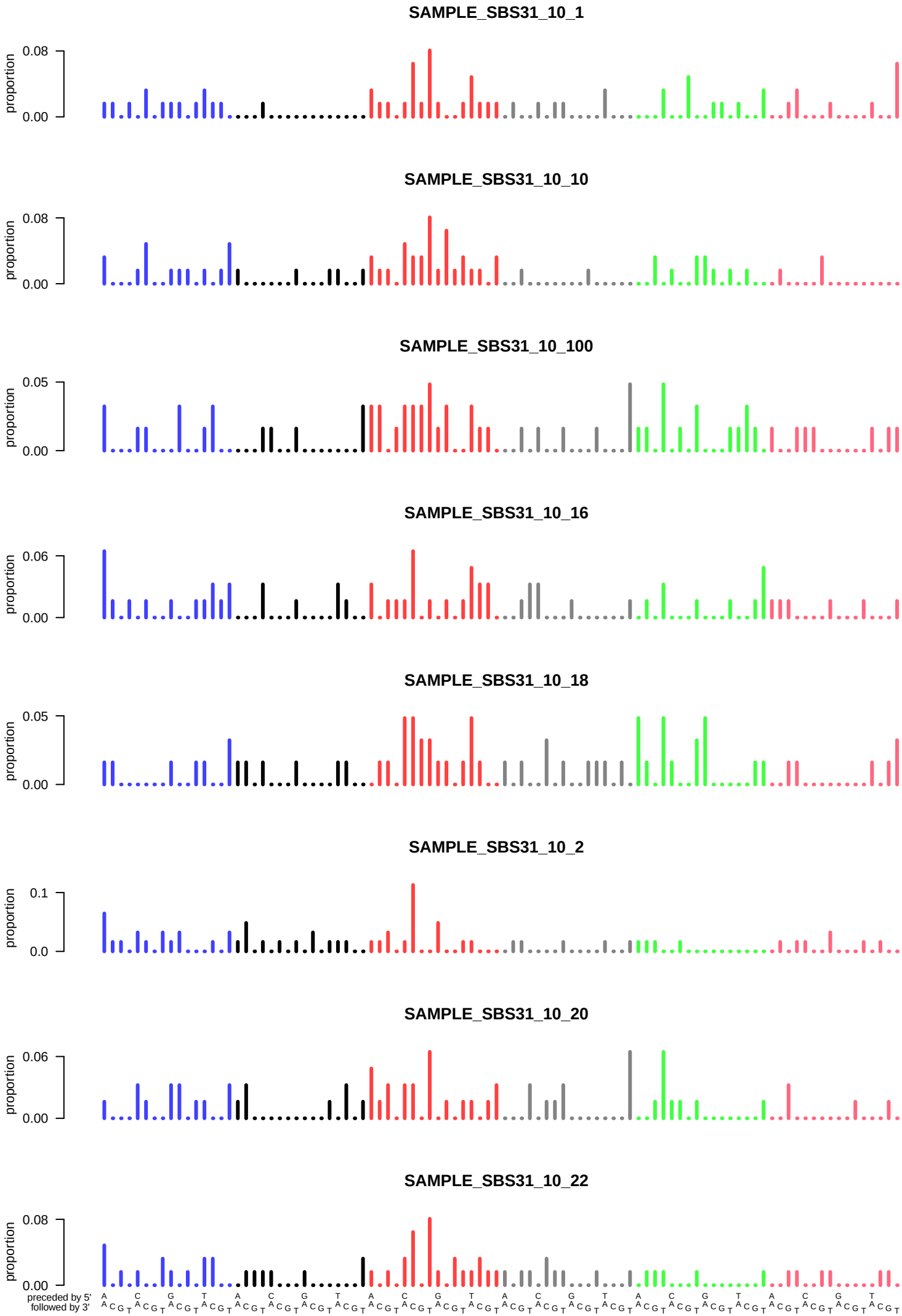
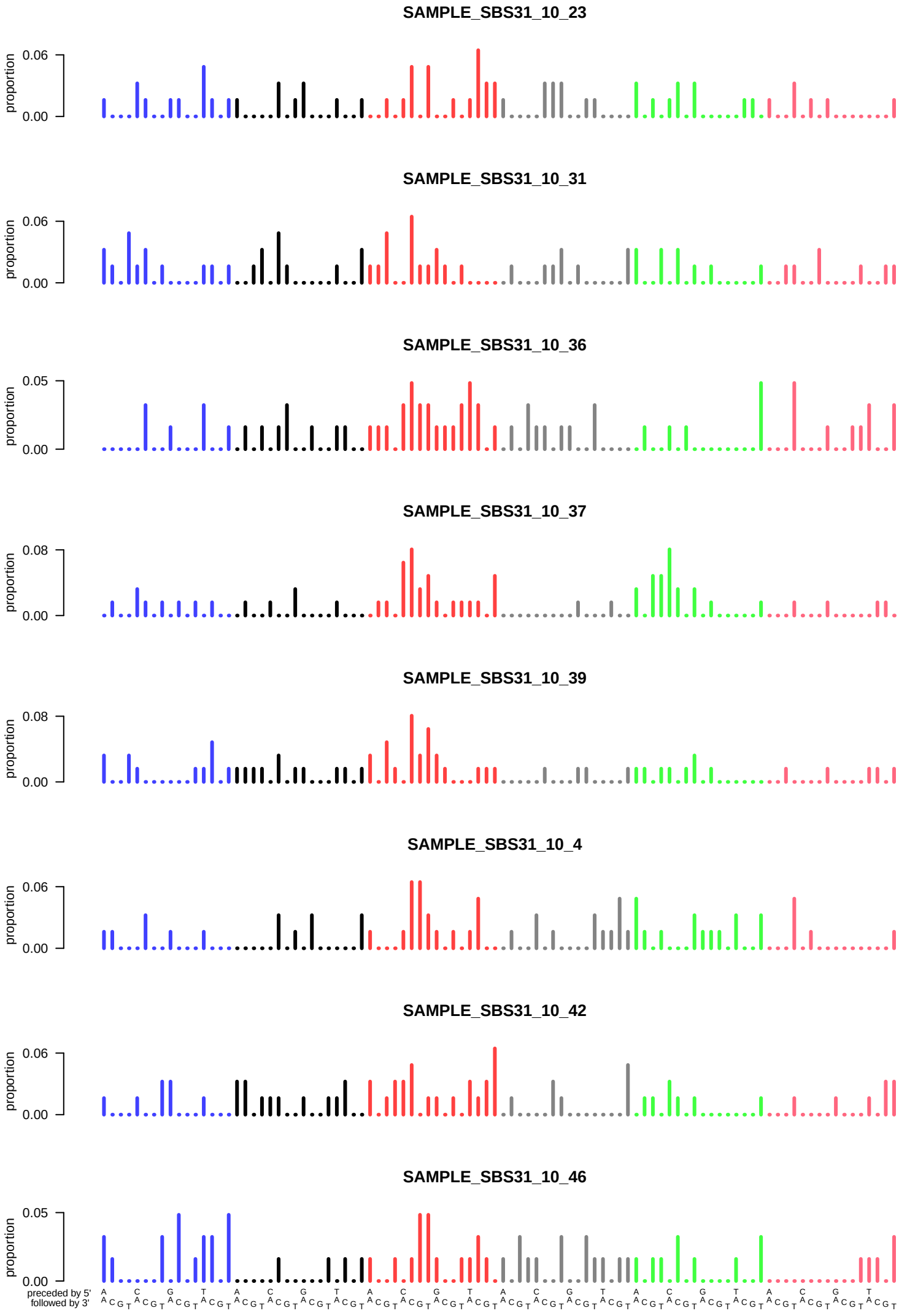
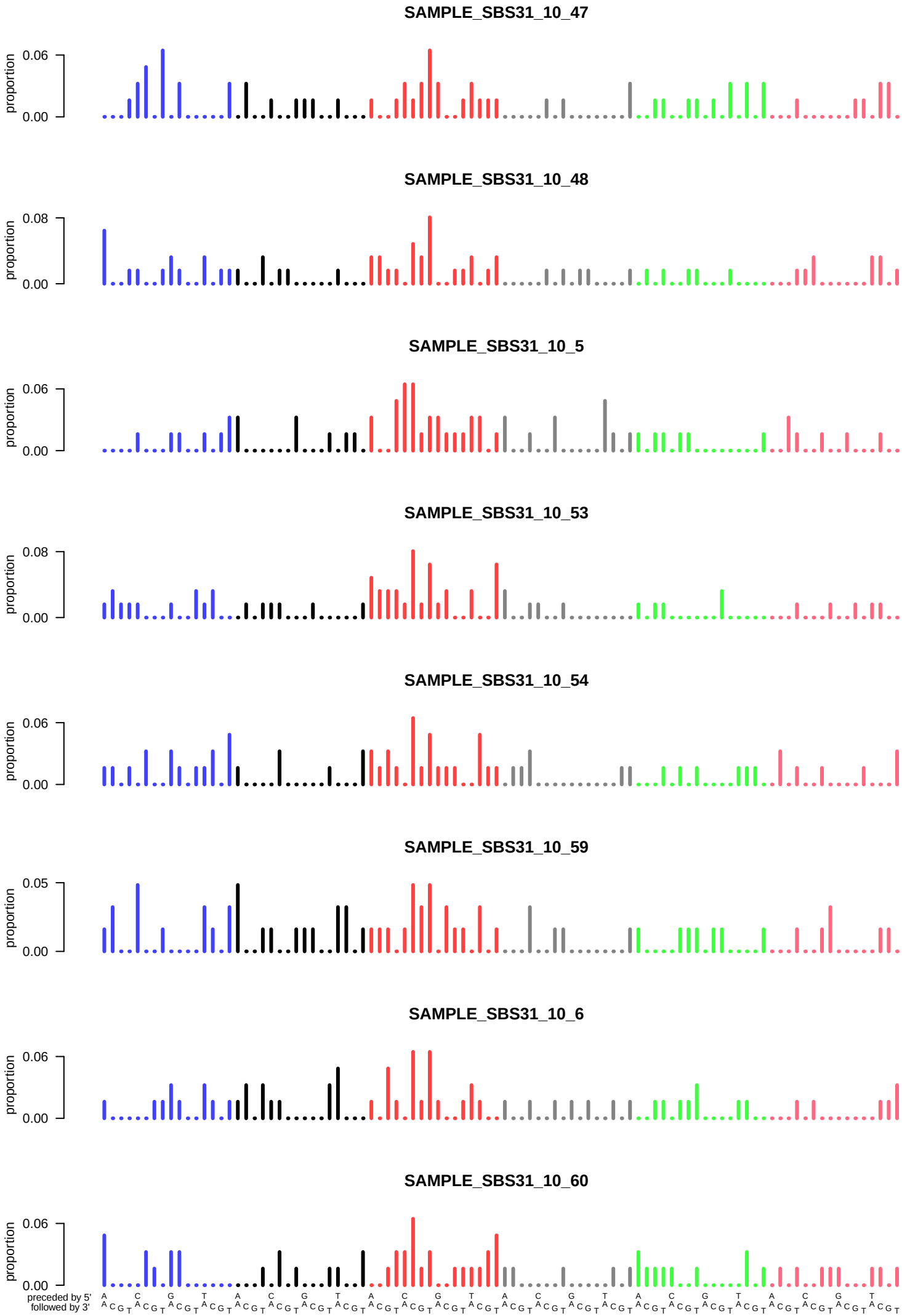
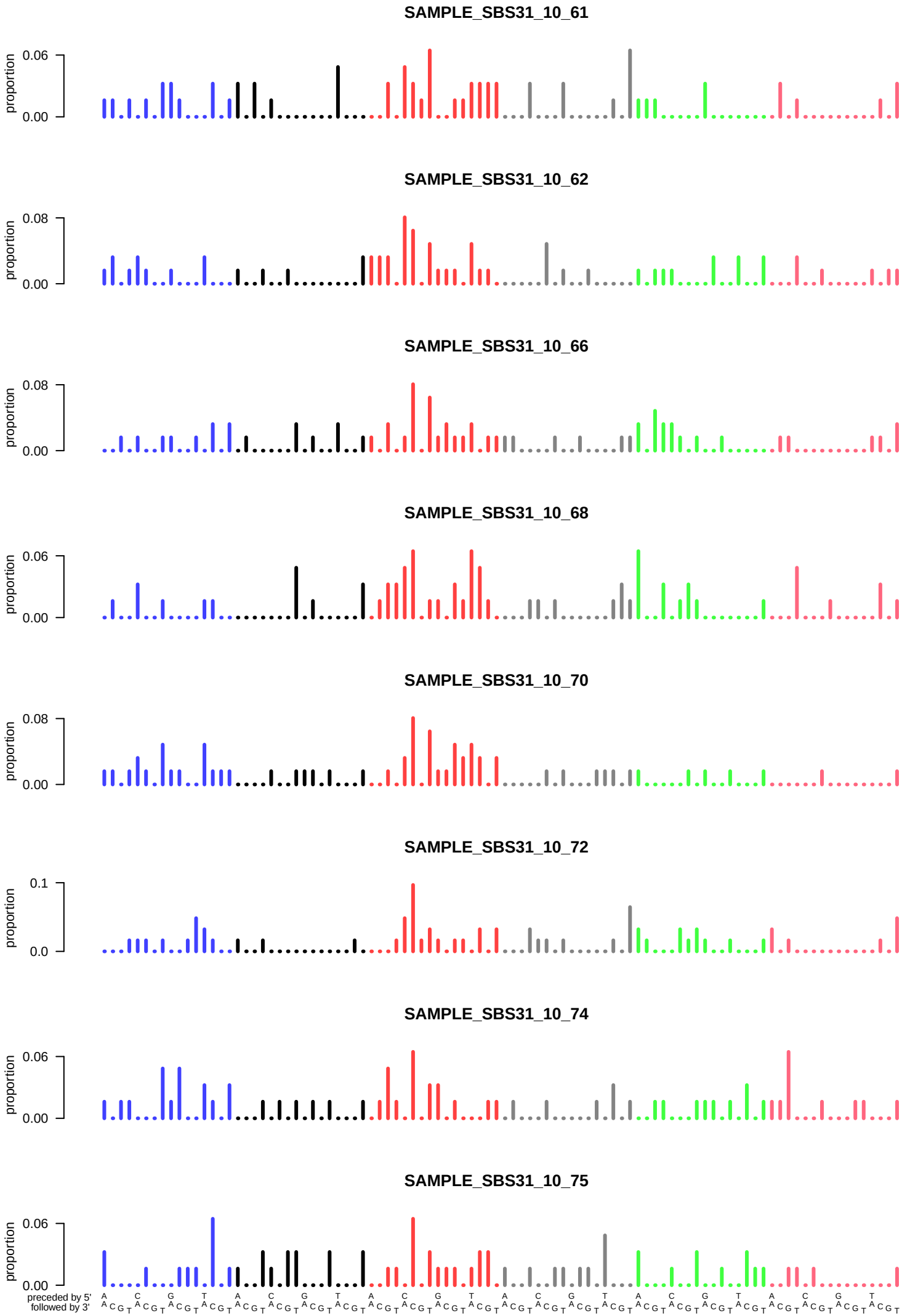
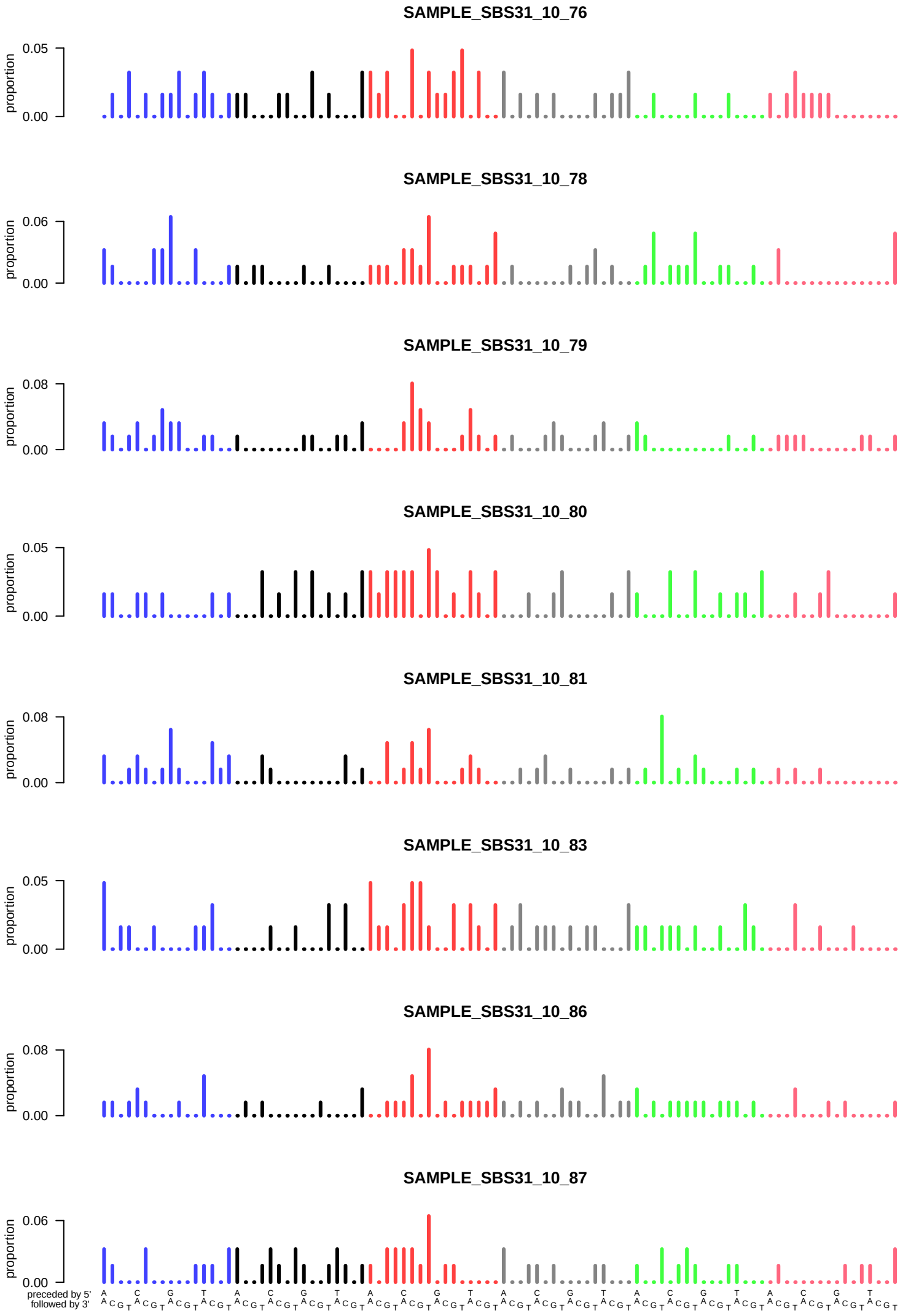
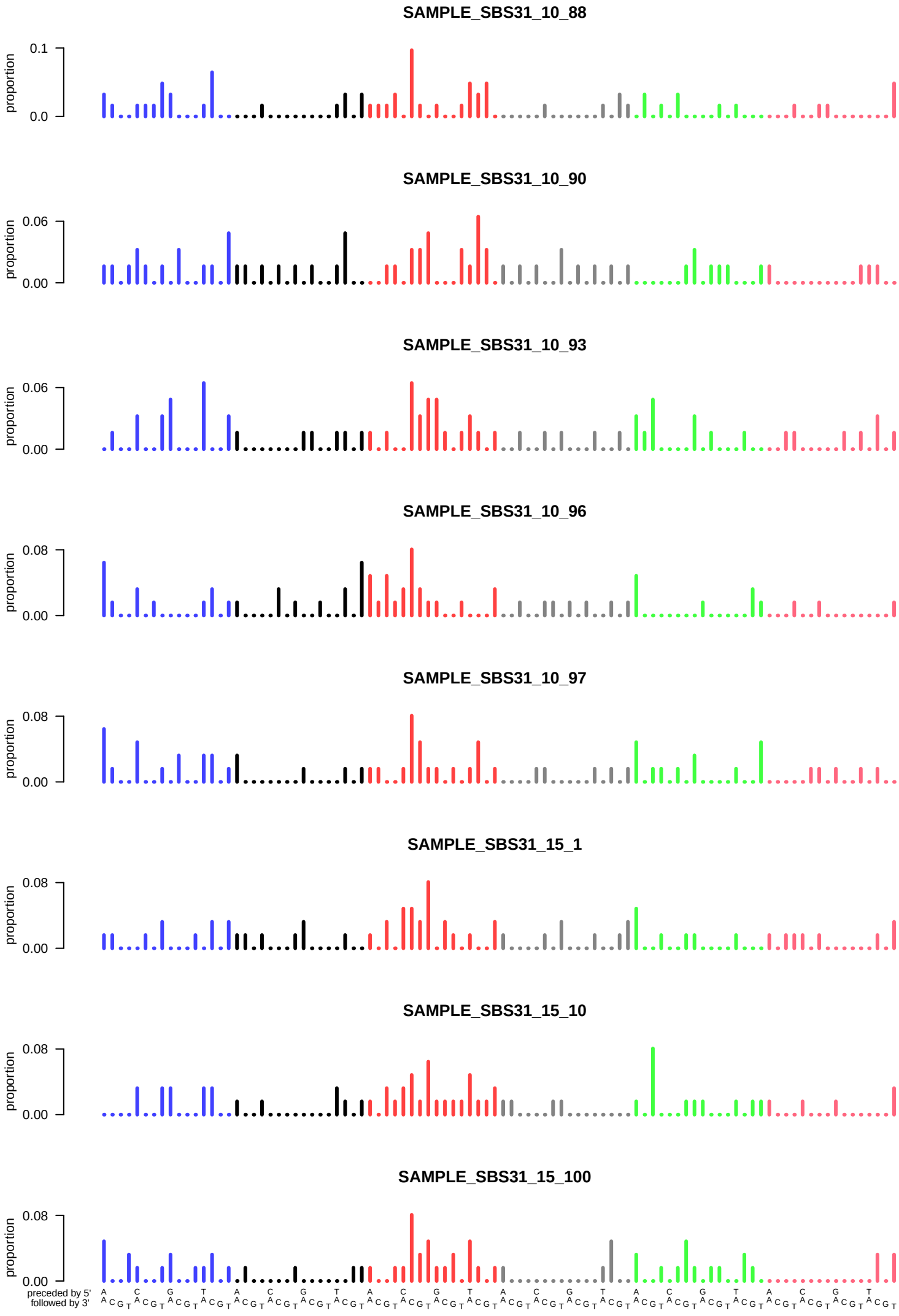

SAMPLE_SBS31_10_1
proportion
0.08
0.00
SAMPLE_SBS31_10_10
proportion
0.08
0.00
SAMPLE_SBS31_10_100
proportion
0.05
0.00
SAMPLE_SBS31_10_16
proportion
0.06
0.00
SAMPLE_SBS31_10_18
proportion
0.05
0.00
SAMPLE_SBS31_10_2
proportion
0.1
0.0
SAMPLE_SBS31_10_20
proportion
0.06
0.00
SAMPLE_SBS31_10_22
proportion
0.08
0.00
preceded by 5'
followed by 3'

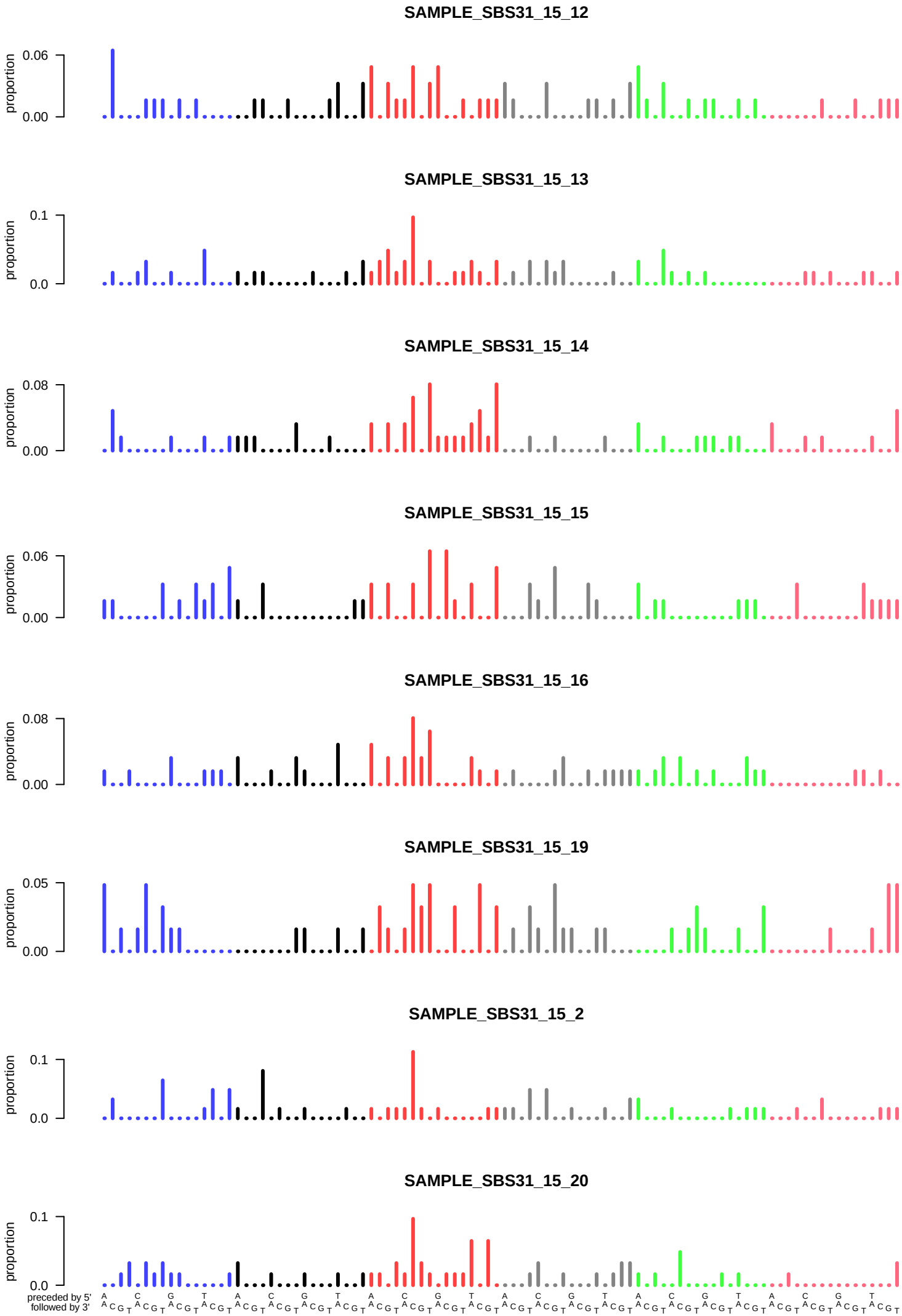

SAMPLE_SBS31_10_23
proportion
0.06
0.00
SAMPLE_SBS31_10_31
proportion
0.06
0.00
SAMPLE_SBS31_10_36
proportion
0.05
0.00
SAMPLE_SBS31_10_37
proportion
0.08
0.00
SAMPLE_SBS31_10_39
proportion
0.08
0.00
SAMPLE_SBS31_10_4
proportion
0.06
0.00
SAMPLE_SBS31_10_42
proportion
0.06
0.00
SAMPLE_SBS31_10_46
proportion
0.05
0.00
preceded by 5'
followed by 3'
A C G T

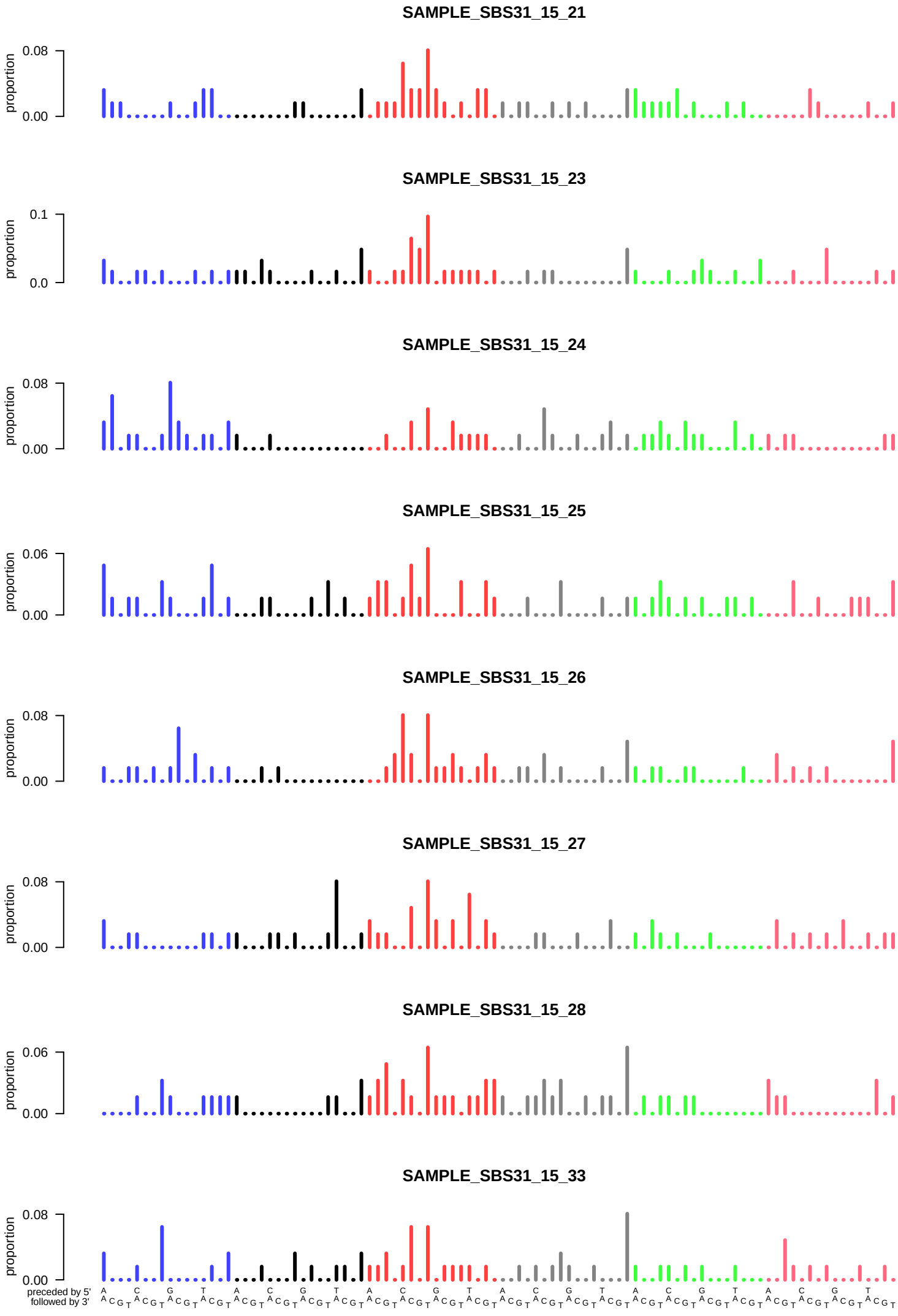

SAMPLE_SBS31_10_47
proportion
0.06
0.00
SAMPLE_SBS31_10_48
proportion
0.08
0.00
SAMPLE_SBS31_10_5
proportion
0.06
0.00
SAMPLE_SBS31_10_53
proportion
0.08
0.00
SAMPLE_SBS31_10_54
proportion
0.06
0.00
SAMPLE_SBS31_10_59
proportion
0.05
0.00
SAMPLE_SBS31_10_6
proportion
0.06
0.00
SAMPLE_SBS31_10_60
proportion
0.06
0.00
preceded by 5'
followed by 3'

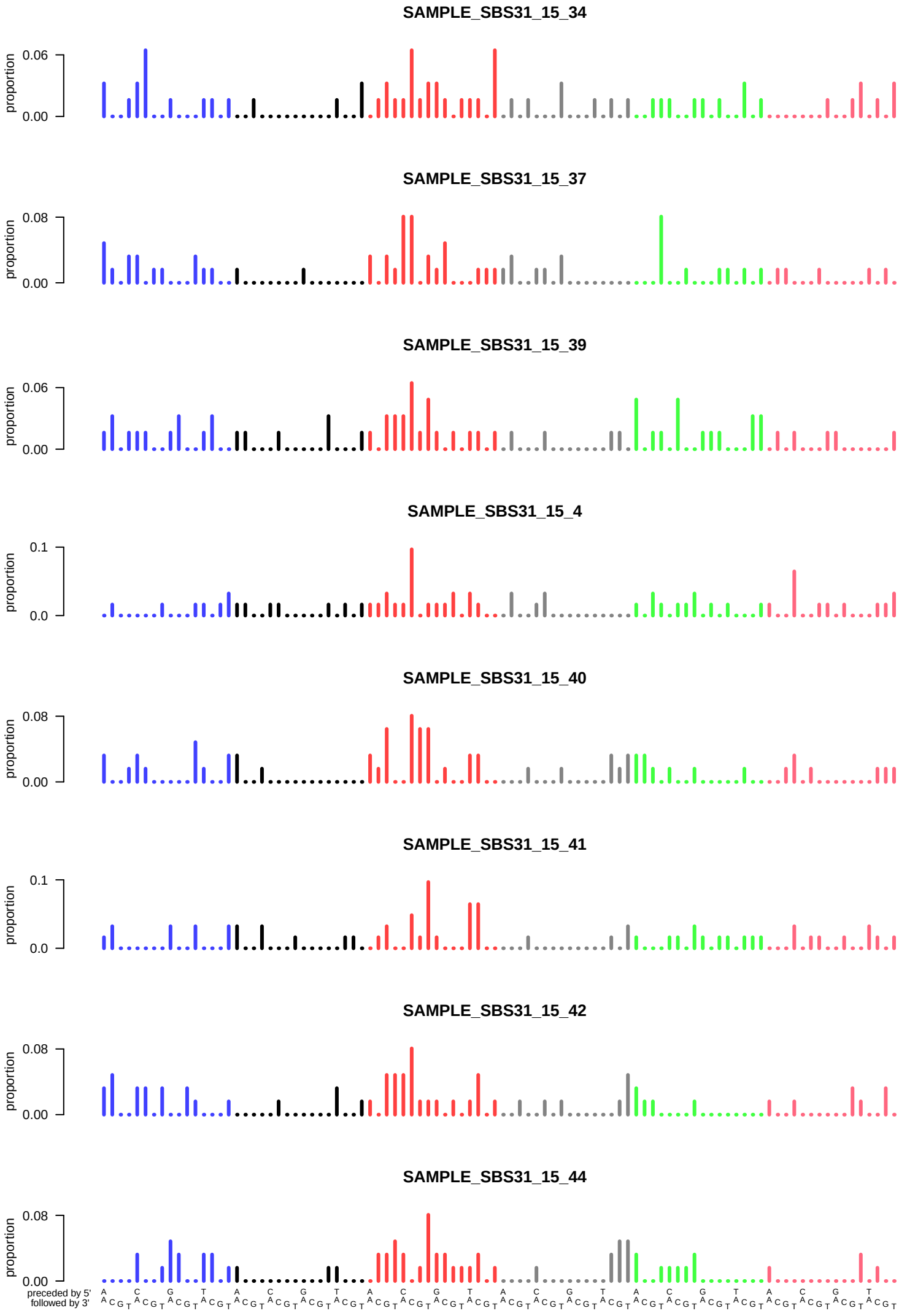

SAMPLE_SBS31_10_61
proportion
0.06
0.00
SAMPLE_SBS31_10_62
proportion
0.08
0.00
SAMPLE_SBS31_10_66
proportion
0.08
0.00
SAMPLE_SBS31_10_68
proportion
0.06
0.00
SAMPLE_SBS31_10_70
proportion
0.08
0.00
SAMPLE_SBS31_10_72
proportion
0.1
0.0
SAMPLE_SBS31_10_74
proportion
0.06
0.00
SAMPLE_SBS31_10_75
proportion
0.06
0.00
preceded by 5'
followed by 3'

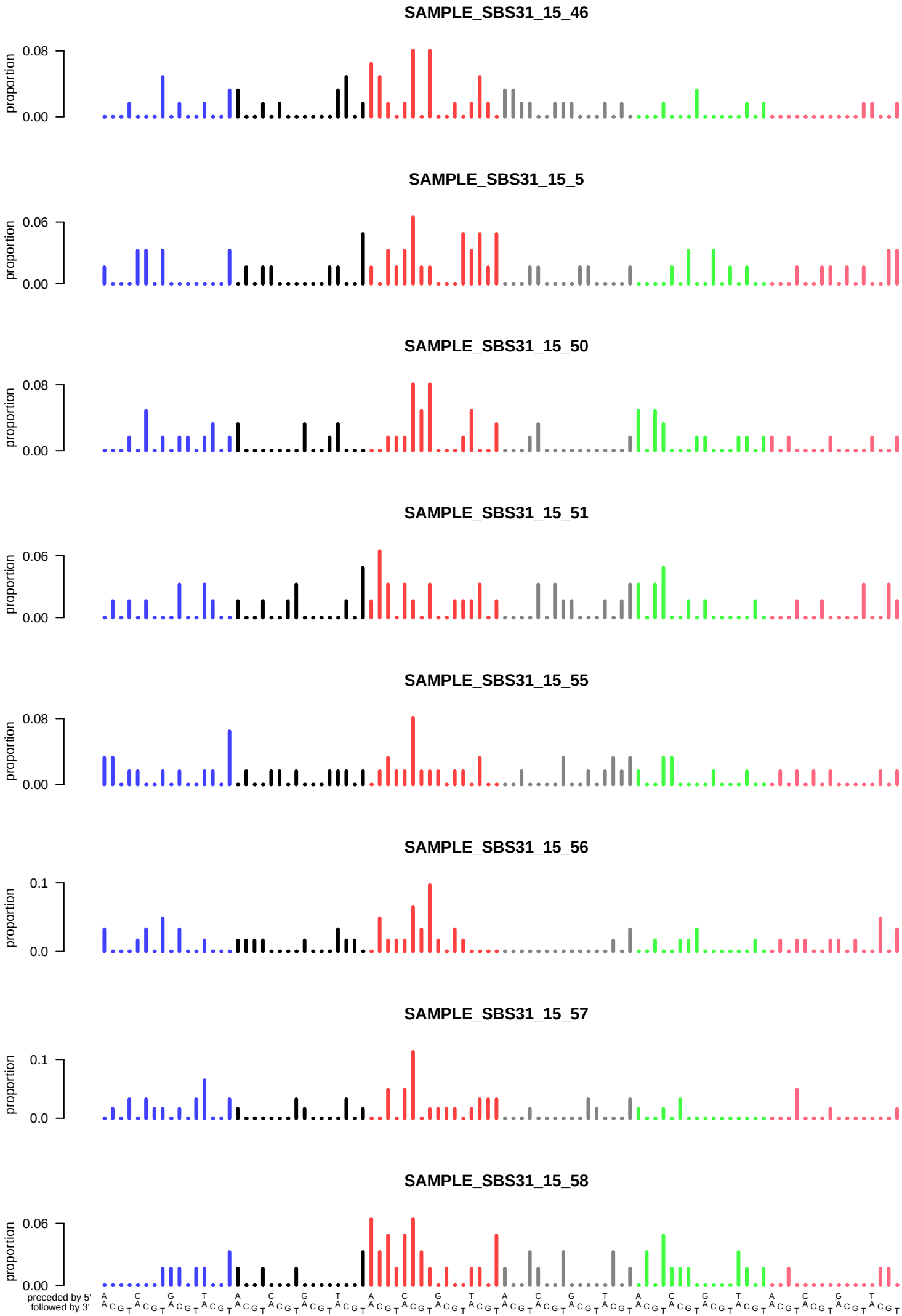

SAMPLE_SBS31_10_76
proportion
0.05
0.00
SAMPLE_SBS31_10_78
proportion
0.06
0.00
SAMPLE_SBS31_10_79
proportion
0.08
0.00
SAMPLE_SBS31_10_80
proportion
0.05
0.00
SAMPLE_SBS31_10_81
proportion
0.08
0.00
SAMPLE_SBS31_10_83
proportion
0.05
0.00
SAMPLE_SBS31_10_86
proportion
0.08
0.00
SAMPLE_SBS31_10_87
proportion
0.06
0.00
preceded by 5'
followed by 3'

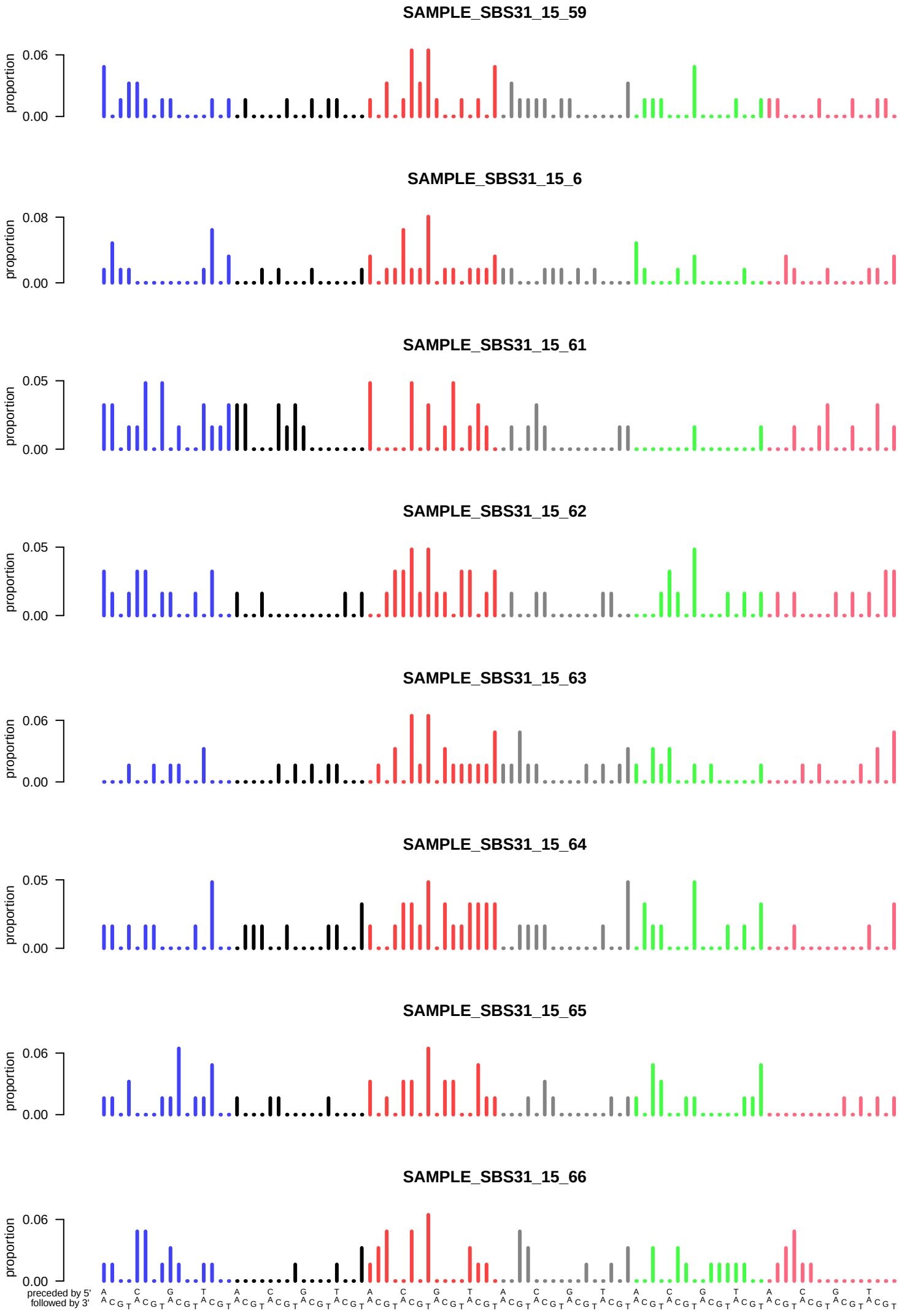

SAMPLE_SBS31_10_88
proportion
0.1
0.0
SAMPLE_SBS31_10_90
proportion
0.06
0.00
SAMPLE_SBS31_10_93
proportion
0.06
0.00
SAMPLE_SBS31_10_96
proportion
0.08
0.00
SAMPLE_SBS31_10_97
proportion
0.08
0.00
SAMPLE_SBS31_15_1
proportion
0.08
0.00
SAMPLE_SBS31_15_10
proportion
0.08
0.00
SAMPLE_SBS31_15_100
proportion
0.08
0.00
preceded by 5'
followed by 3'

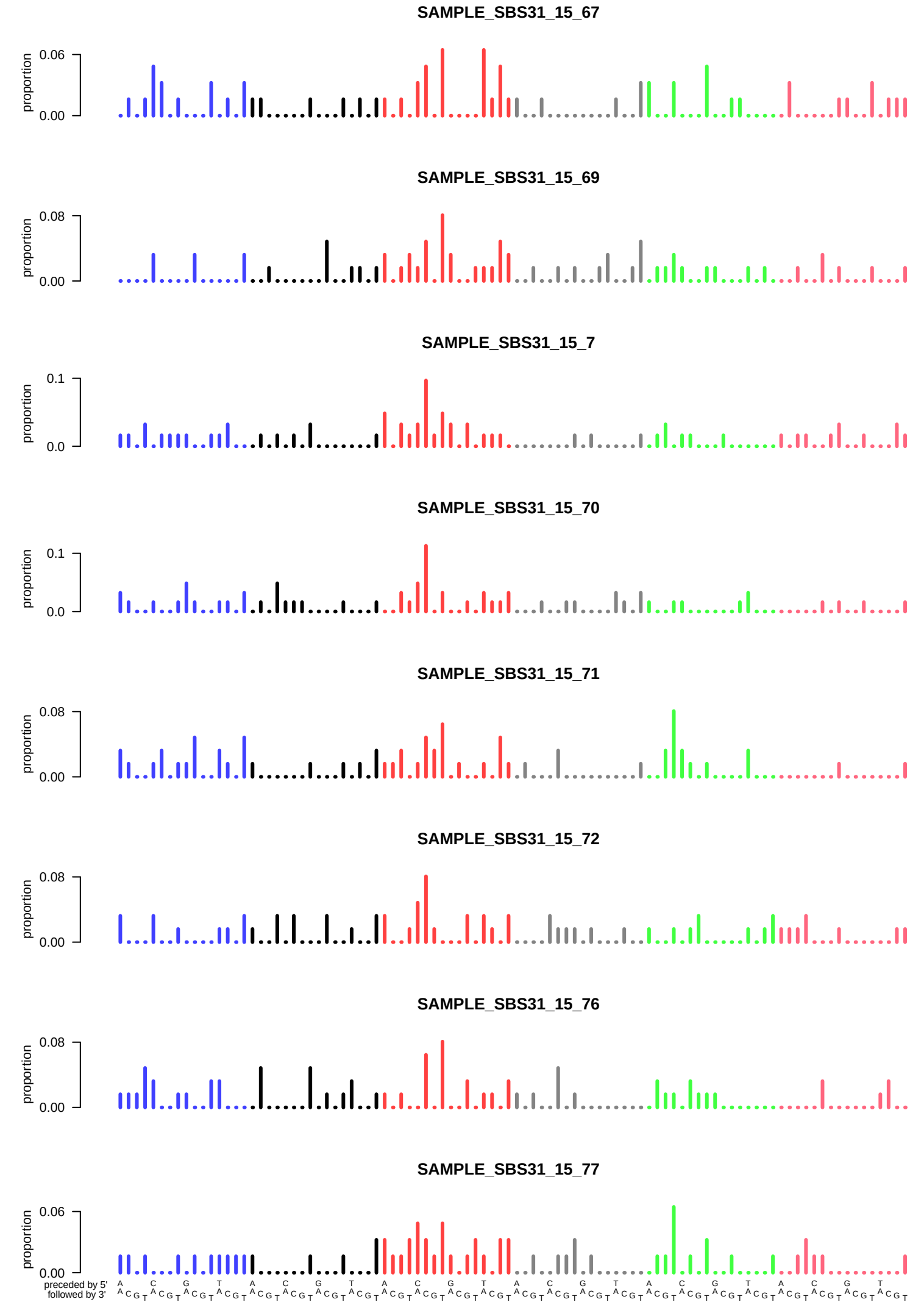

SAMPLE_SBS31_15_12
proportion
0.06
0.00
SAMPLE_SBS31_15_13
proportion
0.1
0.0
SAMPLE_SBS31_15_14
proportion
0.08
0.00
SAMPLE_SBS31_15_15
proportion
0.06
0.00
SAMPLE_SBS31_15_16
proportion
0.08
0.00
SAMPLE_SBS31_15_19
proportion
0.05
0.00
SAMPLE_SBS31_15_2
proportion
0.1
0.0
SAMPLE_SBS31_15_20
proportion
0.1
0.0
preceded by 5'
followed by 3'

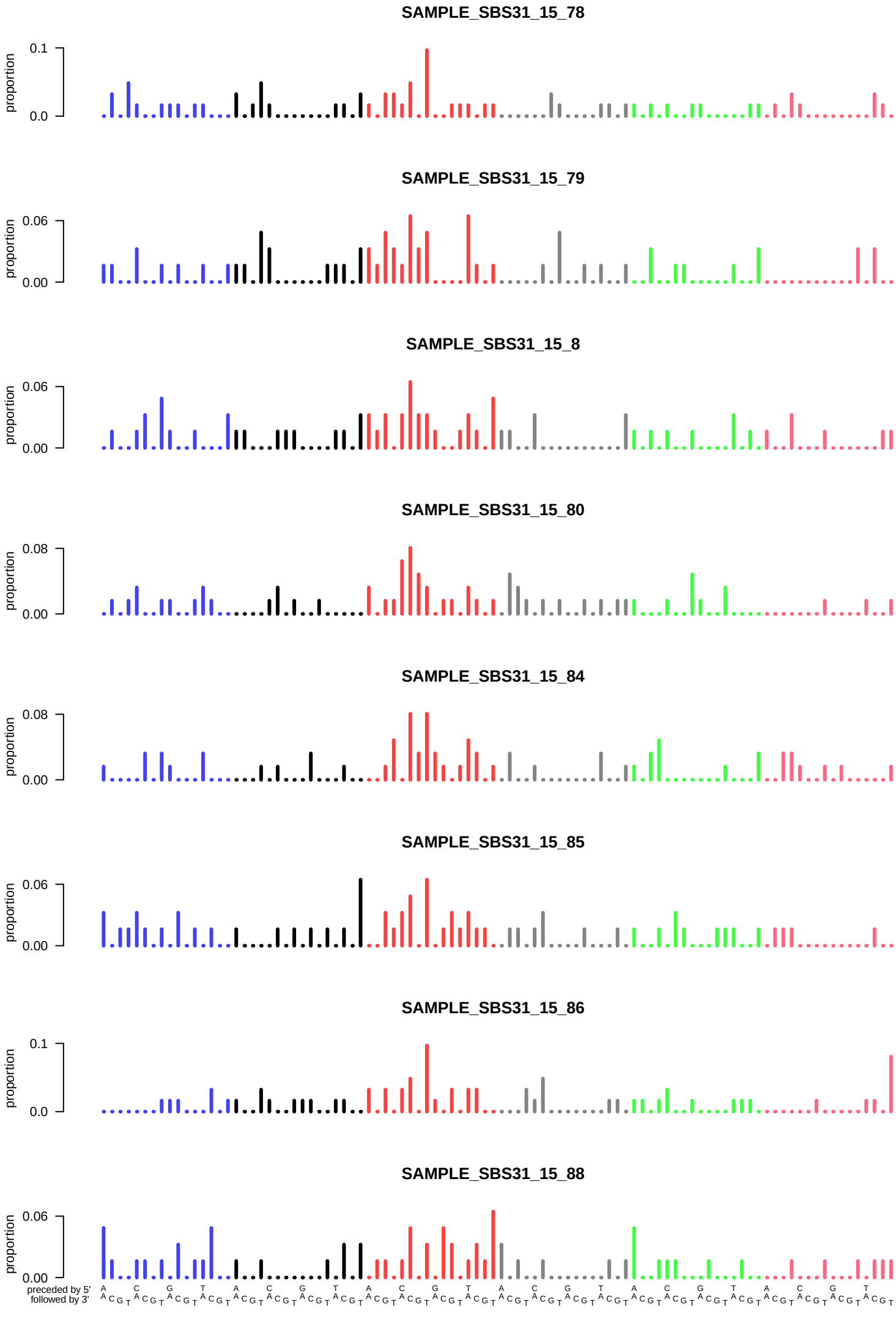

SAMPLE_SBS31_15_21
proportion
0.08
0.00
SAMPLE_SBS31_15_23
proportion
0.1
0.0
SAMPLE_SBS31_15_24
proportion
0.08
0.00
SAMPLE_SBS31_15_25
proportion
0.06
0.00
SAMPLE_SBS31_15_26
proportion
0.08
0.00
SAMPLE_SBS31_15_27
proportion
0.08
0.00
SAMPLE_SBS31_15_28
proportion
0.06
0.00
SAMPLE_SBS31_15_33
proportion
0.08
0.00
preceded by 5'
followed by 3'

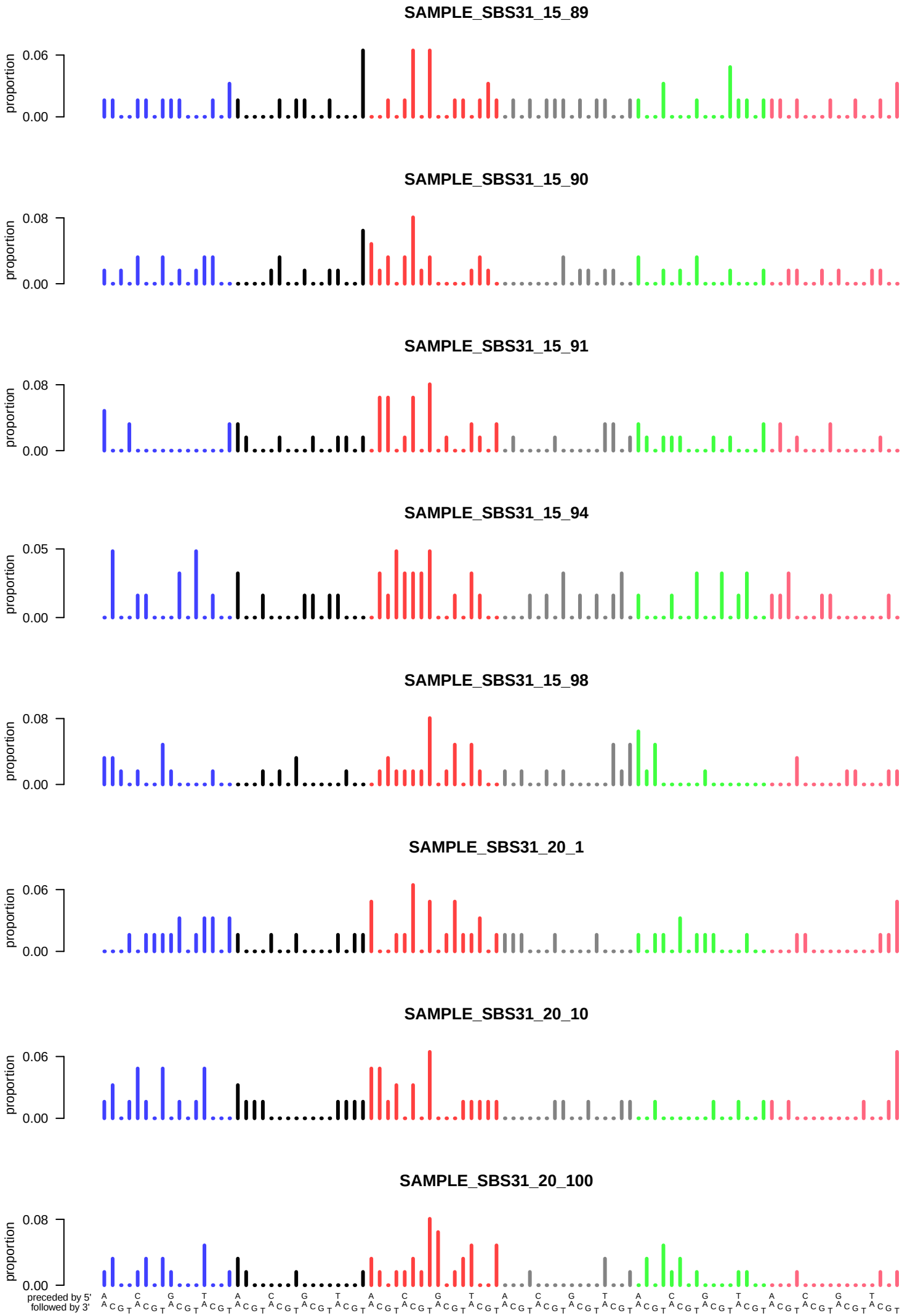

SAMPLE_SBS31_15_34
proportion
0.06
0.00
SAMPLE_SBS31_15_37
proportion
0.08
0.00
SAMPLE_SBS31_15_39
proportion
0.06
0.00
SAMPLE_SBS31_15_4
proportion
0.1
0.0
SAMPLE_SBS31_15_40
proportion
0.08
0.00
SAMPLE_SBS31_15_41
proportion
0.1
0.0
SAMPLE_SBS31_15_42
proportion
0.08
0.00
SAMPLE_SBS31_15_44
proportion
0.08
0.00
preceded by 5'
followed by 3'

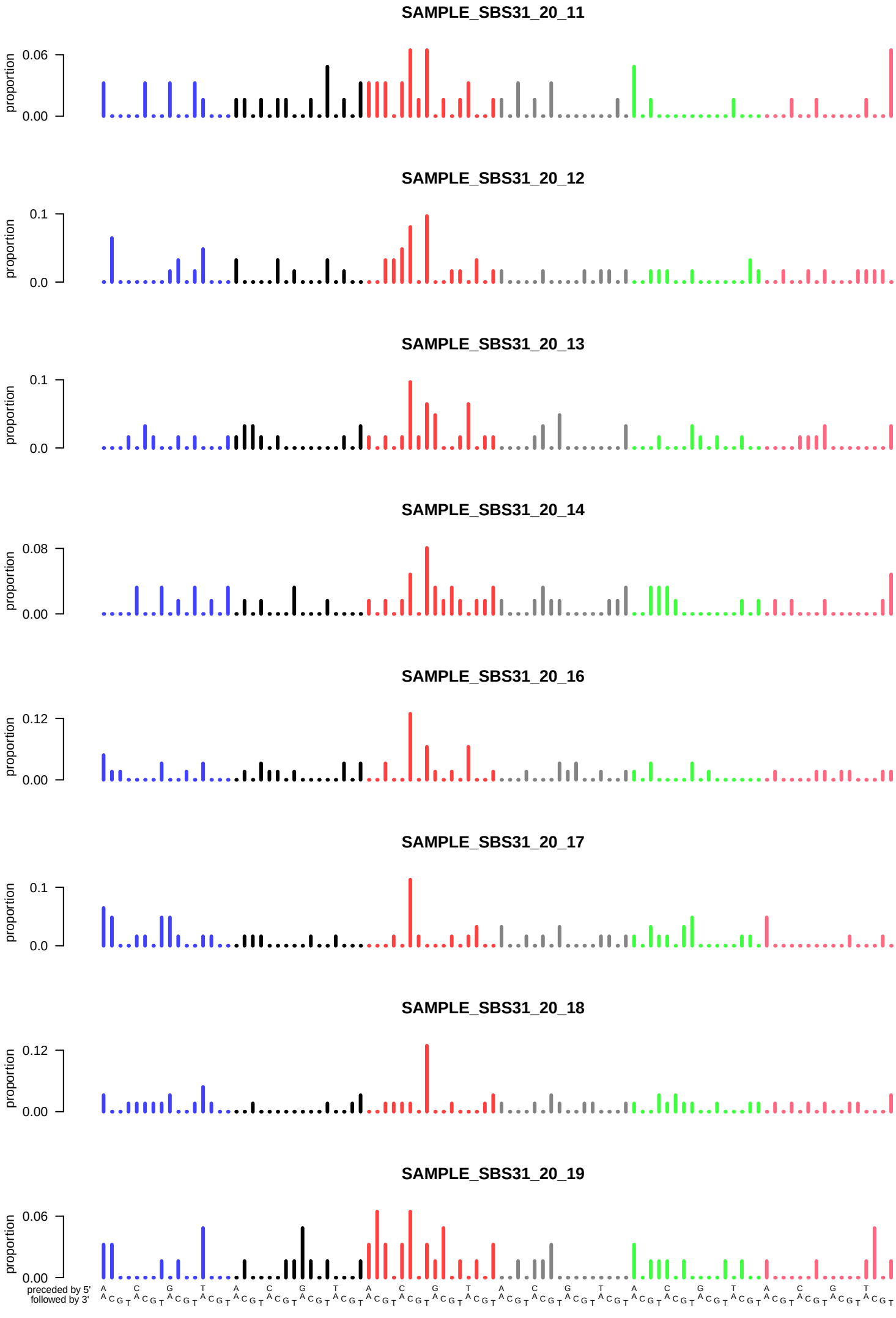

SAMPLE_SBS31_15_46
proportion
0.08
0.00
SAMPLE_SBS31_15_5
proportion
0.06
0.00
SAMPLE_SBS31_15_50
proportion
0.08
0.00
SAMPLE_SBS31_15_51
proportion
0.06
0.00
SAMPLE_SBS31_15_55
proportion
0.08
0.00
SAMPLE_SBS31_15_56
proportion
0.1
0.0
SAMPLE_SBS31_15_57
proportion
0.1
0.0
SAMPLE_SBS31_15_58
proportion
0.06
0.00
preceded by 5'
followed by 3'

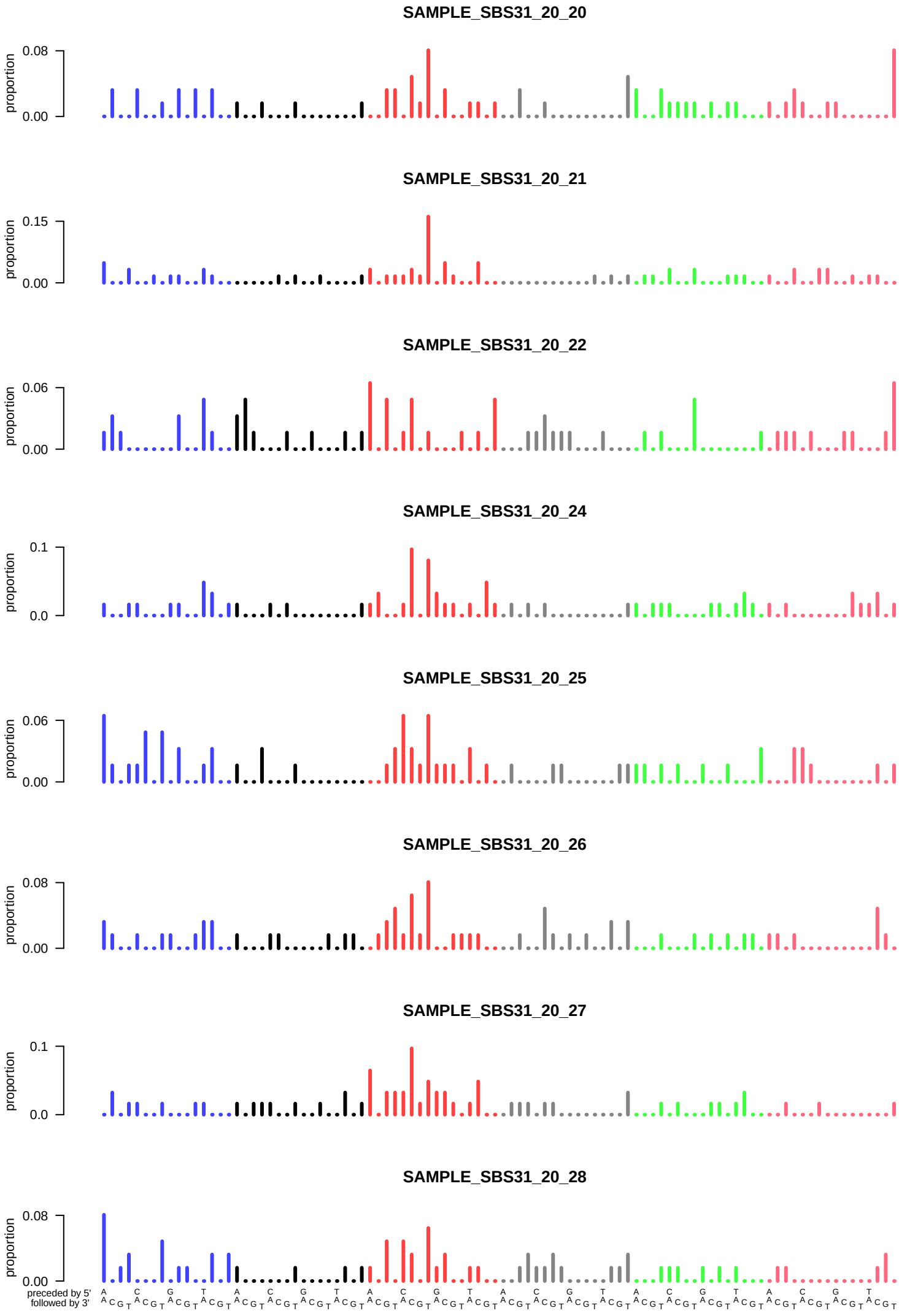

SAMPLE_SBS31_15_59
proportion
0.06
0.00
SAMPLE_SBS31_15_6
proportion
0.08
0.00
SAMPLE_SBS31_15_61
proportion
0.05
0.00
SAMPLE_SBS31_15_62
proportion
0.05
0.00
SAMPLE_SBS31_15_63
proportion
0.06
0.00
SAMPLE_SBS31_15_64
proportion
0.05
0.00
SAMPLE_SBS31_15_65
proportion
0.06
0.00
SAMPLE_SBS31_15_66
proportion
0.06
0.00
preceded by 5'
followed by 3'

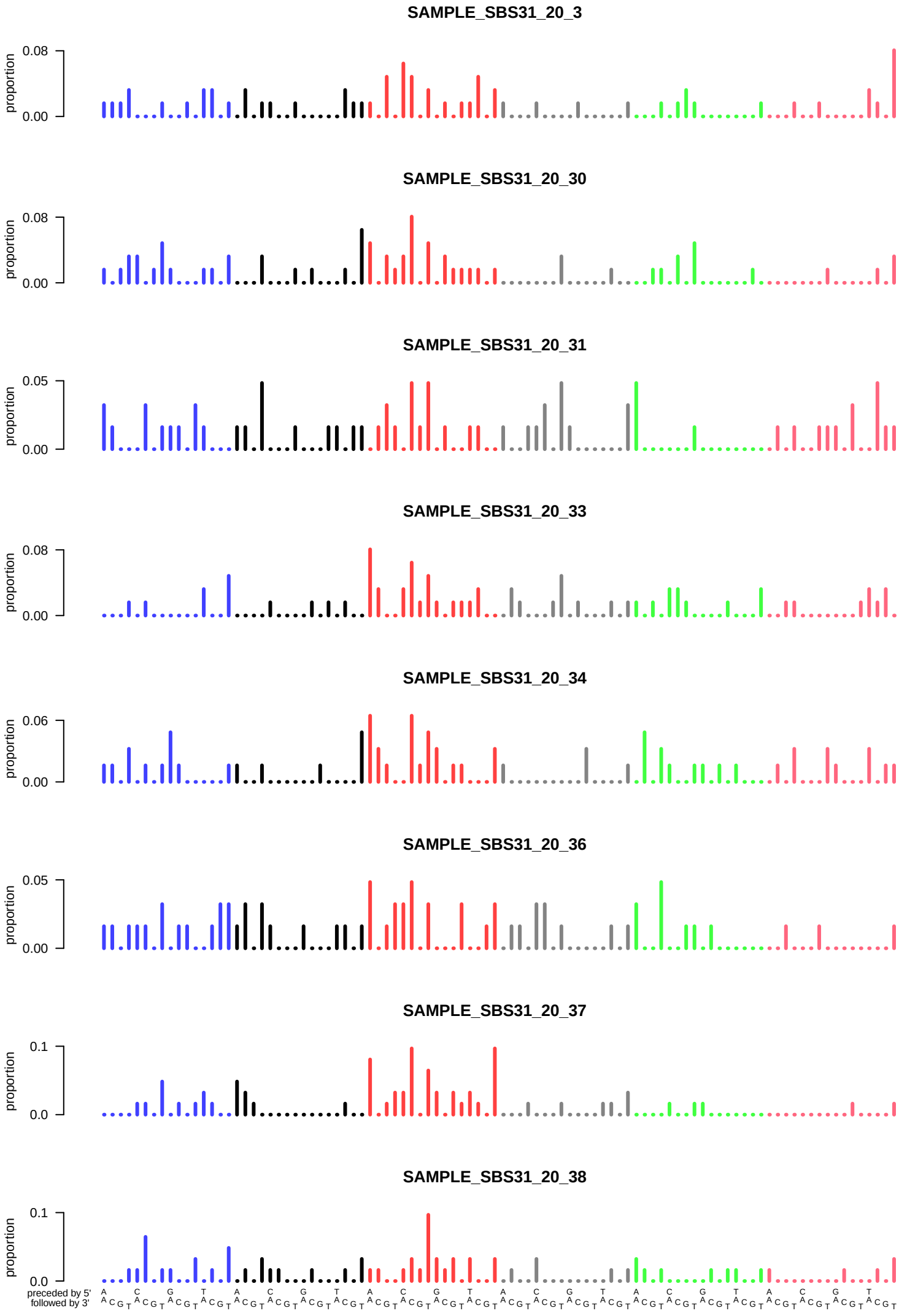

SAMPLE_SBS31_15_67
proportion
0.06
0.00
SAMPLE_SBS31_15_69
proportion
0.08
0.00
SAMPLE_SBS31_15_7
proportion
0.1
0.0
SAMPLE_SBS31_15_70
proportion
0.1
0.0
SAMPLE_SBS31_15_71
proportion
0.08
0.00
SAMPLE_SBS31_15_72
proportion
0.08
0.00
SAMPLE_SBS31_15_76
proportion
0.08
0.00
SAMPLE_SBS31_15_77
proportion
0.06
0.00
preceded by 5'
followed by 3'

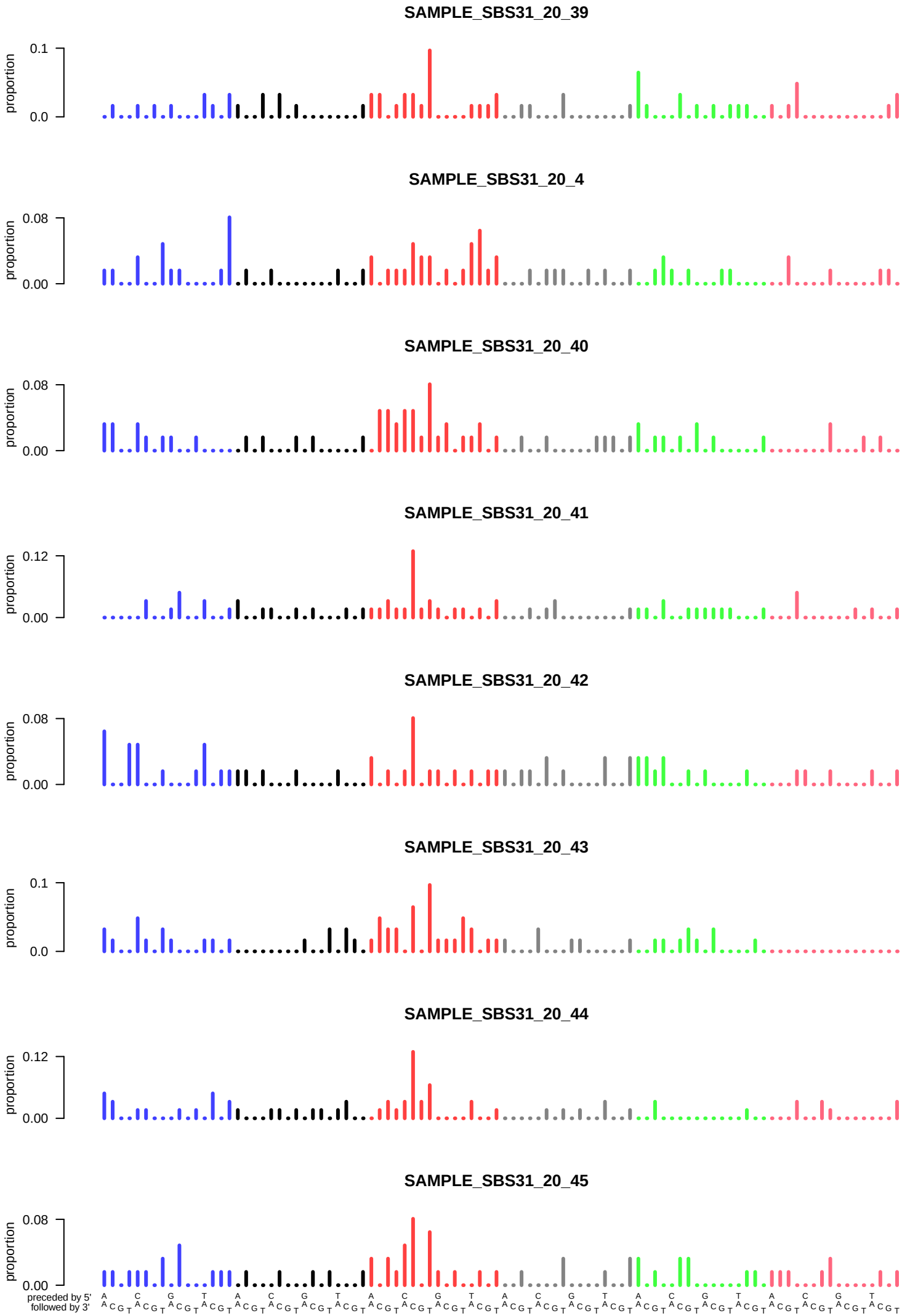

SAMPLE_SBS31_15_78
proportion
0.1
0.0
SAMPLE_SBS31_15_79
proportion
0.06
0.00
SAMPLE_SBS31_15_8
proportion
0.06
0.00
SAMPLE_SBS31_15_80
proportion
0.08
0.00
SAMPLE_SBS31_15_84
proportion
0.08
0.00
SAMPLE_SBS31_15_85
proportion
0.06
0.00
SAMPLE_SBS31_15_86
proportion
0.1
0.0
SAMPLE_SBS31_15_88
proportion
0.06
0.00
preceded by 5'
followed by 3'

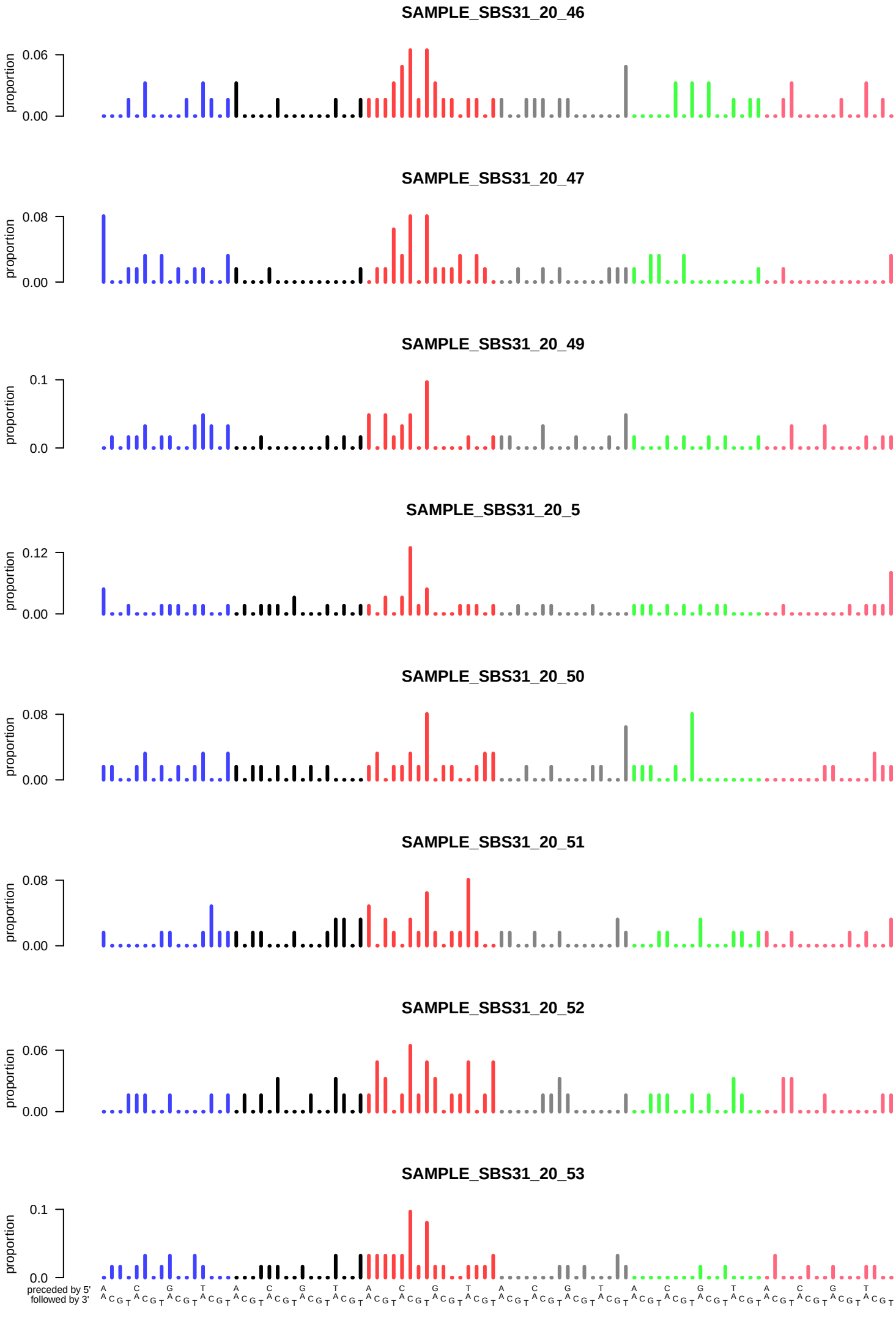

SAMPLE_SBS31_15_89
proportion
0.06
0.00
SAMPLE_SBS31_15_90
proportion
0.08
0.00
SAMPLE_SBS31_15_91
proportion
0.08
0.00
SAMPLE_SBS31_15_94
proportion
0.05
0.00
SAMPLE_SBS31_15_98
proportion
0.08
0.00
SAMPLE_SBS31_20_1
proportion
0.06
0.00
SAMPLE_SBS31_20_10
proportion
0.06
0.00
SAMPLE_SBS31_20_100
proportion
0.08
0.00
preceded by 5'
followed by 3'
A C G T

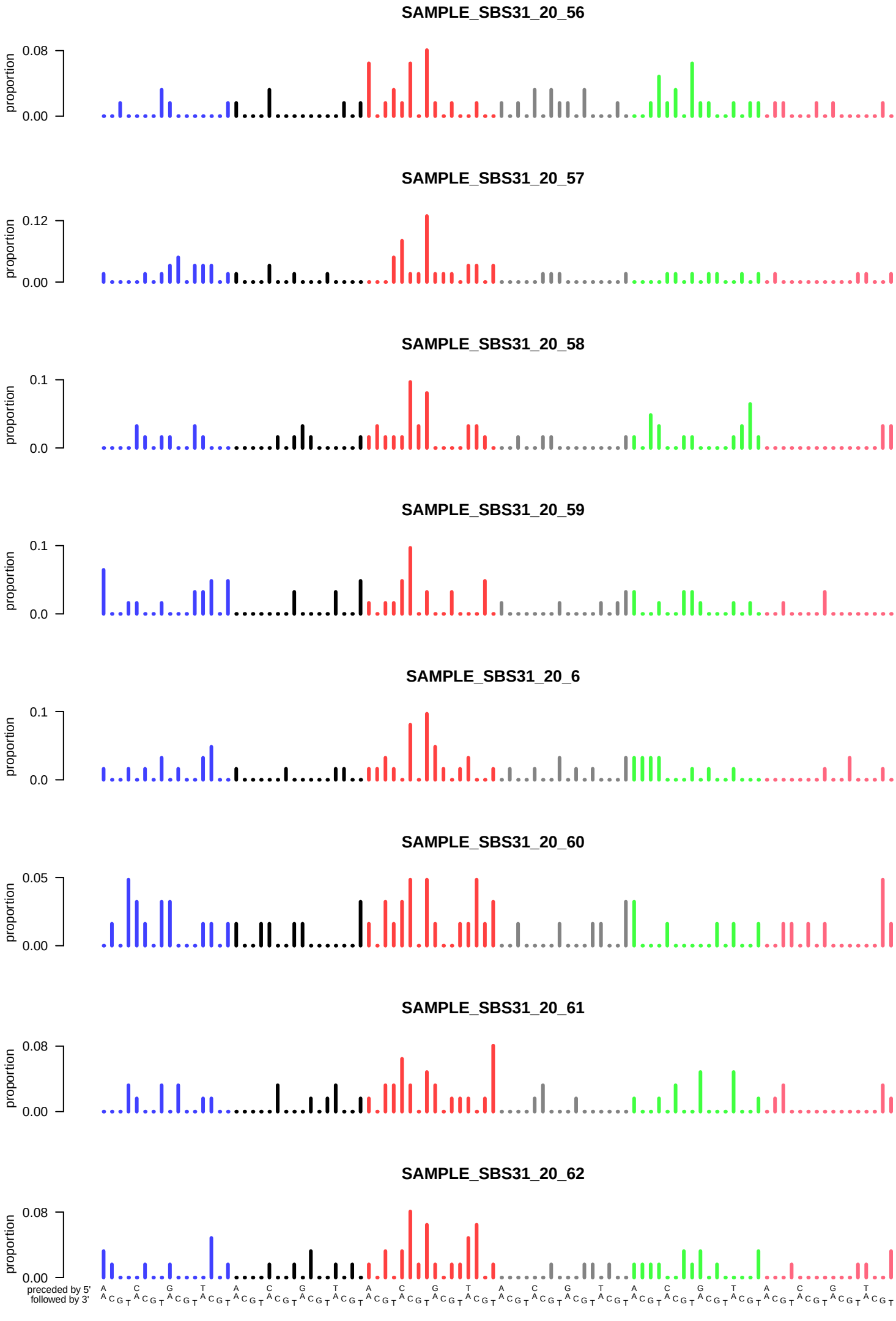

SAMPLE_SBS31_20_11
proportion
0.06
0.00
SAMPLE_SBS31_20_12
proportion
0.1
0.0
SAMPLE_SBS31_20_13
proportion
0.1
0.0
SAMPLE_SBS31_20_14
proportion
0.08
0.00
SAMPLE_SBS31_20_16
proportion
0.12
0.00
SAMPLE_SBS31_20_17
proportion
0.1
0.0
SAMPLE_SBS31_20_18
proportion
0.12
0.00
SAMPLE_SBS31_20_19
proportion
0.06
0.00
preceded by 5'
followed by 3'

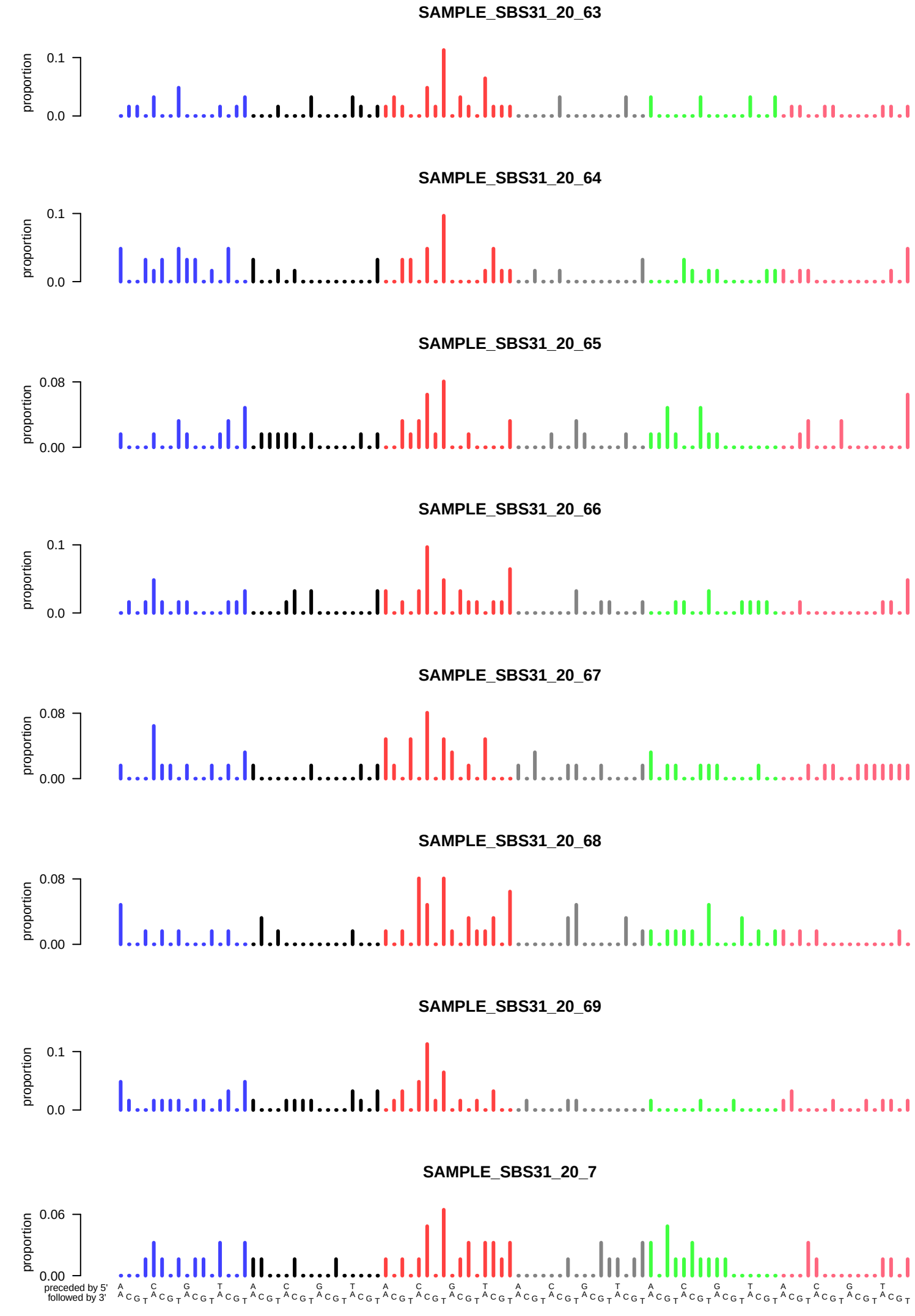

SAMPLE_SBS31_20_20
proportion
0.08
0.00
SAMPLE_SBS31_20_21
proportion
0.15
0.00
SAMPLE_SBS31_20_22
proportion
0.06
0.00
SAMPLE_SBS31_20_24
proportion
0.1
0.0
SAMPLE_SBS31_20_25
proportion
0.06
0.00
SAMPLE_SBS31_20_26
proportion
0.08
0.00
SAMPLE_SBS31_20_27
proportion
0.1
0.0
SAMPLE_SBS31_20_28
proportion
0.08
0.00
preceded by 5'
followed by 3'

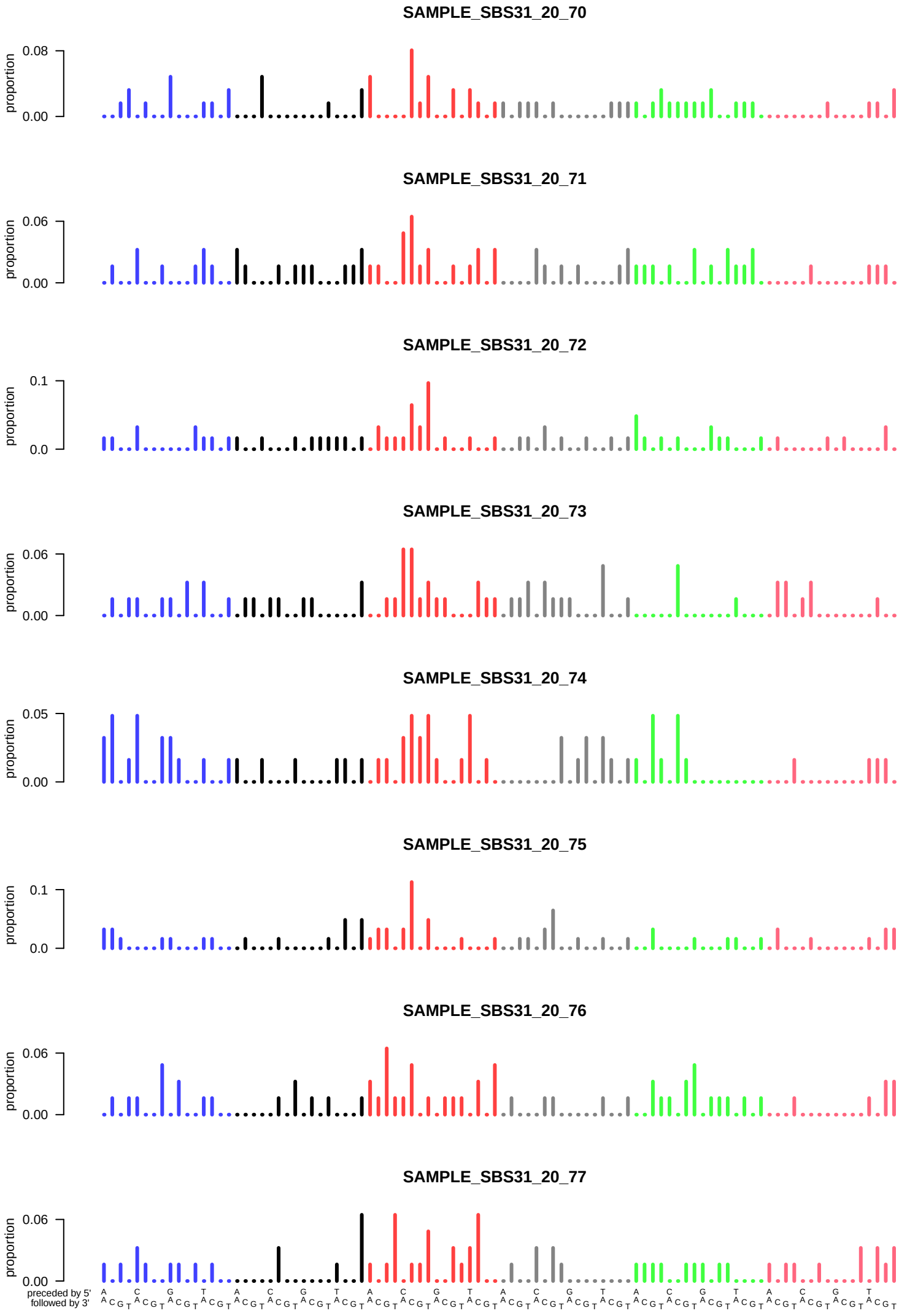

SAMPLE_SBS31_20_3
proportion
0.08
0.00
SAMPLE_SBS31_20_30
proportion
0.08
0.00
SAMPLE_SBS31_20_31
proportion
0.05
0.00
SAMPLE_SBS31_20_33
proportion
0.08
0.00
SAMPLE_SBS31_20_34
proportion
0.06
0.00
SAMPLE_SBS31_20_36
proportion
0.05
0.00
SAMPLE_SBS31_20_37
proportion
0.1
0.0
SAMPLE_SBS31_20_38
proportion
0.1
0.0
preceded by 5'
followed by 3'
A C G T

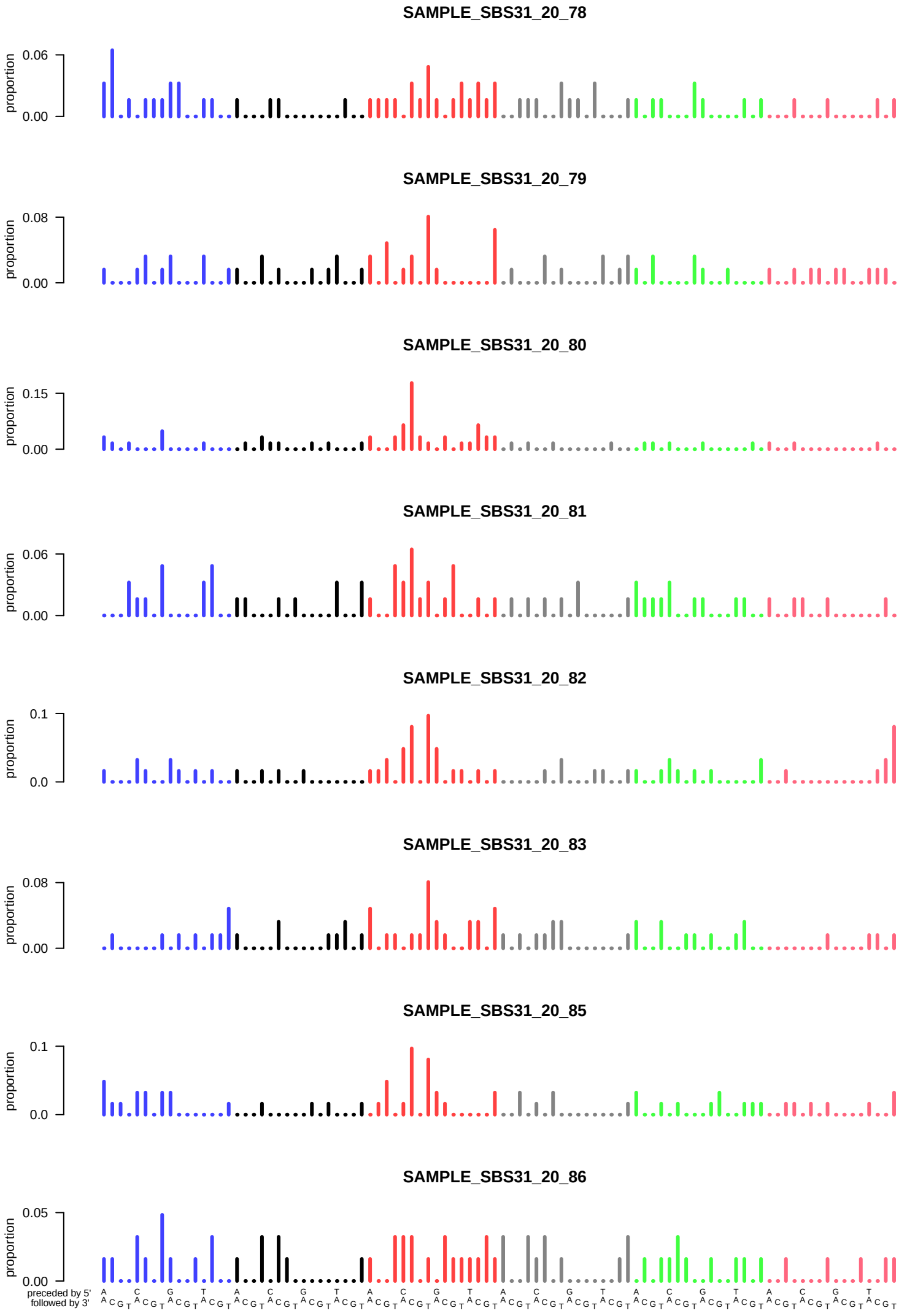

SAMPLE_SBS31_20_39
proportion
0.1
0.0
SAMPLE_SBS31_20_4
proportion
0.08
0.00
SAMPLE_SBS31_20_40
proportion
0.08
0.00
SAMPLE_SBS31_20_41
proportion
0.12
0.00
SAMPLE_SBS31_20_42
proportion
0.08
0.00
SAMPLE_SBS31_20_43
proportion
0.1
0.0
SAMPLE_SBS31_20_44
proportion
0.12
0.00
SAMPLE_SBS31_20_45
proportion
0.08
0.00
preceded by 5'
followed by 3'

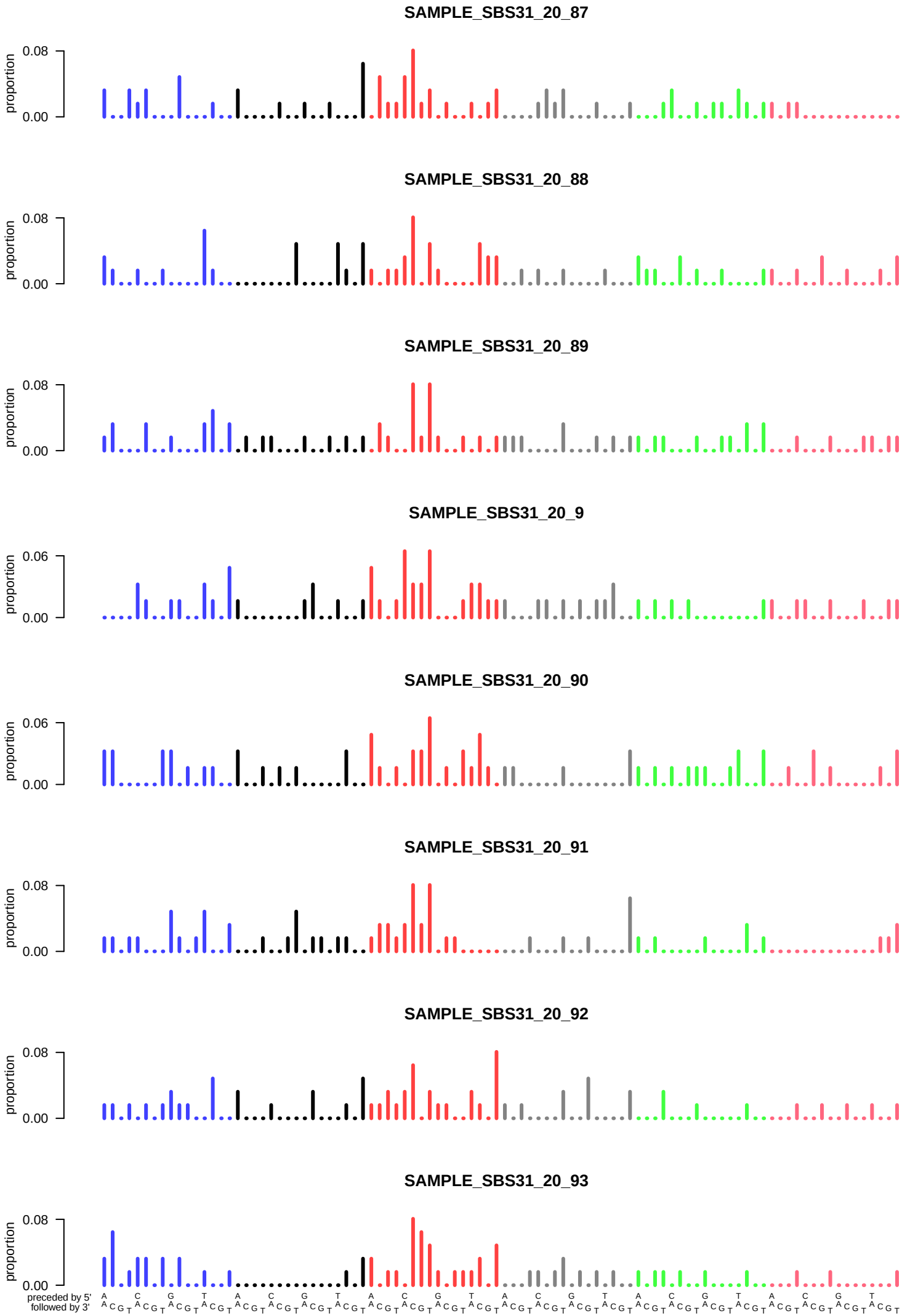

SAMPLE_SBS31_20_46
proportion
0.06
0.00
SAMPLE_SBS31_20_47
proportion
0.08
0.00
SAMPLE_SBS31_20_49
proportion
0.1
0.0
SAMPLE_SBS31_20_5
proportion
0.12
0.00
SAMPLE_SBS31_20_50
proportion
0.08
0.00
SAMPLE_SBS31_20_51
proportion
0.08
0.00
SAMPLE_SBS31_20_52
proportion
0.06
0.00
SAMPLE_SBS31_20_53
proportion
0.1
0.0
preceded by 5'
followed by 3'

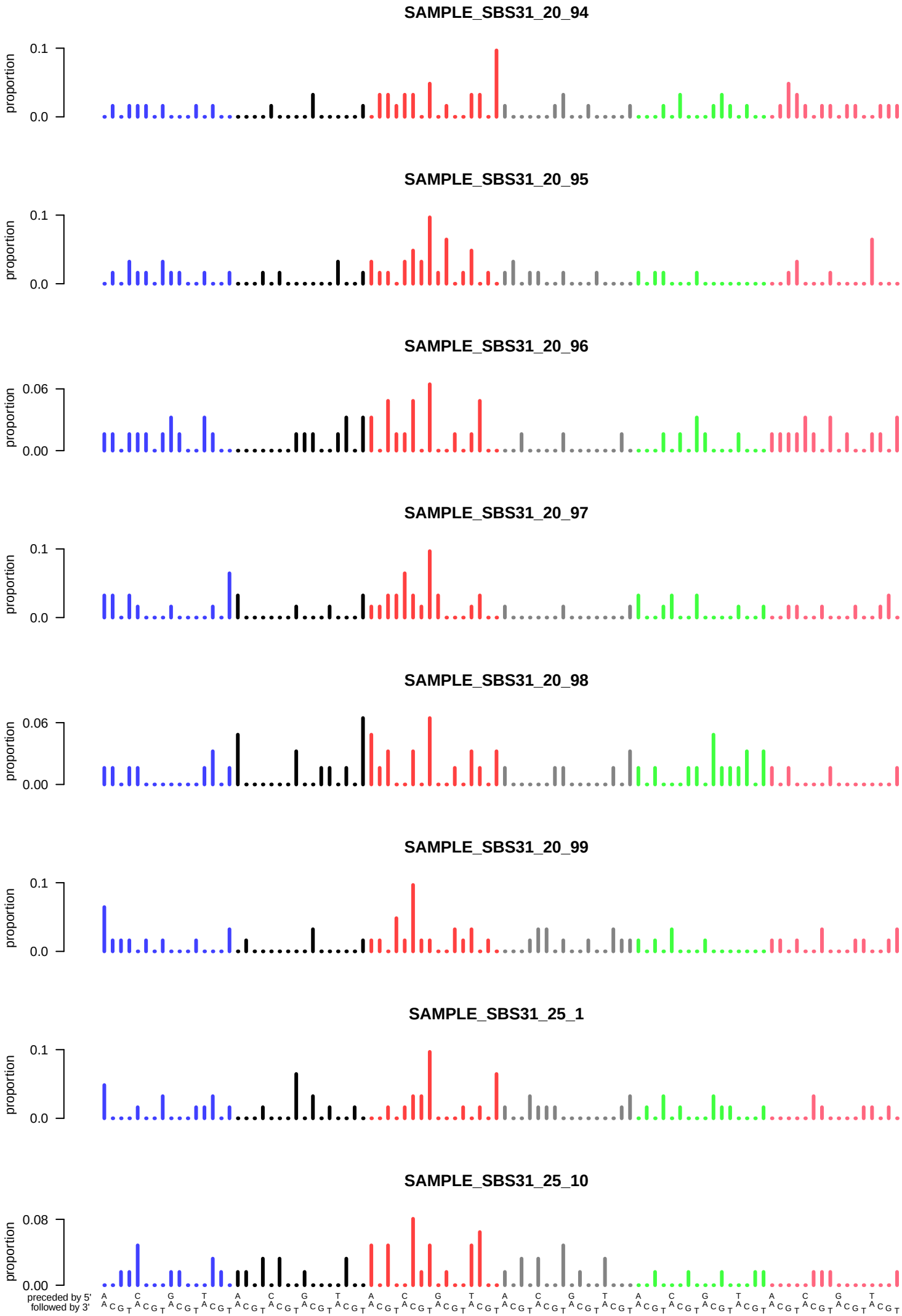

SAMPLE_SBS31_20_56
proportion
0.08
0.00
SAMPLE_SBS31_20_57
proportion
0.12
0.00
SAMPLE_SBS31_20_58
proportion
0.1
0.0
SAMPLE_SBS31_20_59
proportion
0.1
0.0
SAMPLE_SBS31_20_6
proportion
0.1
0.0
SAMPLE_SBS31_20_60
proportion
0.05
0.00
SAMPLE_SBS31_20_61
proportion
0.08
0.00
SAMPLE_SBS31_20_62
proportion
0.08
0.00
preceded by 5'
followed by 3'

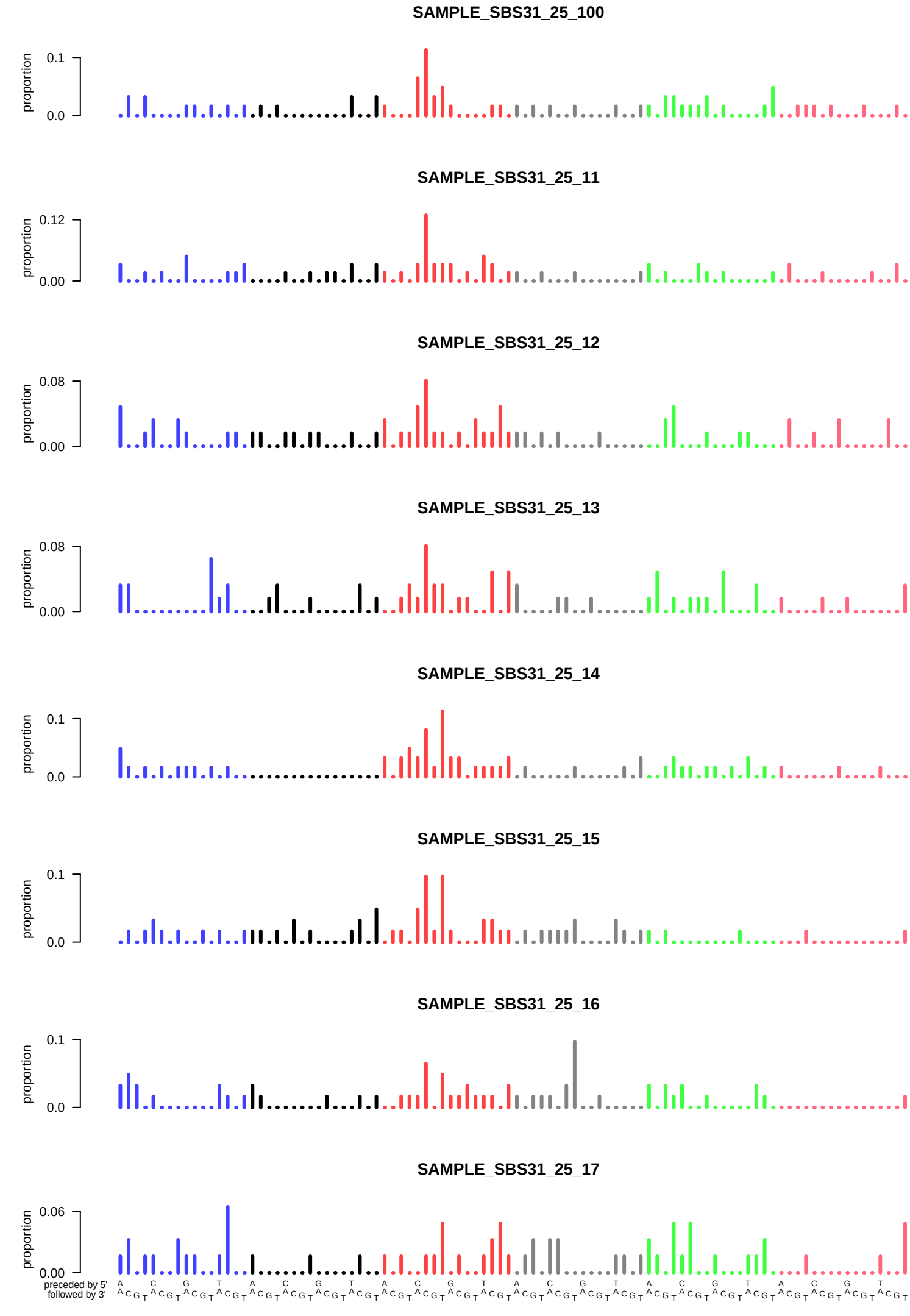

SAMPLE_SBS31_20_63
proportion
0.1
0.0
SAMPLE_SBS31_20_64
proportion
0.1
0.0
SAMPLE_SBS31_20_65
proportion
0.08
0.00
SAMPLE_SBS31_20_66
proportion
0.1
0.0
SAMPLE_SBS31_20_67
proportion
0.08
0.00
SAMPLE_SBS31_20_68
proportion
0.08
0.00
SAMPLE_SBS31_20_69
proportion
0.1
0.0
SAMPLE_SBS31_20_7
proportion
0.06
0.00
preceded by 5'
followed by 3'

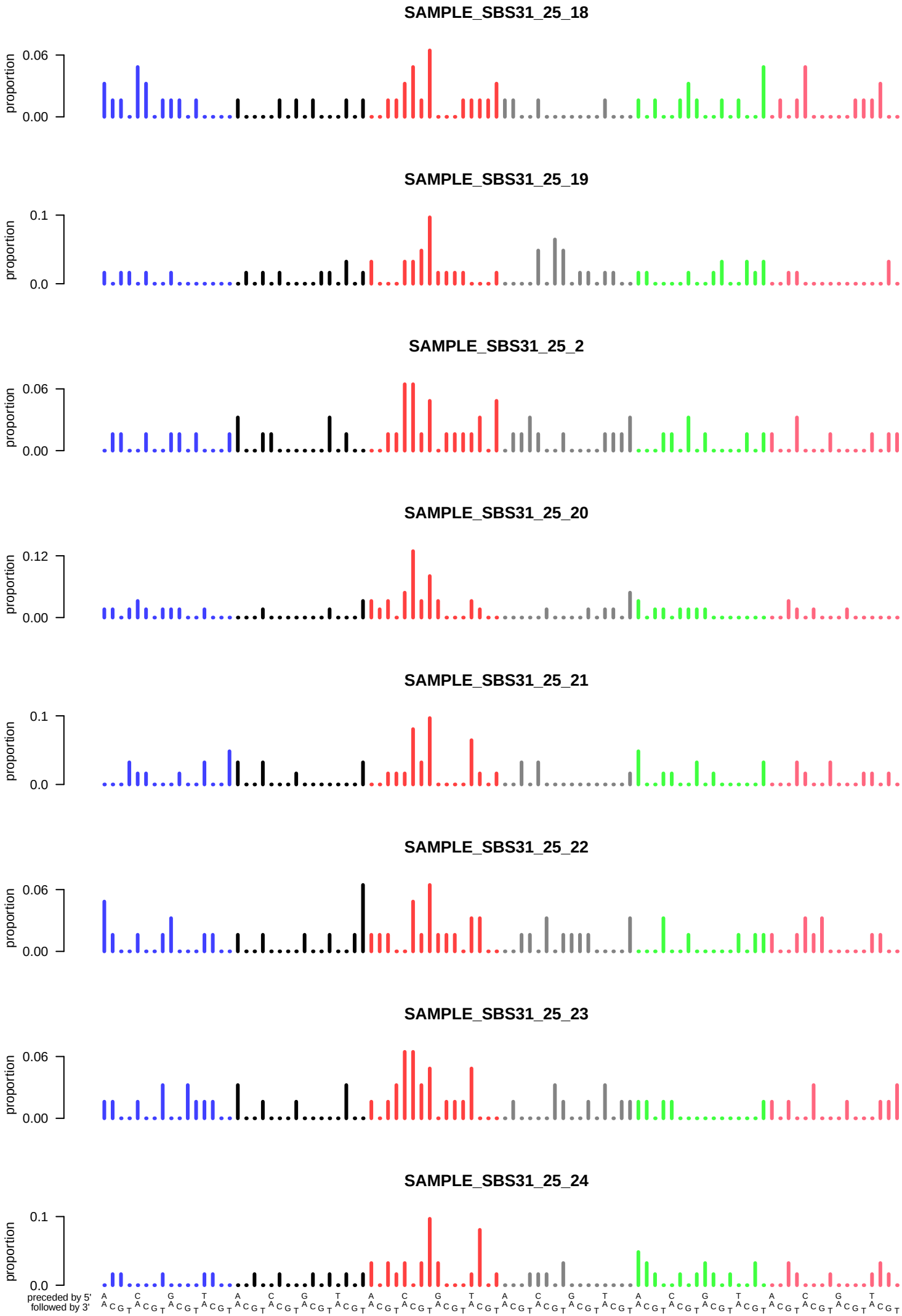

SAMPLE_SBS31_20_70
proportion
0.08
0.00
SAMPLE_SBS31_20_71
proportion
0.06
0.00
SAMPLE_SBS31_20_72
proportion
0.1
0.0
SAMPLE_SBS31_20_73
proportion
0.06
0.00
SAMPLE_SBS31_20_74
proportion
0.05
0.00
SAMPLE_SBS31_20_75
proportion
0.1
0.0
SAMPLE_SBS31_20_76
proportion
0.06
0.00
SAMPLE_SBS31_20_77
proportion
0.06
0.00
preceded by 5'
followed by 3'

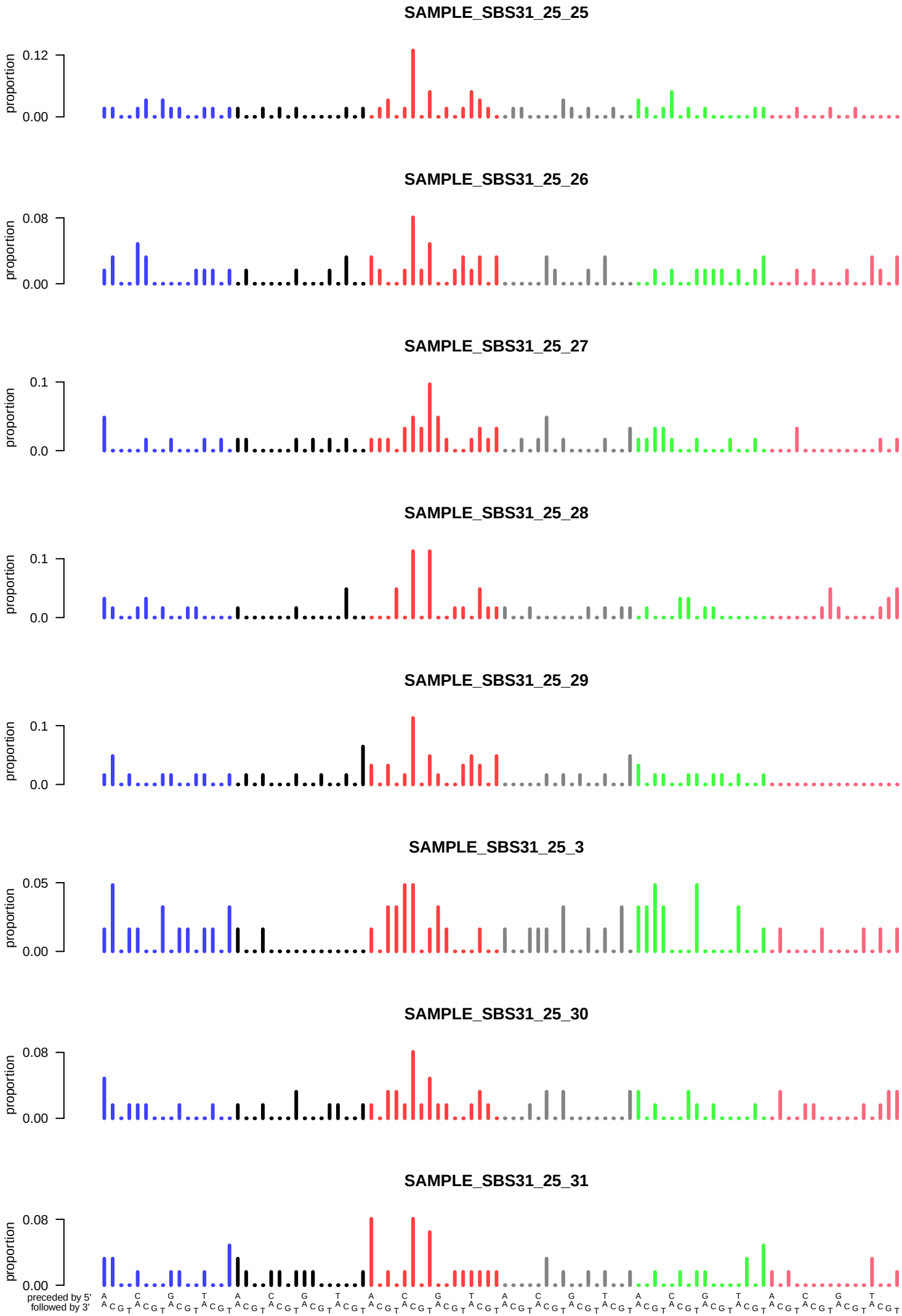

SAMPLE_SBS31_20_78
proportion
0.06
0.00
SAMPLE_SBS31_20_79
proportion
0.08
0.00
SAMPLE_SBS31_20_80
proportion
0.15
0.00
SAMPLE_SBS31_20_81
proportion
0.06
0.00
SAMPLE_SBS31_20_82
proportion
0.1
0.0
SAMPLE_SBS31_20_83
proportion
0.08
0.00
SAMPLE_SBS31_20_85
proportion
0.1
0.0
SAMPLE_SBS31_20_86
proportion
0.05
0.00
preceded by 5'
followed by 3'

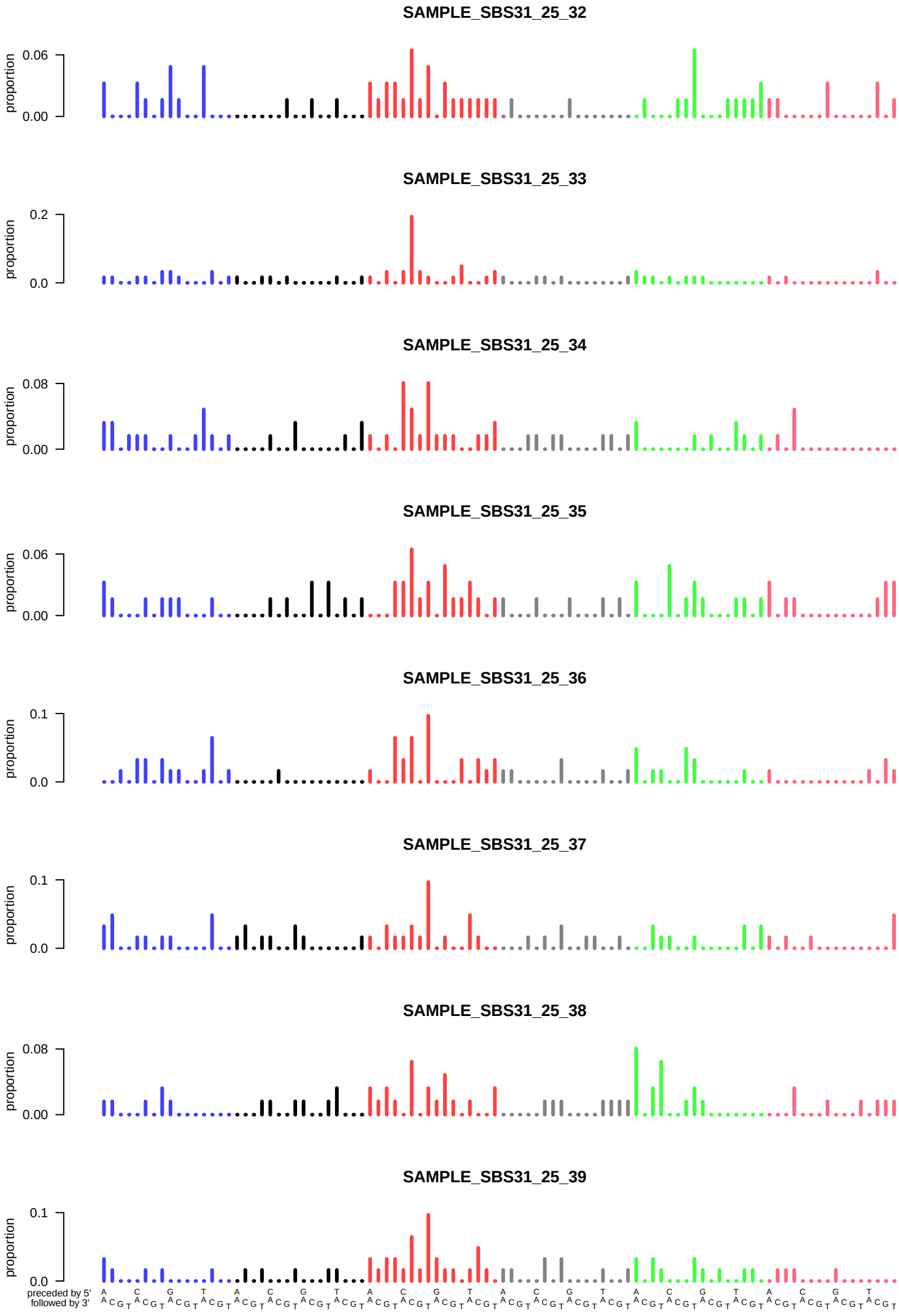

SAMPLE_SBS31_20_87
SAMPLE_SBS31_20_88
SAMPLE_SBS31_20_89
SAMPLE_SBS31_20_9
SAMPLE_SBS31_20_90
SAMPLE_SBS31_20_91
SAMPLE_SBS31_20_92
SAMPLE_SBS31_20_93
proportion
0.08
0.06
0.00
preceded by 5'
followed by 3'

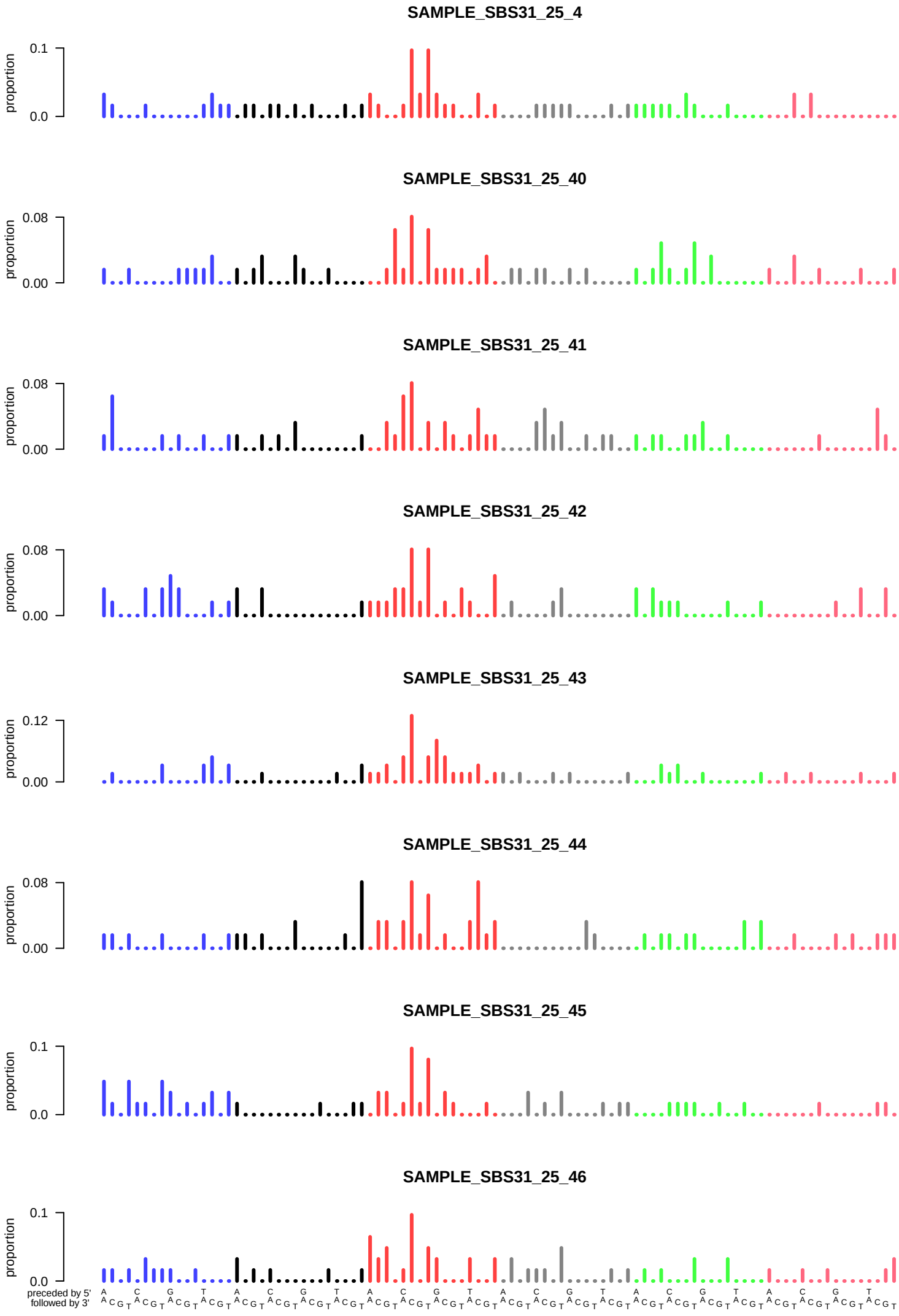

SAMPLE_SBS31_20_94
proportion
0.1
0.0
SAMPLE_SBS31_20_95
proportion
0.1
0.0
SAMPLE_SBS31_20_96
proportion
0.06
0.00
SAMPLE_SBS31_20_97
proportion
0.1
0.0
SAMPLE_SBS31_20_98
proportion
0.06
0.00
SAMPLE_SBS31_20_99
proportion
0.1
0.0
SAMPLE_SBS31_25_1
proportion
0.1
0.0
SAMPLE_SBS31_25_10
proportion
0.08
0.00
preceded by 5'
followed by 3'

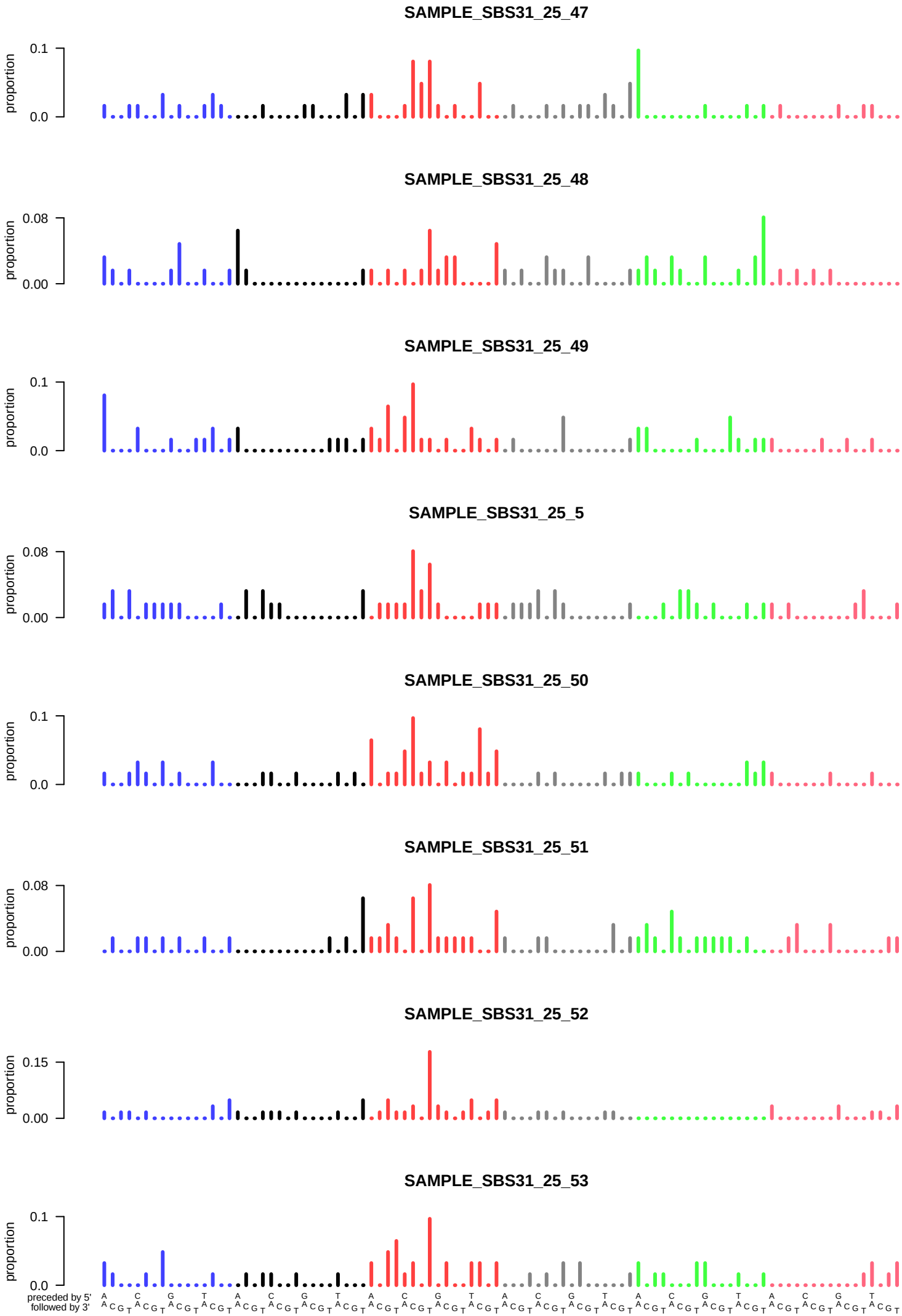

SAMPLE_SBS31_25_100
proportion
0.1
0.0
SAMPLE_SBS31_25_11
proportion
0.12
0.00
SAMPLE_SBS31_25_12
proportion
0.08
0.00
SAMPLE_SBS31_25_13
proportion
0.08
0.00
SAMPLE_SBS31_25_14
proportion
0.1
0.0
SAMPLE_SBS31_25_15
proportion
0.1
0.0
SAMPLE_SBS31_25_16
proportion
0.1
0.0
SAMPLE_SBS31_25_17
proportion
0.06
0.00
preceded by 5'
followed by 3'

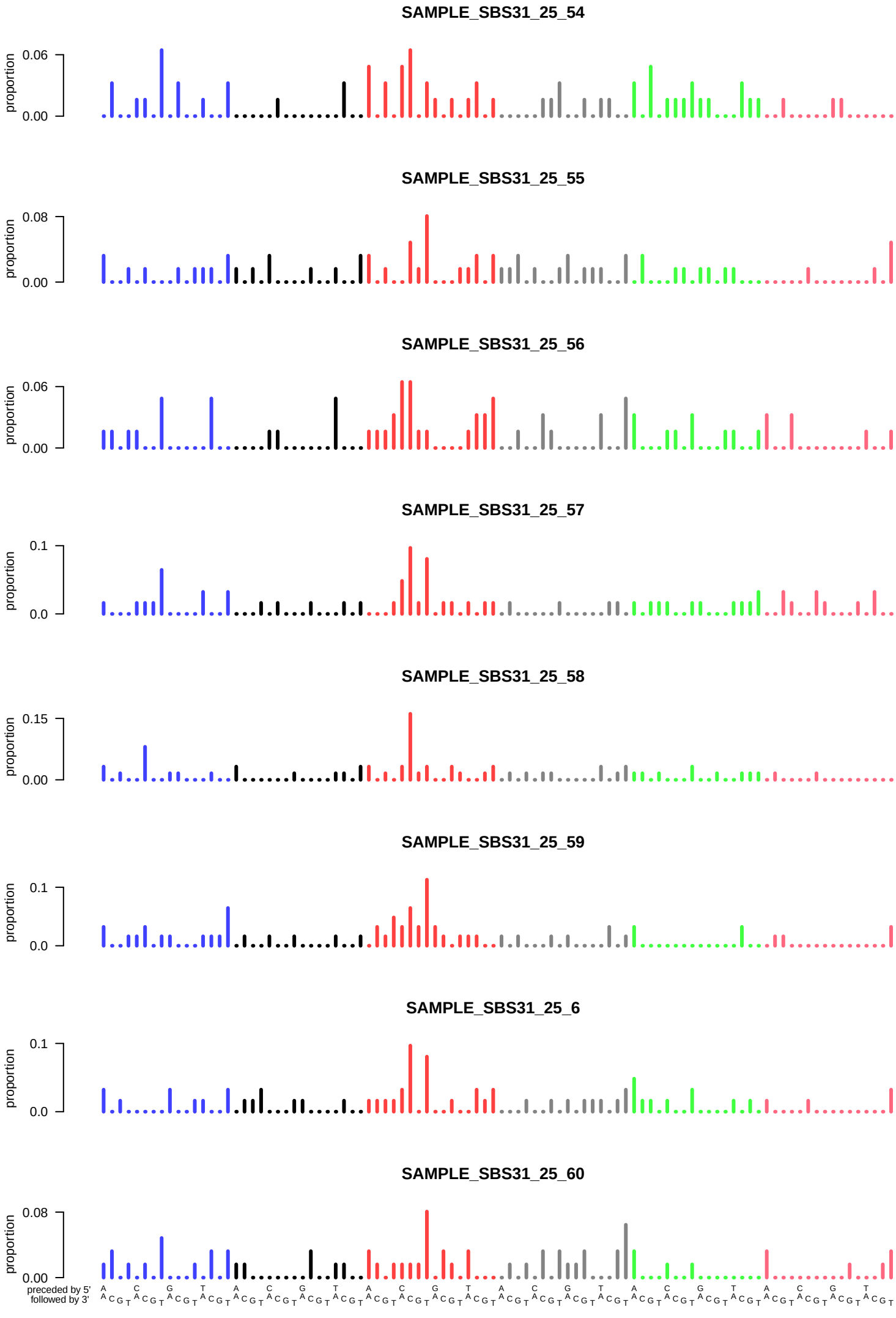

SAMPLE_SBS31_25_18
proportion
0.06
0.00
SAMPLE_SBS31_25_19
proportion
0.1
0.0
SAMPLE_SBS31_25_2
proportion
0.06
0.00
SAMPLE_SBS31_25_20
proportion
0.12
0.00
SAMPLE_SBS31_25_21
proportion
0.1
0.0
SAMPLE_SBS31_25_22
proportion
0.06
0.00
SAMPLE_SBS31_25_23
proportion
0.06
0.00
SAMPLE_SBS31_25_24
proportion
0.1
0.0
preceded by 5'
followed by 3'

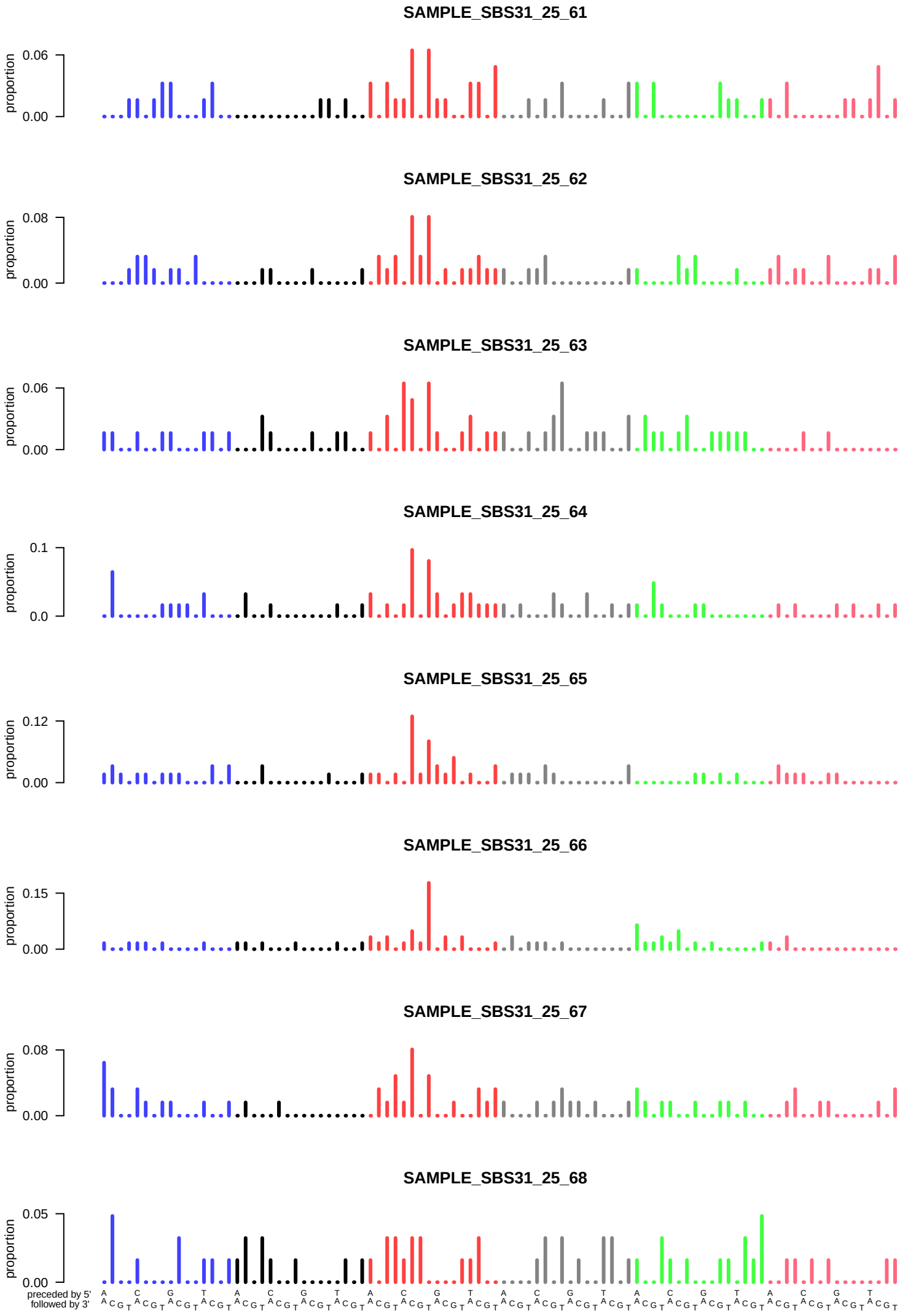

SAMPLE_SBS31_25_25
proportion
0.12
0.00
SAMPLE_SBS31_25_26
proportion
0.08
0.00
SAMPLE_SBS31_25_27
proportion
0.1
0.0
SAMPLE_SBS31_25_28
proportion
0.1
0.0
SAMPLE_SBS31_25_29
proportion
0.1
0.0
SAMPLE_SBS31_25_3
proportion
0.05
0.00
SAMPLE_SBS31_25_30
proportion
0.08
0.00
SAMPLE_SBS31_25_31
proportion
0.08
0.00
preceded by 5'
followed by 3'

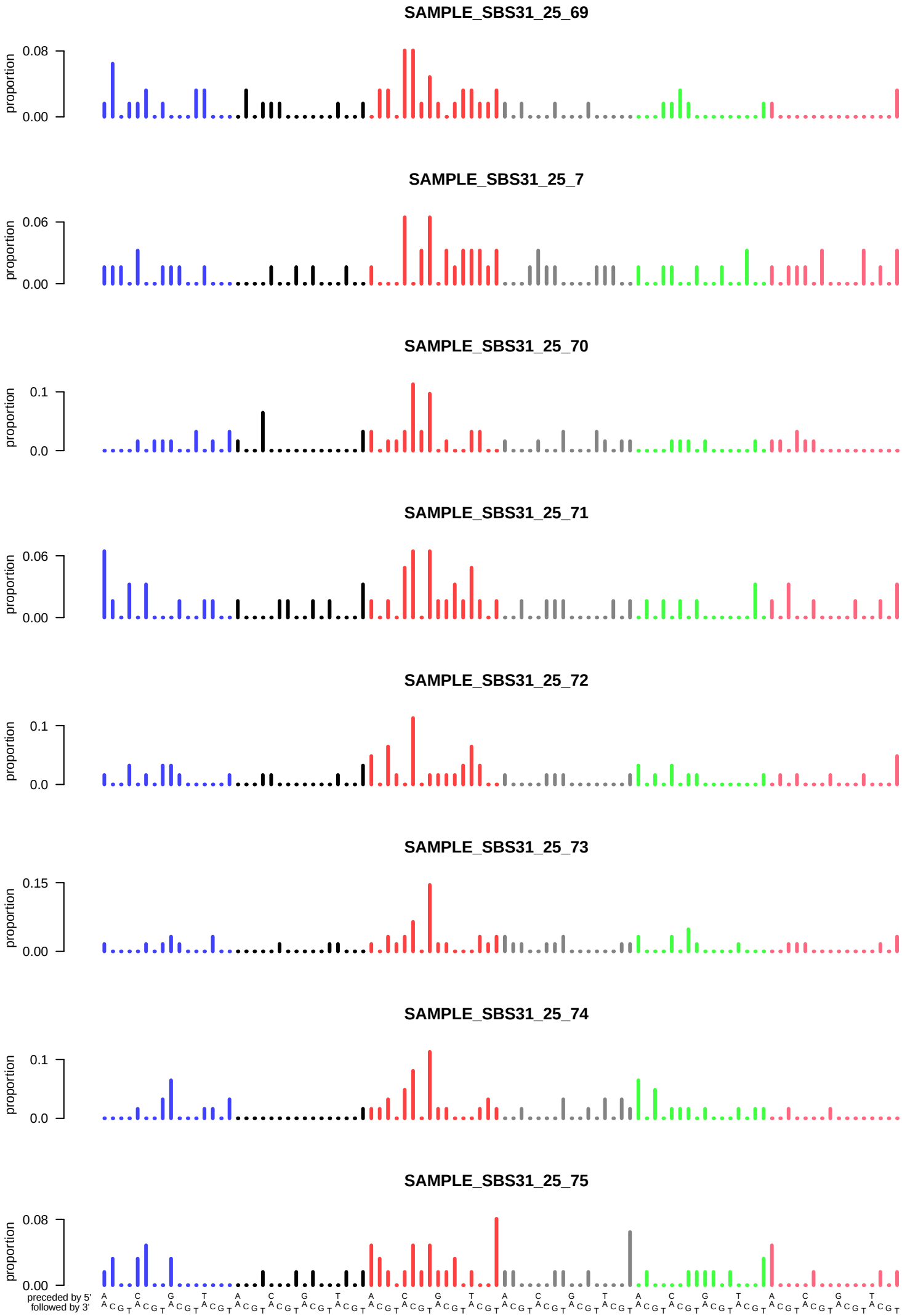

SAMPLE_SBS31_25_32
proportion
0.06
0.00
SAMPLE_SBS31_25_33
proportion
0.2
0.0
SAMPLE_SBS31_25_34
proportion
0.08
0.00
SAMPLE_SBS31_25_35
proportion
0.06
0.00
SAMPLE_SBS31_25_36
proportion
0.1
0.0
SAMPLE_SBS31_25_37
proportion
0.1
0.0
SAMPLE_SBS31_25_38
proportion
0.08
0.00
SAMPLE_SBS31_25_39
proportion
0.1
0.0
preceded by 5'
followed by 3'

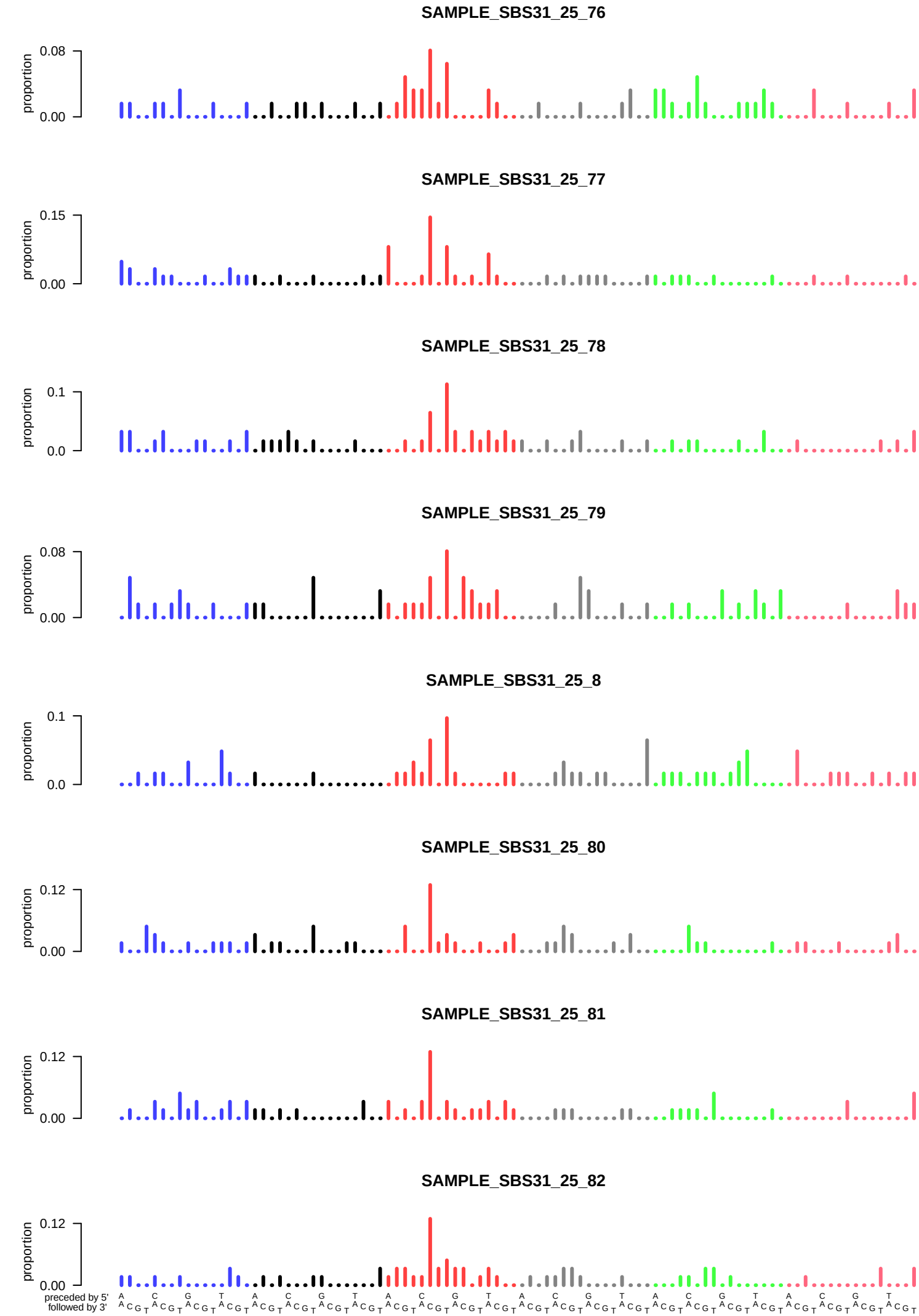

SAMPLE_SBS31_25_4
proportion
0.1
0.0
SAMPLE_SBS31_25_40
proportion
0.08
0.00
SAMPLE_SBS31_25_41
proportion
0.08
0.00
SAMPLE_SBS31_25_42
proportion
0.08
0.00
SAMPLE_SBS31_25_43
proportion
0.12
0.00
SAMPLE_SBS31_25_44
proportion
0.08
0.00
SAMPLE_SBS31_25_45
proportion
0.1
0.0
SAMPLE_SBS31_25_46
proportion
0.1
0.0
preceded by 5'
followed by 3'

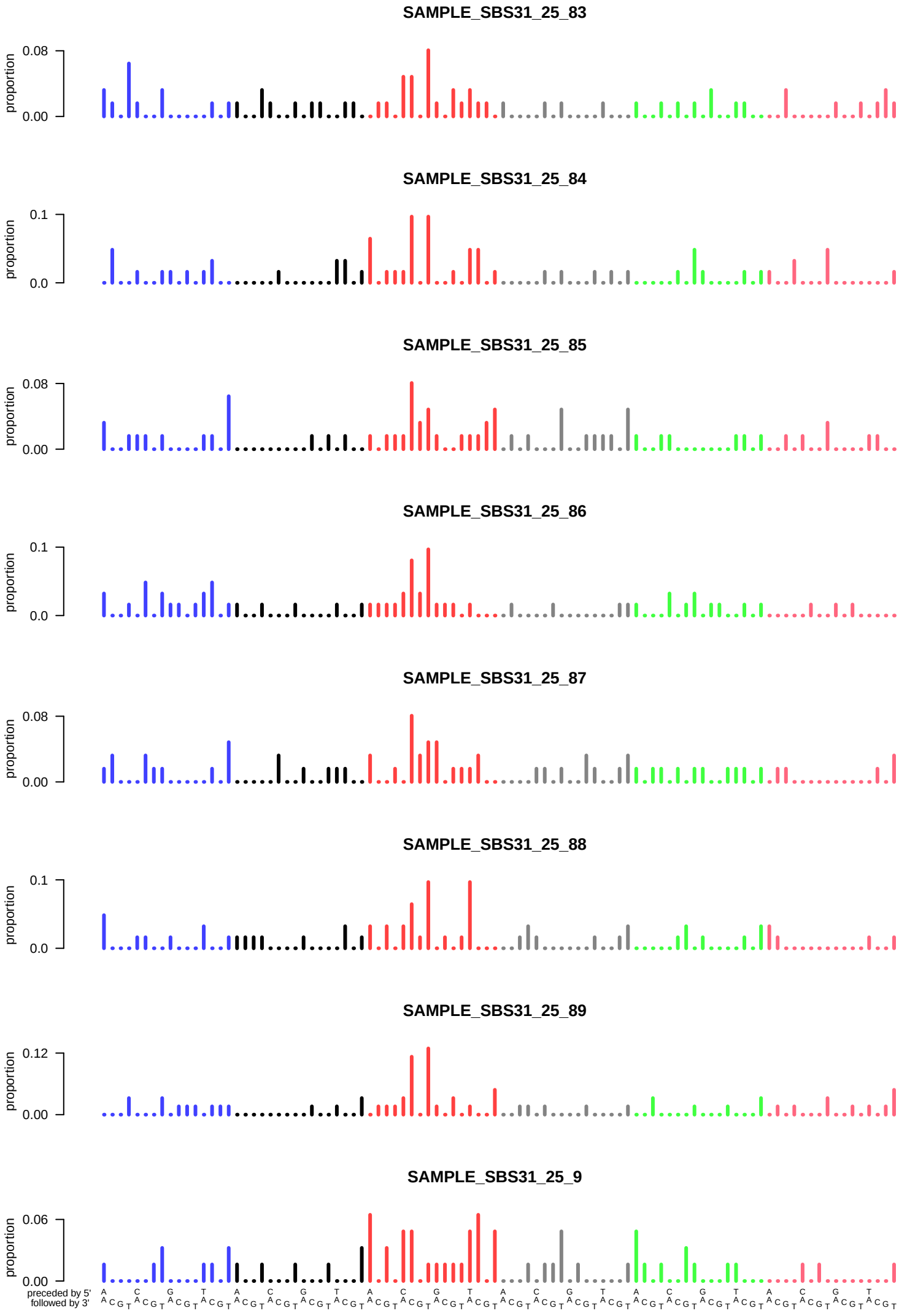

SAMPLE_SBS31_25_47
proportion
0.1
0.0
SAMPLE_SBS31_25_48
proportion
0.08
0.00
SAMPLE_SBS31_25_49
proportion
0.1
0.0
SAMPLE_SBS31_25_5
proportion
0.08
0.00
SAMPLE_SBS31_25_50
proportion
0.1
0.0
SAMPLE_SBS31_25_51
proportion
0.08
0.00
SAMPLE_SBS31_25_52
proportion
0.15
0.00
SAMPLE_SBS31_25_53
proportion
0.1
0.0
preceded by 5'
followed by 3'

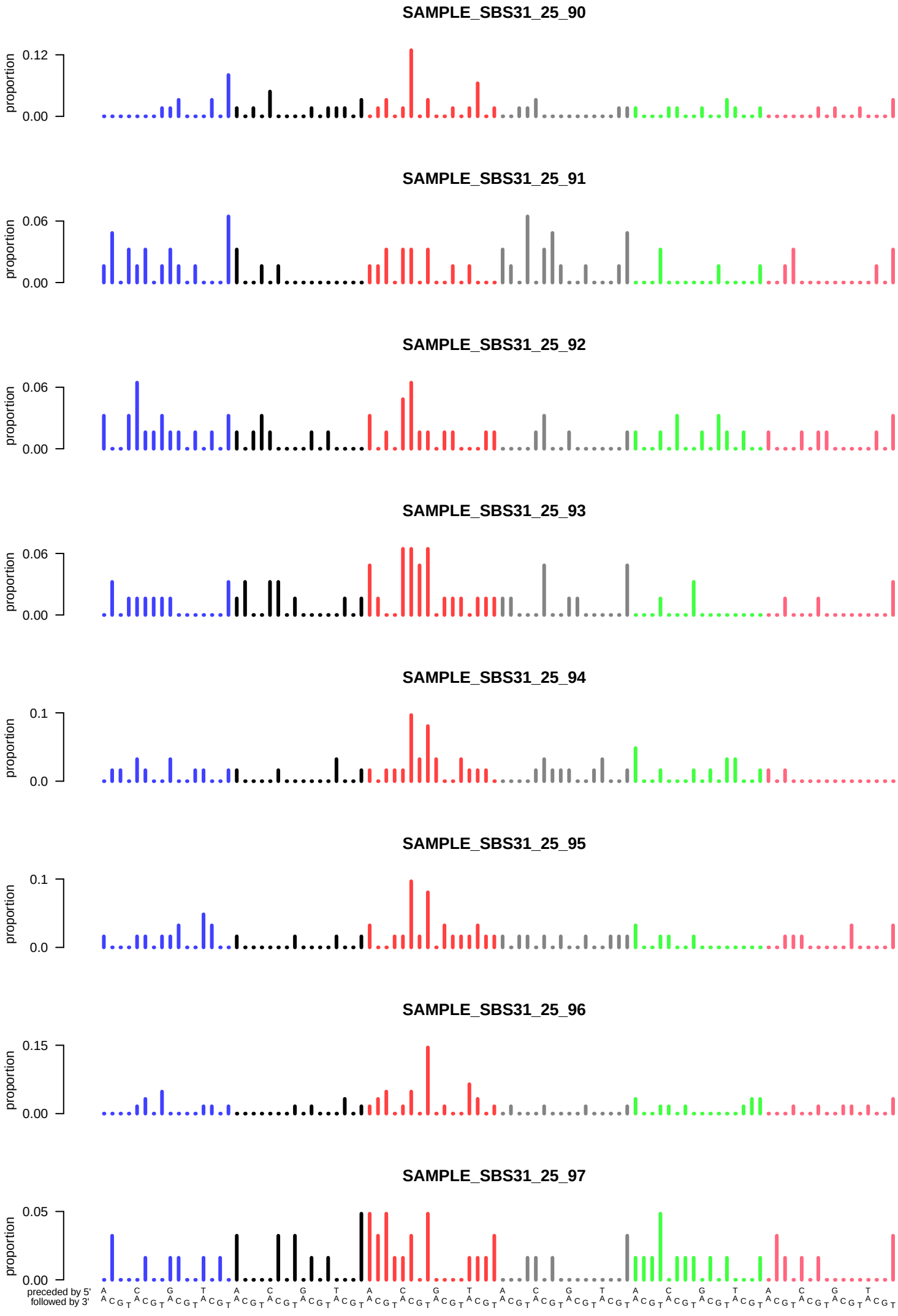

SAMPLE_SBS31_25_54
proportion
0.06
0.00
SAMPLE_SBS31_25_55
proportion
0.08
0.00
SAMPLE_SBS31_25_56
proportion
0.06
0.00
SAMPLE_SBS31_25_57
proportion
0.1
0.0
SAMPLE_SBS31_25_58
proportion
0.15
0.00
SAMPLE_SBS31_25_59
proportion
0.1
0.0
SAMPLE_SBS31_25_6
proportion
0.1
0.0
SAMPLE_SBS31_25_60
proportion
0.08
0.00
preceded by 5'
followed by 3'

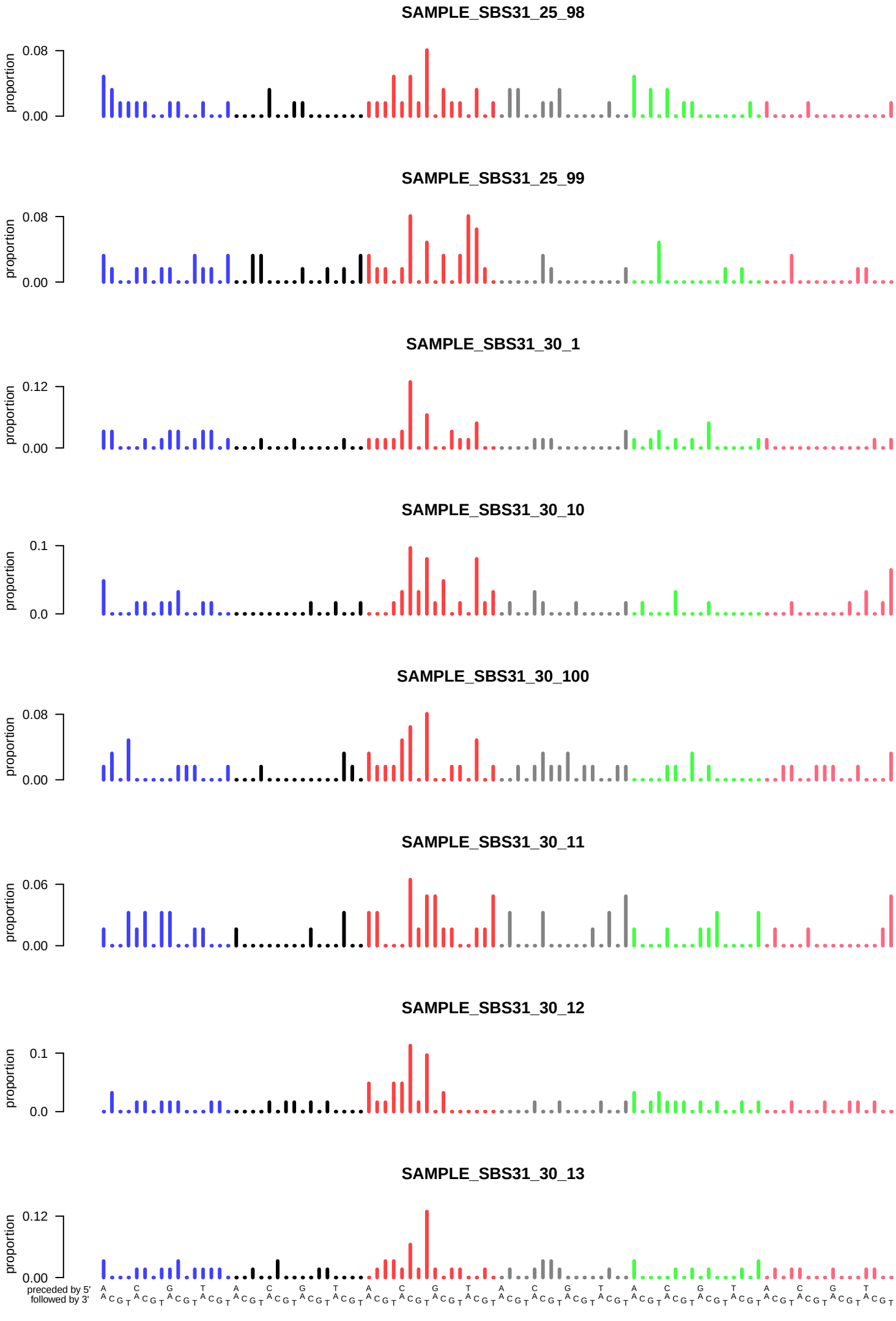

SAMPLE_SBS31_25_61
proportion
0.06
0.00
SAMPLE_SBS31_25_62
proportion
0.08
0.00
SAMPLE_SBS31_25_63
proportion
0.06
0.00
SAMPLE_SBS31_25_64
proportion
0.1
0.0
SAMPLE_SBS31_25_65
proportion
0.12
0.00
SAMPLE_SBS31_25_66
proportion
0.15
0.00
SAMPLE_SBS31_25_67
proportion
0.08
0.00
SAMPLE_SBS31_25_68
proportion
0.05
0.00
preceded by 5'
followed by 3'

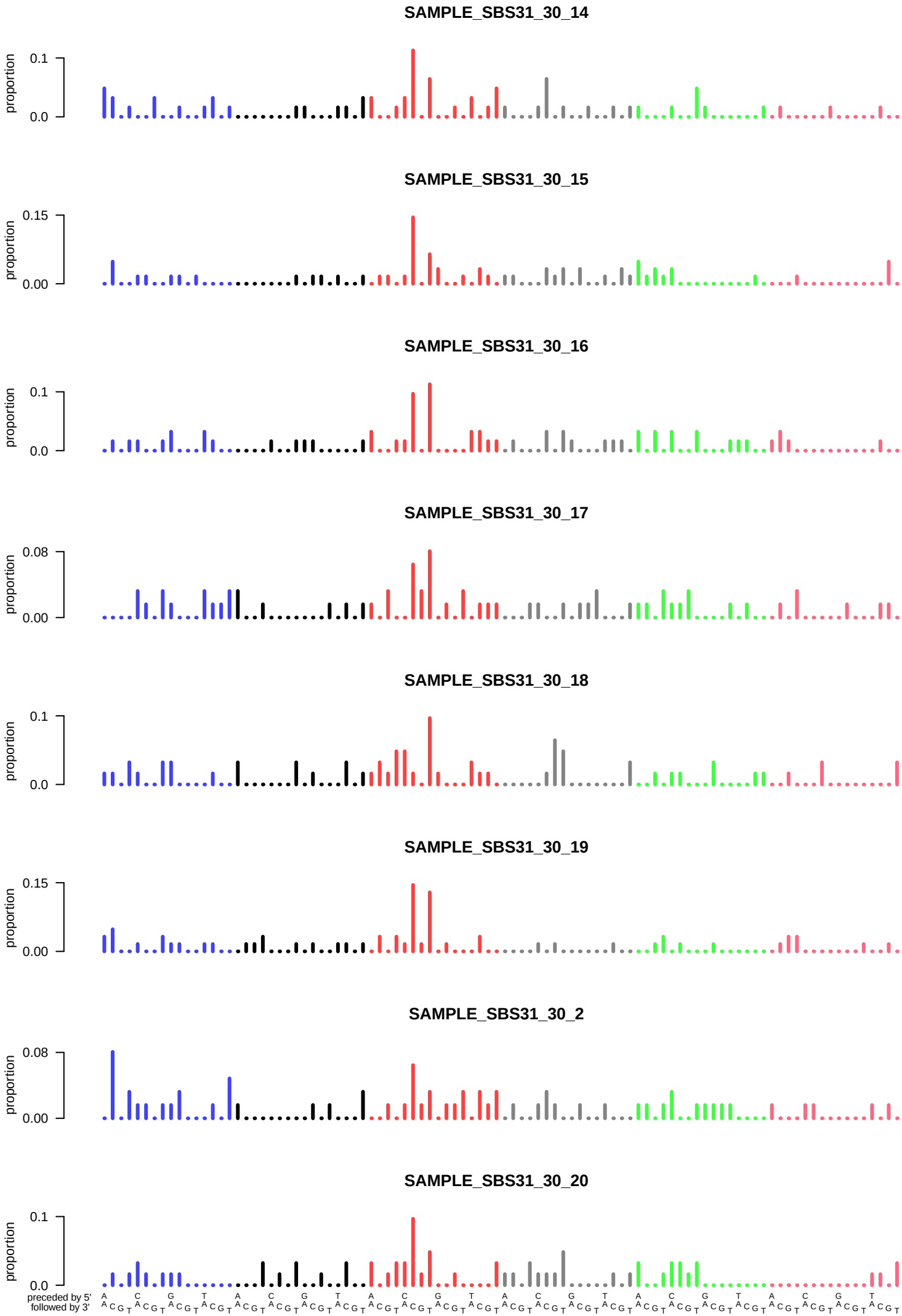

SAMPLE_SBS31_25_69
proportion
0.08
0.00
SAMPLE_SBS31_25_7
proportion
0.06
0.00
SAMPLE_SBS31_25_70
proportion
0.1
0.0
SAMPLE_SBS31_25_71
proportion
0.06
0.00
SAMPLE_SBS31_25_72
proportion
0.1
0.0
SAMPLE_SBS31_25_73
proportion
0.15
0.00
SAMPLE_SBS31_25_74
proportion
0.1
0.0
SAMPLE_SBS31_25_75
proportion
0.08
0.00
preceded by 5'
followed by 3'

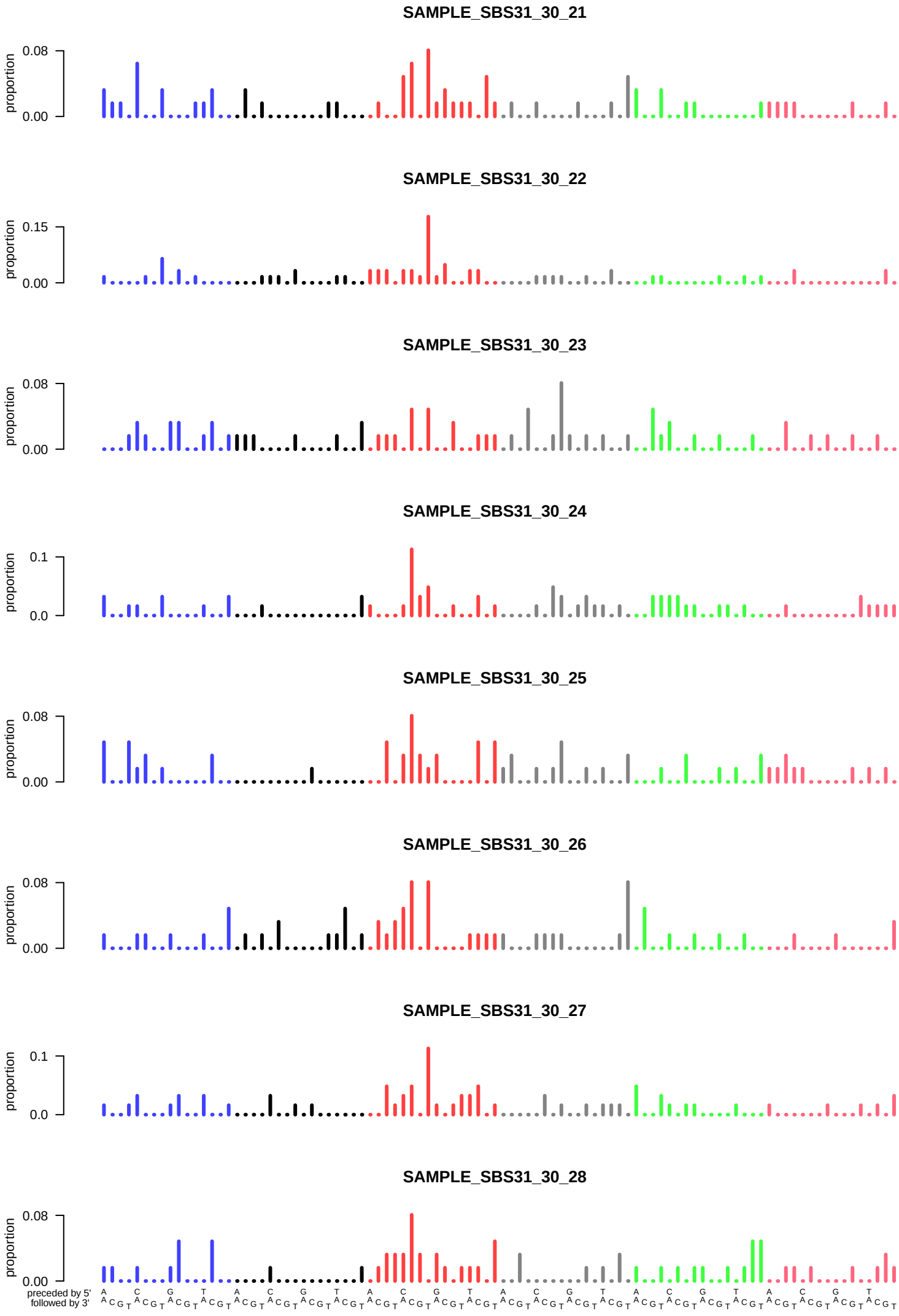

SAMPLE_SBS31_25_76
proportion
0.08
0.00
SAMPLE_SBS31_25_77
proportion
0.15
0.00
SAMPLE_SBS31_25_78
proportion
0.1
0.0
SAMPLE_SBS31_25_79
proportion
0.08
0.00
SAMPLE_SBS31_25_8
proportion
0.1
0.0
SAMPLE_SBS31_25_80
proportion
0.12
0.00
SAMPLE_SBS31_25_81
proportion
0.12
0.00
SAMPLE_SBS31_25_82
proportion
0.12
0.00
preceded by 5'
followed by 3'

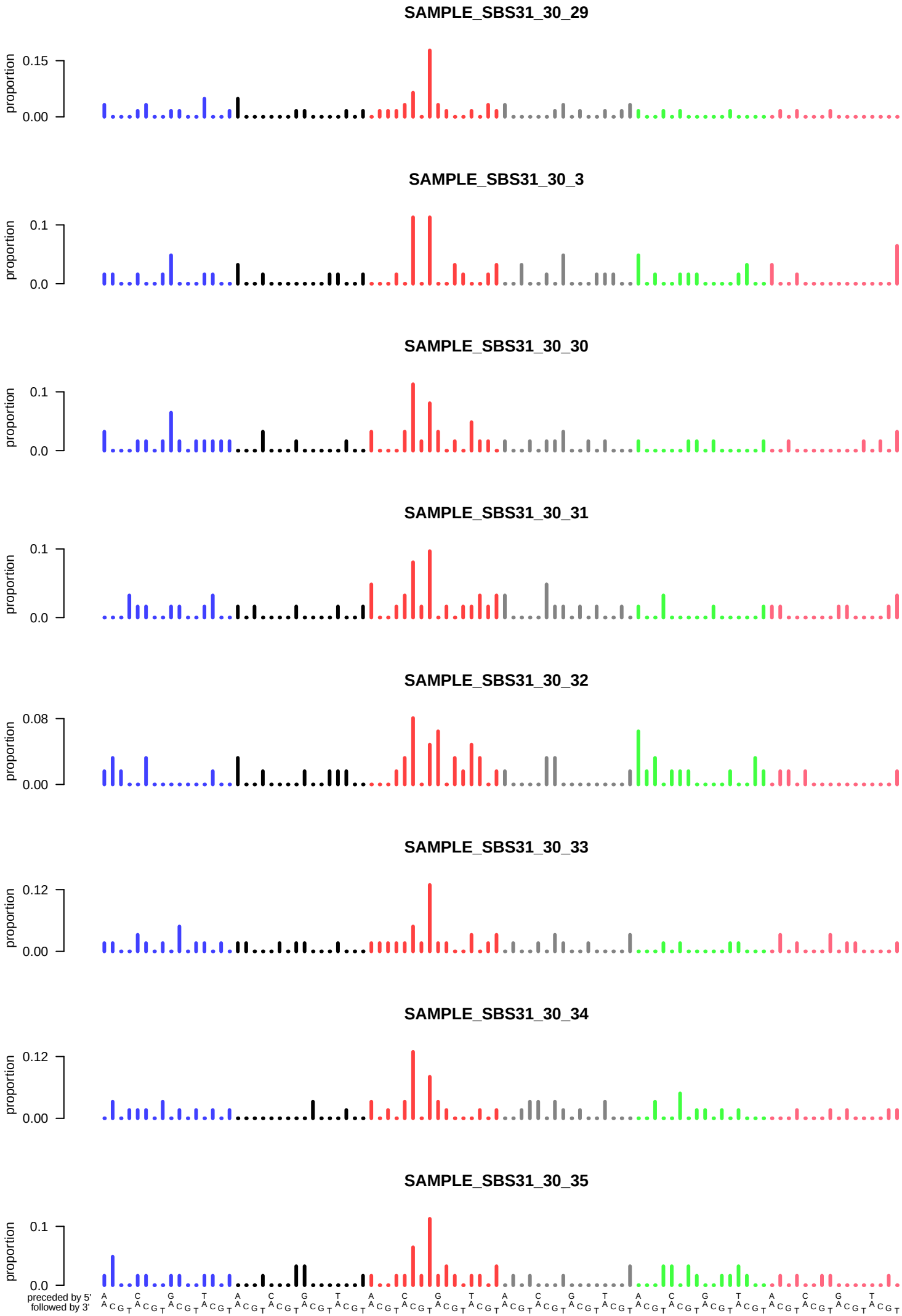

SAMPLE_SBS31_25_83
proportion
0.08
0.00
SAMPLE_SBS31_25_84
proportion
0.1
0.0
SAMPLE_SBS31_25_85
proportion
0.08
0.00
SAMPLE_SBS31_25_86
proportion
0.1
0.0
SAMPLE_SBS31_25_87
proportion
0.08
0.00
SAMPLE_SBS31_25_88
proportion
0.1
0.0
SAMPLE_SBS31_25_89
proportion
0.12
0.00
SAMPLE_SBS31_25_9
proportion
0.06
0.00
preceded by 5'
followed by 3'

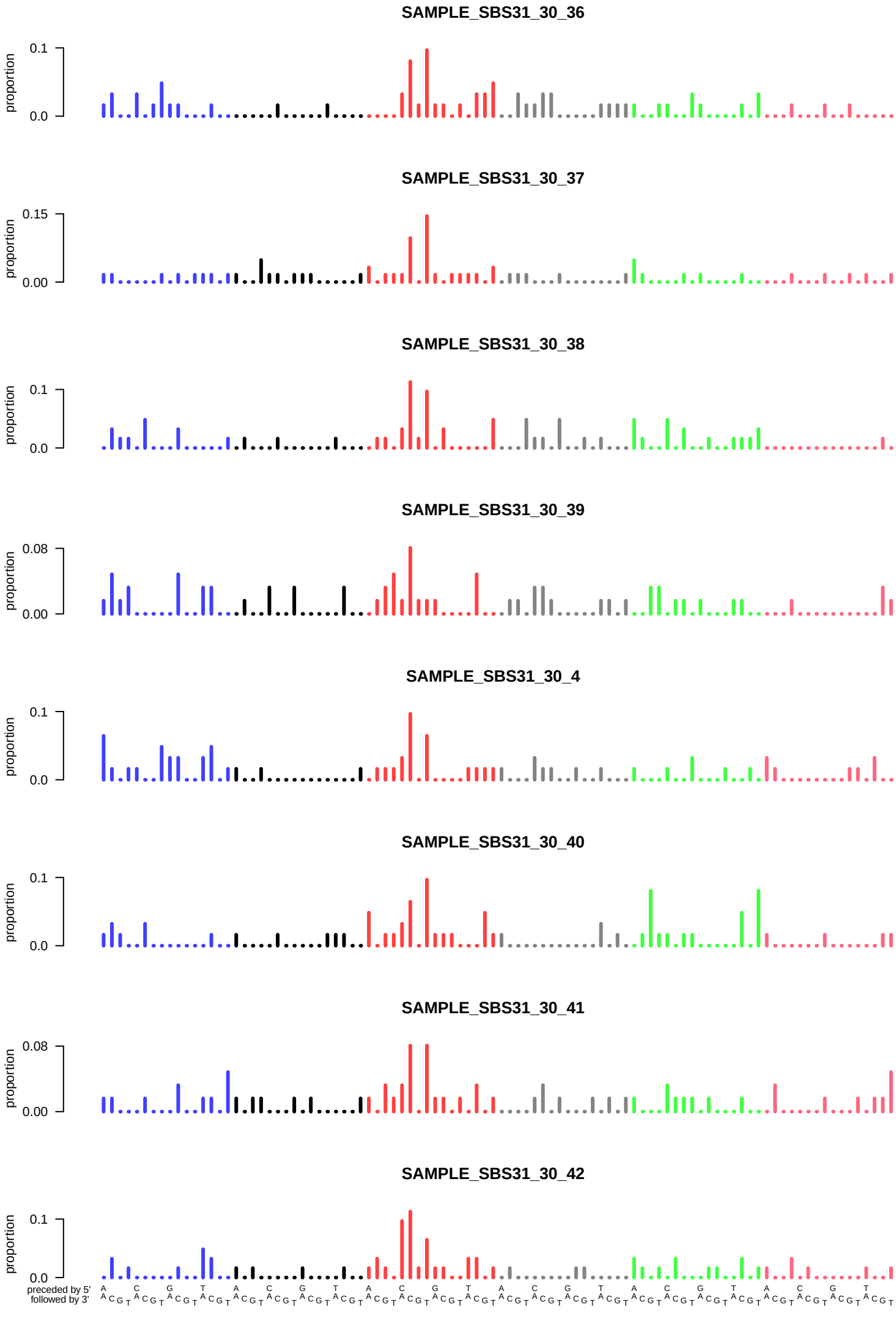

SAMPLE_SBS31_25_90
proportion
0.12
0.00
SAMPLE_SBS31_25_91
proportion
0.06
0.00
SAMPLE_SBS31_25_92
proportion
0.06
0.00
SAMPLE_SBS31_25_93
proportion
0.06
0.00
SAMPLE_SBS31_25_94
proportion
0.1
0.0
SAMPLE_SBS31_25_95
proportion
0.1
0.0
SAMPLE_SBS31_25_96
proportion
0.15
0.00
SAMPLE_SBS31_25_97
proportion
0.05
0.00
preceded by 5'
followed by 3'

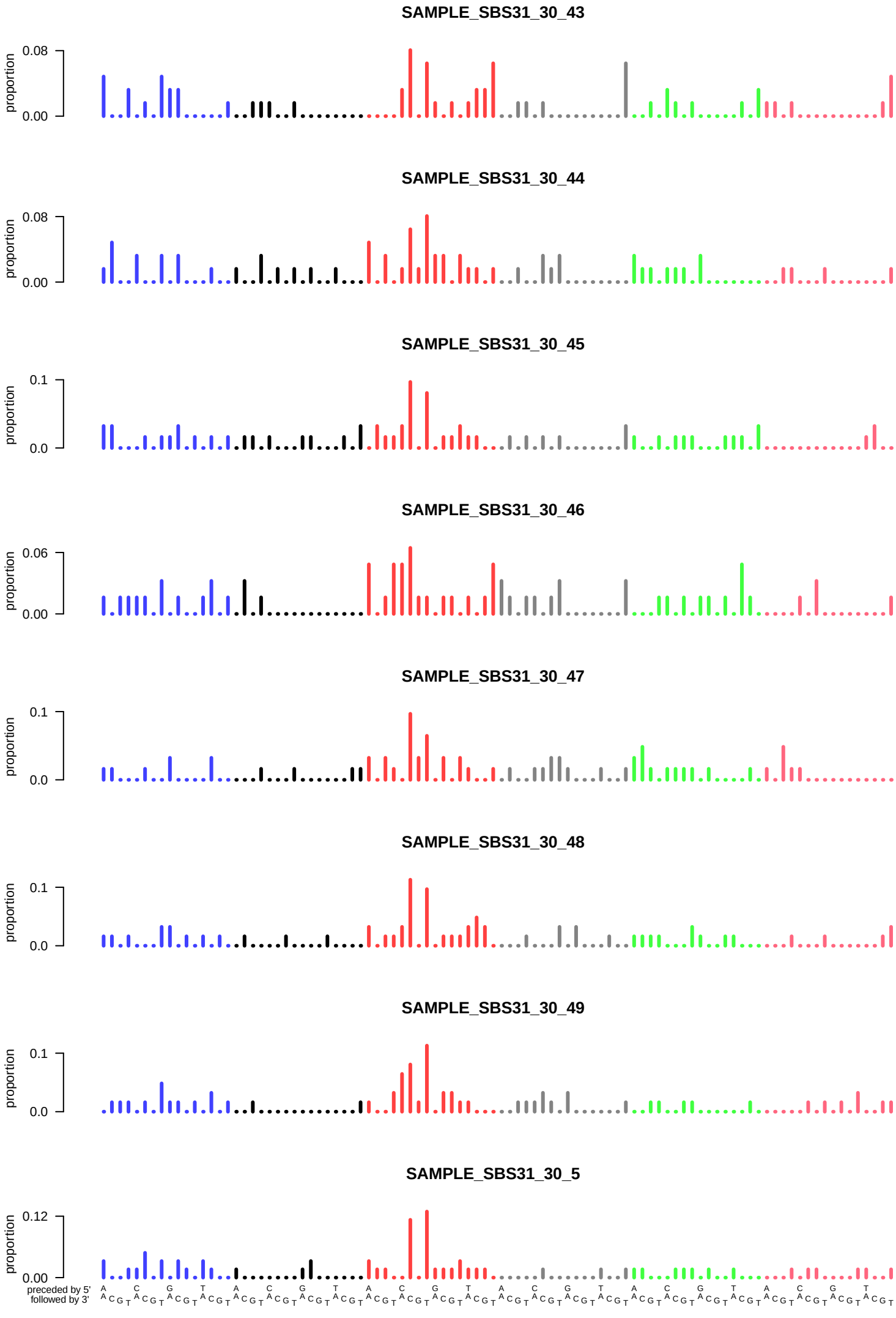

SAMPLE_SBS31_25_98
proportion
0.08
0.00
SAMPLE_SBS31_25_99
proportion
0.08
0.00
SAMPLE_SBS31_30_1
proportion
0.12
0.00
SAMPLE_SBS31_30_10
proportion
0.1
0.0
SAMPLE_SBS31_30_100
proportion
0.08
0.00
SAMPLE_SBS31_30_11
proportion
0.06
0.00
SAMPLE_SBS31_30_12
proportion
0.1
0.0
SAMPLE_SBS31_30_13
proportion
0.12
0.00
preceded by 5'
followed by 3'
A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T

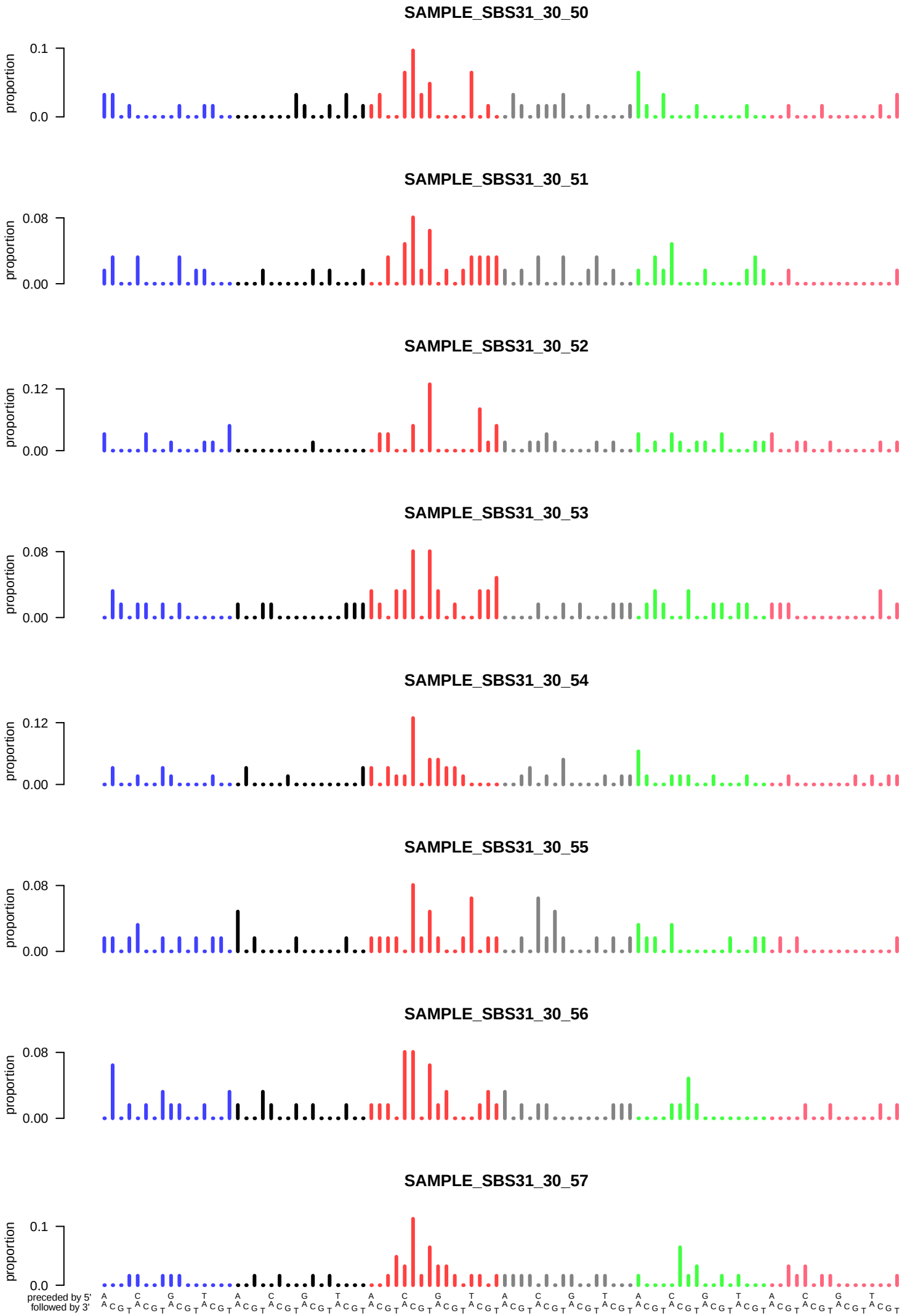

SAMPLE_SBS31_30_14
proportion
0.1
0.0
SAMPLE_SBS31_30_15
proportion
0.15
0.00
SAMPLE_SBS31_30_16
proportion
0.1
0.0
SAMPLE_SBS31_30_17
proportion
0.08
0.00
SAMPLE_SBS31_30_18
proportion
0.1
0.0
SAMPLE_SBS31_30_19
proportion
0.15
0.00
SAMPLE_SBS31_30_2
proportion
0.08
0.00
SAMPLE_SBS31_30_20
proportion
0.1
0.0
preceded by 5'
followed by 3'

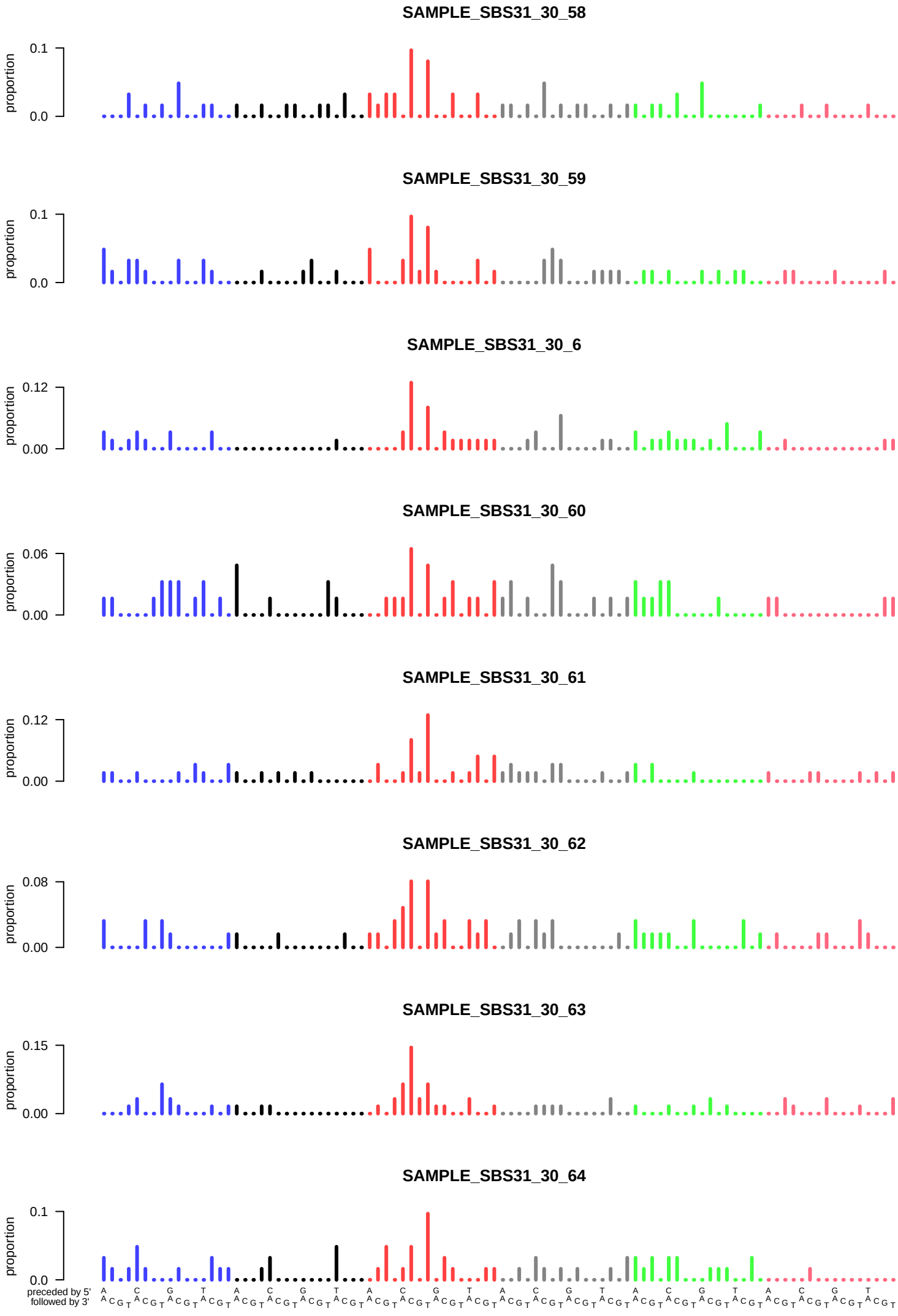

SAMPLE_SBS31_30_21
proportion
0.08
0.00
SAMPLE_SBS31_30_22
proportion
0.15
0.00
SAMPLE_SBS31_30_23
proportion
0.08
0.00
SAMPLE_SBS31_30_24
proportion
0.1
0.0
SAMPLE_SBS31_30_25
proportion
0.08
0.00
SAMPLE_SBS31_30_26
proportion
0.08
0.00
SAMPLE_SBS31_30_27
proportion
0.1
0.0
SAMPLE_SBS31_30_28
proportion
0.08
0.00
preceded by 5'
followed by 3'
A C G T

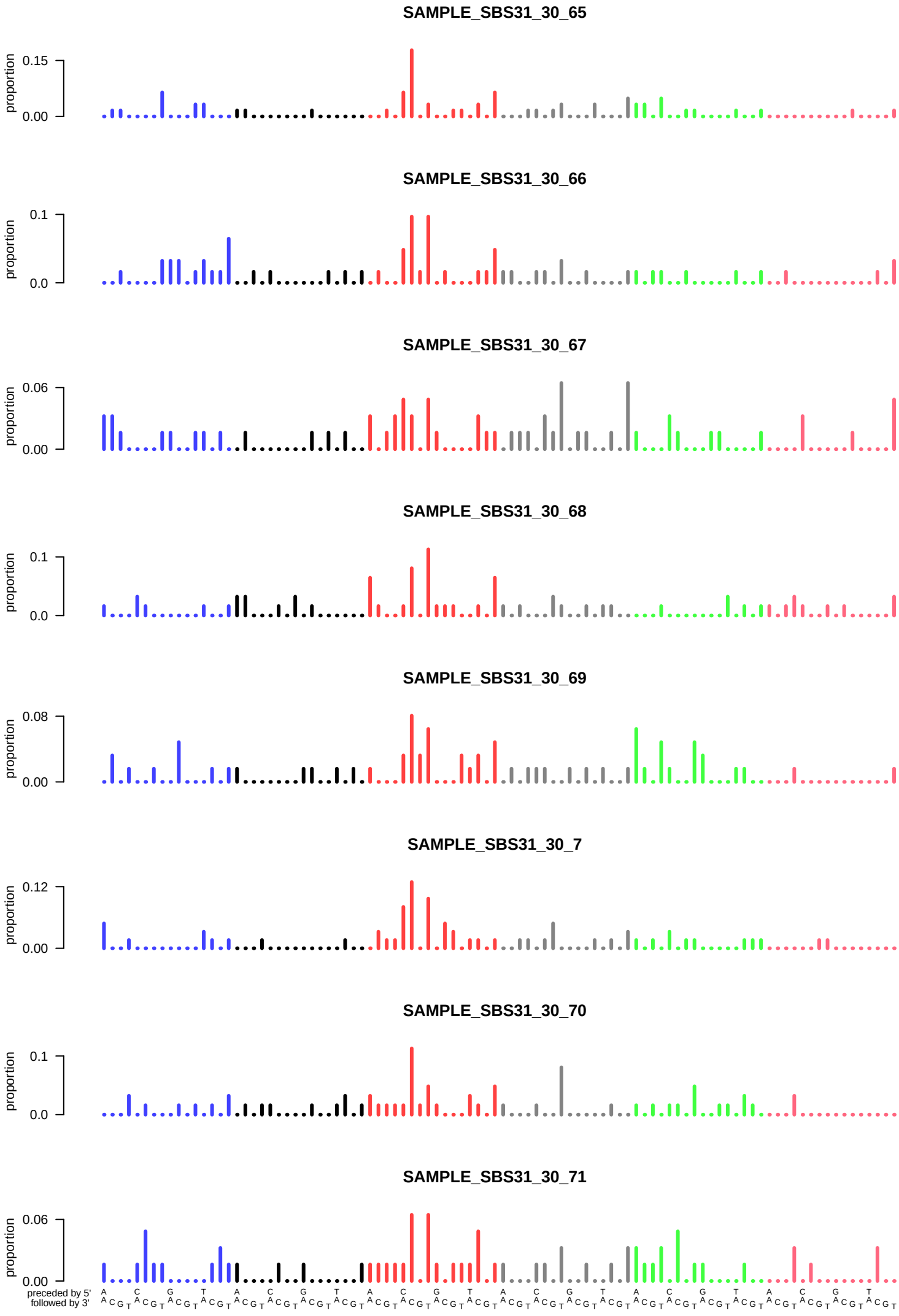

SAMPLE_SBS31_30_29
proportion
0.15
0.00
SAMPLE_SBS31_30_3
proportion
0.1
0.0
SAMPLE_SBS31_30_30
proportion
0.1
0.0
SAMPLE_SBS31_30_31
proportion
0.1
0.0
SAMPLE_SBS31_30_32
proportion
0.08
0.00
SAMPLE_SBS31_30_33
proportion
0.12
0.00
SAMPLE_SBS31_30_34
proportion
0.12
0.00
SAMPLE_SBS31_30_35
proportion
0.1
0.0
preceded by 5'
followed by 3'

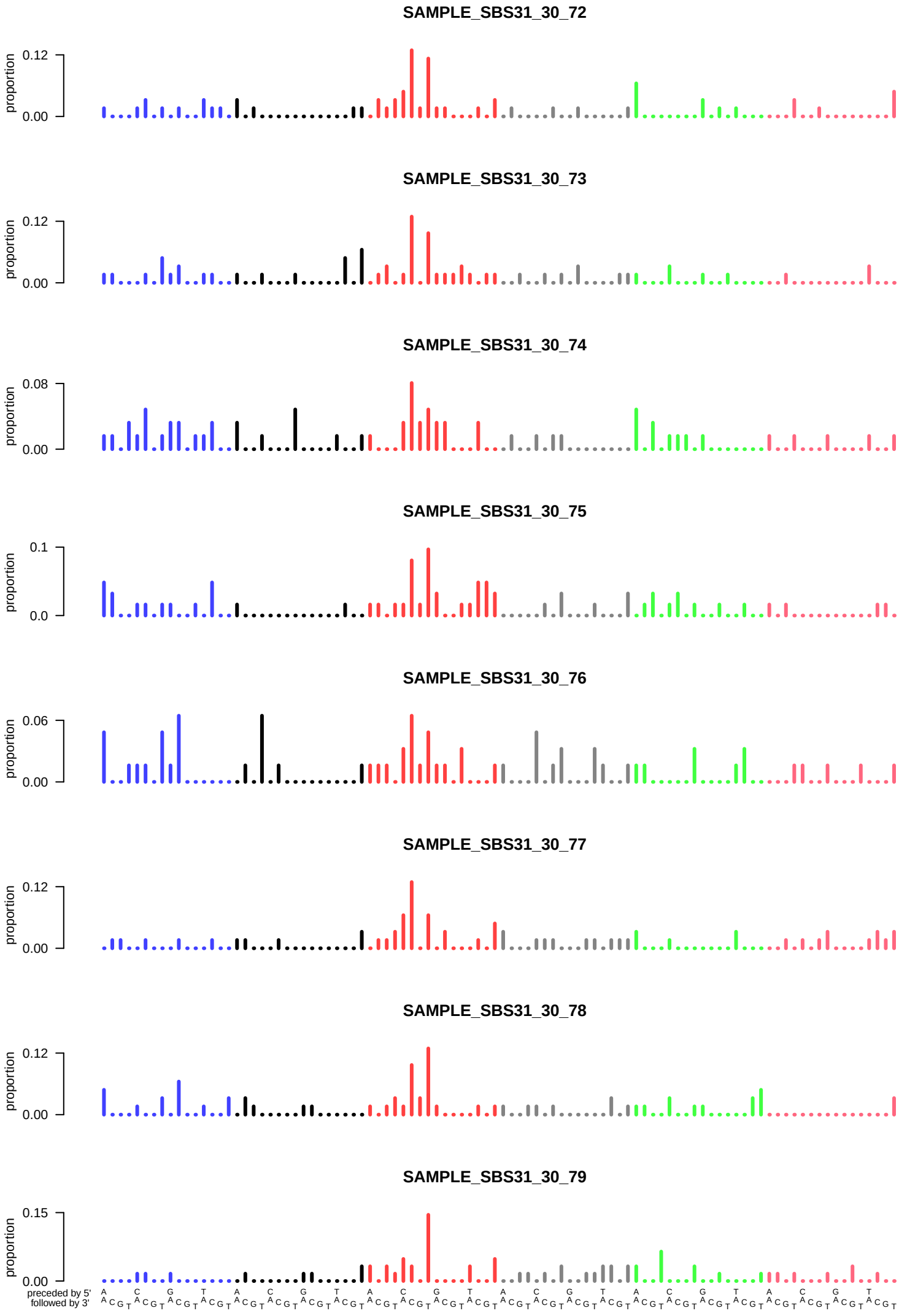

SAMPLE_SBS31_30_36
proportion
0.1
0.0
SAMPLE_SBS31_30_37
proportion
0.15
0.00
SAMPLE_SBS31_30_38
proportion
0.1
0.0
SAMPLE_SBS31_30_39
proportion
0.08
0.00
SAMPLE_SBS31_30_4
proportion
0.1
0.0
SAMPLE_SBS31_30_40
proportion
0.1
0.0
SAMPLE_SBS31_30_41
proportion
0.08
0.00
SAMPLE_SBS31_30_42
proportion
0.1
0.0
preceded by 5'
followed by 3'

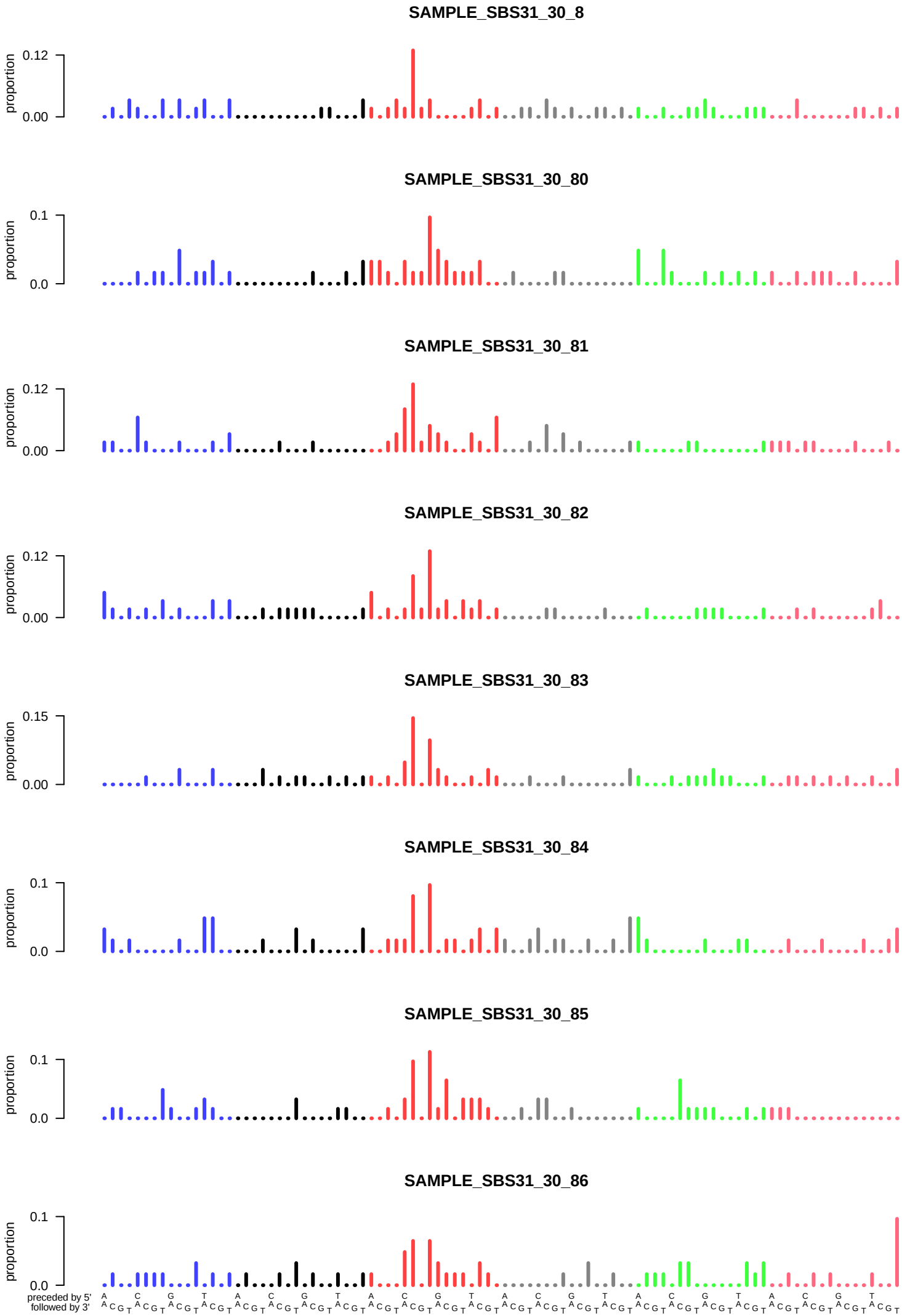

SAMPLE_SBS31_30_43
proportion
0.08
0.00
SAMPLE_SBS31_30_44
proportion
0.08
0.00
SAMPLE_SBS31_30_45
proportion
0.1
0.0
SAMPLE_SBS31_30_46
proportion
0.06
0.00
SAMPLE_SBS31_30_47
proportion
0.1
0.0
SAMPLE_SBS31_30_48
proportion
0.1
0.0
SAMPLE_SBS31_30_49
proportion
0.1
0.0
SAMPLE_SBS31_30_5
proportion
0.12
0.00
preceded by 5'
followed by 3'

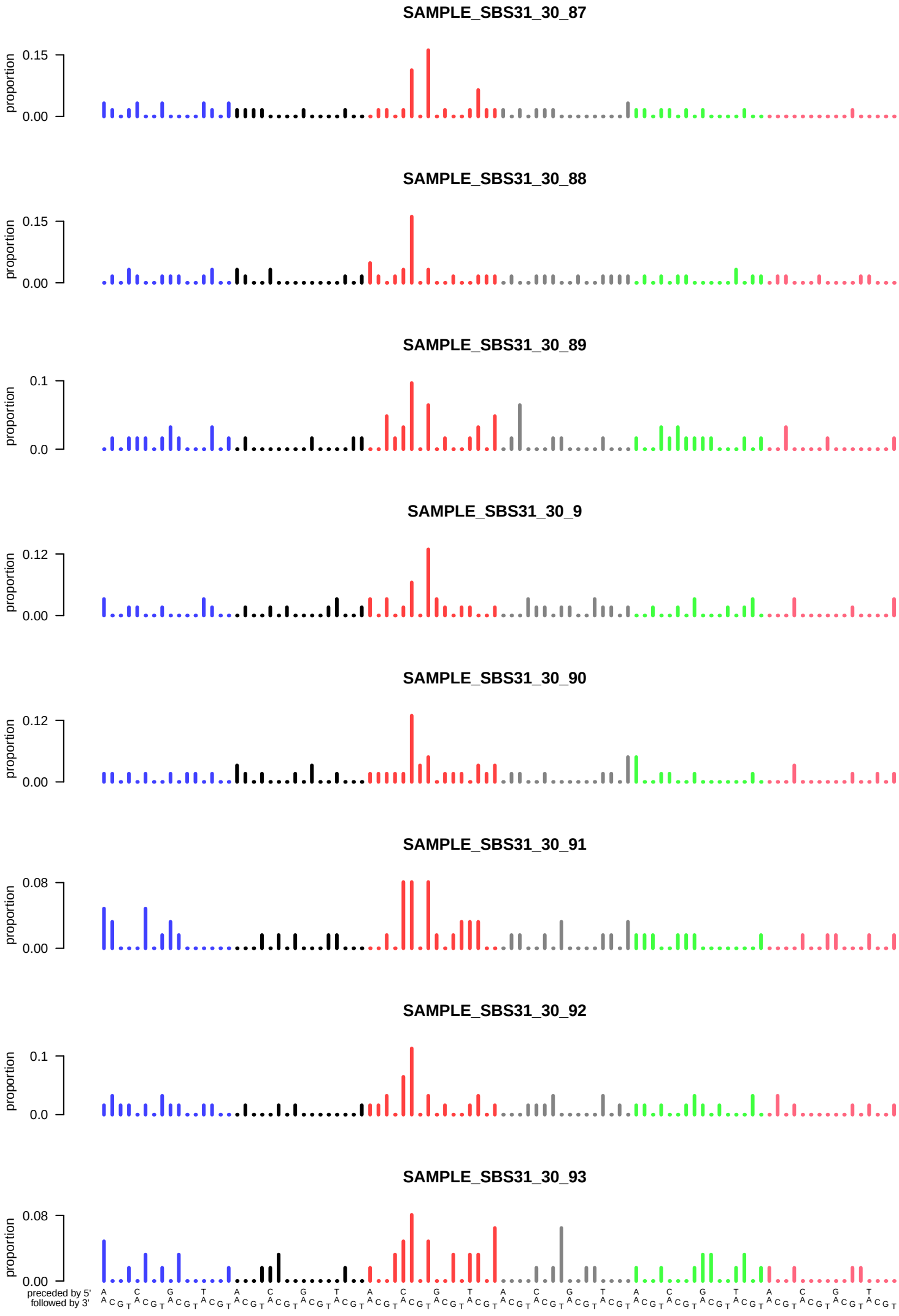

SAMPLE_SBS31_30_50
proportion
0.1
0.0
SAMPLE_SBS31_30_51
proportion
0.08
0.00
SAMPLE_SBS31_30_52
proportion
0.12
0.00
SAMPLE_SBS31_30_53
proportion
0.08
0.00
SAMPLE_SBS31_30_54
proportion
0.12
0.00
SAMPLE_SBS31_30_55
proportion
0.08
0.00
SAMPLE_SBS31_30_56
proportion
0.08
0.00
SAMPLE_SBS31_30_57
proportion
0.1
0.0
preceded by 5'
followed by 3'

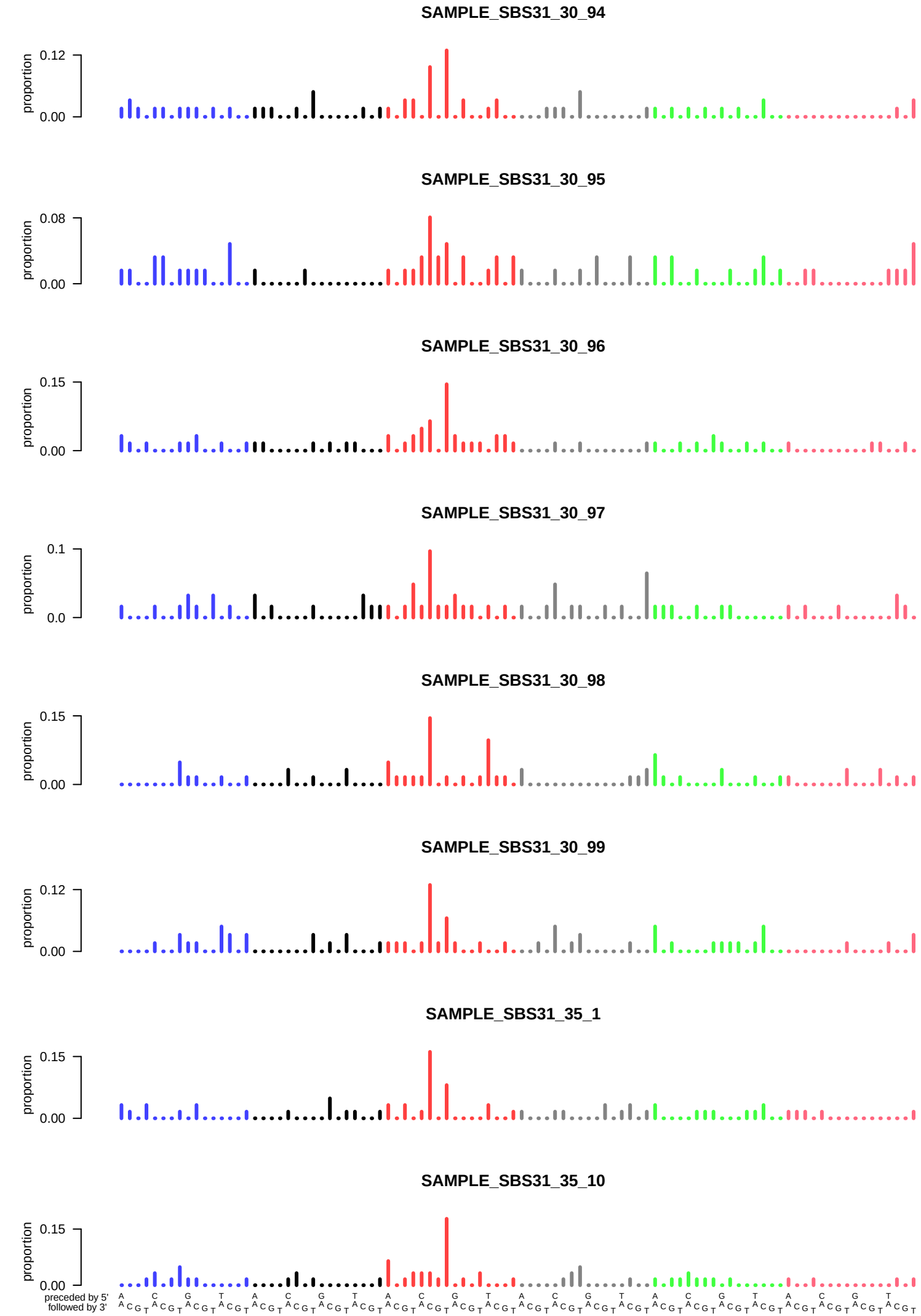

SAMPLE_SBS31_30_58
proportion
0.1
0.0
SAMPLE_SBS31_30_59
proportion
0.1
0.0
SAMPLE_SBS31_30_6
proportion
0.12
0.00
SAMPLE_SBS31_30_60
proportion
0.06
0.00
SAMPLE_SBS31_30_61
proportion
0.12
0.00
SAMPLE_SBS31_30_62
proportion
0.08
0.00
SAMPLE_SBS31_30_63
proportion
0.15
0.00
SAMPLE_SBS31_30_64
proportion
0.1
0.0
preceded by 5'
followed by 3'

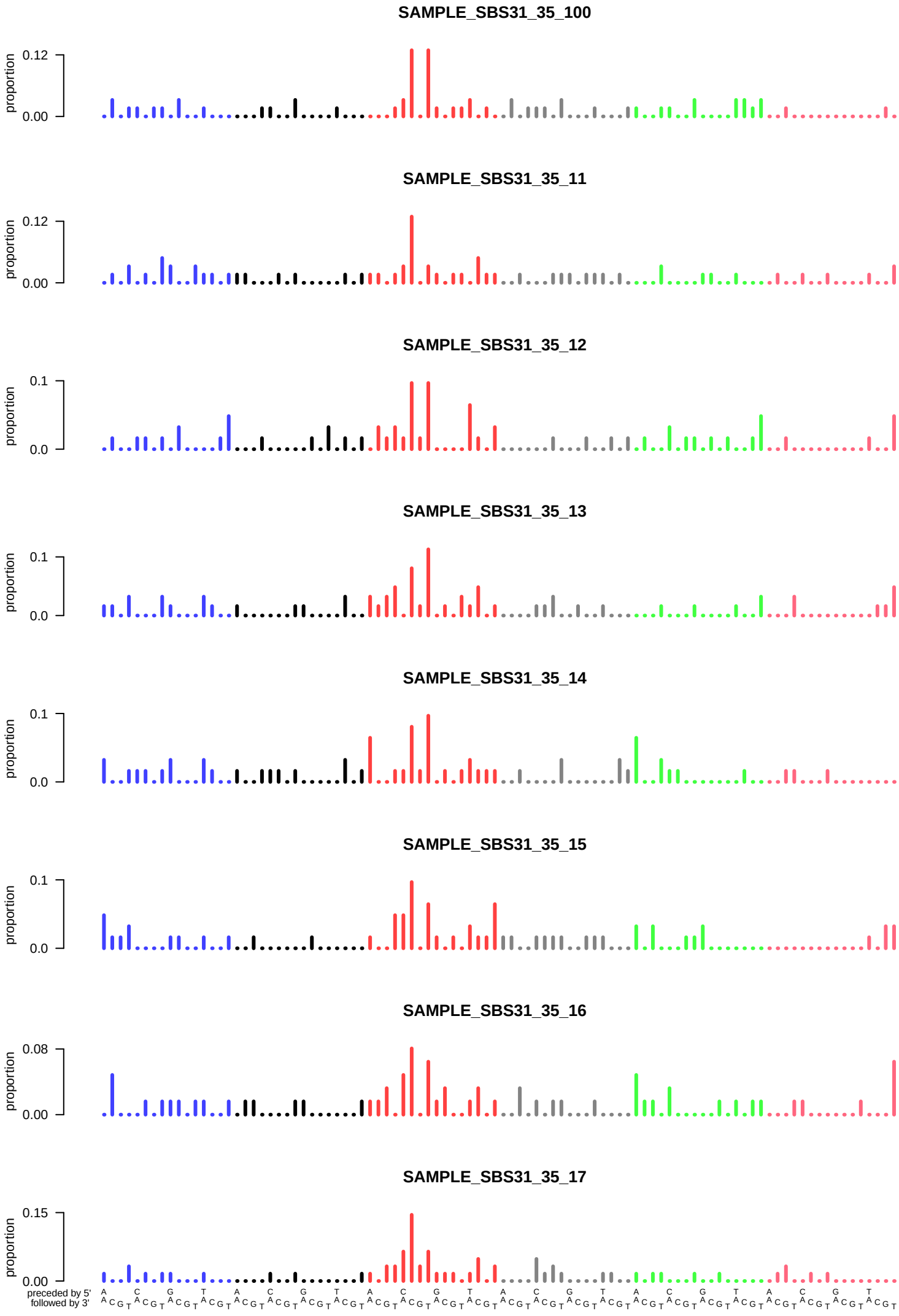

SAMPLE_SBS31_30_65
proportion
0.15
0.00
SAMPLE_SBS31_30_66
proportion
0.1
0.0
SAMPLE_SBS31_30_67
proportion
0.06
0.00
SAMPLE_SBS31_30_68
proportion
0.1
0.0
SAMPLE_SBS31_30_69
proportion
0.08
0.00
SAMPLE_SBS31_30_7
proportion
0.12
0.00
SAMPLE_SBS31_30_70
proportion
0.1
0.0
SAMPLE_SBS31_30_71
proportion
0.06
0.00
preceded by 5'
followed by 3'

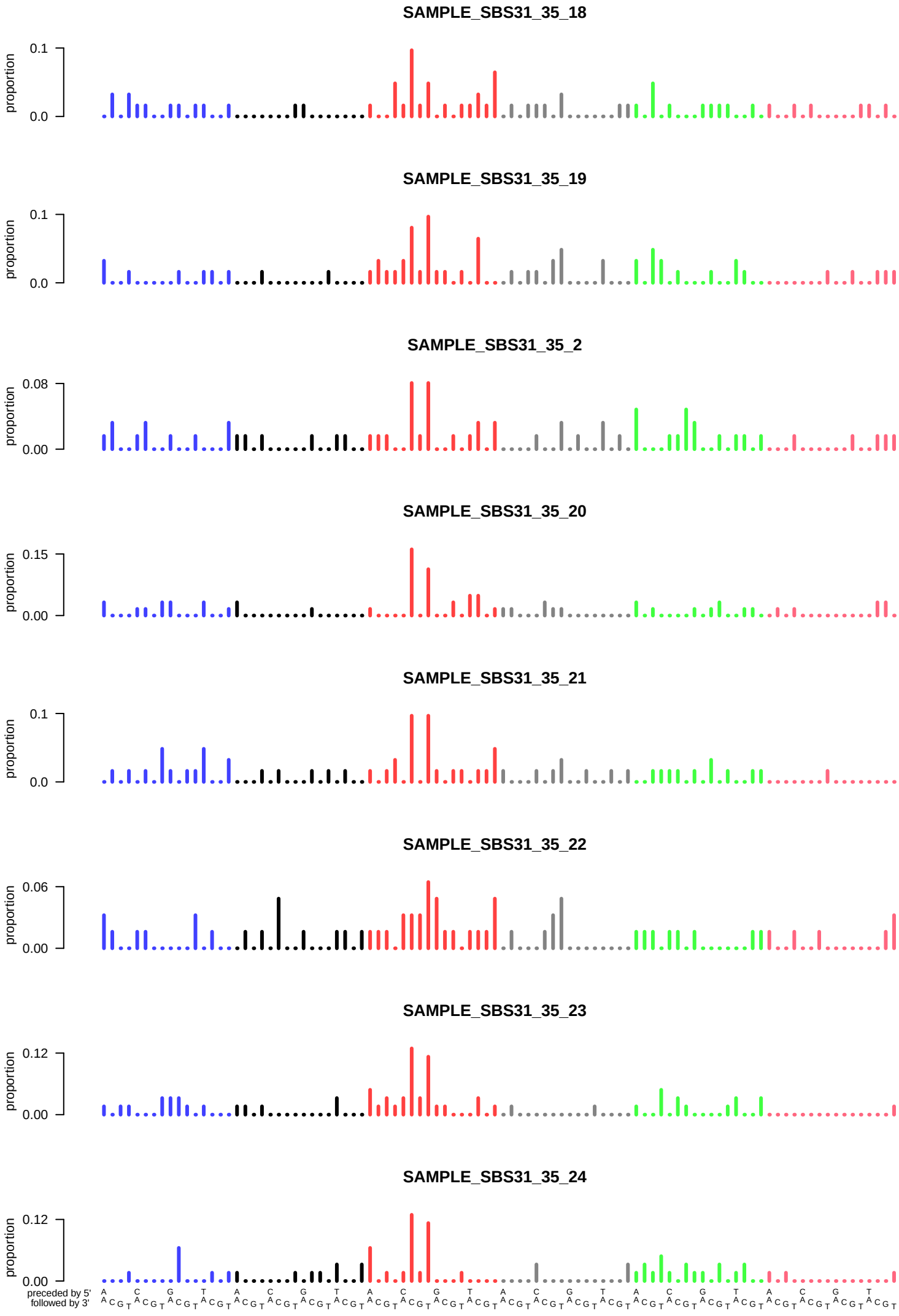

SAMPLE_SBS31_30_72
proportion
0.12
0.00
SAMPLE_SBS31_30_73
proportion
0.12
0.00
SAMPLE_SBS31_30_74
proportion
0.08
0.00
SAMPLE_SBS31_30_75
proportion
0.1
0.0
SAMPLE_SBS31_30_76
proportion
0.06
0.00
SAMPLE_SBS31_30_77
proportion
0.12
0.00
SAMPLE_SBS31_30_78
proportion
0.12
0.00
SAMPLE_SBS31_30_79
proportion
0.15
0.00
preceded by 5'
followed by 3'

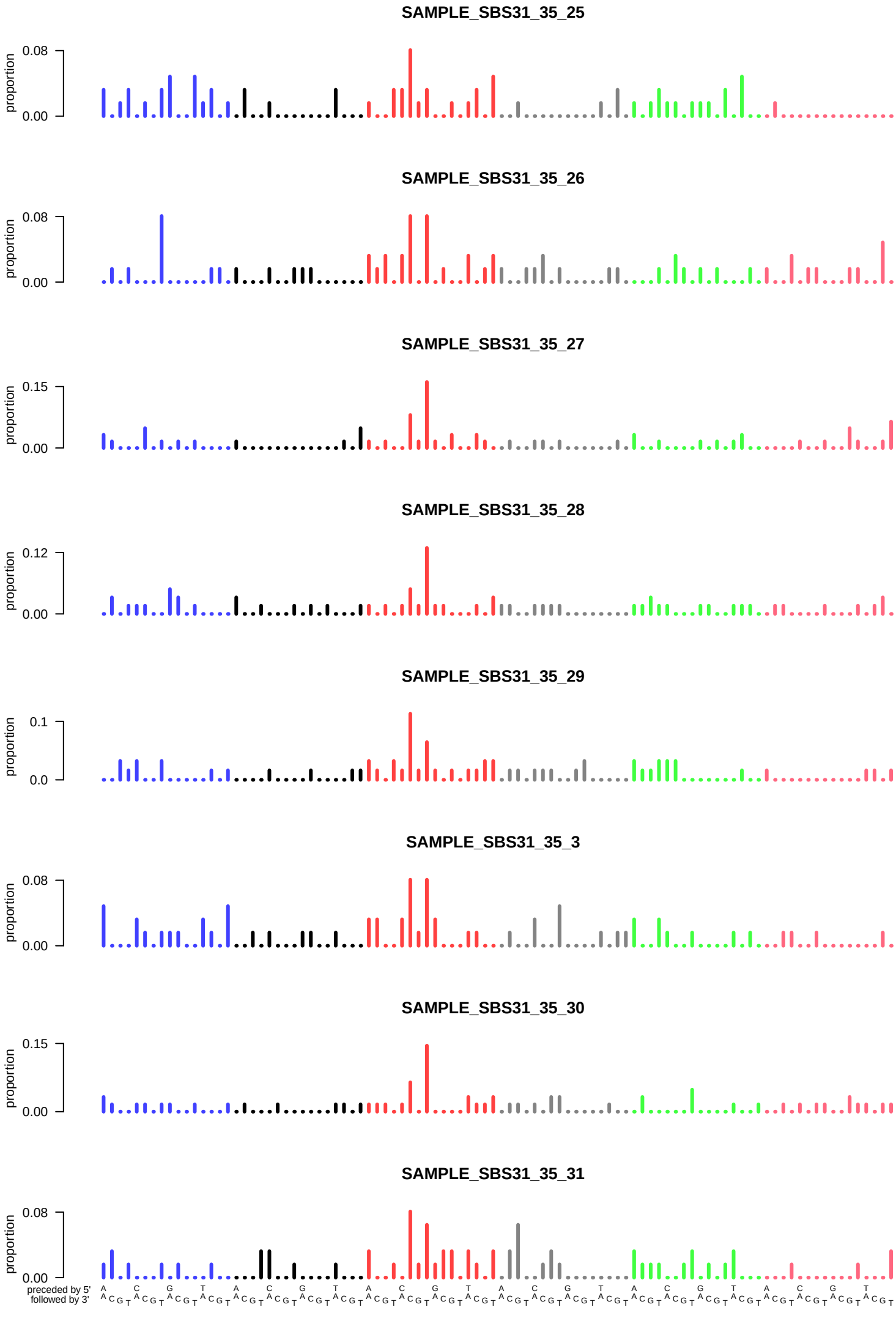

SAMPLE_SBS31_30_8
proportion
0.12
0.00
SAMPLE_SBS31_30_80
proportion
0.1
0.0
SAMPLE_SBS31_30_81
proportion
0.12
0.00
SAMPLE_SBS31_30_82
proportion
0.12
0.00
SAMPLE_SBS31_30_83
proportion
0.15
0.00
SAMPLE_SBS31_30_84
proportion
0.1
0.0
SAMPLE_SBS31_30_85
proportion
0.1
0.0
SAMPLE_SBS31_30_86
proportion
0.1
0.0
preceded by 5'
followed by 3'

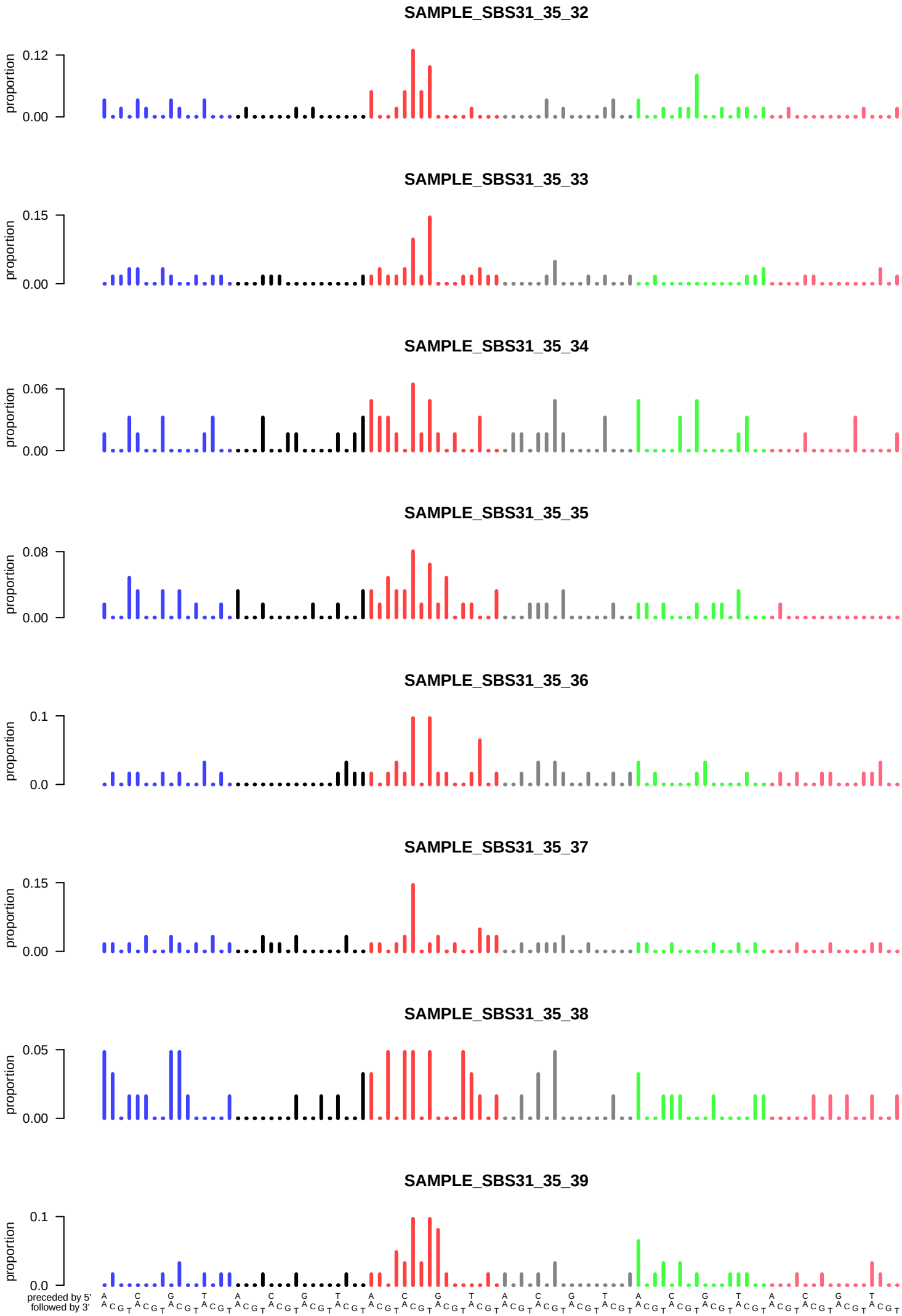

SAMPLE_SBS31_30_87
proportion
0.15
0.00
SAMPLE_SBS31_30_88
proportion
0.15
0.00
SAMPLE_SBS31_30_89
proportion
0.1
0.0
SAMPLE_SBS31_30_9
proportion
0.12
0.00
SAMPLE_SBS31_30_90
proportion
0.12
0.00
SAMPLE_SBS31_30_91
proportion
0.08
0.00
SAMPLE_SBS31_30_92
proportion
0.1
0.0
SAMPLE_SBS31_30_93
proportion
0.08
0.00
preceded by 5'
followed by 3'

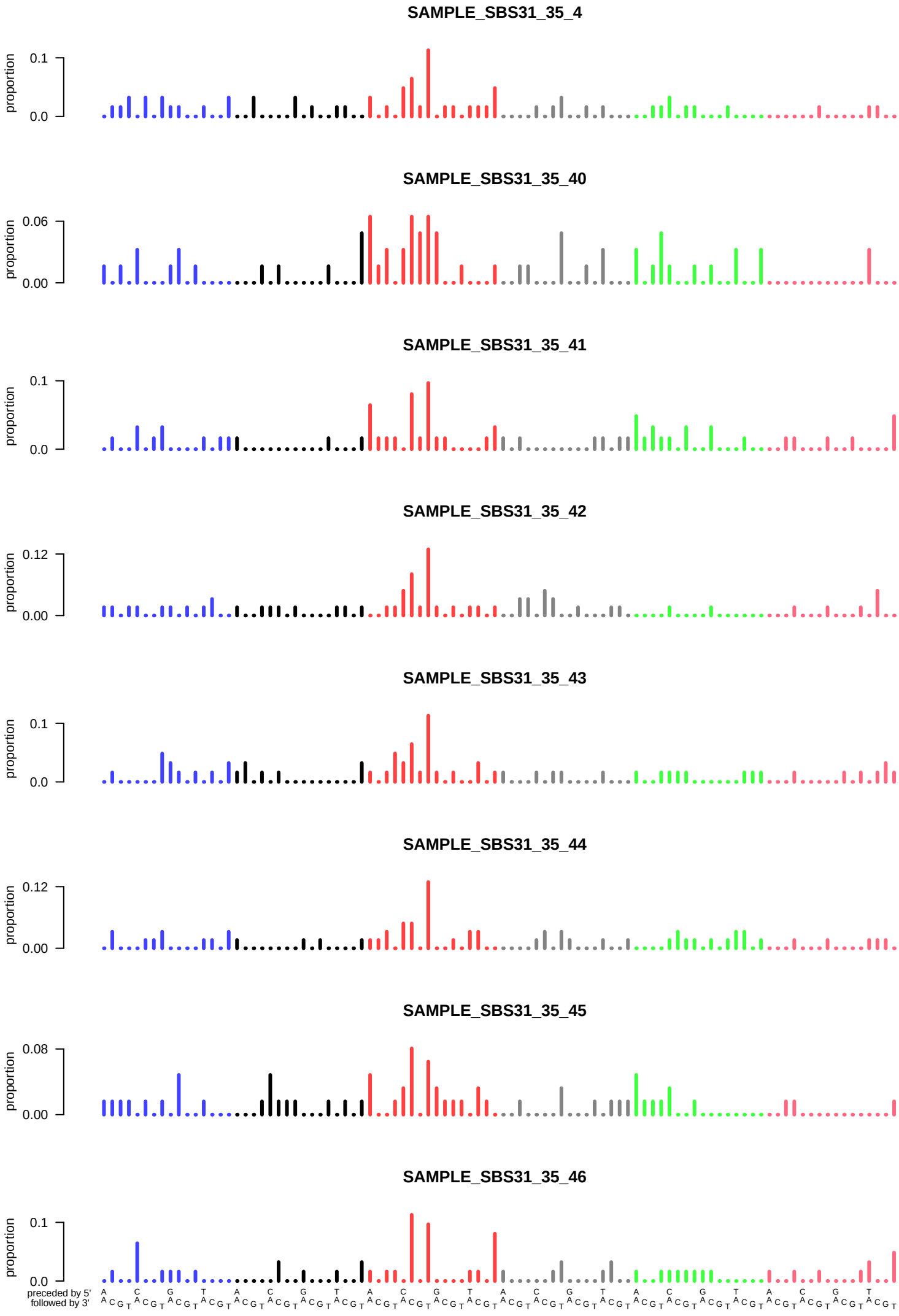

SAMPLE_SBS31_30_94
proportion
0.12
0.00
SAMPLE_SBS31_30_95
proportion
0.08
0.00
SAMPLE_SBS31_30_96
proportion
0.15
0.00
SAMPLE_SBS31_30_97
proportion
0.1
0.0
SAMPLE_SBS31_30_98
proportion
0.15
0.00
SAMPLE_SBS31_30_99
proportion
0.12
0.00
SAMPLE_SBS31_35_1
proportion
0.15
0.00
SAMPLE_SBS31_35_10
proportion
0.15
0.00
preceded by 5'
followed by 3'

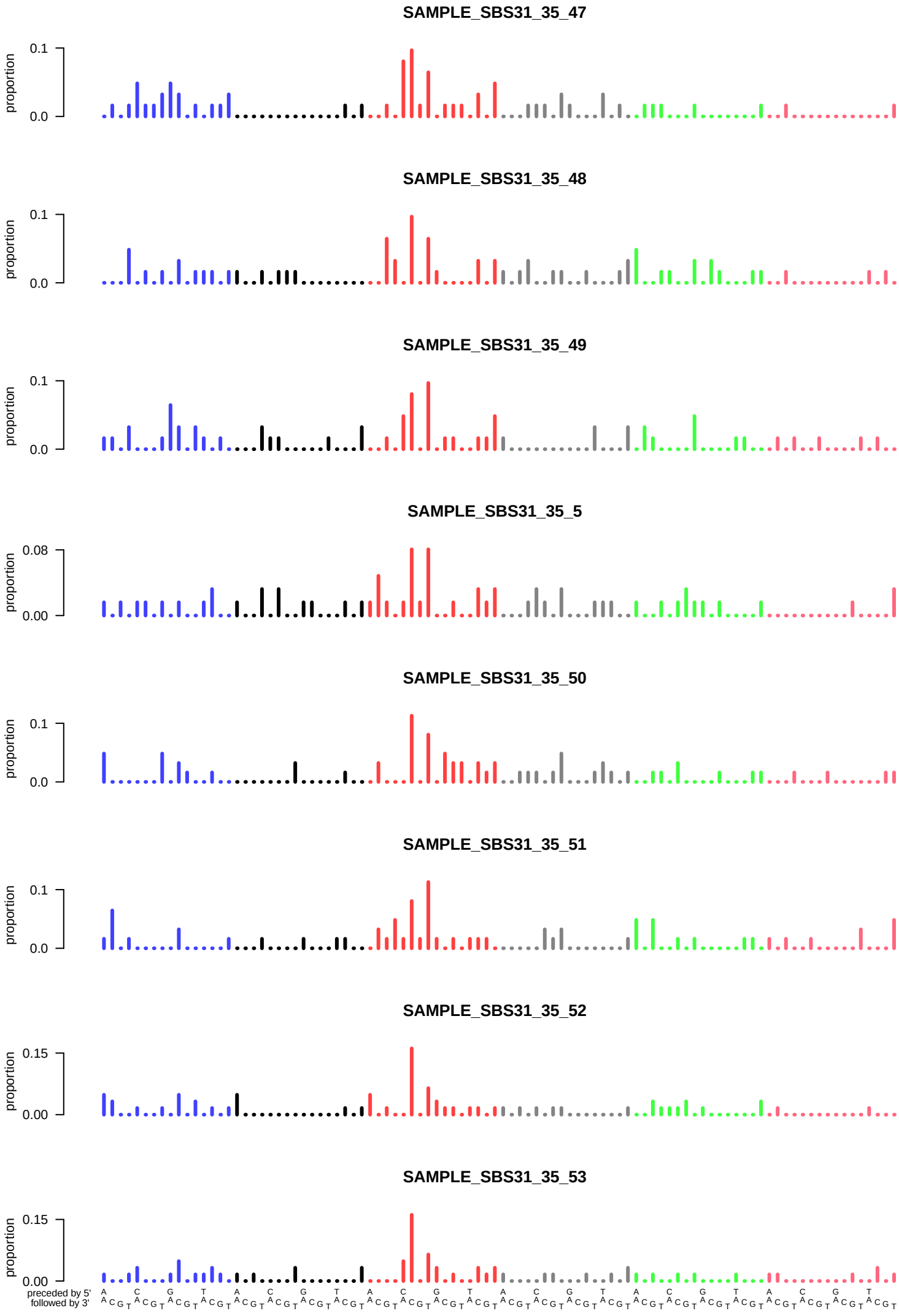

SAMPLE_SBS31_35_100
proportion
0.12
0.00
SAMPLE_SBS31_35_11
proportion
0.12
0.00
SAMPLE_SBS31_35_12
proportion
0.1
0.0
SAMPLE_SBS31_35_13
proportion
0.1
0.0
SAMPLE_SBS31_35_14
proportion
0.1
0.0
SAMPLE_SBS31_35_15
proportion
0.1
0.0
SAMPLE_SBS31_35_16
proportion
0.08
0.00
SAMPLE_SBS31_35_17
proportion
0.15
0.00
preceded by 5'
followed by 3'

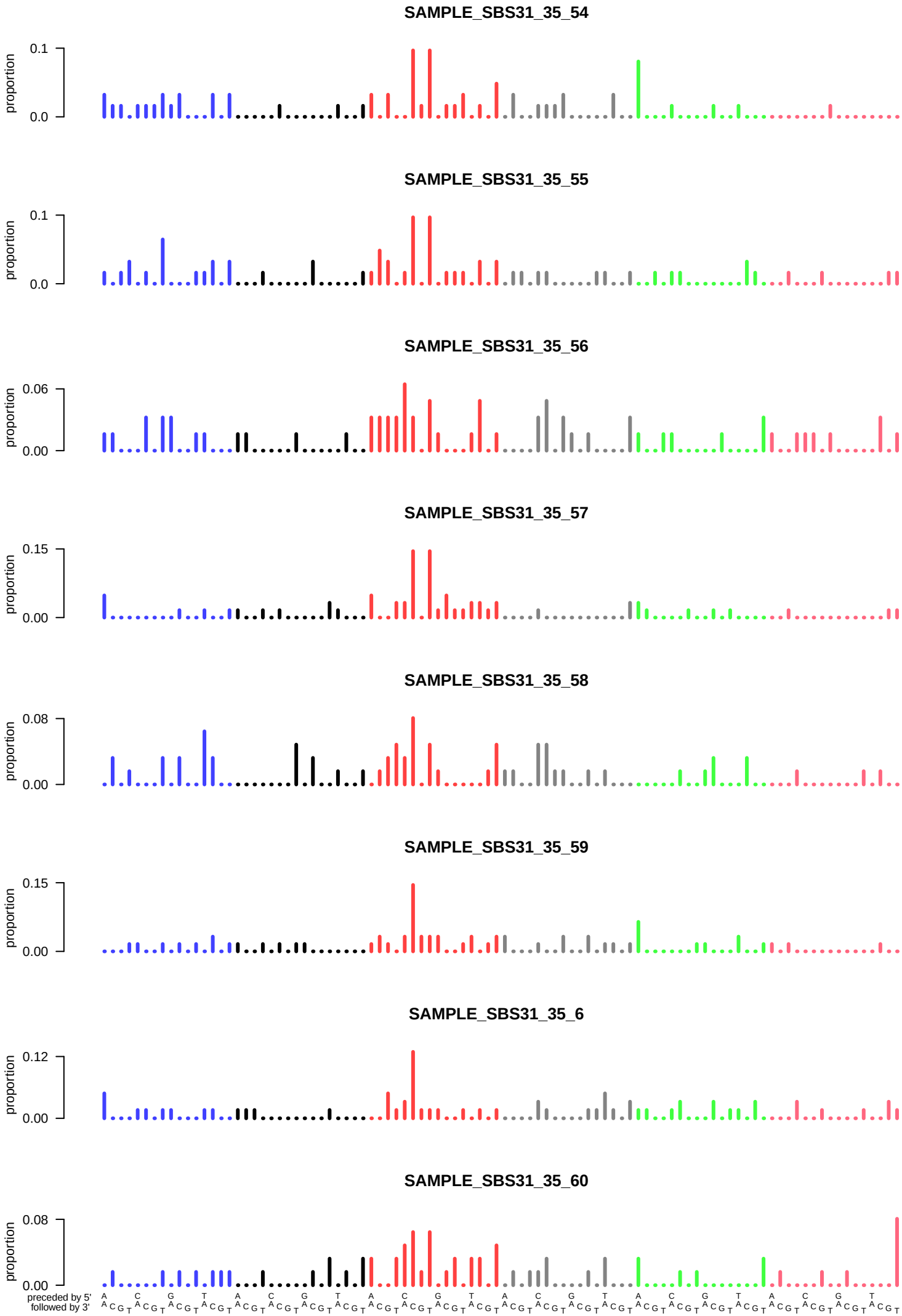

SAMPLE_SBS31_35_18
proportion
0.1
0.0
SAMPLE_SBS31_35_19
proportion
0.1
0.0
SAMPLE_SBS31_35_2
proportion
0.08
0.00
SAMPLE_SBS31_35_20
proportion
0.15
0.00
SAMPLE_SBS31_35_21
proportion
0.1
0.0
SAMPLE_SBS31_35_22
proportion
0.06
0.00
SAMPLE_SBS31_35_23
proportion
0.12
0.00
SAMPLE_SBS31_35_24
proportion
0.12
0.00
preceded by 5'
followed by 3'

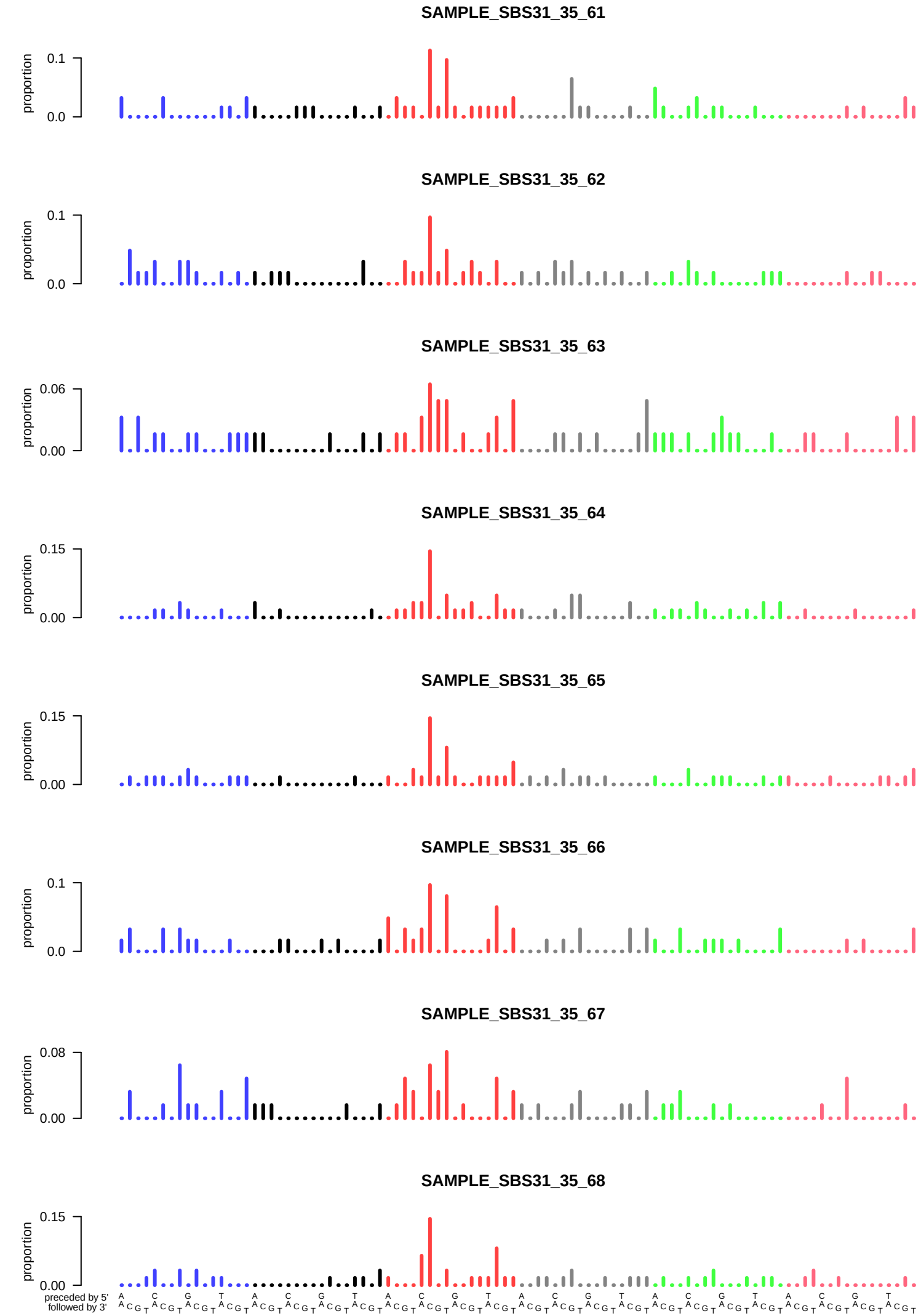

SAMPLE_SBS31_35_25
proportion
0.08
0.00
SAMPLE_SBS31_35_26
proportion
0.08
0.00
SAMPLE_SBS31_35_27
proportion
0.15
0.00
SAMPLE_SBS31_35_28
proportion
0.12
0.00
SAMPLE_SBS31_35_29
proportion
0.1
0.0
SAMPLE_SBS31_35_3
proportion
0.08
0.00
SAMPLE_SBS31_35_30
proportion
0.15
0.00
SAMPLE_SBS31_35_31
proportion
0.08
0.00
preceded by 5'
followed by 3'

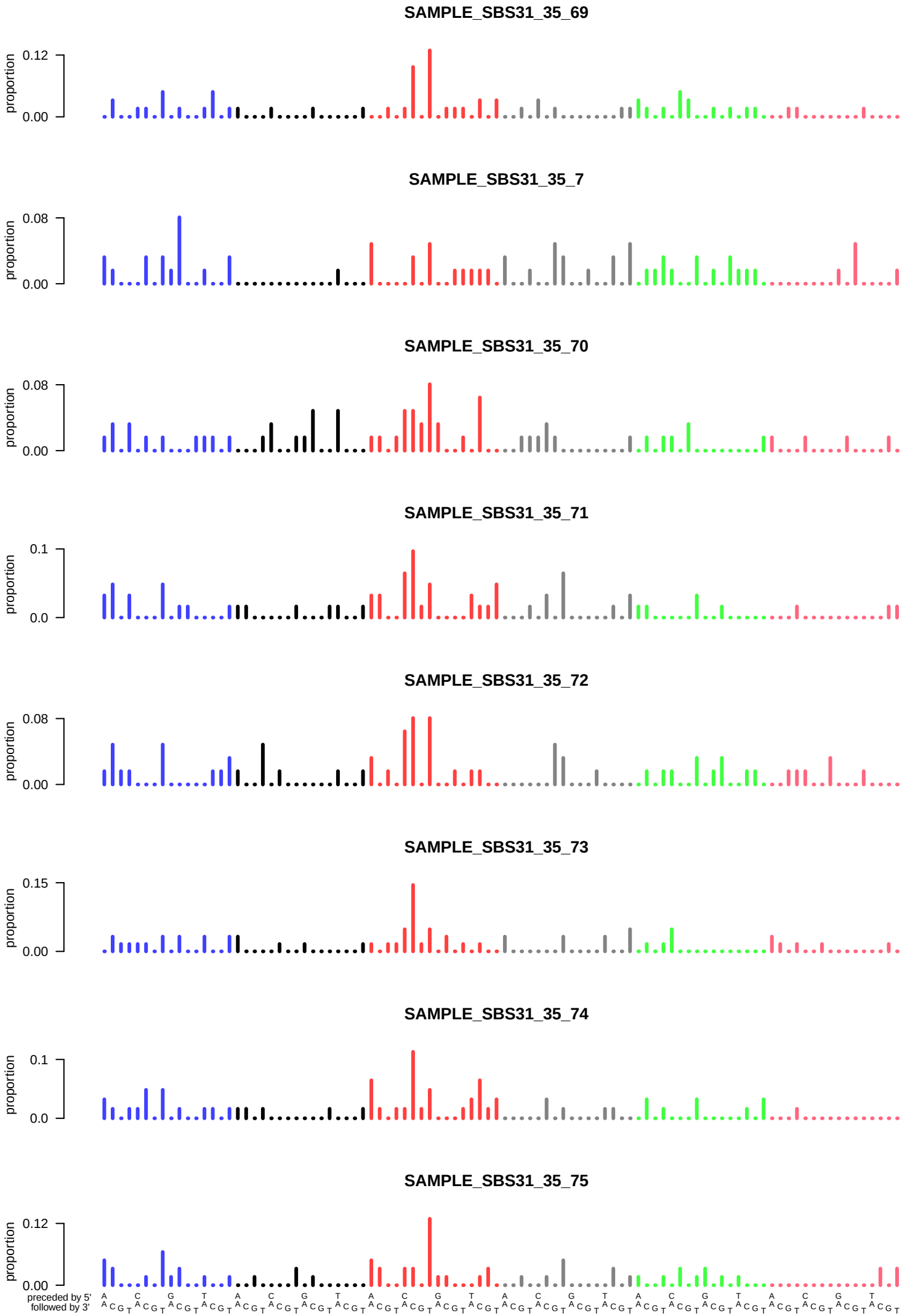

SAMPLE_SBS31_35_32
proportion
0.12
0.00
SAMPLE_SBS31_35_33
proportion
0.15
0.00
SAMPLE_SBS31_35_34
proportion
0.06
0.00
SAMPLE_SBS31_35_35
proportion
0.08
0.00
SAMPLE_SBS31_35_36
proportion
0.1
0.0
SAMPLE_SBS31_35_37
proportion
0.15
0.00
SAMPLE_SBS31_35_38
proportion
0.05
0.00
SAMPLE_SBS31_35_39
proportion
0.1
0.0
preceded by 5'
followed by 3'

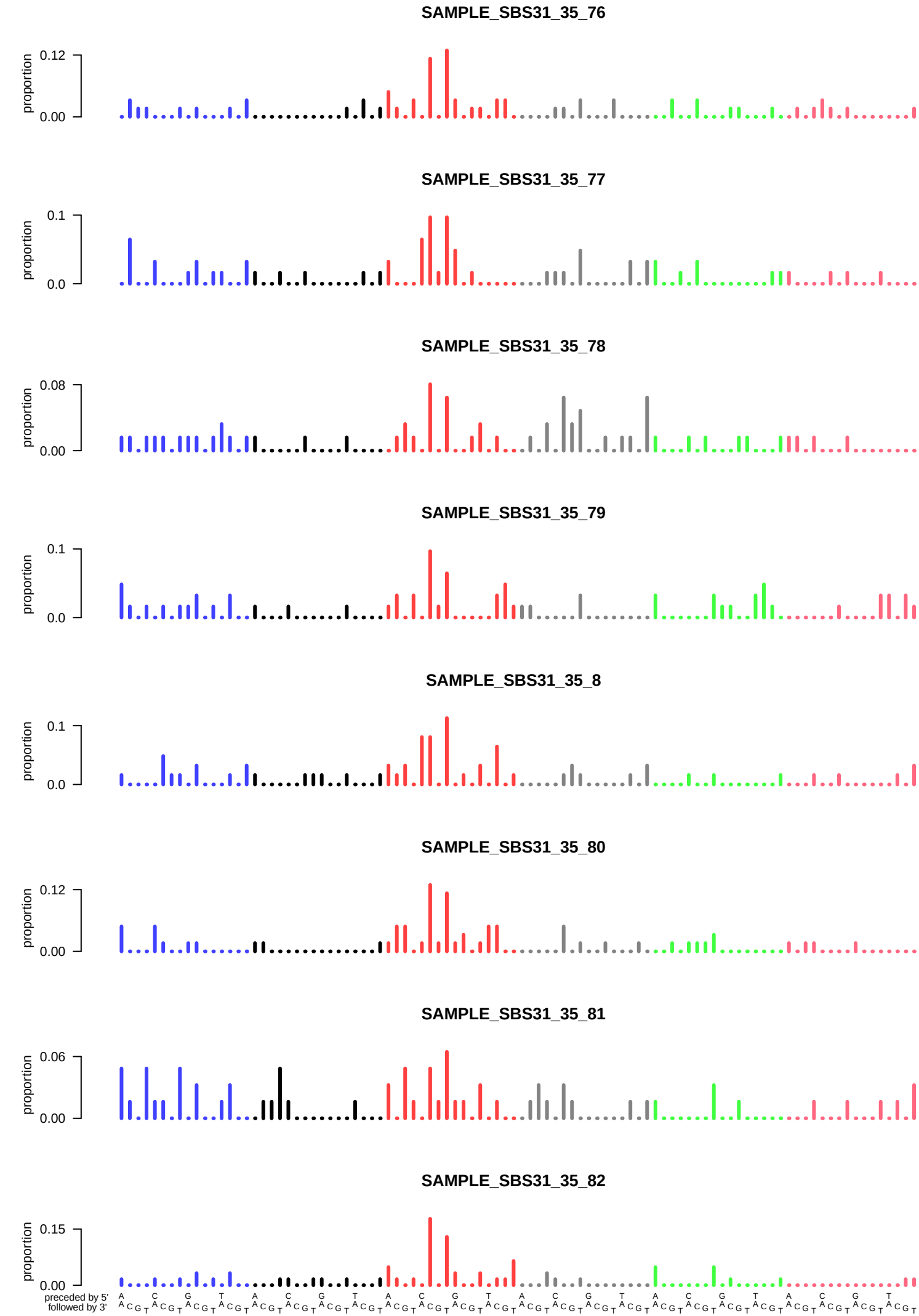

SAMPLE_SBS31_35_4
proportion
0.1
0.0
SAMPLE_SBS31_35_40
proportion
0.06
0.00
SAMPLE_SBS31_35_41
proportion
0.1
0.0
SAMPLE_SBS31_35_42
proportion
0.12
0.00
SAMPLE_SBS31_35_43
proportion
0.1
0.0
SAMPLE_SBS31_35_44
proportion
0.12
0.00
SAMPLE_SBS31_35_45
proportion
0.08
0.00
SAMPLE_SBS31_35_46
proportion
0.1
0.0
preceded by 5'
followed by 3'

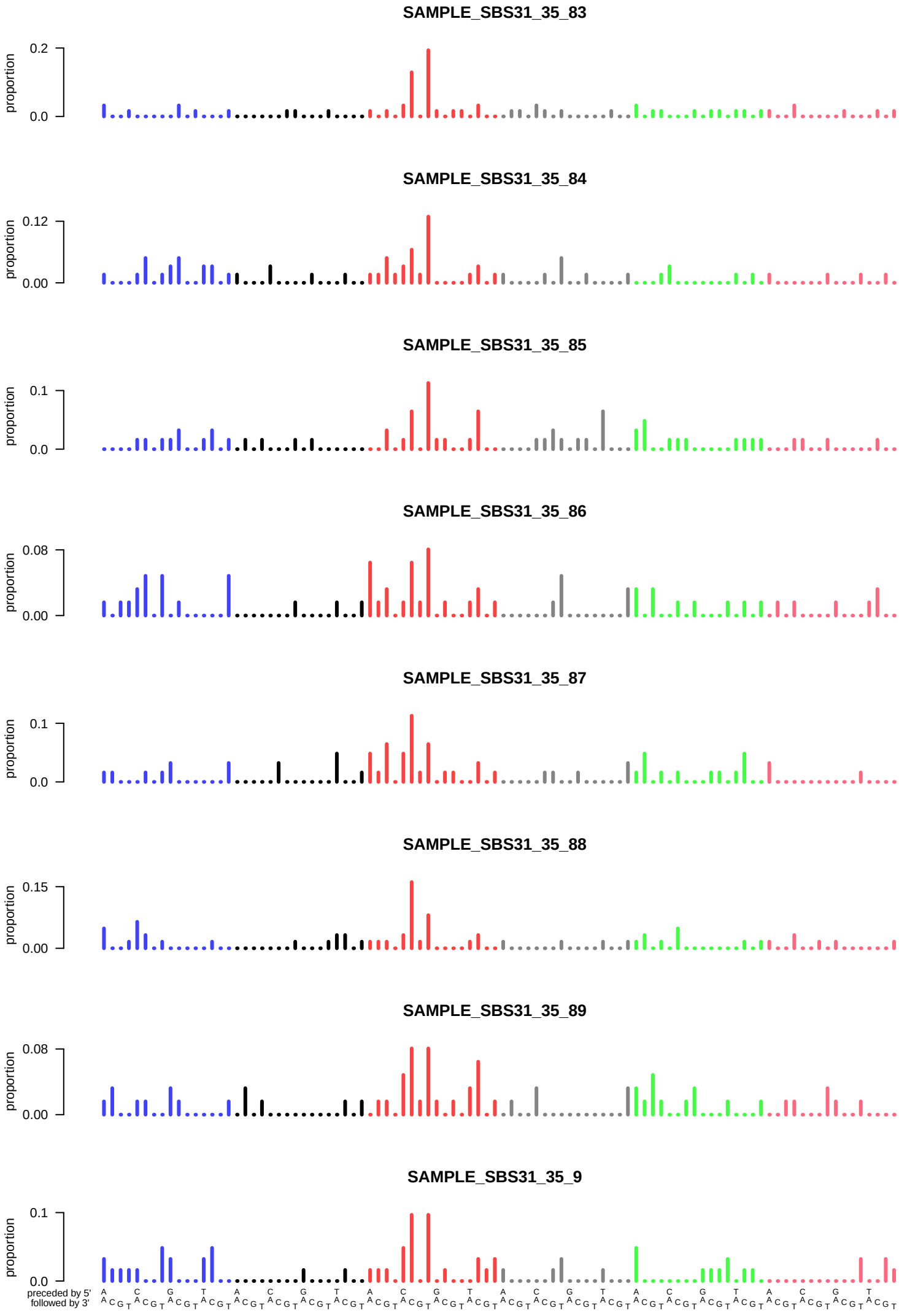

SAMPLE_SBS31_35_47
proportion
0.1
0.0
SAMPLE_SBS31_35_48
proportion
0.1
0.0
SAMPLE_SBS31_35_49
proportion
0.1
0.0
SAMPLE_SBS31_35_5
proportion
0.08
0.00
SAMPLE_SBS31_35_50
proportion
0.1
0.0
SAMPLE_SBS31_35_51
proportion
0.1
0.0
SAMPLE_SBS31_35_52
proportion
0.15
0.00
SAMPLE_SBS31_35_53
proportion
0.15
0.00
preceded by 5'
followed by 3'

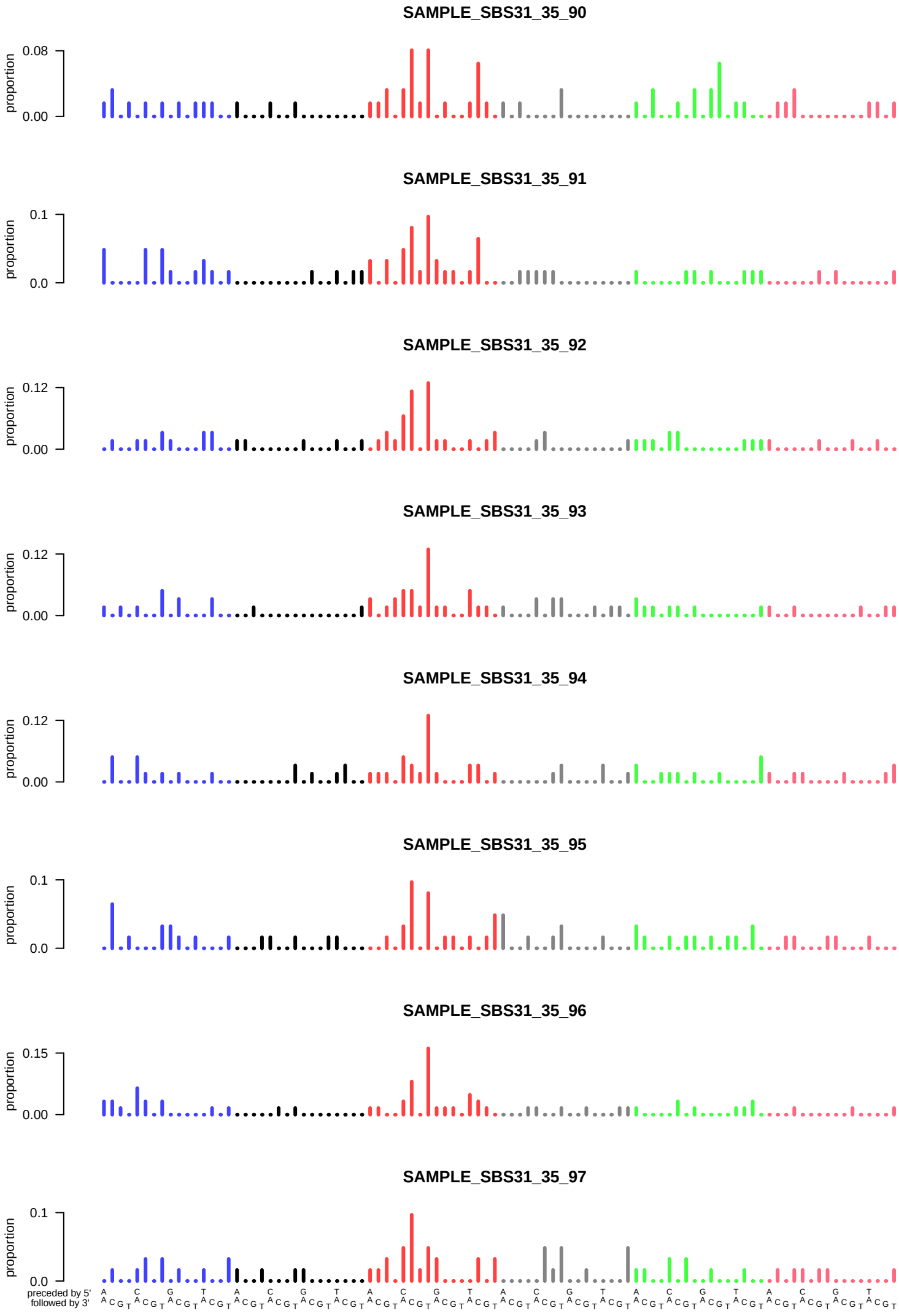

SAMPLE_SBS31_35_54
proportion
0.1
0.0
SAMPLE_SBS31_35_55
proportion
0.1
0.0
SAMPLE_SBS31_35_56
proportion
0.06
0.00
SAMPLE_SBS31_35_57
proportion
0.15
0.00
SAMPLE_SBS31_35_58
proportion
0.08
0.00
SAMPLE_SBS31_35_59
proportion
0.15
0.00
SAMPLE_SBS31_35_6
proportion
0.12
0.00
SAMPLE_SBS31_35_60
proportion
0.08
0.00
preceded by 5'
followed by 3'

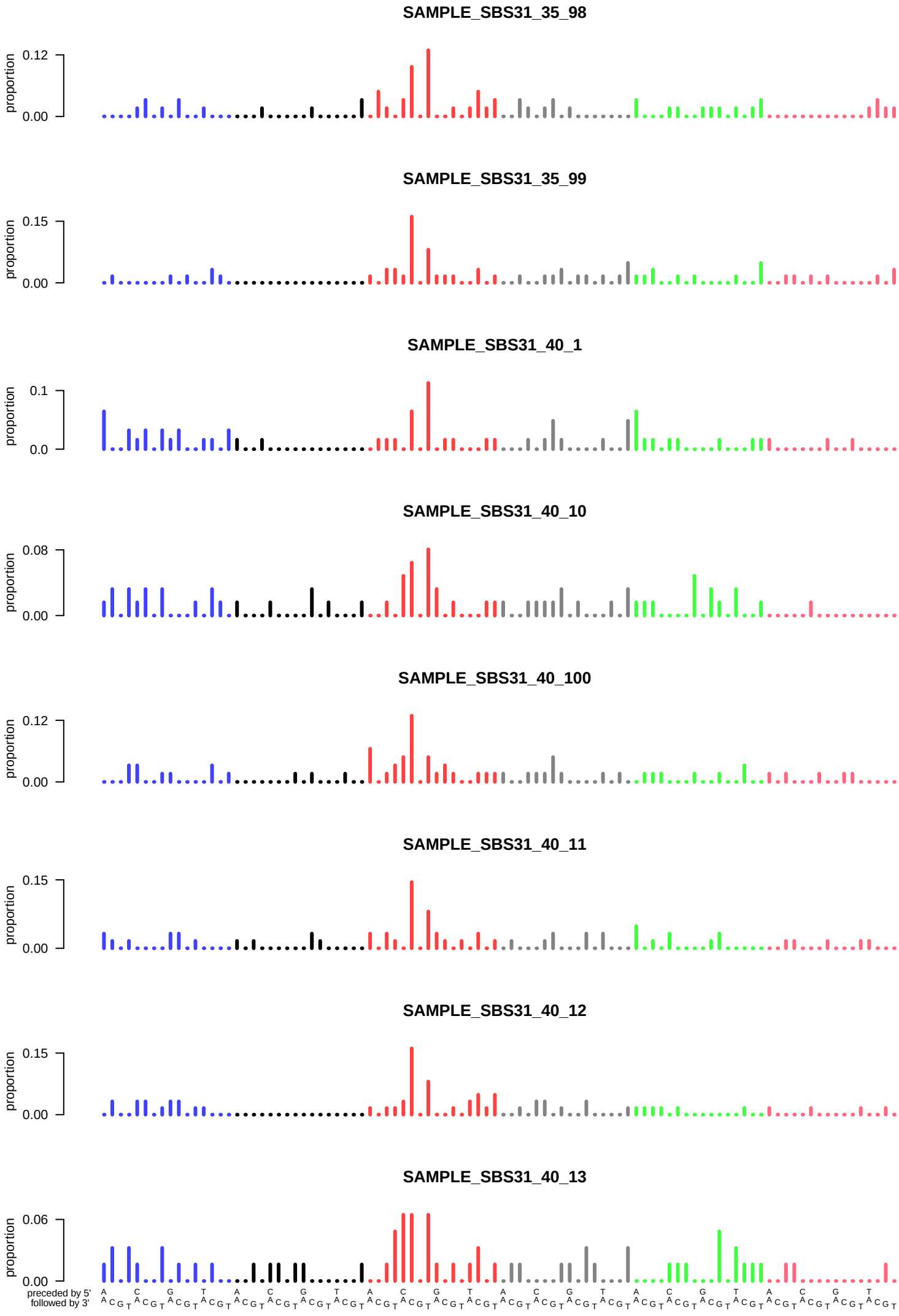

SAMPLE_SBS31_35_61
proportion
0.1
0.0
SAMPLE_SBS31_35_62
proportion
0.1
0.0
SAMPLE_SBS31_35_63
proportion
0.06
0.00
SAMPLE_SBS31_35_64
proportion
0.15
0.00
SAMPLE_SBS31_35_65
proportion
0.15
0.00
SAMPLE_SBS31_35_66
proportion
0.1
0.0
SAMPLE_SBS31_35_67
proportion
0.08
0.00
SAMPLE_SBS31_35_68
proportion
0.15
0.00
preceded by 5'
followed by 3'

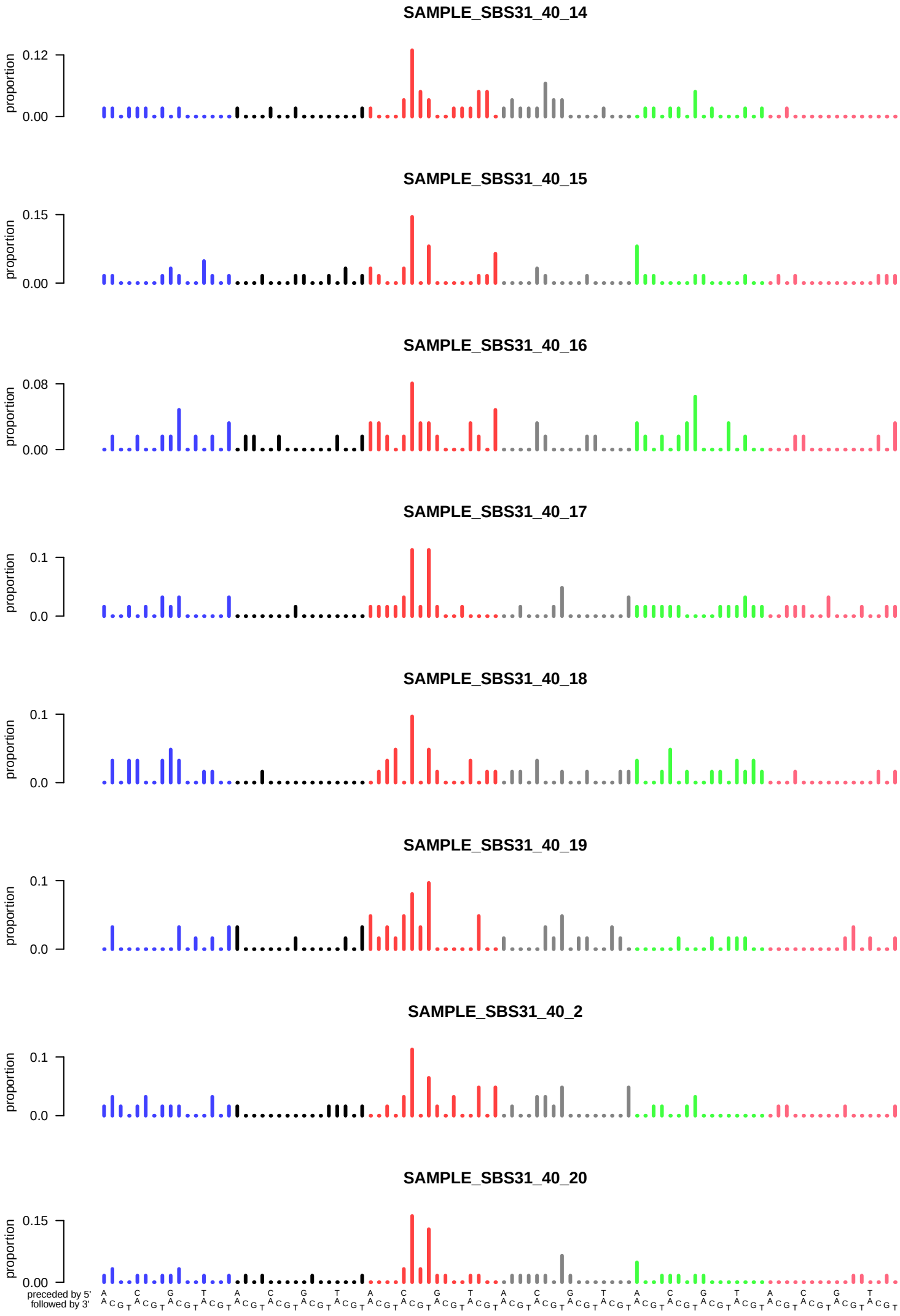

SAMPLE_SBS31_35_69
proportion
0.12
0.00
SAMPLE_SBS31_35_7
proportion
0.08
0.00
SAMPLE_SBS31_35_70
proportion
0.08
0.00
SAMPLE_SBS31_35_71
proportion
0.1
0.0
SAMPLE_SBS31_35_72
proportion
0.08
0.00
SAMPLE_SBS31_35_73
proportion
0.15
0.00
SAMPLE_SBS31_35_74
proportion
0.1
0.0
SAMPLE_SBS31_35_75
proportion
0.12
0.00
preceded by 5'
followed by 3'

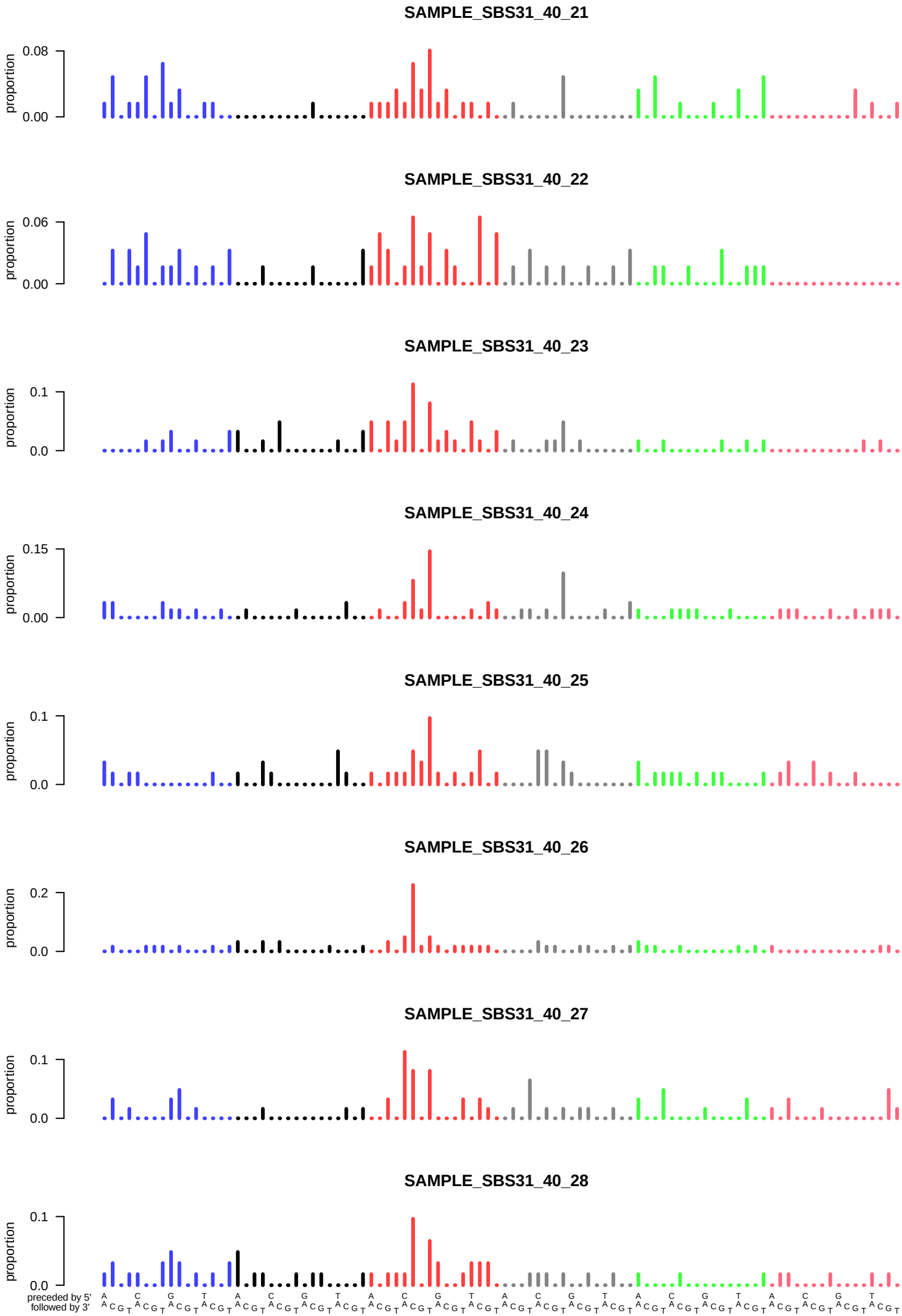

SAMPLE_SBS31_35_76
proportion
0.12
0.00
SAMPLE_SBS31_35_77
proportion
0.1
0.0
SAMPLE_SBS31_35_78
proportion
0.08
0.00
SAMPLE_SBS31_35_79
proportion
0.1
0.0
SAMPLE_SBS31_35_8
proportion
0.1
0.0
SAMPLE_SBS31_35_80
proportion
0.12
0.00
SAMPLE_SBS31_35_81
proportion
0.06
0.00
SAMPLE_SBS31_35_82
proportion
0.15
0.00
preceded by 5'
followed by 3'

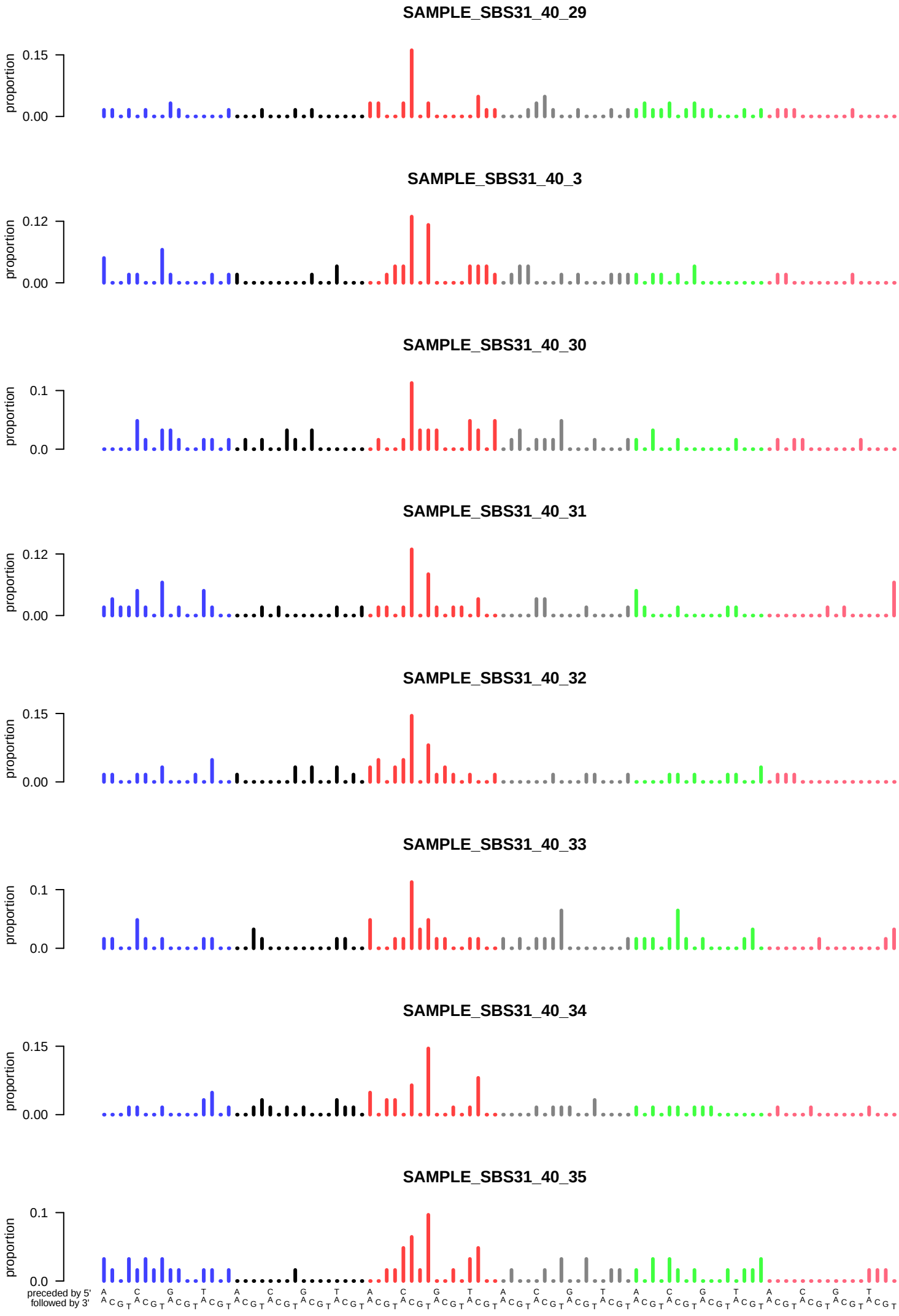

SAMPLE_SBS31_35_83
proportion
0.2
0.0
SAMPLE_SBS31_35_84
proportion
0.12
0.00
SAMPLE_SBS31_35_85
proportion
0.1
0.0
SAMPLE_SBS31_35_86
proportion
0.08
0.00
SAMPLE_SBS31_35_87
proportion
0.1
0.0
SAMPLE_SBS31_35_88
proportion
0.15
0.00
SAMPLE_SBS31_35_89
proportion
0.08
0.00
SAMPLE_SBS31_35_9
proportion
0.1
0.0
preceded by 5'
followed by 3'

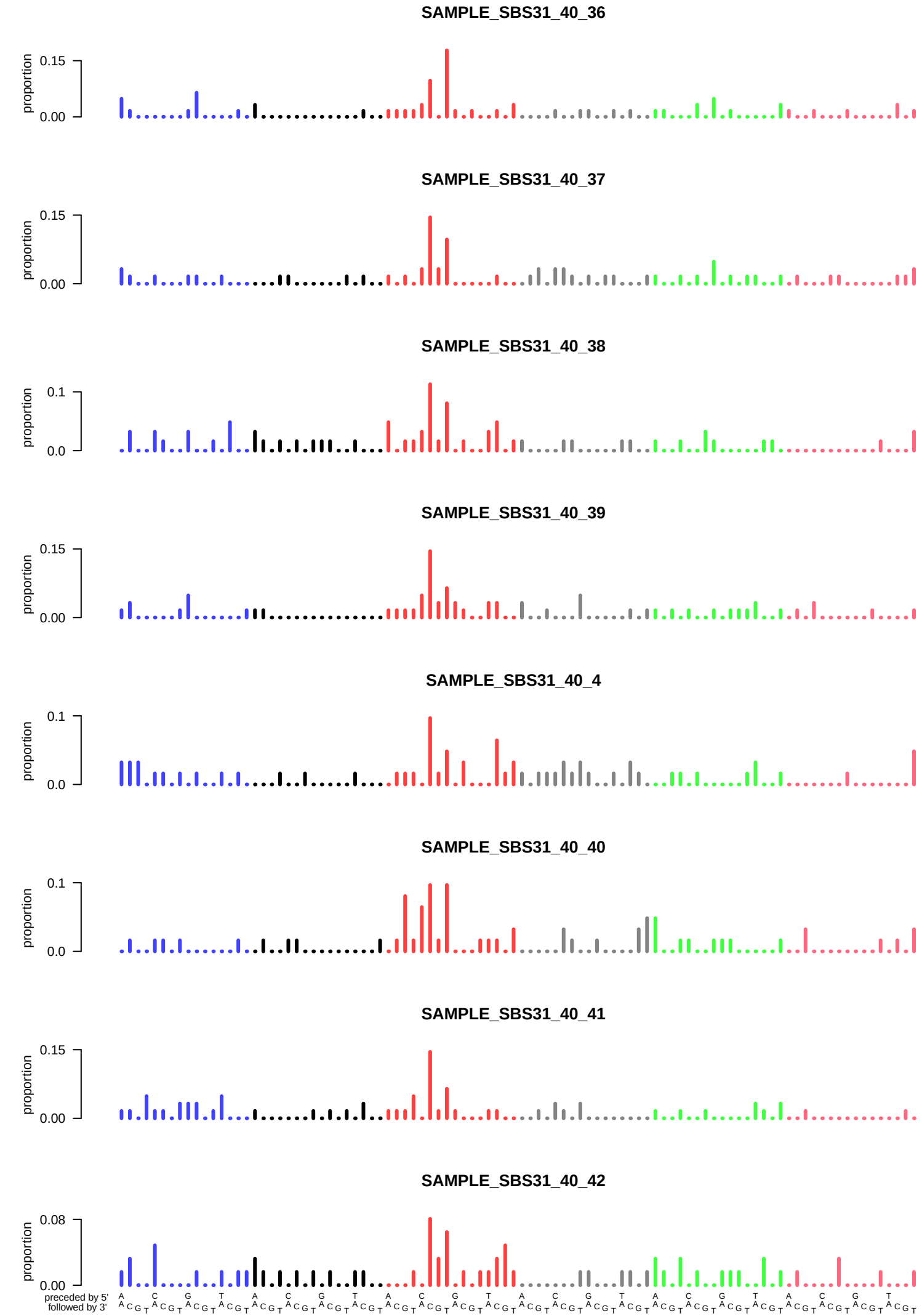

SAMPLE_SBS31_35_90
proportion
0.08
0.00
SAMPLE_SBS31_35_91
proportion
0.1
0.0
SAMPLE_SBS31_35_92
proportion
0.12
0.00
SAMPLE_SBS31_35_93
proportion
0.12
0.00
SAMPLE_SBS31_35_94
proportion
0.12
0.00
SAMPLE_SBS31_35_95
proportion
0.1
0.0
SAMPLE_SBS31_35_96
proportion
0.15
0.00
SAMPLE_SBS31_35_97
proportion
0.1
0.0
preceded by 5'
followed by 3'

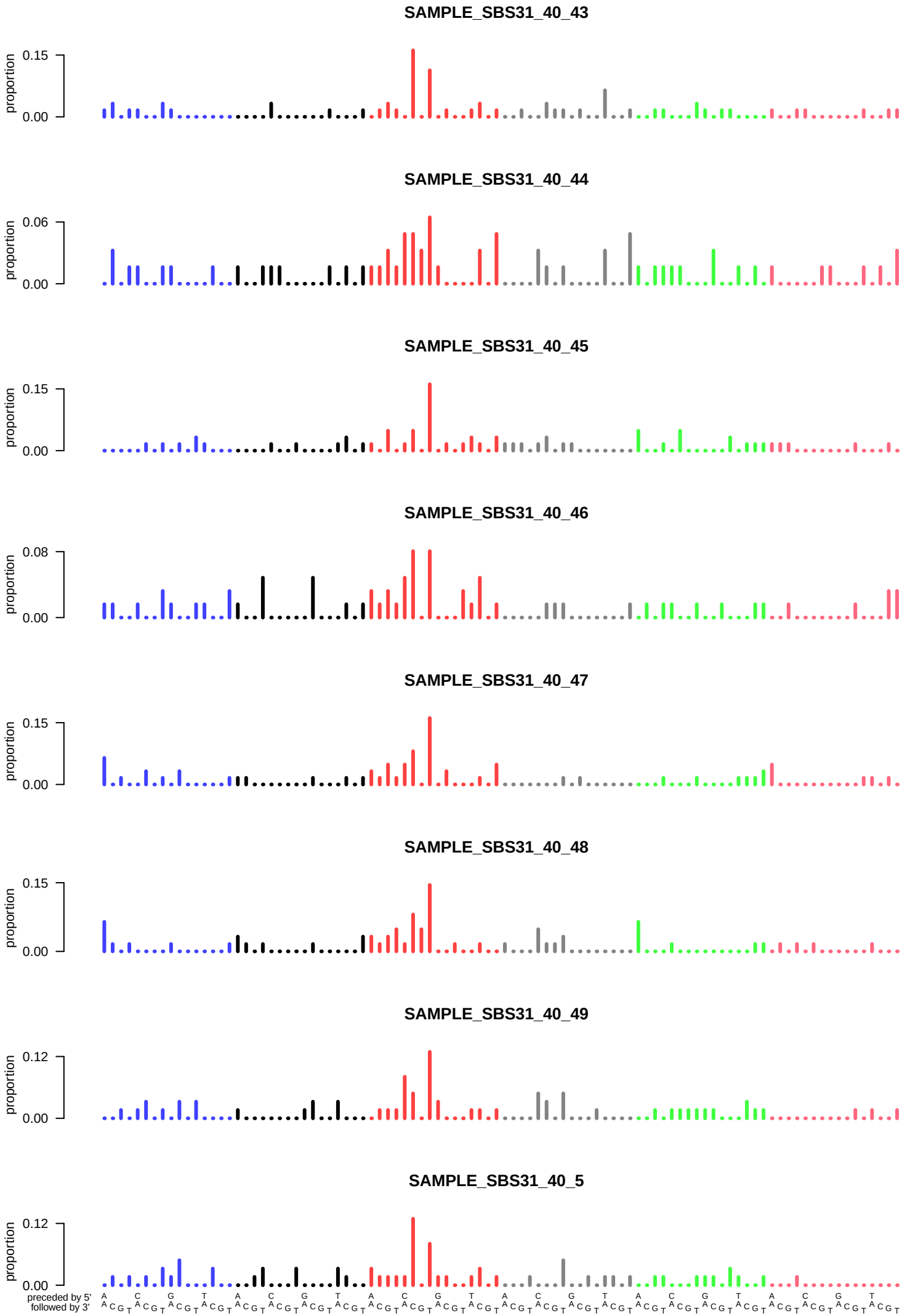

SAMPLE_SBS31_35_98
proportion
0.12
0.00
SAMPLE_SBS31_35_99
proportion
0.15
0.00
SAMPLE_SBS31_40_1
proportion
0.1
0.0
SAMPLE_SBS31_40_10
proportion
0.08
0.00
SAMPLE_SBS31_40_100
proportion
0.12
0.00
SAMPLE_SBS31_40_11
proportion
0.15
0.00
SAMPLE_SBS31_40_12
proportion
0.15
0.00
SAMPLE_SBS31_40_13
proportion
0.06
0.00
preceded by 5'
followed by 3'

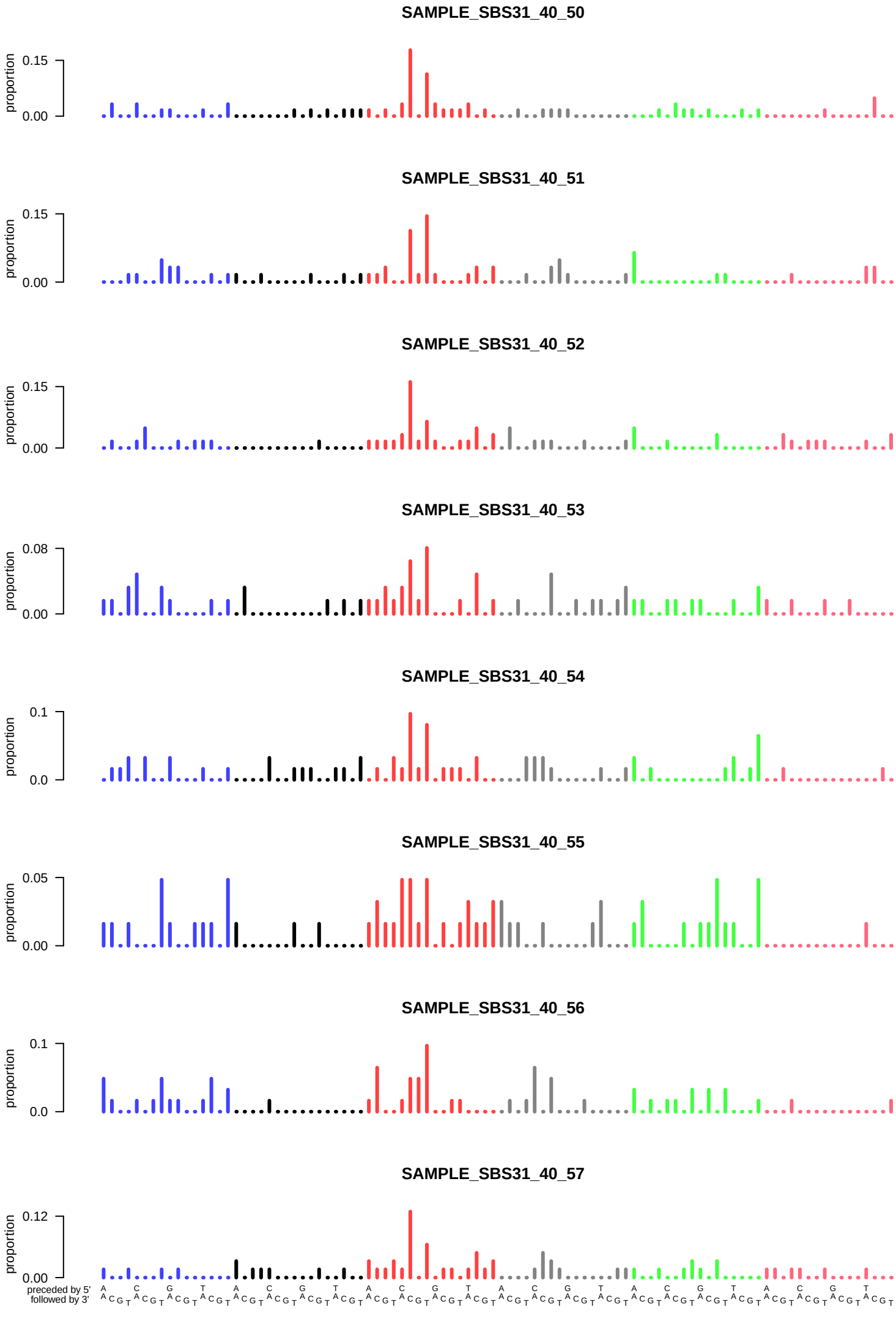

SAMPLE_SBS31_40_14
proportion
0.12
0.00
SAMPLE_SBS31_40_15
proportion
0.15
0.00
SAMPLE_SBS31_40_16
proportion
0.08
0.00
SAMPLE_SBS31_40_17
proportion
0.1
0.0
SAMPLE_SBS31_40_18
proportion
0.1
0.0
SAMPLE_SBS31_40_19
proportion
0.1
0.0
SAMPLE_SBS31_40_2
proportion
0.1
0.0
SAMPLE_SBS31_40_20
proportion
0.15
0.00
preceded by 5'
followed by 3'

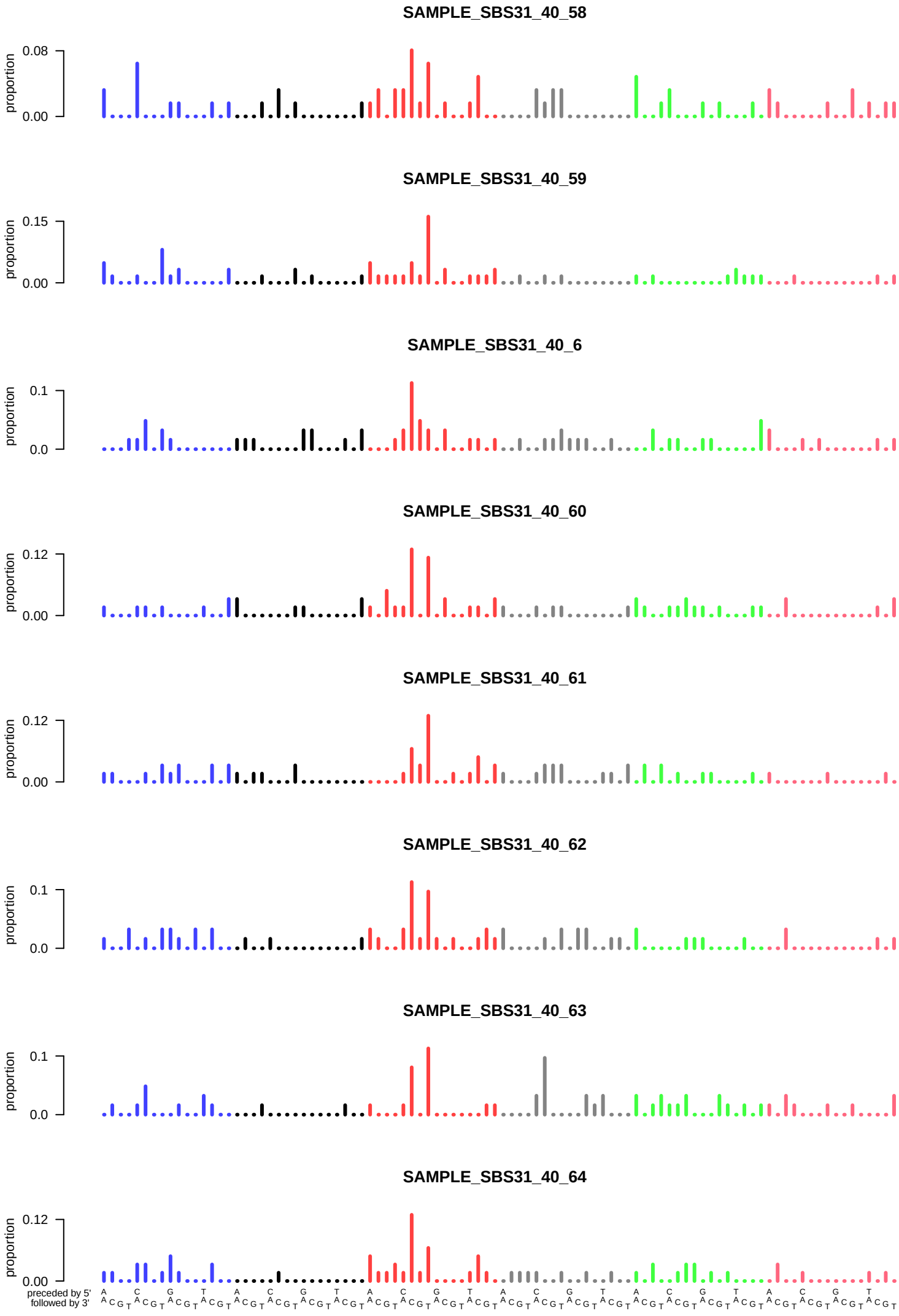

SAMPLE_SBS31_40_21
proportion
0.08
0.00
SAMPLE_SBS31_40_22
proportion
0.06
0.00
SAMPLE_SBS31_40_23
proportion
0.1
0.0
SAMPLE_SBS31_40_24
proportion
0.15
0.00
SAMPLE_SBS31_40_25
proportion
0.1
0.0
SAMPLE_SBS31_40_26
proportion
0.2
0.0
SAMPLE_SBS31_40_27
proportion
0.1
0.0
SAMPLE_SBS31_40_28
proportion
0.1
0.0
preceded by 5'
followed by 3'

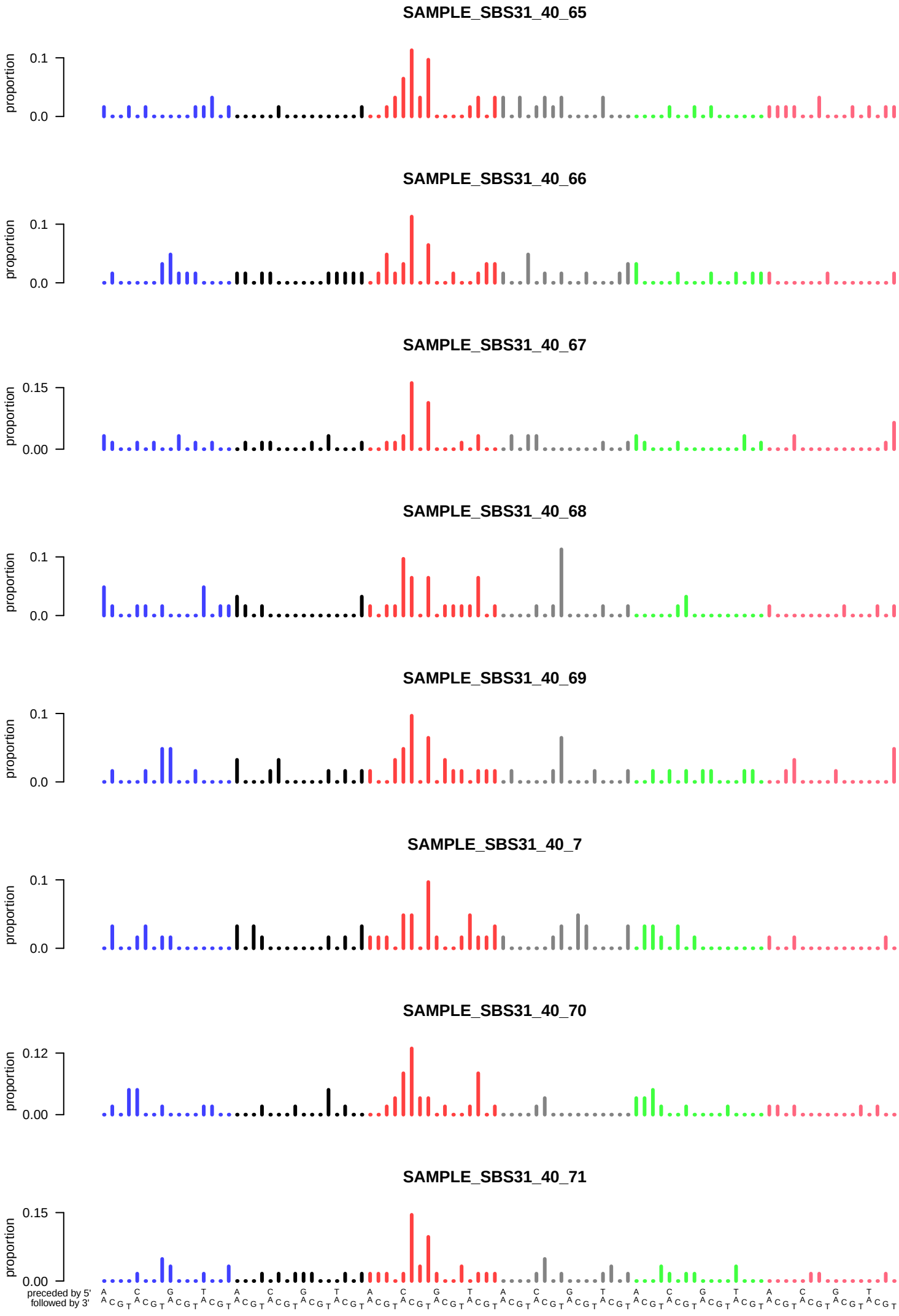

SAMPLE_SBS31_40_29
proportion
0.15
0.00
SAMPLE_SBS31_40_3
proportion
0.12
0.00
SAMPLE_SBS31_40_30
proportion
0.1
0.0
SAMPLE_SBS31_40_31
proportion
0.12
0.00
SAMPLE_SBS31_40_32
proportion
0.15
0.00
SAMPLE_SBS31_40_33
proportion
0.1
0.0
SAMPLE_SBS31_40_34
proportion
0.15
0.00
SAMPLE_SBS31_40_35
proportion
0.1
0.0
preceded by 5'
followed by 3'

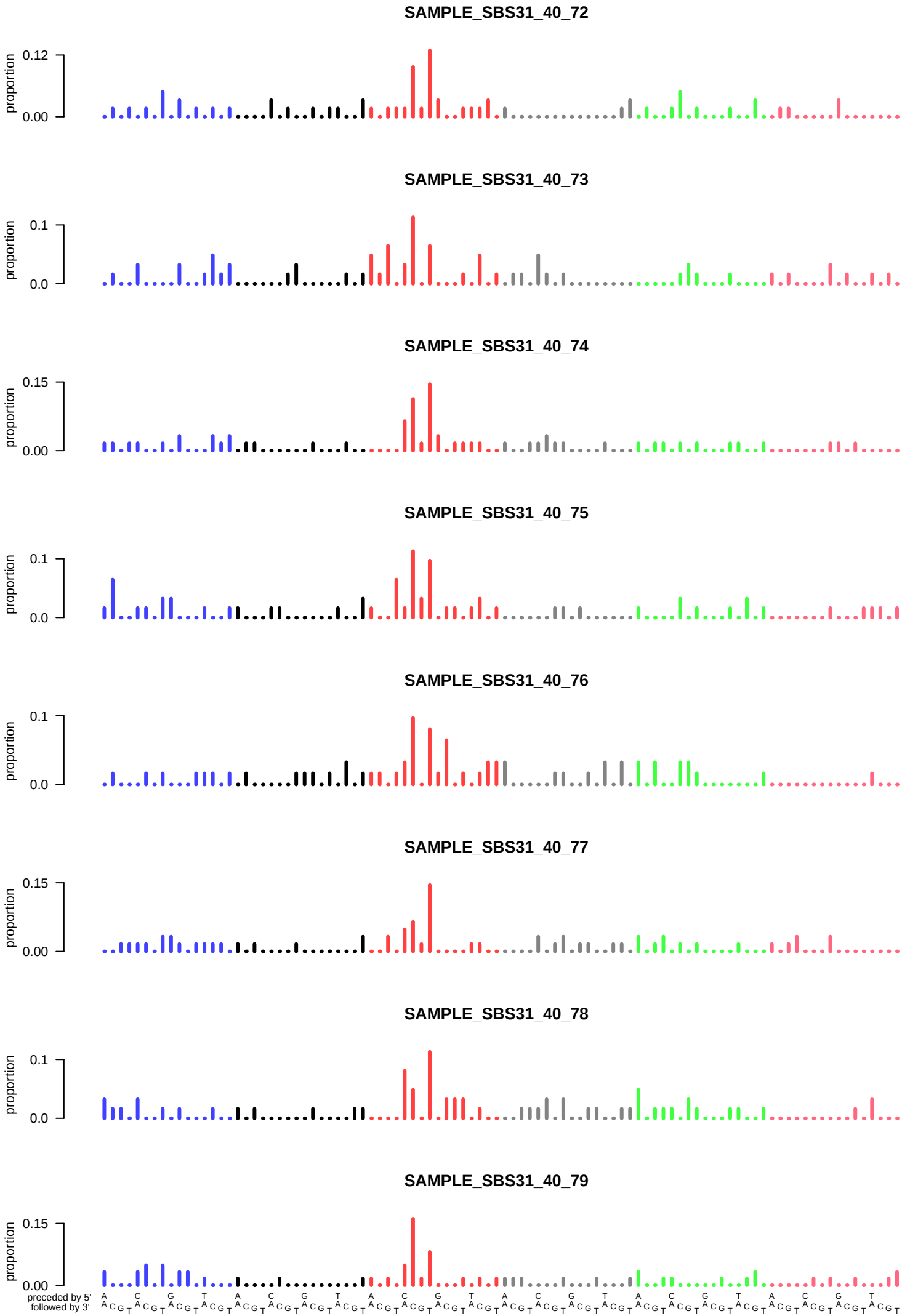

SAMPLE_SBS31_40_36
proportion
0.15
0.00
SAMPLE_SBS31_40_37
proportion
0.15
0.00
SAMPLE_SBS31_40_38
proportion
0.1
0.0
SAMPLE_SBS31_40_39
proportion
0.15
0.00
SAMPLE_SBS31_40_4
proportion
0.1
0.0
SAMPLE_SBS31_40_40
proportion
0.1
0.0
SAMPLE_SBS31_40_41
proportion
0.15
0.00
SAMPLE_SBS31_40_42
proportion
0.08
0.00
preceded by 5'
followed by 3'

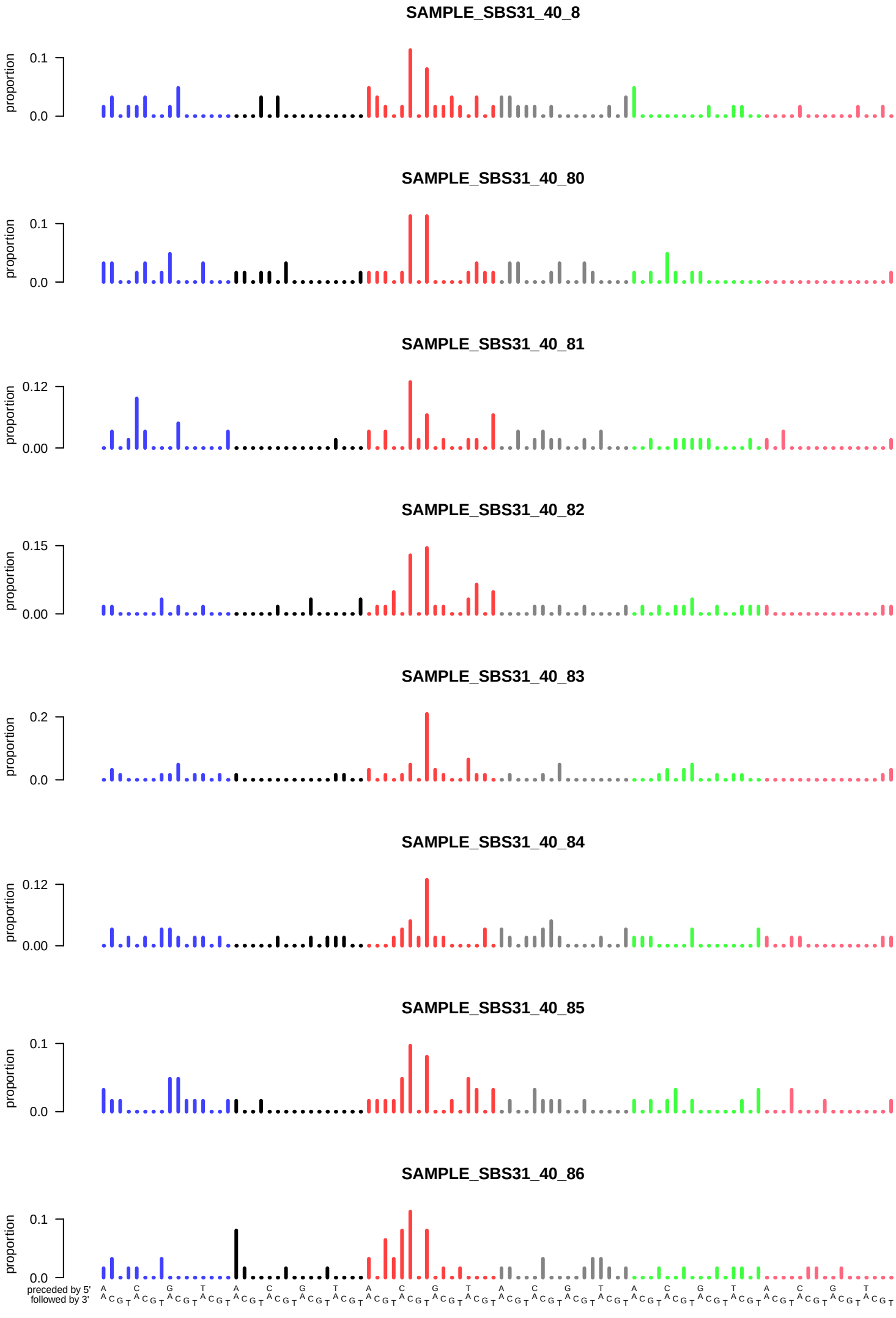

SAMPLE_SBS31_40_43
proportion
0.15
0.00
SAMPLE_SBS31_40_44
proportion
0.06
0.00
SAMPLE_SBS31_40_45
proportion
0.15
0.00
SAMPLE_SBS31_40_46
proportion
0.08
0.00
SAMPLE_SBS31_40_47
proportion
0.15
0.00
SAMPLE_SBS31_40_48
proportion
0.15
0.00
SAMPLE_SBS31_40_49
proportion
0.12
0.00
SAMPLE_SBS31_40_5
proportion
0.12
0.00
preceded by 5'
followed by 3'

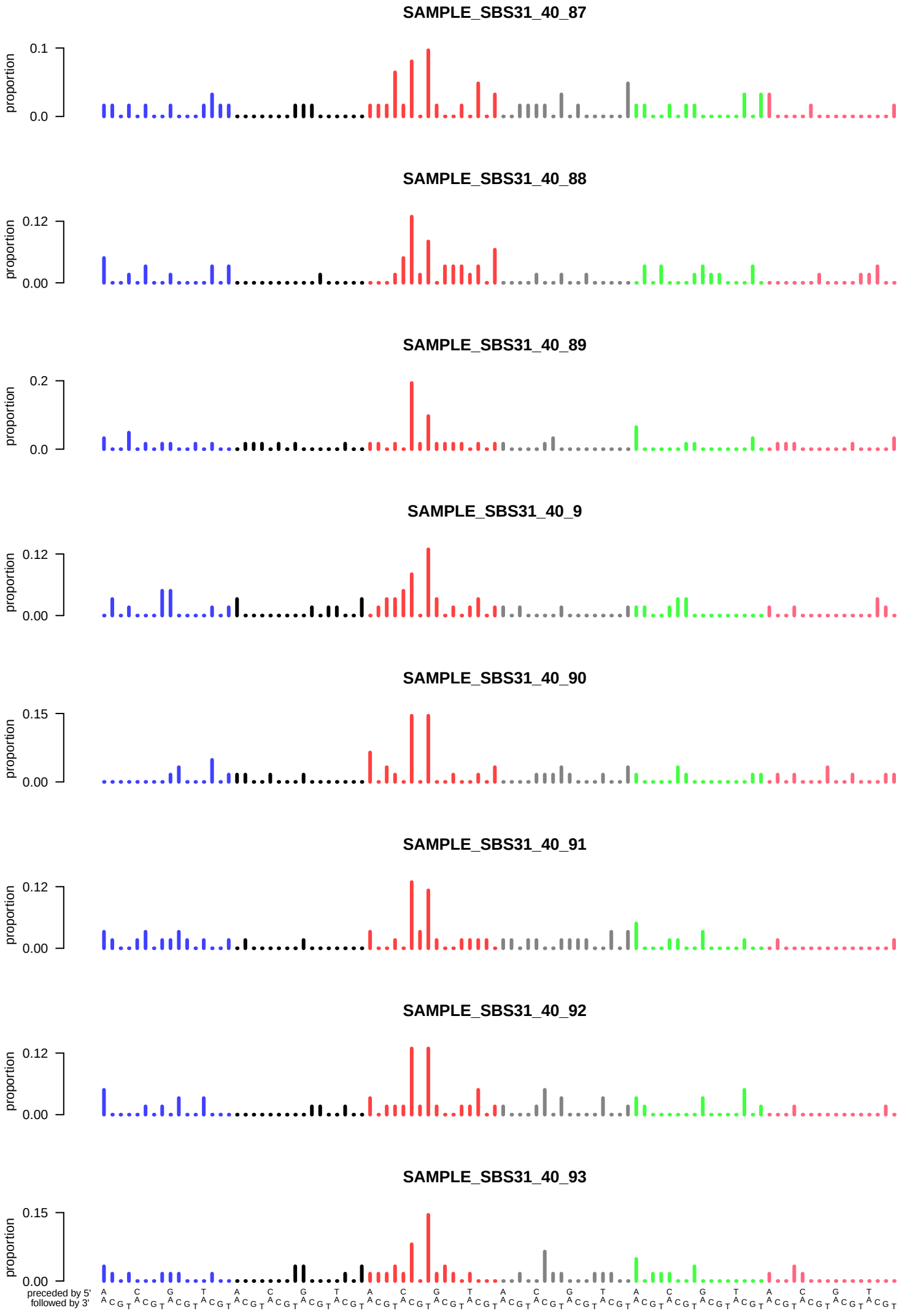

SAMPLE_SBS31_40_50
proportion
0.15
0.00
SAMPLE_SBS31_40_51
proportion
0.15
0.00
SAMPLE_SBS31_40_52
proportion
0.15
0.00
SAMPLE_SBS31_40_53
proportion
0.08
0.00
SAMPLE_SBS31_40_54
proportion
0.1
0.0
SAMPLE_SBS31_40_55
proportion
0.05
0.00
SAMPLE_SBS31_40_56
proportion
0.1
0.0
SAMPLE_SBS31_40_57
proportion
0.12
0.00
preceded by 5'
followed by 3'
A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T

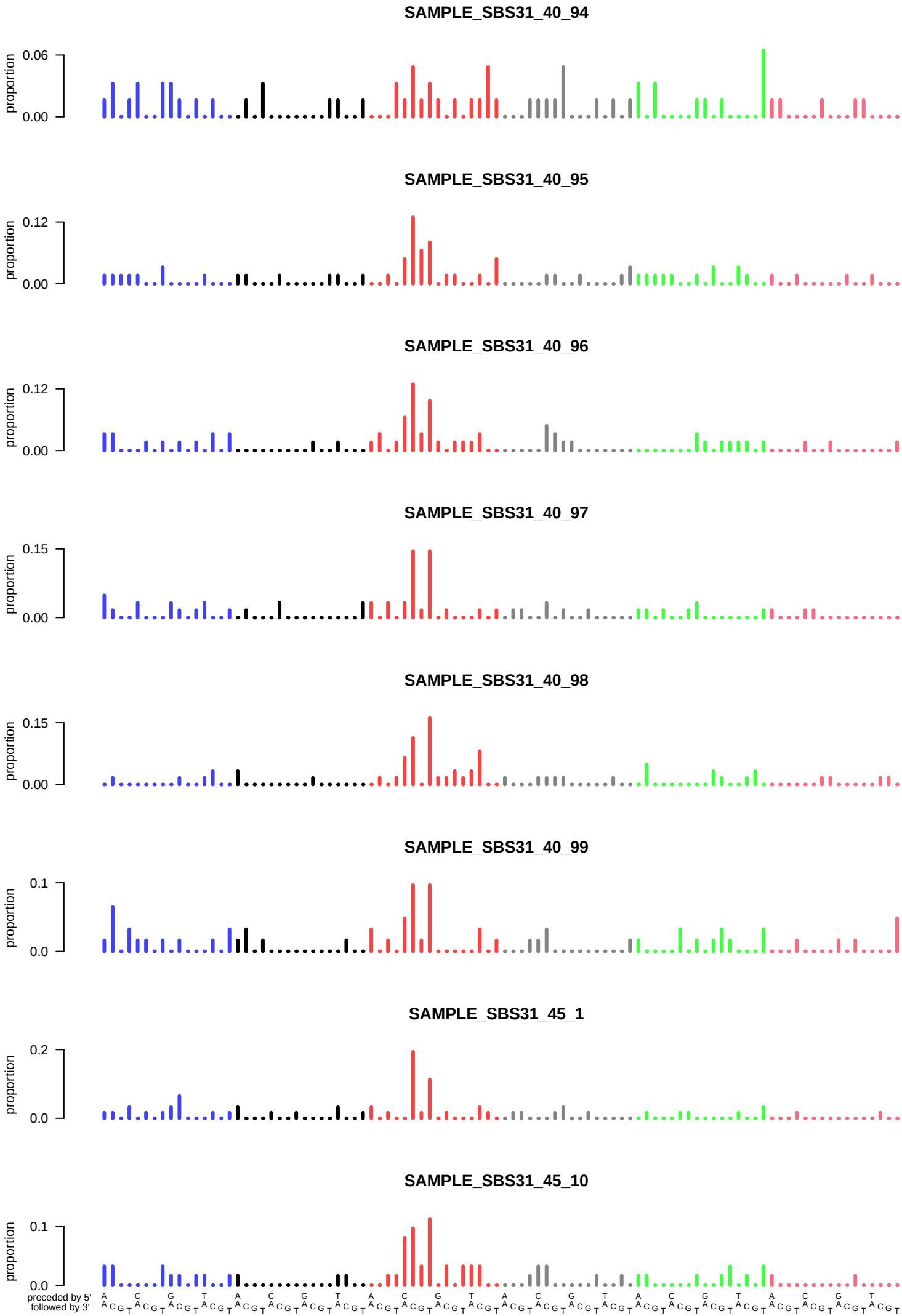

SAMPLE_SBS31_40_58
proportion
0.08
0.00
SAMPLE_SBS31_40_59
proportion
0.15
0.00
SAMPLE_SBS31_40_6
proportion
0.1
0.0
SAMPLE_SBS31_40_60
proportion
0.12
0.00
SAMPLE_SBS31_40_61
proportion
0.12
0.00
SAMPLE_SBS31_40_62
proportion
0.1
0.0
SAMPLE_SBS31_40_63
proportion
0.1
0.0
SAMPLE_SBS31_40_64
proportion
0.12
0.00
preceded by 5'
followed by 3'

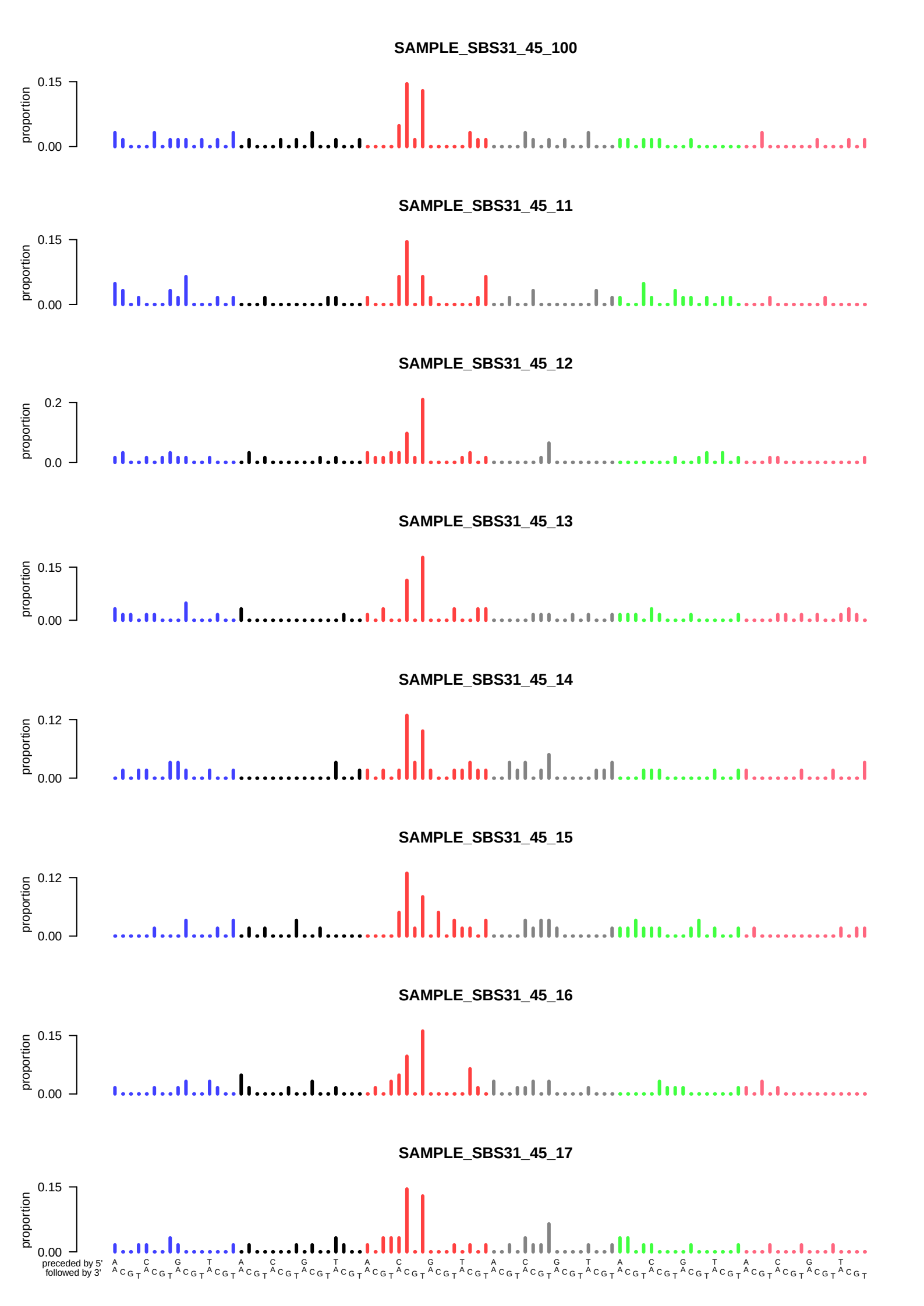

SAMPLE_SBS31_40_65
proportion
0.1
0.0
SAMPLE_SBS31_40_66
proportion
0.1
0.0
SAMPLE_SBS31_40_67
proportion
0.15
0.00
SAMPLE_SBS31_40_68
proportion
0.1
0.0
SAMPLE_SBS31_40_69
proportion
0.1
0.0
SAMPLE_SBS31_40_7
proportion
0.1
0.0
SAMPLE_SBS31_40_70
proportion
0.12
0.00
SAMPLE_SBS31_40_71
proportion
0.15
0.00
preceded by 5'
followed by 3'

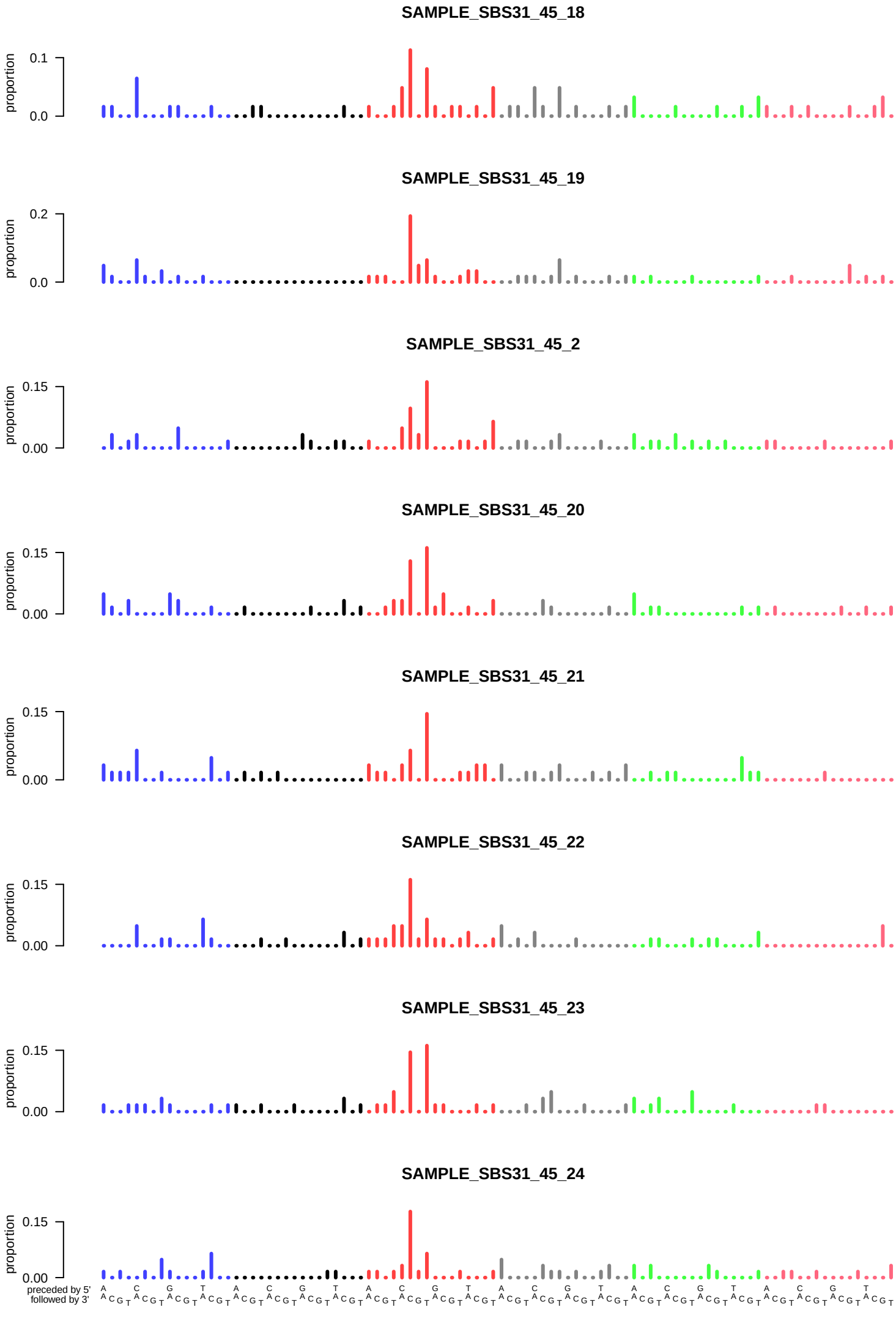

SAMPLE_SBS31_40_72
proportion
0.12
0.00
SAMPLE_SBS31_40_73
proportion
0.1
0.0
SAMPLE_SBS31_40_74
proportion
0.15
0.00
SAMPLE_SBS31_40_75
proportion
0.1
0.0
SAMPLE_SBS31_40_76
proportion
0.1
0.0
SAMPLE_SBS31_40_77
proportion
0.15
0.00
SAMPLE_SBS31_40_78
proportion
0.1
0.0
SAMPLE_SBS31_40_79
proportion
0.15
0.00
preceded by 5'
followed by 3'

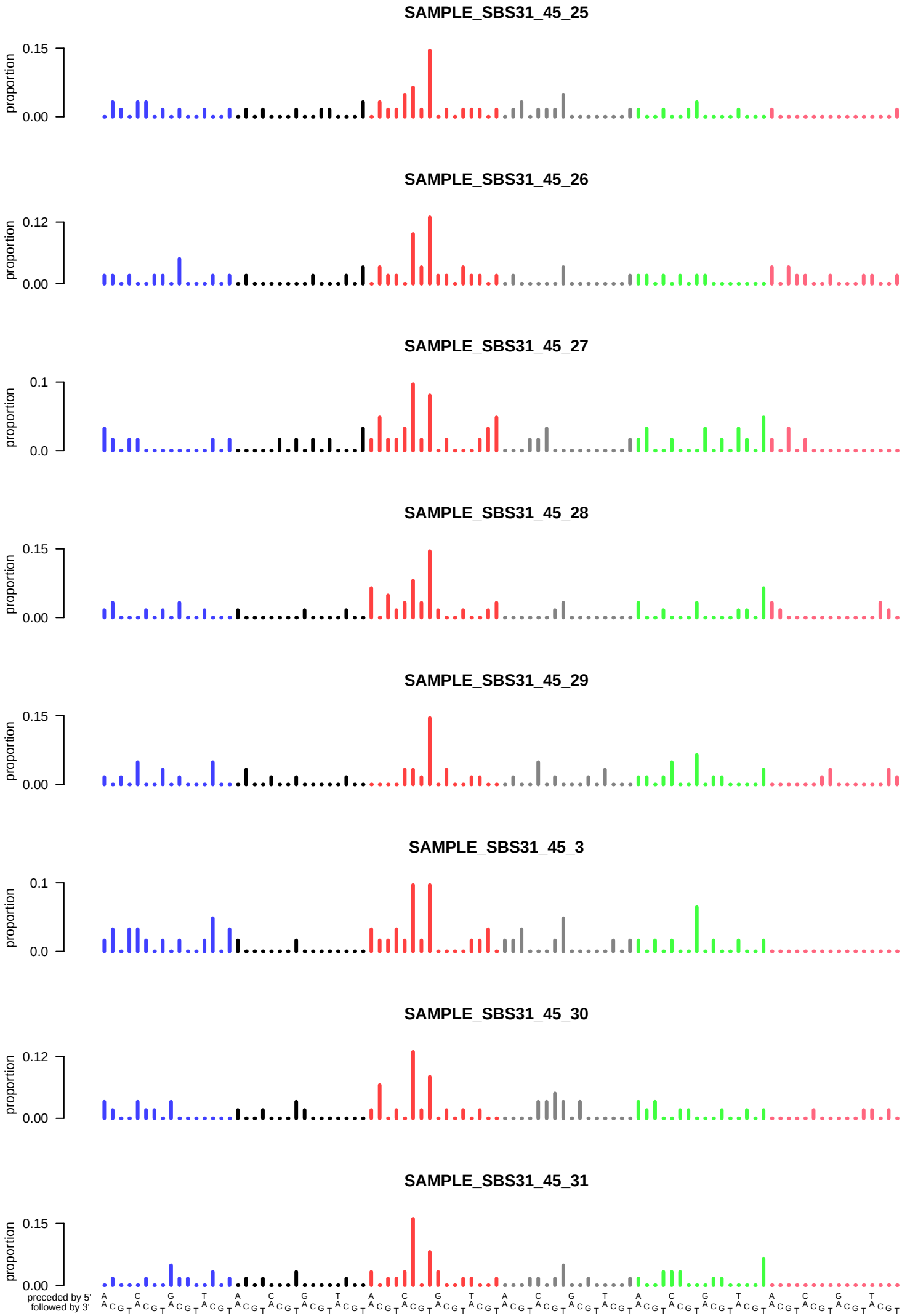

SAMPLE_SBS31_40_8
proportion
0.1
0.0
SAMPLE_SBS31_40_80
proportion
0.1
0.0
SAMPLE_SBS31_40_81
proportion
0.12
0.00
SAMPLE_SBS31_40_82
proportion
0.15
0.00
SAMPLE_SBS31_40_83
proportion
0.2
0.0
SAMPLE_SBS31_40_84
proportion
0.12
0.00
SAMPLE_SBS31_40_85
proportion
0.1
0.0
SAMPLE_SBS31_40_86
proportion
0.1
0.0
preceded by 5'
followed by 3'

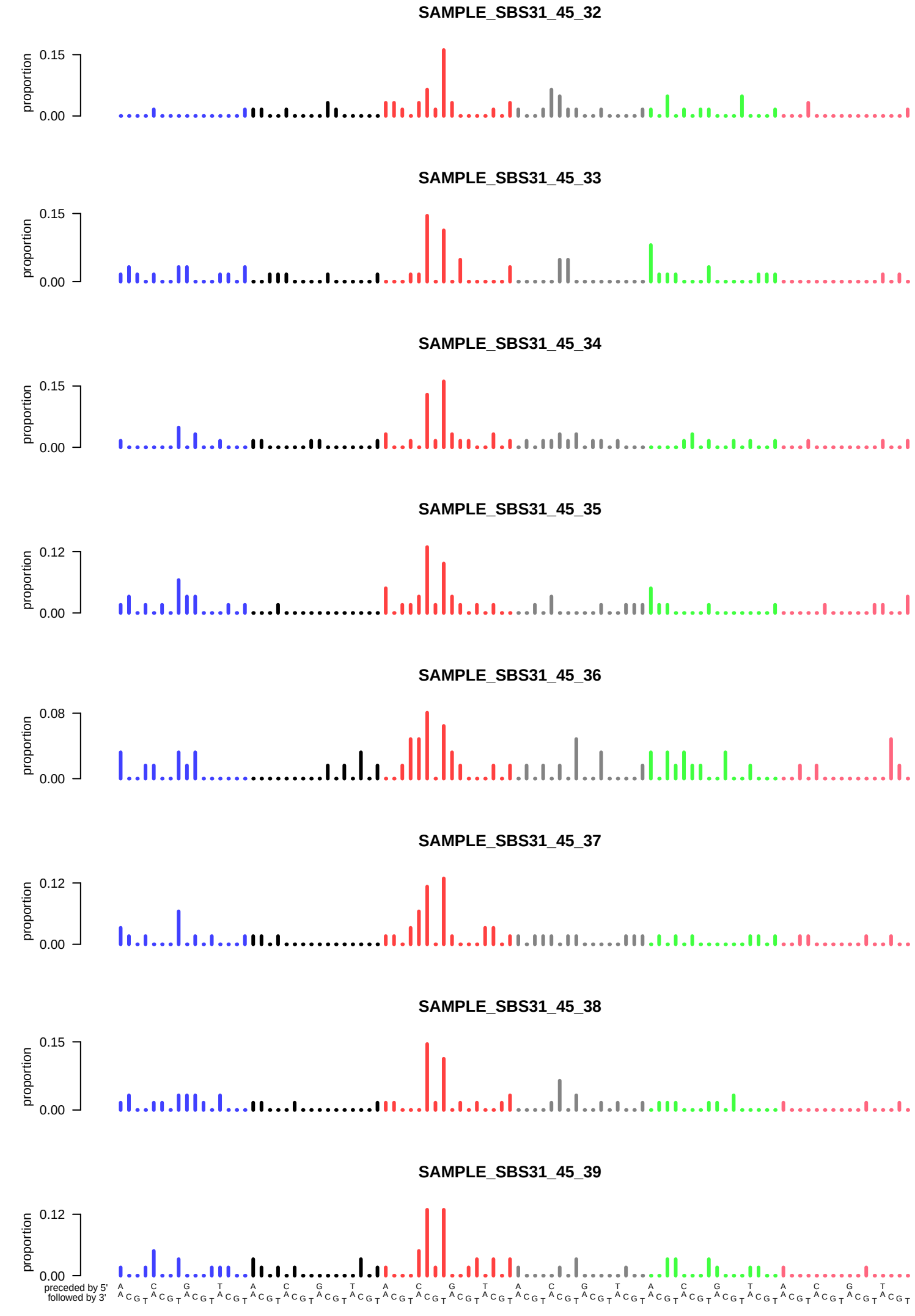

SAMPLE_SBS31_40_87
proportion
0.1
0.0
SAMPLE_SBS31_40_88
proportion
0.12
0.00
SAMPLE_SBS31_40_89
proportion
0.2
0.0
SAMPLE_SBS31_40_9
proportion
0.12
0.00
SAMPLE_SBS31_40_90
proportion
0.15
0.00
SAMPLE_SBS31_40_91
proportion
0.12
0.00
SAMPLE_SBS31_40_92
proportion
0.12
0.00
SAMPLE_SBS31_40_93
proportion
0.15
0.00
preceded by 5'
followed by 3'

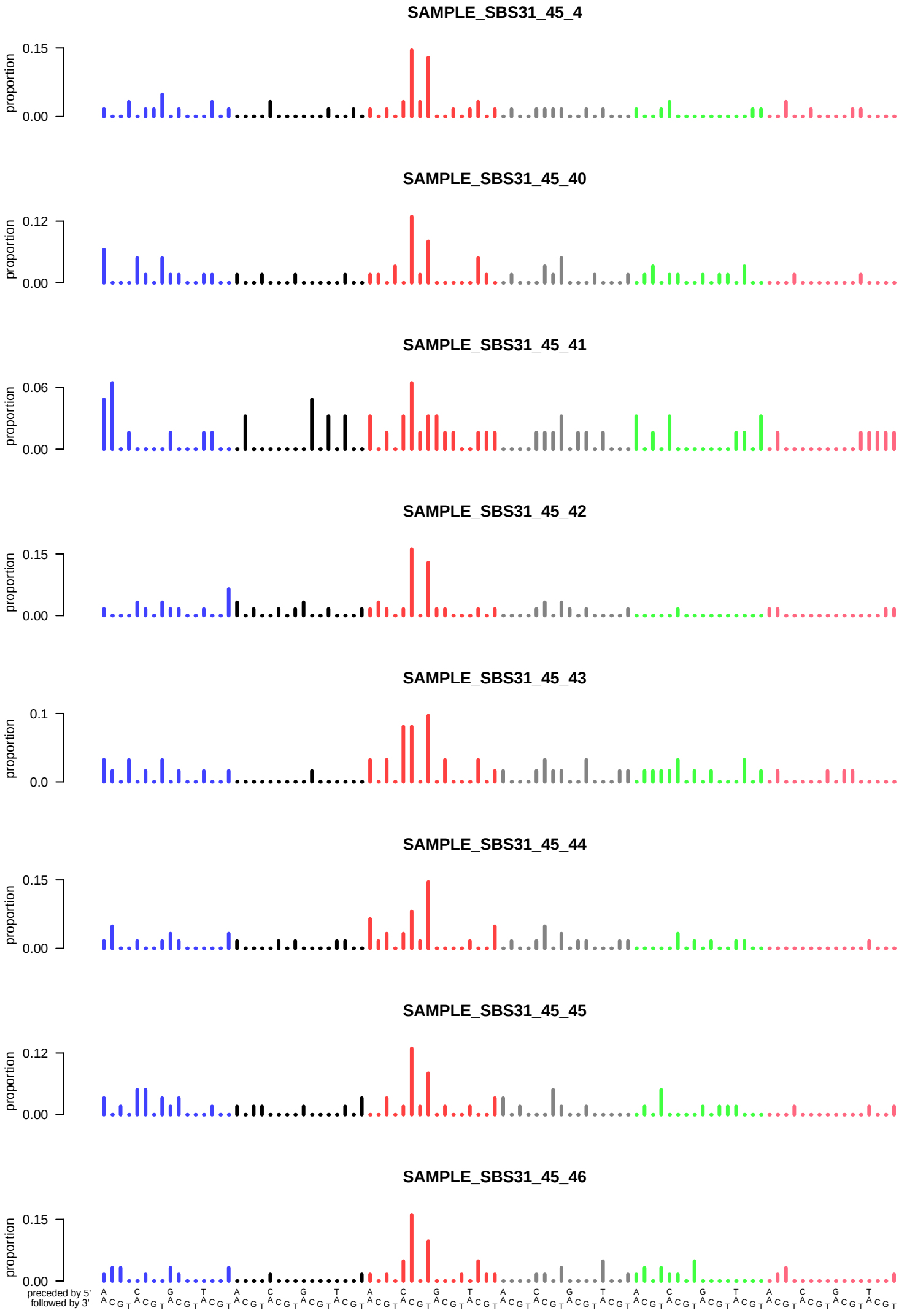

SAMPLE_SBS31_40_94
proportion
0.06
0.00
SAMPLE_SBS31_40_95
proportion
0.12
0.00
SAMPLE_SBS31_40_96
proportion
0.12
0.00
SAMPLE_SBS31_40_97
proportion
0.15
0.00
SAMPLE_SBS31_40_98
proportion
0.15
0.00
SAMPLE_SBS31_40_99
proportion
0.1
0.0
SAMPLE_SBS31_45_1
proportion
0.2
0.0
SAMPLE_SBS31_45_10
proportion
0.1
0.0
preceded by 5'
followed by 3'

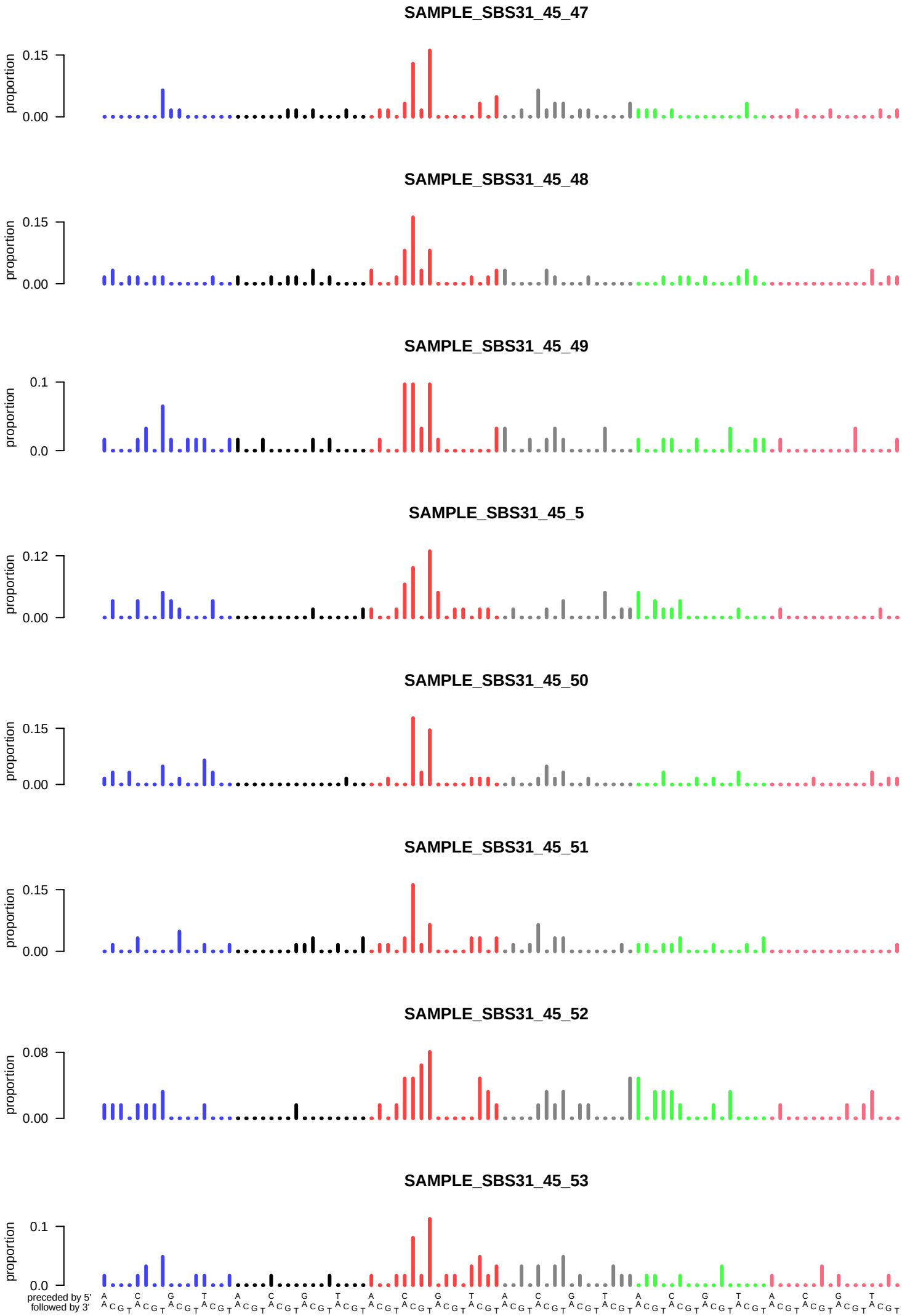

SAMPLE_SBS31_45_100
SAMPLE_SBS31_45_11
SAMPLE_SBS31_45_12
SAMPLE_SBS31_45_13
SAMPLE_SBS31_45_14
SAMPLE_SBS31_45_15
SAMPLE_SBS31_45_16
SAMPLE_SBS31_45_17
proportion
0.15
0.00
0.2
0.12
preceded by 5'
followed by 3'

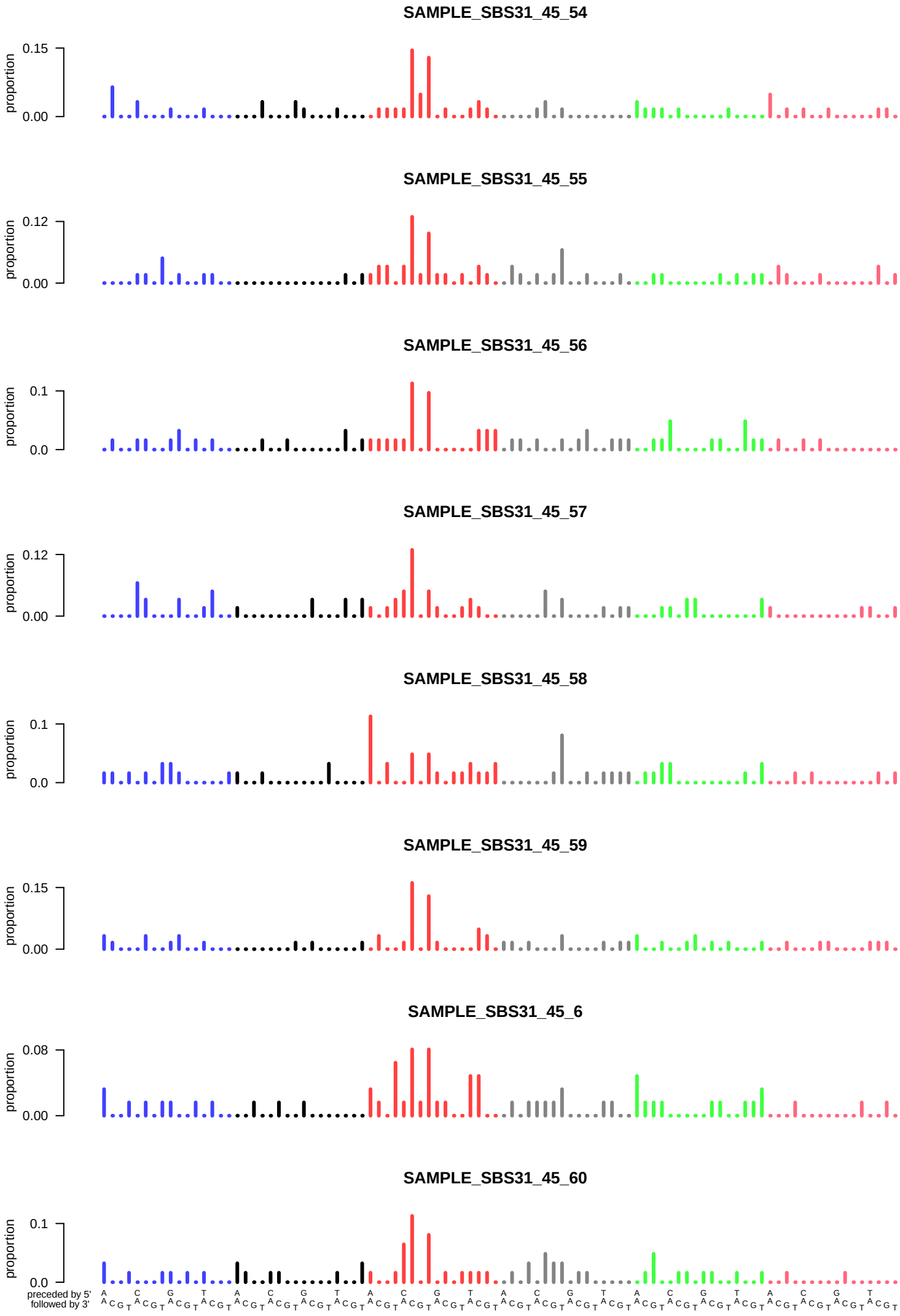

SAMPLE_SBS31_45_18
proportion
0.1
0.0
SAMPLE_SBS31_45_19
proportion
0.2
0.0
SAMPLE_SBS31_45_2
proportion
0.15
0.00
SAMPLE_SBS31_45_20
proportion
0.15
0.00
SAMPLE_SBS31_45_21
proportion
0.15
0.00
SAMPLE_SBS31_45_22
proportion
0.15
0.00
SAMPLE_SBS31_45_23
proportion
0.15
0.00
SAMPLE_SBS31_45_24
proportion
0.15
0.00
preceded by 5'
followed by 3'

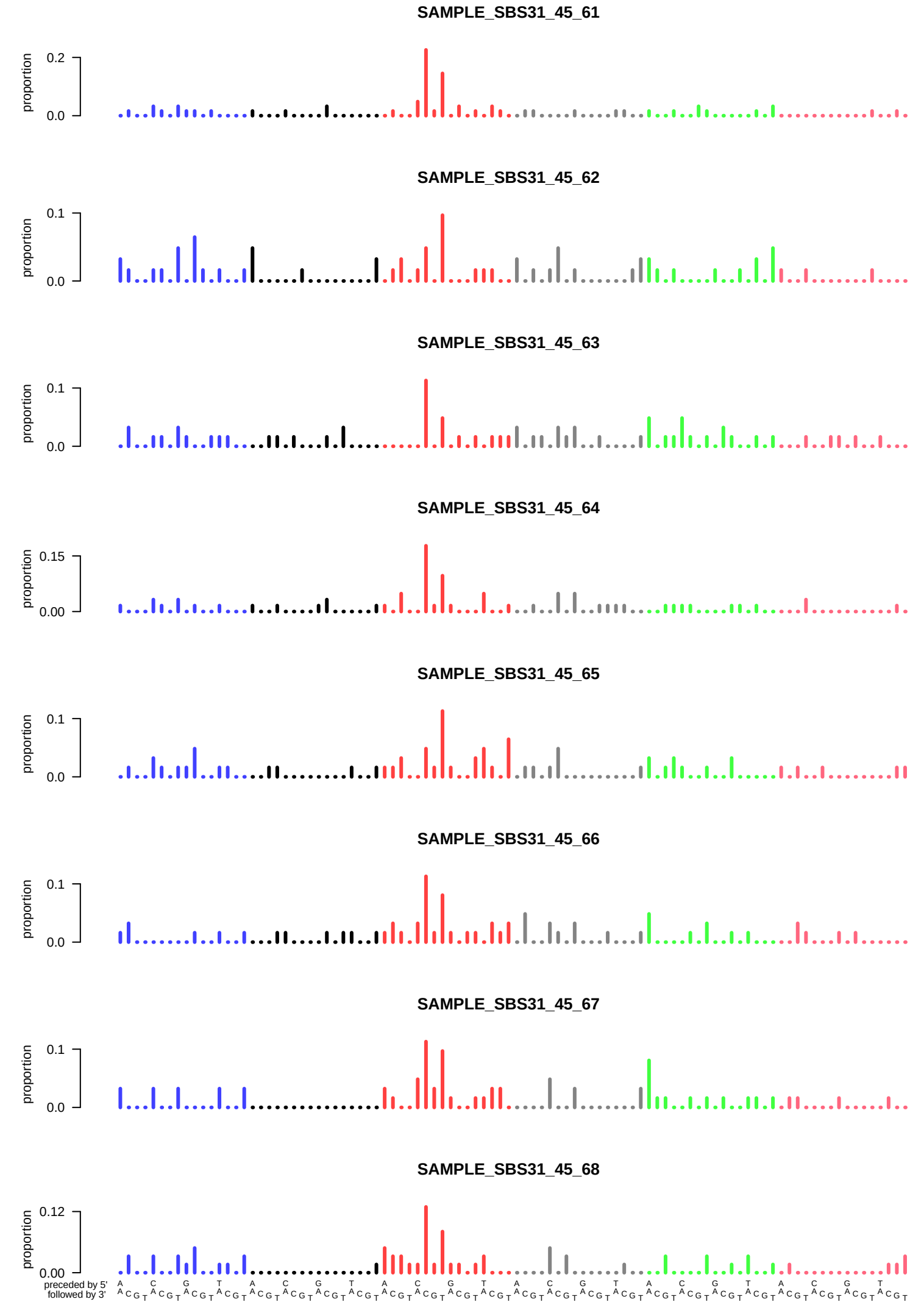

SAMPLE_SBS31_45_25
proportion
0.15
0.00
SAMPLE_SBS31_45_26
proportion
0.12
0.00
SAMPLE_SBS31_45_27
proportion
0.1
0.0
SAMPLE_SBS31_45_28
proportion
0.15
0.00
SAMPLE_SBS31_45_29
proportion
0.15
0.00
SAMPLE_SBS31_45_3
proportion
0.1
0.0
SAMPLE_SBS31_45_30
proportion
0.12
0.00
SAMPLE_SBS31_45_31
proportion
0.15
0.00
preceded by 5'
followed by 3'

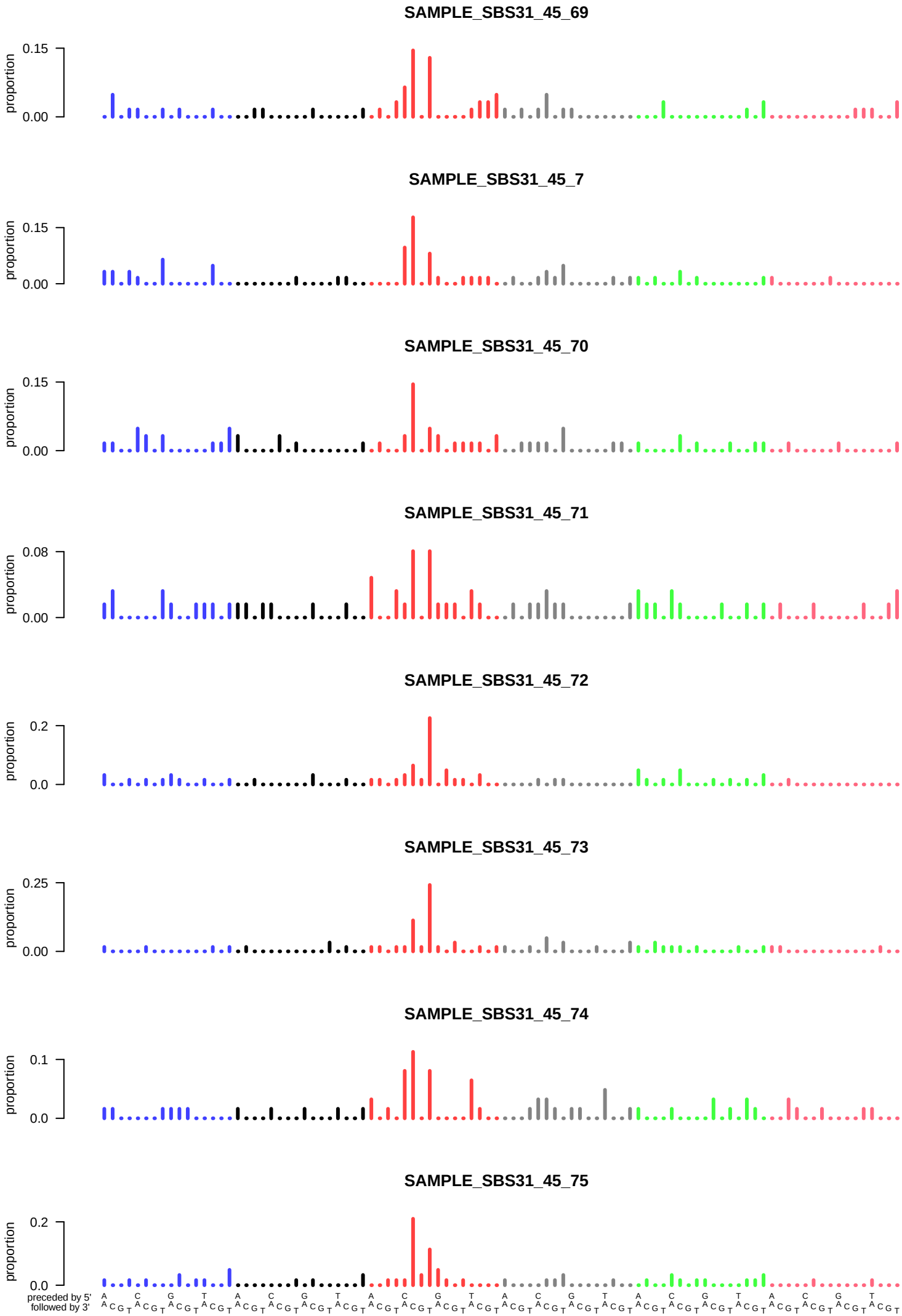

SAMPLE_SBS31_45_32
proportion
0.15
0.00
SAMPLE_SBS31_45_33
proportion
0.15
0.00
SAMPLE_SBS31_45_34
proportion
0.15
0.00
SAMPLE_SBS31_45_35
proportion
0.12
0.00
SAMPLE_SBS31_45_36
proportion
0.08
0.00
SAMPLE_SBS31_45_37
proportion
0.12
0.00
SAMPLE_SBS31_45_38
proportion
0.15
0.00
SAMPLE_SBS31_45_39
proportion
0.12
0.00
preceded by 5'
followed by 3'

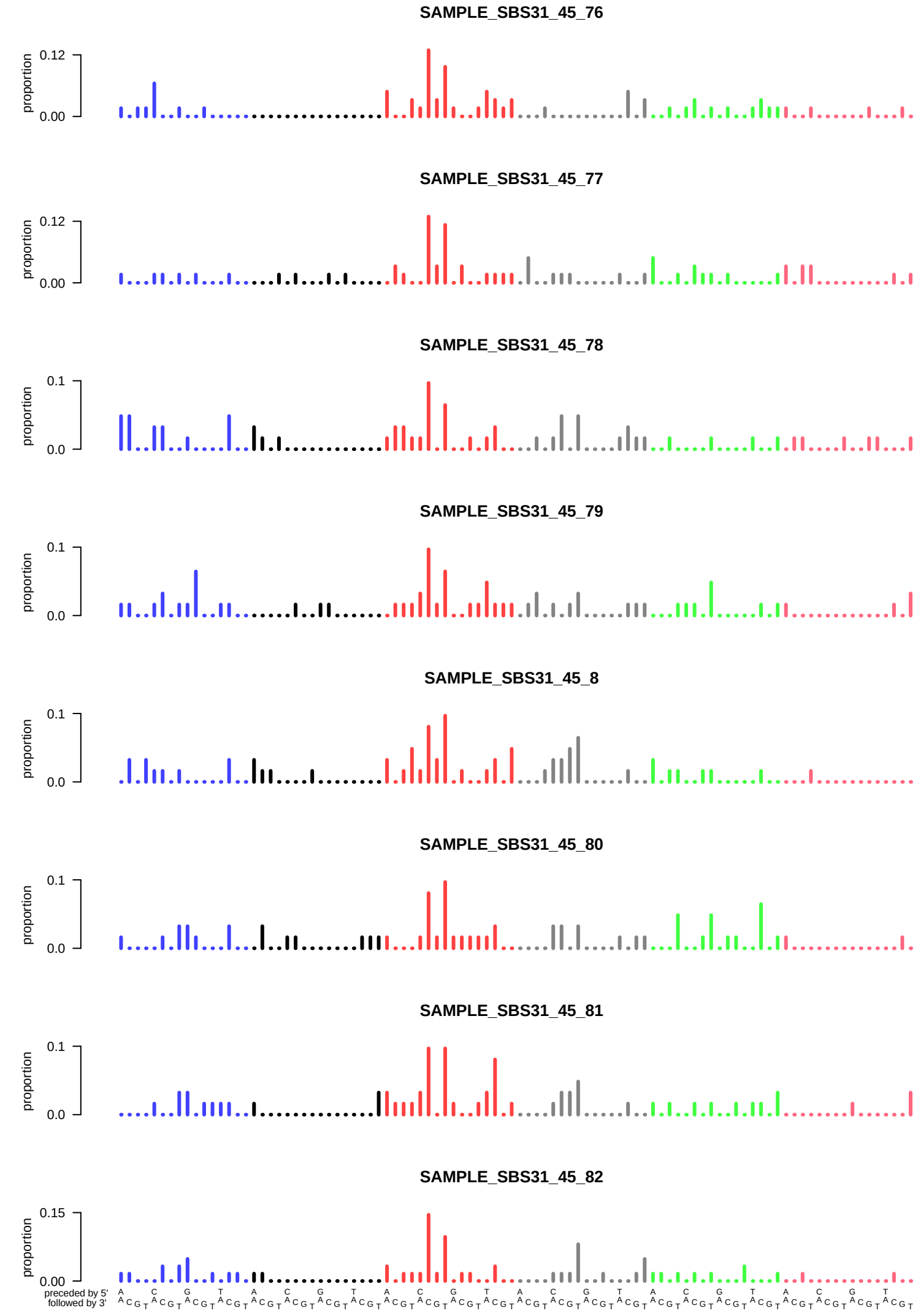

SAMPLE_SBS31_45_4
proportion
0.15
0.00
SAMPLE_SBS31_45_40
proportion
0.12
0.00
SAMPLE_SBS31_45_41
proportion
0.06
0.00
SAMPLE_SBS31_45_42
proportion
0.15
0.00
SAMPLE_SBS31_45_43
proportion
0.1
0.0
SAMPLE_SBS31_45_44
proportion
0.15
0.00
SAMPLE_SBS31_45_45
proportion
0.12
0.00
SAMPLE_SBS31_45_46
proportion
0.15
0.00
preceded by 5'
followed by 3'

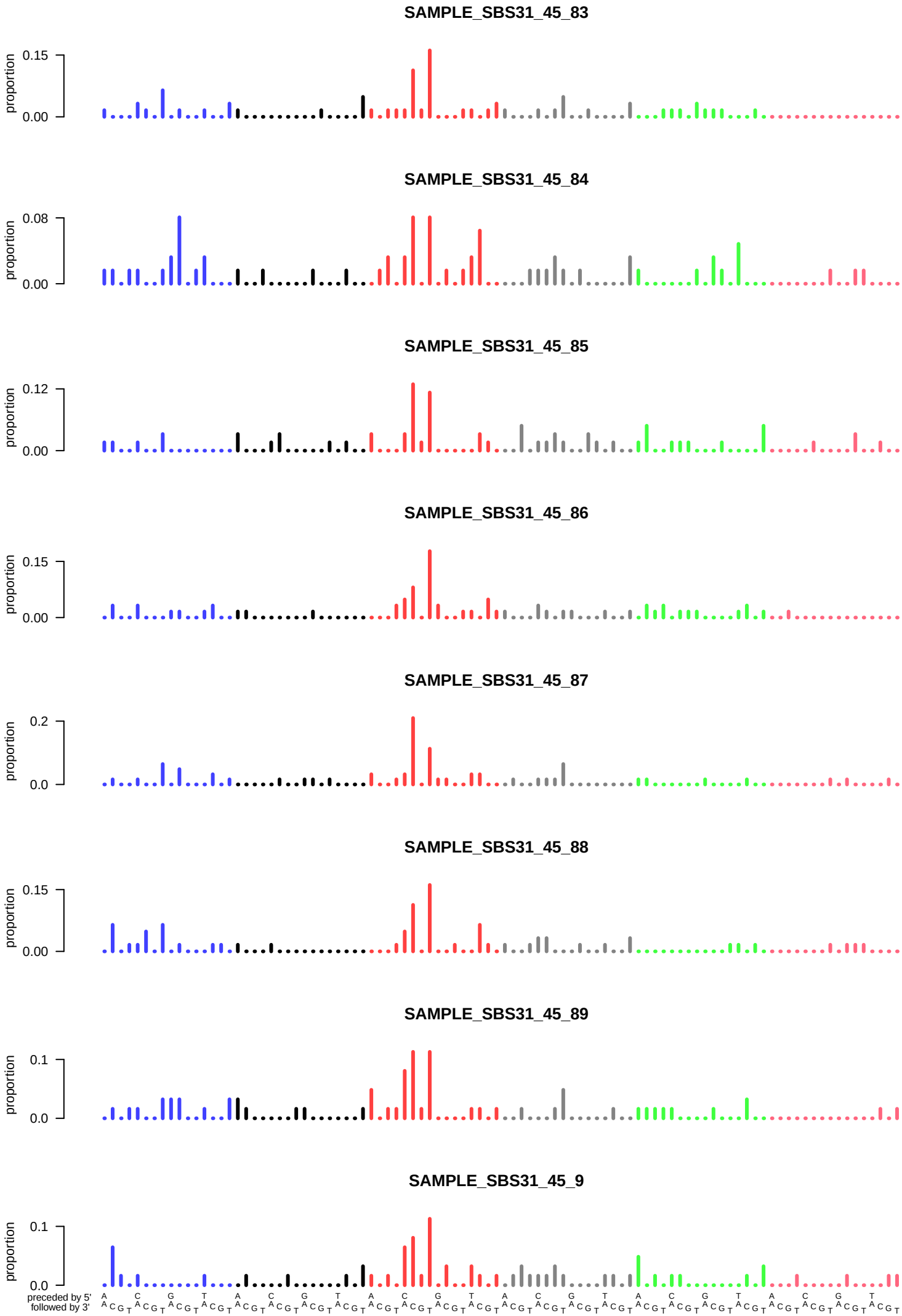

SAMPLE_SBS31_45_47
proportion
0.15
0.00
SAMPLE_SBS31_45_48
proportion
0.15
0.00
SAMPLE_SBS31_45_49
proportion
0.1
0.0
SAMPLE_SBS31_45_5
proportion
0.12
0.00
SAMPLE_SBS31_45_50
proportion
0.15
0.00
SAMPLE_SBS31_45_51
proportion
0.15
0.00
SAMPLE_SBS31_45_52
proportion
0.08
0.00
SAMPLE_SBS31_45_53
proportion
0.1
0.0
preceded by 5'
followed by 3'

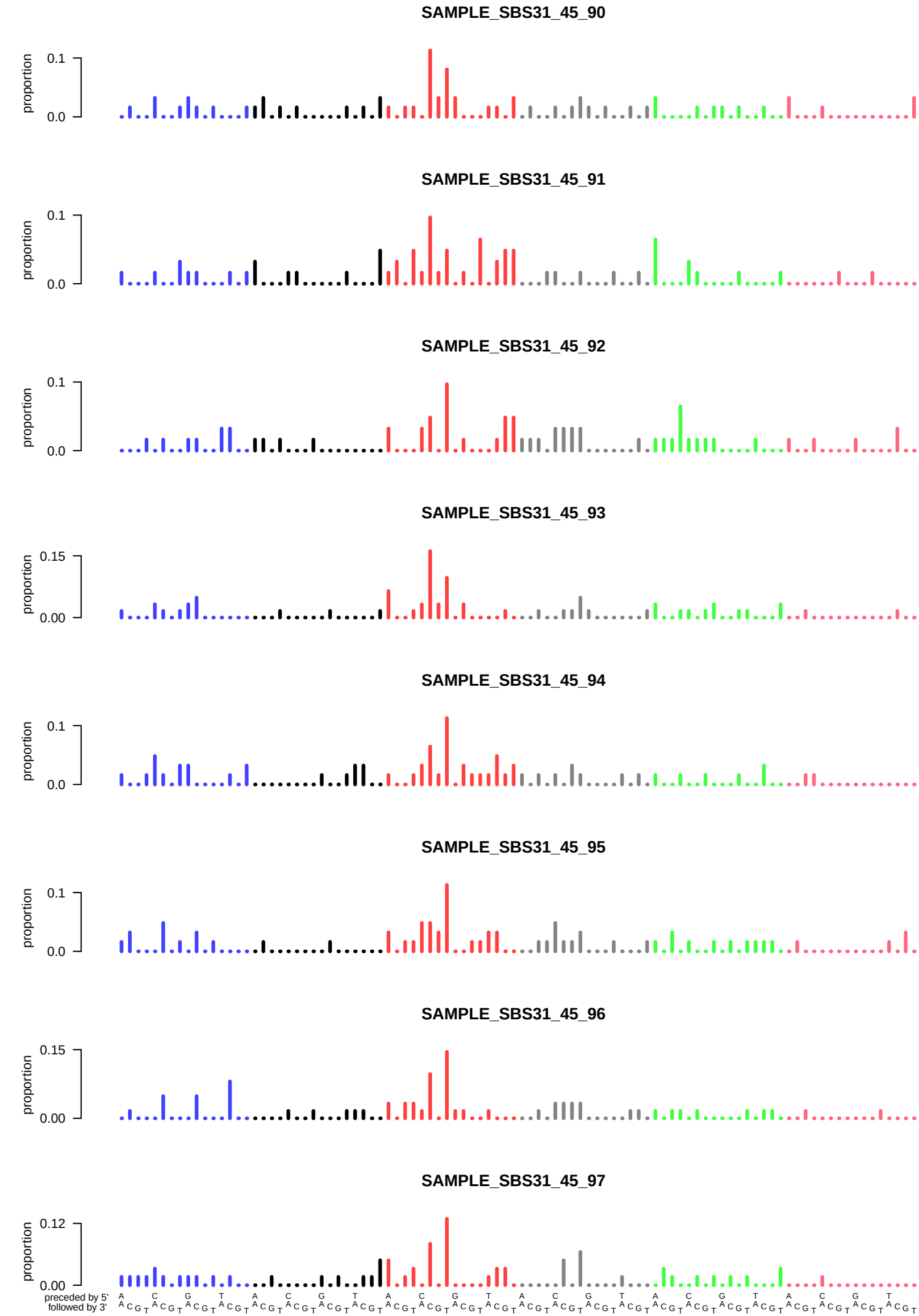

SAMPLE_SBS31_45_54
proportion
0.15
0.00
SAMPLE_SBS31_45_55
proportion
0.12
0.00
SAMPLE_SBS31_45_56
proportion
0.1
0.0
SAMPLE_SBS31_45_57
proportion
0.12
0.00
SAMPLE_SBS31_45_58
proportion
0.1
0.0
SAMPLE_SBS31_45_59
proportion
0.15
0.00
SAMPLE_SBS31_45_6
proportion
0.08
0.00
SAMPLE_SBS31_45_60
proportion
0.1
0.0
preceded by 5'
followed by 3'

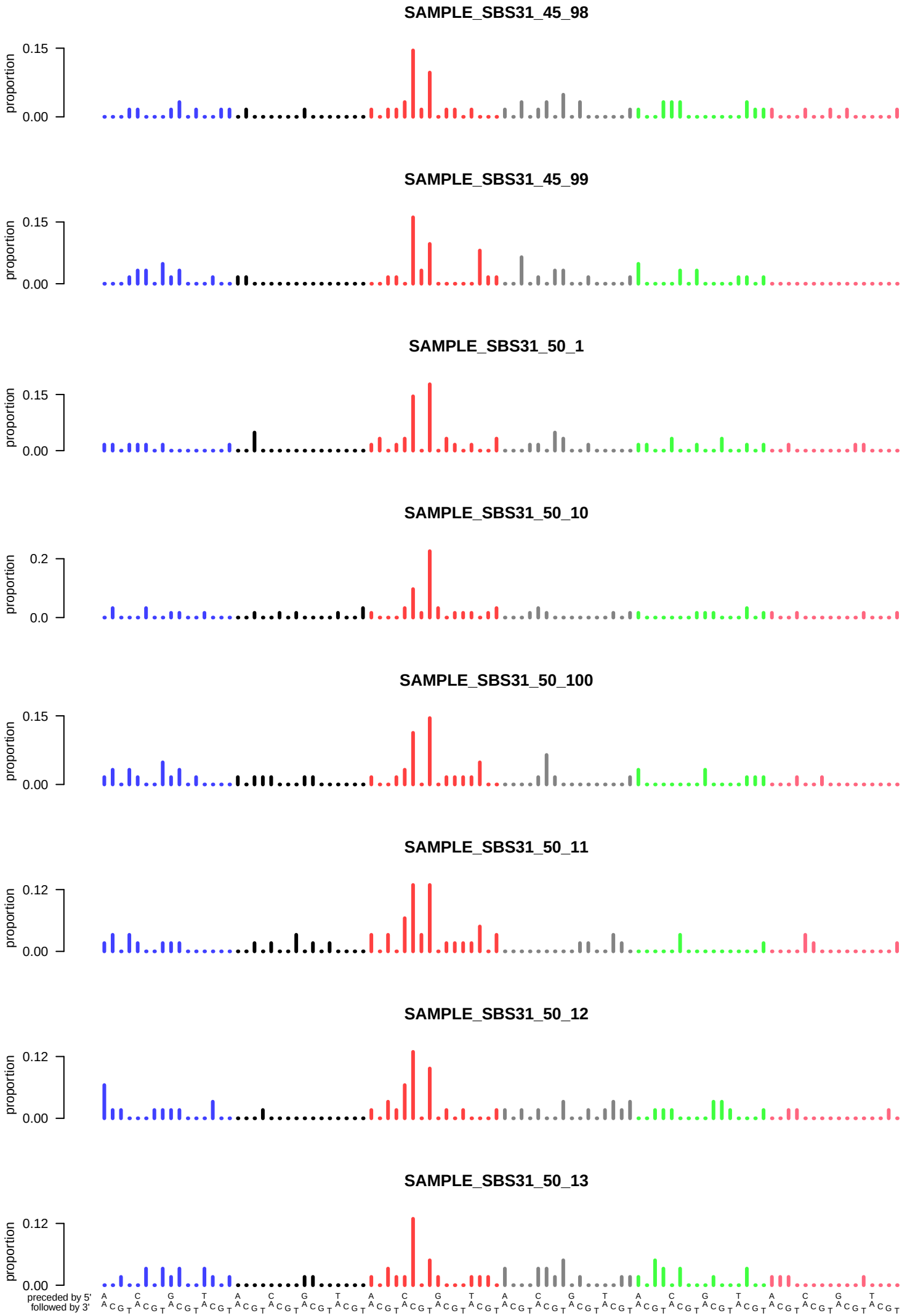

SAMPLE_SBS31_45_61
proportion
0.2
0.0
SAMPLE_SBS31_45_62
proportion
0.1
0.0
SAMPLE_SBS31_45_63
proportion
0.1
0.0
SAMPLE_SBS31_45_64
proportion
0.15
0.00
SAMPLE_SBS31_45_65
proportion
0.1
0.0
SAMPLE_SBS31_45_66
proportion
0.1
0.0
SAMPLE_SBS31_45_67
proportion
0.1
0.0
SAMPLE_SBS31_45_68
proportion
0.12
0.00
preceded by 5'
followed by 3'

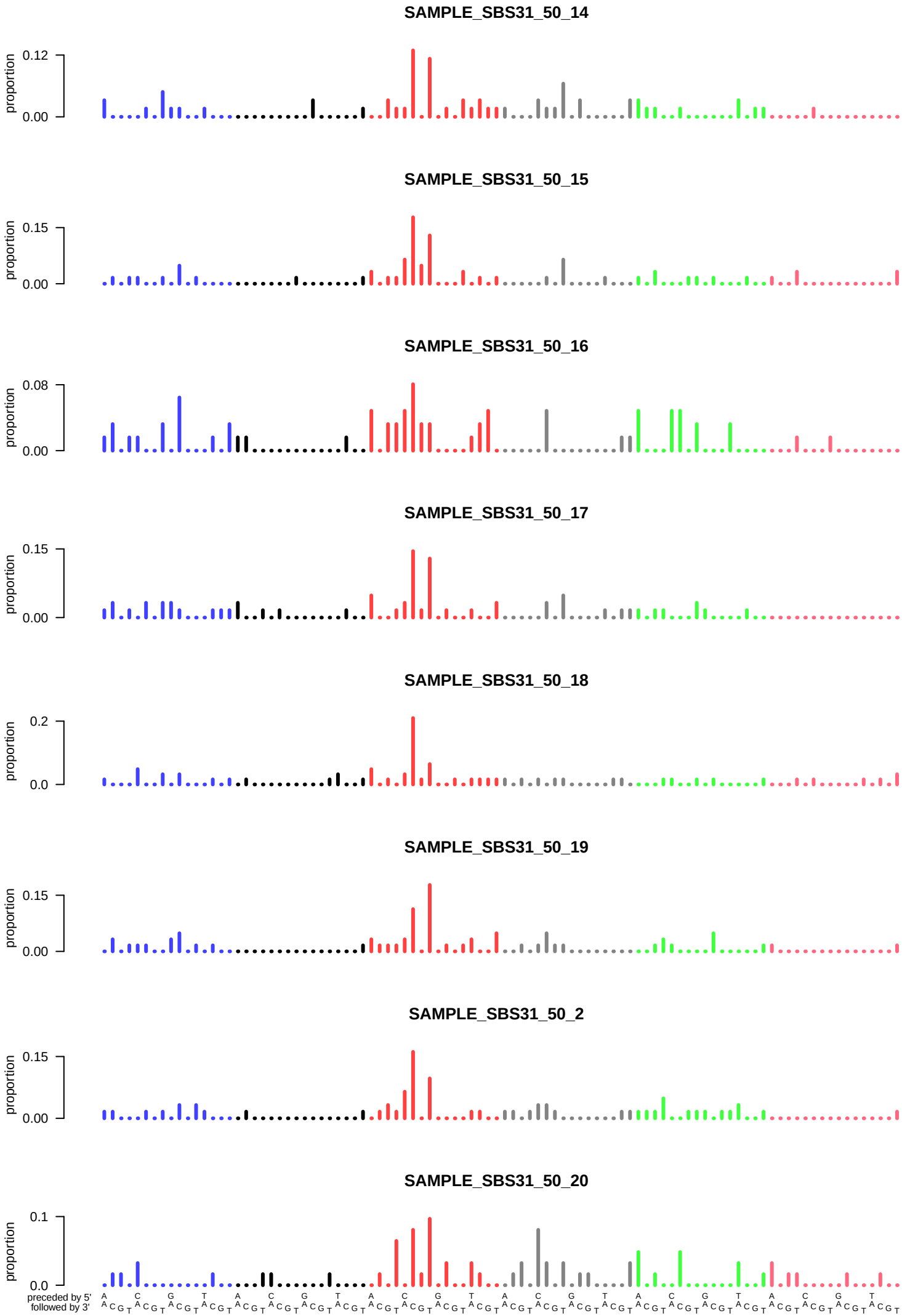

SAMPLE_SBS31_45_69
proportion
0.15
0.00
SAMPLE_SBS31_45_7
proportion
0.15
0.00
SAMPLE_SBS31_45_70
proportion
0.15
0.00
SAMPLE_SBS31_45_71
proportion
0.08
0.00
SAMPLE_SBS31_45_72
proportion
0.2
0.0
SAMPLE_SBS31_45_73
proportion
0.25
0.00
SAMPLE_SBS31_45_74
proportion
0.1
0.0
SAMPLE_SBS31_45_75
proportion
0.2
0.0
preceded by 5'
followed by 3'

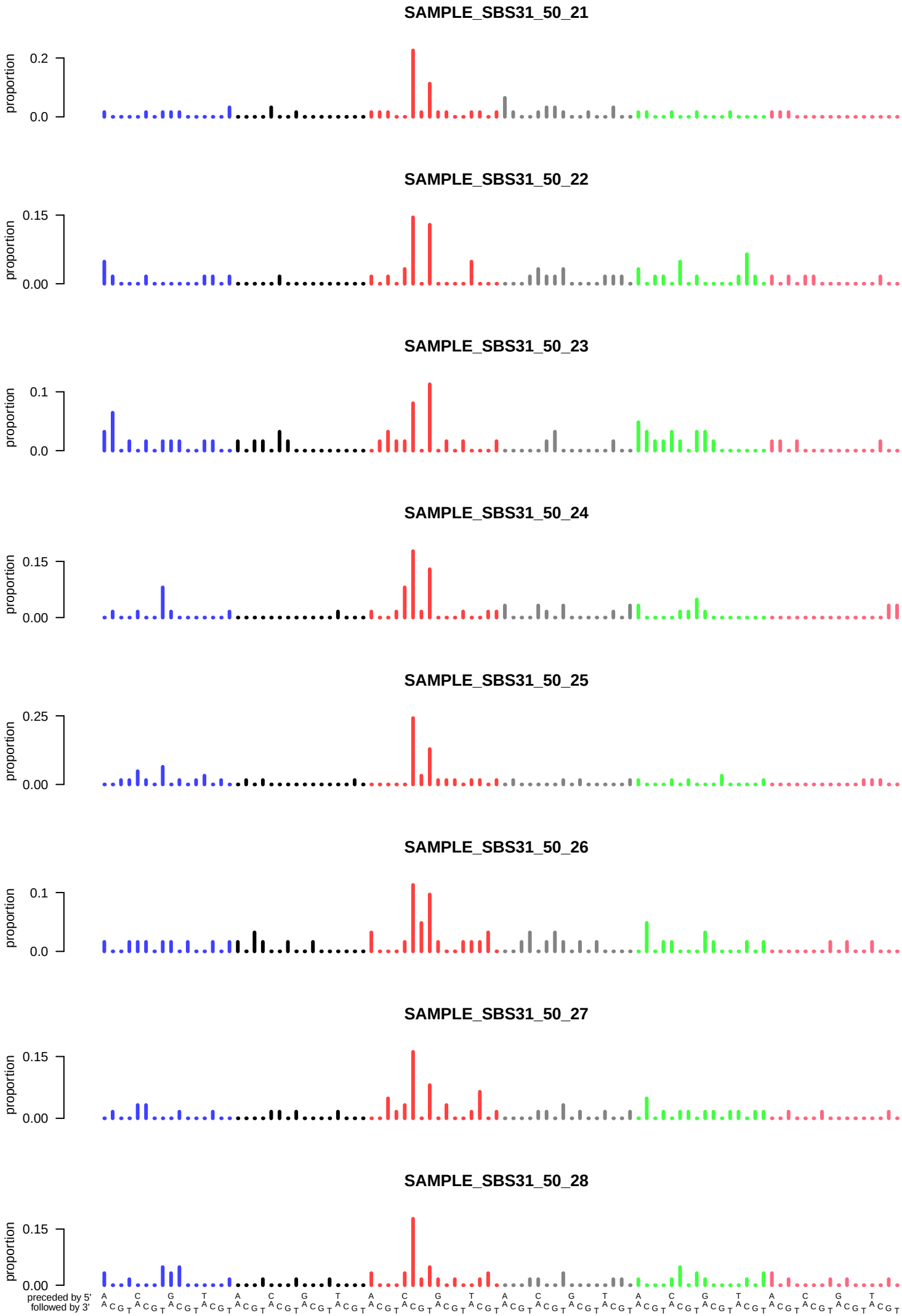

SAMPLE_SBS31_45_76
proportion
0.12
0.00
SAMPLE_SBS31_45_77
proportion
0.12
0.00
SAMPLE_SBS31_45_78
proportion
0.1
0.0
SAMPLE_SBS31_45_79
proportion
0.1
0.0
SAMPLE_SBS31_45_8
proportion
0.1
0.0
SAMPLE_SBS31_45_80
proportion
0.1
0.0
SAMPLE_SBS31_45_81
proportion
0.1
0.0
SAMPLE_SBS31_45_82
proportion
0.15
0.00
preceded by 5'
followed by 3'

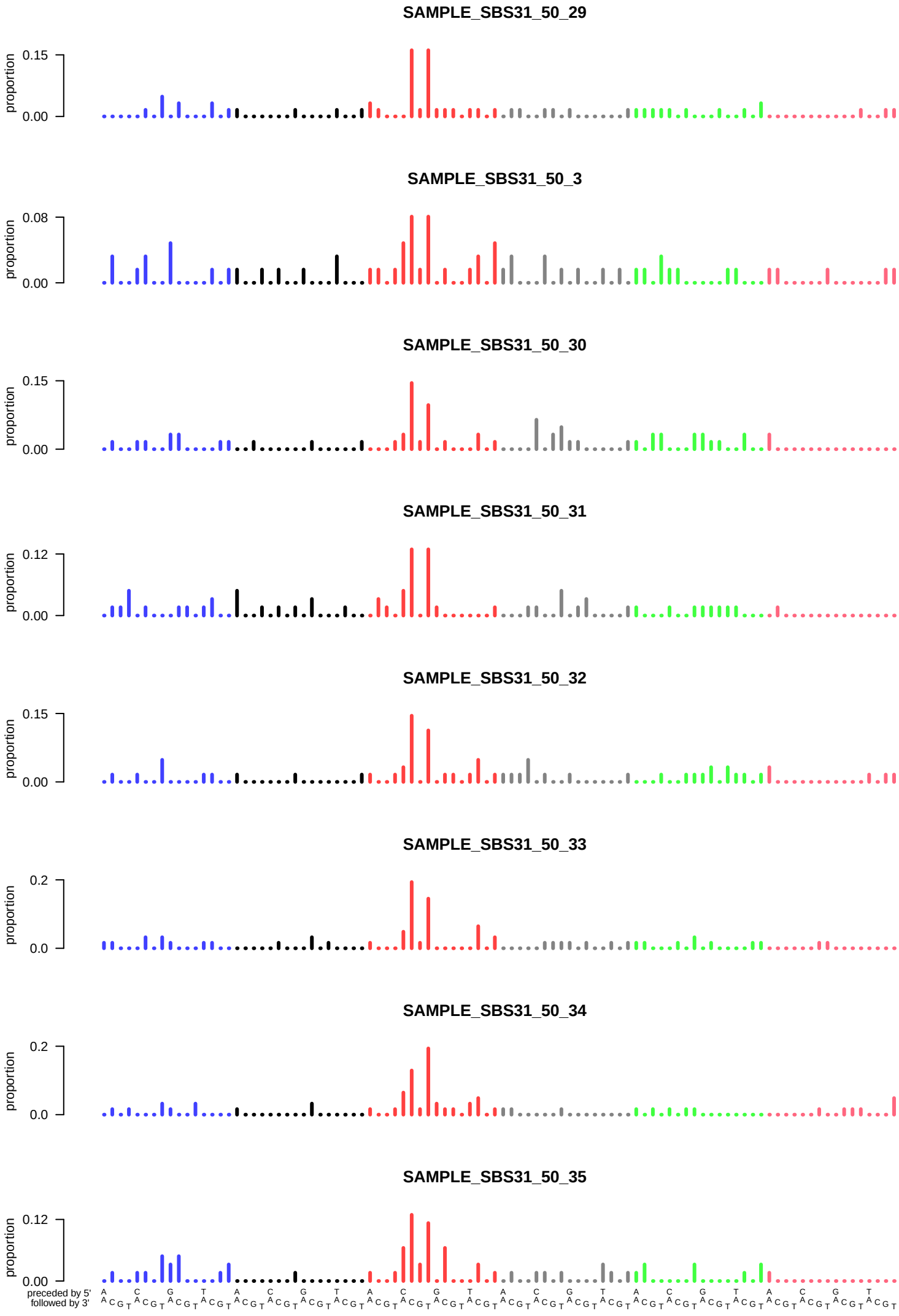

SAMPLE_SBS31_45_83
proportion
0.15
0.00
SAMPLE_SBS31_45_84
proportion
0.08
0.00
SAMPLE_SBS31_45_85
proportion
0.12
0.00
SAMPLE_SBS31_45_86
proportion
0.15
0.00
SAMPLE_SBS31_45_87
proportion
0.2
0.0
SAMPLE_SBS31_45_88
proportion
0.15
0.00
SAMPLE_SBS31_45_89
proportion
0.1
0.0
SAMPLE_SBS31_45_9
proportion
0.1
0.0
preceded by 5'
followed by 3'

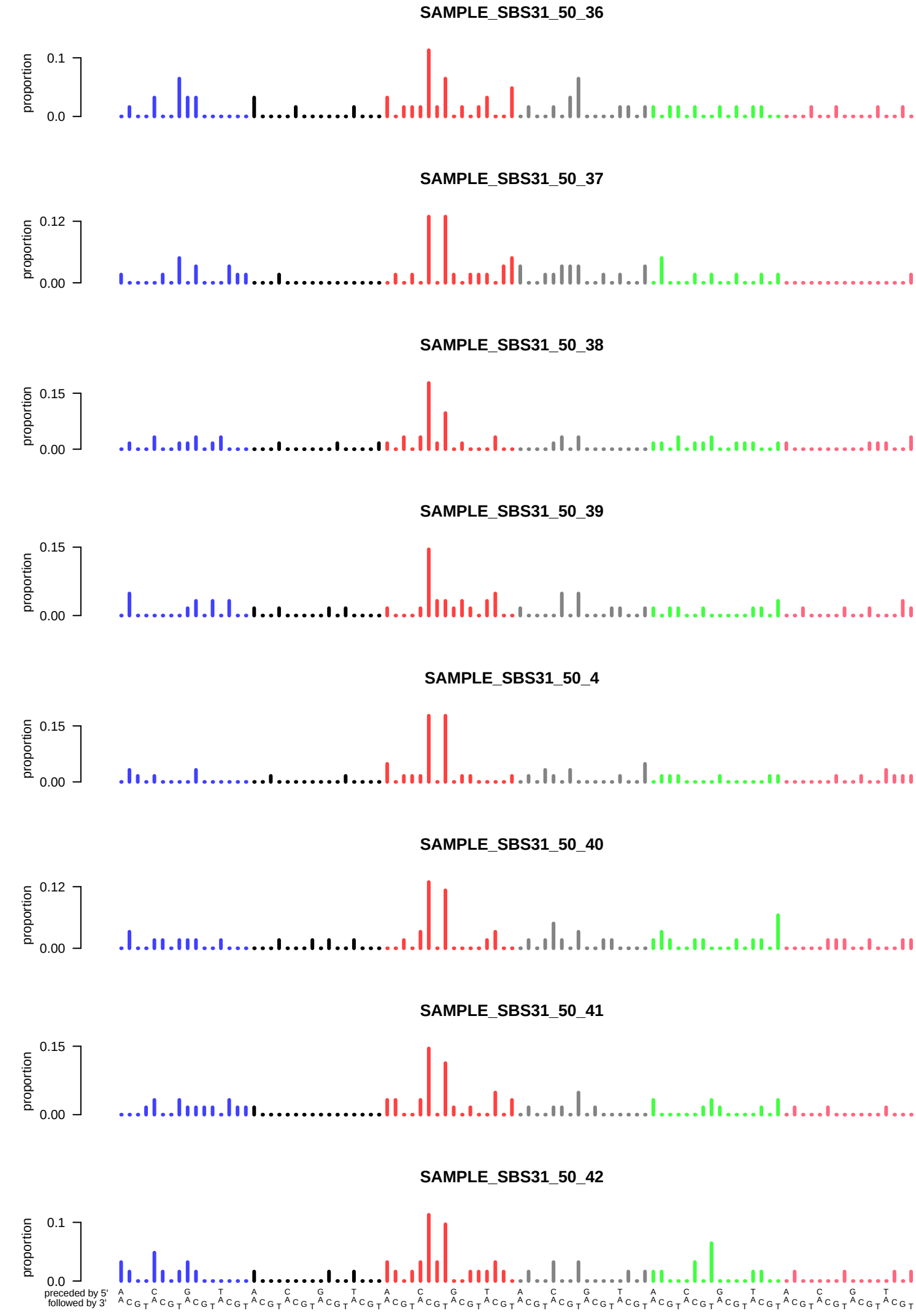

SAMPLE_SBS31_45_90
proportion
0.1
0.0
SAMPLE_SBS31_45_91
proportion
0.1
0.0
SAMPLE_SBS31_45_92
proportion
0.1
0.0
SAMPLE_SBS31_45_93
proportion
0.15
0.00
SAMPLE_SBS31_45_94
proportion
0.1
0.0
SAMPLE_SBS31_45_95
proportion
0.1
0.0
SAMPLE_SBS31_45_96
proportion
0.15
0.00
SAMPLE_SBS31_45_97
proportion
0.12
0.00
preceded by 5'
followed by 3'

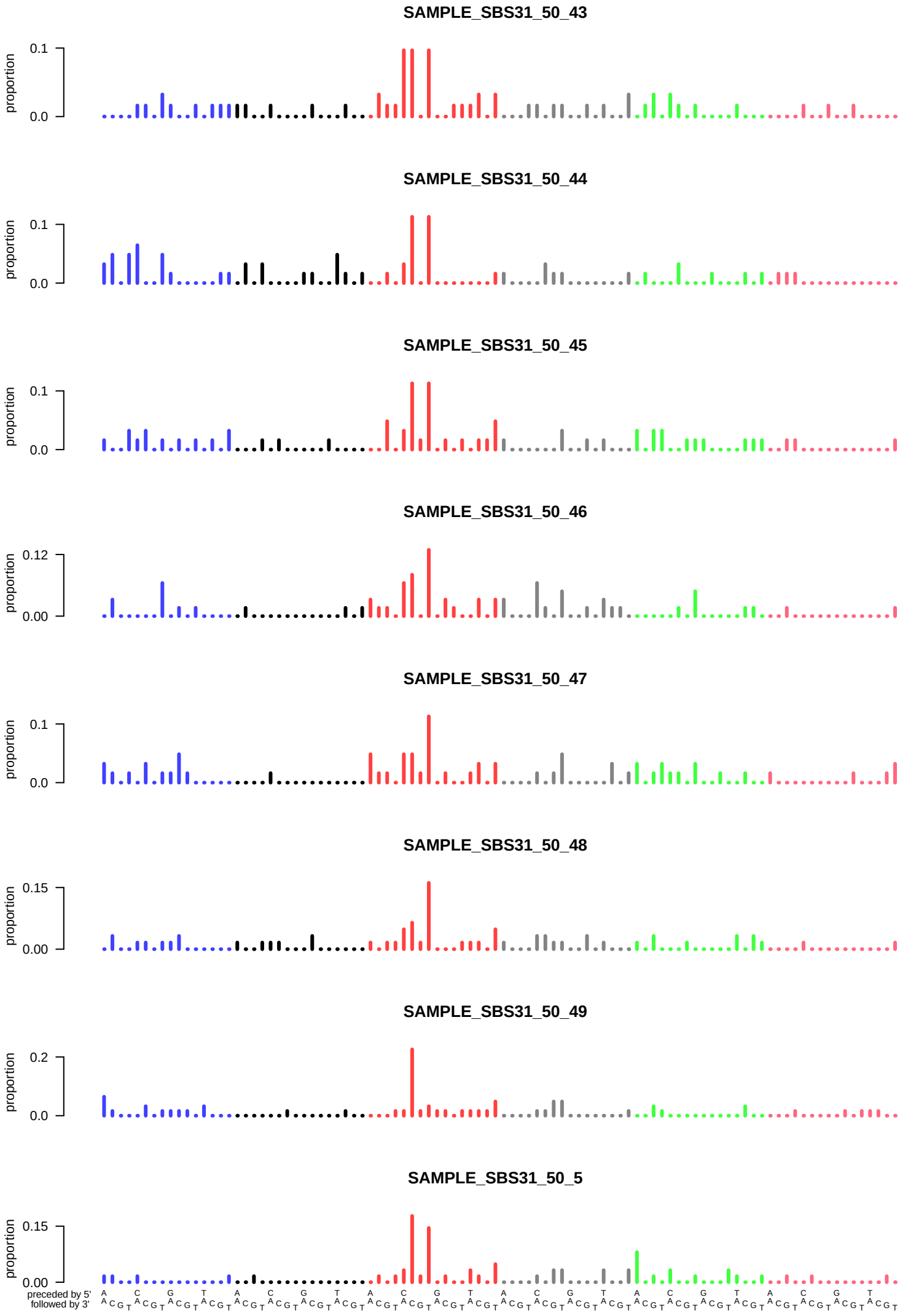

SAMPLE_SBS31_45_98
proportion
0.15
0.00
SAMPLE_SBS31_45_99
proportion
0.15
0.00
SAMPLE_SBS31_50_1
proportion
0.15
0.00
SAMPLE_SBS31_50_10
proportion
0.2
0.0
SAMPLE_SBS31_50_100
proportion
0.15
0.00
SAMPLE_SBS31_50_11
proportion
0.12
0.00
SAMPLE_SBS31_50_12
proportion
0.12
0.00
SAMPLE_SBS31_50_13
proportion
0.12
0.00
preceded by 5'
followed by 3'

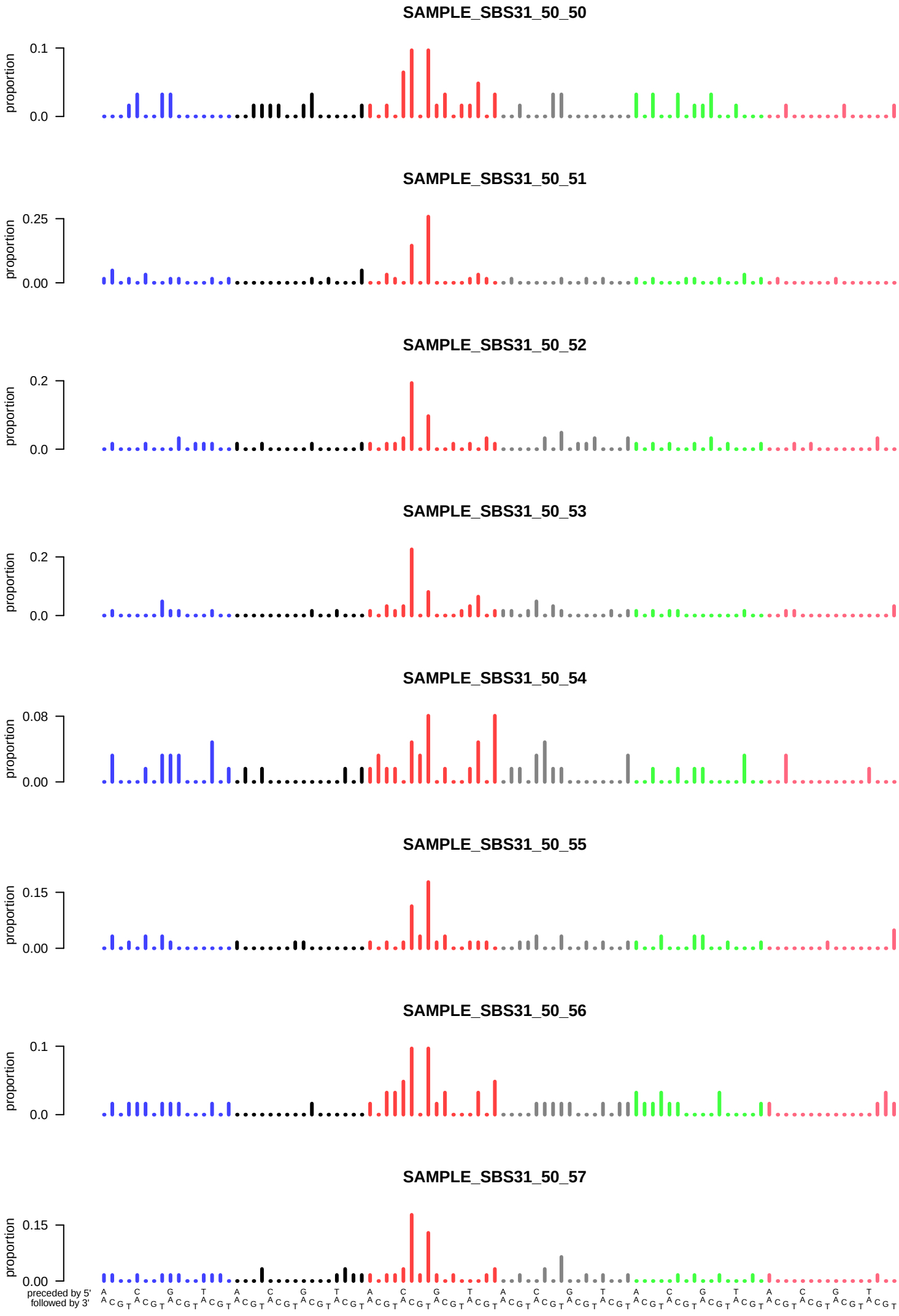

SAMPLE_SBS31_50_14
proportion
0.12
0.00
SAMPLE_SBS31_50_15
proportion
0.15
0.00
SAMPLE_SBS31_50_16
proportion
0.08
0.00
SAMPLE_SBS31_50_17
proportion
0.15
0.00
SAMPLE_SBS31_50_18
proportion
0.2
0.0
SAMPLE_SBS31_50_19
proportion
0.15
0.00
SAMPLE_SBS31_50_2
proportion
0.15
0.00
SAMPLE_SBS31_50_20
proportion
0.1
0.0
preceded by 5'
followed by 3'

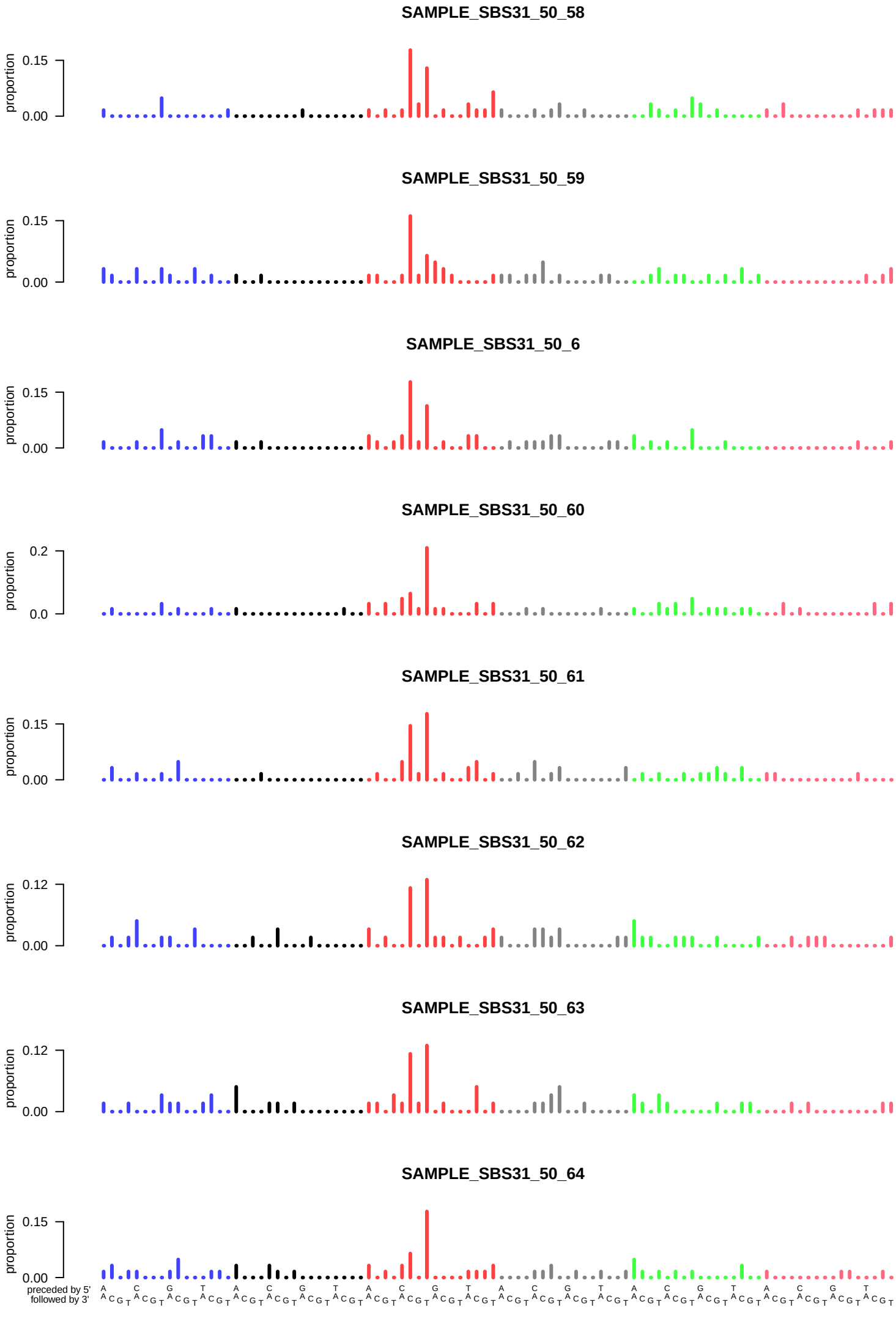

SAMPLE_SBS31_50_21
proportion
0.2
0.0
SAMPLE_SBS31_50_22
proportion
0.15
0.00
SAMPLE_SBS31_50_23
proportion
0.1
0.0
SAMPLE_SBS31_50_24
proportion
0.15
0.00
SAMPLE_SBS31_50_25
proportion
0.25
0.00
SAMPLE_SBS31_50_26
proportion
0.1
0.0
SAMPLE_SBS31_50_27
proportion
0.15
0.00
SAMPLE_SBS31_50_28
proportion
0.15
0.00
preceded by 5'
followed by 3'

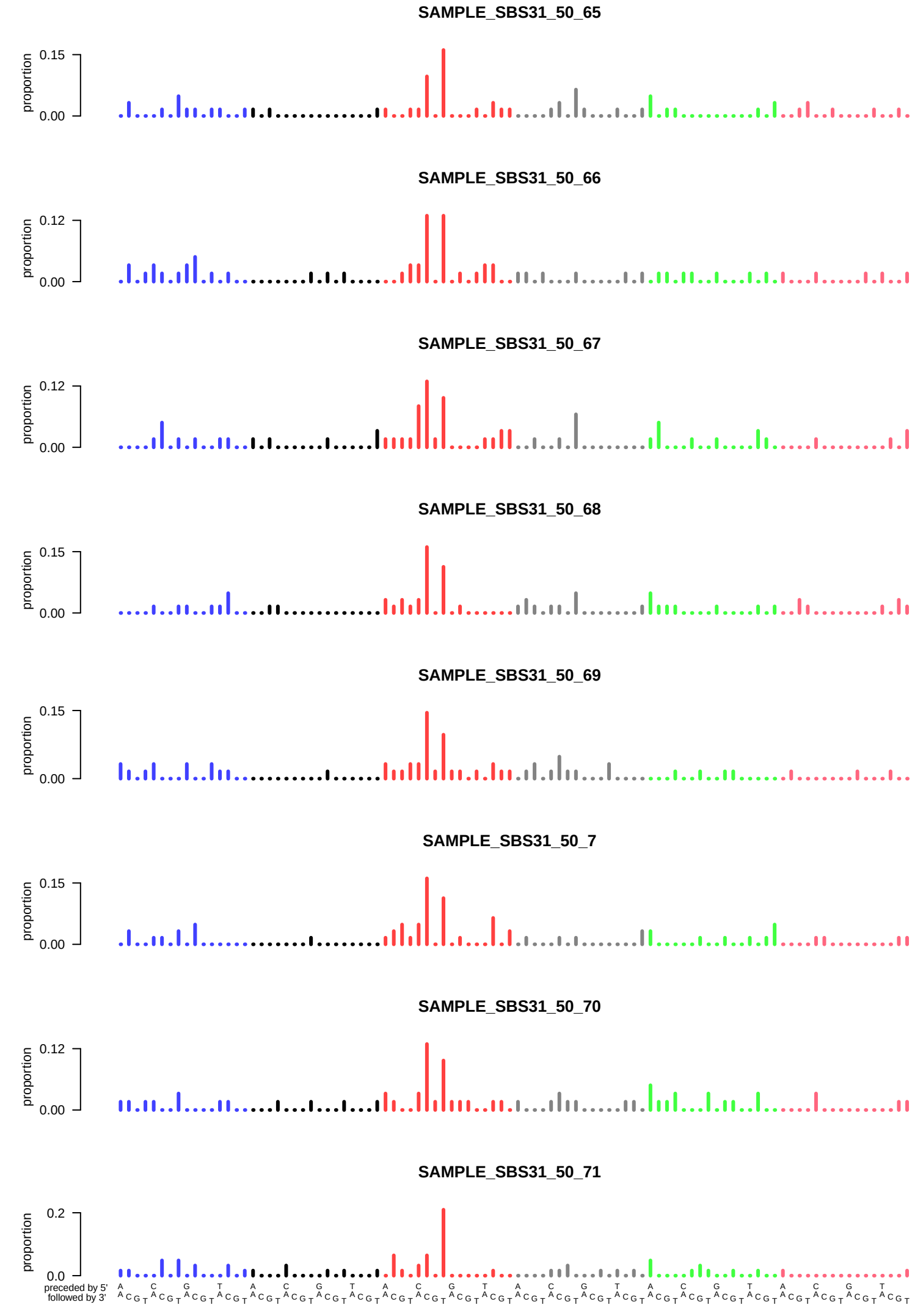

SAMPLE_SBS31_50_29
proportion
0.15
0.00
SAMPLE_SBS31_50_3
proportion
0.08
0.00
SAMPLE_SBS31_50_30
proportion
0.15
0.00
SAMPLE_SBS31_50_31
proportion
0.12
0.00
SAMPLE_SBS31_50_32
proportion
0.15
0.00
SAMPLE_SBS31_50_33
proportion
0.2
0.0
SAMPLE_SBS31_50_34
proportion
0.2
0.0
SAMPLE_SBS31_50_35
proportion
0.12
0.00
preceded by 5'
followed by 3'

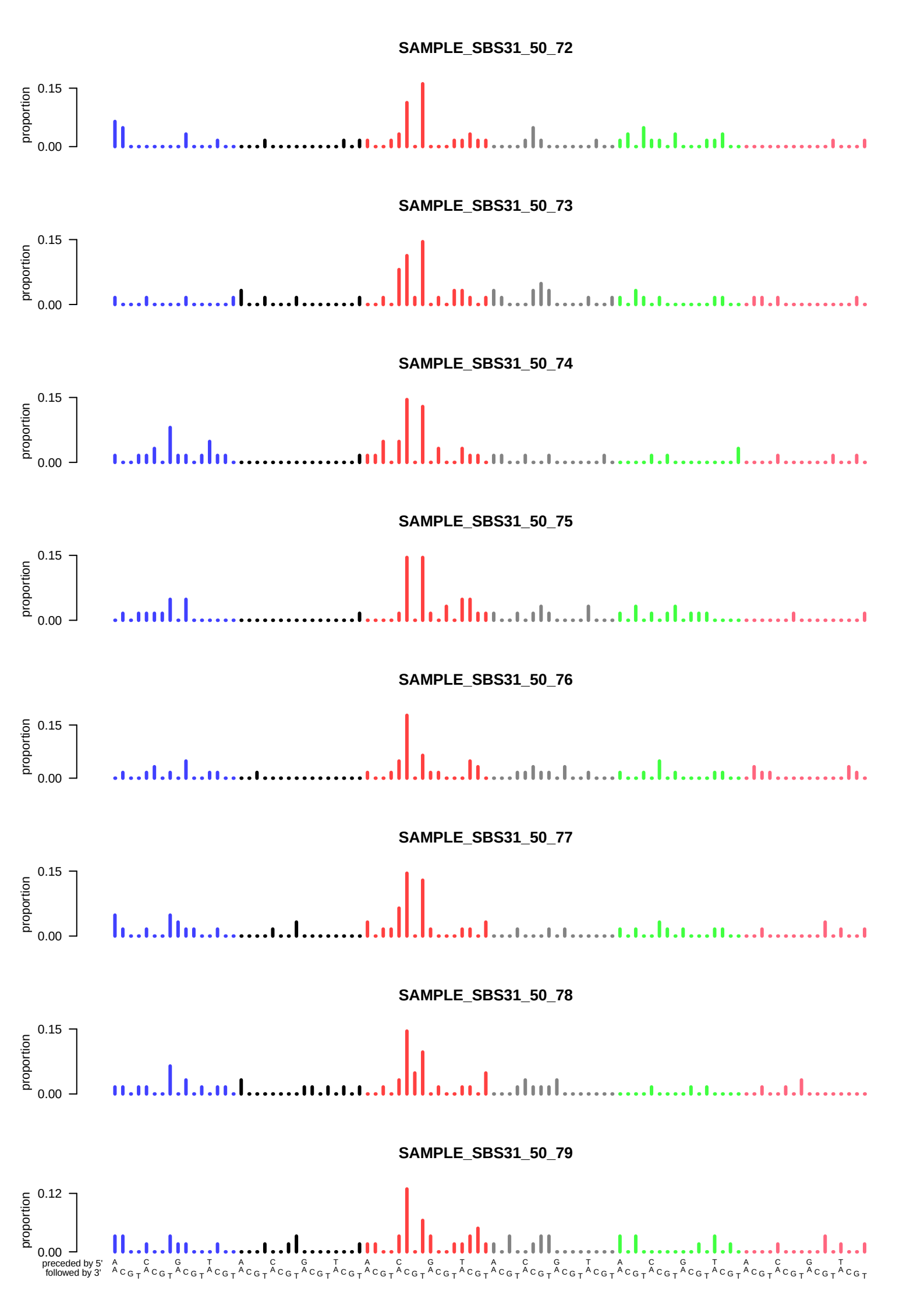

SAMPLE_SBS31_50_36
proportion
0.1
0.0
SAMPLE_SBS31_50_37
proportion
0.12
0.00
SAMPLE_SBS31_50_38
proportion
0.15
0.00
SAMPLE_SBS31_50_39
proportion
0.15
0.00
SAMPLE_SBS31_50_4
proportion
0.15
0.00
SAMPLE_SBS31_50_40
proportion
0.12
0.00
SAMPLE_SBS31_50_41
proportion
0.15
0.00
SAMPLE_SBS31_50_42
proportion
0.1
0.0
preceded by 5'
followed by 3'

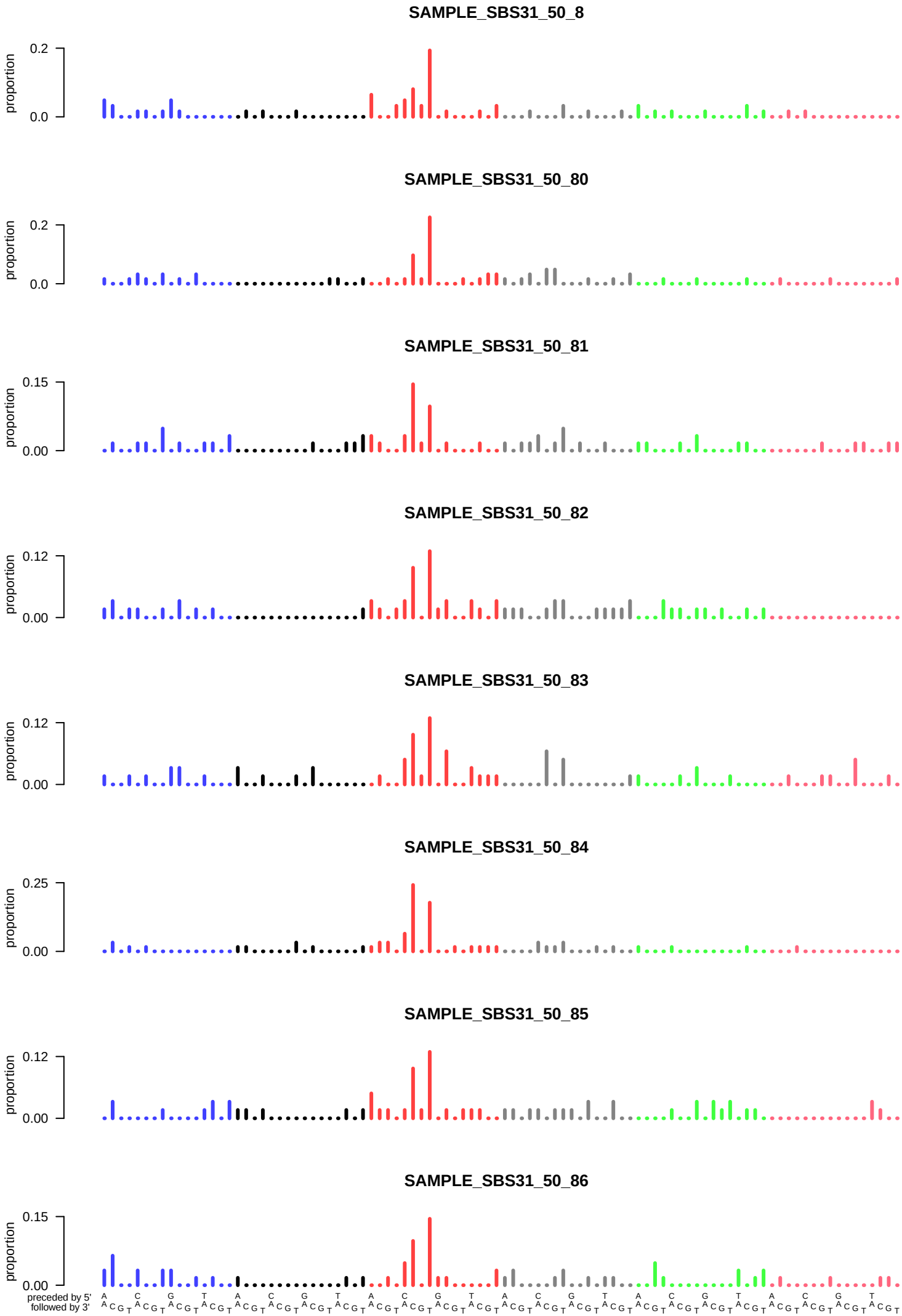

SAMPLE_SBS31_50_43
proportion
0.1
0.0
SAMPLE_SBS31_50_44
proportion
0.1
0.0
SAMPLE_SBS31_50_45
proportion
0.1
0.0
SAMPLE_SBS31_50_46
proportion
0.12
0.00
SAMPLE_SBS31_50_47
proportion
0.1
0.0
SAMPLE_SBS31_50_48
proportion
0.15
0.00
SAMPLE_SBS31_50_49
proportion
0.2
0.0
SAMPLE_SBS31_50_5
proportion
0.15
0.00
preceded by 5'
followed by 3'

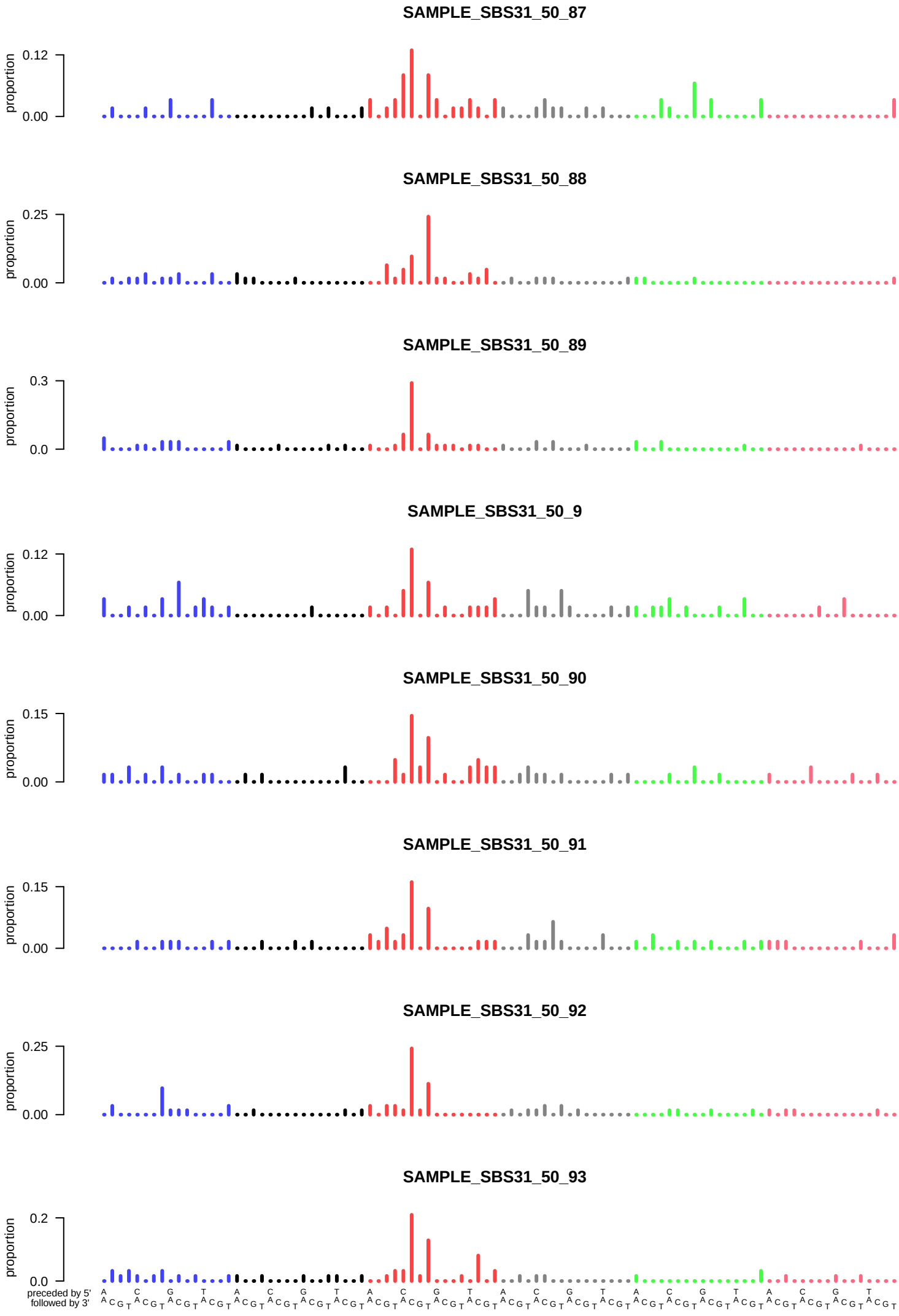

SAMPLE_SBS31_50_50
proportion
0.1
0.0
SAMPLE_SBS31_50_51
proportion
0.25
0.00
SAMPLE_SBS31_50_52
proportion
0.2
0.0
SAMPLE_SBS31_50_53
proportion
0.2
0.0
SAMPLE_SBS31_50_54
proportion
0.08
0.00
SAMPLE_SBS31_50_55
proportion
0.15
0.00
SAMPLE_SBS31_50_56
proportion
0.1
0.0
SAMPLE_SBS31_50_57
proportion
0.15
0.00
preceded by 5'
followed by 3'

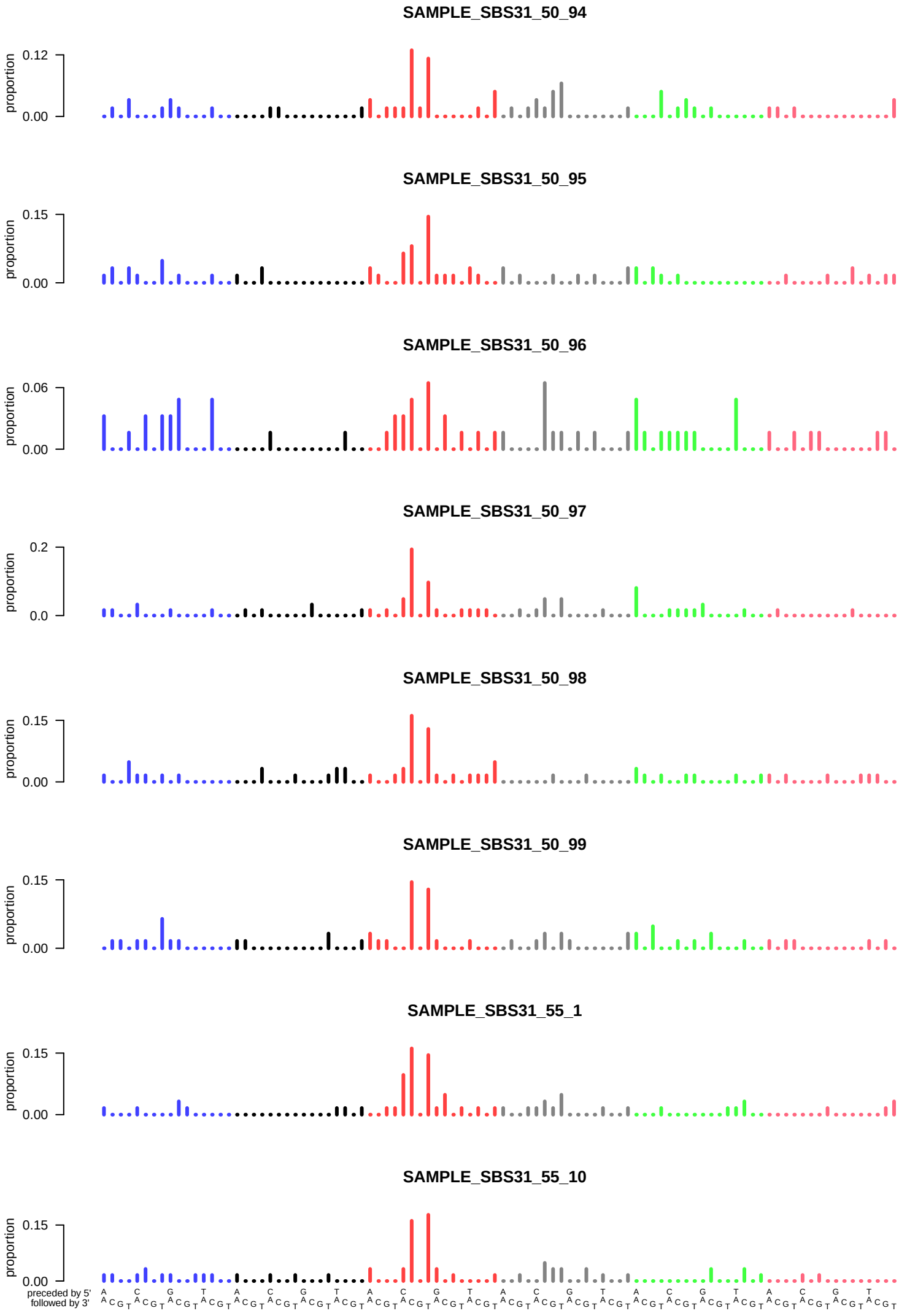

SAMPLE_SBS31_50_58
proportion
0.15
0.00
SAMPLE_SBS31_50_59
proportion
0.15
0.00
SAMPLE_SBS31_50_6
proportion
0.15
0.00
SAMPLE_SBS31_50_60
proportion
0.2
0.0
SAMPLE_SBS31_50_61
proportion
0.15
0.00
SAMPLE_SBS31_50_62
proportion
0.12
0.00
SAMPLE_SBS31_50_63
proportion
0.12
0.00
SAMPLE_SBS31_50_64
proportion
0.15
0.00
preceded by 5'
followed by 3'

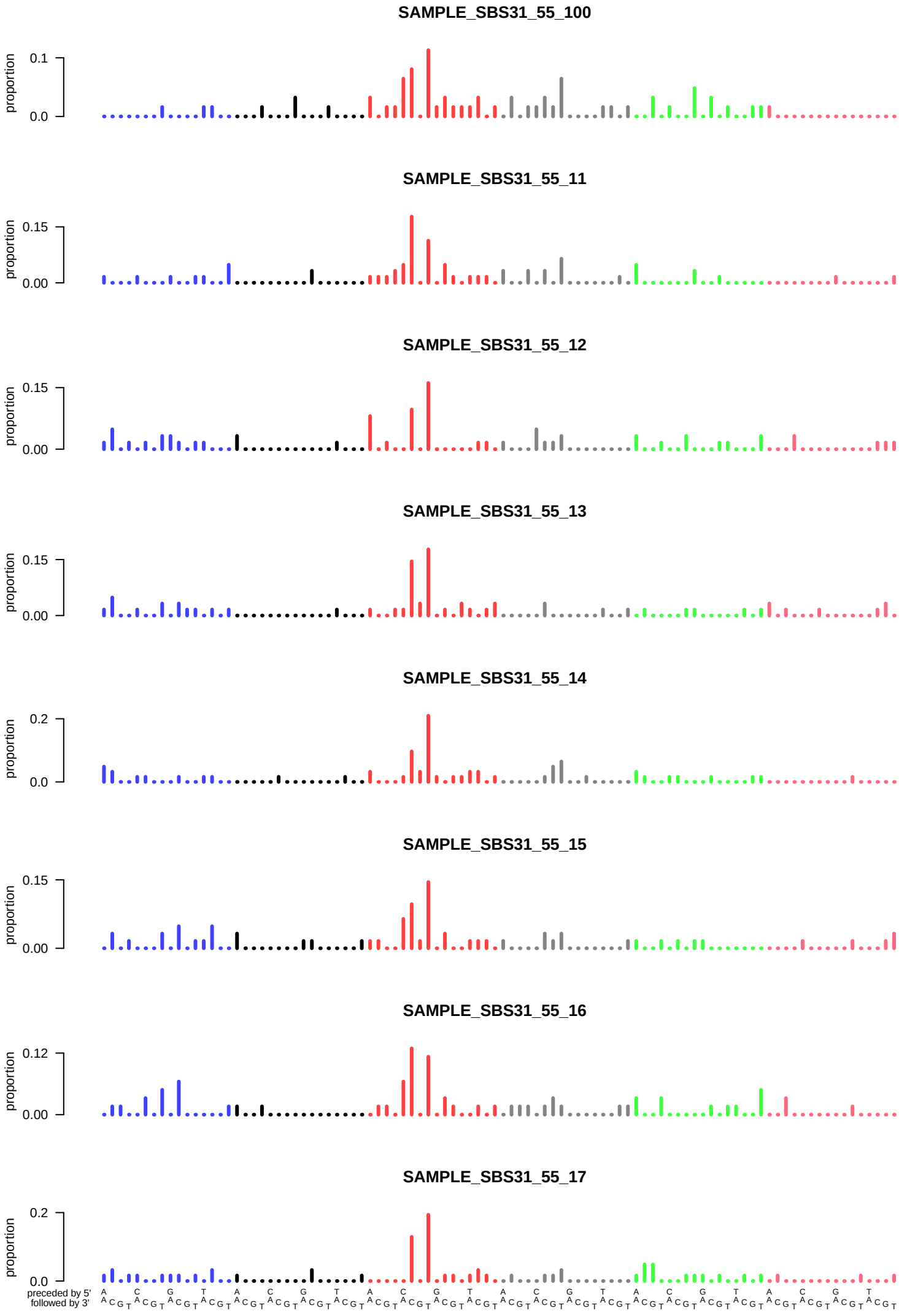

SAMPLE_SBS31_50_65
proportion
0.15
0.00
SAMPLE_SBS31_50_66
proportion
0.12
0.00
SAMPLE_SBS31_50_67
proportion
0.12
0.00
SAMPLE_SBS31_50_68
proportion
0.15
0.00
SAMPLE_SBS31_50_69
proportion
0.15
0.00
SAMPLE_SBS31_50_7
proportion
0.15
0.00
SAMPLE_SBS31_50_70
proportion
0.12
0.00
SAMPLE_SBS31_50_71
proportion
0.2
0.0
preceded by 5'
followed by 3'

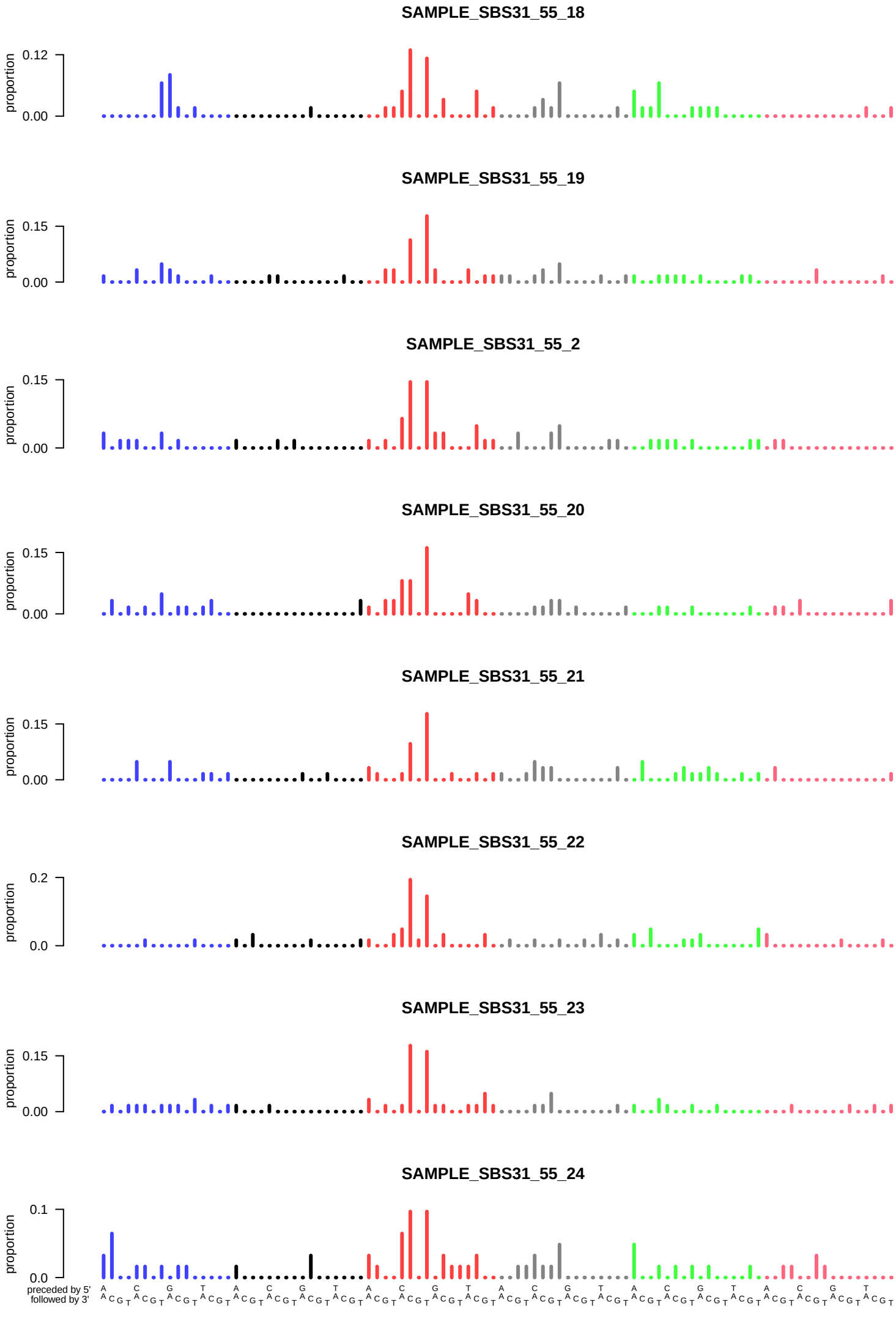

SAMPLE_SBS31_50_72
SAMPLE_SBS31_50_73
SAMPLE_SBS31_50_74
SAMPLE_SBS31_50_75
SAMPLE_SBS31_50_76
SAMPLE_SBS31_50_77
SAMPLE_SBS31_50_78
SAMPLE_SBS31_50_79
proportion
0.15
0.12
0.00
preceded by 5'
followed by 3'

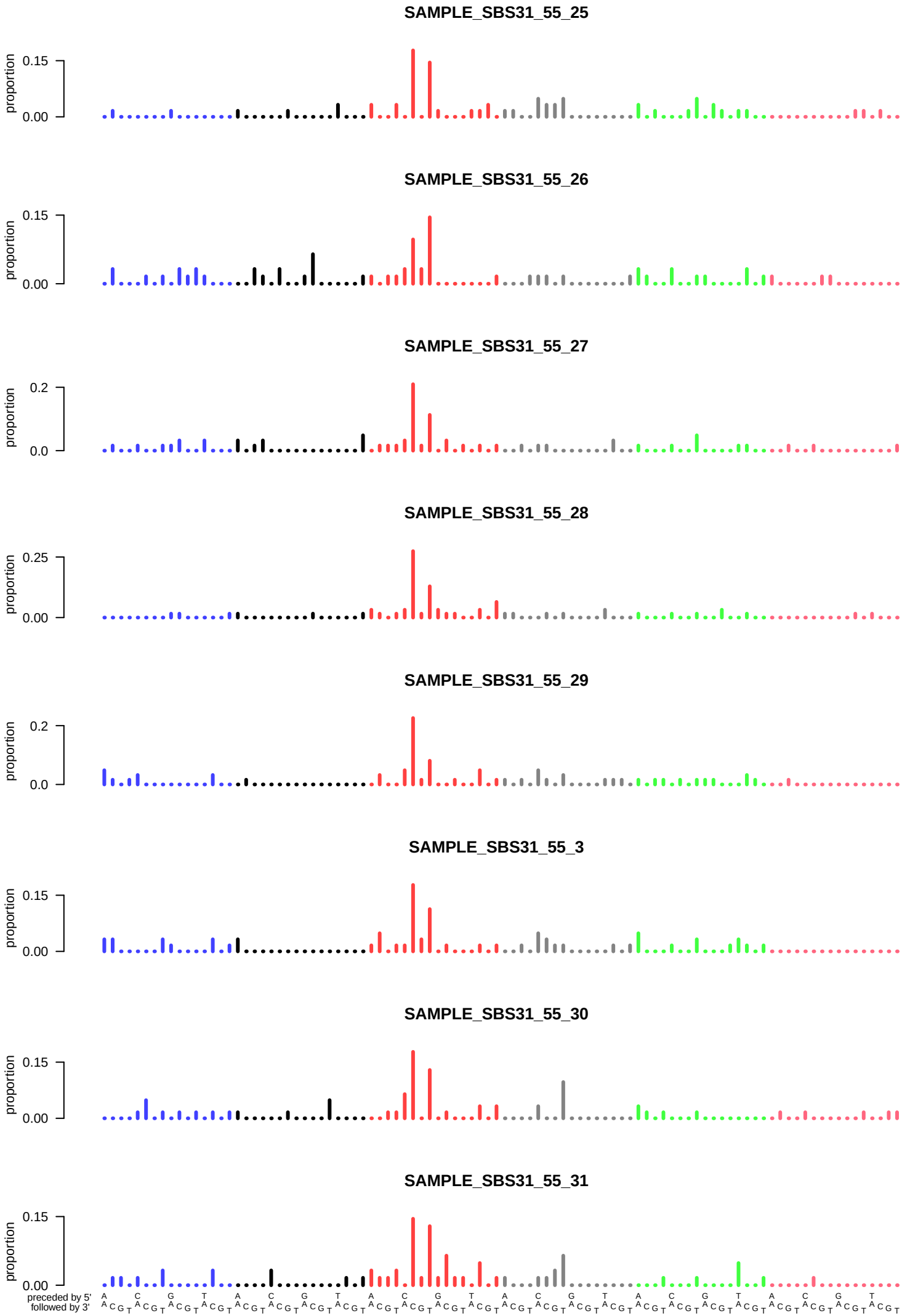

SAMPLE_SBS31_50_8
SAMPLE_SBS31_50_80
SAMPLE_SBS31_50_81
SAMPLE_SBS31_50_82
SAMPLE_SBS31_50_83
SAMPLE_SBS31_50_84
SAMPLE_SBS31_50_85
SAMPLE_SBS31_50_86
proportion
preceded by 5'
followed by 3'

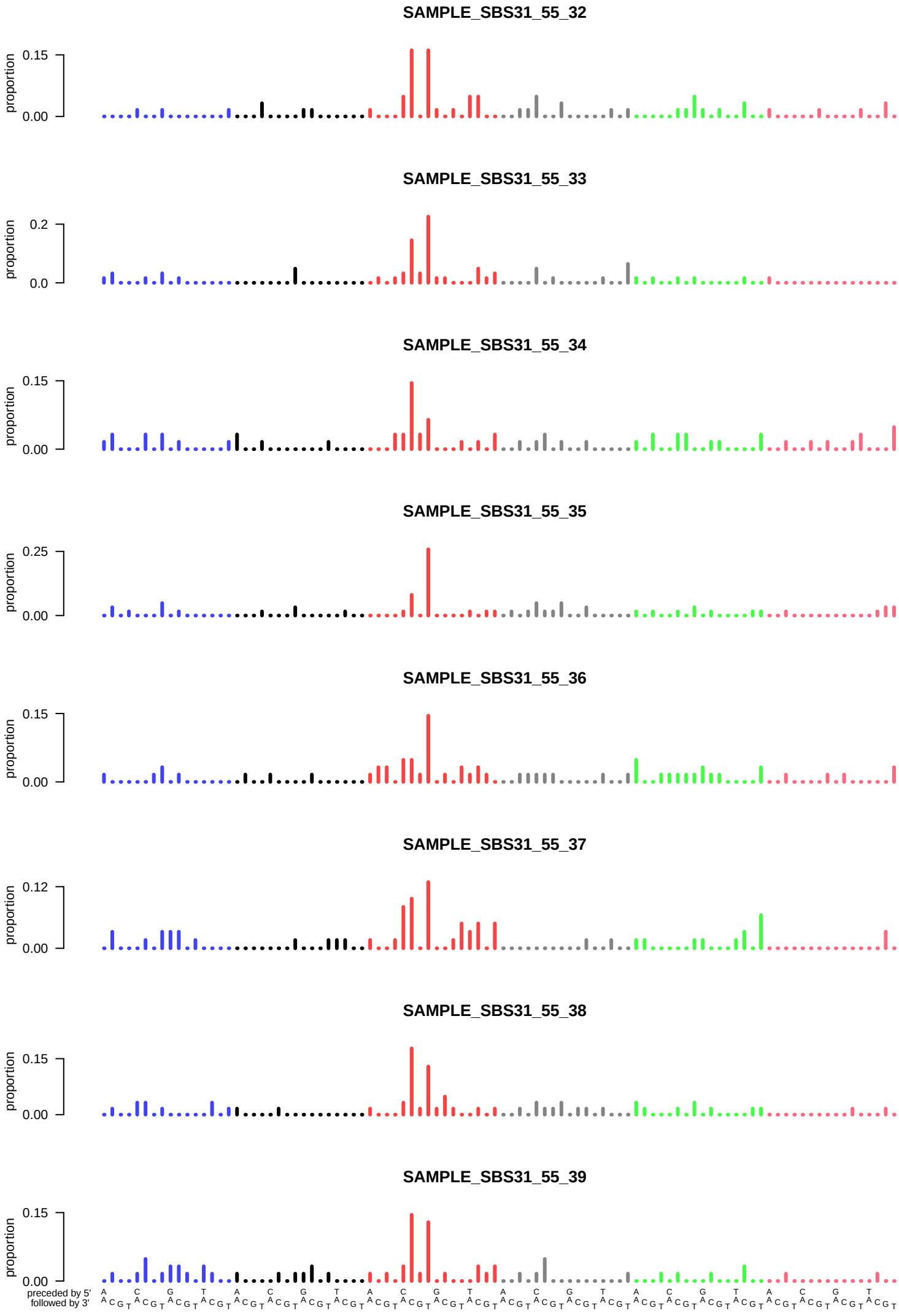

SAMPLE_SBS31_50_87
proportion
0.12
0.00
SAMPLE_SBS31_50_88
proportion
0.25
0.00
SAMPLE_SBS31_50_89
proportion
0.3
0.0
SAMPLE_SBS31_50_9
proportion
0.12
0.00
SAMPLE_SBS31_50_90
proportion
0.15
0.00
SAMPLE_SBS31_50_91
proportion
0.15
0.00
SAMPLE_SBS31_50_92
proportion
0.25
0.00
SAMPLE_SBS31_50_93
proportion
0.2
0.0
preceded by 5'
followed by 3'

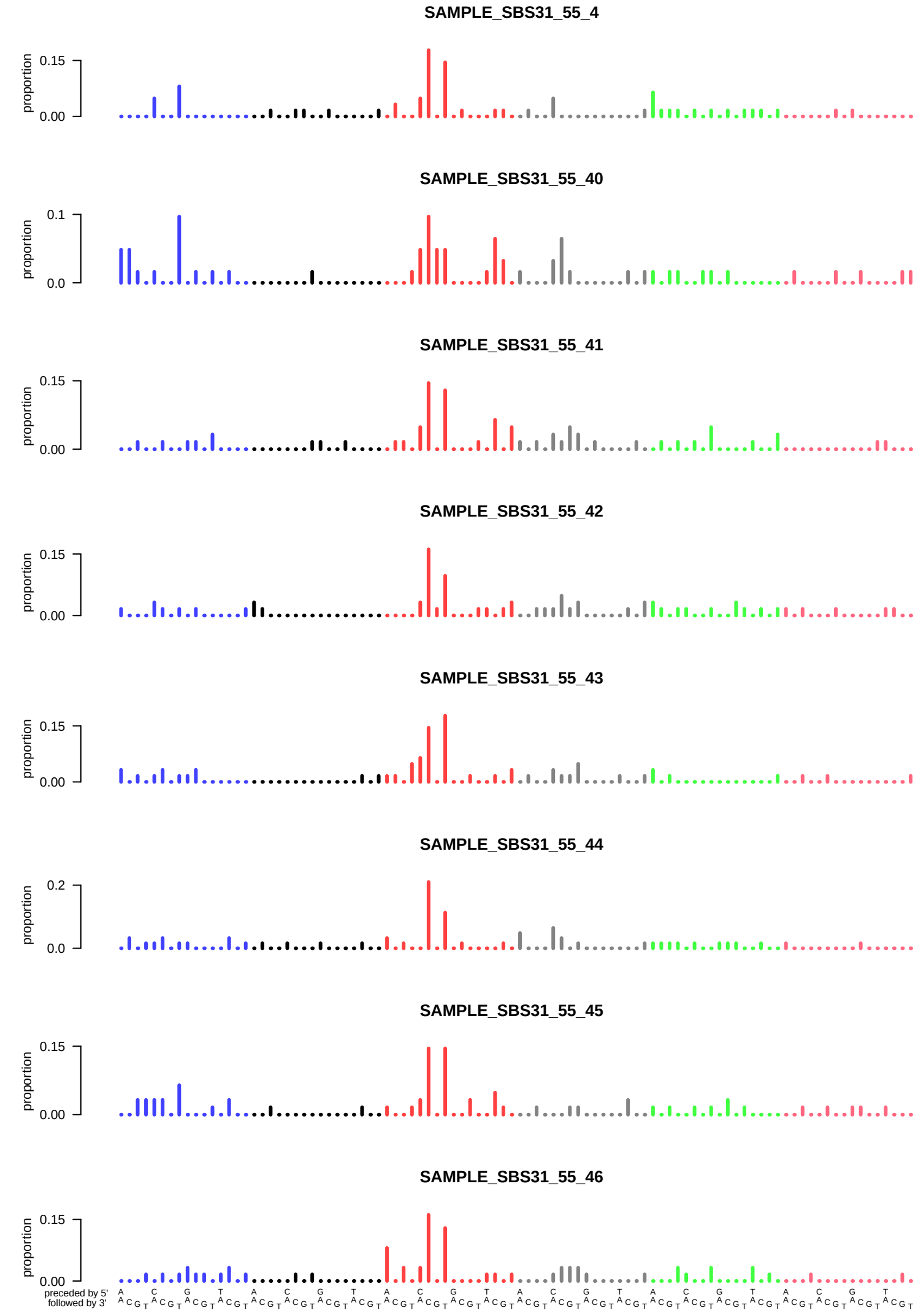

SAMPLE_SBS31_50_94
proportion
0.12
0.00
SAMPLE_SBS31_50_95
proportion
0.15
0.00
SAMPLE_SBS31_50_96
proportion
0.06
0.00
SAMPLE_SBS31_50_97
proportion
0.2
0.0
SAMPLE_SBS31_50_98
proportion
0.15
0.00
SAMPLE_SBS31_50_99
proportion
0.15
0.00
SAMPLE_SBS31_55_1
proportion
0.15
0.00
SAMPLE_SBS31_55_10
proportion
0.15
0.00
preceded by 5'
followed by 3'

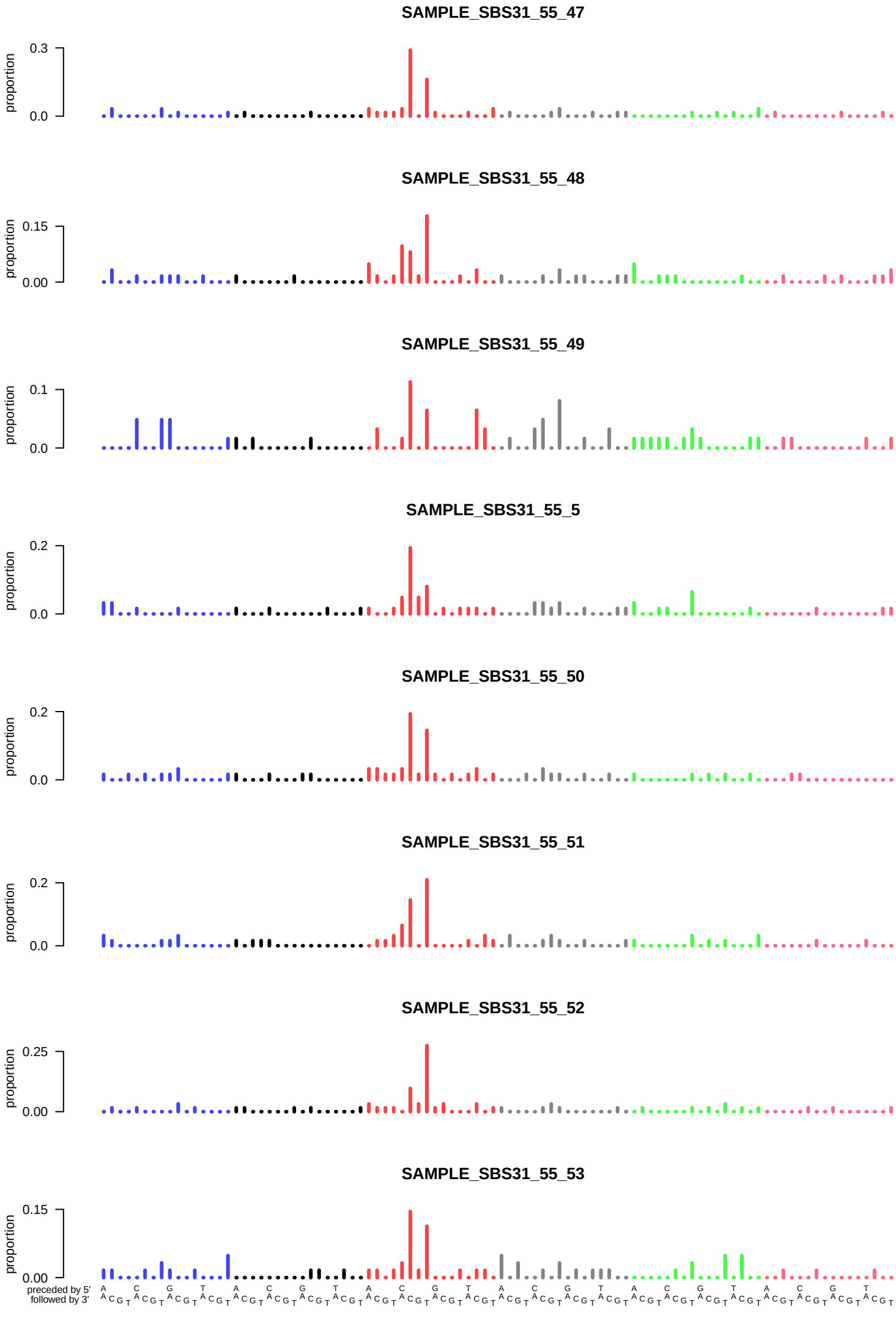

SAMPLE_SBS31_55_100
proportion
0.1
0.0
SAMPLE_SBS31_55_11
proportion
0.15
0.00
SAMPLE_SBS31_55_12
proportion
0.15
0.00
SAMPLE_SBS31_55_13
proportion
0.15
0.00
SAMPLE_SBS31_55_14
proportion
0.2
0.0
SAMPLE_SBS31_55_15
proportion
0.15
0.00
SAMPLE_SBS31_55_16
proportion
0.12
0.00
SAMPLE_SBS31_55_17
proportion
0.2
0.0
preceded by 5'
followed by 3'

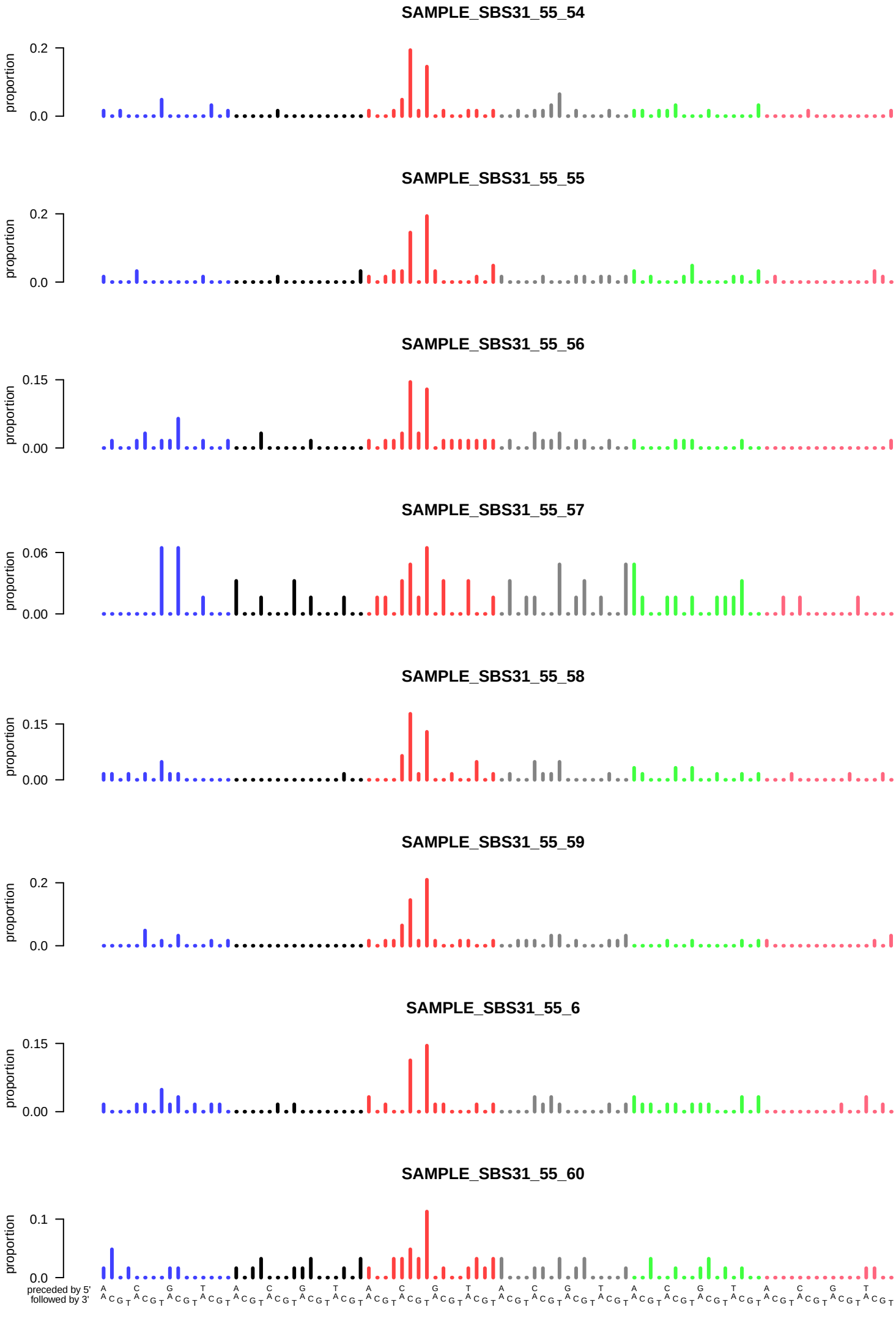

SAMPLE_SBS31_55_18
proportion
0.12
0.00
SAMPLE_SBS31_55_19
proportion
0.15
0.00
SAMPLE_SBS31_55_2
proportion
0.15
0.00
SAMPLE_SBS31_55_20
proportion
0.15
0.00
SAMPLE_SBS31_55_21
proportion
0.15
0.00
SAMPLE_SBS31_55_22
proportion
0.2
0.0
SAMPLE_SBS31_55_23
proportion
0.15
0.00
SAMPLE_SBS31_55_24
proportion
0.1
0.0
preceded by 5'
followed by 3'

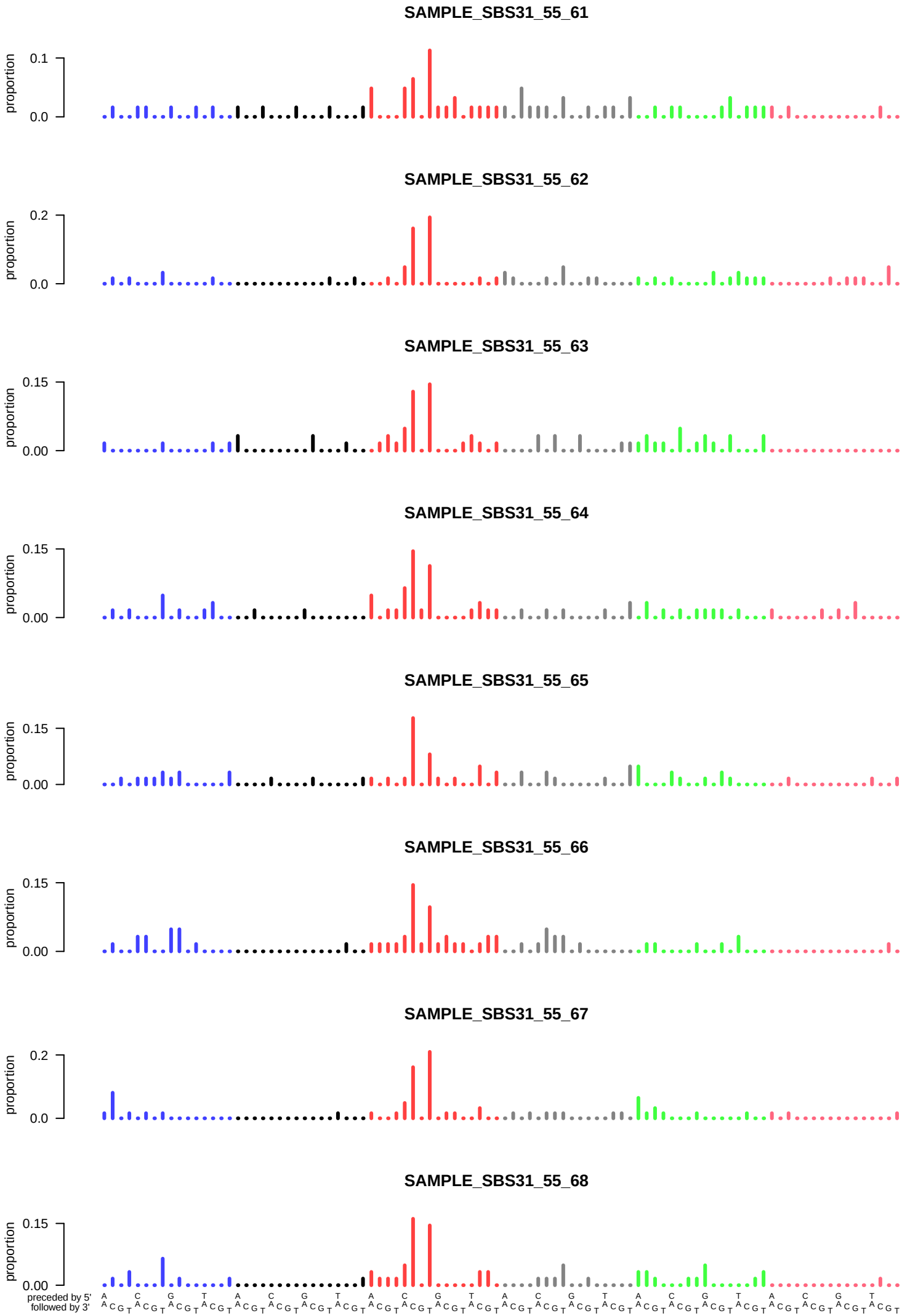

SAMPLE_SBS31_55_25
proportion
0.15
0.00
SAMPLE_SBS31_55_26
proportion
0.15
0.00
SAMPLE_SBS31_55_27
proportion
0.2
0.0
SAMPLE_SBS31_55_28
proportion
0.25
0.00
SAMPLE_SBS31_55_29
proportion
0.2
0.0
SAMPLE_SBS31_55_3
proportion
0.15
0.00
SAMPLE_SBS31_55_30
proportion
0.15
0.00
SAMPLE_SBS31_55_31
proportion
0.15
0.00
preceded by 5'
followed by 3'

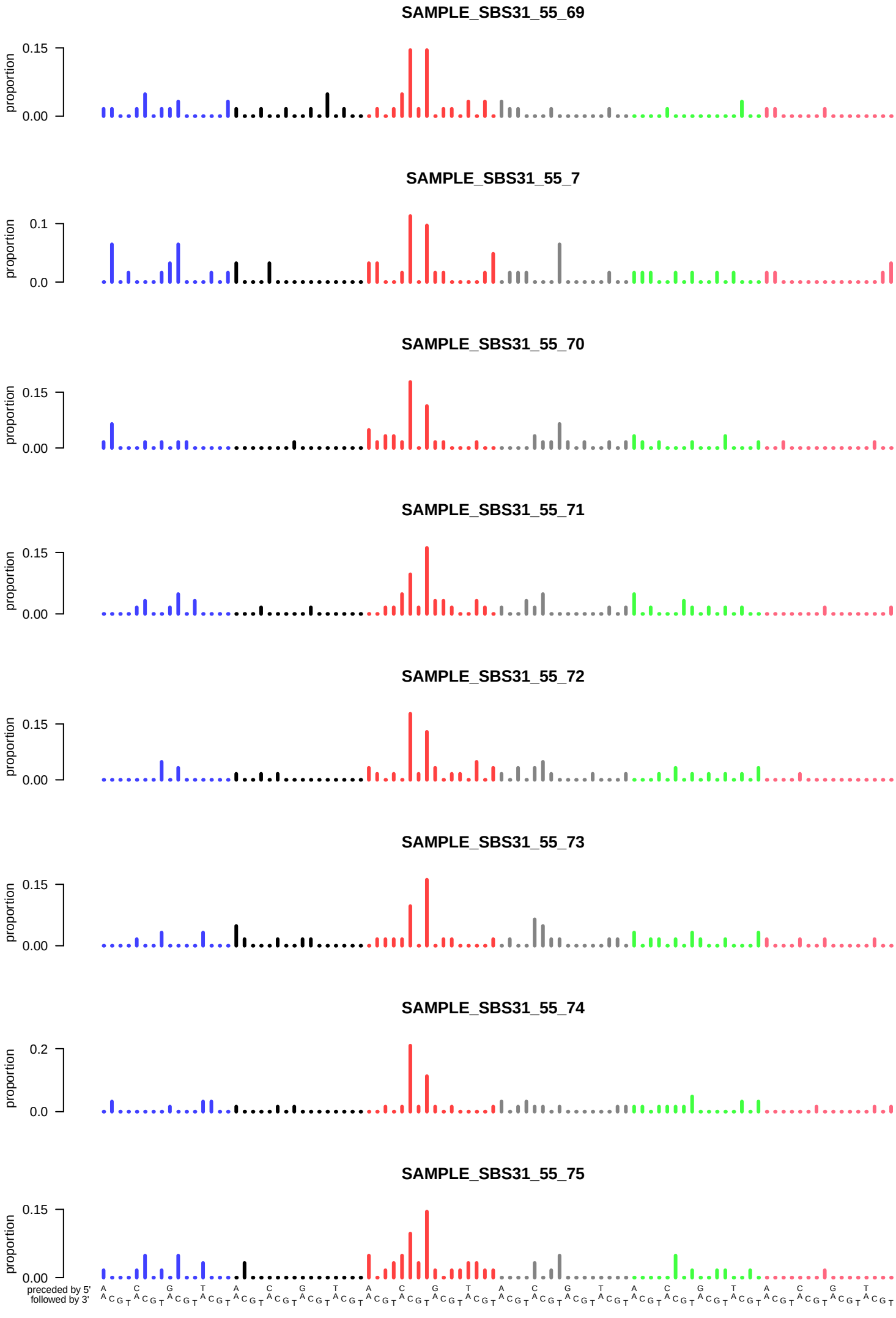

SAMPLE_SBS31_55_32
proportion
0.15
0.00
SAMPLE_SBS31_55_33
proportion
0.2
0.0
SAMPLE_SBS31_55_34
proportion
0.15
0.00
SAMPLE_SBS31_55_35
proportion
0.25
0.00
SAMPLE_SBS31_55_36
proportion
0.15
0.00
SAMPLE_SBS31_55_37
proportion
0.12
0.00
SAMPLE_SBS31_55_38
proportion
0.15
0.00
SAMPLE_SBS31_55_39
proportion
0.15
0.00
preceded by 5'
followed by 3'
A C G T

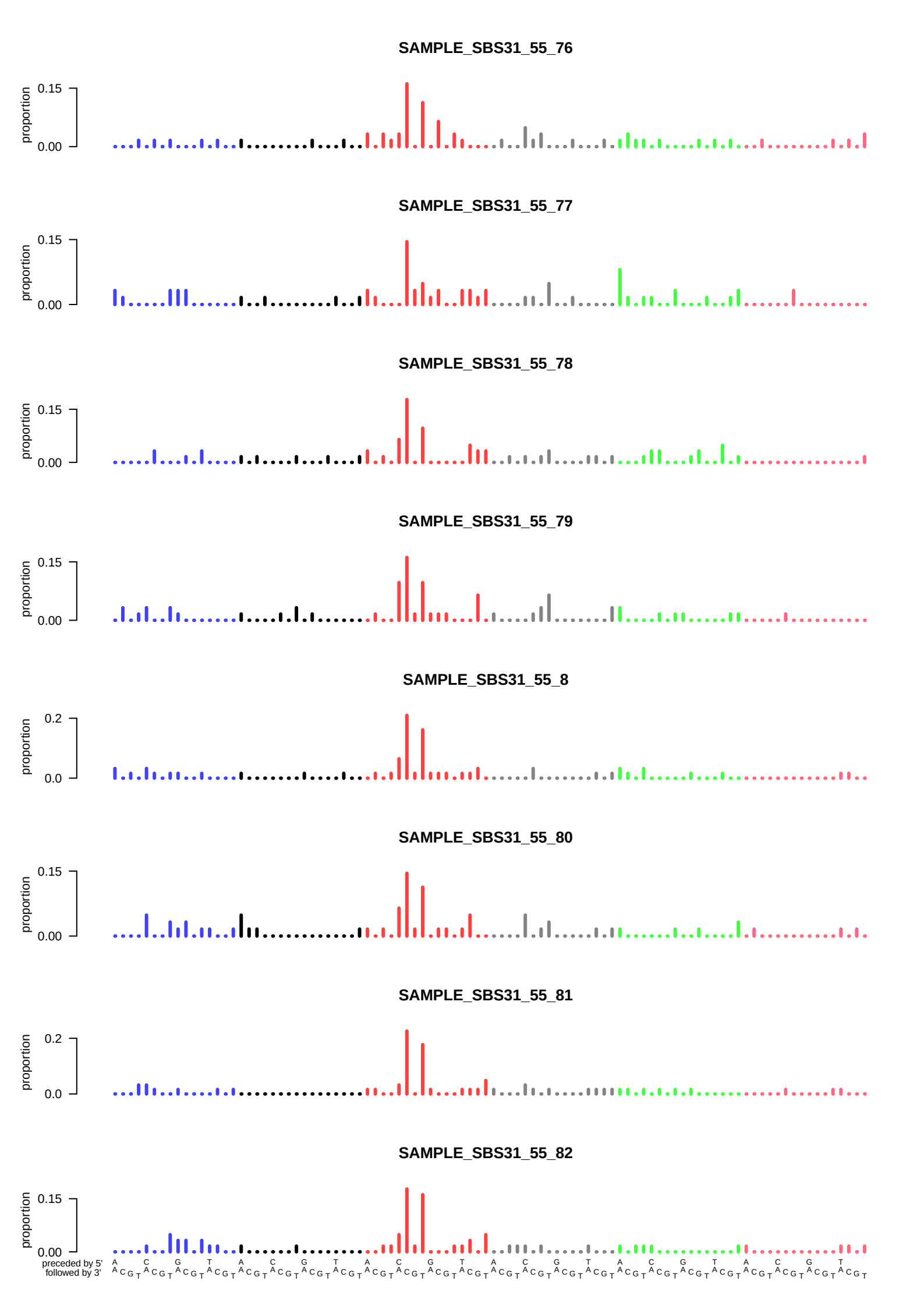

SAMPLE_SBS31_55_4
proportion
0.15
0.00
SAMPLE_SBS31_55_40
proportion
0.1
0.0
SAMPLE_SBS31_55_41
proportion
0.15
0.00
SAMPLE_SBS31_55_42
proportion
0.15
0.00
SAMPLE_SBS31_55_43
proportion
0.15
0.00
SAMPLE_SBS31_55_44
proportion
0.2
0.0
SAMPLE_SBS31_55_45
proportion
0.15
0.00
SAMPLE_SBS31_55_46
proportion
0.15
0.00
preceded by 5'
followed by 3'

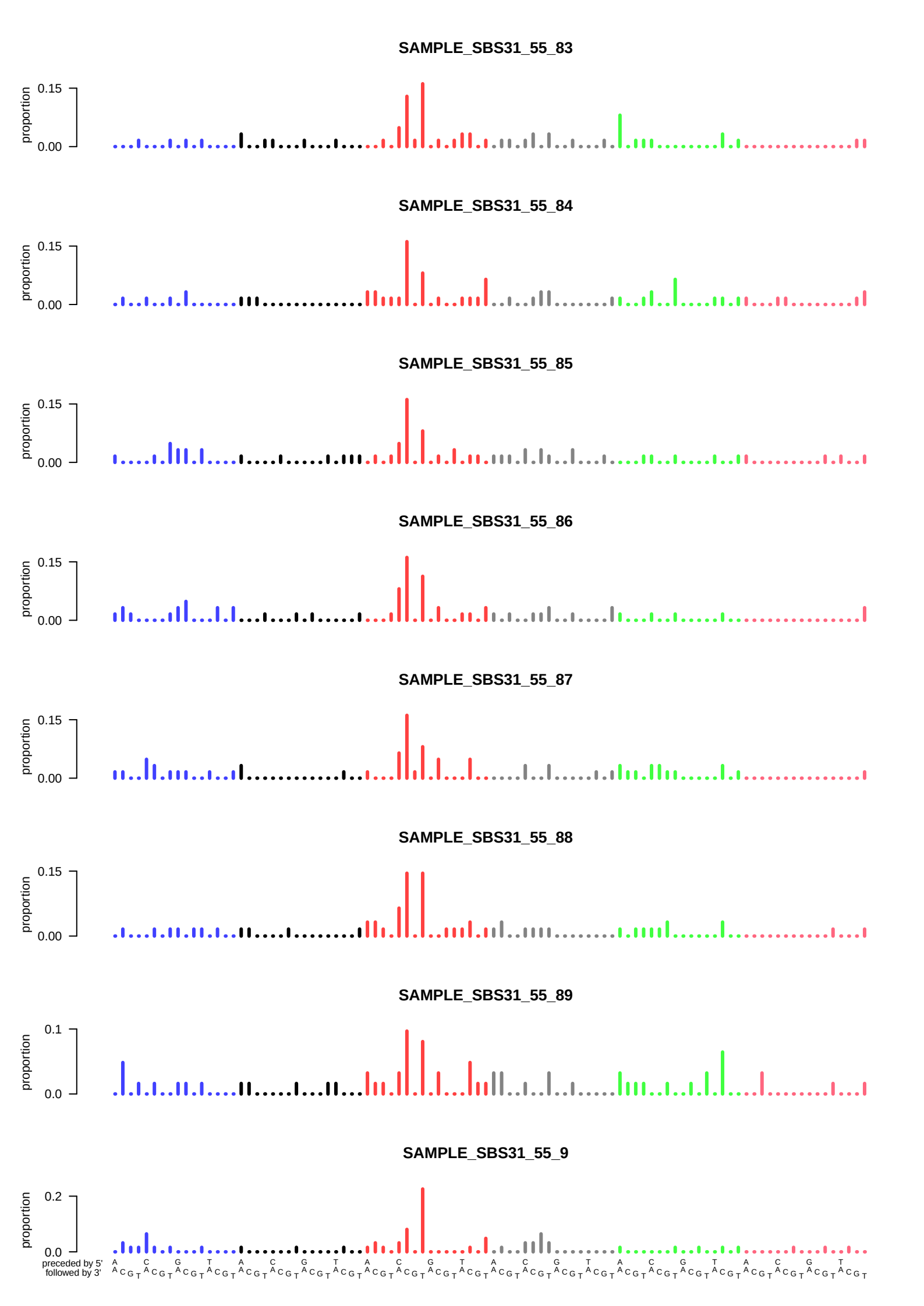

SAMPLE_SBS31_55_47
proportion
0.3
0.0
SAMPLE_SBS31_55_48
proportion
0.15
0.00
SAMPLE_SBS31_55_49
proportion
0.1
0.0
SAMPLE_SBS31_55_5
proportion
0.2
0.0
SAMPLE_SBS31_55_50
proportion
0.2
0.0
SAMPLE_SBS31_55_51
proportion
0.2
0.0
SAMPLE_SBS31_55_52
proportion
0.25
0.00
SAMPLE_SBS31_55_53
proportion
0.15
0.00
preceded by 5'
followed by 3'

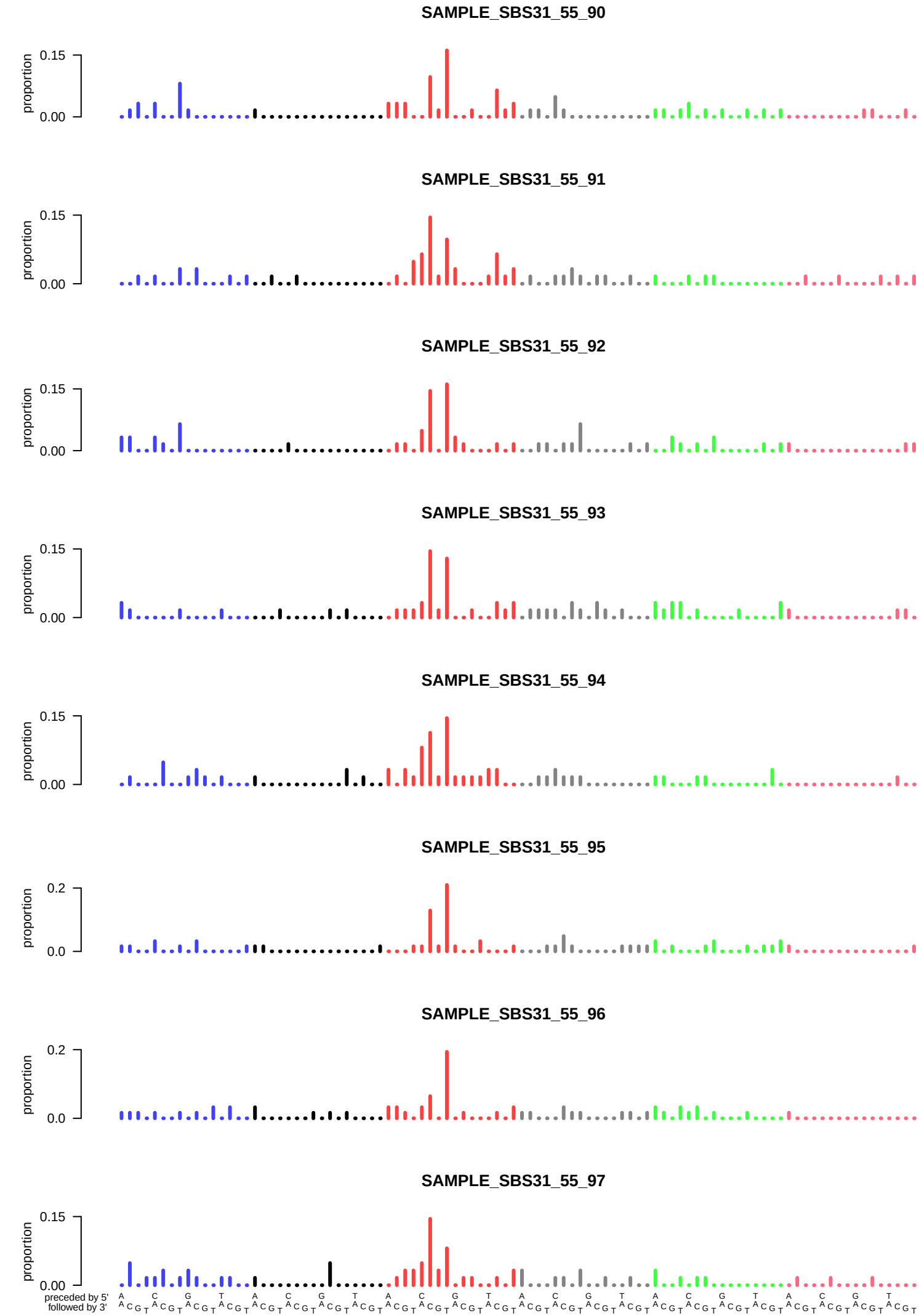

SAMPLE_SBS31_55_54
proportion
0.2
0.0
SAMPLE_SBS31_55_55
proportion
0.2
0.0
SAMPLE_SBS31_55_56
proportion
0.15
0.00
SAMPLE_SBS31_55_57
proportion
0.06
0.00
SAMPLE_SBS31_55_58
proportion
0.15
0.00
SAMPLE_SBS31_55_59
proportion
0.2
0.0
SAMPLE_SBS31_55_6
proportion
0.15
0.00
SAMPLE_SBS31_55_60
proportion
0.1
0.0
preceded by 5'
followed by 3'

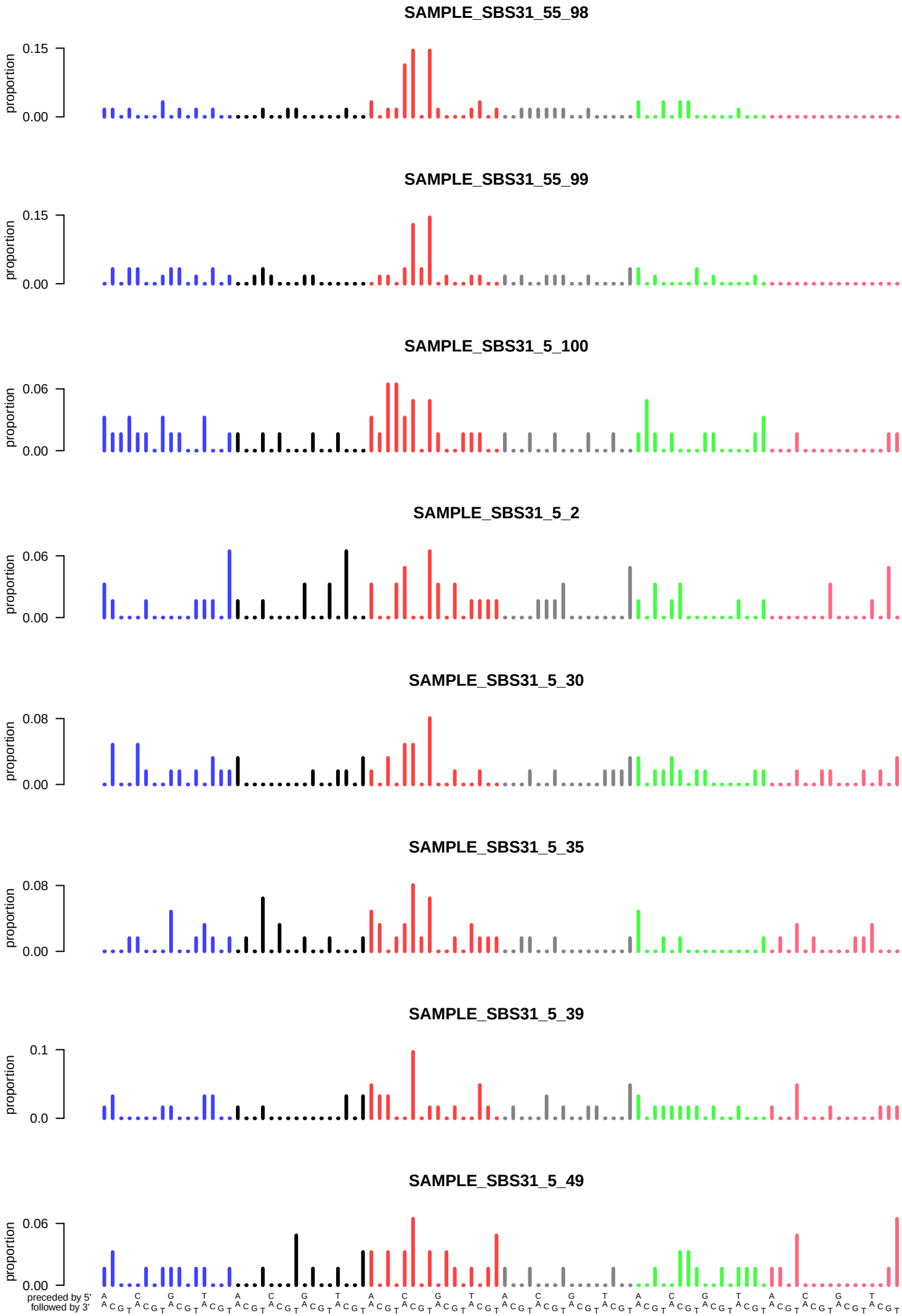

SAMPLE_SBS31_55_61
proportion
0.1
0.0
SAMPLE_SBS31_55_62
proportion
0.2
0.0
SAMPLE_SBS31_55_63
proportion
0.15
0.00
SAMPLE_SBS31_55_64
proportion
0.15
0.00
SAMPLE_SBS31_55_65
proportion
0.15
0.00
SAMPLE_SBS31_55_66
proportion
0.15
0.00
SAMPLE_SBS31_55_67
proportion
0.2
0.0
SAMPLE_SBS31_55_68
proportion
0.15
0.00
preceded by 5'
followed by 3'

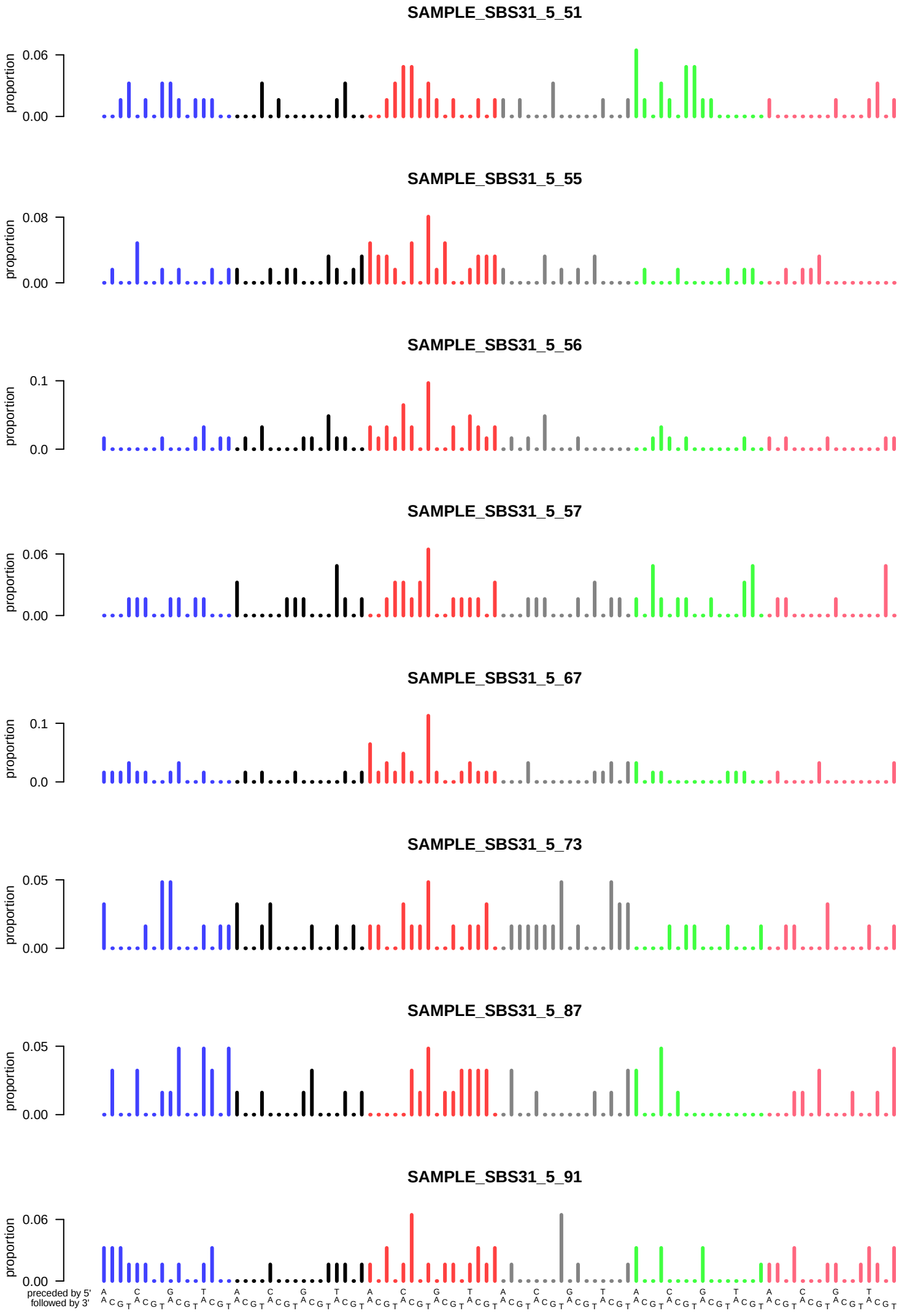

SAMPLE_SBS31_55_69
proportion
0.15
0.00
SAMPLE_SBS31_55_7
proportion
0.1
0.0
SAMPLE_SBS31_55_70
proportion
0.15
0.00
SAMPLE_SBS31_55_71
proportion
0.15
0.00
SAMPLE_SBS31_55_72
proportion
0.15
0.00
SAMPLE_SBS31_55_73
proportion
0.15
0.00
SAMPLE_SBS31_55_74
proportion
0.2
0.0
SAMPLE_SBS31_55_75
proportion
0.15
0.00
preceded by 5'
followed by 3'

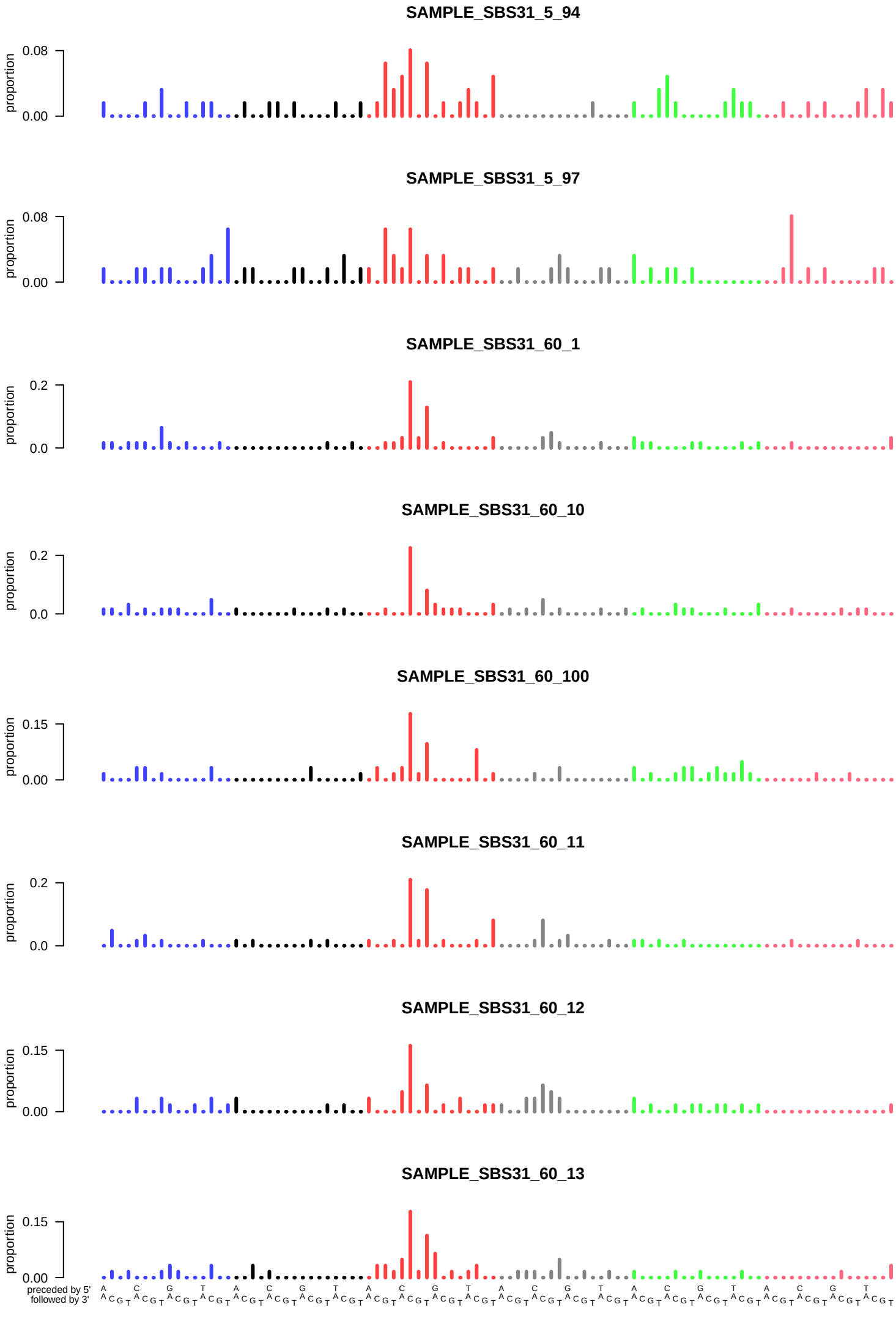

SAMPLE_SBS31_55_76
SAMPLE_SBS31_55_77
SAMPLE_SBS31_55_78
SAMPLE_SBS31_55_79
SAMPLE_SBS31_55_8
SAMPLE_SBS31_55_80
SAMPLE_SBS31_55_81
SAMPLE_SBS31_55_82
proportion
0.15
0.00
0.2
0.0
preceded by 5'
followed by 3'

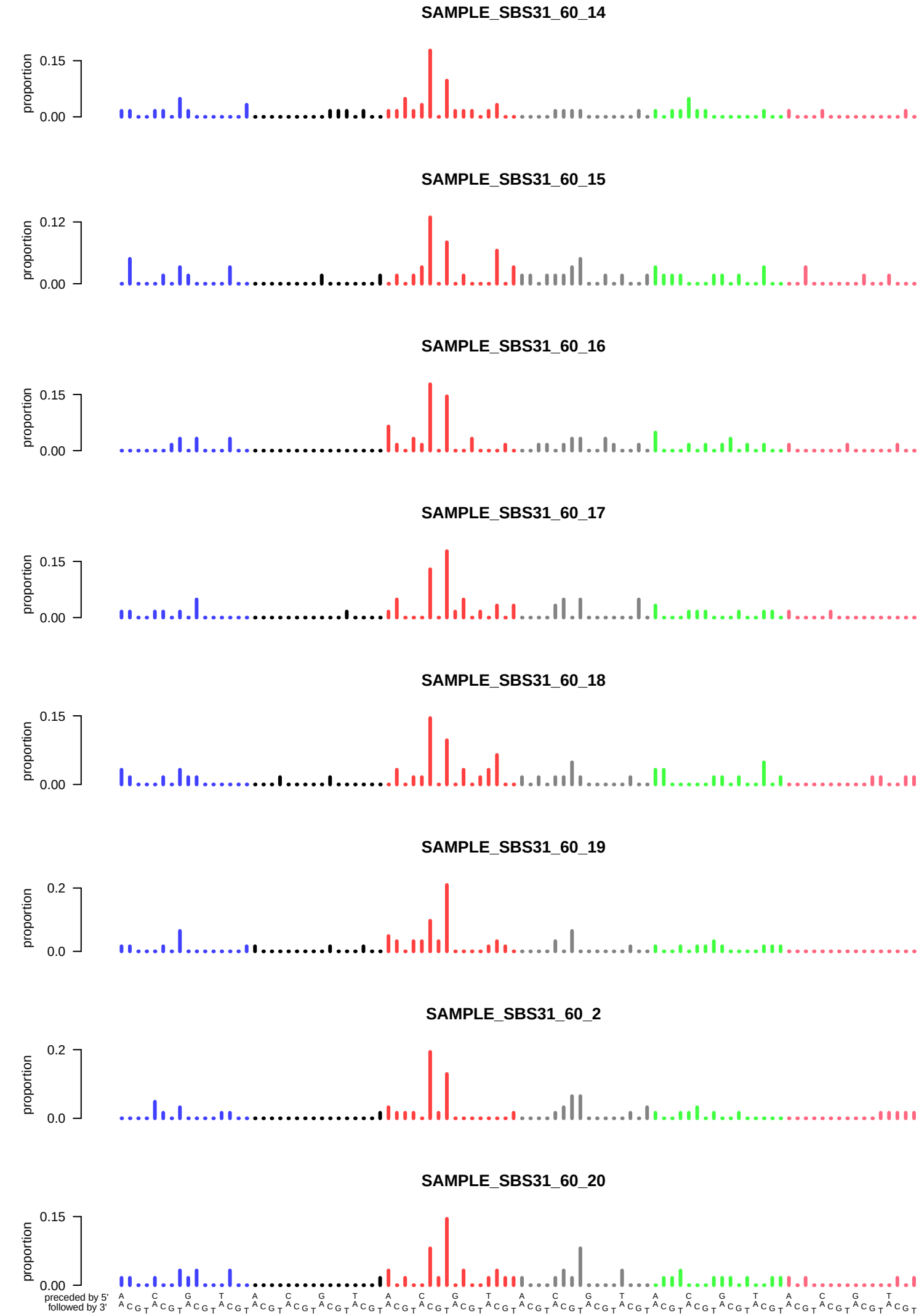

SAMPLE_SBS31_55_83
proportion
0.15
0.00
SAMPLE_SBS31_55_84
proportion
0.15
0.00
SAMPLE_SBS31_55_85
proportion
0.15
0.00
SAMPLE_SBS31_55_86
proportion
0.15
0.00
SAMPLE_SBS31_55_87
proportion
0.15
0.00
SAMPLE_SBS31_55_88
proportion
0.15
0.00
SAMPLE_SBS31_55_89
proportion
0.1
0.0
SAMPLE_SBS31_55_9
proportion
0.2
0.0
preceded by 5'
followed by 3'

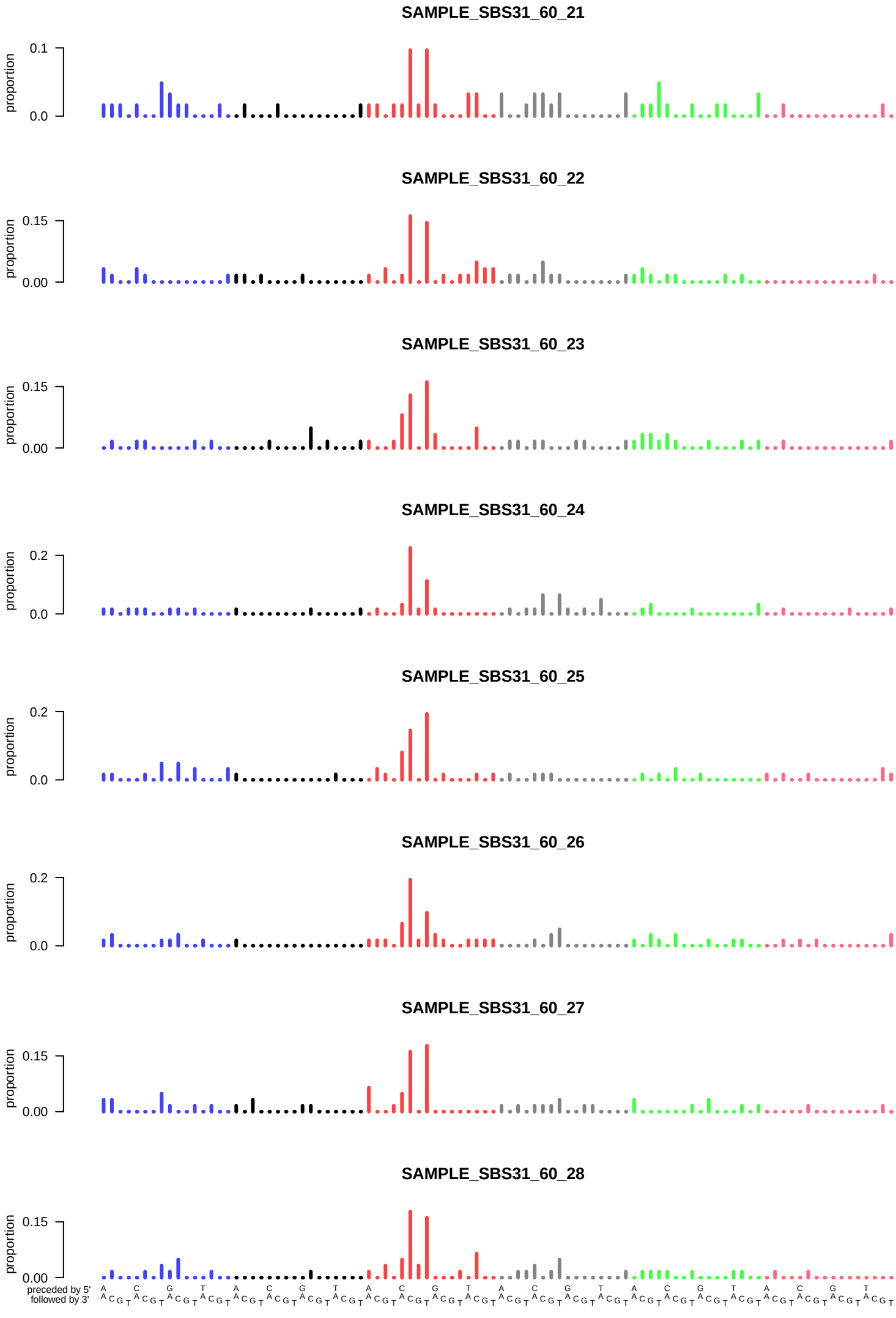

SAMPLE_SBS31_55_90
SAMPLE_SBS31_55_91
SAMPLE_SBS31_55_92
SAMPLE_SBS31_55_93
SAMPLE_SBS31_55_94
SAMPLE_SBS31_55_95
SAMPLE_SBS31_55_96
SAMPLE_SBS31_55_97
proportion
0.15
0.00
0.2
0.0
preceded by 5'
followed by 3'
A C G T

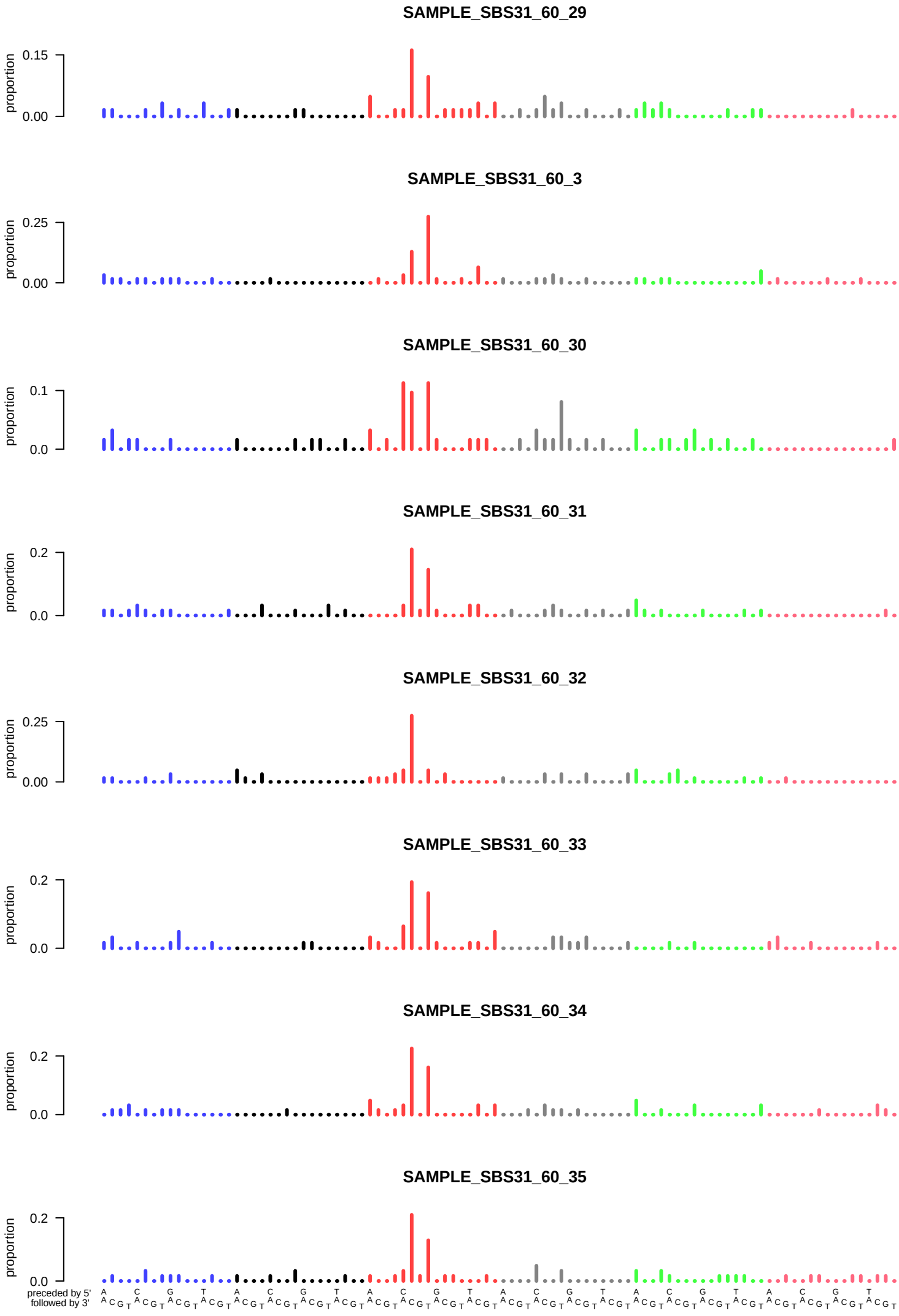

SAMPLE_SBS31_55_98
proportion
0.15
0.00
SAMPLE_SBS31_55_99
proportion
0.15
0.00
SAMPLE_SBS31_5_100
proportion
0.06
0.00
SAMPLE_SBS31_5_2
proportion
0.06
0.00
SAMPLE_SBS31_5_30
proportion
0.08
0.00
SAMPLE_SBS31_5_35
proportion
0.08
0.00
SAMPLE_SBS31_5_39
proportion
0.1
0.0
SAMPLE_SBS31_5_49
proportion
0.06
0.00
preceded by 5'
followed by 3'

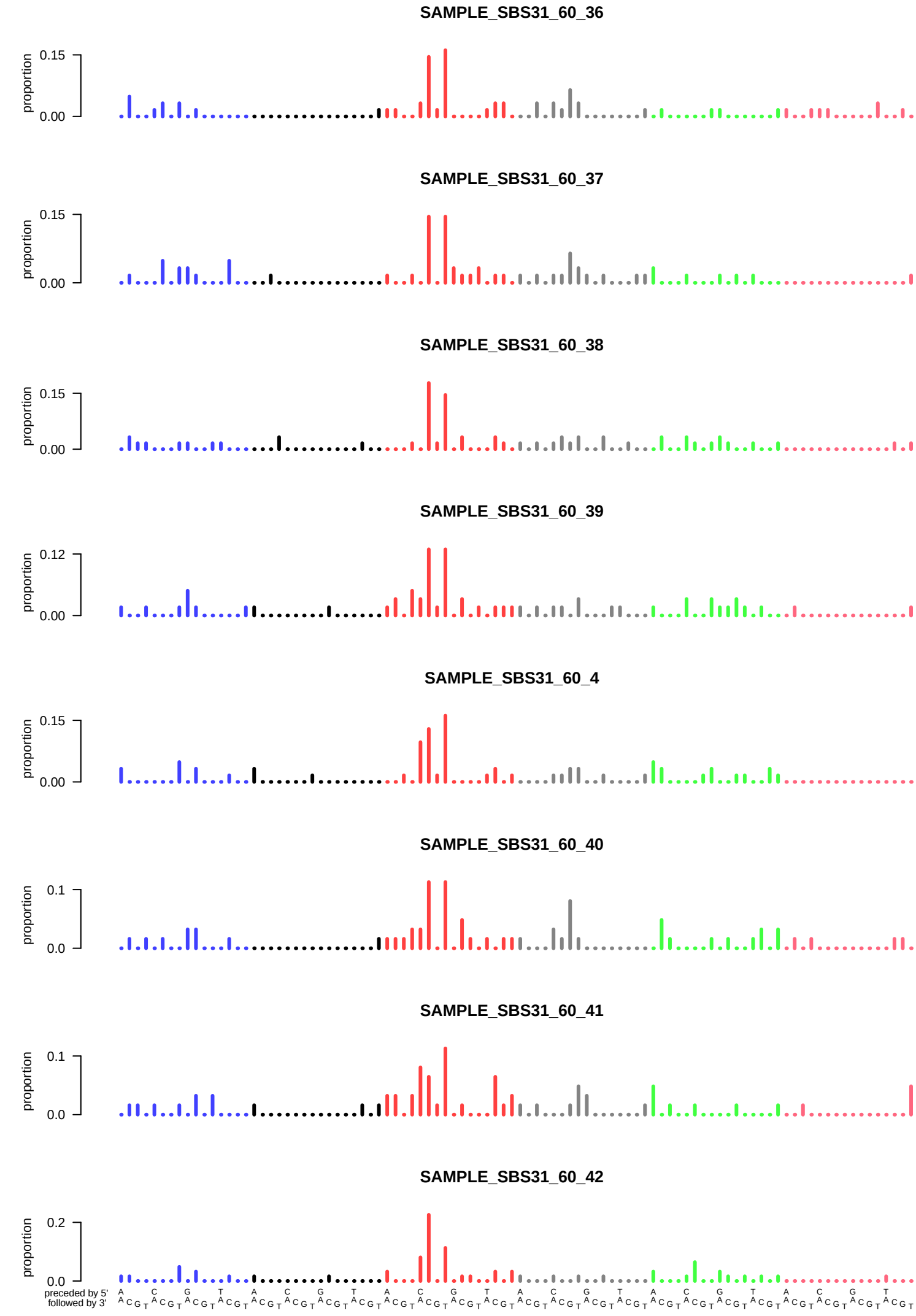

SAMPLE_SBS31_5_51
proportion
0.06
0.00
SAMPLE_SBS31_5_55
proportion
0.08
0.00
SAMPLE_SBS31_5_56
proportion
0.1
0.0
SAMPLE_SBS31_5_57
proportion
0.06
0.00
SAMPLE_SBS31_5_67
proportion
0.1
0.0
SAMPLE_SBS31_5_73
proportion
0.05
0.00
SAMPLE_SBS31_5_87
proportion
0.05
0.00
SAMPLE_SBS31_5_91
proportion
0.06
0.00
preceded by 5'
followed by 3'

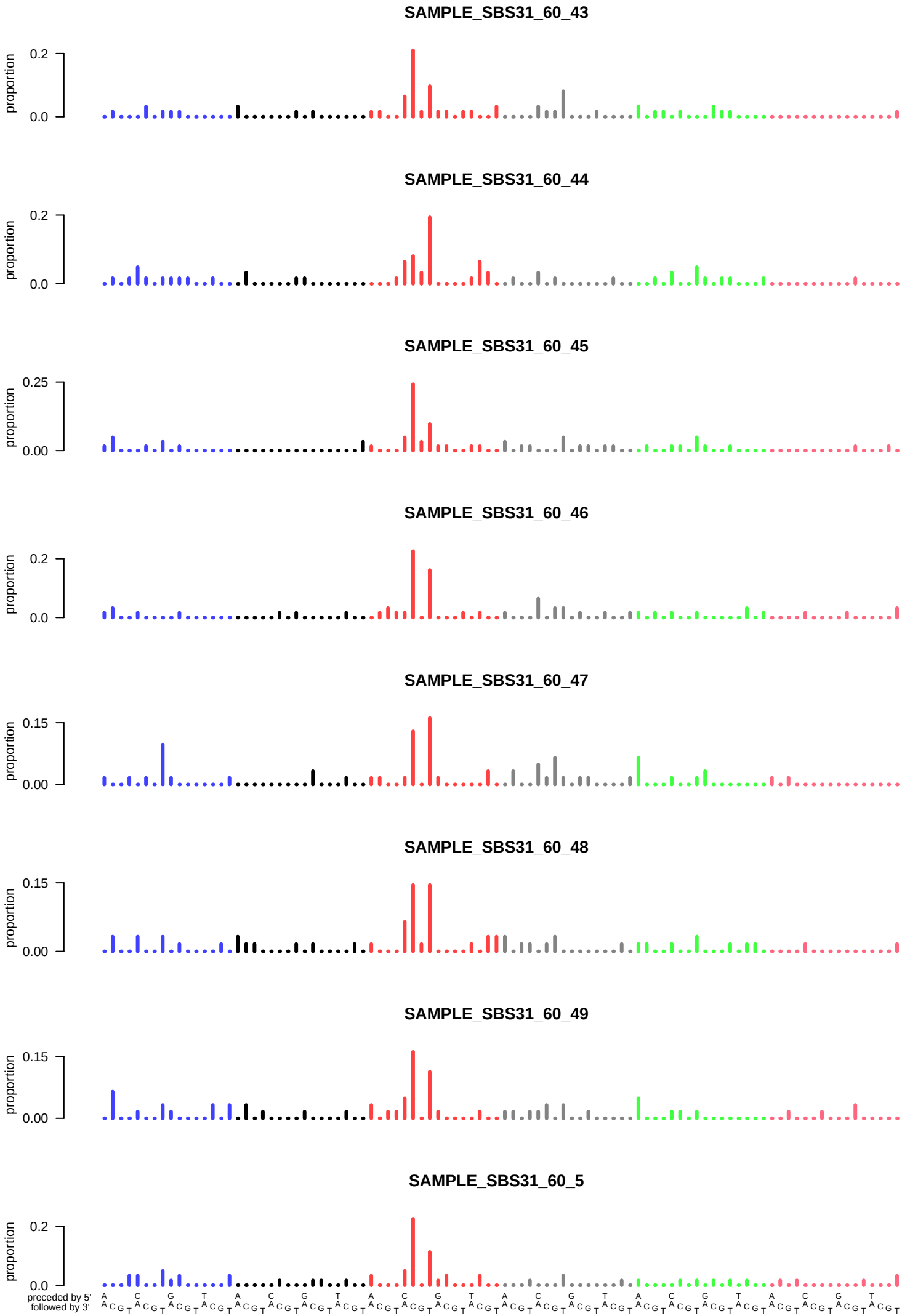

SAMPLE_SBS31_5_94
proportion
0.08
0.00
SAMPLE_SBS31_5_97
proportion
0.08
0.00
SAMPLE_SBS31_60_1
proportion
0.2
0.0
SAMPLE_SBS31_60_10
proportion
0.2
0.0
SAMPLE_SBS31_60_100
proportion
0.15
0.00
SAMPLE_SBS31_60_11
proportion
0.2
0.0
SAMPLE_SBS31_60_12
proportion
0.15
0.00
SAMPLE_SBS31_60_13
proportion
0.15
0.00
preceded by 5'
followed by 3'

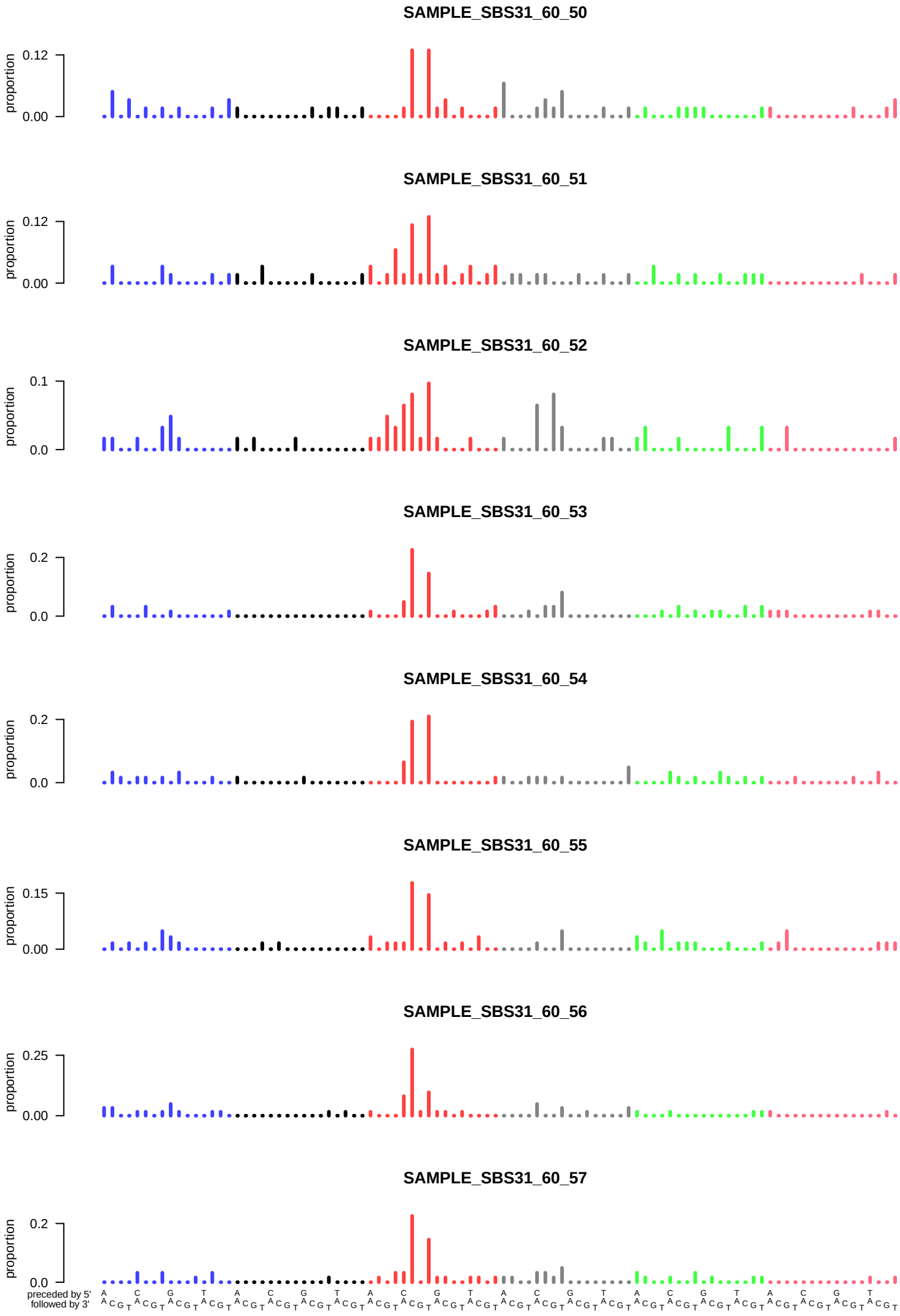

SAMPLE_SBS31_60_14
proportion
0.15
0.00
SAMPLE_SBS31_60_15
proportion
0.12
0.00
SAMPLE_SBS31_60_16
proportion
0.15
0.00
SAMPLE_SBS31_60_17
proportion
0.15
0.00
SAMPLE_SBS31_60_18
proportion
0.15
0.00
SAMPLE_SBS31_60_19
proportion
0.2
0.0
SAMPLE_SBS31_60_2
proportion
0.2
0.0
SAMPLE_SBS31_60_20
proportion
0.15
0.00
preceded by 5'
followed by 3'

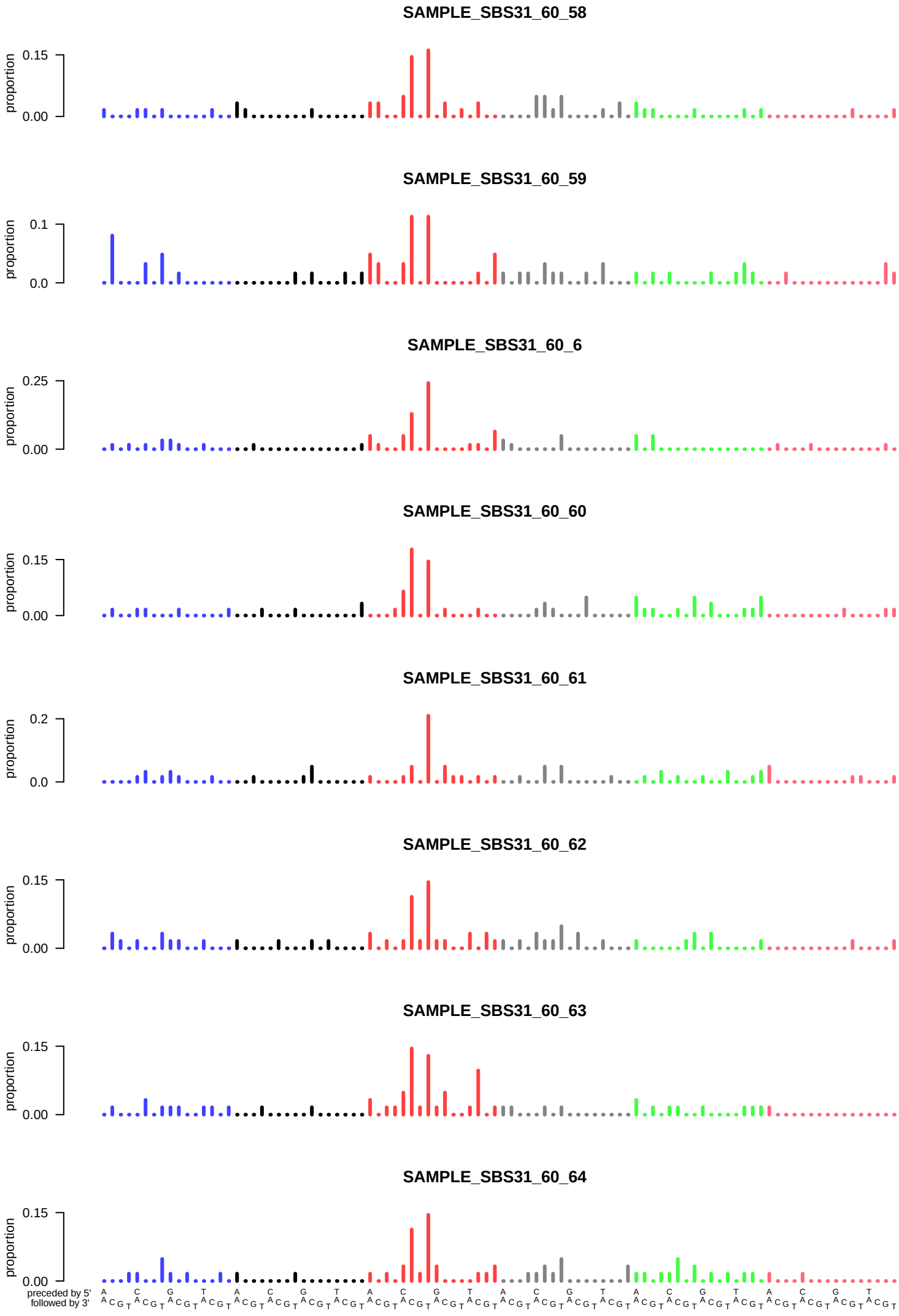

SAMPLE_SBS31_60_21
proportion
0.1
0.0
SAMPLE_SBS31_60_22
proportion
0.15
0.00
SAMPLE_SBS31_60_23
proportion
0.15
0.00
SAMPLE_SBS31_60_24
proportion
0.2
0.0
SAMPLE_SBS31_60_25
proportion
0.2
0.0
SAMPLE_SBS31_60_26
proportion
0.2
0.0
SAMPLE_SBS31_60_27
proportion
0.15
0.00
SAMPLE_SBS31_60_28
proportion
0.15
0.00
preceded by 5'
followed by 3'

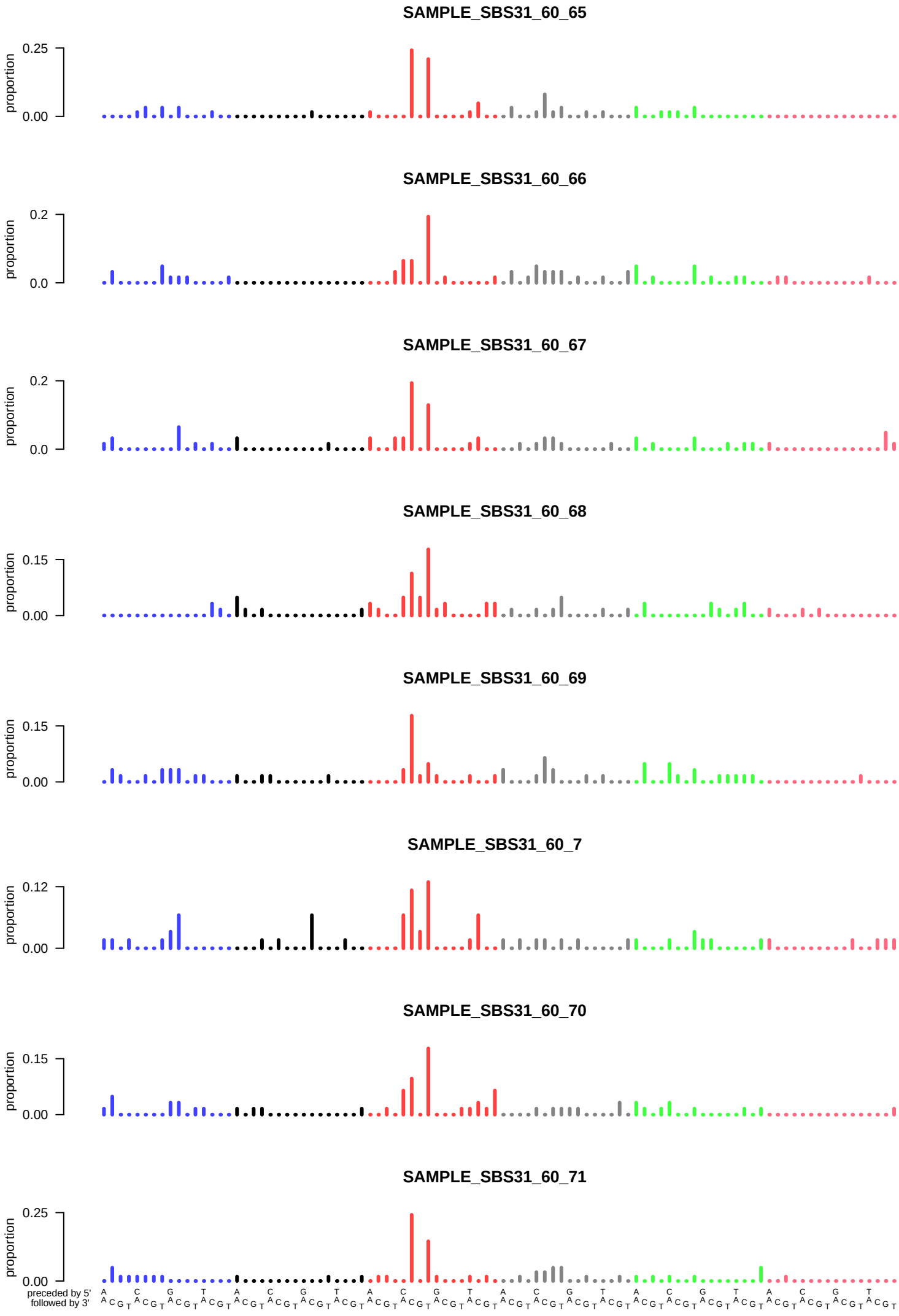

SAMPLE_SBS31_60_29
proportion
0.15
0.00
SAMPLE_SBS31_60_3
proportion
0.25
0.00
SAMPLE_SBS31_60_30
proportion
0.1
0.0
SAMPLE_SBS31_60_31
proportion
0.2
0.0
SAMPLE_SBS31_60_32
proportion
0.25
0.00
SAMPLE_SBS31_60_33
proportion
0.2
0.0
SAMPLE_SBS31_60_34
proportion
0.2
0.0
SAMPLE_SBS31_60_35
proportion
0.2
0.0
preceded by 5'
followed by 3'

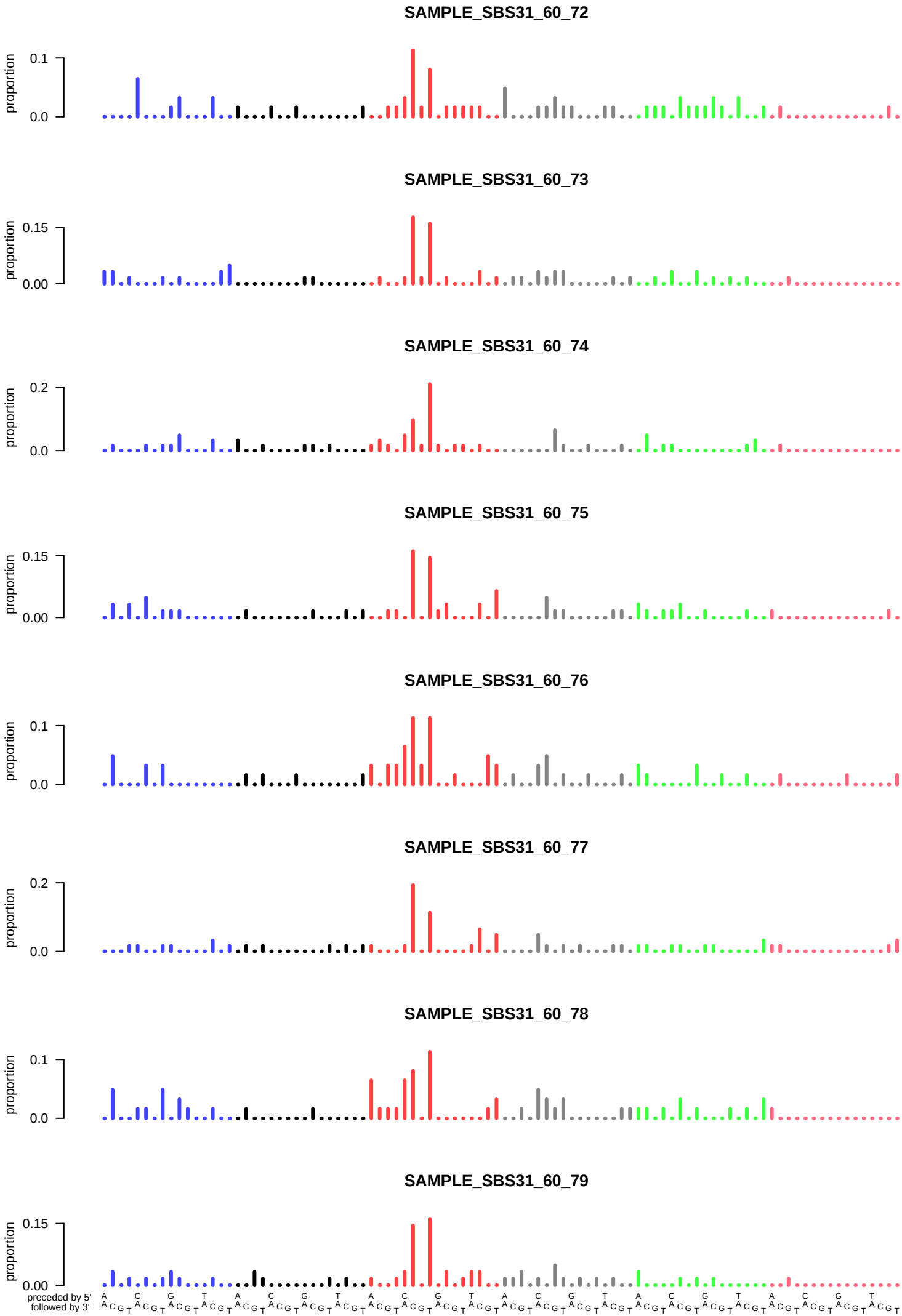

SAMPLE_SBS31_60_36
proportion
0.15
0.00
SAMPLE_SBS31_60_37
proportion
0.15
0.00
SAMPLE_SBS31_60_38
proportion
0.15
0.00
SAMPLE_SBS31_60_39
proportion
0.12
0.00
SAMPLE_SBS31_60_4
proportion
0.15
0.00
SAMPLE_SBS31_60_40
proportion
0.1
0.0
SAMPLE_SBS31_60_41
proportion
0.1
0.0
SAMPLE_SBS31_60_42
proportion
0.2
0.0
preceded by 5'
followed by 3'

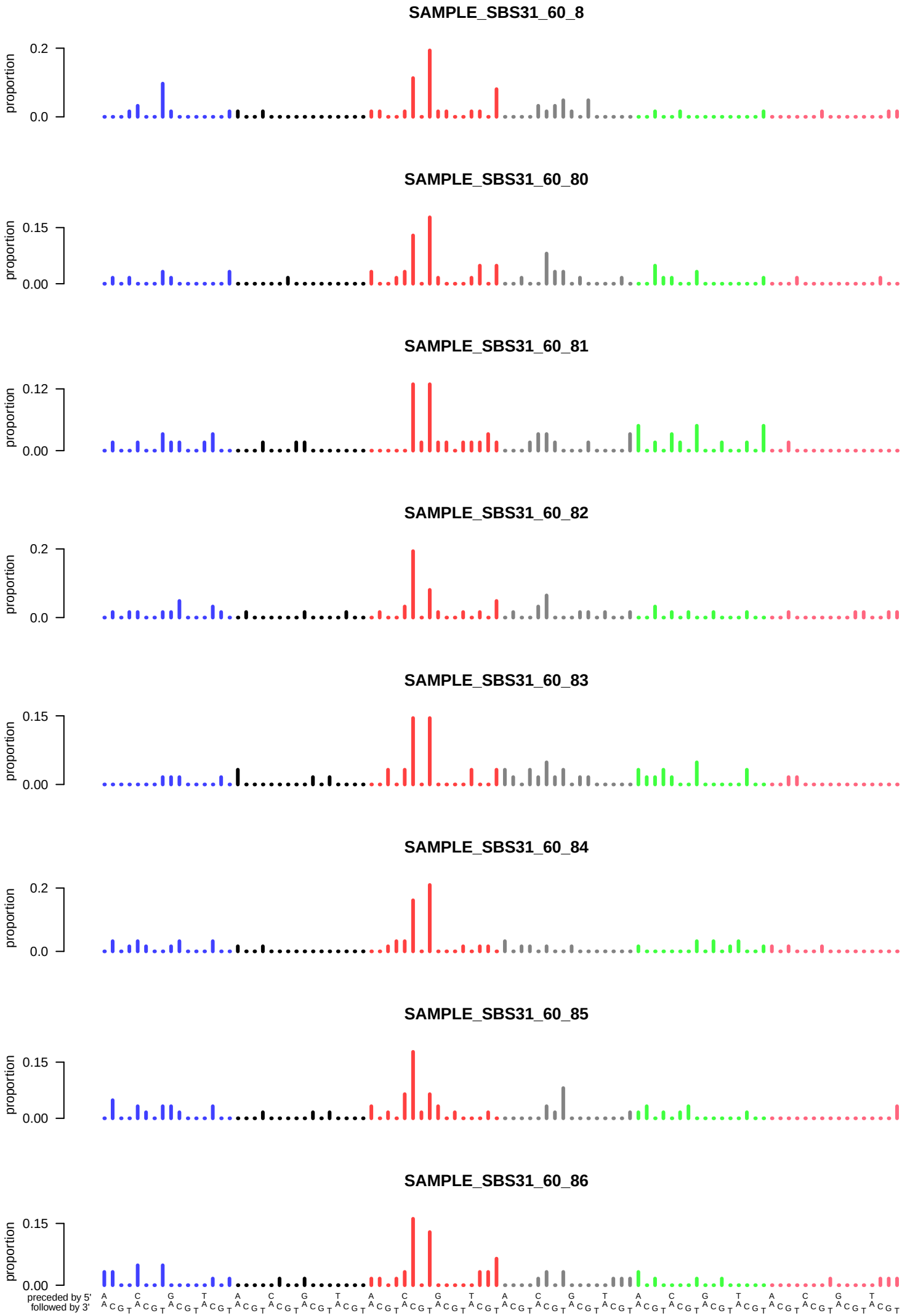

SAMPLE_SBS31_60_43
proportion
0.2
0.0
SAMPLE_SBS31_60_44
proportion
0.2
0.0
SAMPLE_SBS31_60_45
proportion
0.25
0.00
SAMPLE_SBS31_60_46
proportion
0.2
0.0
SAMPLE_SBS31_60_47
proportion
0.15
0.00
SAMPLE_SBS31_60_48
proportion
0.15
0.00
SAMPLE_SBS31_60_49
proportion
0.15
0.00
SAMPLE_SBS31_60_5
proportion
0.2
0.0
preceded by 5'
followed by 3'

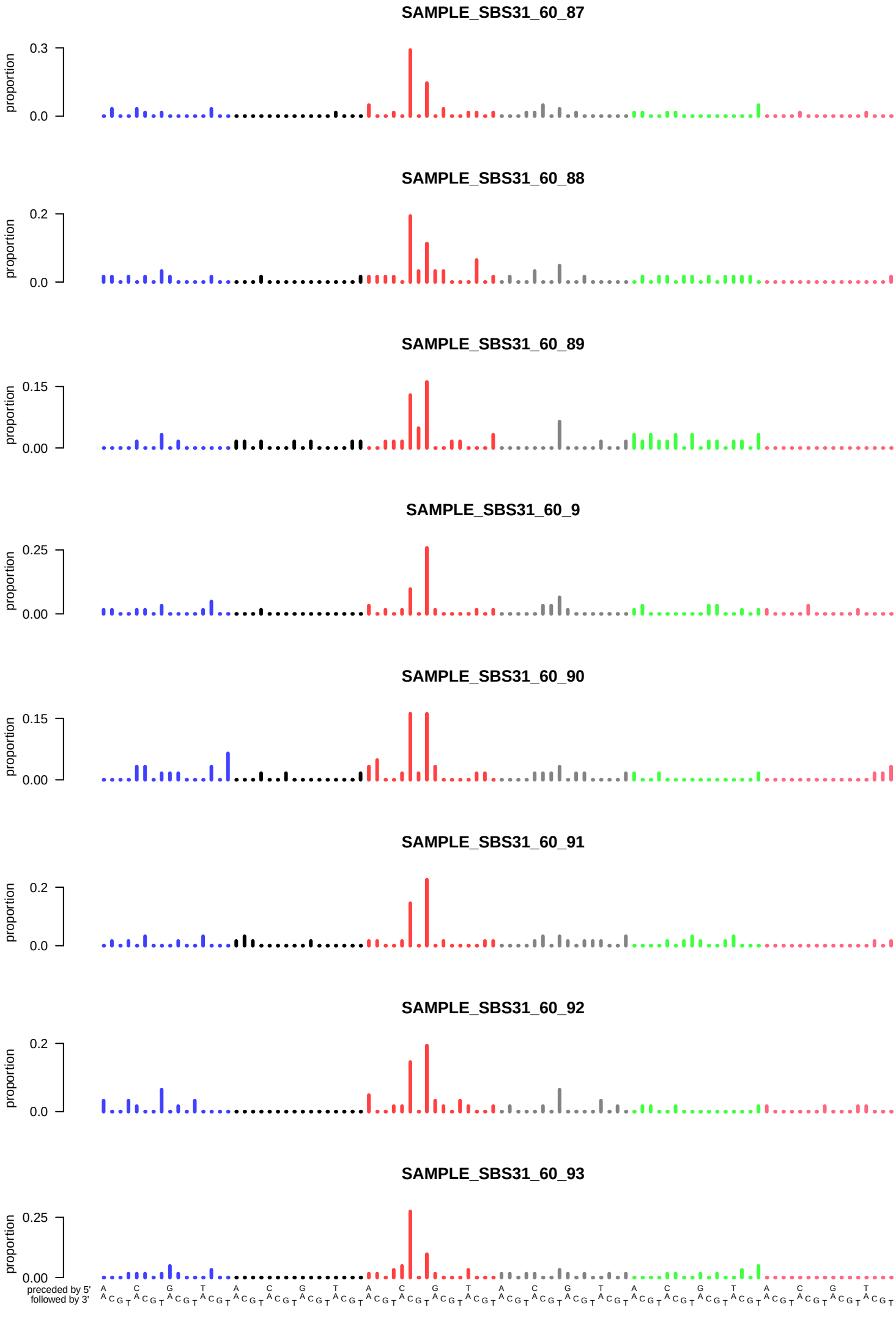

SAMPLE_SBS31_60_50
proportion
0.12
0.00
SAMPLE_SBS31_60_51
proportion
0.12
0.00
SAMPLE_SBS31_60_52
proportion
0.1
0.0
SAMPLE_SBS31_60_53
proportion
0.2
0.0
SAMPLE_SBS31_60_54
proportion
0.2
0.0
SAMPLE_SBS31_60_55
proportion
0.15
0.00
SAMPLE_SBS31_60_56
proportion
0.25
0.00
SAMPLE_SBS31_60_57
proportion
0.2
0.0
preceded by 5'
followed by 3'

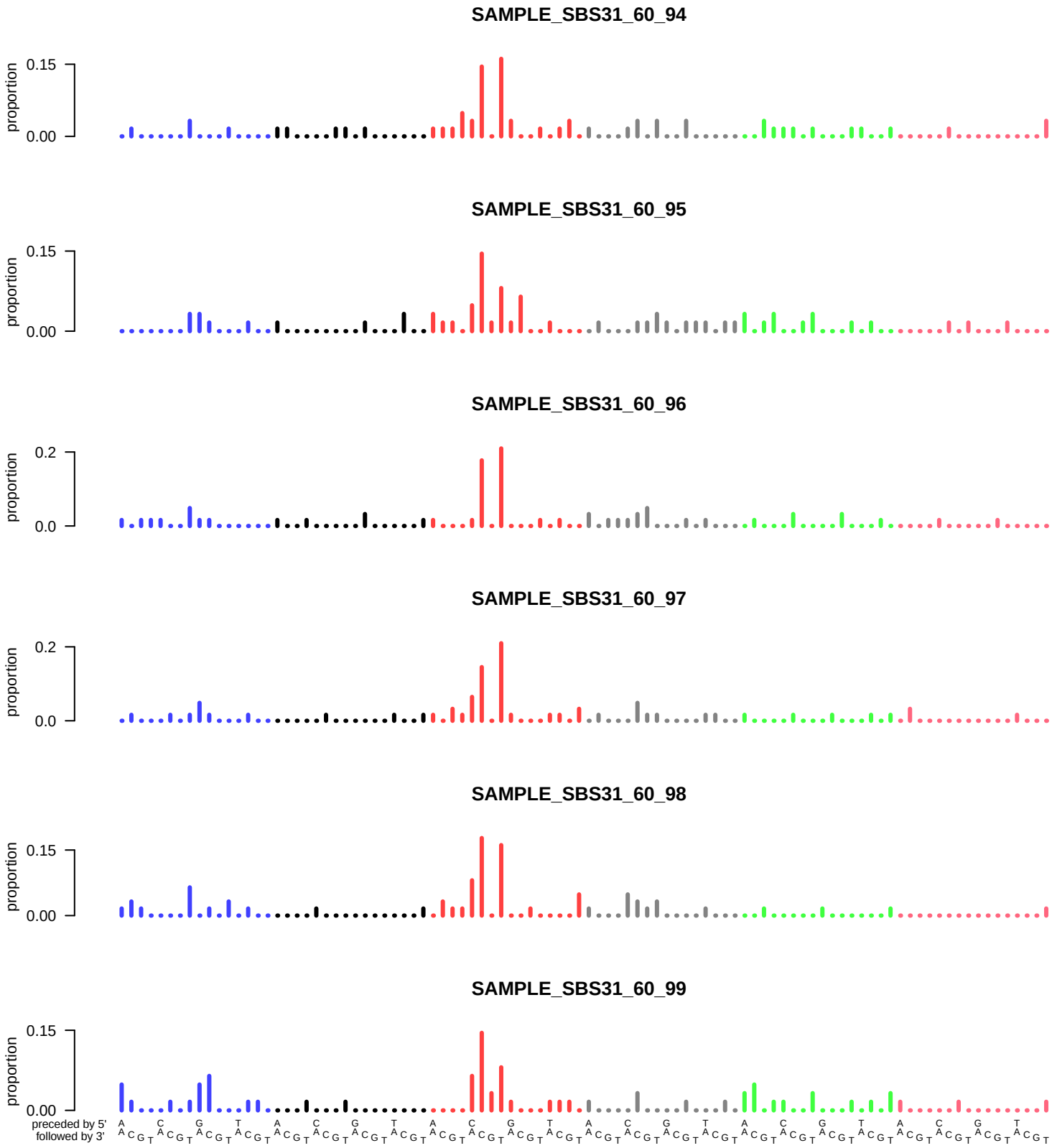

SAMPLE_SBS31_60_58
proportion
0.15
0.00
SAMPLE_SBS31_60_59
proportion
0.1
0.0
SAMPLE_SBS31_60_6
proportion
0.25
0.00
SAMPLE_SBS31_60_60
proportion
0.15
0.00
SAMPLE_SBS31_60_61
proportion
0.2
0.0
SAMPLE_SBS31_60_62
proportion
0.15
0.00
SAMPLE_SBS31_60_63
proportion
0.15
0.00
SAMPLE_SBS31_60_64
proportion
0.15
0.00
preceded by 5'
followed by 3'


SAMPLE_SBS31_60_65
proportion
0.25
0.00
SAMPLE_SBS31_60_66
proportion
0.2
0.0
SAMPLE_SBS31_60_67
proportion
0.2
0.0
SAMPLE_SBS31_60_68
proportion
0.15
0.00
SAMPLE_SBS31_60_69
proportion
0.15
0.00
SAMPLE_SBS31_60_7
proportion
0.12
0.00
SAMPLE_SBS31_60_70
proportion
0.15
0.00
SAMPLE_SBS31_60_71
proportion
0.25
0.00
preceded by 5'
followed by 3'


SAMPLE_SBS31_60_72
proportion
0.1
0.0
SAMPLE_SBS31_60_73
proportion
0.15
0.00
SAMPLE_SBS31_60_74
proportion
0.2
0.0
SAMPLE_SBS31_60_75
proportion
0.15
0.00
SAMPLE_SBS31_60_76
proportion
0.1
0.0
SAMPLE_SBS31_60_77
proportion
0.2
0.0
SAMPLE_SBS31_60_78
proportion
0.1
0.0
SAMPLE_SBS31_60_79
proportion
0.15
0.00
preceded by 5'
followed by 3'


SAMPLE_SBS31_60_8
proportion
0.2
0.0
SAMPLE_SBS31_60_80
proportion
0.15
0.00
SAMPLE_SBS31_60_81
proportion
0.12
0.00
SAMPLE_SBS31_60_82
proportion
0.2
0.0
SAMPLE_SBS31_60_83
proportion
0.15
0.00
SAMPLE_SBS31_60_84
proportion
0.2
0.0
SAMPLE_SBS31_60_85
proportion
0.15
0.00
SAMPLE_SBS31_60_86
proportion
0.15
0.00
preceded by 5'
followed by 3'


SAMPLE_SBS31_60_87
proportion
0.3
0.0
SAMPLE_SBS31_60_88
proportion
0.2
0.0
SAMPLE_SBS31_60_89
proportion
0.15
0.00
SAMPLE_SBS31_60_9
proportion
0.25
0.00
SAMPLE_SBS31_60_90
proportion
0.15
0.00
SAMPLE_SBS31_60_91
proportion
0.2
0.0
SAMPLE_SBS31_60_92
proportion
0.2
0.0
SAMPLE_SBS31_60_93
proportion
0.25
0.00
preceded by 5'
followed by 3'


SAMPLE_SBS31_60_94
proportion
0.15
0.00
SAMPLE_SBS31_60_95
proportion
0.15
0.00
SAMPLE_SBS31_60_96
proportion
0.2
0.0
SAMPLE_SBS31_60_97
proportion
0.2
0.0
SAMPLE_SBS31_60_98
proportion
0.15
0.00
SAMPLE_SBS31_60_99
proportion
0.15
0.00
preceded by 5'
followed by 3'