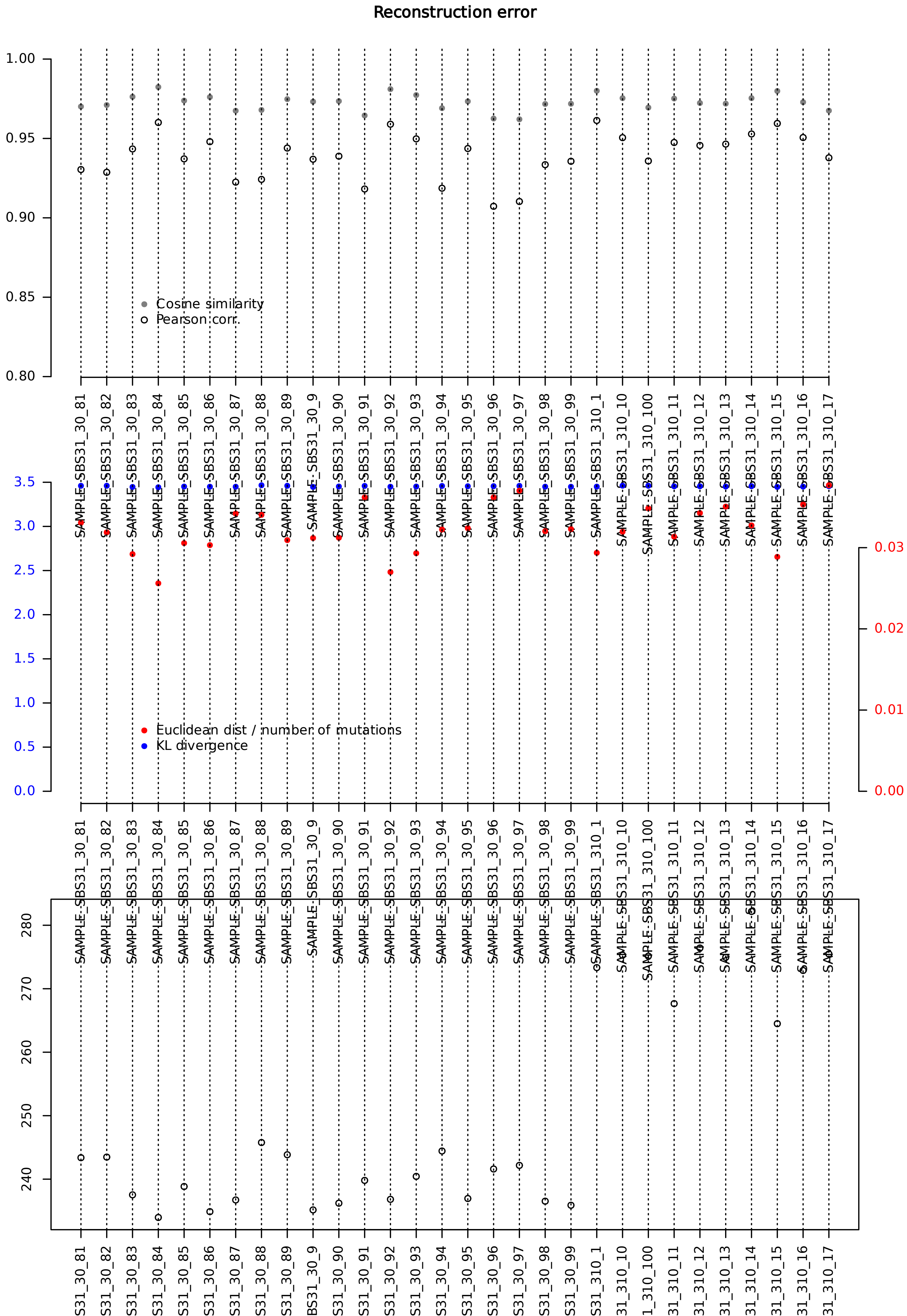
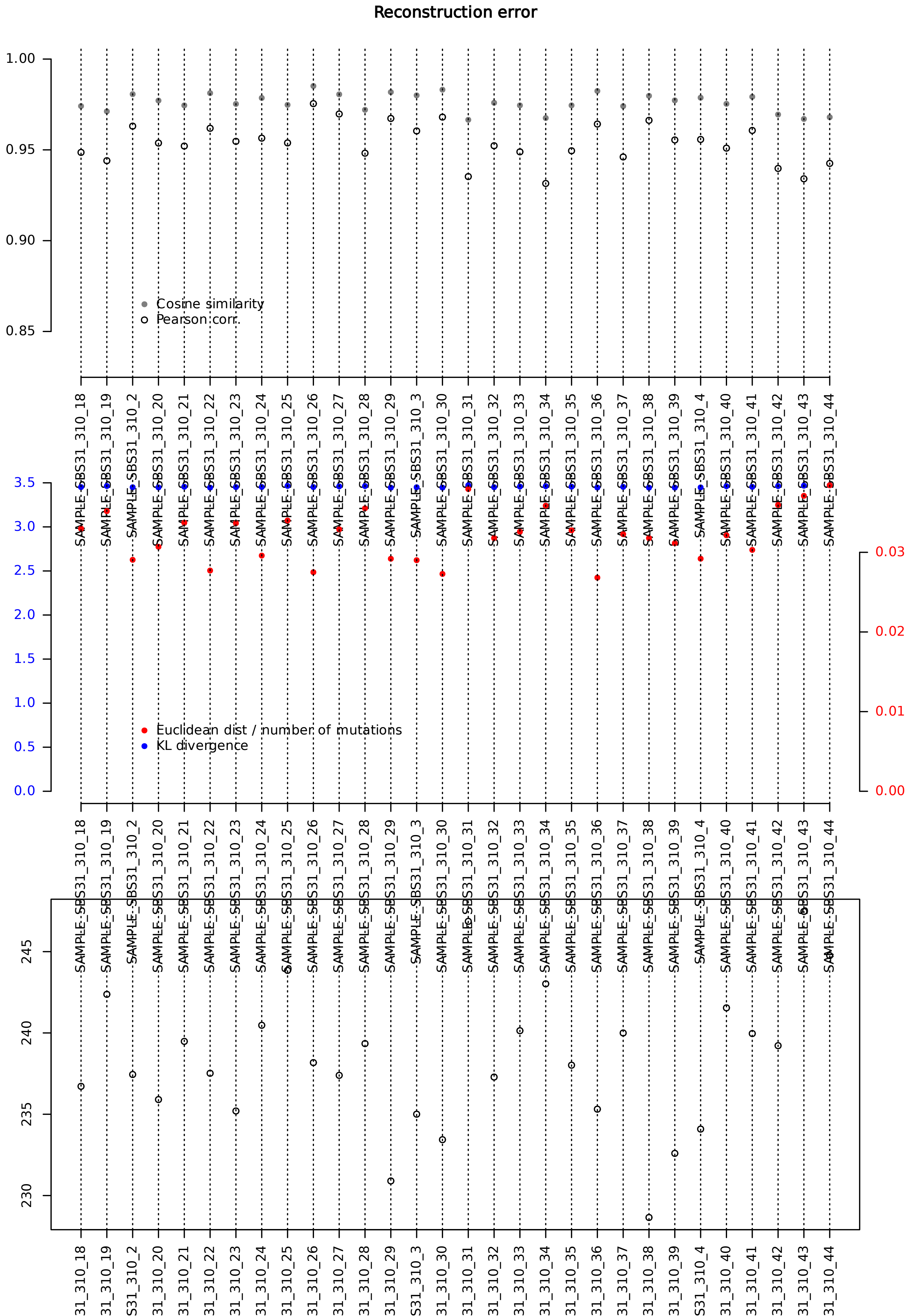
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
260
255
250
245
240
235
SAMPLE-SBS31_300_90
SAMPLE-SBS31_300_91
SAMPLE-SBS31_300_92
SAMPLE-SBS31_300_93
SAMPLE-SBS31_300_94
SAMPLE-SBS31_300_95
SAMPLE-SBS31_300_96
SAMPLE-SBS31_300_97
SAMPLE-SBS31_300_98
SAMPLE-SBS31_300_99
SAMPLE-SBS31_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
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

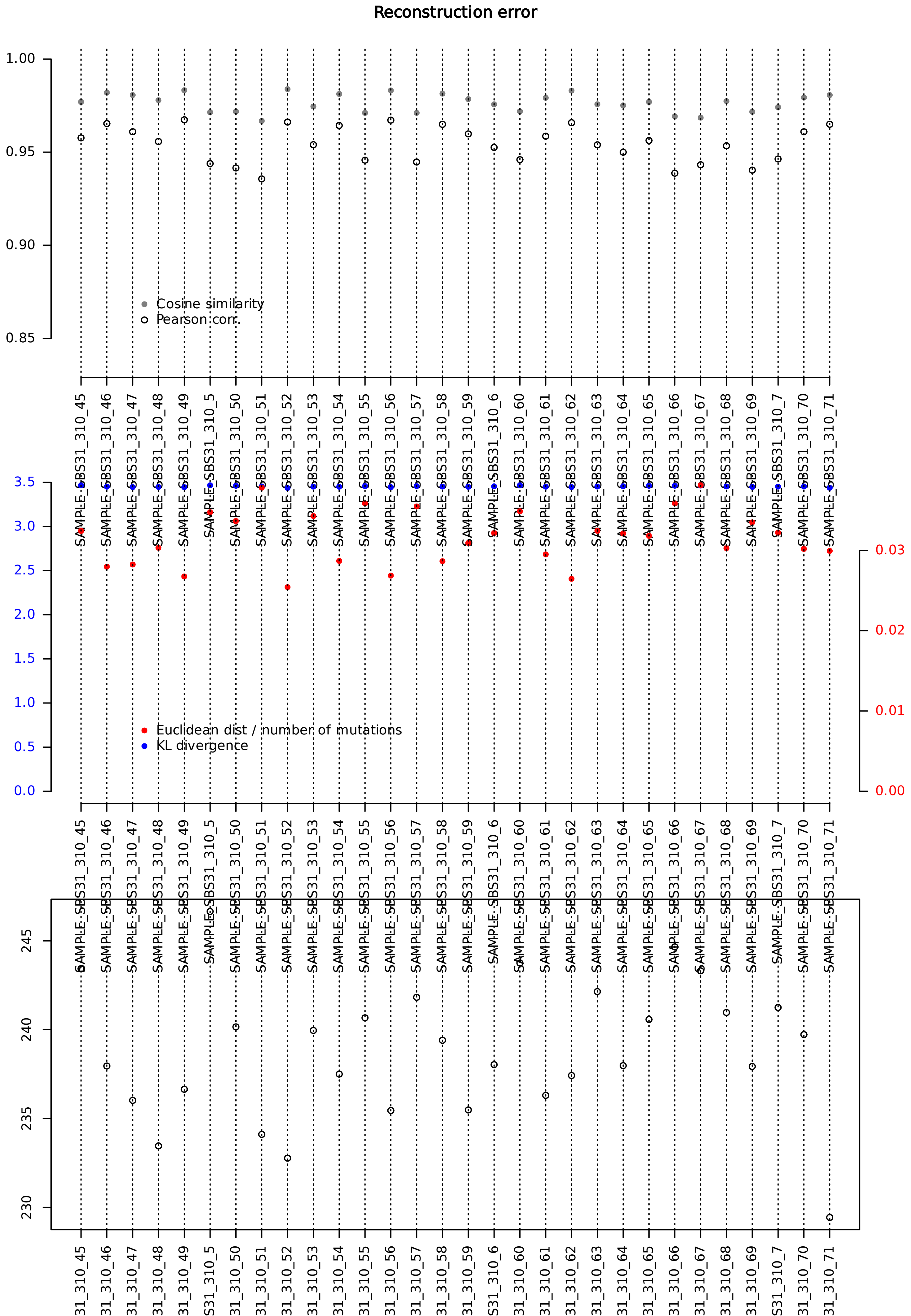

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
SAMPLE-SBS31_30_27
SAMPLE-SBS31_30_28
SAMPLE-SBS31_30_29
SAMPLE-SBS31_30_3
SAMPLE-SBS31_30_30
SAMPLE-SBS31_30_31
SAMPLE-SBS31_30_32
SAMPLE-SBS31_30_33
SAMPLE-SBS31_30_34
SAMPLE-SBS31_30_35
SAMPLE-SBS31_30_36
SAMPLE-SBS31_30_37
SAMPLE-SBS31_30_38
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
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
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
245
240
235
S31_30_27
S31_30_28
S31_30_29
BS31_30_3
S31_30_30
S31_30_31
S31_30_32
S31_30_33
S31_30_34
S31_30_35
S31_30_36
S31_30_37
S31_30_38
S31_30_39
BS31_30_4
S31_30_40
S31_30_41
S31_30_42
S31_30_43
S31_30_44
S31_30_45
S31_30_46
S31_30_47
S31_30_48
S31_30_49
BS31_30_5
S31_30_50
S31_30_51
S31_30_52
S31_30_53

Reconstruction error

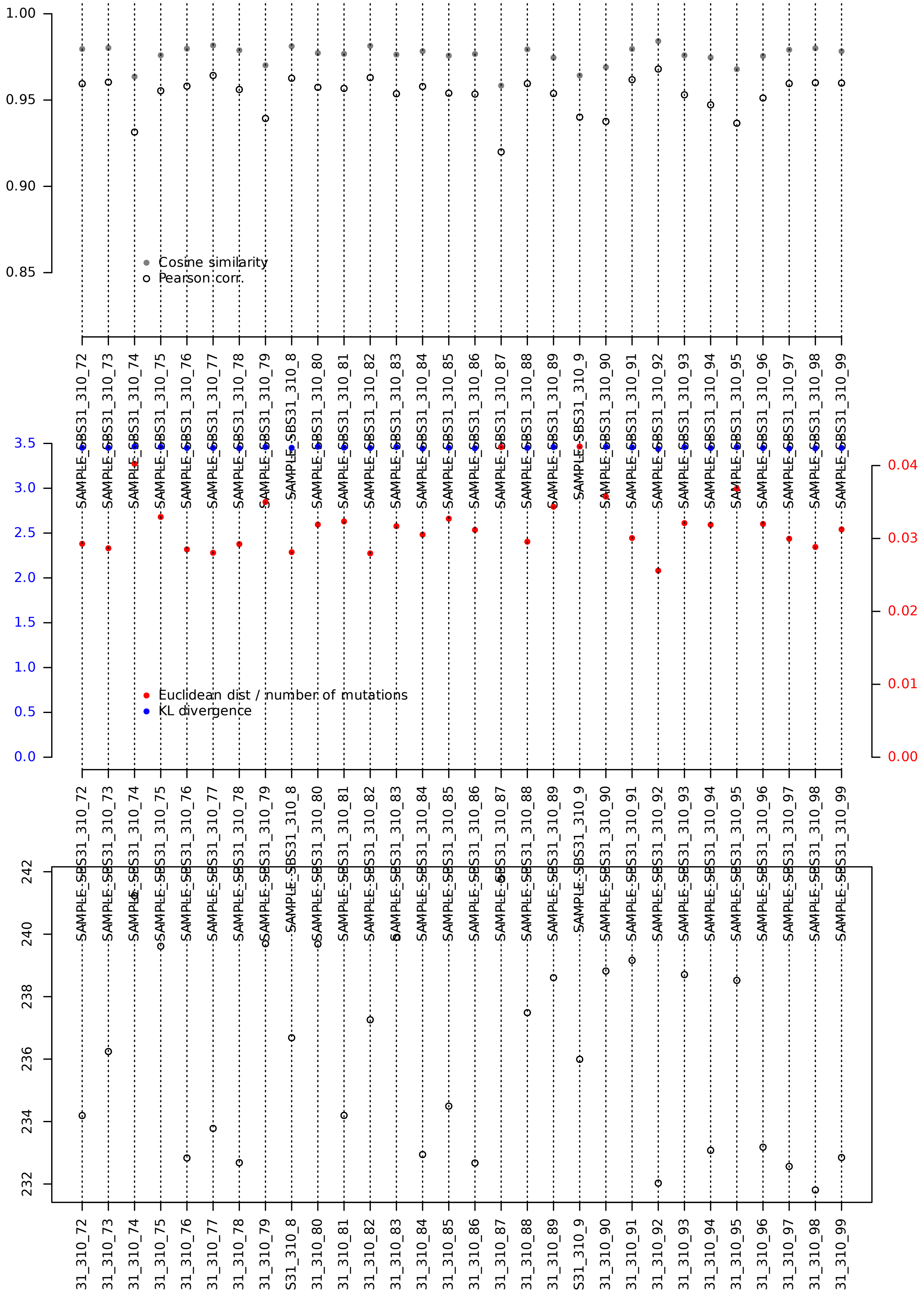


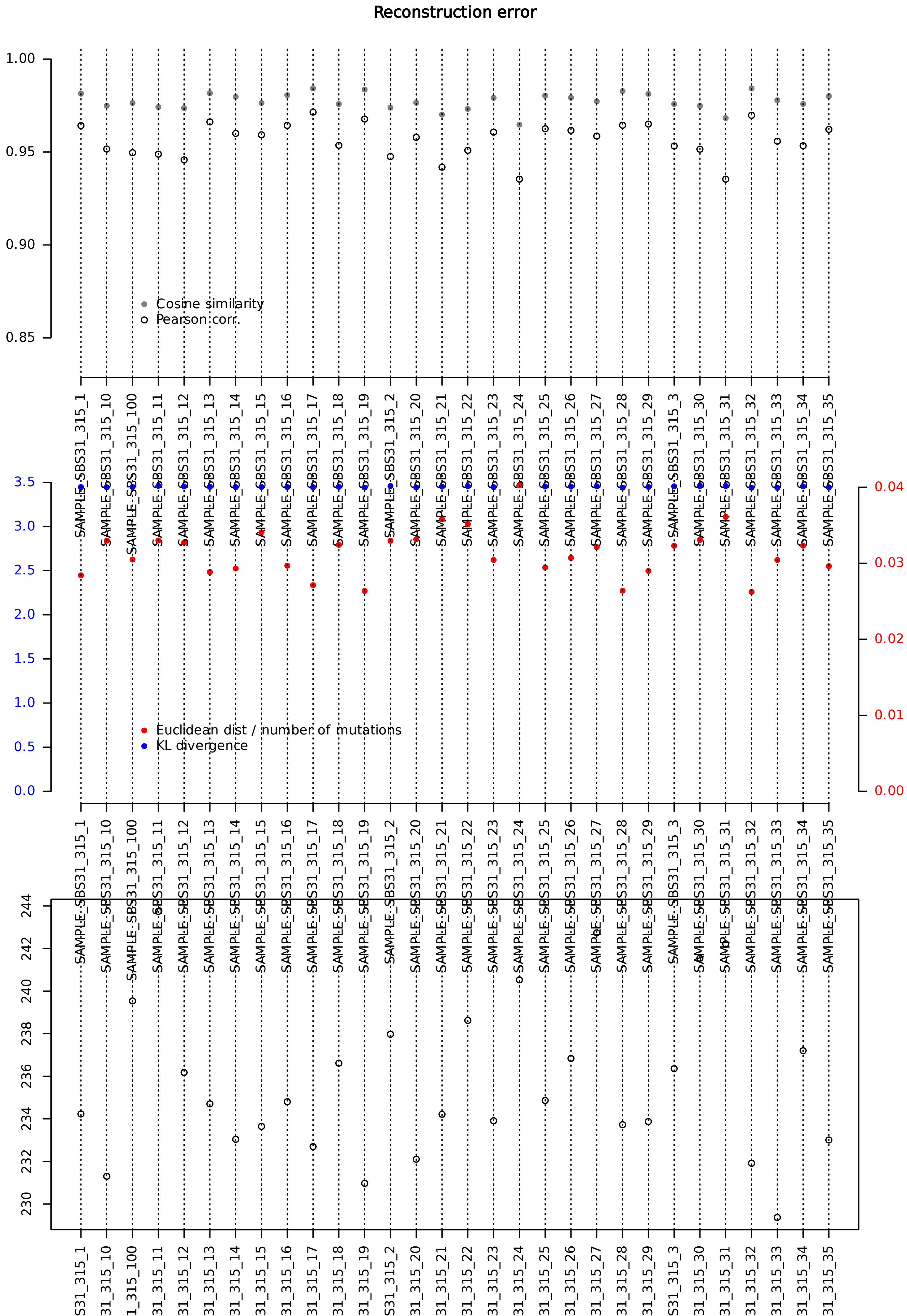

Reconstruction error
1.00
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
280
270
260
250
240
SAMPLE-SBS31_30_81
SAMPLE-SBS31_30_82
SAMPLE-SBS31_30_83
SAMPLE-SBS31_30_84
SAMPLE-SBS31_30_85
SAMPLE-SBS31_30_86
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
SAMPLE-SBS31_30_95
SAMPLE-SBS31_30_96
SAMPLE-SBS31_30_97
SAMPLE-SBS31_30_98
SAMPLE-SBS31_30_99
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

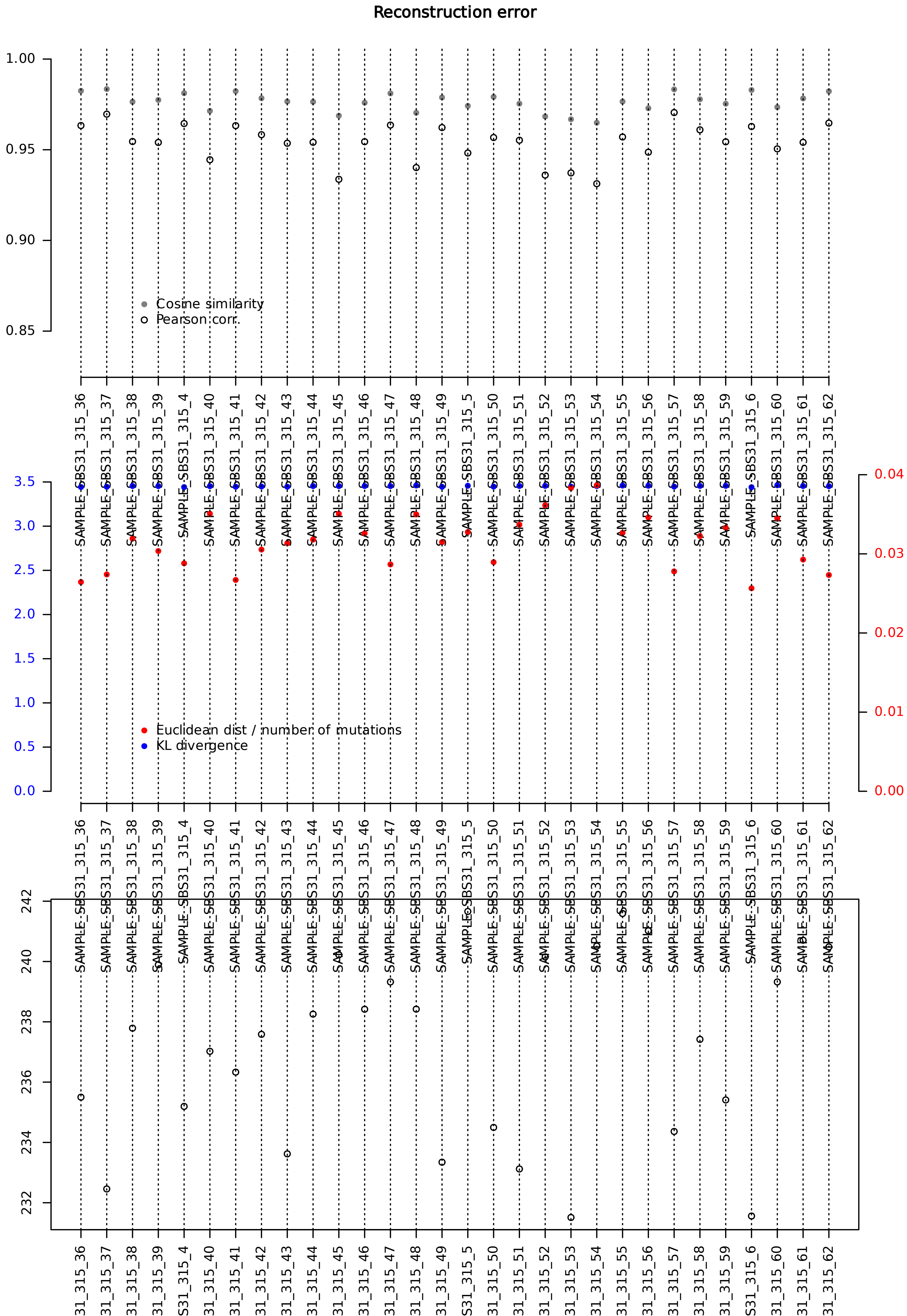

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
245
240
235
230
SAMPLE-SBS31_310_18
SAMPLE-SBS31_310_19
SAMPLE-SBS31_310_2
SAMPLE-SBS31_310_20
SAMPLE-SBS31_310_21
SAMPLE-SBS31_310_22
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
SAMPLE-SBS31_310_31
SAMPLE-SBS31_310_32
SAMPLE-SBS31_310_33
SAMPLE-SBS31_310_34
SAMPLE-SBS31_310_35
SAMPLE-SBS31_310_36
SAMPLE-SBS31_310_37
SAMPLE-SBS31_310_38
SAMPLE-SBS31_310_39
SAMPLE-SBS31_310_4
SAMPLE-SBS31_310_40
SAMPLE-SBS31_310_41
SAMPLE-SBS31_310_42
SAMPLE-SBS31_310_43
SAMPLE-SBS31_310_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
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
245
240
235
230
SAMPLE-SBS31_310_45
SAMPLE-SBS31_310_46
SAMPLE-SBS31_310_47
SAMPLE-SBS31_310_48
SAMPLE-SBS31_310_49
SAMPLE-SBS31_310_5
SAMPLE-SBS31_310_50
SAMPLE-SBS31_310_51
SAMPLE-SBS31_310_52
SAMPLE-SBS31_310_53
SAMPLE-SBS31_310_54
SAMPLE-SBS31_310_55
SAMPLE-SBS31_310_56
SAMPLE-SBS31_310_57
SAMPLE-SBS31_310_58
SAMPLE-SBS31_310_59
SAMPLE-SBS31_310_6
SAMPLE-SBS31_310_60
SAMPLE-SBS31_310_61
SAMPLE-SBS31_310_62
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

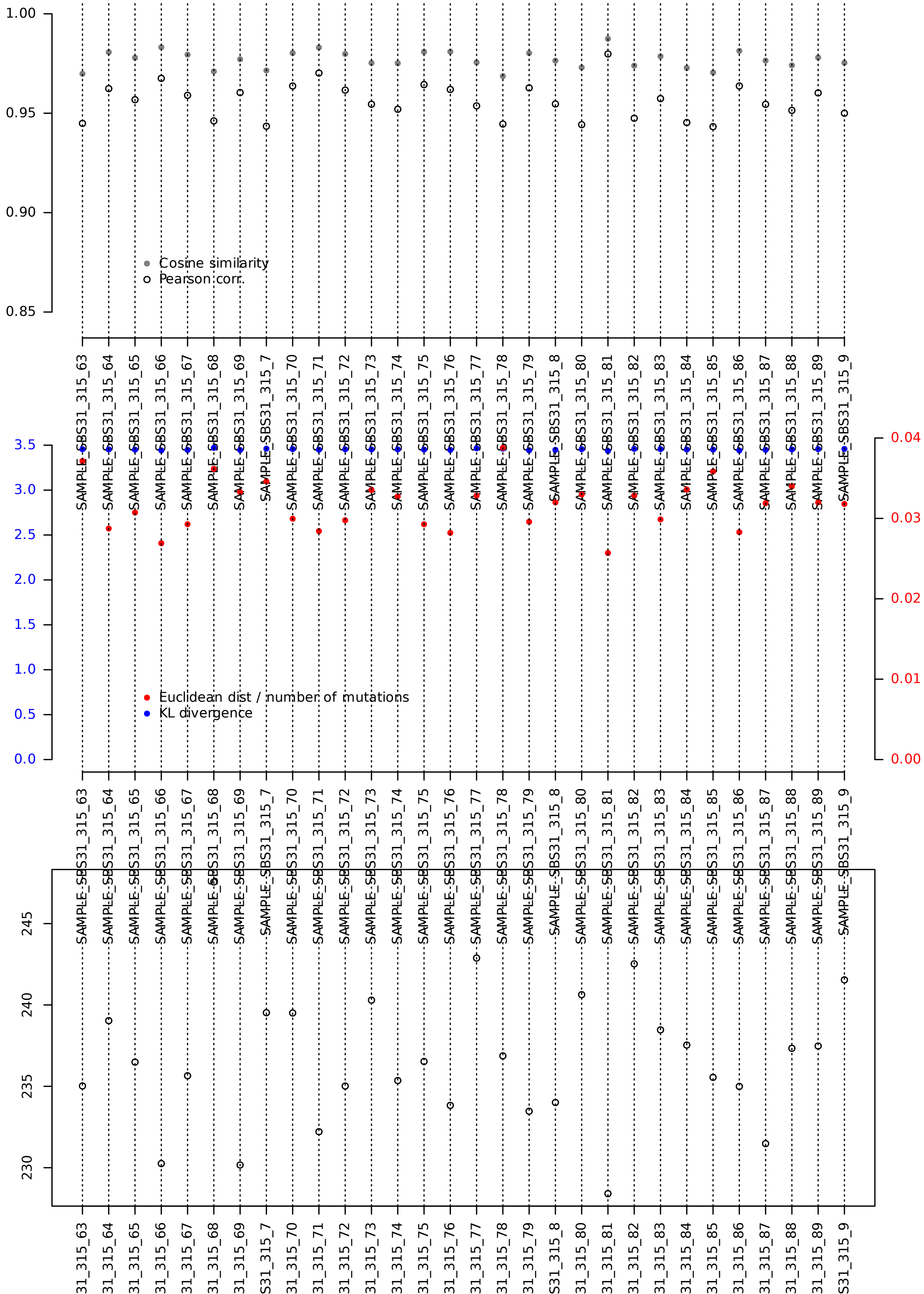
Reconstruction error

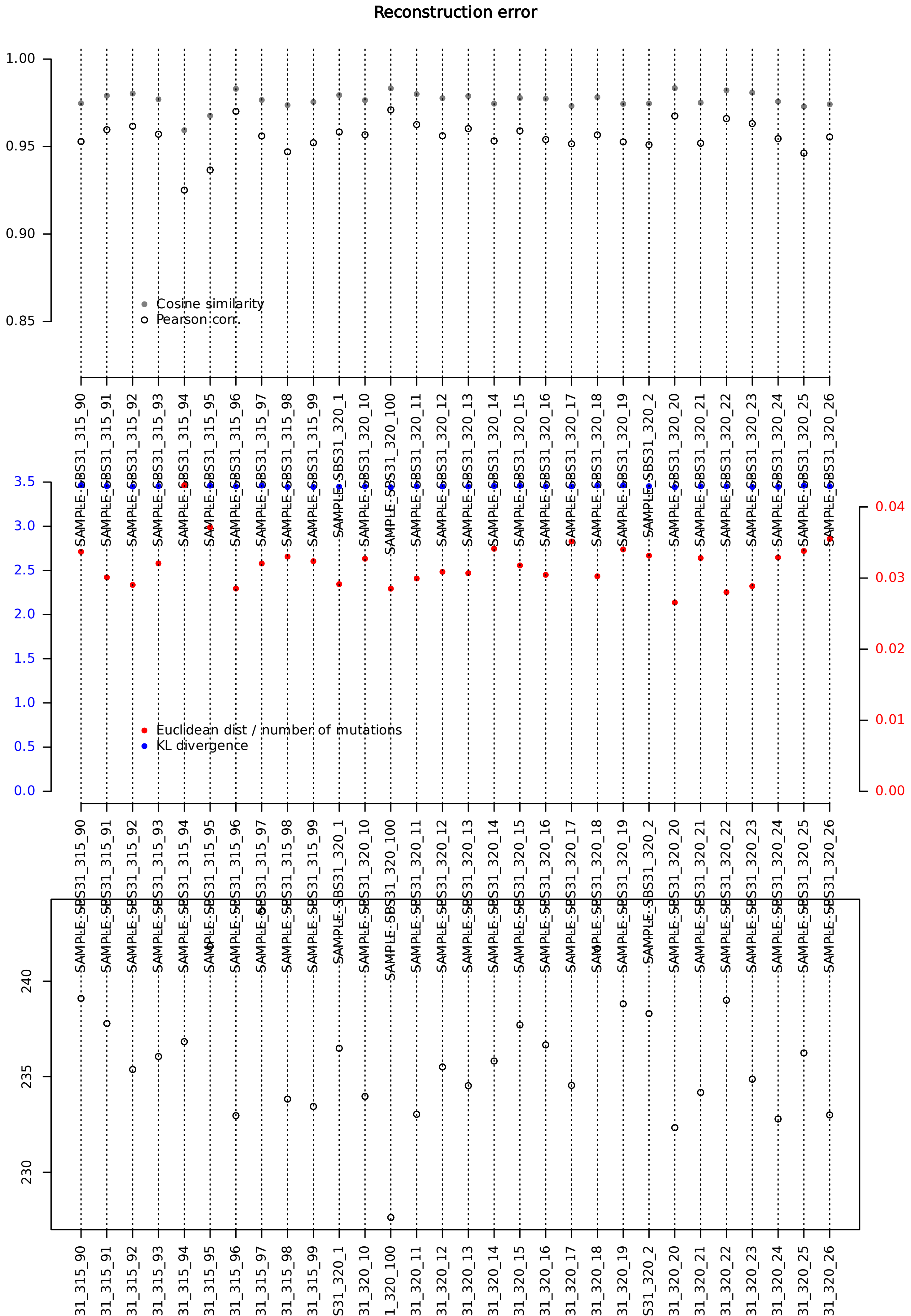


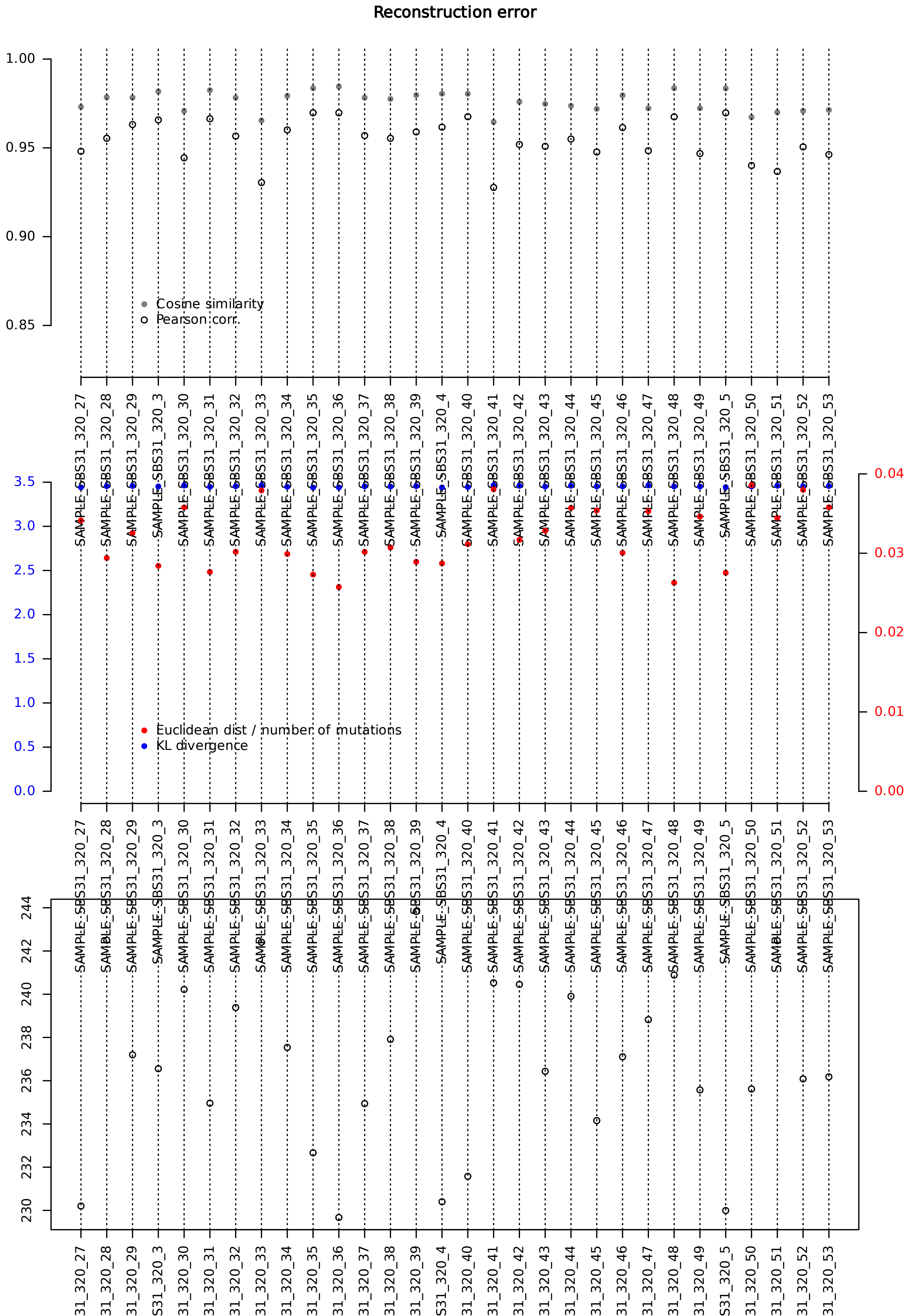

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
244
242
240
238
236
234
232
230
SAMPLE-SBS31_315_1
SAMPLE-SBS31_315_10
SAMPLE-SBS31_315_100
SAMPLE-SBS31_315_11
SAMPLE-SBS31_315_12
SAMPLE-SBS31_315_13
SAMPLE-SBS31_315_14
SAMPLE-SBS31_315_15
SAMPLE-SBS31_315_16
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
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
SAMPLE-SBS31_315_35

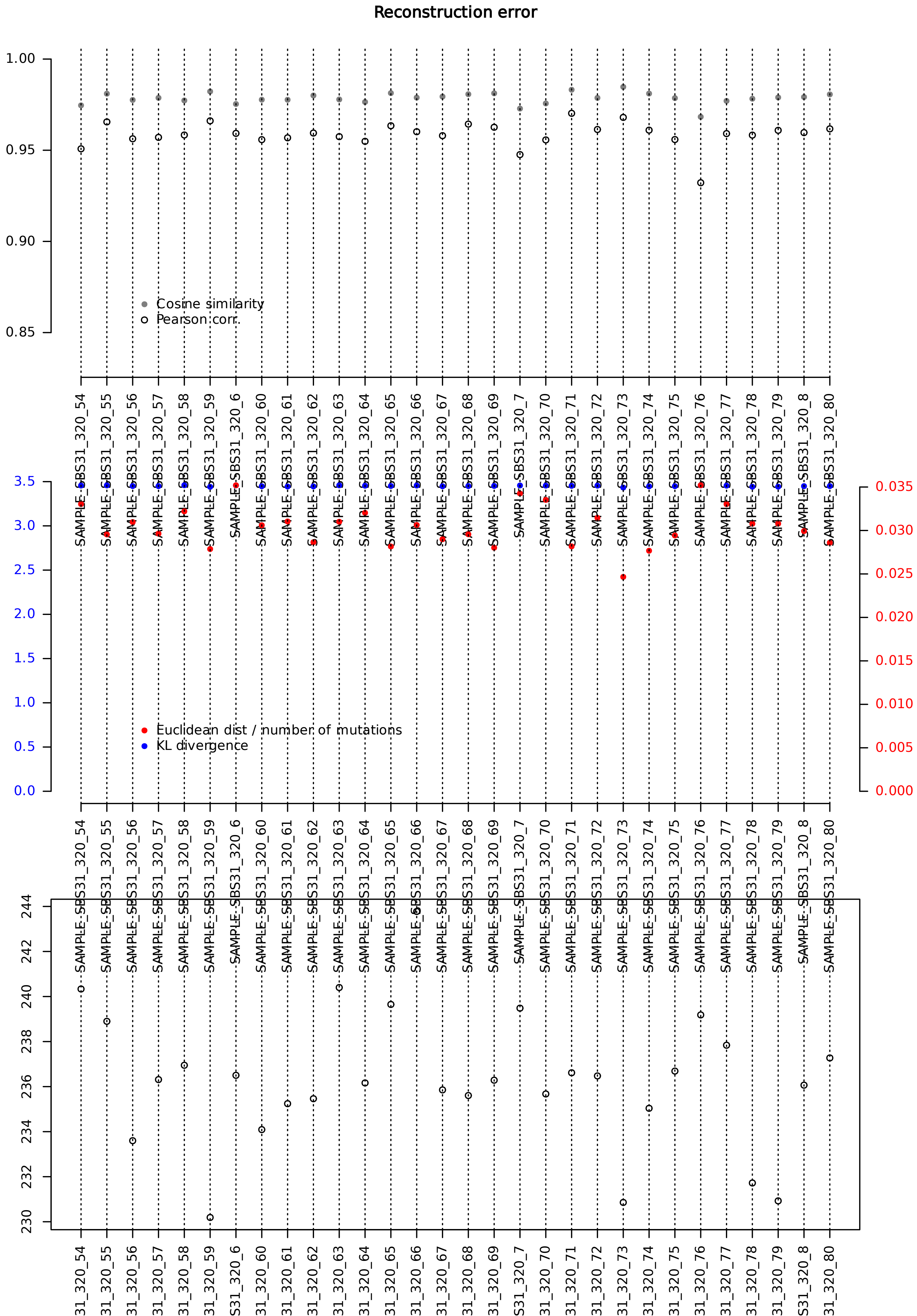

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
242
240
238
236
234
232
SAMPLE-SBS31_315_36
SAMPLE-SBS31_315_37
SAMPLE-SBS31_315_38
SAMPLE-SBS31_315_39
SAMPLE-SBS31_315_4
SAMPLE-SBS31_315_40
SAMPLE-SBS31_315_41
SAMPLE-SBS31_315_42
SAMPLE-SBS31_315_43
SAMPLE-SBS31_315_44
SAMPLE-SBS31_315_45
SAMPLE-SBS31_315_46
SAMPLE-SBS31_315_47
SAMPLE-SBS31_315_48
SAMPLE-SBS31_315_49
SAMPLE-SBS31_315_5
SAMPLE-SBS31_315_50
SAMPLE-SBS31_315_51
SAMPLE-SBS31_315_52
SAMPLE-SBS31_315_53
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

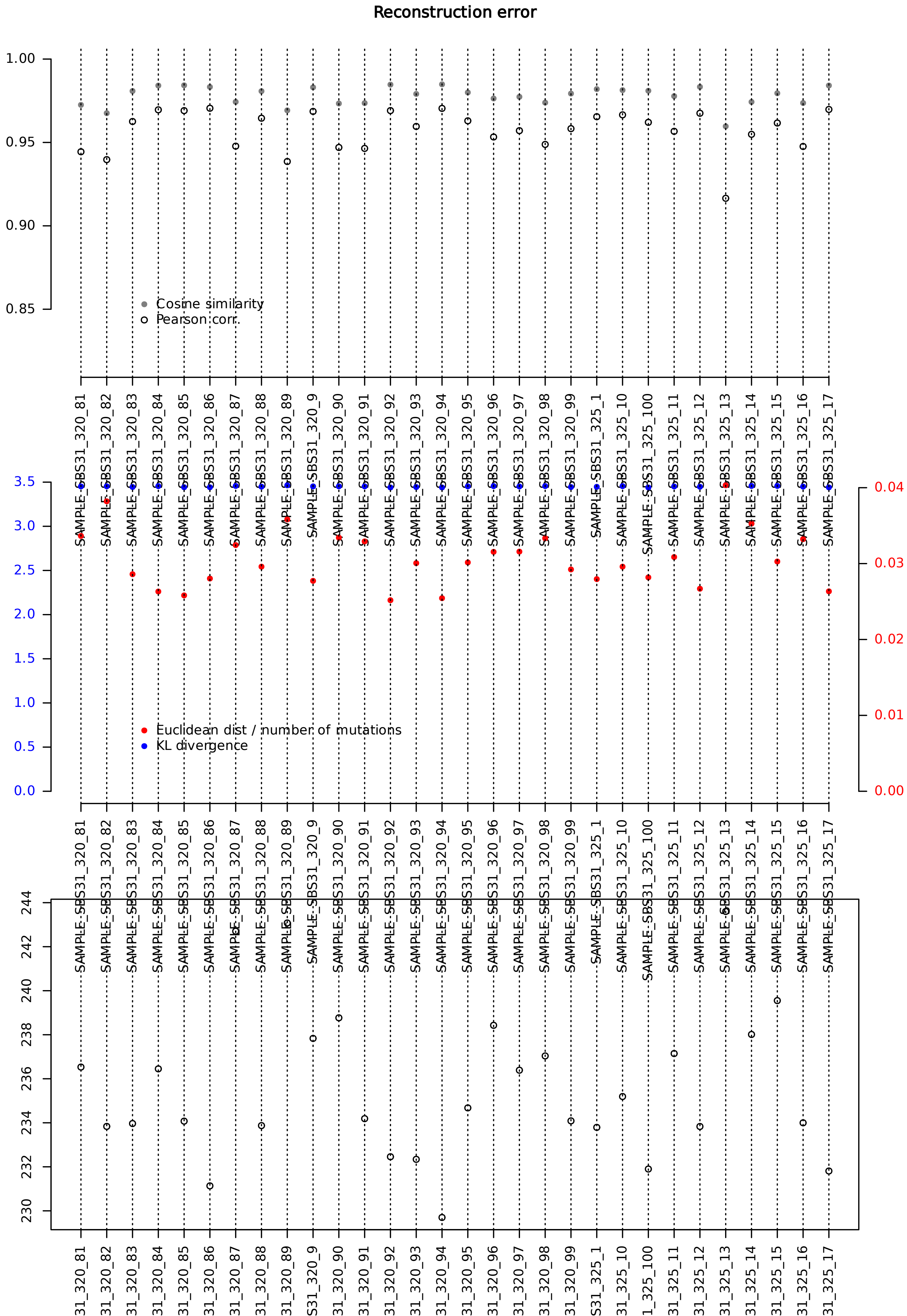
Reconstruction error

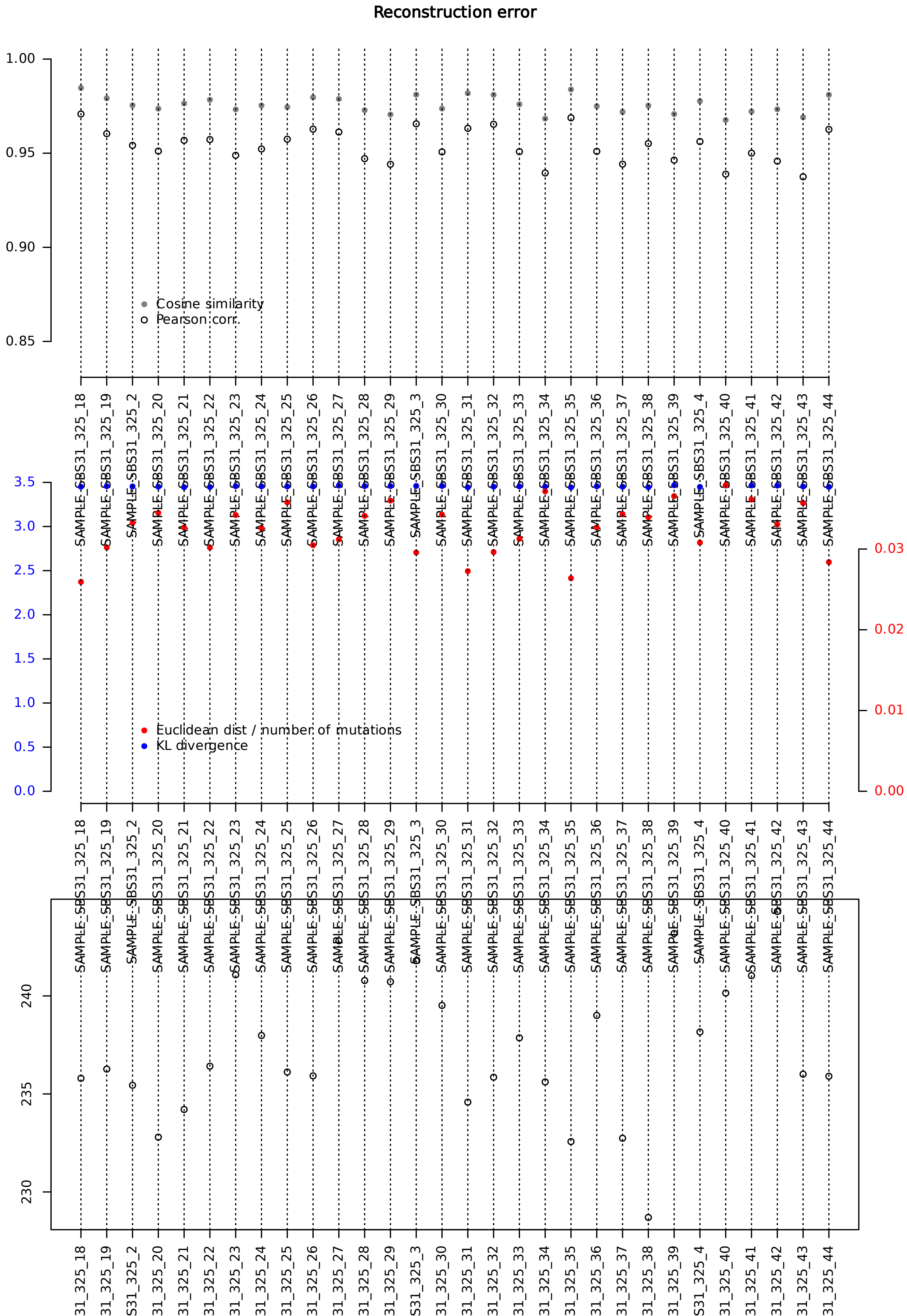


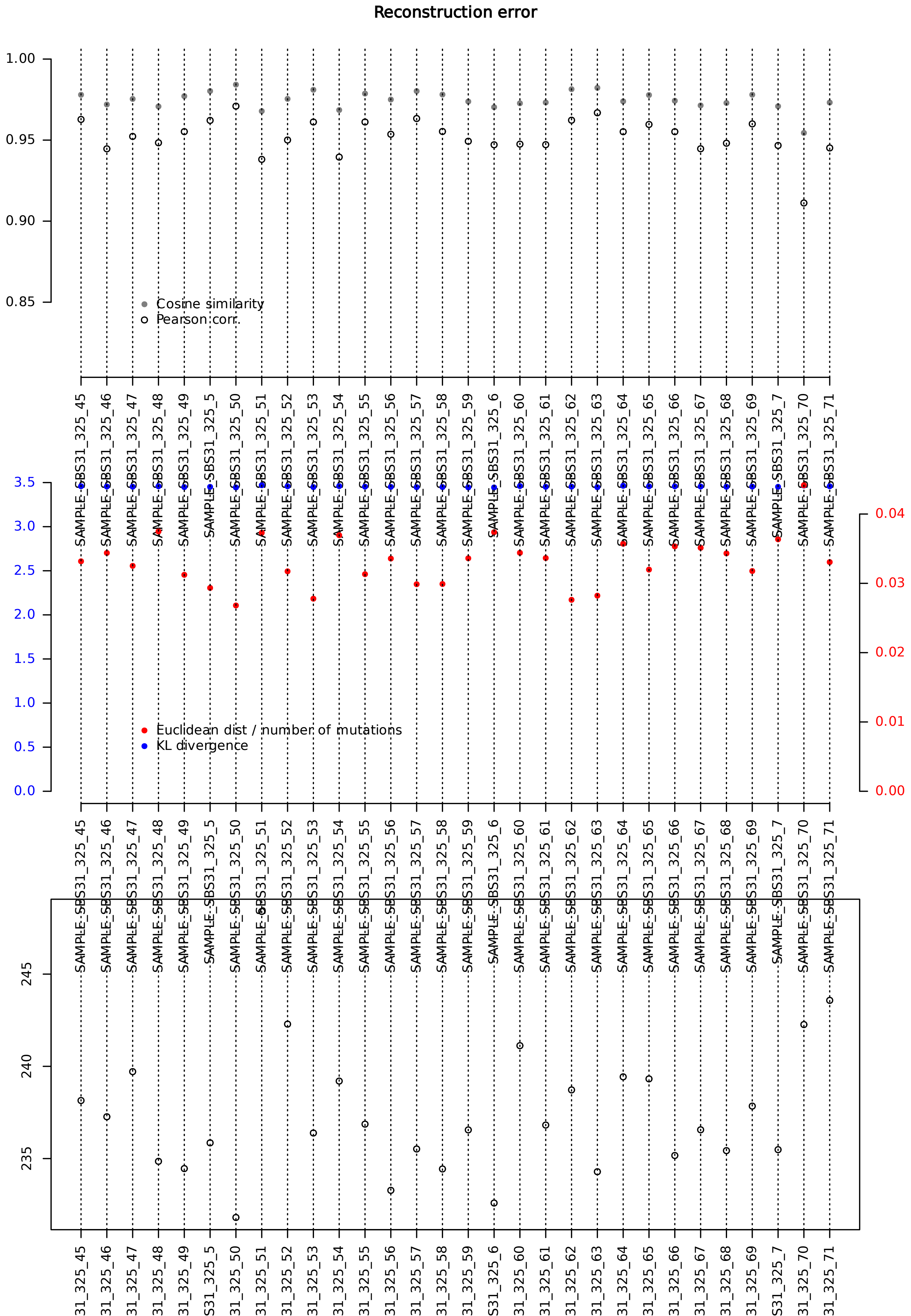

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
240
235
230
SAMPLE-SBS31_315_90
SAMPLE-SBS31_315_91
SAMPLE-SBS31_315_92
SAMPLE-SBS31_315_93
SAMPLE-SBS31_315_94
SAMPLE-SBS31_315_95
SAMPLE-SBS31_315_96
SAMPLE-SBS31_315_97
SAMPLE-SBS31_315_98
SAMPLE-SBS31_315_99
SAMPLE-SBS31_320_1
SAMPLE-SBS31_320_10
SAMPLE-SBS31_320_100
SAMPLE-SBS31_320_11
SAMPLE-SBS31_320_12
SAMPLE-SBS31_320_13
SAMPLE-SBS31_320_14
SAMPLE-SBS31_320_15
SAMPLE-SBS31_320_16
SAMPLE-SBS31_320_17
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

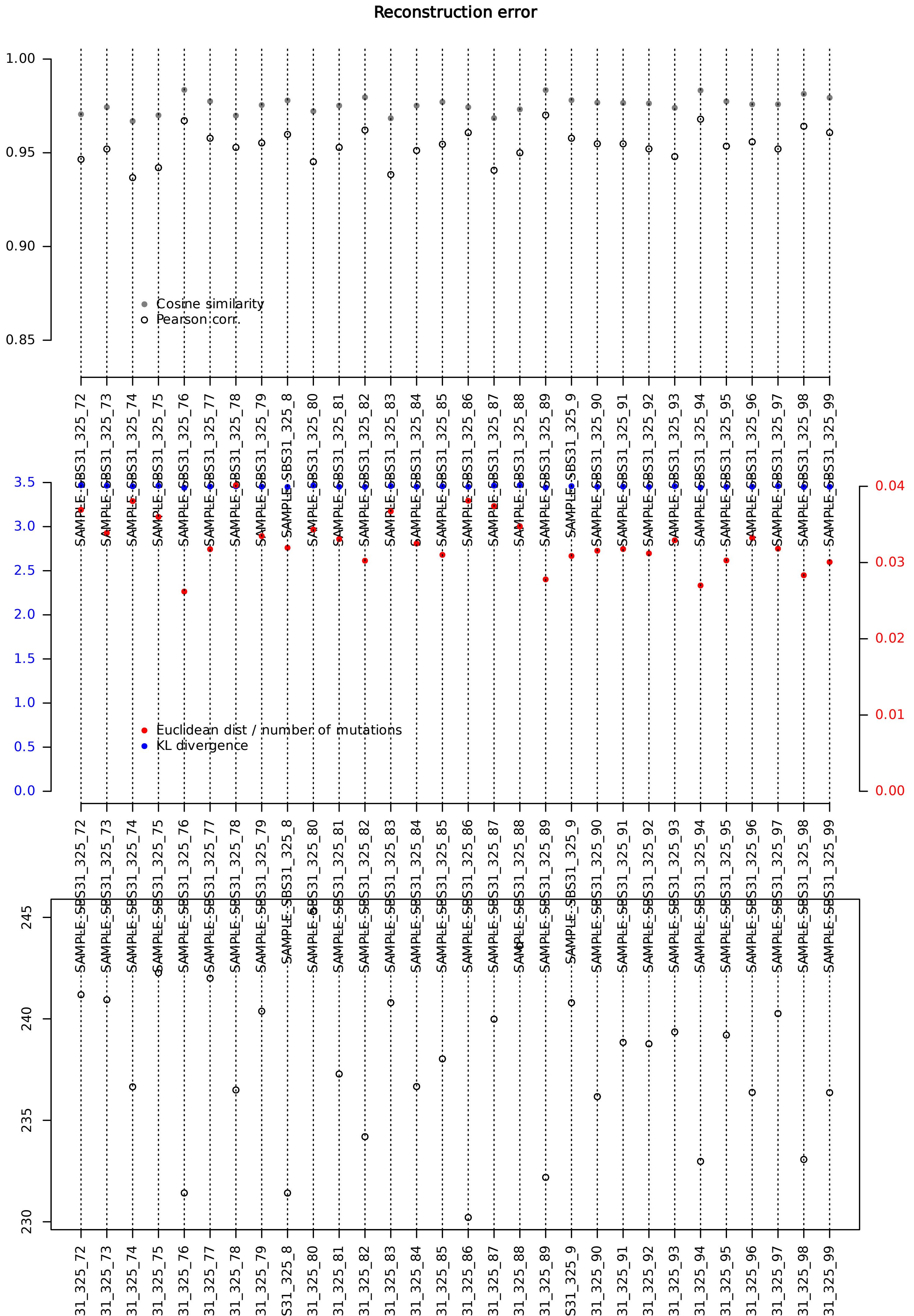

Reconstruction error

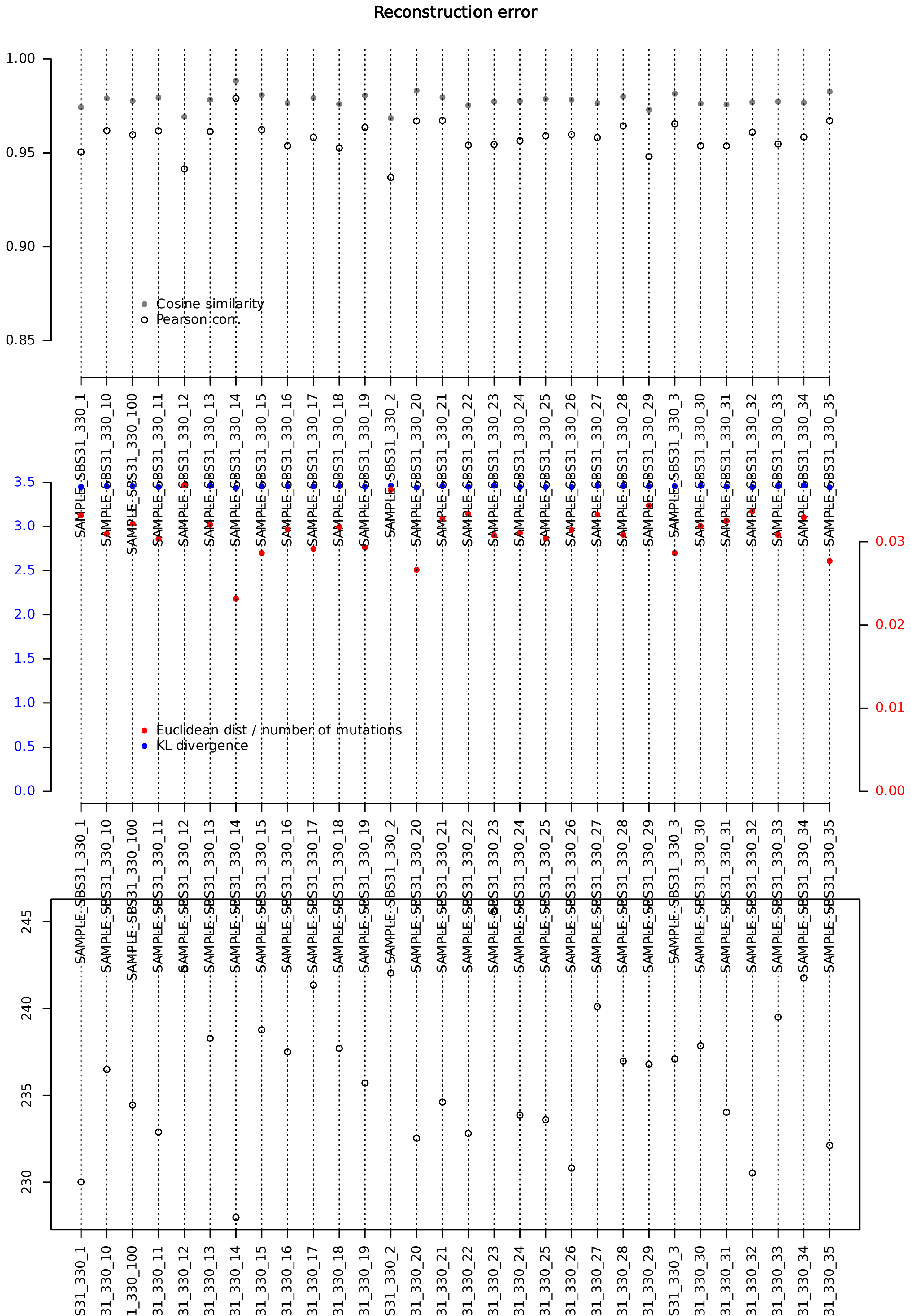

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
Euclidean dist / number of mutations
KL divergence
244
242
240
238
236
234
232
230
SAMPLE-SBS31_320_54
SAMPLE-SBS31_320_55
SAMPLE-SBS31_320_56
SAMPLE-SBS31_320_57
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
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


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
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
SAMPLE-SBS31_320_95
SAMPLE-SBS31_320_96
SAMPLE-SBS31_320_97
SAMPLE-SBS31_320_98
SAMPLE-SBS31_320_99
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
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
244
242
240
238
236
234
232
230

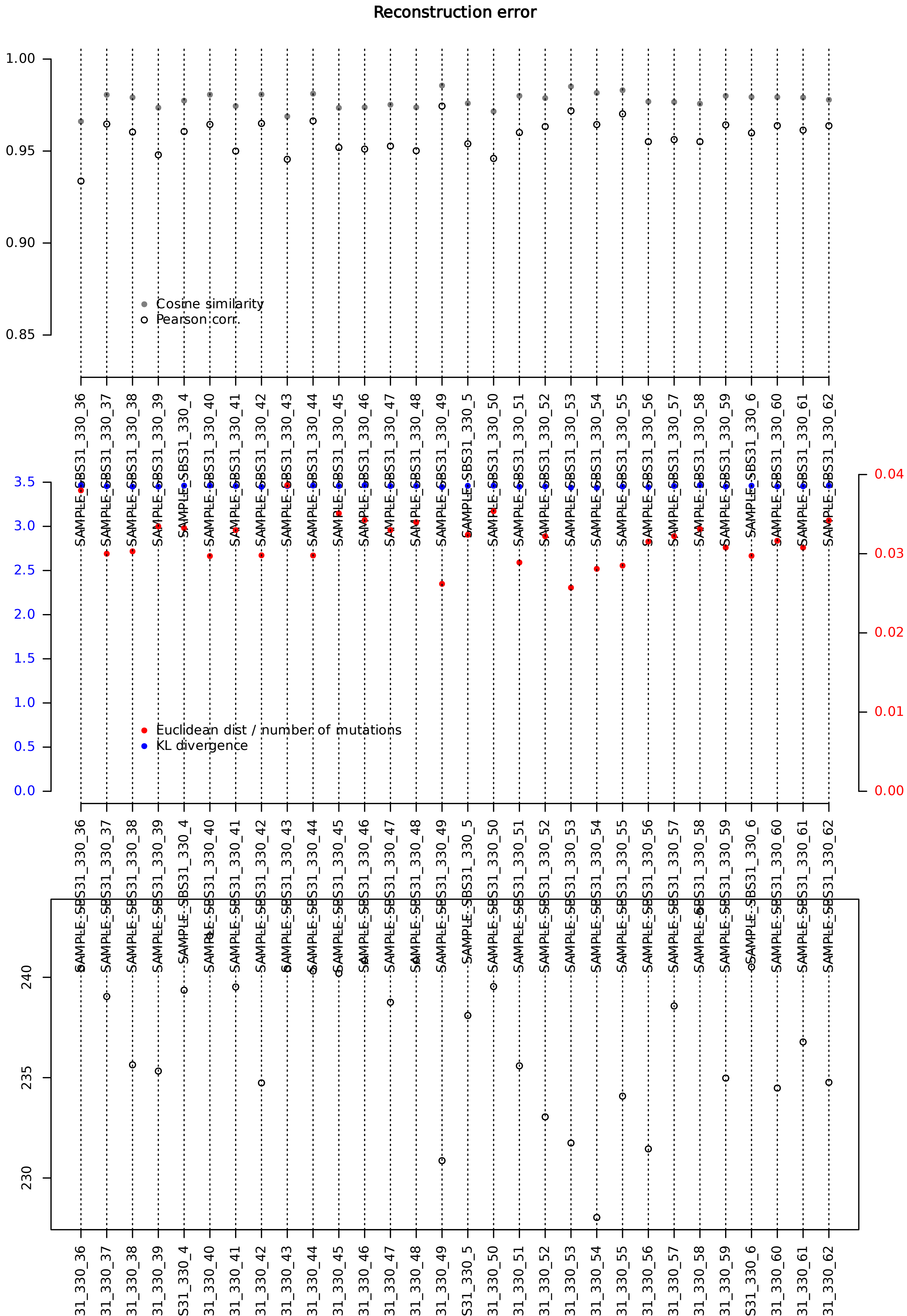

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
SAMPLE-SBS31_325_18
SAMPLE-SBS31_325_19
SAMPLE-SBS31_325_2
SAMPLE-SBS31_325_20
SAMPLE-SBS31_325_21
SAMPLE-SBS31_325_22
SAMPLE-SBS31_325_23
SAMPLE-SBS31_325_24
SAMPLE-SBS31_325_25
SAMPLE-SBS31_325_26
SAMPLE-SBS31_325_27
SAMPLE-SBS31_325_28
SAMPLE-SBS31_325_29
SAMPLE-SBS31_325_3
SAMPLE-SBS31_325_30
SAMPLE-SBS31_325_31
SAMPLE-SBS31_325_32
SAMPLE-SBS31_325_33
SAMPLE-SBS31_325_34
SAMPLE-SBS31_325_35
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
SAMPLE-SBS31_325_44
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
240
235
230

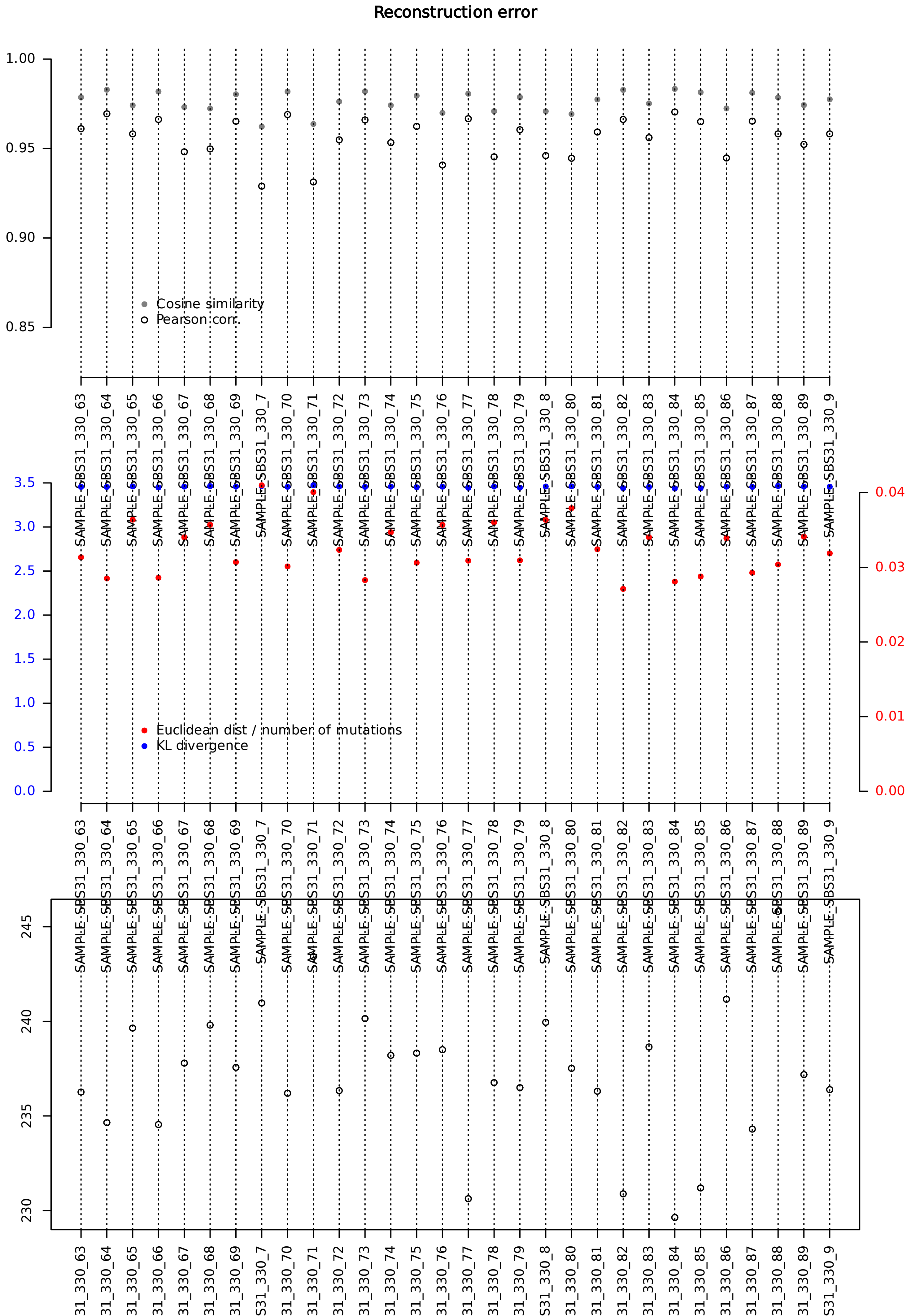

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
245
240
235
SAMPLE-SBS31_325_45
SAMPLE-SBS31_325_46
SAMPLE-SBS31_325_47
SAMPLE-SBS31_325_48
SAMPLE-SBS31_325_49
SAMPLE-SBS31_325_5
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
SAMPLE-SBS31_325_63
SAMPLE-SBS31_325_64
SAMPLE-SBS31_325_65
SAMPLE-SBS31_325_66
SAMPLE-SBS31_325_67
SAMPLE-SBS31_325_68
SAMPLE-SBS31_325_69
SAMPLE-SBS31_325_7
SAMPLE-SBS31_325_70
SAMPLE-SBS31_325_71


Reconstruction error

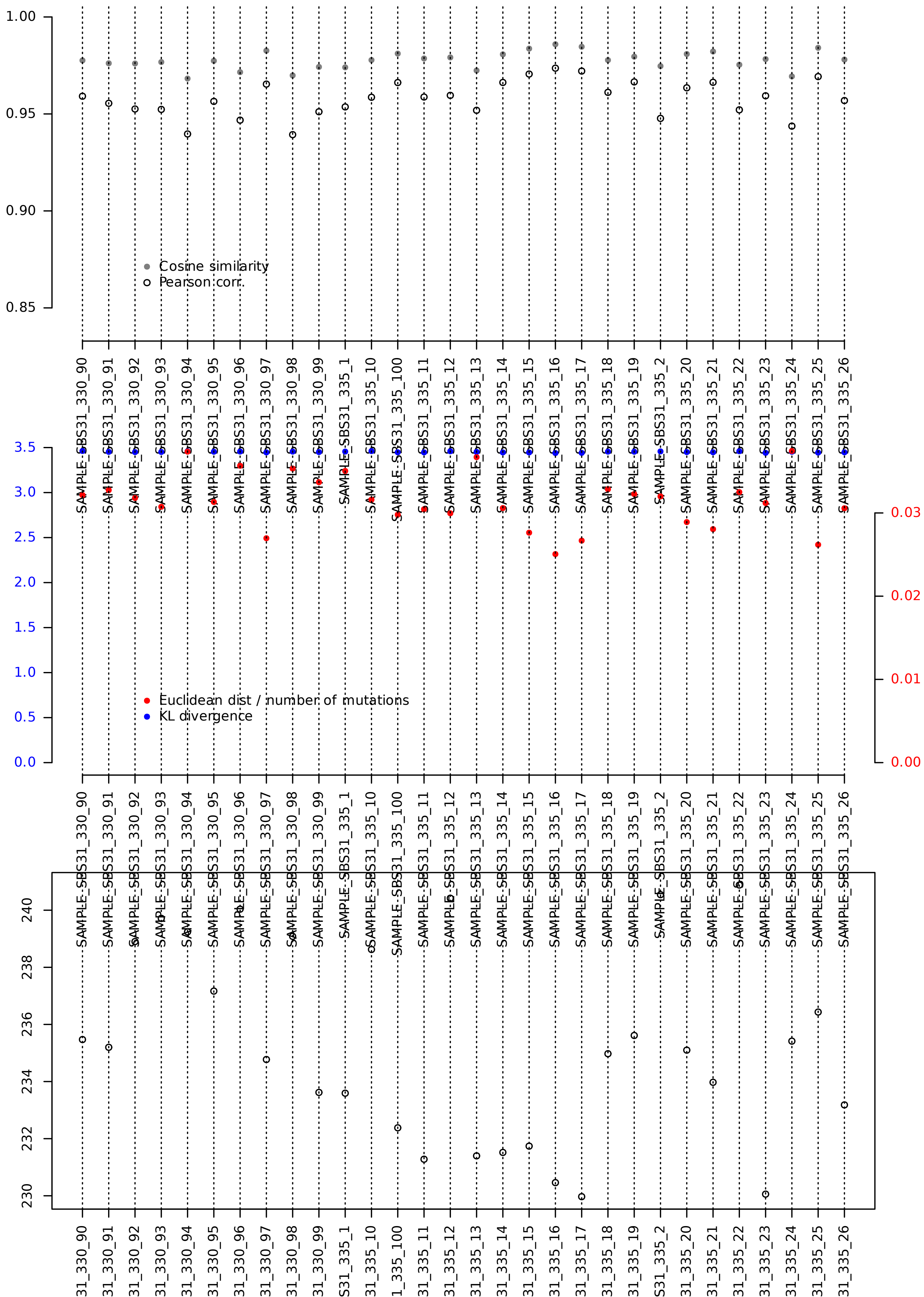


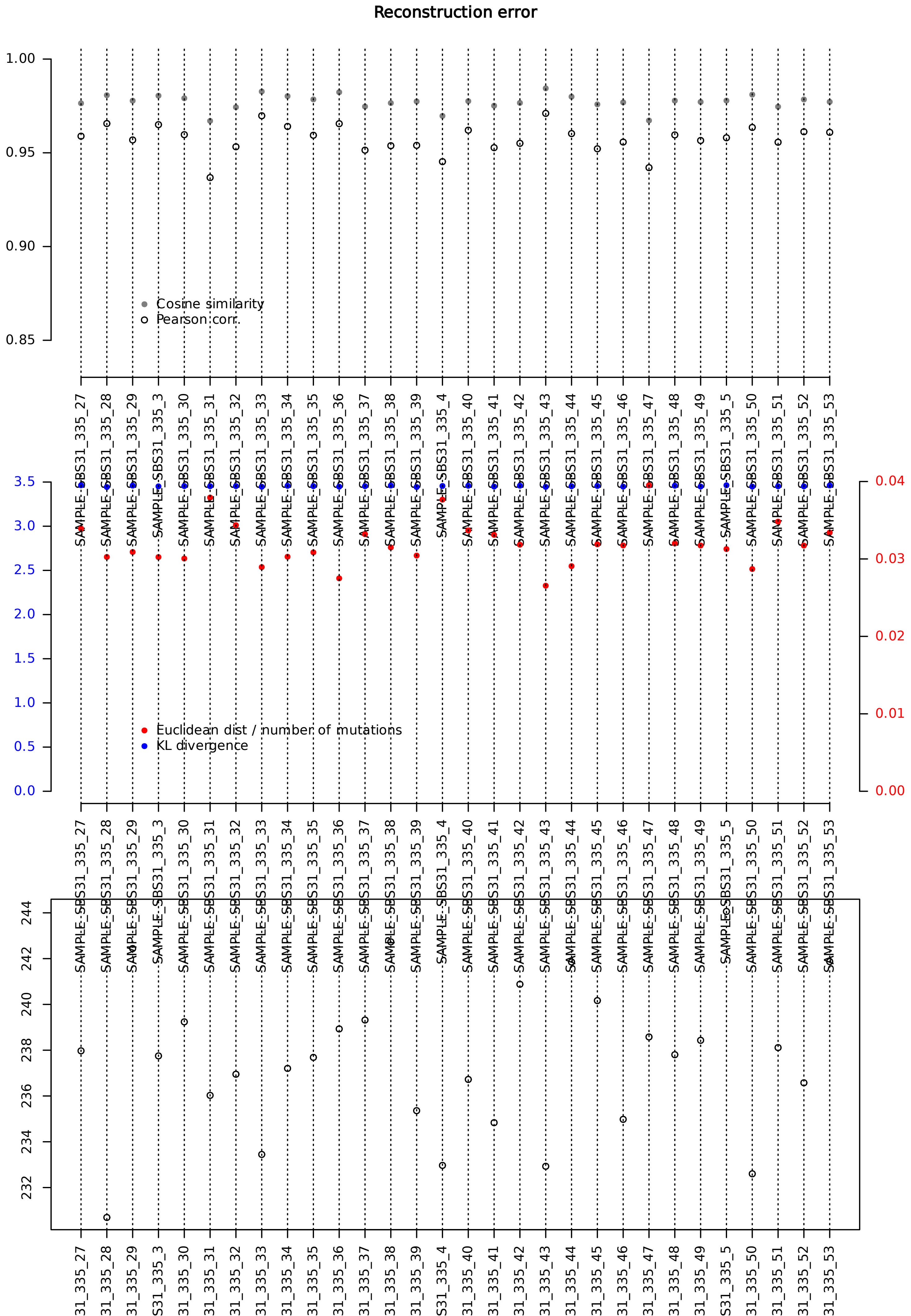
Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
SAMPLE-SBS31_330_1
SAMPLE-SBS31_330_10
SAMPLE-SBS31_330_100
SAMPLE-SBS31_330_11
SAMPLE-SBS31_330_12
SAMPLE-SBS31_330_13
SAMPLE-SBS31_330_14
SAMPLE-SBS31_330_15
SAMPLE-SBS31_330_16
SAMPLE-SBS31_330_17
SAMPLE-SBS31_330_18
SAMPLE-SBS31_330_19
SAMPLE-SBS31_330_2
SAMPLE-SBS31_330_20
SAMPLE-SBS31_330_21
SAMPLE-SBS31_330_22
SAMPLE-SBS31_330_23
SAMPLE-SBS31_330_24
SAMPLE-SBS31_330_25
SAMPLE-SBS31_330_26
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
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
245
240
235
230


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
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
SAMPLE-SBS31_330_46
SAMPLE-SBS31_330_47
SAMPLE-SBS31_330_48
SAMPLE-SBS31_330_49
SAMPLE-SBS31_330_5
SAMPLE-SBS31_330_50
SAMPLE-SBS31_330_51
SAMPLE-SBS31_330_52
SAMPLE-SBS31_330_53
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
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


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
245
240
235
230
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
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

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
244
242
240
238
236
234
232
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
SAMPLE-SBS31_335_45
SAMPLE-SBS31_335_46
SAMPLE-SBS31_335_47
SAMPLE-SBS31_335_48
SAMPLE-SBS31_335_49
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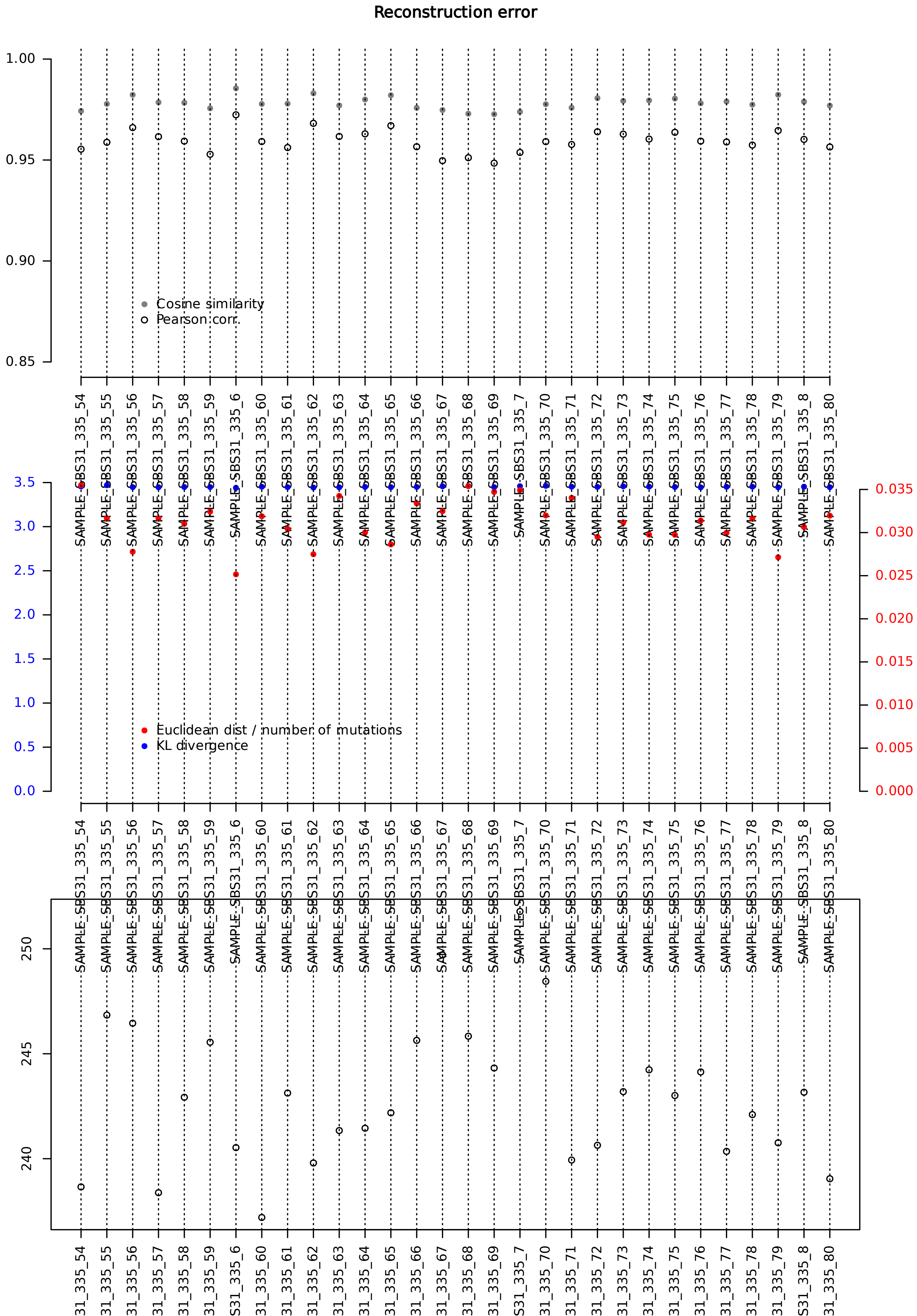
SAMPLE-SBS31_335_50
SAMPLE-SBS31_335_51
SAMPLE-SBS31_335_52
SAMPLE-SBS31_335_53


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
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
Euclidean dist / number of mutations
KL divergence
250
245
240
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
SAMPLE-SBS31_335_72
SAMPLE-SBS31_335_73
SAMPLE-SBS31_335_74
SAMPLE-SBS31_335_75
SAMPLE-SBS31_335_76
SAMPLE-SBS31_335_77
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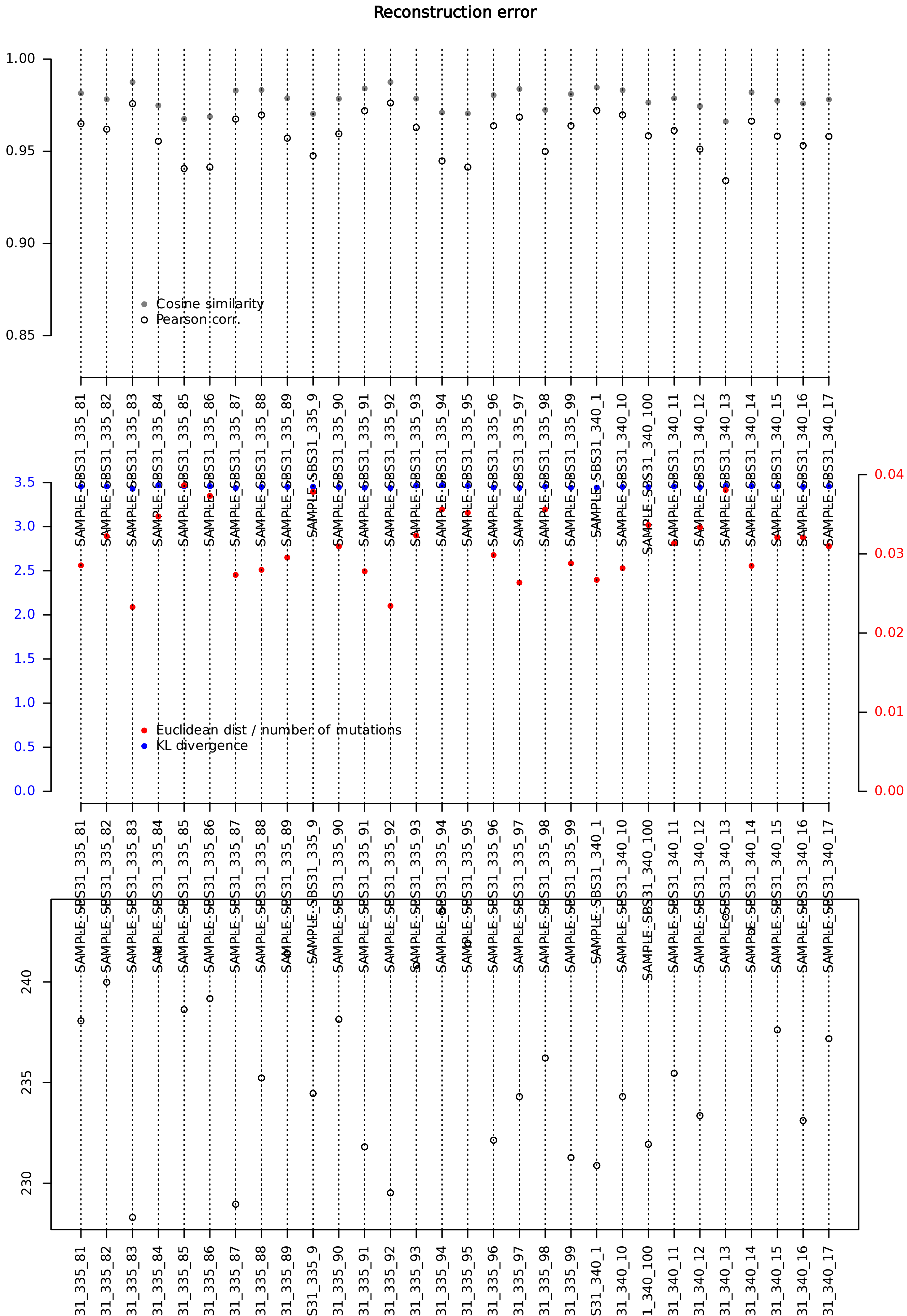
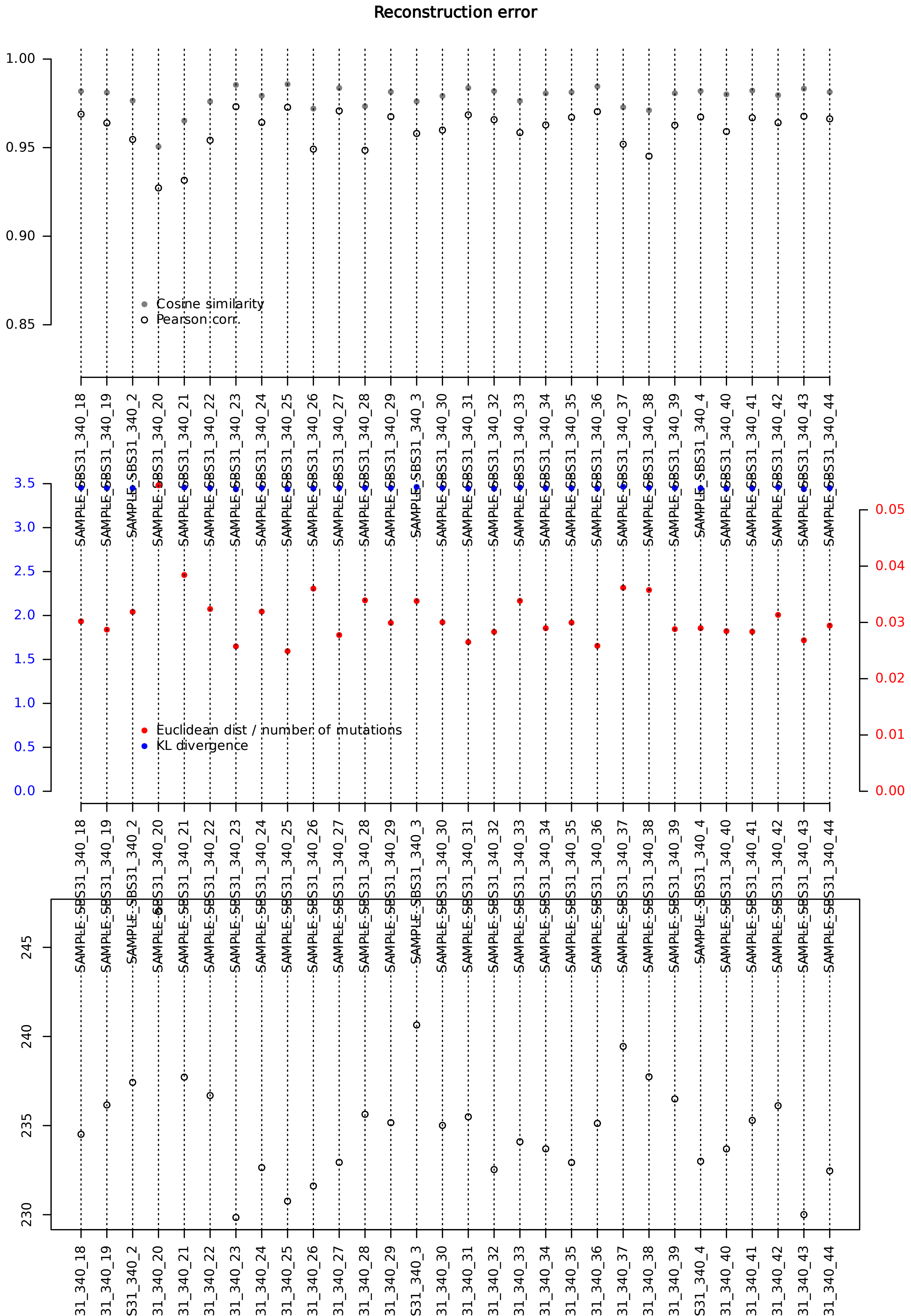
SAMPLE-SBS31_335_80


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
240
235
230
SAMPLE-SBS31_335_81
SAMPLE-SBS31_335_82
SAMPLE-SBS31_335_83
SAMPLE-SBS31_335_84
SAMPLE-SBS31_335_85
SAMPLE-SBS31_335_86
SAMPLE-SBS31_335_87
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
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


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
245
240
235
230
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
SAMPLE-SBS31_340_36
SAMPLE-SBS31_340_37
SAMPLE-SBS31_340_38
SAMPLE-SBS31_340_39
SAMPLE-SBS31_340_4
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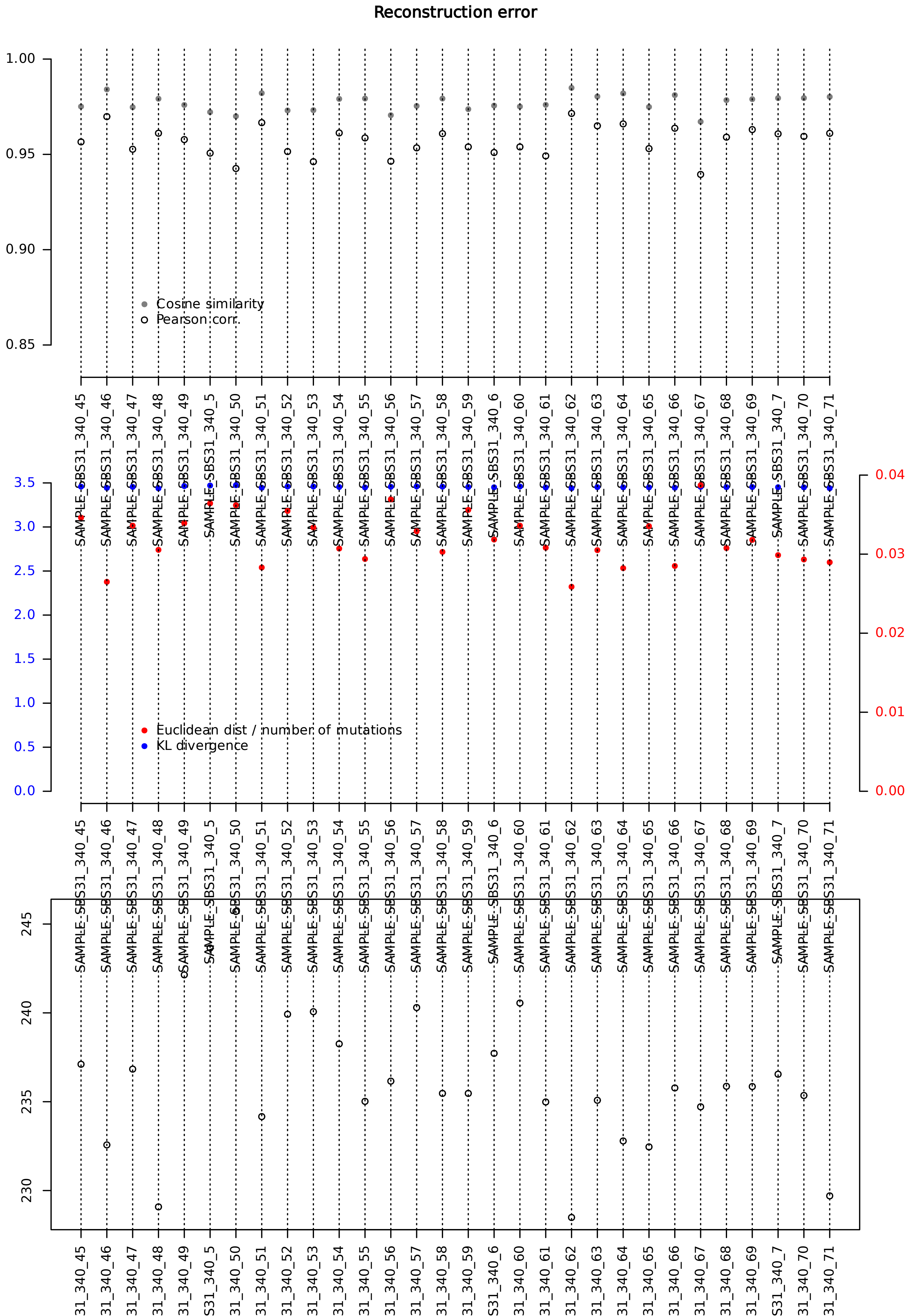
SAMPLE-SBS31_340_43
SAMPLE-SBS31_340_44


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
245
240
235
230
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
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SAMPLE-SBS31_340_55
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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
SAMPLE-SBS31_340_63
SAMPLE-SBS31_340_64
SAMPLE-SBS31_340_65
SAMPLE-SBS31_340_66
SAMPLE-SBS31_340_67
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SAMPLE-SBS31_340_69
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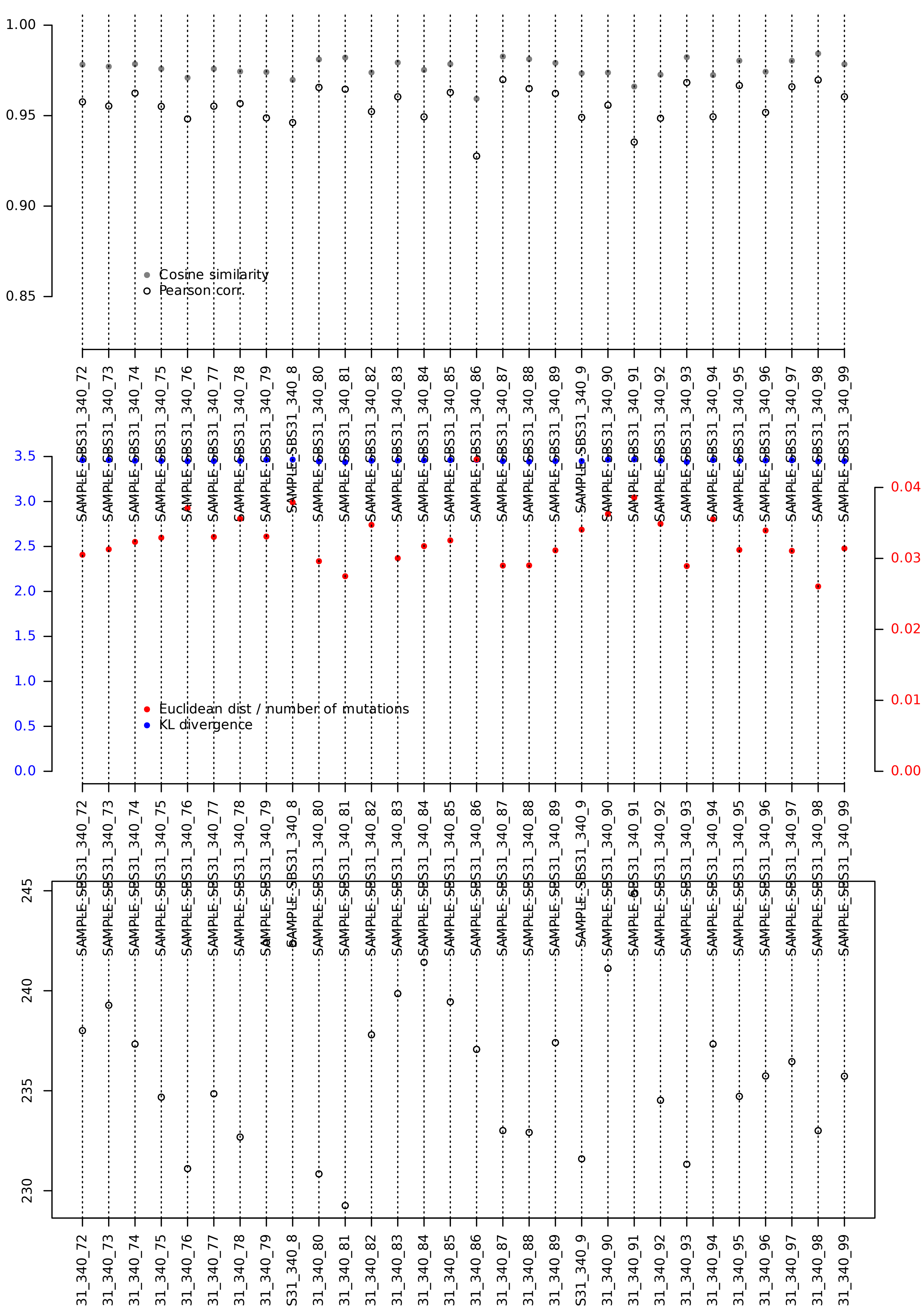
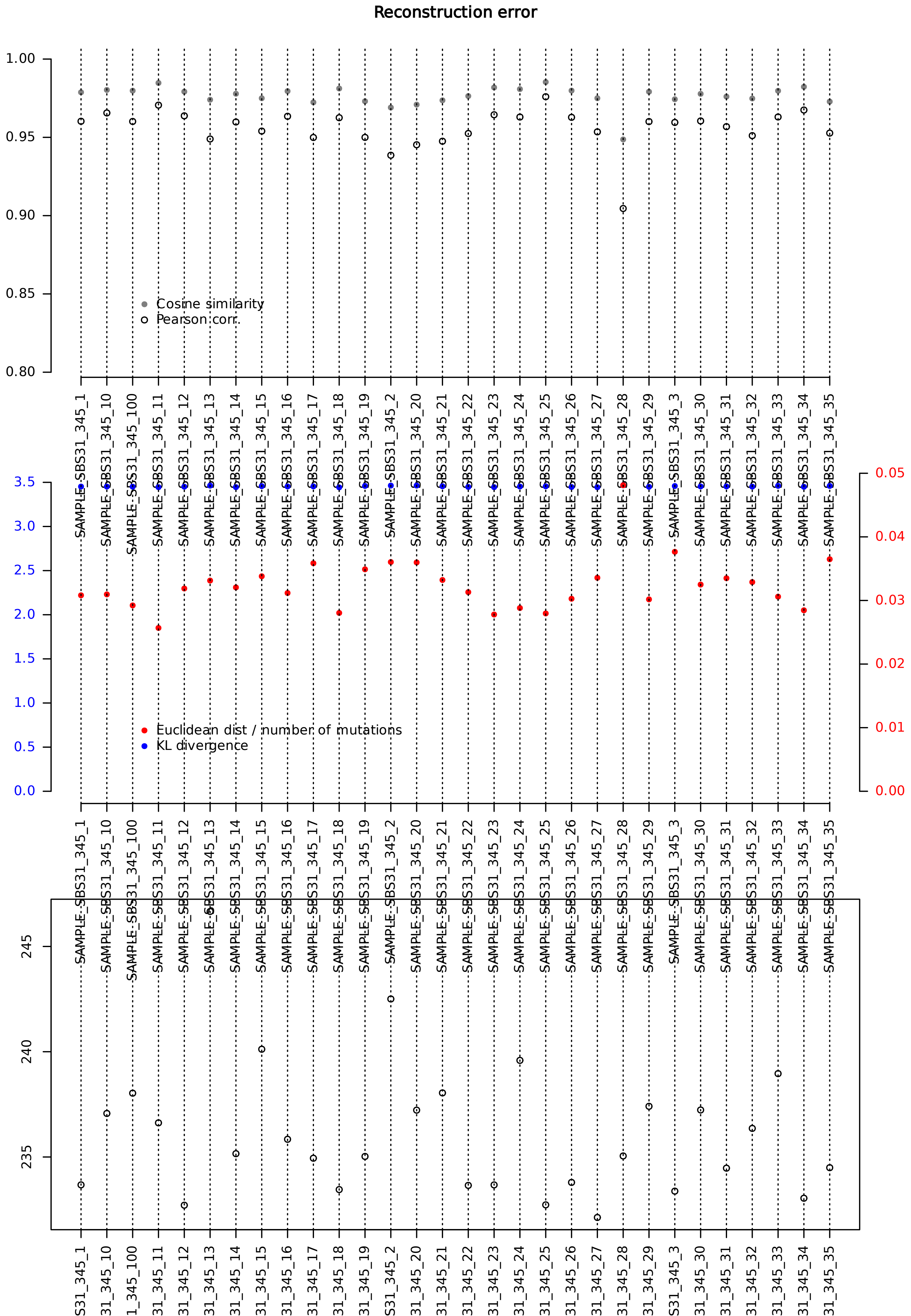
SAMPLE-SBS31_340_70
SAMPLE-SBS31_340_71


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
245
240
235
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
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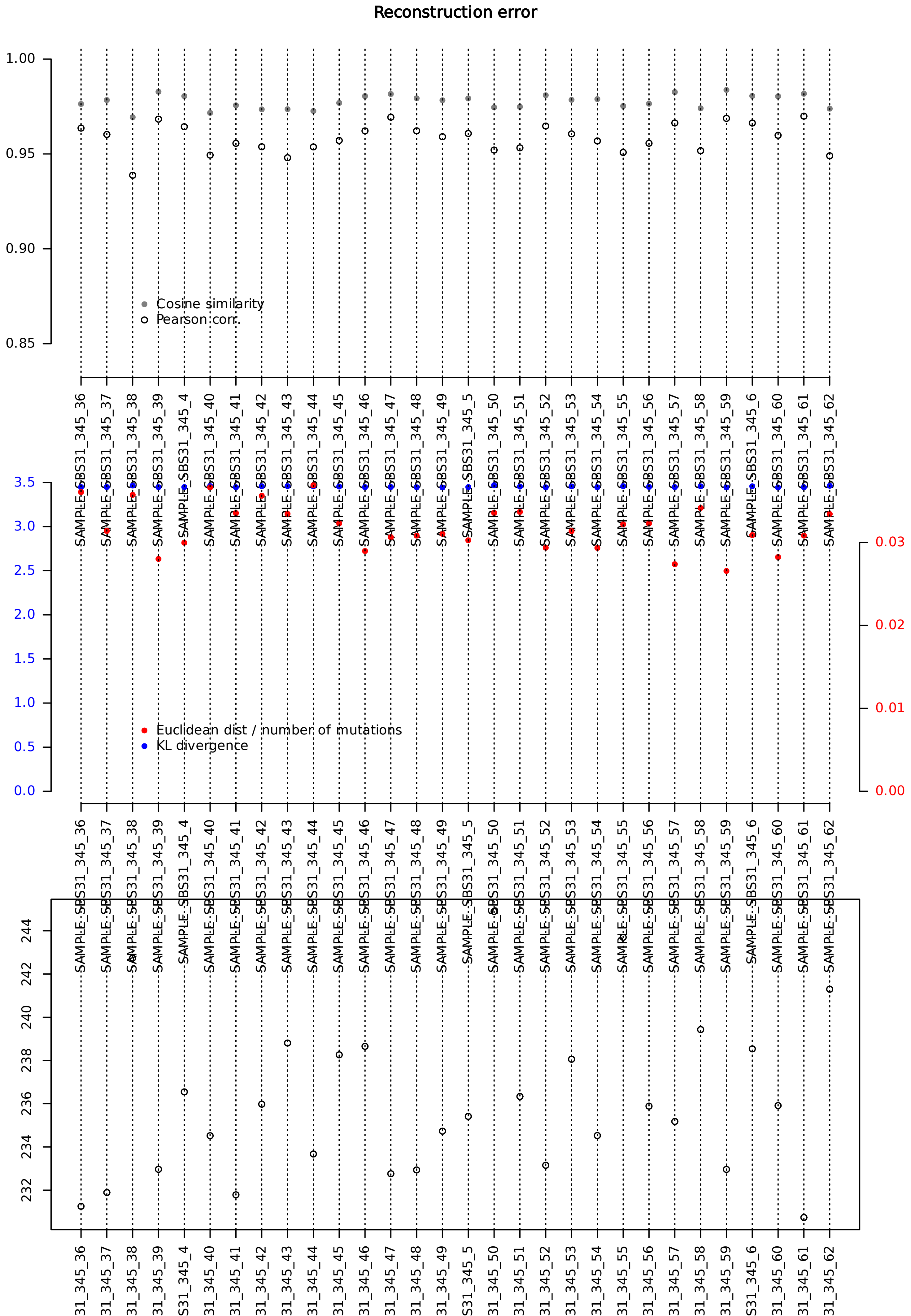
SAMPLE-SBS31_345_17
SAMPLE-SBS31_345_18
SAMPLE-SBS31_345_19
SAMPLE-SBS31_345_2
SAMPLE-SBS31_345_20
SAMPLE-SBS31_345_21
SAMPLE-SBS31_345_22
SAMPLE-SBS31_345_23
SAMPLE-SBS31_345_24
SAMPLE-SBS31_345_25
SAMPLE-SBS31_345_26
SAMPLE-SBS31_345_27
SAMPLE-SBS31_345_28
SAMPLE-SBS31_345_29
SAMPLE-SBS31_345_3
SAMPLE-SBS31_345_30
SAMPLE-SBS31_345_31
SAMPLE-SBS31_345_32
SAMPLE-SBS31_345_33
SAMPLE-SBS31_345_34
SAMPLE-SBS31_345_35_


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
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
244
242
240
238
236
234
232
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
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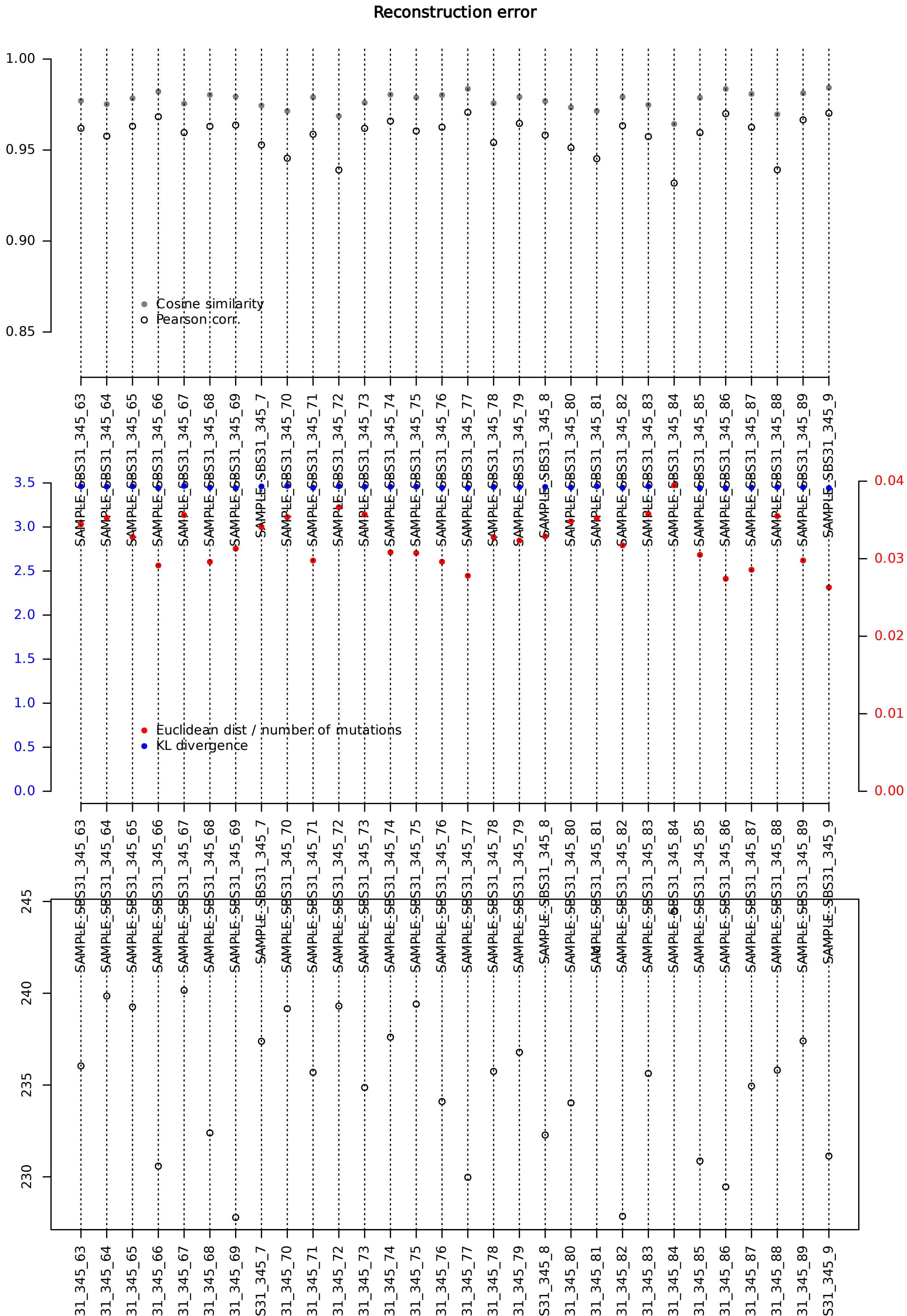
SAMPLE-SBS31_345_61
SAMPLE-SBS31_345_62


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
245
240
235
230
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
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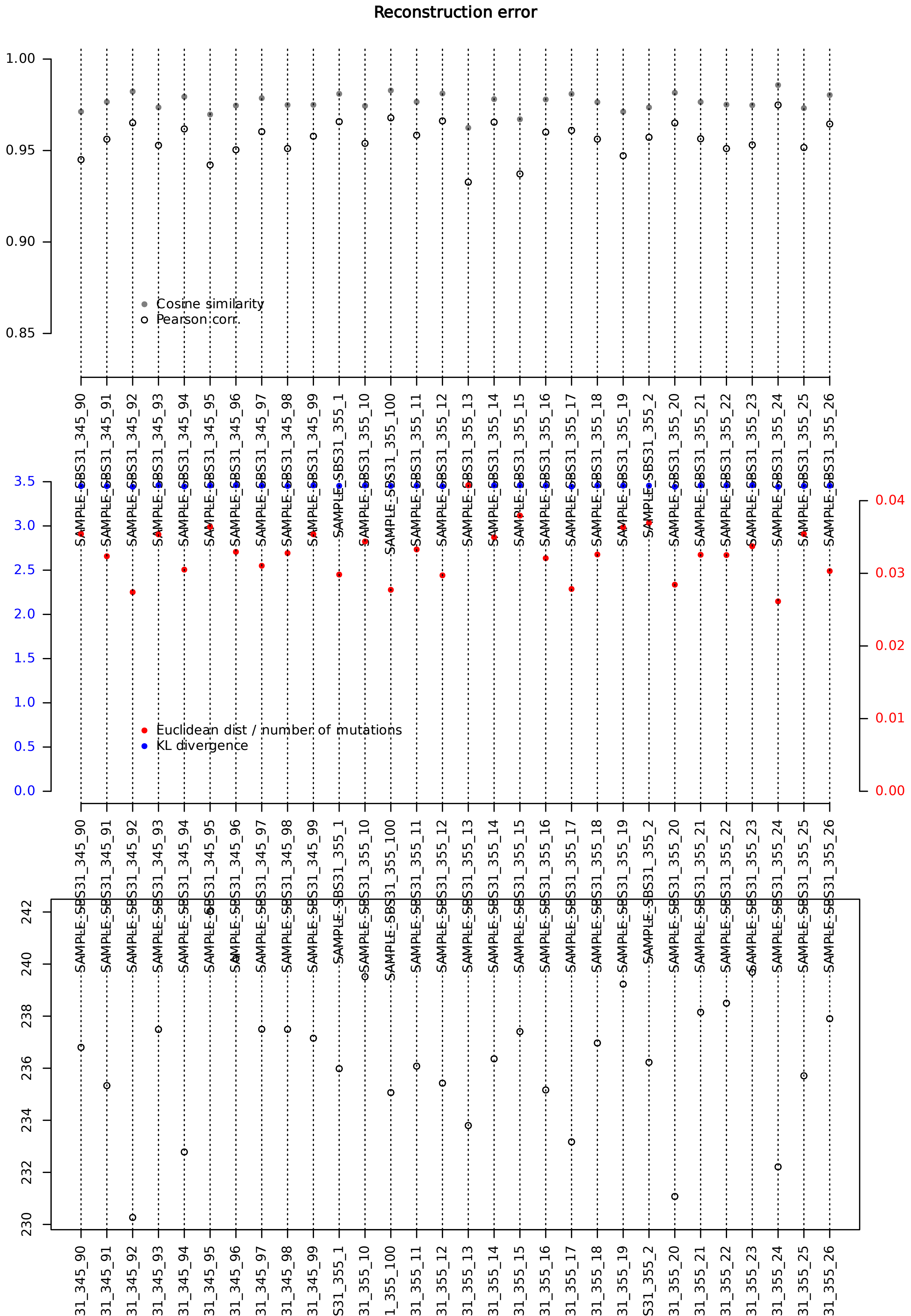
SAMPLE-SBS31_345_89
SAMPLE-SBS31_345_9


Reconstruction error
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0.95
0.90
0.85
Cosine similarity
Pearson corr.
SAMPLE-SBS31_345_90
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SAMPLE-SBS31_345_92
SAMPLE-SBS31_345_93
SAMPLE-SBS31_345_94
SAMPLE-SBS31_345_95
SAMPLE-SBS31_345_96
SAMPLE-SBS31_345_97
SAMPLE-SBS31_345_98
SAMPLE-SBS31_345_99
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
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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
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
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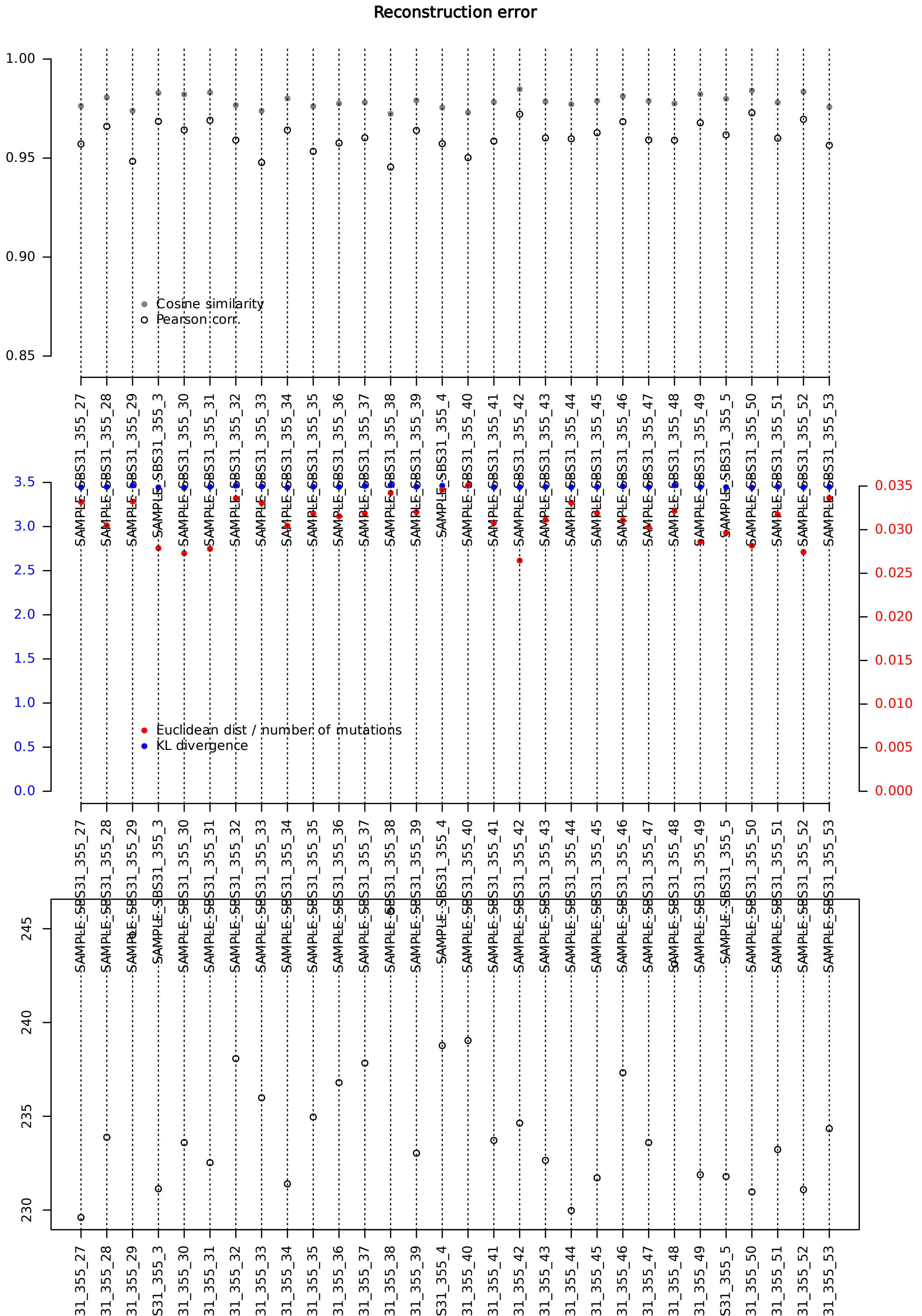
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
242
240
238
236
234
232
230


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
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
Euclidean dist / number of mutations
KL divergence
245
240
235
230
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
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SAMPLE-SBS31_355_48
SAMPLE-SBS31_355_49
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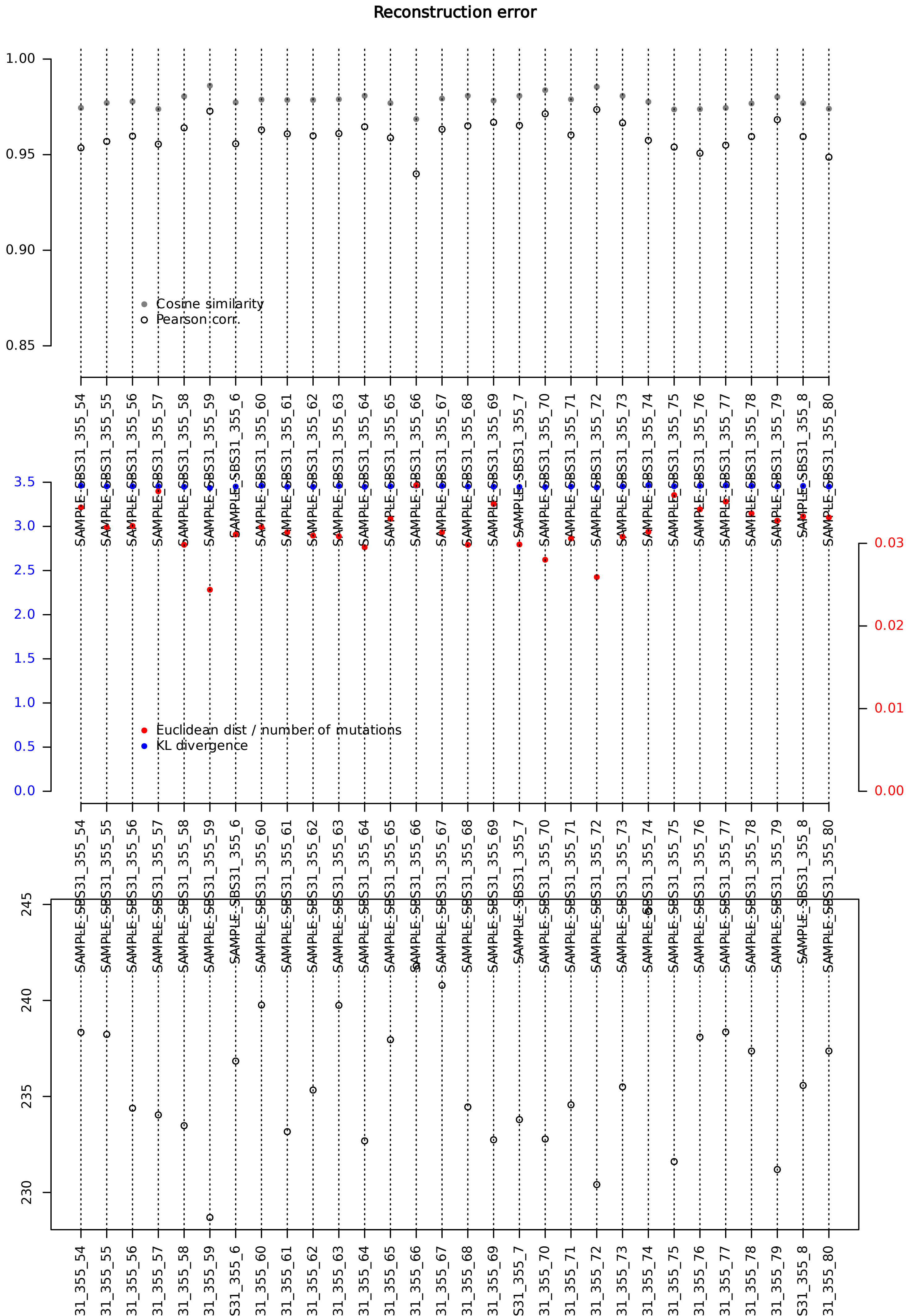
SAMPLE-SBS31_355_51
SAMPLE-SBS31_355_52
SAMPLE-SBS31_355_53


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
SAMPLE-SBS31_355_54
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SAMPLE-SBS31_355_56
SAMPLE-SBS31_355_57
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SAMPLE-SBS31_355_6
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SAMPLE-SBS31_355_63
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SAMPLE-SBS31_355_66
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SAMPLE-SBS31_355_77
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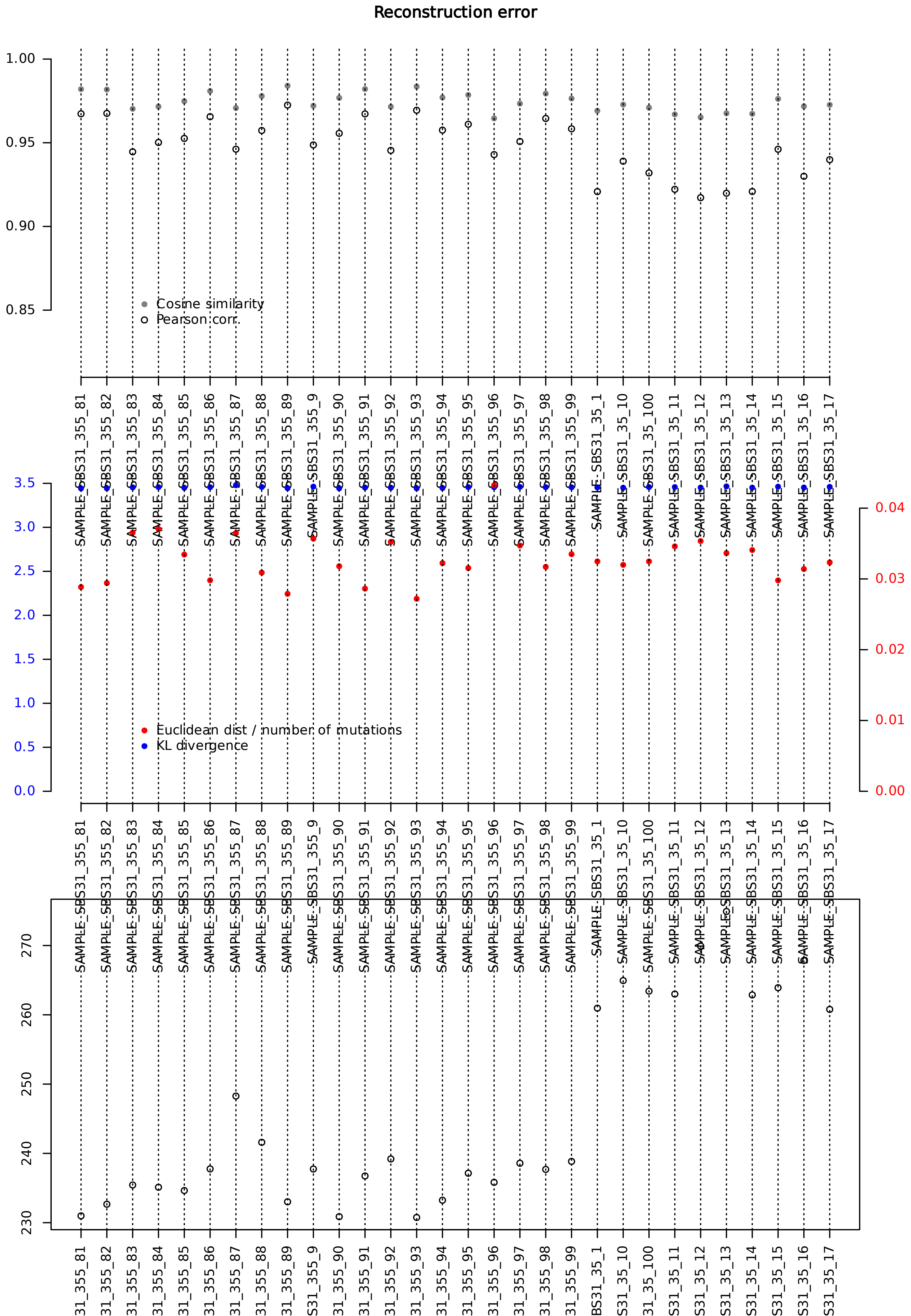
SAMPLE-SBS31_355_8
SAMPLE-SBS31_355_80
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
245
240
235
230


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
270
260
250
240
230
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
SAMPLE-SBS31_355_90
SAMPLE-SBS31_355_91
SAMPLE-SBS31_355_92
SAMPLE-SBS31_355_93
SAMPLE-SBS31_355_94
SAMPLE-SBS31_355_95
SAMPLE-SBS31_355_96
SAMPLE-SBS31_355_97
SAMPLE-SBS31_355_98
SAMPLE-SBS31_355_99
SAMPLE-SBS31_35_1
SAMPLE-SBS31_35_10
SAMPLE-SBS31_35_100
SAMPLE-SBS31_35_11
SAMPLE-SBS31_35_12
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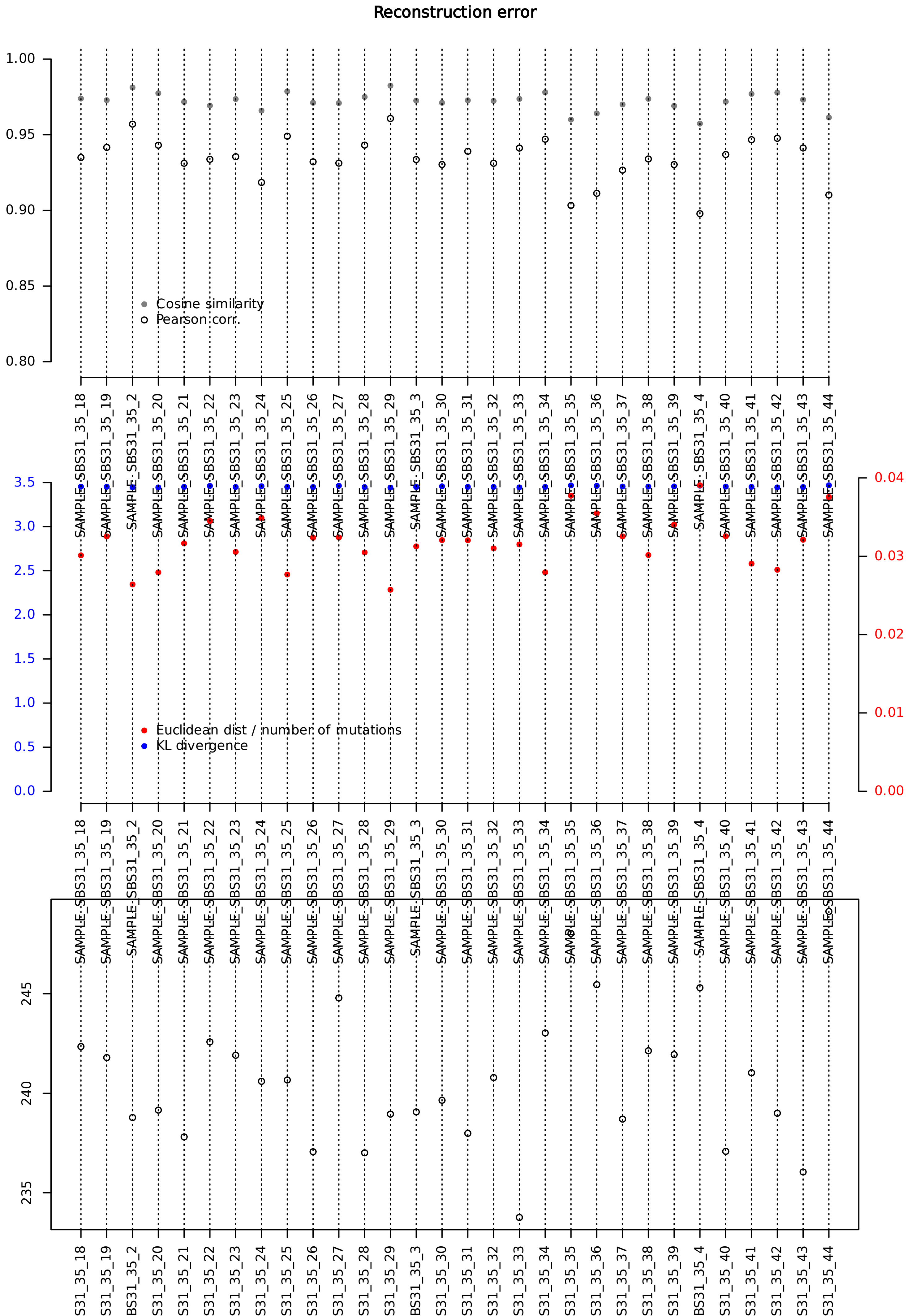
SAMPLE-SBS31_35_15
SAMPLE-SBS31_35_16
SAMPLE-SBS31_35_17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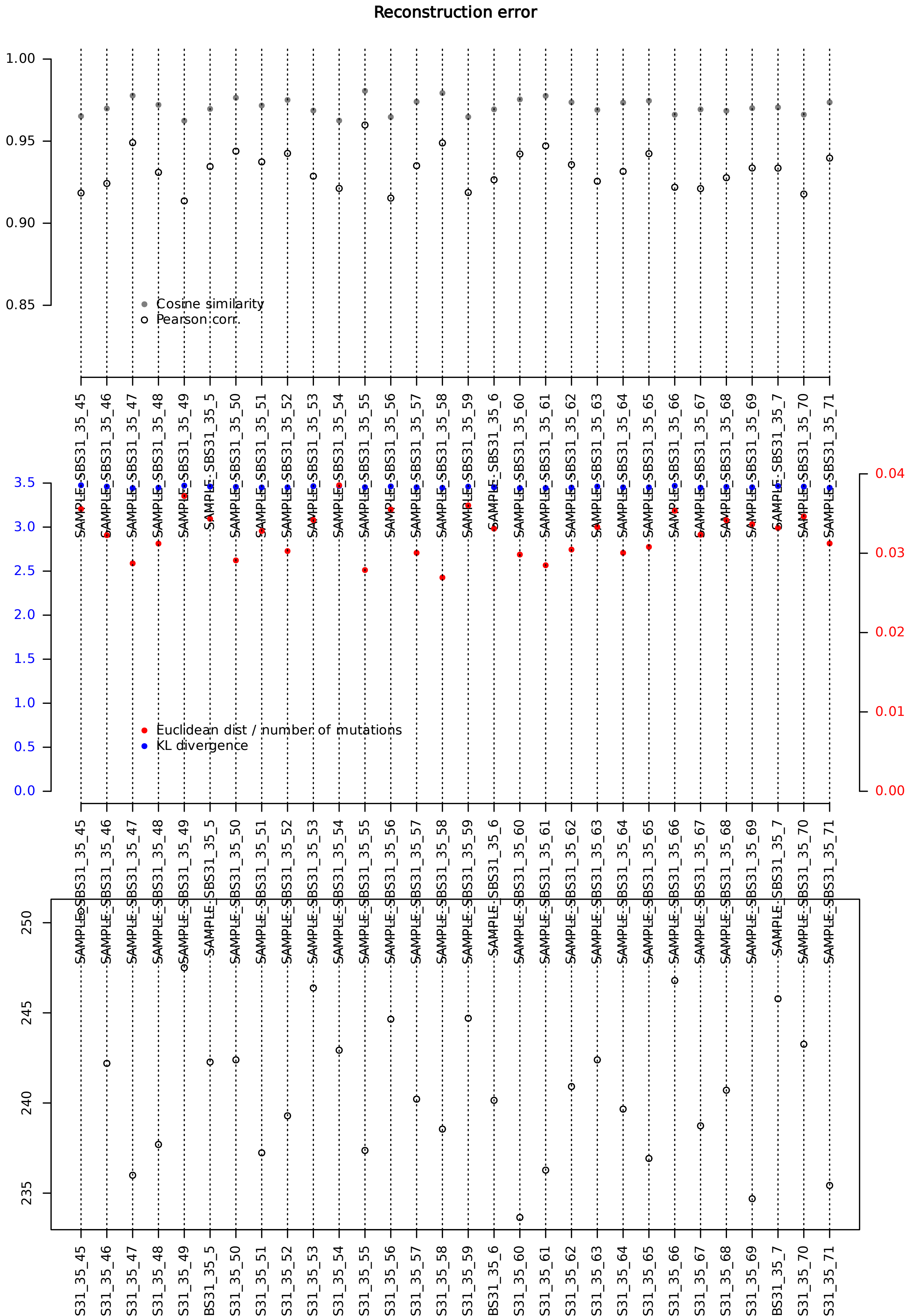
1.00
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
245
240
235
SAMPLE-SBS31_35_18
SAMPLE-SBS31_35_19
SAMPLE-SBS31_35_2
SAMPLE-SBS31_35_20
SAMPLE-SBS31_35_21
SAMPLE-SBS31_35_22
SAMPLE-SBS31_35_23
SAMPLE-SBS31_35_24
SAMPLE-SBS31_35_25
SAMPLE-SBS31_35_26
SAMPLE-SBS31_35_27
SAMPLE-SBS31_35_28
SAMPLE-SBS31_35_29
SAMPLE-SBS31_35_3
SAMPLE-SBS31_35_30
SAMPLE-SBS31_35_31
SAMPLE-SBS31_35_32
SAMPLE-SBS31_35_33
SAMPLE-SBS31_35_34
SAMPLE-SBS31_35_35
SAMPLE-SBS31_35_36
SAMPLE-SBS31_35_37
SAMPLE-SBS31_35_38
SAMPLE-SBS31_35_39
SAMPLE-SBS31_35_4
SAMPLE-SBS31_35_40
SAMPLE-SBS31_35_41
SAMPLE-SBS31_35_42
SAMPLE-SBS31_35_43
SAMPLE-SBS31_35_44


Reconstruction error
1.00
0.95
0.90
0.85
● Cosine similarity
○ Pearson corr.
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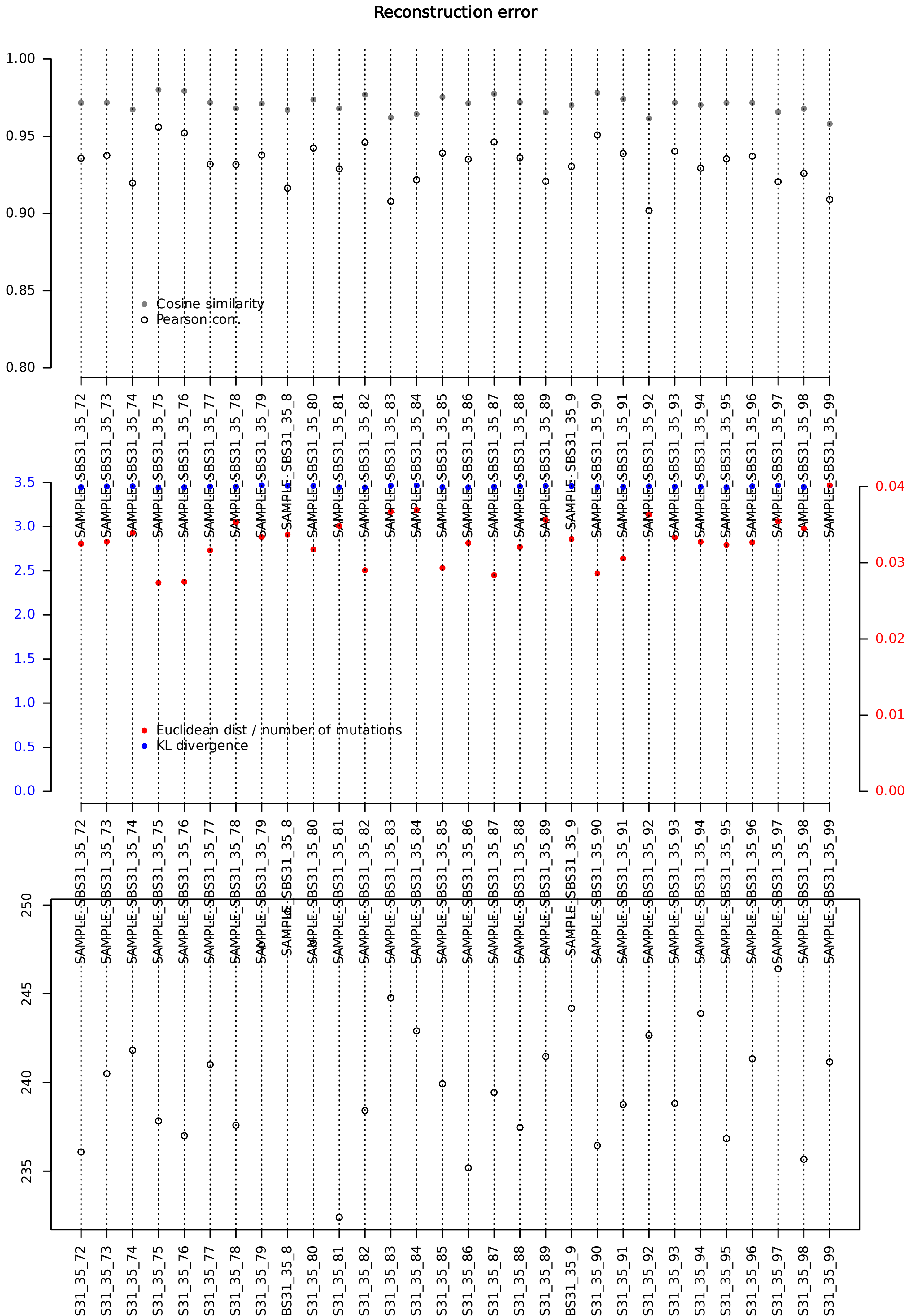
SAMPLE-SBS31_35_46
SAMPLE-SBS31_35_47
SAMPLE-SBS31_35_48
SAMPLE-SBS31_35_49
SAMPLE-SBS31_35_5
SAMPLE-SBS31_35_50
SAMPLE-SBS31_35_51
SAMPLE-SBS31_35_52
SAMPLE-SBS31_35_53
SAMPLE-SBS31_35_54
SAMPLE-SBS31_35_55
SAMPLE-SBS31_35_56
SAMPLE-SBS31_35_57
SAMPLE-SBS31_35_58
SAMPLE-SBS31_35_59
SAMPLE-SBS31_35_6
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
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

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
250
245
240
235
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
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
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SAMPLE-SBS31_35_93
SAMPLE-SBS31_35_94
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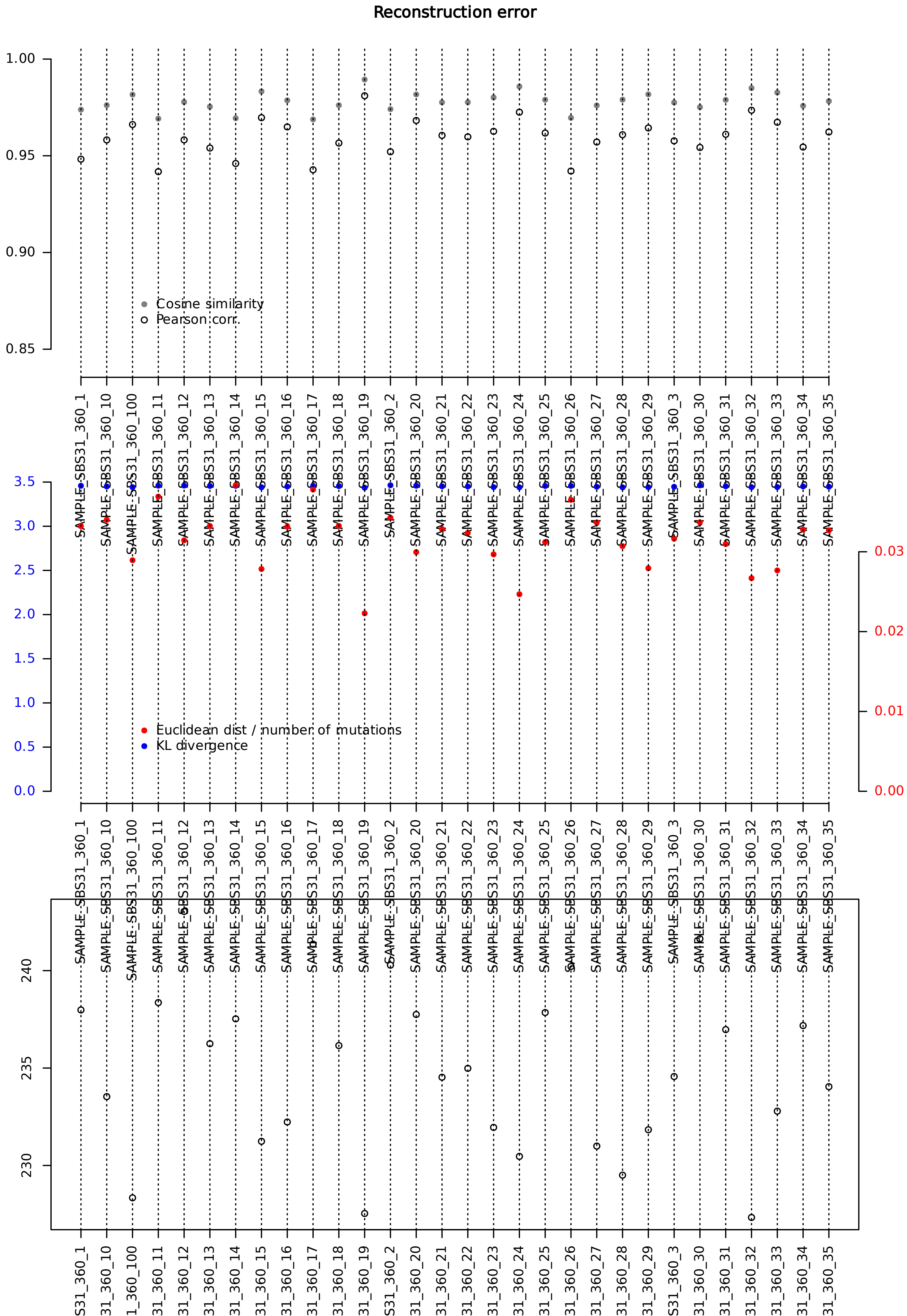
SAMPLE-SBS31_35_96
SAMPLE-SBS31_35_97
SAMPLE-SBS31_35_98
SAMPLE-SBS31_35_99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0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
240
235
230
SAMPLE-SBS31_360_1
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
SAMPLE-SBS31_360_18
SAMPLE-SBS31_360_19
SAMPLE-SBS31_360_2
SAMPLE-SBS31_360_20
SAMPLE-SBS31_360_21
SAMPLE-SBS31_360_22
SAMPLE-SBS31_360_23
SAMPLE-SBS31_360_24
SAMPLE-SBS31_360_25
SAMPLE-SBS31_360_26
SAMPLE-SBS31_360_27
SAMPLE-SBS31_360_28
SAMPLE-SBS31_360_29
SAMPLE-SBS31_360_3
SAMPLE-SBS31_360_30
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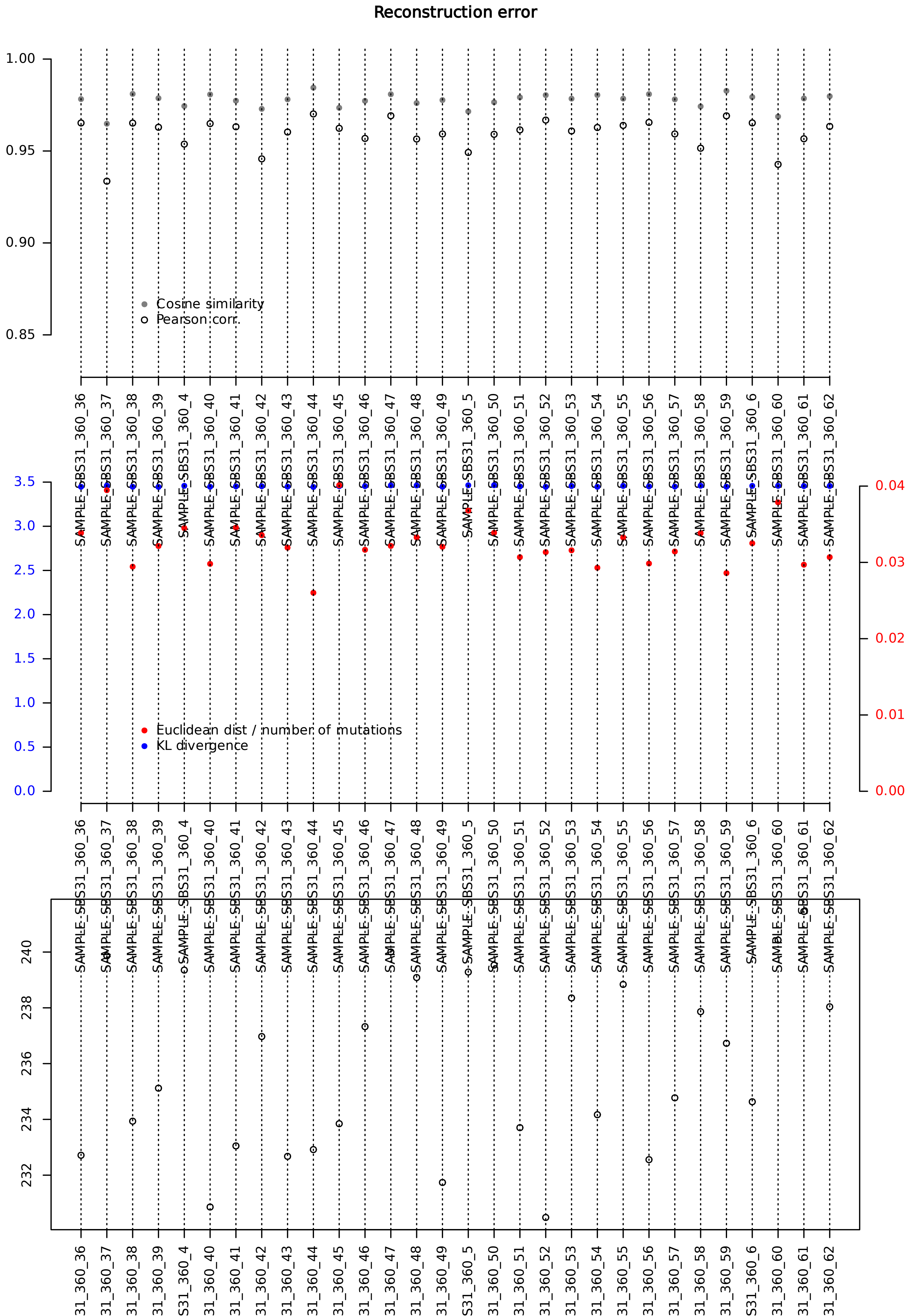
SAMPLE-SBS31_360_33
SAMPLE-SBS31_360_34
SAMPLE-SBS31_360_35


Reconstruction error
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0.95
0.90
0.85
Cosine similarity
Pearson corr.
SAMPLE-SBS31_360_36
SAMPLE-SBS31_360_37
SAMPLE-SBS31_360_38
SAMPLE-SBS31_360_39
SAMPLE-SBS31_360_4
SAMPLE-SBS31_360_40
SAMPLE-SBS31_360_41
SAMPLE-SBS31_360_42
SAMPLE-SBS31_360_43
SAMPLE-SBS31_360_44
SAMPLE-SBS31_360_45
SAMPLE-SBS31_360_46
SAMPLE-SBS31_360_47
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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
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_360_36
SAMPLE-SBS31_360_37
SAMPLE-SBS31_360_38
SAMPLE-SBS31_360_39
SAMPLE-SBS31_360_4
SAMPLE-SBS31_360_40
SAMPLE-SBS31_360_41
SAMPLE-SBS31_360_42
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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
240
238
236
234
232
31_360_36
31_360_37
31_360_38
31_360_39
S31_360_4
31_360_40
31_360_41
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31_360_43
31_360_44
31_360_45
31_360_46
31_360_47
31_360_48
31_360_49
S31_360_5
31_360_50
31_360_51
31_360_52
31_360_53
31_360_54
31_360_55
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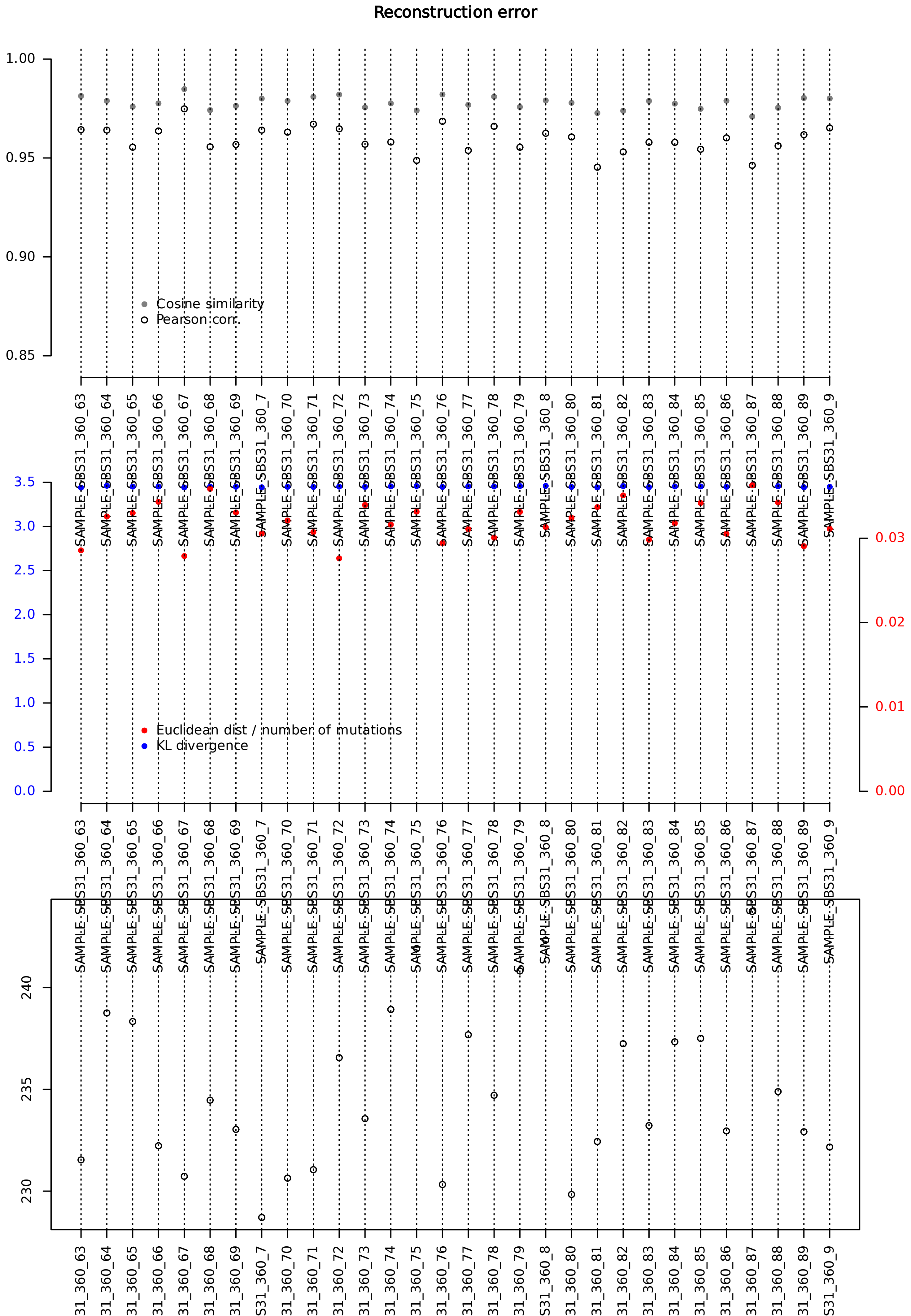
31_360_62


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
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
240
235
230
SAMPLE-SBS31_360_63
SAMPLE-SBS31_360_64
SAMPLE-SBS31_360_65
SAMPLE-SBS31_360_66
SAMPLE-SBS31_360_67
SAMPLE-SBS31_360_68
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SAMPLE-SBS31_360_70
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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
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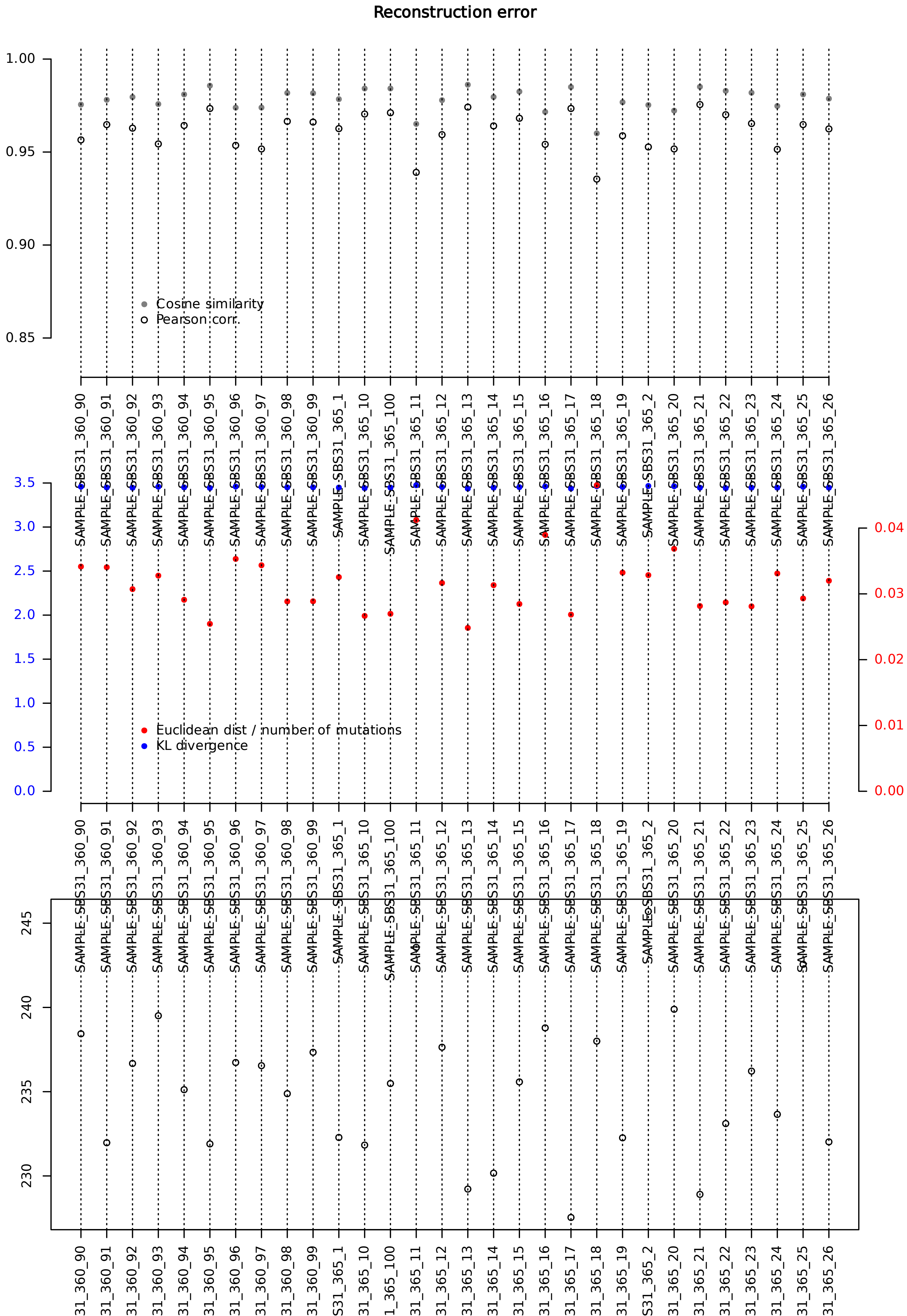
SAMPLE-SBS31_360_89
SAMPLE-SBS31_360_9


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
245
240
235
230
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
SAMPLE-SBS31_365_1
SAMPLE-SBS31_365_10
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SAMPLE-SBS31_365_12
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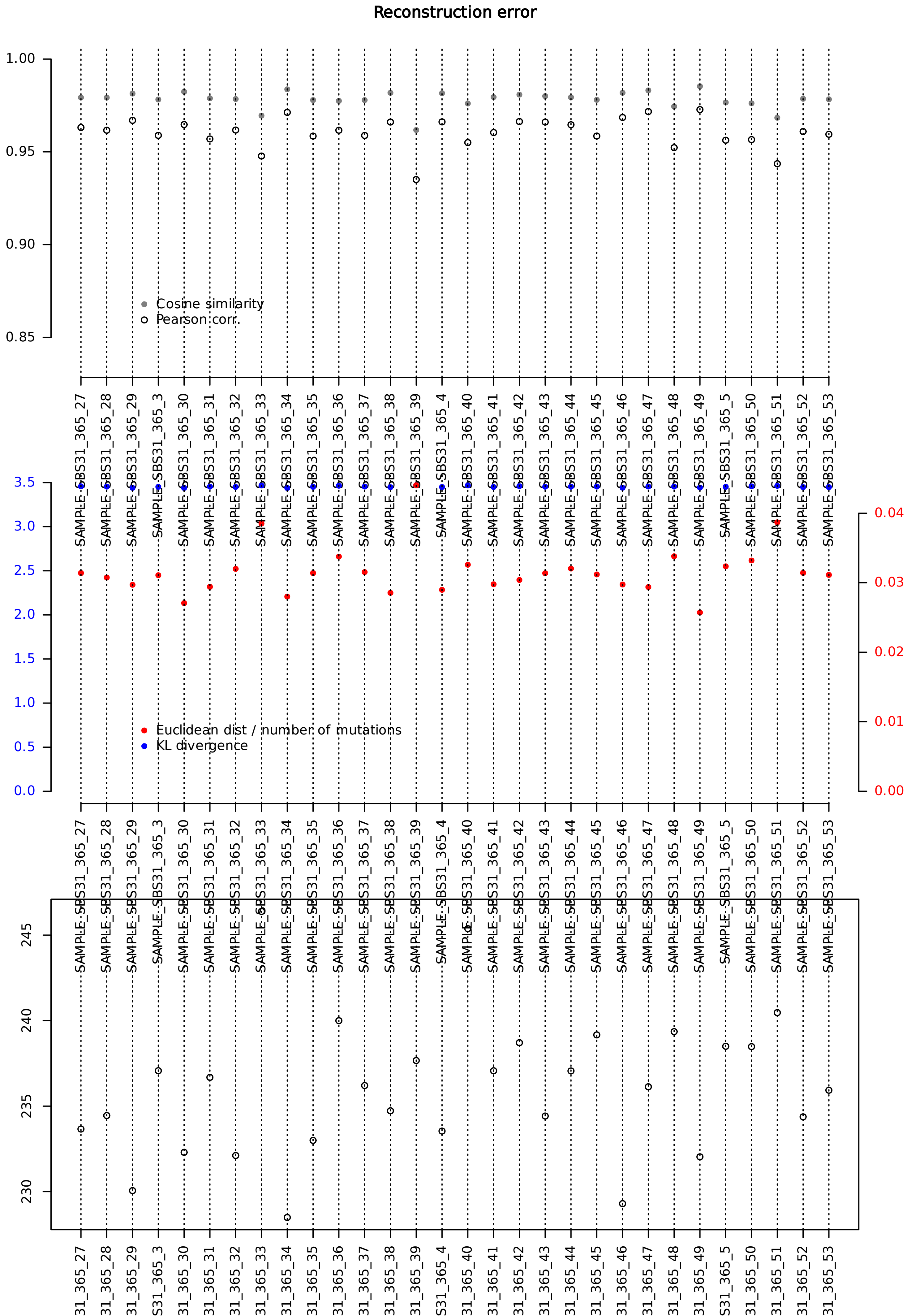
Reconstruction error
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0.95
0.90
0.85
Cosine similarity
Pearson corr.
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3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
245
240
235
230
SAMPLE-SBS31_365_27
SAMPLE-SBS31_365_28
SAMPLE-SBS31_365_29
SAMPLE-SBS31_365_3
SAMPLE-SBS31_365_30
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SAMPLE-SBS31_365_36
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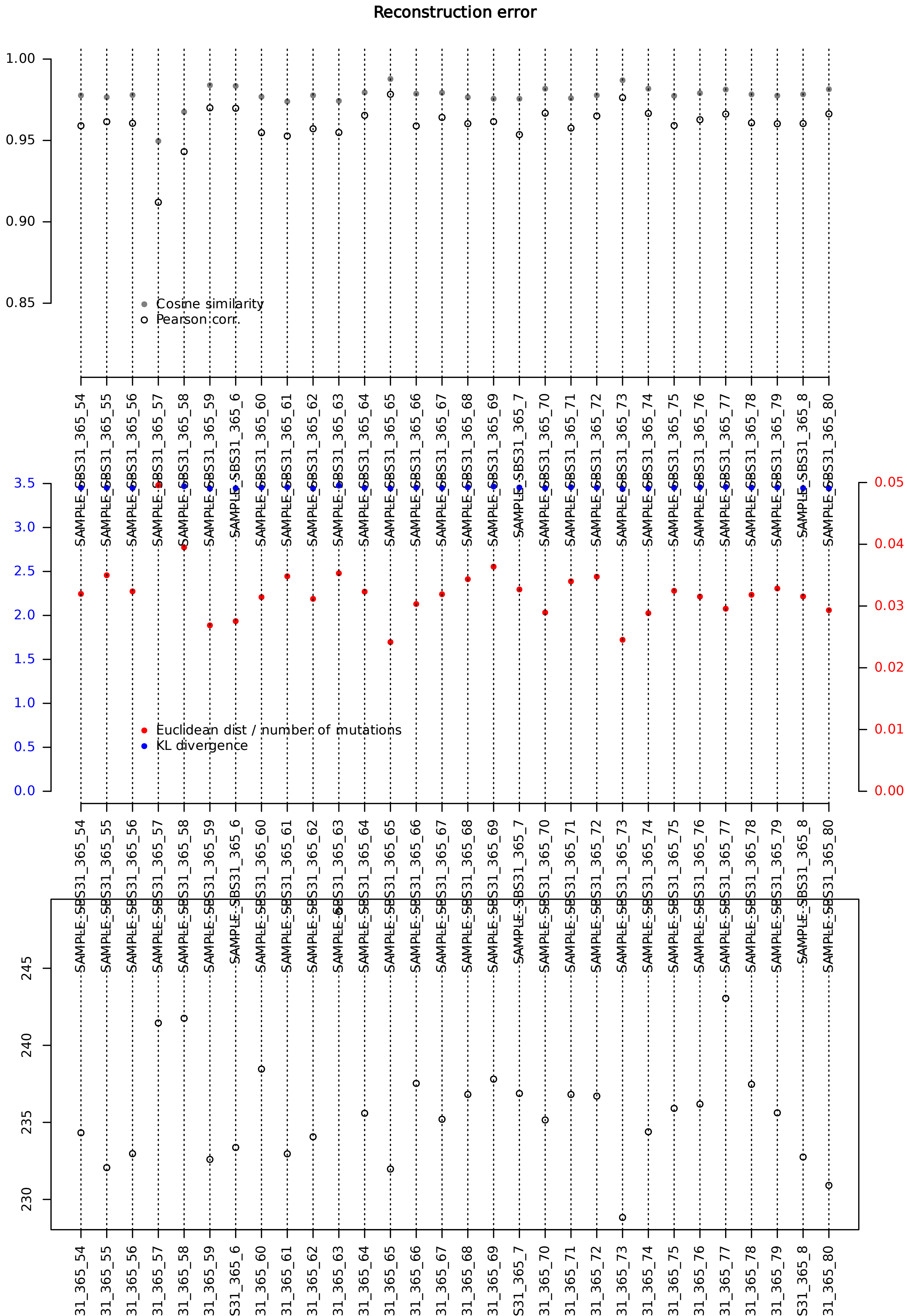
SAMPLE-SBS31_365_52
SAMPLE-SBS31_365_53


Reconstruction error
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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
245
240
235
230
SAMPLE-SBS31_365_54
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SAMPLE-SBS31_365_57
SAMPLE-SBS31_365_58
SAMPLE-SBS31_365_59
SAMPLE-SBS31_365_6
SAMPLE-SBS31_365_60
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SAMPLE-SBS31_365_63
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SAMPLE-SBS31_365_73
SAMPLE-SBS31_365_74
SAMPLE-SBS31_365_75
SAMPLE-SBS31_365_76
SAMPLE-SBS31_365_77
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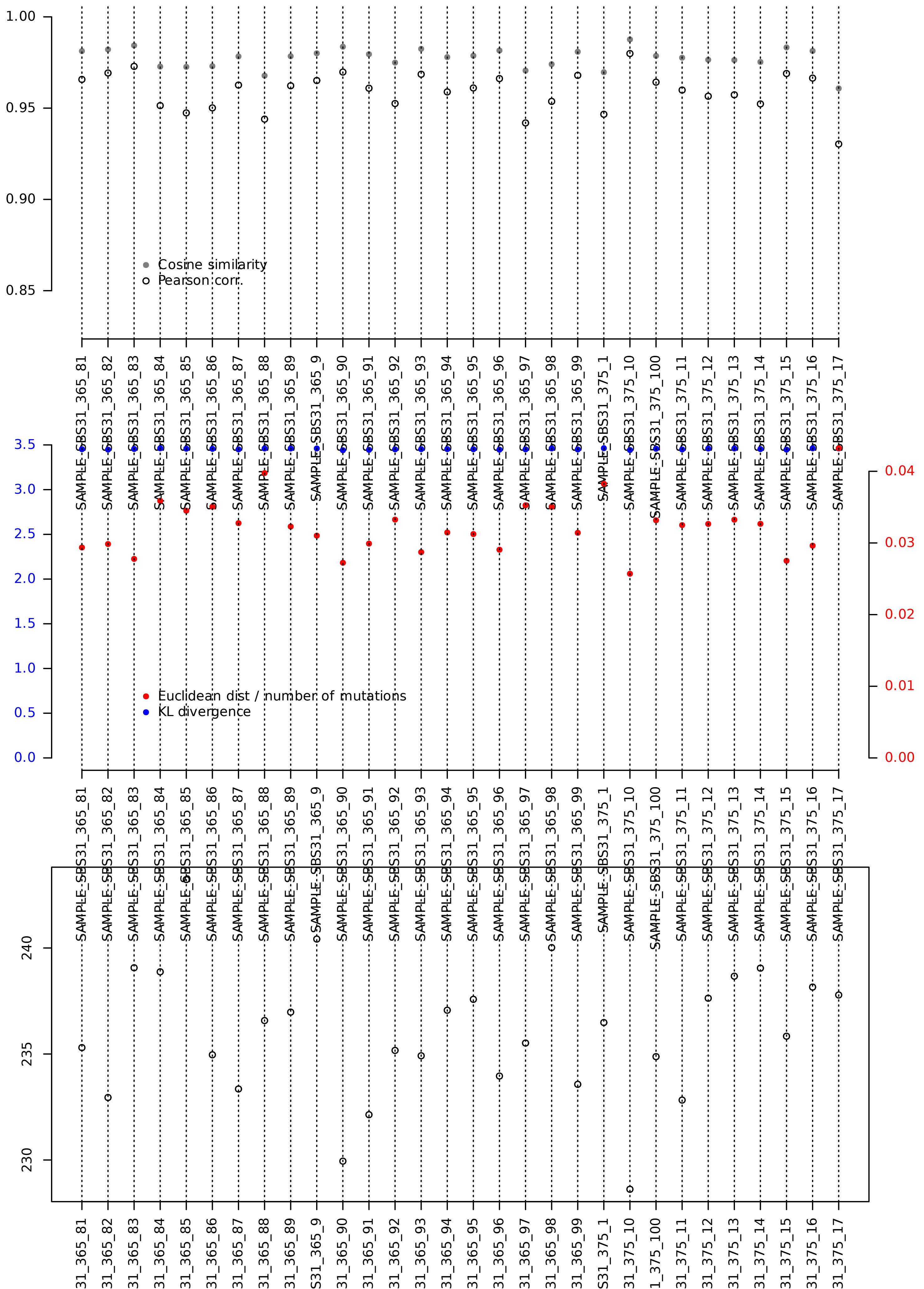
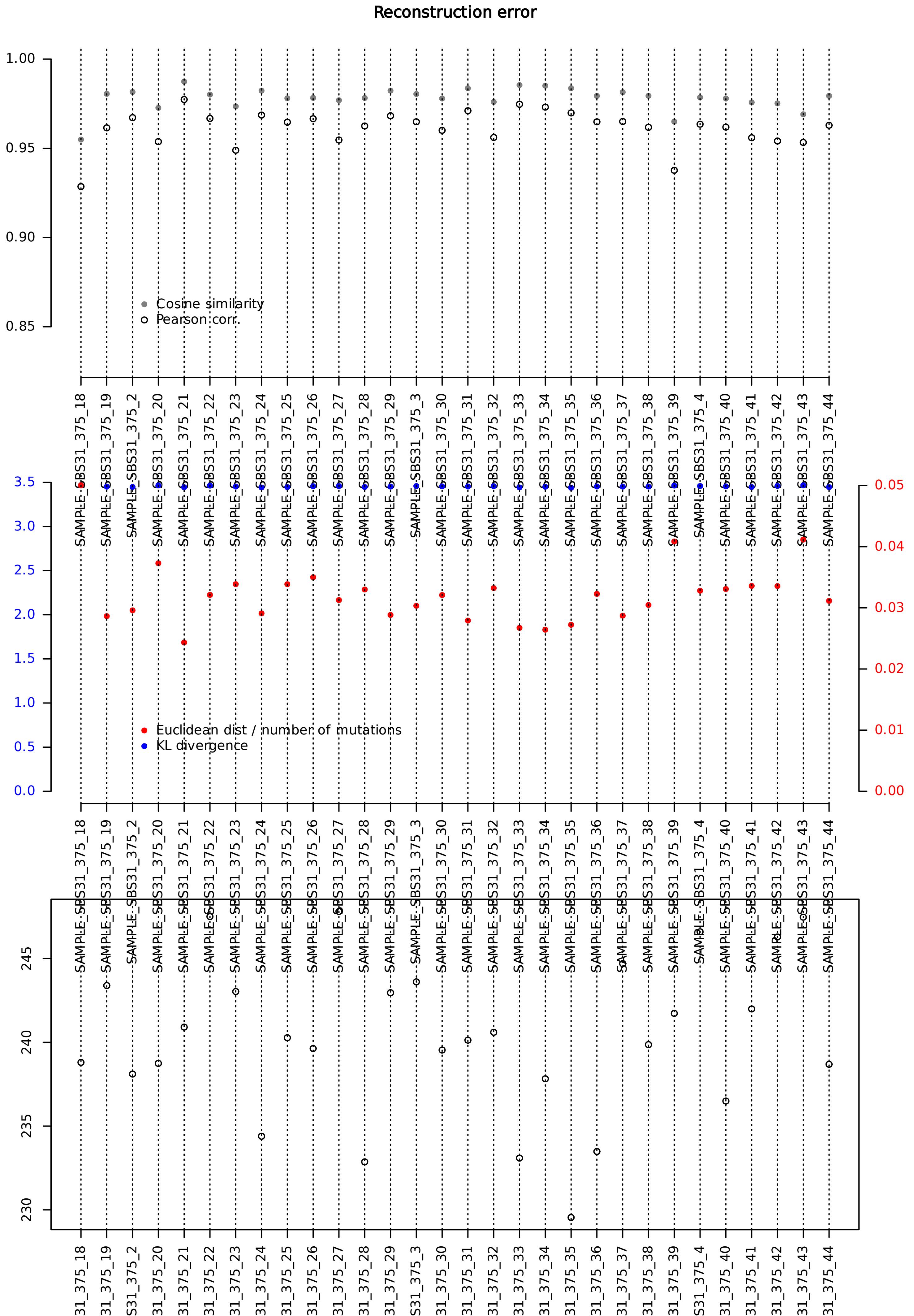
SAMPLE-SBS31_365_8
SAMPLE-SBS31_365_80

Reconstruction error




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
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SAMPLE-SBS31_375_26
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SAMPLE-SBS31_375_33
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SAMPLE-SBS31_375_35
SAMPLE-SBS31_375_36
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SAMPLE-SBS31_375_39
SAMPLE-SBS31_375_4
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SAMPLE-SBS31_375_42
SAMPLE-SBS31_375_43
SAMPLE-SBS31_375_44
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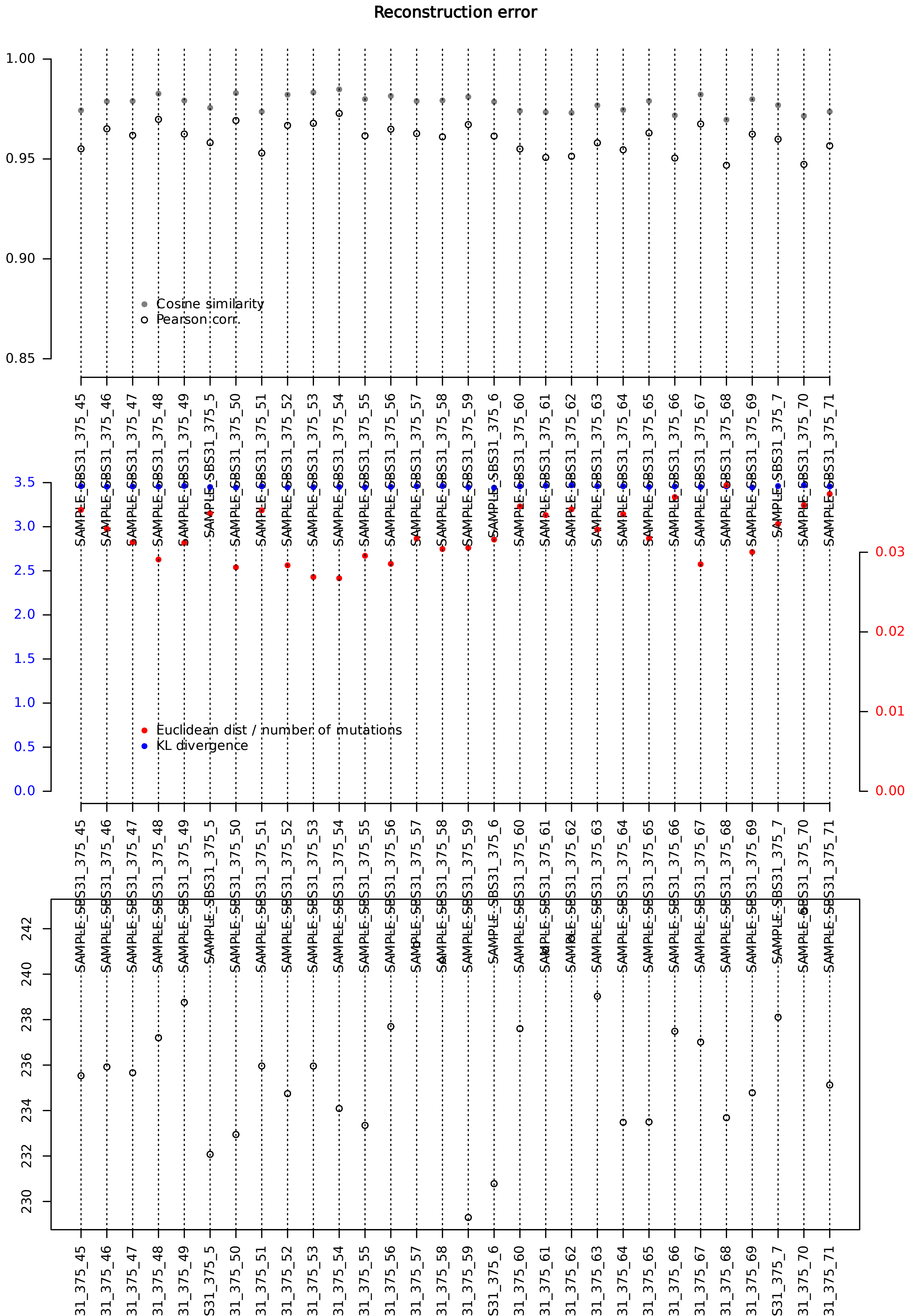
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.05
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
245
240
235
230


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
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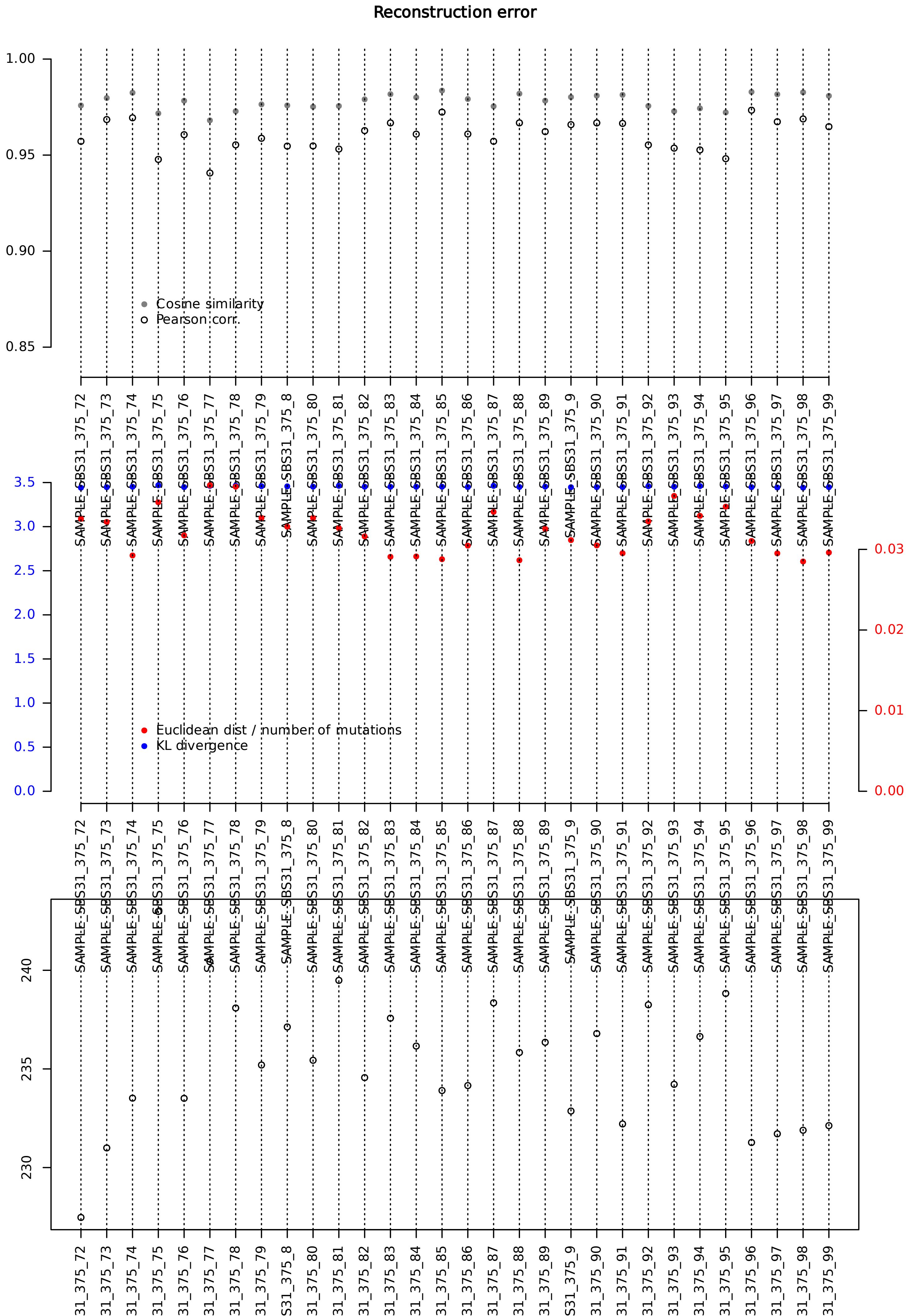
SAMPLE-SBS31_375_69
SAMPLE-SBS31_375_7
SAMPLE-SBS31_375_70
SAMPLE-SBS31_375_71
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
242
240
238
236
234
232
230


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
SAMPLE-SBS31_375_72
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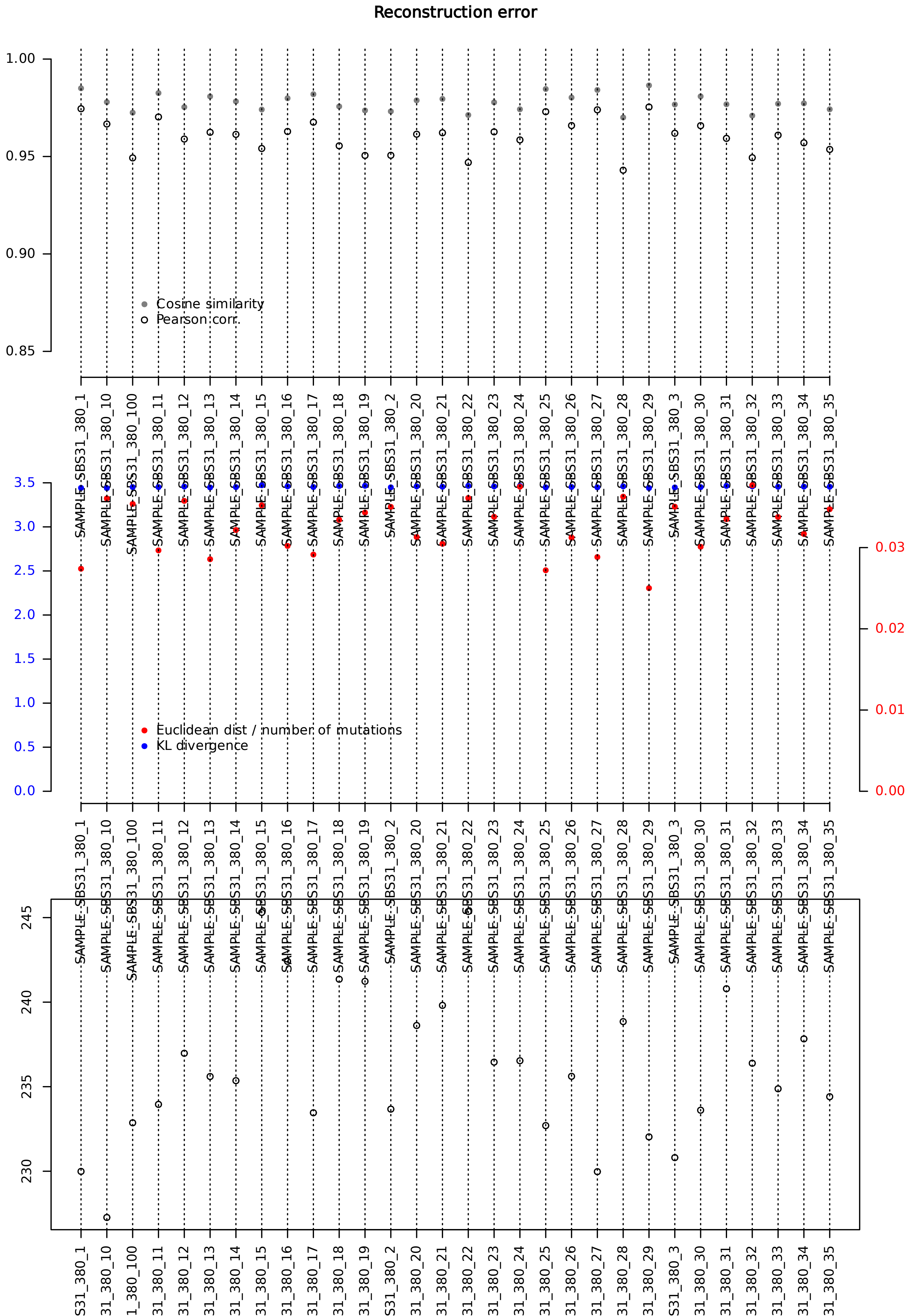
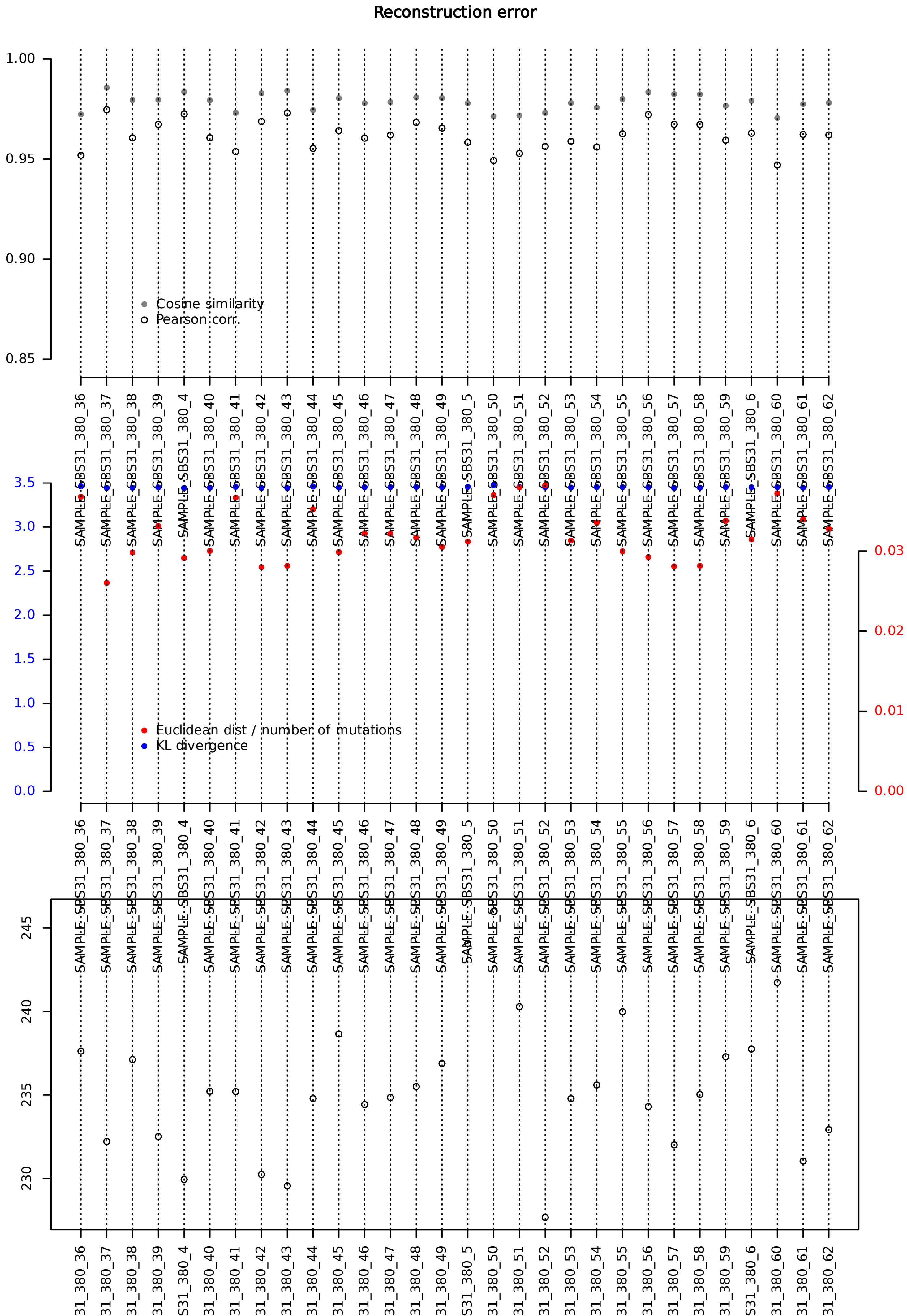
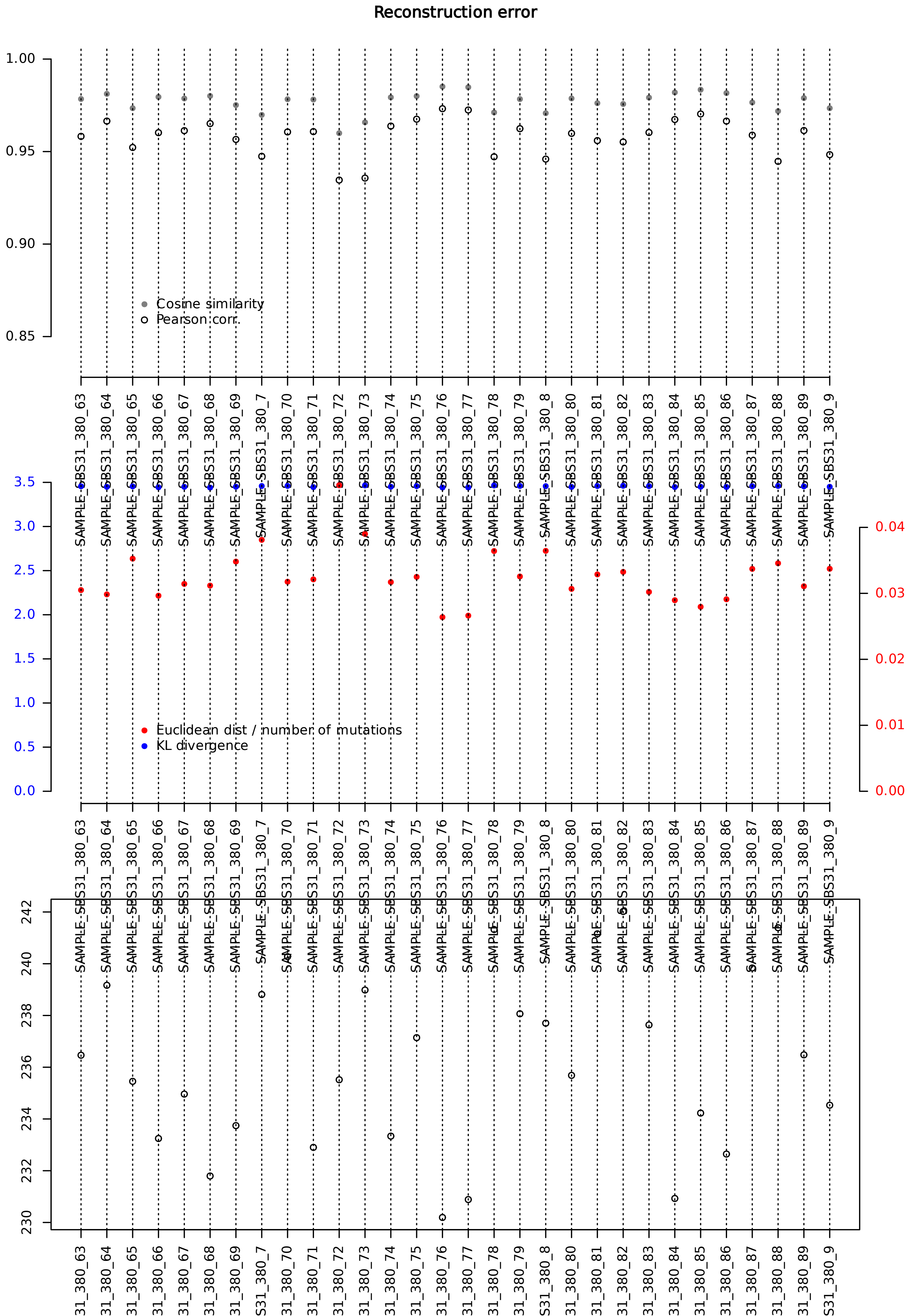
SAMPLE-SBS31_375_9
SAMPLE-SBS31_375_90
SAMPLE-SBS31_375_91
SAMPLE-SBS31_375_92
SAMPLE-SBS31_375_93
SAMPLE-SBS31_375_94
SAMPLE-SBS31_375_95
SAMPLE-SBS31_375_96
SAMPLE-SBS31_375_97
SAMPLE-SBS31_375_98
SAMPLE-SBS31_375_99
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
240
235
230





Reconstruction error


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
SAMPLE-SBS31_380_73
SAMPLE-SBS31_380_74
SAMPLE-SBS31_380_75
SAMPLE-SBS31_380_76
SAMPLE-SBS31_380_77
SAMPLE-SBS31_380_78
SAMPLE-SBS31_380_79
SAMPLE-SBS31_380_8
SAMPLE-SBS31_380_80
SAMPLE-SBS31_380_81
SAMPLE-SBS31_380_82
SAMPLE-SBS31_380_83
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
242
240
238
236
234
232
230
31_380_63
31_380_64
31_380_65
31_380_66
31_380_67
31_380_68
31_380_69
S31_380_7
31_380_70
31_380_71
31_380_72
31_380_73
31_380_74
31_380_75
31_380_76
31_380_77
31_380_78
31_380_79
S31_380_8
31_380_80
31_380_81
31_380_82
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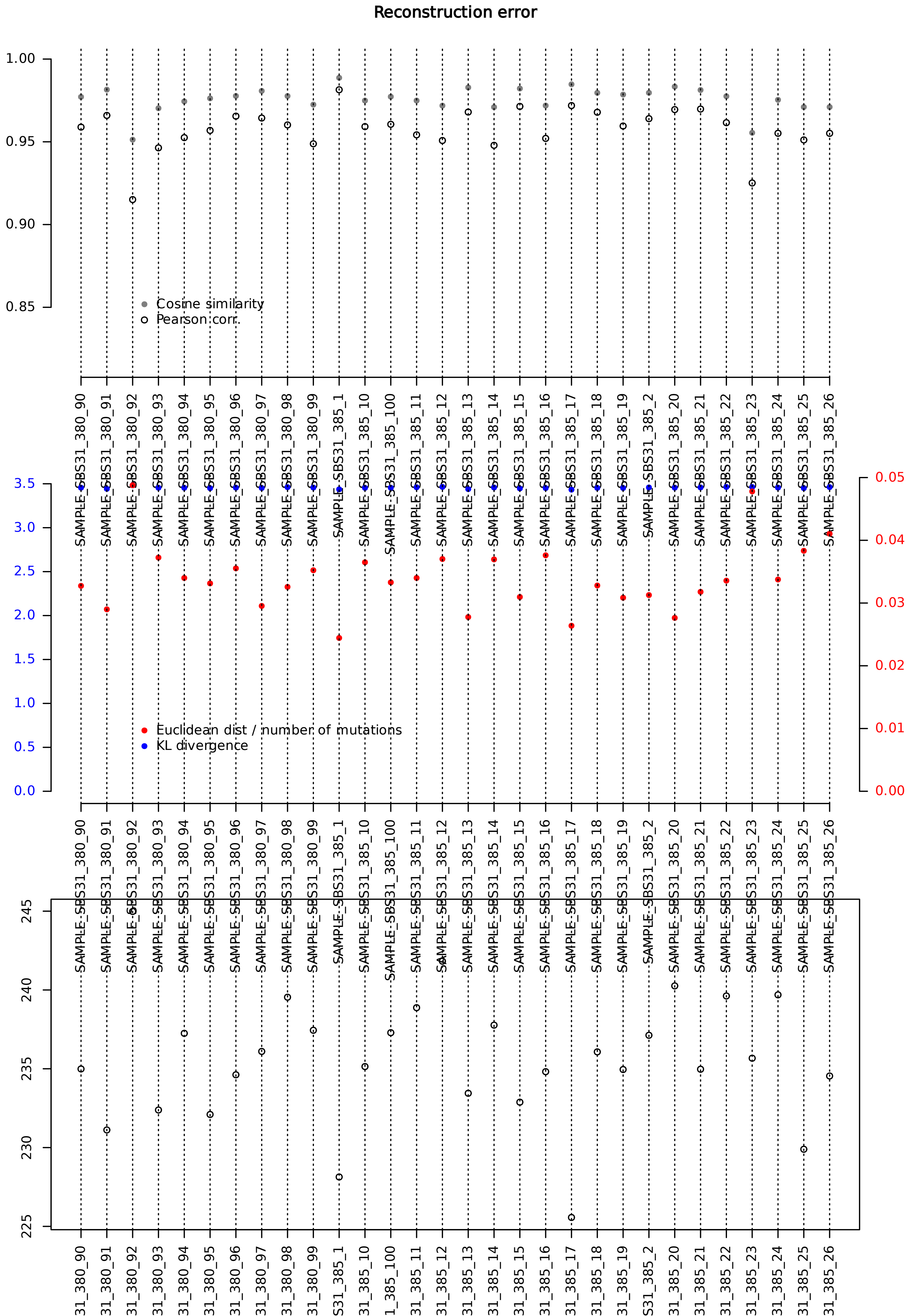
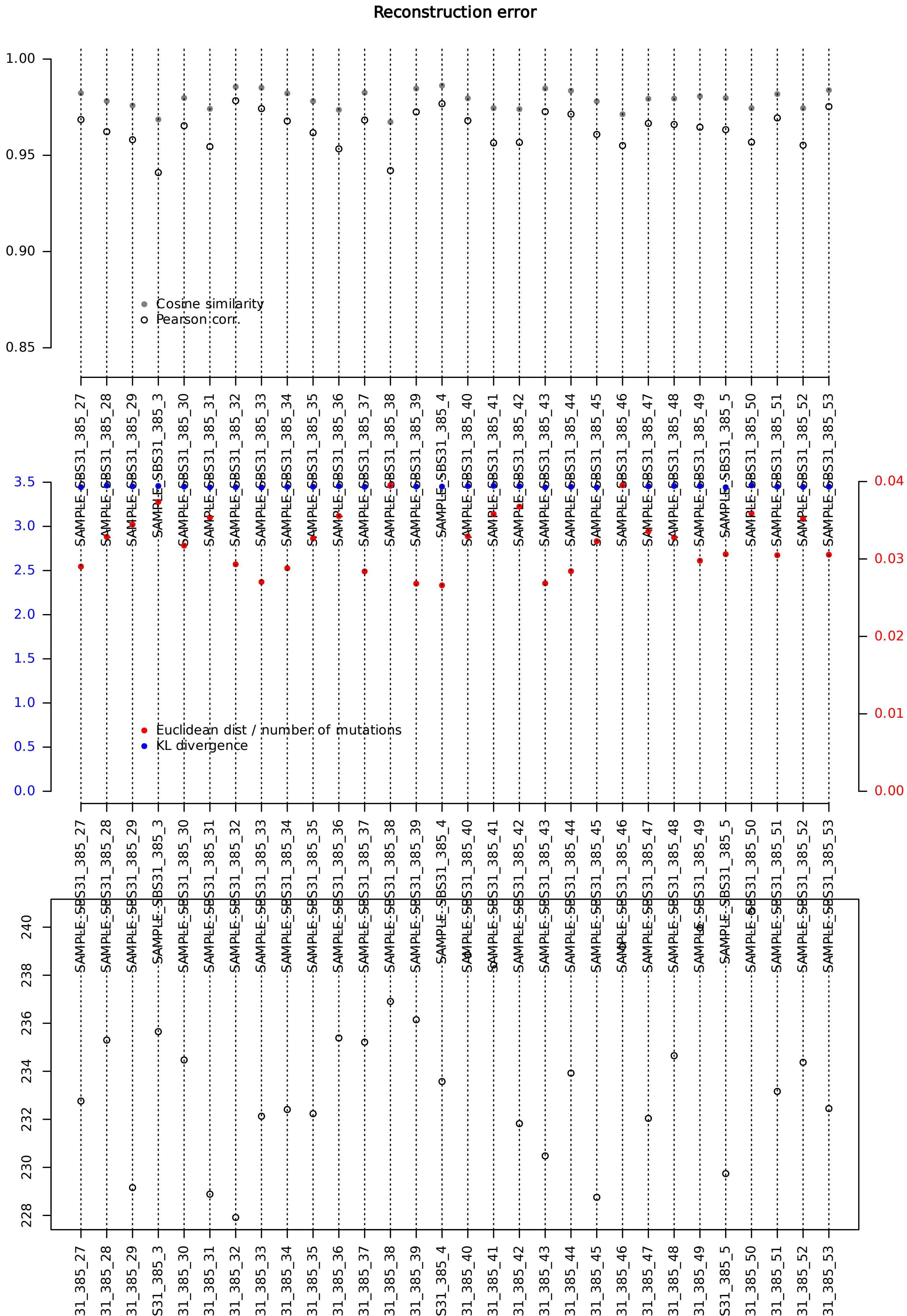
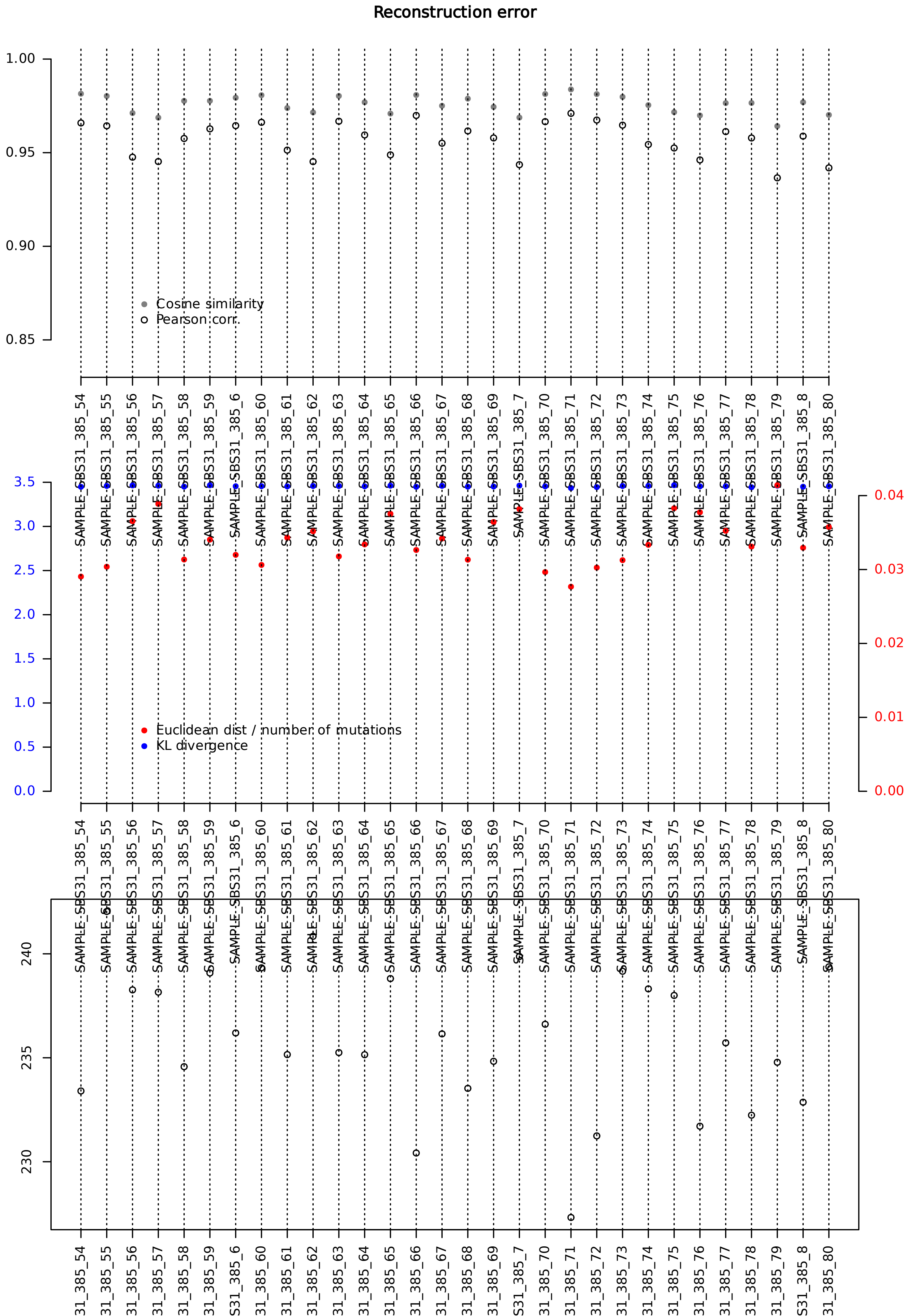
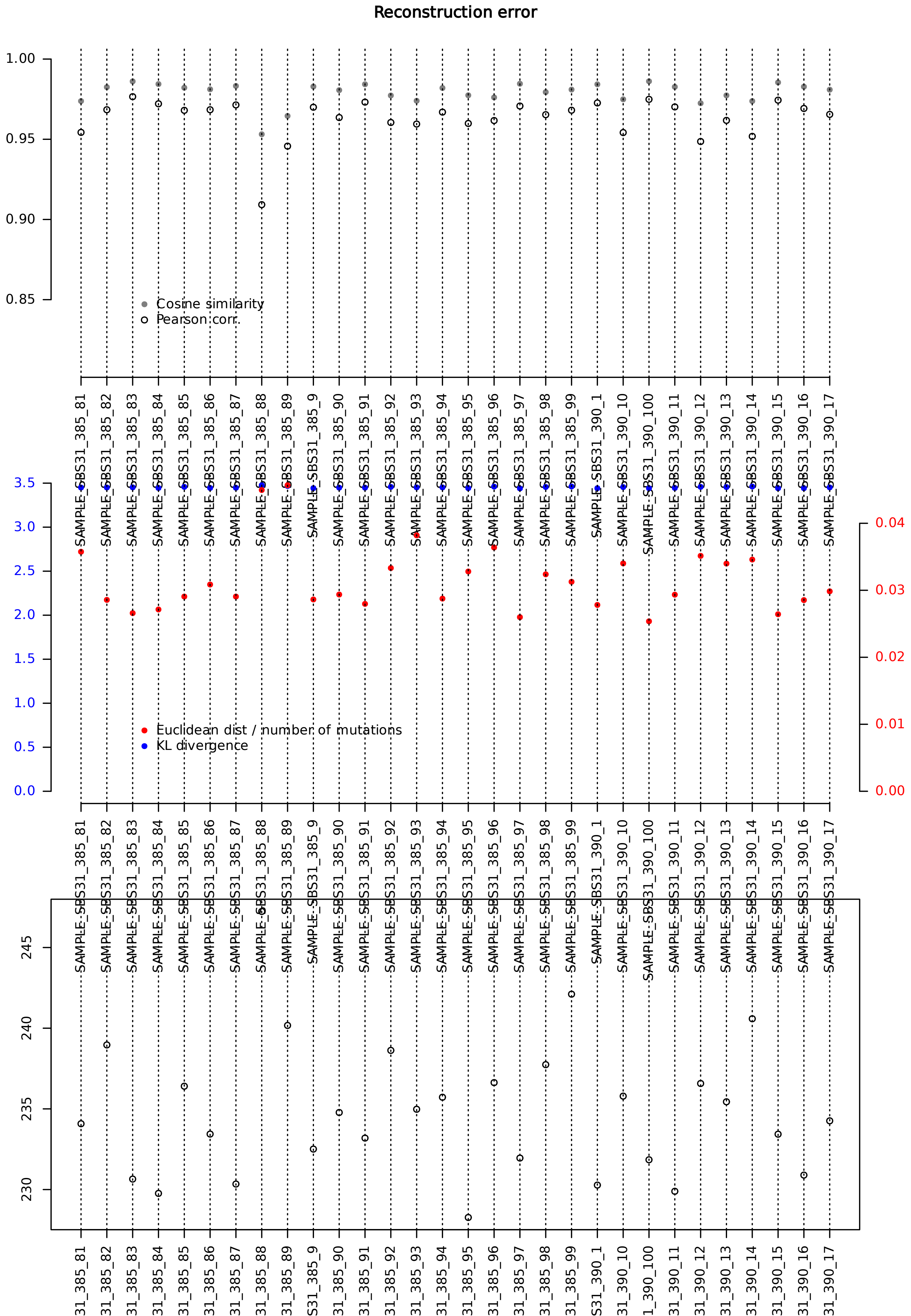
S31_380_9

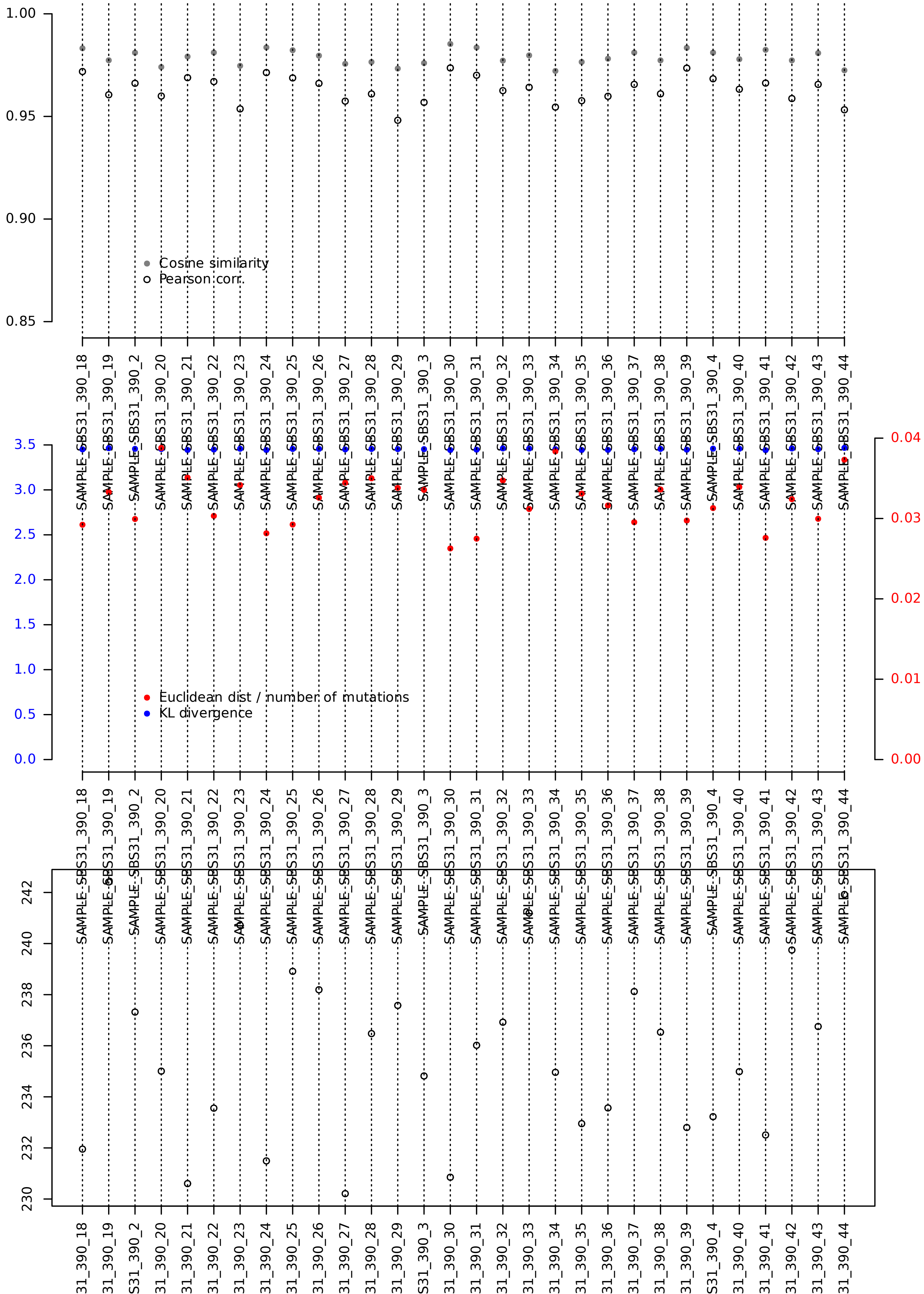


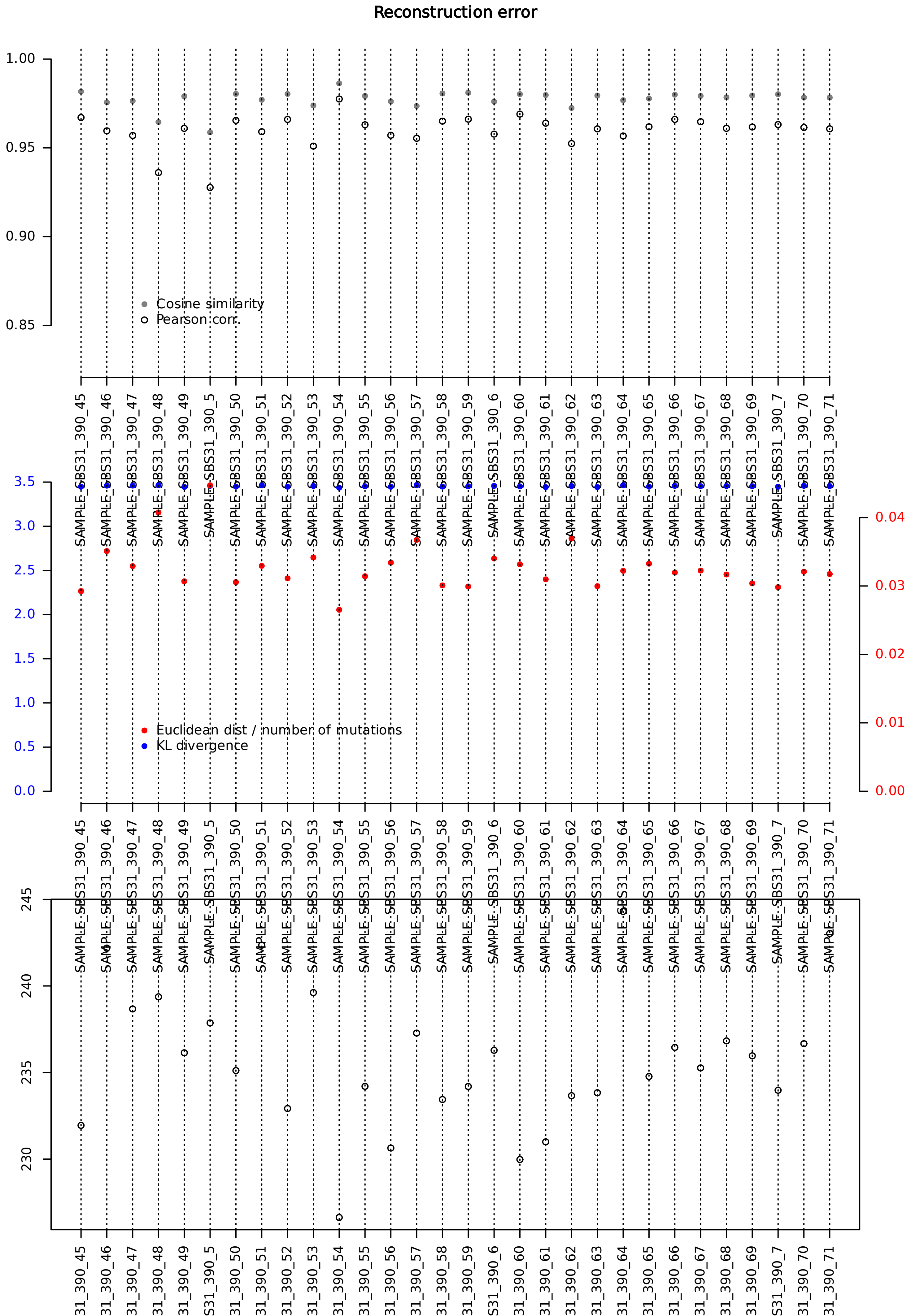
Reconstruction error

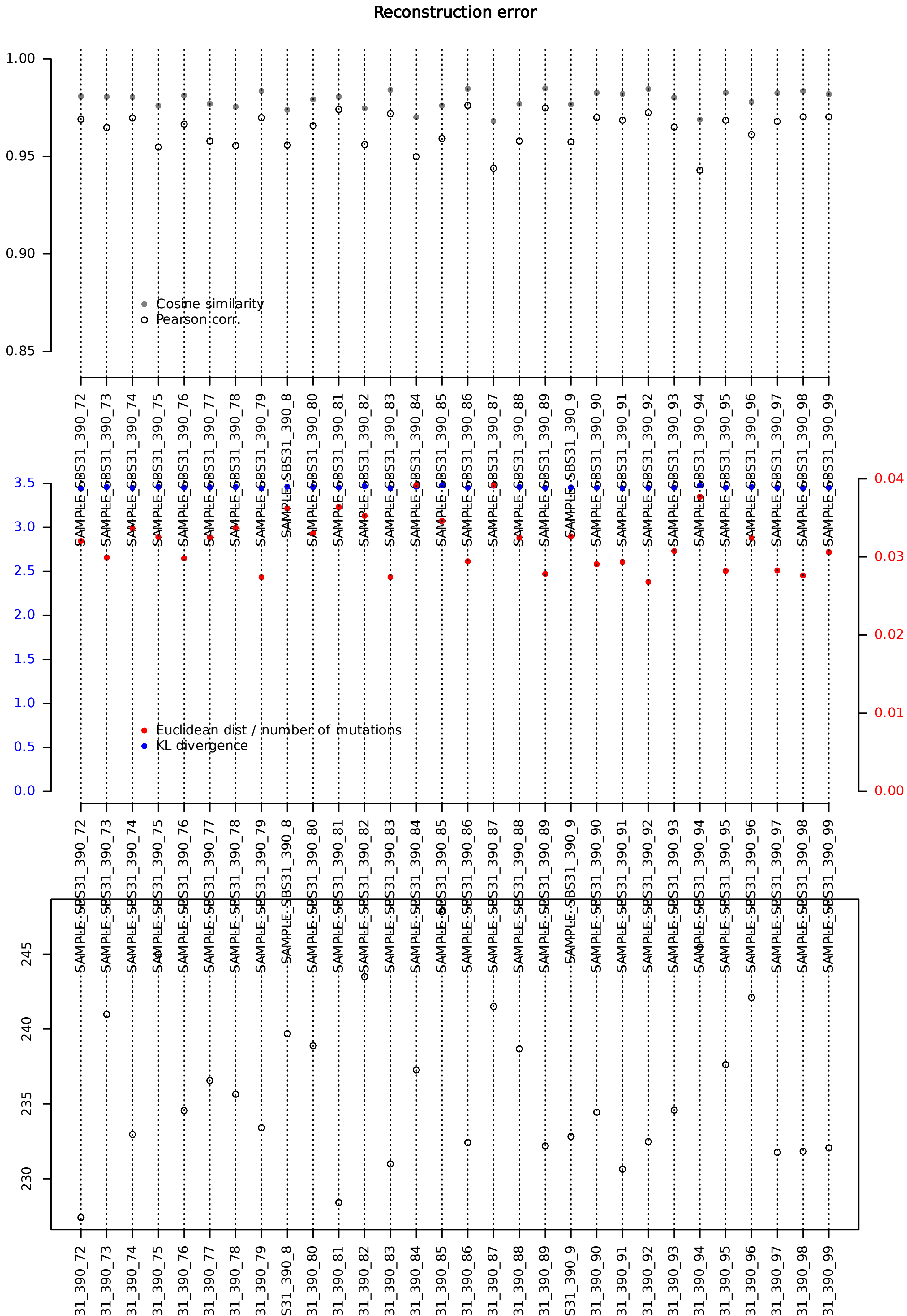

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
240
238
236
234
232
230
228
SAMPLE-SBS31_385_27
SAMPLE-SBS31_385_28
SAMPLE-SBS31_385_29
SAMPLE-SBS31_385_3
SAMPLE-SBS31_385_30
SAMPLE-SBS31_385_31
SAMPLE-SBS31_385_32
SAMPLE-SBS31_385_33
SAMPLE-SBS31_385_34
SAMPLE-SBS31_385_35
SAMPLE-SBS31_385_36
SAMPLE-SBS31_385_37
SAMPLE-SBS31_385_38
SAMPLE-SBS31_385_39
SAMPLE-SBS31_385_4
SAMPLE-SBS31_385_40
SAMPLE-SBS31_385_41
SAMPLE-SBS31_385_42
SAMPLE-SBS31_385_43
SAMPLE-SBS31_385_44
SAMPLE-SBS31_385_45
SAMPLE-SBS31_385_46
SAMPLE-SBS31_385_47
SAMPLE-SBS31_385_48
SAMPLE-SBS31_385_49
SAMPLE-SBS31_385_5
SAMPLE-SBS31_385_50
SAMPLE-SBS31_385_51
SAMPLE-SBS31_385_52
SAMPLE-SBS31_385_53

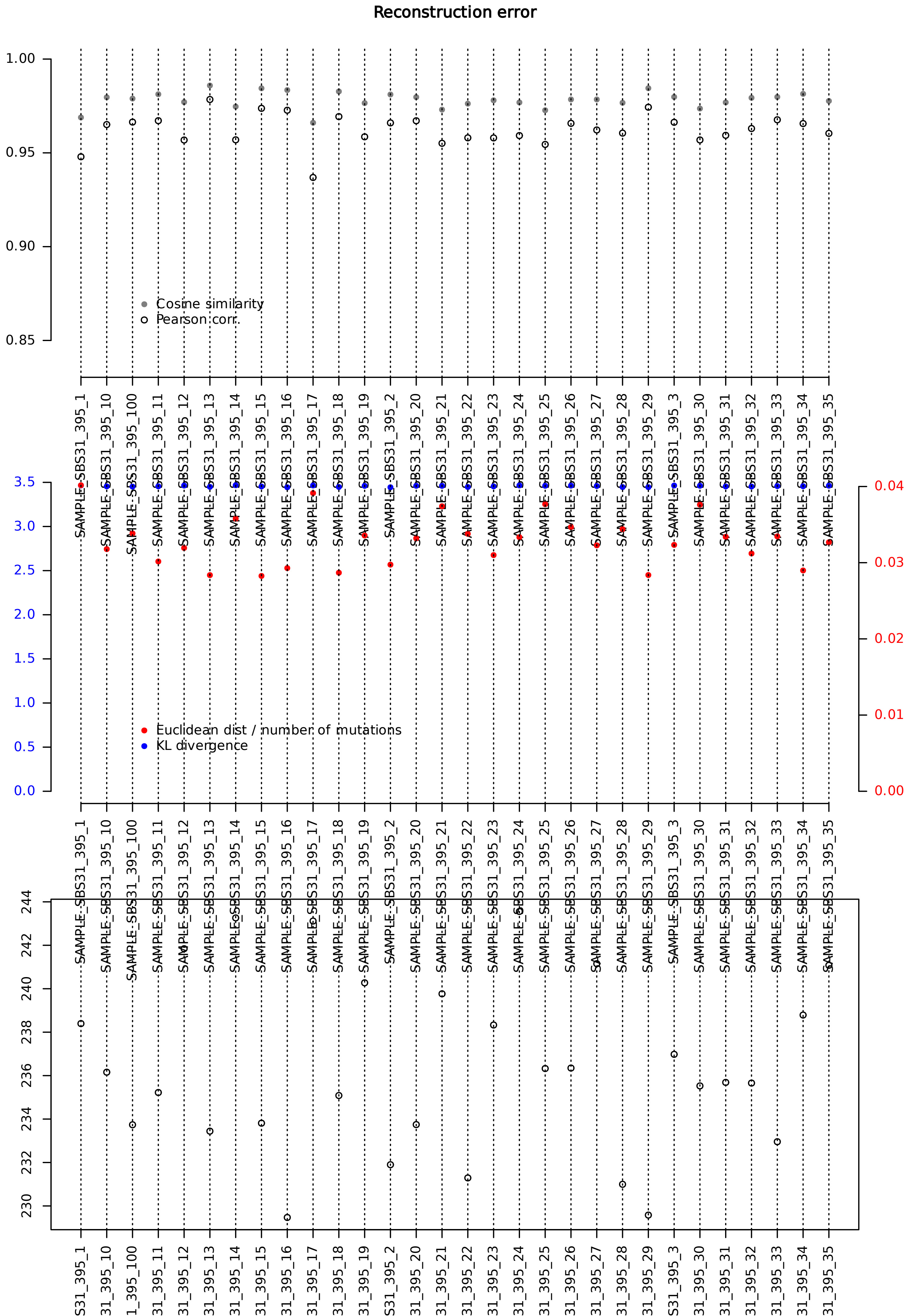

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
240
235
230
SAMPLE-SBS31_385_54
SAMPLE-SBS31_385_55
SAMPLE-SBS31_385_56
SAMPLE-SBS31_385_57
SAMPLE-SBS31_385_58
SAMPLE-SBS31_385_59
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

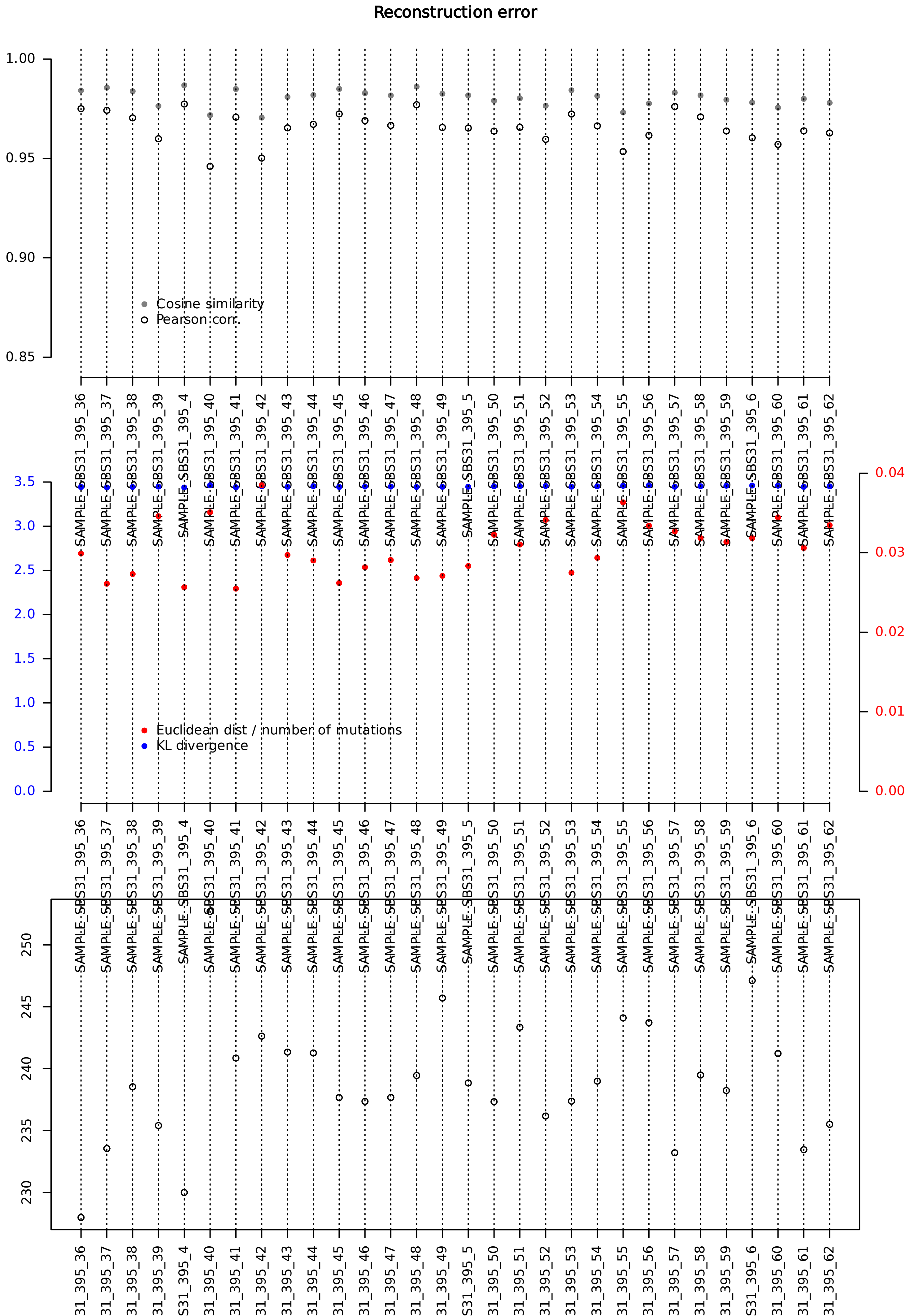

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
245
240
235
230
SAMPLE-SBS31_385_81
SAMPLE-SBS31_385_82
SAMPLE-SBS31_385_83
SAMPLE-SBS31_385_84
SAMPLE-SBS31_385_85
SAMPLE-SBS31_385_86
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
SAMPLE-SBS31_390_13
SAMPLE-SBS31_390_14
SAMPLE-SBS31_390_15
SAMPLE-SBS31_390_16
SAMPLE-SBS31_390_17


Reconstruction error

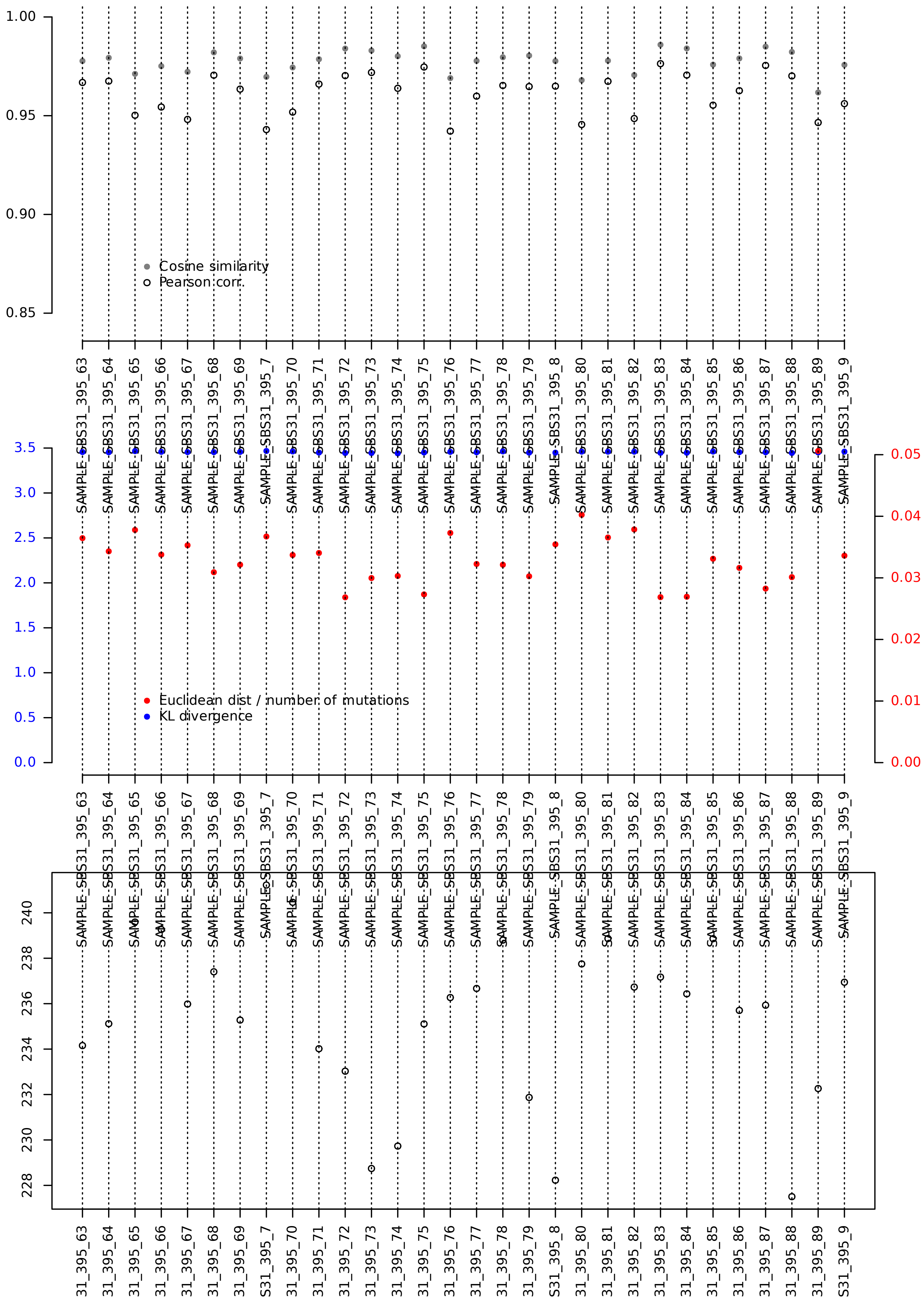

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
SAMPLE-SBS31_390_45
SAMPLE-SBS31_390_46
SAMPLE-SBS31_390_47
SAMPLE-SBS31_390_48
SAMPLE-SBS31_390_49
SAMPLE-SBS31_390_5
SAMPLE-SBS31_390_50
SAMPLE-SBS31_390_51
SAMPLE-SBS31_390_52
SAMPLE-SBS31_390_53
SAMPLE-SBS31_390_54
SAMPLE-SBS31_390_55
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
SAMPLE-SBS31_390_64
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
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

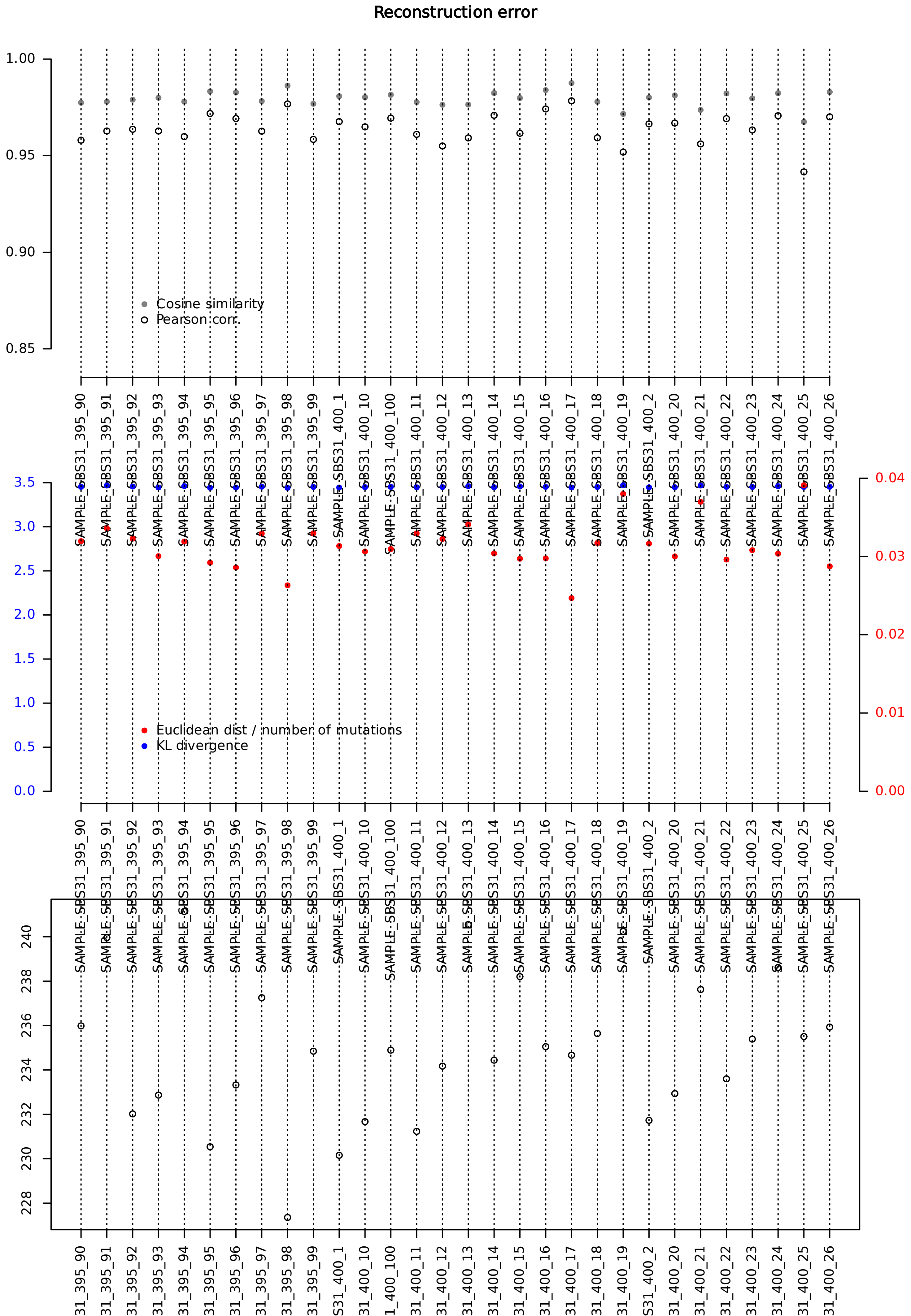

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
245
240
235
230
SAMPLE-SBS31_390_72
SAMPLE-SBS31_390_73
SAMPLE-SBS31_390_74
SAMPLE-SBS31_390_75
SAMPLE-SBS31_390_76
SAMPLE-SBS31_390_77
SAMPLE-SBS31_390_78
SAMPLE-SBS31_390_79
SAMPLE-SBS31_390_8
SAMPLE-SBS31_390_80
SAMPLE-SBS31_390_81
SAMPLE-SBS31_390_82
SAMPLE-SBS31_390_83
SAMPLE-SBS31_390_84
SAMPLE-SBS31_390_85
SAMPLE-SBS31_390_86
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


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
244
242
240
238
236
234
232
230
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


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
250
245
240
235
230
SAMPLE-SBS31_395_36
SAMPLE-SBS31_395_37
SAMPLE-SBS31_395_38
SAMPLE-SBS31_395_39
SAMPLE-SBS31_395_4
SAMPLE-SBS31_395_40
SAMPLE-SBS31_395_41
SAMPLE-SBS31_395_42
SAMPLE-SBS31_395_43
SAMPLE-SBS31_395_44
SAMPLE-SBS31_395_45
SAMPLE-SBS31_395_46
SAMPLE-SBS31_395_47
SAMPLE-SBS31_395_48
SAMPLE-SBS31_395_49
SAMPLE-SBS31_395_5
SAMPLE-SBS31_395_50
SAMPLE-SBS31_395_51
SAMPLE-SBS31_395_52
SAMPLE-SBS31_395_53
SAMPLE-SBS31_395_54
SAMPLE-SBS31_395_55
SAMPLE-SBS31_395_56
SAMPLE-SBS31_395_57
SAMPLE-SBS31_395_58
SAMPLE-SBS31_395_59
SAMPLE-SBS31_395_6
SAMPLE-SBS31_395_60
SAMPLE-SBS31_395_61
SAMPLE-SBS31_395_62

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
240
238
236
234
232
230
228
SAMPLE-SBS31_395_90
SAMPLE-SBS31_395_91
SAMPLE-SBS31_395_92
SAMPLE-SBS31_395_93
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
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SAMPLE-SBS31_400_14
SAMPLE-SBS31_400_15
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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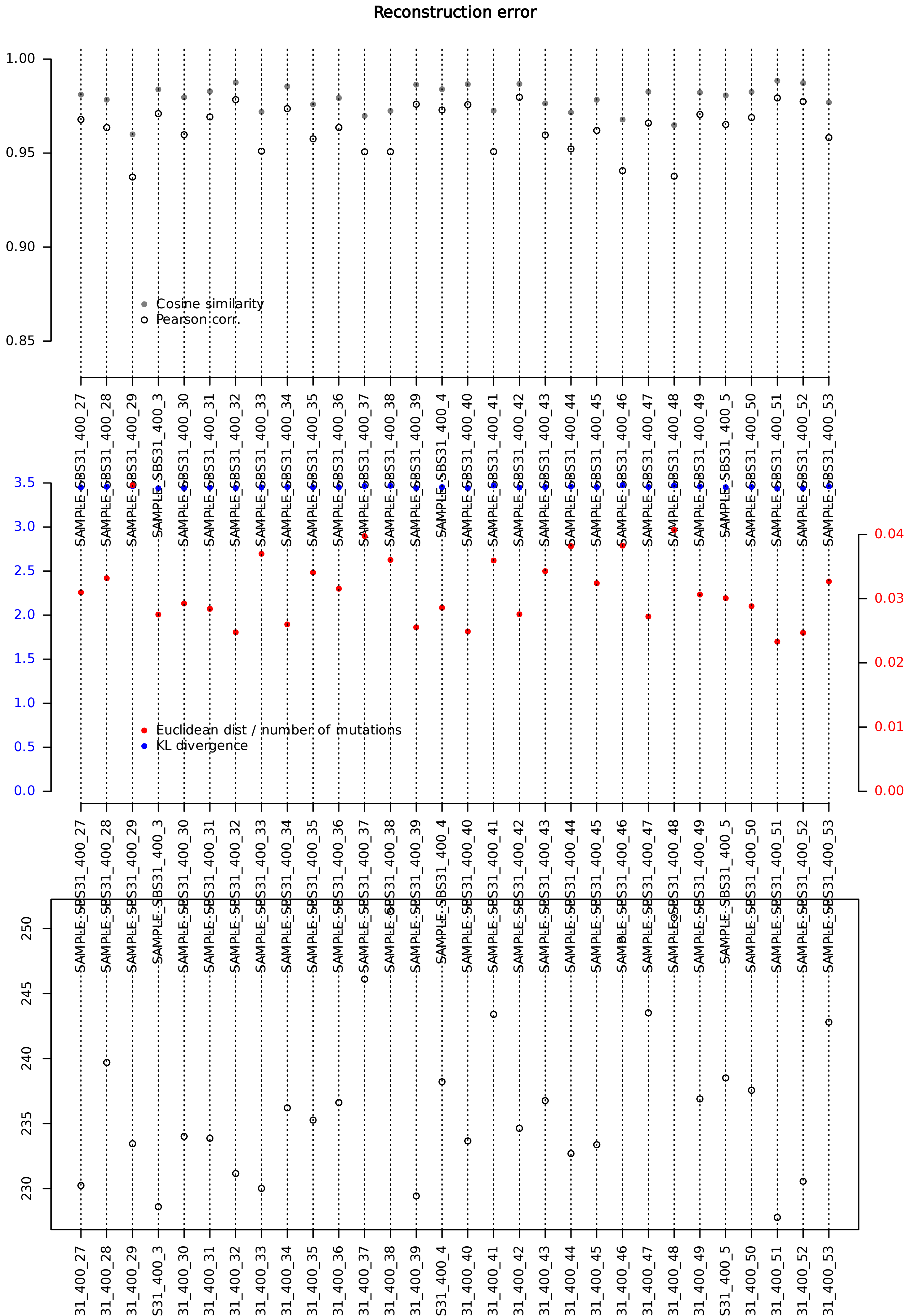
SAMPLE-SBS31_400_23
SAMPLE-SBS31_400_24
SAMPLE-SBS31_400_25
SAMPLE-SBS31_400_26


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
250
245
240
235
230
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
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SAMPLE-SBS31_400_48
SAMPLE-SBS31_400_49
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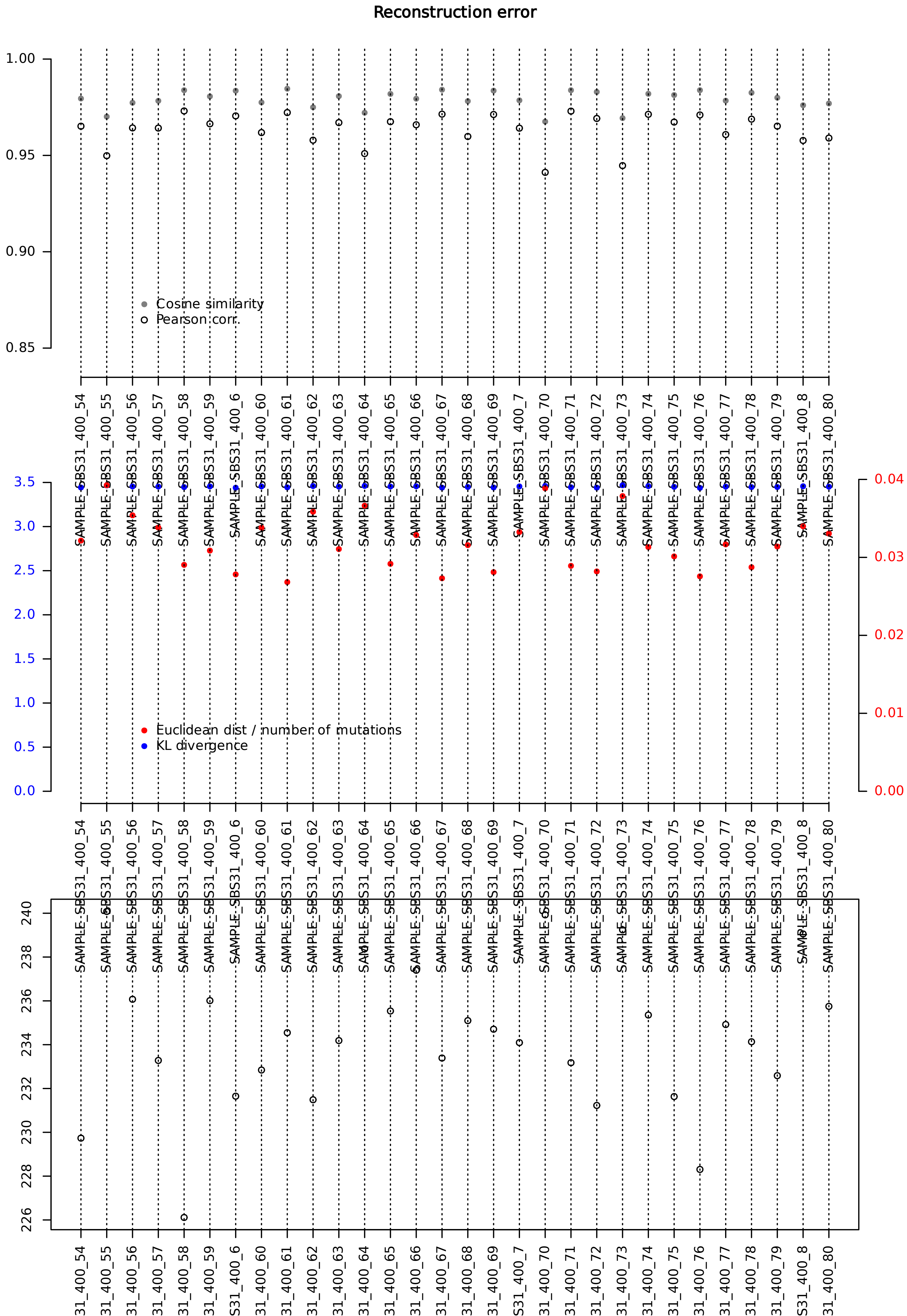
SAMPLE-SBS31_400_50
SAMPLE-SBS31_400_51
SAMPLE-SBS31_400_52
SAMPLE-SBS31_400_53


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
SAMPLE_SBS31_400_54
SAMPLE_SBS31_400_55
SAMPLE_SBS31_400_56
SAMPLE_SBS31_400_57
SAMPLE_SBS31_400_58
SAMPLE_SBS31_400_59
SAMPLE_SBS31_400_6
SAMPLE_SBS31_400_60
SAMPLE_SBS31_400_61
SAMPLE_SBS31_400_62
SAMPLE_SBS31_400_63
SAMPLE_SBS31_400_64
SAMPLE_SBS31_400_65
SAMPLE_SBS31_400_66
SAMPLE_SBS31_400_67
SAMPLE_SBS31_400_68
SAMPLE_SBS31_400_69
SAMPLE_SBS31_400_7
SAMPLE_SBS31_400_70
SAMPLE_SBS31_400_71
SAMPLE_SBS31_400_72
SAMPLE_SBS31_400_73
SAMPLE_SBS31_400_74
SAMPLE_SBS31_400_75
SAMPLE_SBS31_400_76
SAMPLE_SBS31_400_77
SAMPLE_SBS31_400_78
SAMPLE_SBS31_400_79
SAMPLE_SBS31_400_8
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
240
238
236
234
232
230
228
226
31_400_54
31_400_55
31_400_56
31_400_57
31_400_58
31_400_59
S31_400_6
31_400_60
31_400_61
31_400_62
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31_400_64
31_400_65
31_400_66
31_400_67
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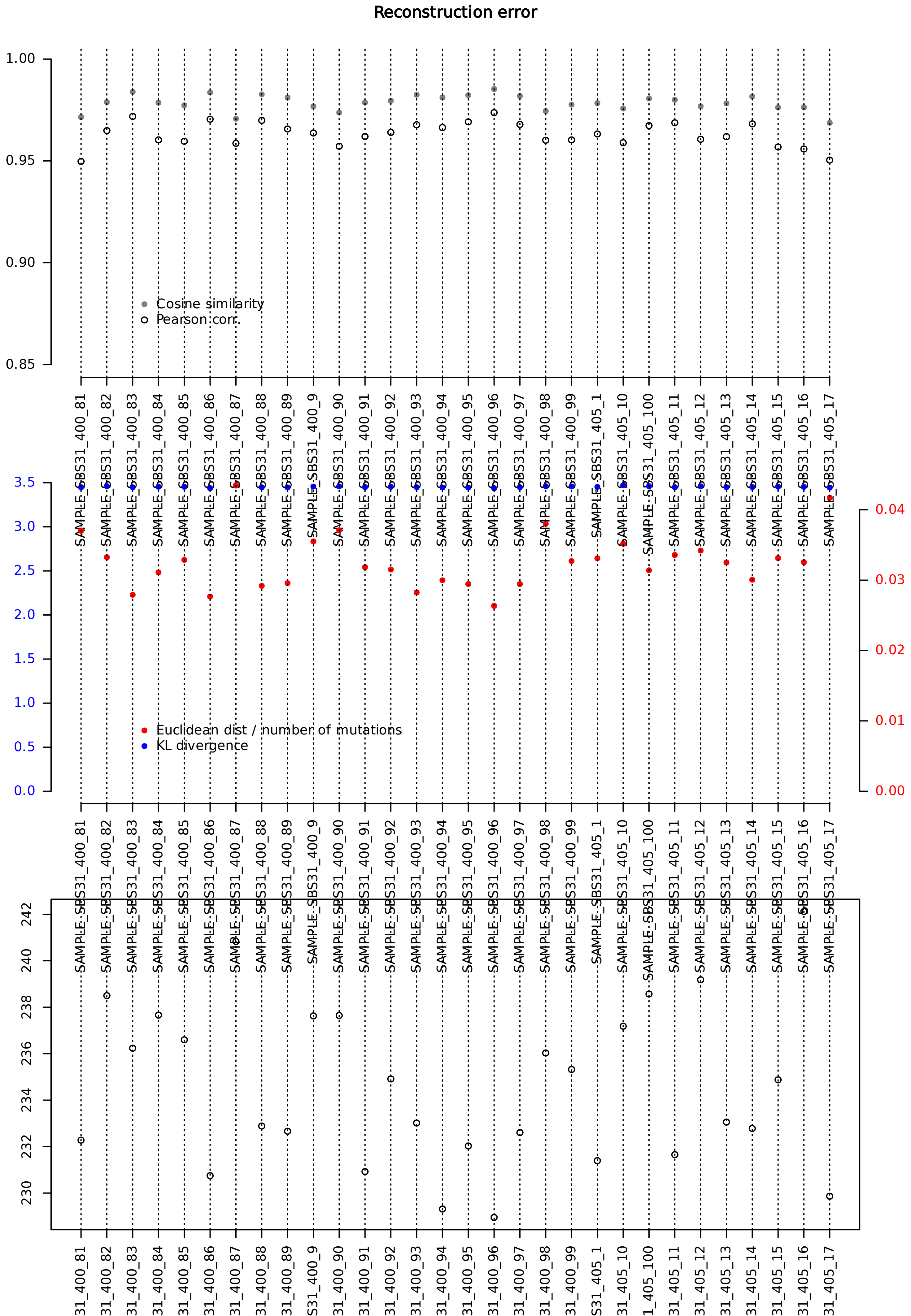
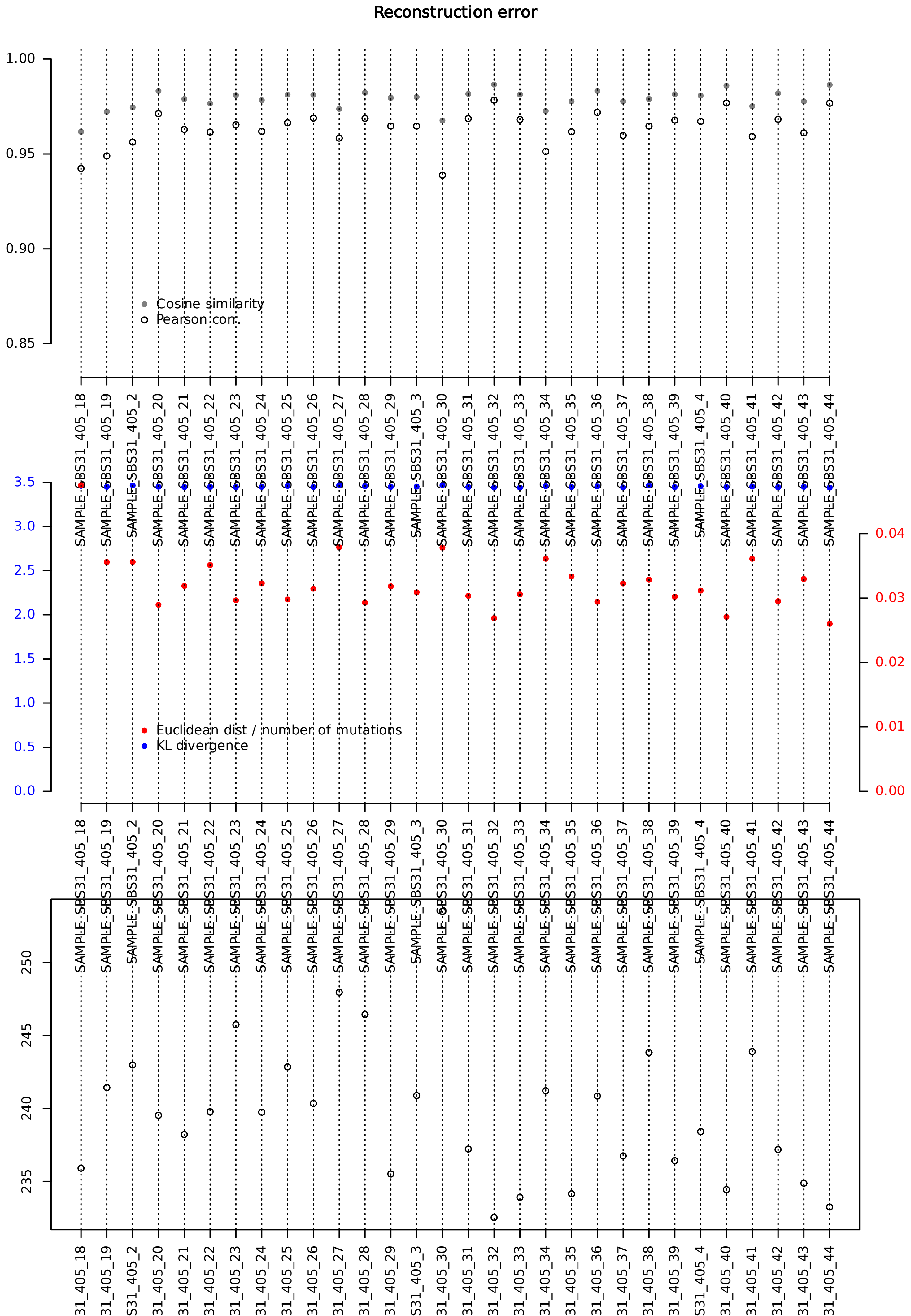
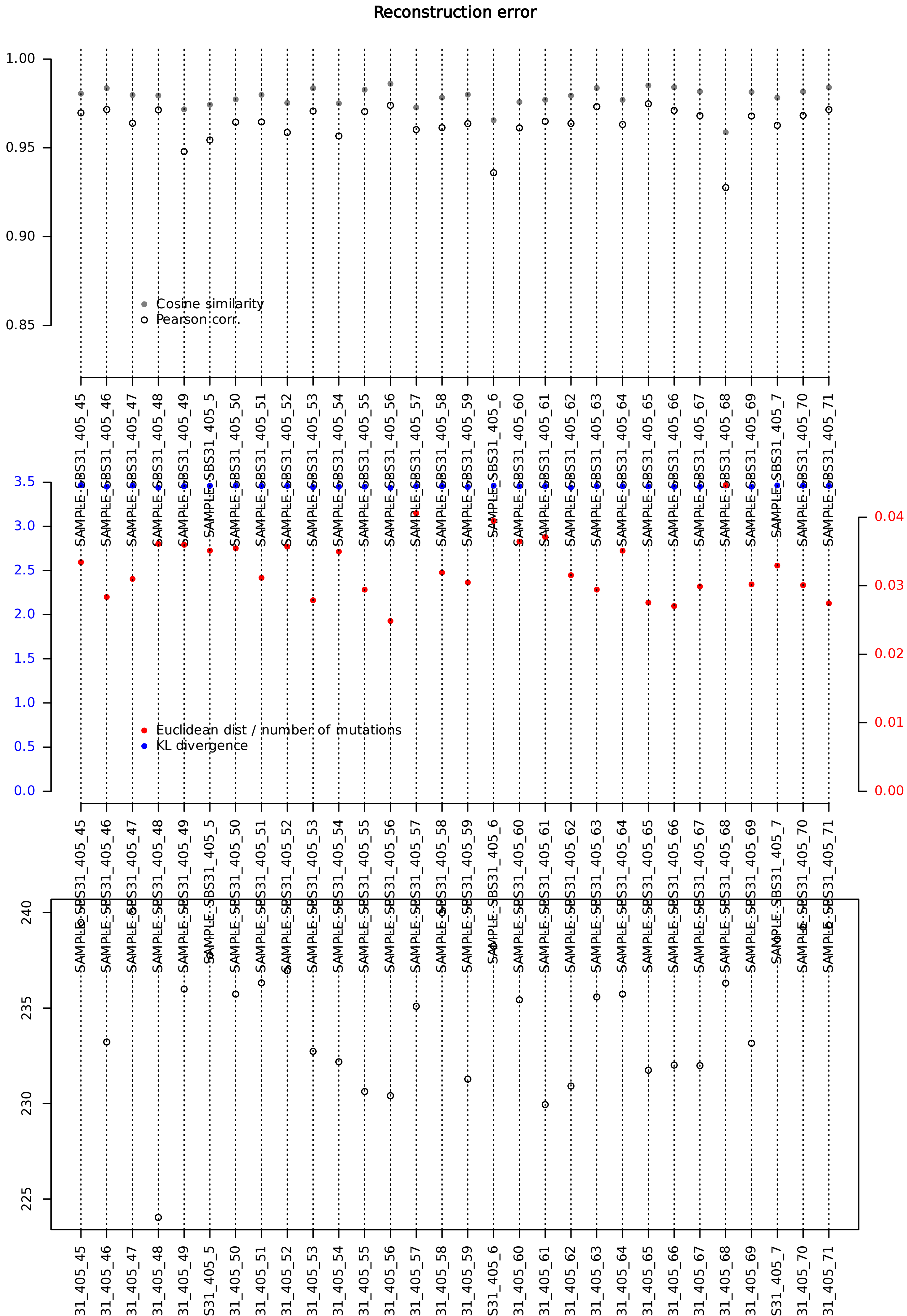
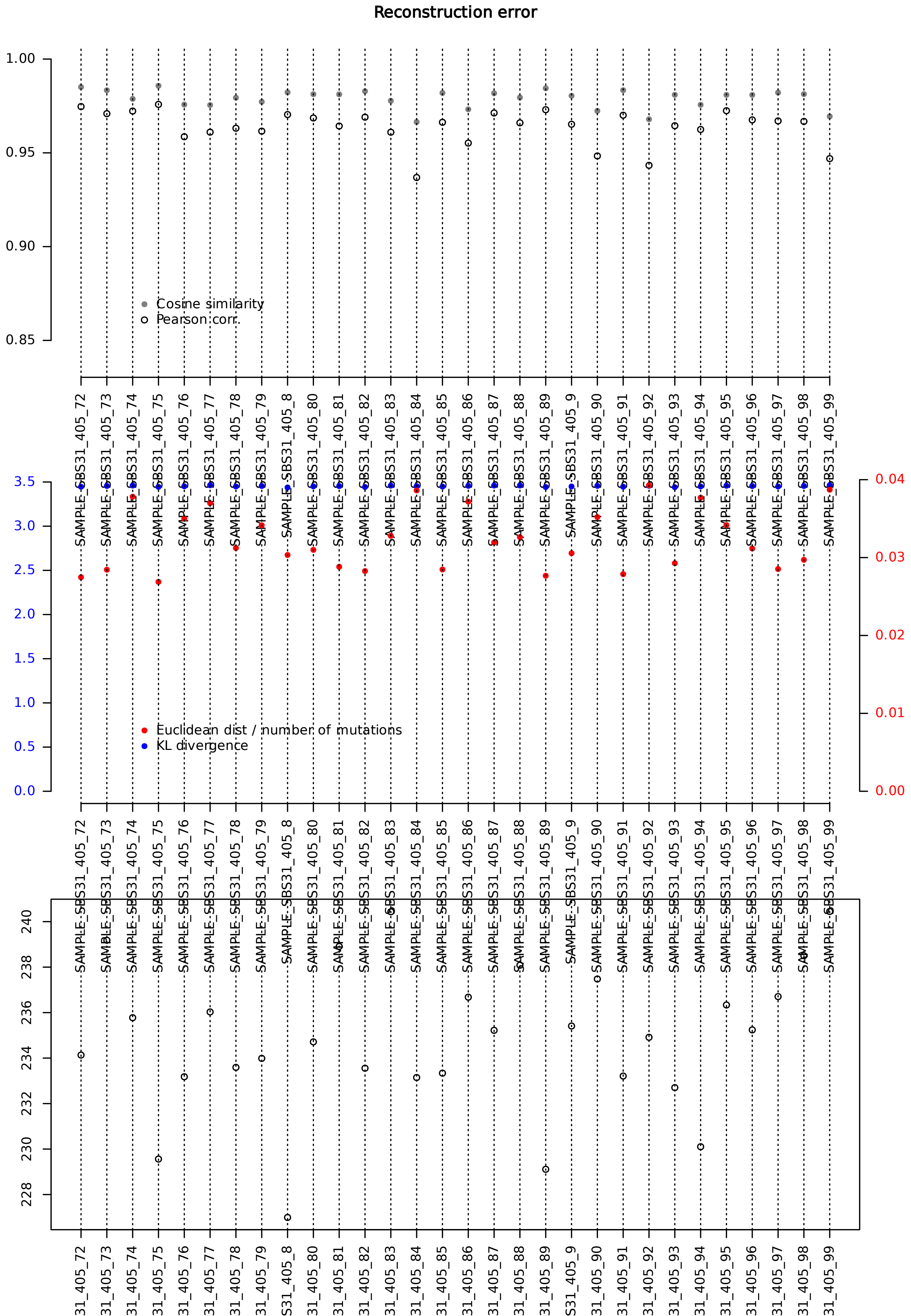
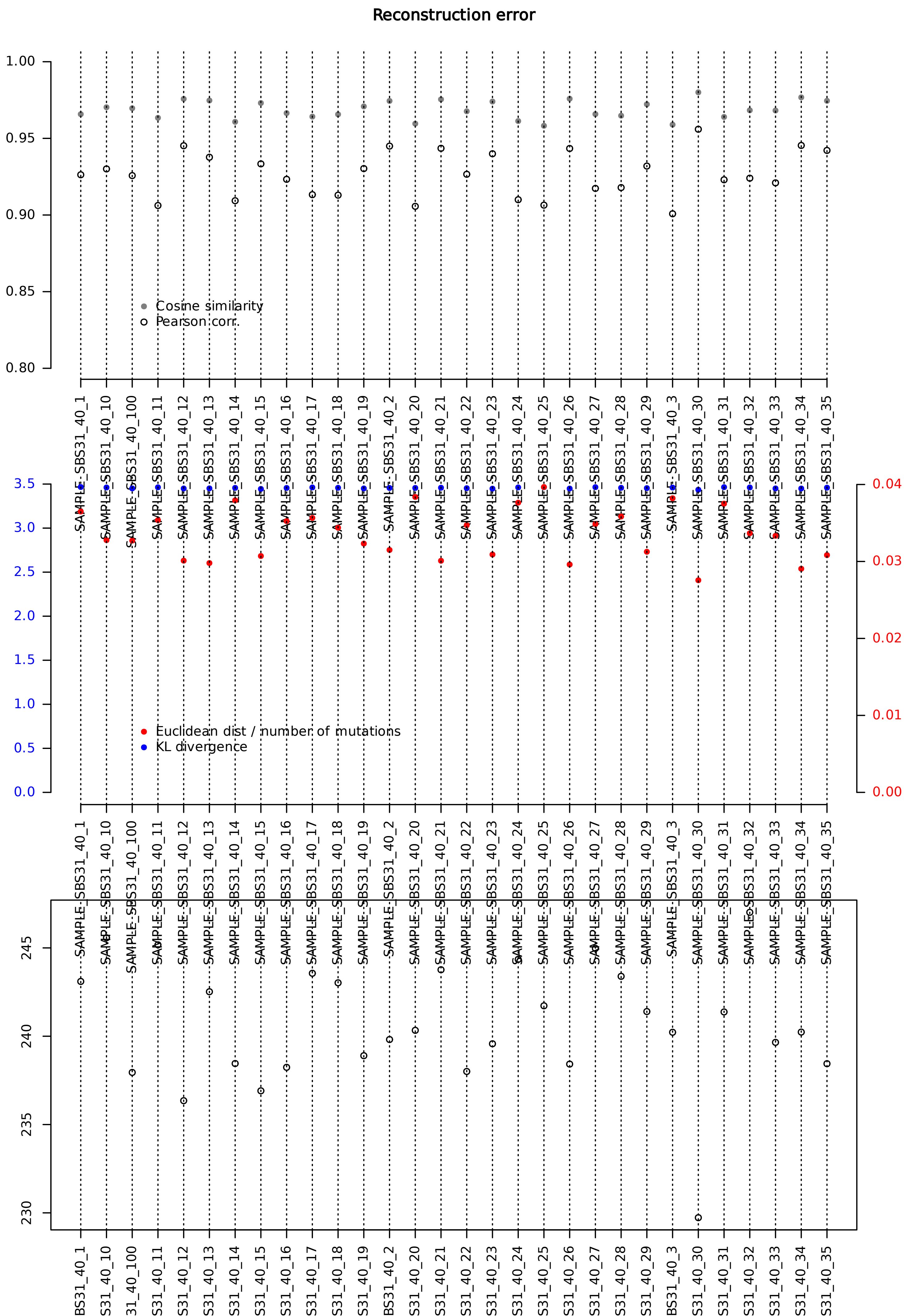
S31_400_8
31_400_80

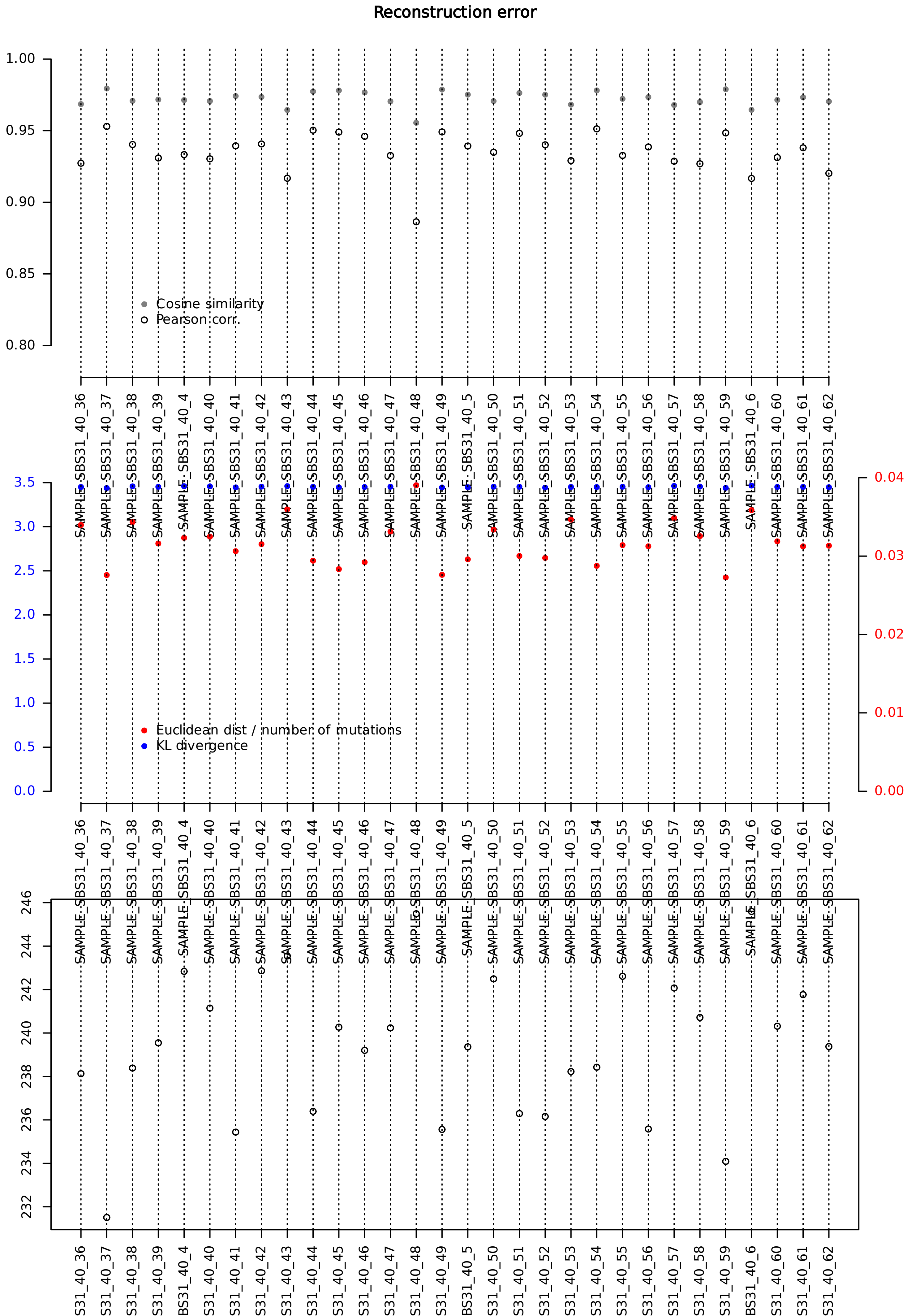

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
242
240
238
236
234
232
230
SAMPLE-SBS31_400_81
SAMPLE-SBS31_400_82
SAMPLE-SBS31_400_83
SAMPLE-SBS31_400_84
SAMPLE-SBS31_400_85
SAMPLE-SBS31_400_86
SAMPLE-SBS31_400_87
SAMPLE-SBS31_400_88
SAMPLE-SBS31_400_89
SAMPLE-SBS31_400_9
SAMPLE-SBS31_400_90
SAMPLE-SBS31_400_91
SAMPLE-SBS31_400_92
SAMPLE-SBS31_400_93
SAMPLE-SBS31_400_94
SAMPLE-SBS31_400_95
SAMPLE-SBS31_400_96
SAMPLE-SBS31_400_97
SAMPLE-SBS31_400_98
SAMPLE-SBS31_400_99
SAMPLE-SBS31_405_1
SAMPLE-SBS31_405_10
SAMPLE-SBS31_405_100
SAMPLE-SBS31_405_11
SAMPLE-SBS31_405_12
SAMPLE-SBS31_405_13
SAMPLE-SBS31_405_14
SAMPLE-SBS31_405_15
SAMPLE-SBS31_405_16
SAMPLE-SBS31_405_17

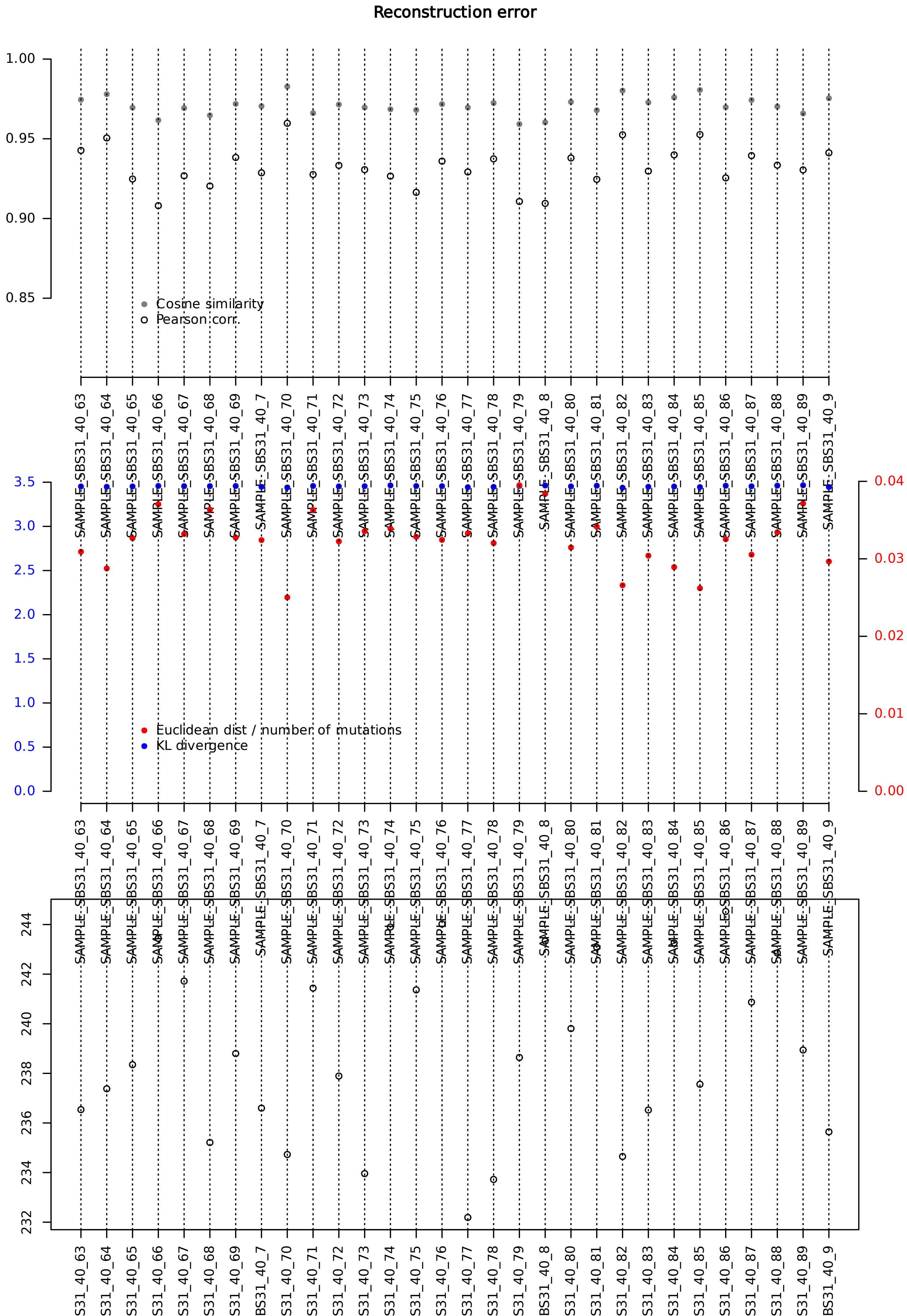

Reconstruction error
1.00
0.95
0.90
0.85
● Cosine similarity
○ Pearson corr.
SAMPLE-SBS31_405_18
SAMPLE-SBS31_405_19
SAMPLE-SBS31_405_2
SAMPLE-SBS31_405_20
SAMPLE-SBS31_405_21
SAMPLE-SBS31_405_22
SAMPLE-SBS31_405_23
SAMPLE-SBS31_405_24
SAMPLE-SBS31_405_25
SAMPLE-SBS31_405_26
SAMPLE-SBS31_405_27
SAMPLE-SBS31_405_28
SAMPLE-SBS31_405_29
SAMPLE-SBS31_405_3
SAMPLE-SBS31_405_30
SAMPLE-SBS31_405_31
SAMPLE-SBS31_405_32
SAMPLE-SBS31_405_33
SAMPLE-SBS31_405_34
SAMPLE-SBS31_405_35
SAMPLE-SBS31_405_36
SAMPLE-SBS31_405_37
SAMPLE-SBS31_405_38
SAMPLE-SBS31_405_39
SAMPLE-SBS31_405_4
SAMPLE-SBS31_405_40
SAMPLE-SBS31_405_41
SAMPLE-SBS31_405_42
SAMPLE-SBS31_405_43
SAMPLE-SBS31_405_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
250
245
240
235

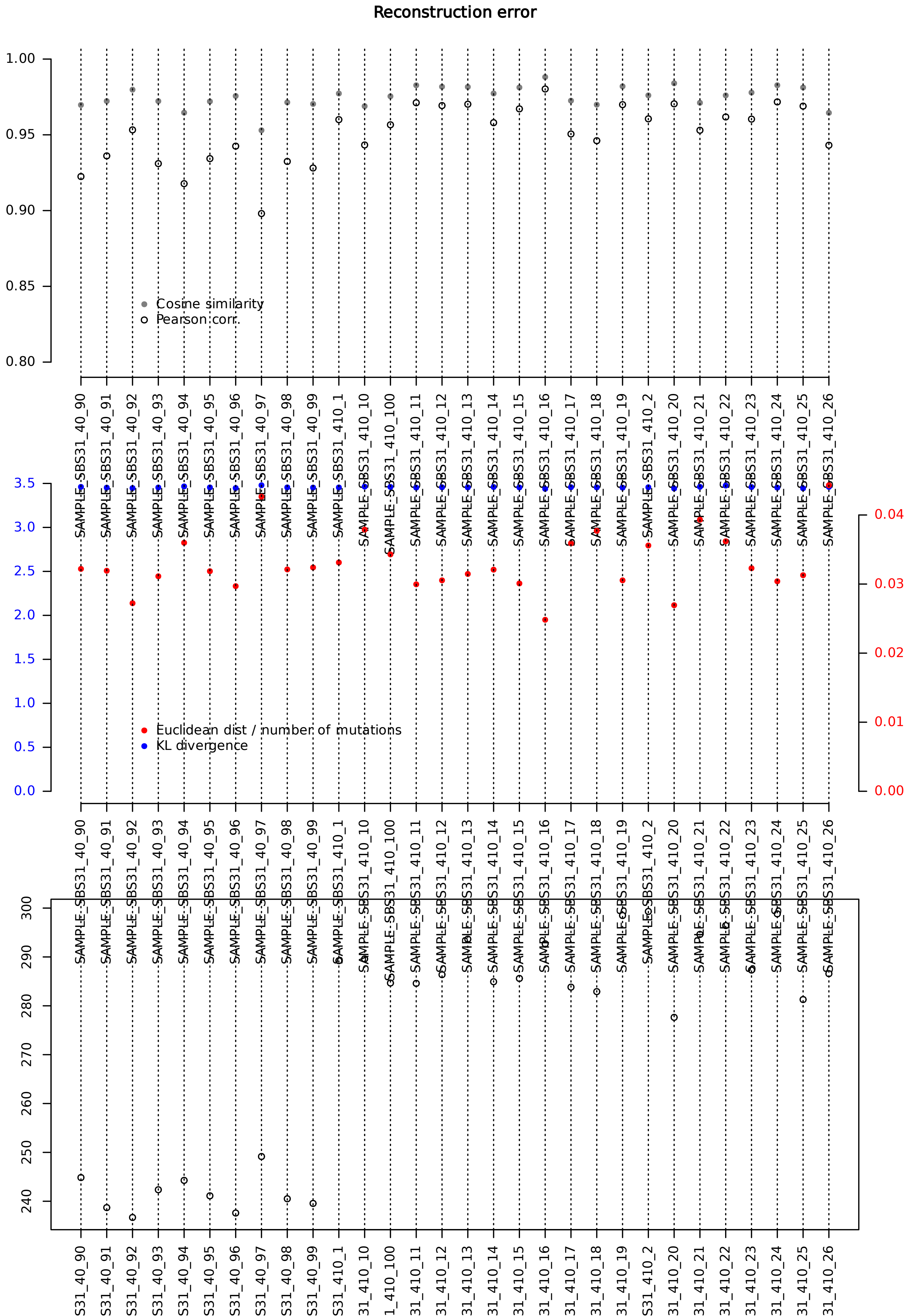

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
SAMPLE-SBS31_405_45
SAMPLE-SBS31_405_46
SAMPLE-SBS31_405_47
SAMPLE-SBS31_405_48
SAMPLE-SBS31_405_49
SAMPLE-SBS31_405_5
SAMPLE-SBS31_405_50
SAMPLE-SBS31_405_51
SAMPLE-SBS31_405_52
SAMPLE-SBS31_405_53
SAMPLE-SBS31_405_54
SAMPLE-SBS31_405_55
SAMPLE-SBS31_405_56
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
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

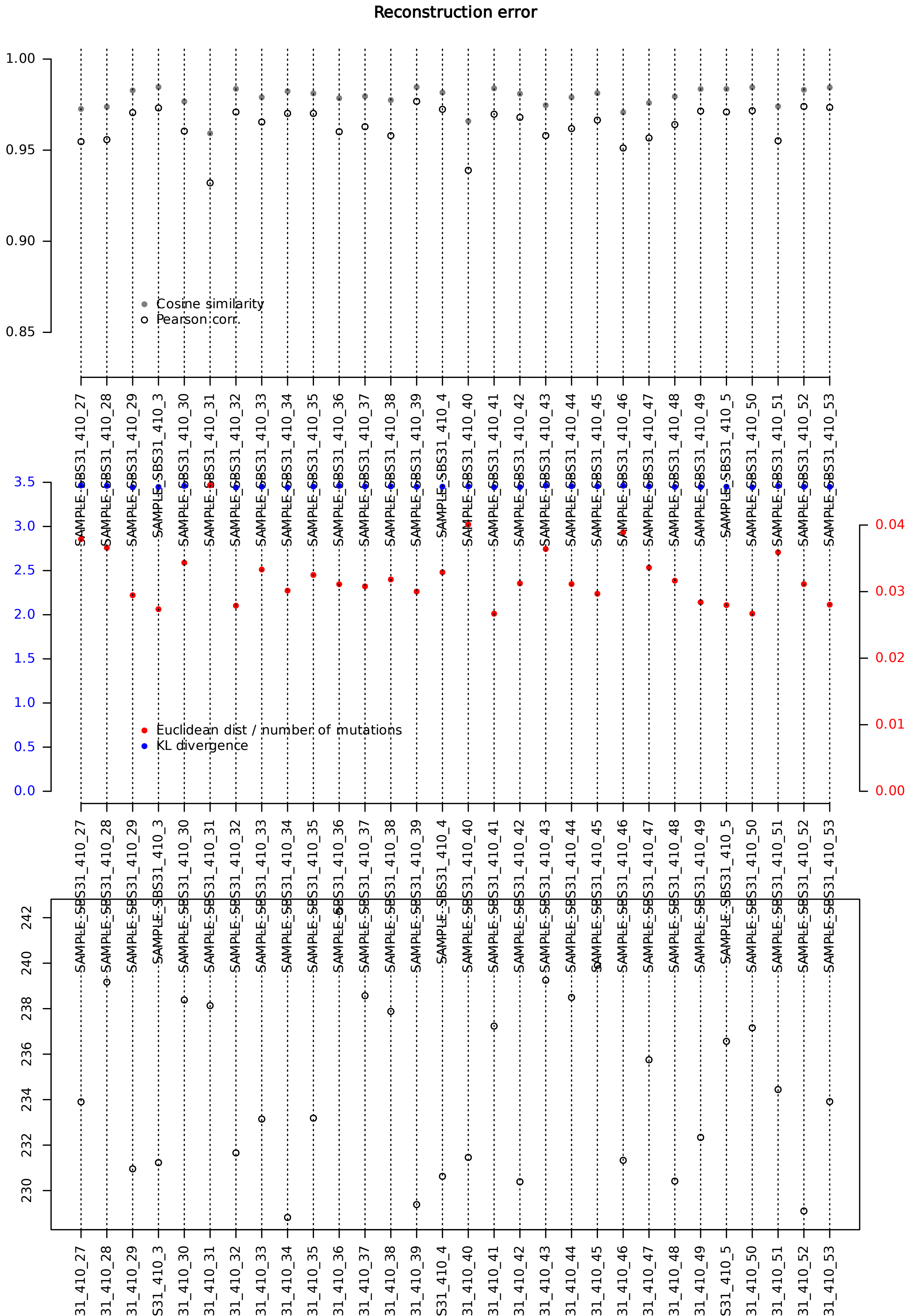

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
SAMPLE-SBS31_405_72
SAMPLE-SBS31_405_73
SAMPLE-SBS31_405_74
SAMPLE-SBS31_405_75
SAMPLE-SBS31_405_76
SAMPLE-SBS31_405_77
SAMPLE-SBS31_405_78
SAMPLE-SBS31_405_79
SAMPLE-SBS31_405_8
SAMPLE-SBS31_405_80
SAMPLE-SBS31_405_81
SAMPLE-SBS31_405_82
SAMPLE-SBS31_405_83
SAMPLE-SBS31_405_84
SAMPLE-SBS31_405_85
SAMPLE-SBS31_405_86
SAMPLE-SBS31_405_87
SAMPLE-SBS31_405_88
SAMPLE-SBS31_405_89
SAMPLE-SBS31_405_9
SAMPLE-SBS31_405_90
SAMPLE-SBS31_405_91
SAMPLE-SBS31_405_92
SAMPLE-SBS31_405_93
SAMPLE-SBS31_405_94
SAMPLE-SBS31_405_95
SAMPLE-SBS31_405_96
SAMPLE-SBS31_405_97
SAMPLE-SBS31_405_98
SAMPLE-SBS31_405_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
238
236
234
232
230
228


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
245
240
235
230
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

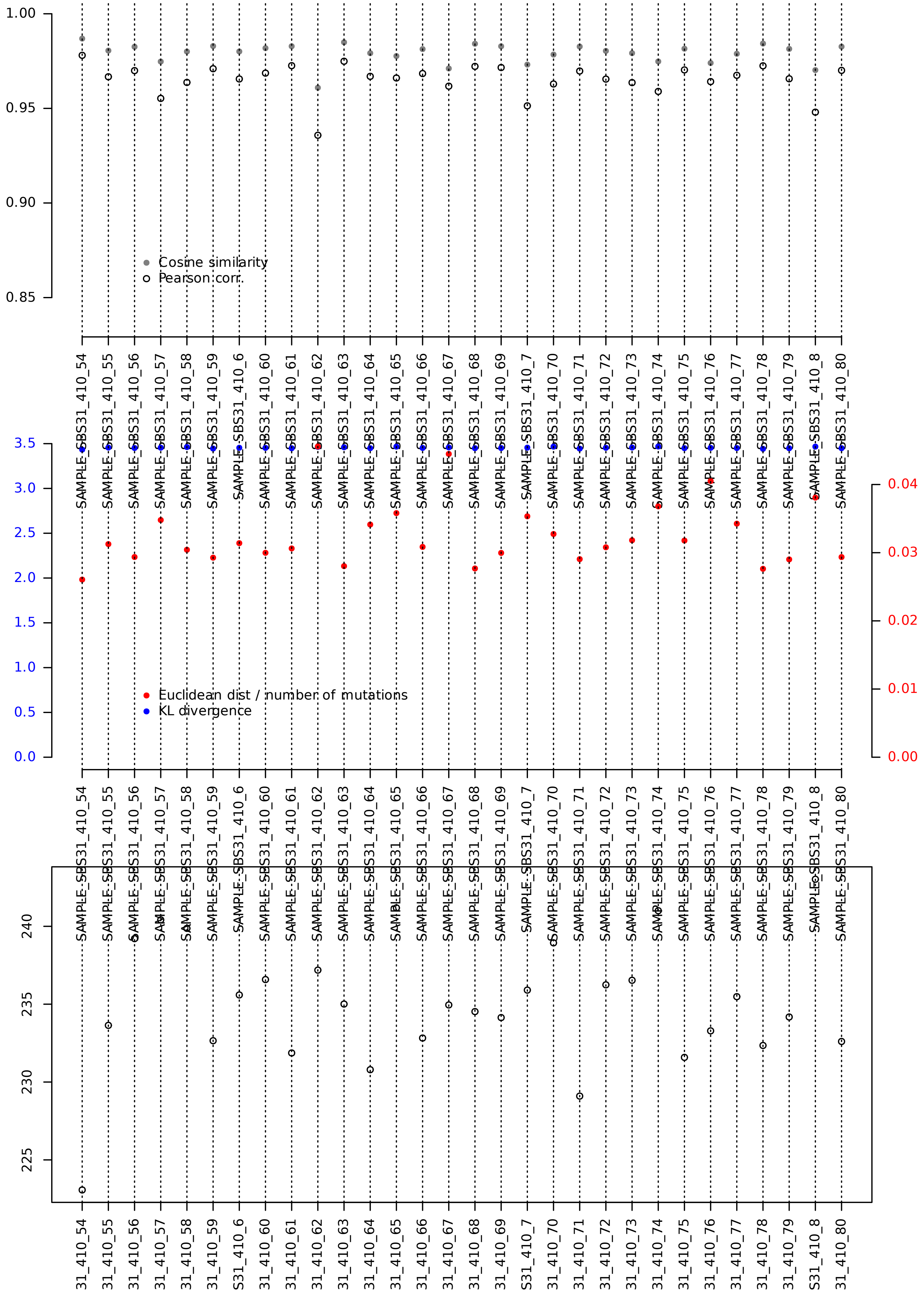

Reconstruction error
1.00
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
246
244
242
240
238
236
234
232
SAMPLE-SBS31_40_36
SAMPLE-SBS31_40_37
SAMPLE-SBS31_40_38
SAMPLE-SBS31_40_39
SAMPLE-SBS31_40_4
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

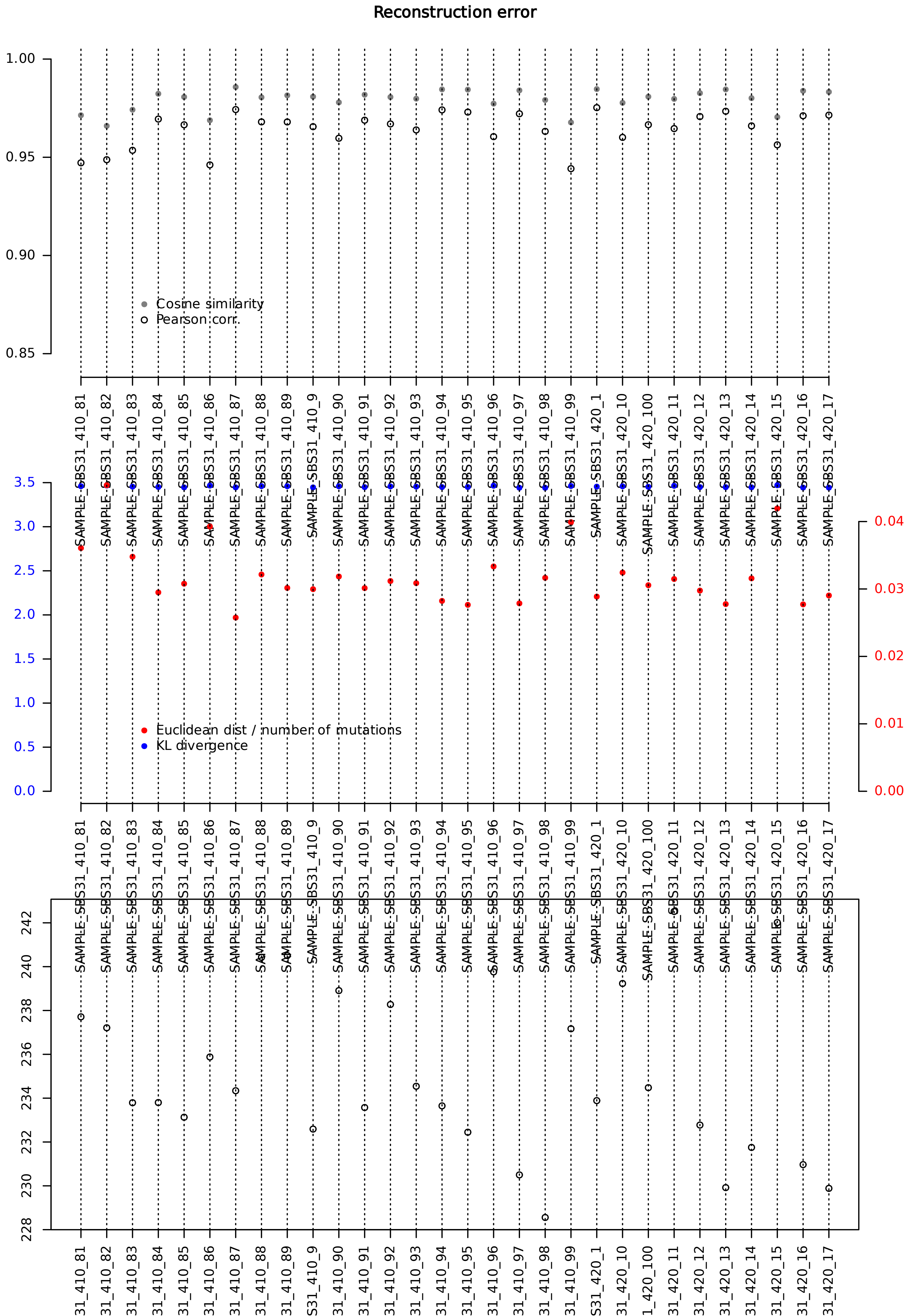

Reconstruction error
1.00
0.95
0.90
0.85
● Cosine similarity
○ Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
● Euclidean dist / number of mutations
● KL divergence
244
242
240
238
236
234
232
SAMPLE-SBS31_40_63
SAMPLE-SBS31_40_64
SAMPLE-SBS31_40_65
SAMPLE-SBS31_40_66
SAMPLE-SBS31_40_67
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

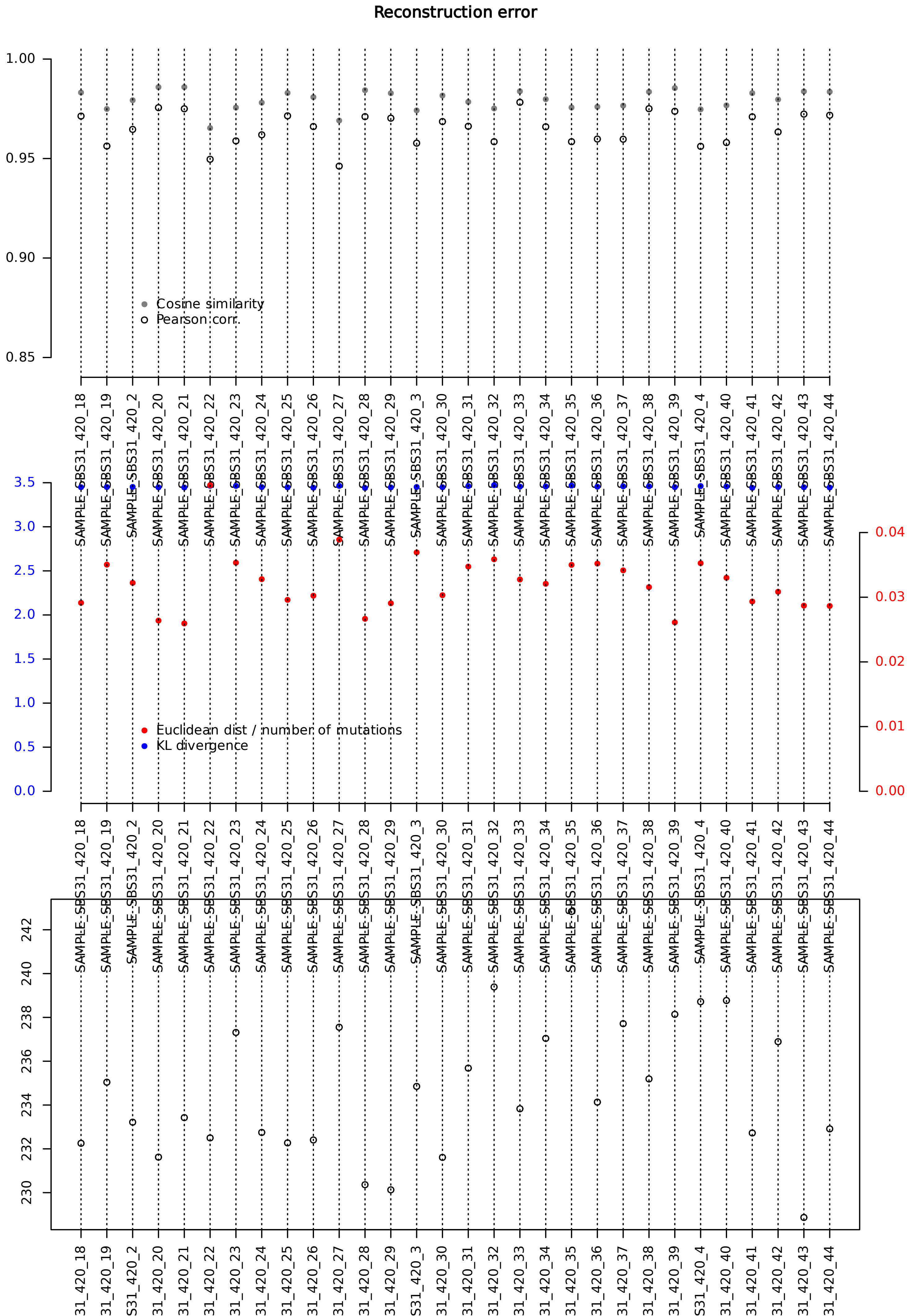

Reconstruction error
1.00
0.95
0.90
0.85
0.80
● Cosine similarity
○ Pearson corr.
SAMPLE-SBS31_40_90
SAMPLE-SBS31_40_91
SAMPLE-SBS31_40_92
SAMPLE-SBS31_40_93
SAMPLE-SBS31_40_94
SAMPLE-SBS31_40_95
SAMPLE-SBS31_40_96
SAMPLE-SBS31_40_97
SAMPLE-SBS31_40_98
SAMPLE-SBS31_40_99
SAMPLE-SBS31_410_1
SAMPLE-SBS31_410_10
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
290
280
270
260
250
240

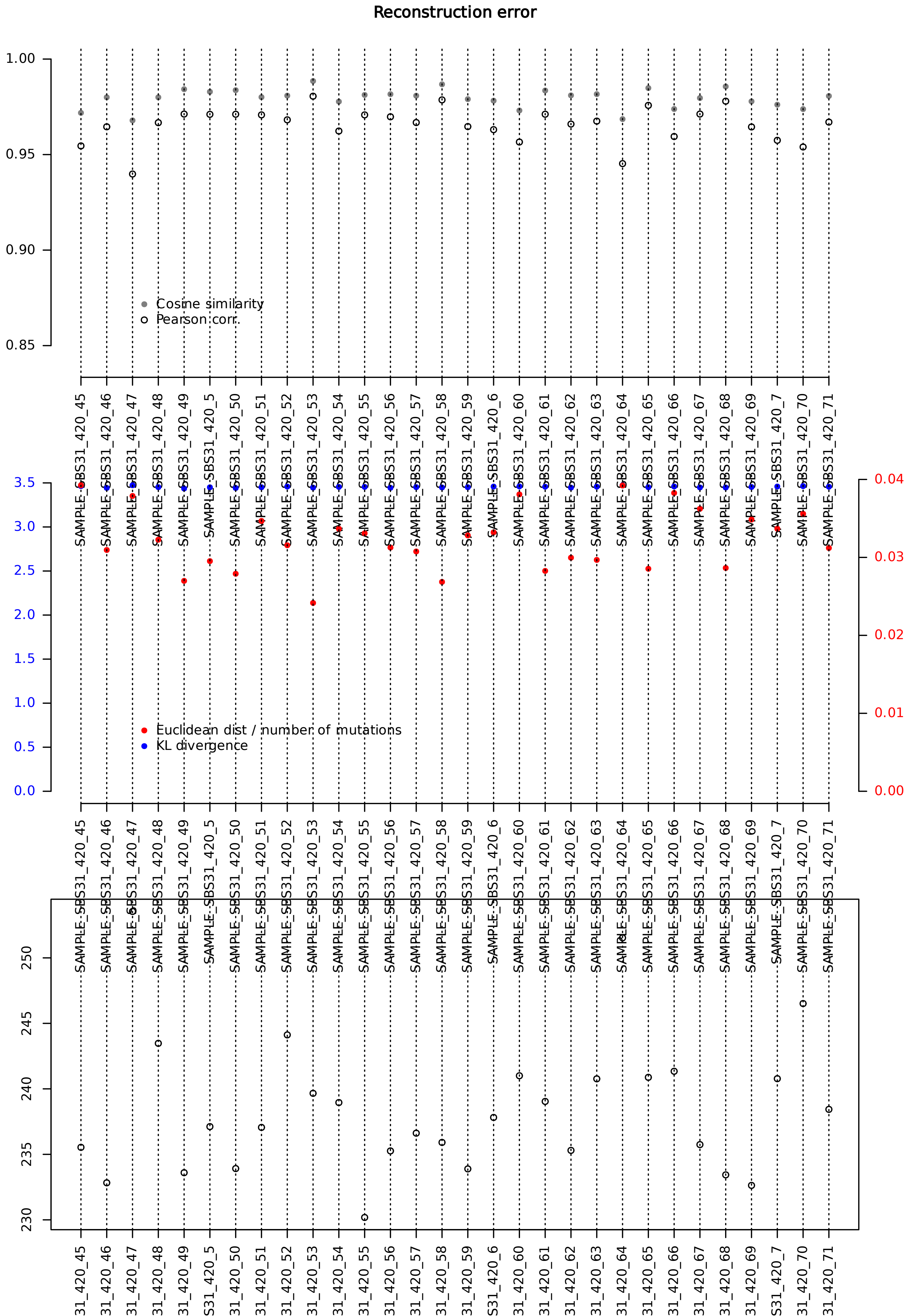

Reconstruction error
1.00
0.95
0.90
0.85
● Cosine similarity
○ Pearson corr.
SAMPLE-SBS31_410_27
SAMPLE-SBS31_410_28
SAMPLE-SBS31_410_29
SAMPLE-SBS31_410_3
SAMPLE-SBS31_410_30
SAMPLE-SBS31_410_31
SAMPLE-SBS31_410_32
SAMPLE-SBS31_410_33
SAMPLE-SBS31_410_34
SAMPLE-SBS31_410_35
SAMPLE-SBS31_410_36
SAMPLE-SBS31_410_37
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
242
240
238
236
234
232
230

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
242
240
238
236
234
232
230
228
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_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


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
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
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
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
242
240
238
236
234
232
230


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
250
245
240
235
230
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
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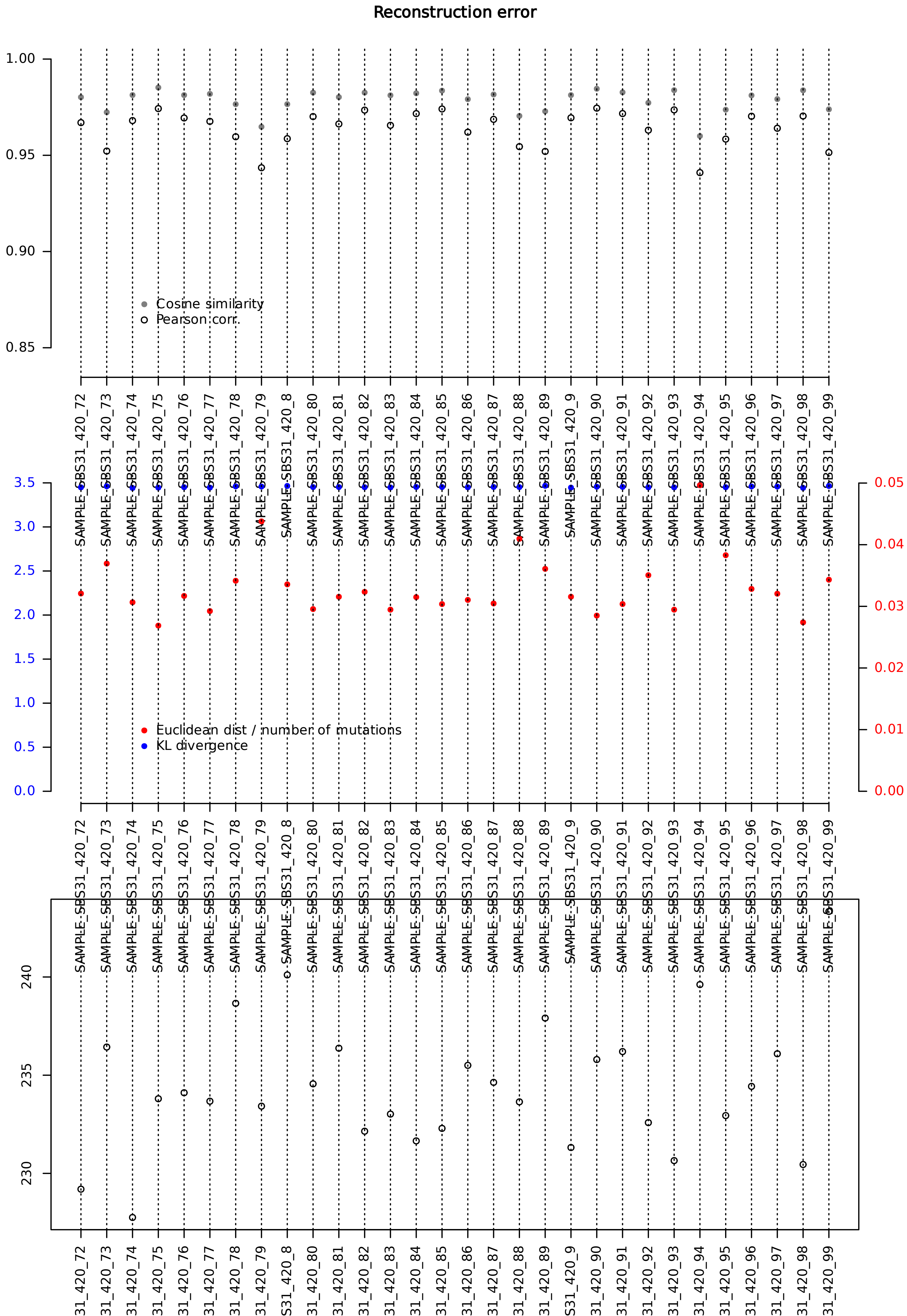
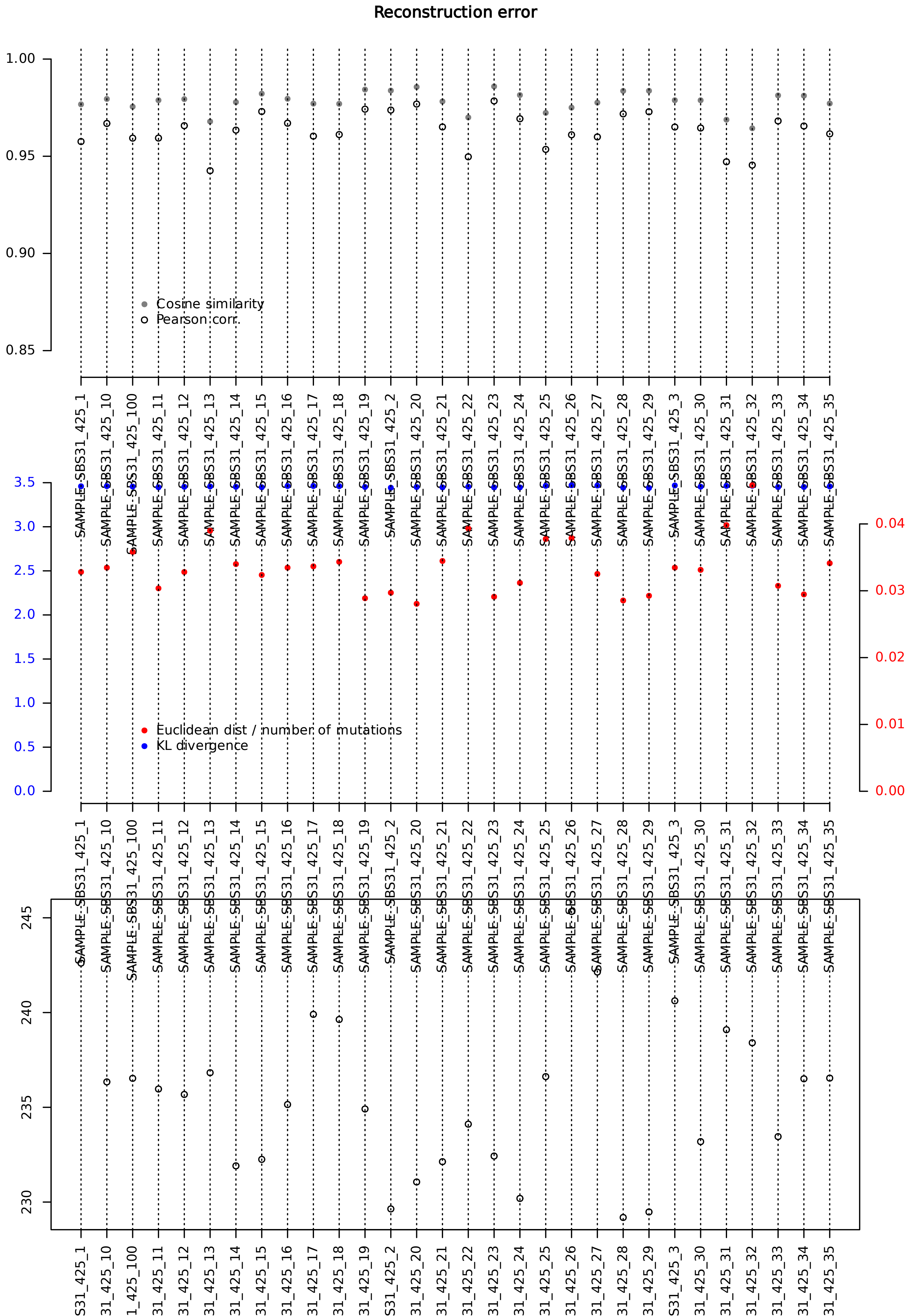
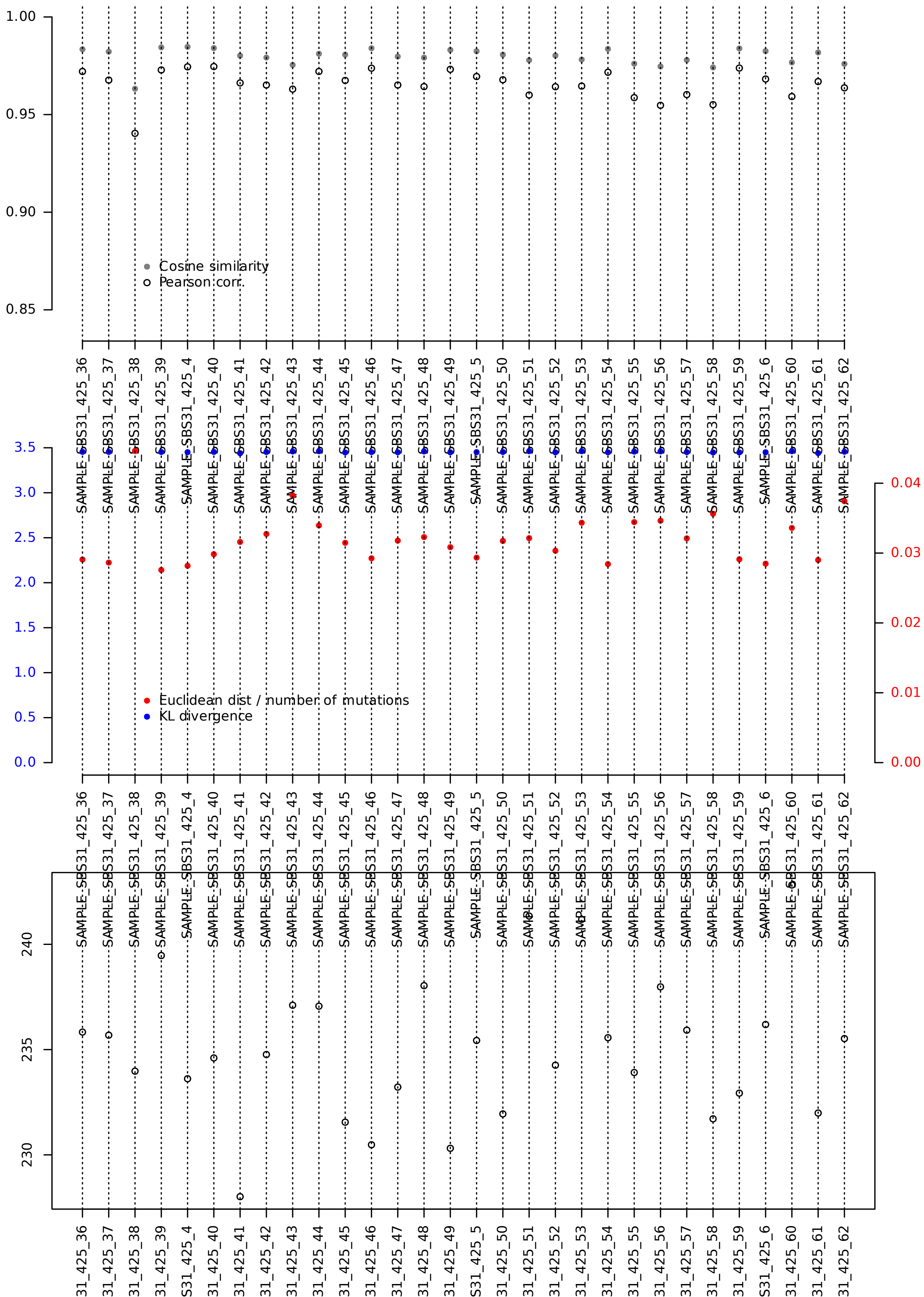
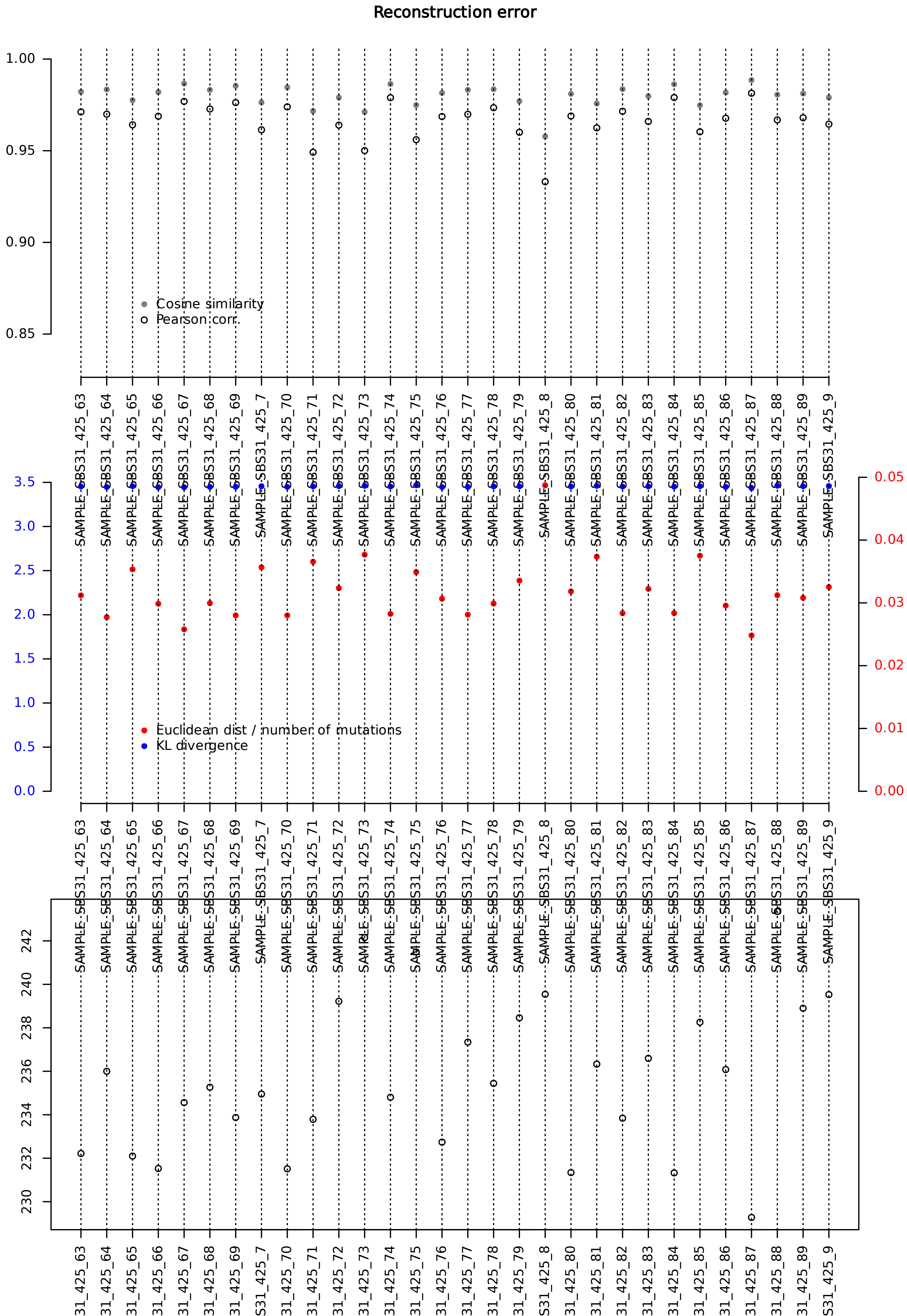
SAMPLE-SBS31_420_61
SAMPLE-SBS31_420_62
SAMPLE-SBS31_420_63
SAMPLE-SBS31_420_64
SAMPLE-SBS31_420_65
SAMPLE-SBS31_420_66
SAMPLE-SBS31_420_67
SAMPLE-SBS31_420_68
SAMPLE-SBS31_420_69
SAMPLE-SBS31_420_7
SAMPLE-SBS31_420_70
SAMPLE-SBS31_420_71


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
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
SAMPLE-SBS31_420_90
SAMPLE-SBS31_420_91
SAMPLE-SBS31_420_92
SAMPLE-SBS31_420_93
SAMPLE-SBS31_420_94
SAMPLE-SBS31_420_95
SAMPLE-SBS31_420_96
SAMPLE-SBS31_420_97
SAMPLE-SBS31_420_98
SAMPLE-SBS31_420_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
245
240
235
230
SAMPLE-SBS31_425_1
SAMPLE-SBS31_425_10
SAMPLE-SBS31_425_100
SAMPLE-SBS31_425_11
SAMPLE-SBS31_425_12
SAMPLE-SBS31_425_13
SAMPLE-SBS31_425_14
SAMPLE-SBS31_425_15
SAMPLE-SBS31_425_16
SAMPLE-SBS31_425_17
SAMPLE-SBS31_425_18
SAMPLE-SBS31_425_19
SAMPLE-SBS31_425_2
SAMPLE-SBS31_425_20
SAMPLE-SBS31_425_21
SAMPLE-SBS31_425_22
SAMPLE-SBS31_425_23
SAMPLE-SBS31_425_24
SAMPLE-SBS31_425_25
SAMPLE-SBS31_425_26
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


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
242
240
238
236
234
232
230
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
SAMPLE-SBS31_425_81
SAMPLE-SBS31_425_82
SAMPLE-SBS31_425_83
SAMPLE-SBS31_425_84
SAMPLE-SBS31_425_85
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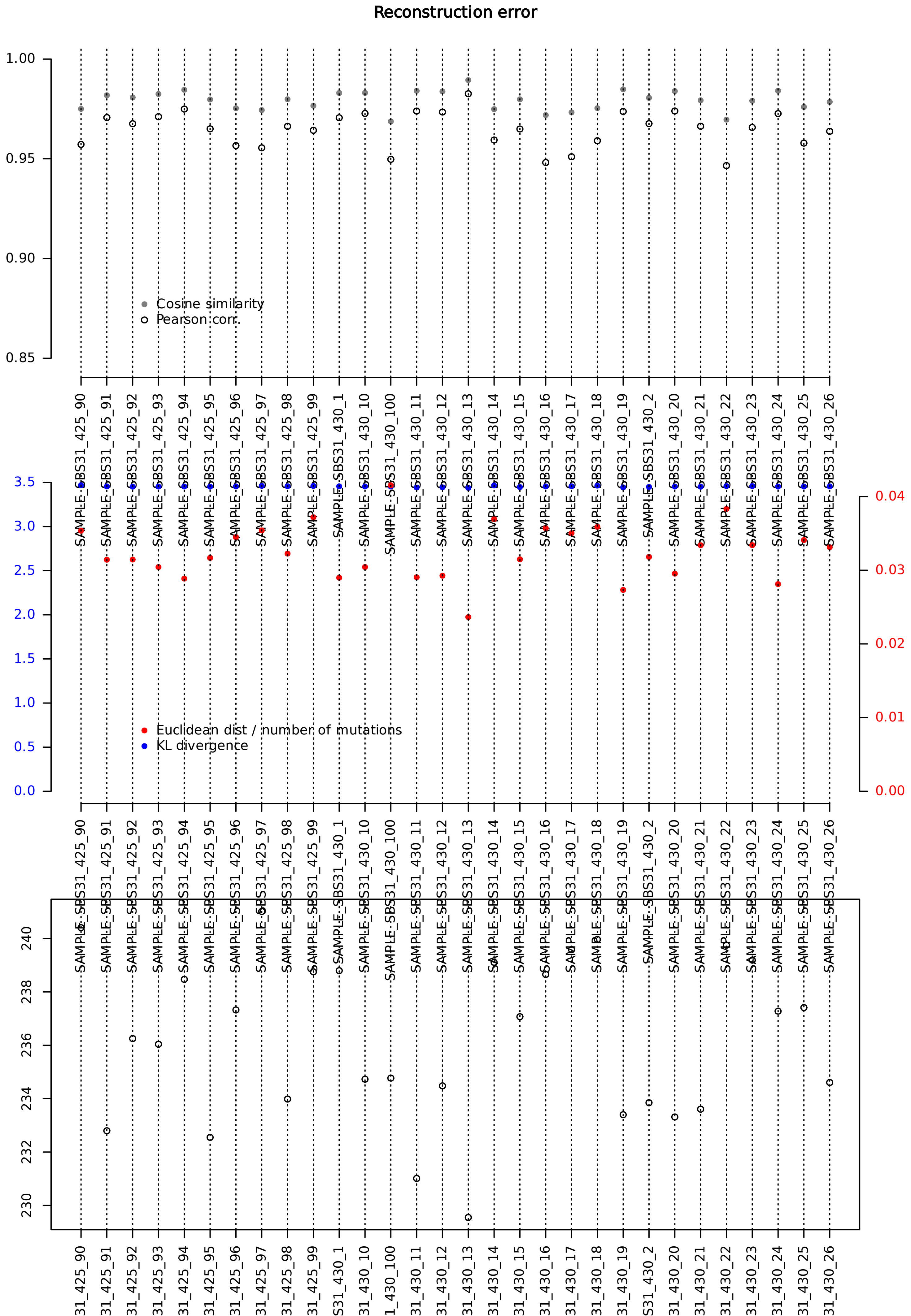
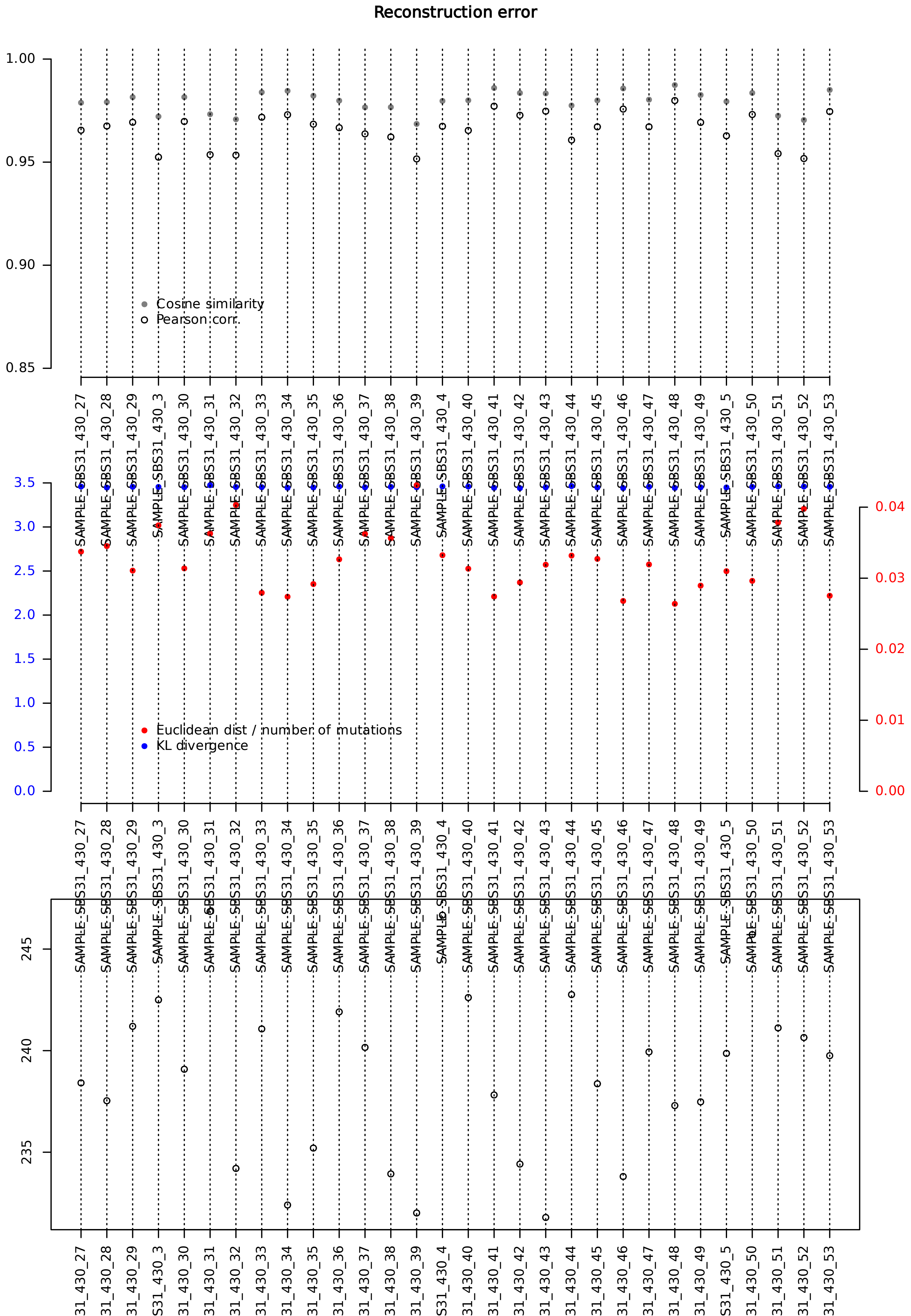
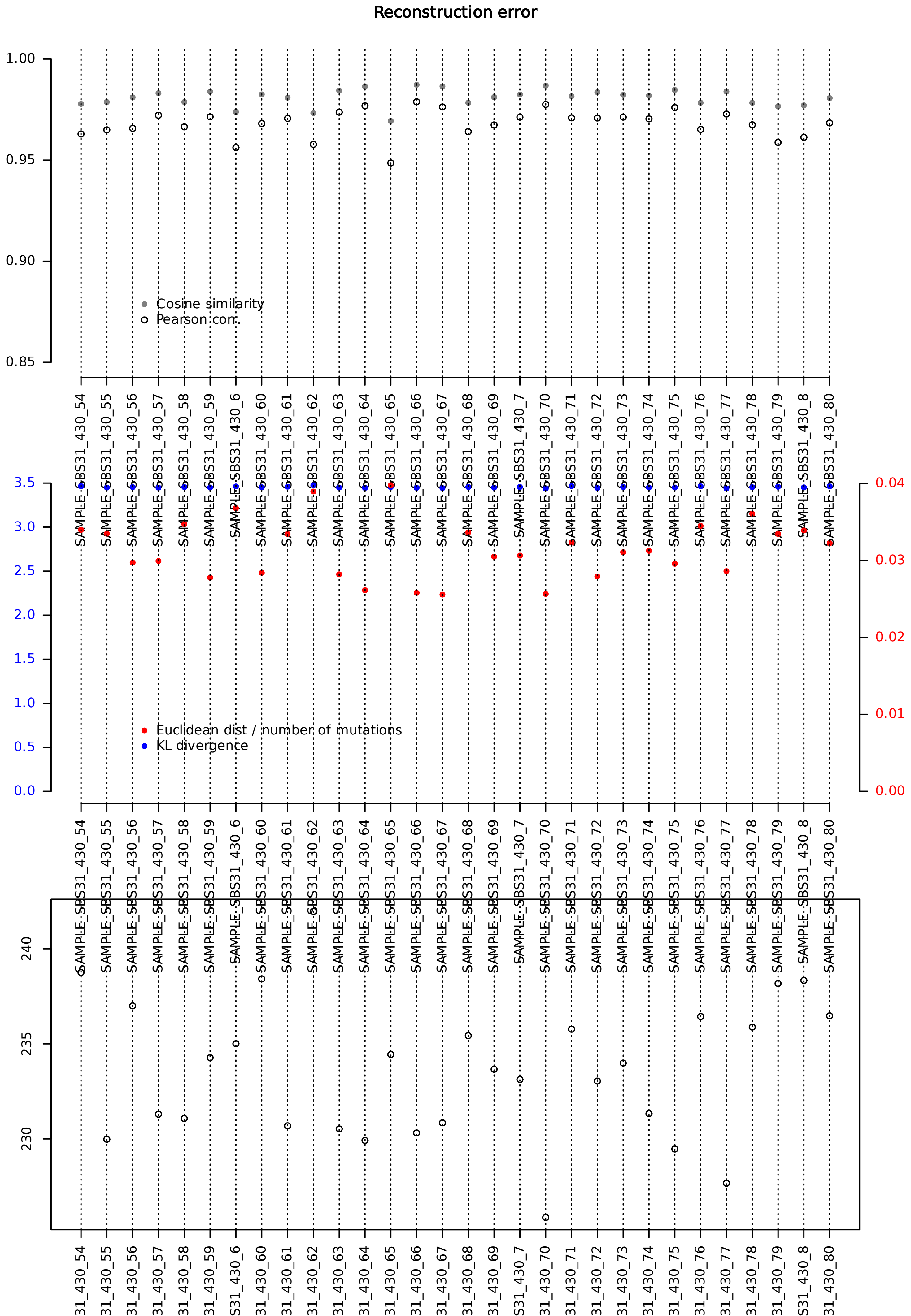
SAMPLE-SBS31_425_87
SAMPLE-SBS31_425_88
SAMPLE-SBS31_425_89
SAMPLE-SBS31_425_9


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
240
238
236
234
232
230
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
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


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
245
240
235
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
SAMPLE-SBS31_430_40
SAMPLE-SBS31_430_41
SAMPLE-SBS31_430_42
SAMPLE-SBS31_430_43
SAMPLE-SBS31_430_44
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


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
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
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SAMPLE-SBS31_430_63
SAMPLE-SBS31_430_64
SAMPLE-SBS31_430_65
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SAMPLE-SBS31_430_67
SAMPLE-SBS31_430_68
SAMPLE-SBS31_430_69
SAMPLE-SBS31_430_7
SAMPLE-SBS31_430_70
SAMPLE-SBS31_430_71
SAMPLE-SBS31_430_72
SAMPLE-SBS31_430_73
SAMPLE-SBS31_430_74
SAMPLE-SBS31_430_75
SAMPLE-SBS31_430_76
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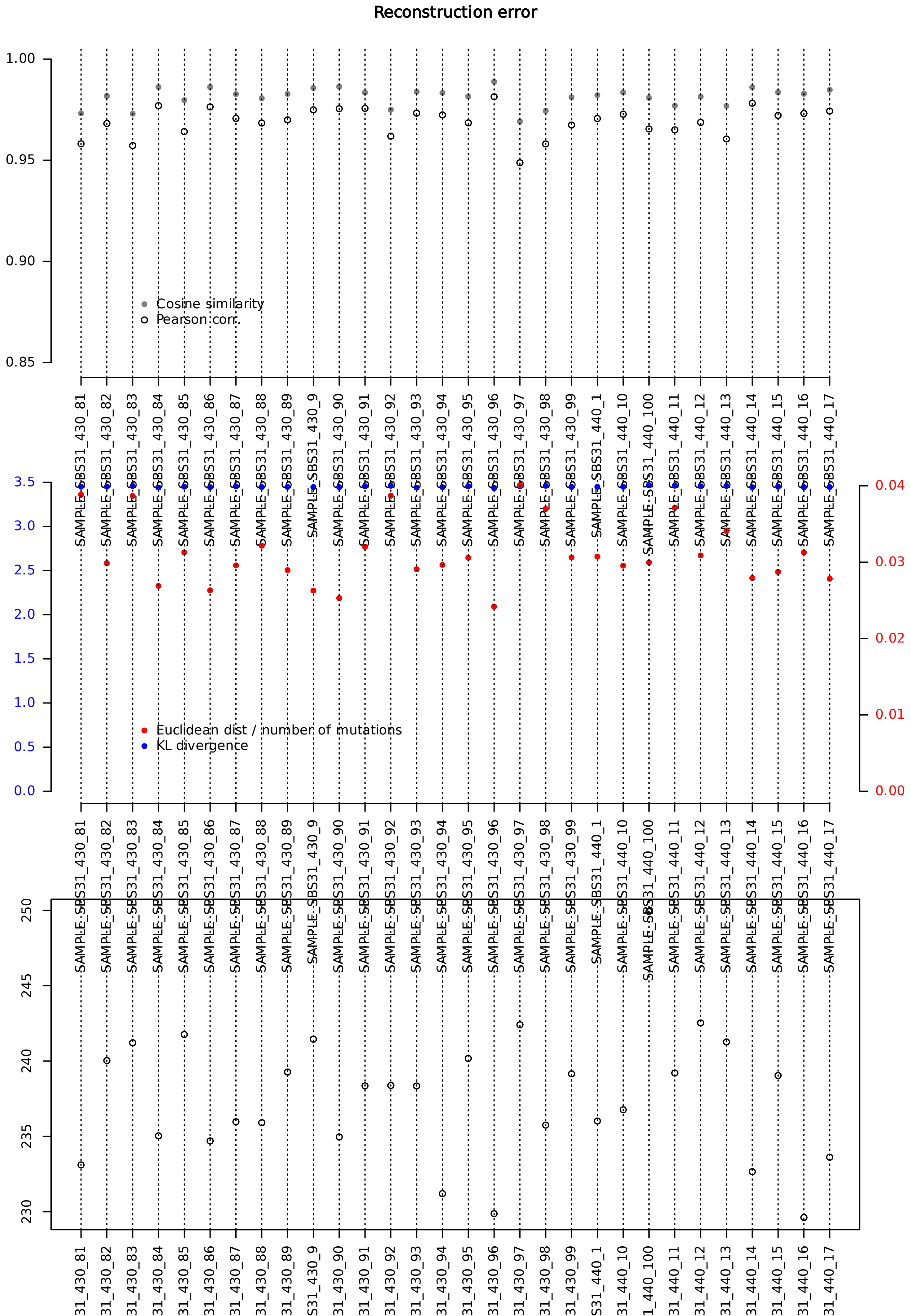
SAMPLE-SBS31_430_79
SAMPLE-SBS31_430_8
SAMPLE-SBS31_430_80


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
250
245
240
235
230
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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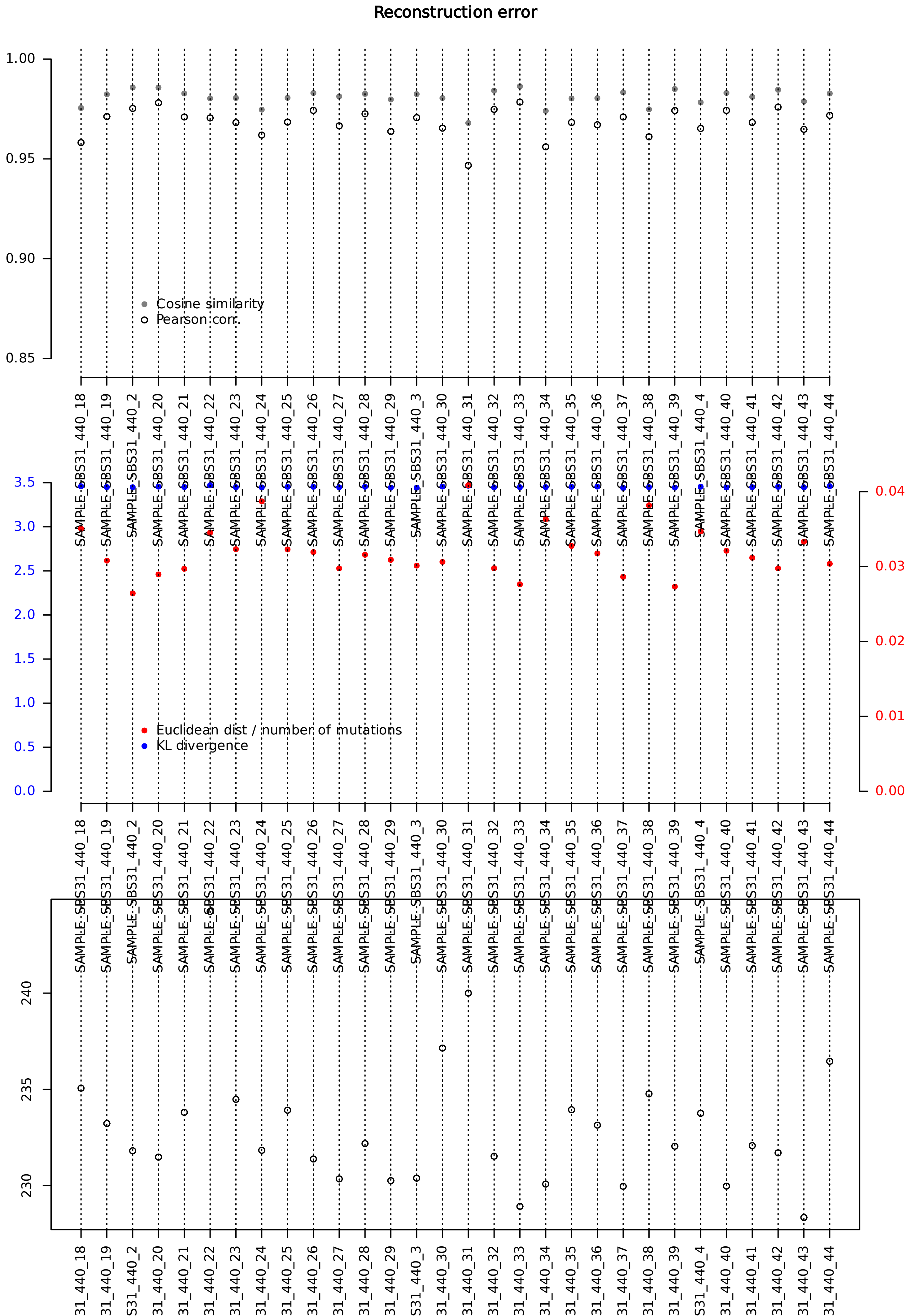
SAMPLE-SBS31_430_91
SAMPLE-SBS31_430_92
SAMPLE-SBS31_430_93
SAMPLE-SBS31_430_94
SAMPLE-SBS31_430_95
SAMPLE-SBS31_430_96
SAMPLE-SBS31_430_97
SAMPLE-SBS31_430_98
SAMPLE-SBS31_430_99
SAMPLE-SBS31_440_1
SAMPLE-SBS31_440_10
SAMPLE-SBS31_440_100
SAMPLE-SBS31_440_11
SAMPLE-SBS31_440_12
SAMPLE-SBS31_440_13
SAMPLE-SBS31_440_14
SAMPLE-SBS31_440_15
SAMPLE-SBS31_440_16
SAMPLE-SBS31_440_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
240
235
230
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
SAMPLE-SBS31_440_27
SAMPLE-SBS31_440_28
SAMPLE-SBS31_440_29
SAMPLE-SBS31_440_3
SAMPLE-SBS31_440_30
SAMPLE-SBS31_440_31
SAMPLE-SBS31_440_32
SAMPLE-SBS31_440_33
SAMPLE-SBS31_440_34
SAMPLE-SBS31_440_35
SAMPLE-SBS31_440_36
SAMPLE-SBS31_440_37
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SAMPLE-SBS31_440_39
SAMPLE-SBS31_440_4
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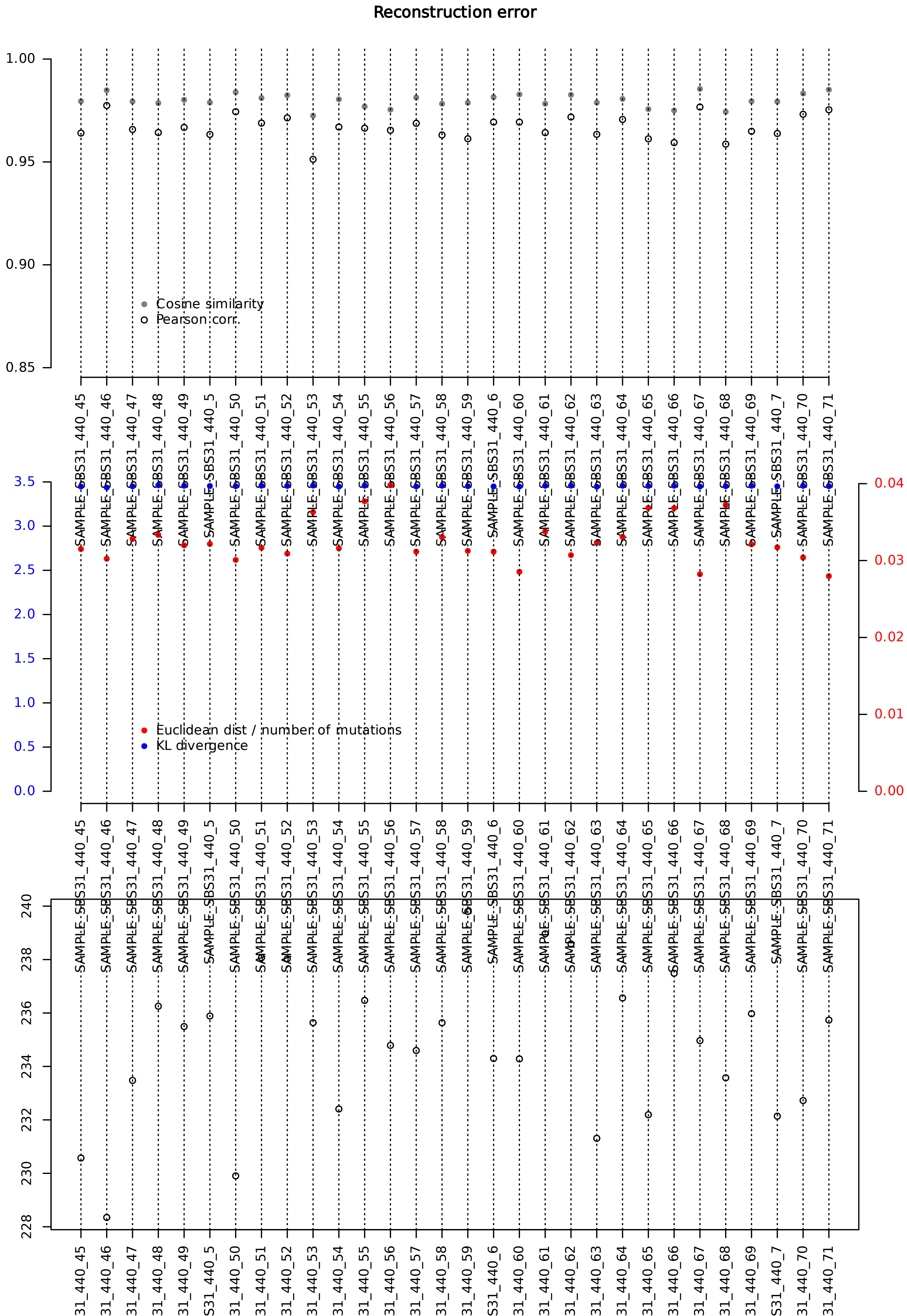
SAMPLE-SBS31_440_42
SAMPLE-SBS31_440_43
SAMPLE-SBS31_440_44


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
SAMPLE-SBS31_440_45
SAMPLE-SBS31_440_46
SAMPLE-SBS31_440_47
SAMPLE-SBS31_440_48
SAMPLE-SBS31_440_49
SAMPLE-SBS31_440_5
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SAMPLE-SBS31_440_51
SAMPLE-SBS31_440_52
SAMPLE-SBS31_440_53
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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
SAMPLE-SBS31_440_63
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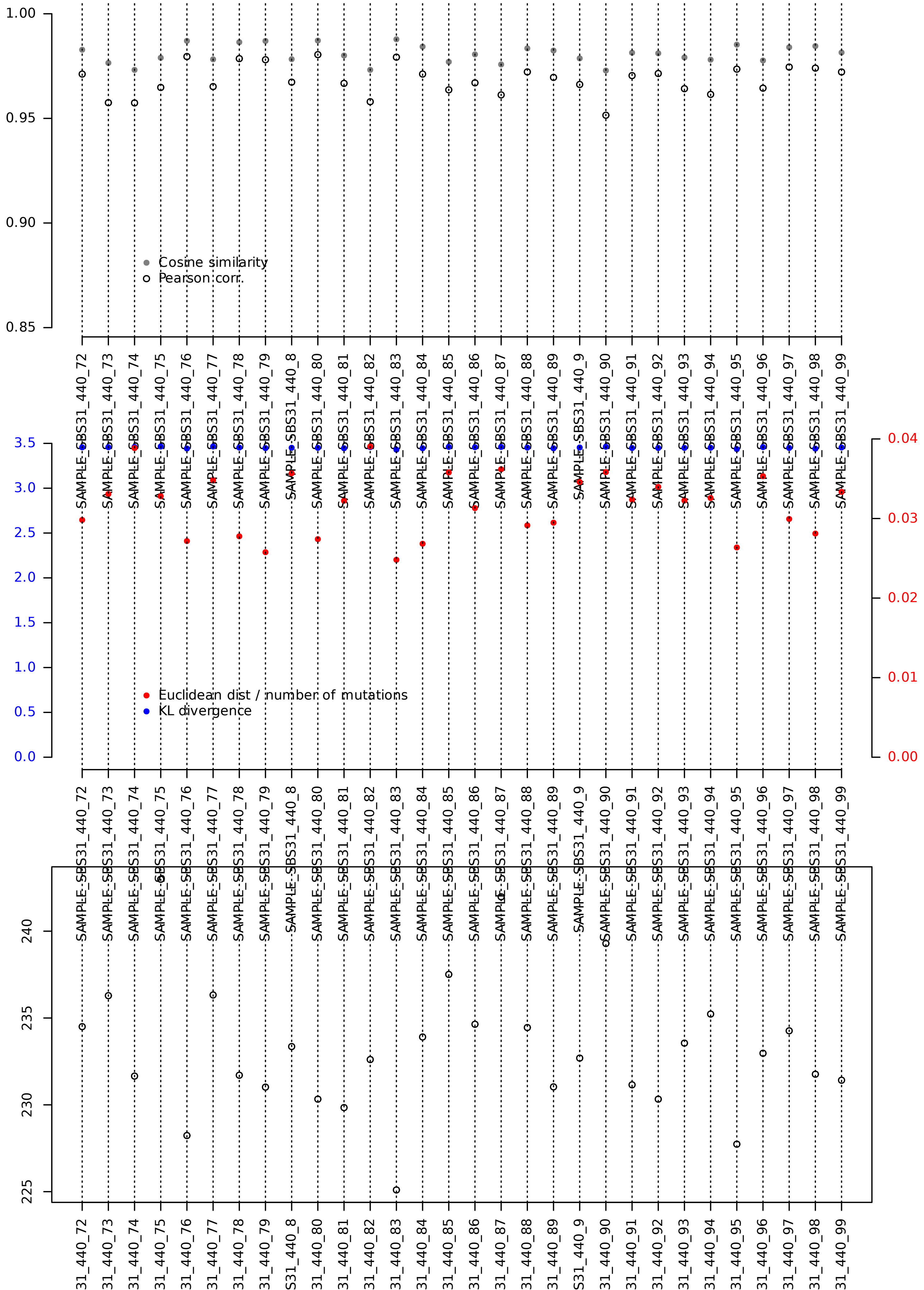
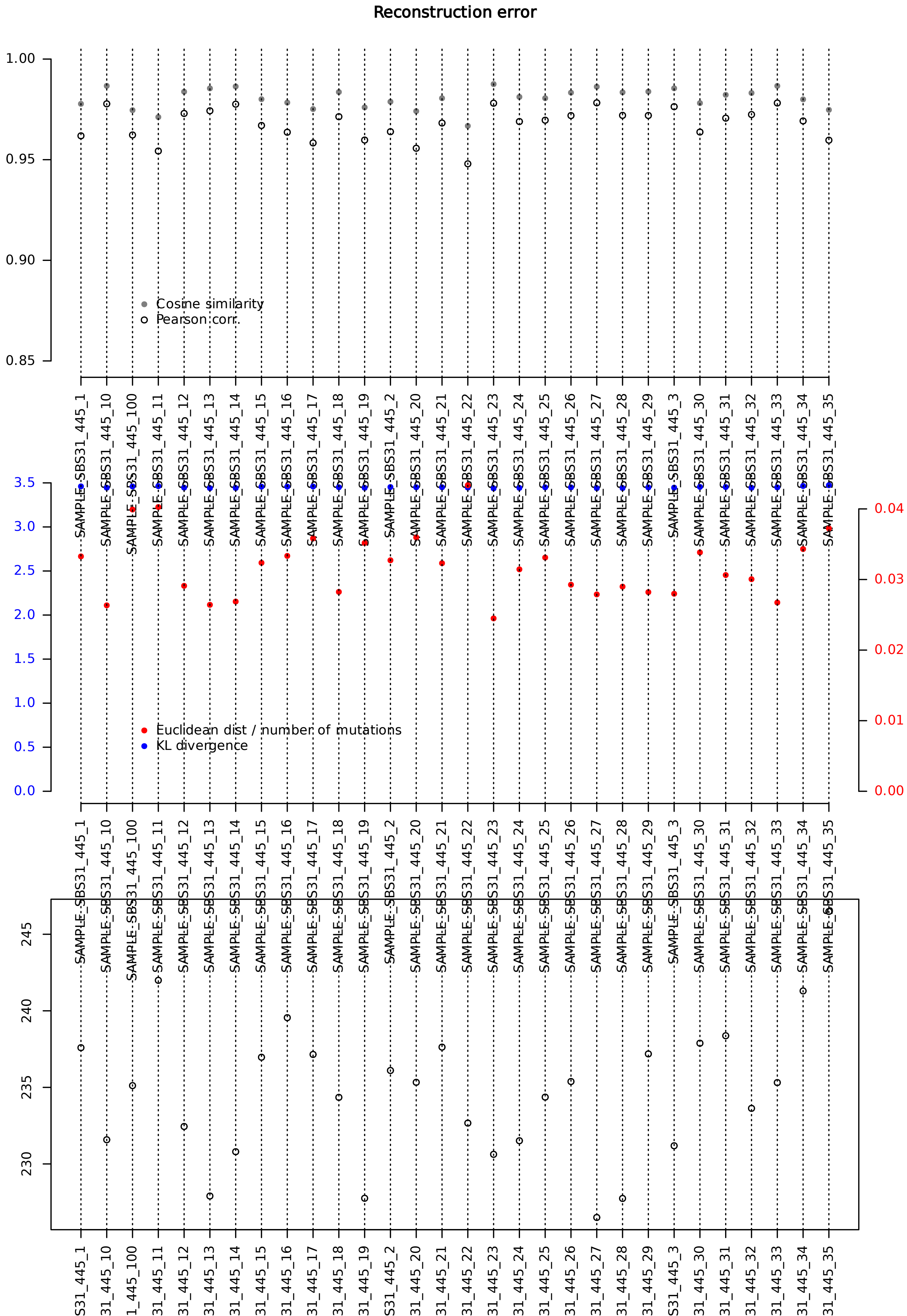
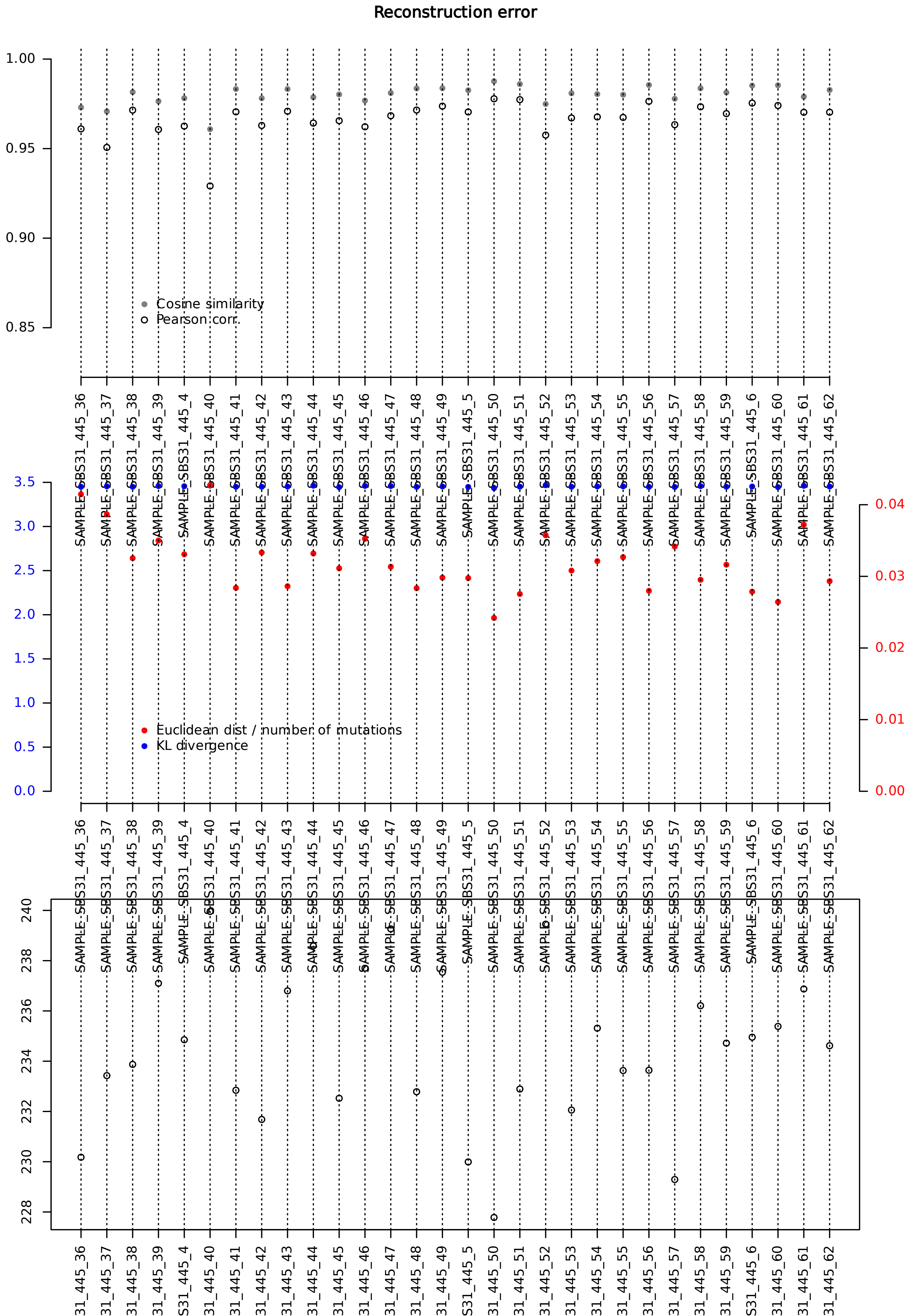
SAMPLE-SBS31_440_65
SAMPLE-SBS31_440_66
SAMPLE-SBS31_440_67
SAMPLE-SBS31_440_68
SAMPLE-SBS31_440_69
SAMPLE-SBS31_440_7
SAMPLE-SBS31_440_70
SAMPLE-SBS31_440_71
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
240
238
236
234
232
230
228

Reconstruction error




Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
SAMPLE-SBS31_445_1
SAMPLE-SBS31_445_10
SAMPLE-SBS31_445_100
SAMPLE-SBS31_445_11
SAMPLE-SBS31_445_12
SAMPLE-SBS31_445_13
SAMPLE-SBS31_445_14
SAMPLE-SBS31_445_15
SAMPLE-SBS31_445_16
SAMPLE-SBS31_445_17
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
SAMPLE-SBS31_445_33
SAMPLE-SBS31_445_34
SAMPLE-SBS31_445_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
245
240
235
230


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
238
236
234
232
230
228
SAMPLE-SBS31_445_36
SAMPLE-SBS31_445_37
SAMPLE-SBS31_445_38
SAMPLE-SBS31_445_39
SAMPLE-SBS31_445_4
SAMPLE-SBS31_445_40
SAMPLE-SBS31_445_41
SAMPLE-SBS31_445_42
SAMPLE-SBS31_445_43
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SAMPLE-SBS31_445_49
SAMPLE-SBS31_445_5
SAMPLE-SBS31_445_50
SAMPLE-SBS31_445_51
SAMPLE-SBS31_445_52
SAMPLE-SBS31_445_53
SAMPLE-SBS31_445_54
SAMPLE-SBS31_445_55
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SAMPLE-SBS31_445_57
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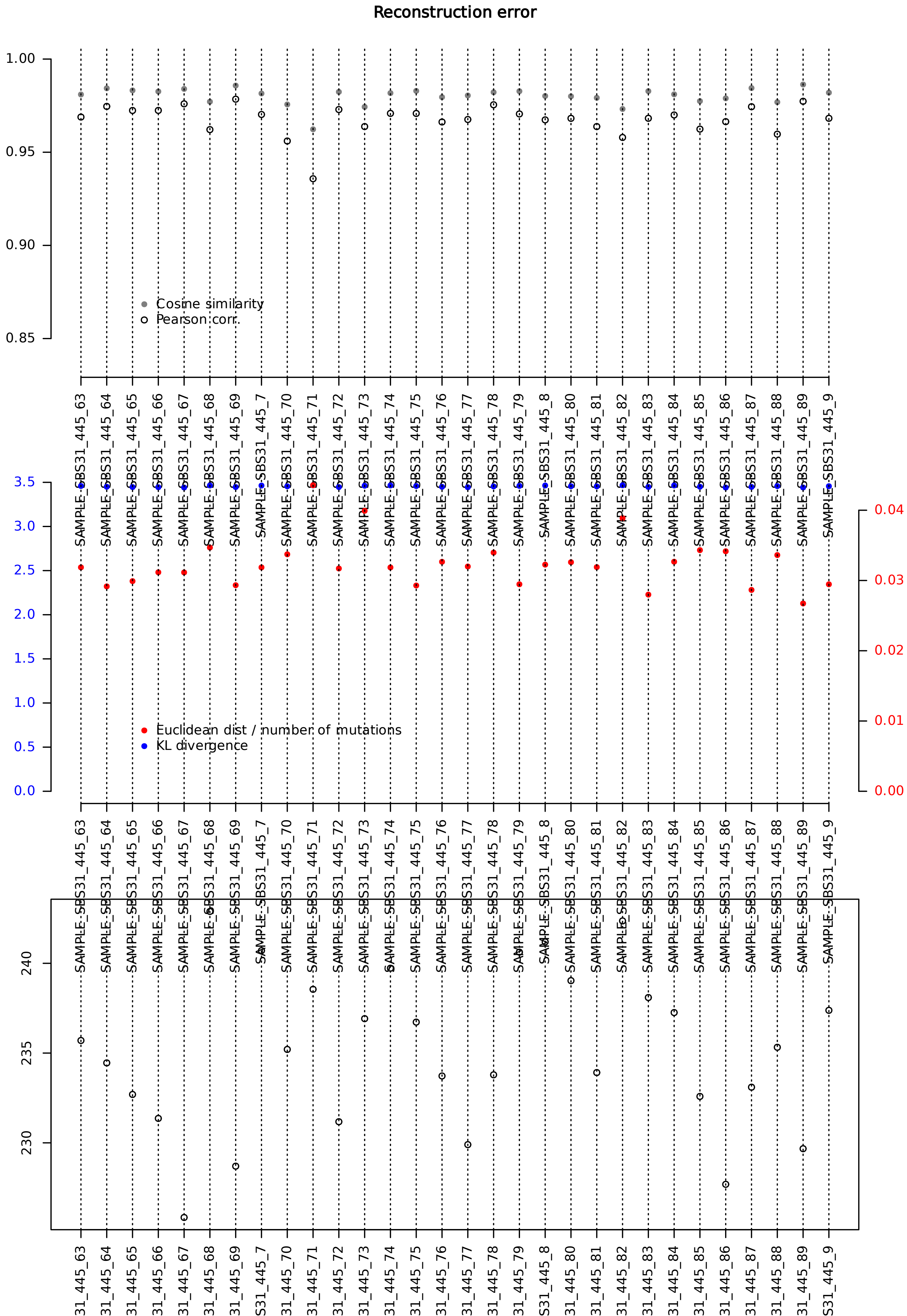
SAMPLE-SBS31_445_61
SAMPLE-SBS31_445_62


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
SAMPLE-SBS31_445_63
SAMPLE-SBS31_445_64
SAMPLE-SBS31_445_65
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
SAMPLE-SBS31_445_72
SAMPLE-SBS31_445_73
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SAMPLE-SBS31_445_75
SAMPLE-SBS31_445_76
SAMPLE-SBS31_445_77
SAMPLE-SBS31_445_78
SAMPLE-SBS31_445_79
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SAMPLE-SBS31_445_81
SAMPLE-SBS31_445_82
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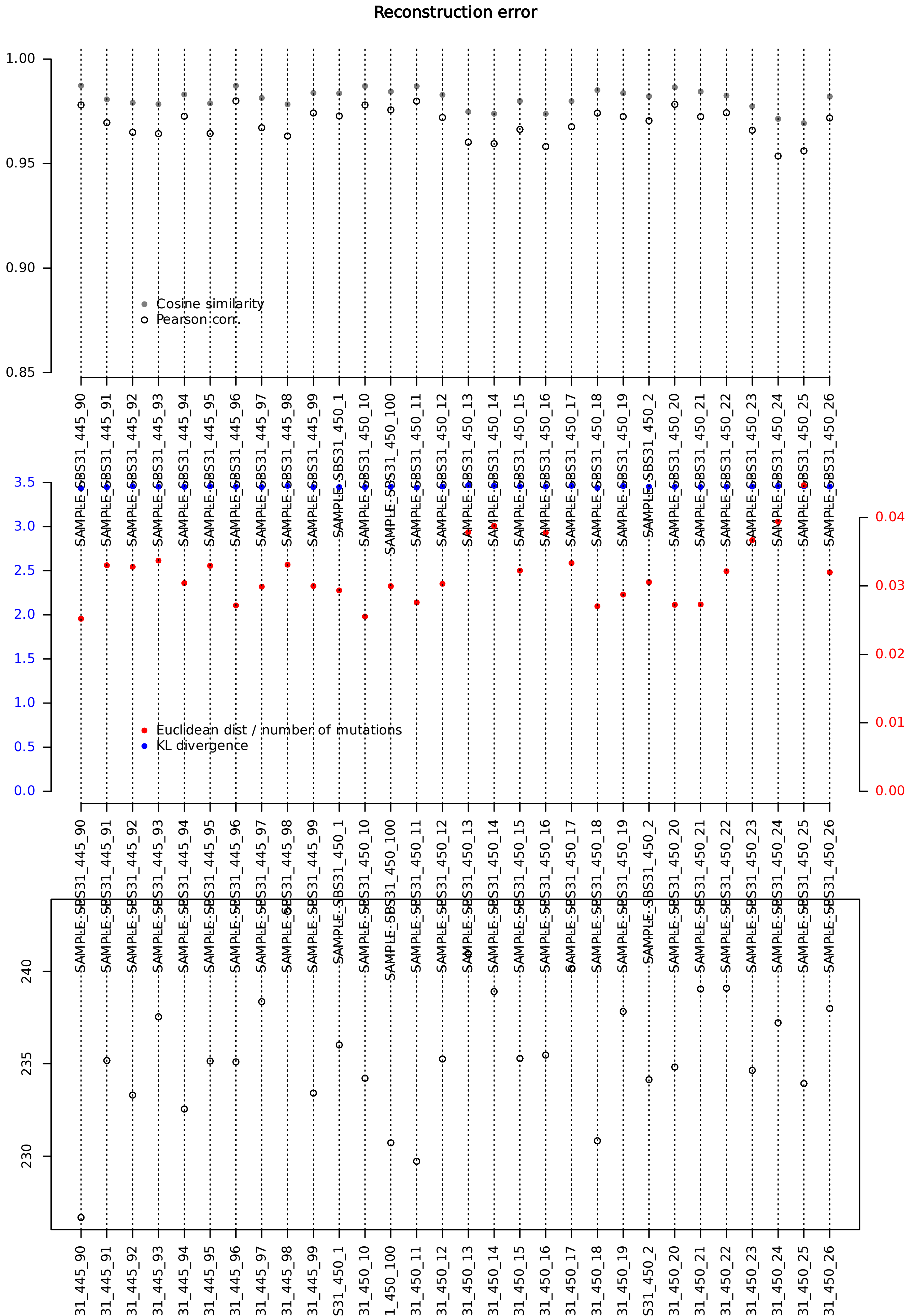
SAMPLE-SBS31_445_84
SAMPLE-SBS31_445_85
SAMPLE-SBS31_445_86
SAMPLE-SBS31_445_87
SAMPLE-SBS31_445_88
SAMPLE-SBS31_445_89
SAMPLE-SBS31_445_9
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
240
235
230


Reconstruction error
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0.95
0.90
0.85
Cosine similarity
Pearson corr.
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
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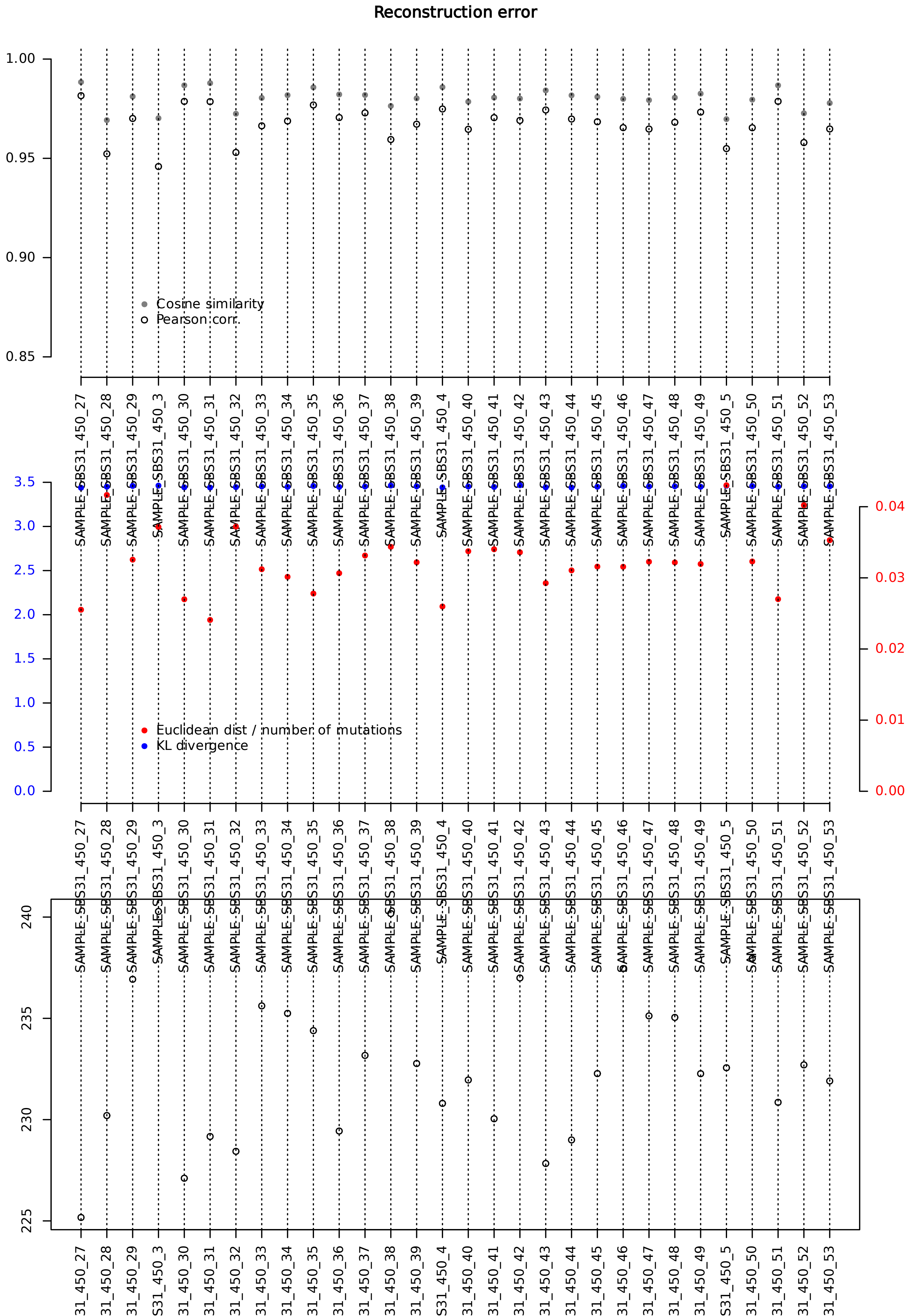
SAMPLE-SBS31_445_98
SAMPLE-SBS31_445_99
SAMPLE-SBS31_450_1
SAMPLE-SBS31_450_10
SAMPLE-SBS31_450_100
SAMPLE-SBS31_450_11
SAMPLE-SBS31_450_12
SAMPLE-SBS31_450_13
SAMPLE-SBS31_450_14
SAMPLE-SBS31_450_15
SAMPLE-SBS31_450_16
SAMPLE-SBS31_450_17
SAMPLE-SBS31_450_18
SAMPLE-SBS31_450_19
SAMPLE-SBS31_450_2
SAMPLE-SBS31_450_20
SAMPLE-SBS31_450_21
SAMPLE-SBS31_450_22
SAMPLE-SBS31_450_23
SAMPLE-SBS31_450_24
SAMPLE-SBS31_450_25
SAMPLE-SBS31_450_26
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


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_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
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SAMPLE-SBS31_450_37
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SAMPLE-SBS31_450_40
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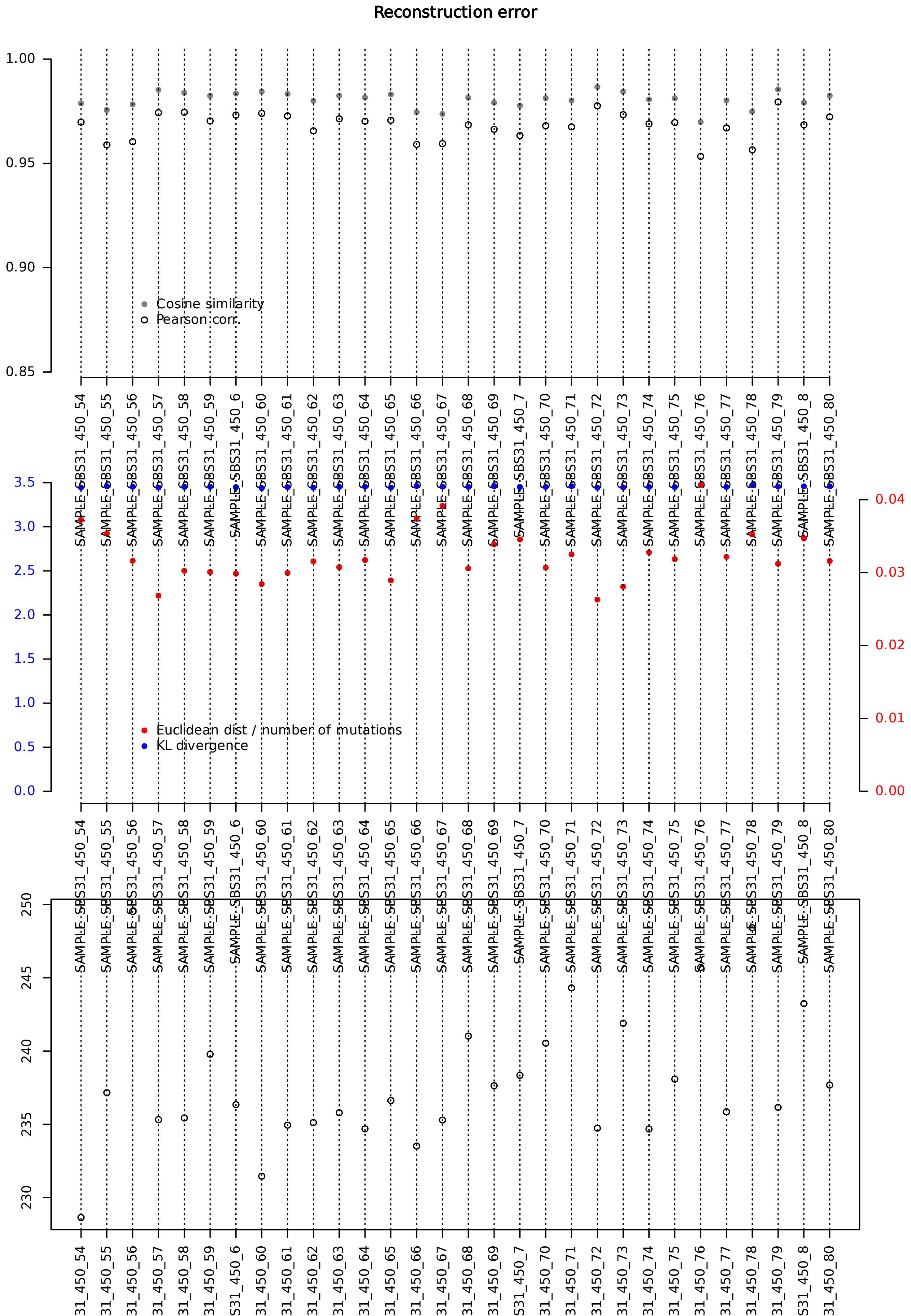
SAMPLE-SBS31_450_52
SAMPLE-SBS31_450_53


Reconstruction error
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0.95
0.90
0.85
Cosine similarity
Pearson corr.
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SAMPLE-SBS31_450_55
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SAMPLE-SBS31_450_57
SAMPLE-SBS31_450_58
SAMPLE-SBS31_450_59
SAMPLE-SBS31_450_6
SAMPLE-SBS31_450_60
SAMPLE-SBS31_450_61
SAMPLE-SBS31_450_62
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SAMPLE-SBS31_450_65
SAMPLE-SBS31_450_66
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SAMPLE-SBS31_450_69
SAMPLE-SBS31_450_7
SAMPLE-SBS31_450_70
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SAMPLE-SBS31_450_72
SAMPLE-SBS31_450_73
SAMPLE-SBS31_450_74
SAMPLE-SBS31_450_75
SAMPLE-SBS31_450_76
SAMPLE-SBS31_450_77
SAMPLE-SBS31_450_78
SAMPLE-SBS31_450_79
SAMPLE-SBS31_450_8
SAMPLE-SBS31_450_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
SAMPLE-SBS31_450_54
SAMPLE-SBS31_450_55
SAMPLE-SBS31_450_56
SAMPLE-SBS31_450_57
SAMPLE-SBS31_450_58
SAMPLE-SBS31_450_59
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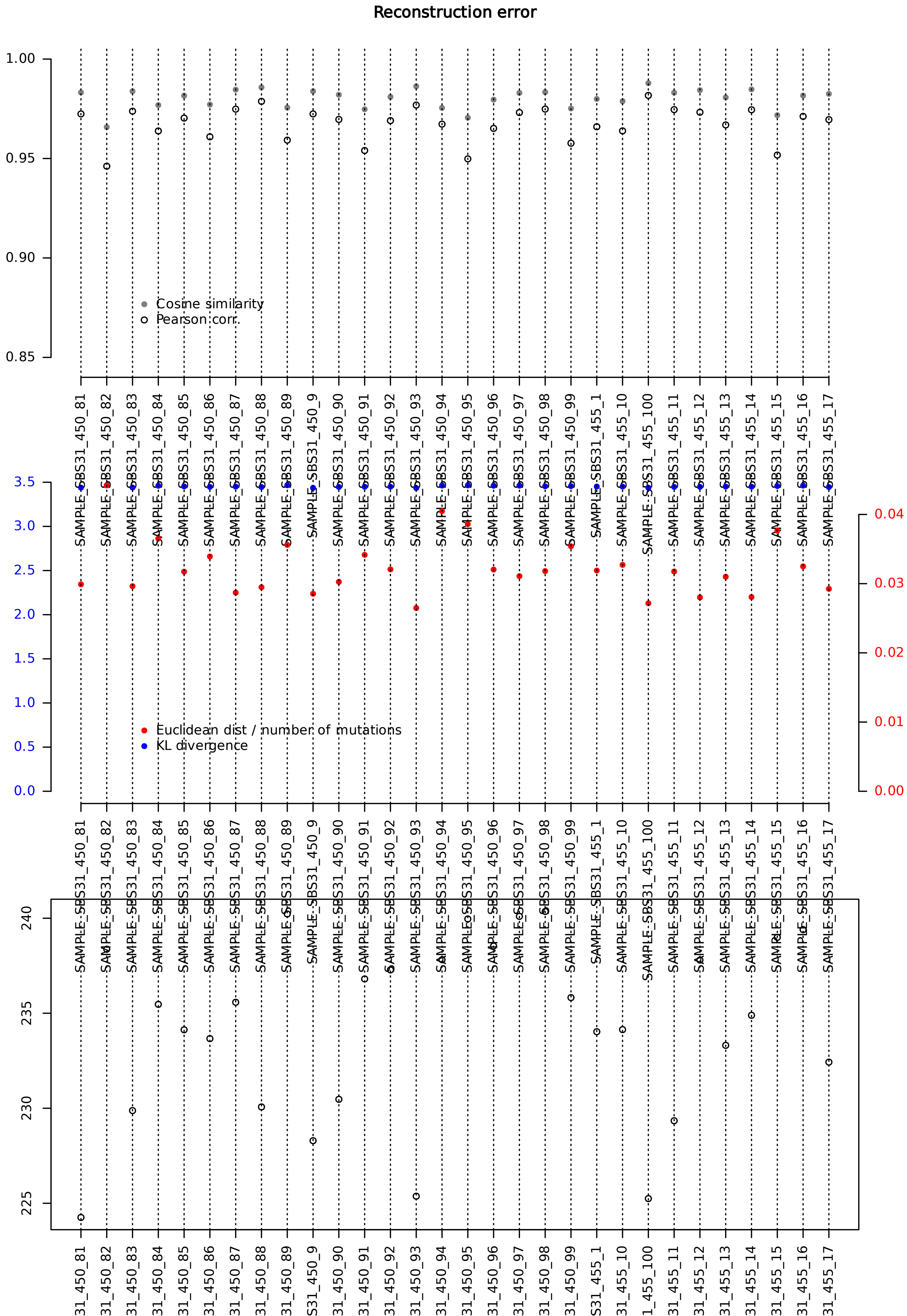
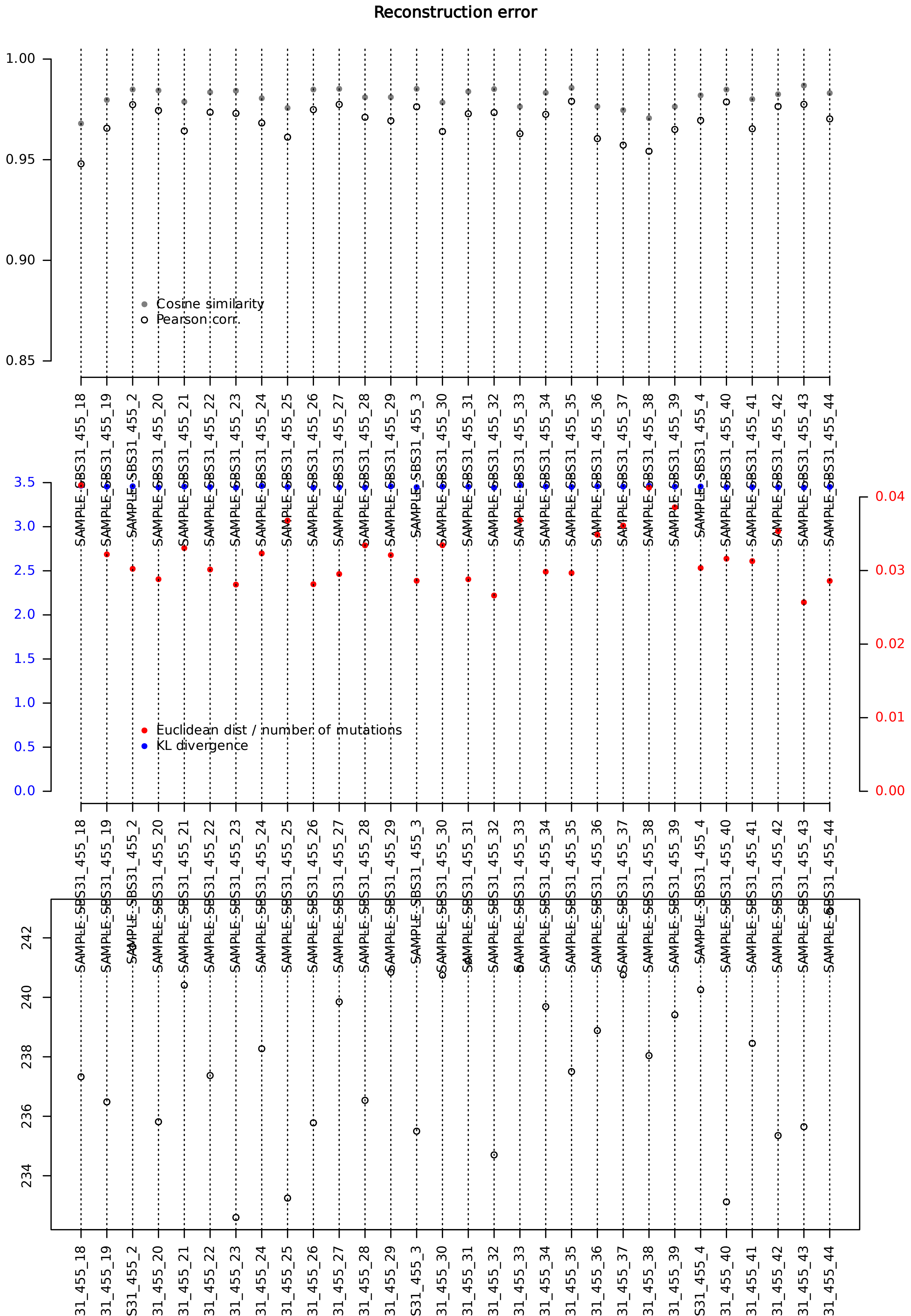
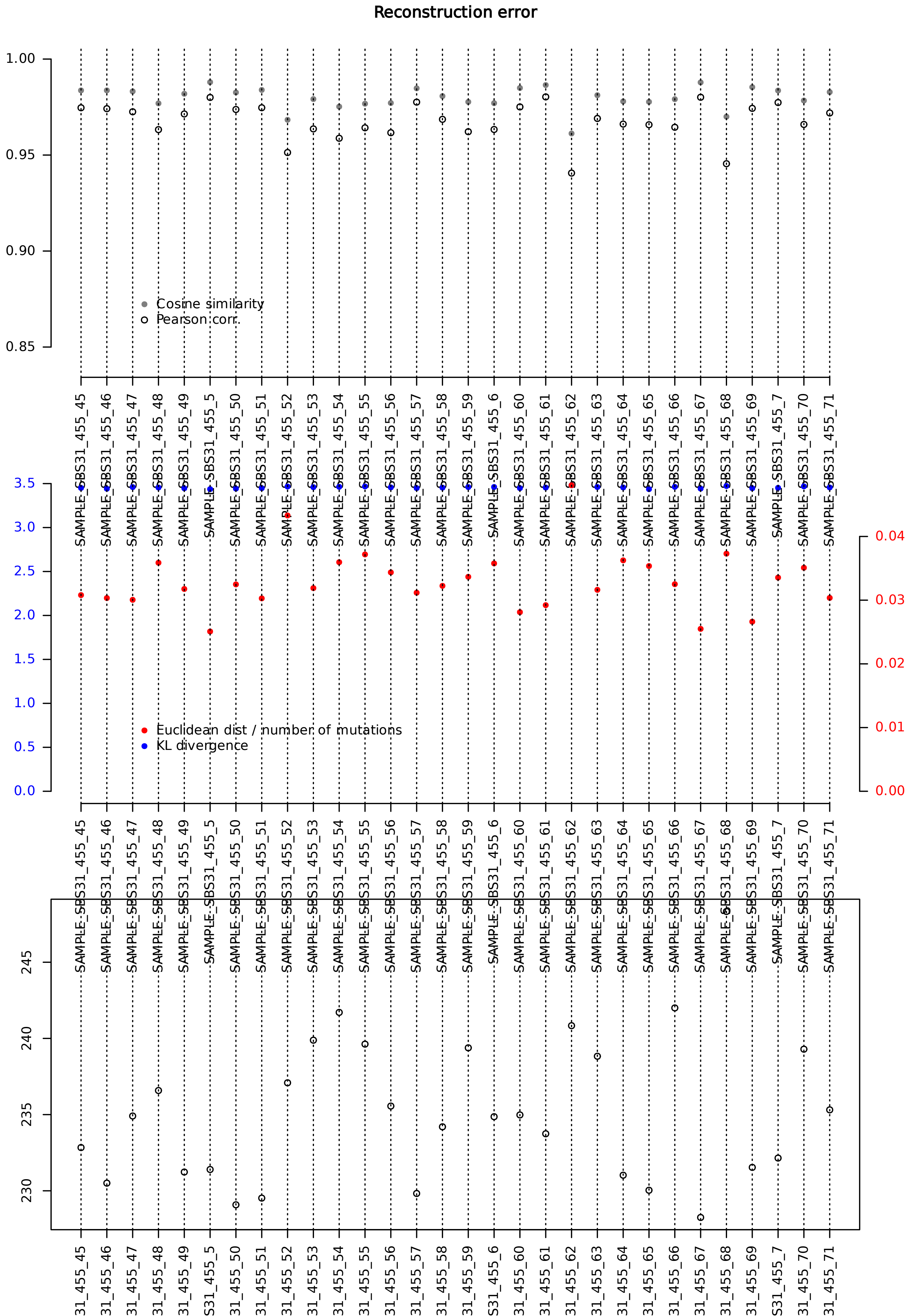
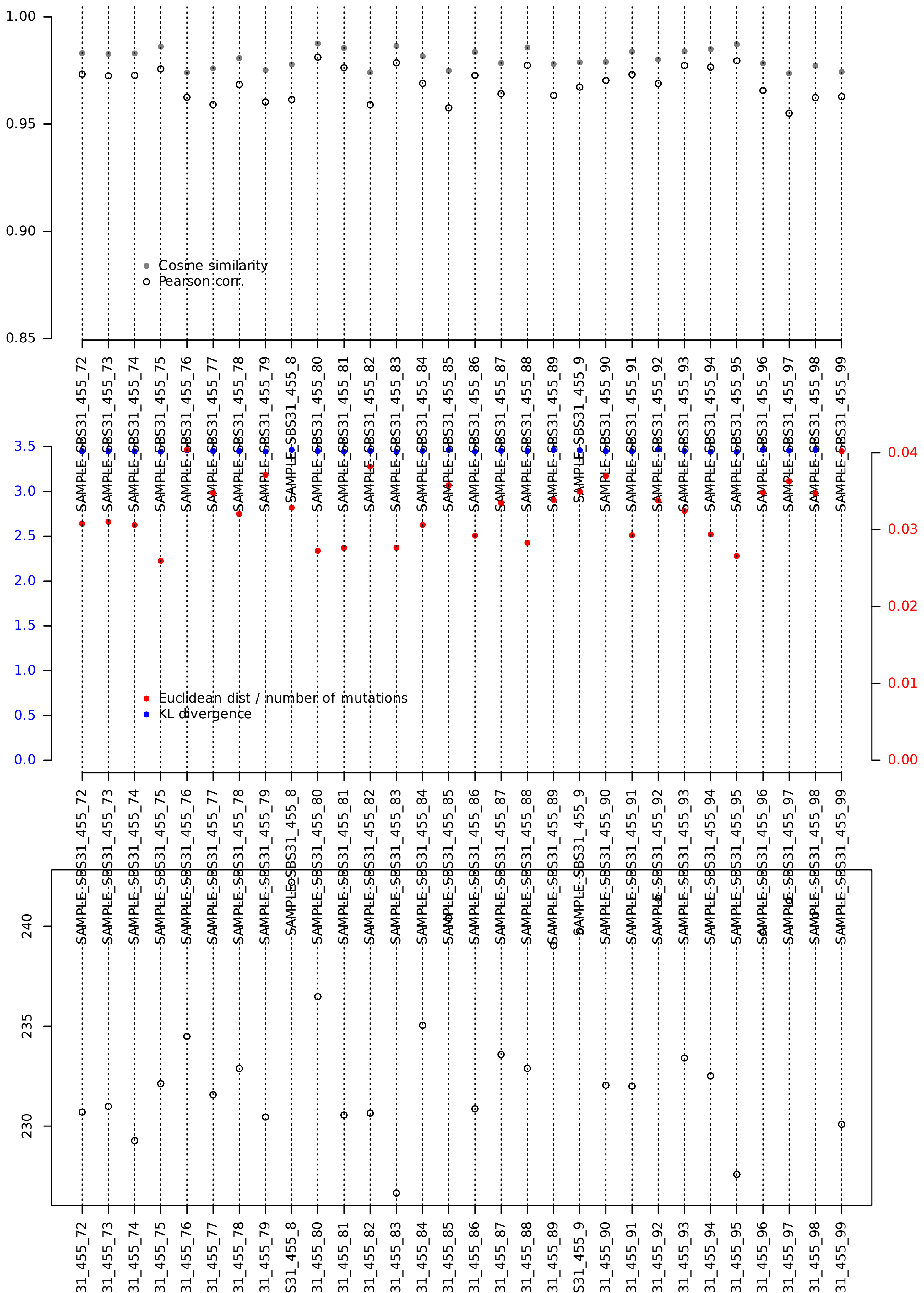
SAMPLE-SBS31_450_72
SAMPLE-SBS31_450_73
SAMPLE-SBS31_450_74
SAMPLE-SBS31_450_75
SAMPLE-SBS31_450_76
SAMPLE-SBS31_450_77
SAMPLE-SBS31_450_78
SAMPLE-SBS31_450_79
SAMPLE-SBS31_450_8
SAMPLE-SBS31_450_80
250
245
240
235
230
31_450_54
31_450_55
31_450_56
31_450_57
31_450_58
31_450_59
S31_450_6
31_450_60
31_450_61
31_450_62
31_450_63
31_450_64
31_450_65
31_450_66
31_450_67
31_450_68
31_450_69
S31_450_7
31_450_70
31_450_71
31_450_72
31_450_73
31_450_74
31_450_75
31_450_76
31_450_77
31_450_78
31_450_79
S31_450_8
31_450_80

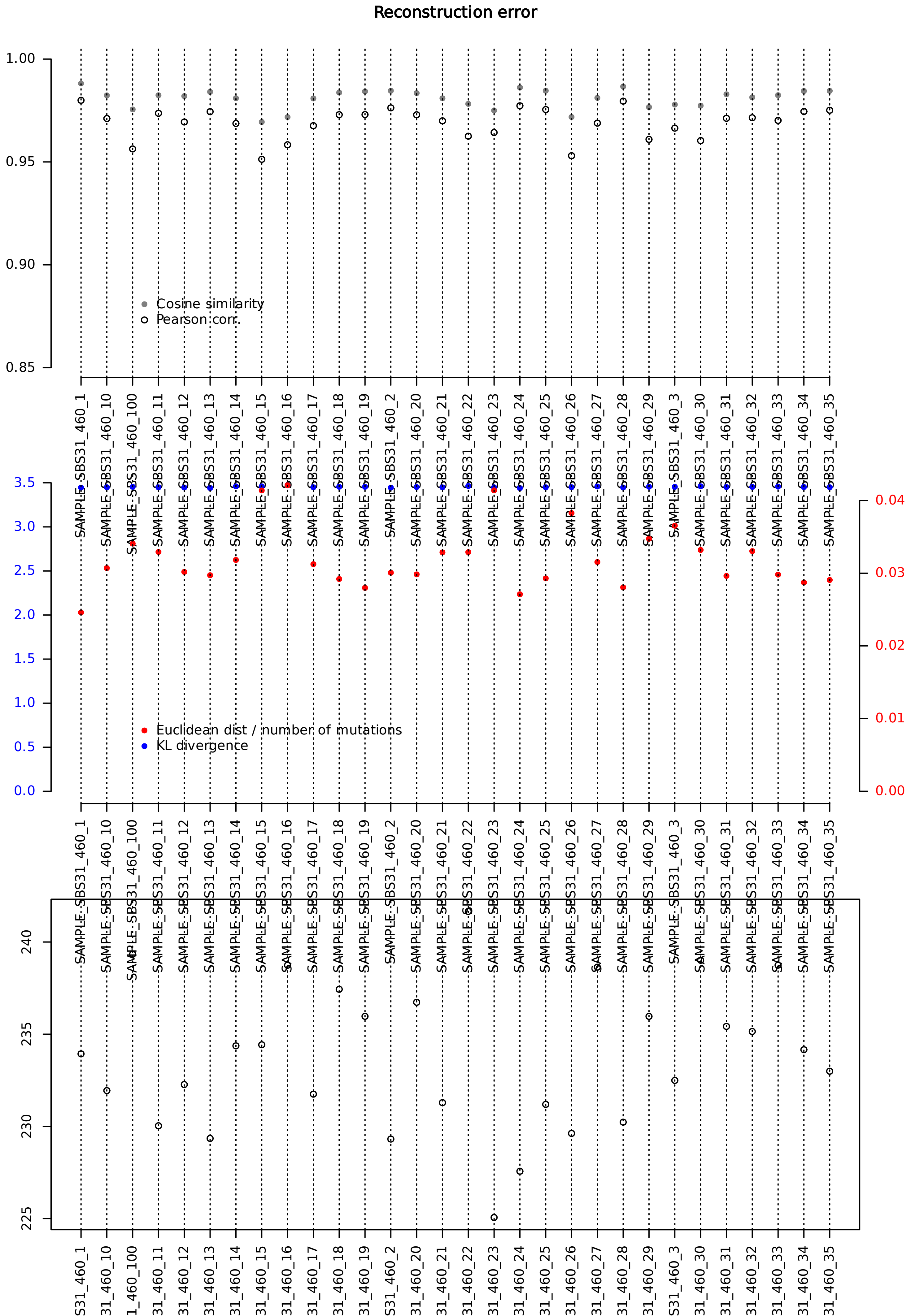

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
240
235
230
225
SAMPLE-SBS31_450_81
SAMPLE-SBS31_450_82
SAMPLE-SBS31_450_83
SAMPLE-SBS31_450_84
SAMPLE-SBS31_450_85
SAMPLE-SBS31_450_86
SAMPLE-SBS31_450_87
SAMPLE-SBS31_450_88
SAMPLE-SBS31_450_89
SAMPLE-SBS31_450_9
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


Reconstruction error
1.00
0.95
0.90
0.85
● Cosine similarity
○ Pearson corr.
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
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
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
242
240
238
236
234

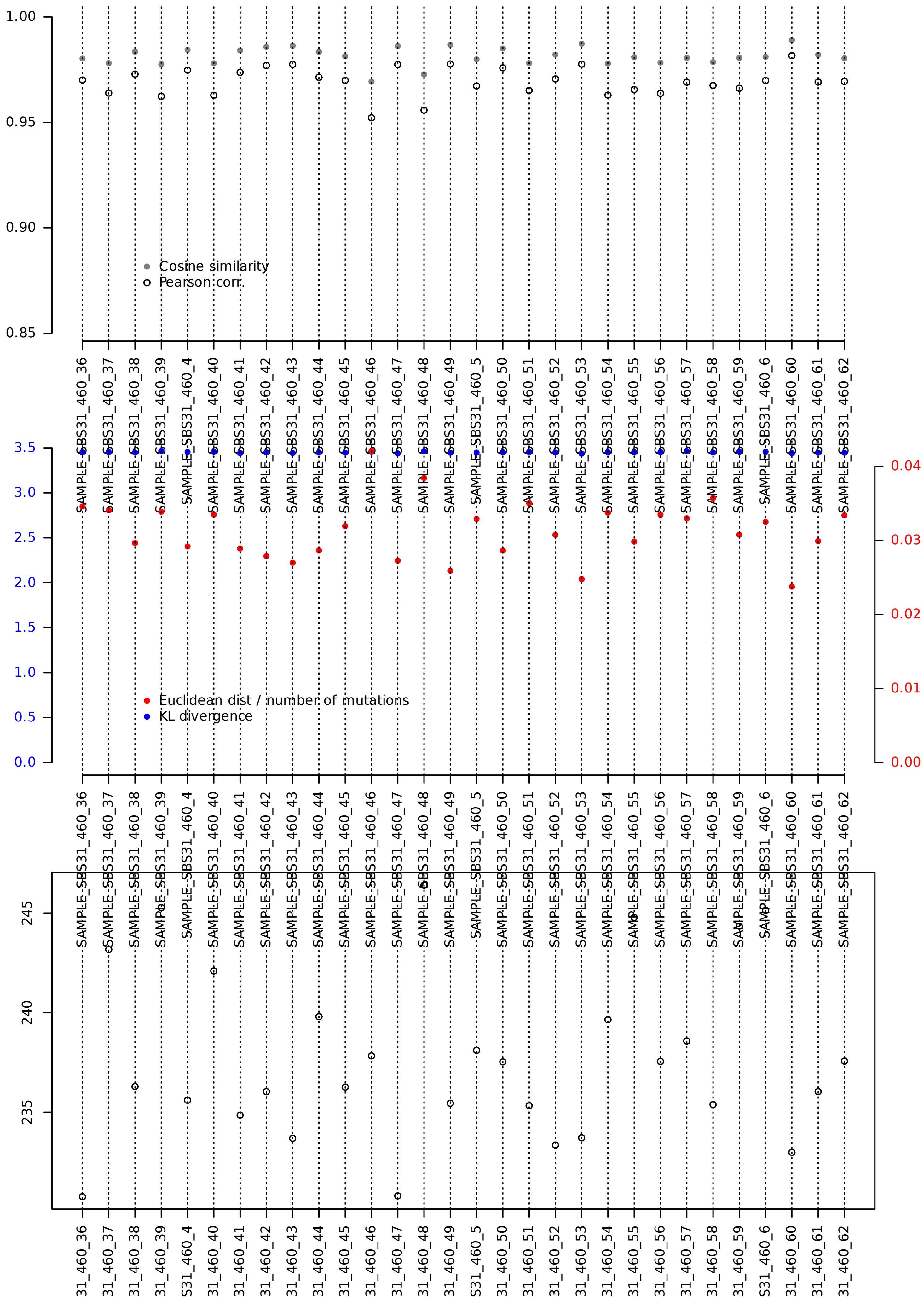

Reconstruction error
1.00
0.95
0.90
0.85
● Cosine similarity
○ Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
● Euclidean dist / number of mutations
● KL divergence
245
240
235
230
SAMPLE-SBS31_455_45
SAMPLE-SBS31_455_46
SAMPLE-SBS31_455_47
SAMPLE-SBS31_455_48
SAMPLE-SBS31_455_49
SAMPLE-SBS31_455_5
SAMPLE-SBS31_455_50
SAMPLE-SBS31_455_51
SAMPLE-SBS31_455_52
SAMPLE-SBS31_455_53
SAMPLE-SBS31_455_54
SAMPLE-SBS31_455_55
SAMPLE-SBS31_455_56
SAMPLE-SBS31_455_57
SAMPLE-SBS31_455_58
SAMPLE-SBS31_455_59
SAMPLE-SBS31_455_6
SAMPLE-SBS31_455_60
SAMPLE-SBS31_455_61
SAMPLE-SBS31_455_62
SAMPLE-SBS31_455_63
SAMPLE-SBS31_455_64
SAMPLE-SBS31_455_65
SAMPLE-SBS31_455_66
SAMPLE-SBS31_455_67
SAMPLE-SBS31_455_68
SAMPLE-SBS31_455_69
SAMPLE-SBS31_455_7
SAMPLE-SBS31_455_70
SAMPLE-SBS31_455_71

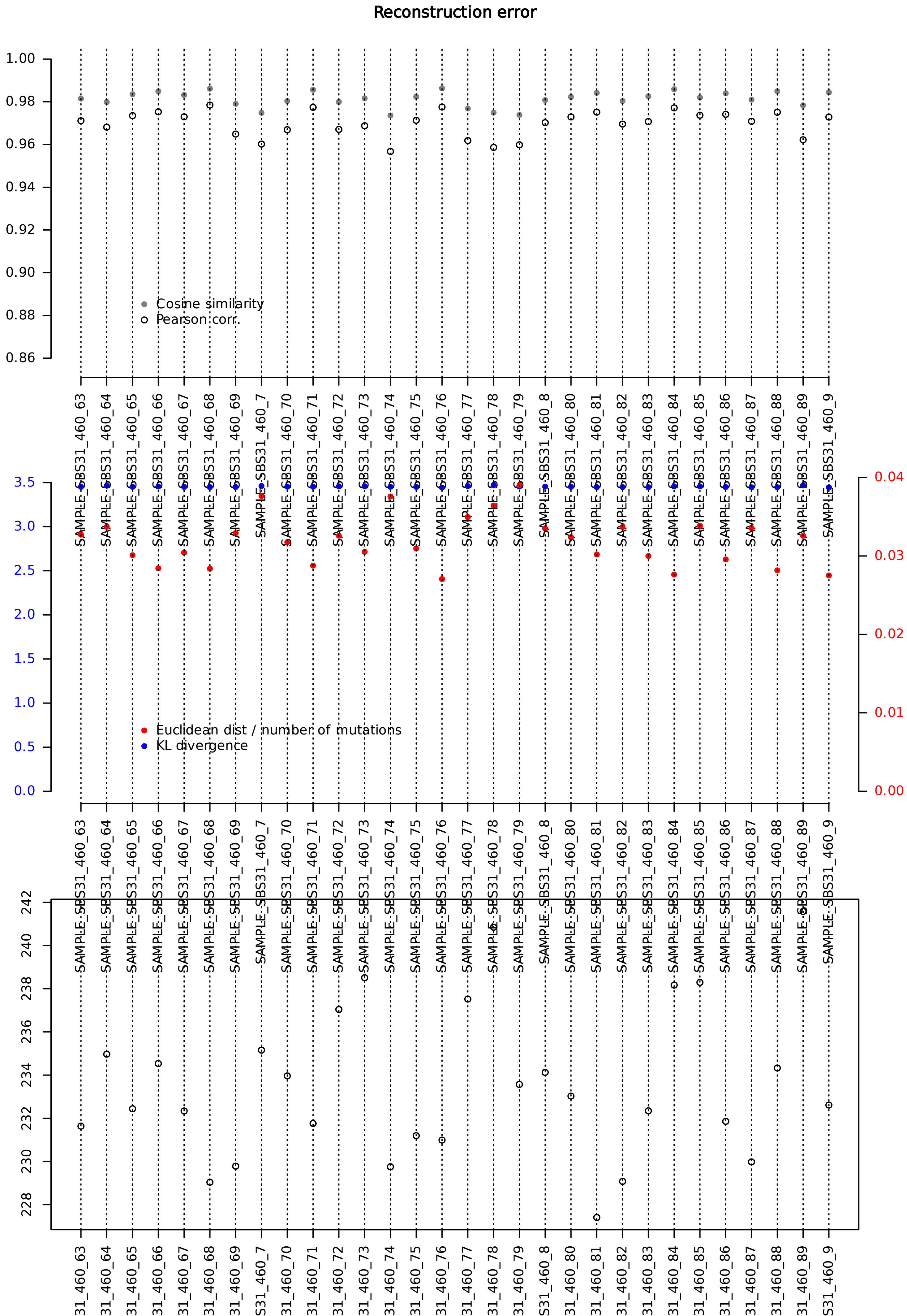
Reconstruction error

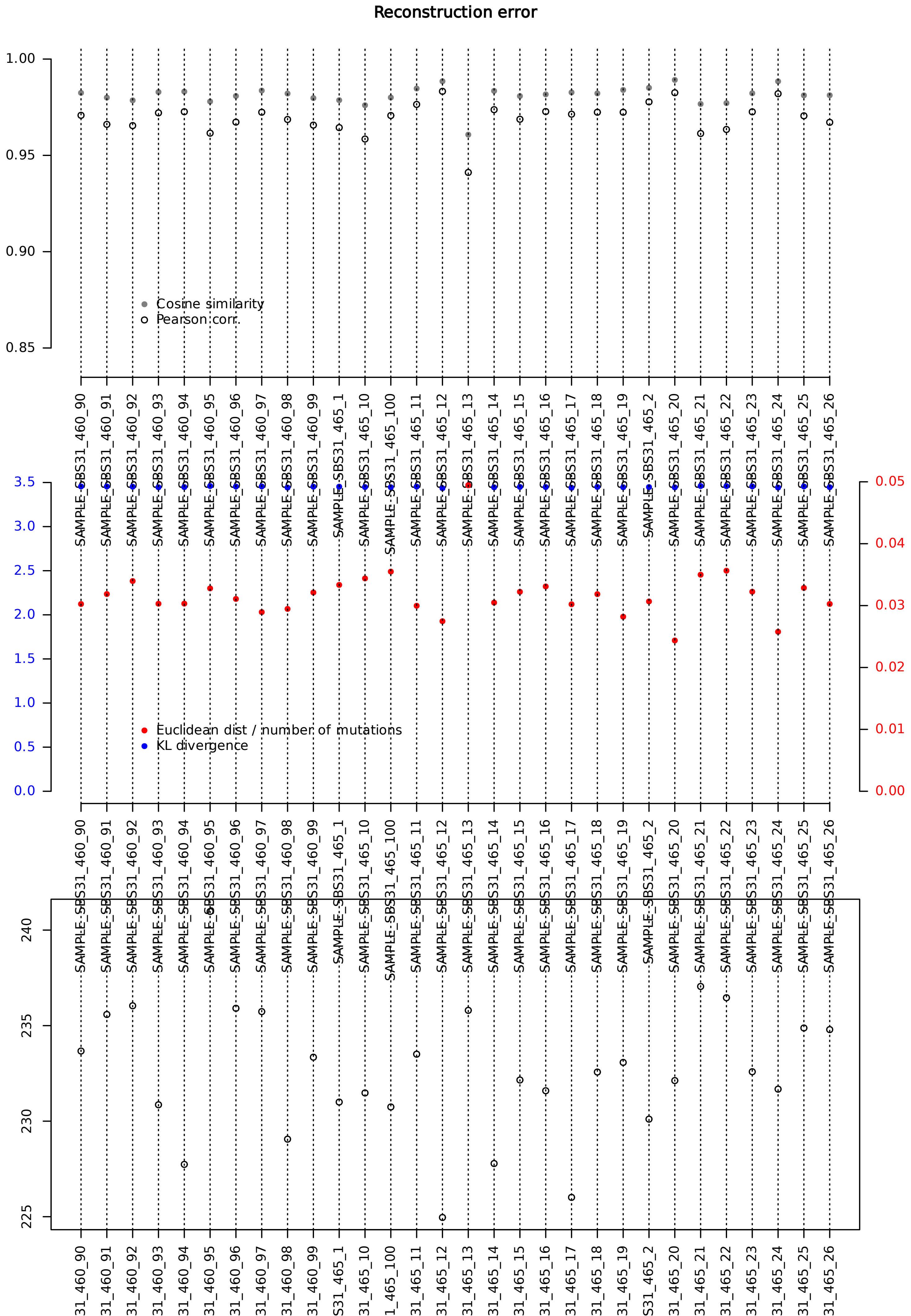


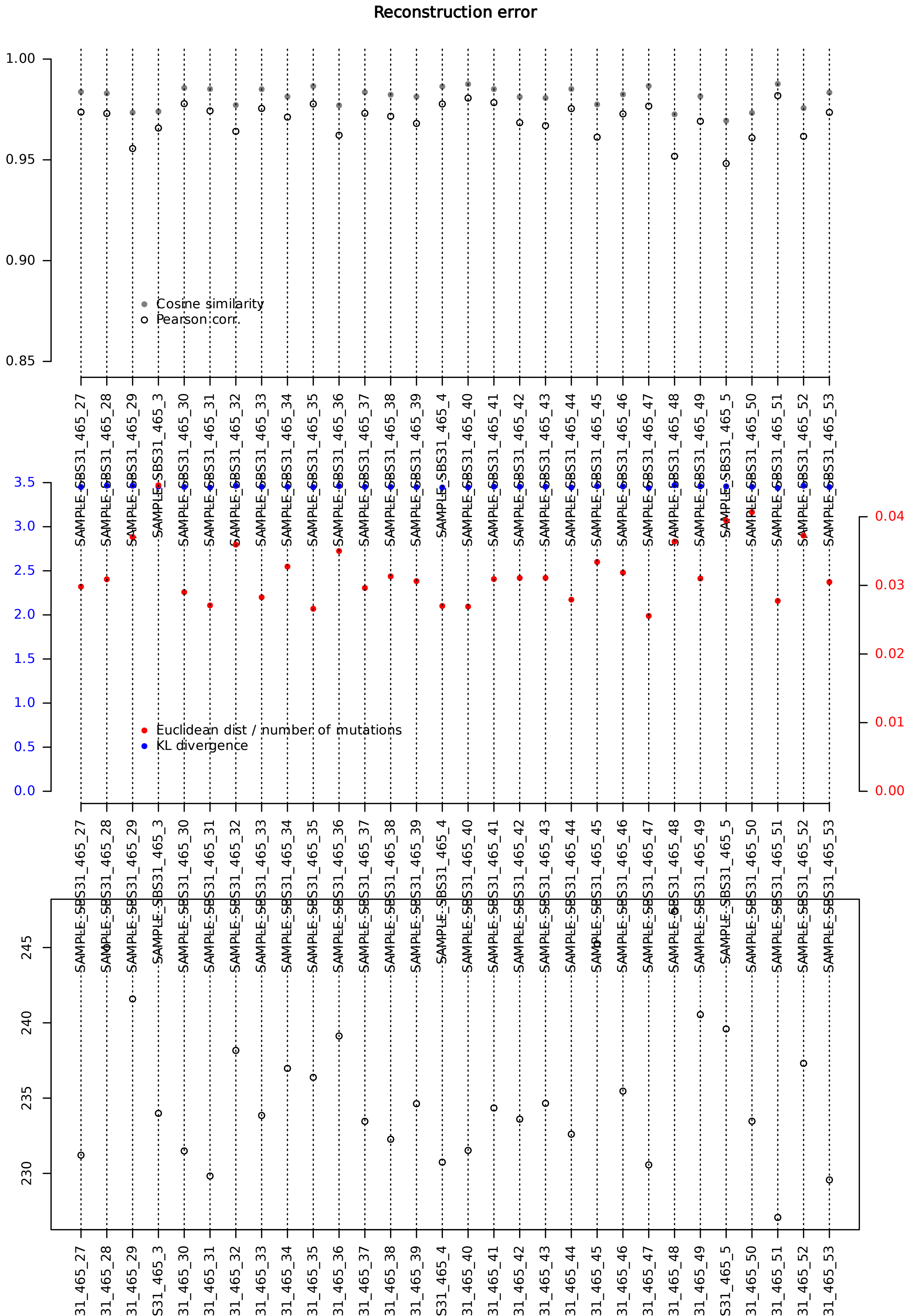

Reconstruction error
1.00
0.95
0.90
0.85
● Cosine similarity
○ Pearson corr.
SAMPLE-SBS31_460_1
SAMPLE-SBS31_460_10
SAMPLE-SBS31_460_100
SAMPLE-SBS31_460_11
SAMPLE-SBS31_460_12
SAMPLE-SBS31_460_13
SAMPLE-SBS31_460_14
SAMPLE-SBS31_460_15
SAMPLE-SBS31_460_16
SAMPLE-SBS31_460_17
SAMPLE-SBS31_460_18
SAMPLE-SBS31_460_19
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
240
235
230
225

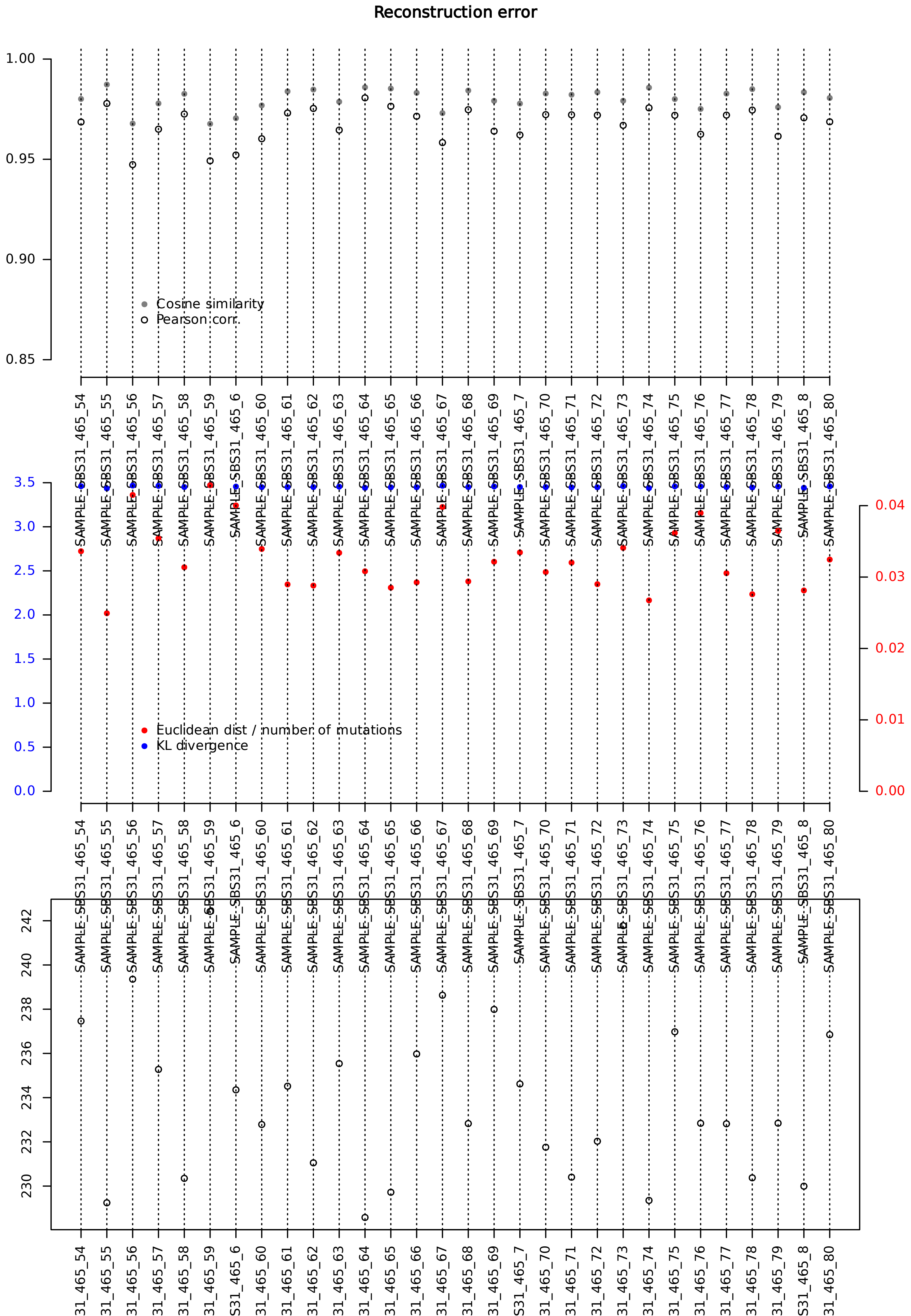
Reconstruction error

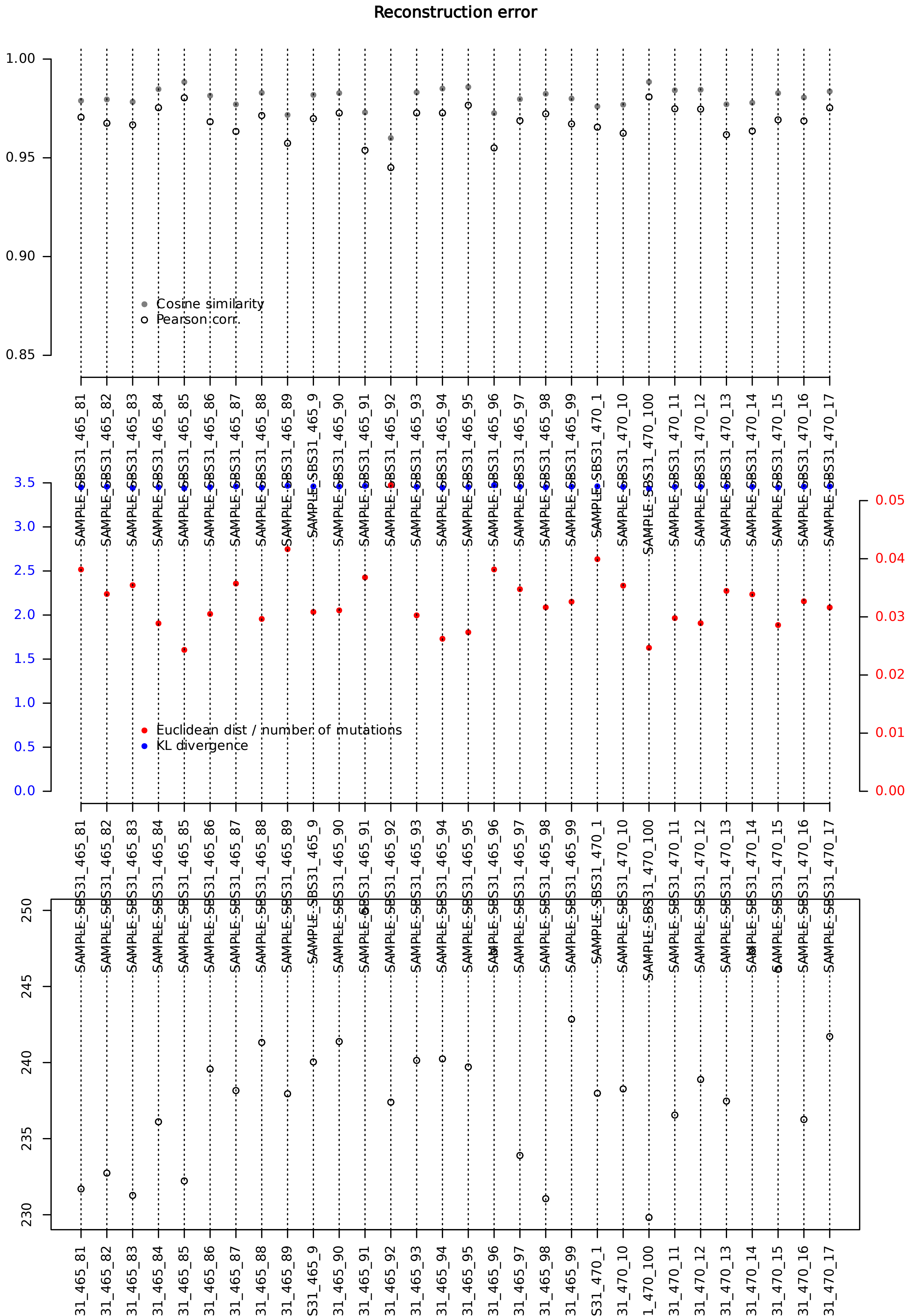


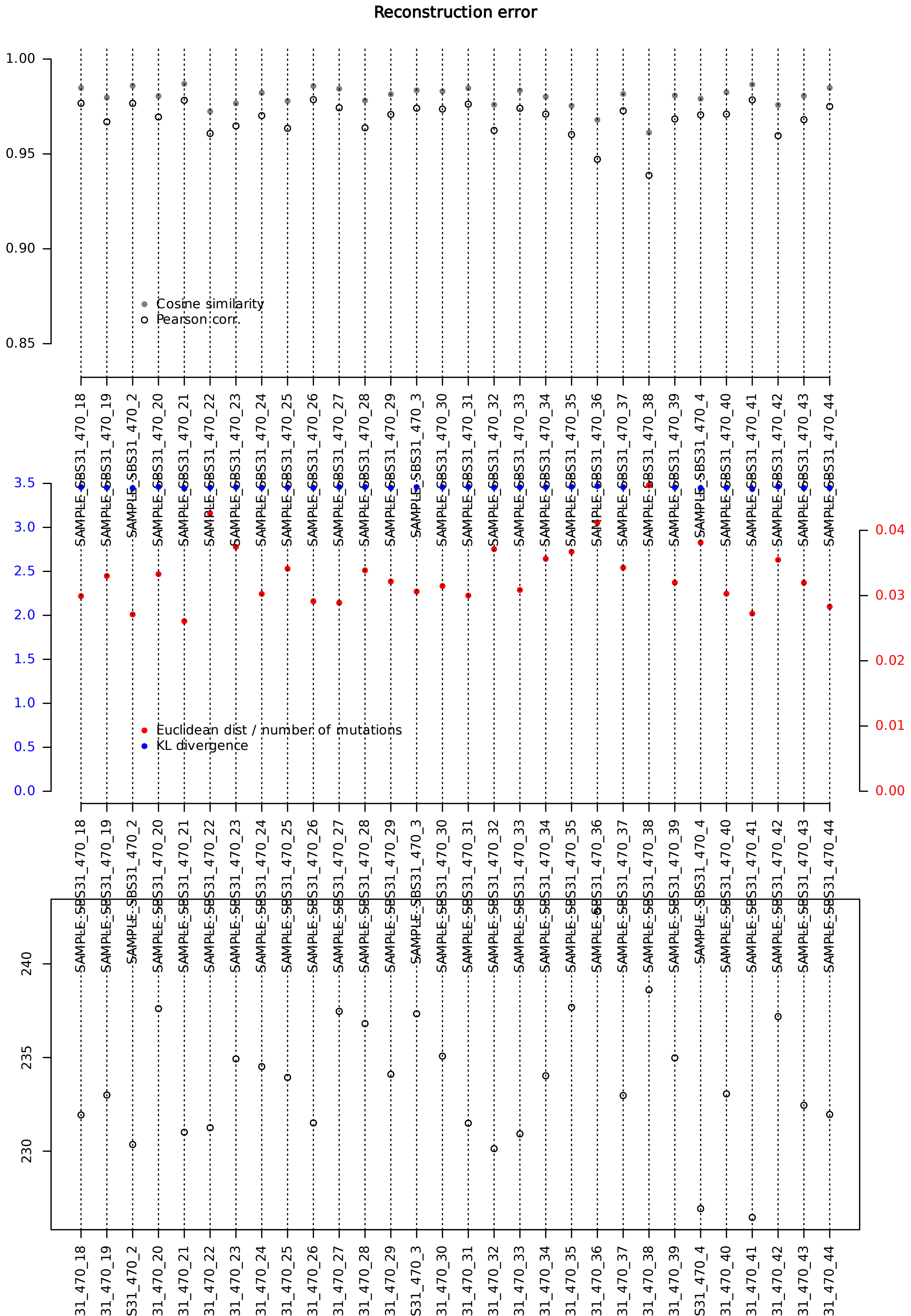

Reconstruction error
1.00
0.98
0.96
0.94
0.92
0.90
0.88
0.86
Cosine similarity
Pearson corr.
SAMPLE-SBS31_460_63
SAMPLE-SBS31_460_64
SAMPLE-SBS31_460_65
SAMPLE-SBS31_460_66
SAMPLE-SBS31_460_67
SAMPLE-SBS31_460_68
SAMPLE-SBS31_460_69
SAMPLE-SBS31_460_7
SAMPLE-SBS31_460_70
SAMPLE-SBS31_460_71
SAMPLE-SBS31_460_72
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
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
242
240
238
236
234
232
230
228


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
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
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


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
245
240
235
230
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


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
242
240
238
236
234
232
230
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
0.05
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
250
245
240
235
230
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
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
SAMPLE-SBS31_470_18
SAMPLE-SBS31_470_19
SAMPLE-SBS31_470_2
SAMPLE-SBS31_470_20
SAMPLE-SBS31_470_21
SAMPLE-SBS31_470_22
SAMPLE-SBS31_470_23
SAMPLE-SBS31_470_24
SAMPLE-SBS31_470_25
SAMPLE-SBS31_470_26
SAMPLE-SBS31_470_27
SAMPLE-SBS31_470_28
SAMPLE-SBS31_470_29
SAMPLE-SBS31_470_3
SAMPLE-SBS31_470_30
SAMPLE-SBS31_470_31
SAMPLE-SBS31_470_32
SAMPLE-SBS31_470_33
SAMPLE-SBS31_470_34
SAMPLE-SBS31_470_35
SAMPLE-SBS31_470_36
SAMPLE-SBS31_470_37
SAMPLE-SBS31_470_38
SAMPLE-SBS31_470_39
SAMPLE-SBS31_470_4
SAMPLE-SBS31_470_40
SAMPLE-SBS31_470_41
SAMPLE-SBS31_470_42
SAMPLE-SBS31_470_43
SAMPLE-SBS31_470_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
31_470_18
31_470_19
S31_470_2
31_470_20
31_470_21
31_470_22
31_470_23
31_470_24
31_470_25
31_470_26
31_470_27
31_470_28
31_470_29
S31_470_3
31_470_30
31_470_31
31_470_32
31_470_33
31_470_34
31_470_35
31_470_36
31_470_37
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S31_470_4
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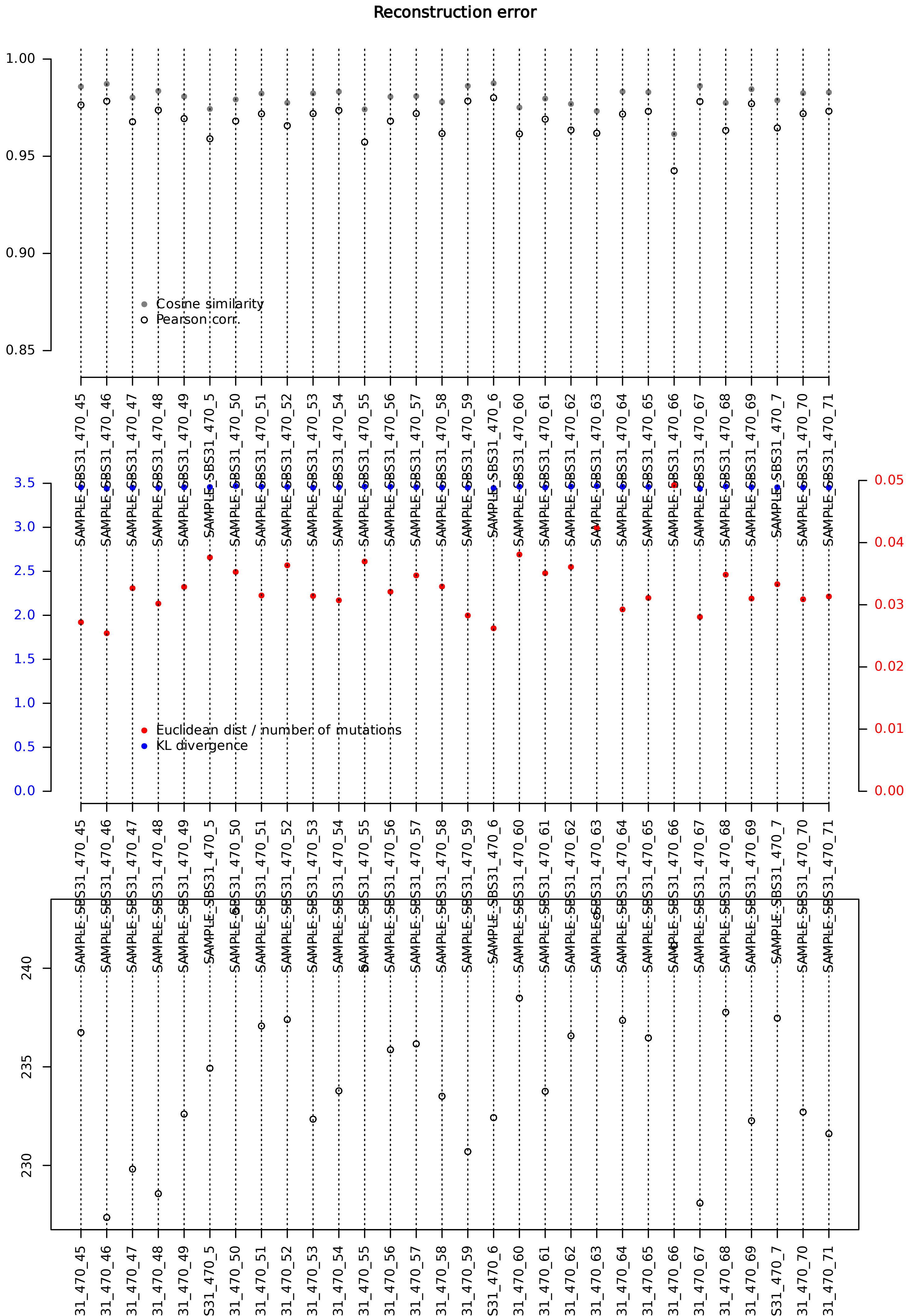
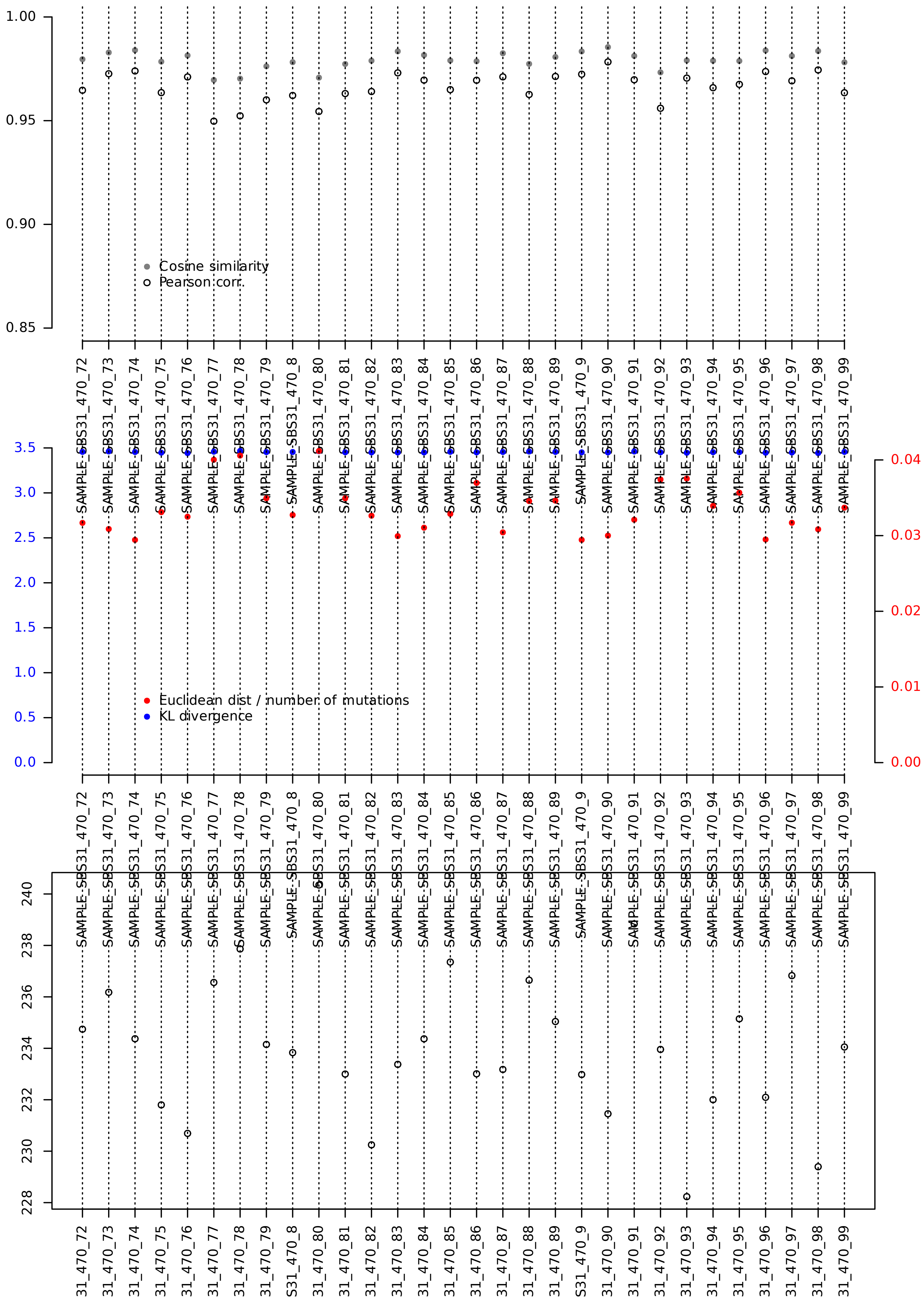
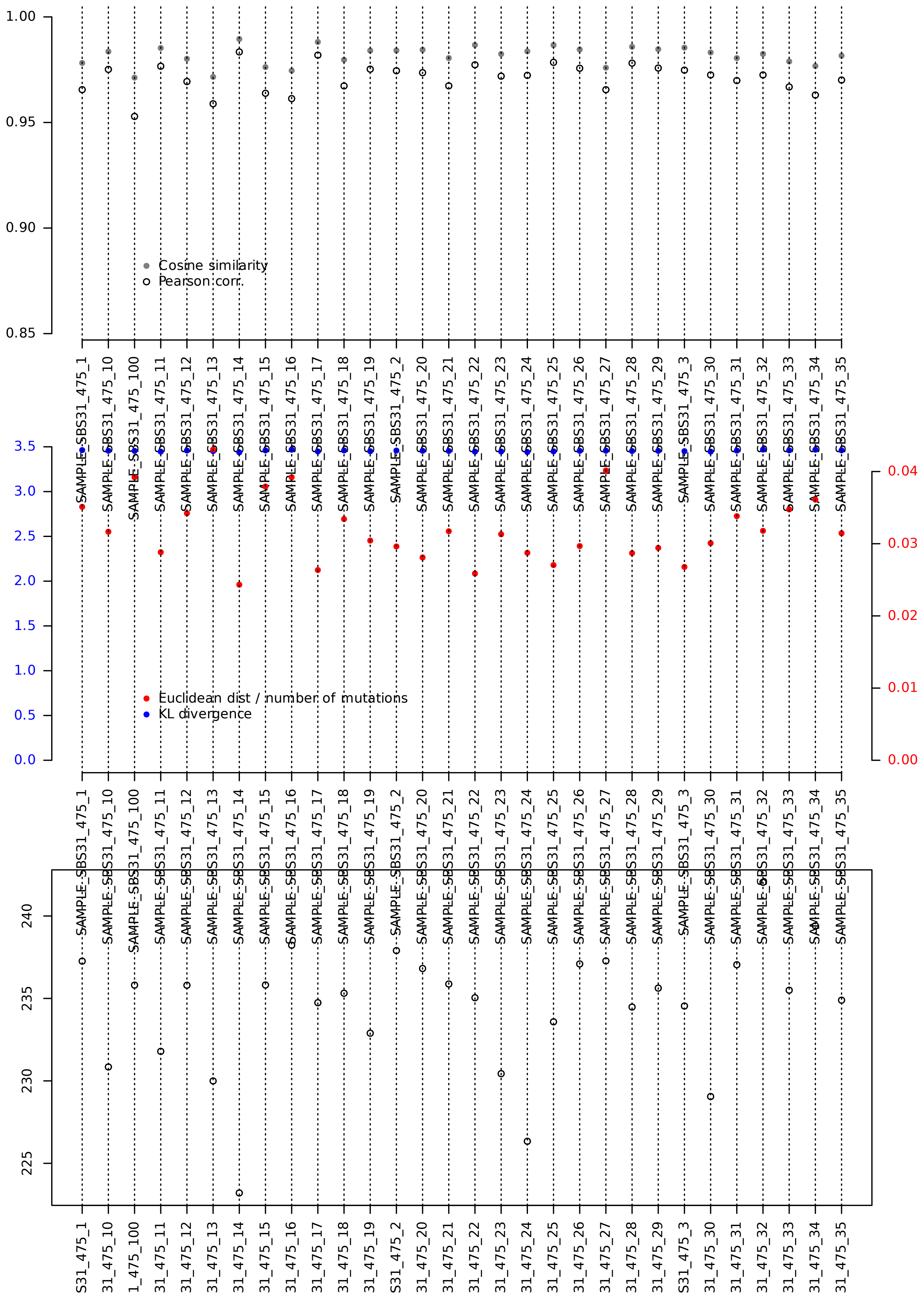
31_470_41
31_470_42
31_470_43
31_470_44

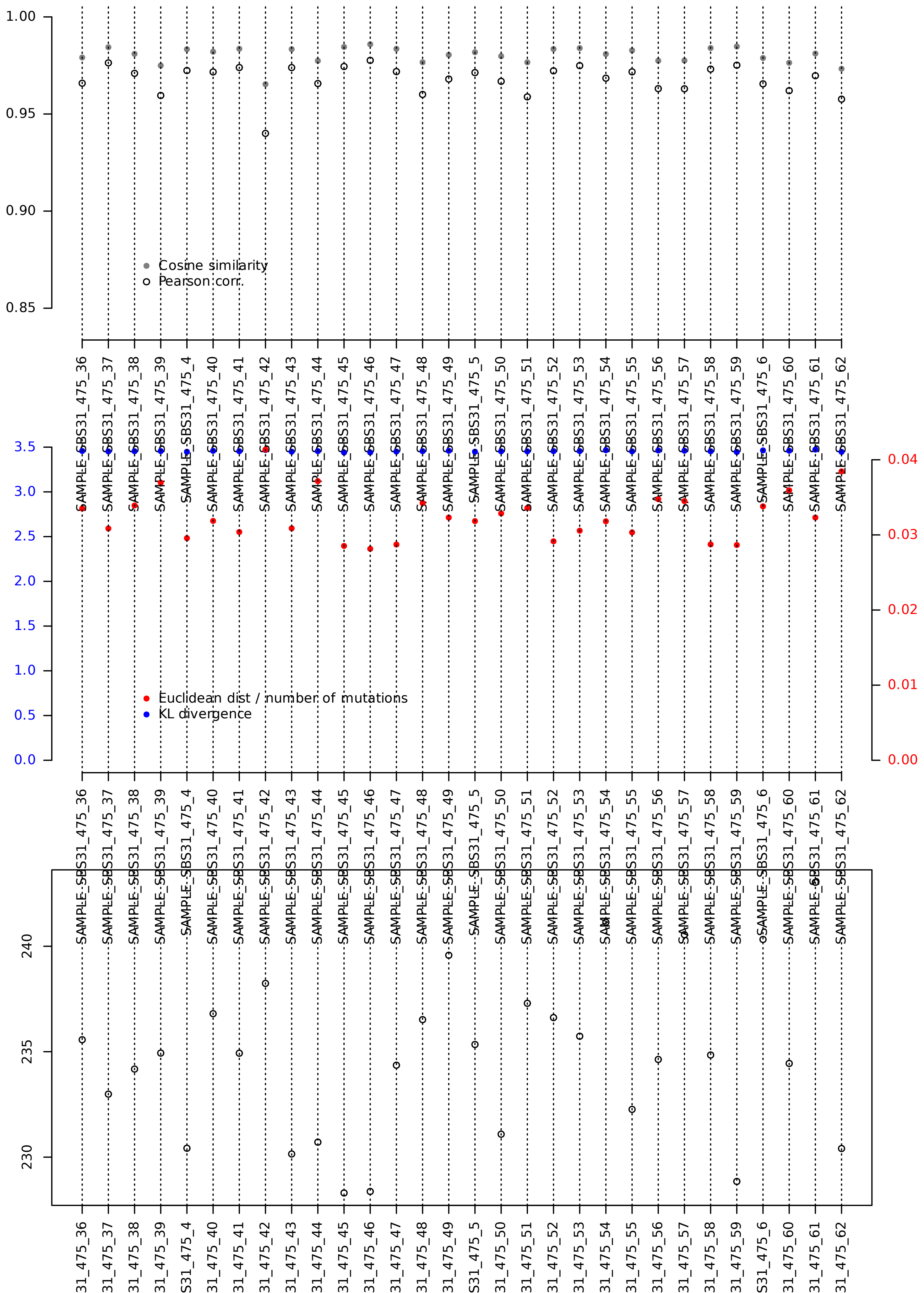

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.05
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
240
235
230
SAMPLE-SBS31_470_45
SAMPLE-SBS31_470_46
SAMPLE-SBS31_470_47
SAMPLE-SBS31_470_48
SAMPLE-SBS31_470_49
SAMPLE-SBS31_470_5
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

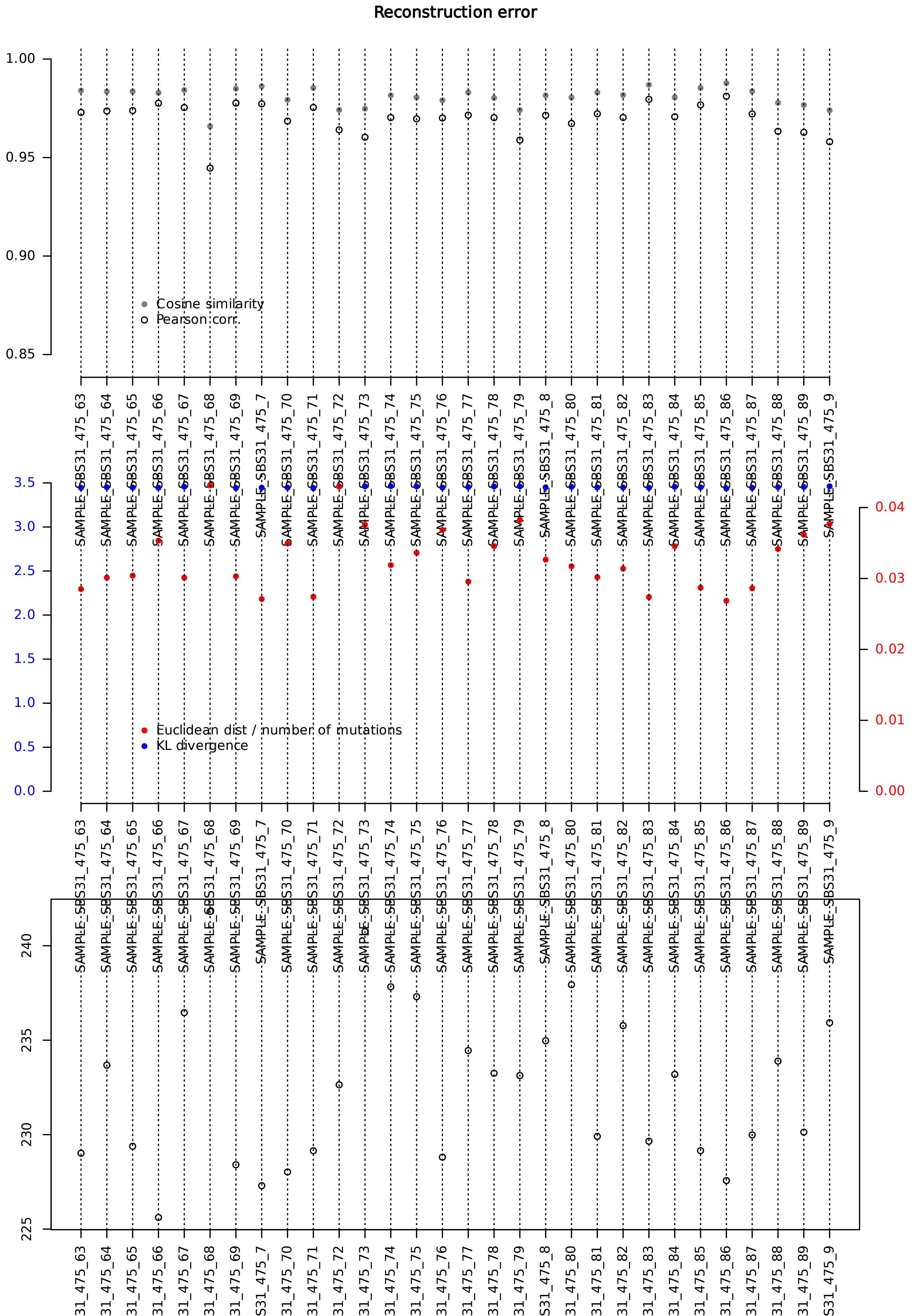
Reconstruction error

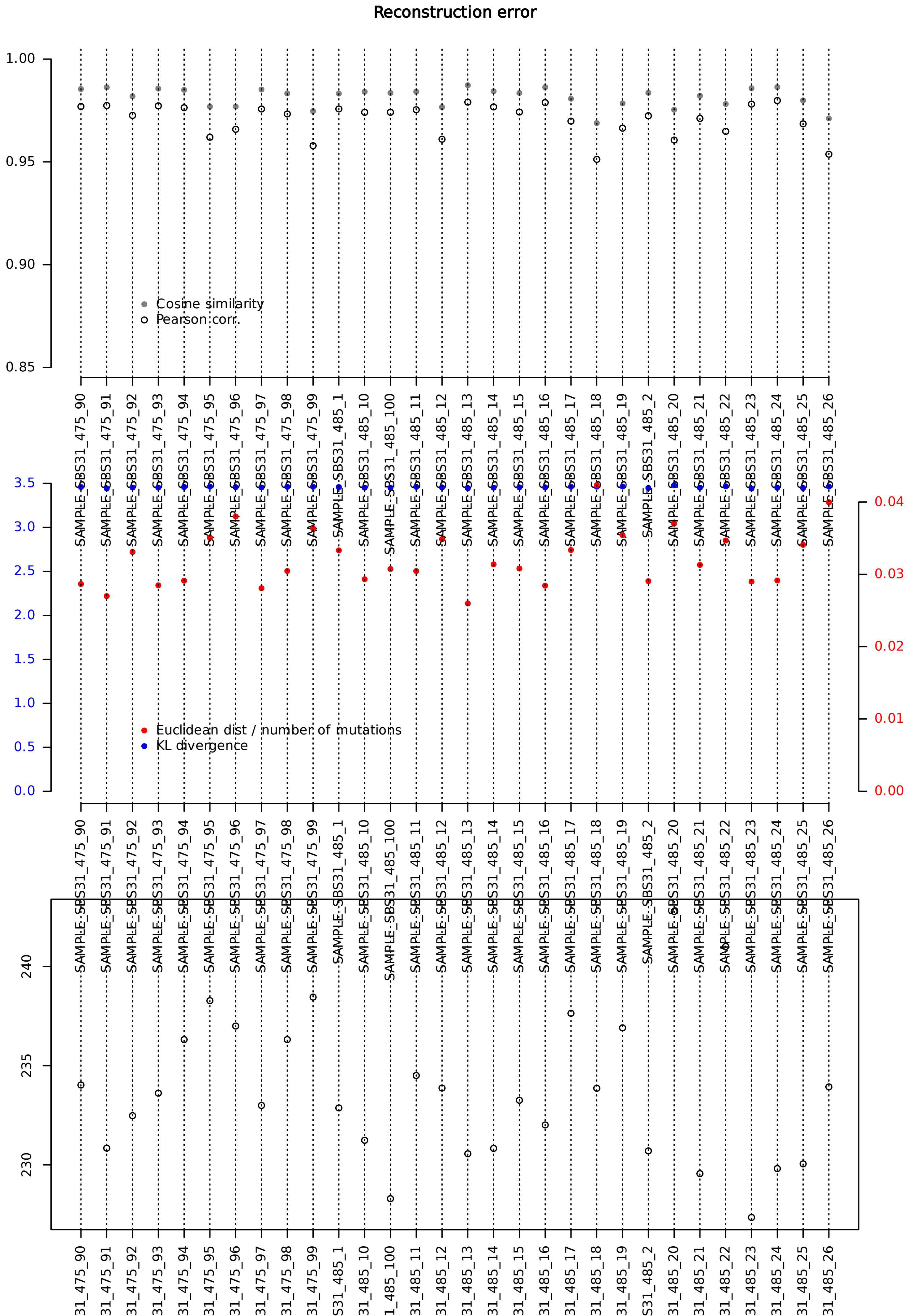


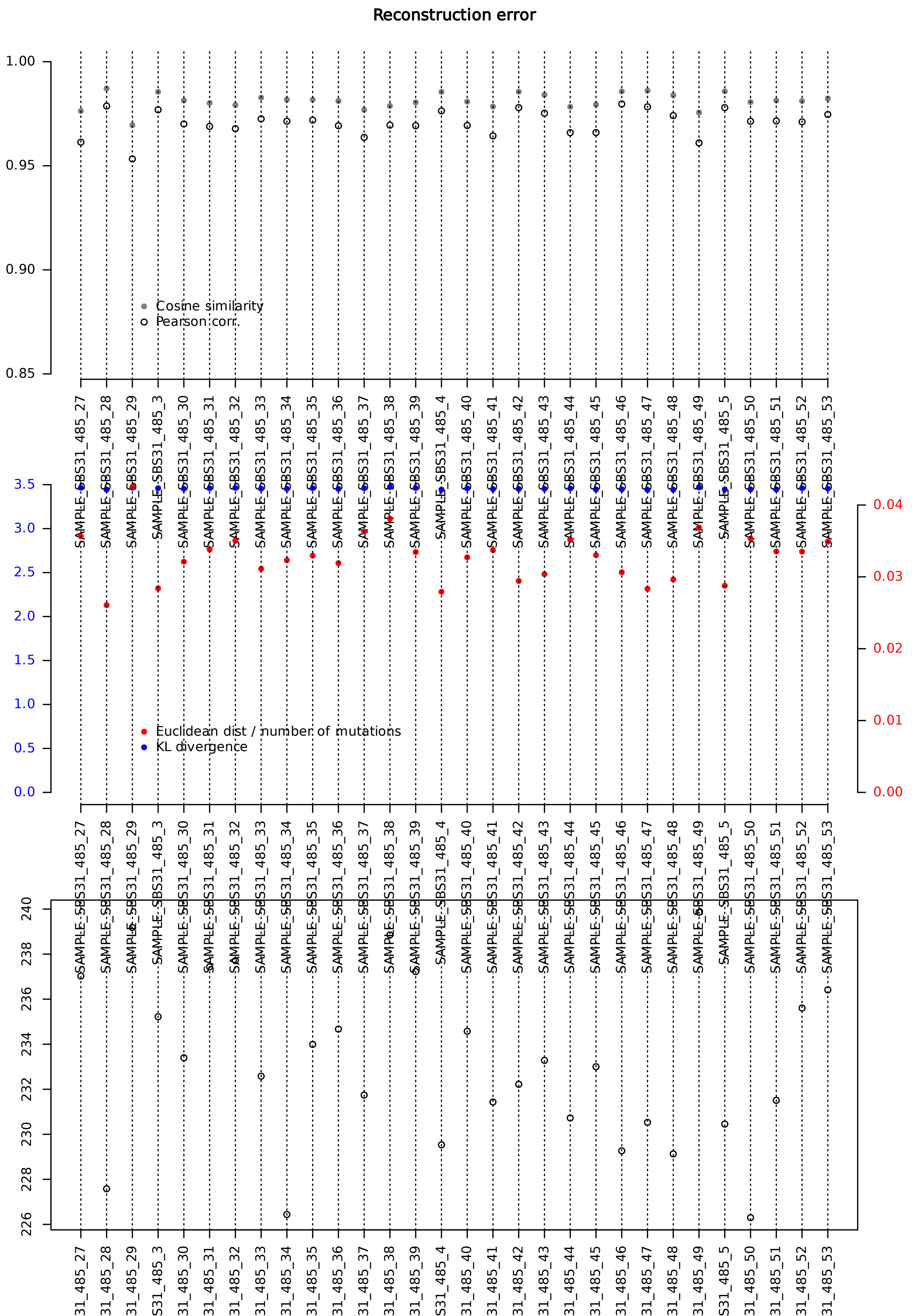
Reconstruction error

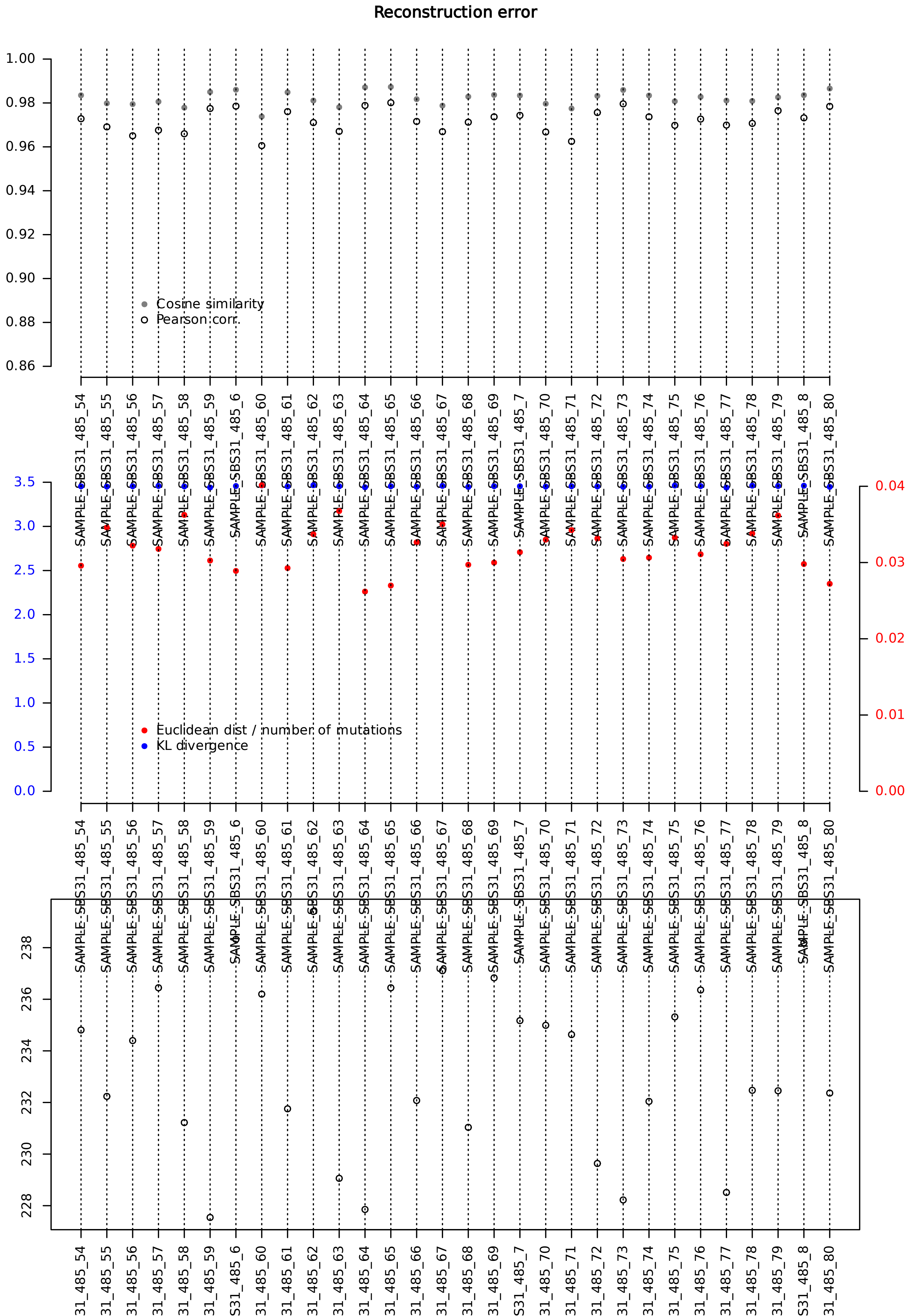


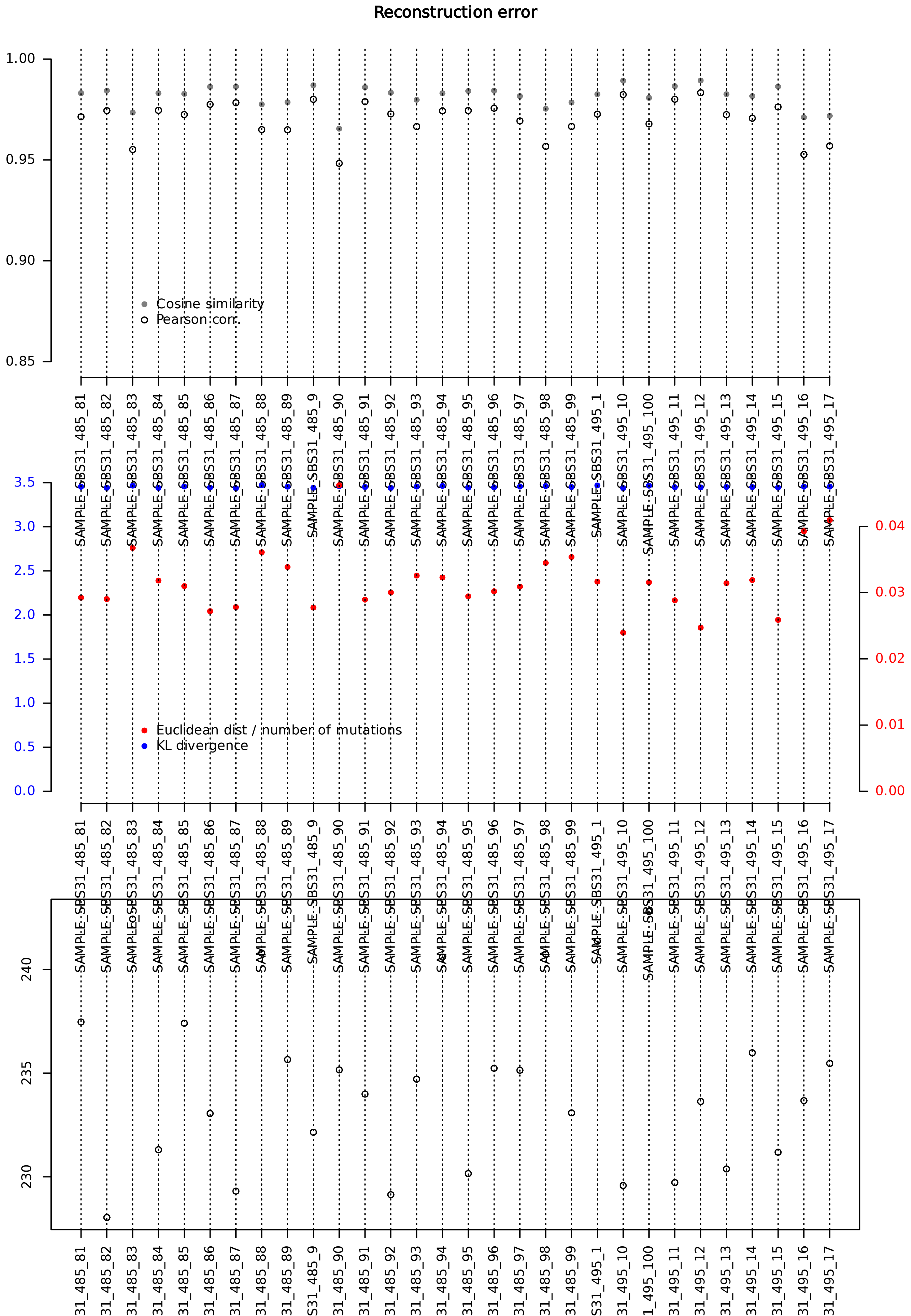

Reconstruction error

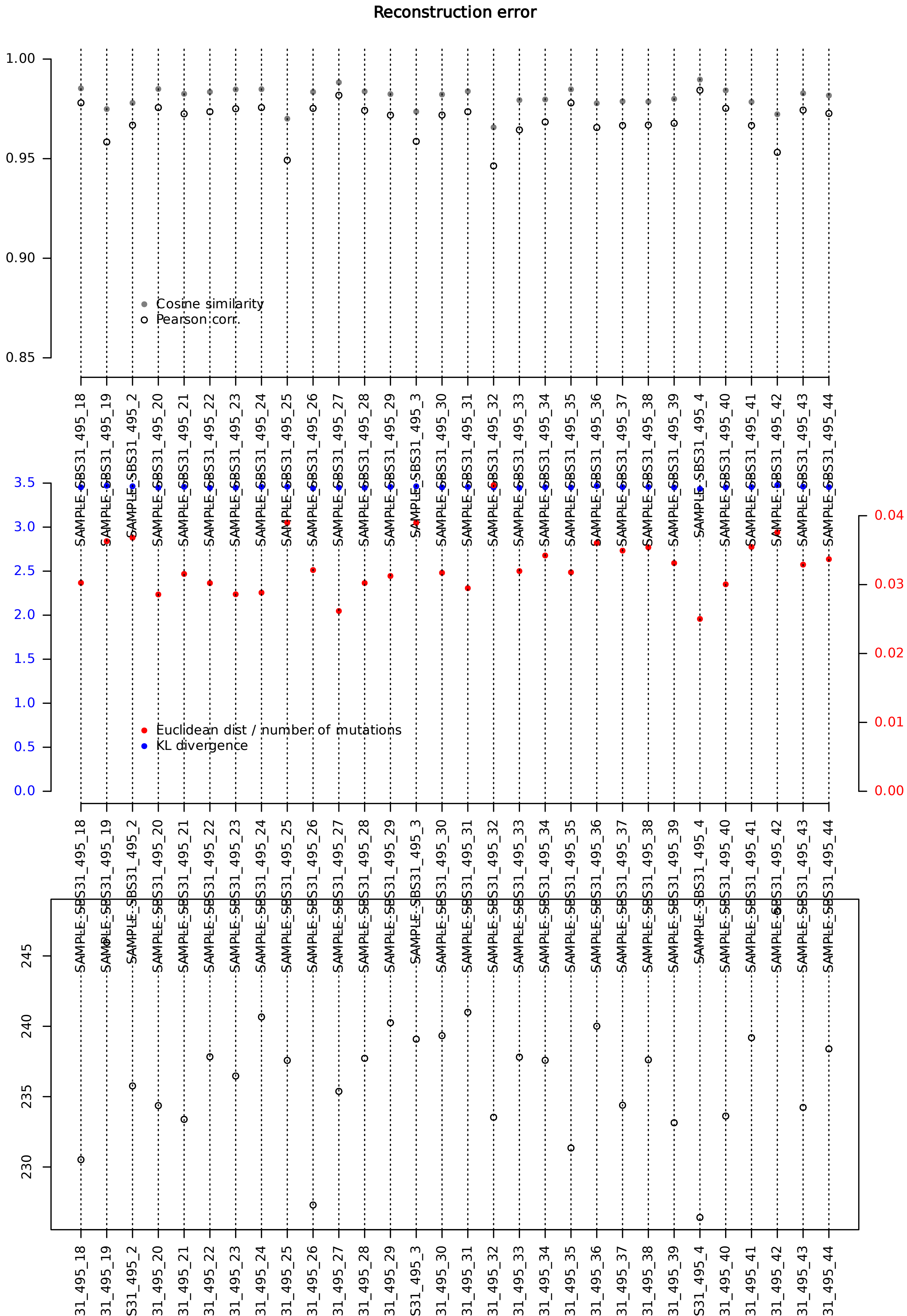

Reconstruction error
1.00
0.95
0.90
0.85
● Cosine similarity
○ Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
● Euclidean dist / number of mutations
● KL divergence
240
235
230
225
SAMPLE-SBS31_475_63
SAMPLE-SBS31_475_64
SAMPLE-SBS31_475_65
SAMPLE-SBS31_475_66
SAMPLE-SBS31_475_67
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

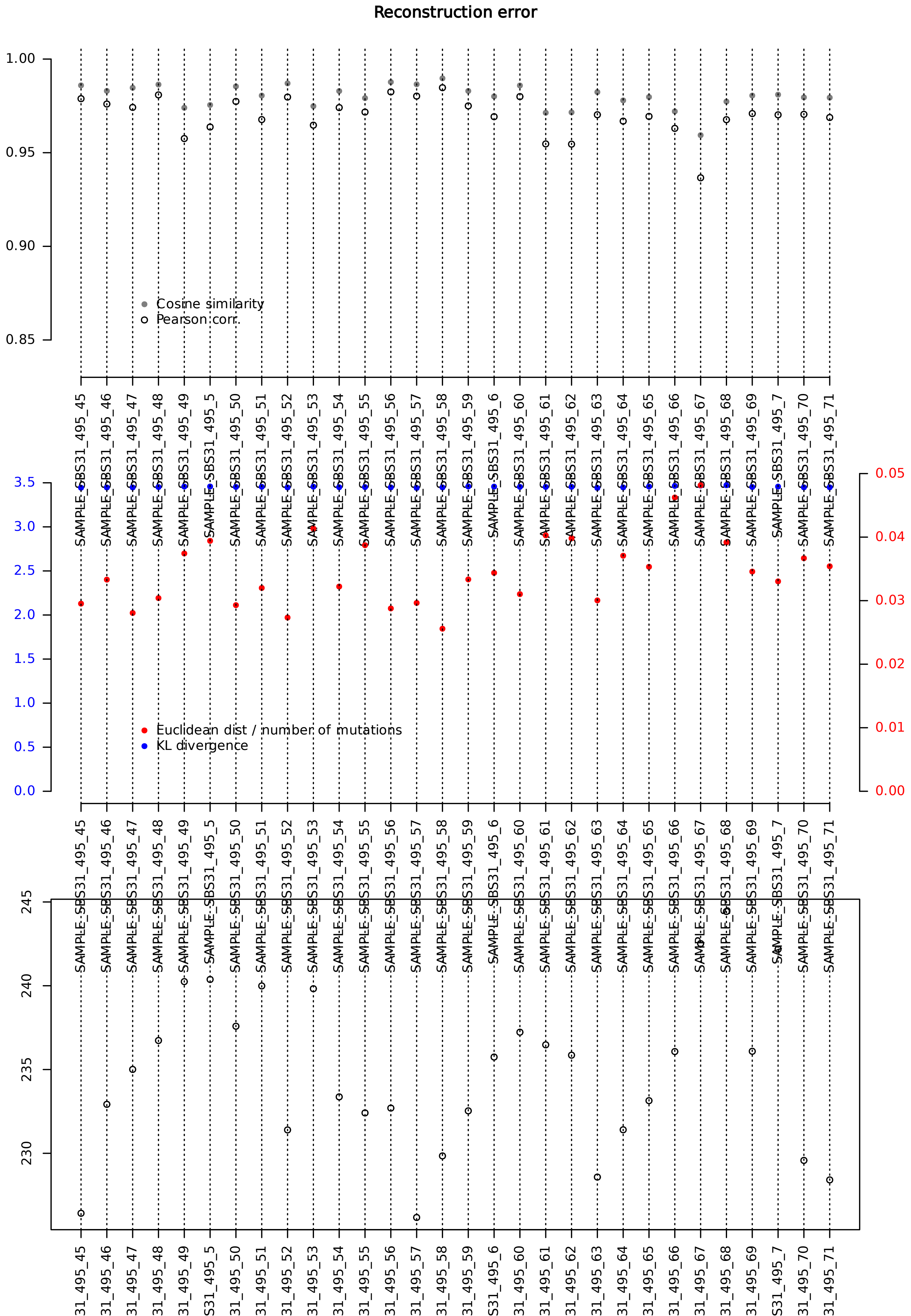

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
240
235
230
SAMPLE-SBS31_475_90
SAMPLE-SBS31_475_91
SAMPLE-SBS31_475_92
SAMPLE-SBS31_475_93
SAMPLE-SBS31_475_94
SAMPLE-SBS31_475_95
SAMPLE-SBS31_475_96
SAMPLE-SBS31_475_97
SAMPLE-SBS31_475_98
SAMPLE-SBS31_475_99
SAMPLE-SBS31_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
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


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
238
236
234
232
230
228
226
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
SAMPLE-SBS31_485_40
SAMPLE-SBS31_485_41
SAMPLE-SBS31_485_42
SAMPLE-SBS31_485_43
SAMPLE-SBS31_485_44
SAMPLE-SBS31_485_45
SAMPLE-SBS31_485_46
SAMPLE-SBS31_485_47
SAMPLE-SBS31_485_48
SAMPLE-SBS31_485_49
SAMPLE-SBS31_485_5
SAMPLE-SBS31_485_50
SAMPLE-SBS31_485_51
SAMPLE-SBS31_485_52
SAMPLE-SBS31_485_53

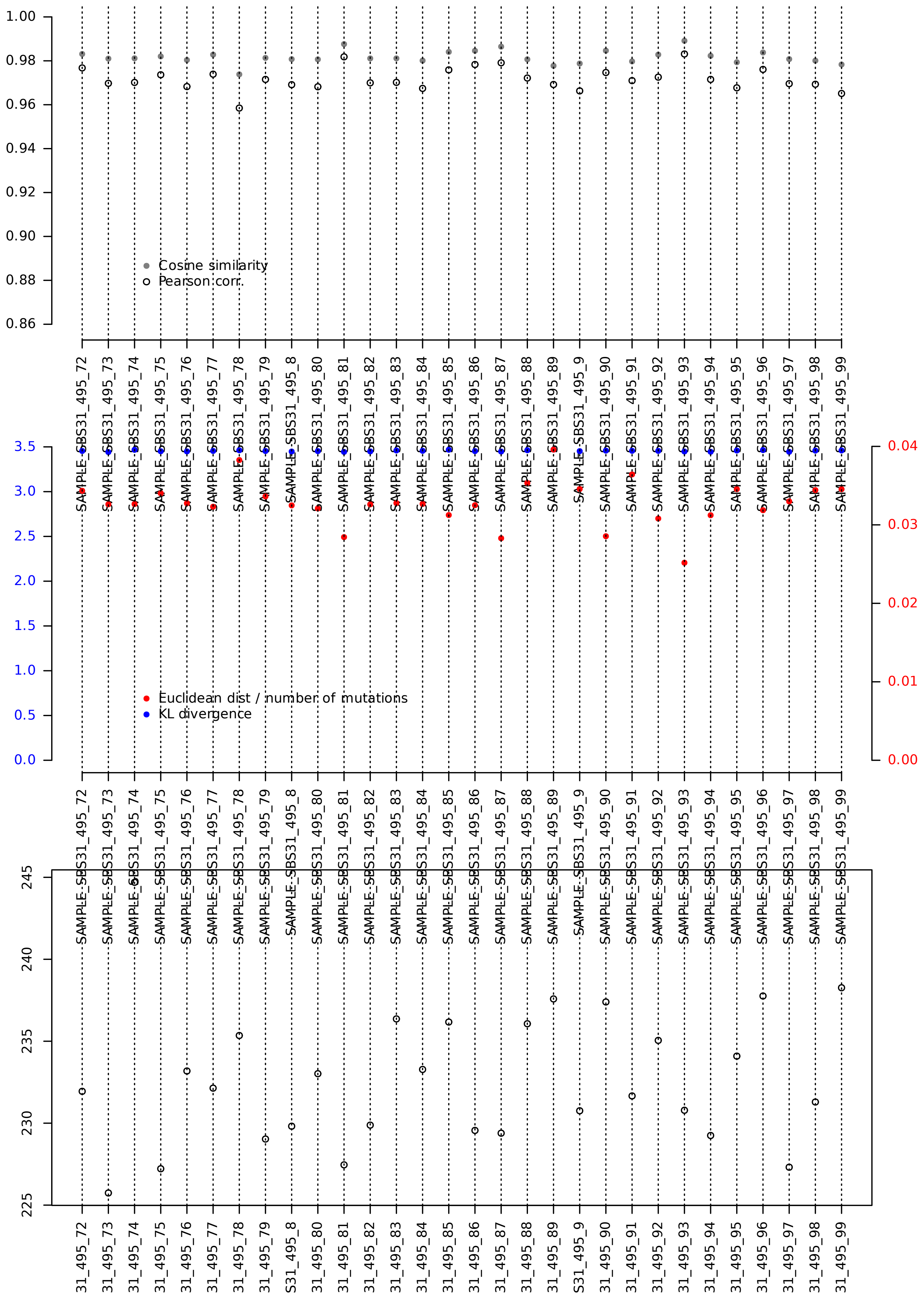

Reconstruction error
1.00
0.98
0.96
0.94
0.92
0.90
0.88
0.86
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
238
236
234
232
230
228
SAMPLE-SBS31_485_54
SAMPLE-SBS31_485_55
SAMPLE-SBS31_485_56
SAMPLE-SBS31_485_57
SAMPLE-SBS31_485_58
SAMPLE-SBS31_485_59
SAMPLE-SBS31_485_6
SAMPLE-SBS31_485_60
SAMPLE-SBS31_485_61
SAMPLE-SBS31_485_62
SAMPLE-SBS31_485_63
SAMPLE-SBS31_485_64
SAMPLE-SBS31_485_65
SAMPLE-SBS31_485_66
SAMPLE-SBS31_485_67
SAMPLE-SBS31_485_68
SAMPLE-SBS31_485_69
SAMPLE-SBS31_485_7
SAMPLE-SBS31_485_70
SAMPLE-SBS31_485_71
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

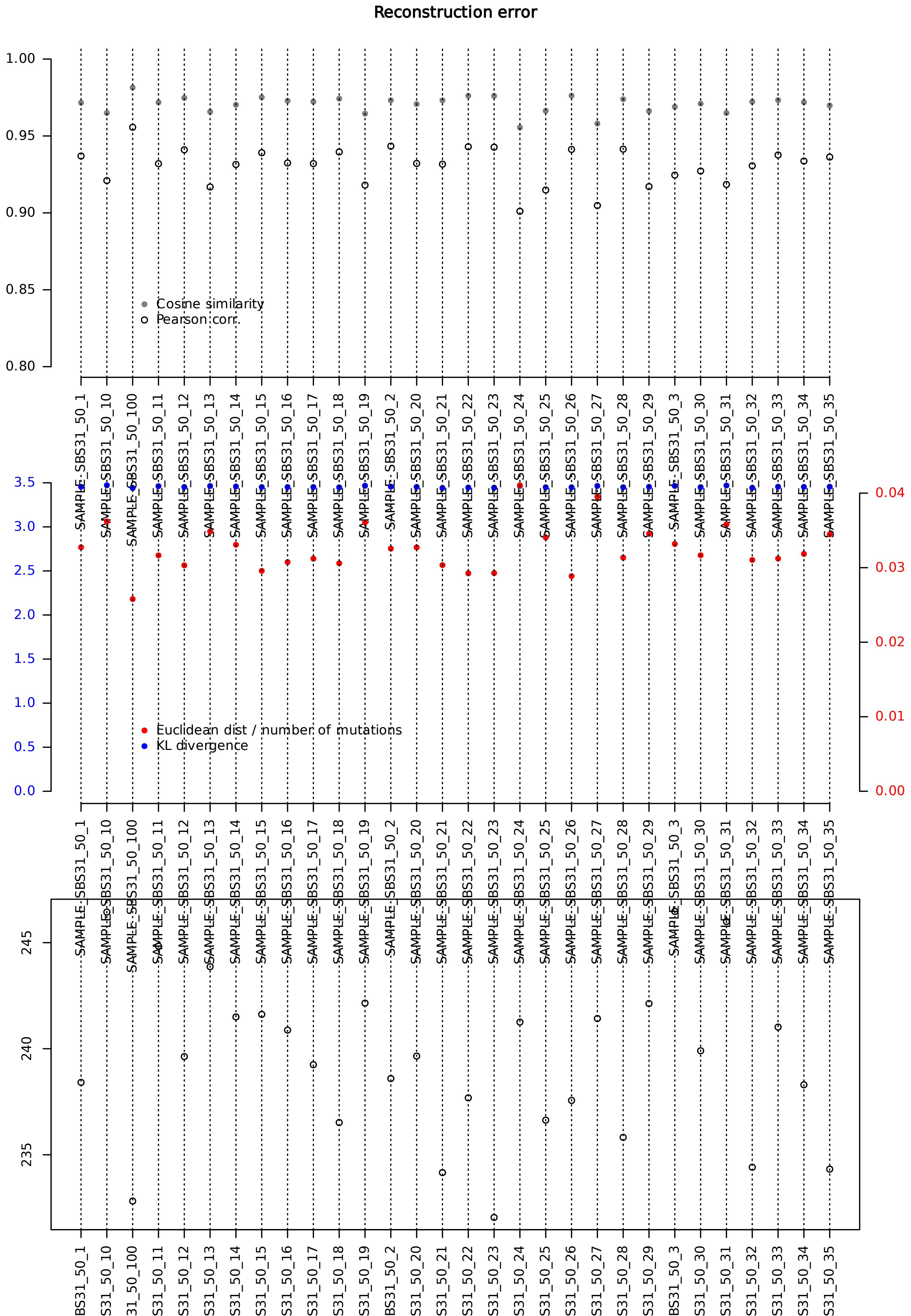

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
240
235
230
SAMPLE-SBS31_485_81
SAMPLE-SBS31_485_82
SAMPLE-SBS31_485_83
SAMPLE-SBS31_485_84
SAMPLE-SBS31_485_85
SAMPLE-SBS31_485_86
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
SAMPLE-SBS31_495_1
SAMPLE-SBS31_495_10
SAMPLE-SBS31_495_100
SAMPLE-SBS31_495_11
SAMPLE-SBS31_495_12
SAMPLE-SBS31_495_13
SAMPLE-SBS31_495_14
SAMPLE-SBS31_495_15
SAMPLE-SBS31_495_16
SAMPLE-SBS31_495_17

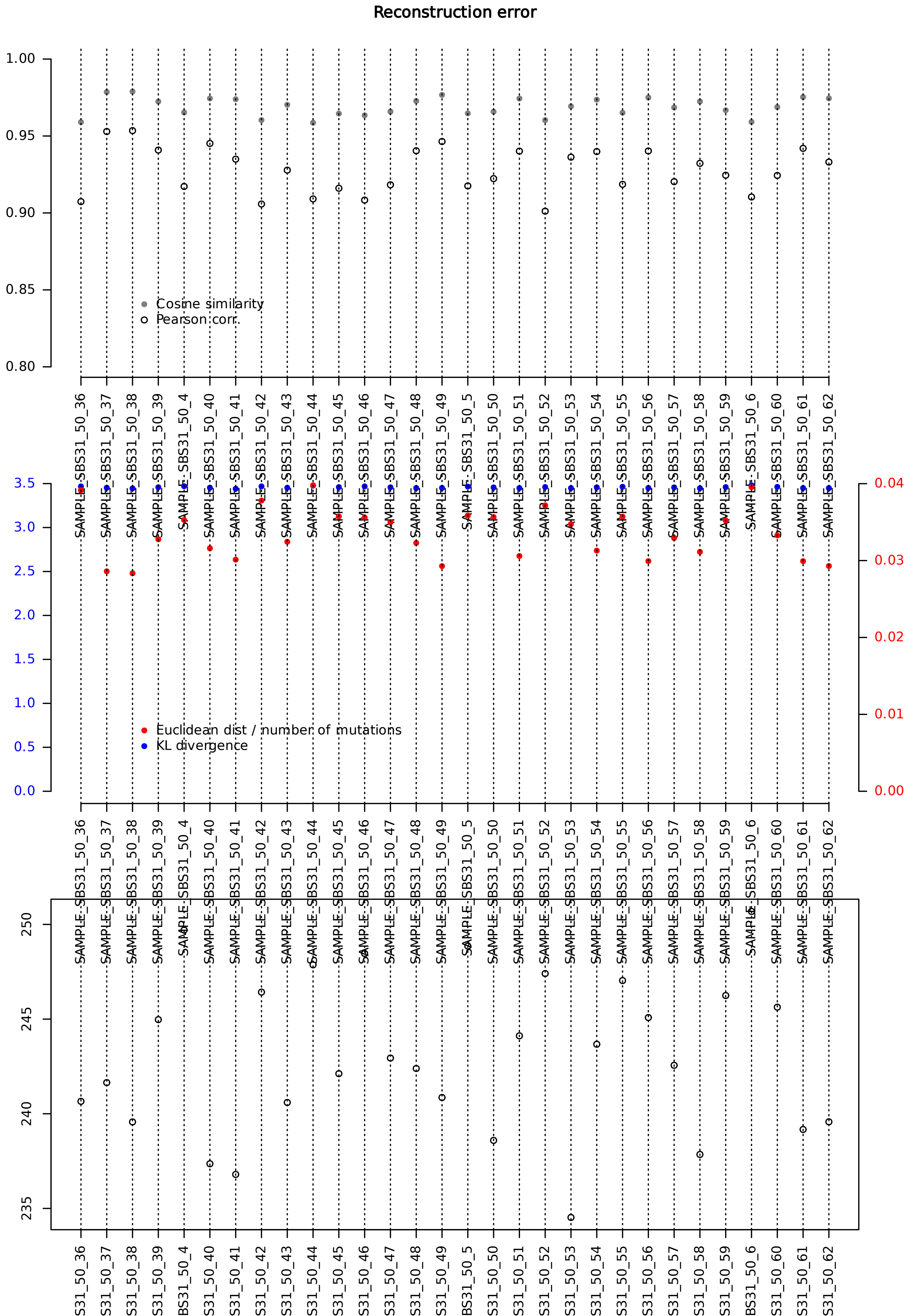

Reconstruction error
1.00
0.95
0.90
0.85
● Cosine similarity
○ Pearson corr.
SAMPLE-SBS31_495_18
SAMPLE-SBS31_495_19
SAMPLE-SBS31_495_2
SAMPLE-SBS31_495_20
SAMPLE-SBS31_495_21
SAMPLE-SBS31_495_22
SAMPLE-SBS31_495_23
SAMPLE-SBS31_495_24
SAMPLE-SBS31_495_25
SAMPLE-SBS31_495_26
SAMPLE-SBS31_495_27
SAMPLE-SBS31_495_28
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
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

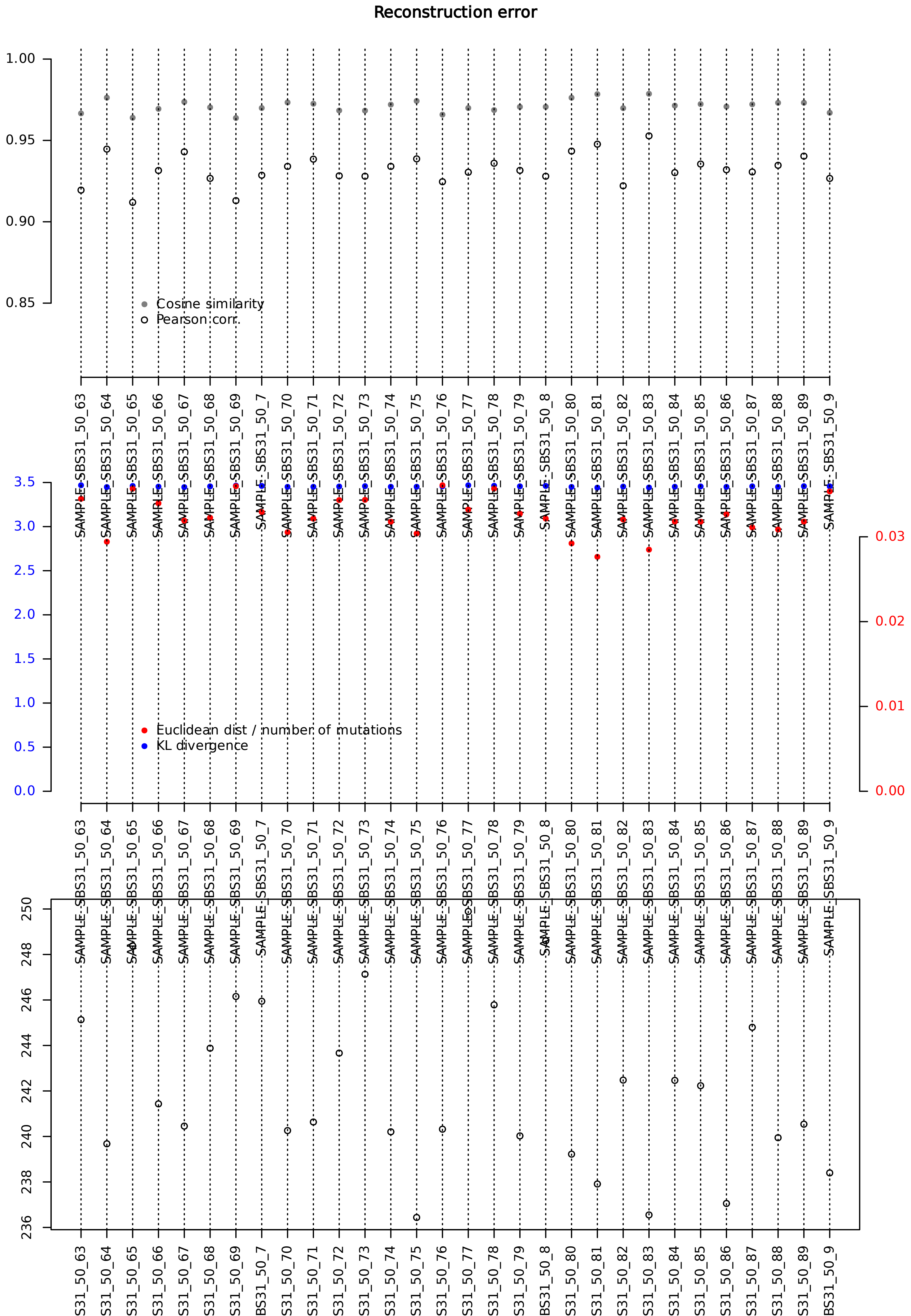

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.05
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
245
240
235
230
SAMPLE-SBS31_495_45
SAMPLE-SBS31_495_46
SAMPLE-SBS31_495_47
SAMPLE-SBS31_495_48
SAMPLE-SBS31_495_49
SAMPLE-SBS31_495_5
SAMPLE-SBS31_495_50
SAMPLE-SBS31_495_51
SAMPLE-SBS31_495_52
SAMPLE-SBS31_495_53
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

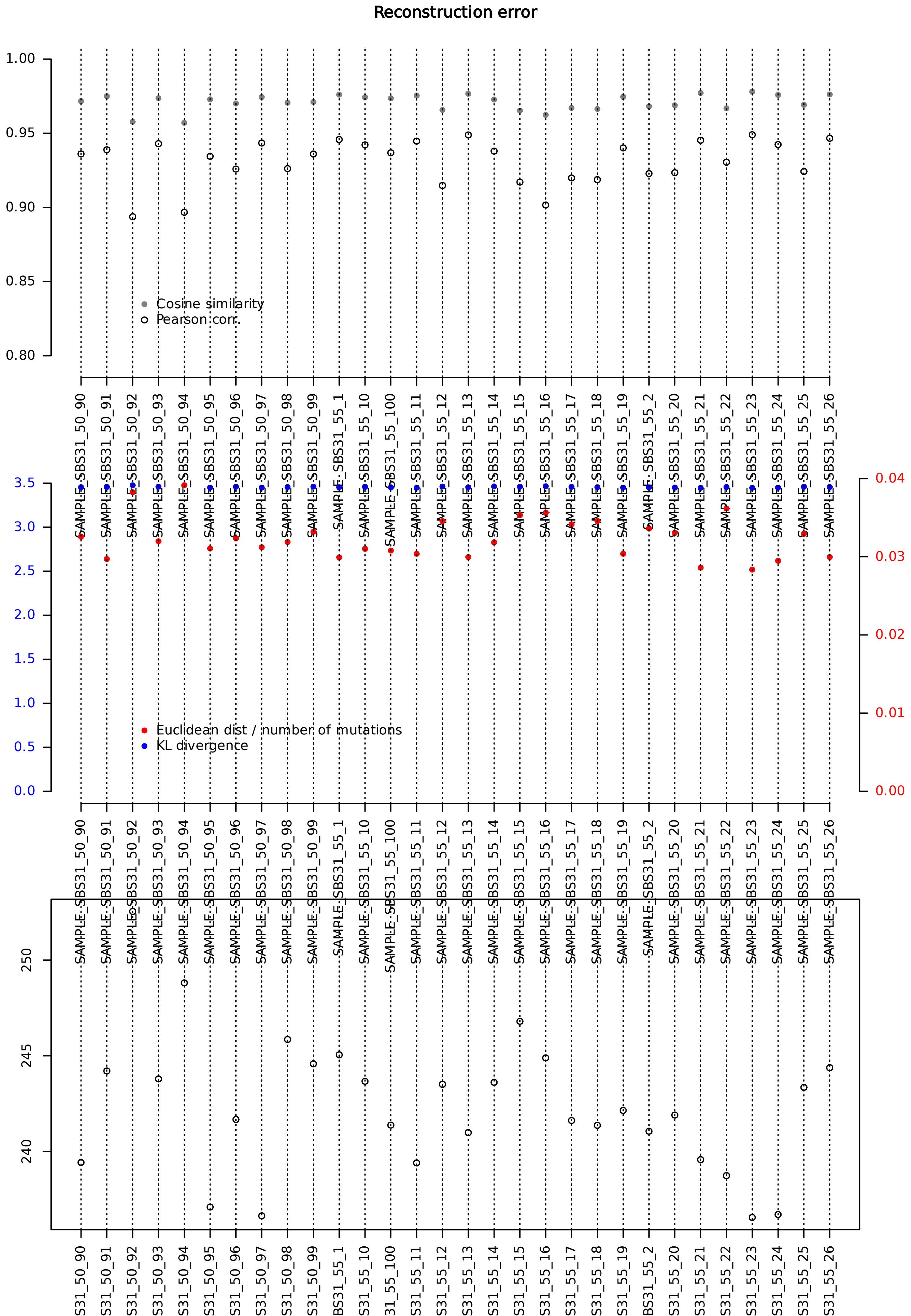
Reconstruction error

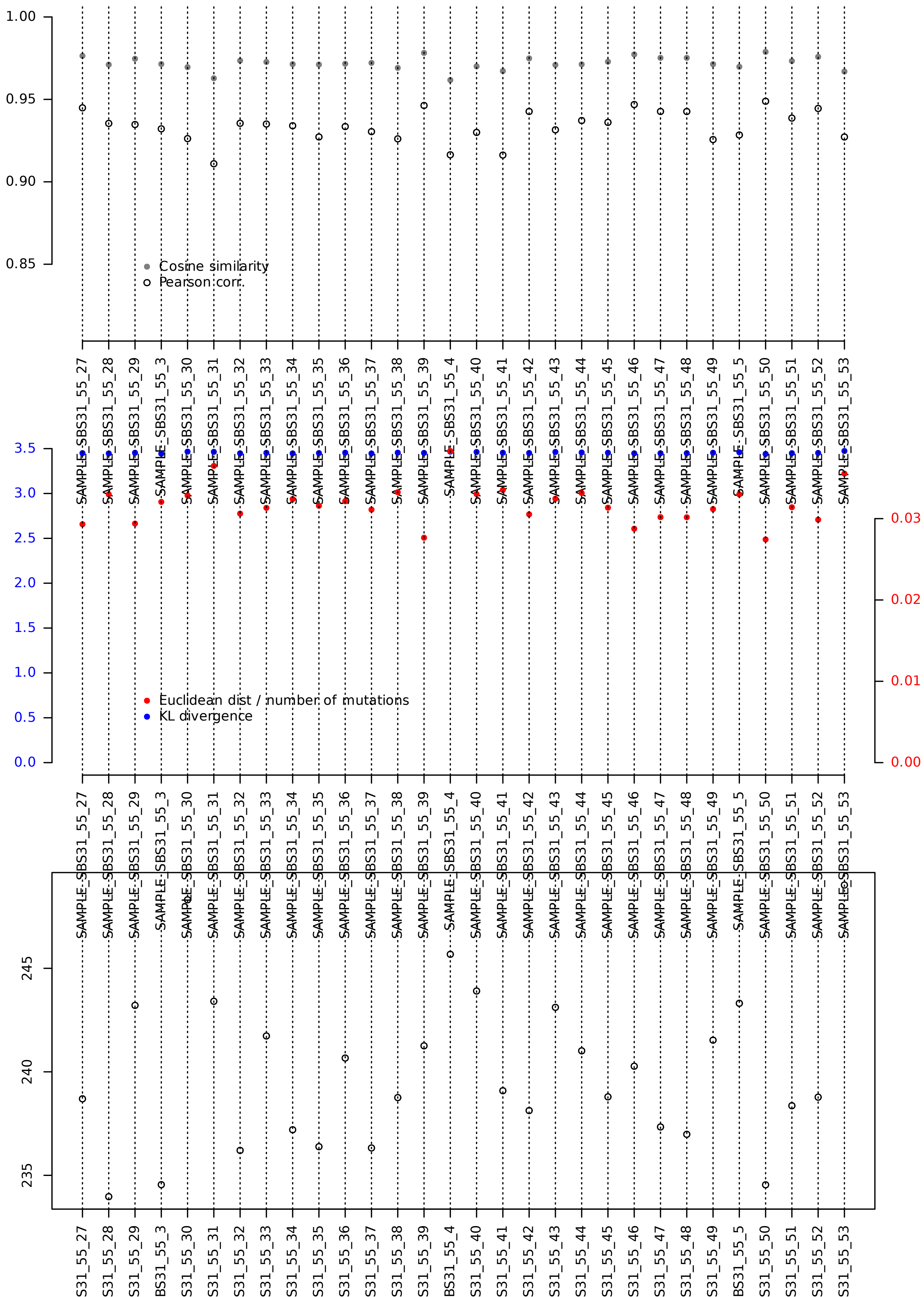


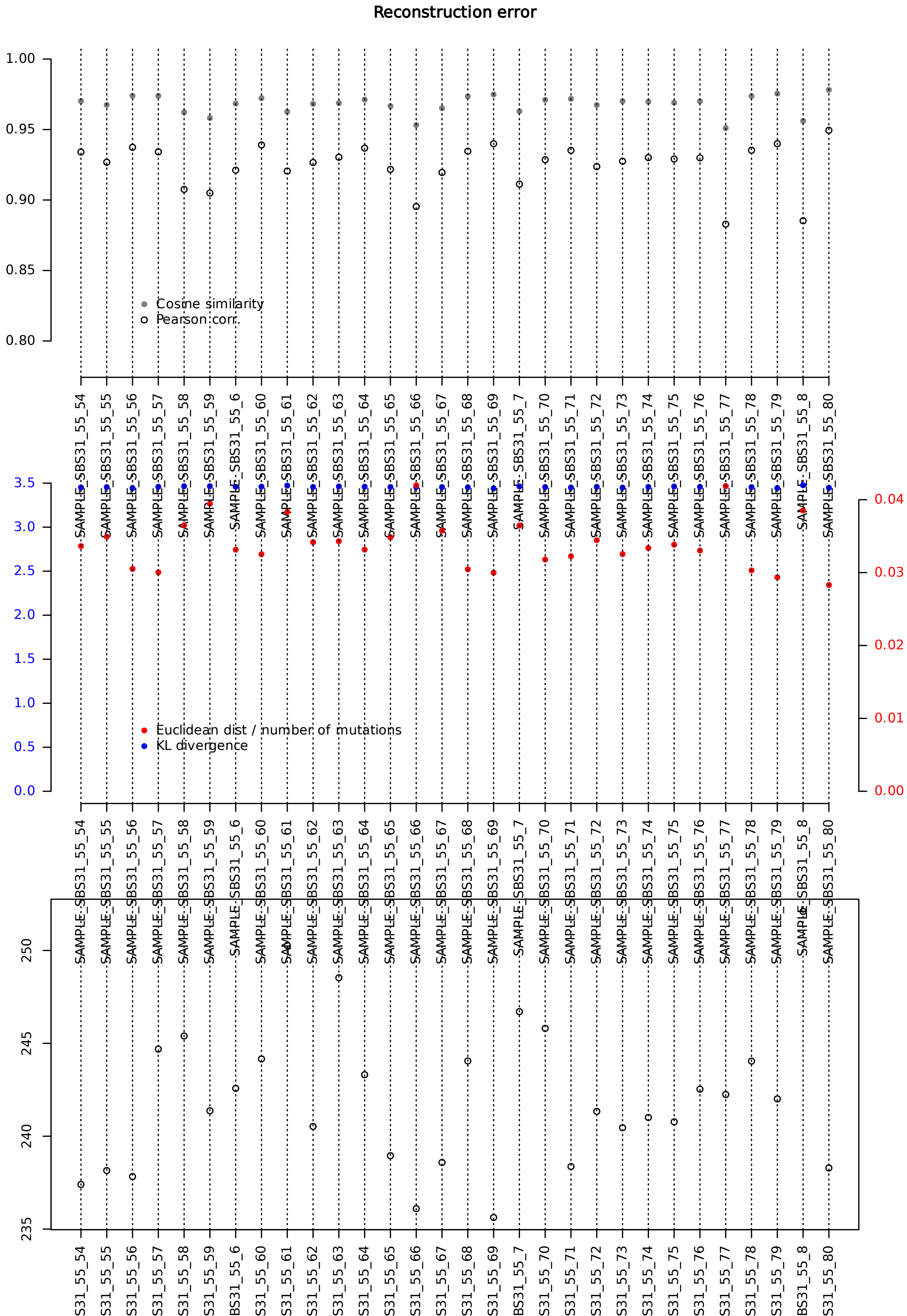

Reconstruction error
1.00
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
245
240
235
SAMPLE-SBS31_50_1
SAMPLE-SBS31_50_10
SAMPLE-SBS31_50_100
SAMPLE-SBS31_50_11
SAMPLE-SBS31_50_12
SAMPLE-SBS31_50_13
SAMPLE-SBS31_50_14
SAMPLE-SBS31_50_15
SAMPLE-SBS31_50_16
SAMPLE-SBS31_50_17
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

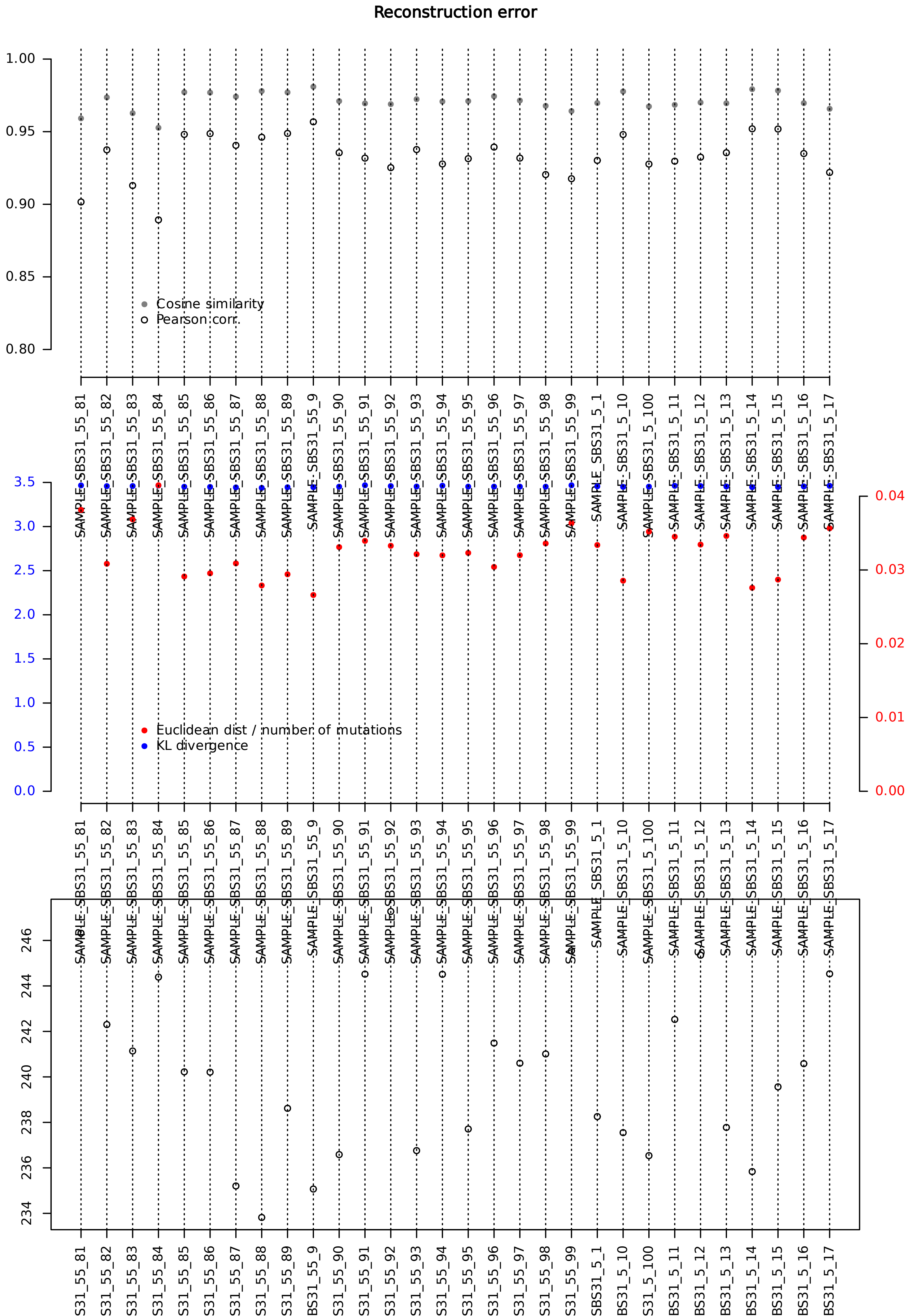

Reconstruction error
1.00
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
250
245
240
235
SAMPLE-SBS31_50_36
SAMPLE-SBS31_50_37
SAMPLE-SBS31_50_38
SAMPLE-SBS31_50_39
SAMPLE-SBS31_50_4
SAMPLE-SBS31_50_40
SAMPLE-SBS31_50_41
SAMPLE-SBS31_50_42
SAMPLE-SBS31_50_43
SAMPLE-SBS31_50_44
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

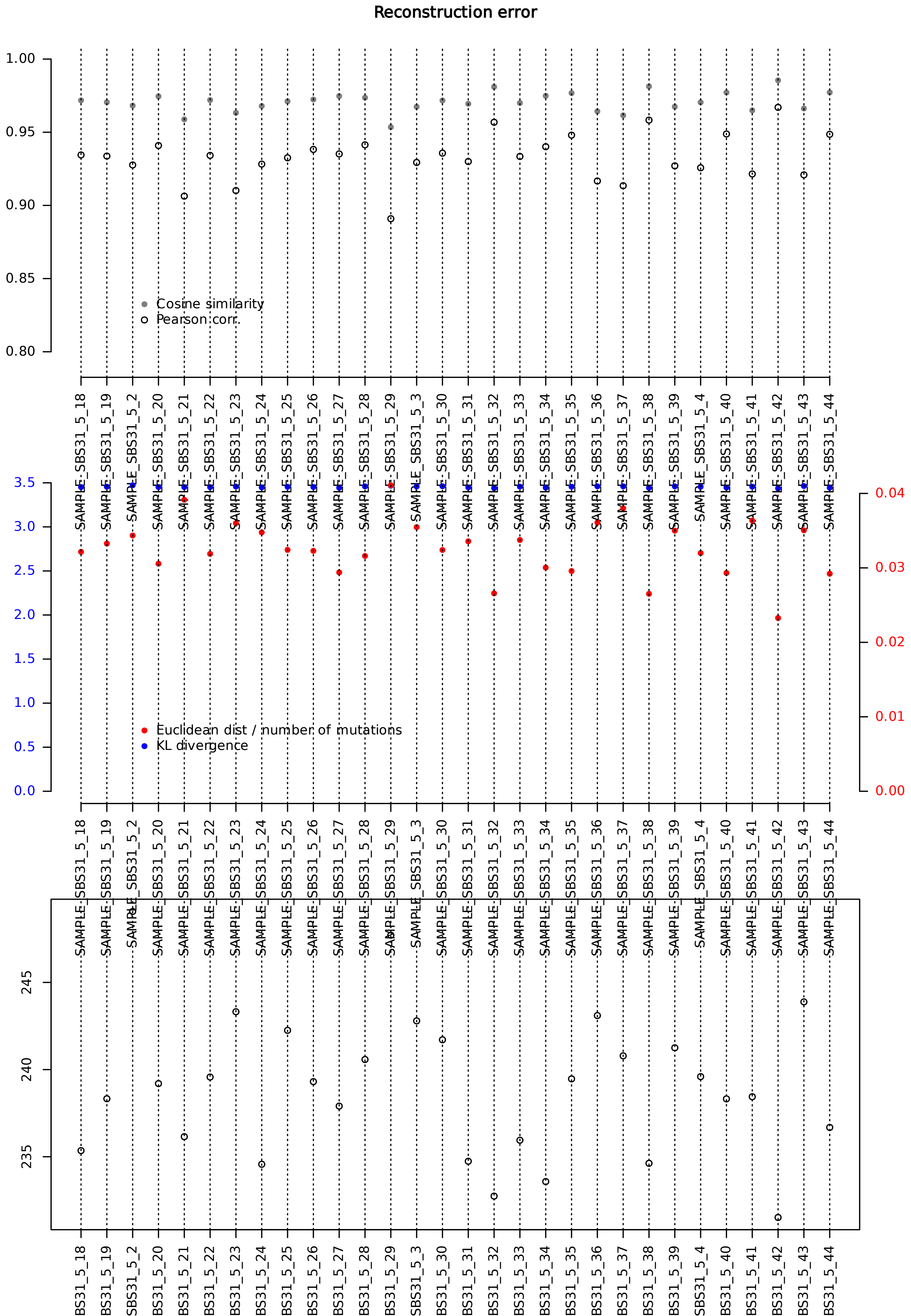

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
250
248
246
244
242
240
238
236
SAMPLE-SBS31_50_63
SAMPLE-SBS31_50_64
SAMPLE-SBS31_50_65
SAMPLE-SBS31_50_66
SAMPLE-SBS31_50_67
SAMPLE-SBS31_50_68
SAMPLE-SBS31_50_69
SAMPLE-SBS31_50_7
SAMPLE-SBS31_50_70
SAMPLE-SBS31_50_71
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

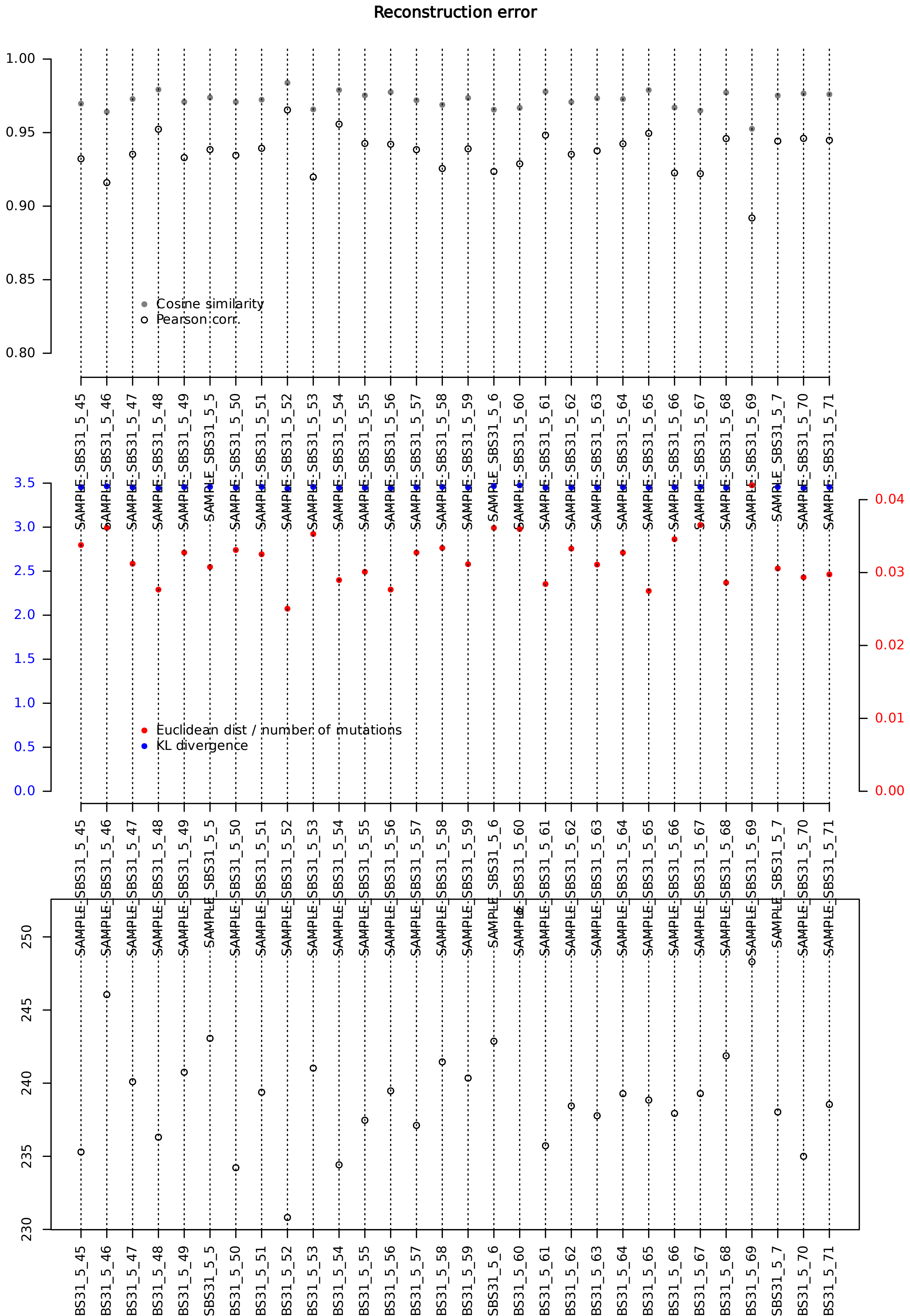

Reconstruction error
1.00
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
SAMPLE-SBS31_50_90
SAMPLE-SBS31_50_91
SAMPLE-SBS31_50_92
SAMPLE-SBS31_50_93
SAMPLE-SBS31_50_94
SAMPLE-SBS31_50_95
SAMPLE-SBS31_50_96
SAMPLE-SBS31_50_97
SAMPLE-SBS31_50_98
SAMPLE-SBS31_50_99
SAMPLE-SBS31_55_1
SAMPLE-SBS31_55_10
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
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
S31_50_90
S31_50_91
S31_50_92
S31_50_93
S31_50_94
S31_50_95
S31_50_96
S31_50_97
S31_50_98
S31_50_99
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

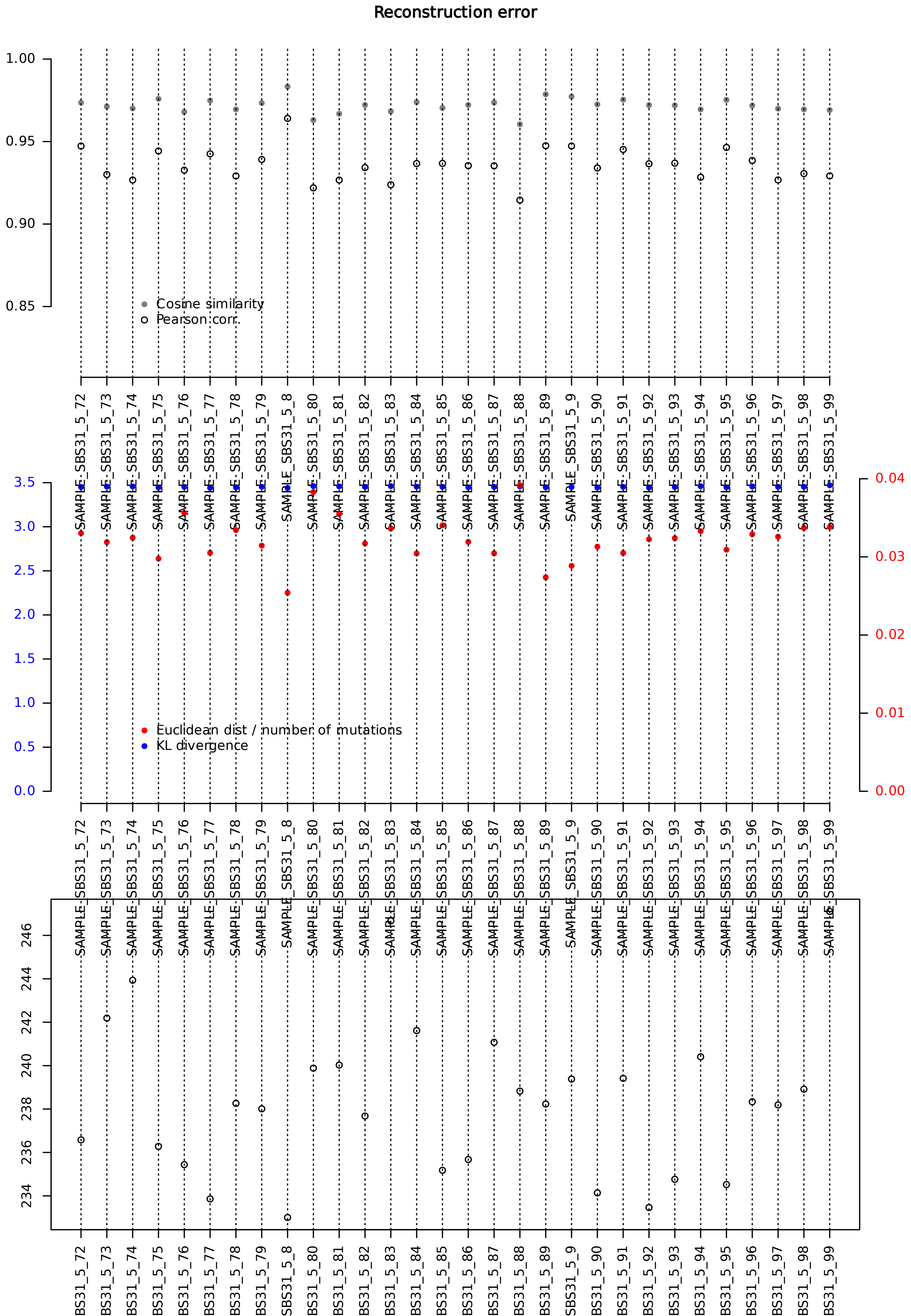

Reconstruction error


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
250
245
240
235
SAMPLE_SBS31_55_54
SAMPLE_SBS31_55_55
SAMPLE_SBS31_55_56
SAMPLE_SBS31_55_57
SAMPLE_SBS31_55_58
SAMPLE_SBS31_55_59
SAMPLE_SBS31_55_6
SAMPLE_SBS31_55_60
SAMPLE_SBS31_55_61
SAMPLE_SBS31_55_62
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

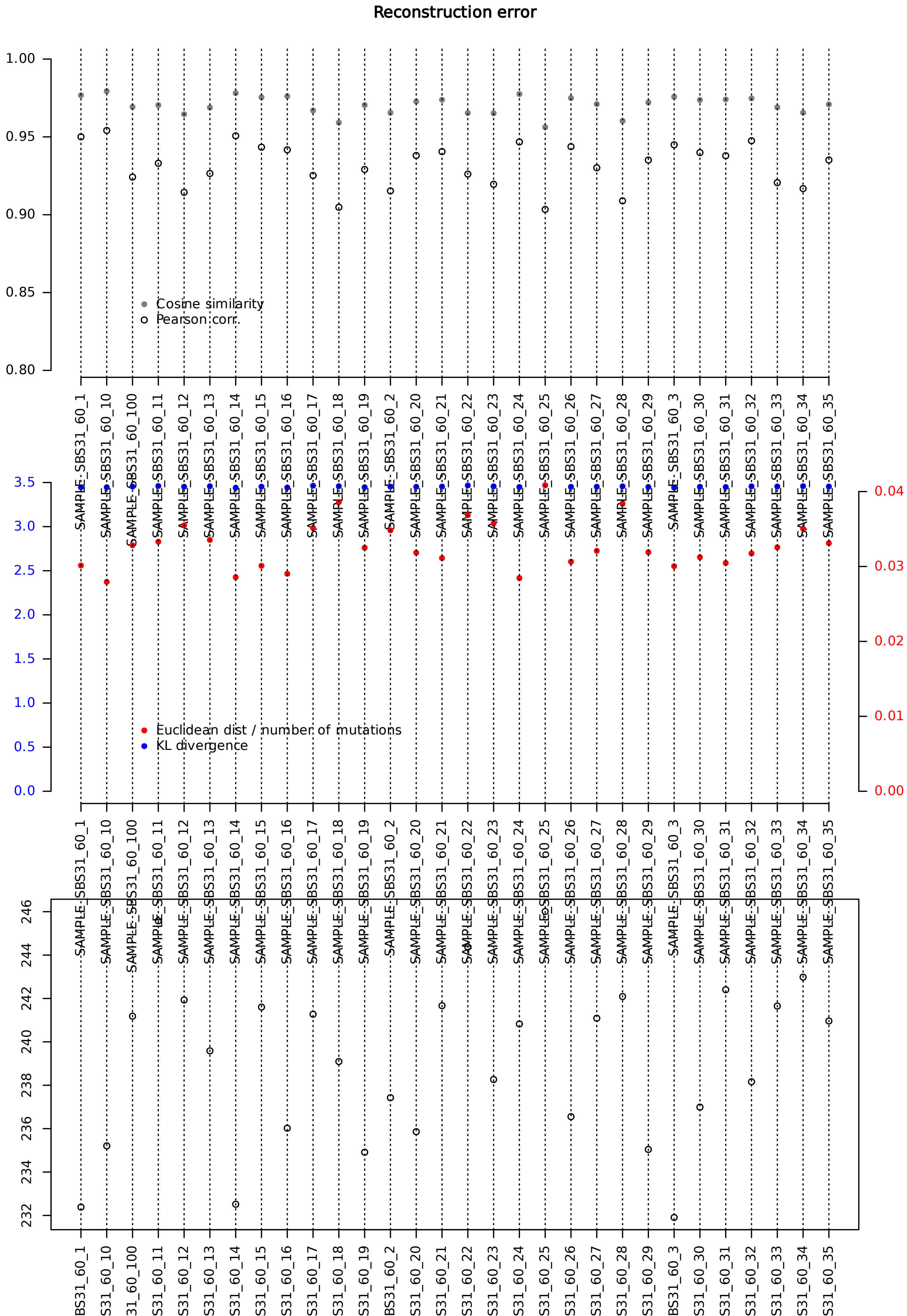
Reconstruction error
1.00
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
SAMPLE_SBS31_55_81
SAMPLE_SBS31_55_82
SAMPLE_SBS31_55_83
SAMPLE_SBS31_55_84
SAMPLE_SBS31_55_85
SAMPLE_SBS31_55_86
SAMPLE_SBS31_55_87
SAMPLE_SBS31_55_88
SAMPLE_SBS31_55_89
SAMPLE_SBS31_55_9
SAMPLE_SBS31_55_90
SAMPLE_SBS31_55_91
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
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
246
244
242
240
238
236
234
S31_55_81
S31_55_82
S31_55_83
S31_55_84
S31_55_85
S31_55_86
S31_55_87
S31_55_88
S31_55_89
BS31_55_9
S31_55_90
S31_55_91
S31_55_92
S31_55_93
S31_55_94
S31_55_95
S31_55_96
S31_55_97
S31_55_98
S31_55_99
SBS31_5_1
BS31_5_10
S31_5_100
BS31_5_11
BS31_5_12
BS31_5_13
BS31_5_14
BS31_5_15
BS31_5_16
BS31_5_17

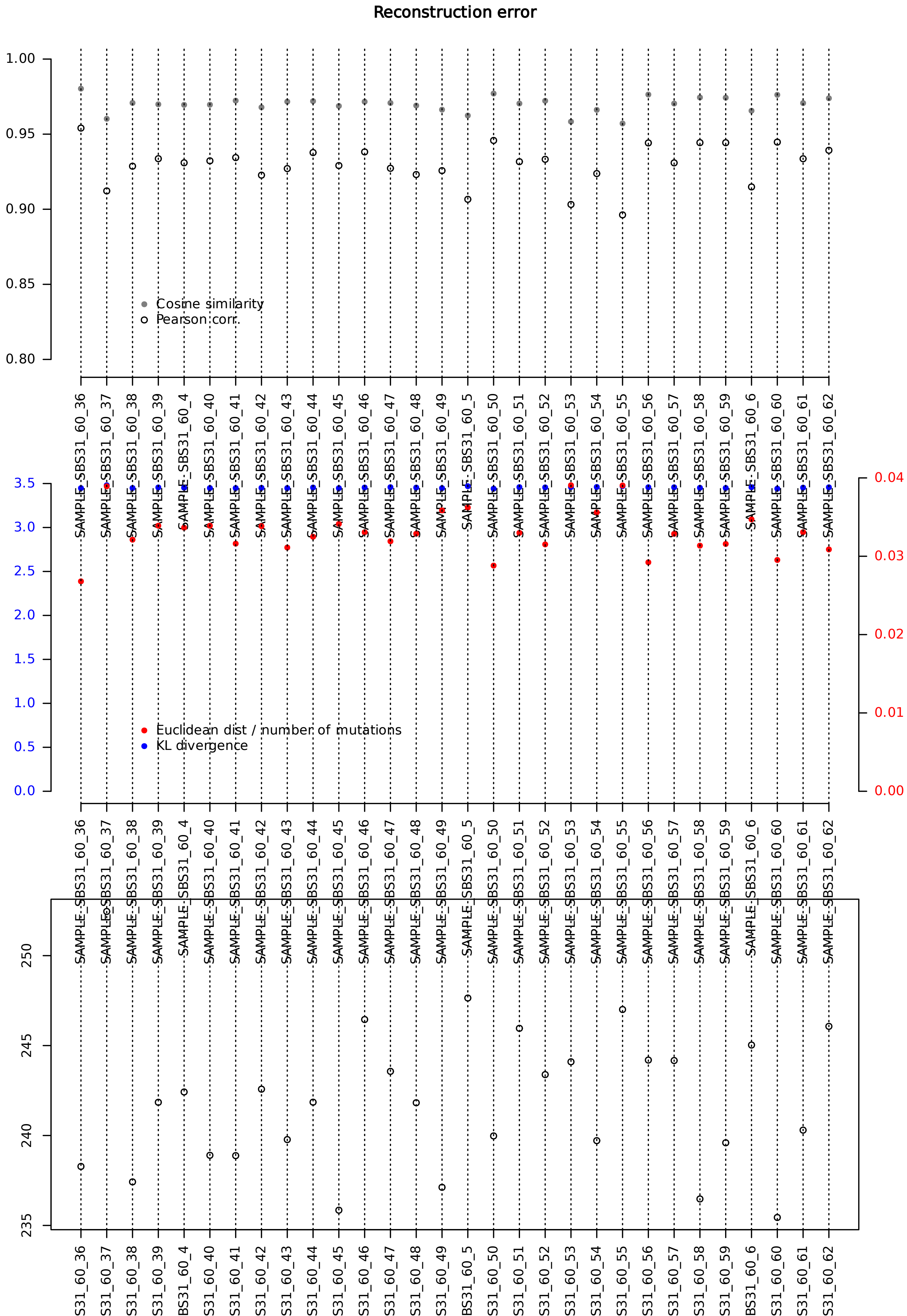

Reconstruction error
1.00
0.95
0.90
0.85
0.80
● Cosine similarity
○ Pearson corr.
SAMPLE_SBS31_5_18
SAMPLE_SBS31_5_19
SAMPLE_SBS31_5_2
SAMPLE_SBS31_5_20
SAMPLE_SBS31_5_21
SAMPLE_SBS31_5_22
SAMPLE_SBS31_5_23
SAMPLE_SBS31_5_24
SAMPLE_SBS31_5_25
SAMPLE_SBS31_5_26
SAMPLE_SBS31_5_27
SAMPLE_SBS31_5_28
SAMPLE_SBS31_5_29
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
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
BS31_5_18
BS31_5_19
SBS31_5_2
BS31_5_20
BS31_5_21
BS31_5_22
BS31_5_23
BS31_5_24
BS31_5_25
BS31_5_26
BS31_5_27
BS31_5_28
BS31_5_29
SBS31_5_3
BS31_5_30
BS31_5_31
BS31_5_32
BS31_5_33
BS31_5_34
BS31_5_35
BS31_5_36
BS31_5_37
BS31_5_38
BS31_5_39
SBS31_5_4
BS31_5_40
BS31_5_41
BS31_5_42
BS31_5_43
BS31_5_44

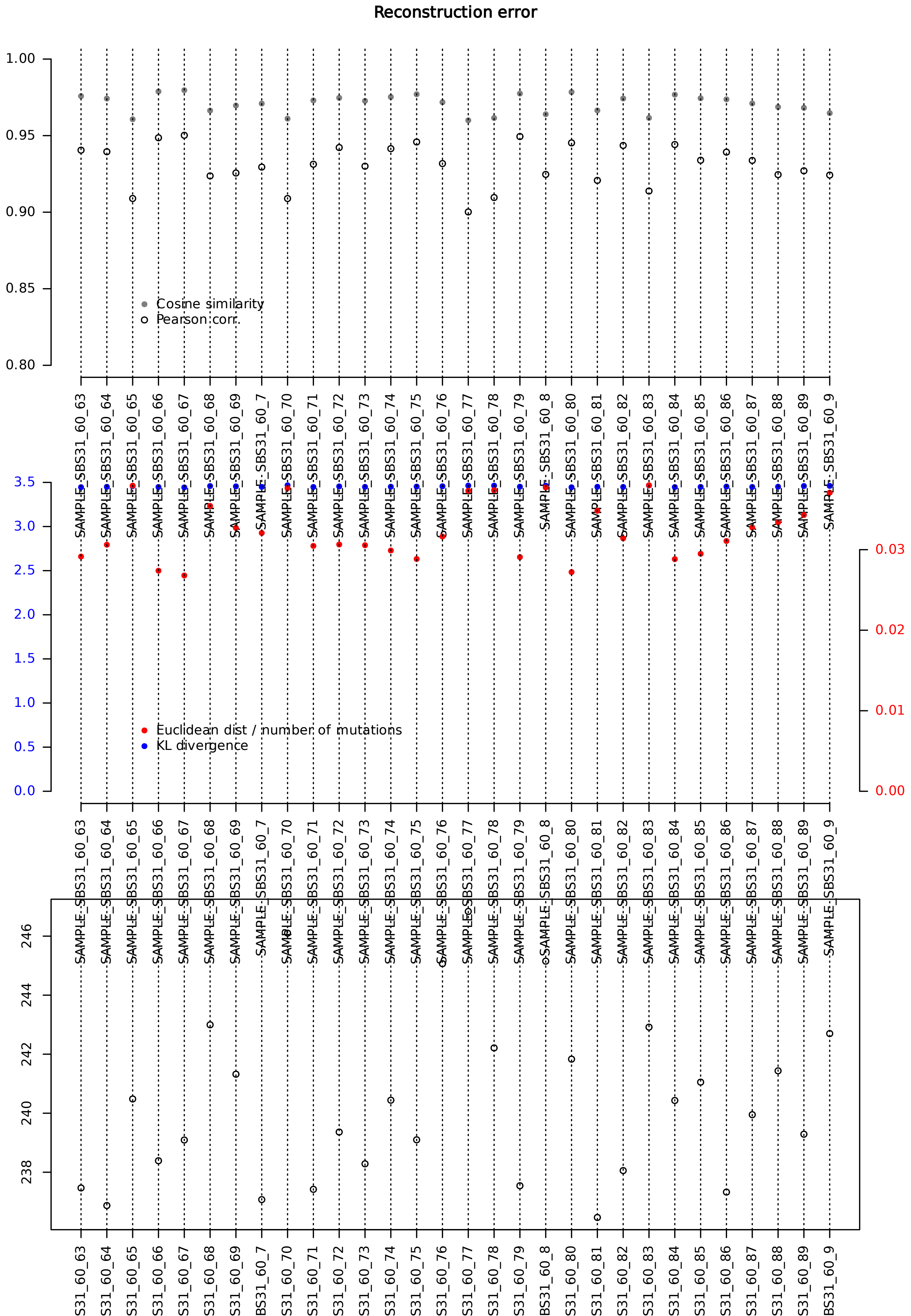

Reconstruction error
1.00
0.95
0.90
0.85
0.80
● Cosine similarity
○ Pearson corr.
SAMPLE_SBS31_5_45
SAMPLE_SBS31_5_46
SAMPLE_SBS31_5_47
SAMPLE_SBS31_5_48
SAMPLE_SBS31_5_49
SAMPLE_SBS31_5_5
SAMPLE_SBS31_5_50
SAMPLE_SBS31_5_51
SAMPLE_SBS31_5_52
SAMPLE_SBS31_5_53
SAMPLE_SBS31_5_54
SAMPLE_SBS31_5_55
SAMPLE_SBS31_5_56
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
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

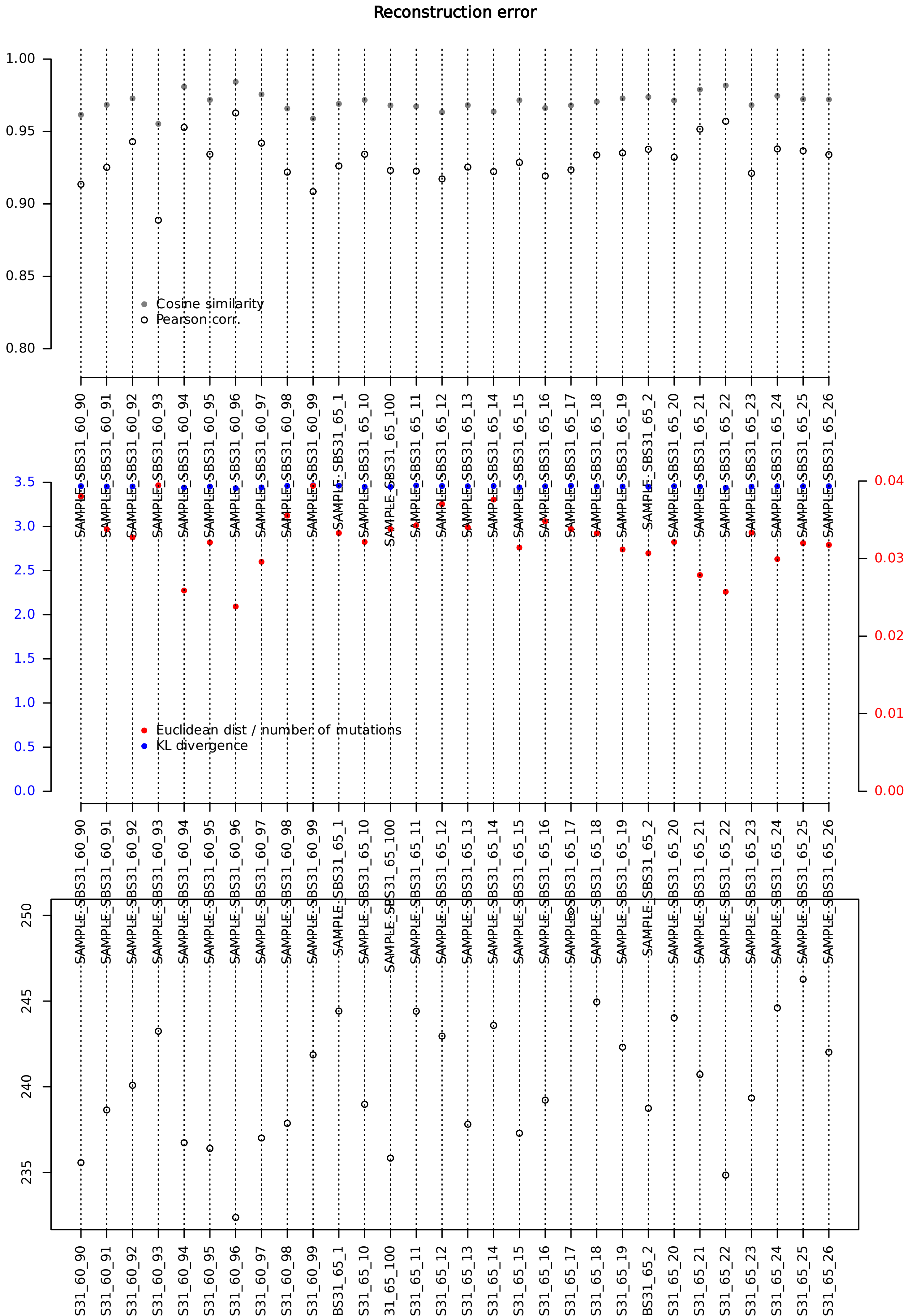


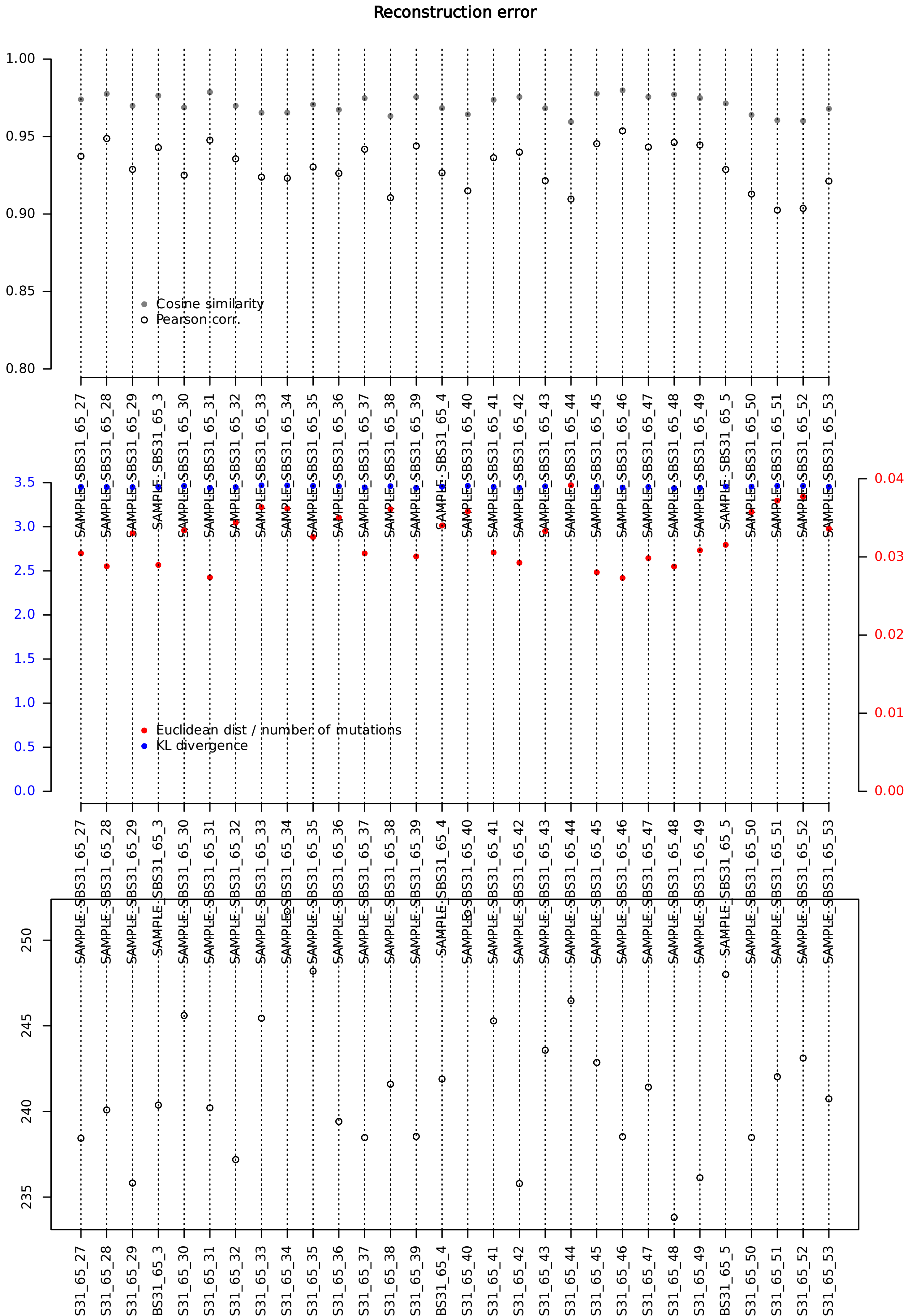
Reconstruction error

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
246
244
242
240
238
236
234
232
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
SAMPLE_SBS31_60_18
SAMPLE_SBS31_60_19
SAMPLE_SBS31_60_2
SAMPLE_SBS31_60_20
SAMPLE_SBS31_60_21
SAMPLE_SBS31_60_22
SAMPLE_SBS31_60_23
SAMPLE_SBS31_60_24
SAMPLE_SBS31_60_25
SAMPLE_SBS31_60_26
SAMPLE_SBS31_60_27
SAMPLE_SBS31_60_28
SAMPLE_SBS31_60_29
SAMPLE_SBS31_60_3
SAMPLE_SBS31_60_30
SAMPLE_SBS31_60_31
SAMPLE_SBS31_60_32
SAMPLE_SBS31_60_33
SAMPLE_SBS31_60_34
SAMPLE_SBS31_60_35


Reconstruction error
1.00
0.95
0.90
0.85
0.80
● Cosine similarity
○ Pearson corr.
SAMPLE-SBS31_60_36
SAMPLE-SBS31_60_37
SAMPLE-SBS31_60_38
SAMPLE-SBS31_60_39
SAMPLE-SBS31_60_4
SAMPLE-SBS31_60_40
SAMPLE-SBS31_60_41
SAMPLE-SBS31_60_42
SAMPLE-SBS31_60_43
SAMPLE-SBS31_60_44
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
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


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
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
246
244
242
240
238
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
SAMPLE-SBS31_60_72
SAMPLE-SBS31_60_73
SAMPLE-SBS31_60_74
SAMPLE-SBS31_60_75
SAMPLE-SBS31_60_76
SAMPLE-SBS31_60_77
SAMPLE-SBS31_60_78
SAMPLE-SBS31_60_79
SAMPLE-SBS31_60_8
SAMPLE-SBS31_60_80
SAMPLE-SBS31_60_81
SAMPLE-SBS31_60_82
SAMPLE-SBS31_60_83
SAMPLE-SBS31_60_84
SAMPLE-SBS31_60_85
SAMPLE-SBS31_60_86
SAMPLE-SBS31_60_87
SAMPLE-SBS31_60_88
SAMPLE-SBS31_60_89
SAMPLE-SBS31_60_9


Reconstruction error
1.00
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
SAMPLE-SBS31_60_90
SAMPLE-SBS31_60_91
SAMPLE-SBS31_60_92
SAMPLE-SBS31_60_93
SAMPLE-SBS31_60_94
SAMPLE-SBS31_60_95
SAMPLE-SBS31_60_96
SAMPLE-SBS31_60_97
SAMPLE-SBS31_60_98
SAMPLE-SBS31_60_99
SAMPLE-SBS31_65_1
SAMPLE-SBS31_65_10
SAMPLE-SBS31_65_100
SAMPLE-SBS31_65_11
SAMPLE-SBS31_65_12
SAMPLE-SBS31_65_13
SAMPLE-SBS31_65_14
SAMPLE-SBS31_65_15
SAMPLE-SBS31_65_16
SAMPLE-SBS31_65_17
SAMPLE-SBS31_65_18
SAMPLE-SBS31_65_19
SAMPLE-SBS31_65_2
SAMPLE-SBS31_65_20
SAMPLE-SBS31_65_21
SAMPLE-SBS31_65_22
SAMPLE-SBS31_65_23
SAMPLE-SBS31_65_24
SAMPLE-SBS31_65_25
SAMPLE-SBS31_65_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
250
245
240
235


Reconstruction error
1.00
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
SAMPLE_SBS31_65_27
SAMPLE_SBS31_65_28
SAMPLE_SBS31_65_29
SAMPLE_SBS31_65_3
SAMPLE_SBS31_65_30
SAMPLE_SBS31_65_31
SAMPLE_SBS31_65_32
SAMPLE_SBS31_65_33
SAMPLE_SBS31_65_34
SAMPLE_SBS31_65_35
SAMPLE_SBS31_65_36
SAMPLE_SBS31_65_37
SAMPLE_SBS31_65_38
SAMPLE_SBS31_65_39
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SAMPLE_SBS31_65_43
SAMPLE_SBS31_65_44
SAMPLE_SBS31_65_45
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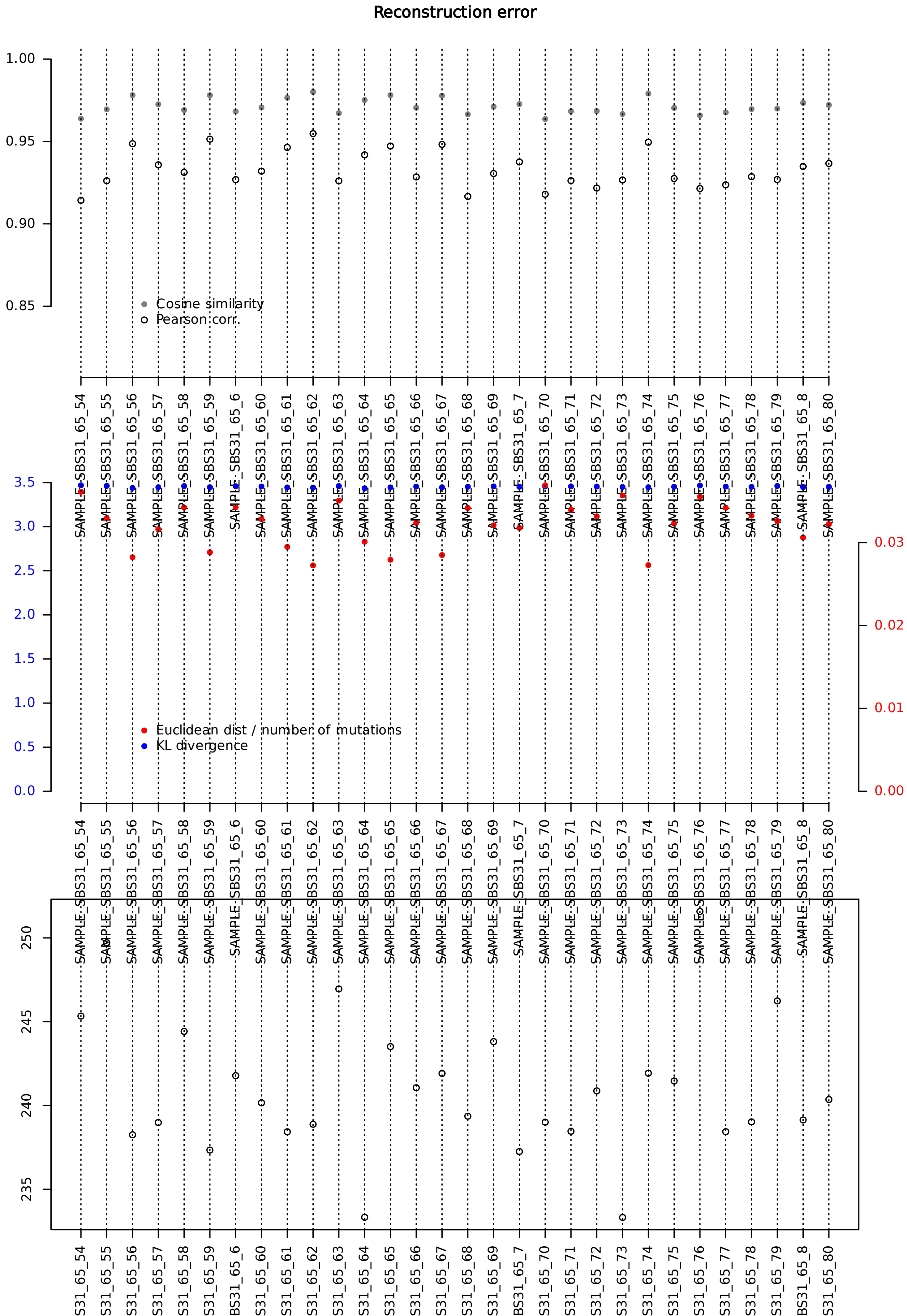
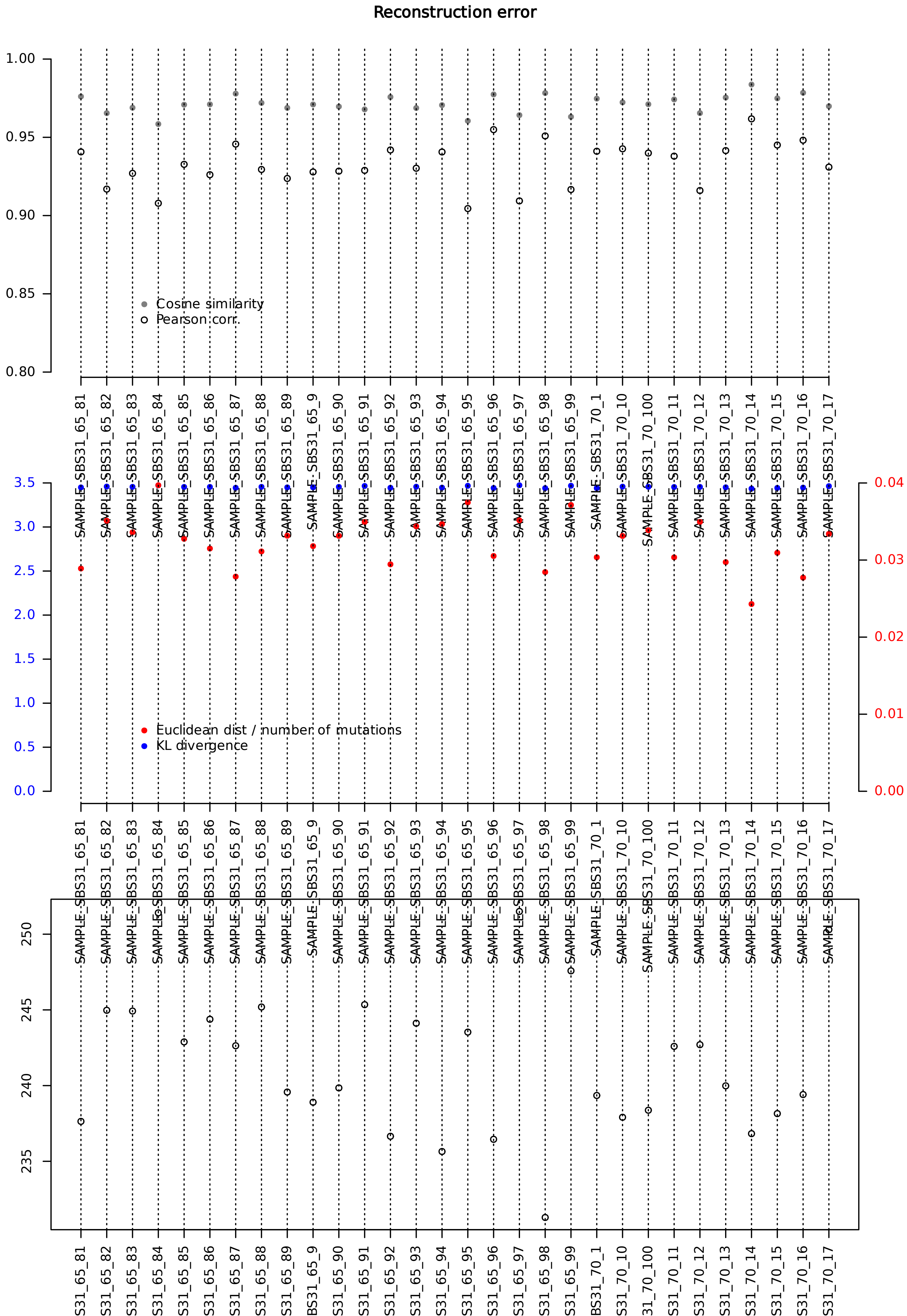
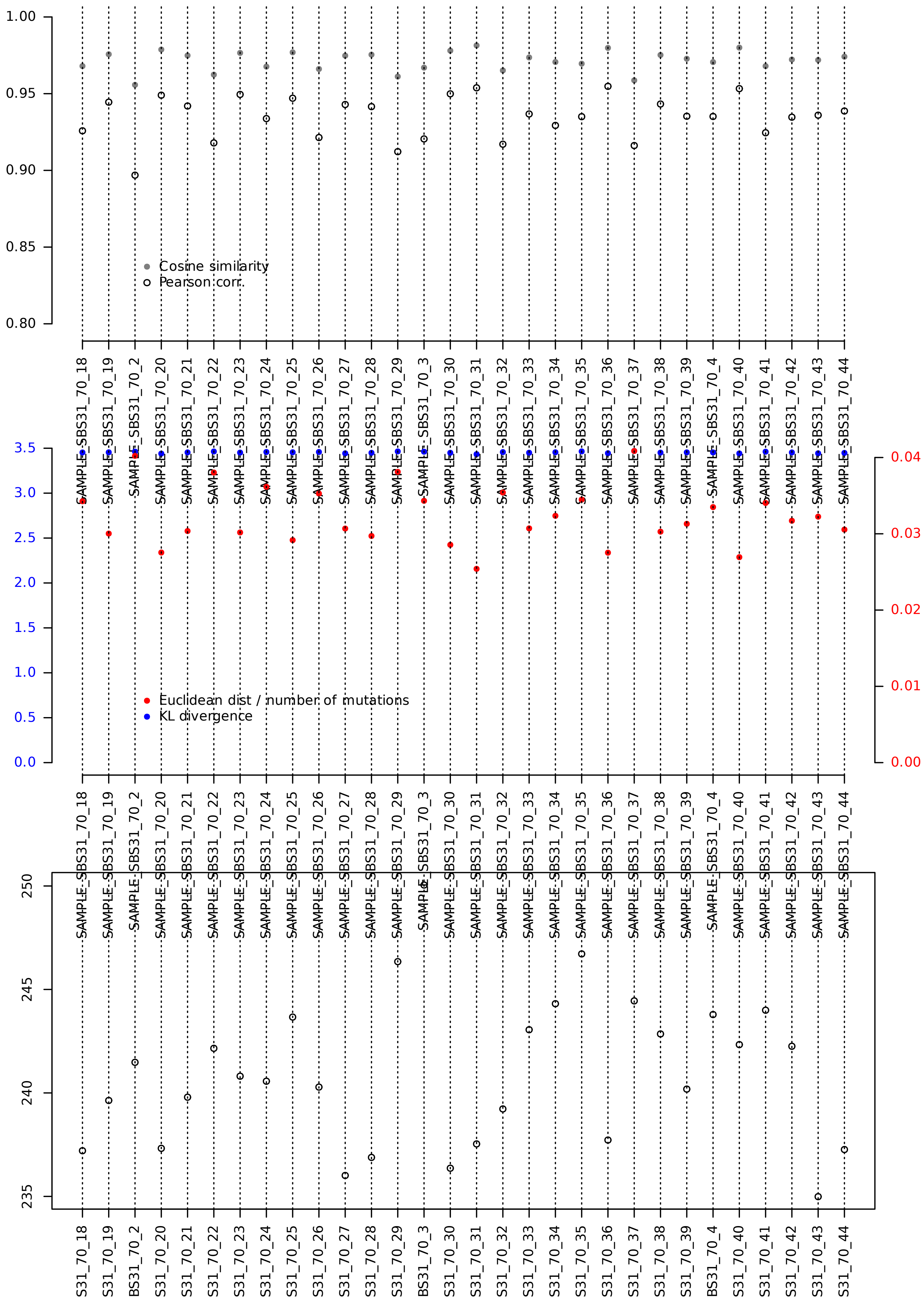
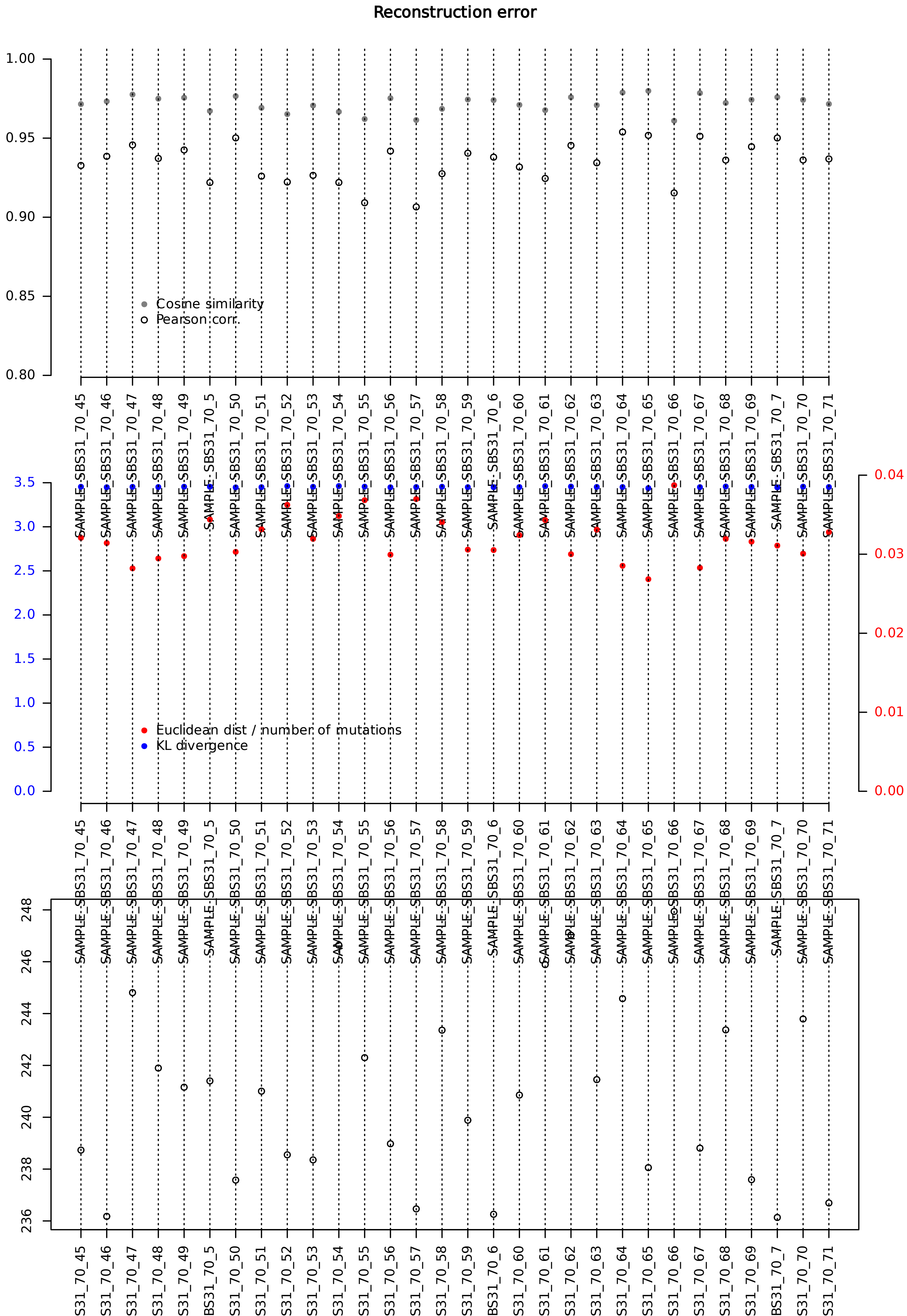
SAMPLE_SBS31_65_47
SAMPLE_SBS31_65_48
SAMPLE_SBS31_65_49
SAMPLE_SBS31_65_5
SAMPLE_SBS31_65_50
SAMPLE_SBS31_65_51
SAMPLE_SBS31_65_52
SAMPLE_SBS31_65_53
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
250
245
240
235

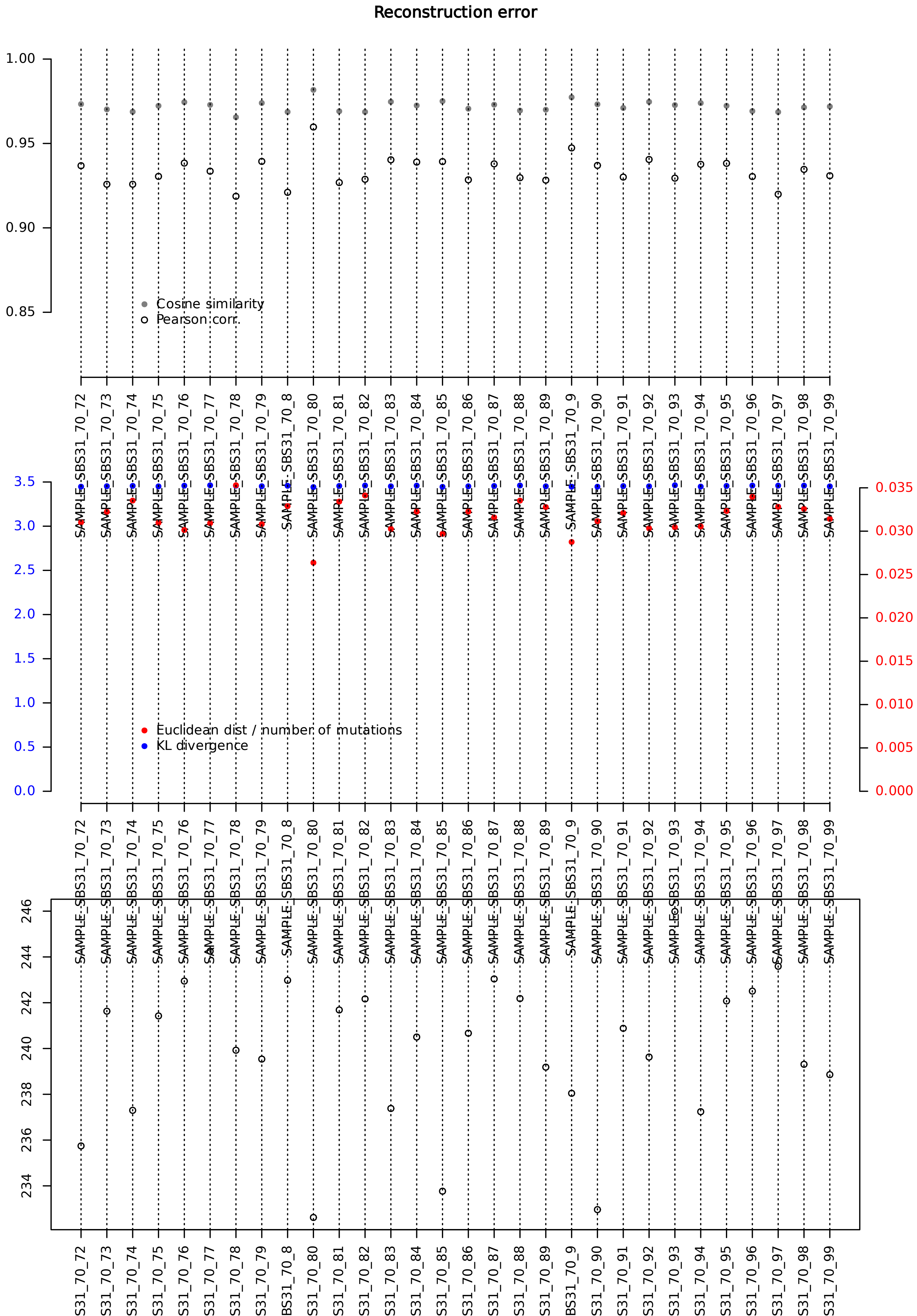

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
250
245
240
235
SAMPLE-SBS31_65_54
SAMPLE-SBS31_65_55
SAMPLE-SBS31_65_56
SAMPLE-SBS31_65_57
SAMPLE-SBS31_65_58
SAMPLE-SBS31_65_59
SAMPLE-SBS31_65_6
SAMPLE-SBS31_65_60
SAMPLE-SBS31_65_61
SAMPLE-SBS31_65_62
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


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
250
245
240
235
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
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

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
248
246
244
242
240
238
236
SAMPLE-SBS31_70_45
SAMPLE-SBS31_70_46
SAMPLE-SBS31_70_47
SAMPLE-SBS31_70_48
SAMPLE-SBS31_70_49
SAMPLE-SBS31_70_5
SAMPLE-SBS31_70_50
SAMPLE-SBS31_70_51
SAMPLE-SBS31_70_52
SAMPLE-SBS31_70_53
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
SAMPLE-SBS31_70_65
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


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
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
Euclidean dist / number of mutations
KL divergence
246
244
242
240
238
236
234
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
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
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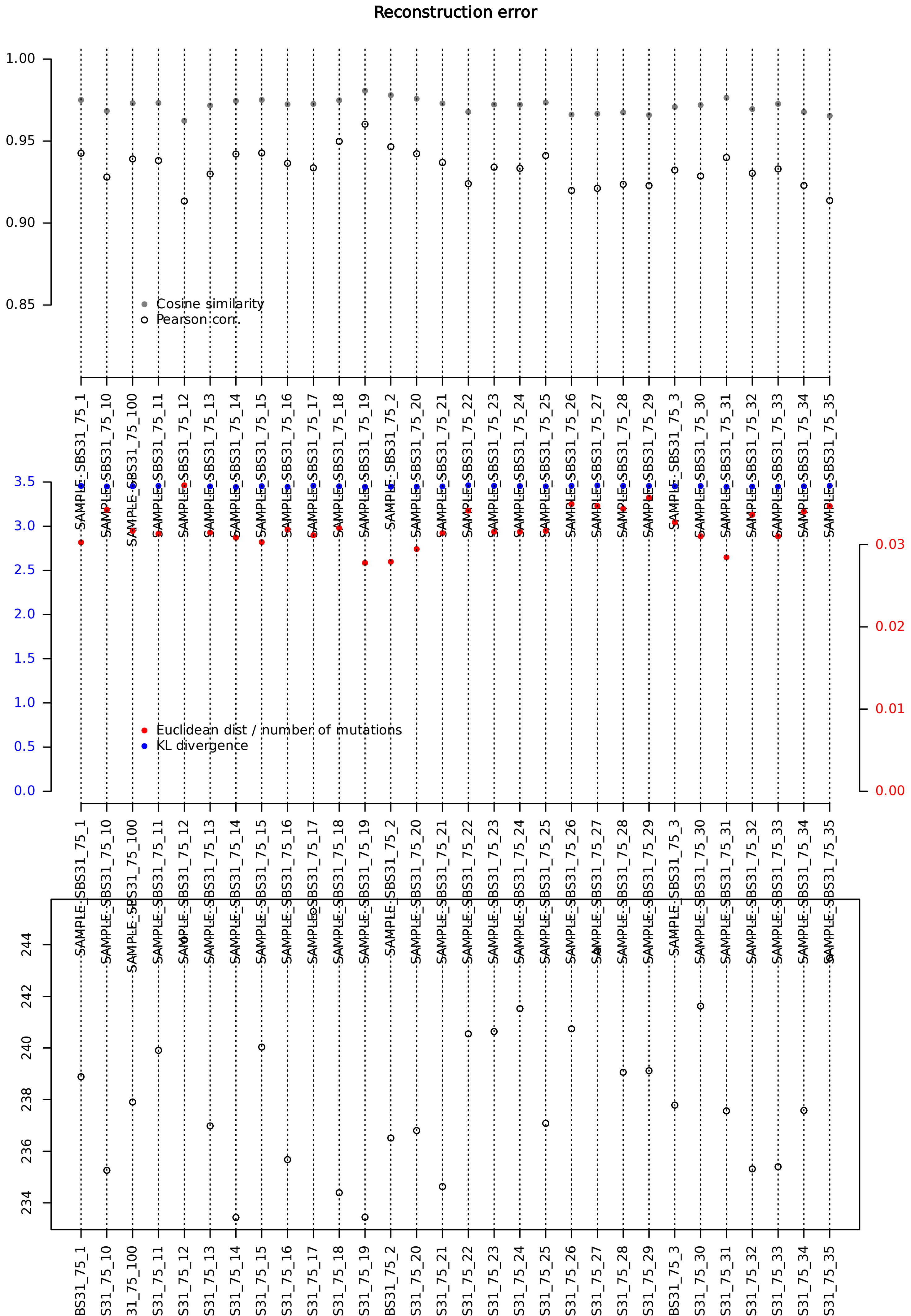
SAMPLE-SBS31_70_96
SAMPLE-SBS31_70_97
SAMPLE-SBS31_70_98
SAMPLE-SBS31_70_99


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
0.03
0.02
0.01
0.00
● Euclidean dist / number of mutations
● KL divergence
244
242
240
238
236
234
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
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
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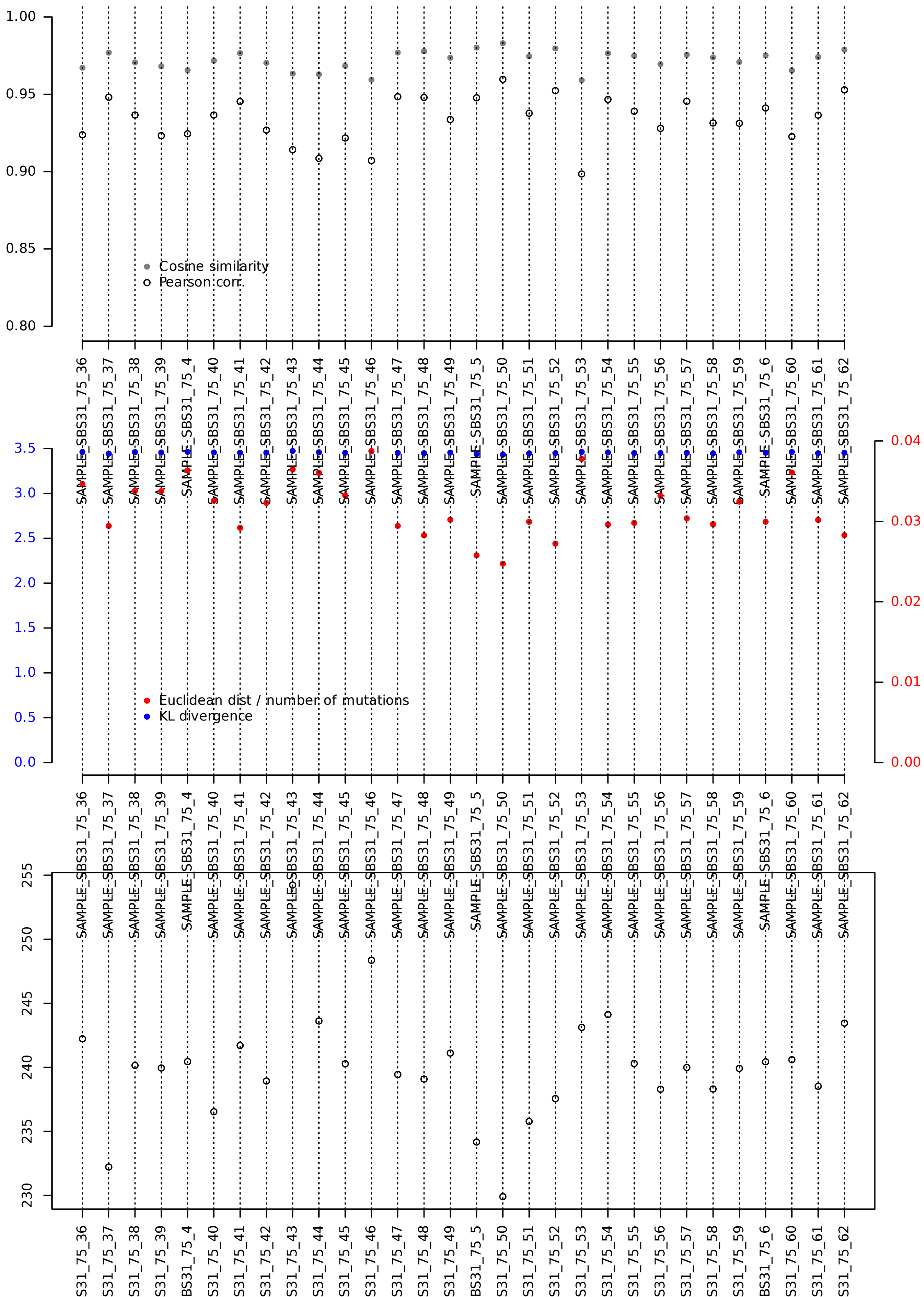
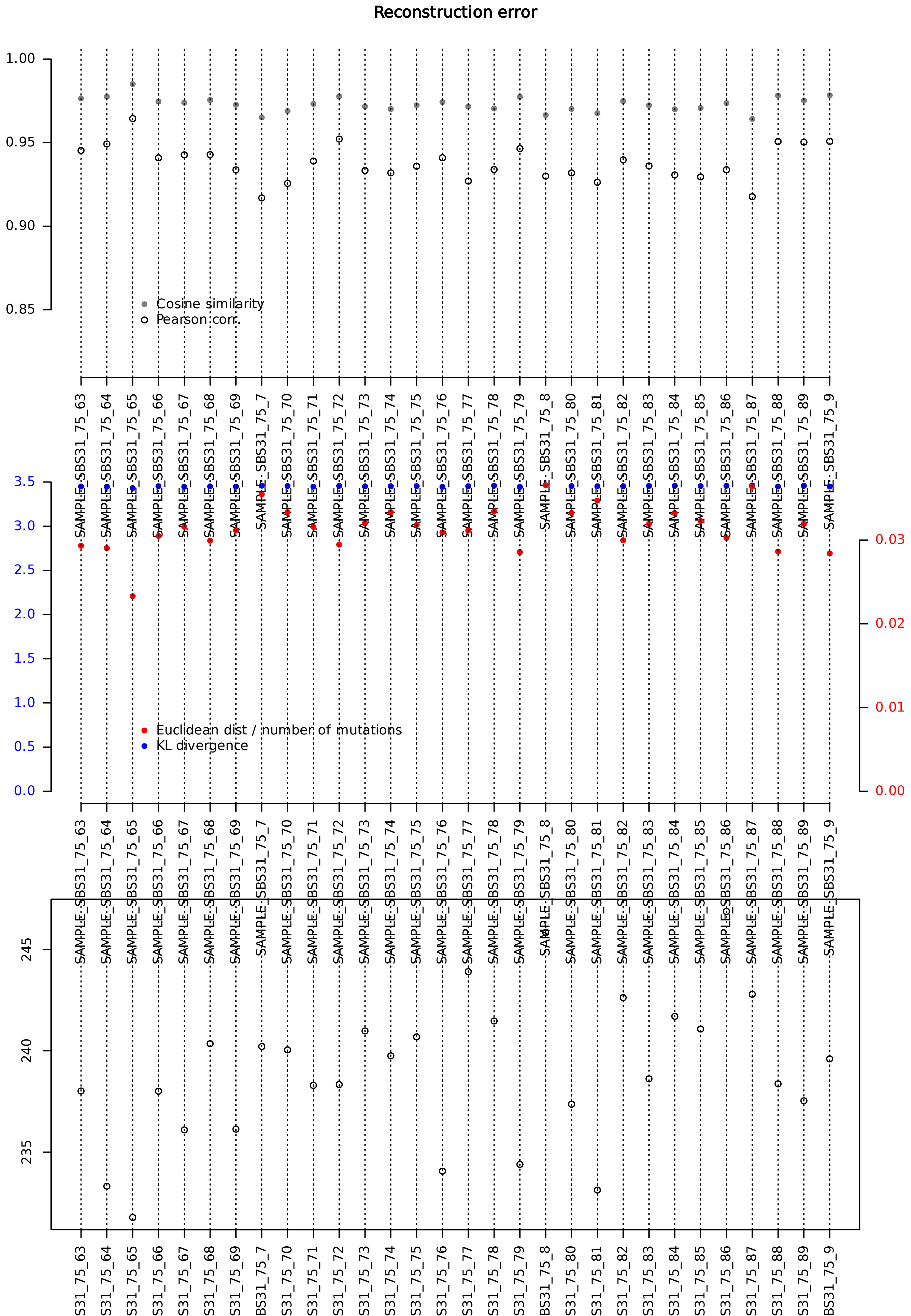
SAMPLE-SBS31_75_32
SAMPLE-SBS31_75_33
SAMPLE-SBS31_75_34
SAMPLE-SBS31_75_35



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
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
245
240
235
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
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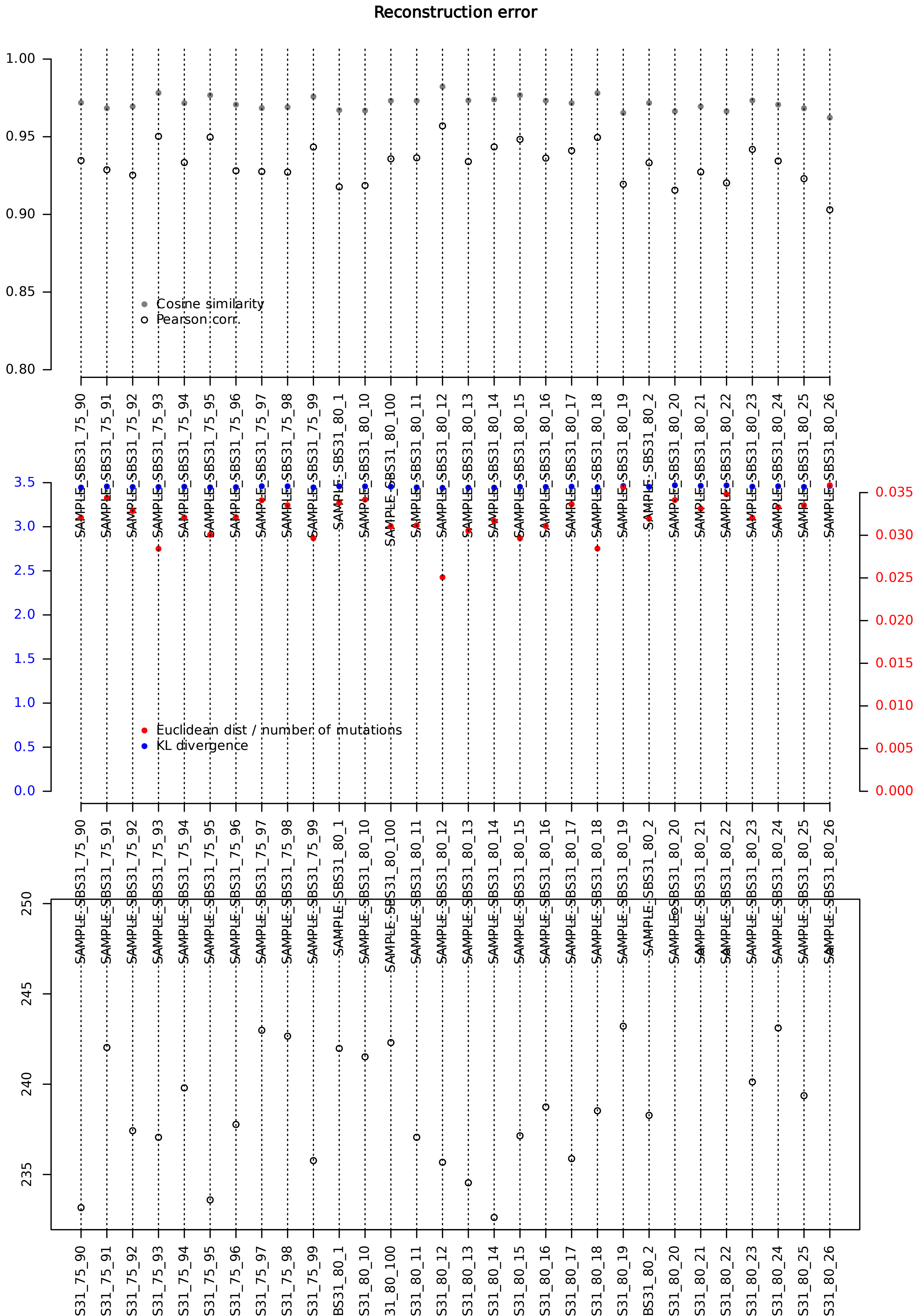
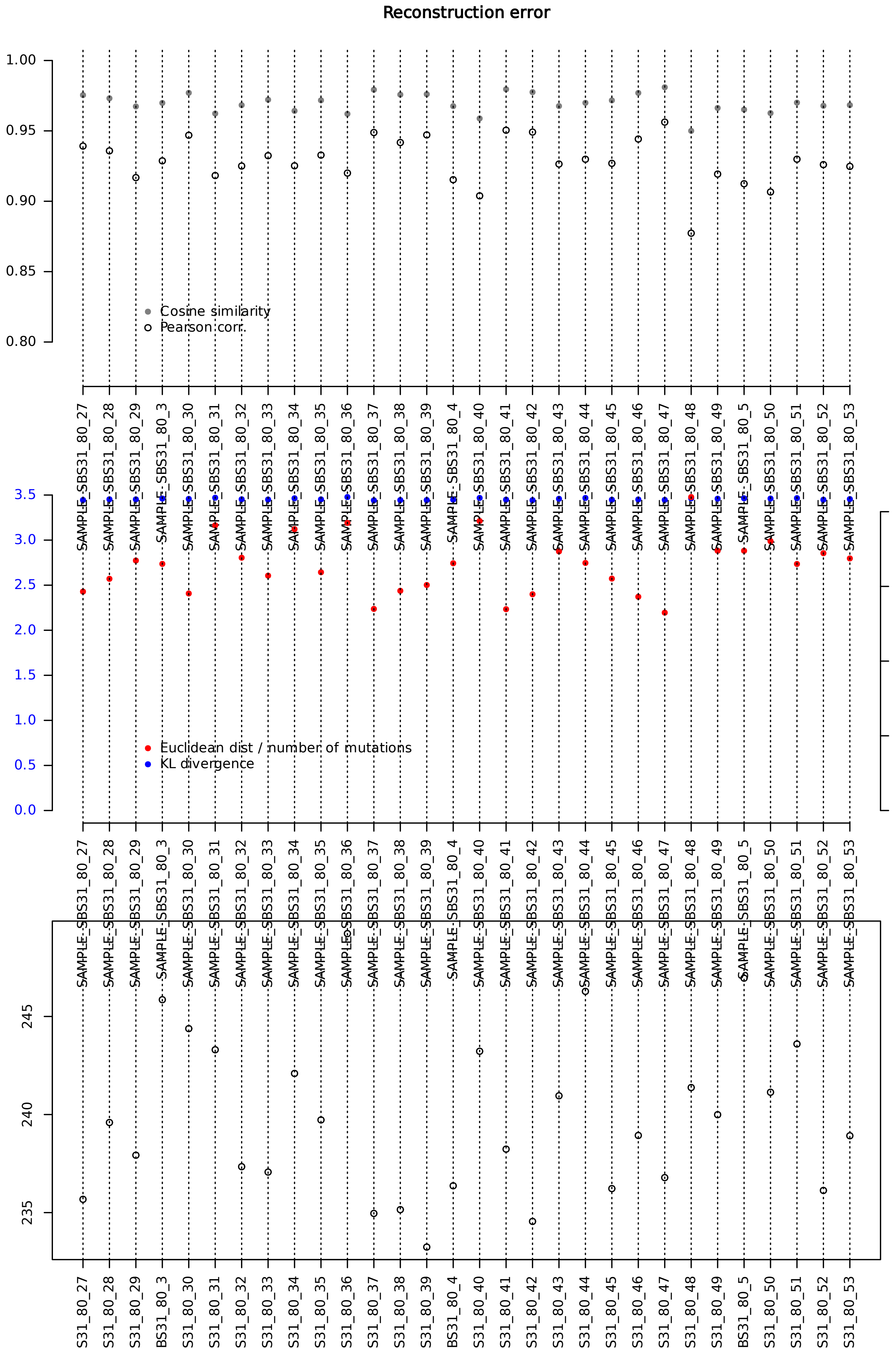
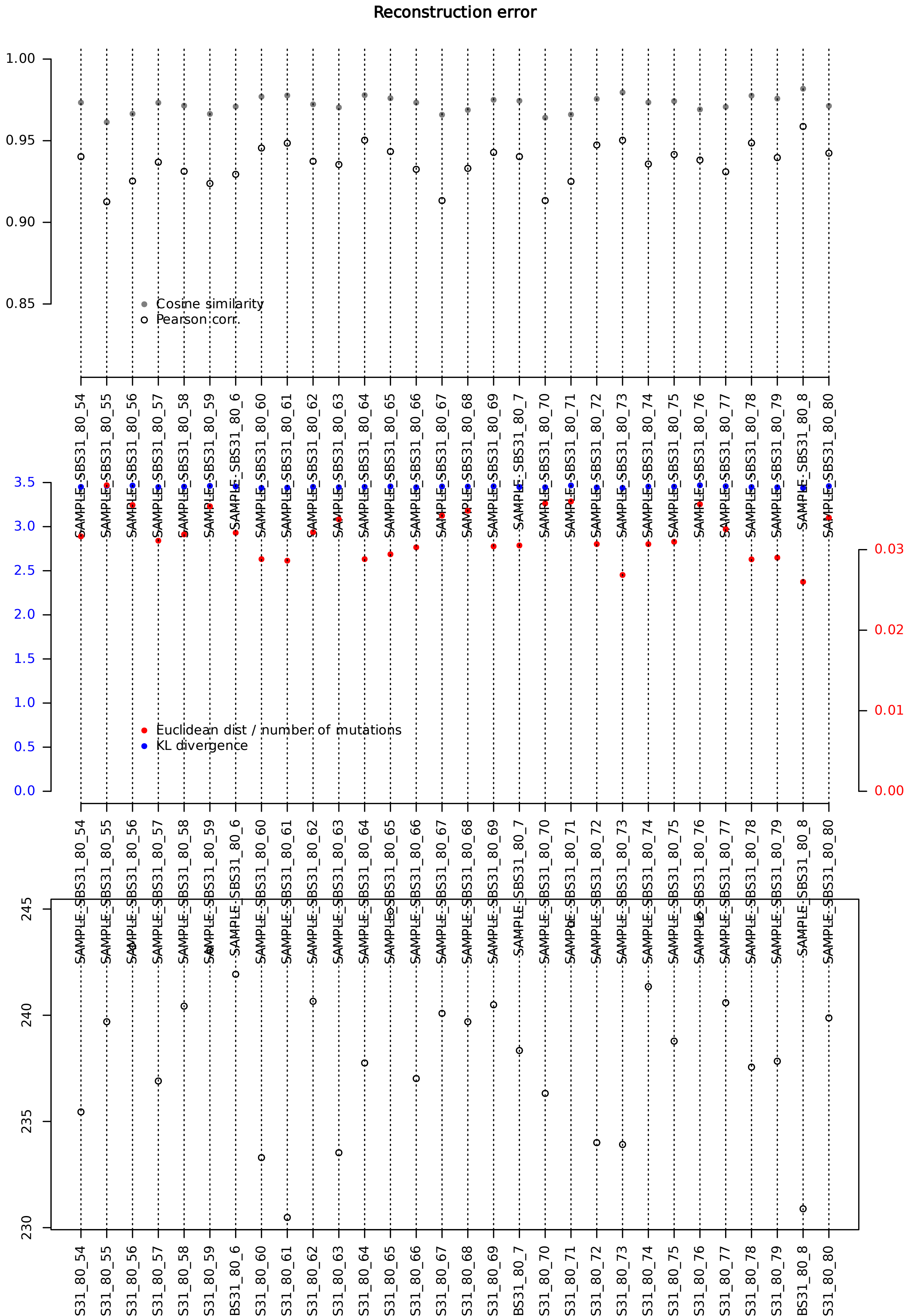
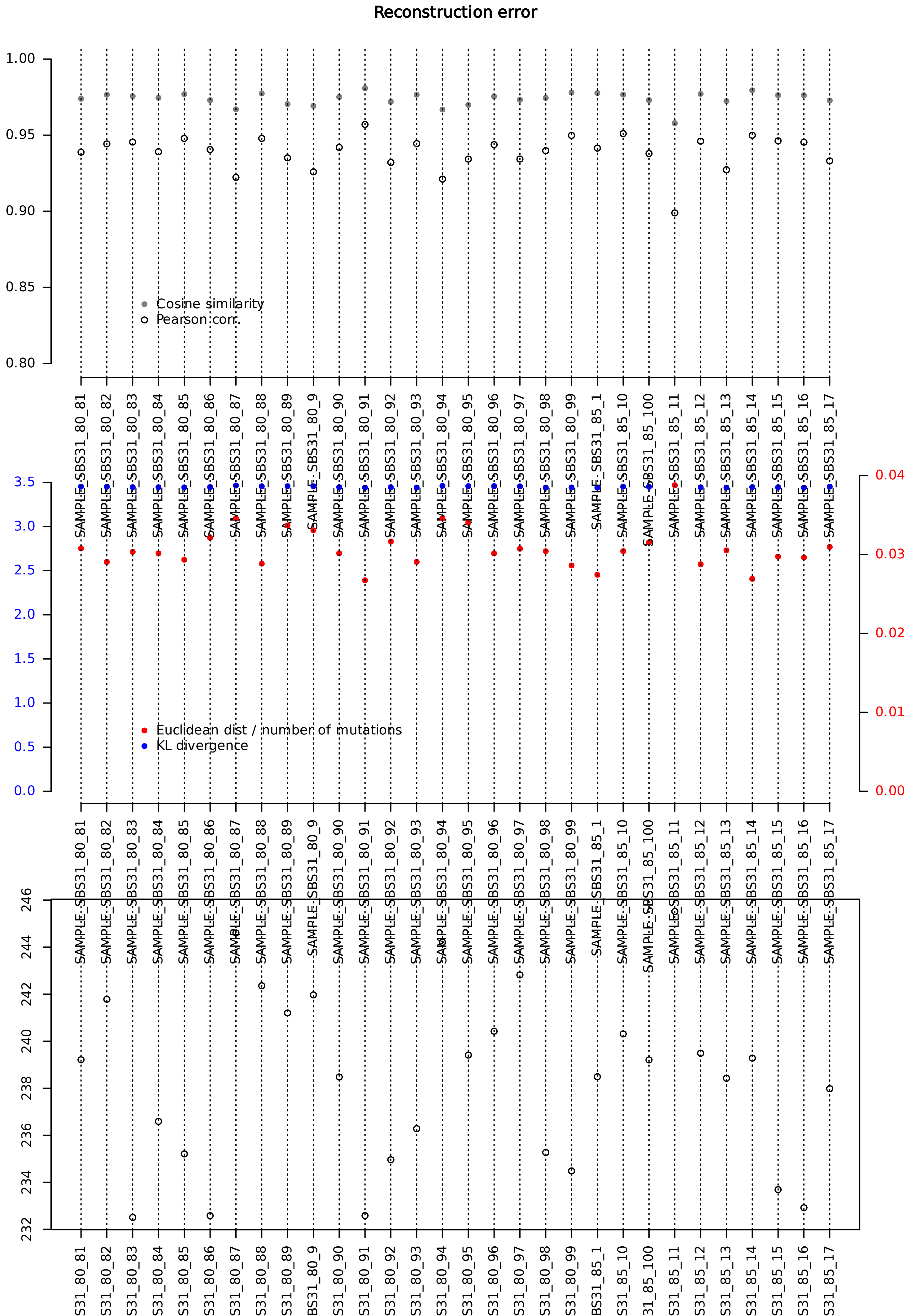
SAMPLE-SBS31_75_79
SAMPLE-SBS31_75_8
SAMPLE-SBS31_75_80
SAMPLE-SBS31_75_81
SAMPLE-SBS31_75_82
SAMPLE-SBS31_75_83
SAMPLE-SBS31_75_84
SAMPLE-SBS31_75_85
SAMPLE-SBS31_75_86
SAMPLE-SBS31_75_87
SAMPLE-SBS31_75_88
SAMPLE-SBS31_75_89
SAMPLE-SBS31_75_9

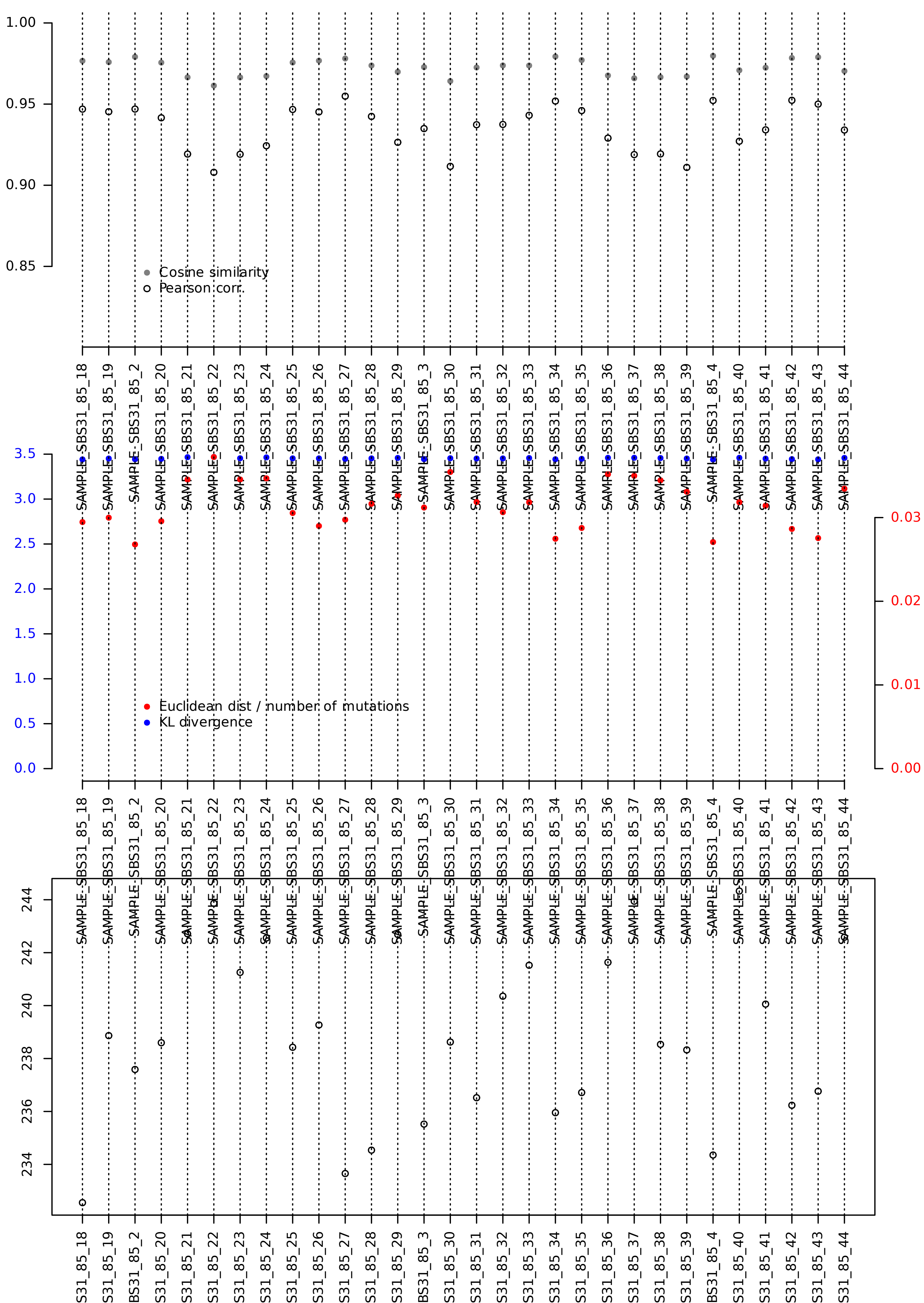

Reconstruction error
1.00
0.95
0.90
0.85
0.80
● Cosine similarity
○ Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
● Euclidean dist / number of mutations
● KL divergence
250
245
240
235
SAMPLE_SBS31_75_90
SAMPLE_SBS31_75_91
SAMPLE_SBS31_75_92
SAMPLE_SBS31_75_93
SAMPLE_SBS31_75_94
SAMPLE_SBS31_75_95
SAMPLE_SBS31_75_96
SAMPLE_SBS31_75_97
SAMPLE_SBS31_75_98
SAMPLE_SBS31_75_99
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

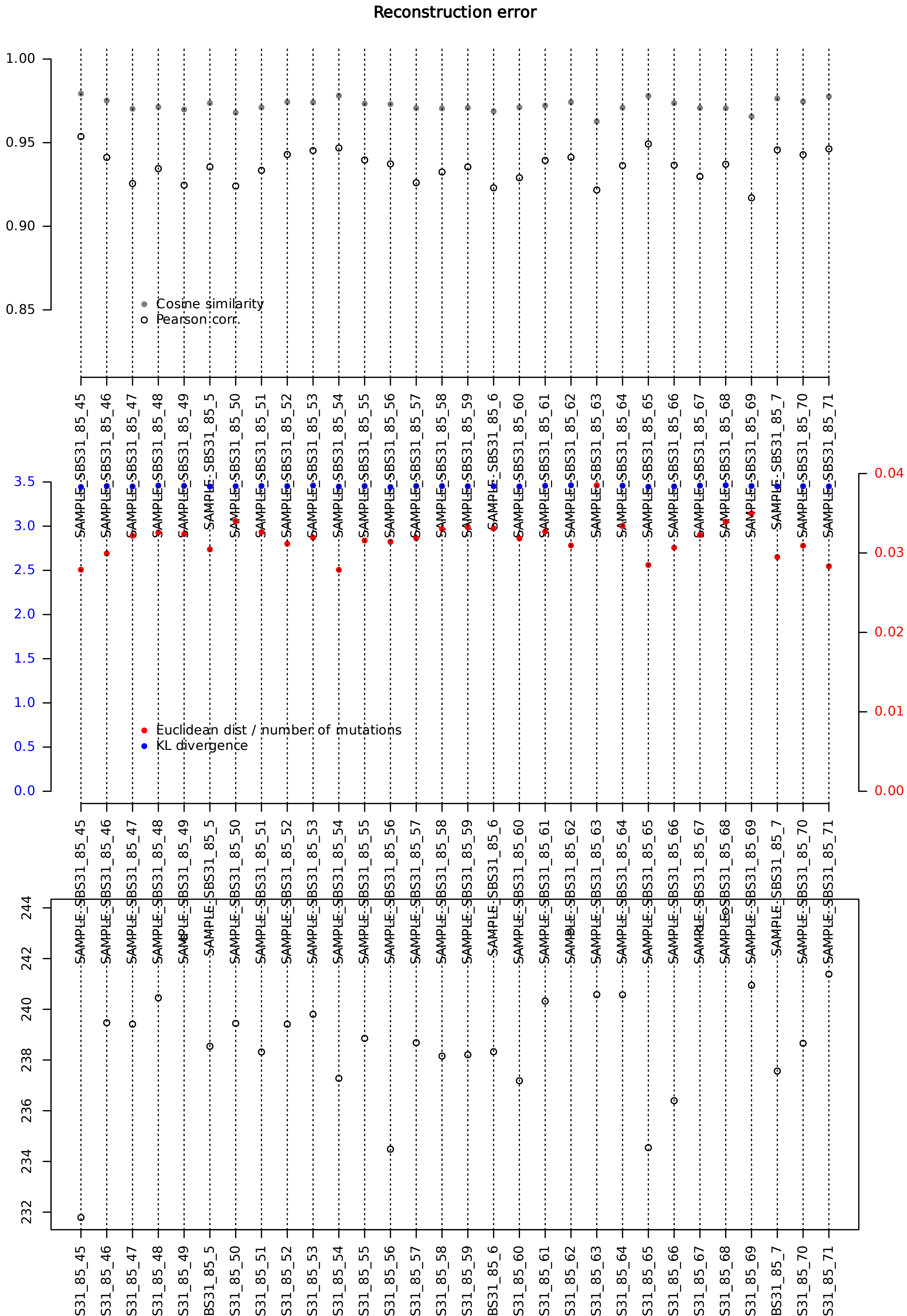

Reconstruction error
1.00
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
245
240
235
SAMPLE-SBS31_80_27
SAMPLE-SBS31_80_28
SAMPLE-SBS31_80_29
SAMPLE-SBS31_80_3
SAMPLE-SBS31_80_30
SAMPLE-SBS31_80_31
SAMPLE-SBS31_80_32
SAMPLE-SBS31_80_33
SAMPLE-SBS31_80_34
SAMPLE-SBS31_80_35
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

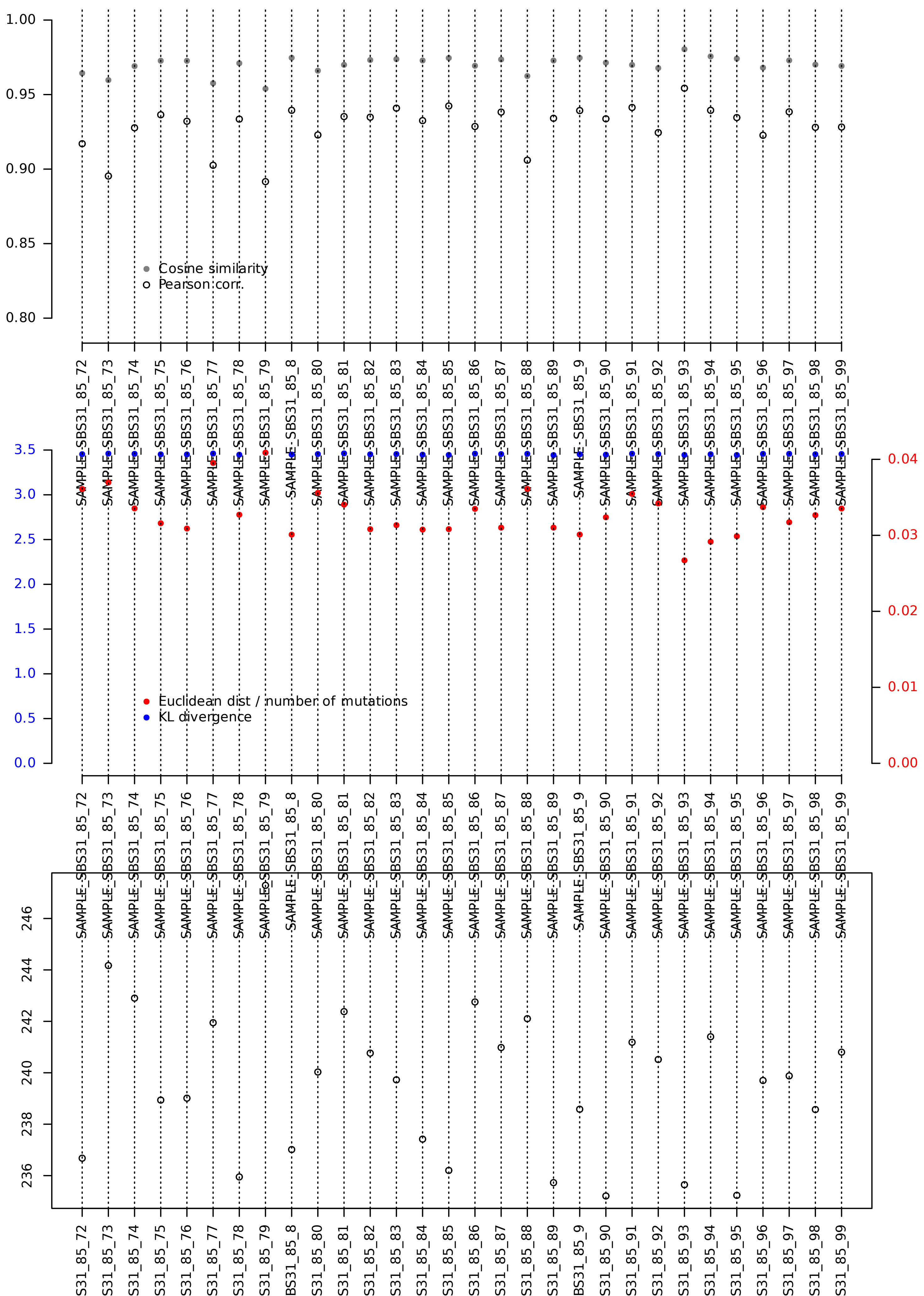

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
245
240
235
230
SAMPLE_SBS31_80_54
SAMPLE_SBS31_80_55
SAMPLE_SBS31_80_56
SAMPLE_SBS31_80_57
SAMPLE_SBS31_80_58
SAMPLE_SBS31_80_59
SAMPLE_SBS31_80_6
SAMPLE_SBS31_80_60
SAMPLE_SBS31_80_61
SAMPLE_SBS31_80_62
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

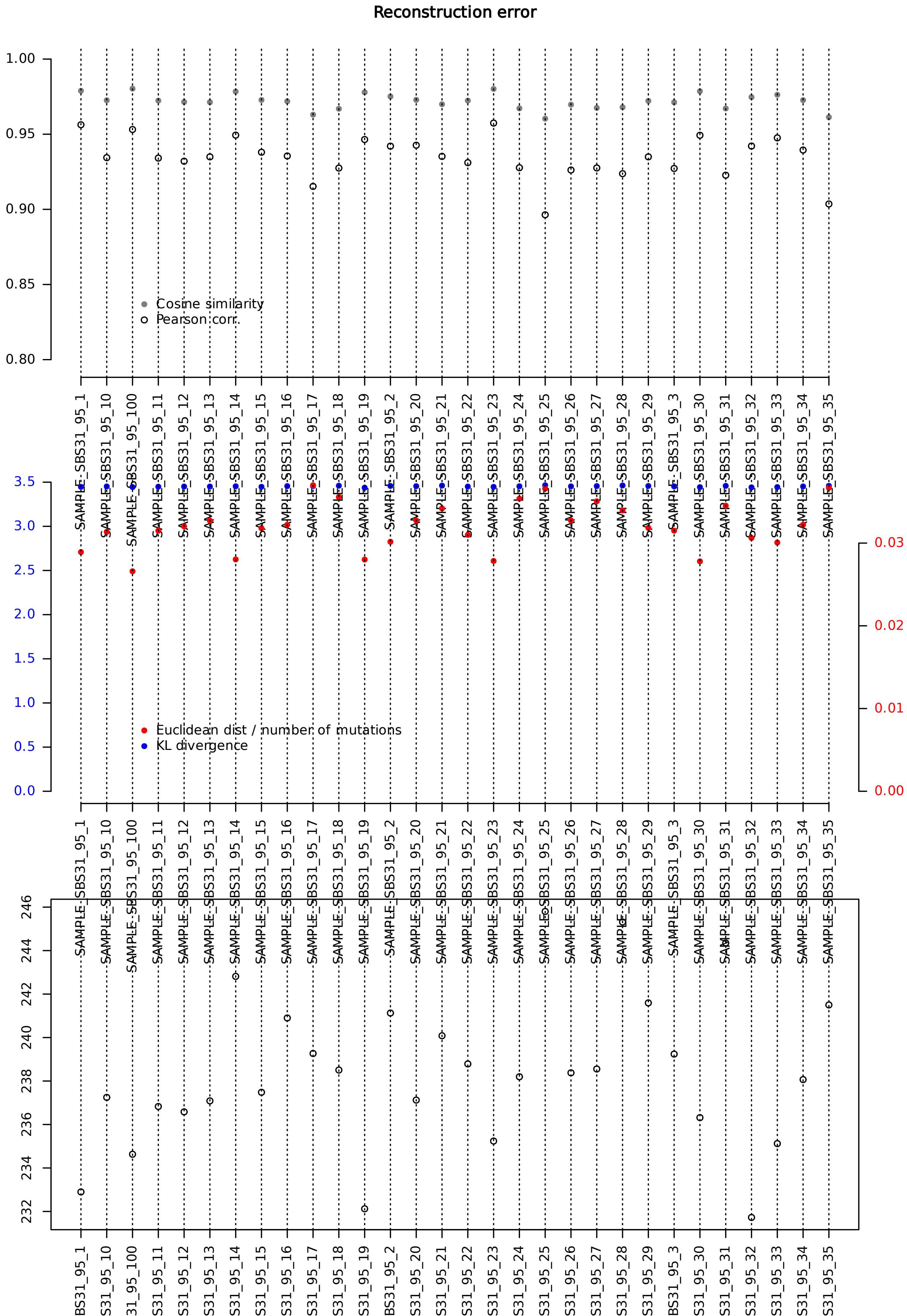

Reconstruction error
1.00
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
246
244
242
240
238
236
234
232
SAMPLE-SBS31_80_81
SAMPLE-SBS31_80_82
SAMPLE-SBS31_80_83
SAMPLE-SBS31_80_84
SAMPLE-SBS31_80_85
SAMPLE-SBS31_80_86
SAMPLE-SBS31_80_87
SAMPLE-SBS31_80_88
SAMPLE-SBS31_80_89
SAMPLE-SBS31_80_9
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

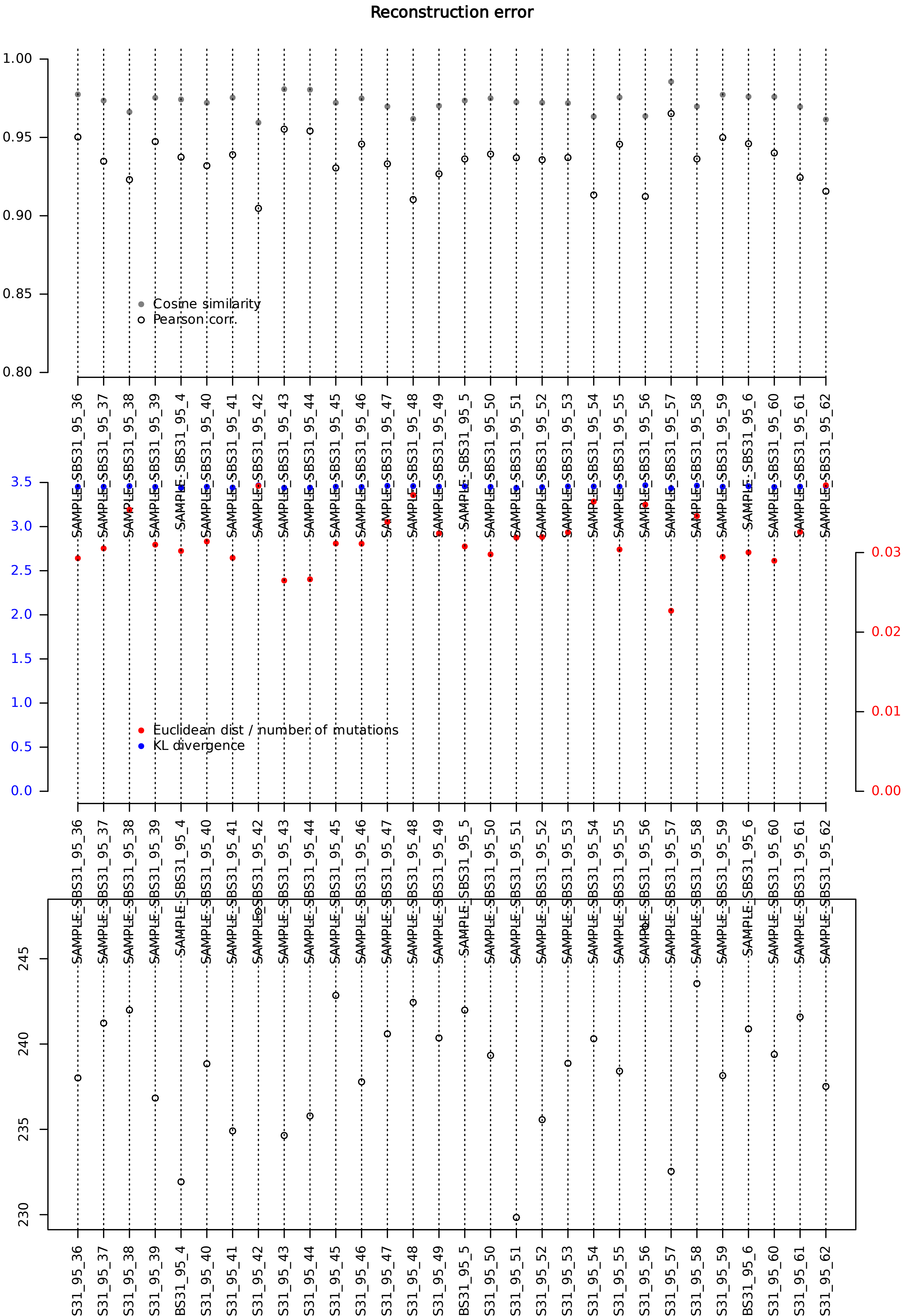
Reconstruction error

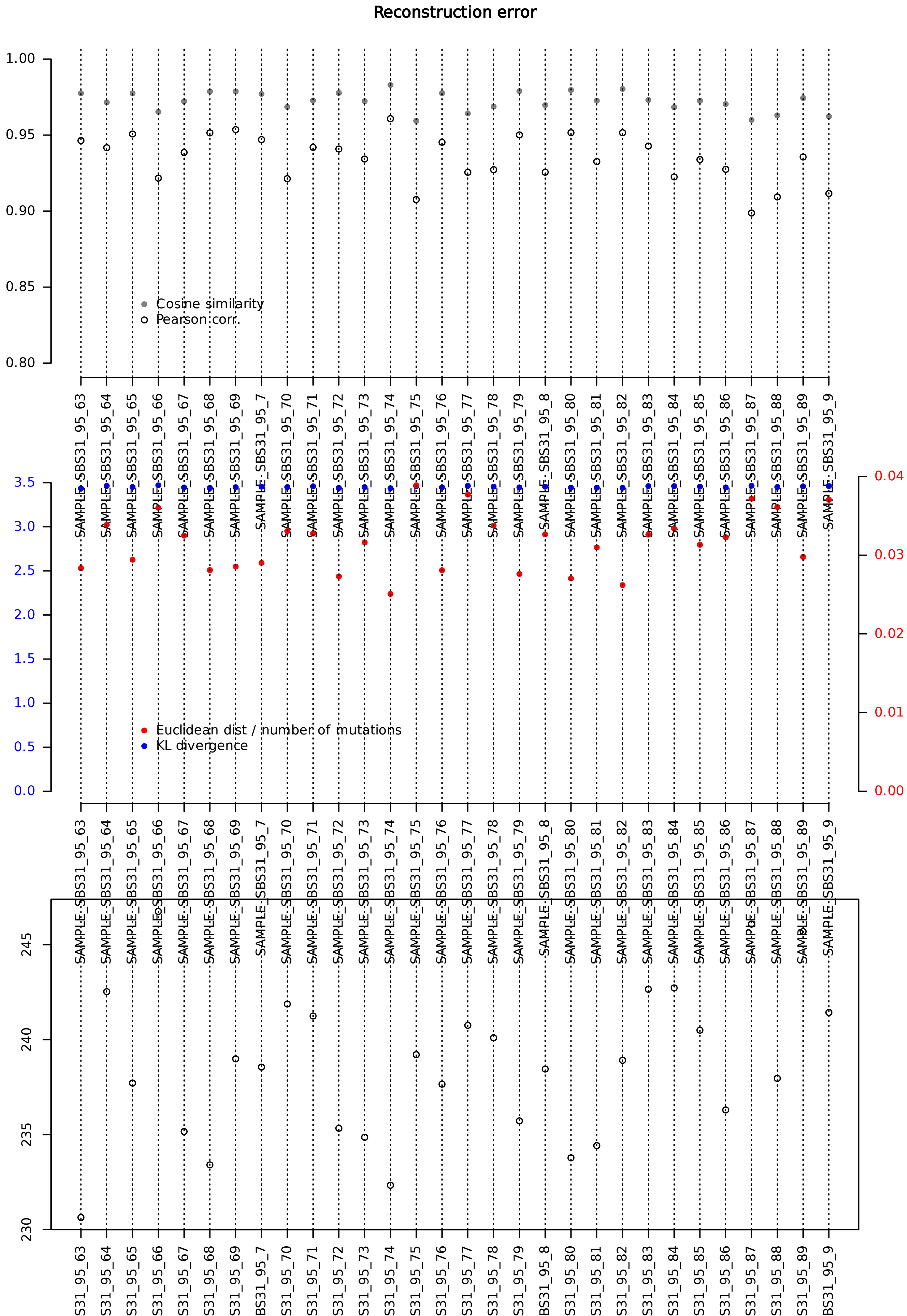


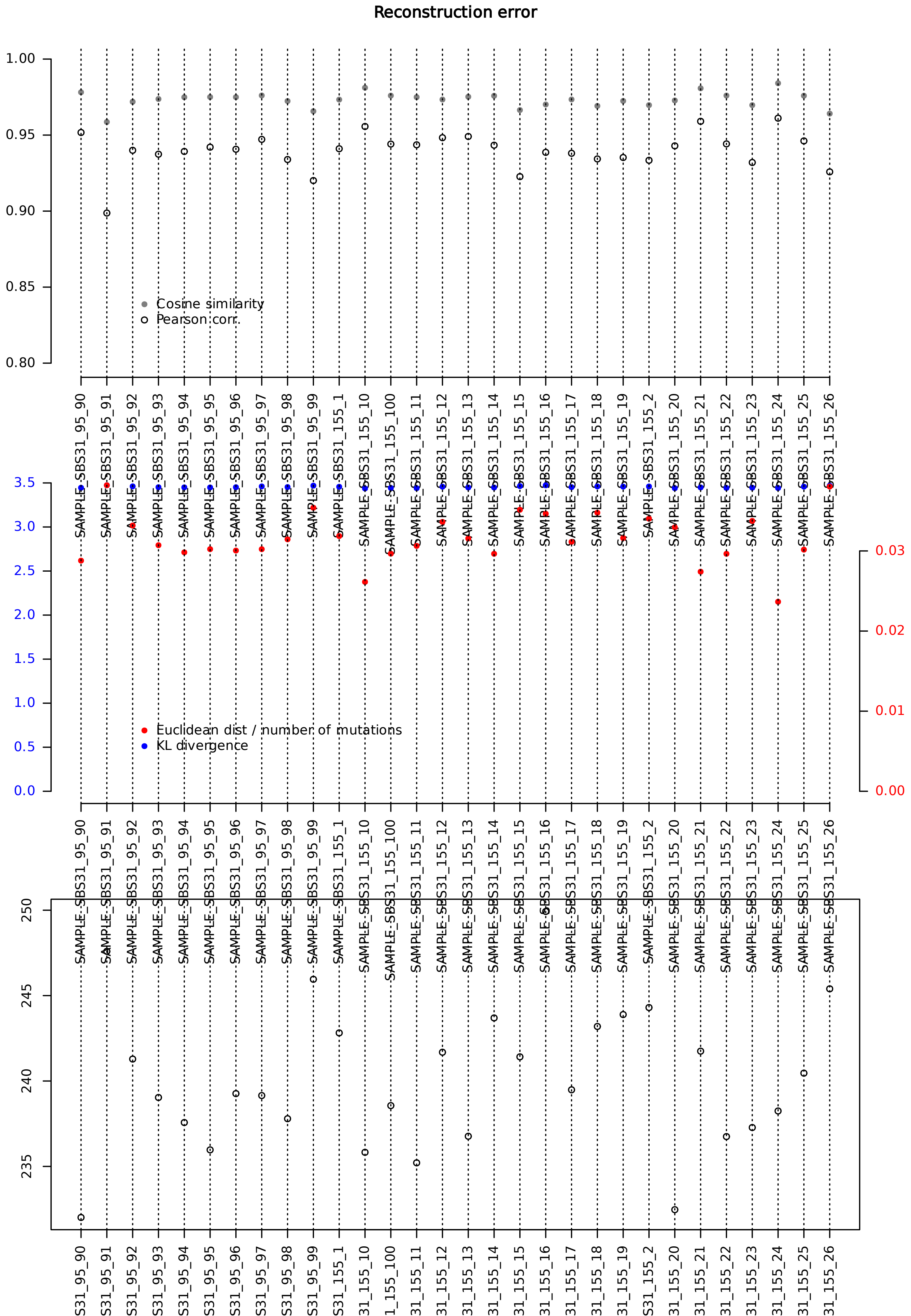

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
244
242
240
238
236
234
232
SAMPLE-SBS31_85_45
SAMPLE-SBS31_85_46
SAMPLE-SBS31_85_47
SAMPLE-SBS31_85_48
SAMPLE-SBS31_85_49
SAMPLE-SBS31_85_5
SAMPLE-SBS31_85_50
SAMPLE-SBS31_85_51
SAMPLE-SBS31_85_52
SAMPLE-SBS31_85_53
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


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
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
246
244
242
240
238
236
234
232
SAMPLE_SBS31_95_1
SAMPLE_SBS31_95_10
SAMPLE_SBS31_95_100
SAMPLE_SBS31_95_11
SAMPLE_SBS31_95_12
SAMPLE_SBS31_95_13
SAMPLE_SBS31_95_14
SAMPLE_SBS31_95_15
SAMPLE_SBS31_95_16
SAMPLE_SBS31_95_17
SAMPLE_SBS31_95_18
SAMPLE_SBS31_95_19
SAMPLE_SBS31_95_2
SAMPLE_SBS31_95_20
SAMPLE_SBS31_95_21
SAMPLE_SBS31_95_22
SAMPLE_SBS31_95_23
SAMPLE_SBS31_95_24
SAMPLE_SBS31_95_25
SAMPLE_SBS31_95_26
SAMPLE_SBS31_95_27
SAMPLE_SBS31_95_28
SAMPLE_SBS31_95_29
SAMPLE_SBS31_95_3
SAMPLE_SBS31_95_30
SAMPLE_SBS31_95_31
SAMPLE_SBS31_95_32
SAMPLE_SBS31_95_33
SAMPLE_SBS31_95_34
SAMPLE_SBS31_95_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
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
245
240
235
230
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
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
245
240
235
230
SAMPLE-SBS31_95_63
SAMPLE-SBS31_95_64
SAMPLE-SBS31_95_65
SAMPLE-SBS31_95_66
SAMPLE-SBS31_95_67
SAMPLE-SBS31_95_68
SAMPLE-SBS31_95_69
SAMPLE-SBS31_95_7
SAMPLE-SBS31_95_70
SAMPLE-SBS31_95_71
SAMPLE-SBS31_95_72
SAMPLE-SBS31_95_73
SAMPLE-SBS31_95_74
SAMPLE-SBS31_95_75
SAMPLE-SBS31_95_76
SAMPLE-SBS31_95_77
SAMPLE-SBS31_95_78
SAMPLE-SBS31_95_79
SAMPLE-SBS31_95_8
SAMPLE-SBS31_95_80
SAMPLE-SBS31_95_81
SAMPLE-SBS31_95_82
SAMPLE-SBS31_95_83
SAMPLE-SBS31_95_84
SAMPLE-SBS31_95_85
SAMPLE-SBS31_95_86
SAMPLE-SBS31_95_87
SAMPLE-SBS31_95_88
SAMPLE-SBS31_95_89
SAMPLE-SBS31_95_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
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
250
245
240
235
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
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
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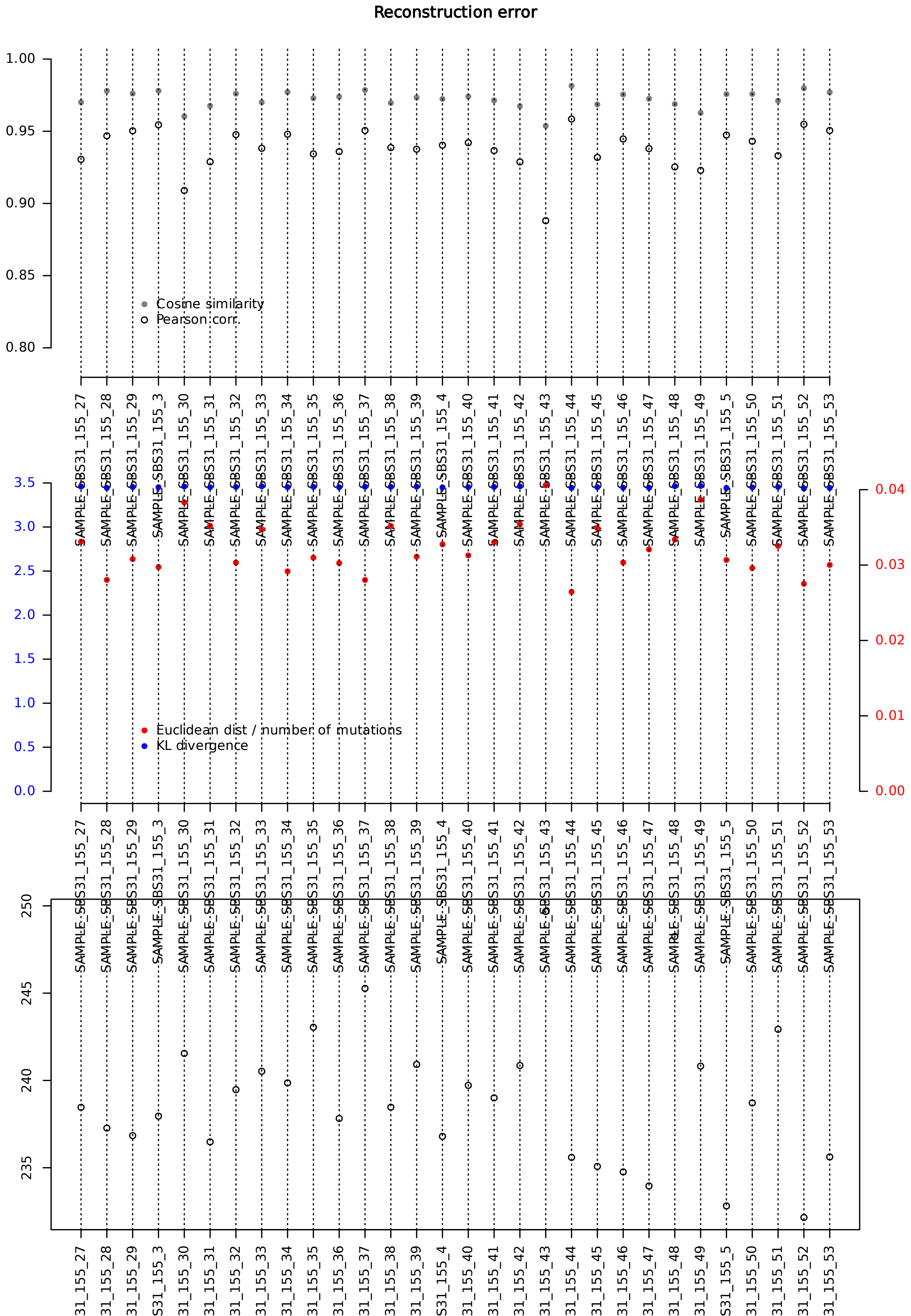
SAMPLE-SBS31_155_23
SAMPLE-SBS31_155_24
SAMPLE-SBS31_155_25
SAMPLE-SBS31_155_26


Reconstruction error
1.00
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
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
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SAMPLE-SBS31_155_5
SAMPLE-SBS31_155_50
SAMPLE-SBS31_155_51
SAMPLE-SBS31_155_52
SAMPLE-SBS31_155_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
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
250
245
240
235
31_155_27
31_155_28
31_155_29
S31_155_3
31_155_30
31_155_31
31_155_32
31_155_33
31_155_34
31_155_35
31_155_36
31_155_37
31_155_38
31_155_39
S31_155_4
31_155_40
31_155_41
31_155_42
31_155_43
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31_155_45
31_155_46
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S31_155_5
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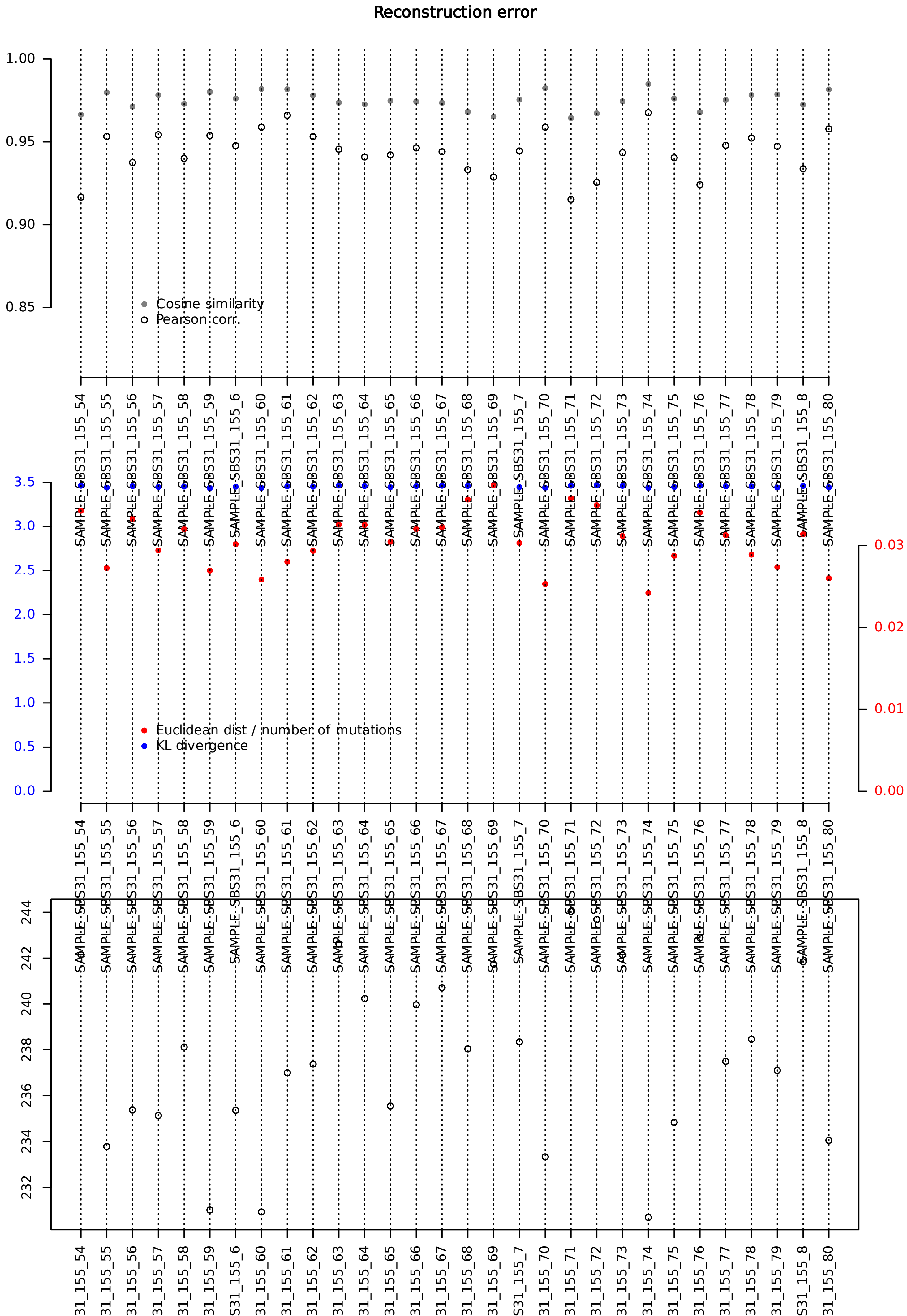
31_155_52
31_155_53


Reconstruction error
1.00
0.95
0.90
0.85
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
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
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
244
242
240
238
236
234
232
31_155_54
31_155_55
31_155_56
31_155_57
31_155_58
31_155_59
S31_155_6
31_155_60
31_155_61
31_155_62
31_155_63
31_155_64
31_155_65
31_155_66
31_155_67
31_155_68
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S31_155_7
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31_155_71
31_155_72
31_155_73
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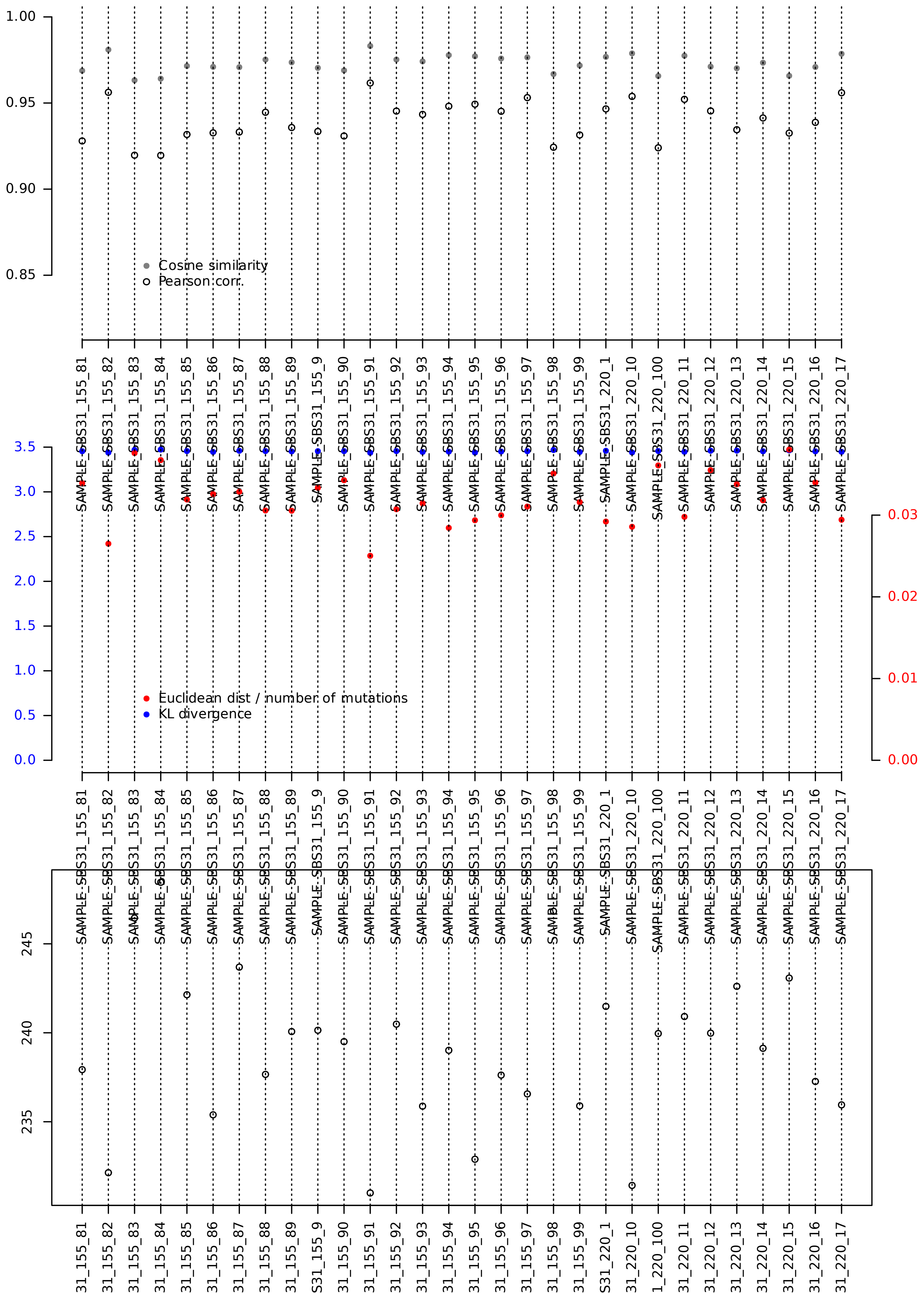
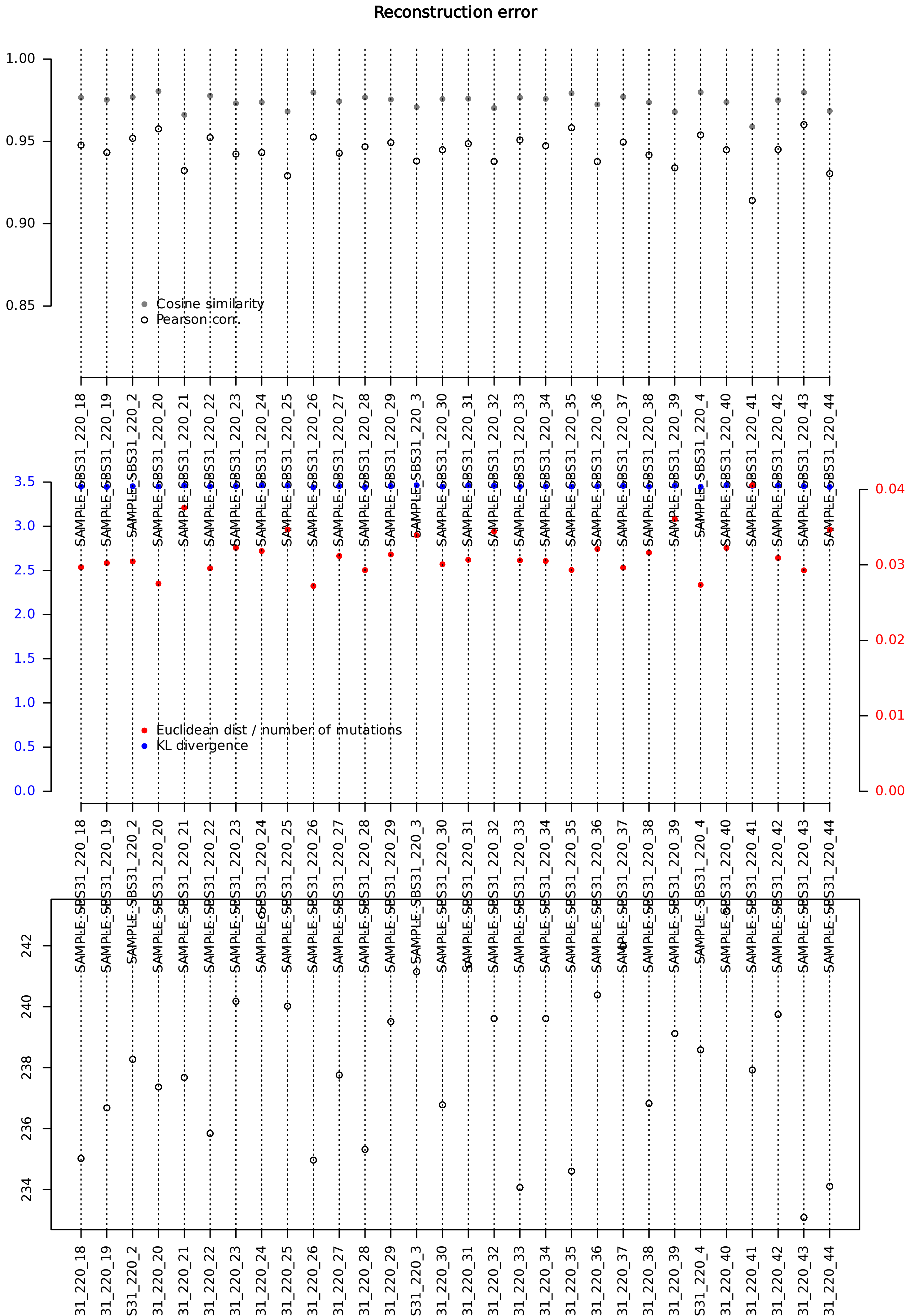
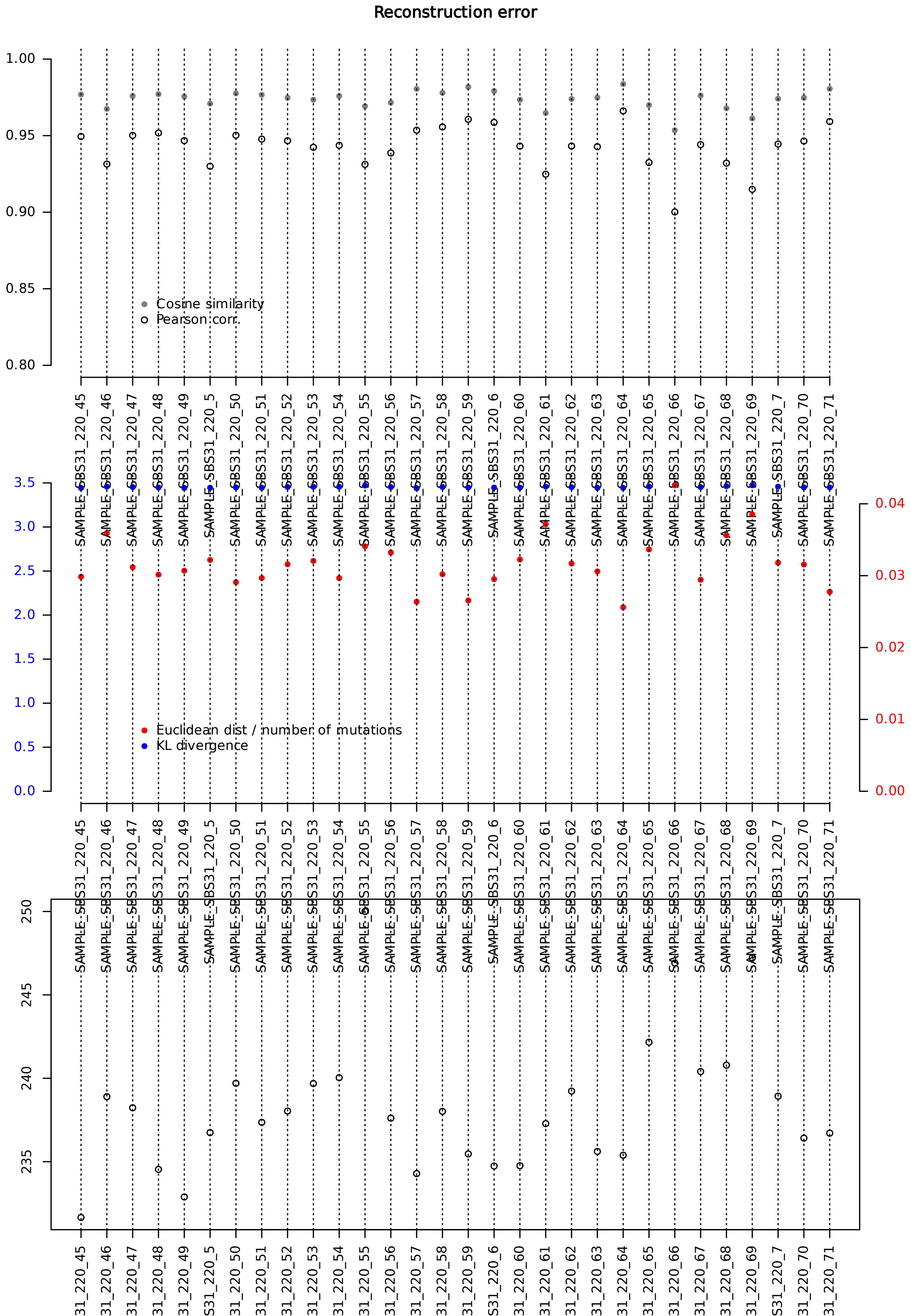
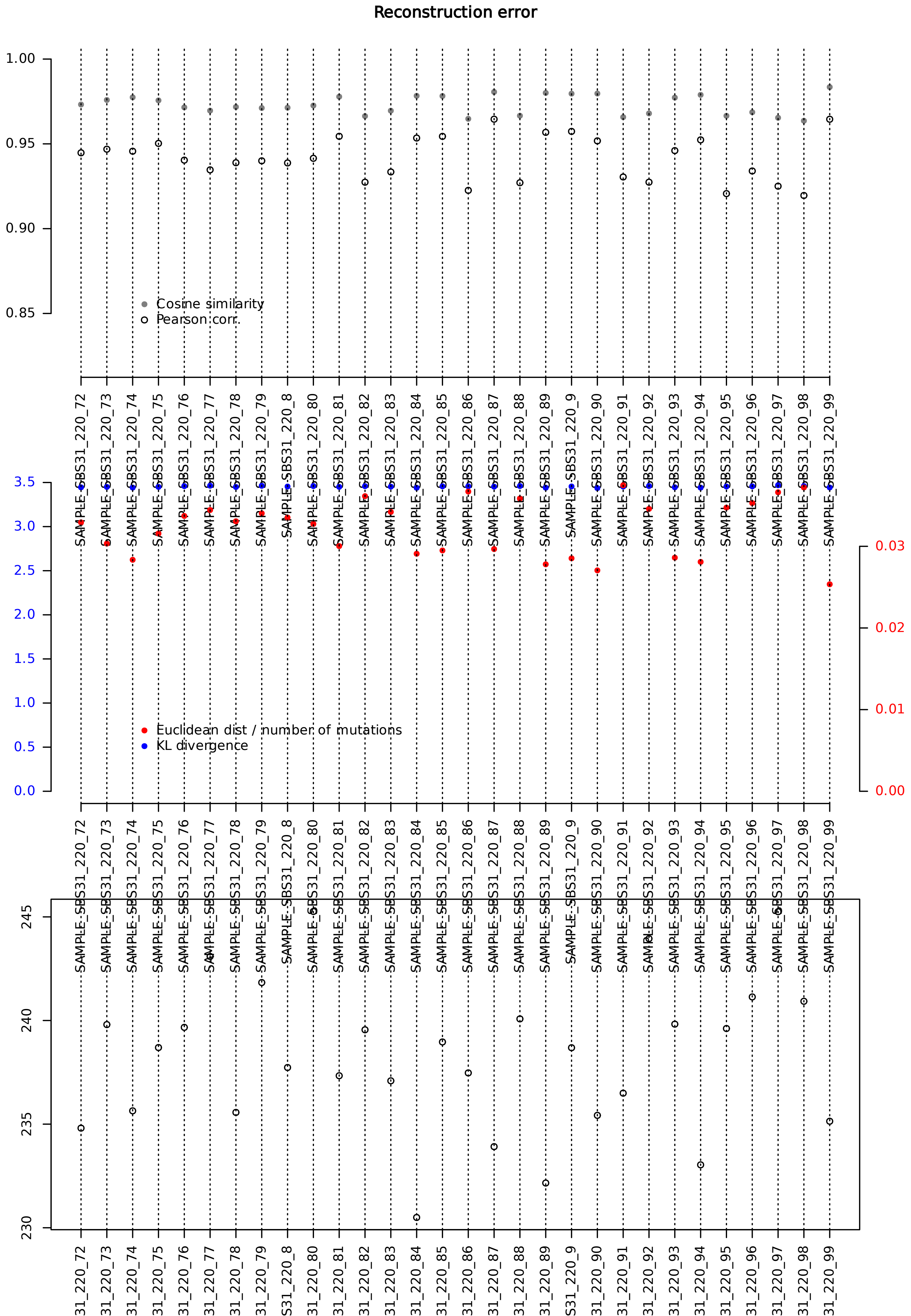
31_155_79
S31_155_8
31_155_80

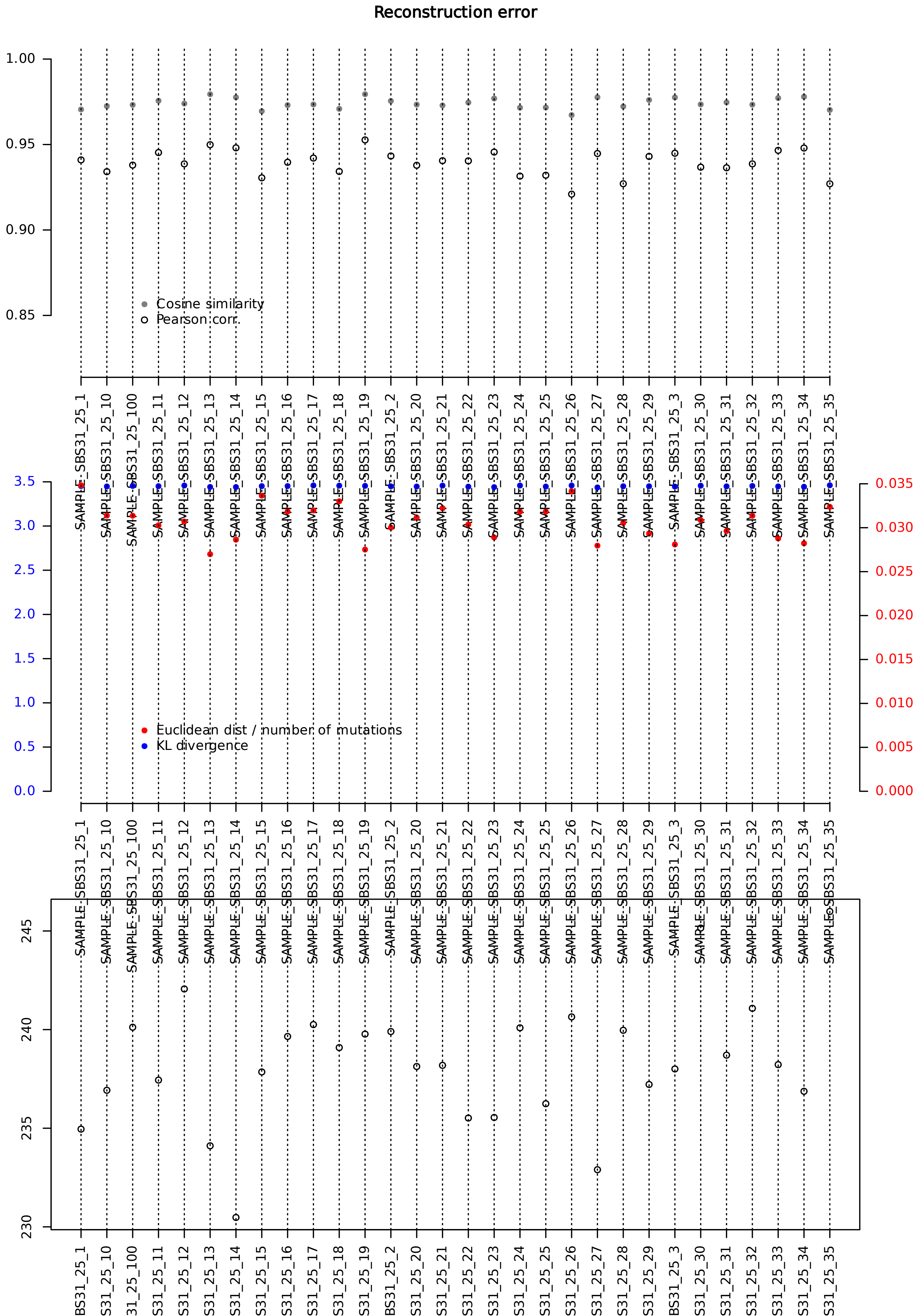
Reconstruction error

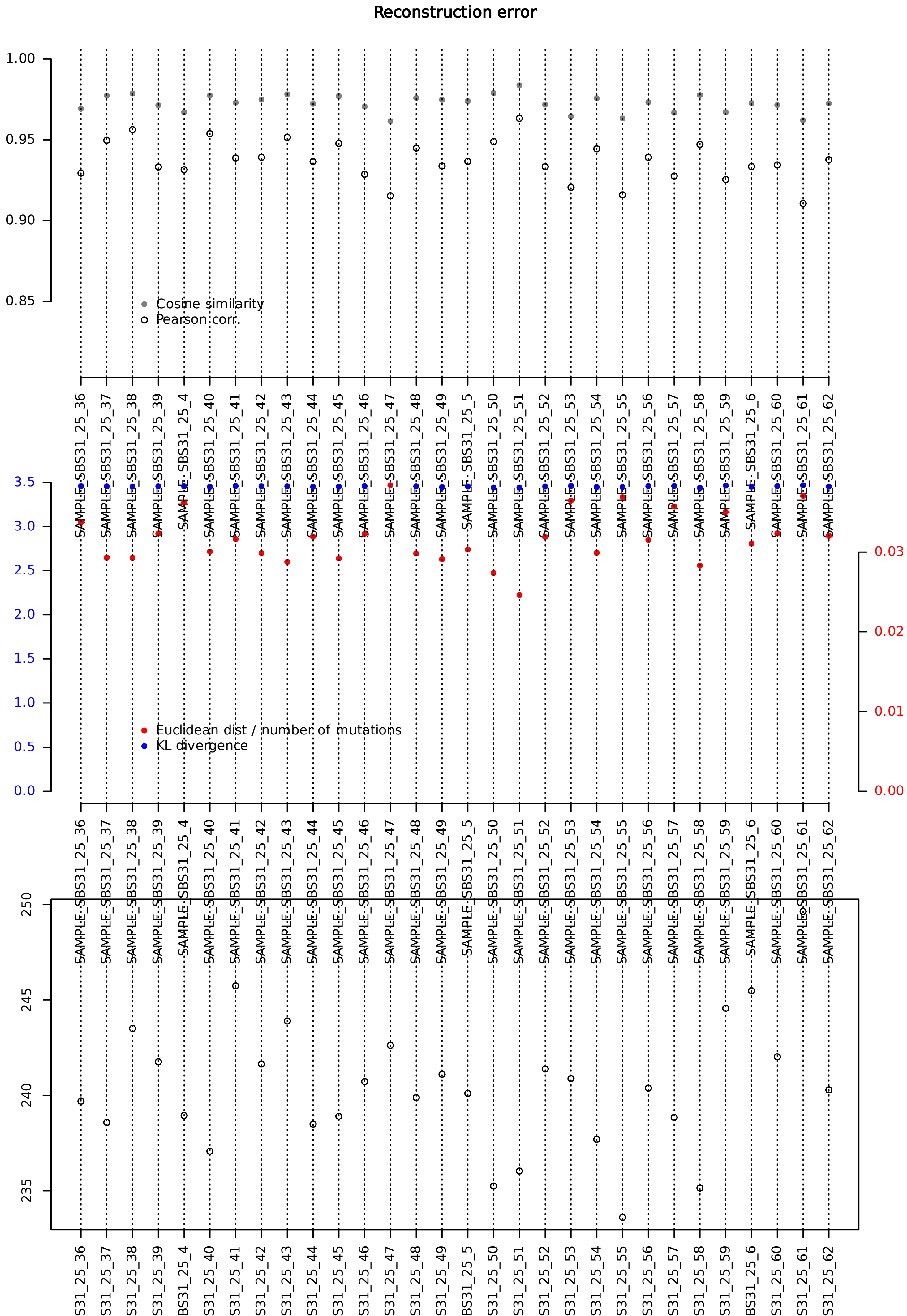


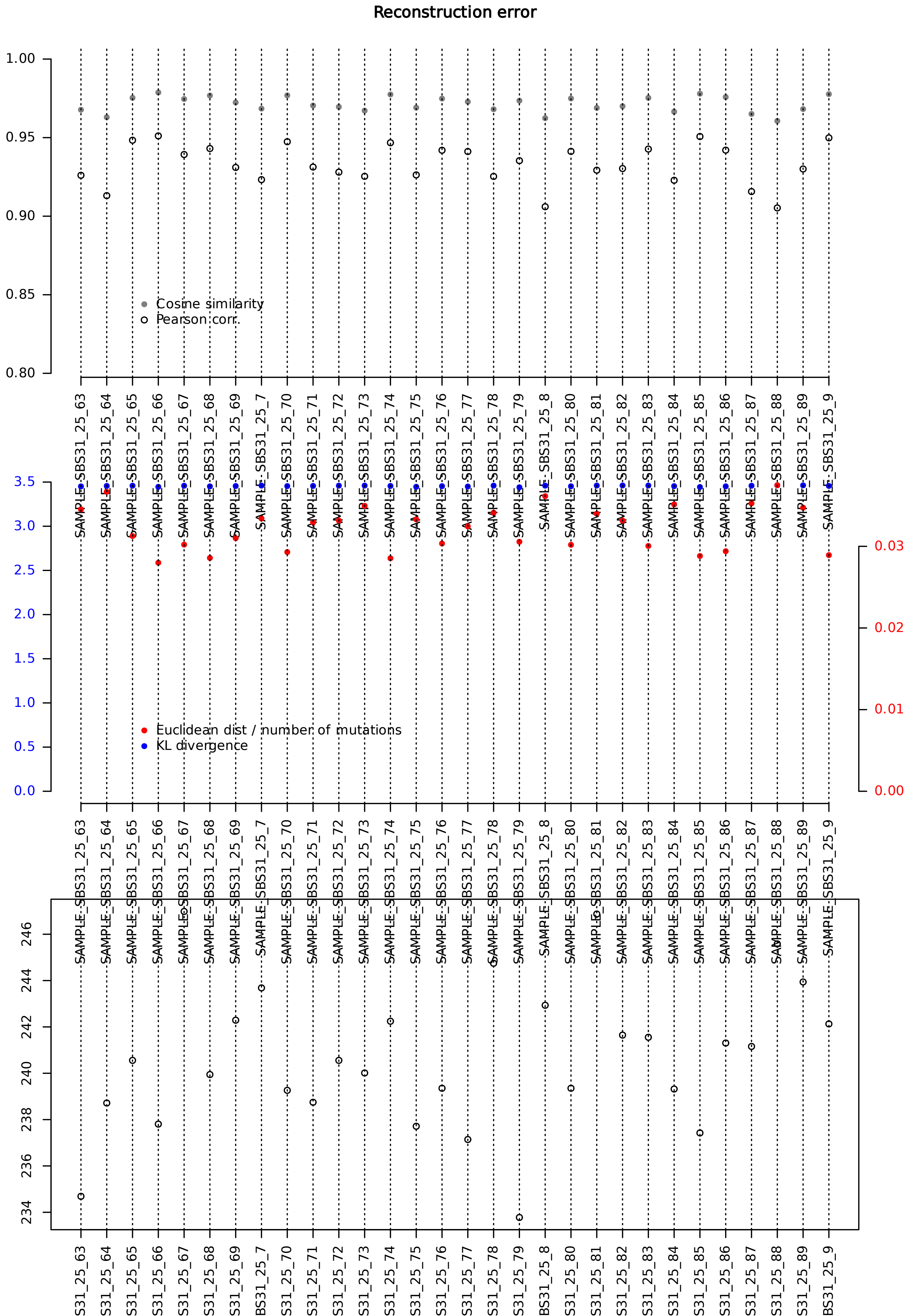

Reconstruction error

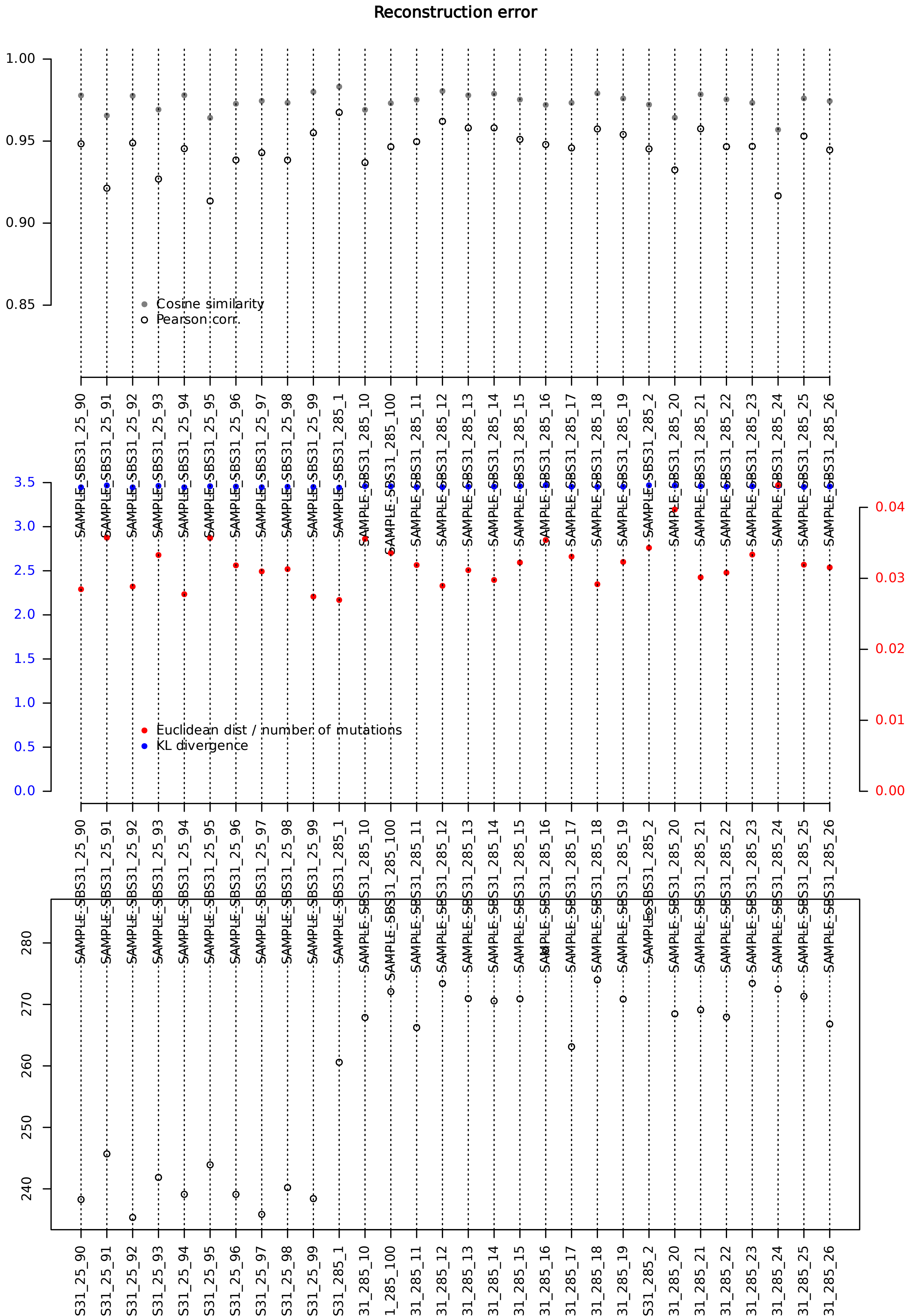

Reconstruction error
1.00
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
250
245
240
235
SAMPLE-SBS31_220_45
SAMPLE-SBS31_220_46
SAMPLE-SBS31_220_47
SAMPLE-SBS31_220_48
SAMPLE-SBS31_220_49
SAMPLE-SBS31_220_5
SAMPLE-SBS31_220_50
SAMPLE-SBS31_220_51
SAMPLE-SBS31_220_52
SAMPLE-SBS31_220_53
SAMPLE-SBS31_220_54
SAMPLE-SBS31_220_55
SAMPLE-SBS31_220_56
SAMPLE-SBS31_220_57
SAMPLE-SBS31_220_58
SAMPLE-SBS31_220_59
SAMPLE-SBS31_220_6
SAMPLE-SBS31_220_60
SAMPLE-SBS31_220_61
SAMPLE-SBS31_220_62
SAMPLE-SBS31_220_63
SAMPLE-SBS31_220_64
SAMPLE-SBS31_220_65
SAMPLE-SBS31_220_66
SAMPLE-SBS31_220_67
SAMPLE-SBS31_220_68
SAMPLE-SBS31_220_69
SAMPLE-SBS31_220_7
SAMPLE-SBS31_220_70
SAMPLE-SBS31_220_71

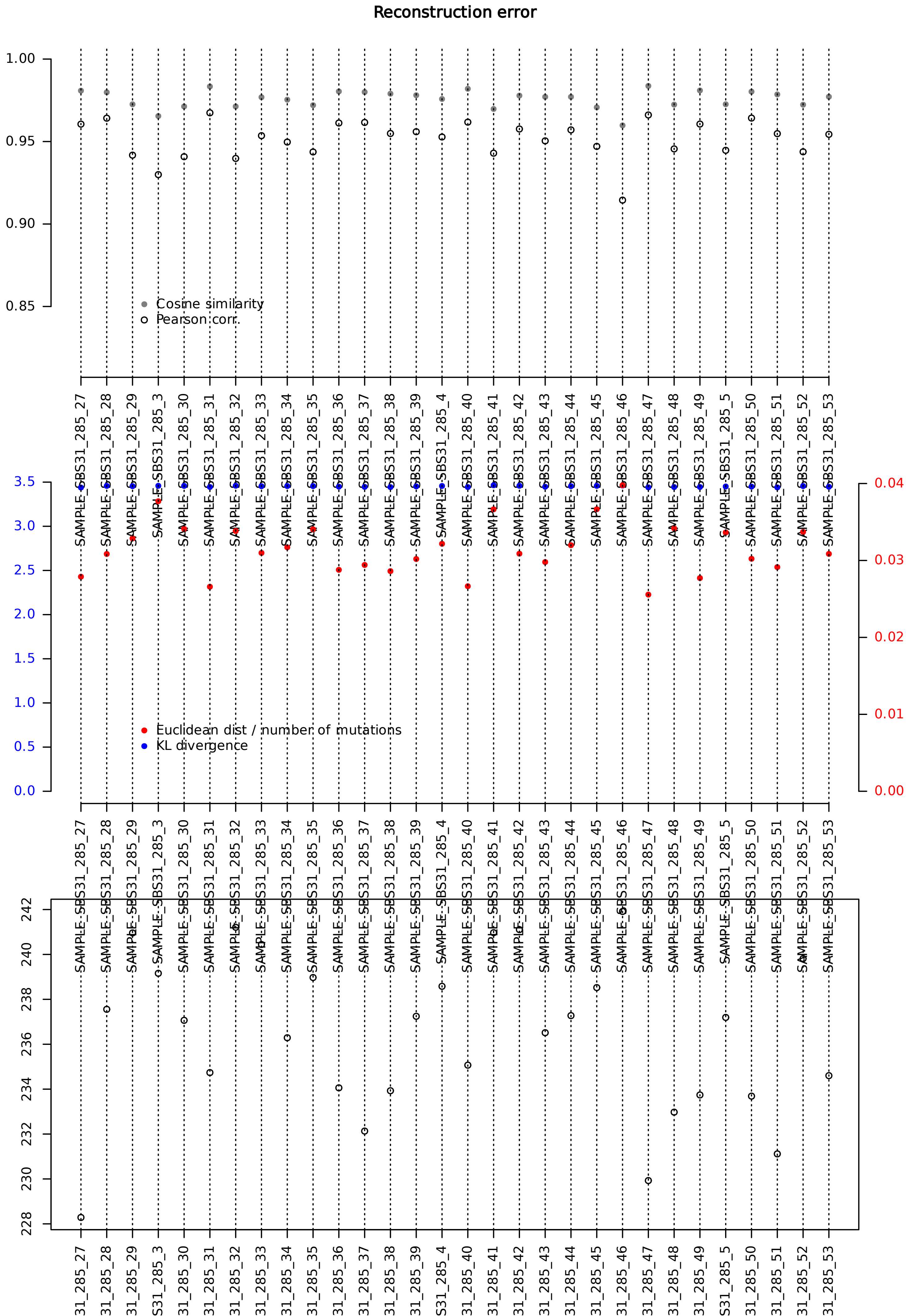

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
SAMPLE-SBS31_220_72
SAMPLE-SBS31_220_73
SAMPLE-SBS31_220_74
SAMPLE-SBS31_220_75
SAMPLE-SBS31_220_76
SAMPLE-SBS31_220_77
SAMPLE-SBS31_220_78
SAMPLE-SBS31_220_79
SAMPLE-SBS31_220_8
SAMPLE-SBS31_220_80
SAMPLE-SBS31_220_81
SAMPLE-SBS31_220_82
SAMPLE-SBS31_220_83
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
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
245
240
235
230

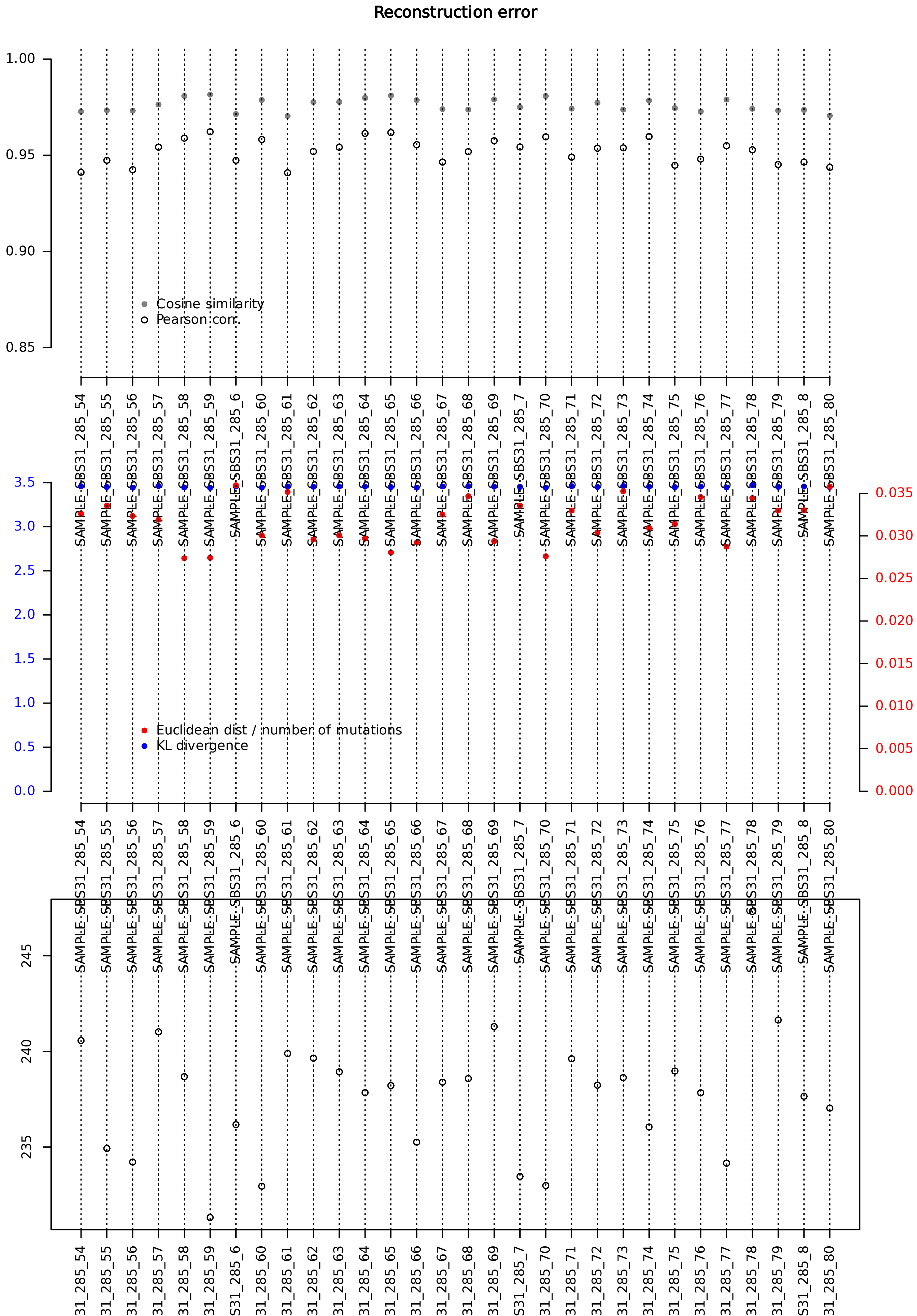

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
Euclidean dist / number of mutations
KL divergence
245
240
235
230
SAMPLE_SBS31_25_1
SAMPLE_SBS31_25_10
SAMPLE_SBS31_25_100
SAMPLE_SBS31_25_11
SAMPLE_SBS31_25_12
SAMPLE_SBS31_25_13
SAMPLE_SBS31_25_14
SAMPLE_SBS31_25_15
SAMPLE_SBS31_25_16
SAMPLE_SBS31_25_17
SAMPLE_SBS31_25_18
SAMPLE_SBS31_25_19
SAMPLE_SBS31_25_2
SAMPLE_SBS31_25_20
SAMPLE_SBS31_25_21
SAMPLE_SBS31_25_22
SAMPLE_SBS31_25_23
SAMPLE_SBS31_25_24
SAMPLE_SBS31_25_25
SAMPLE_SBS31_25_26
SAMPLE_SBS31_25_27
SAMPLE_SBS31_25_28
SAMPLE_SBS31_25_29
SAMPLE_SBS31_25_3
SAMPLE_SBS31_25_30
SAMPLE_SBS31_25_31
SAMPLE_SBS31_25_32
SAMPLE_SBS31_25_33
SAMPLE_SBS31_25_34
SAMPLE_SBS31_25_35

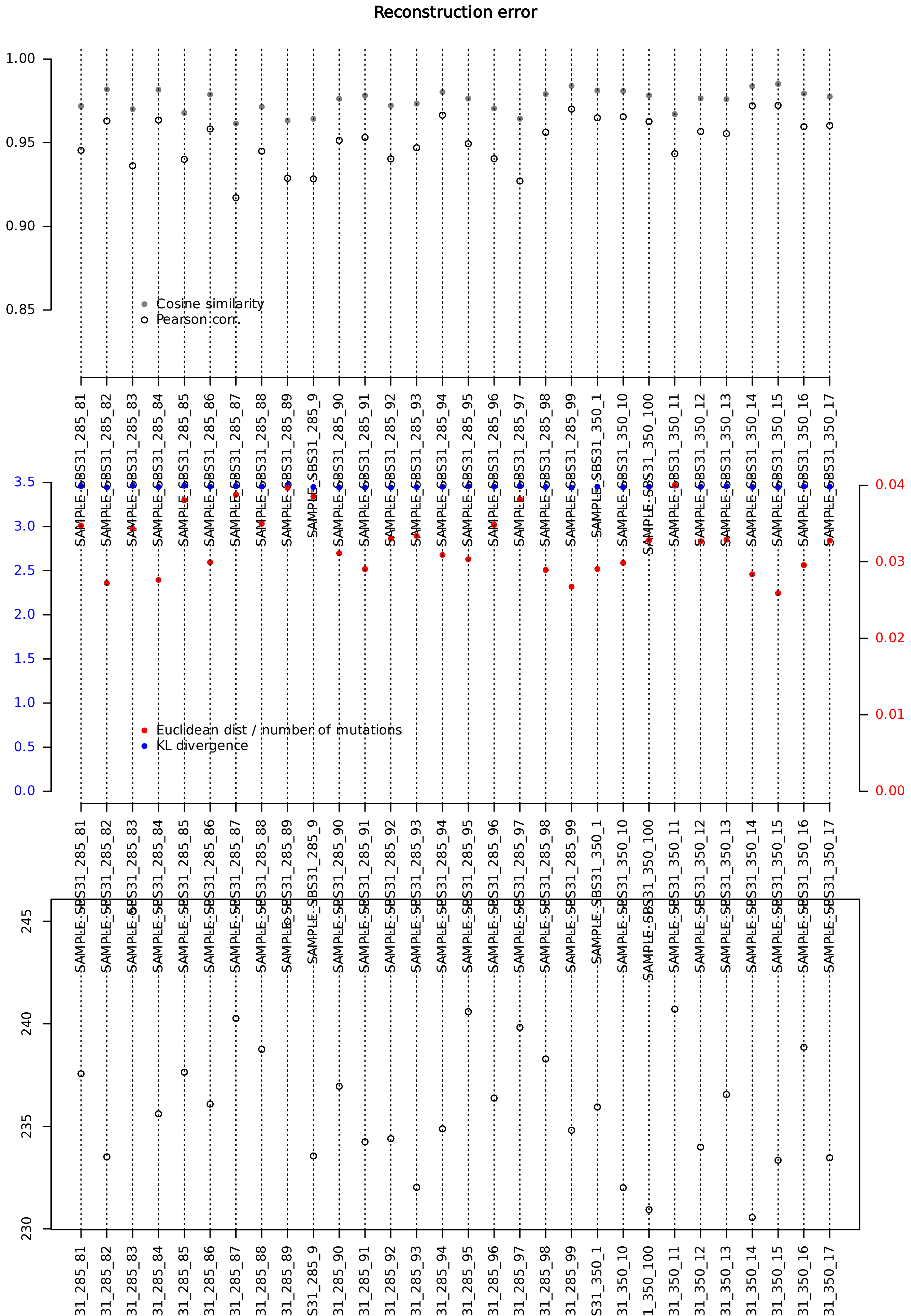

Reconstruction error
1.00
0.95
0.90
0.85
● Cosine similarity
○ Pearson corr.
SAMPLE-SBS31_25_36
SAMPLE-SBS31_25_37
SAMPLE-SBS31_25_38
SAMPLE-SBS31_25_39
SAMPLE-SBS31_25_4
SAMPLE-SBS31_25_40
SAMPLE-SBS31_25_41
SAMPLE-SBS31_25_42
SAMPLE-SBS31_25_43
SAMPLE-SBS31_25_44
SAMPLE-SBS31_25_45
SAMPLE-SBS31_25_46
SAMPLE-SBS31_25_47
SAMPLE-SBS31_25_48
SAMPLE-SBS31_25_49
SAMPLE-SBS31_25_5
SAMPLE-SBS31_25_50
SAMPLE-SBS31_25_51
SAMPLE-SBS31_25_52
SAMPLE-SBS31_25_53
SAMPLE-SBS31_25_54
SAMPLE-SBS31_25_55
SAMPLE-SBS31_25_56
SAMPLE-SBS31_25_57
SAMPLE-SBS31_25_58
SAMPLE-SBS31_25_59
SAMPLE-SBS31_25_6
SAMPLE-SBS31_25_60
SAMPLE-SBS31_25_61
SAMPLE-SBS31_25_62
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.03
0.02
0.01
0.00
● Euclidean dist / number of mutations
● KL divergence
250
245
240
235

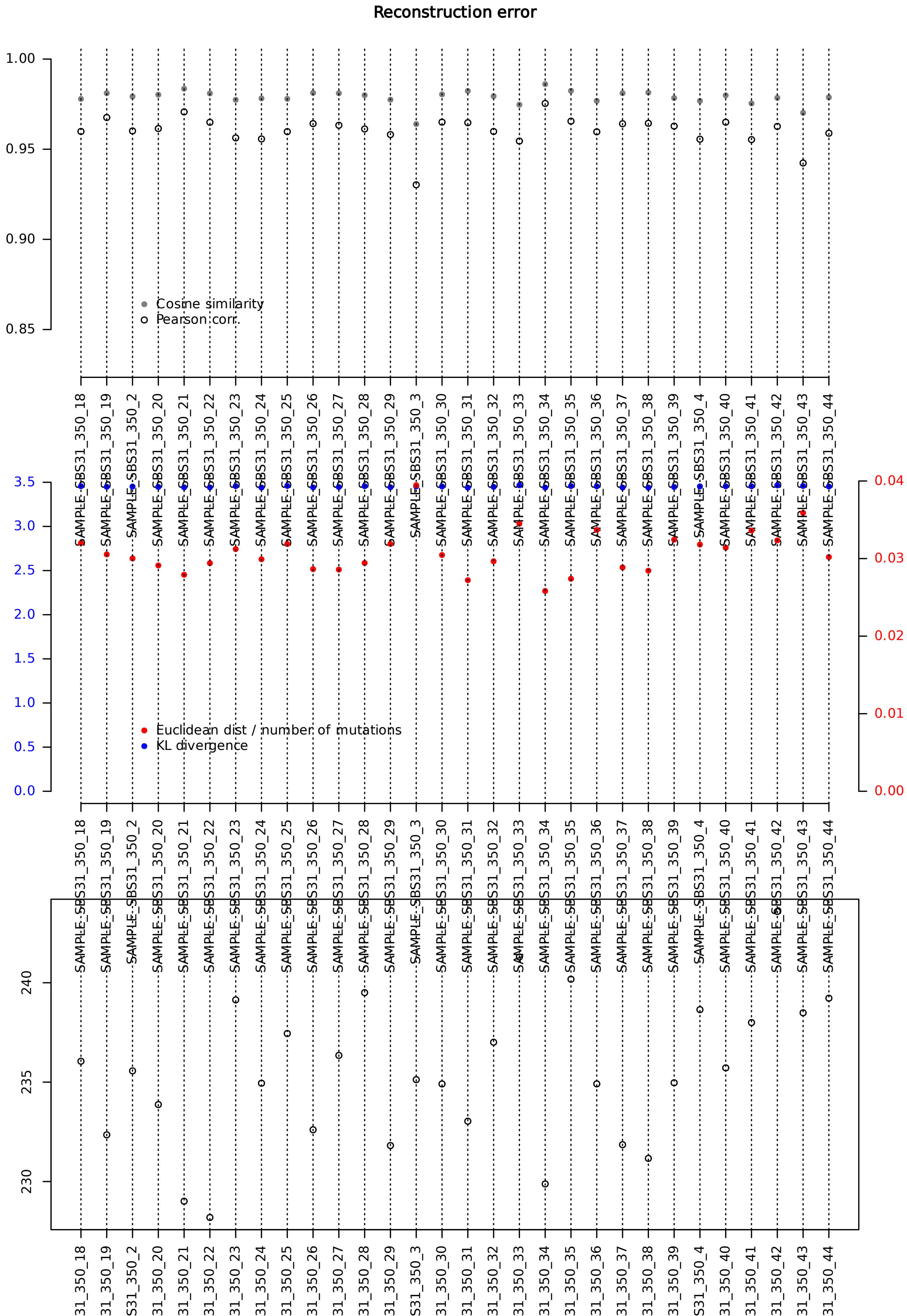

Reconstruction error
1.00
0.95
0.90
0.85
0.80
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
246
244
242
240
238
236
234
SAMPLE-SBS31_25_63
SAMPLE-SBS31_25_64
SAMPLE-SBS31_25_65
SAMPLE-SBS31_25_66
SAMPLE-SBS31_25_67
SAMPLE-SBS31_25_68
SAMPLE-SBS31_25_69
SAMPLE-SBS31_25_7
SAMPLE-SBS31_25_70
SAMPLE-SBS31_25_71
SAMPLE-SBS31_25_72
SAMPLE-SBS31_25_73
SAMPLE-SBS31_25_74
SAMPLE-SBS31_25_75
SAMPLE-SBS31_25_76
SAMPLE-SBS31_25_77
SAMPLE-SBS31_25_78
SAMPLE-SBS31_25_79
SAMPLE-SBS31_25_8
SAMPLE-SBS31_25_80
SAMPLE-SBS31_25_81
SAMPLE-SBS31_25_82
SAMPLE-SBS31_25_83
SAMPLE-SBS31_25_84
SAMPLE-SBS31_25_85
SAMPLE-SBS31_25_86
SAMPLE-SBS31_25_87
SAMPLE-SBS31_25_88
SAMPLE-SBS31_25_89
SAMPLE-SBS31_25_9

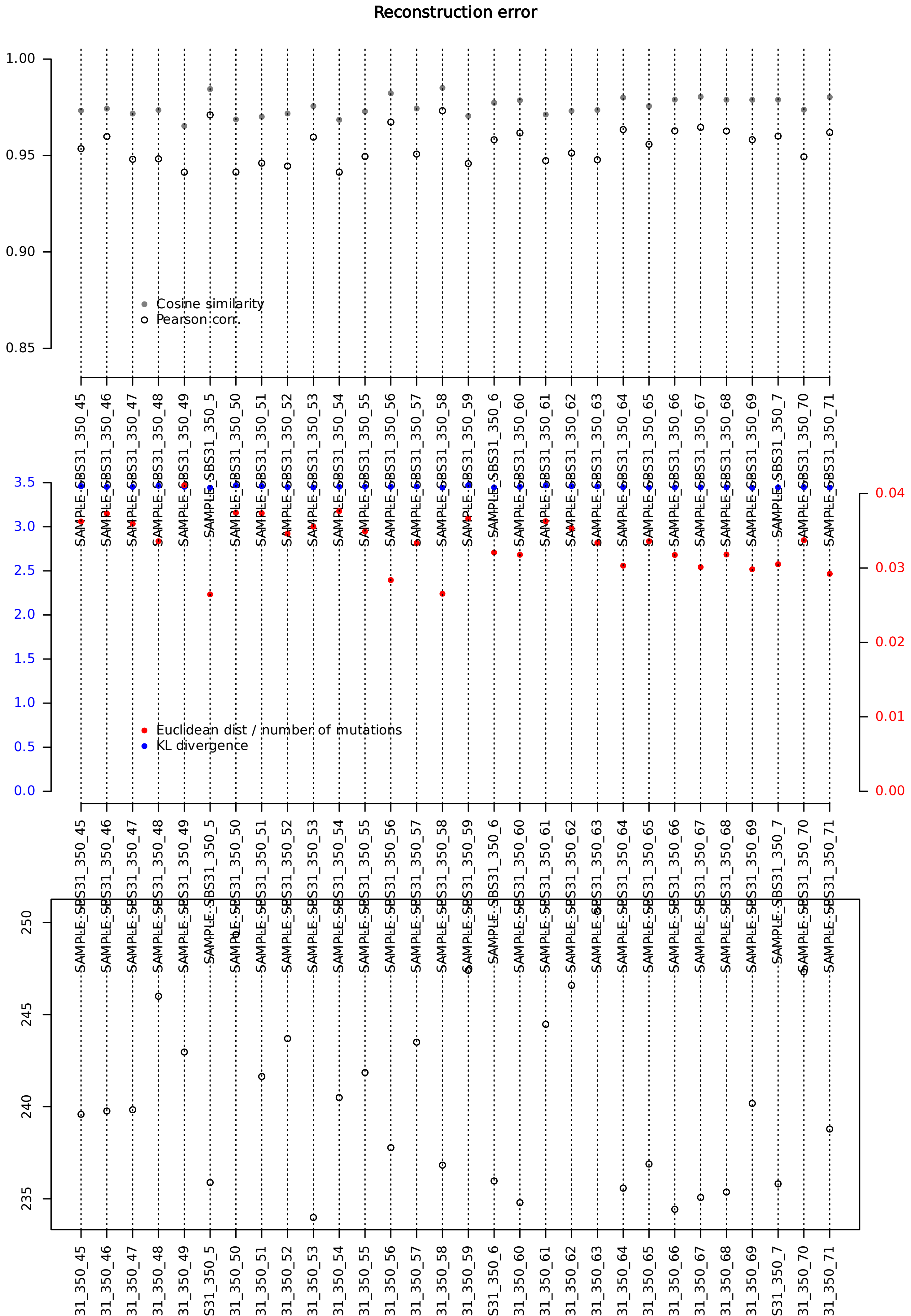

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
280
270
260
250
240
SAMPLE-SBS31_25_90
SAMPLE-SBS31_25_91
SAMPLE-SBS31_25_92
SAMPLE-SBS31_25_93
SAMPLE-SBS31_25_94
SAMPLE-SBS31_25_95
SAMPLE-SBS31_25_96
SAMPLE-SBS31_25_97
SAMPLE-SBS31_25_98
SAMPLE-SBS31_25_99
SAMPLE-SBS31_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

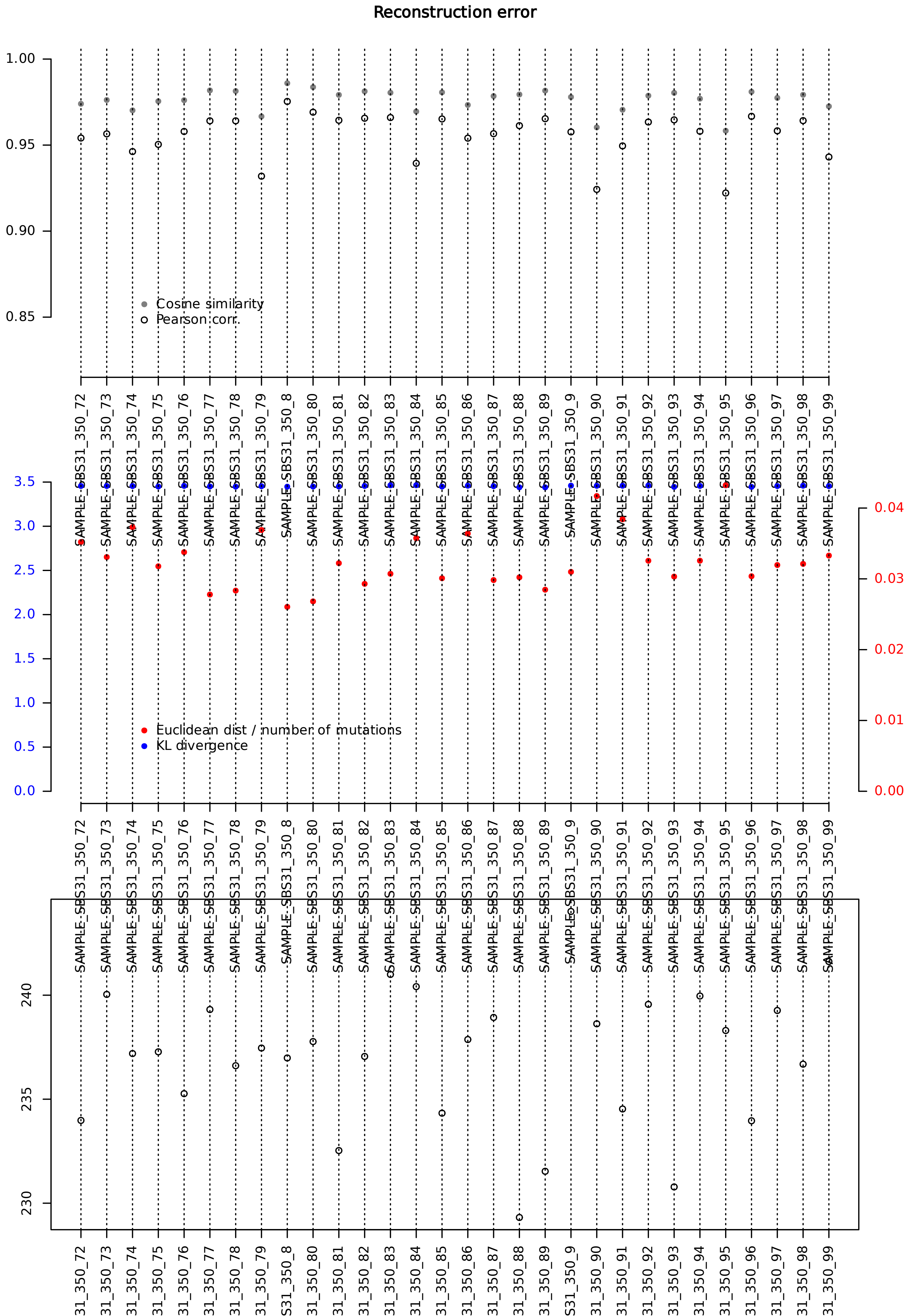

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
242
240
238
236
234
232
230
228
SAMPLE-SBS31_285_27
SAMPLE-SBS31_285_28
SAMPLE-SBS31_285_29
SAMPLE-SBS31_285_3
SAMPLE-SBS31_285_30
SAMPLE-SBS31_285_31
SAMPLE-SBS31_285_32
SAMPLE-SBS31_285_33
SAMPLE-SBS31_285_34
SAMPLE-SBS31_285_35
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


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
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
Euclidean dist / number of mutations
KL divergence
245
240
235
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
SAMPLE-SBS31_285_63
SAMPLE-SBS31_285_64
SAMPLE-SBS31_285_65
SAMPLE-SBS31_285_66
SAMPLE-SBS31_285_67
SAMPLE-SBS31_285_68
SAMPLE-SBS31_285_69
SAMPLE-SBS31_285_7
SAMPLE-SBS31_285_70
SAMPLE-SBS31_285_71
SAMPLE-SBS31_285_72
SAMPLE-SBS31_285_73
SAMPLE-SBS31_285_74
SAMPLE-SBS31_285_75
SAMPLE-SBS31_285_76
SAMPLE-SBS31_285_77
SAMPLE-SBS31_285_78
SAMPLE-SBS31_285_79
SAMPLE-SBS31_285_8
SAMPLE-SBS31_285_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
245
240
235
230
SAMPLE-SBS31_285_81
SAMPLE-SBS31_285_82
SAMPLE-SBS31_285_83
SAMPLE-SBS31_285_84
SAMPLE-SBS31_285_85
SAMPLE-SBS31_285_86
SAMPLE-SBS31_285_87
SAMPLE-SBS31_285_88
SAMPLE-SBS31_285_89
SAMPLE-SBS31_285_9
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_350_1
SAMPLE-SBS31_350_10
SAMPLE-SBS31_350_100
SAMPLE-SBS31_350_11
SAMPLE-SBS31_350_12
SAMPLE-SBS31_350_13
SAMPLE-SBS31_350_14
SAMPLE-SBS31_350_15
SAMPLE-SBS31_350_16
SAMPLE-SBS31_350_17


Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
SAMPLE-SBS31_350_18
SAMPLE-SBS31_350_19
SAMPLE-SBS31_350_2
SAMPLE-SBS31_350_20
SAMPLE-SBS31_350_21
SAMPLE-SBS31_350_22
SAMPLE-SBS31_350_23
SAMPLE-SBS31_350_24
SAMPLE-SBS31_350_25
SAMPLE-SBS31_350_26
SAMPLE-SBS31_350_27
SAMPLE-SBS31_350_28
SAMPLE-SBS31_350_29
SAMPLE-SBS31_350_3
SAMPLE-SBS31_350_30
SAMPLE-SBS31_350_31
SAMPLE-SBS31_350_32
SAMPLE-SBS31_350_33
SAMPLE-SBS31_350_34
SAMPLE-SBS31_350_35
SAMPLE-SBS31_350_36
SAMPLE-SBS31_350_37
SAMPLE-SBS31_350_38
SAMPLE-SBS31_350_39
SAMPLE-SBS31_350_4
SAMPLE-SBS31_350_40
SAMPLE-SBS31_350_41
SAMPLE-SBS31_350_42
SAMPLE-SBS31_350_43
SAMPLE-SBS31_350_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


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
240
235
230
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
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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
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SAMPLE-SBS31_350_93
SAMPLE-SBS31_350_94
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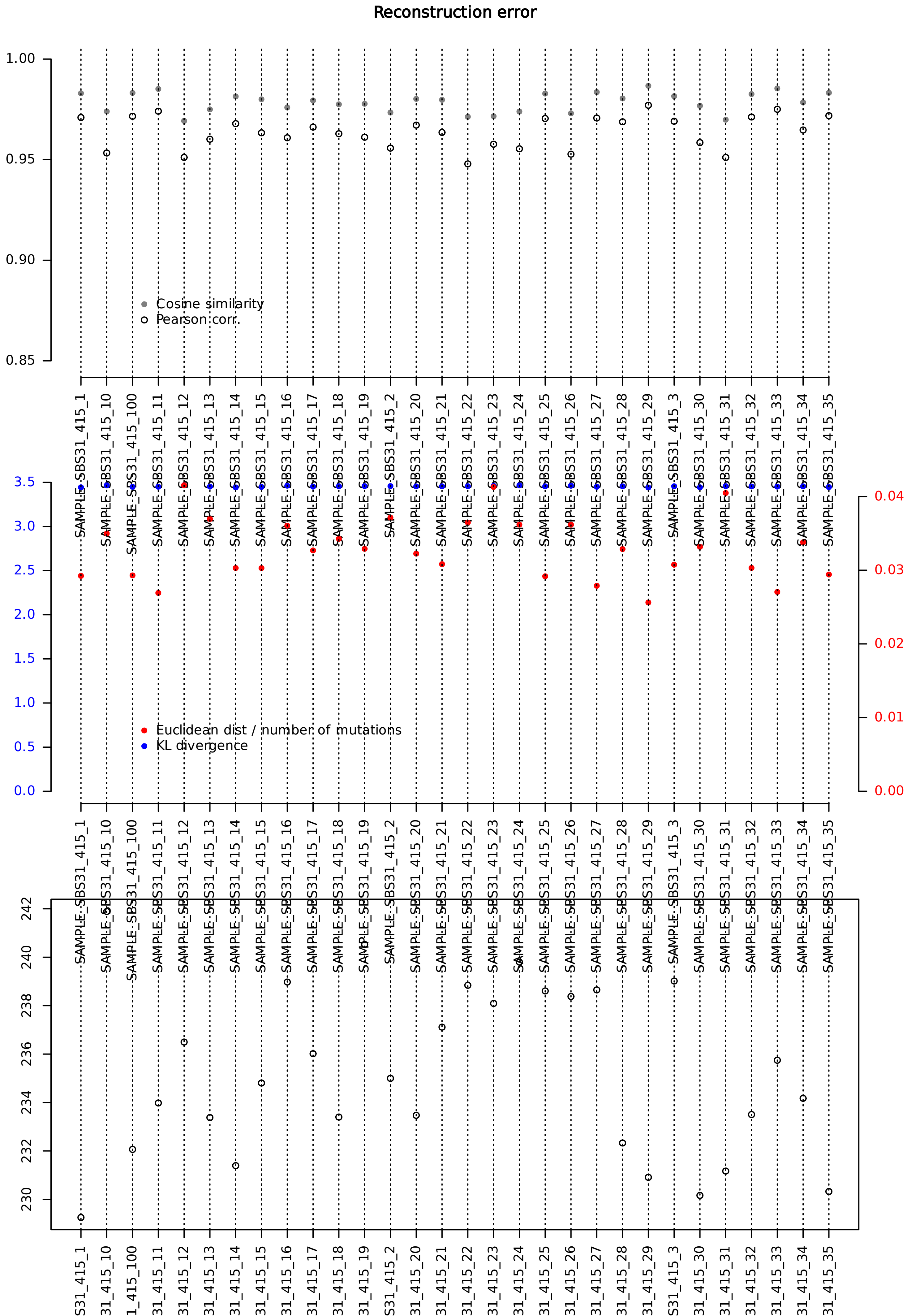
SAMPLE-SBS31_350_96
SAMPLE-SBS31_350_97
SAMPLE-SBS31_350_98
SAMPLE-SBS31_350_99


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
242
240
238
236
234
232
230
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
SAMPLE-SBS31_415_18
SAMPLE-SBS31_415_19
SAMPLE-SBS31_415_2
SAMPLE-SBS31_415_20
SAMPLE-SBS31_415_21
SAMPLE-SBS31_415_22
SAMPLE-SBS31_415_23
SAMPLE-SBS31_415_24
SAMPLE-SBS31_415_25
SAMPLE-SBS31_415_26
SAMPLE-SBS31_415_27
SAMPLE-SBS31_415_28
SAMPLE-SBS31_415_29
SAMPLE-SBS31_415_3
SAMPLE-SBS31_415_30
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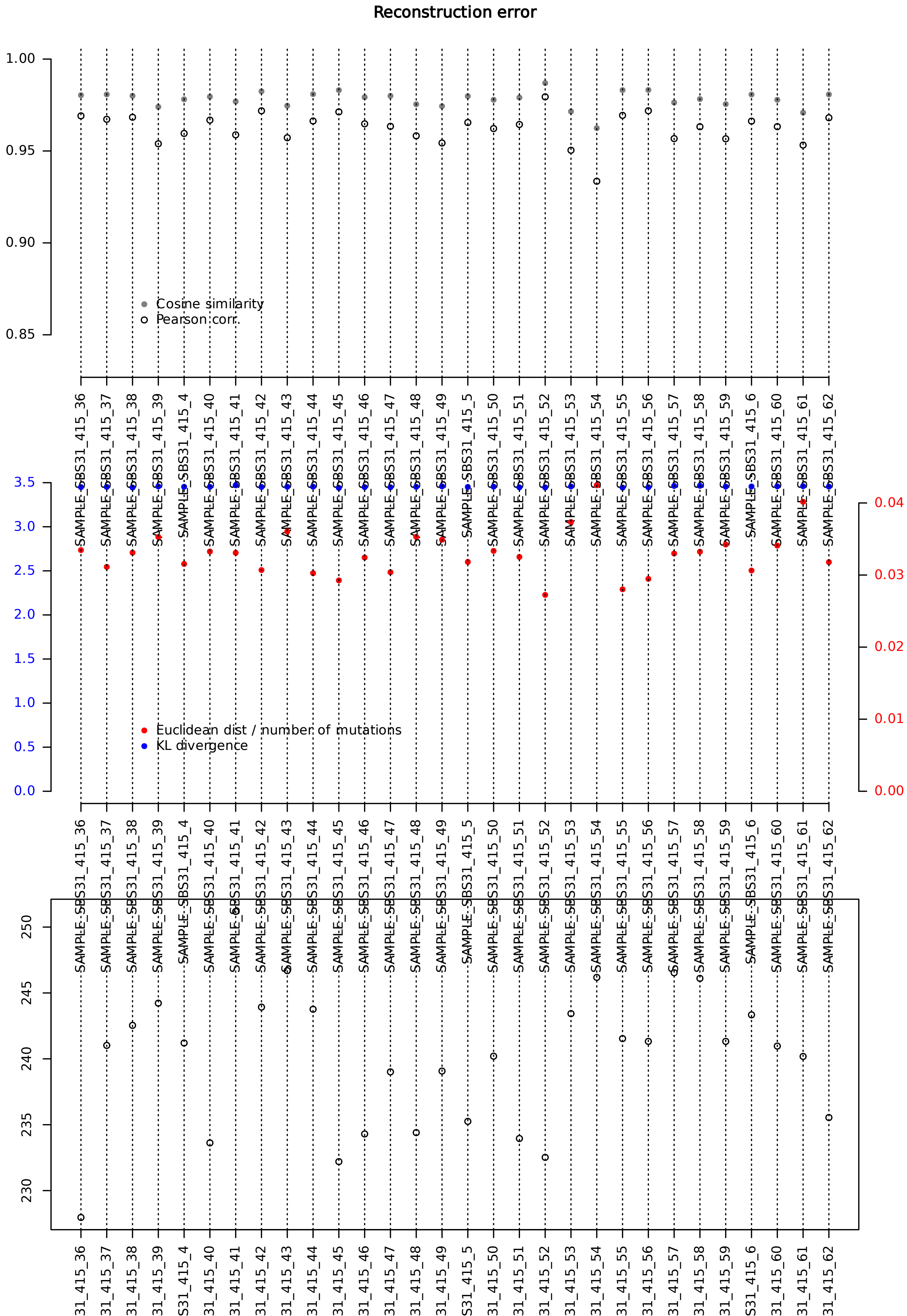
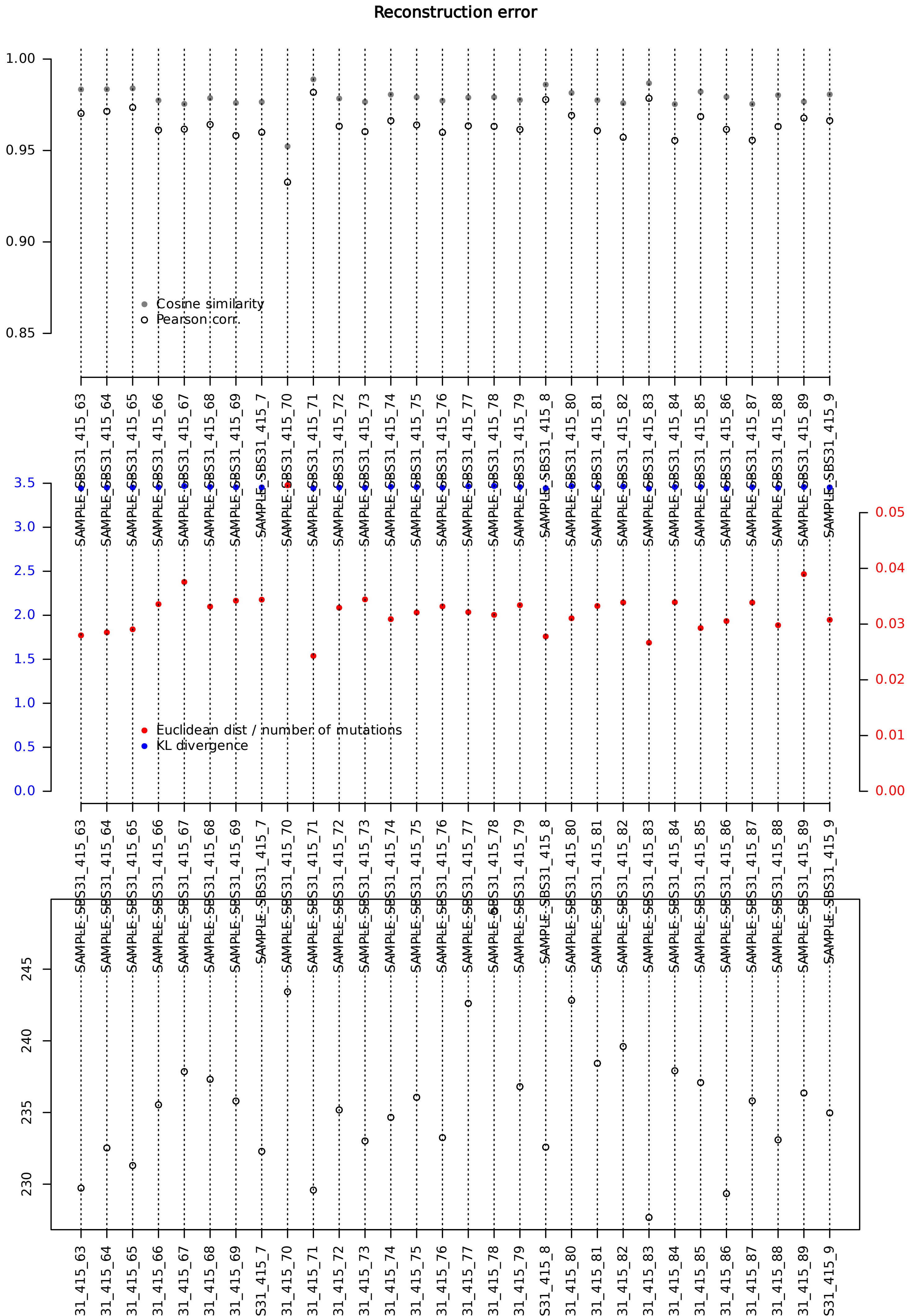
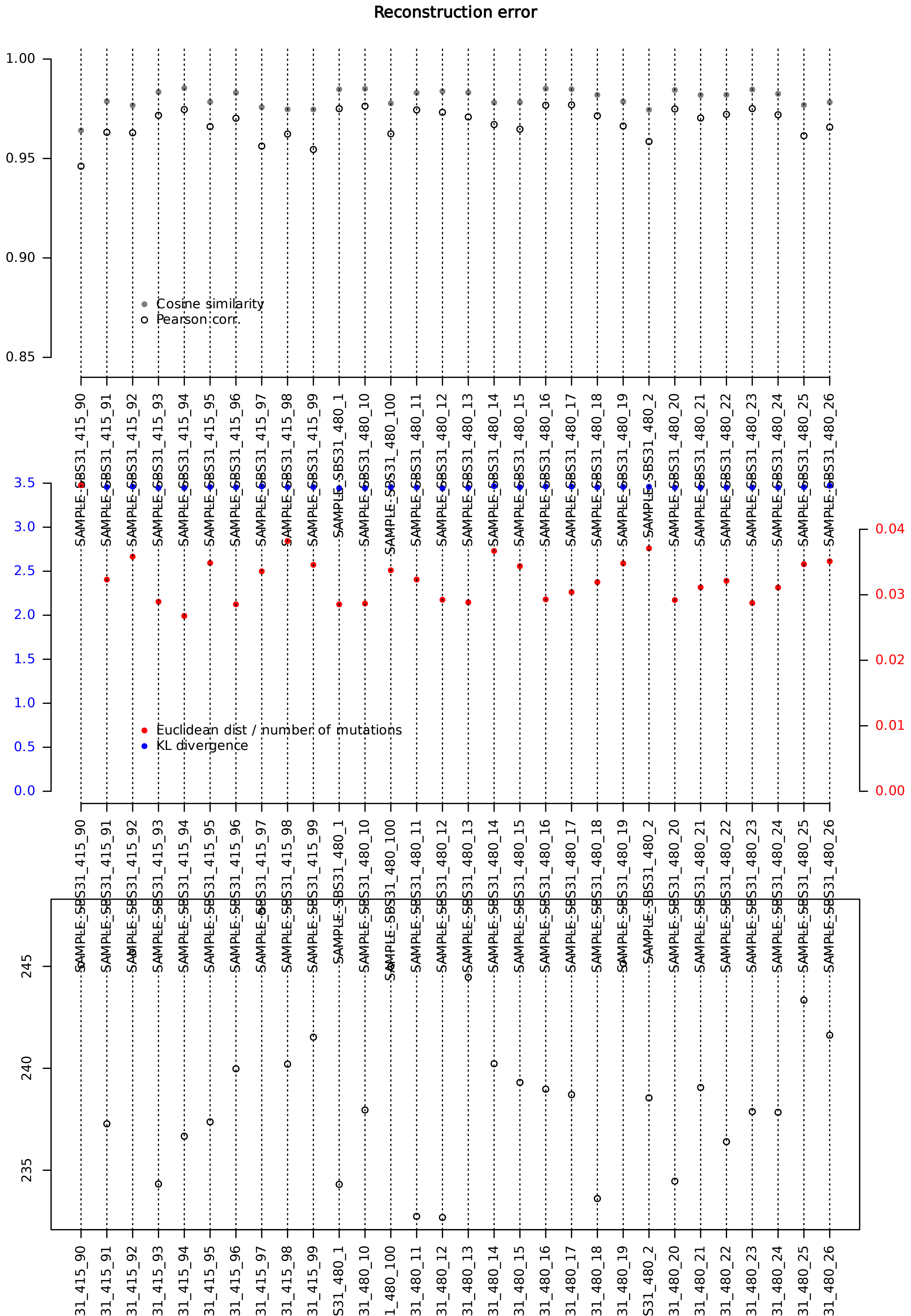
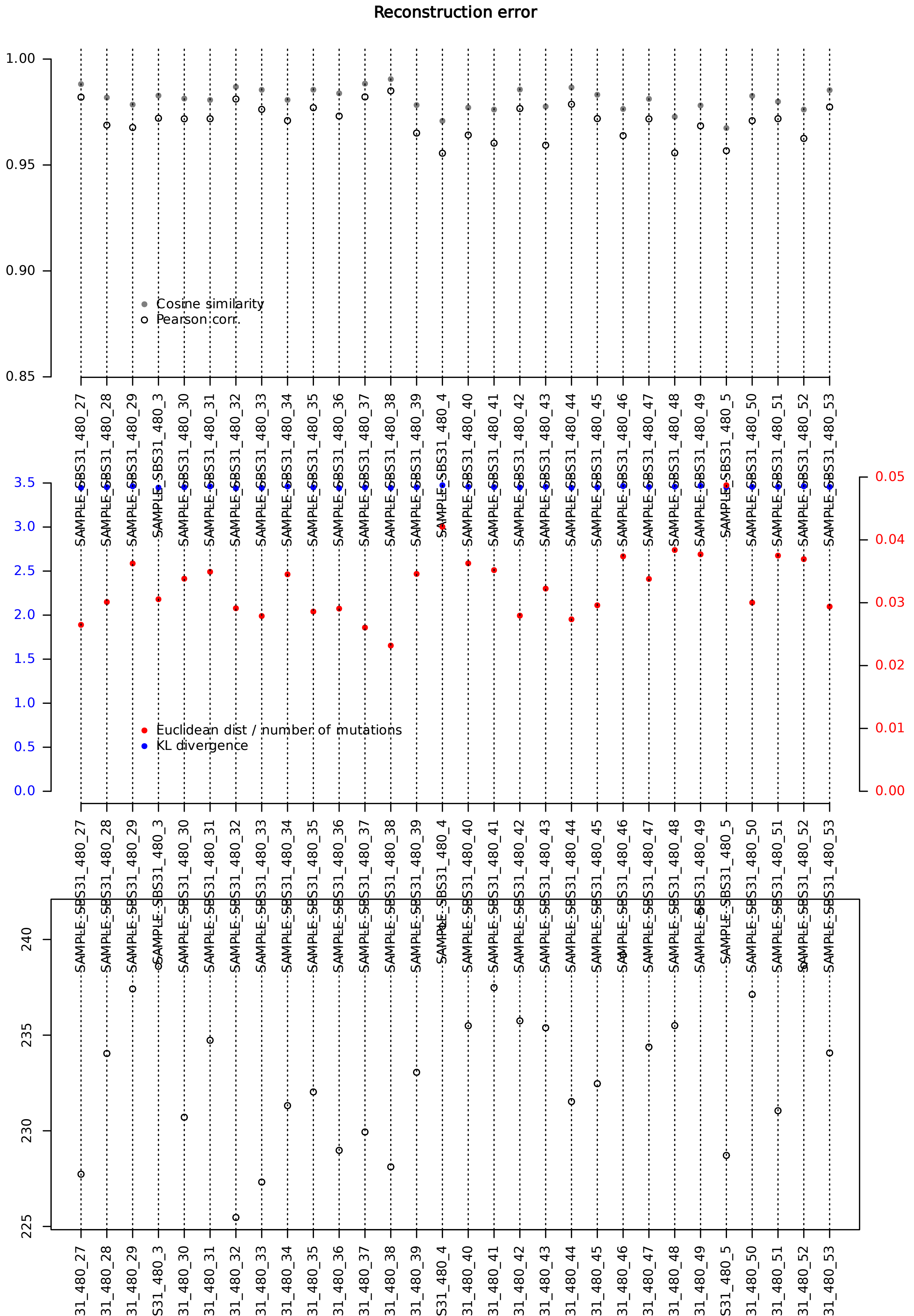
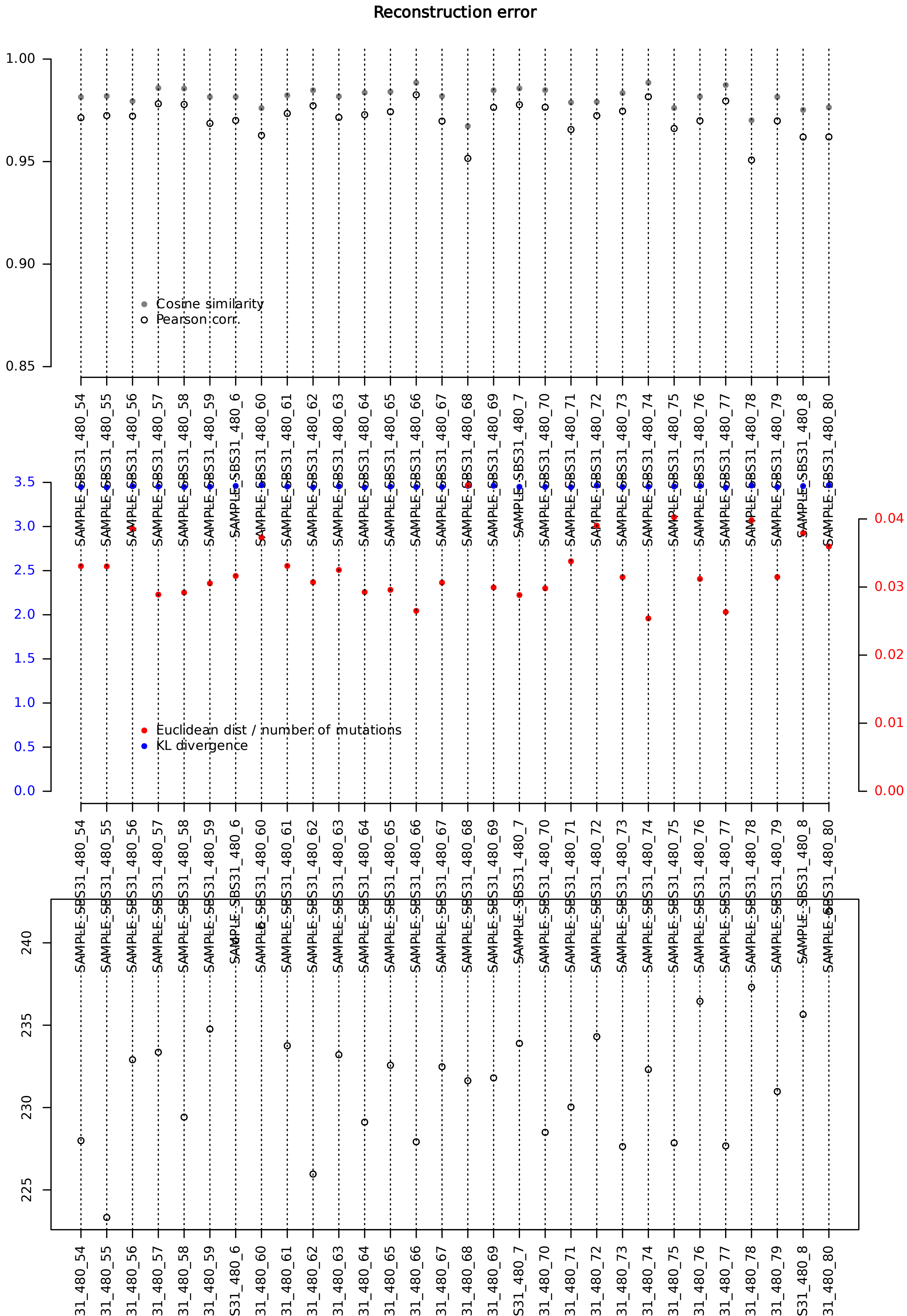
SAMPLE-SBS31_415_32
SAMPLE-SBS31_415_33
SAMPLE-SBS31_415_34
SAMPLE-SBS31_415_35

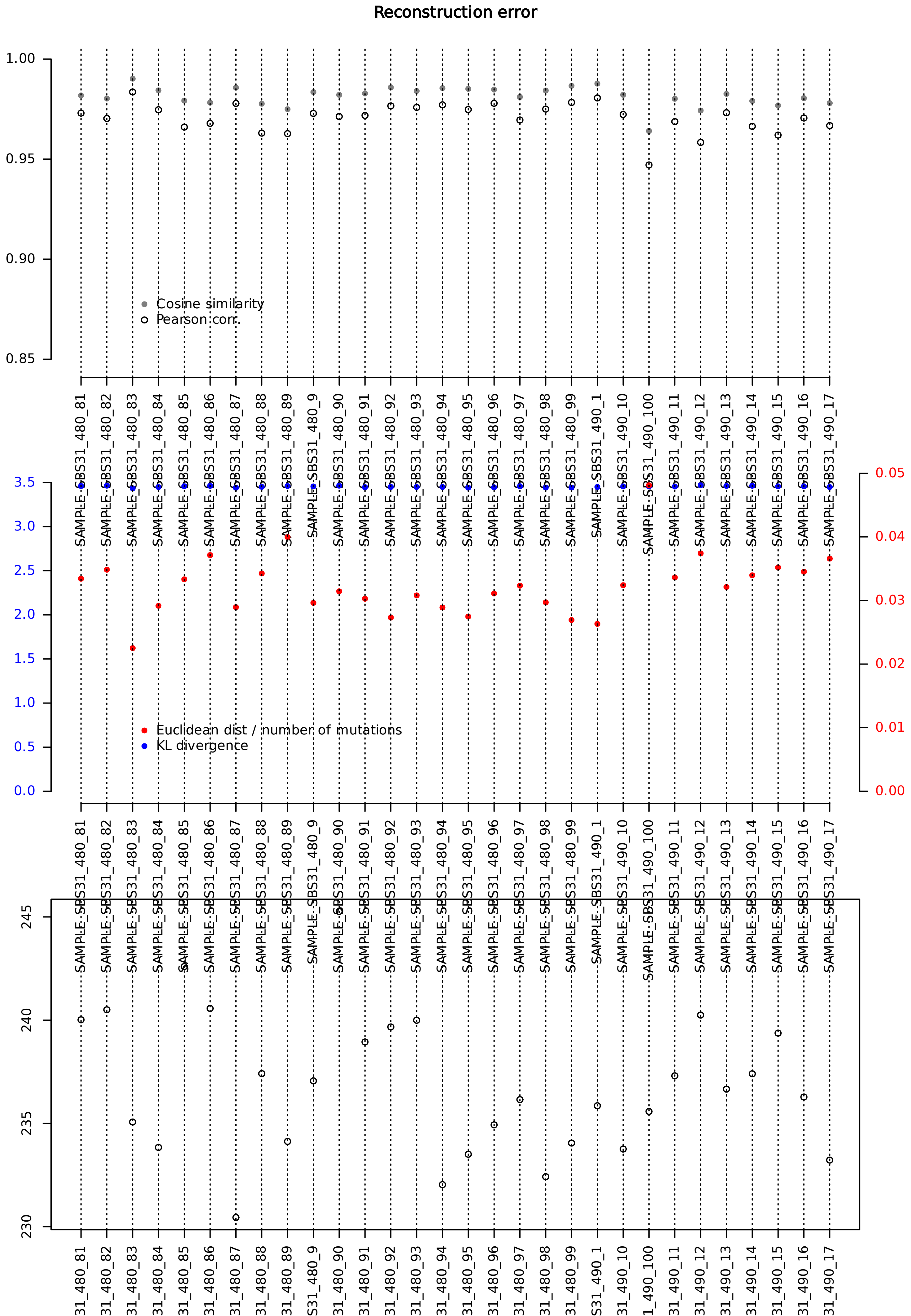

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
SAMPLE-SBS31_415_36
SAMPLE-SBS31_415_37
SAMPLE-SBS31_415_38
SAMPLE-SBS31_415_39
SAMPLE-SBS31_415_4
SAMPLE-SBS31_415_40
SAMPLE-SBS31_415_41
SAMPLE-SBS31_415_42
SAMPLE-SBS31_415_43
SAMPLE-SBS31_415_44
SAMPLE-SBS31_415_45
SAMPLE-SBS31_415_46
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
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

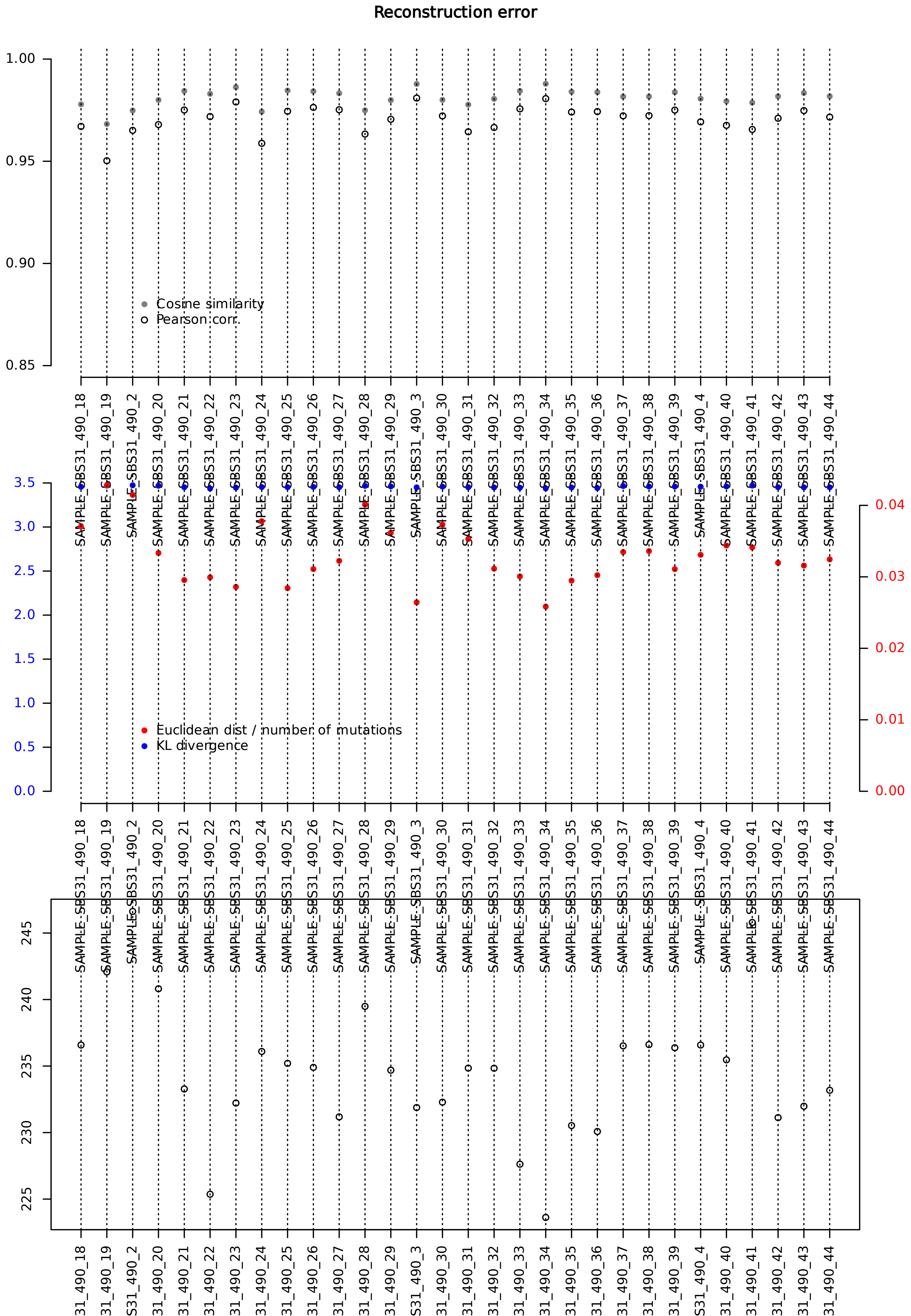

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.05
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
245
240
235
230
SAMPLE-SBS31_415_63
SAMPLE-SBS31_415_64
SAMPLE-SBS31_415_65
SAMPLE-SBS31_415_66
SAMPLE-SBS31_415_67
SAMPLE-SBS31_415_68
SAMPLE-SBS31_415_69
SAMPLE-SBS31_415_7
SAMPLE-SBS31_415_70
SAMPLE-SBS31_415_71
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

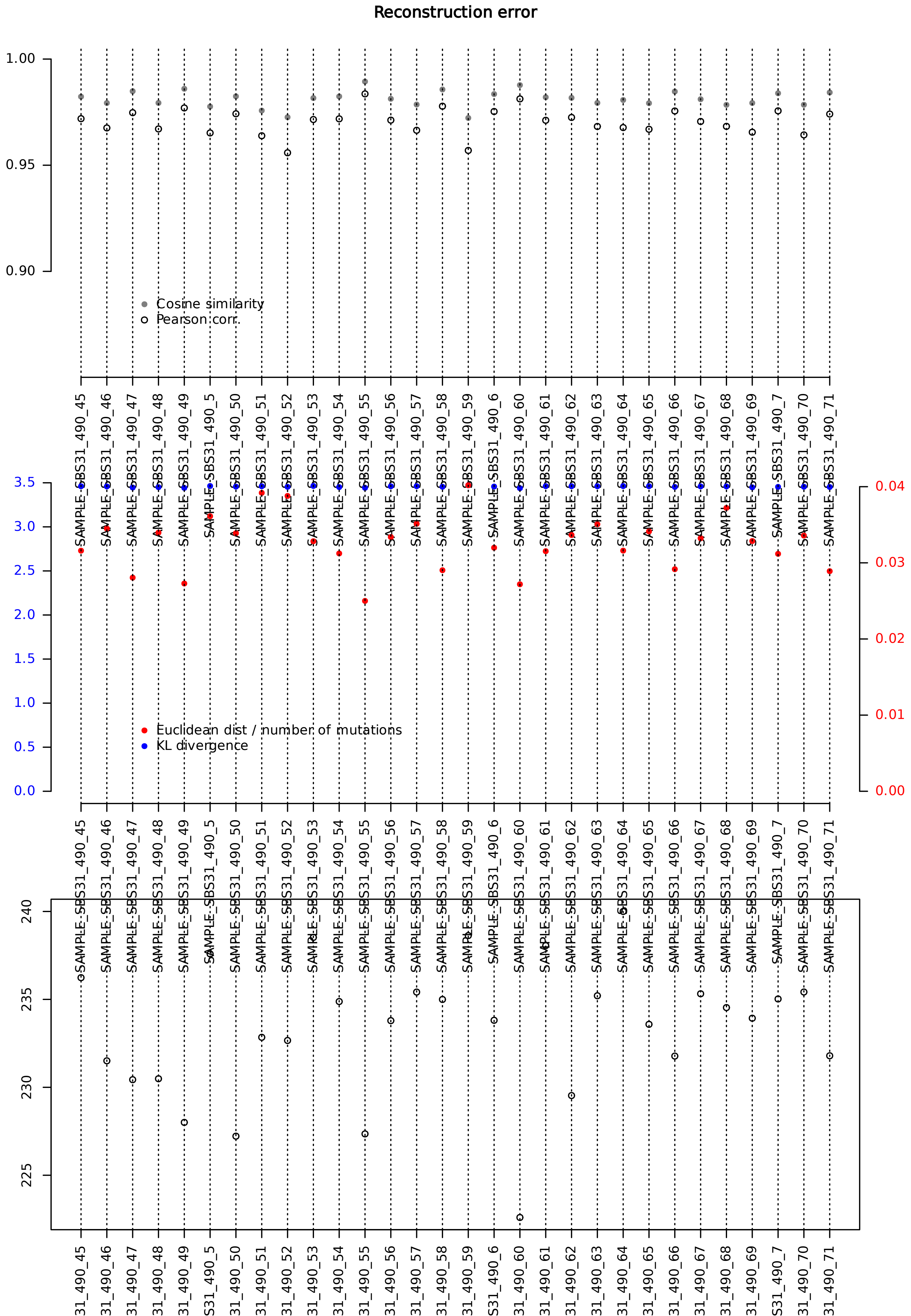

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
245
240
235
SAMPLE-SBS31_415_90
SAMPLE-SBS31_415_91
SAMPLE-SBS31_415_92
SAMPLE-SBS31_415_93
SAMPLE-SBS31_415_94
SAMPLE-SBS31_415_95
SAMPLE-SBS31_415_96
SAMPLE-SBS31_415_97
SAMPLE-SBS31_415_98
SAMPLE-SBS31_415_99
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

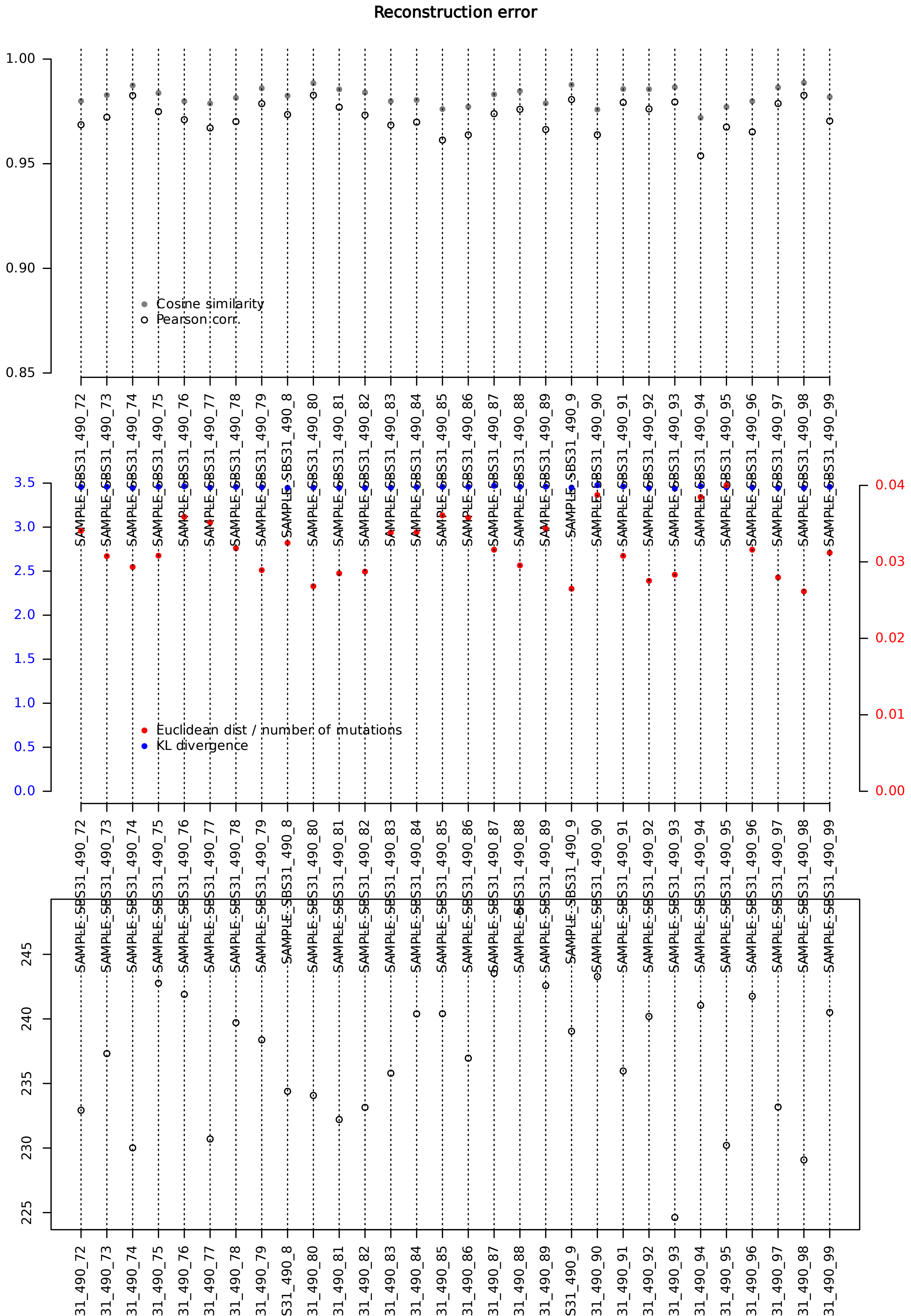

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.05
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
240
235
230
225
SAMPLE-SBS31_480_27
SAMPLE-SBS31_480_28
SAMPLE-SBS31_480_29
SAMPLE-SBS31_480_3
SAMPLE-SBS31_480_30
SAMPLE-SBS31_480_31
SAMPLE-SBS31_480_32
SAMPLE-SBS31_480_33
SAMPLE-SBS31_480_34
SAMPLE-SBS31_480_35
SAMPLE-SBS31_480_36
SAMPLE-SBS31_480_37
SAMPLE-SBS31_480_38
SAMPLE-SBS31_480_39
SAMPLE-SBS31_480_4
SAMPLE-SBS31_480_40
SAMPLE-SBS31_480_41
SAMPLE-SBS31_480_42
SAMPLE-SBS31_480_43
SAMPLE-SBS31_480_44
SAMPLE-SBS31_480_45
SAMPLE-SBS31_480_46
SAMPLE-SBS31_480_47
SAMPLE-SBS31_480_48
SAMPLE-SBS31_480_49
SAMPLE-SBS31_480_5
SAMPLE-SBS31_480_50
SAMPLE-SBS31_480_51
SAMPLE-SBS31_480_52
SAMPLE-SBS31_480_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
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
SAMPLE-SBS31_480_64
SAMPLE-SBS31_480_65
SAMPLE-SBS31_480_66
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

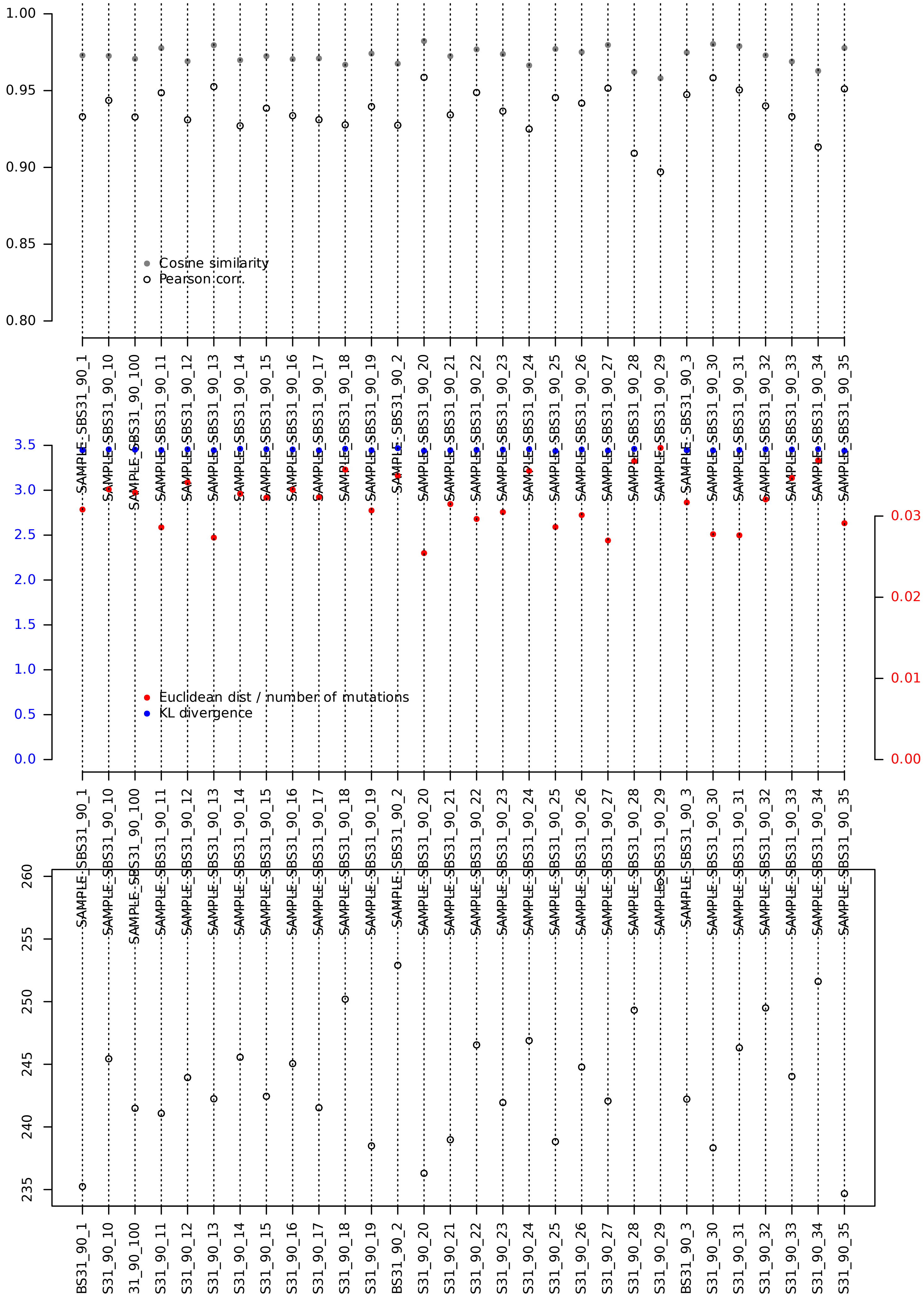

Reconstruction error

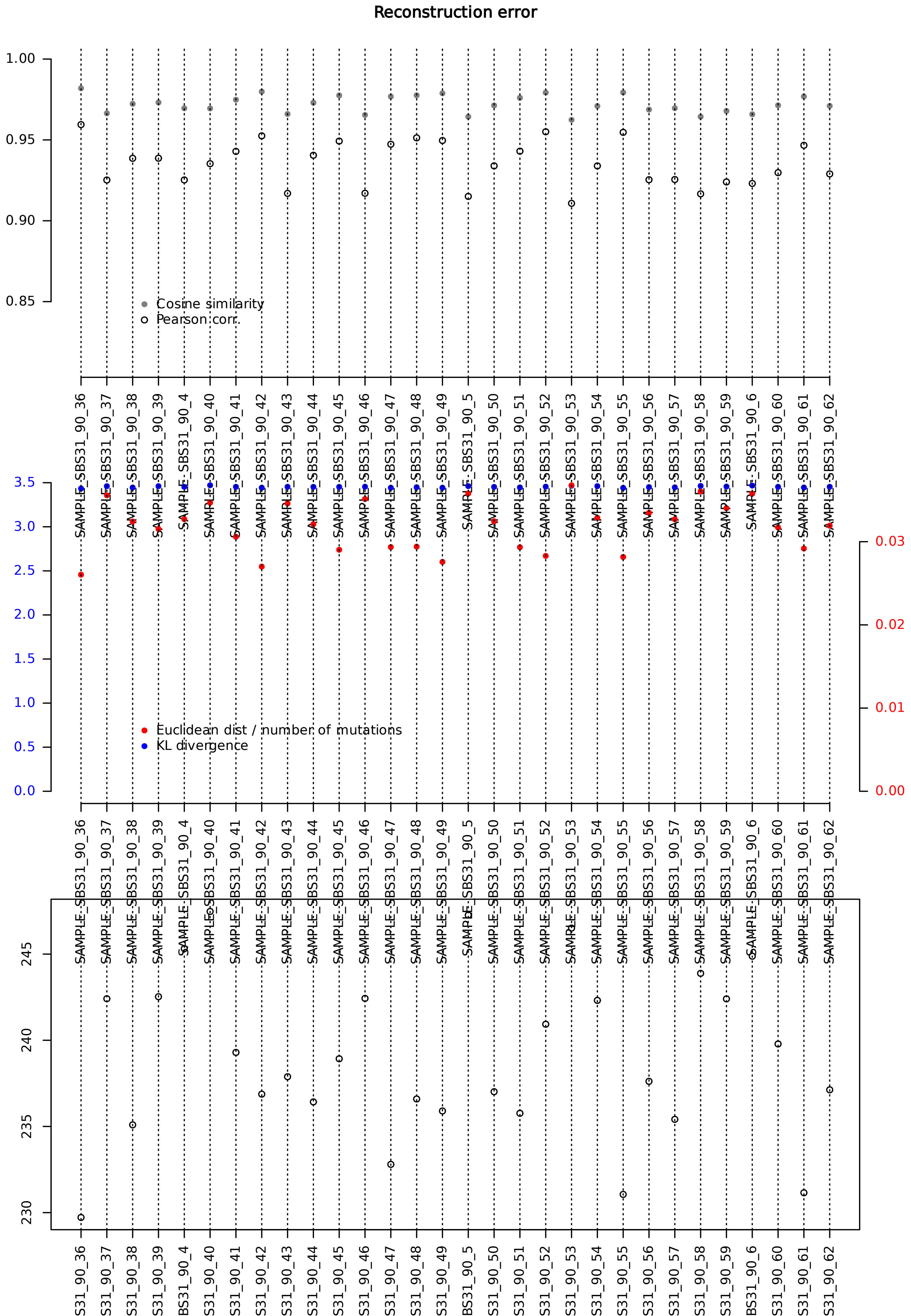

Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.04
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
245
240
235
230
225
SAMPLE_SBS31_490_18
SAMPLE_SBS31_490_19
SAMPLE_SBS31_490_2
SAMPLE_SBS31_490_20
SAMPLE_SBS31_490_21
SAMPLE_SBS31_490_22
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
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


Reconstruction error
1.00
0.95
0.90
Cosine similarity
Pearson corr.
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
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
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
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
245
240
235
230
225
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
SAMPLE-SBS31_490_90
SAMPLE-SBS31_490_91
SAMPLE-SBS31_490_92
SAMPLE-SBS31_490_93
SAMPLE-SBS31_490_94
SAMPLE-SBS31_490_95
SAMPLE-SBS31_490_96
SAMPLE-SBS31_490_97
SAMPLE-SBS31_490_98
SAMPLE-SBS31_490_99

Reconstruction error




Reconstruction error
1.00
0.95
0.90
0.85
Cosine similarity
Pearson corr.
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
SAMPLE-SBS31_90_45
SAMPLE-SBS31_90_46
SAMPLE-SBS31_90_47
SAMPLE-SBS31_90_48
SAMPLE-SBS31_90_49
SAMPLE-SBS31_90_5
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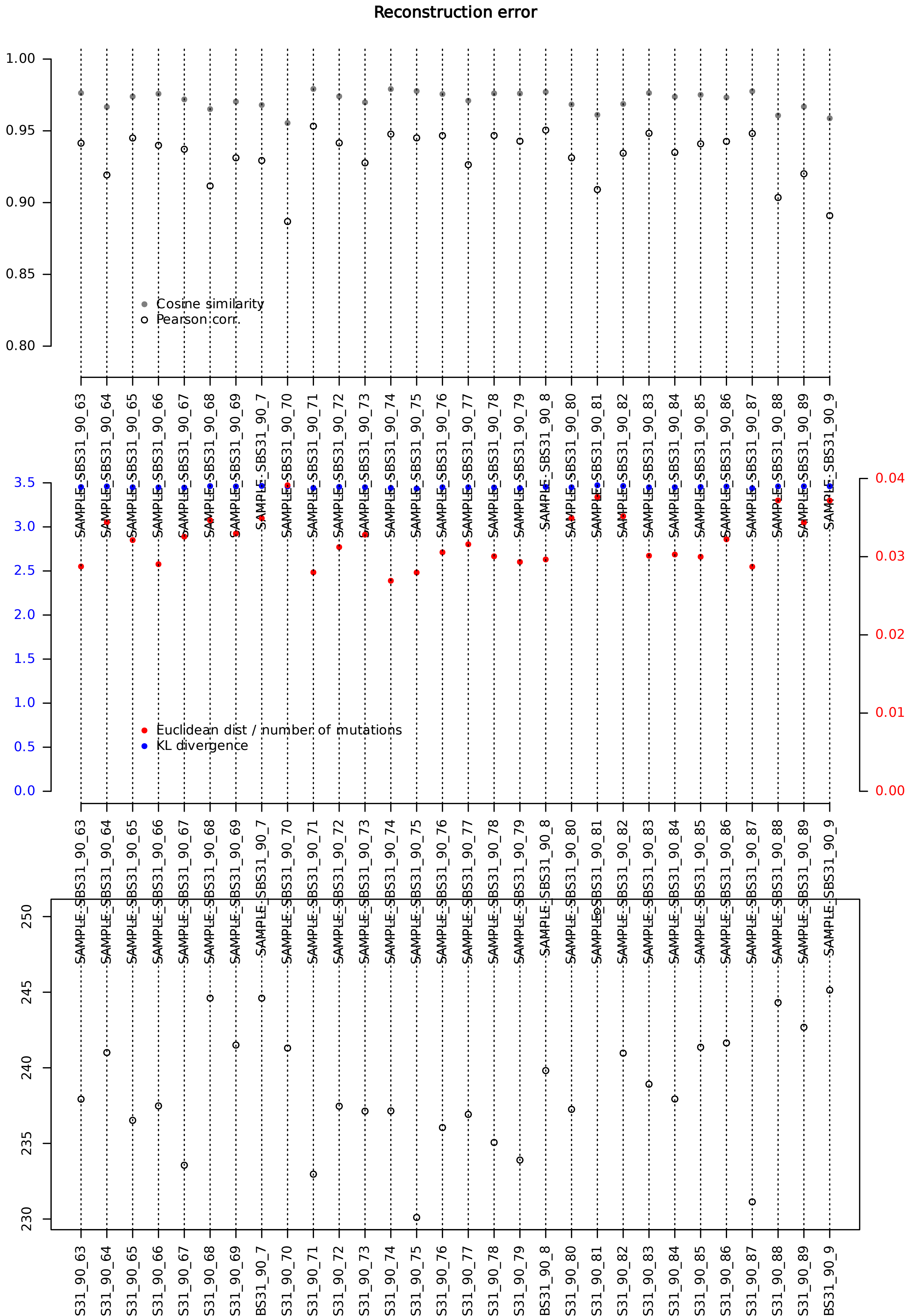
SAMPLE-SBS31_90_57
SAMPLE-SBS31_90_58
SAMPLE-SBS31_90_59
SAMPLE-SBS31_90_6
SAMPLE-SBS31_90_60
SAMPLE-SBS31_90_61
SAMPLE-SBS31_90_62
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.03
0.02
0.01
0.00
Euclidean dist / number of mutations
KL divergence
245
240
235
230


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
250
245
240
235
230
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
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
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SAMPLE-SBS31_90_84
SAMPLE-SBS31_90_85
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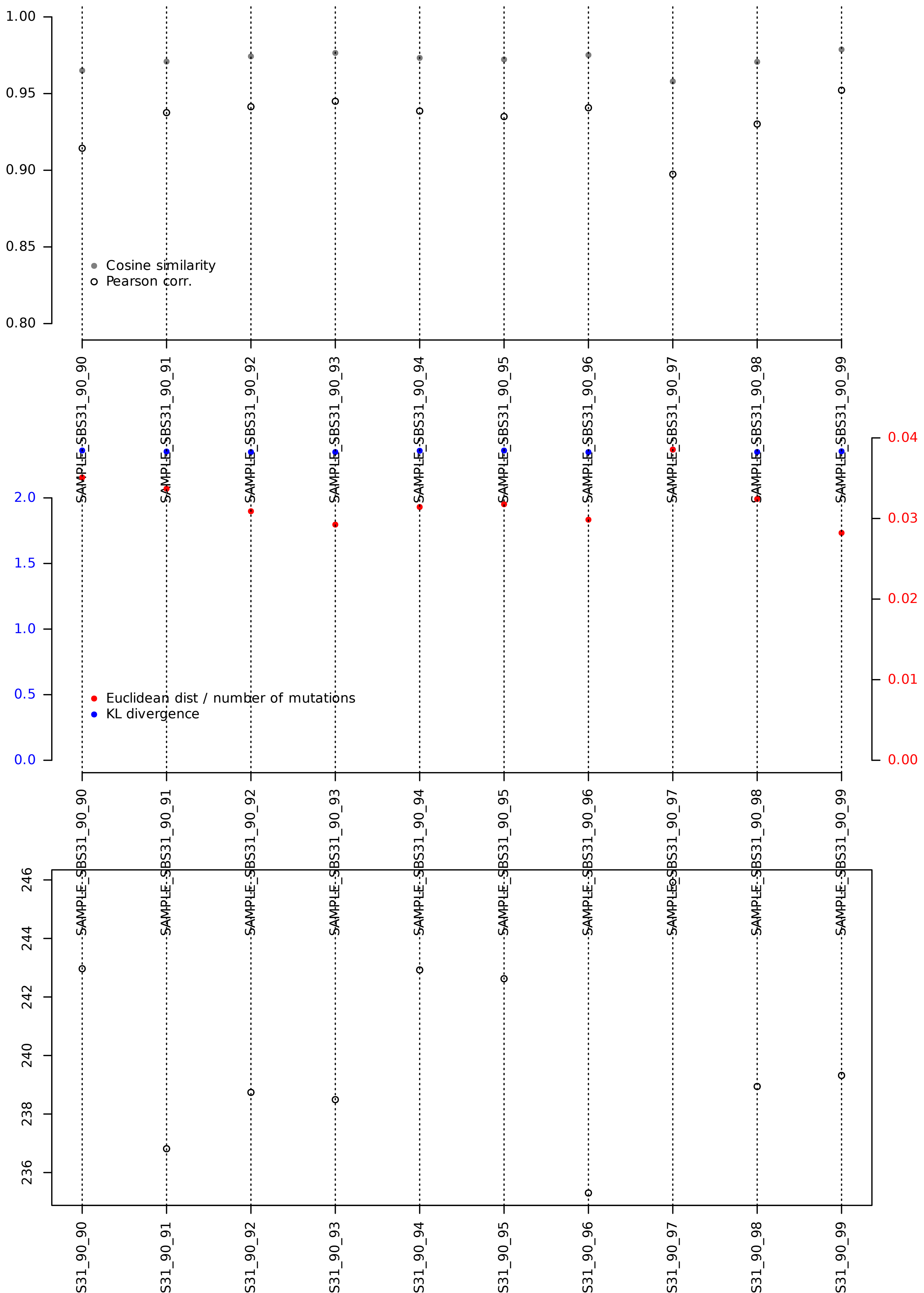
SAMPLE-SBS31_90_89
SAMPLE-SBS31_90_9

Reconstruction error