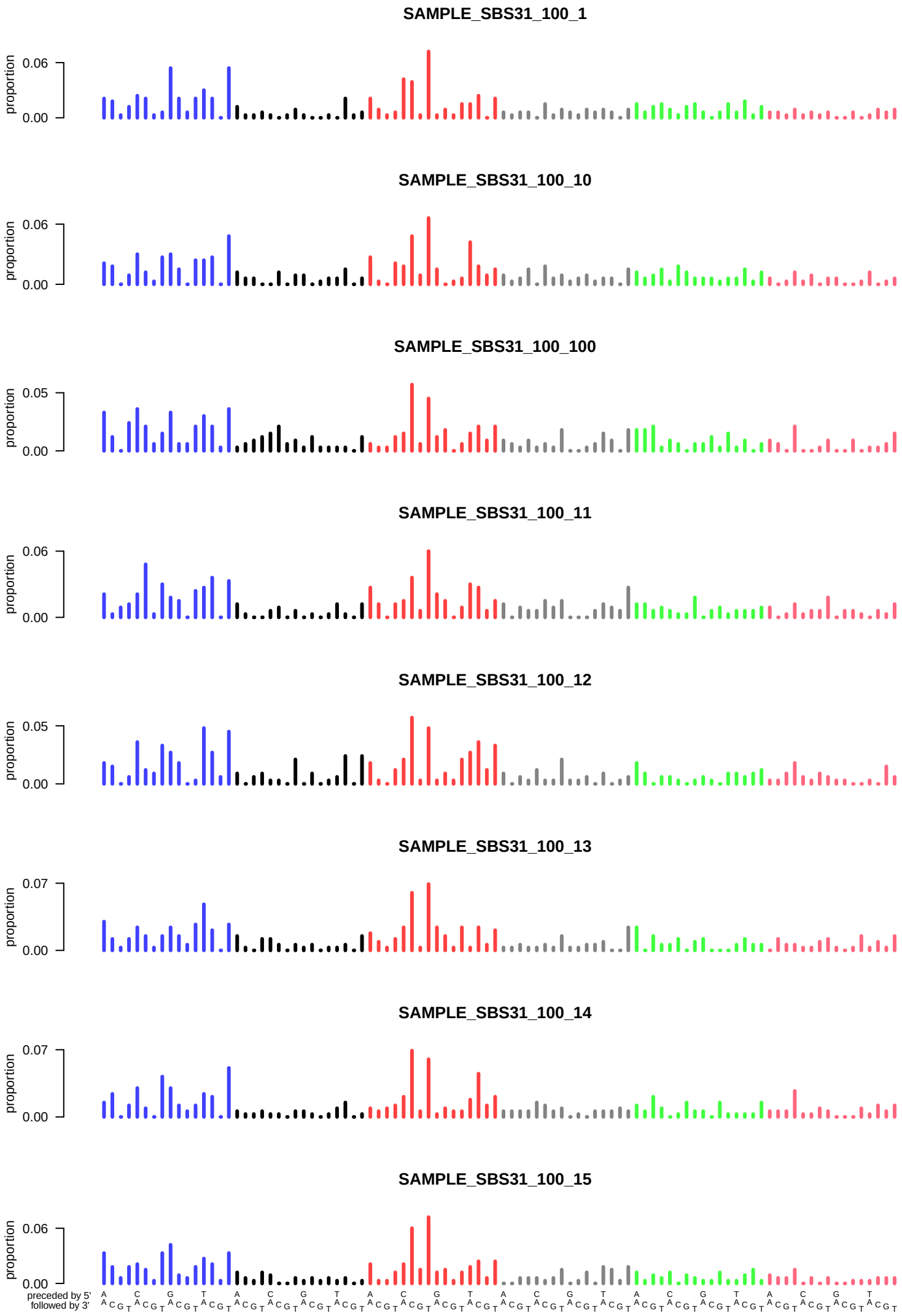
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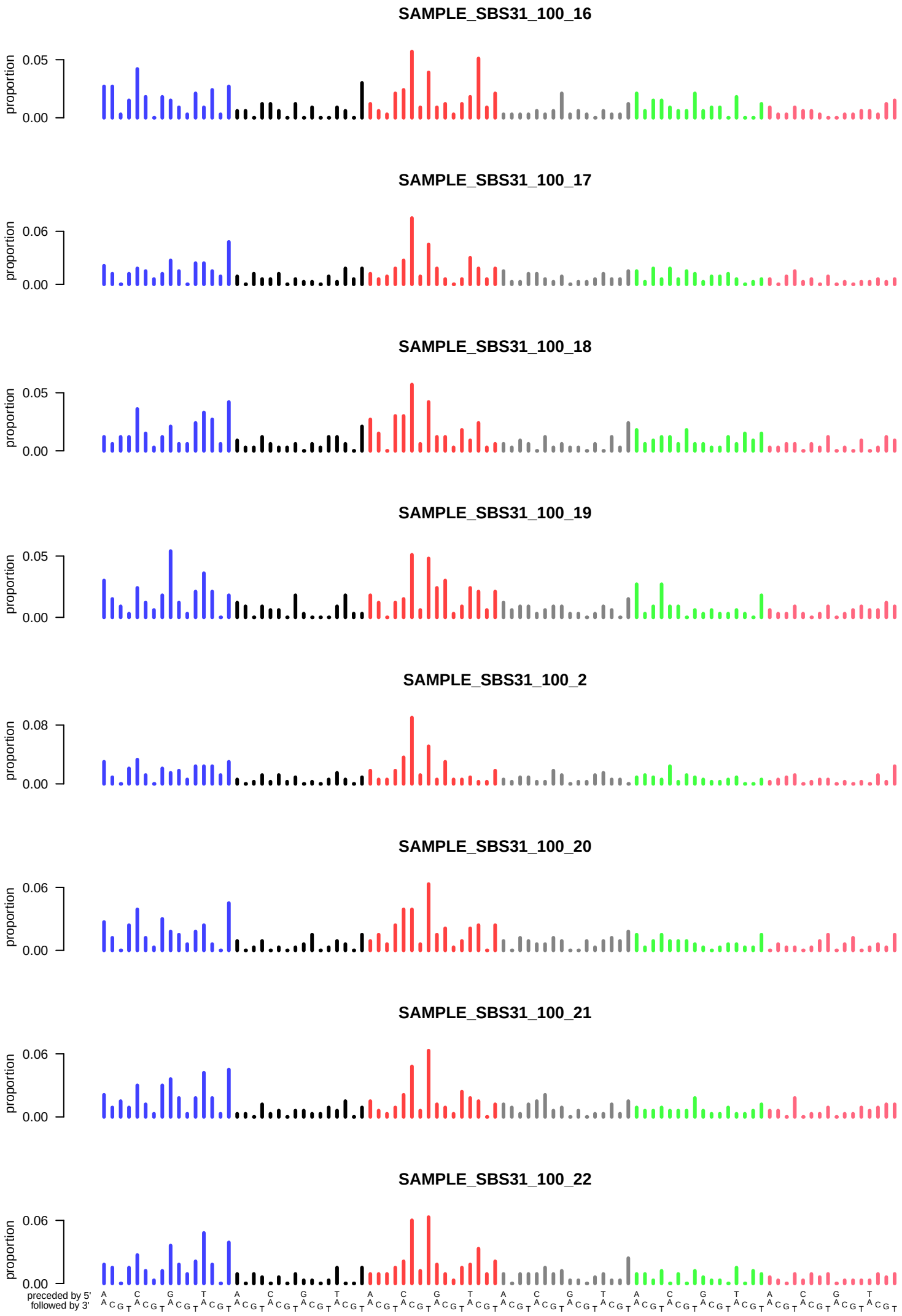
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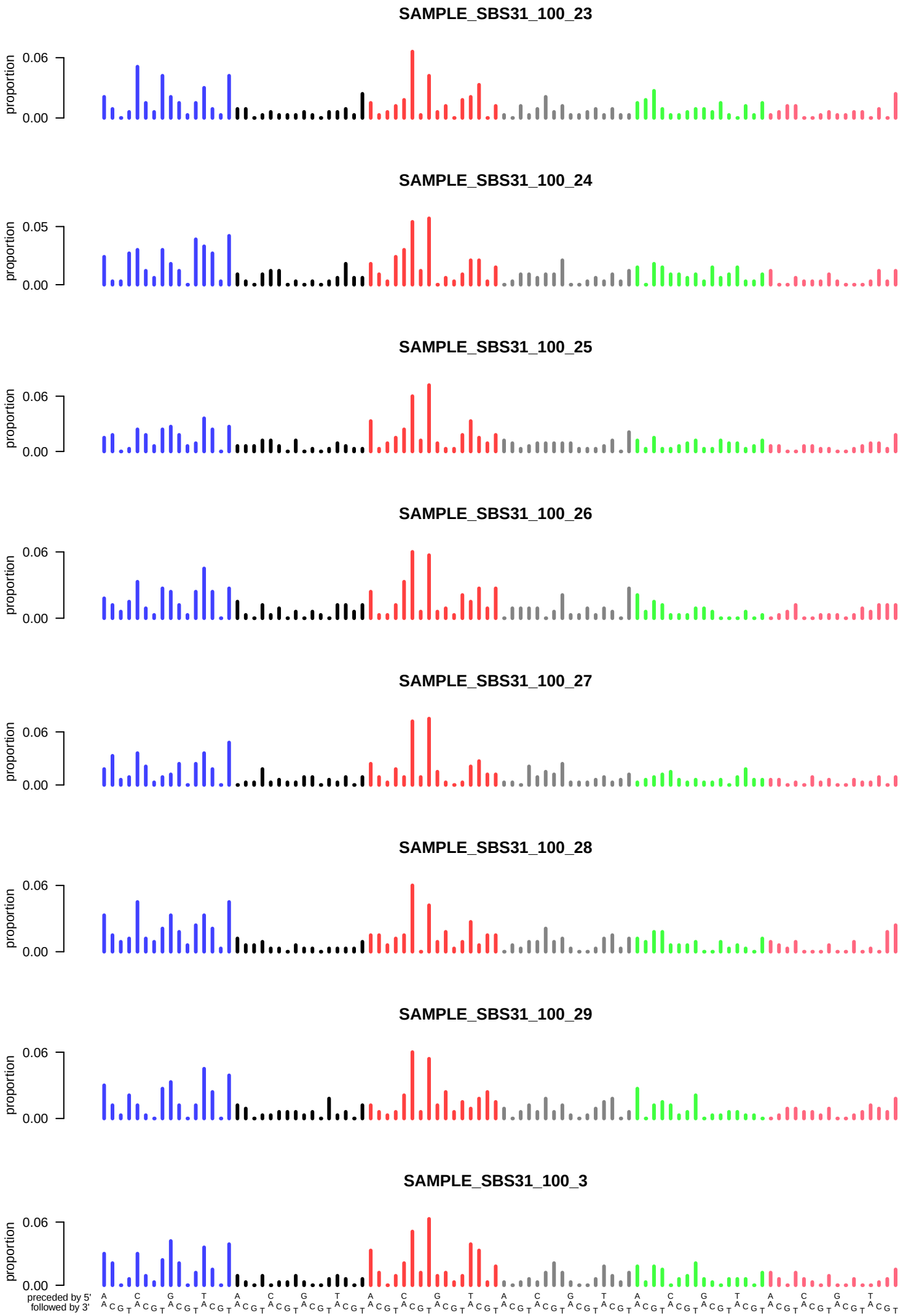
A C G T A C G T A C G T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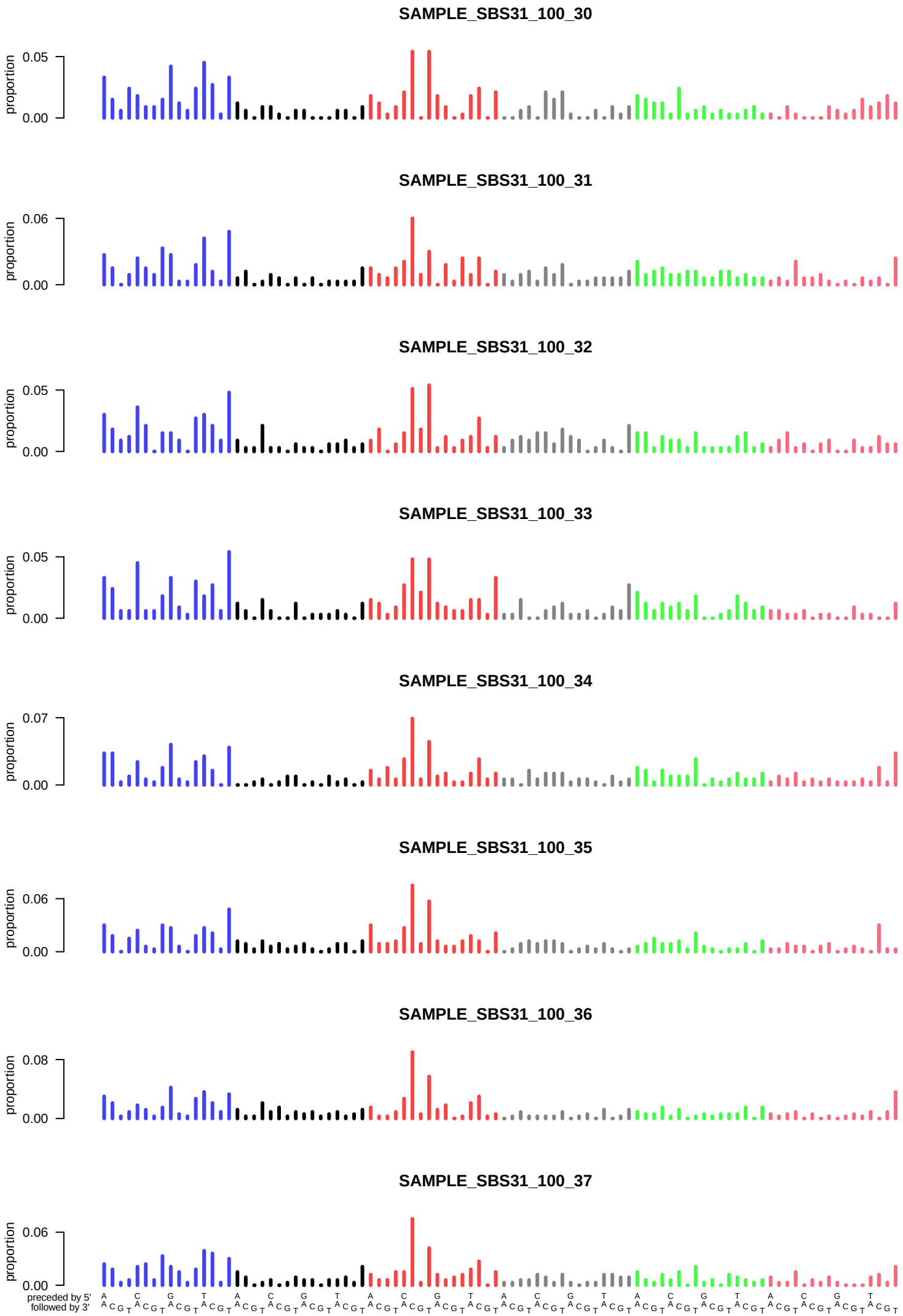
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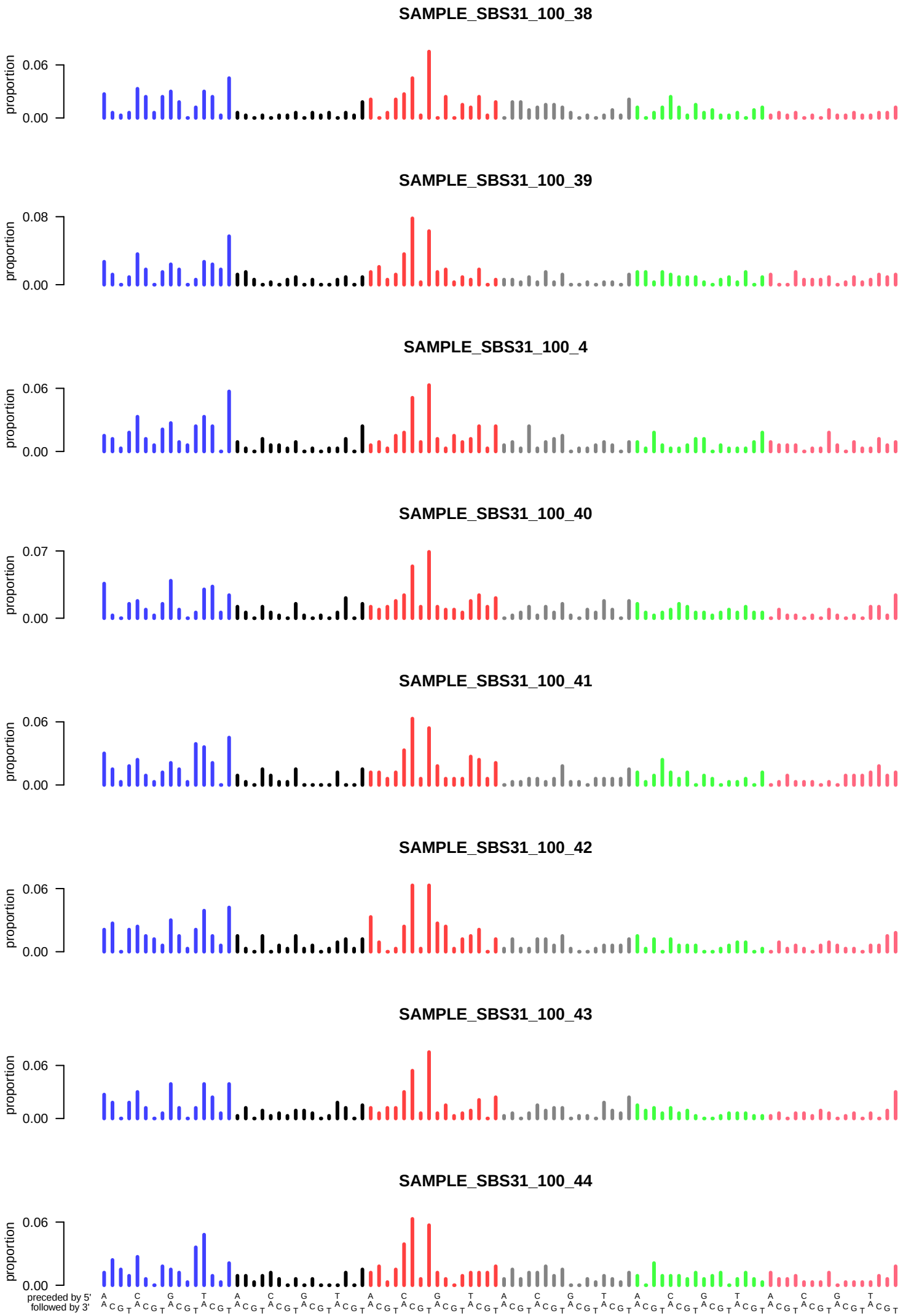
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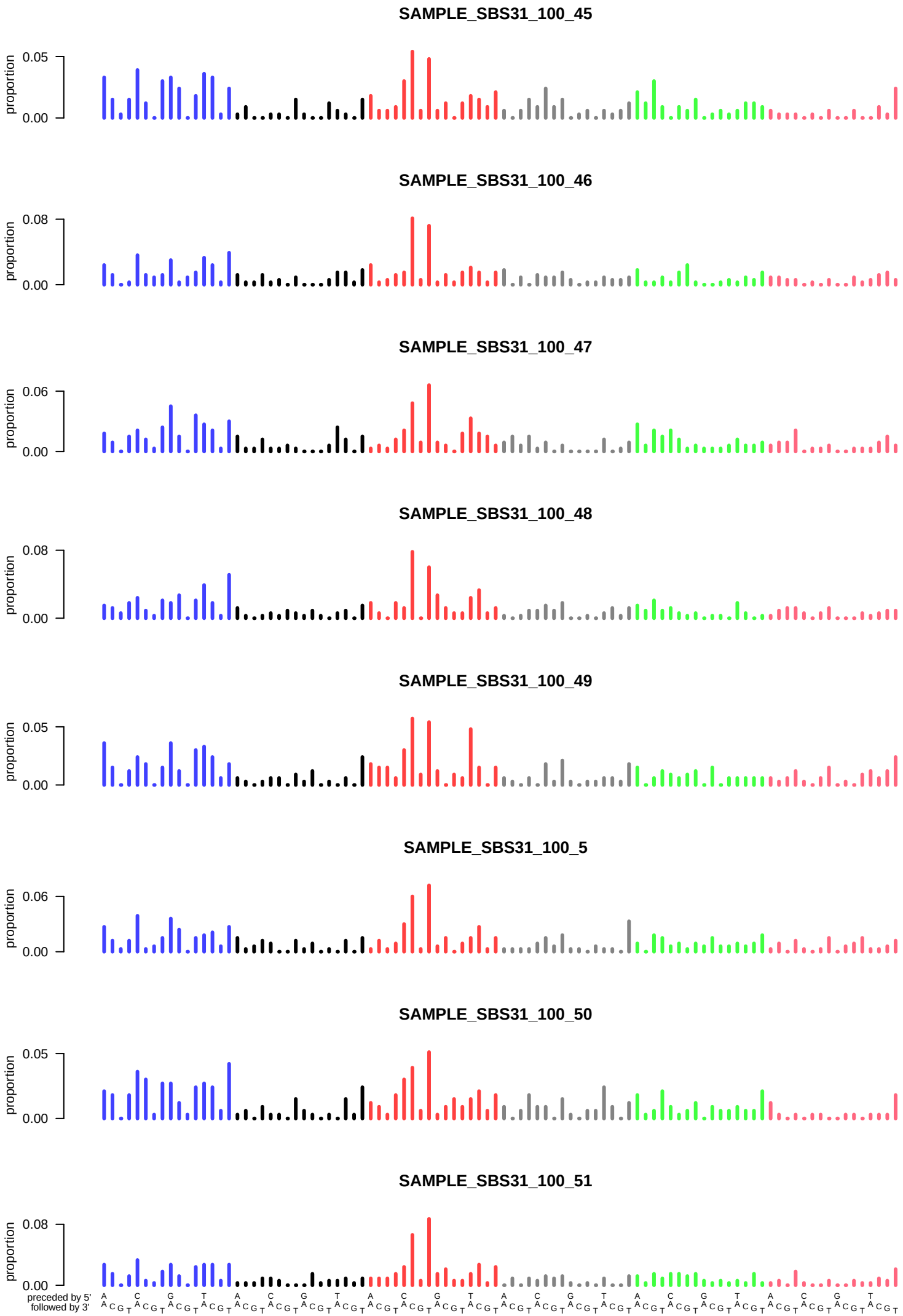
followed by 3'
A C G T A C G T A C G T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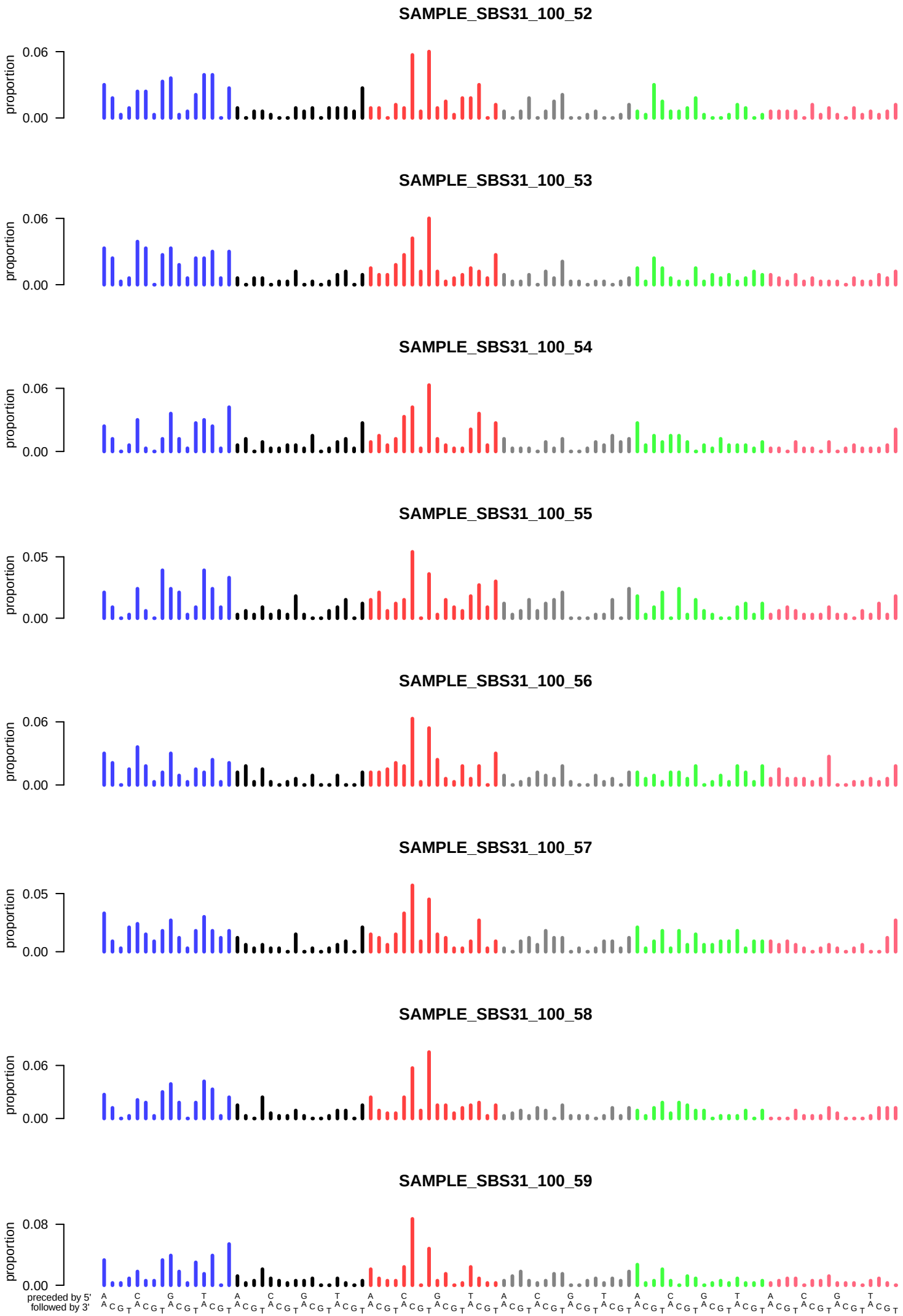
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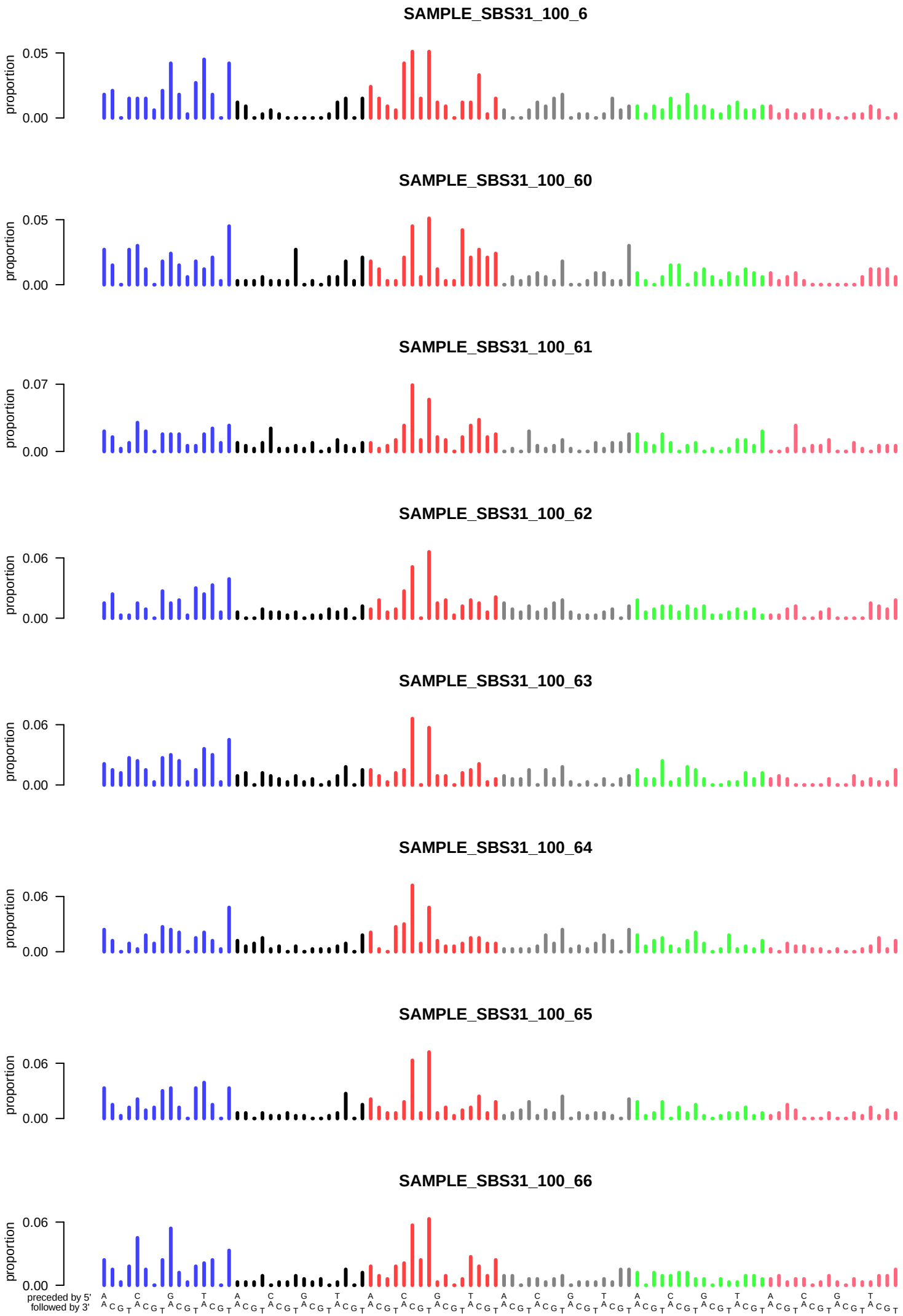
followed by 3'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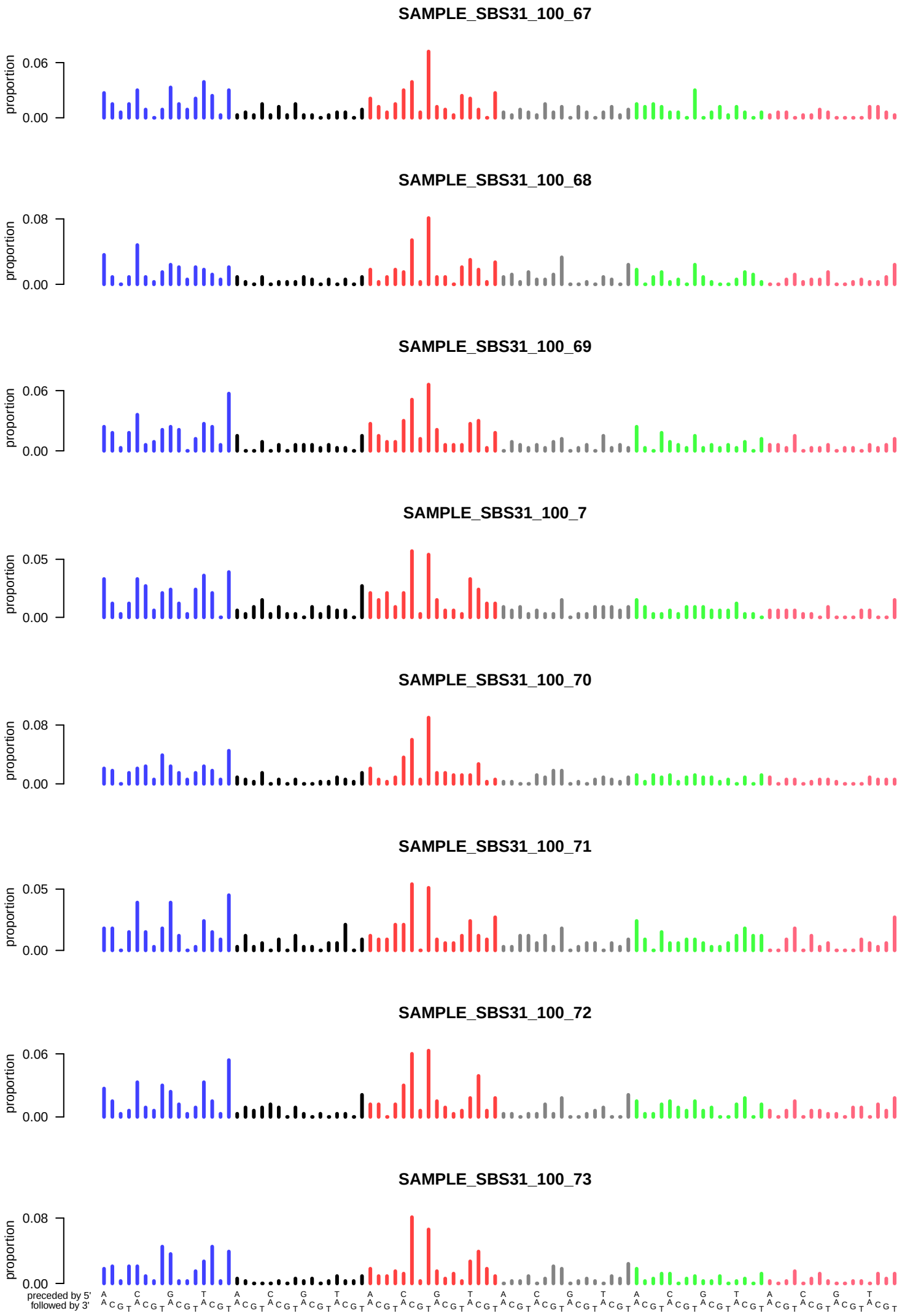
followed by 3'
A C G T A C G T A C G T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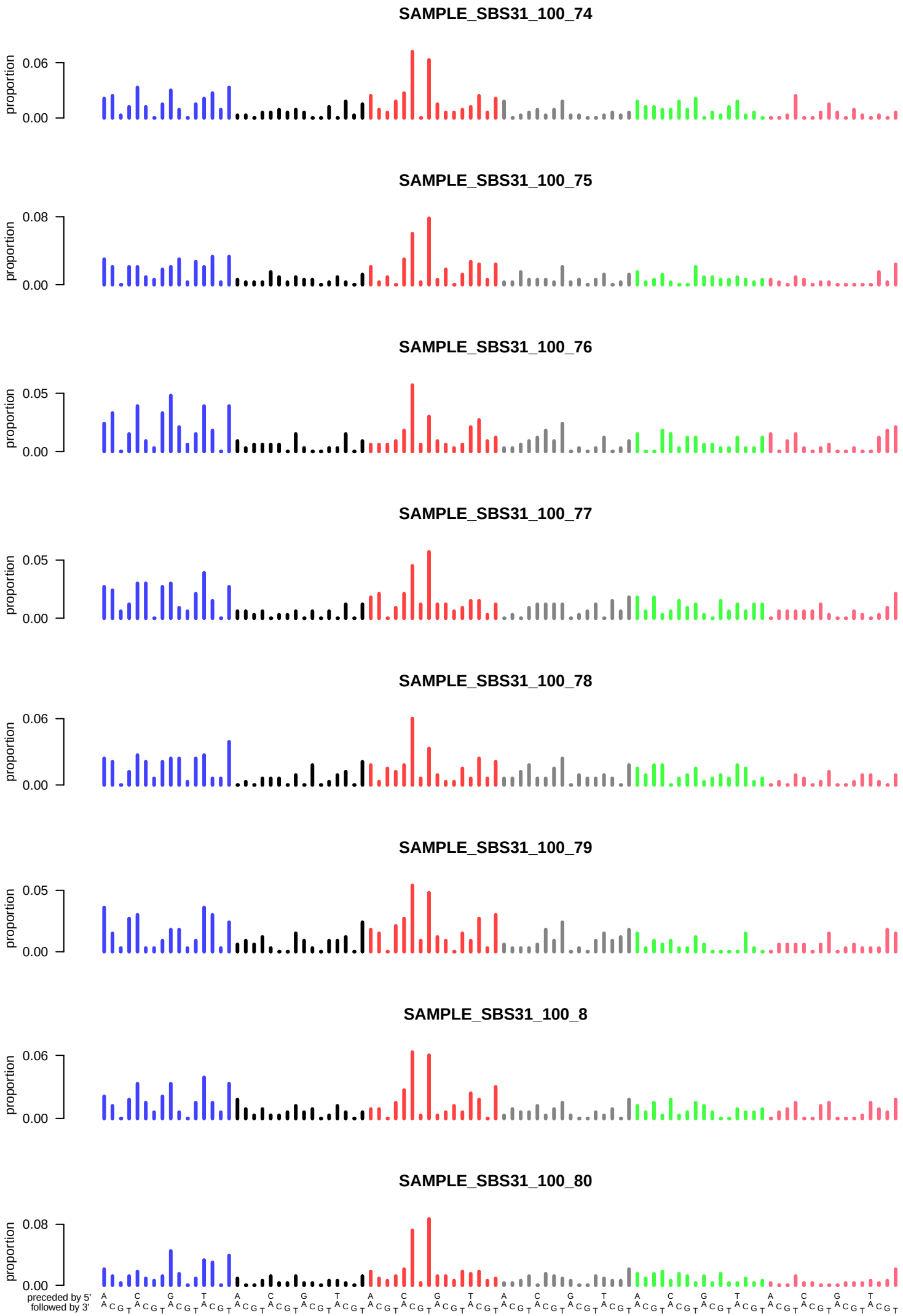
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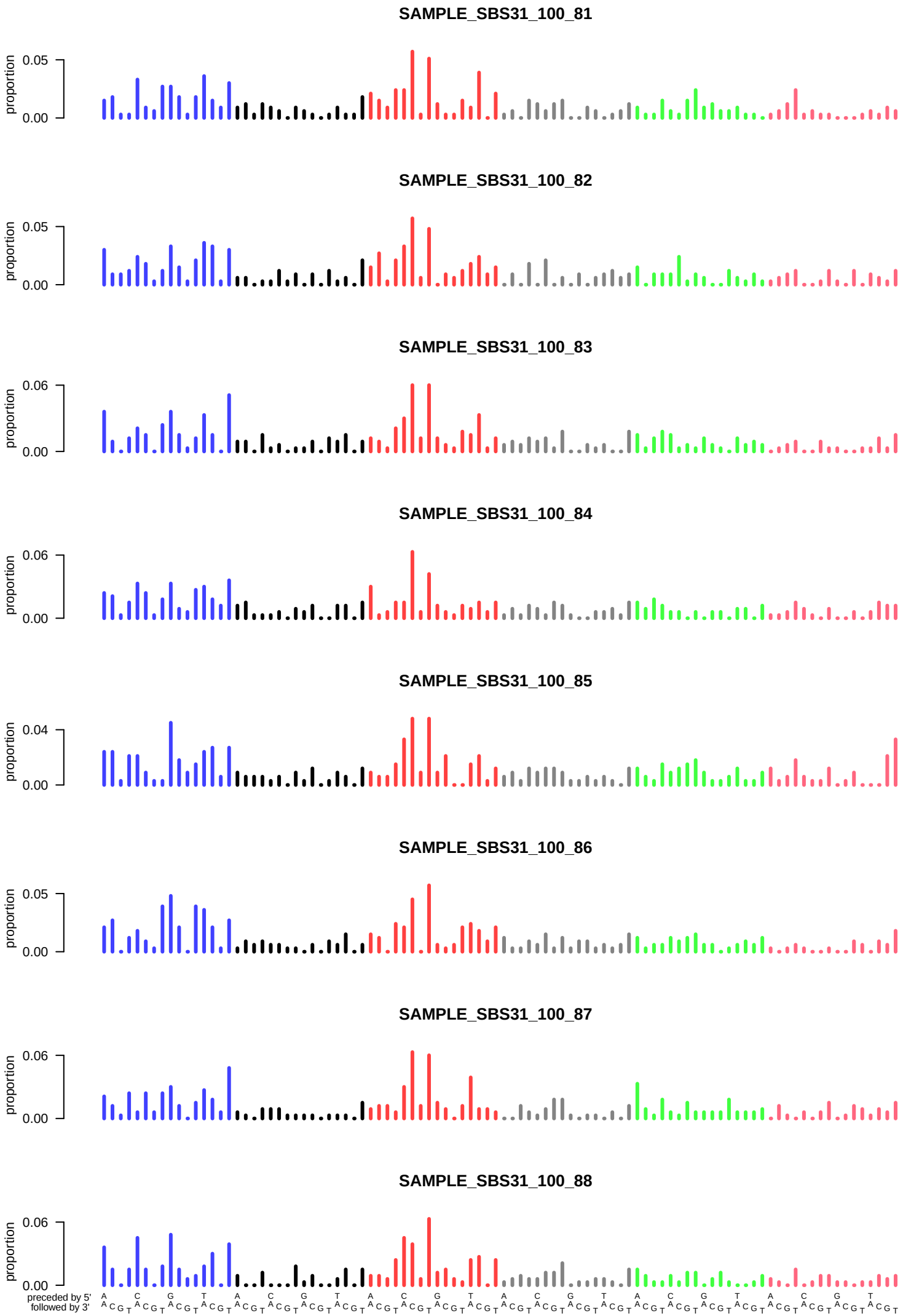
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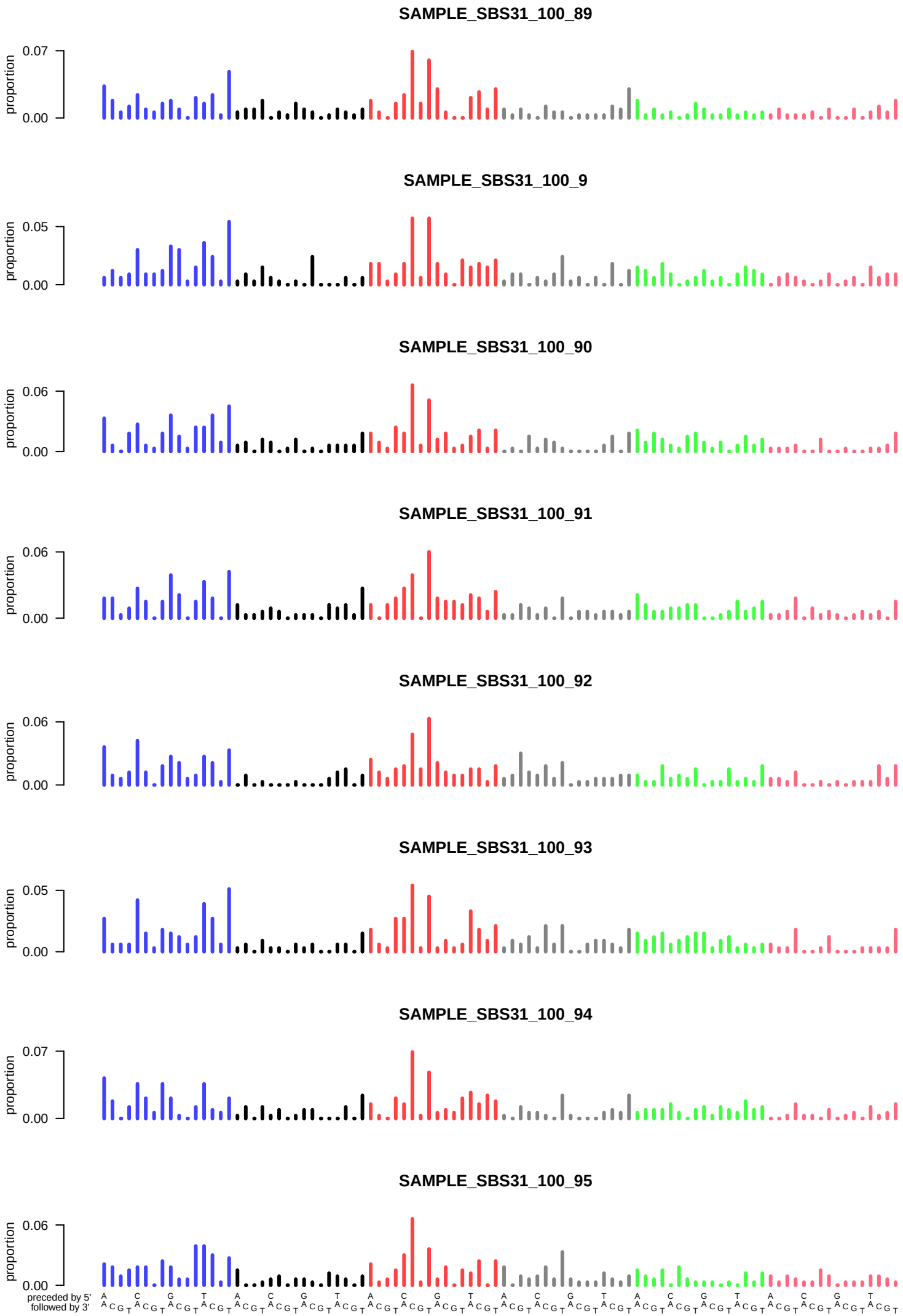
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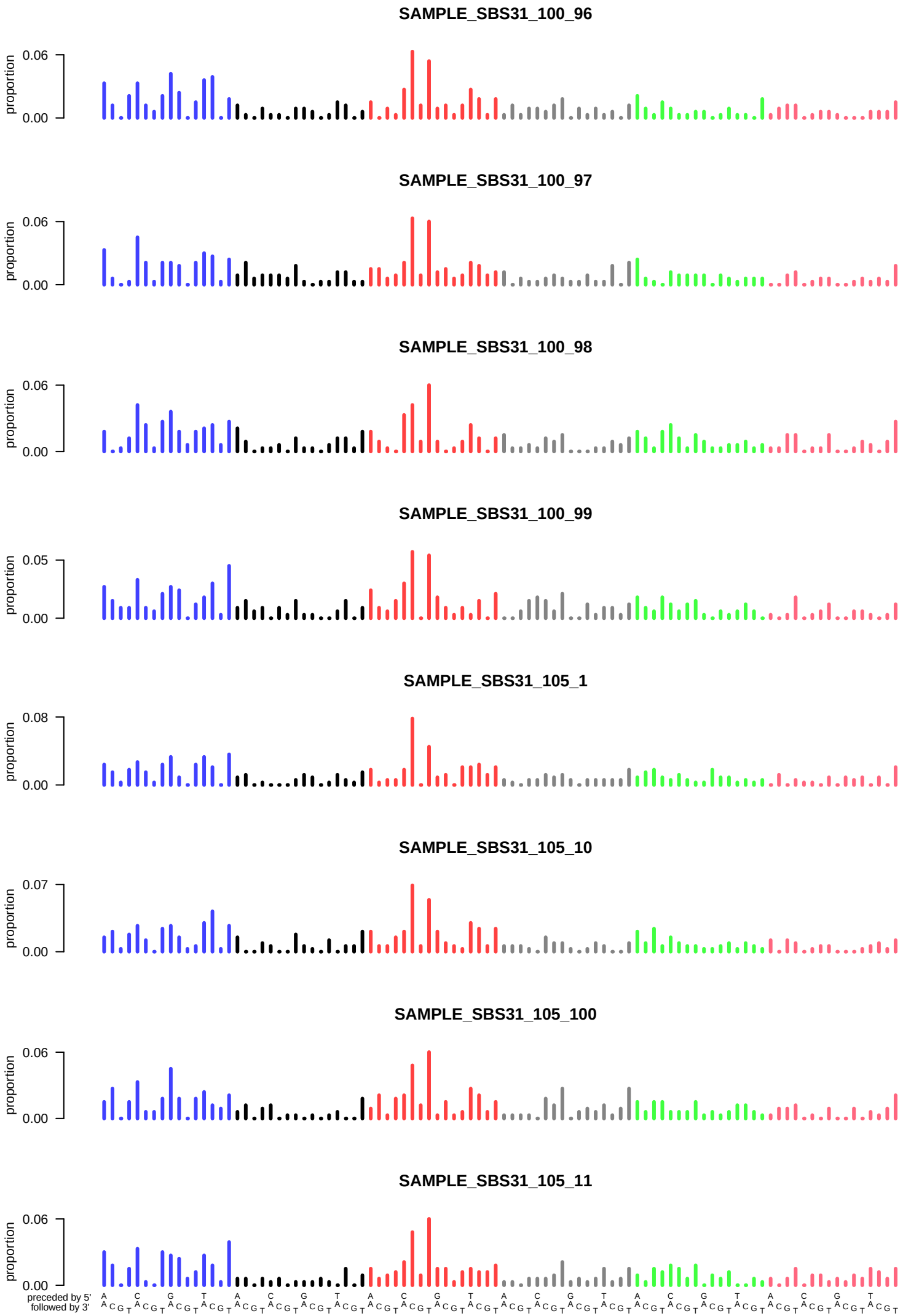
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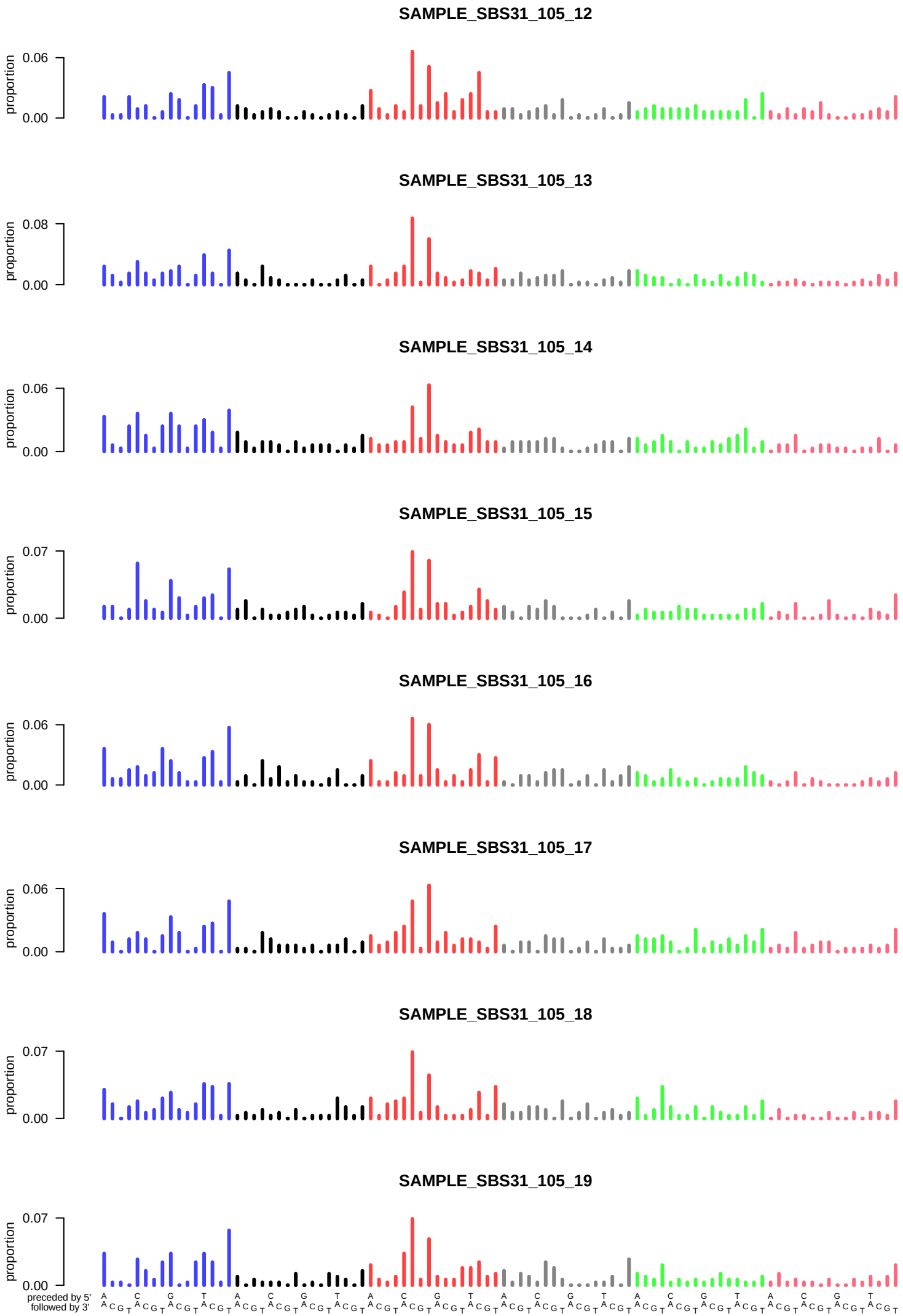
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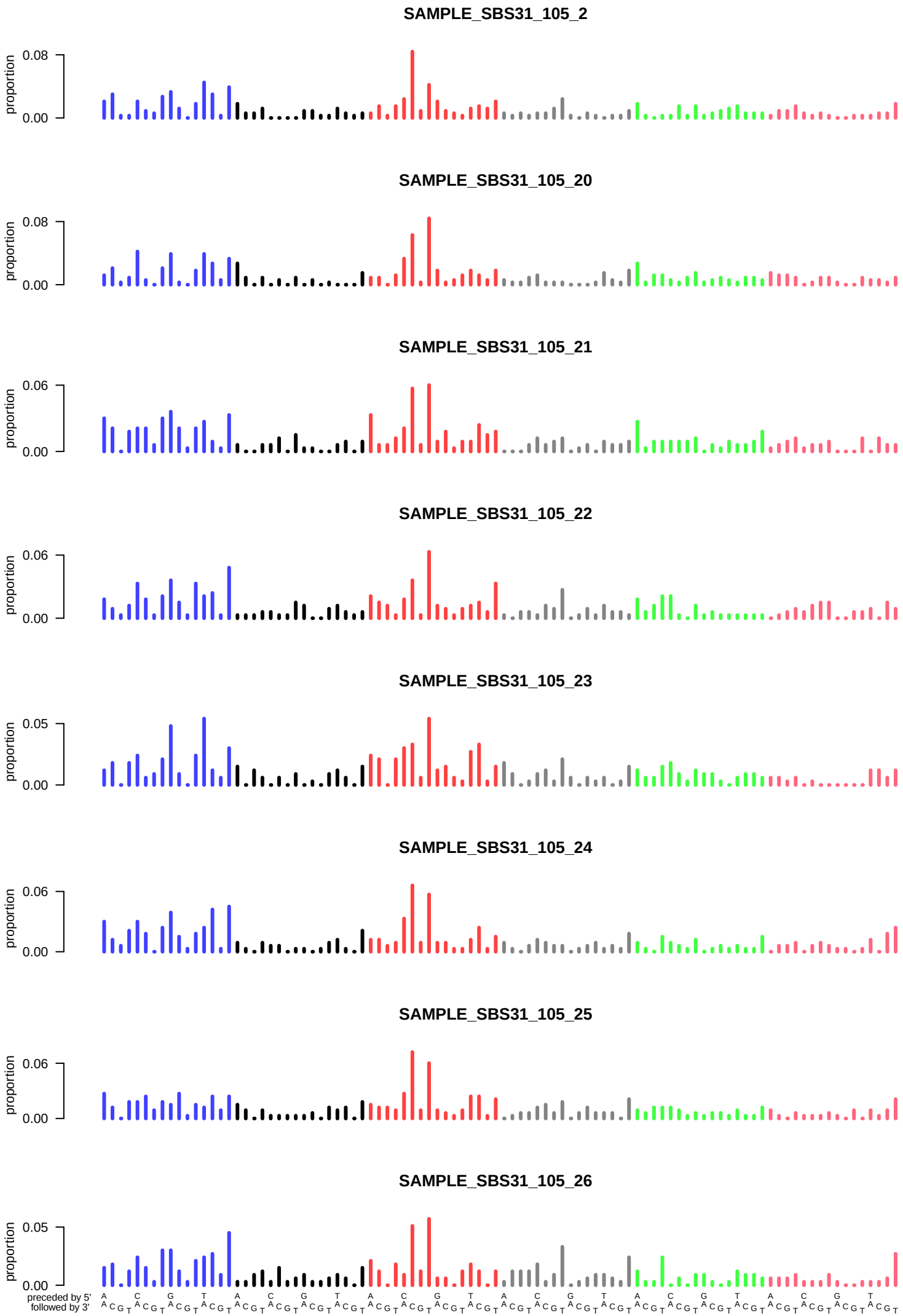
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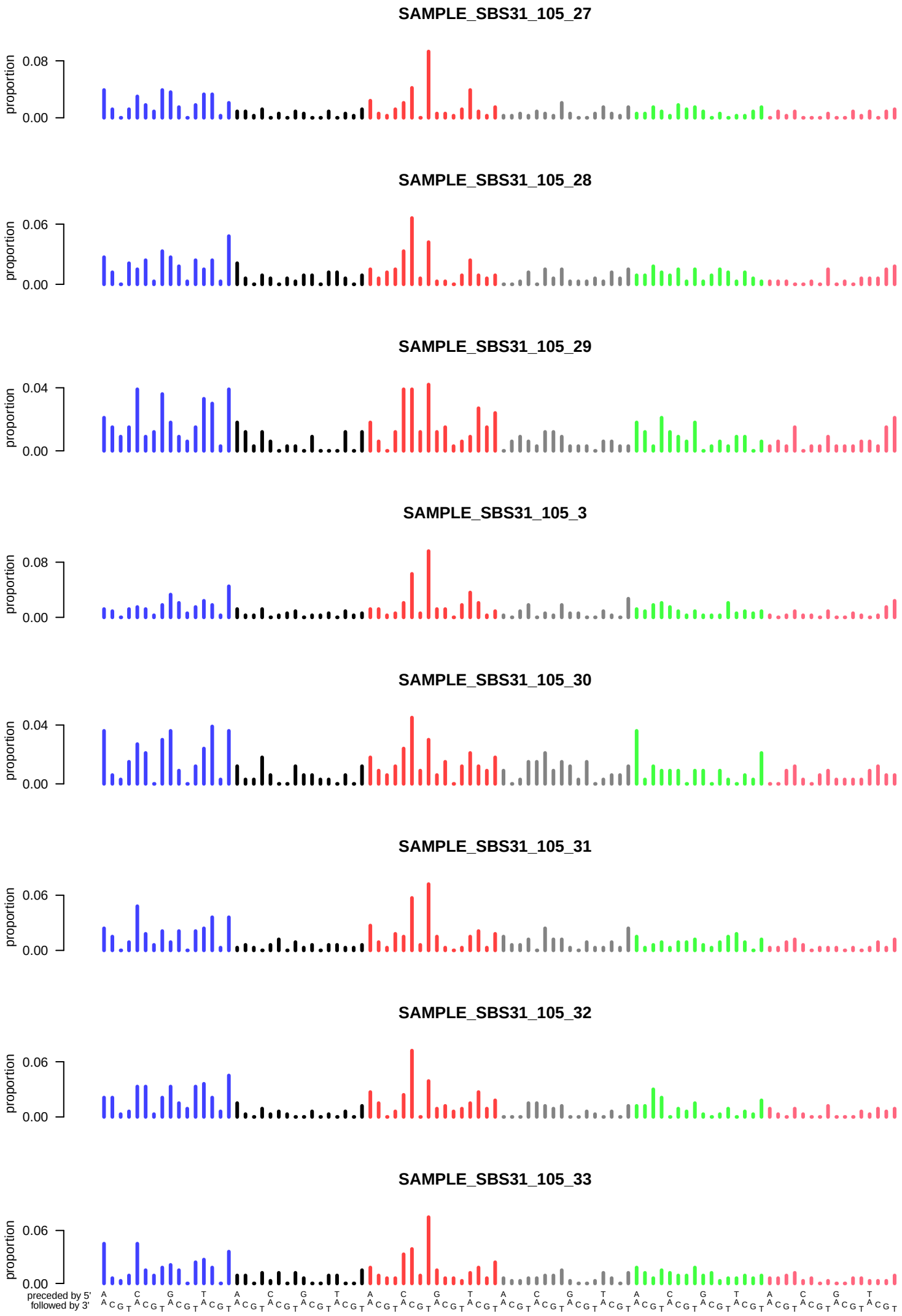
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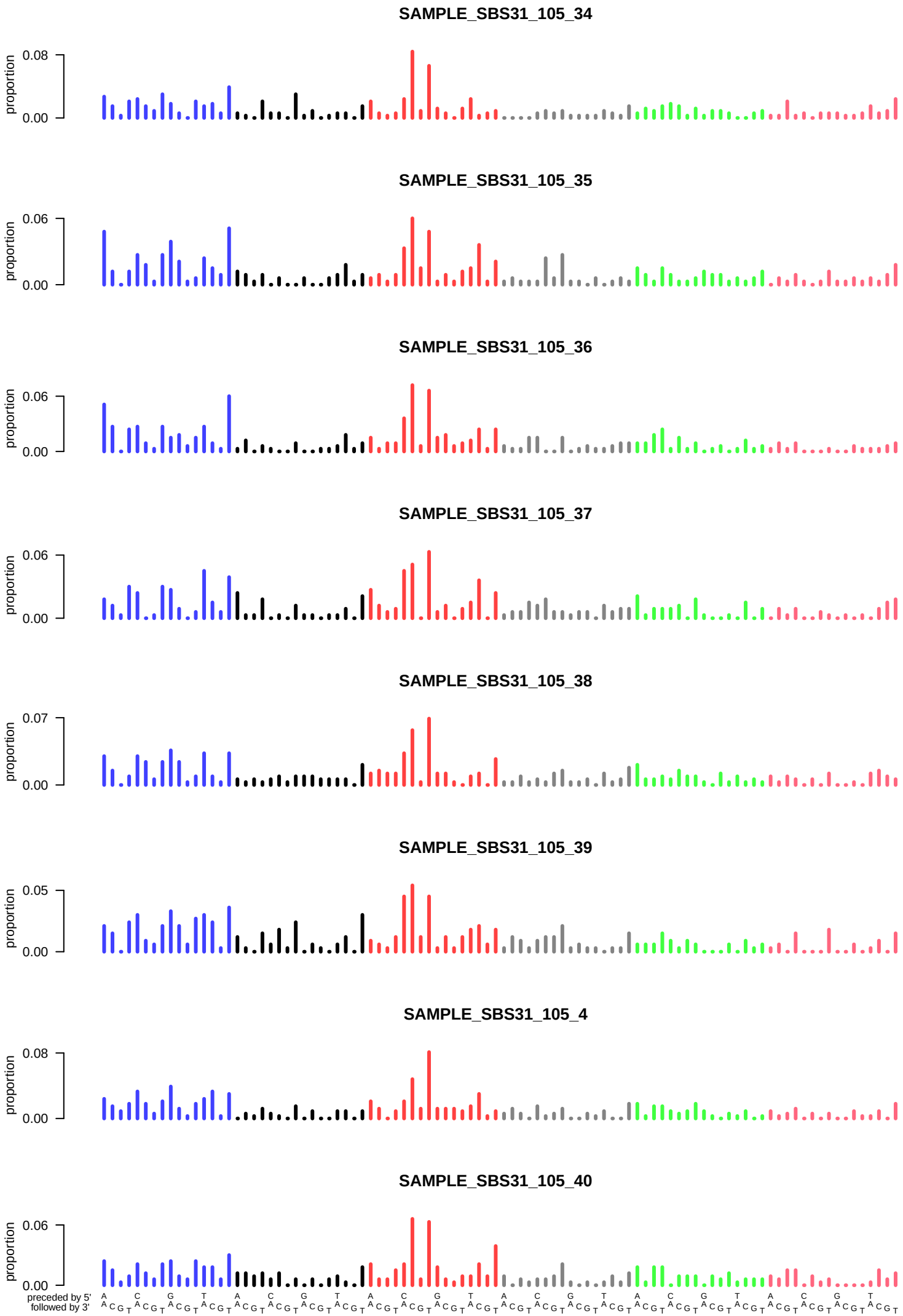
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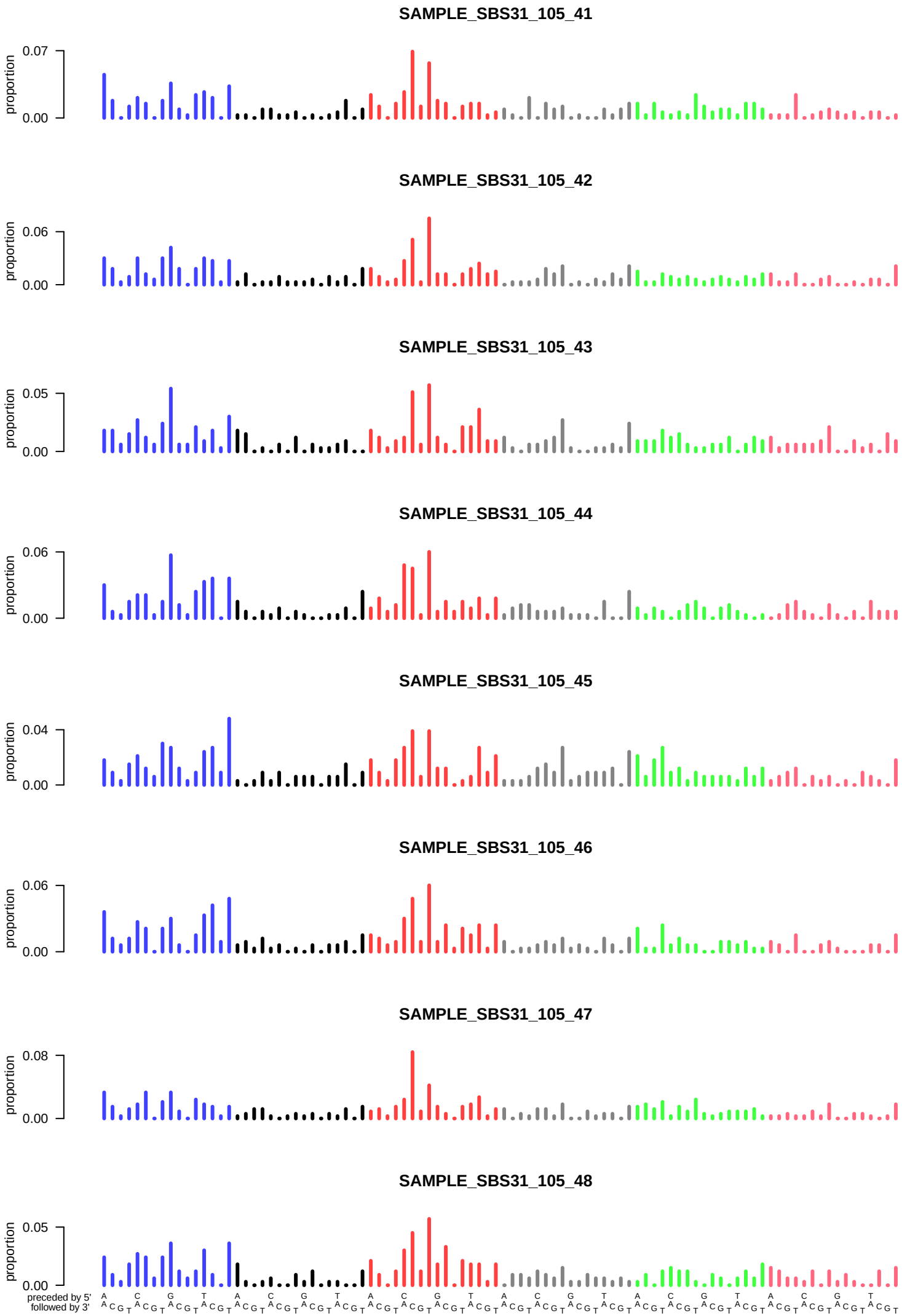
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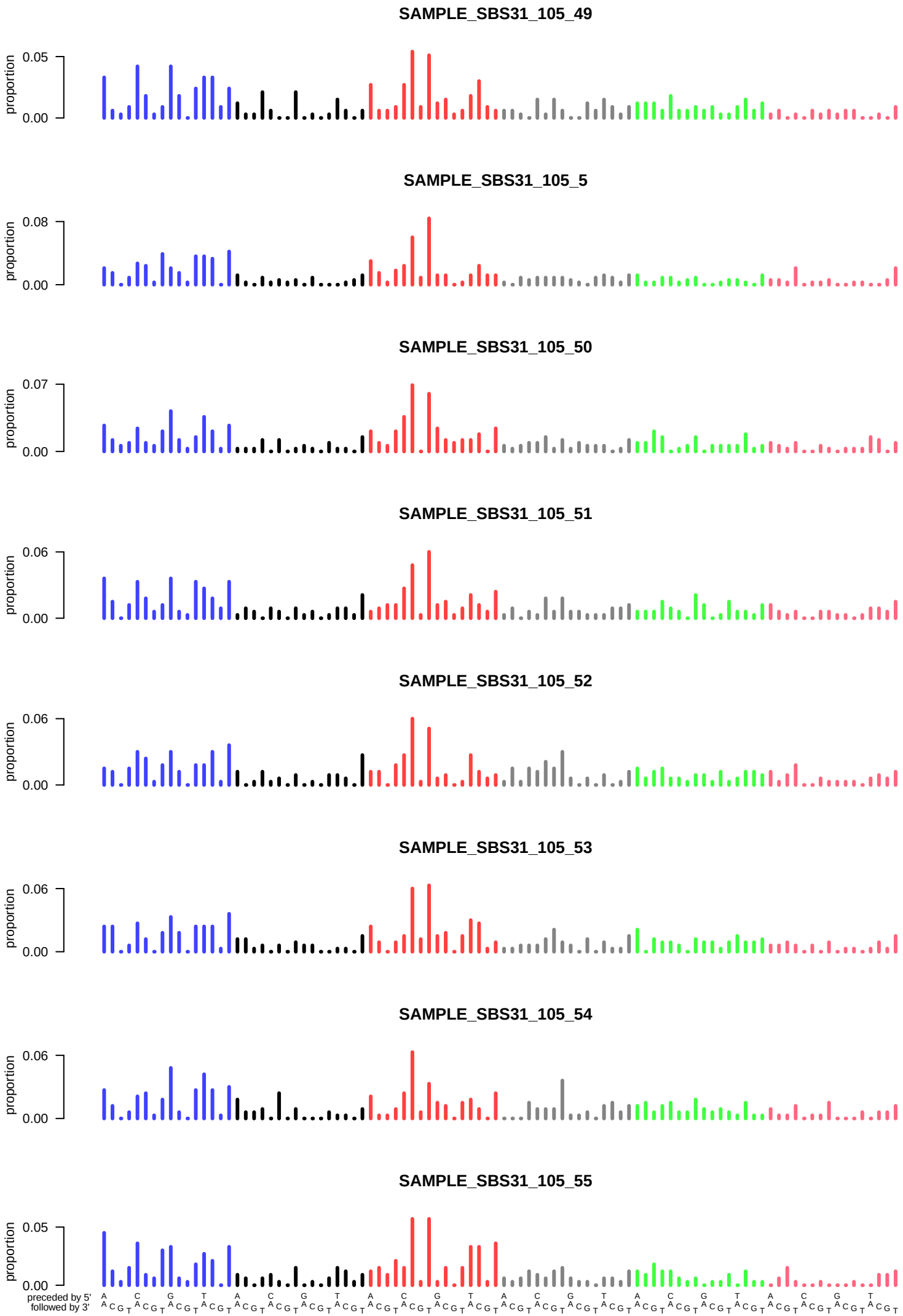
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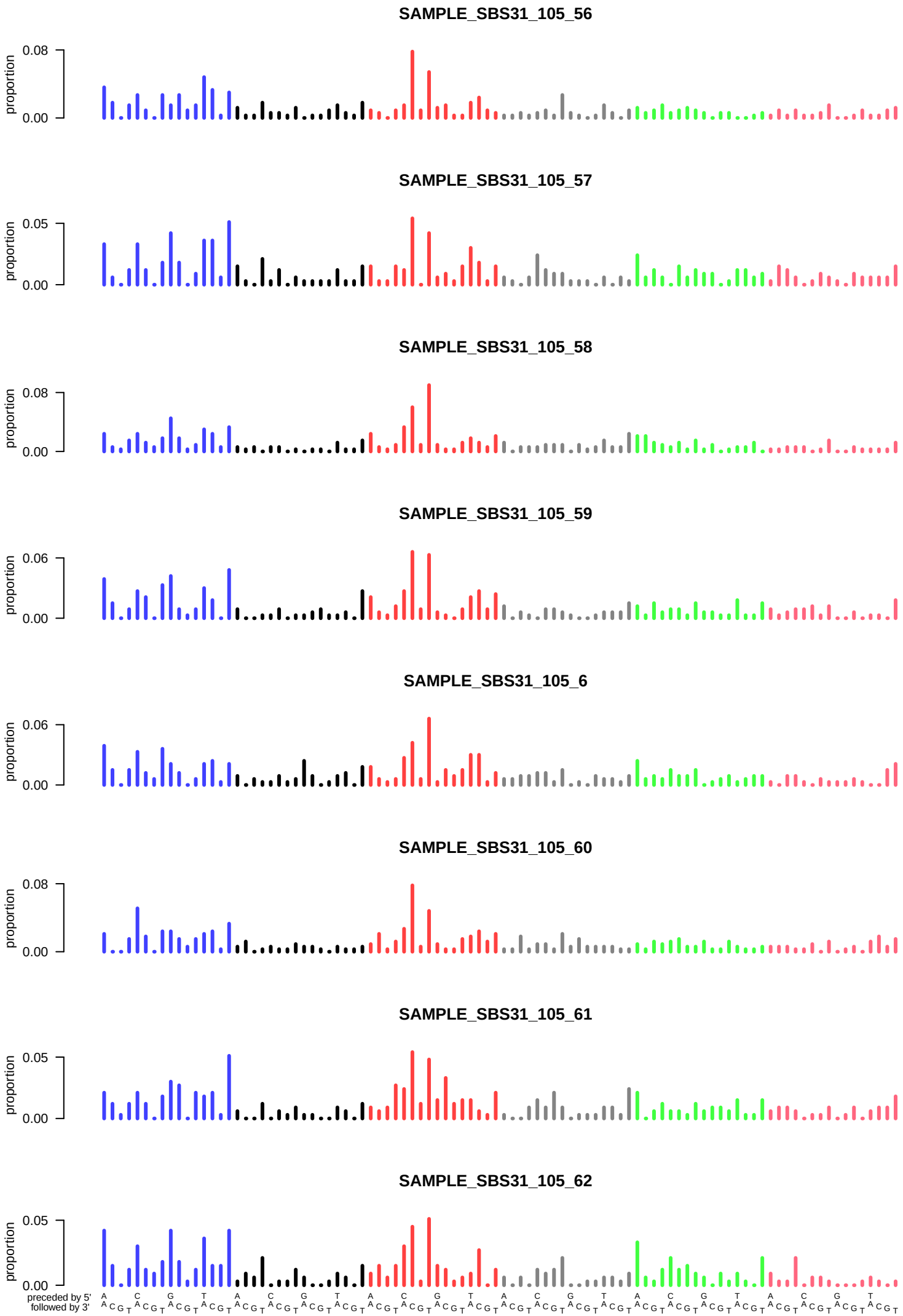
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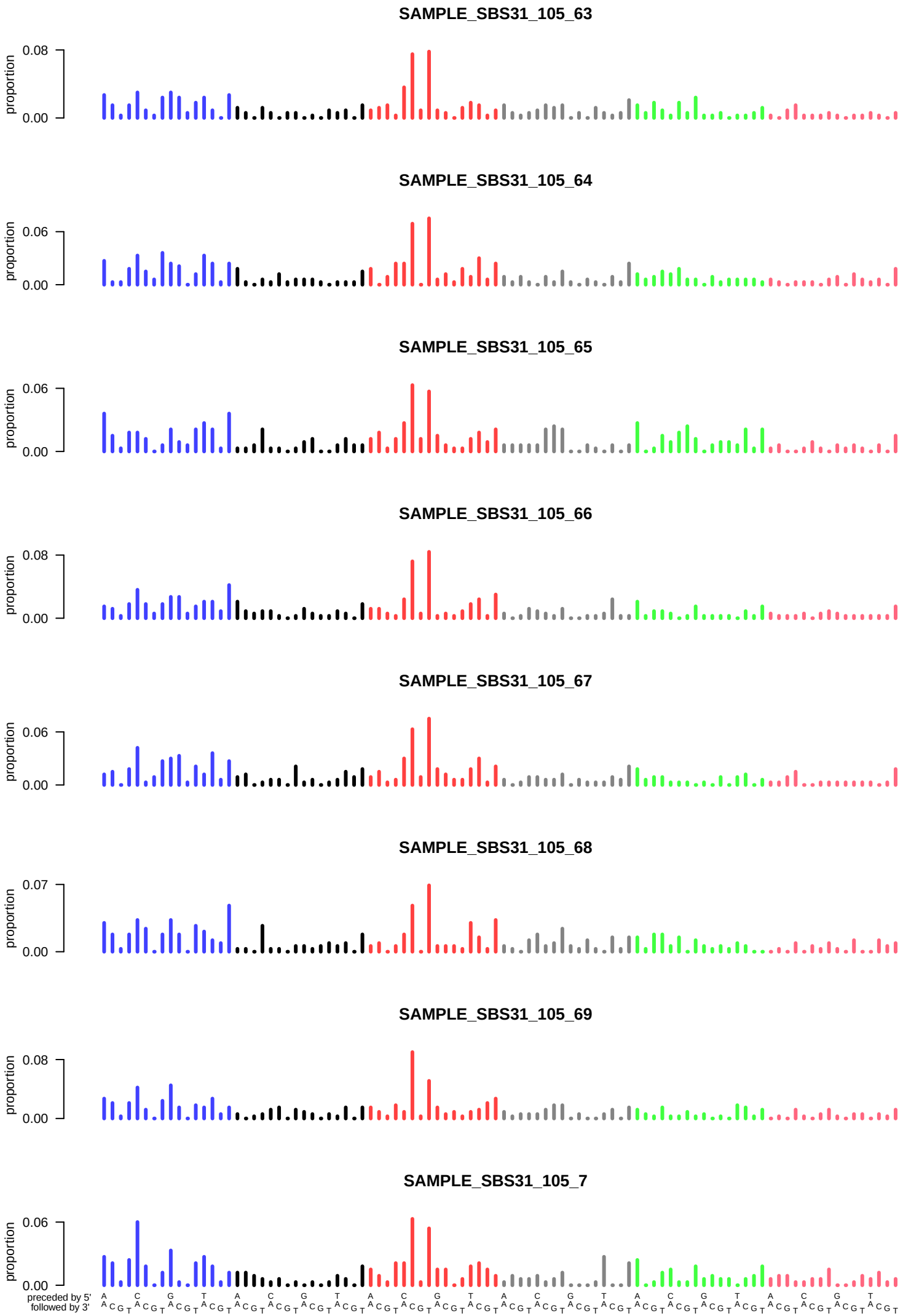
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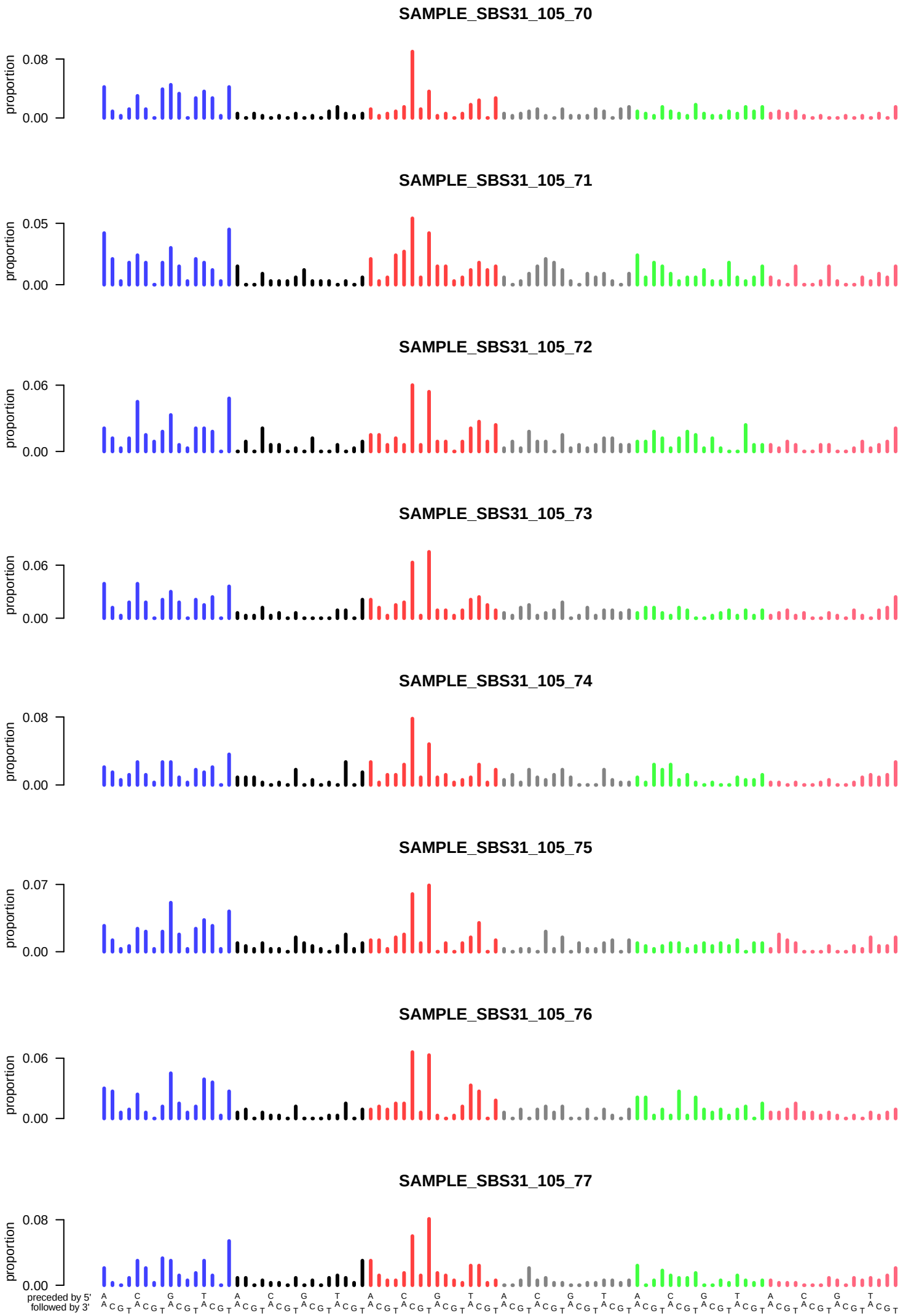
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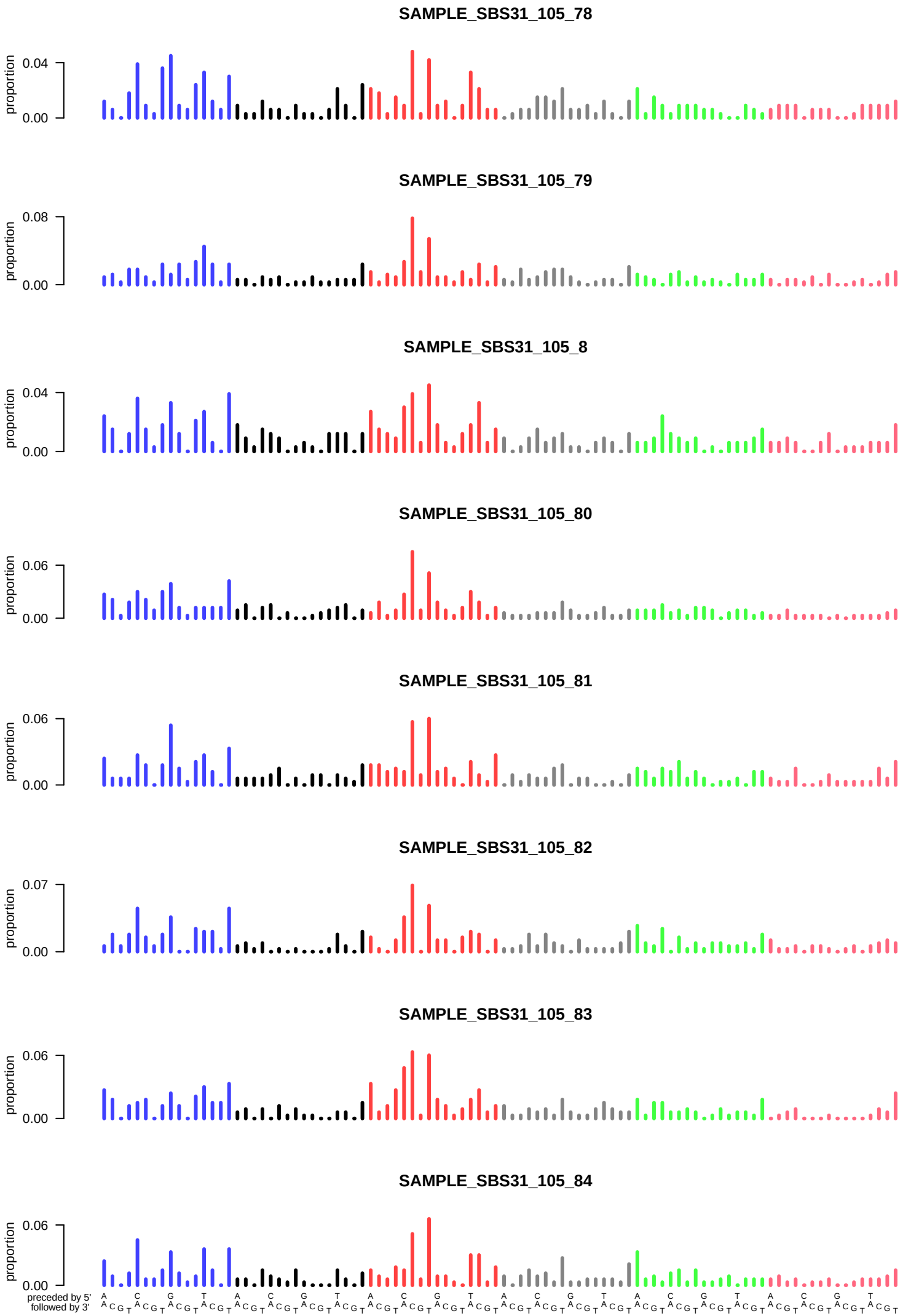
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proportion
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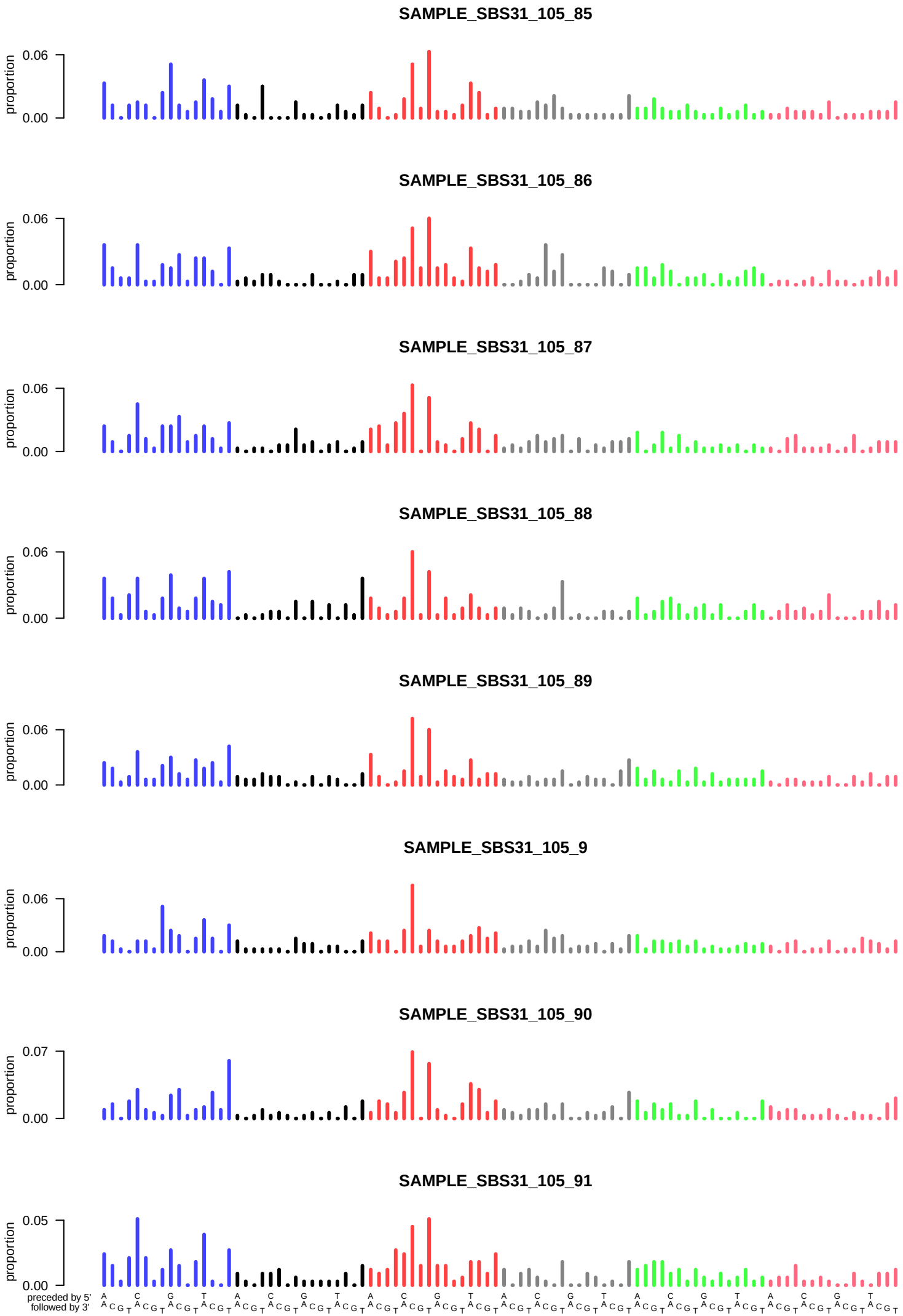
preceded by 5'
followed by 3'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SAMPLE_SBS31_105_89
SAMPLE_SBS31_105_9
SAMPLE_SBS31_105_90
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0.07
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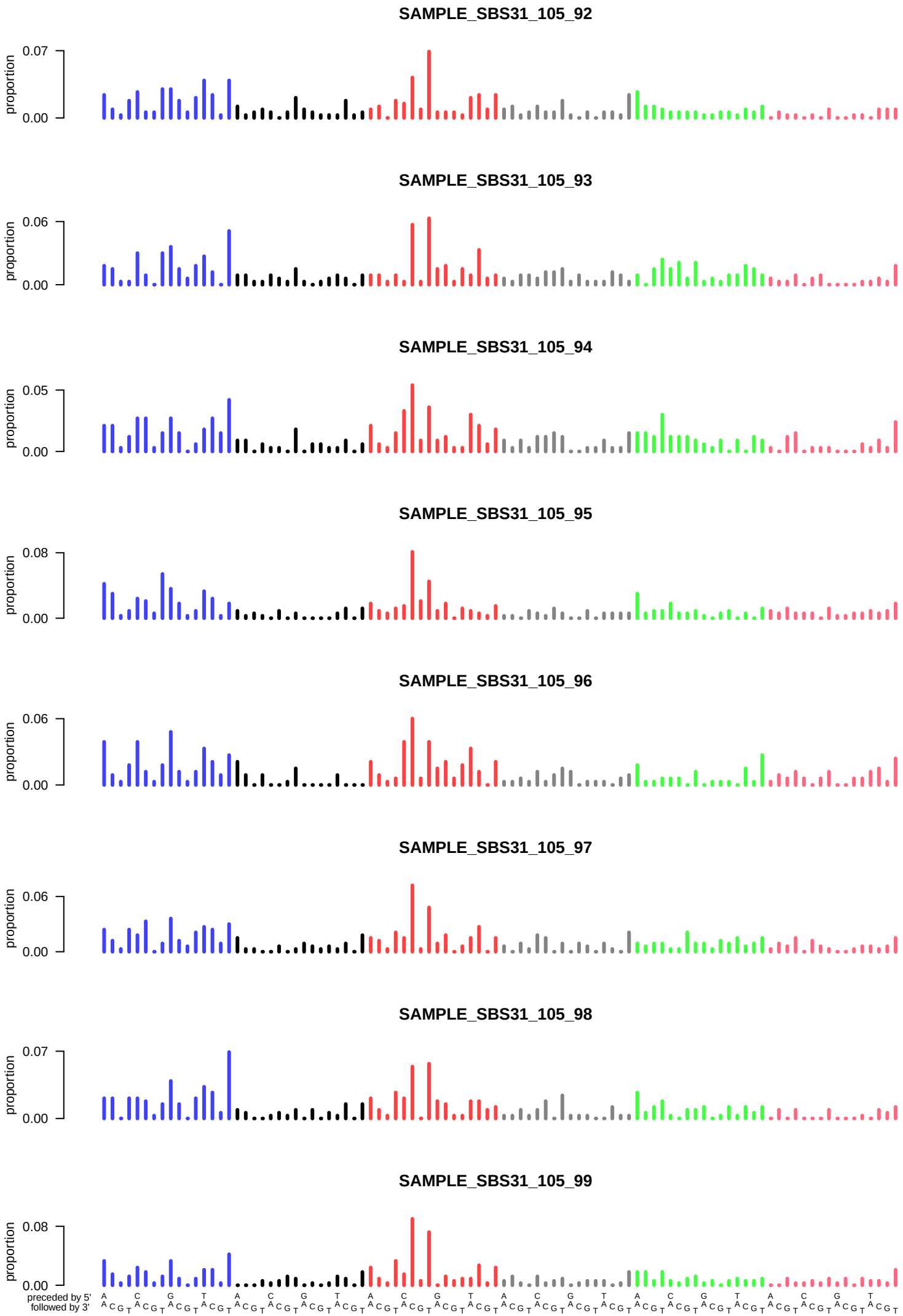
followed by 3'
A C G T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SAMPLE_SBS31_105_96
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SAMPLE_SBS31_105_97
proportion
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SAMPLE_SBS31_105_98
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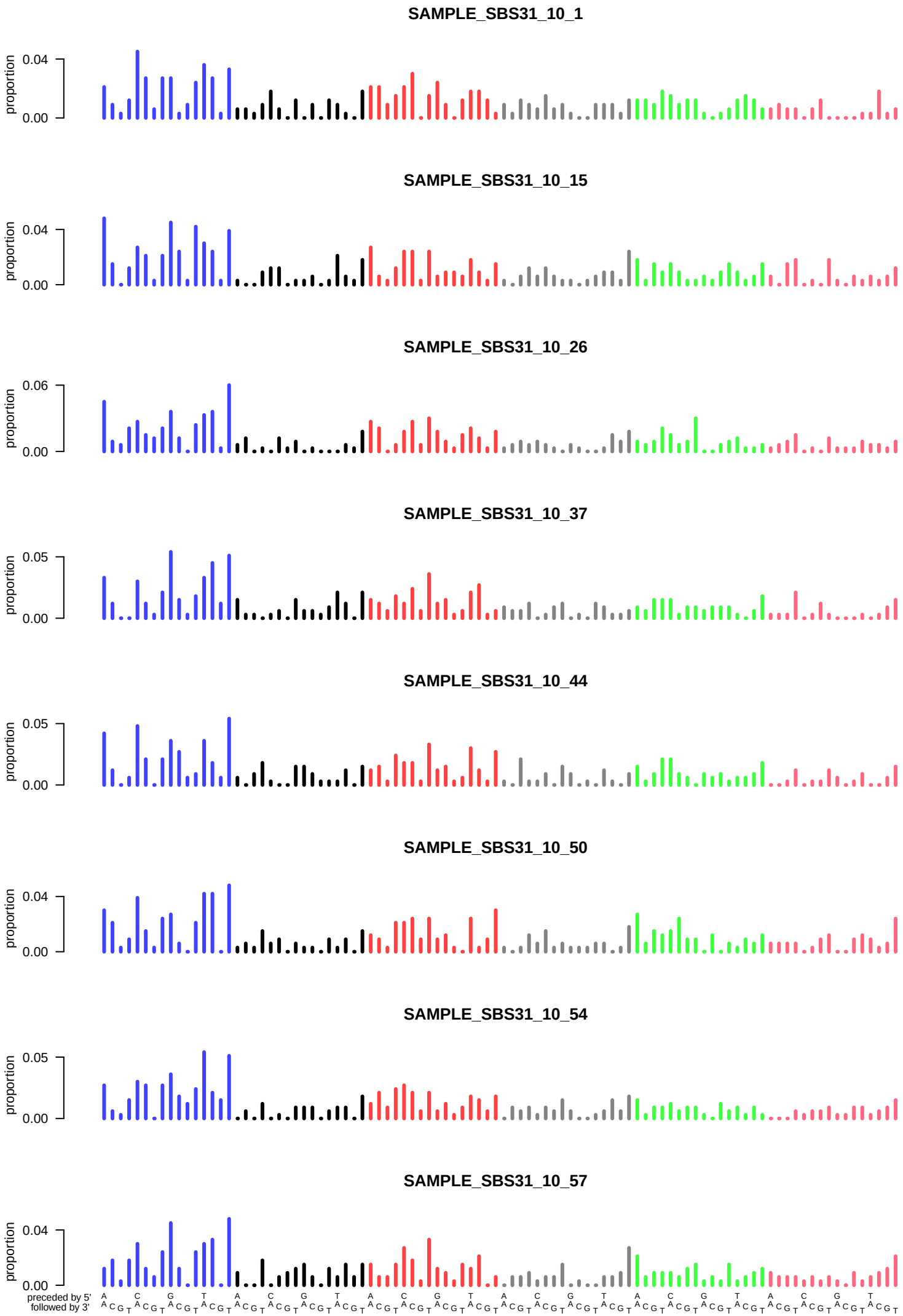
followed by 3'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SAMPLE_SBS31_10_37
proportion
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SAMPLE_SBS31_10_54
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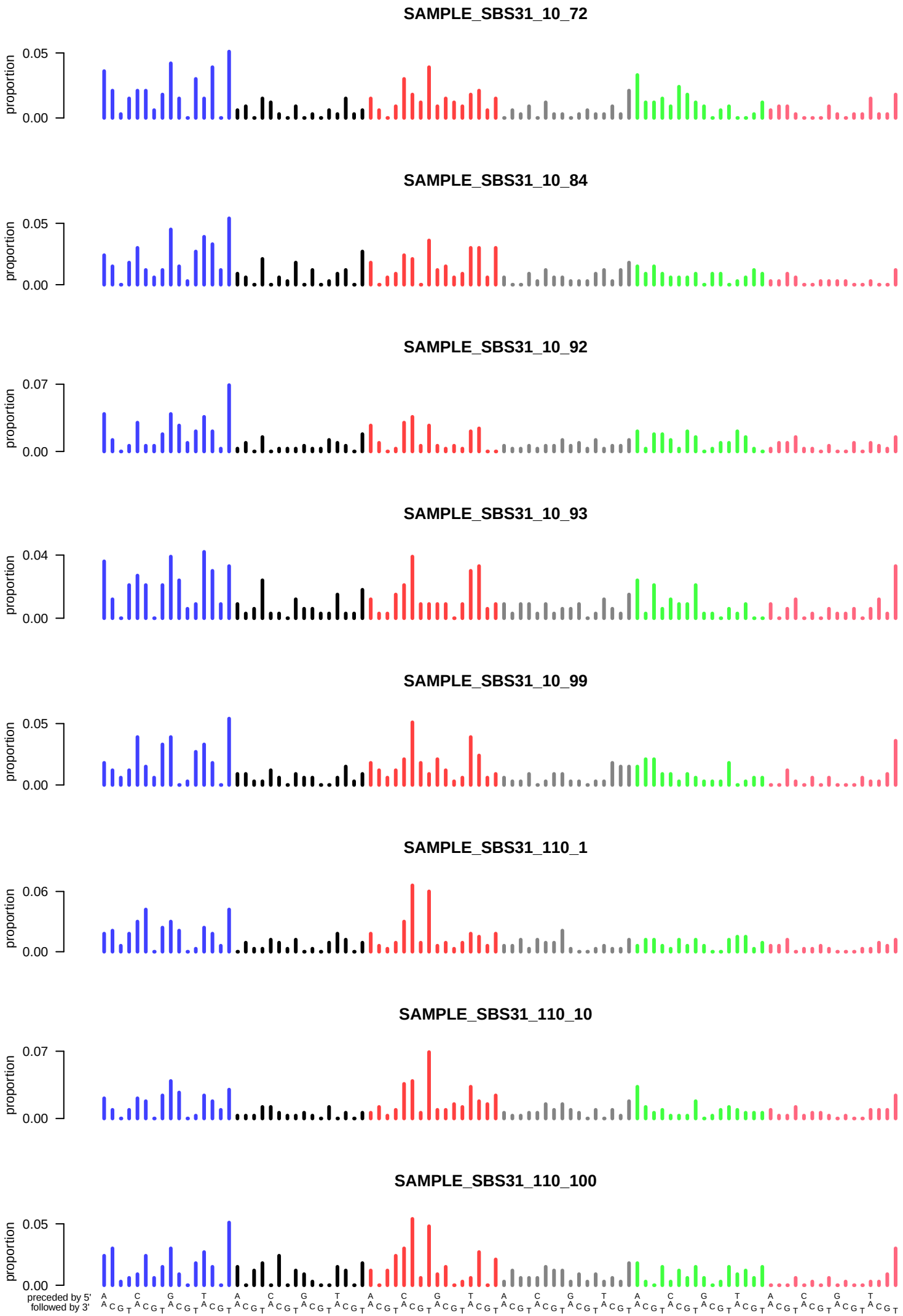
preceded by 5'
followed by 3'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proportion
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proportion
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SAMPLE_SBS31_110_10
proportion
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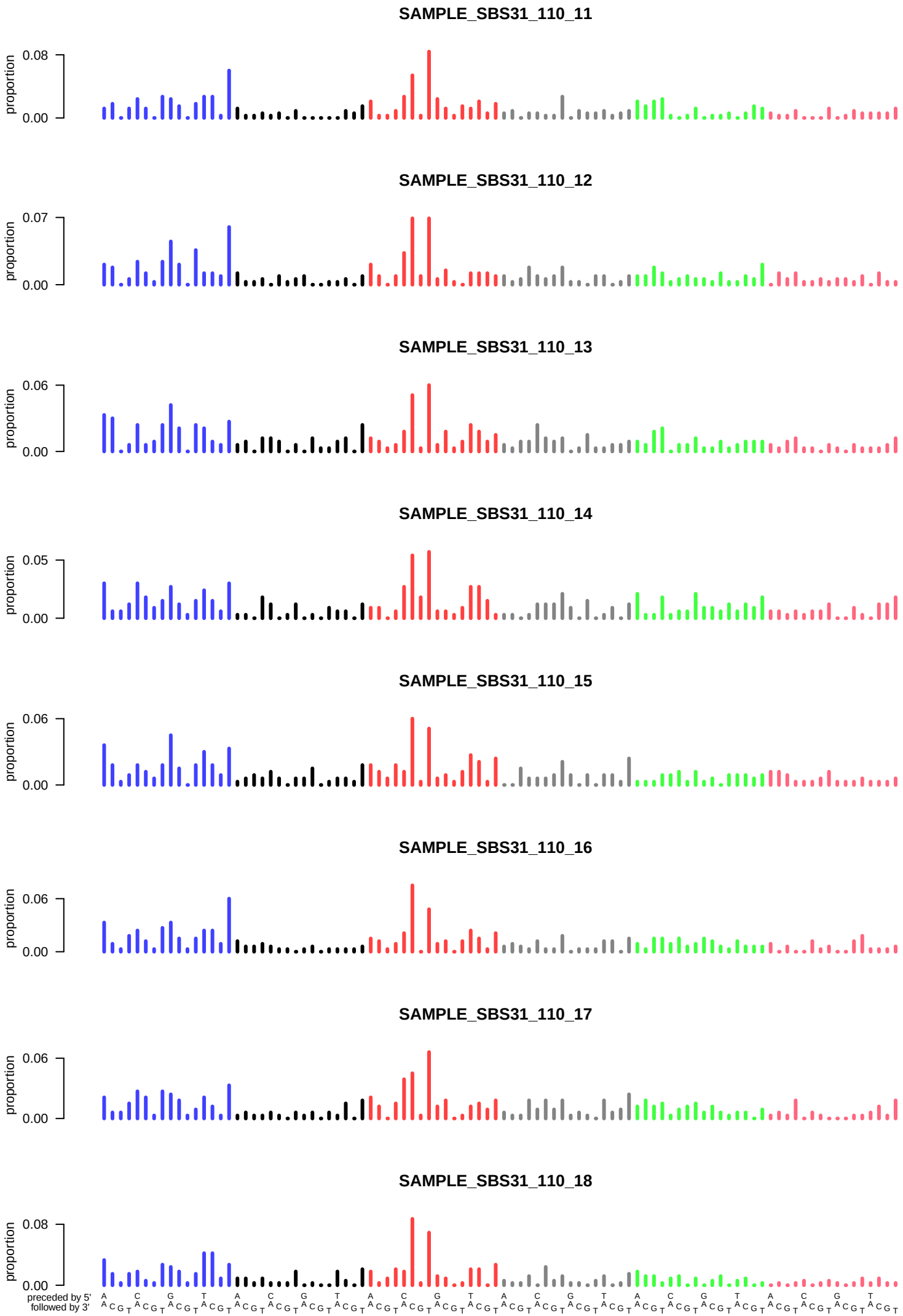
followed by 3'
A C G T A C G T A C G T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proportion
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SAMPLE_SBS31_110_14
proportion
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SAMPLE_SBS31_110_16
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SAMPLE_SBS31_110_17
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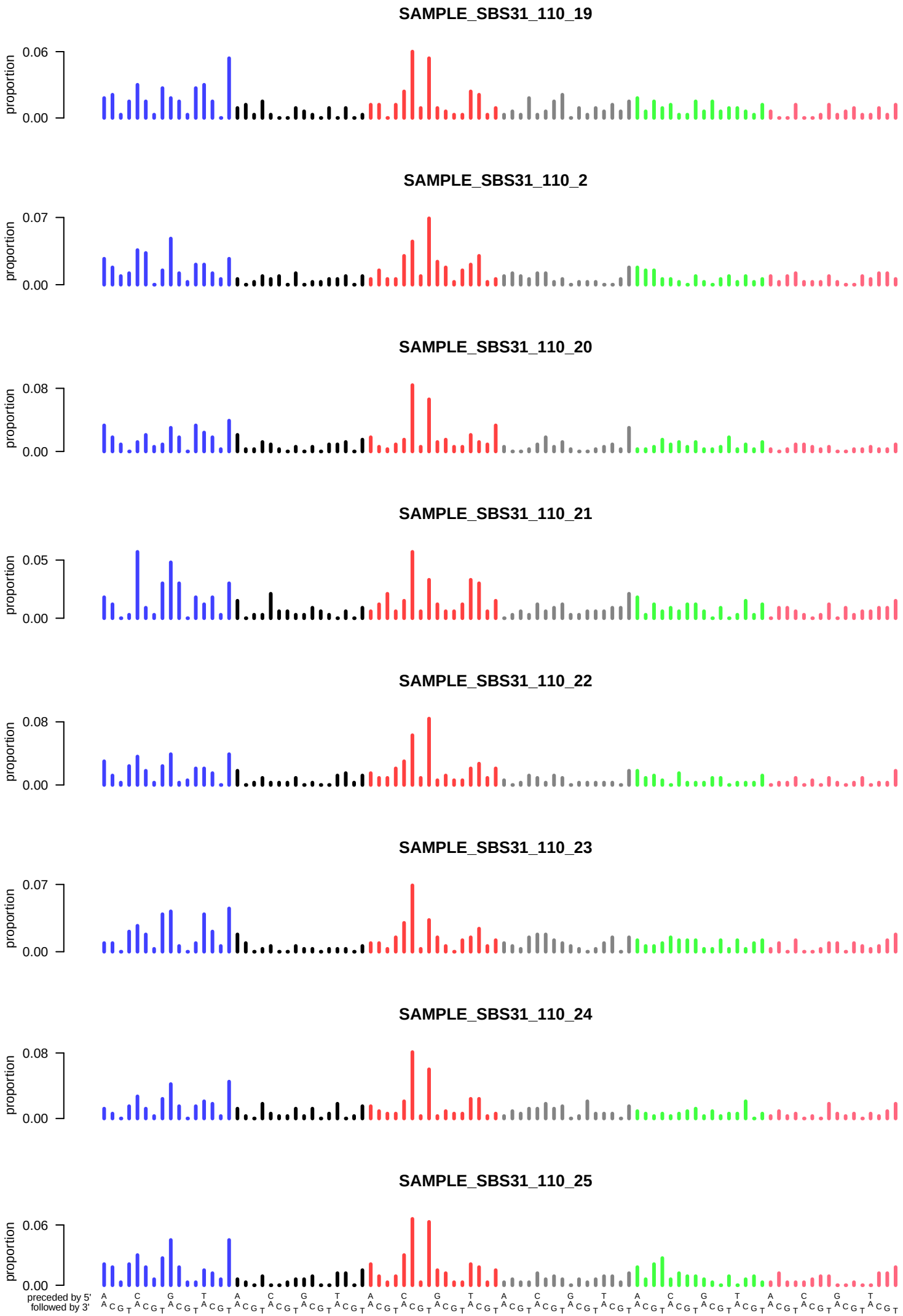
followed by 3'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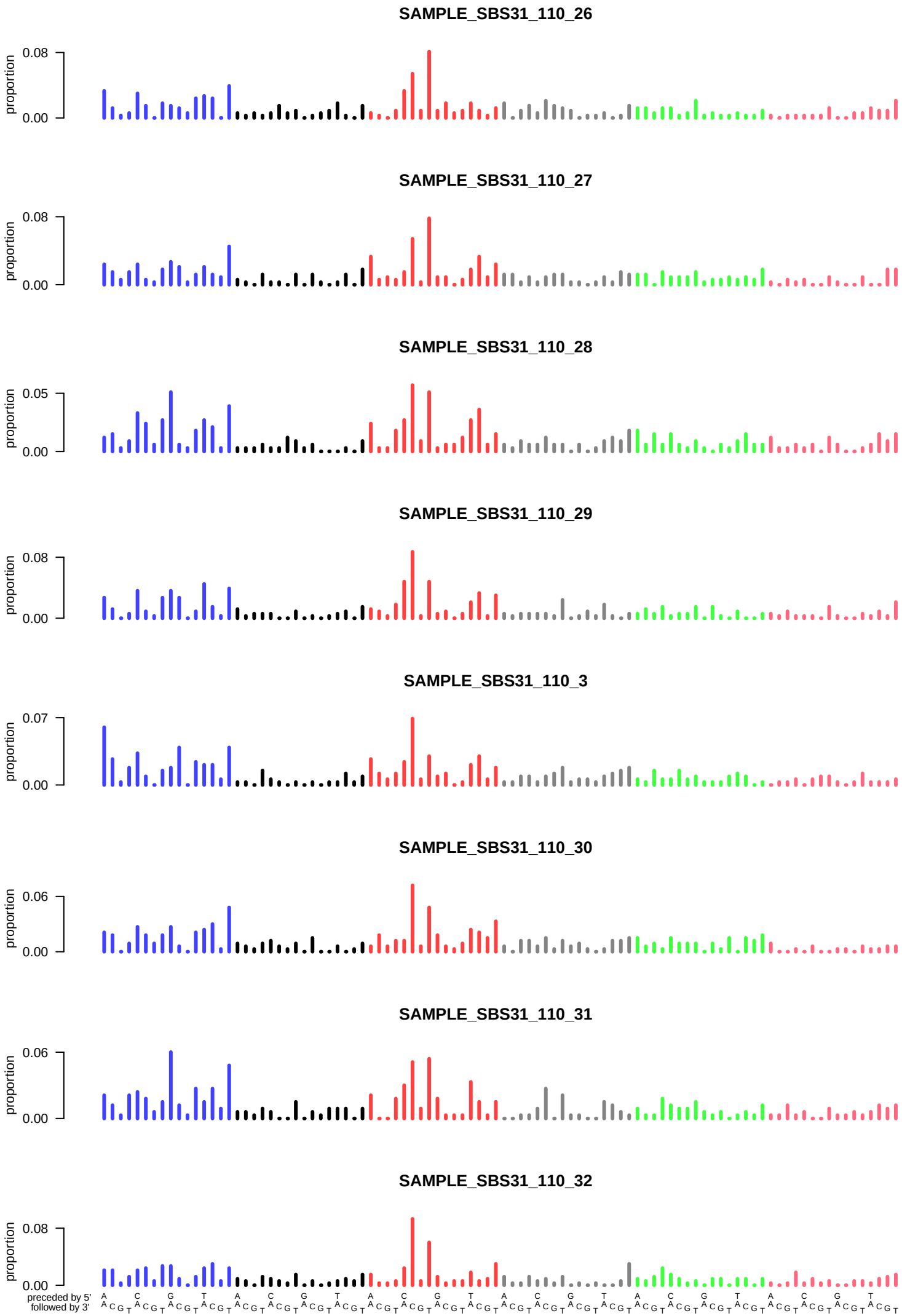
followed by 3'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SAMPLE_SBS31_110_29
proportion
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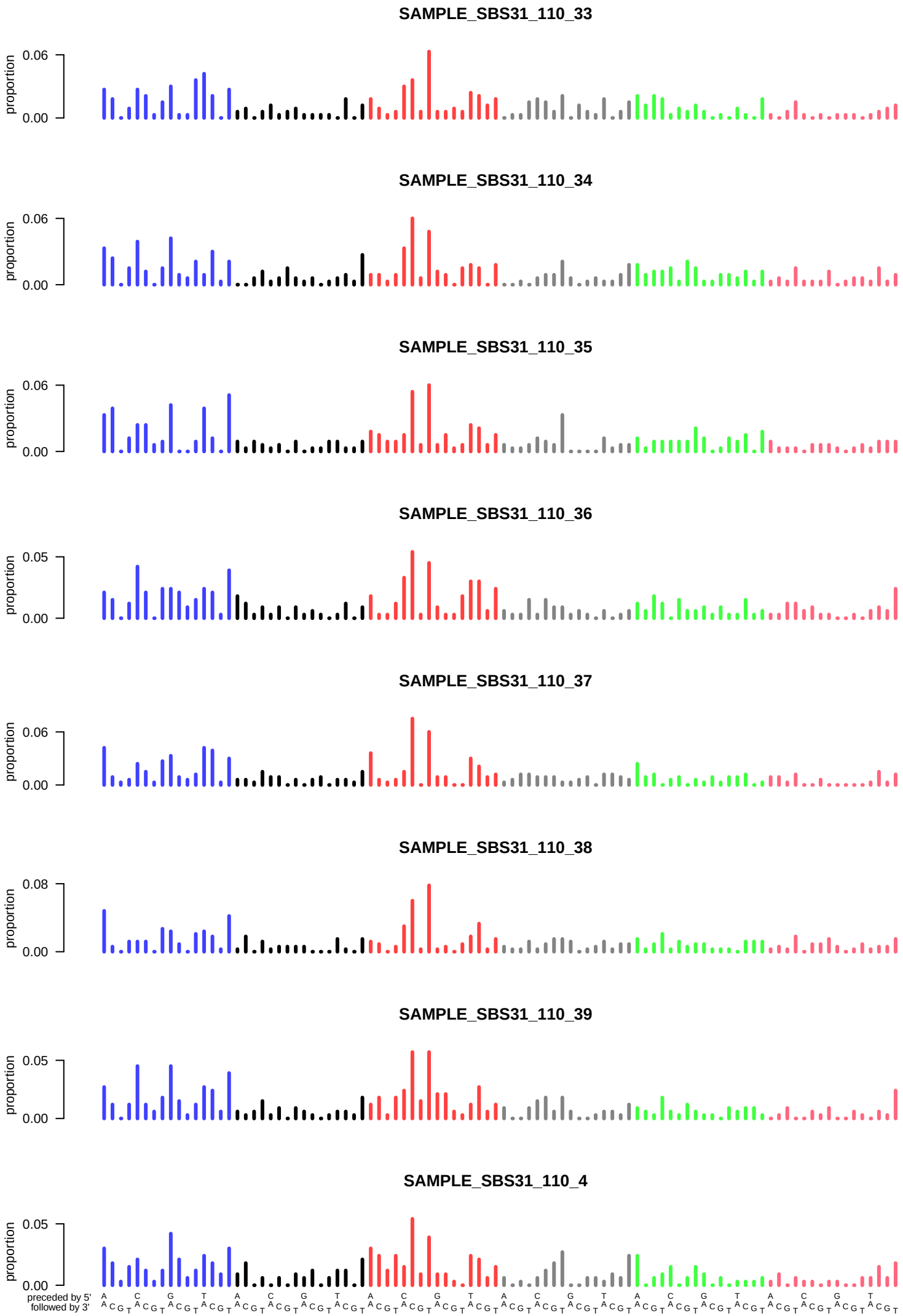
followed by 3'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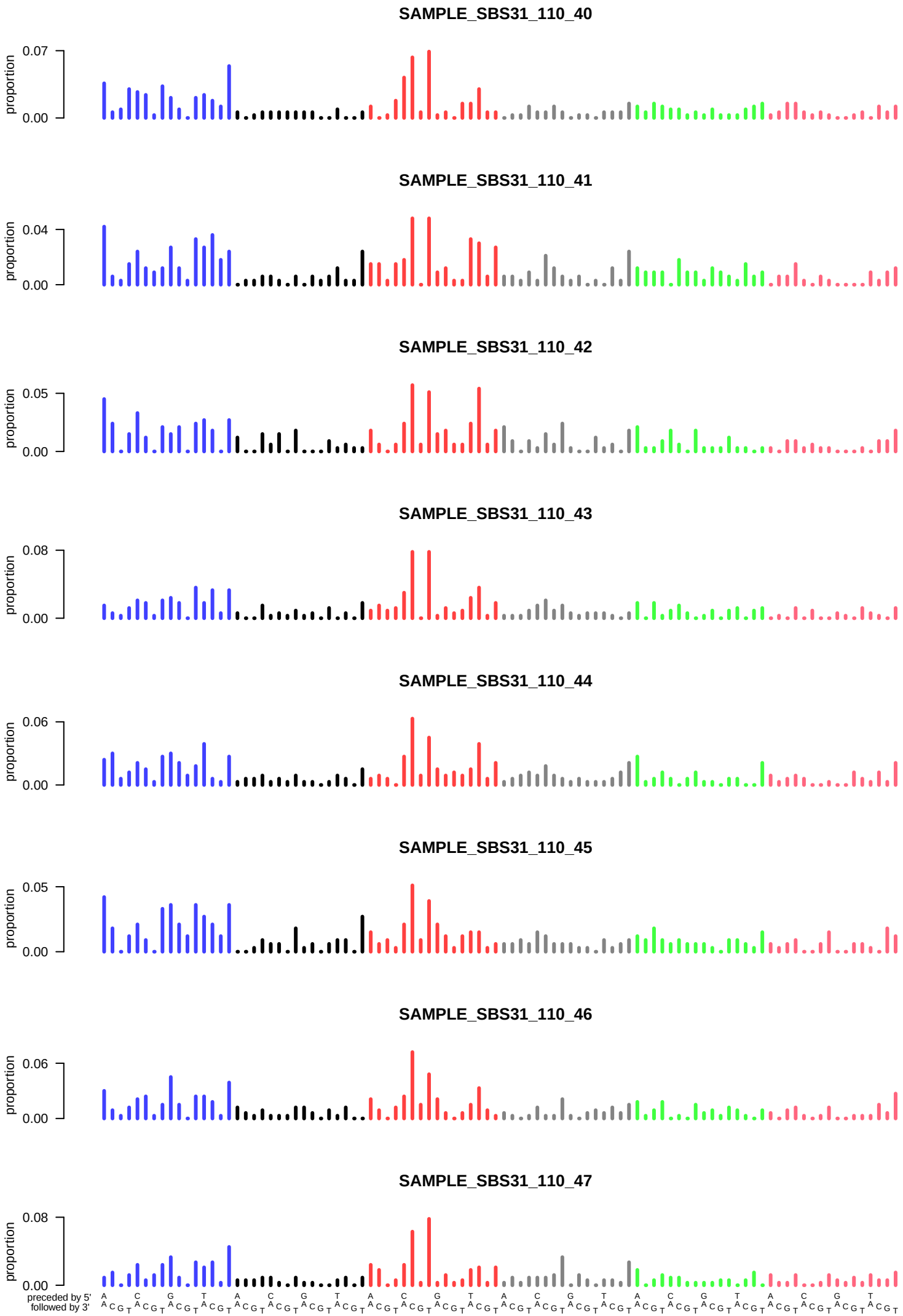
followed by 3'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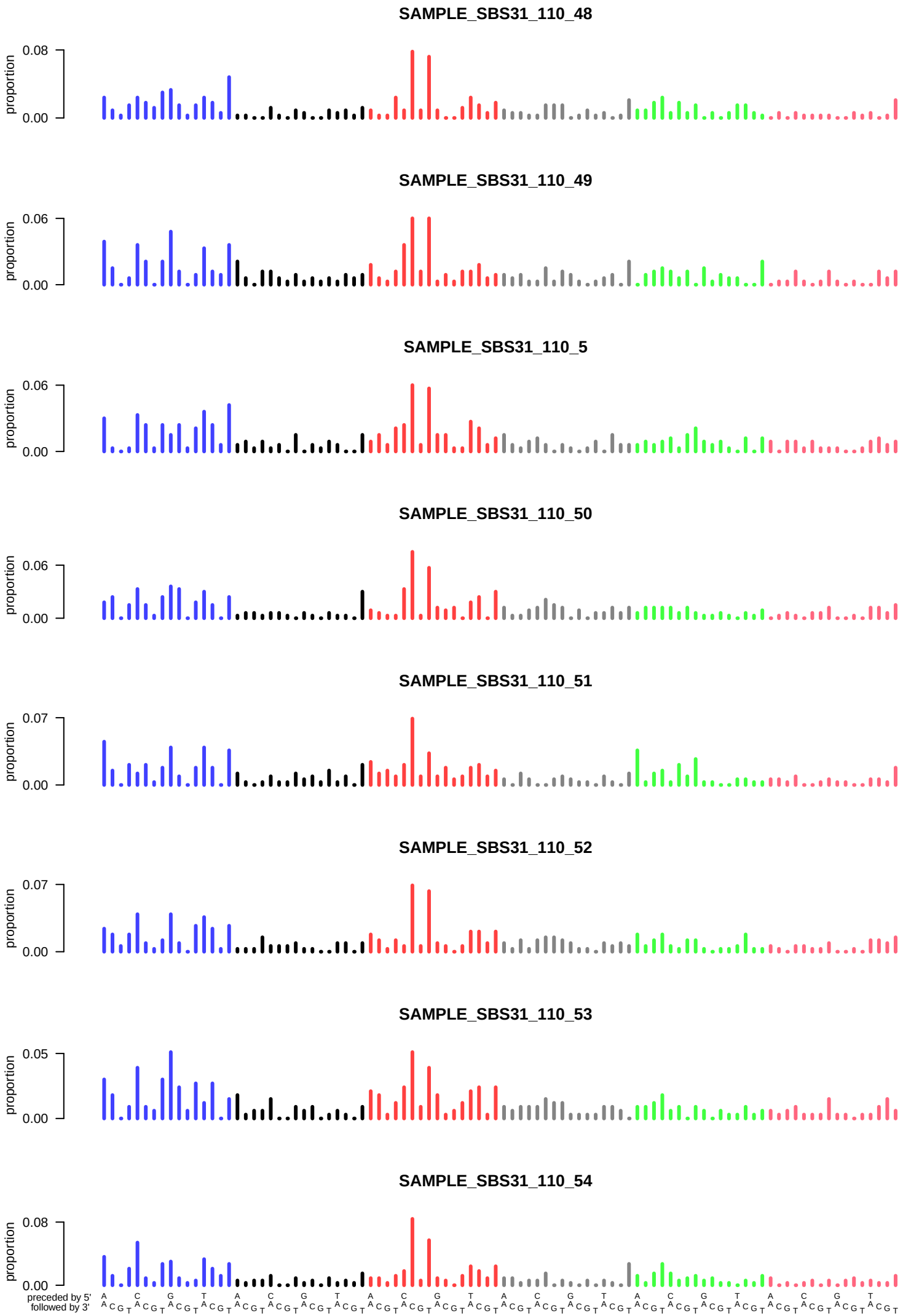
followed by 3'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proportion
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SAMPLE_SBS31_110_53
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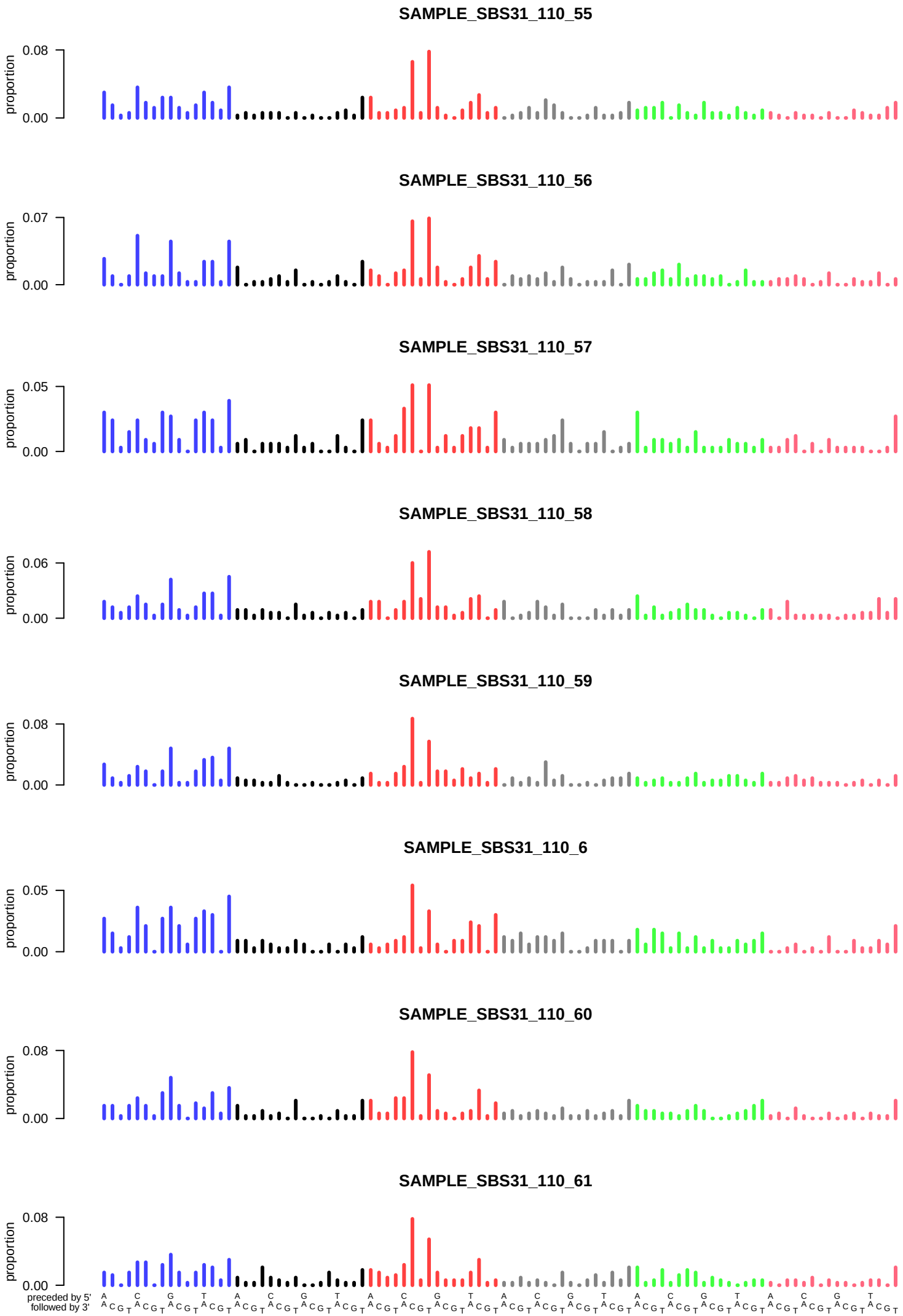
followed by 3'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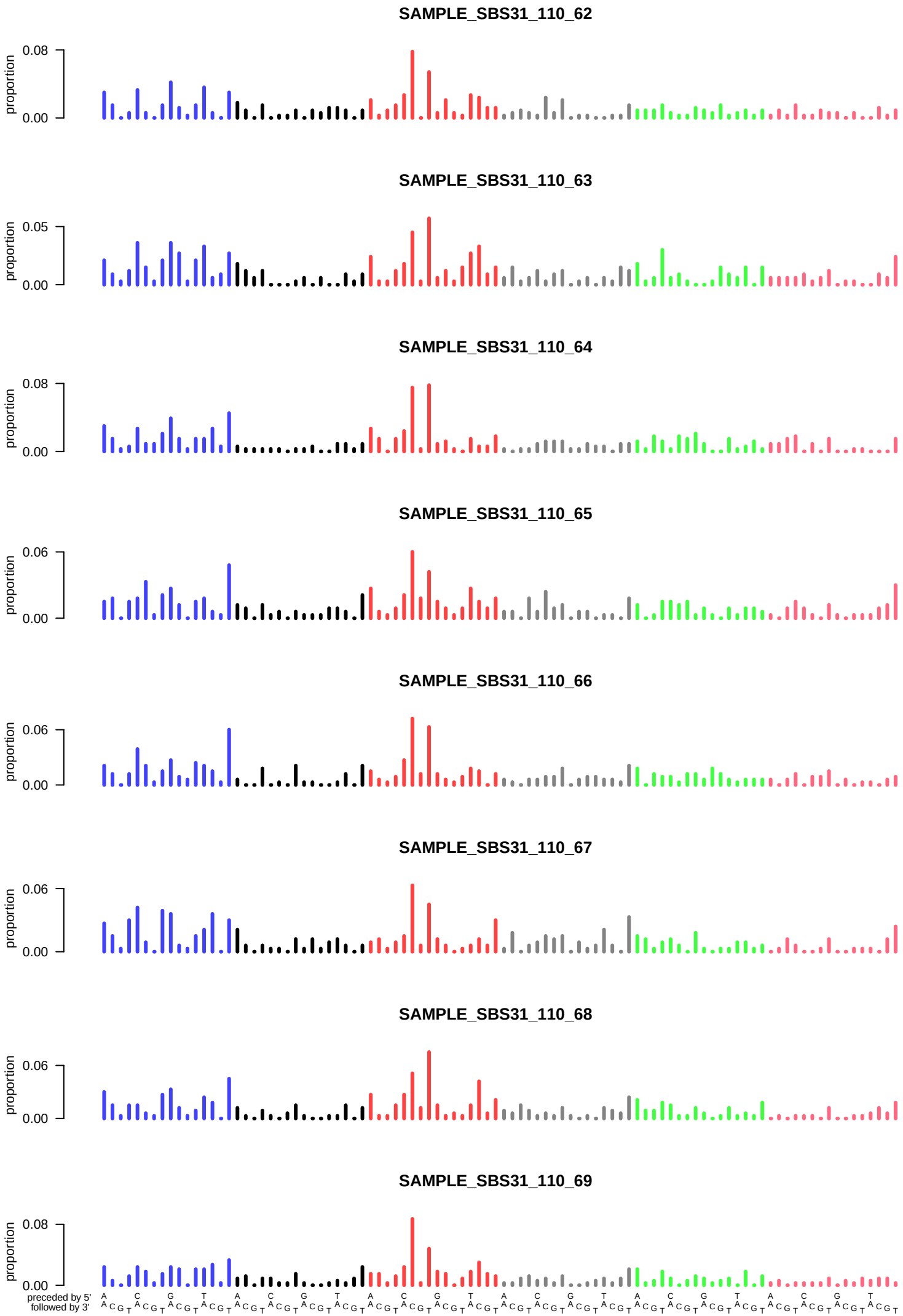
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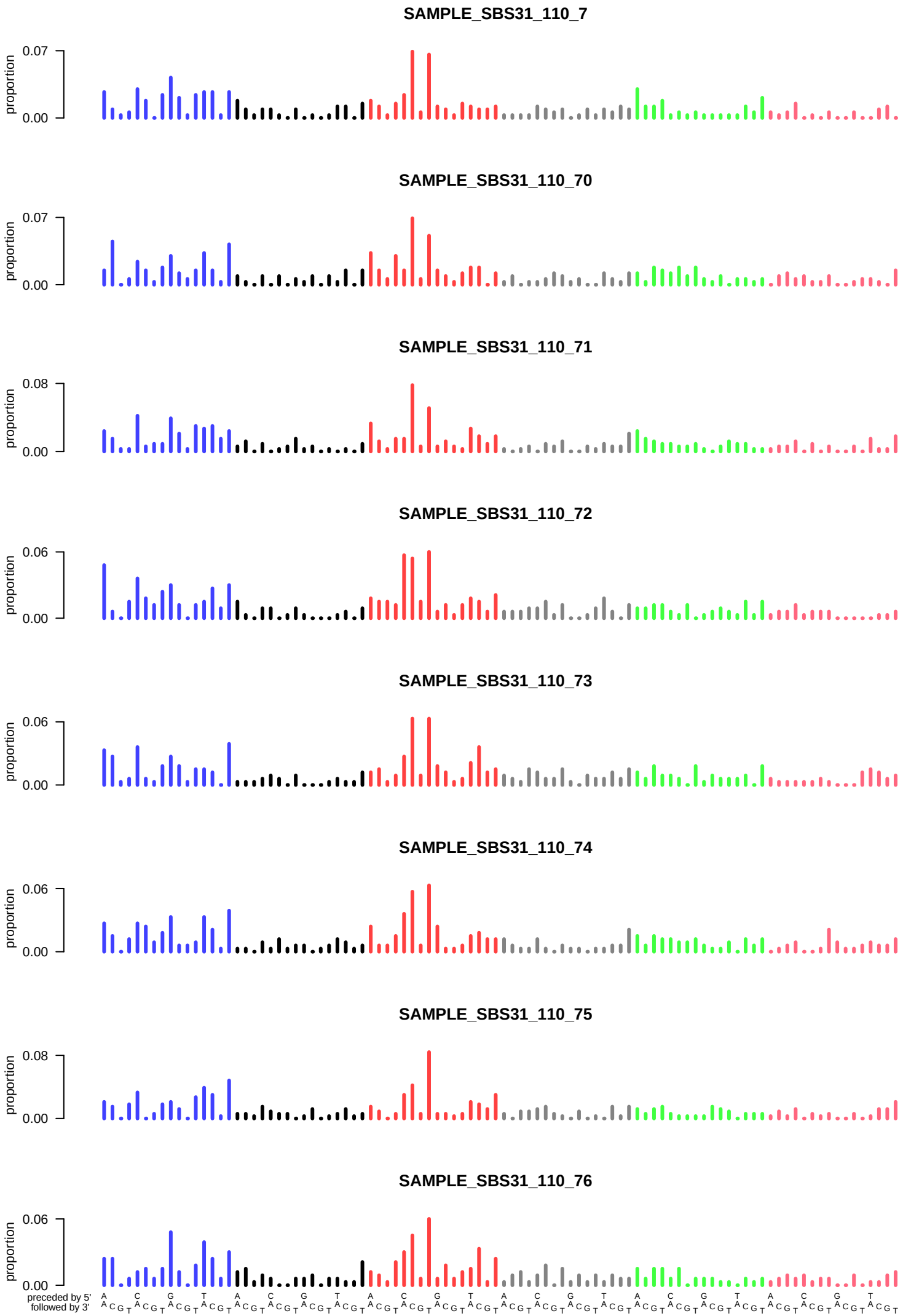
followed by 3'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SAMPLE_SBS31_110_72
SAMPLE_SBS31_110_73
SAMPLE_SBS31_110_74
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SAMPLE_SBS31_110_76
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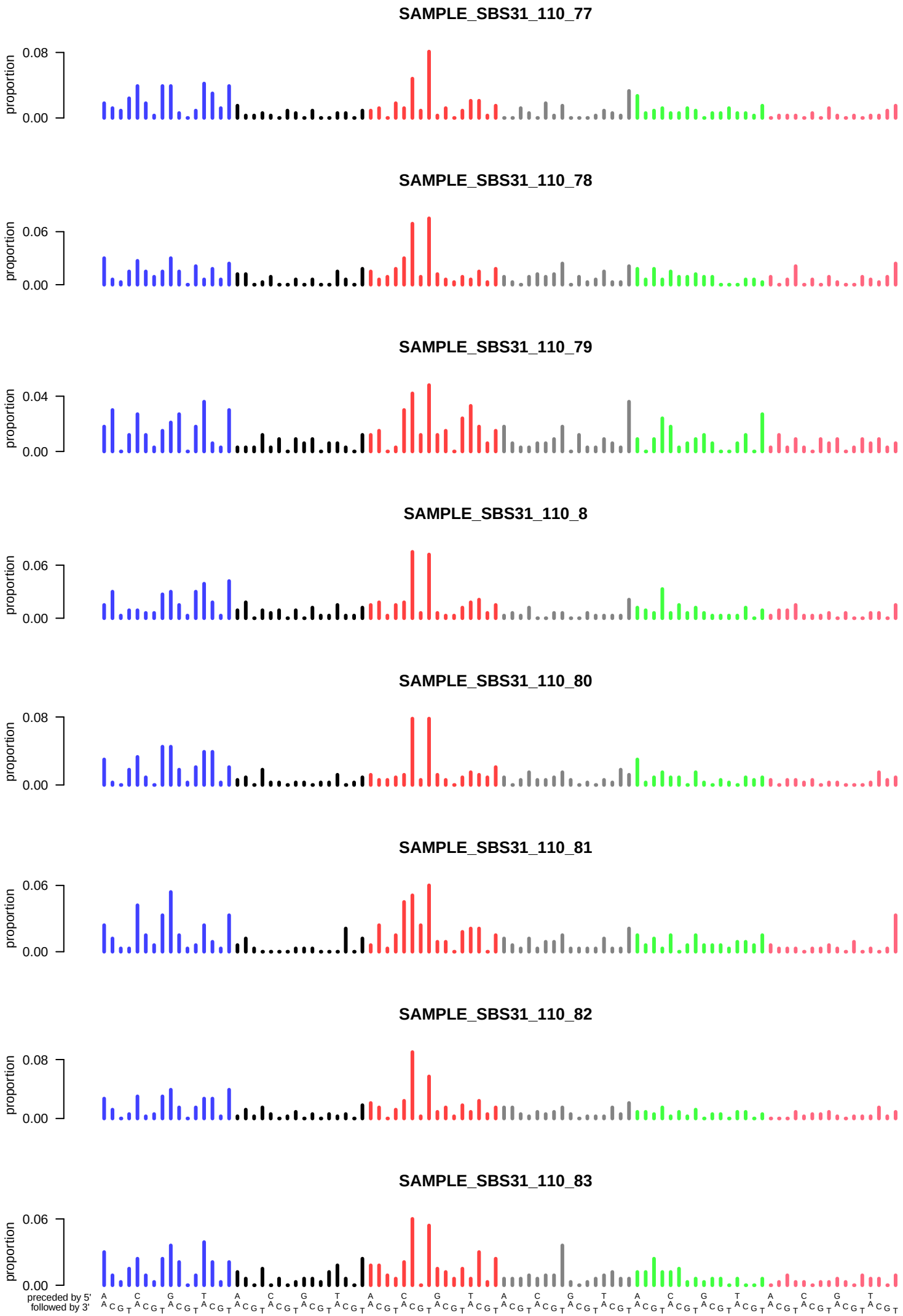
followed by 3'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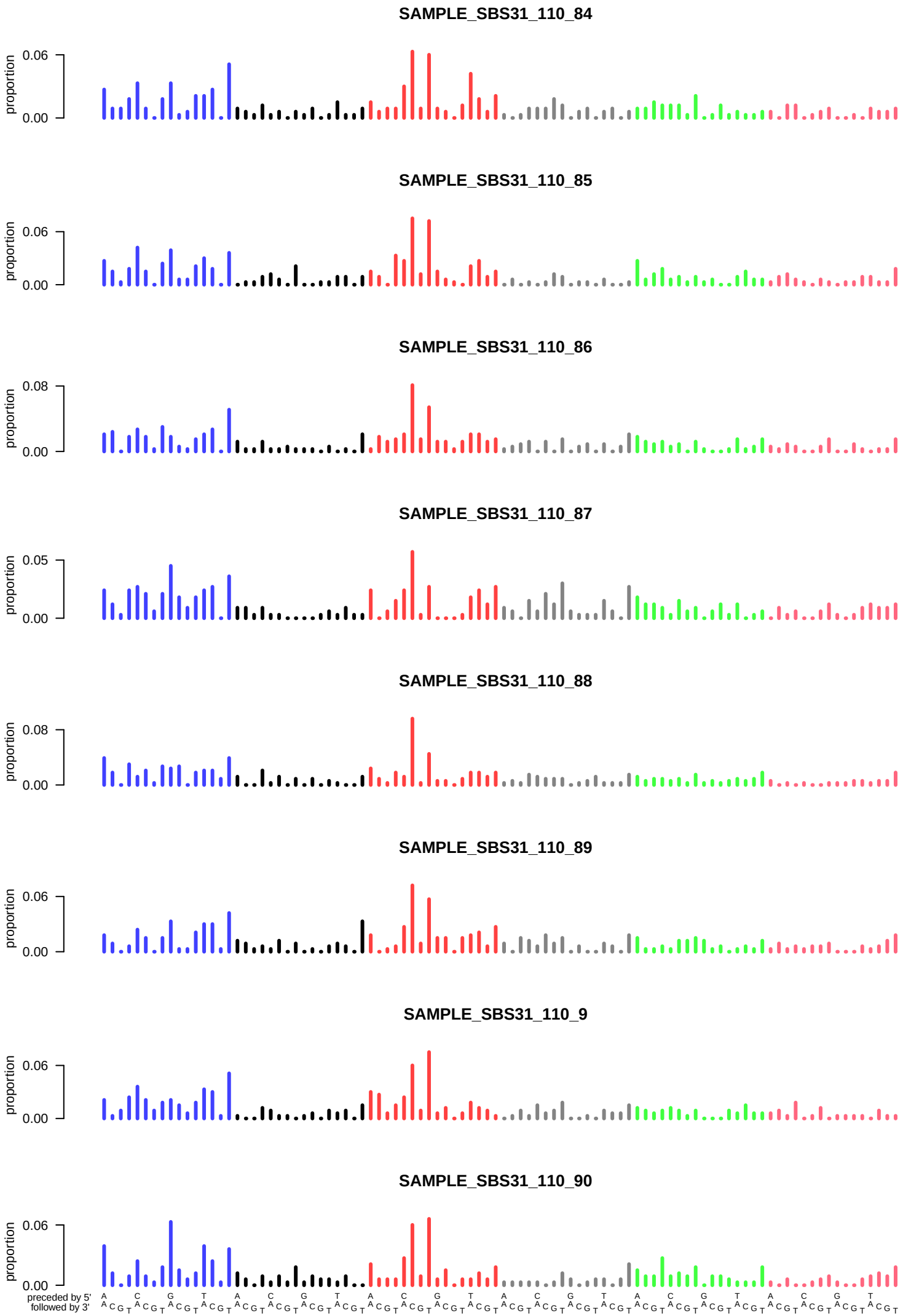
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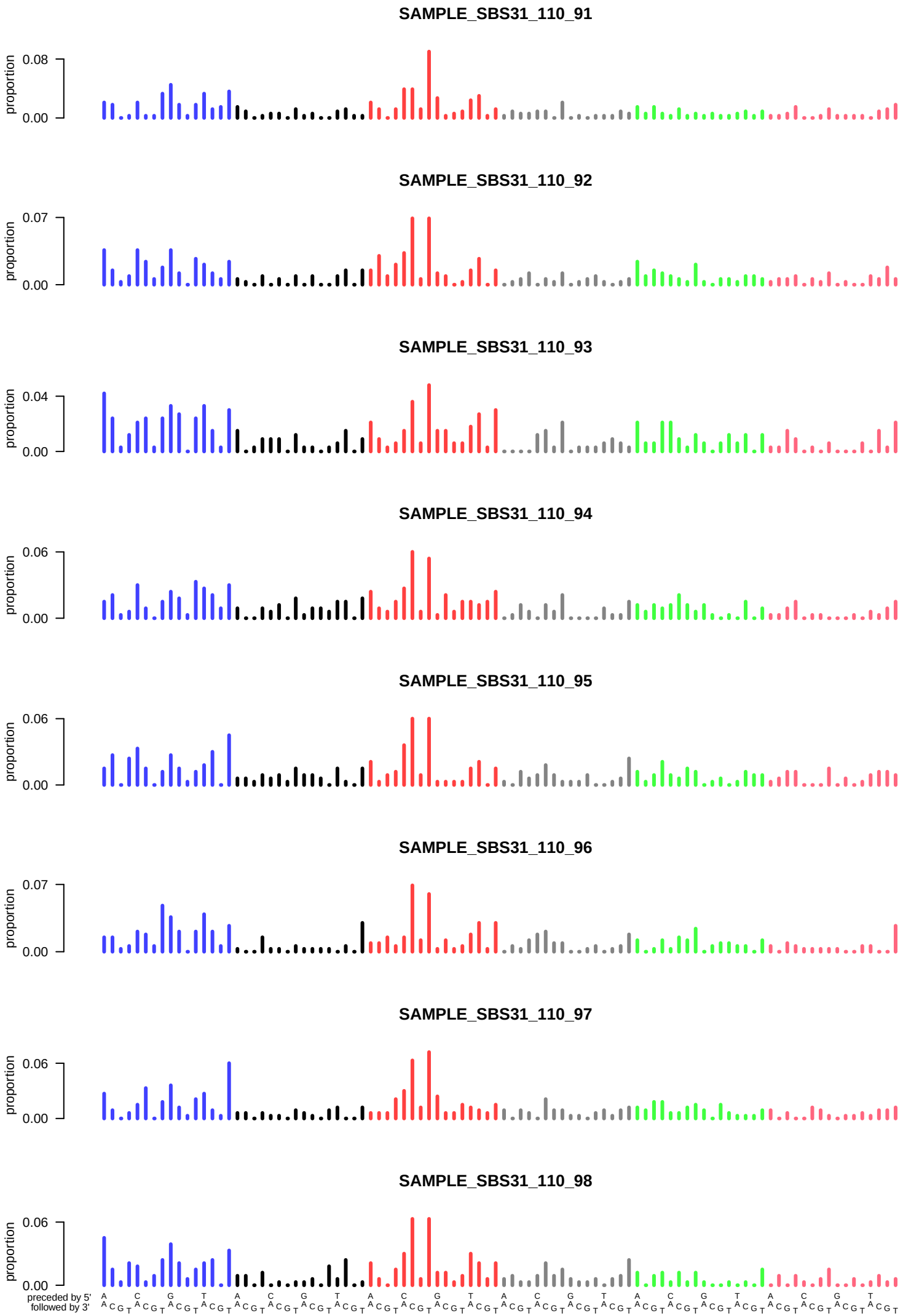
followed by 3'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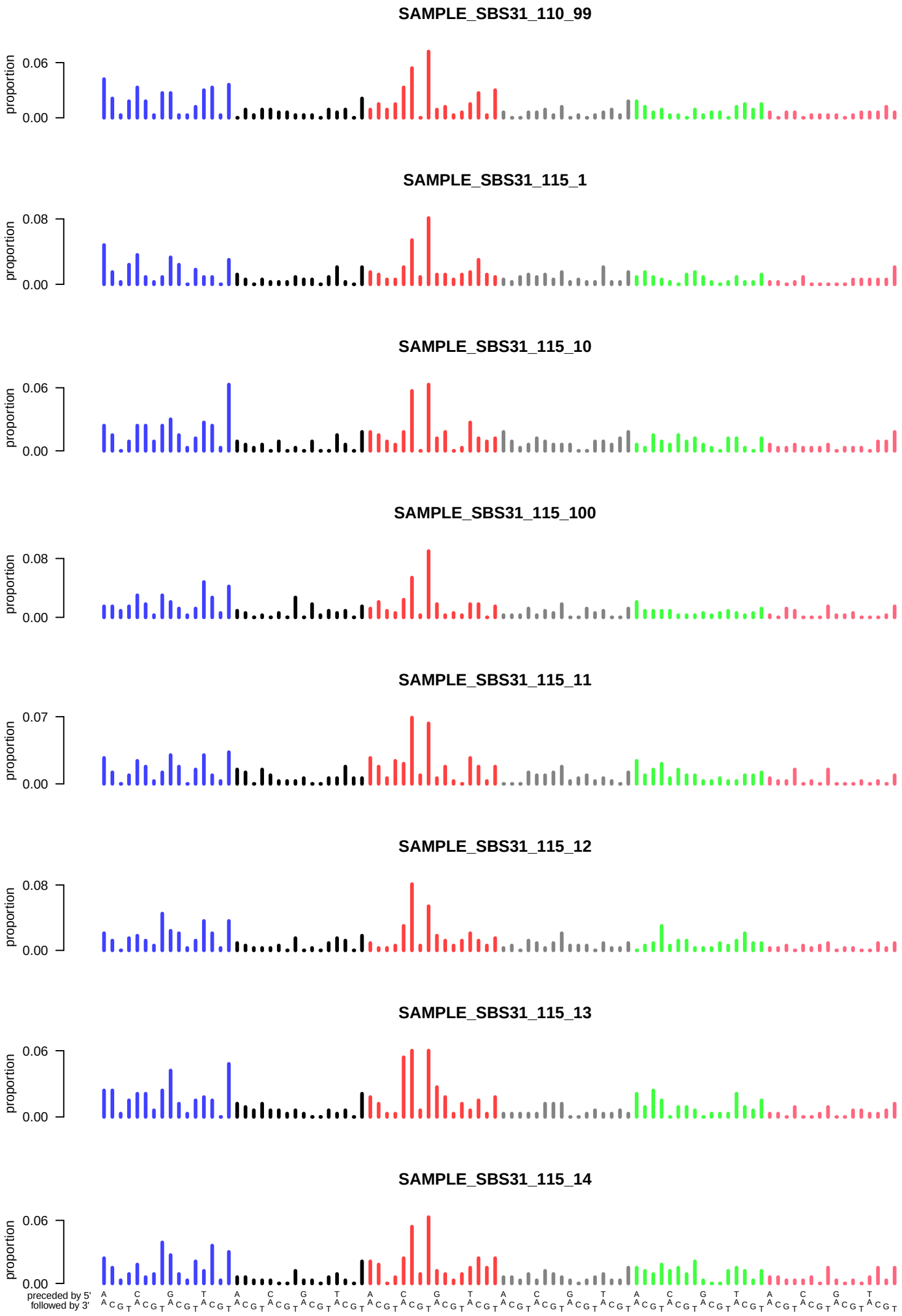
followed by 3'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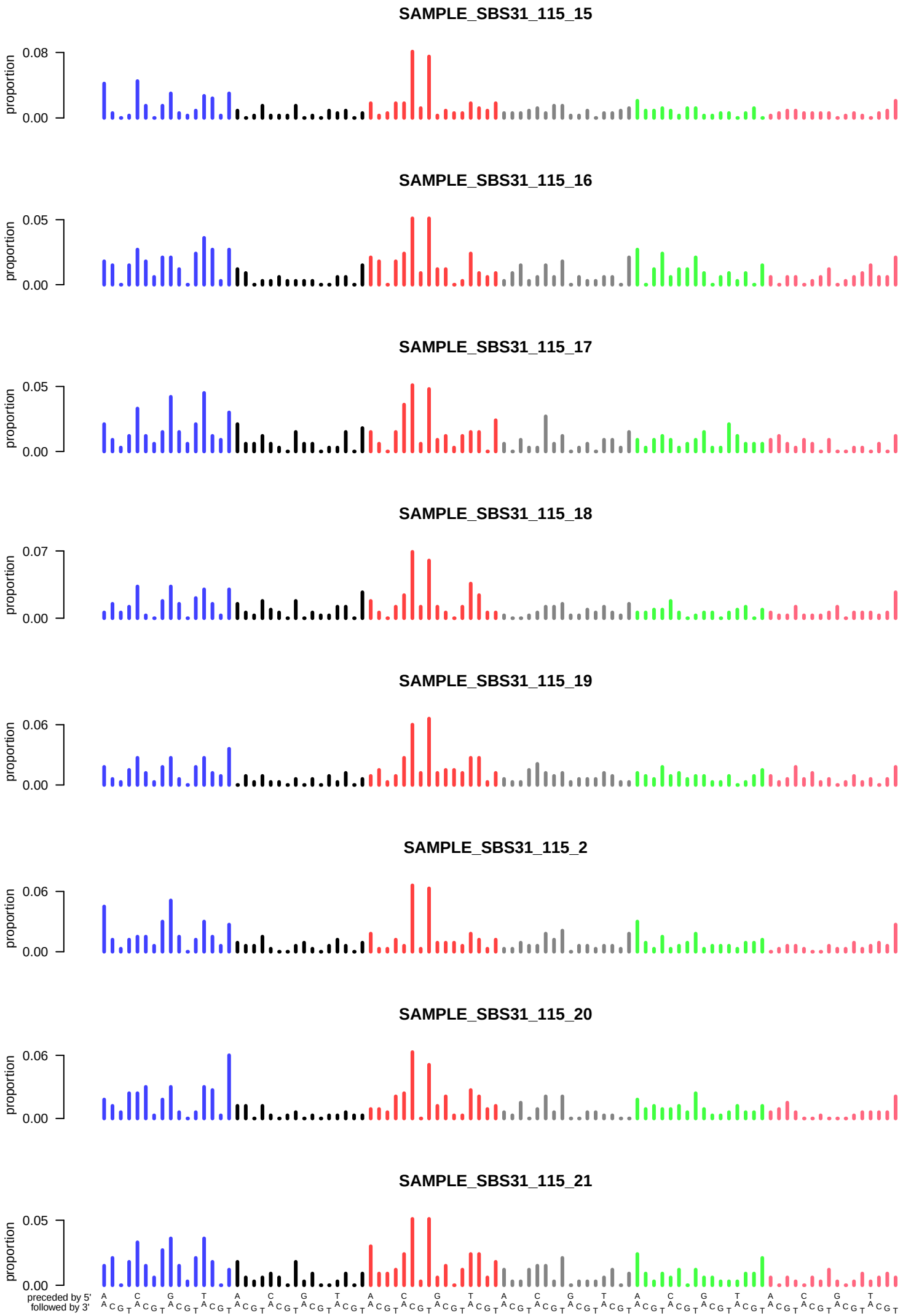
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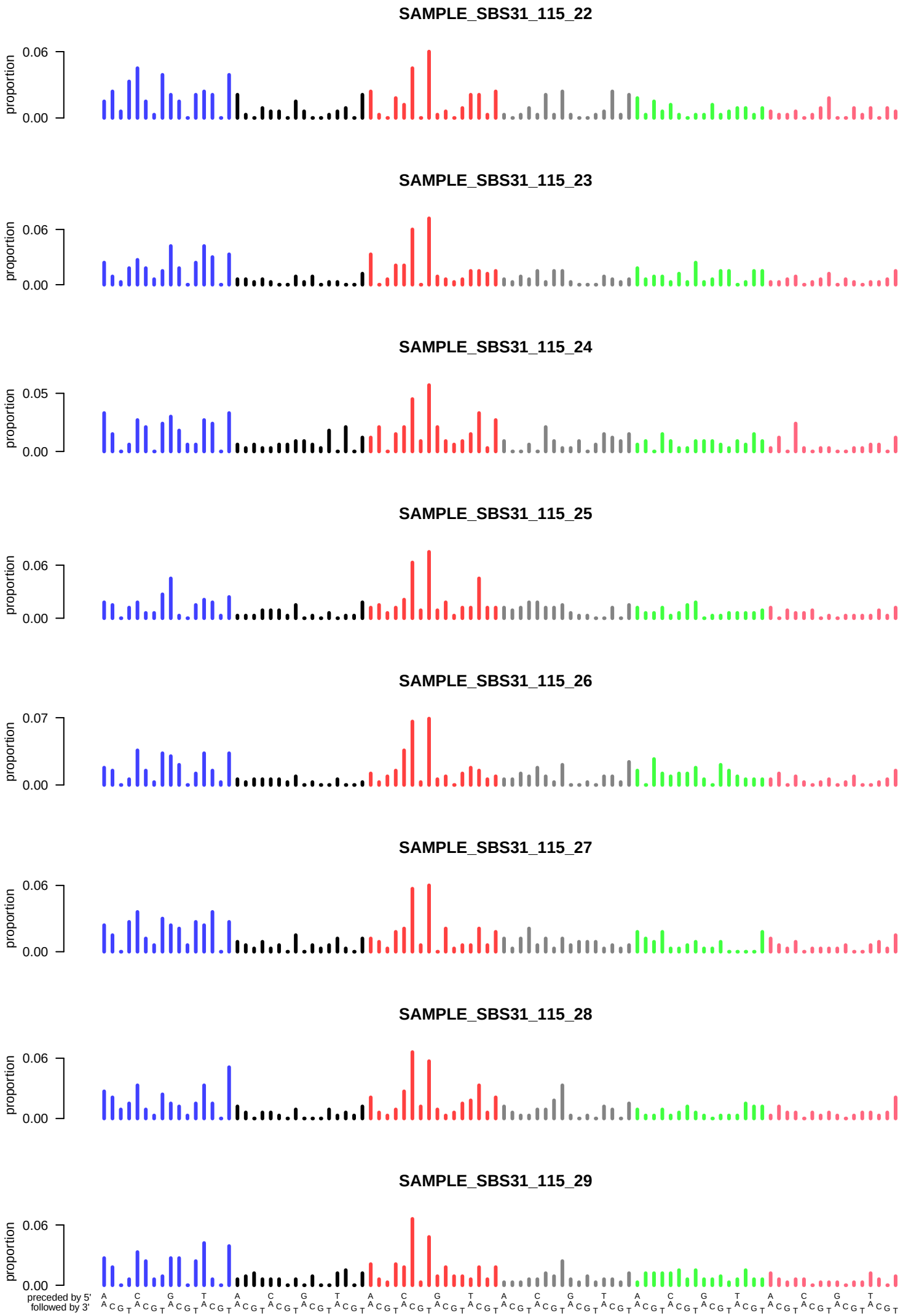
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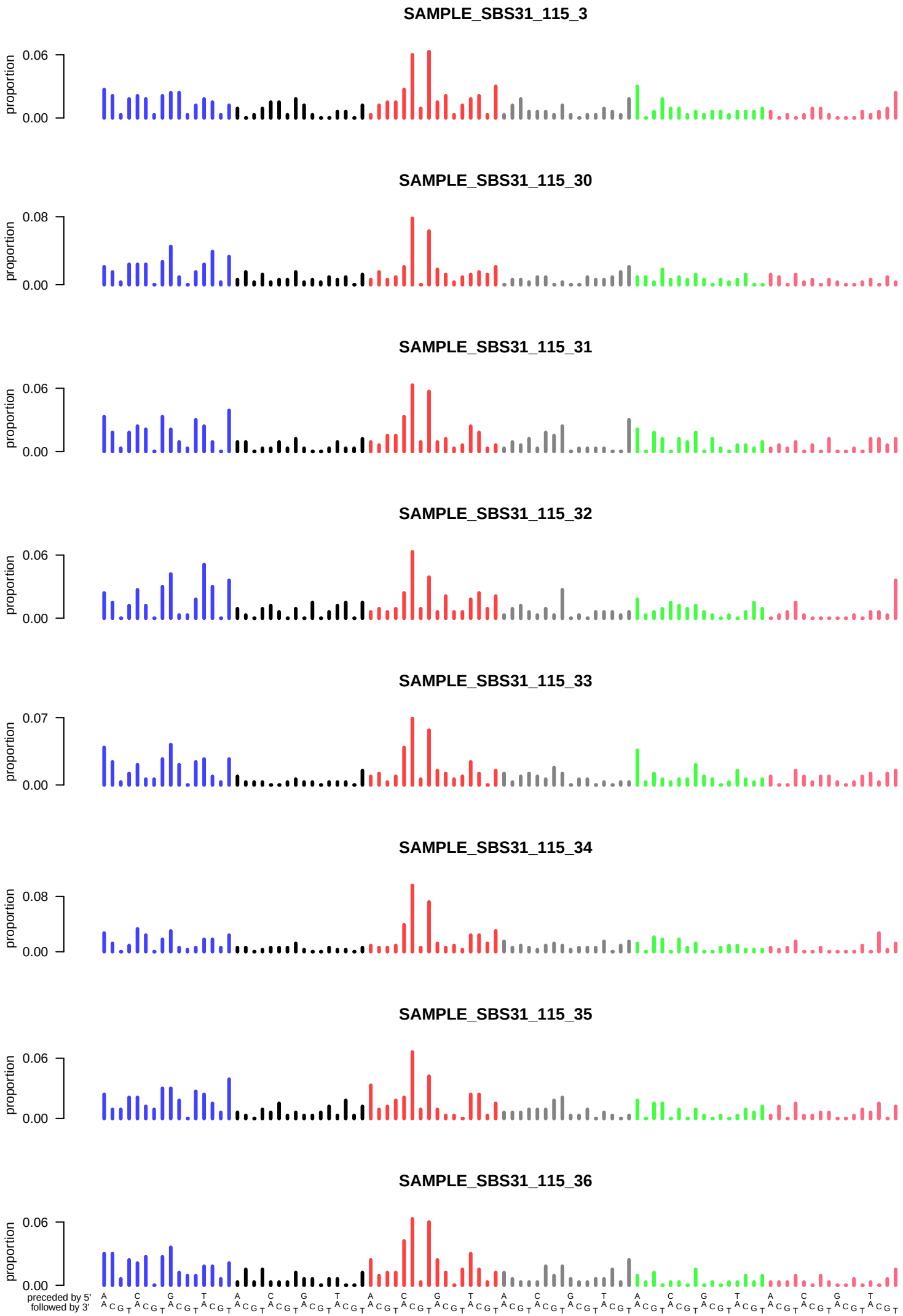
A C G T A C G T A C G T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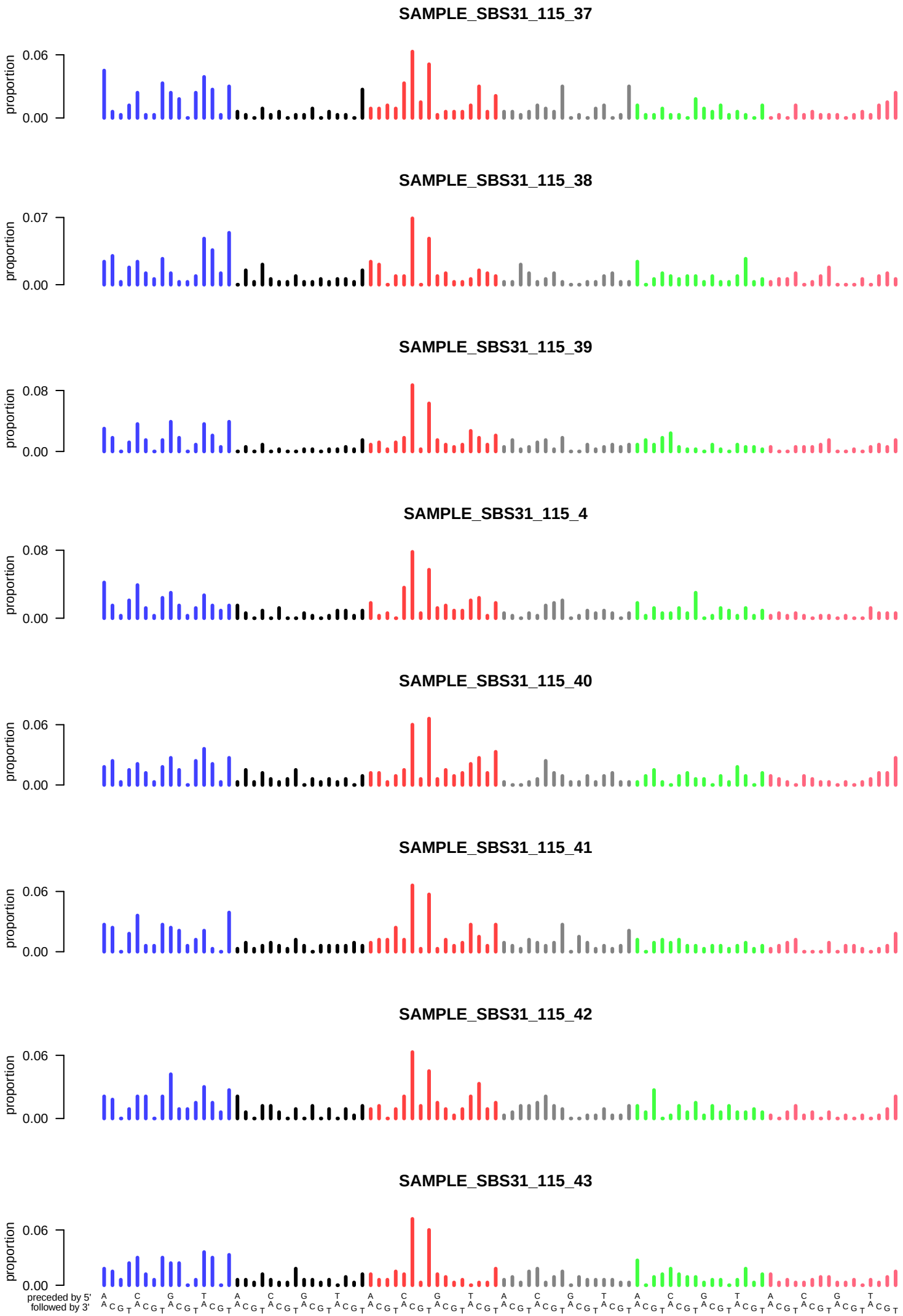
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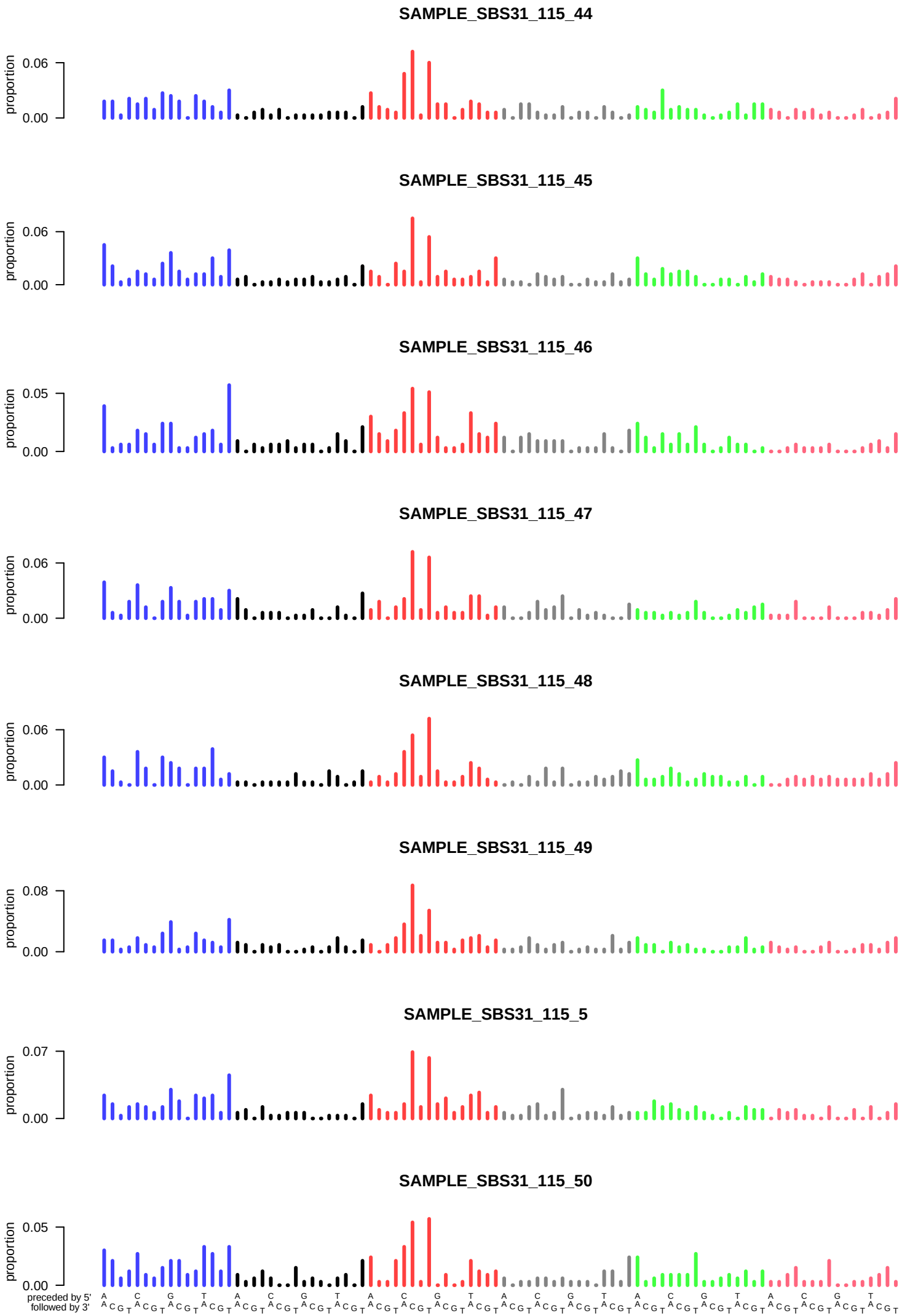
followed by 3'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proportion
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SAMPLE_SBS31_115_5
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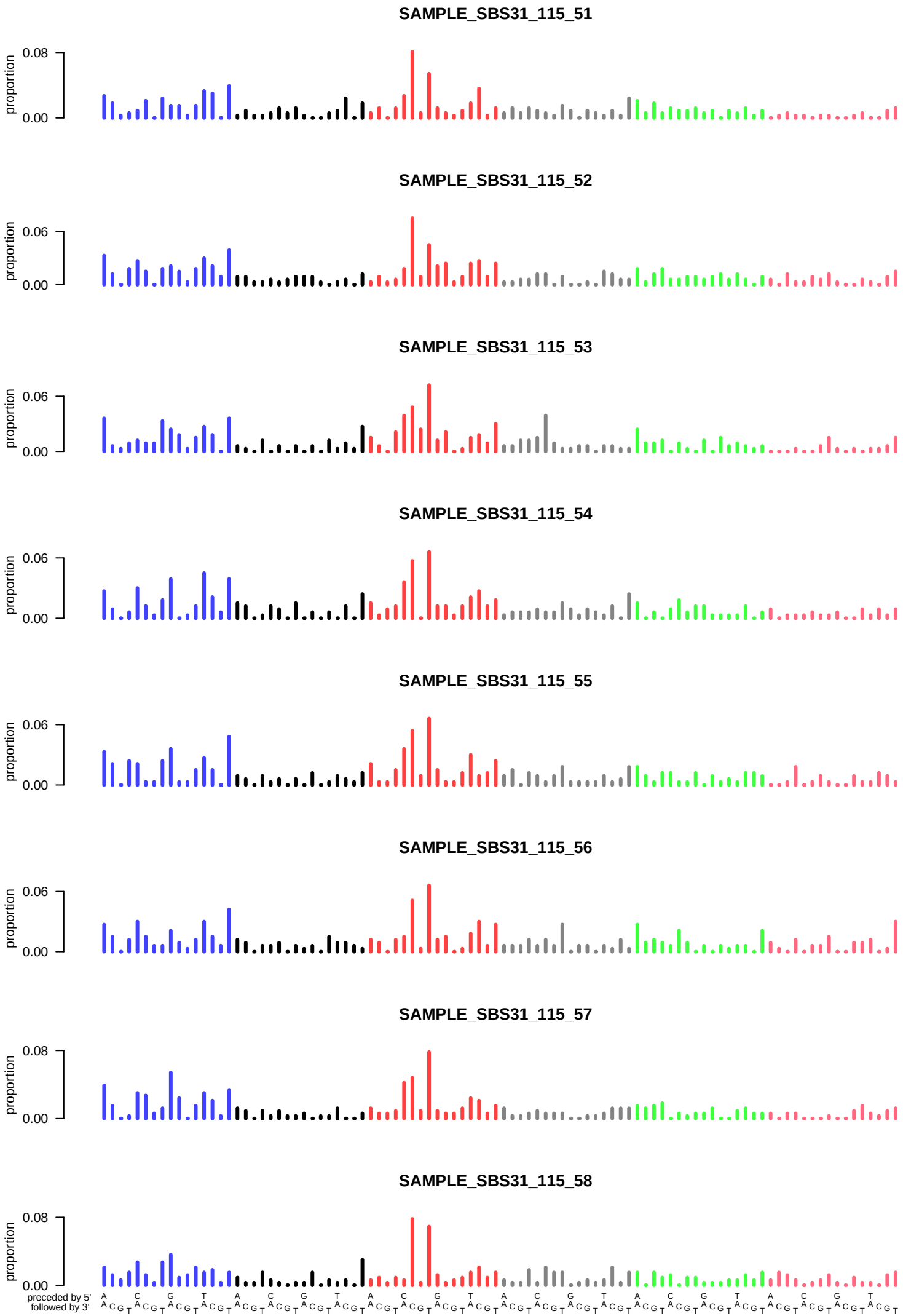
followed by 3'
A C G T A C G T A C G T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SAMPLE_SBS31_115_57
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SAMPLE_SBS31_115_58
proportion
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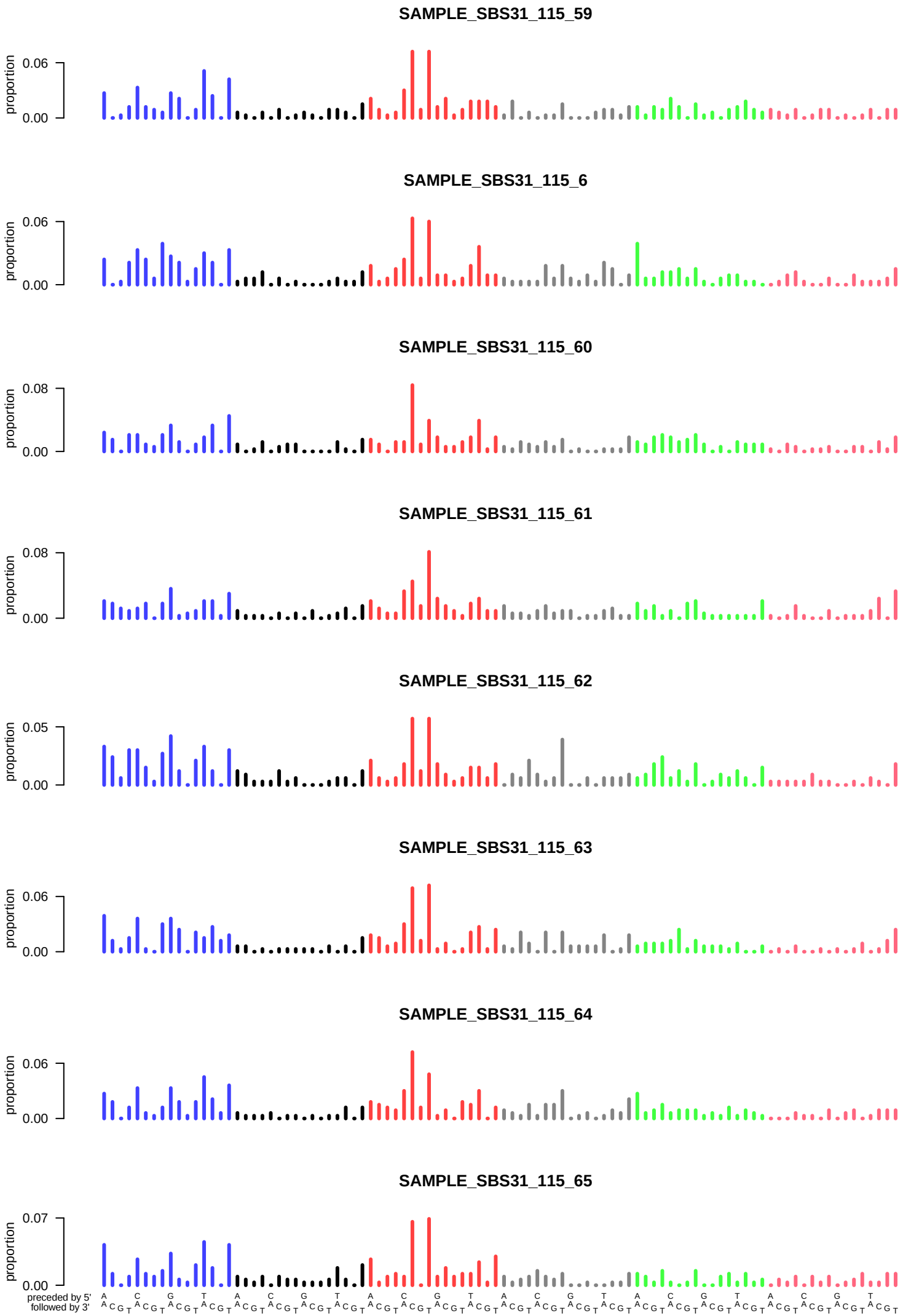
preceded by 5'
followed by 3'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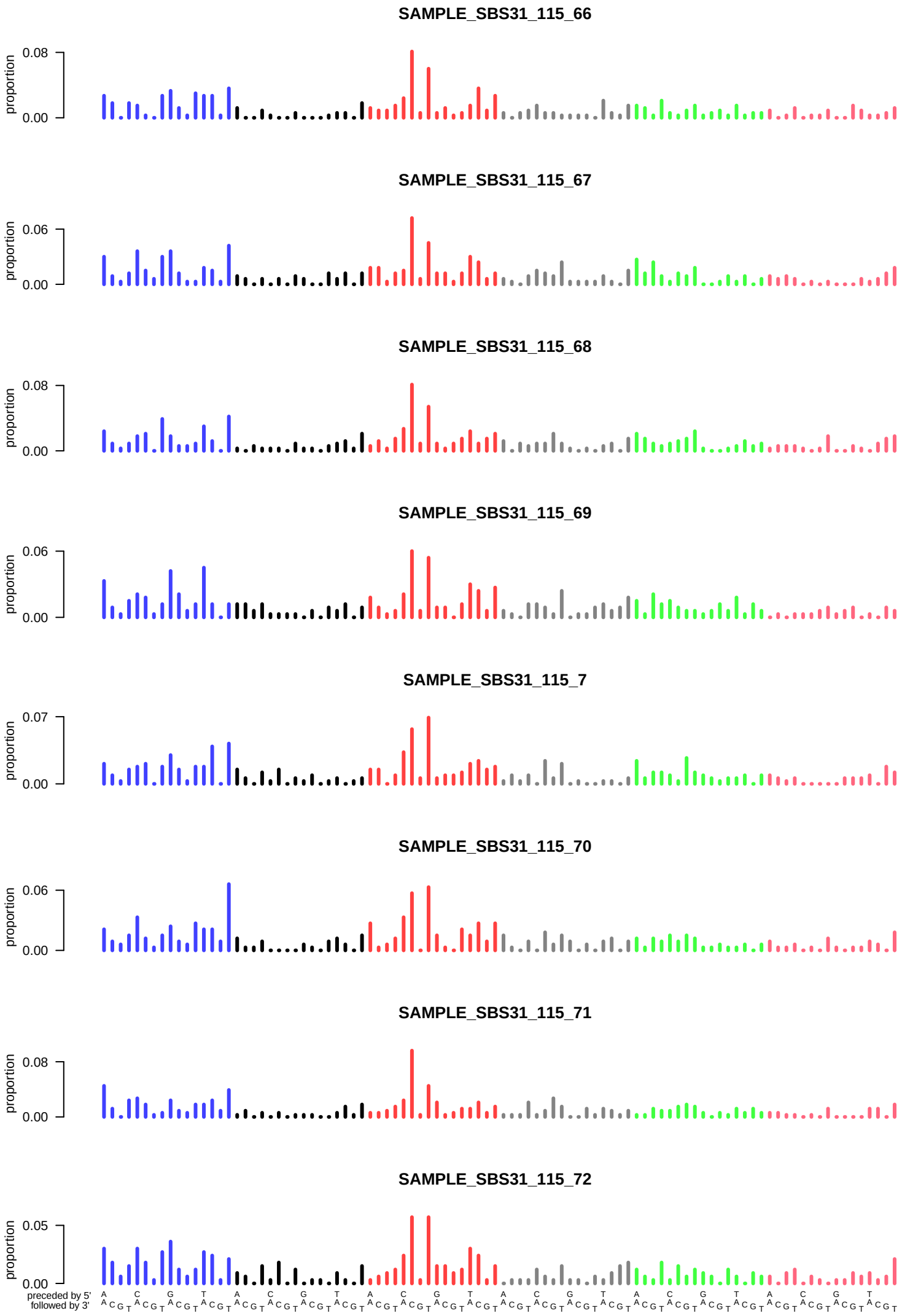
followed by 3'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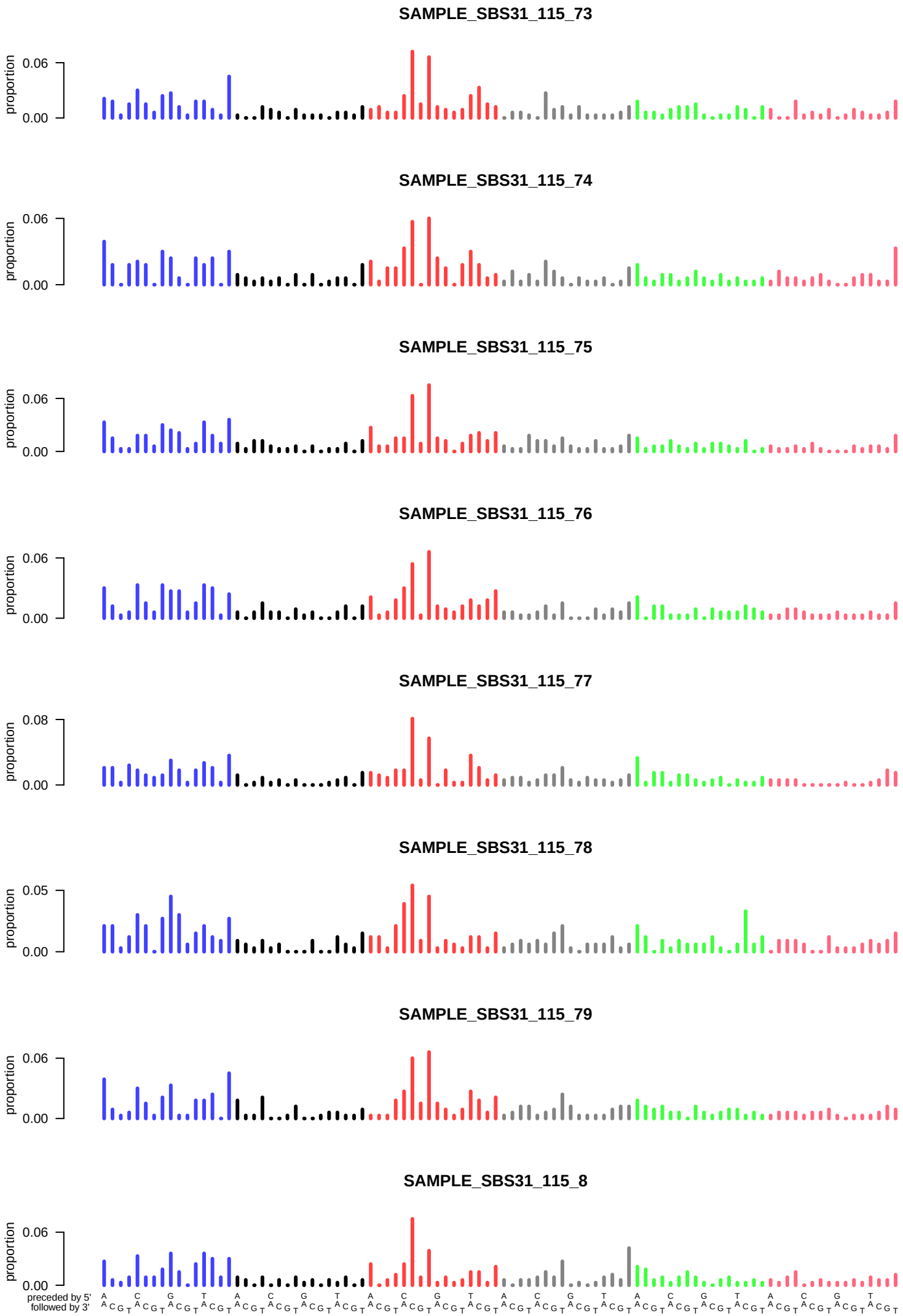
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followed by 3'
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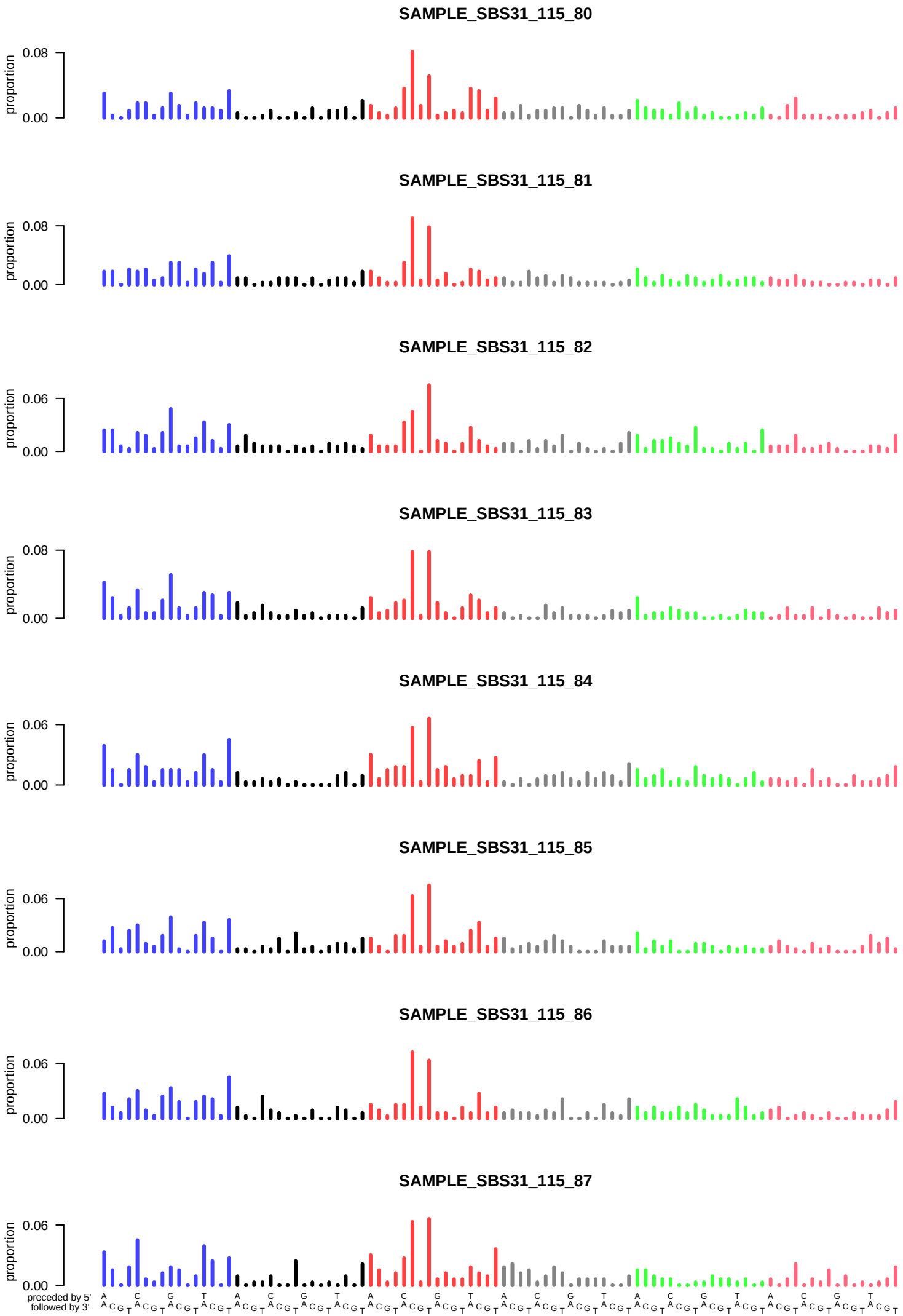
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SAMPLE_SBS31_115_86
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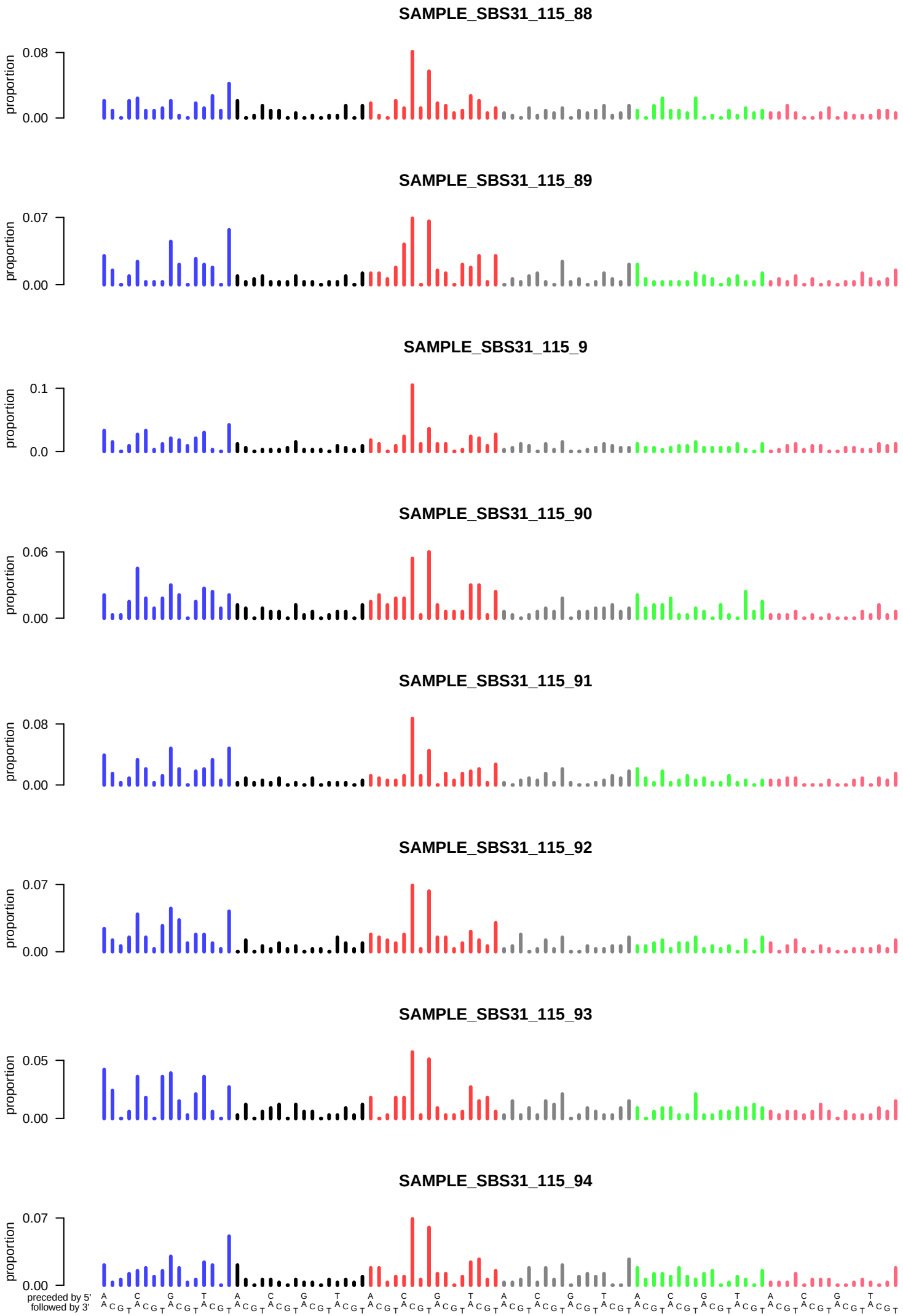
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SAMPLE_SBS31_115_93
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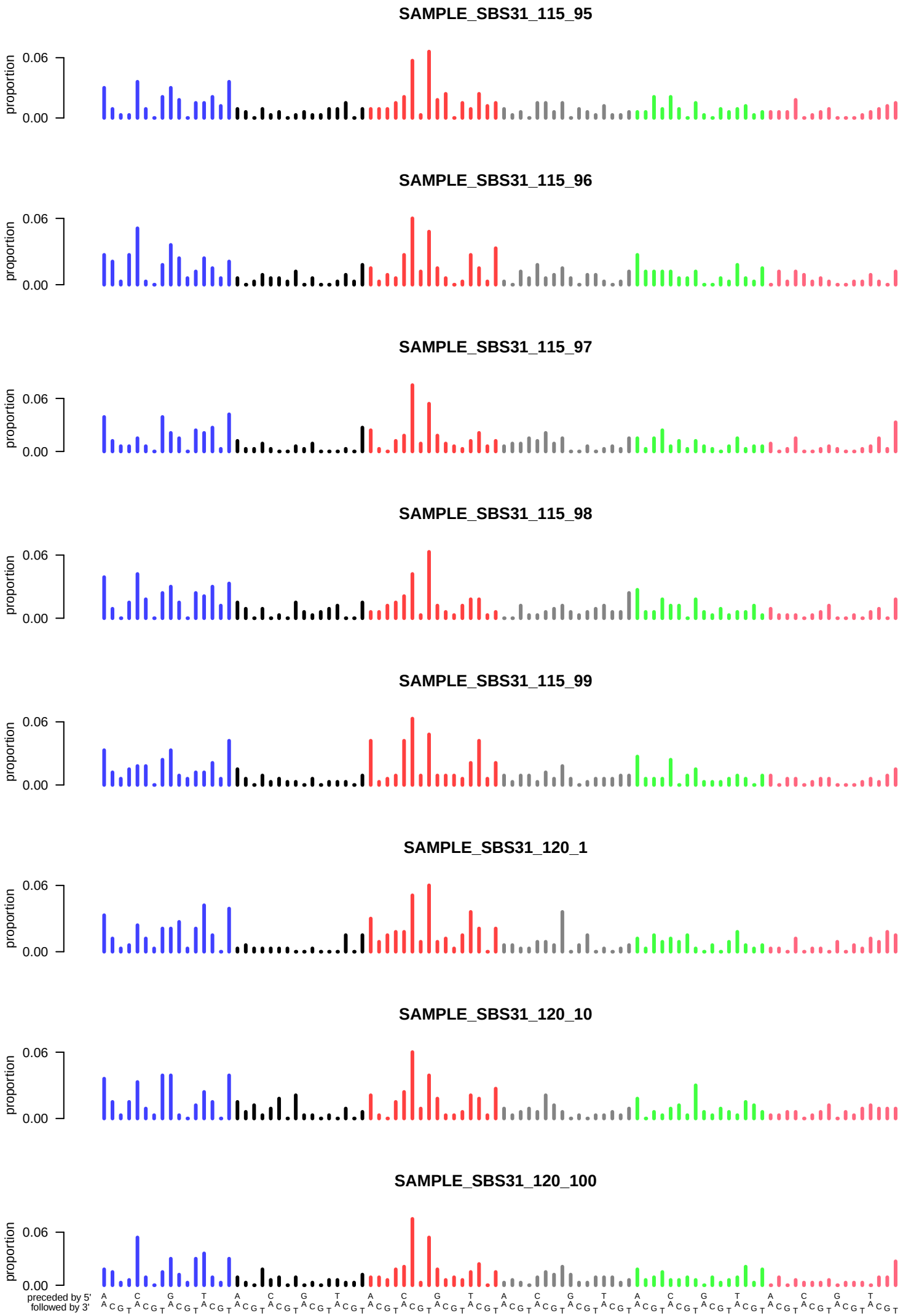
followed by 3'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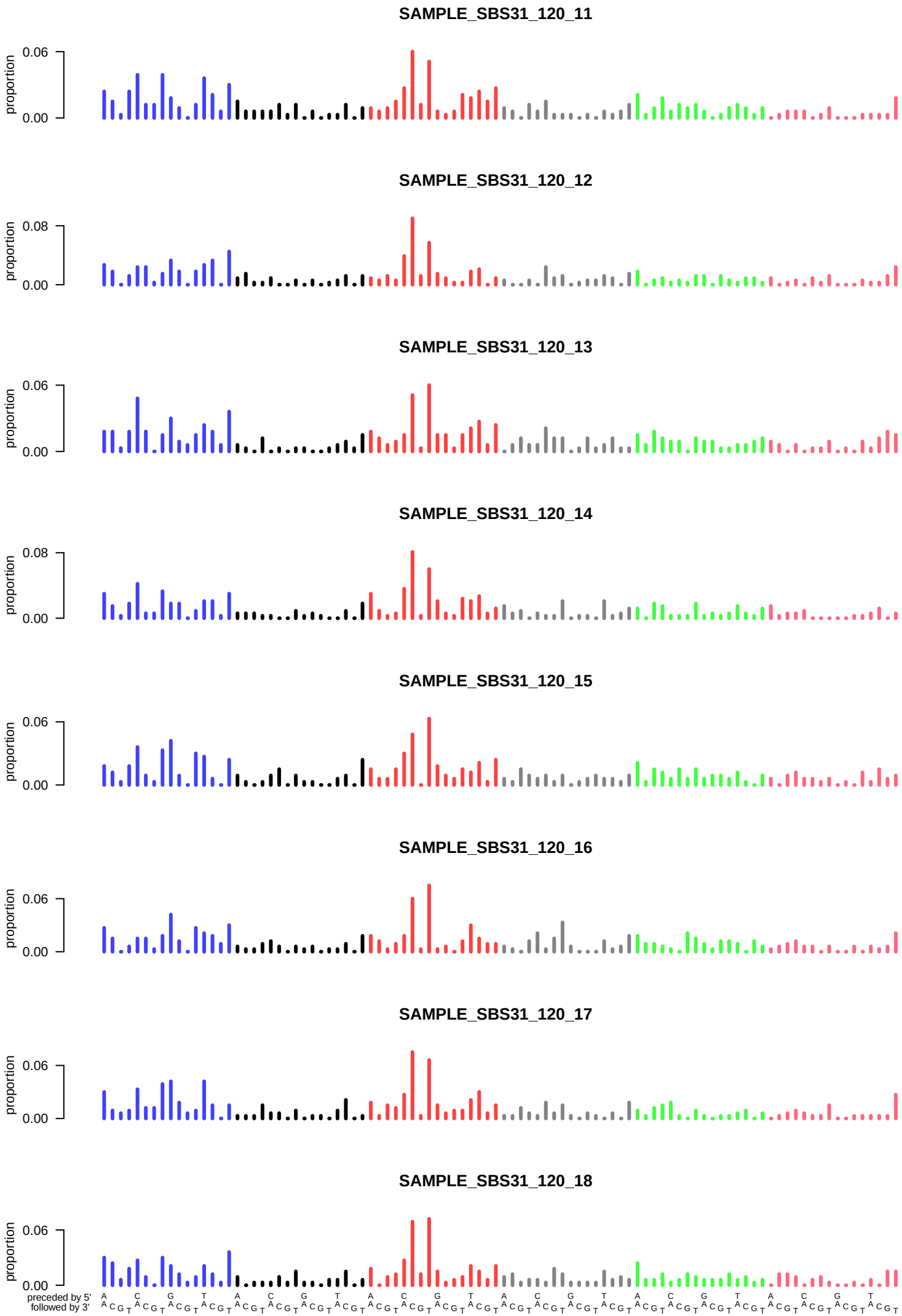
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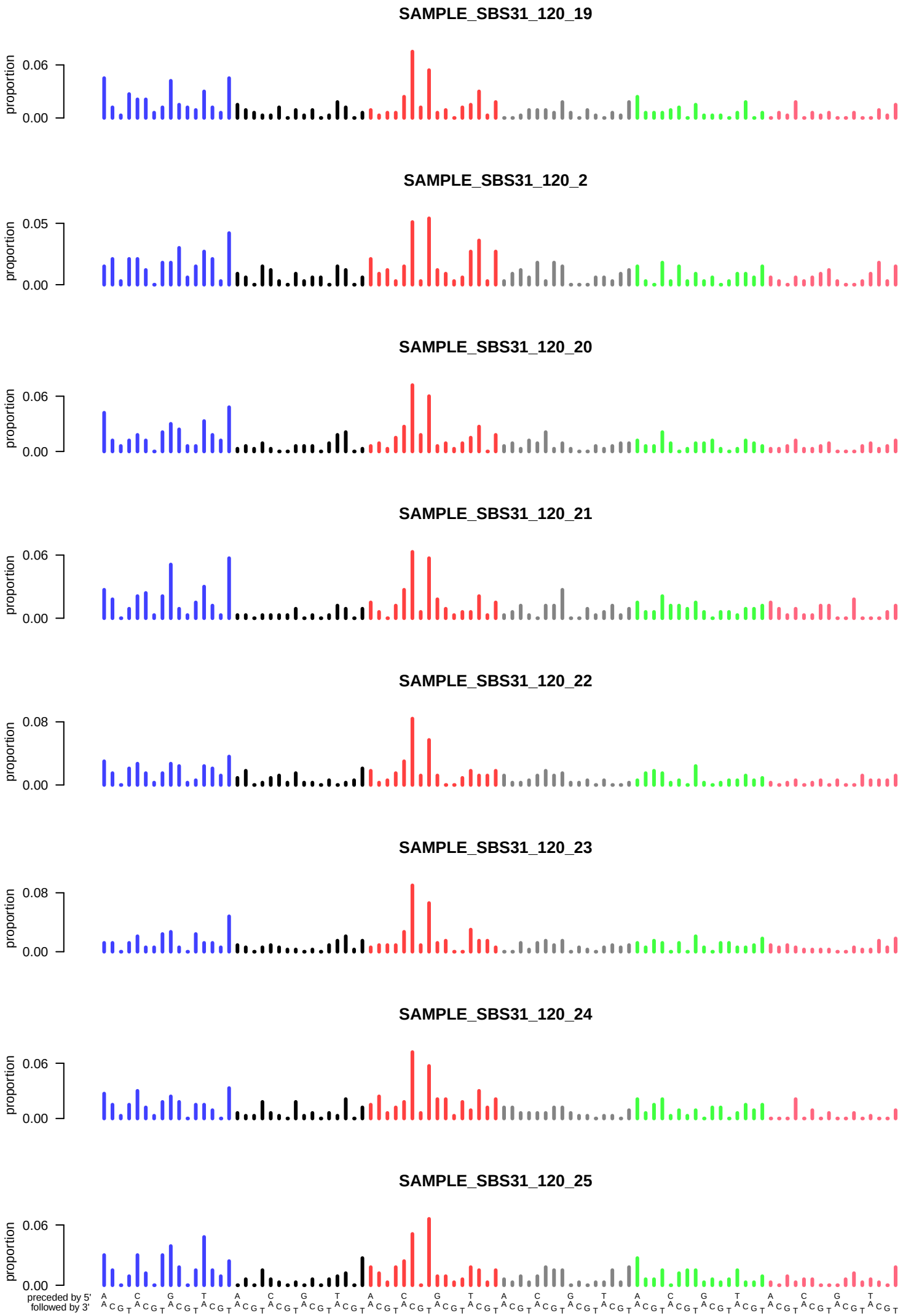
followed by 3'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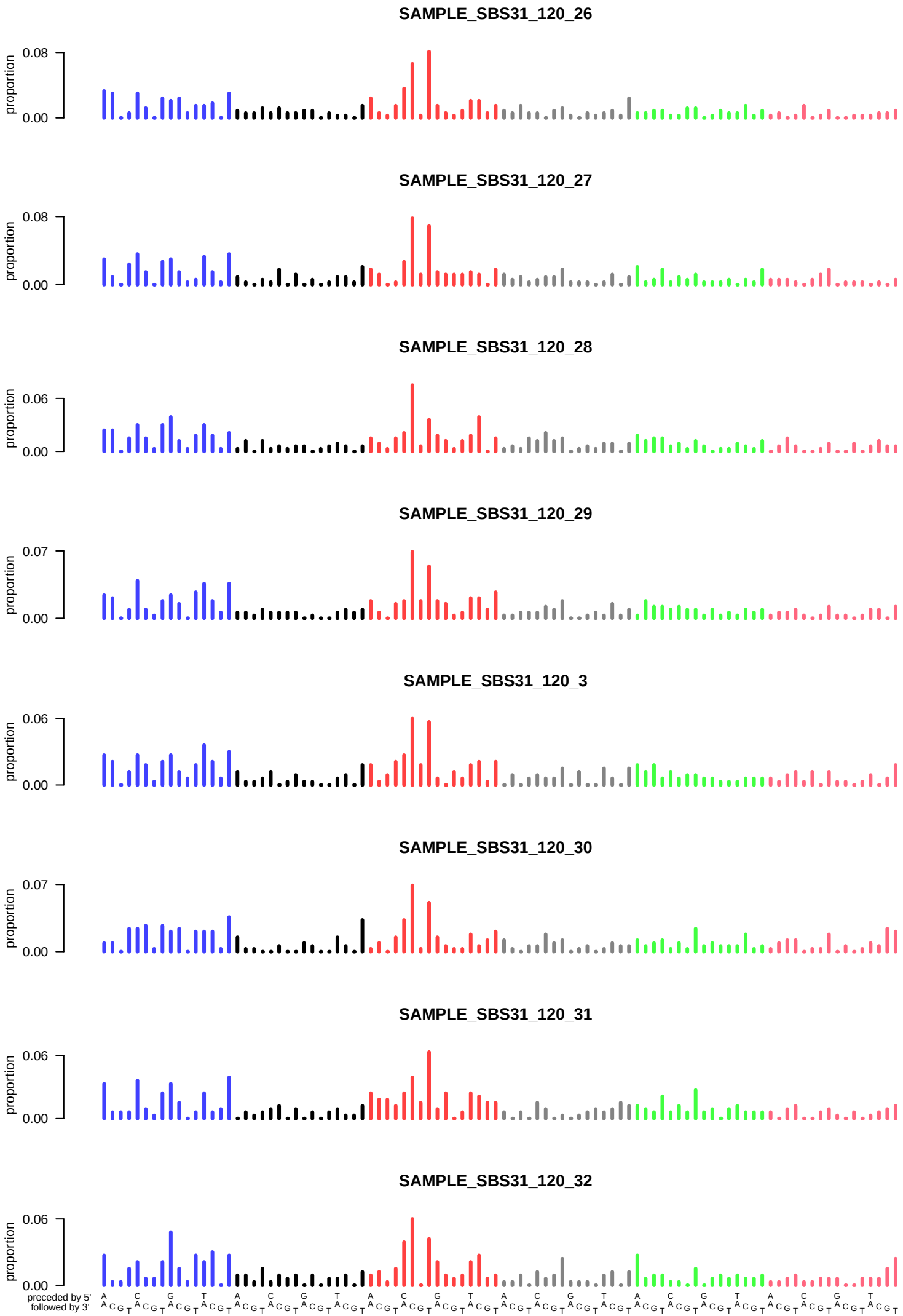
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SAMPLE_SBS31_120_31
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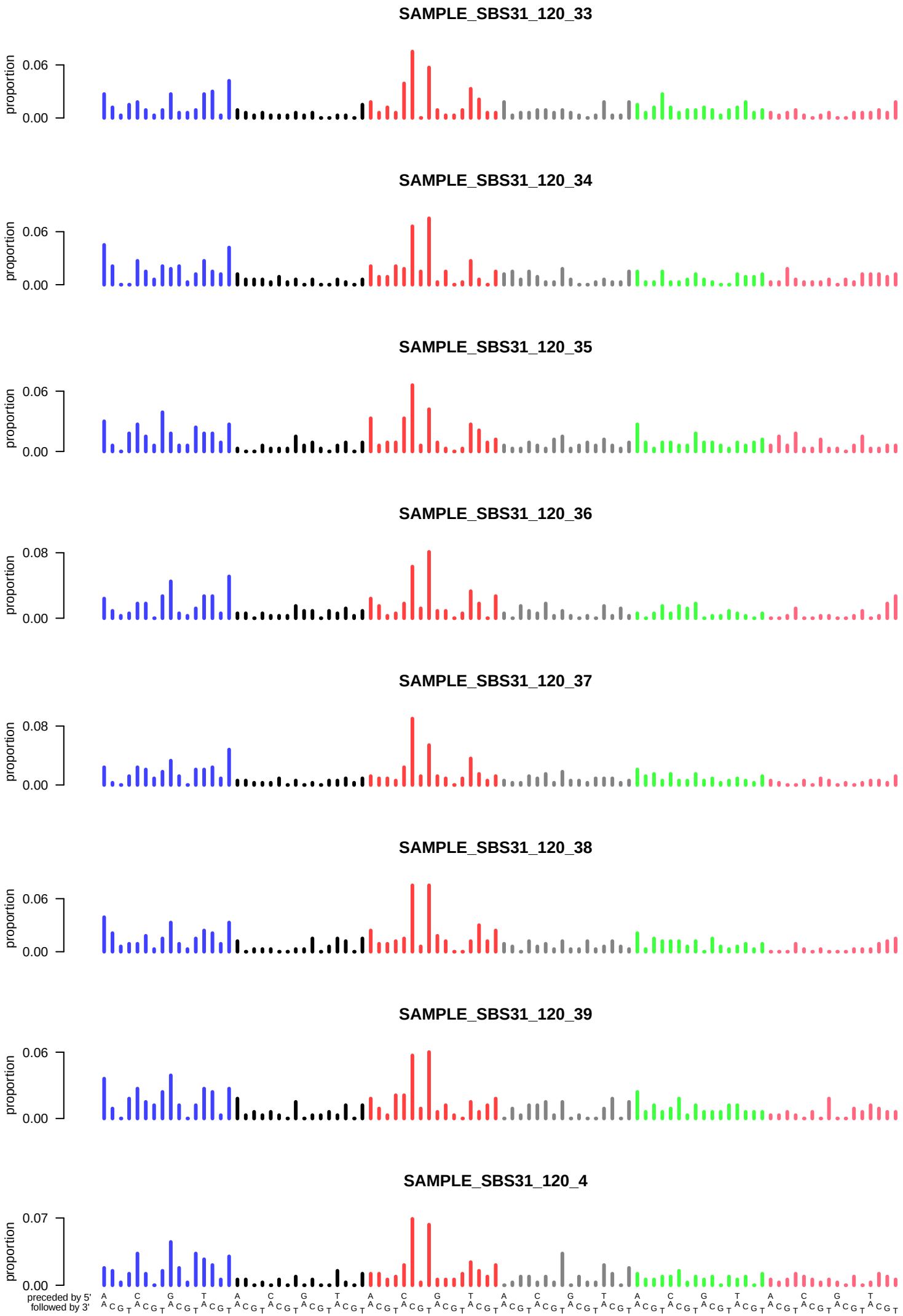
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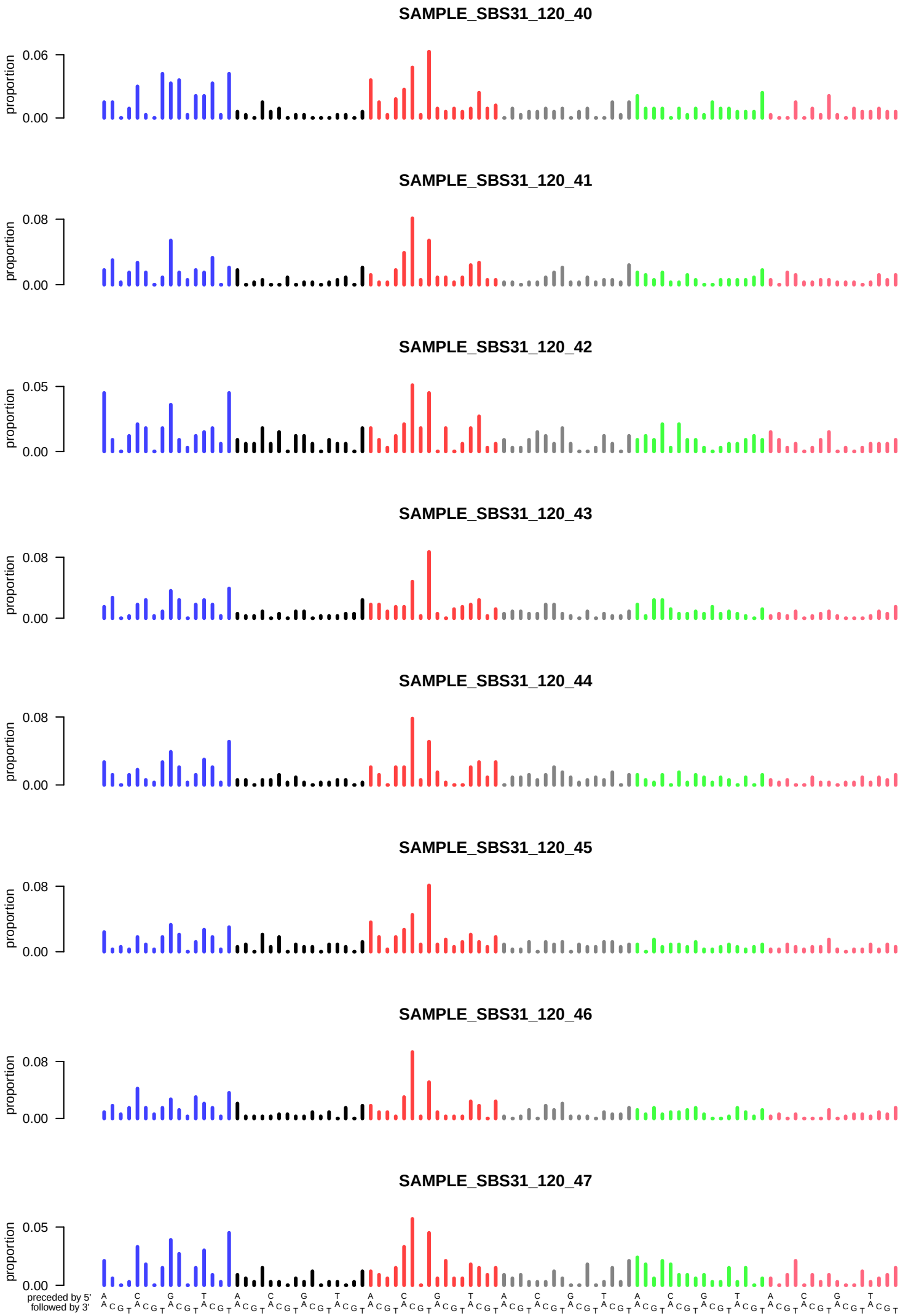
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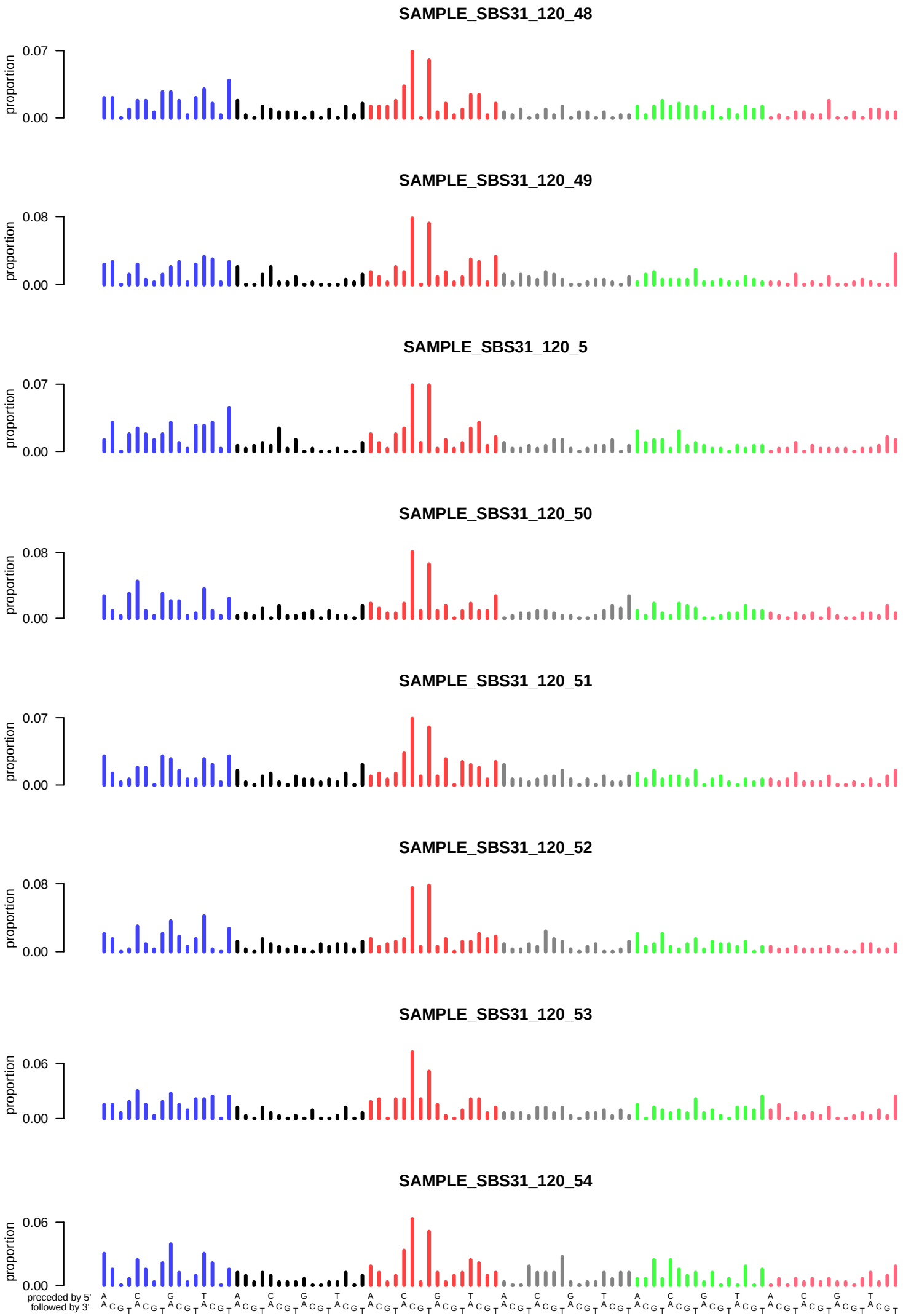
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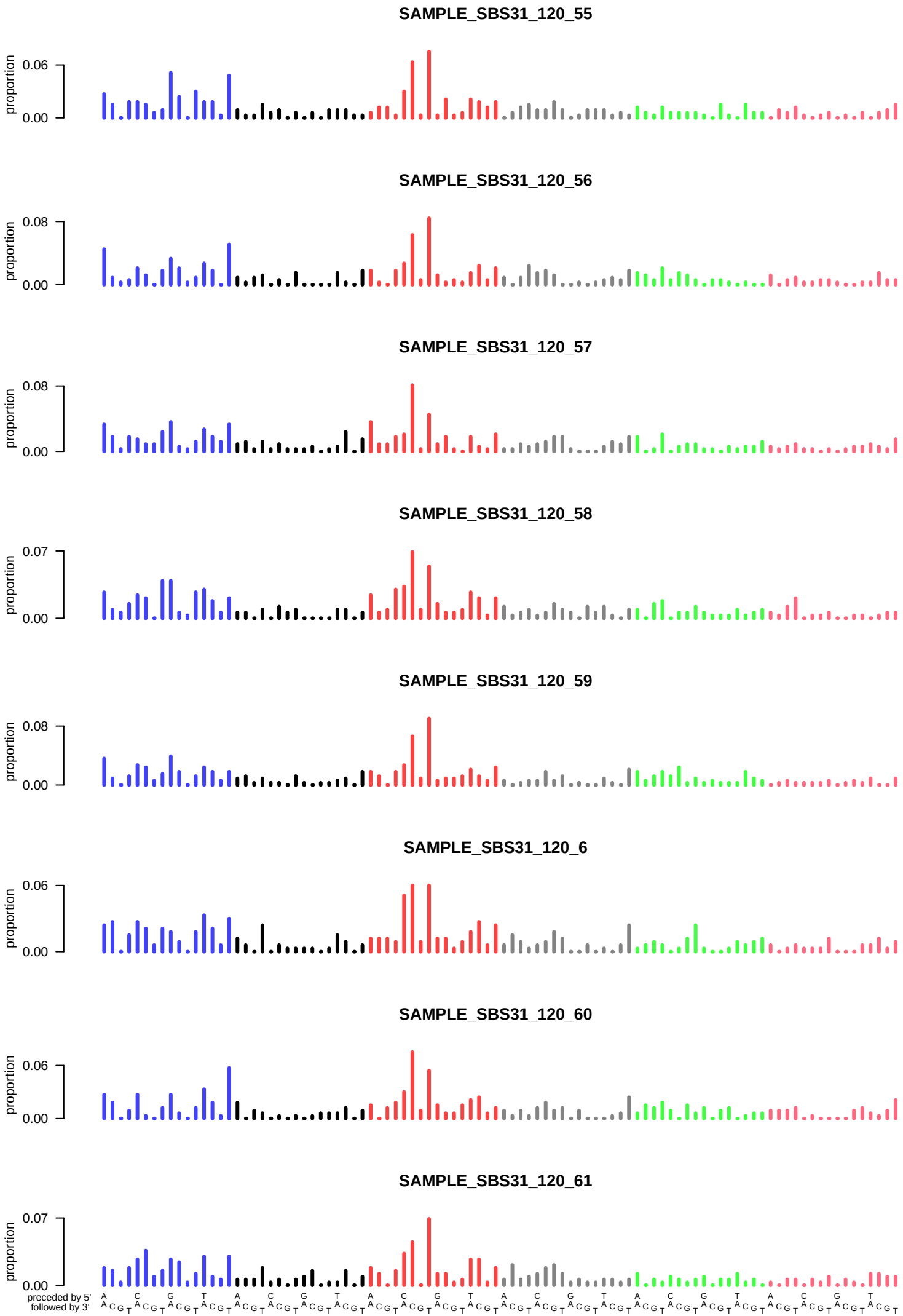
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SAMPLE_SBS31_120_60
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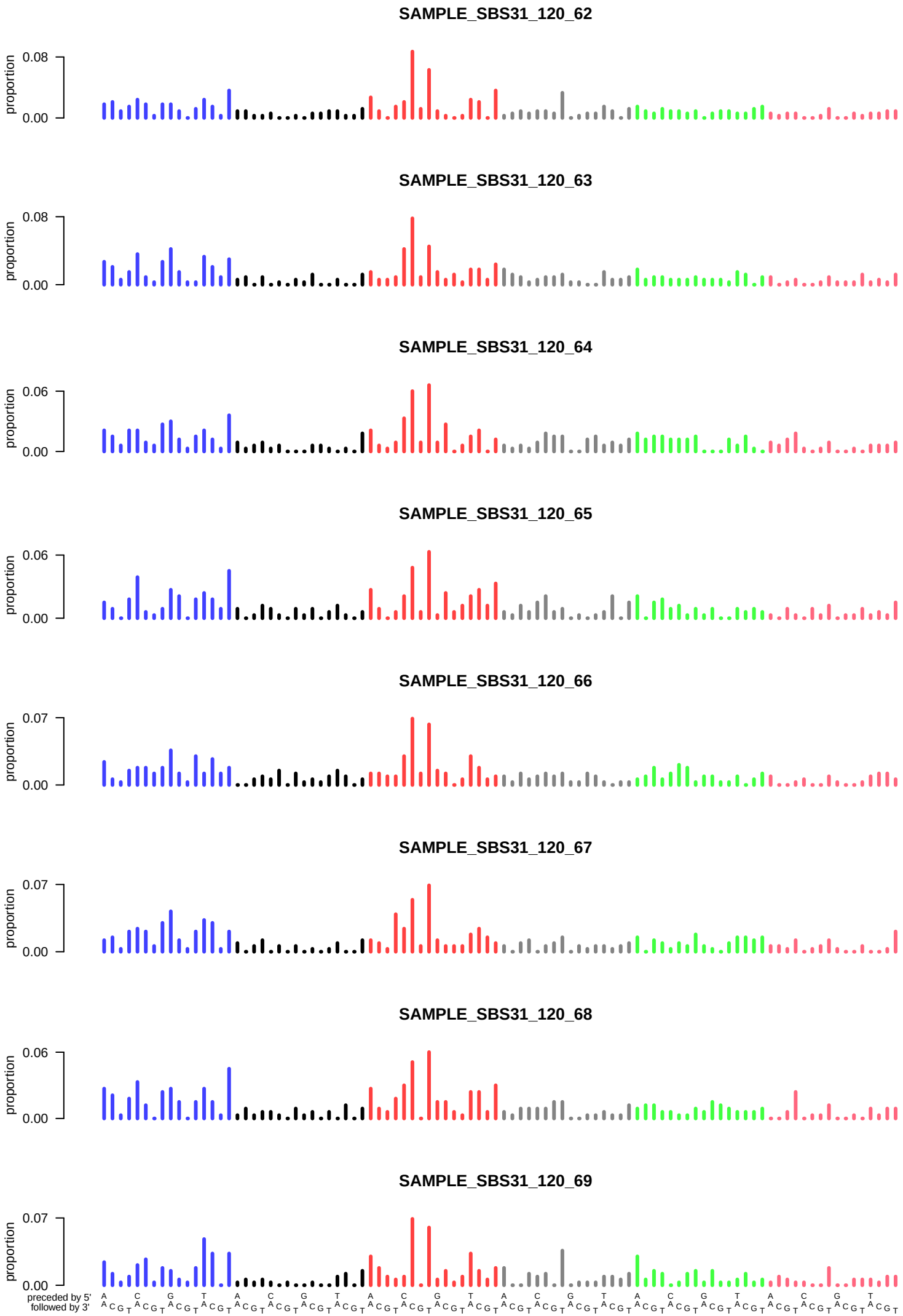
followed by 3'
A C G T A C G T A C G T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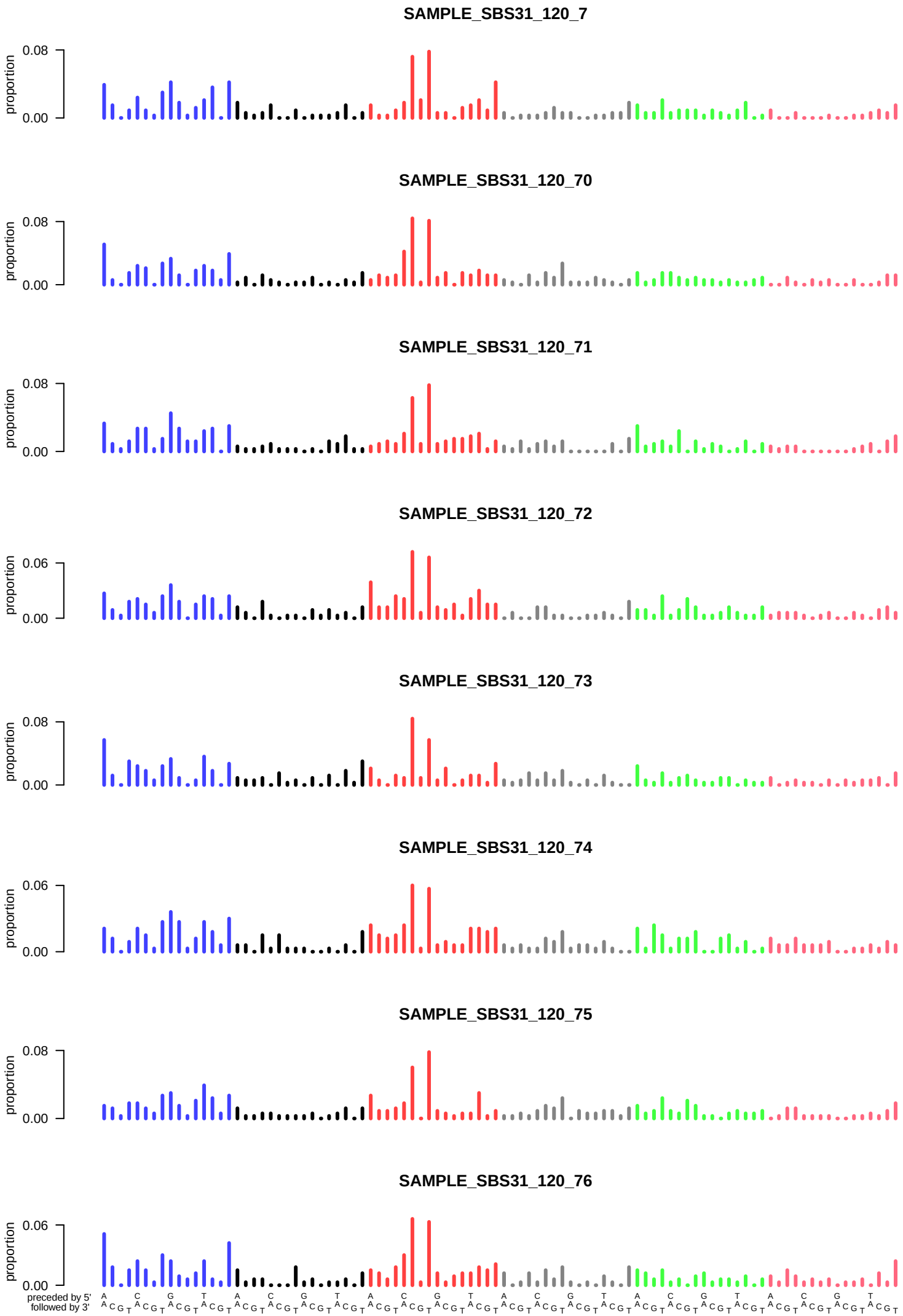
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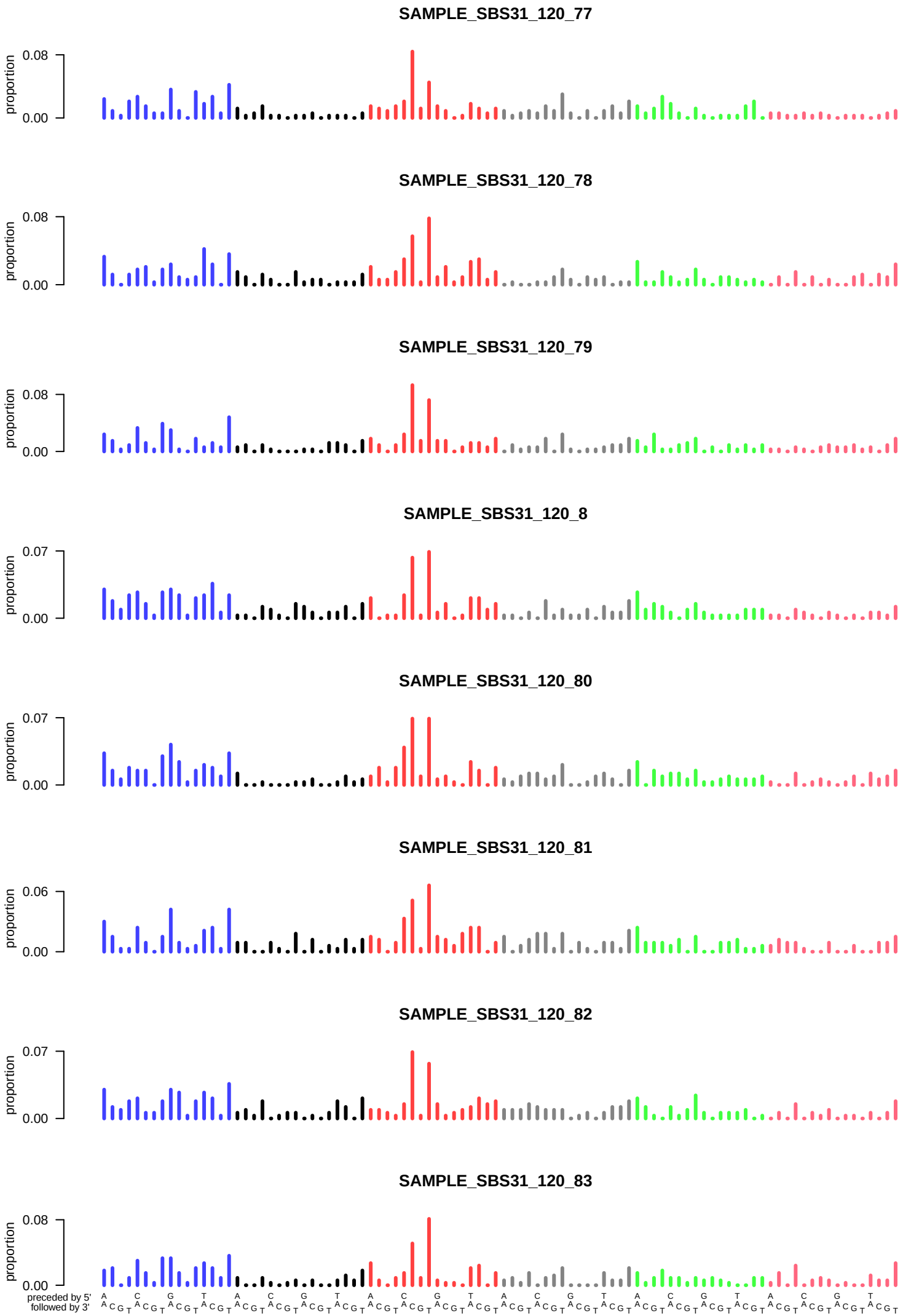
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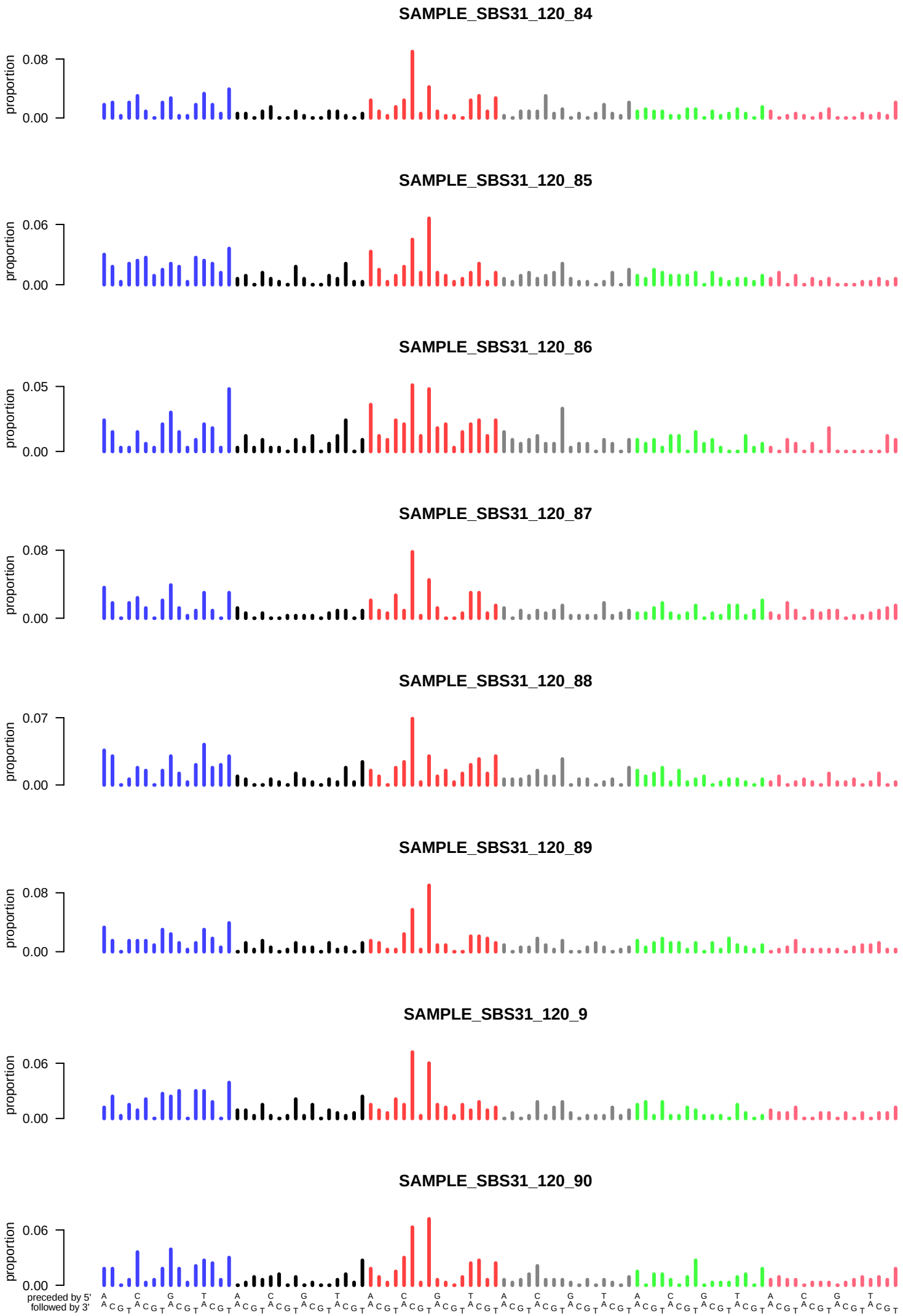
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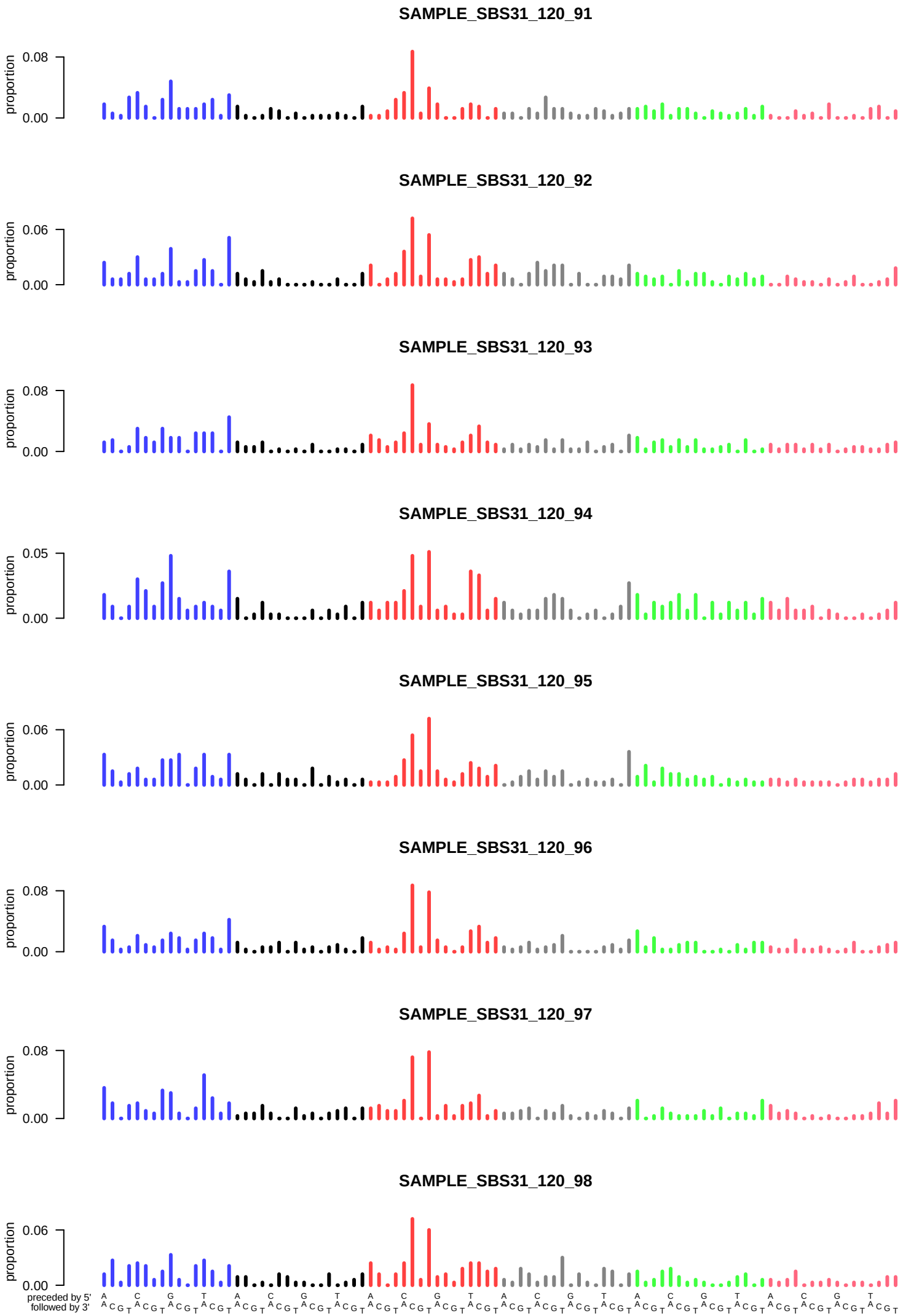
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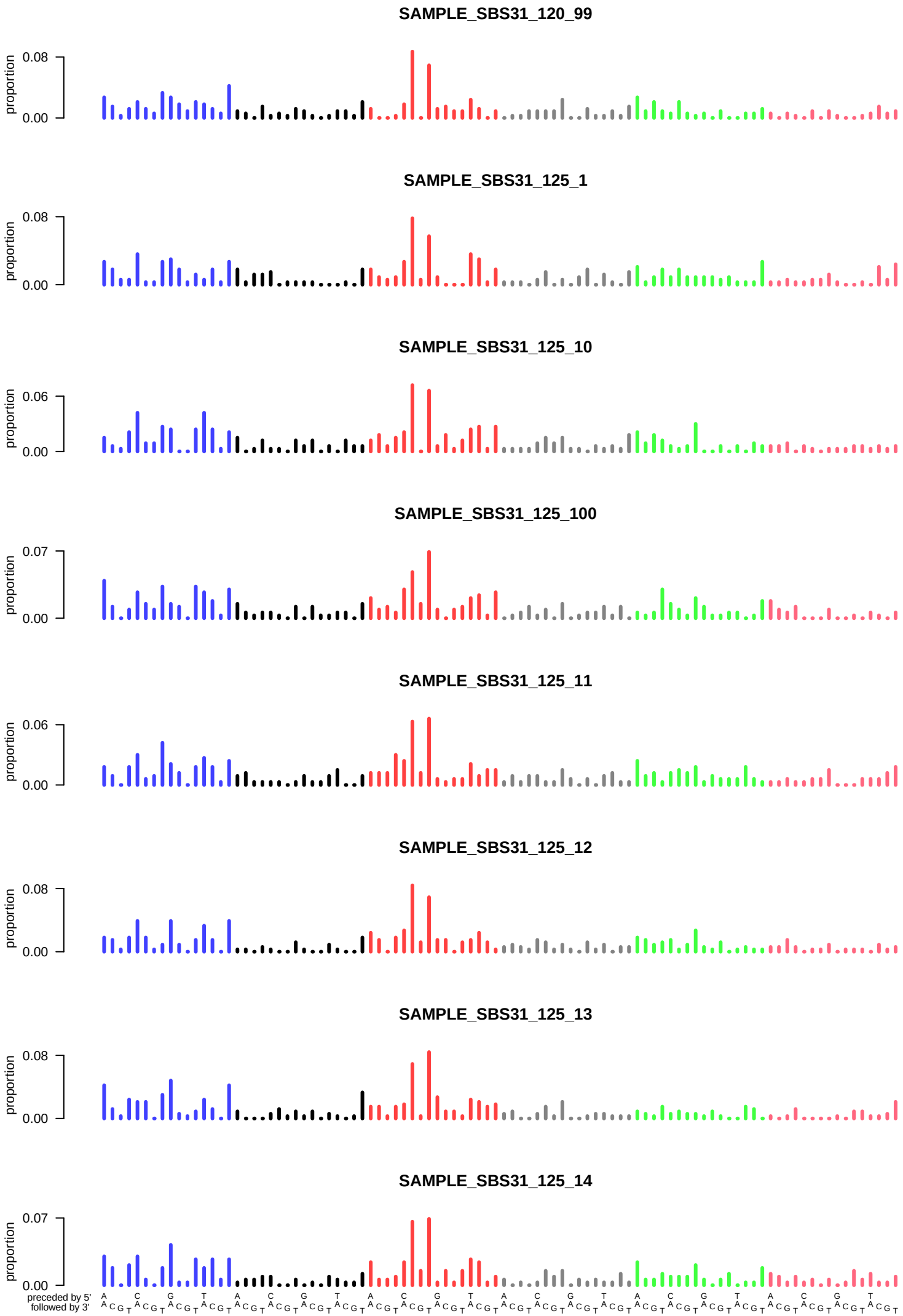
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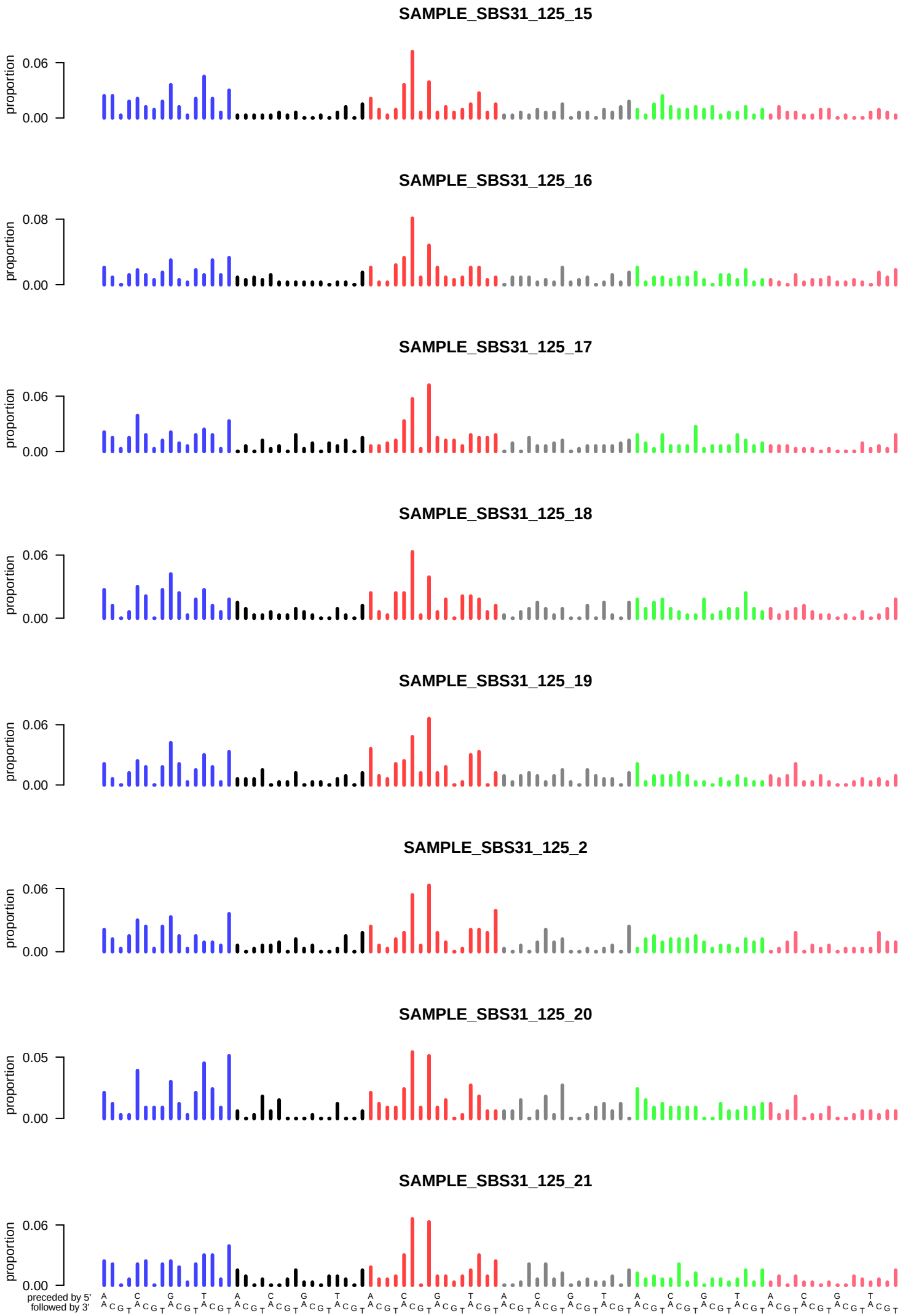
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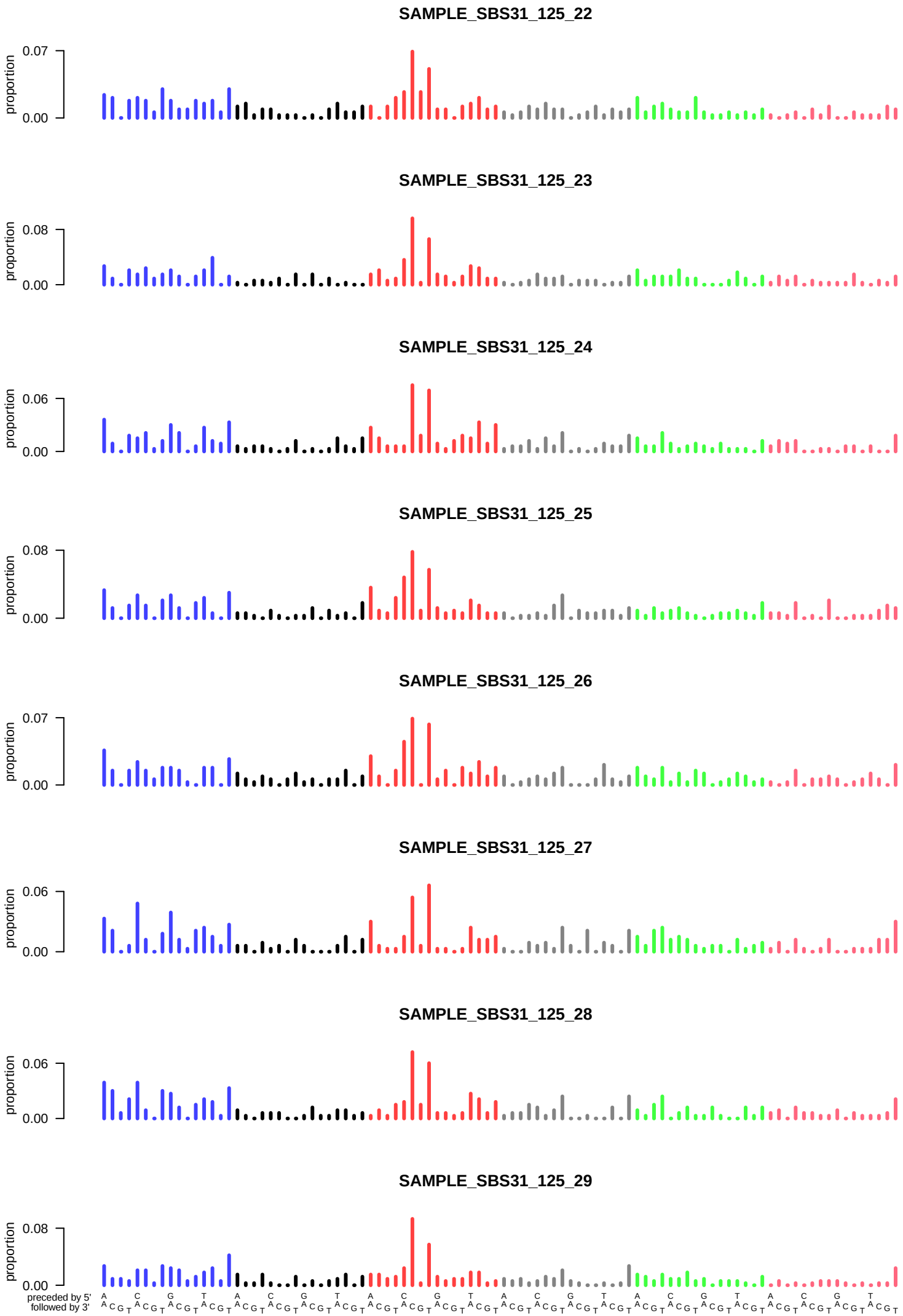
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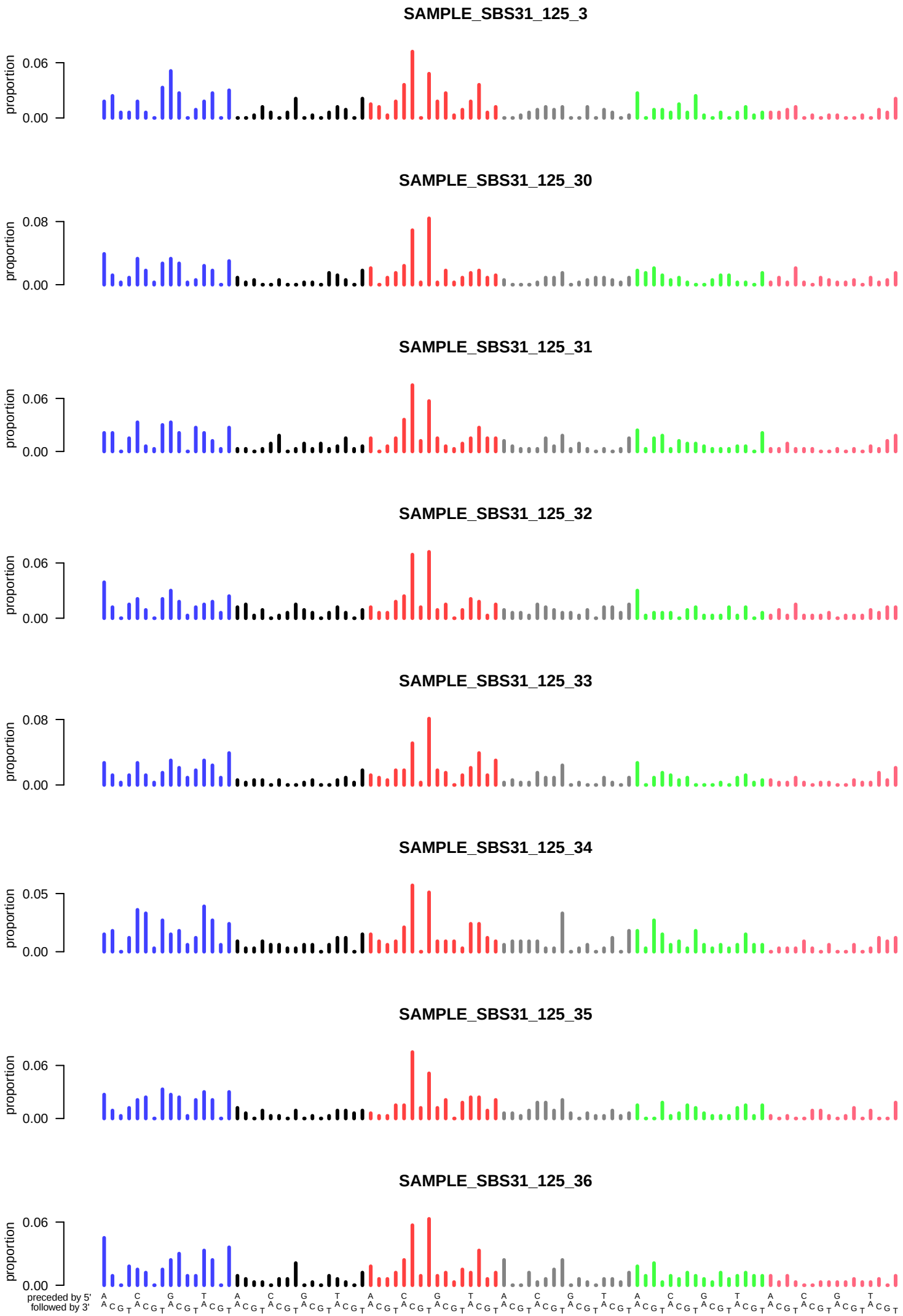
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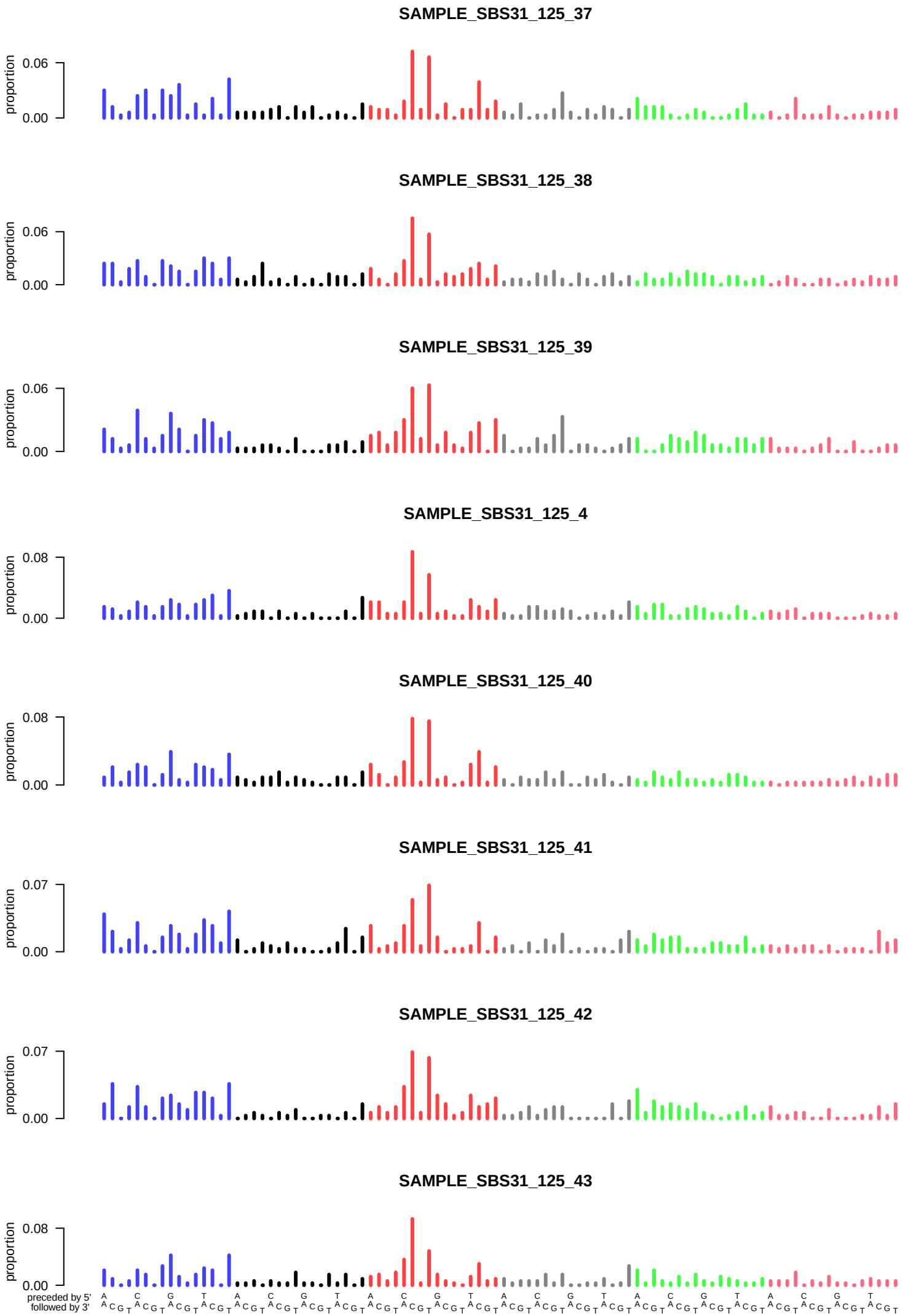
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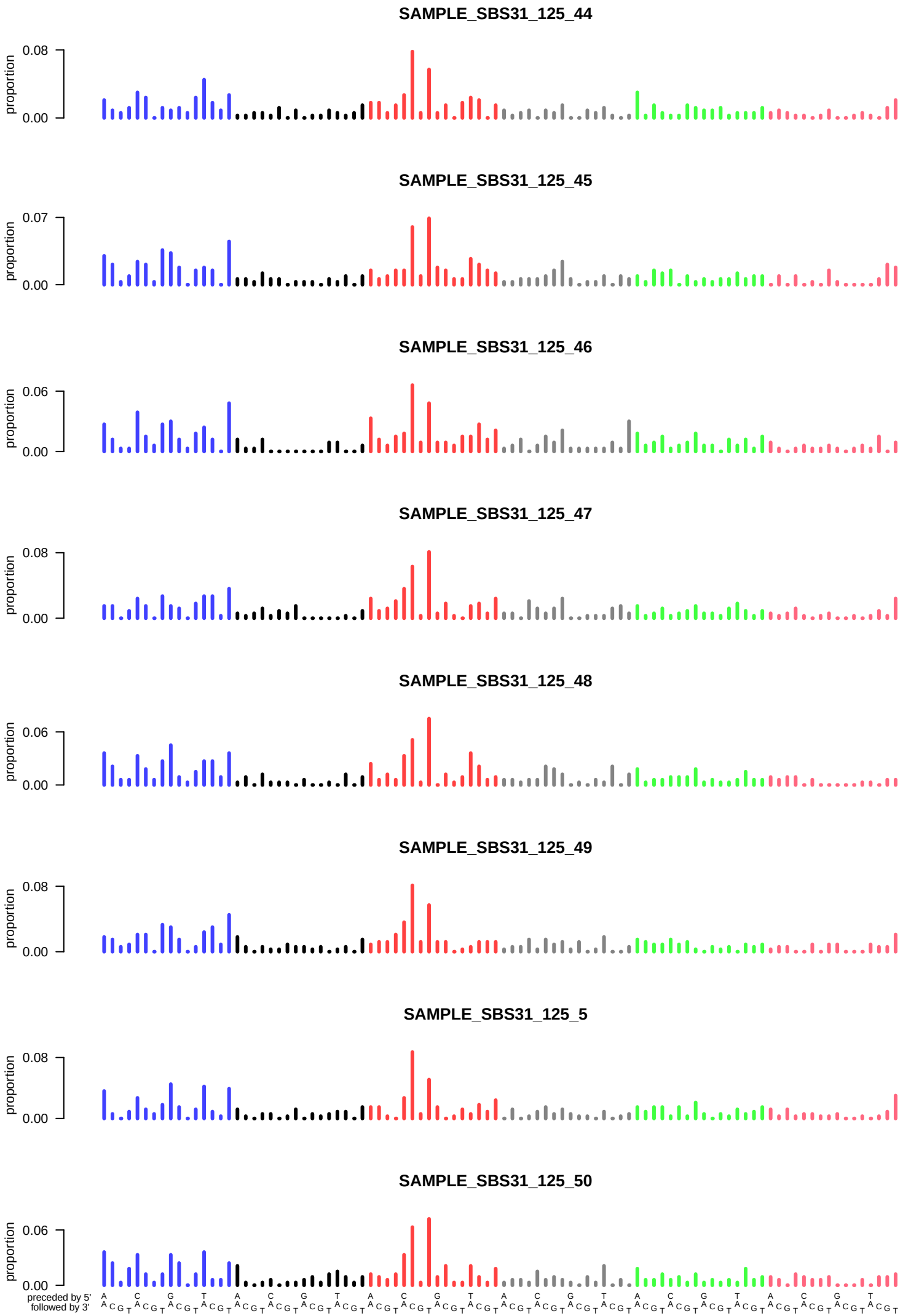
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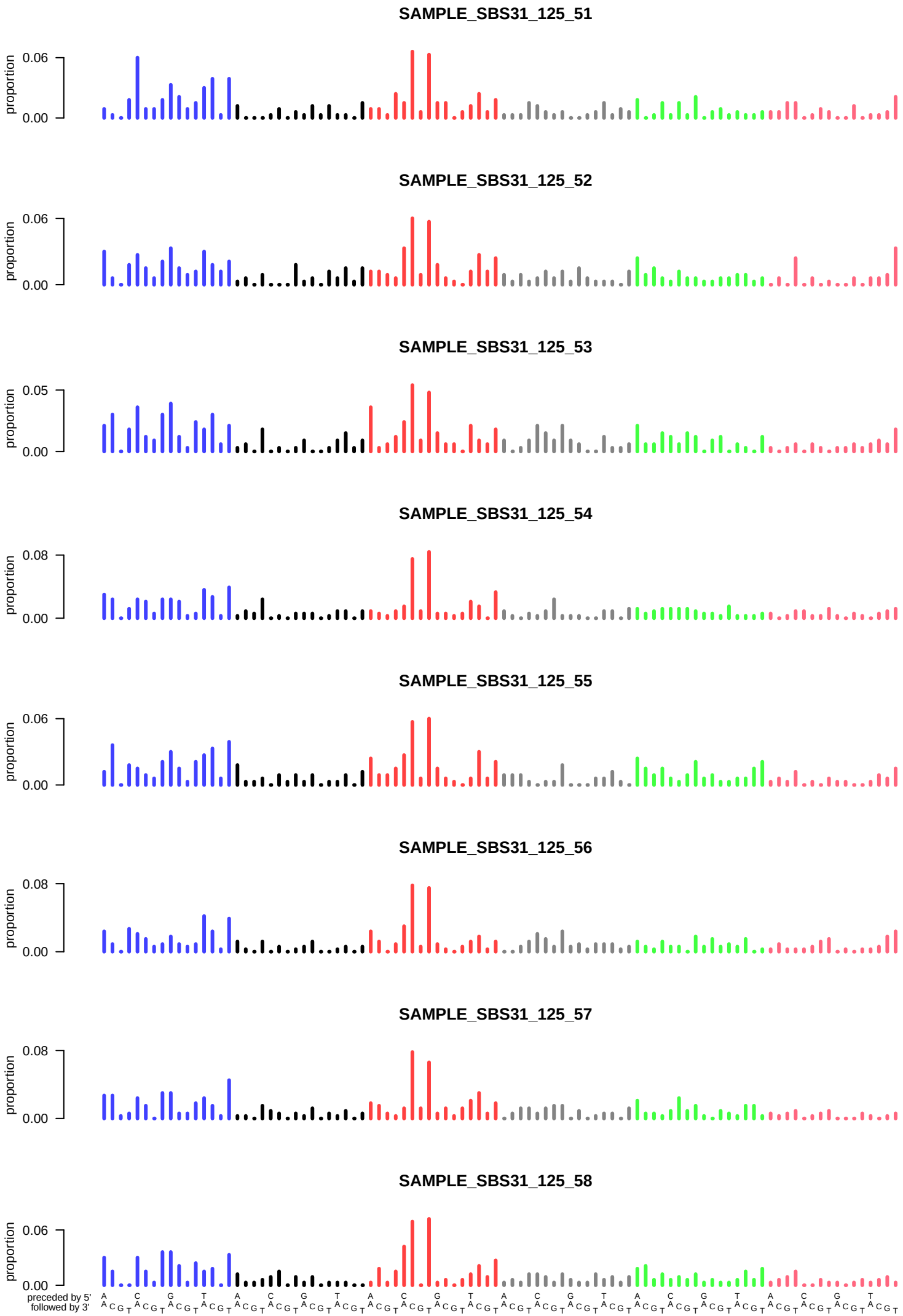
followed by 3'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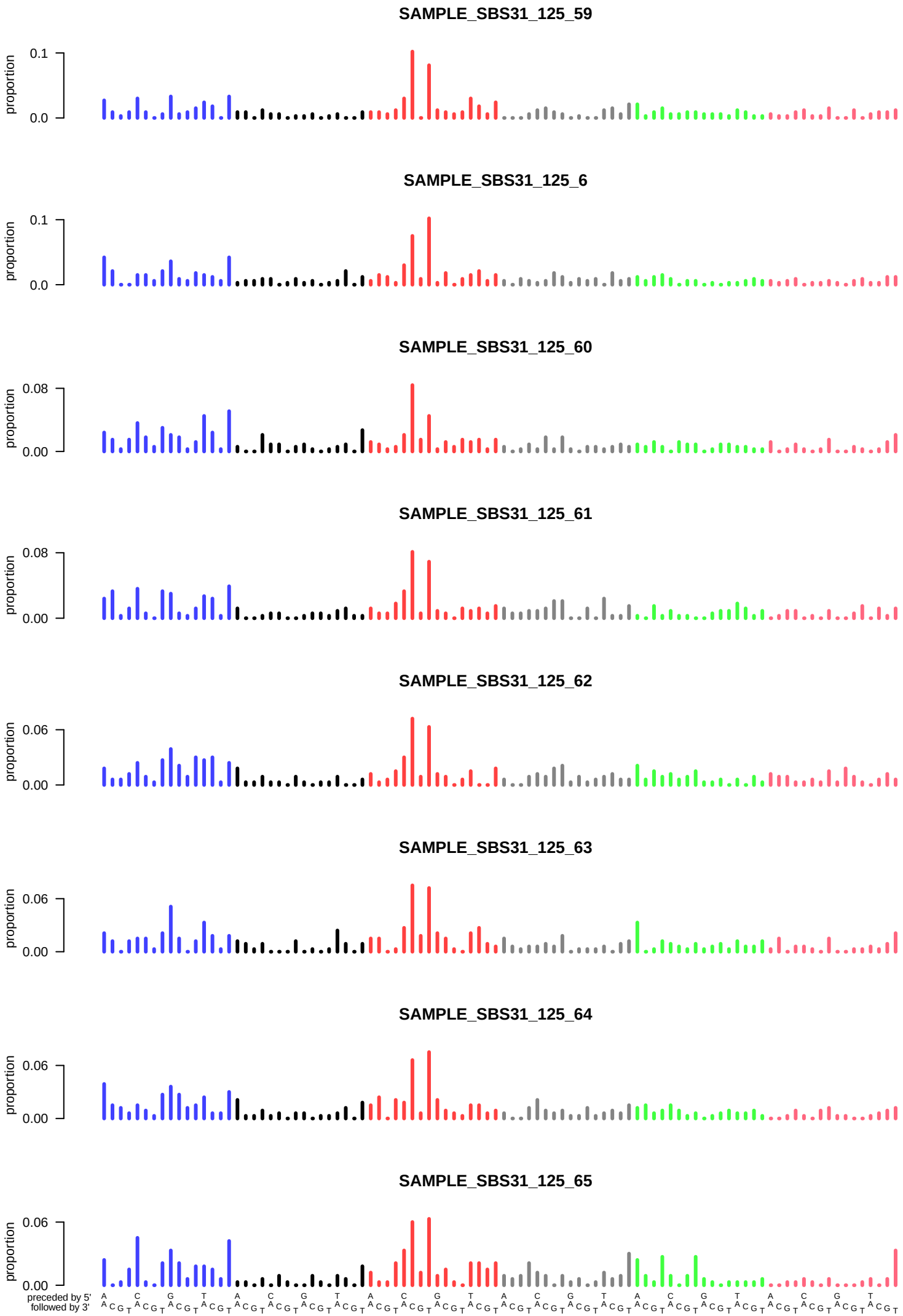
followed by 3'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followed by 3'
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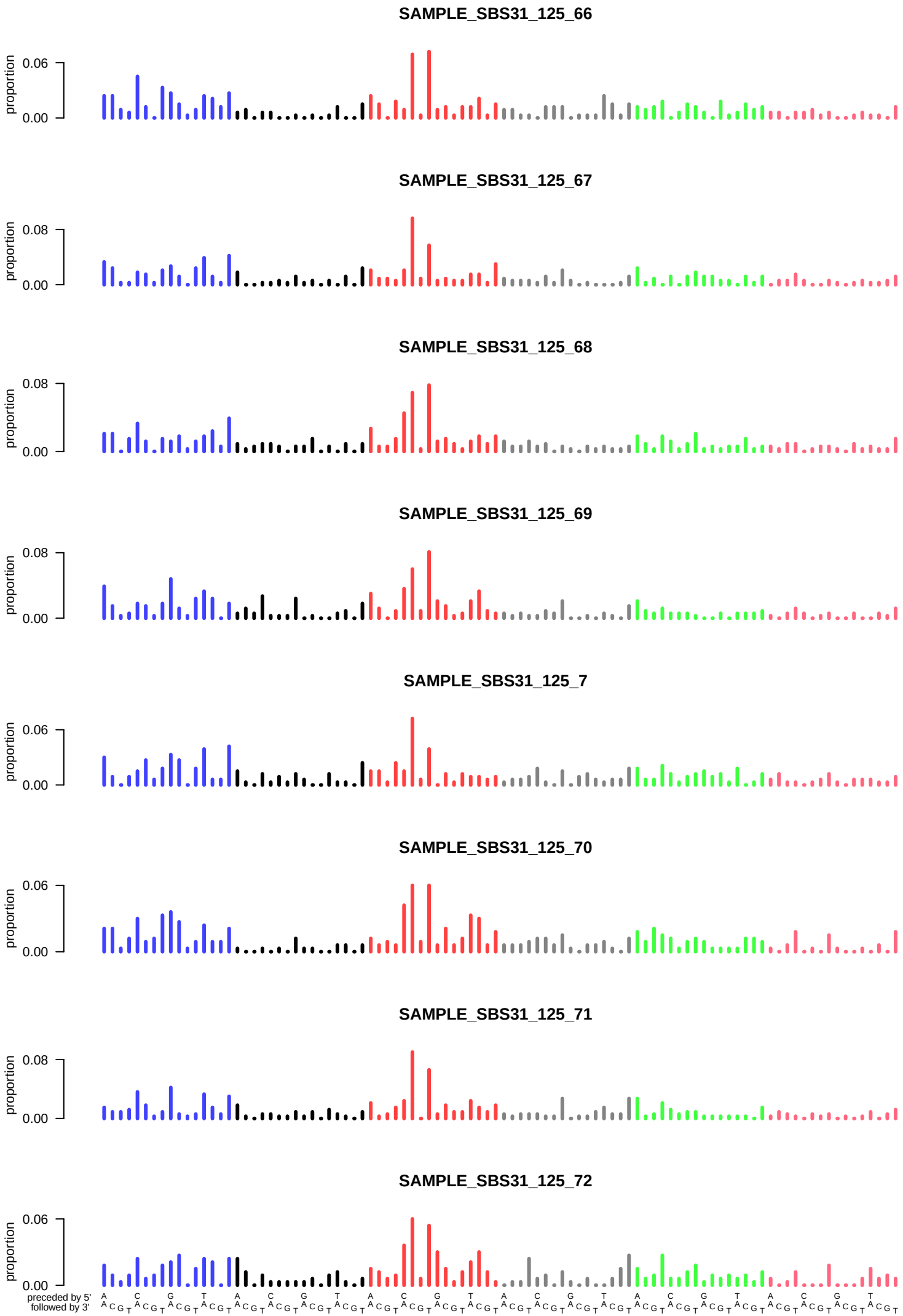
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SAMPLE_SBS31_125_71
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followed by 3'
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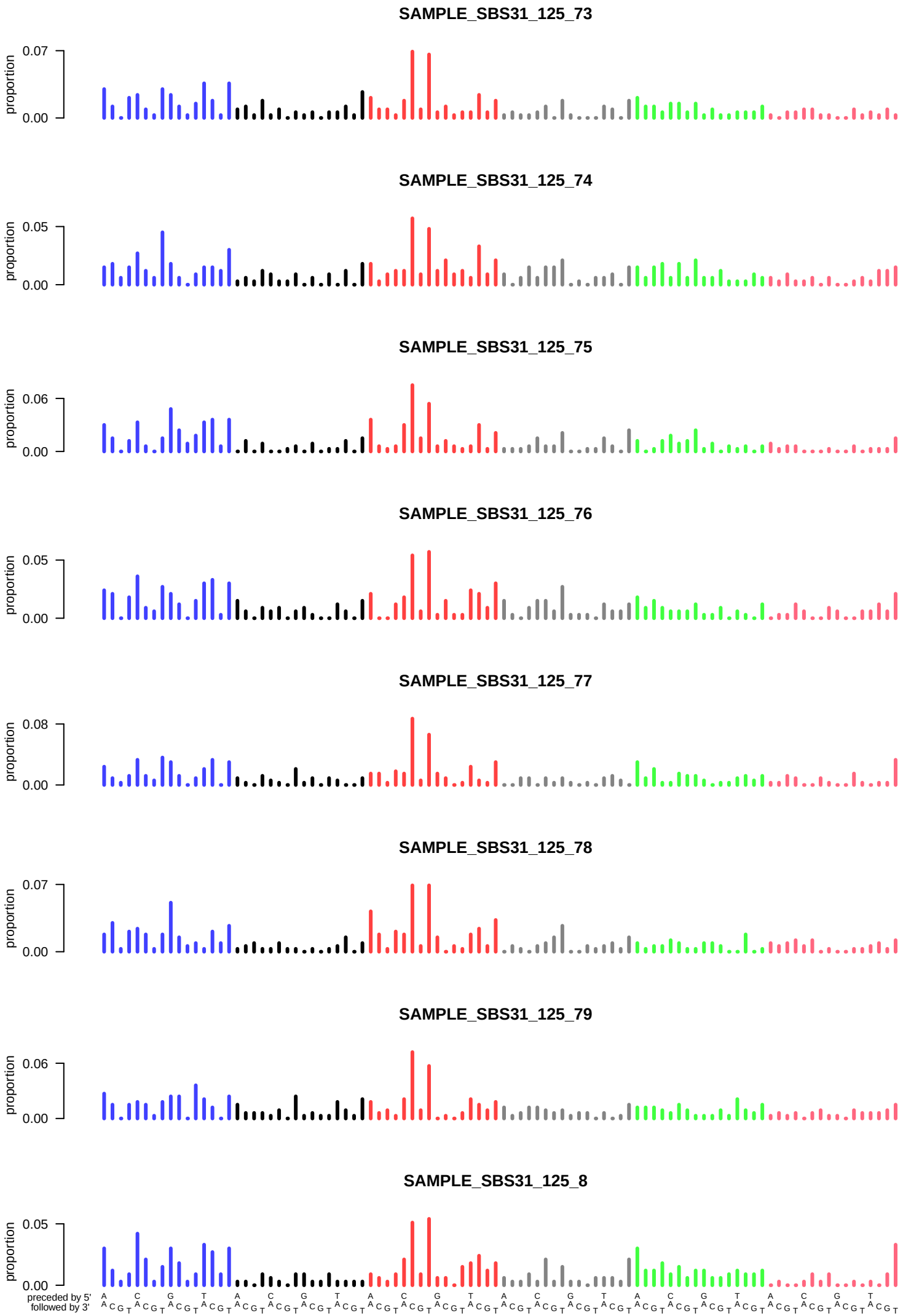
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SAMPLE_SBS31_125_79
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followed by 3'
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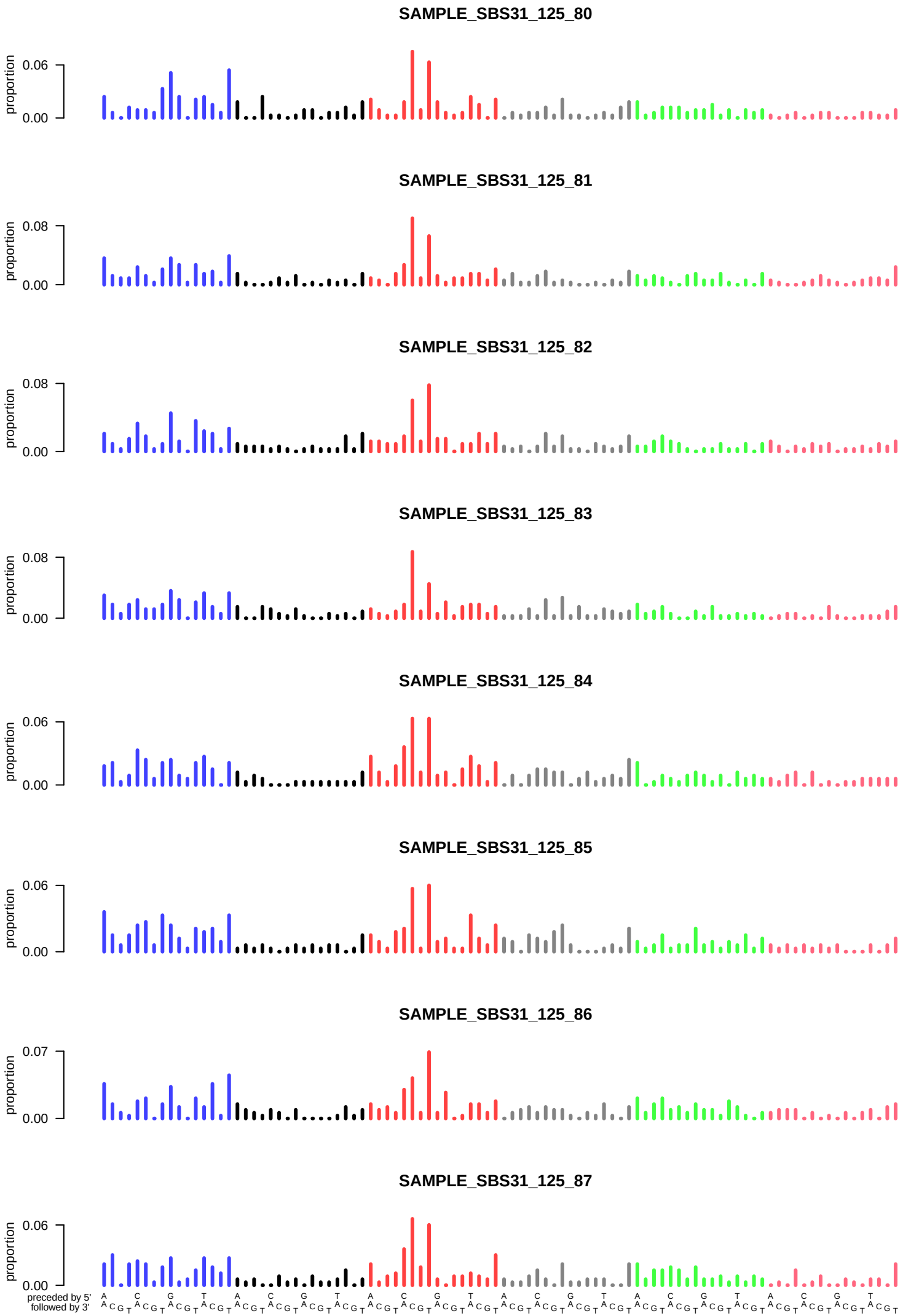
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SAMPLE_SBS31_125_86
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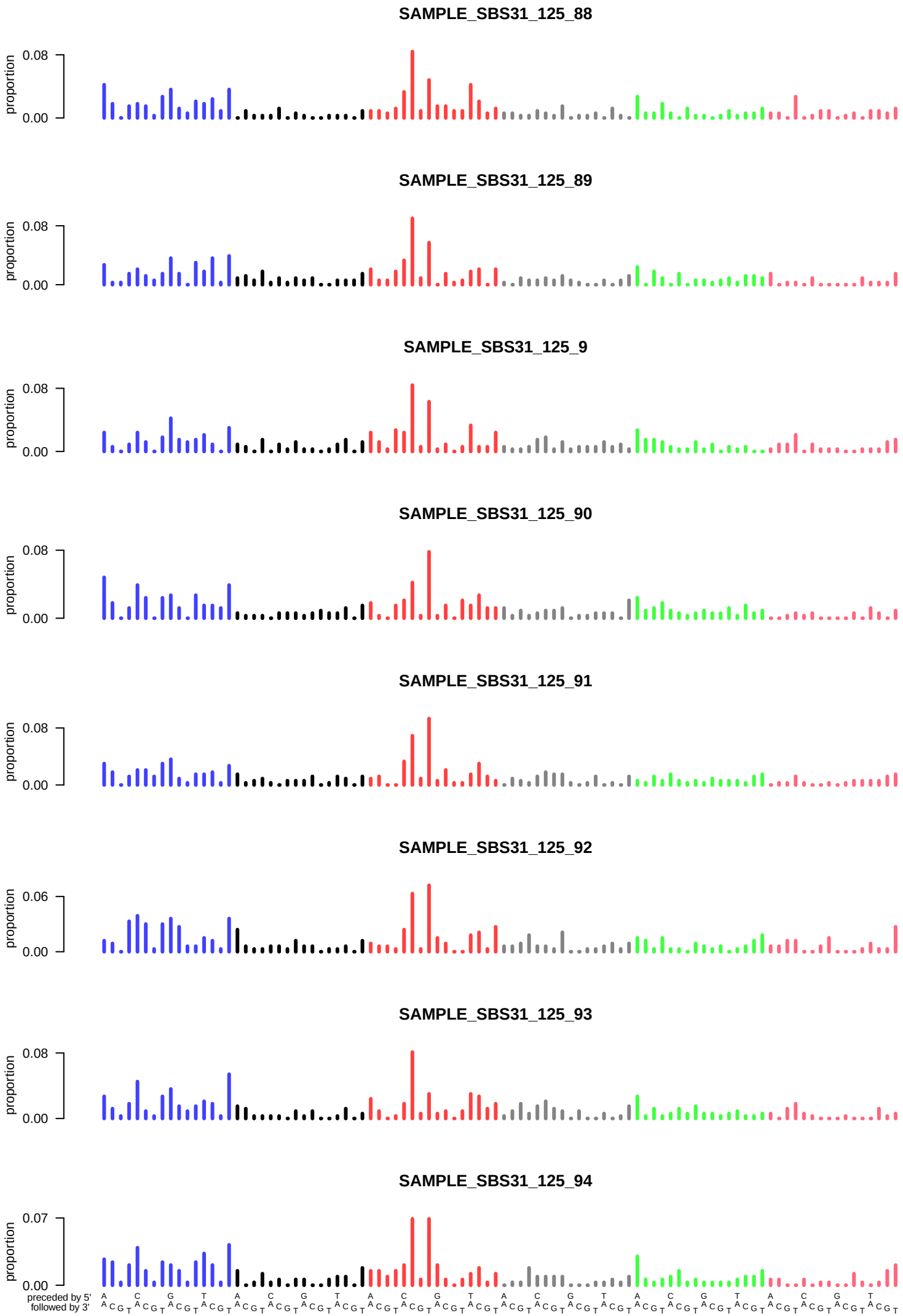
followed by 3'
A C G T A C G T A C G T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SAMPLE_SBS31_125_92
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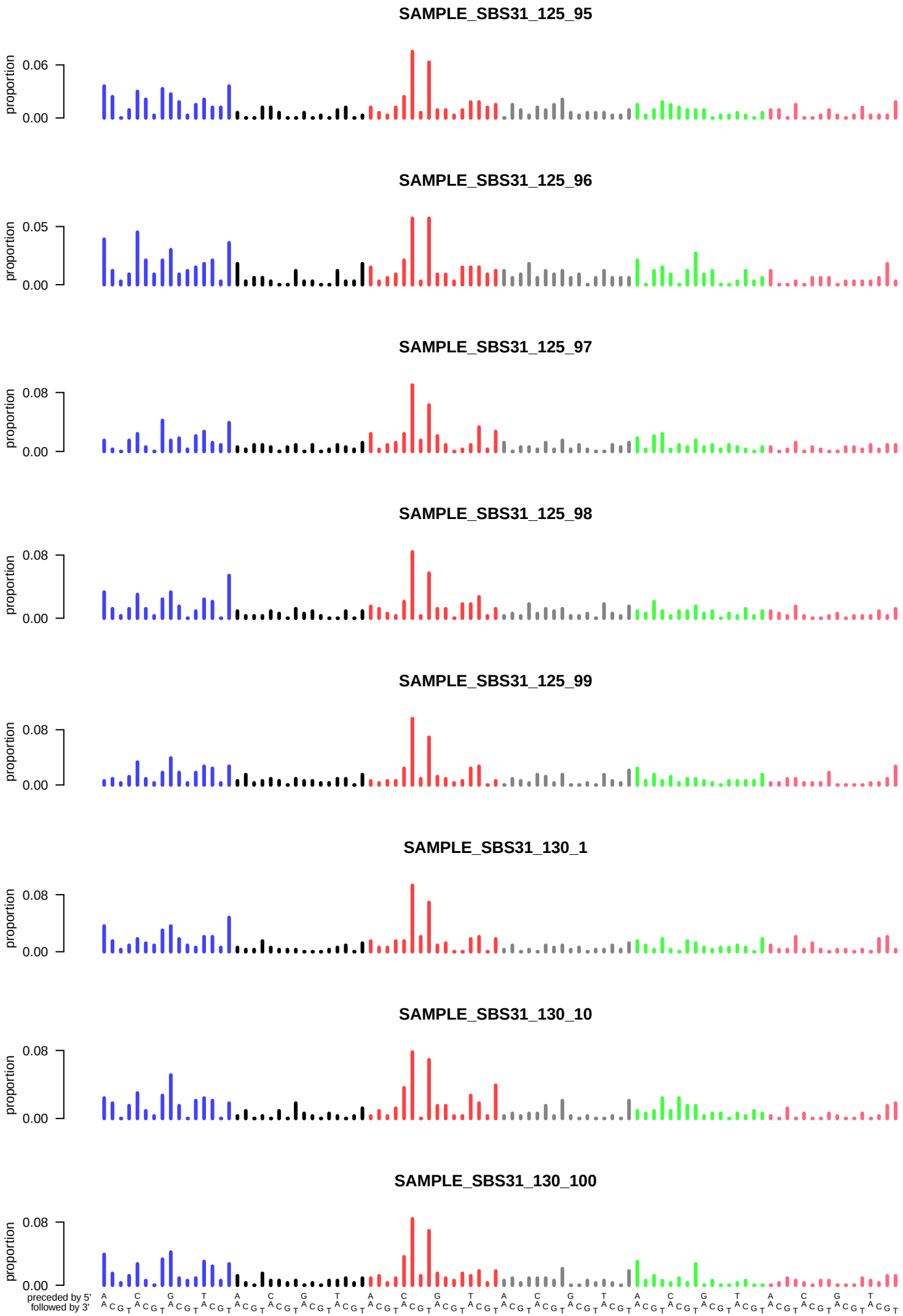
followed by 3'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SAMPLE_SBS31_130_10
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preceded by 5'
followed by 3'
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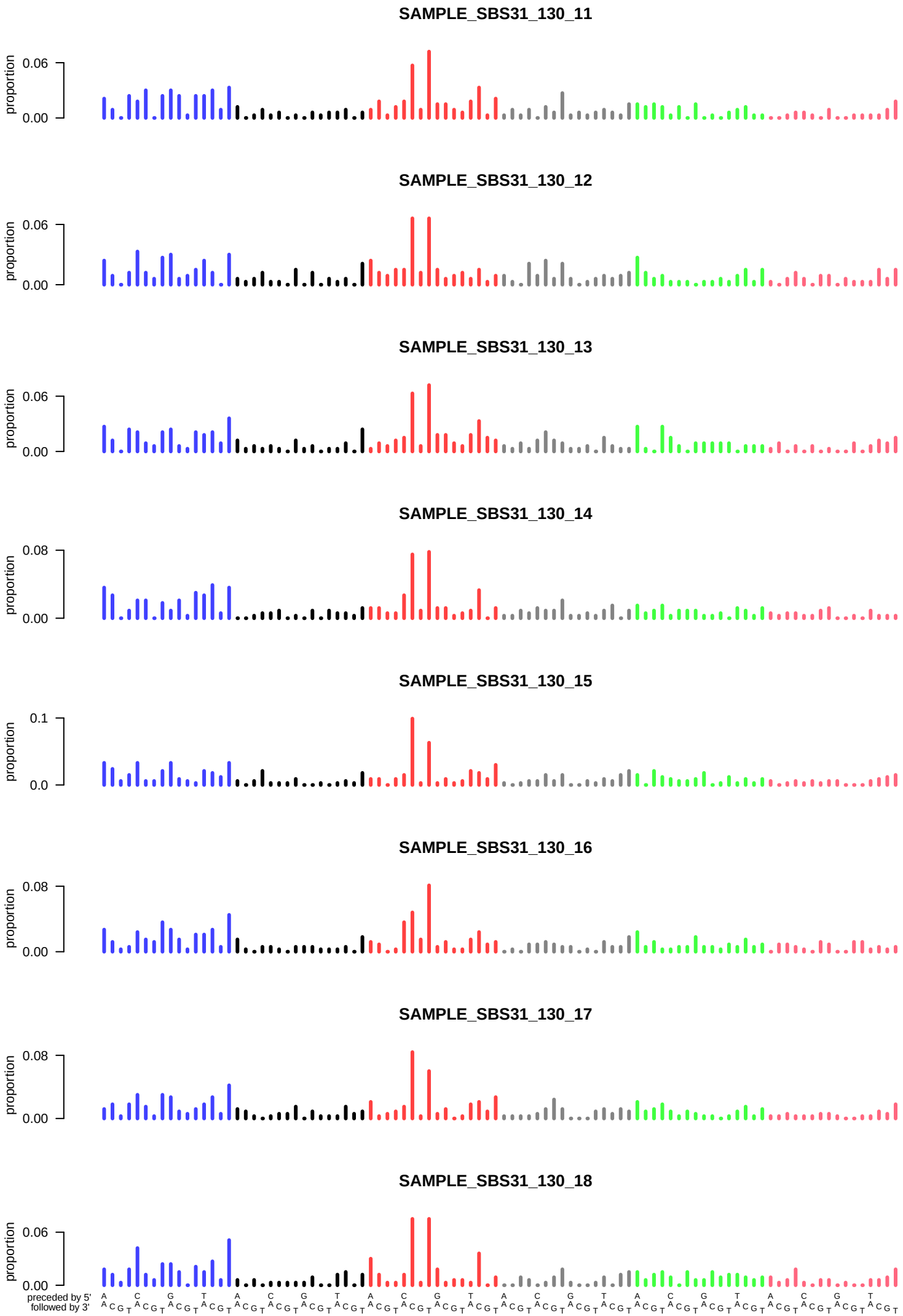
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SAMPLE_SBS31_130_14
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SAMPLE_SBS31_130_15
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followed by 3'
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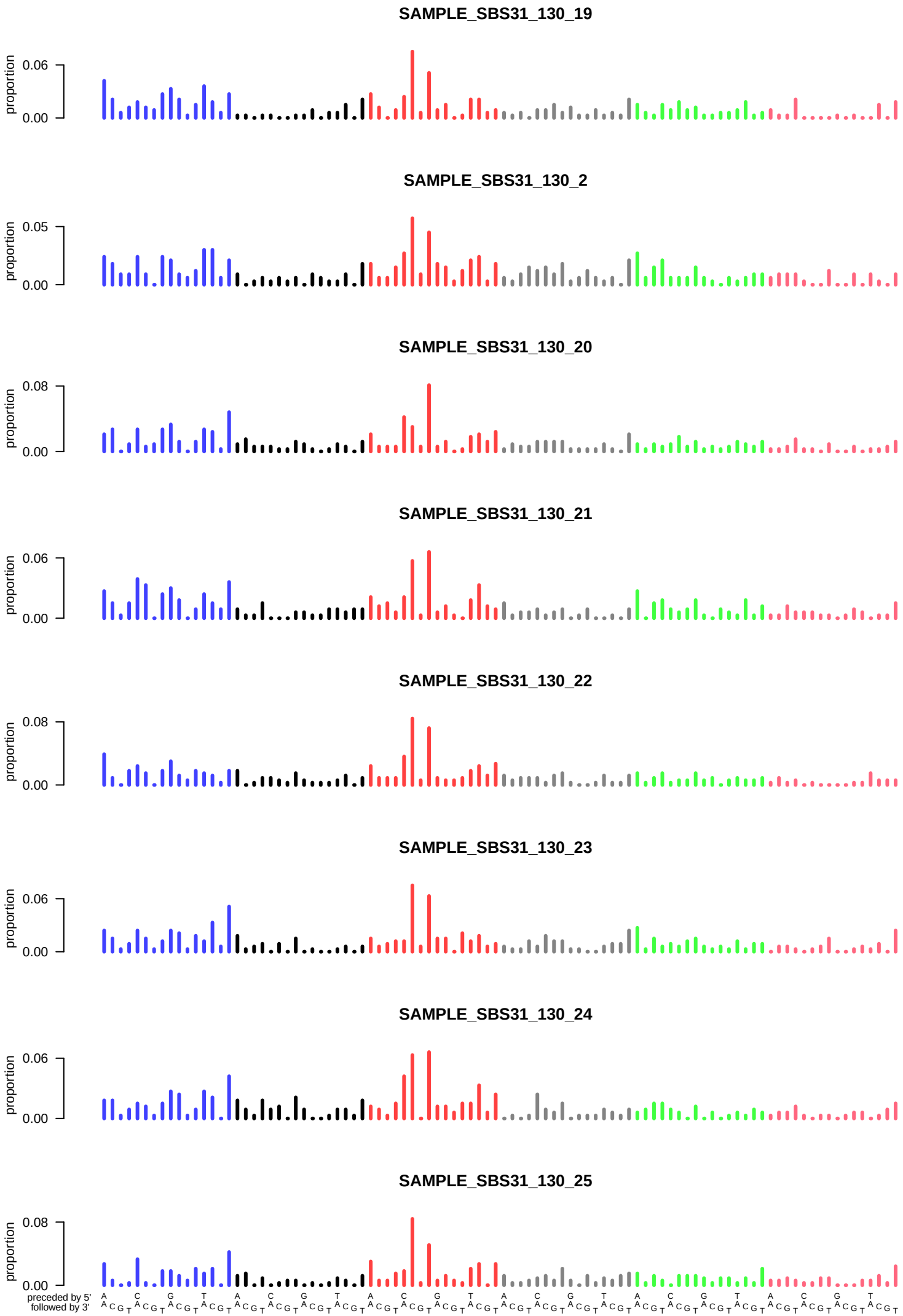
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SAMPLE_SBS31_130_24
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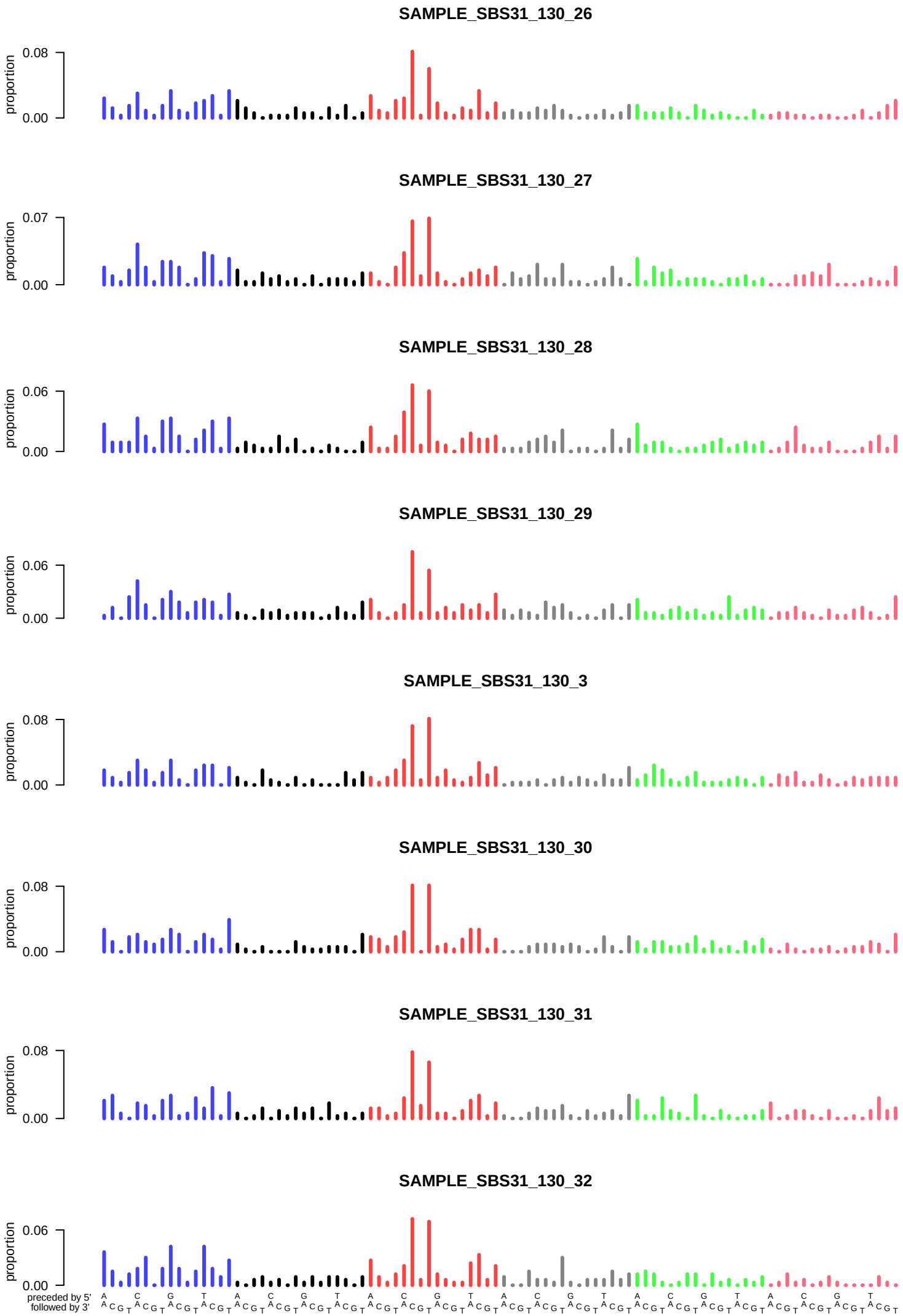
followed by 3'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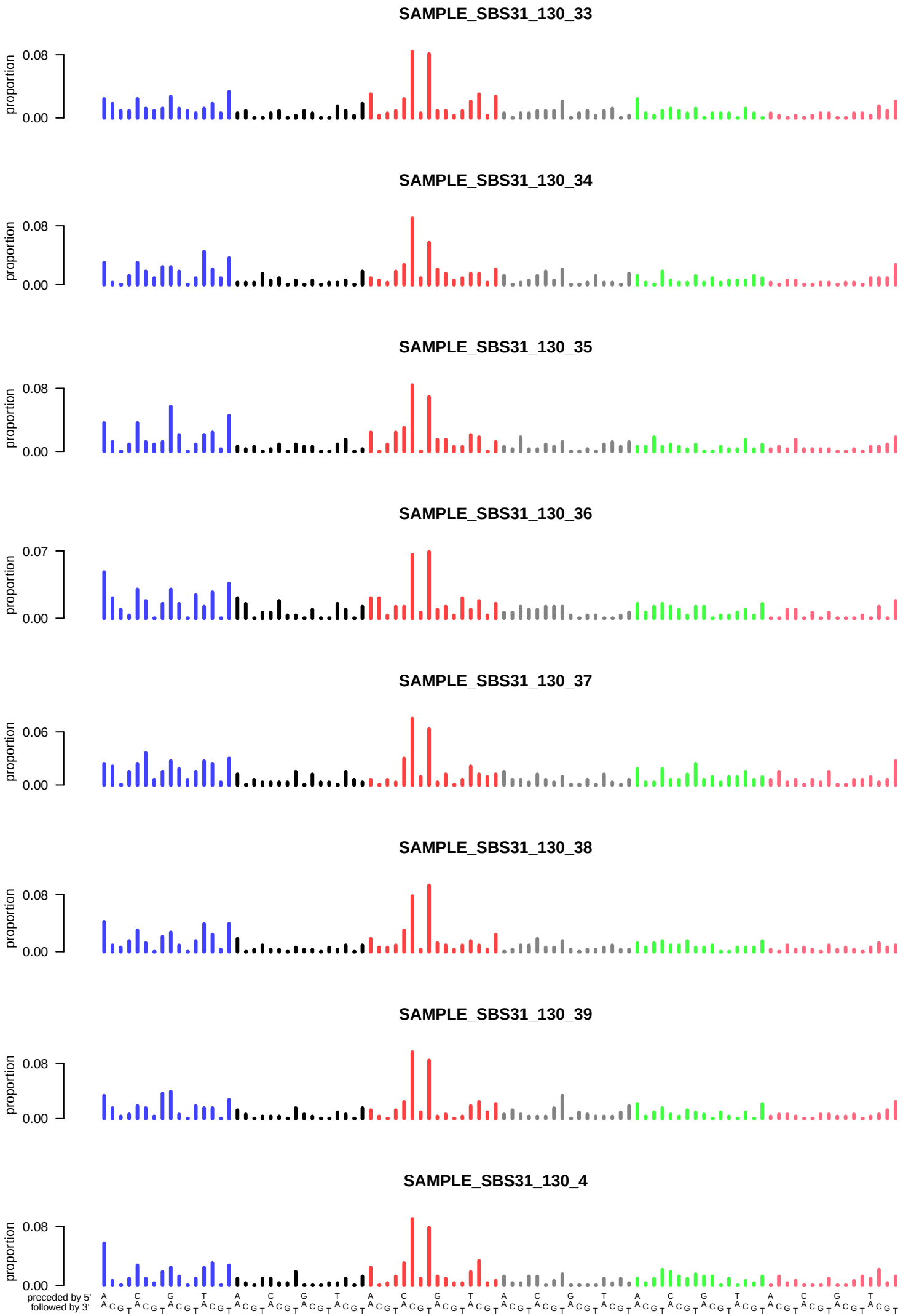
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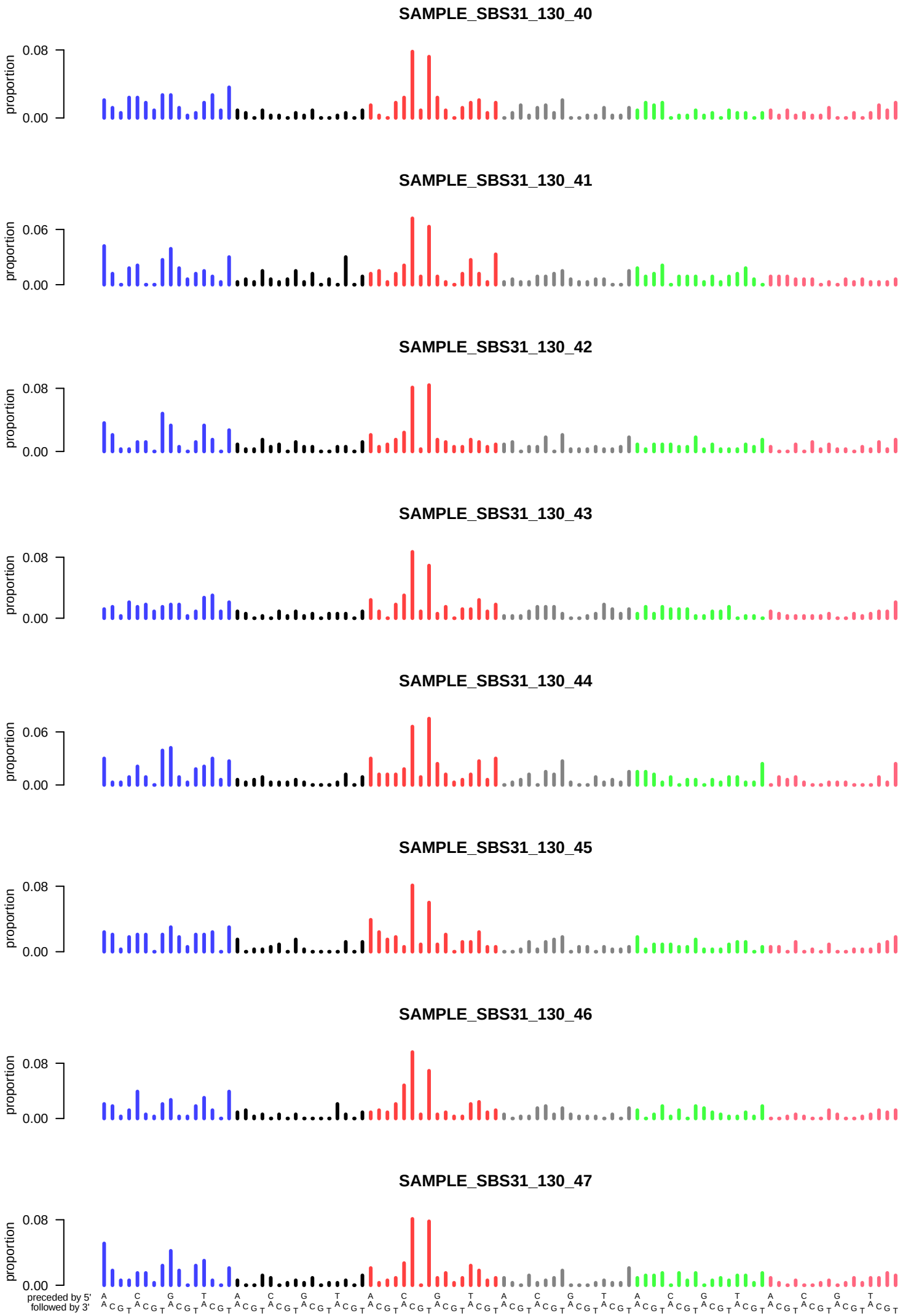
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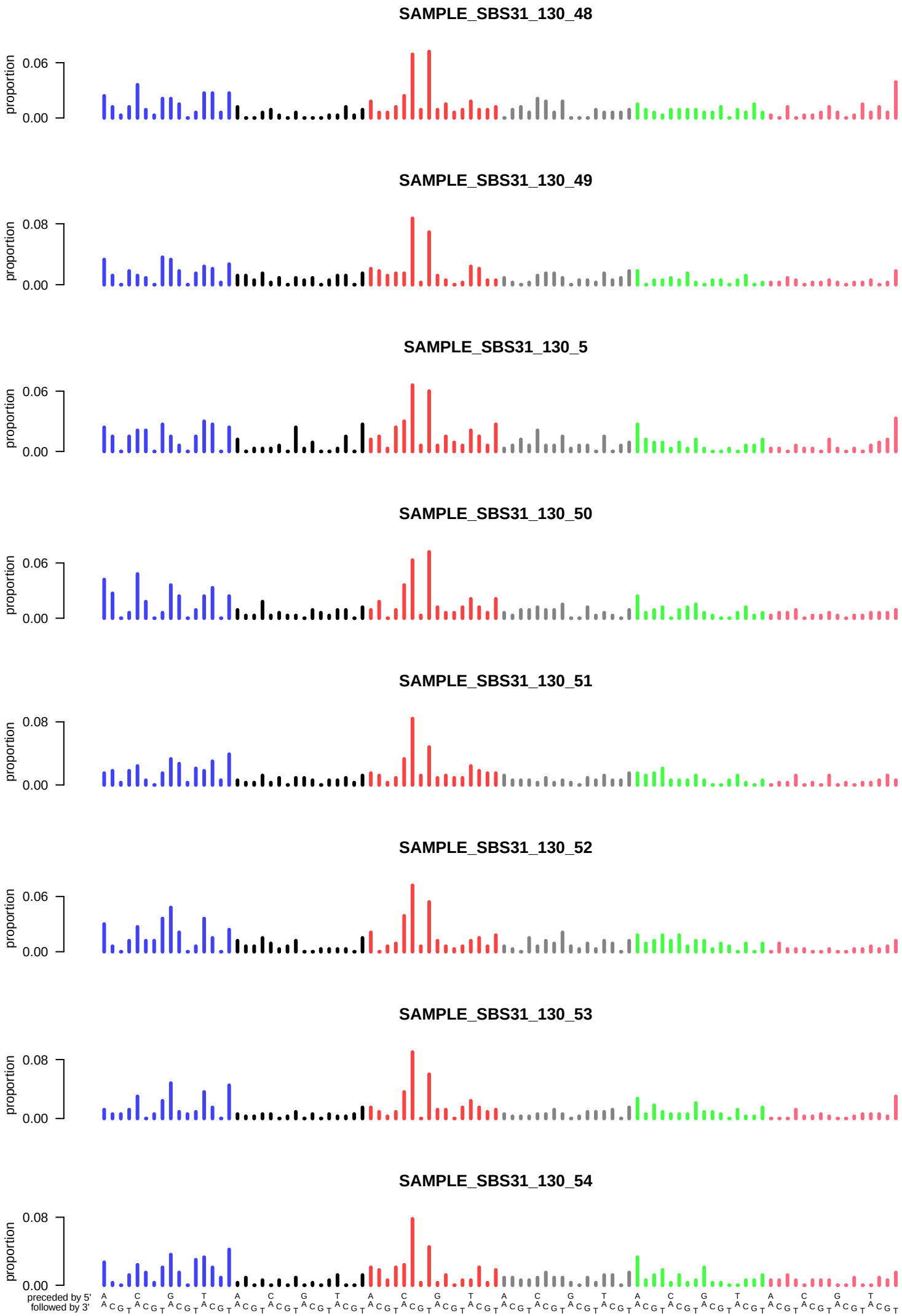
followed by 3'
A C G T A C G T A C G T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followed by 3'
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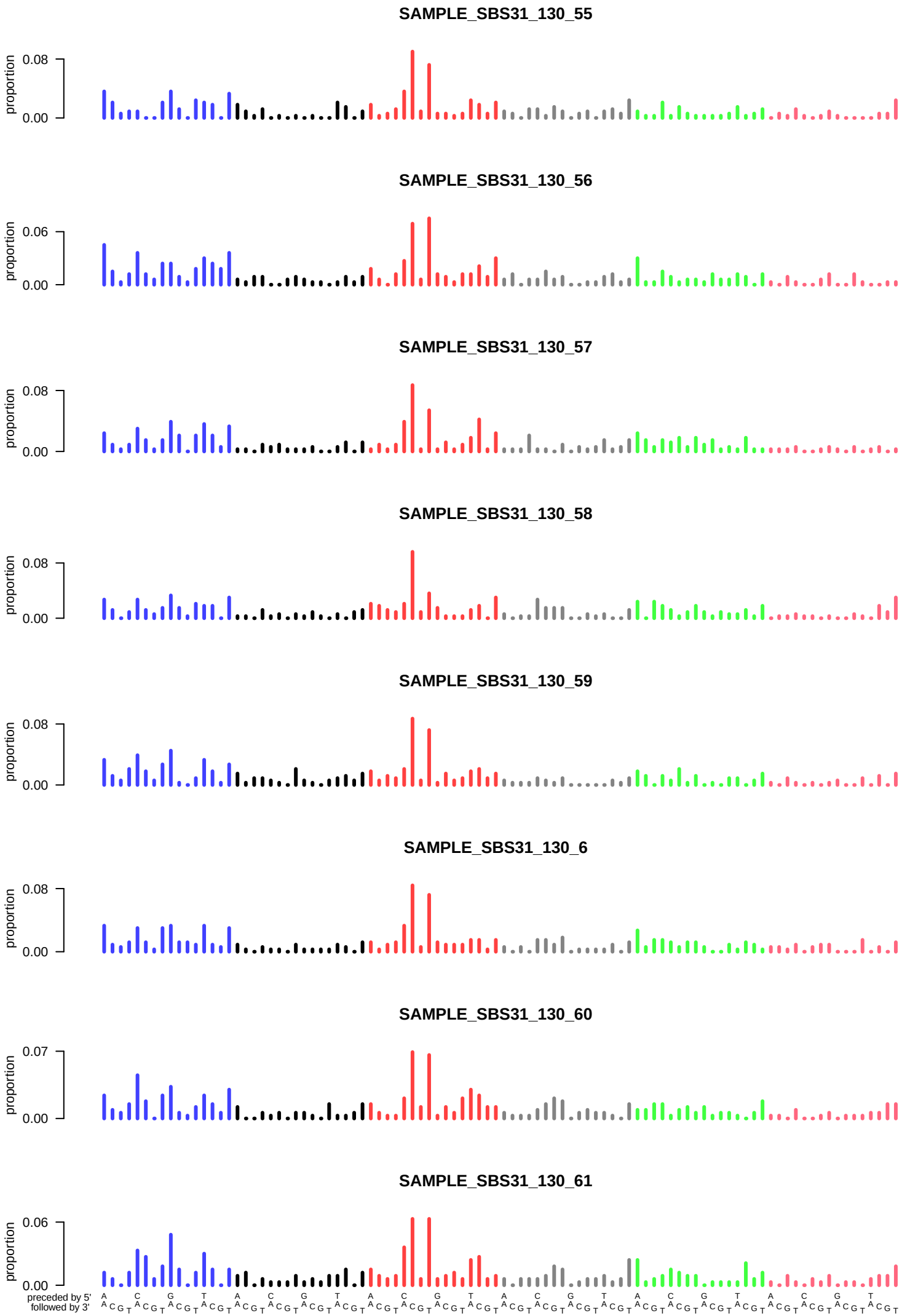
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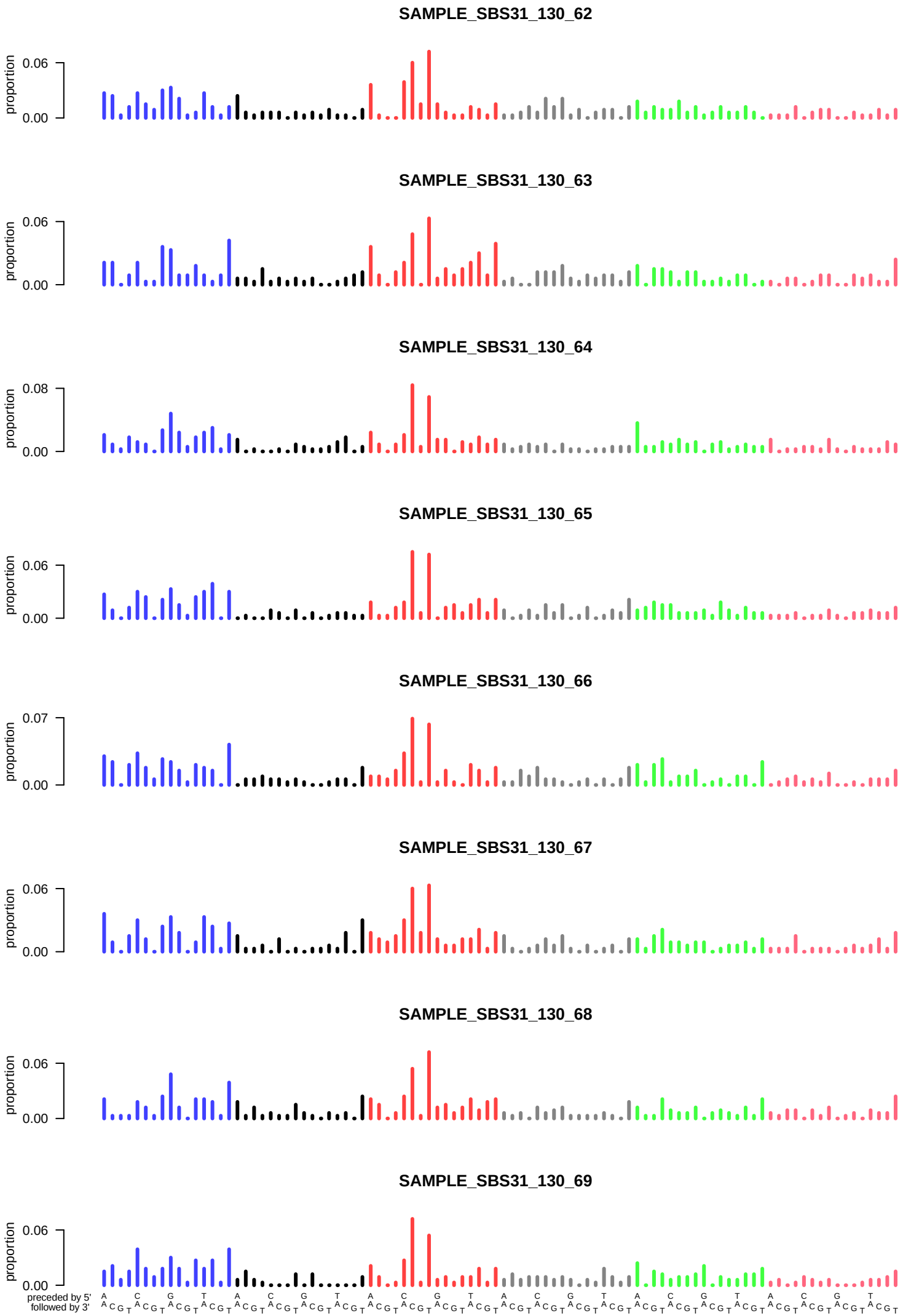
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followed by 3'
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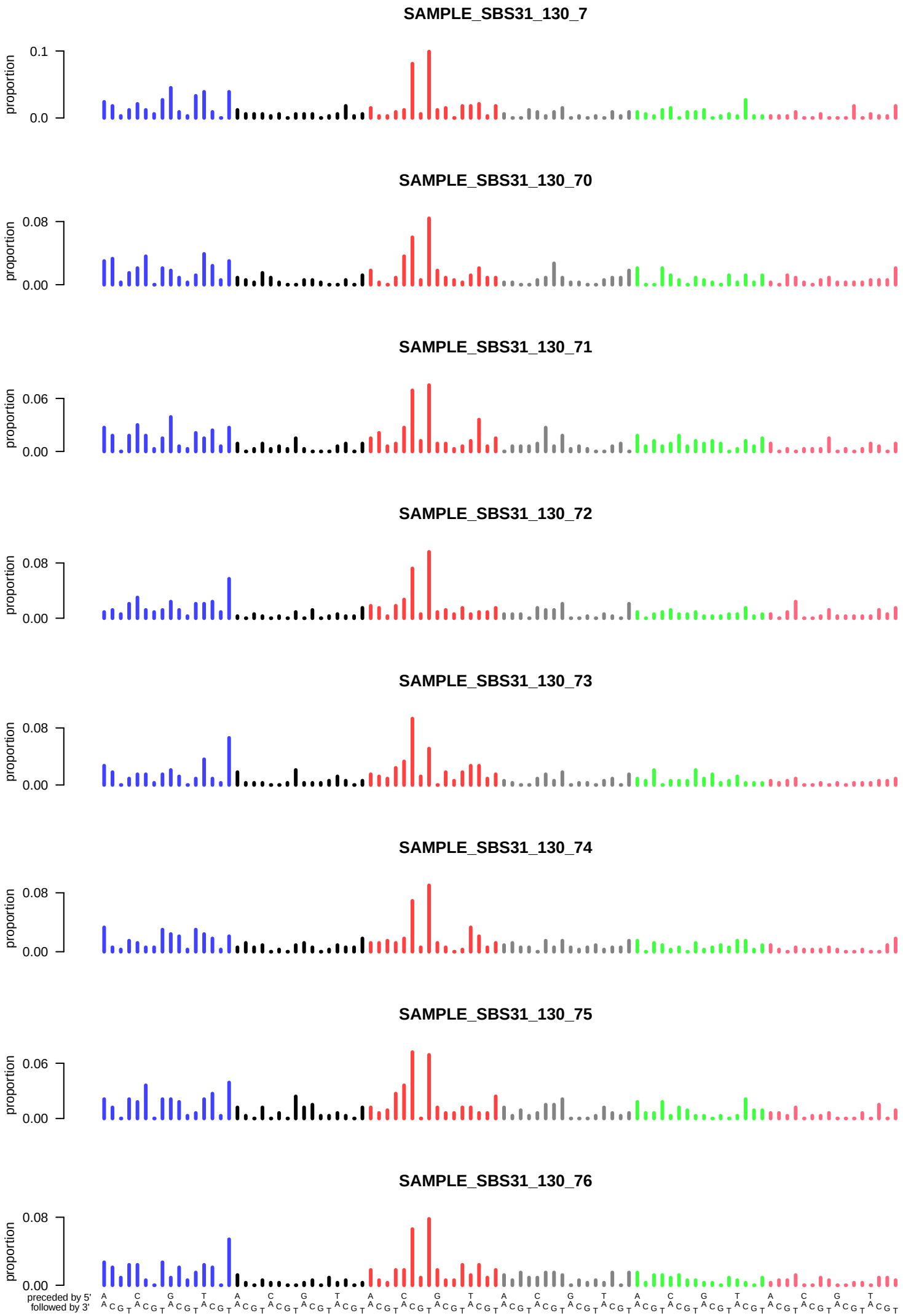
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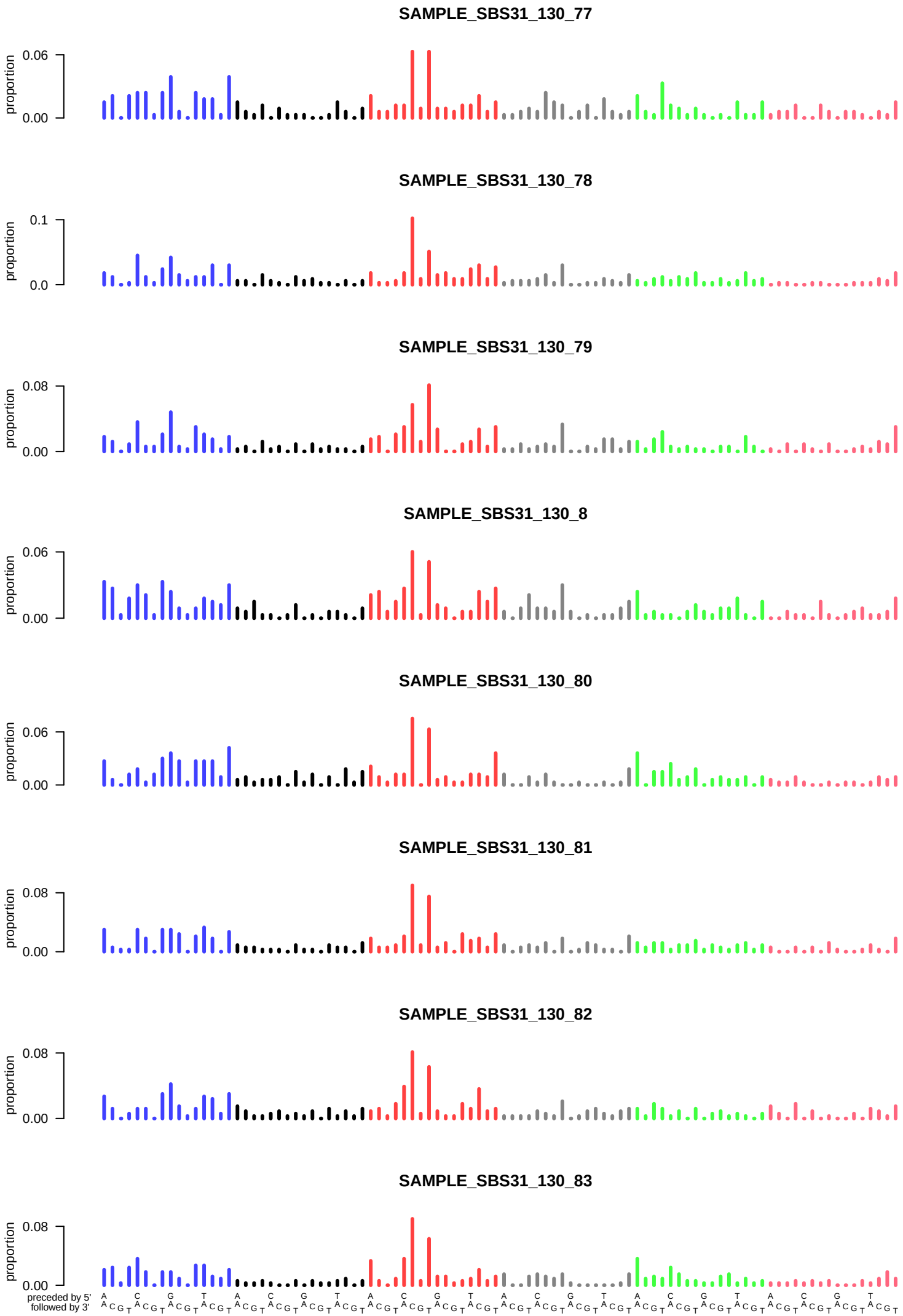
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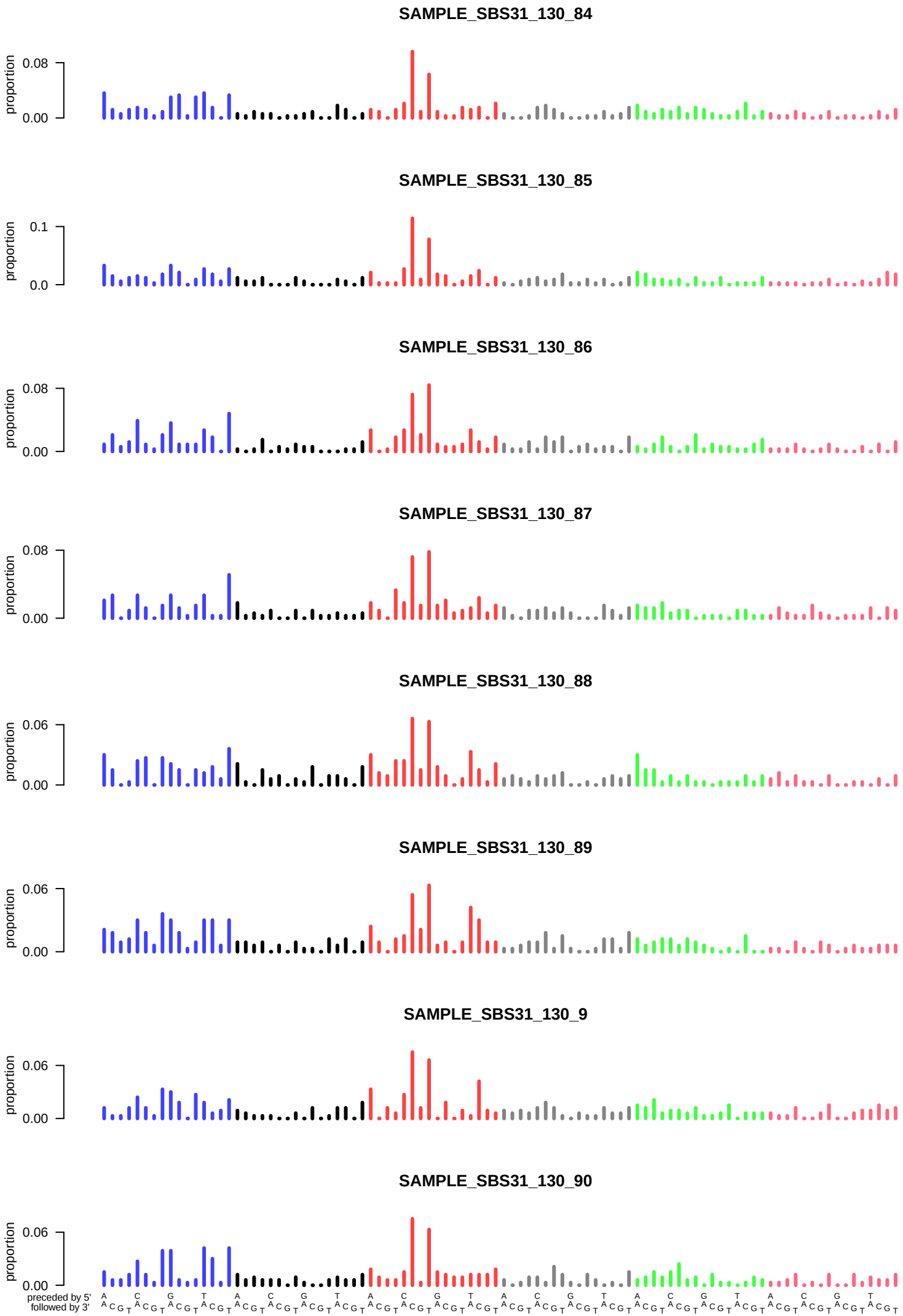
A C G T A C G T A C G T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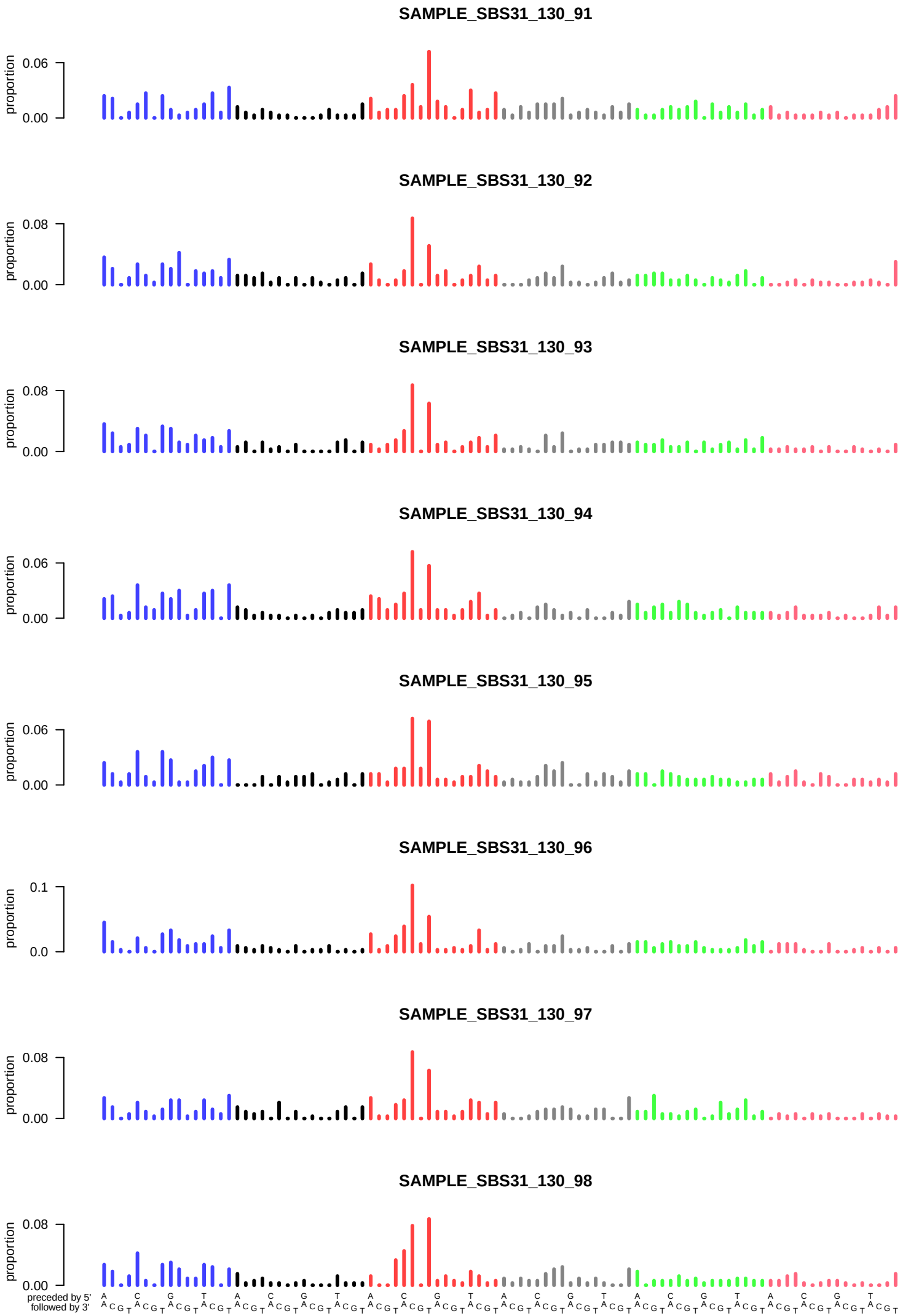
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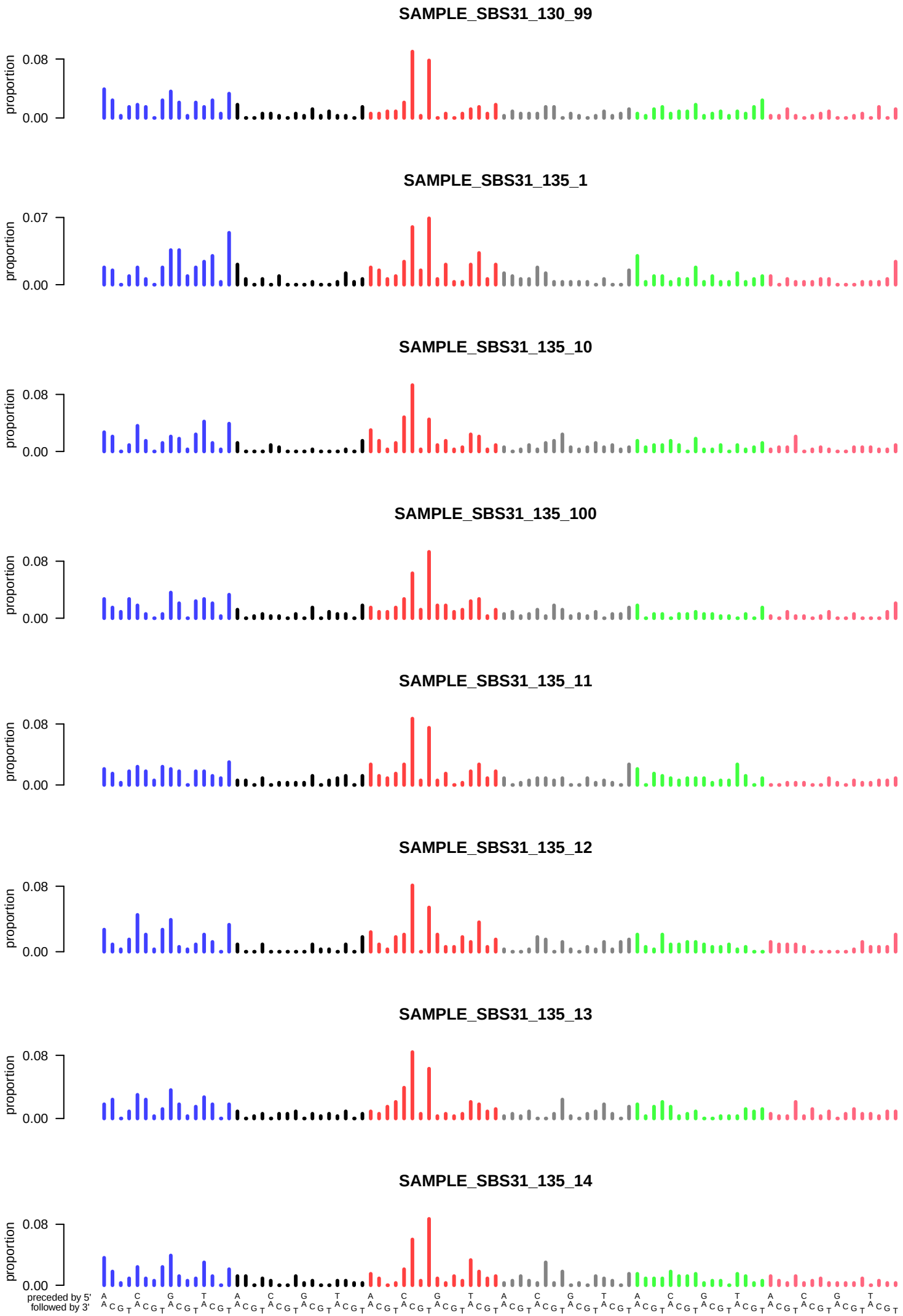
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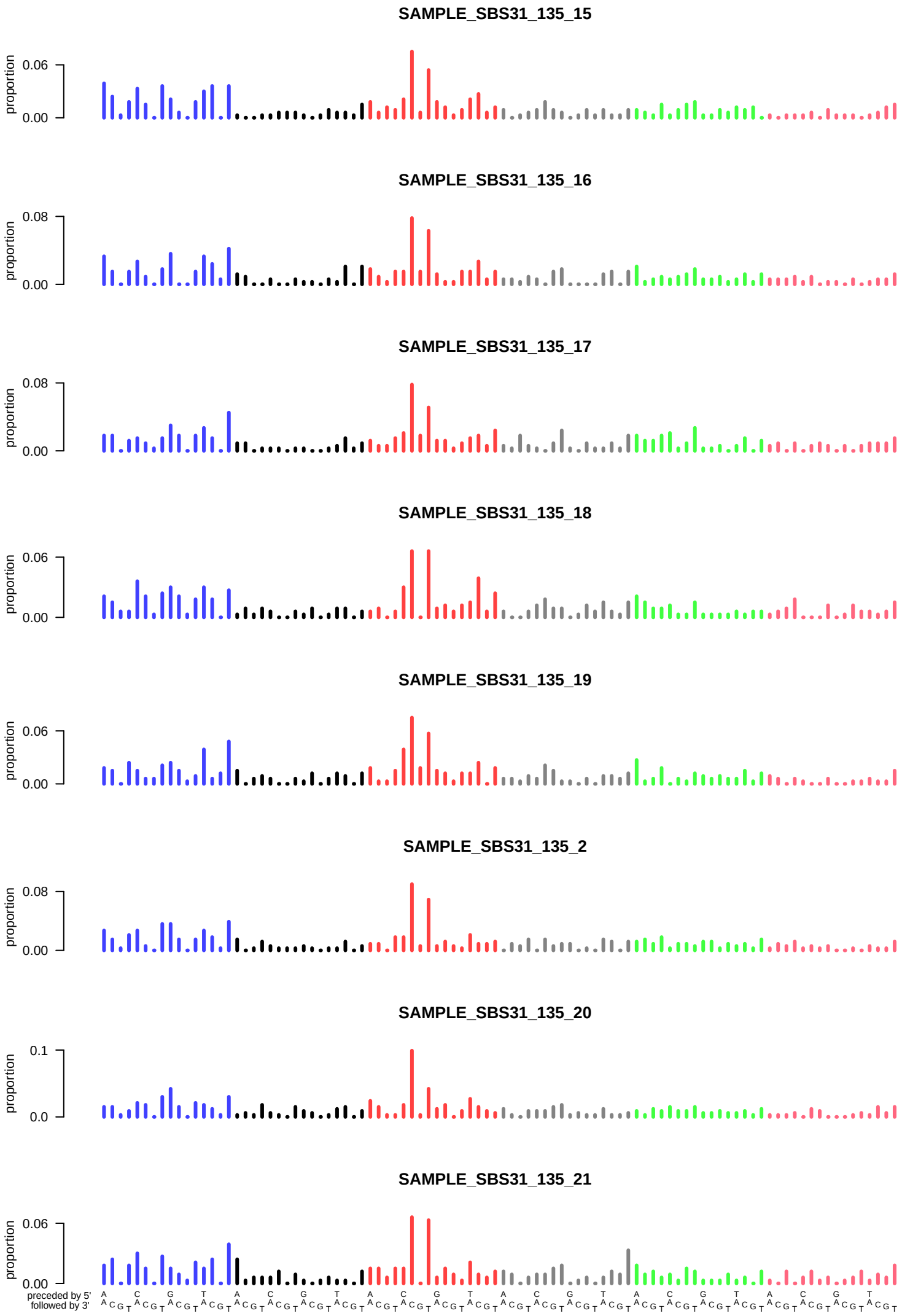
followed by 3'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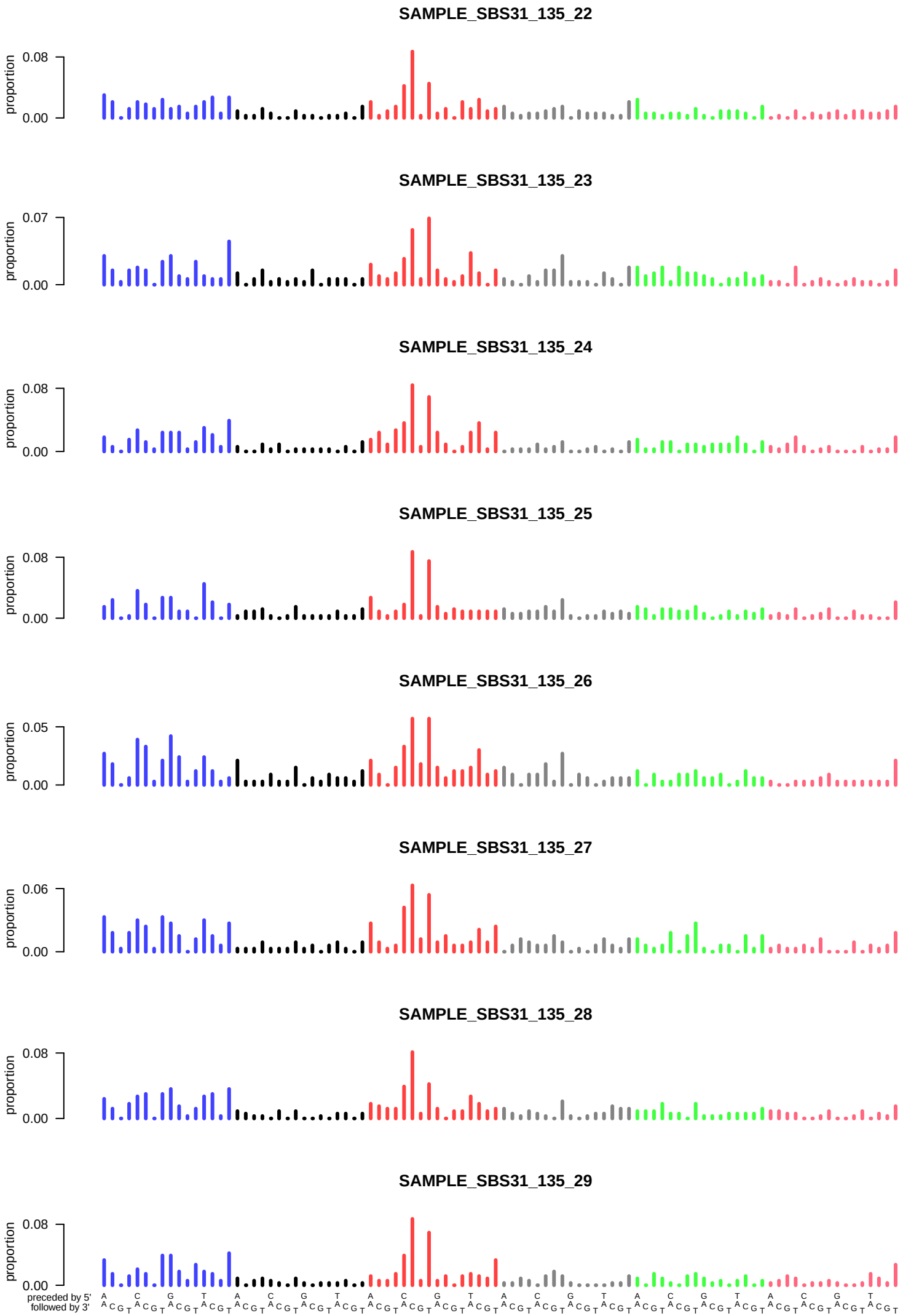
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followed by 3'
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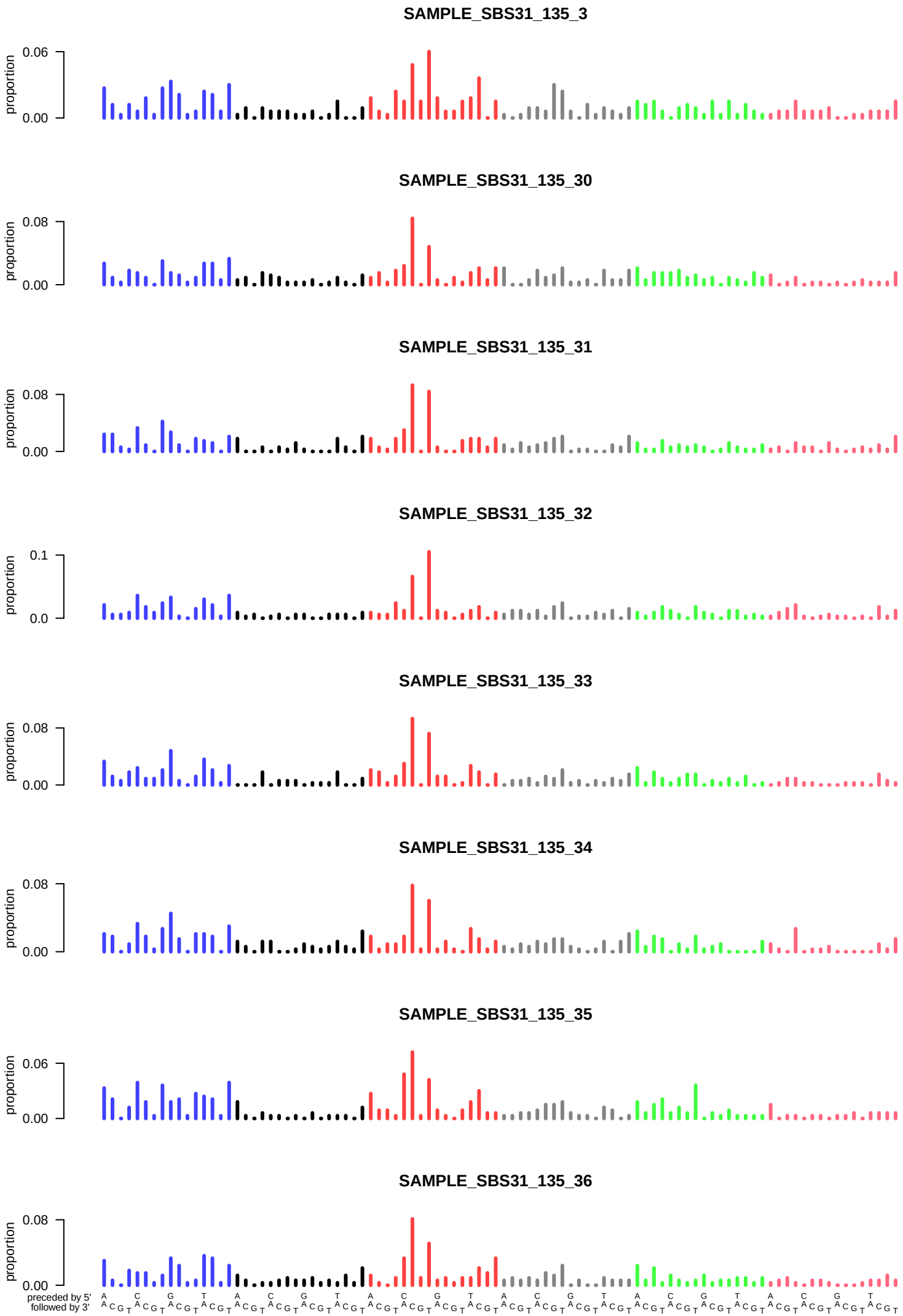
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followed by 3'
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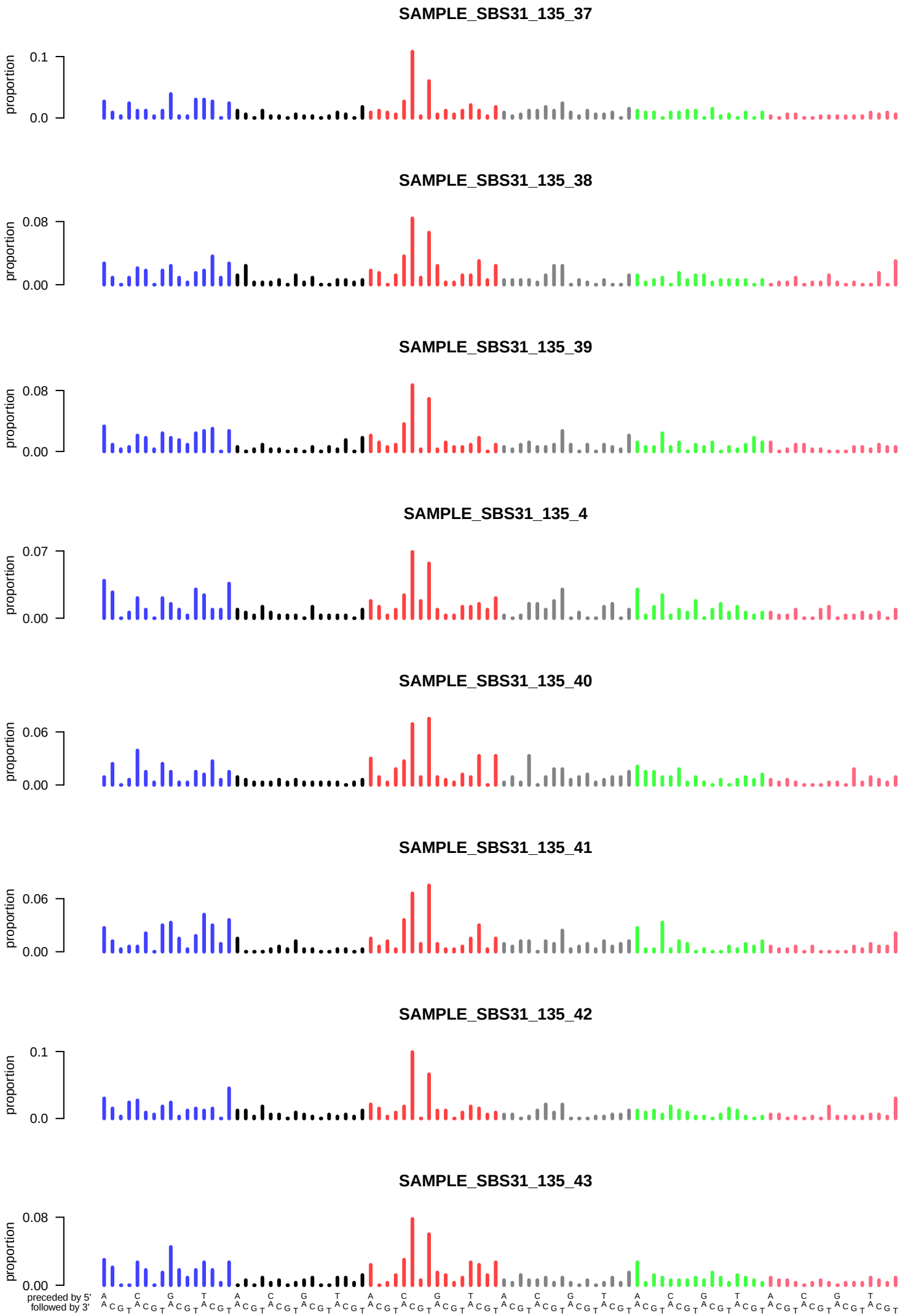
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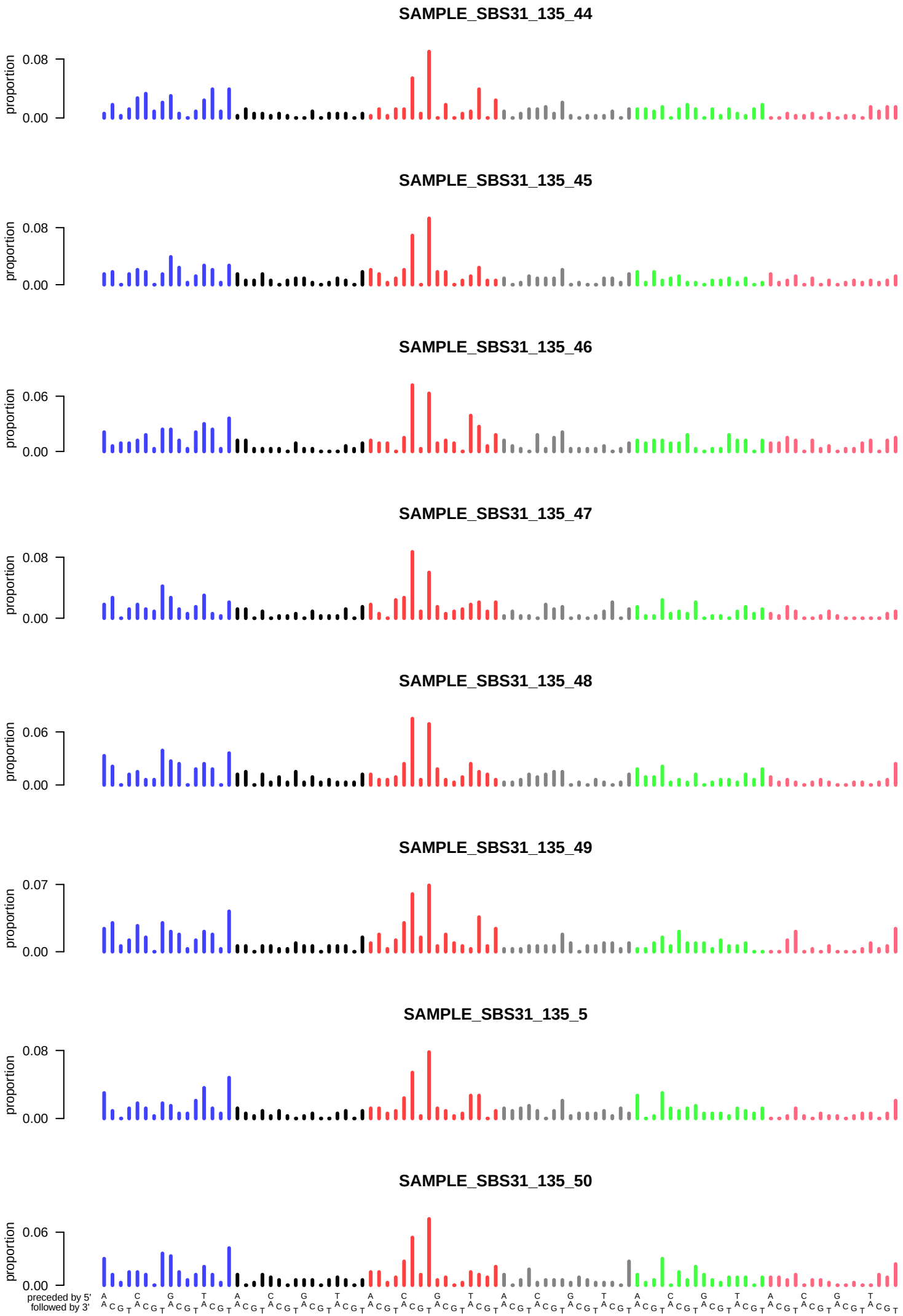
followed by 3'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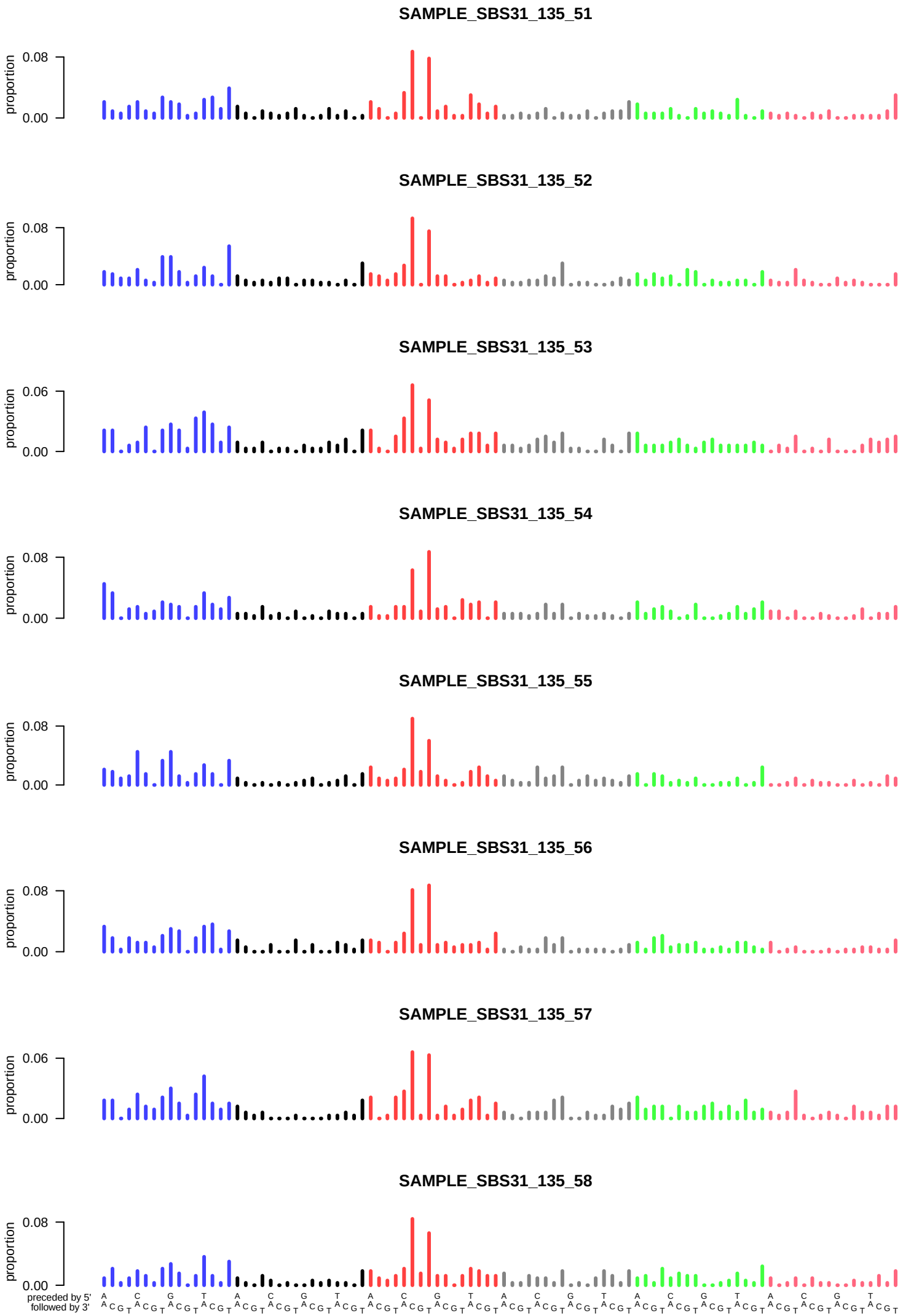
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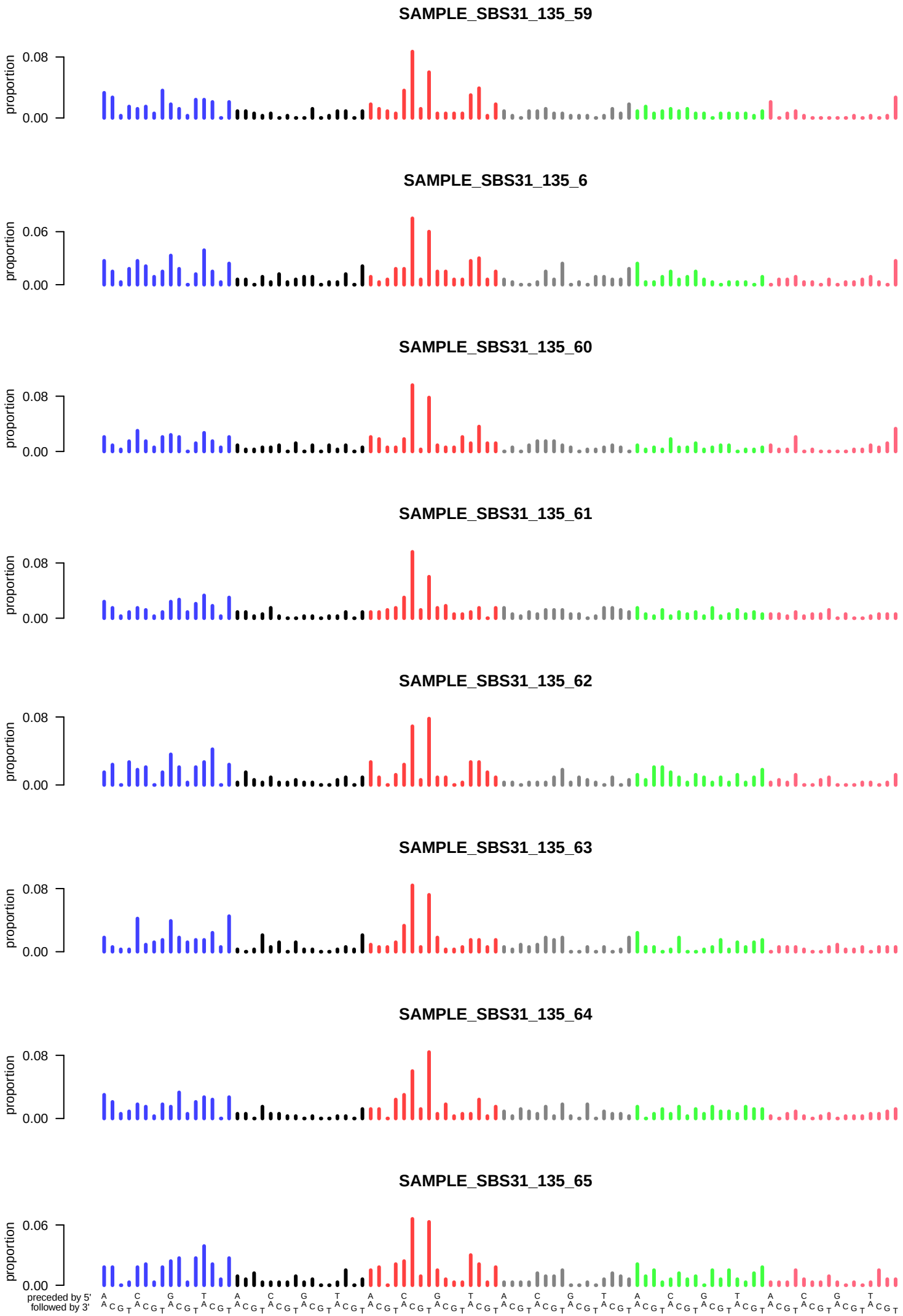
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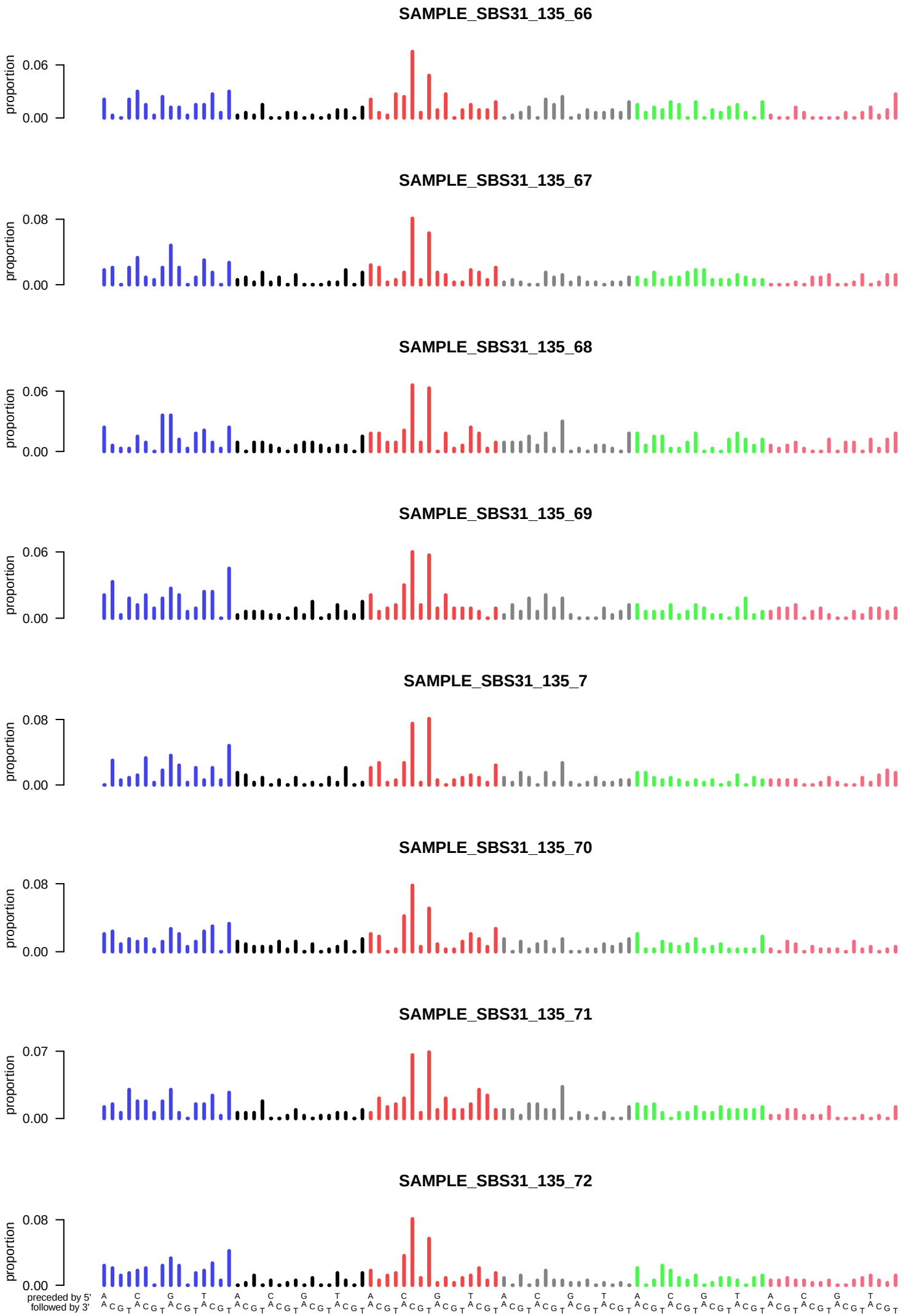
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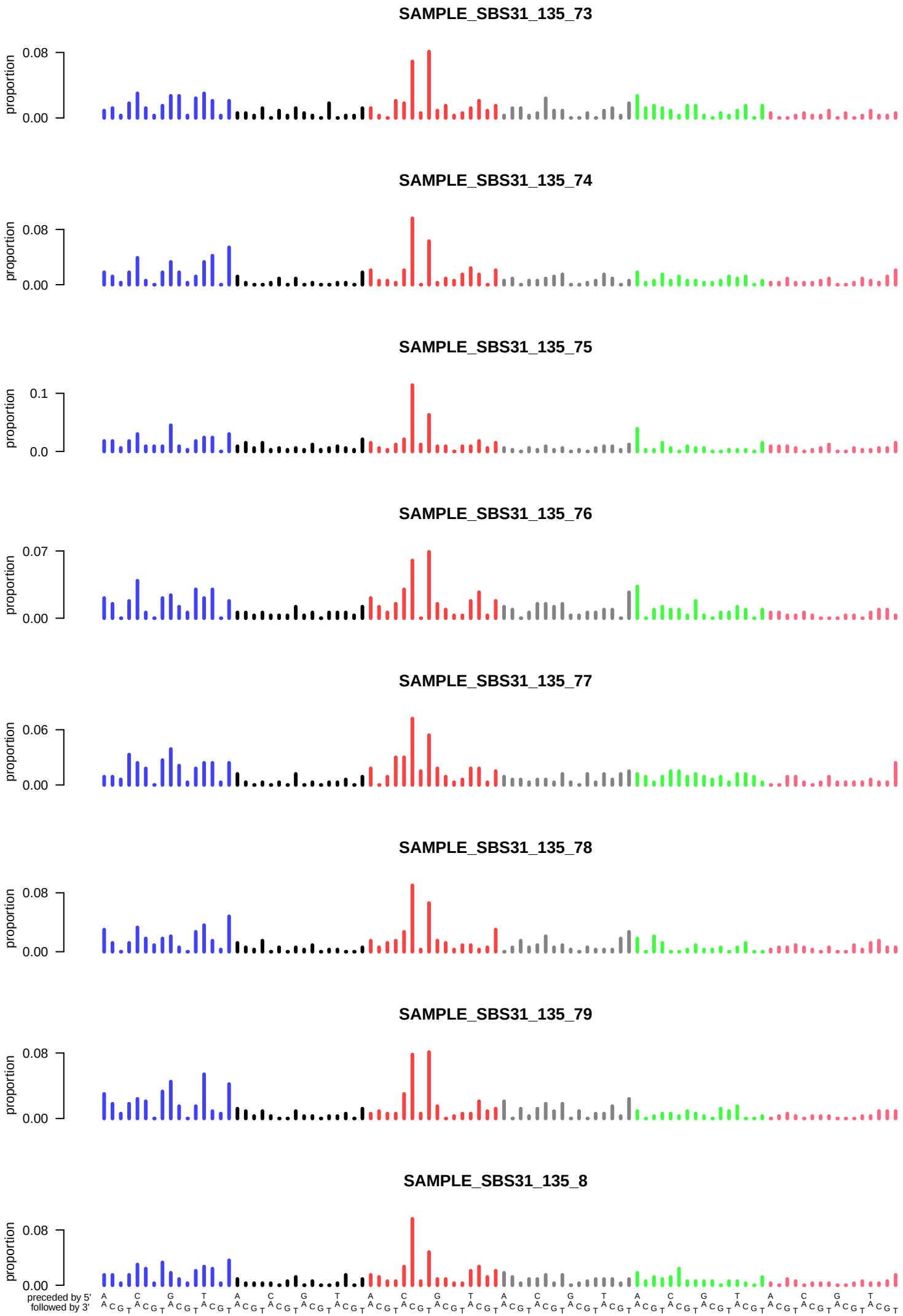
followed by 3'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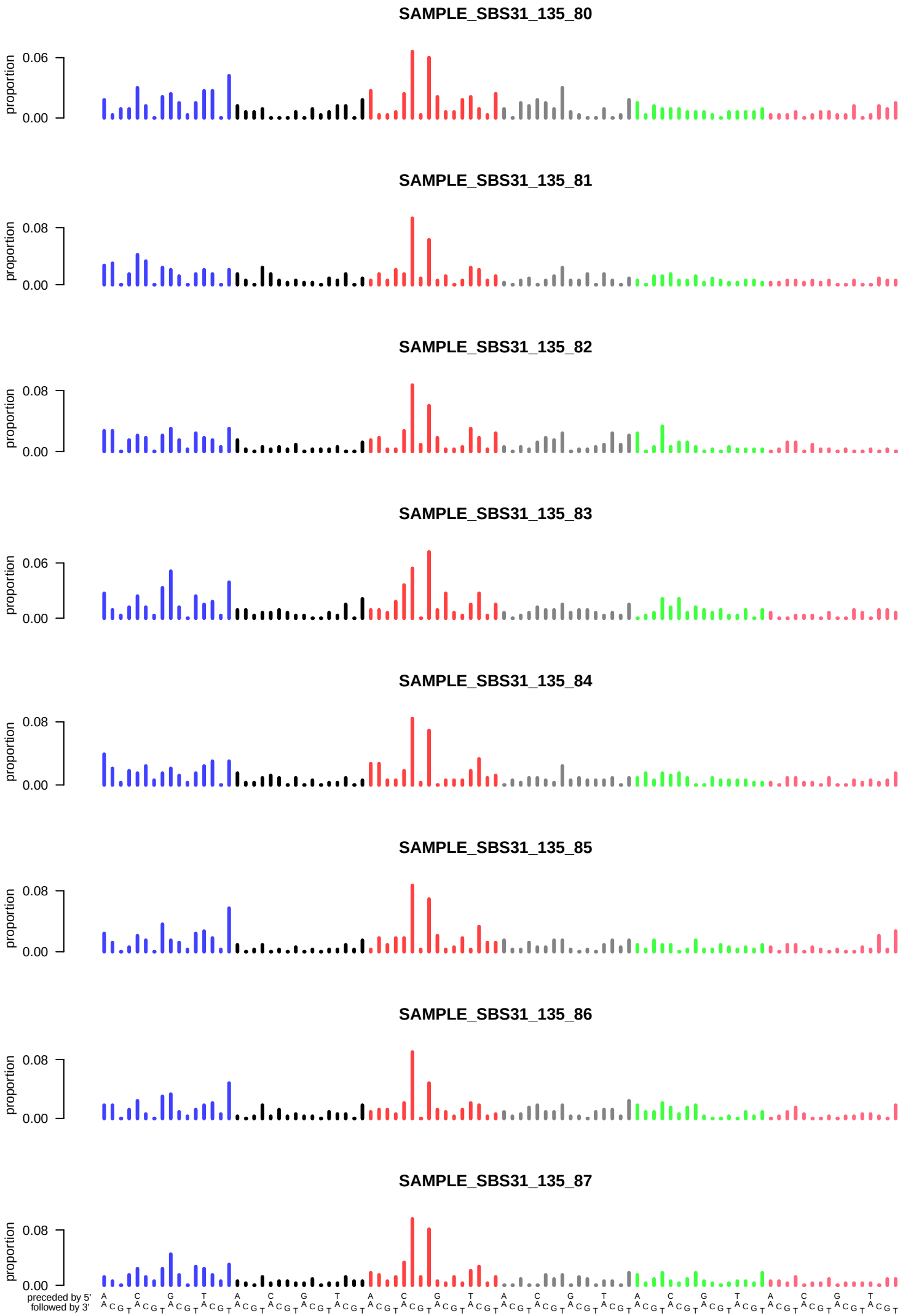
followed by 3'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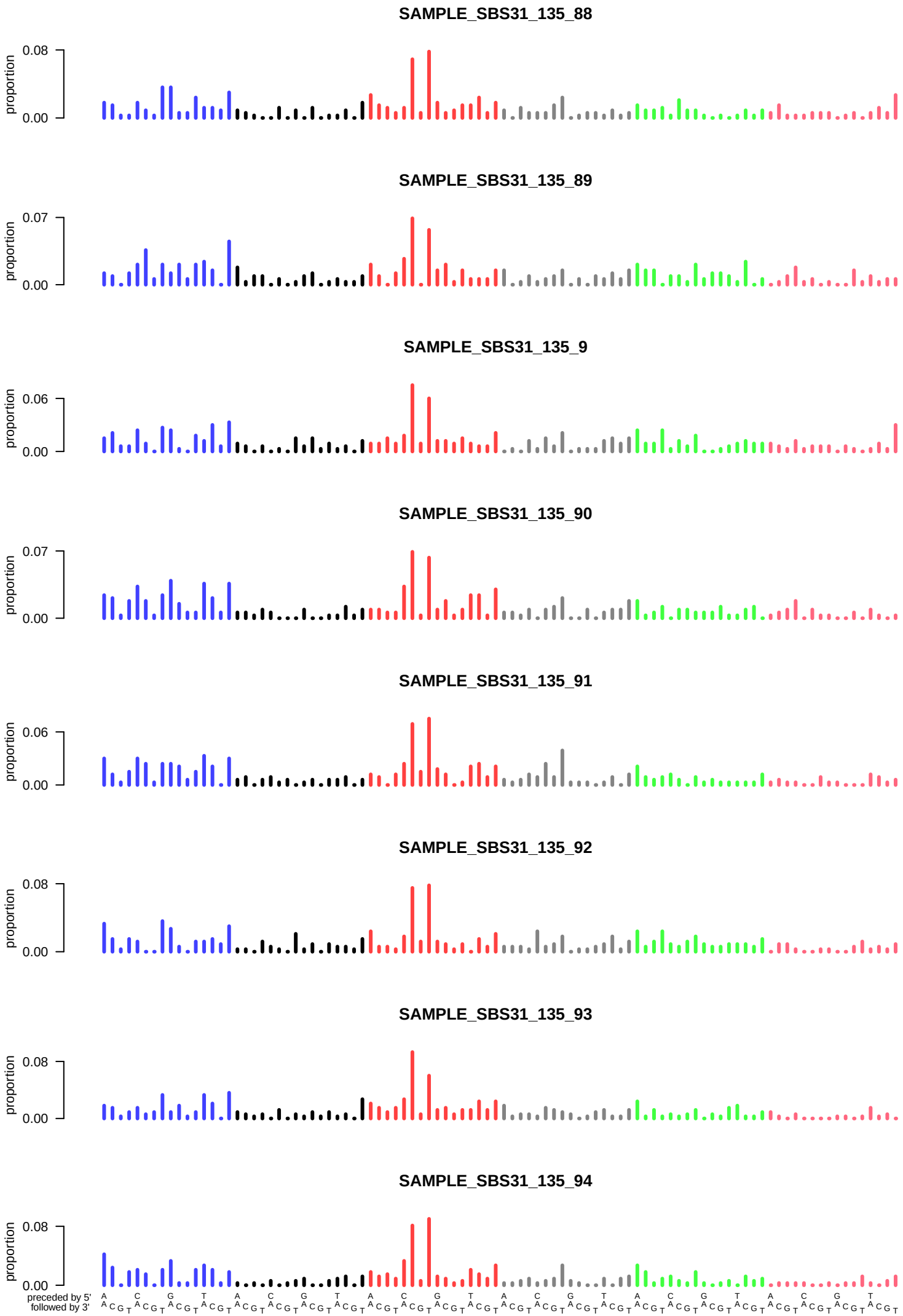
followed by 3'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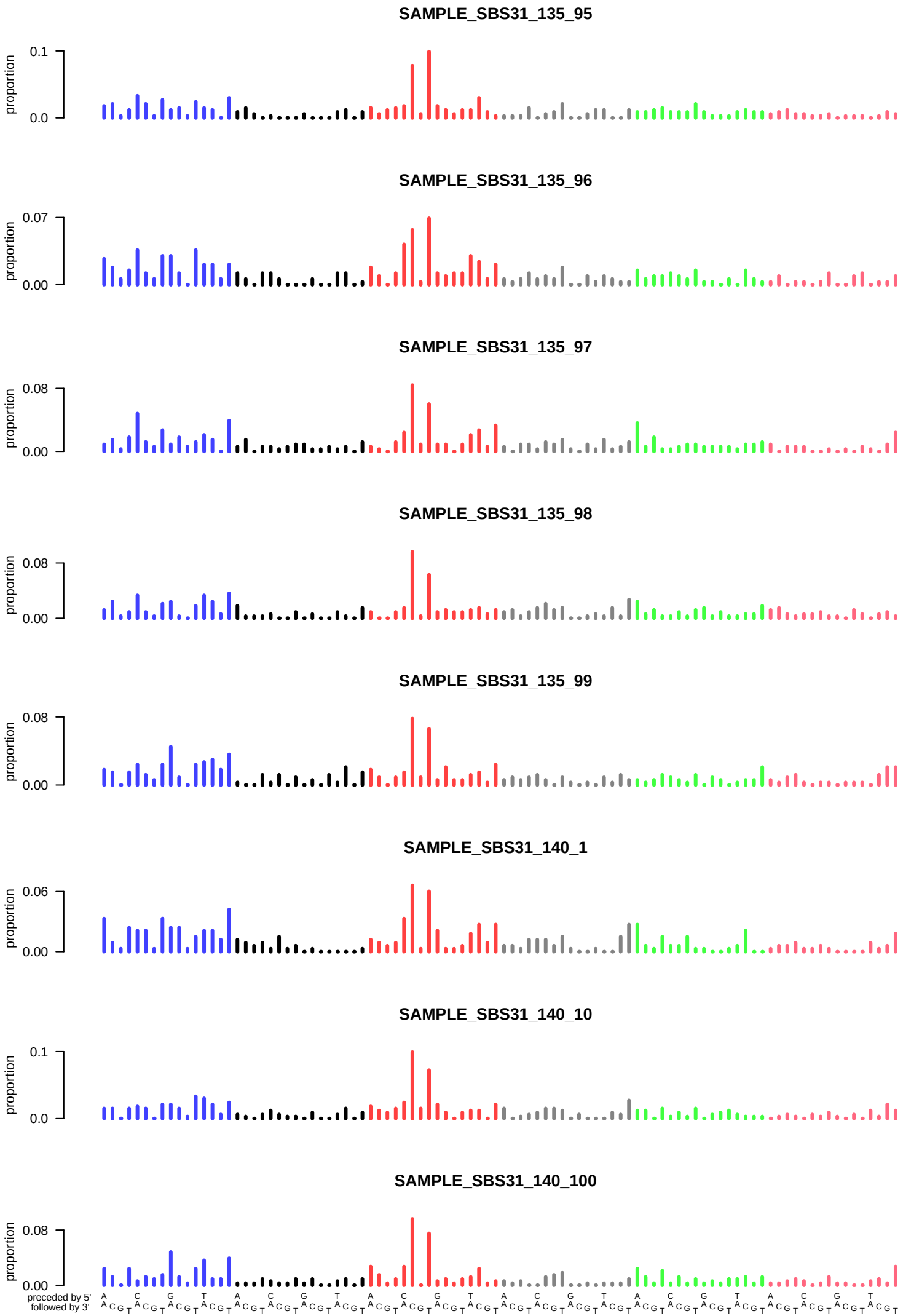
followed by 3'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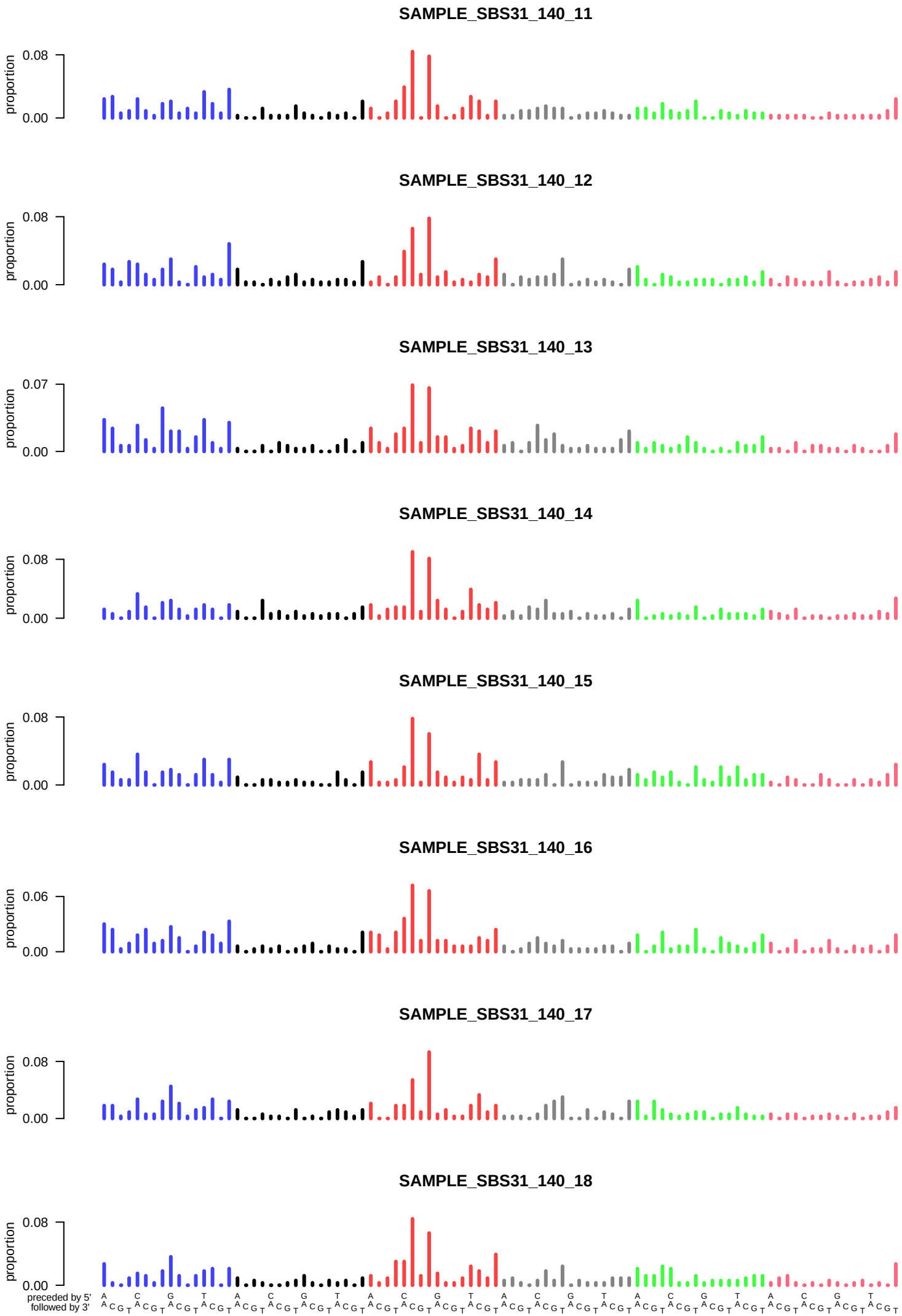
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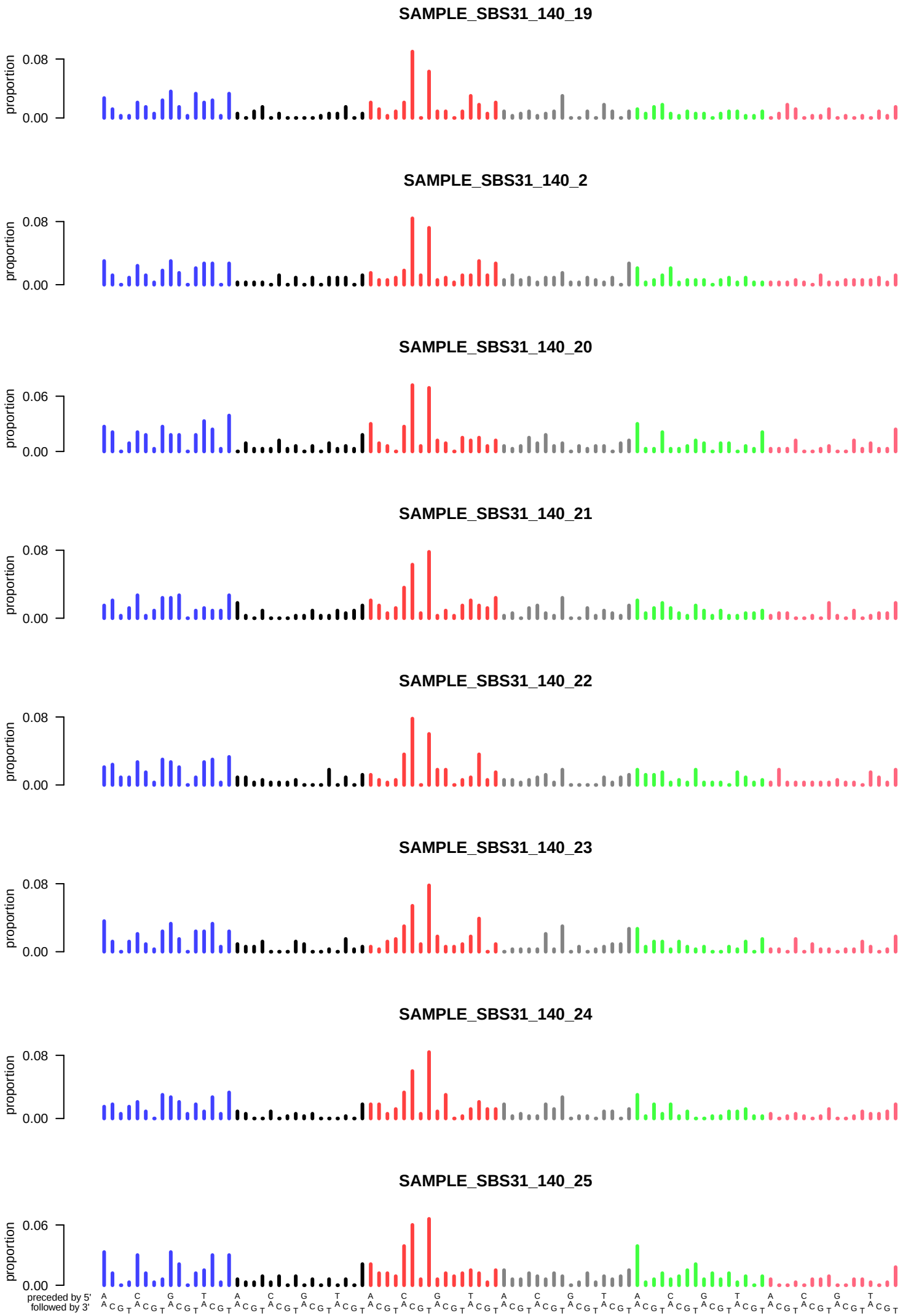
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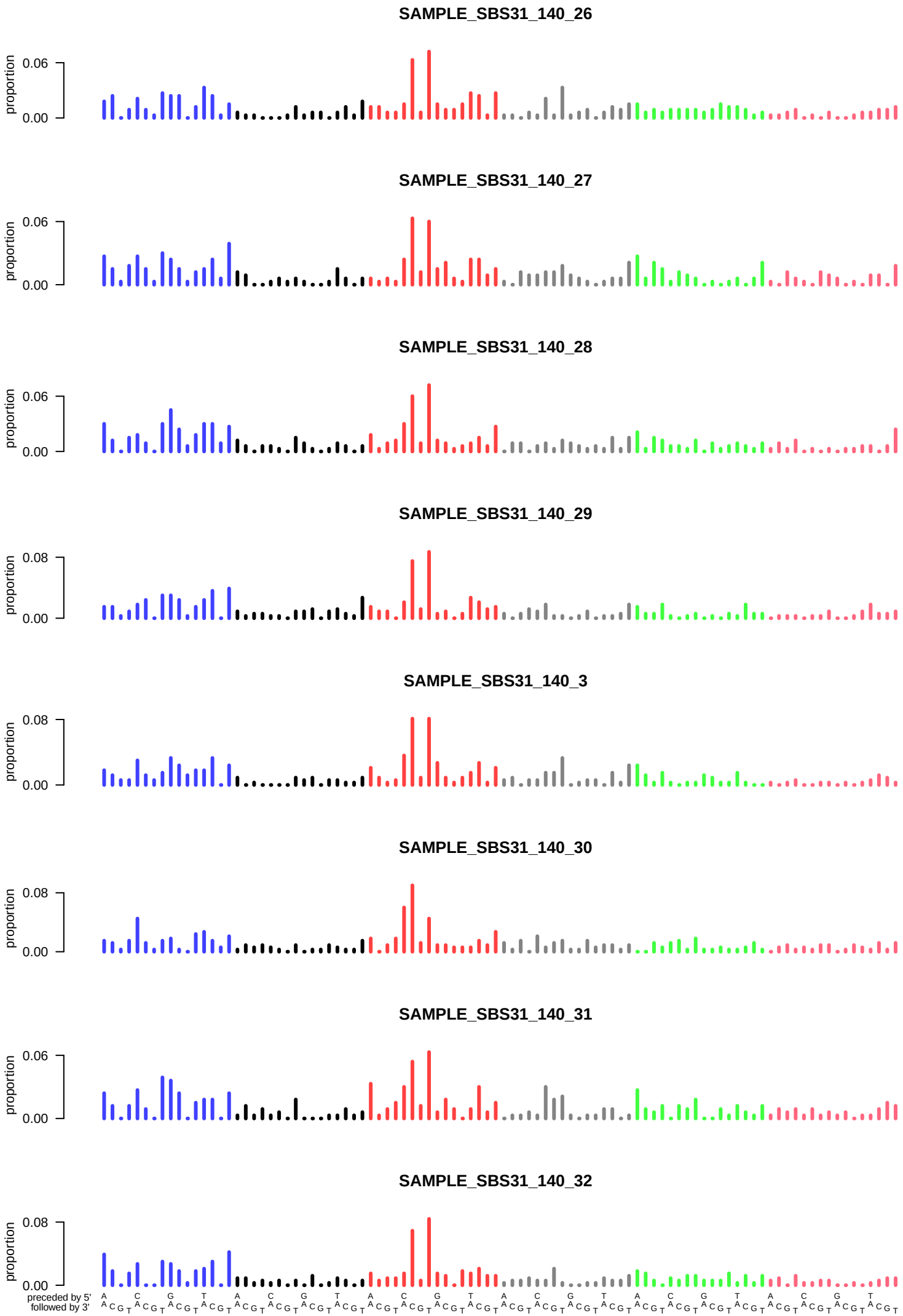
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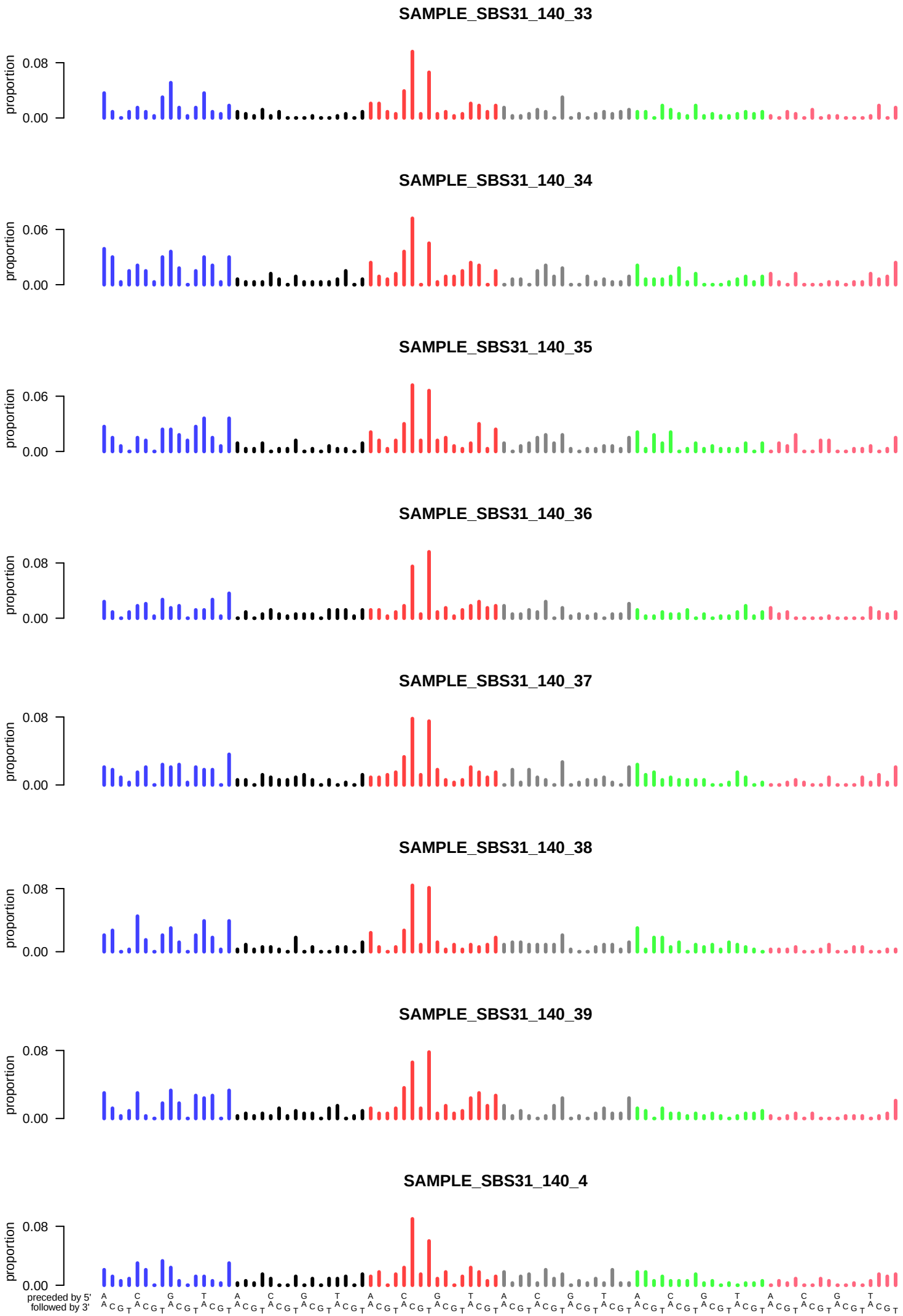
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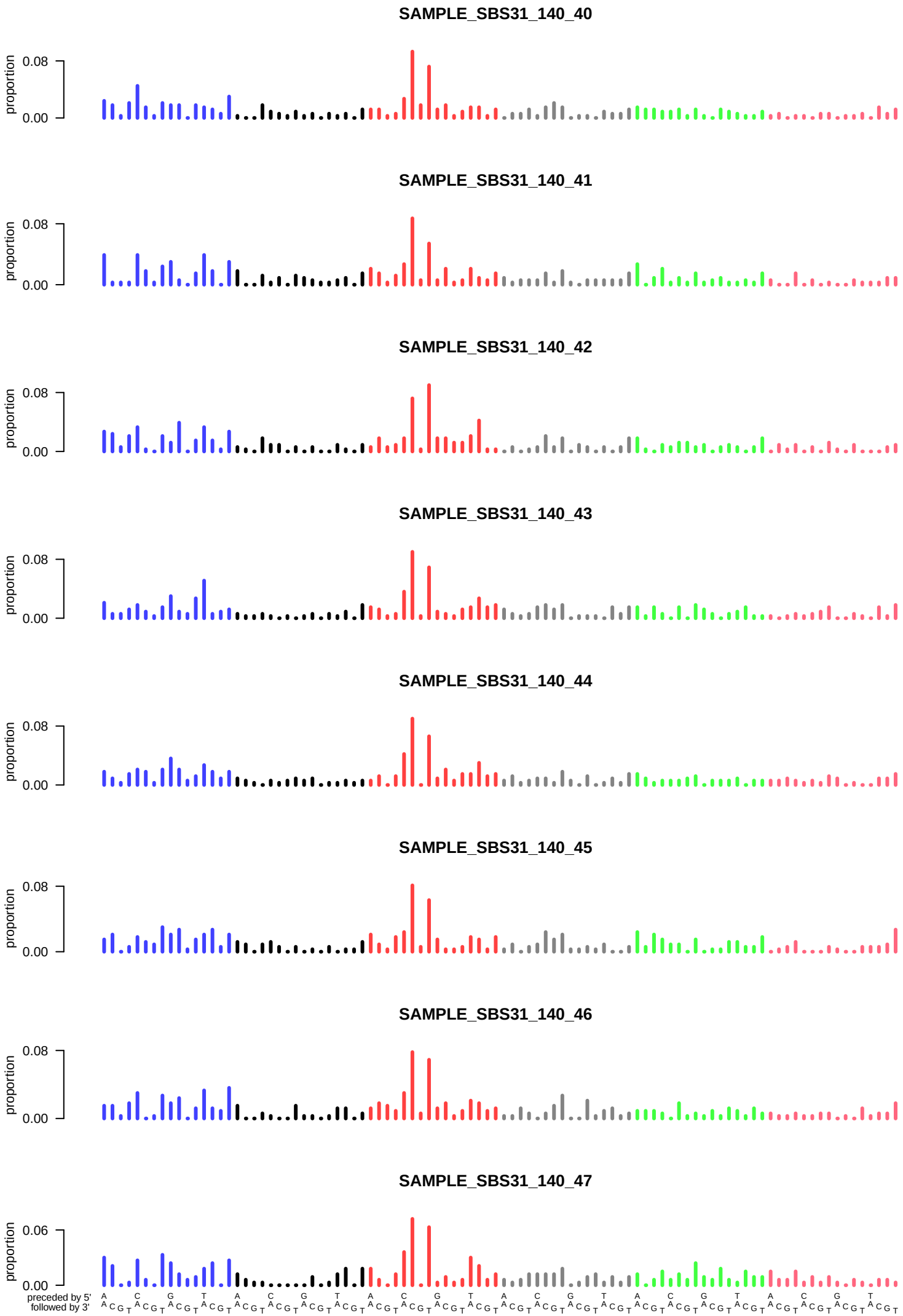
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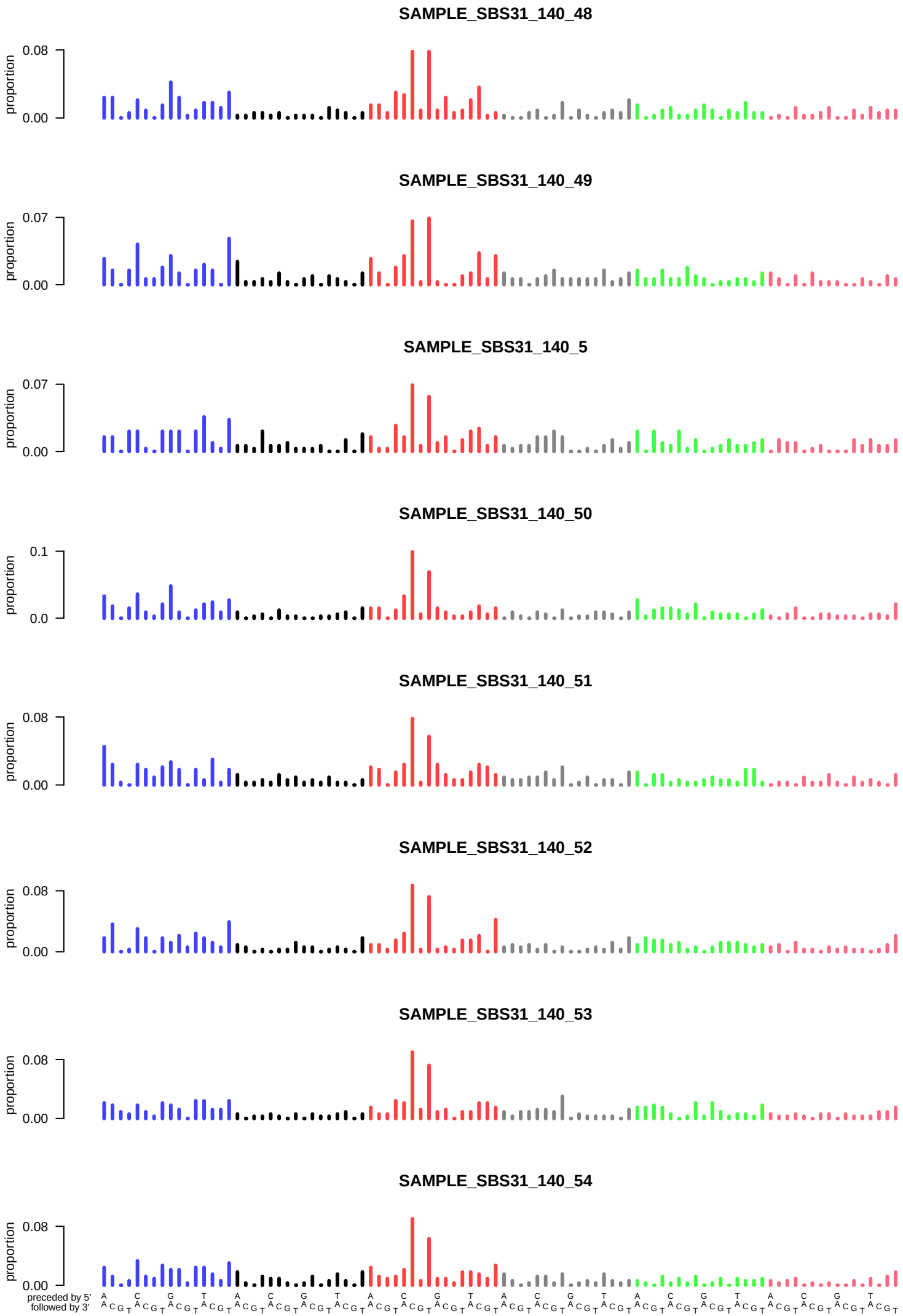
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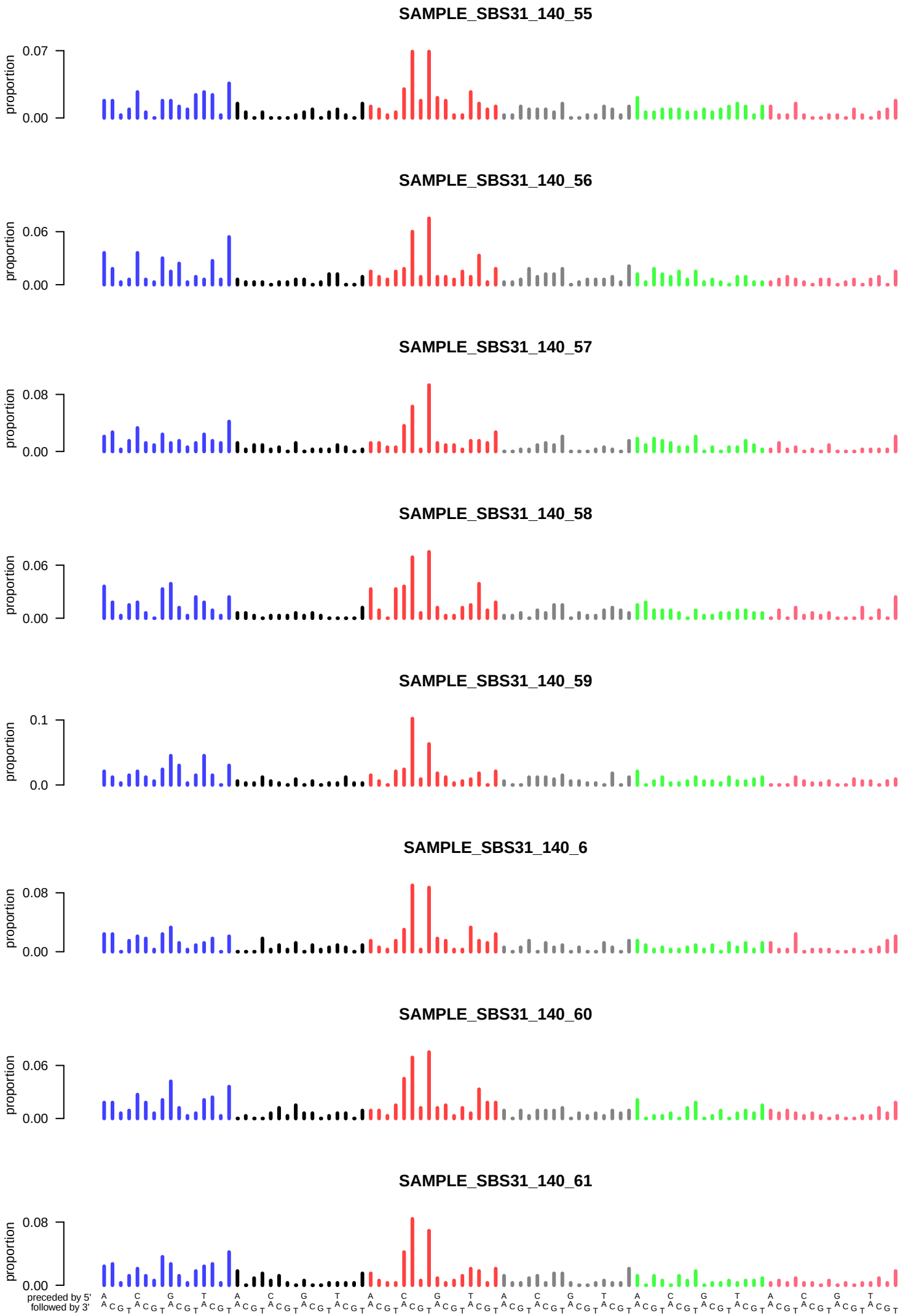
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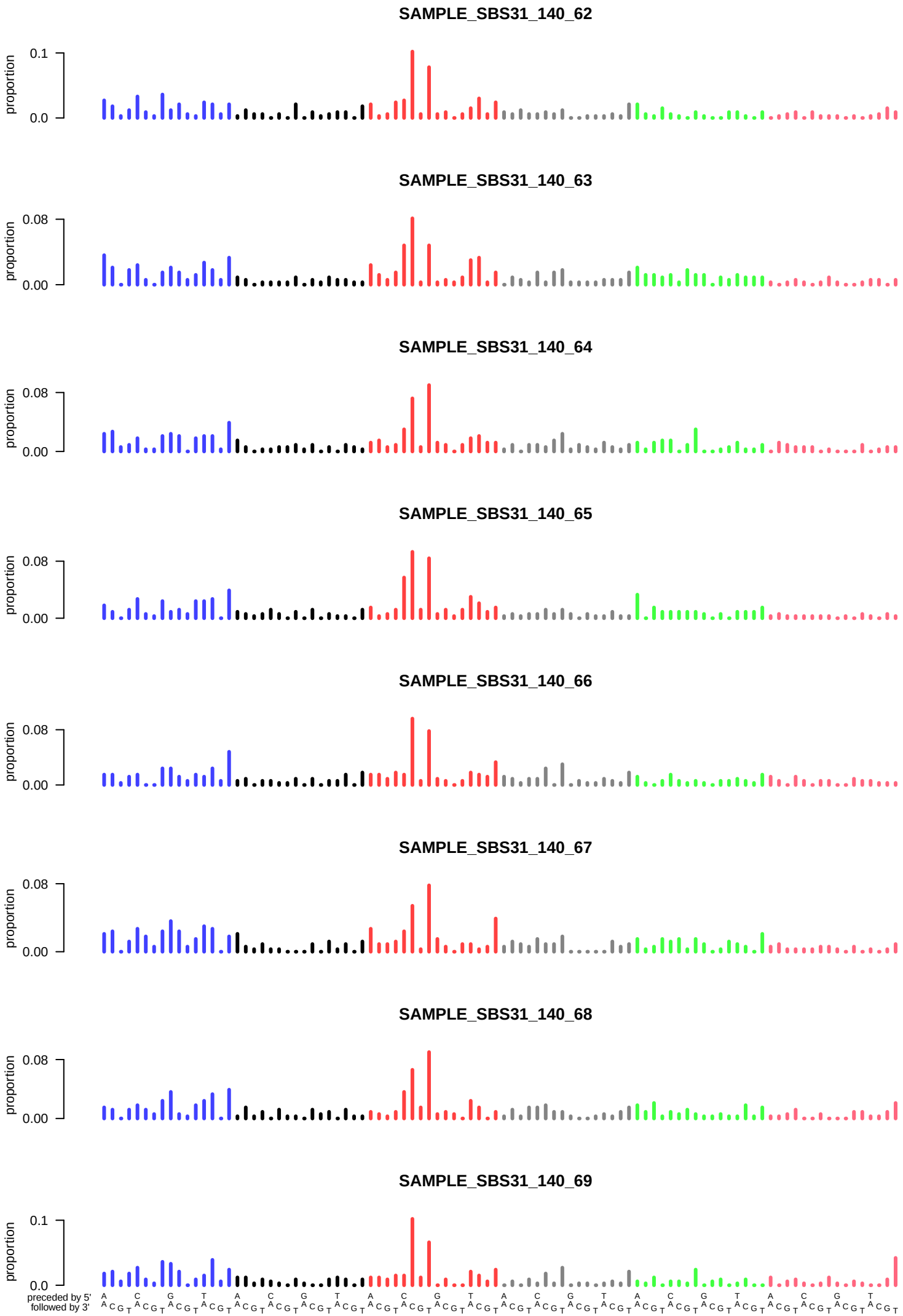
A C G T A C G T A C G T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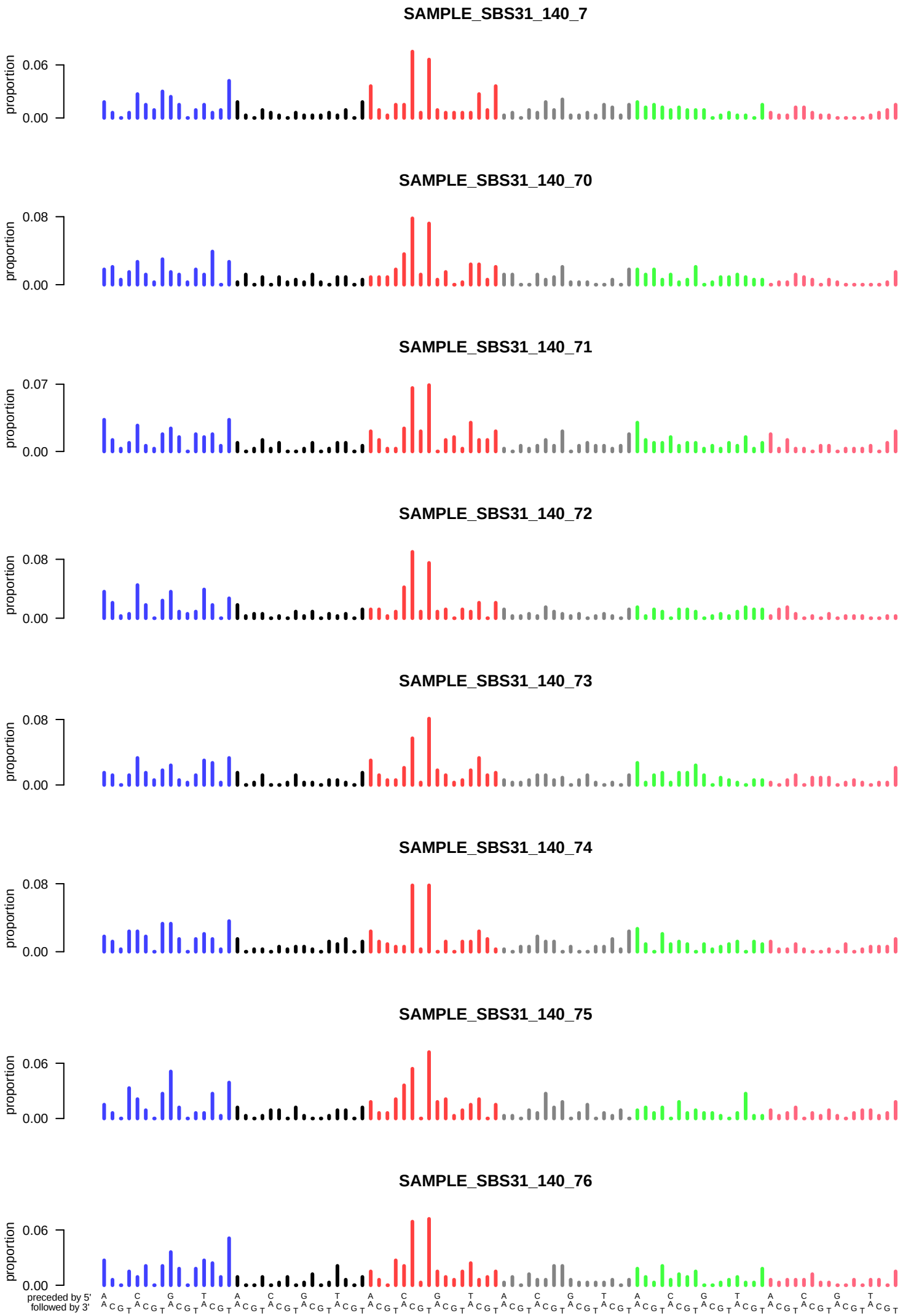
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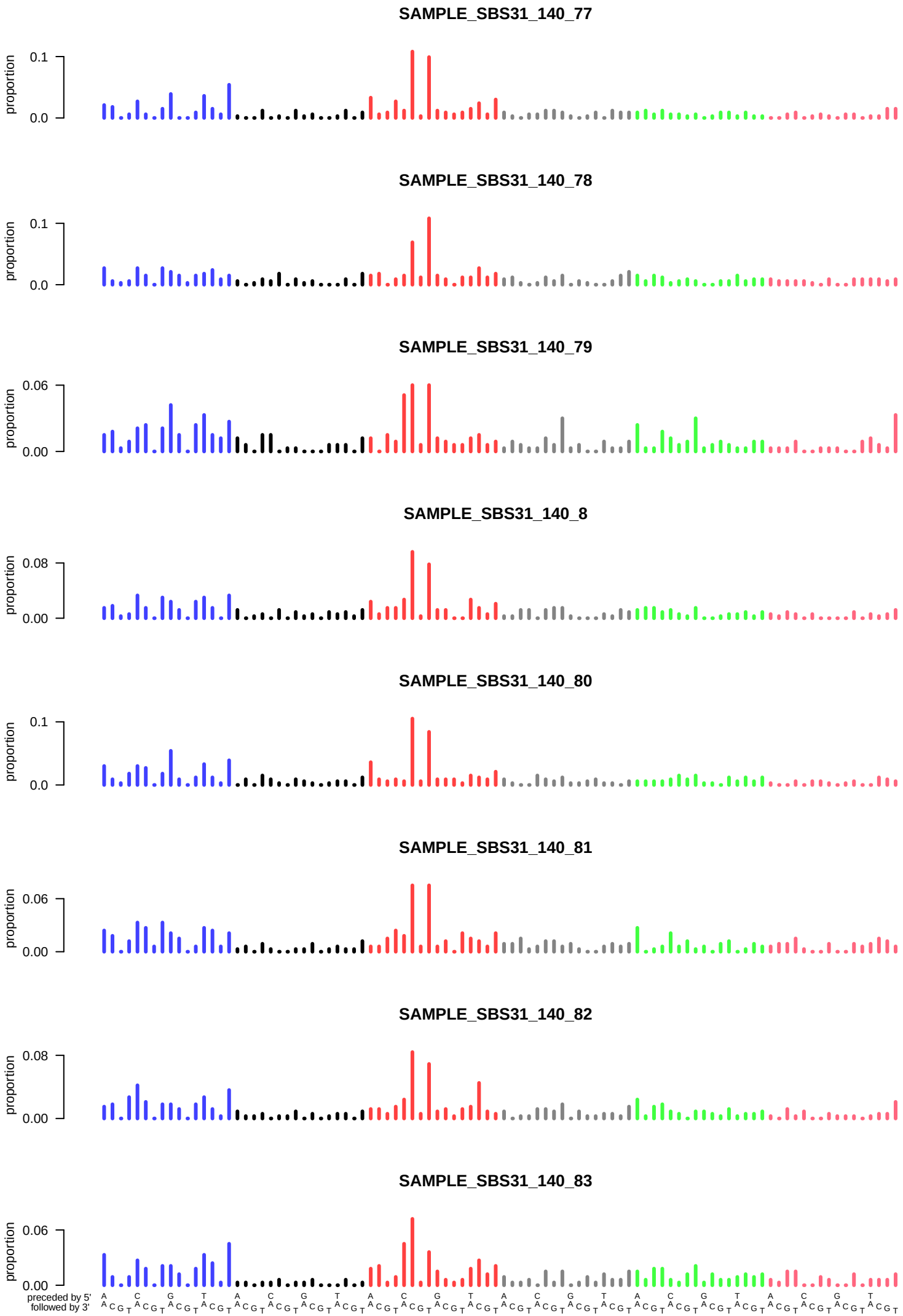
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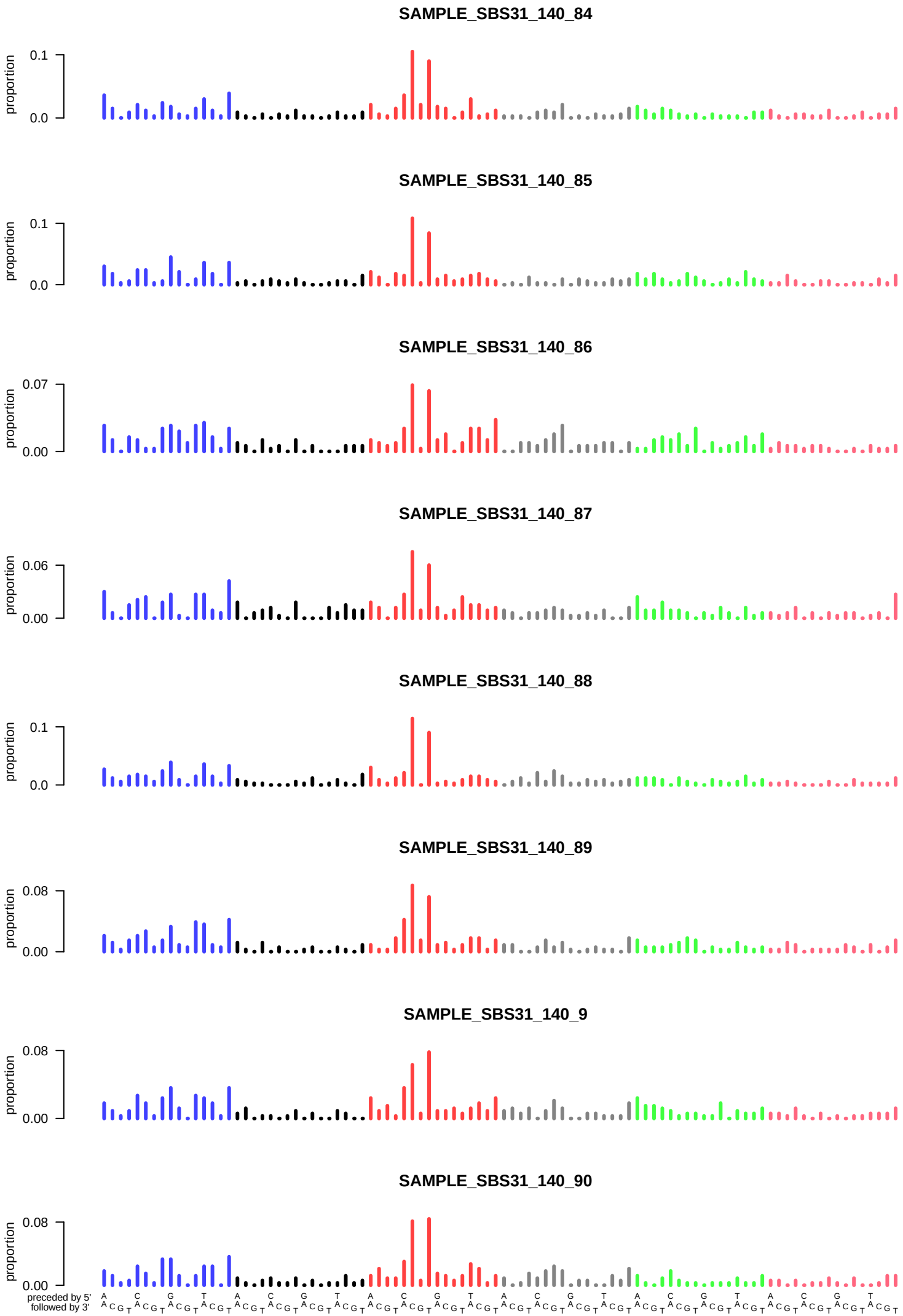
A C G T A C G T A C G T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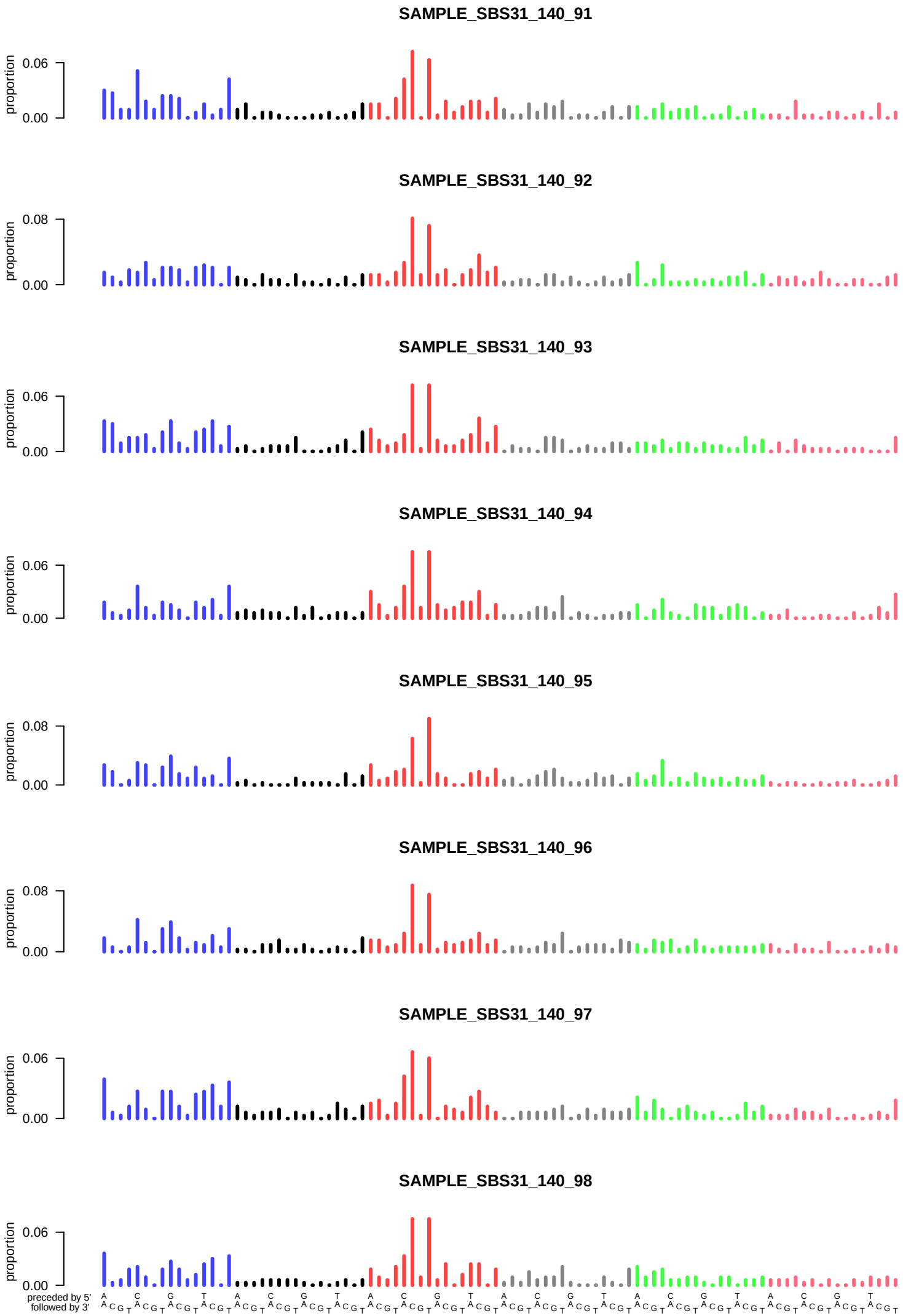
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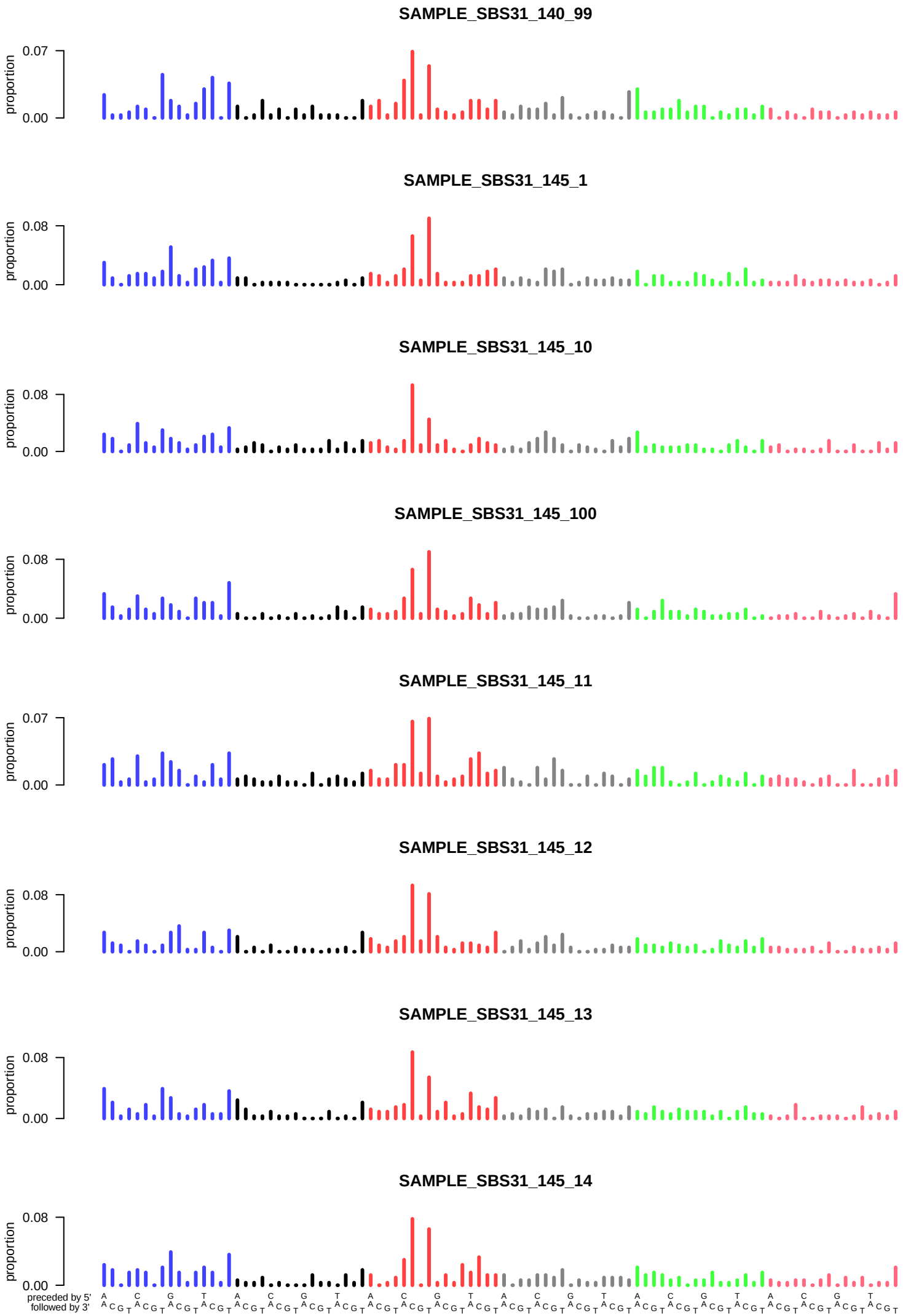
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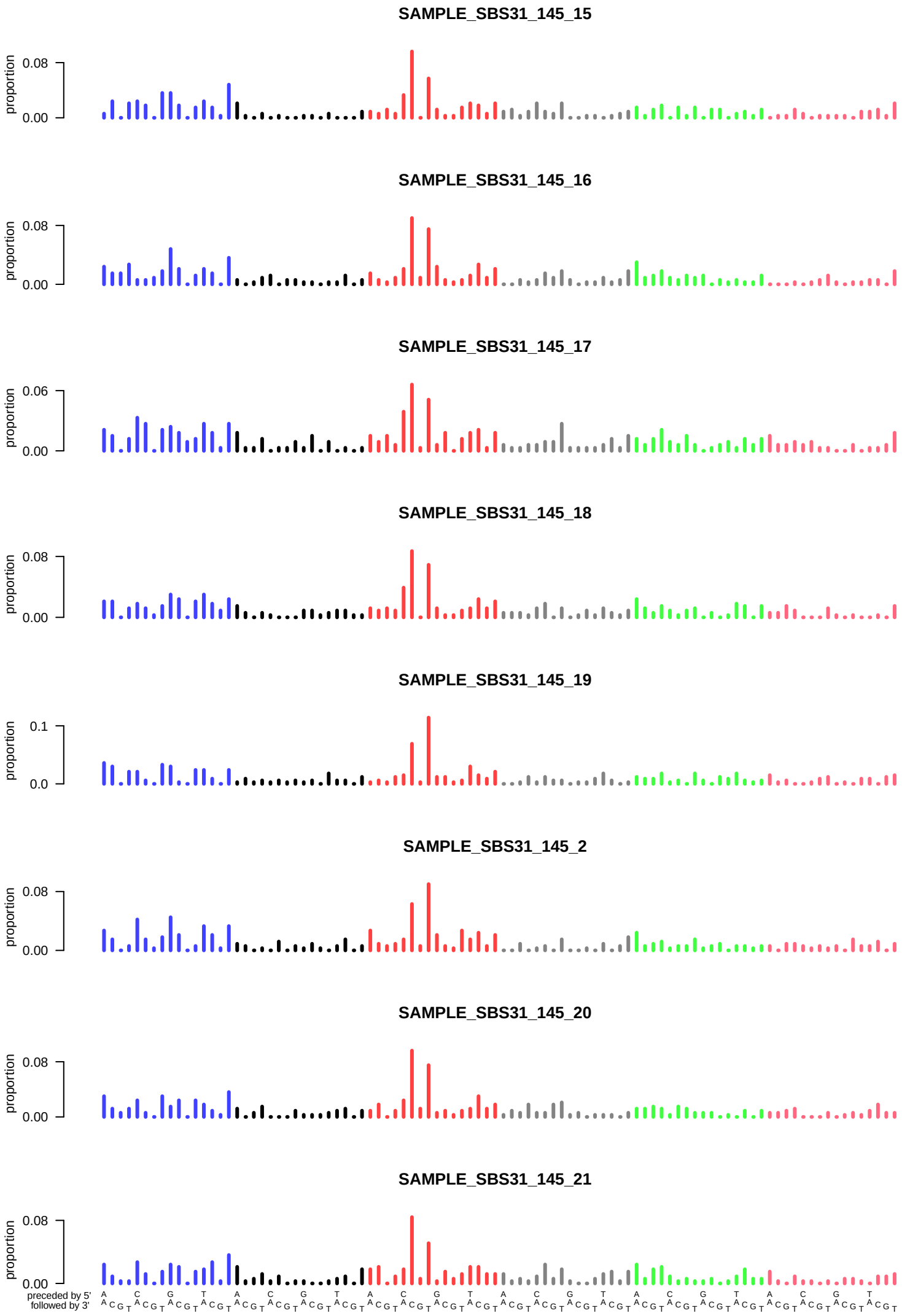
A C G T A C G T A C G T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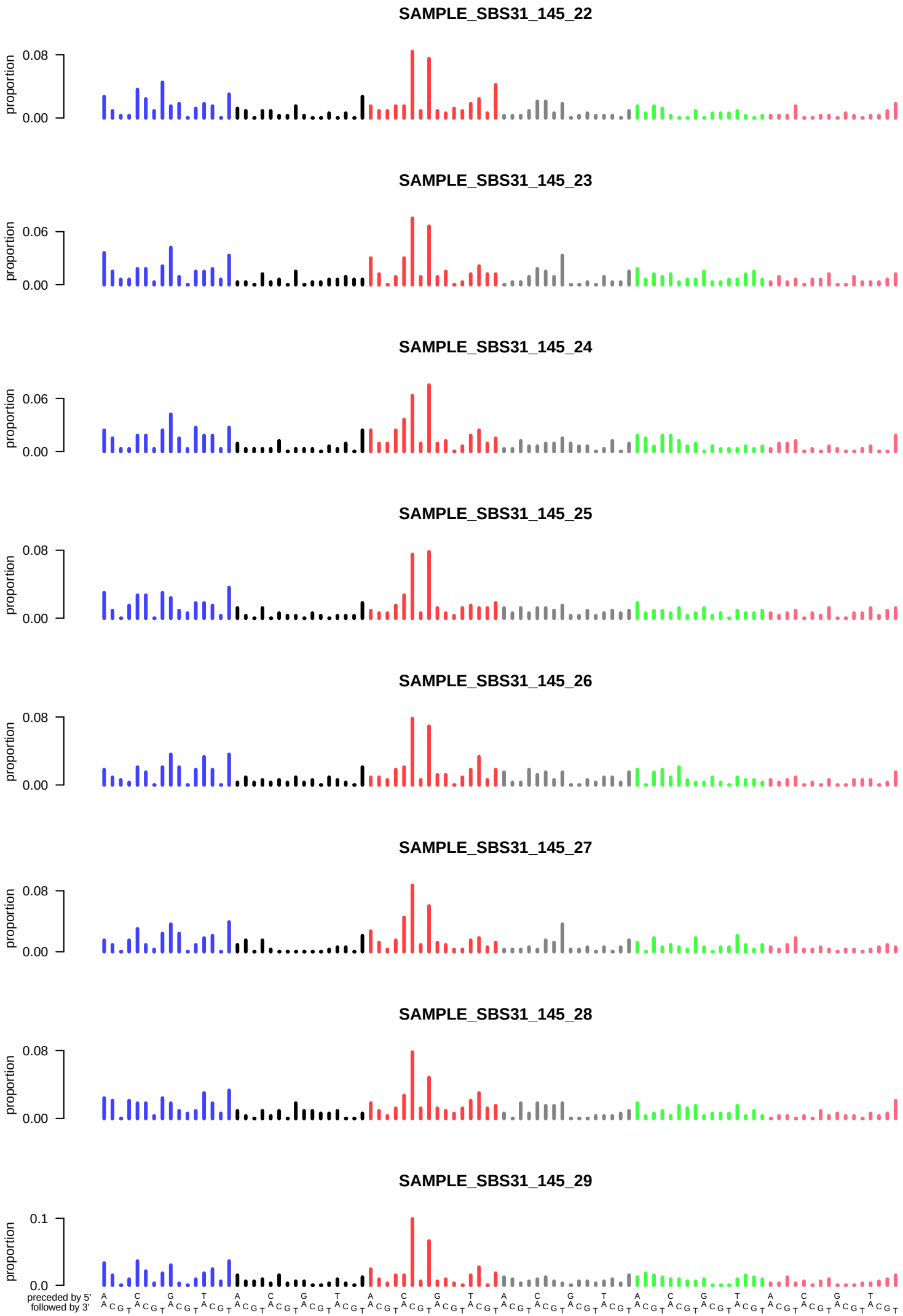
followed by 3'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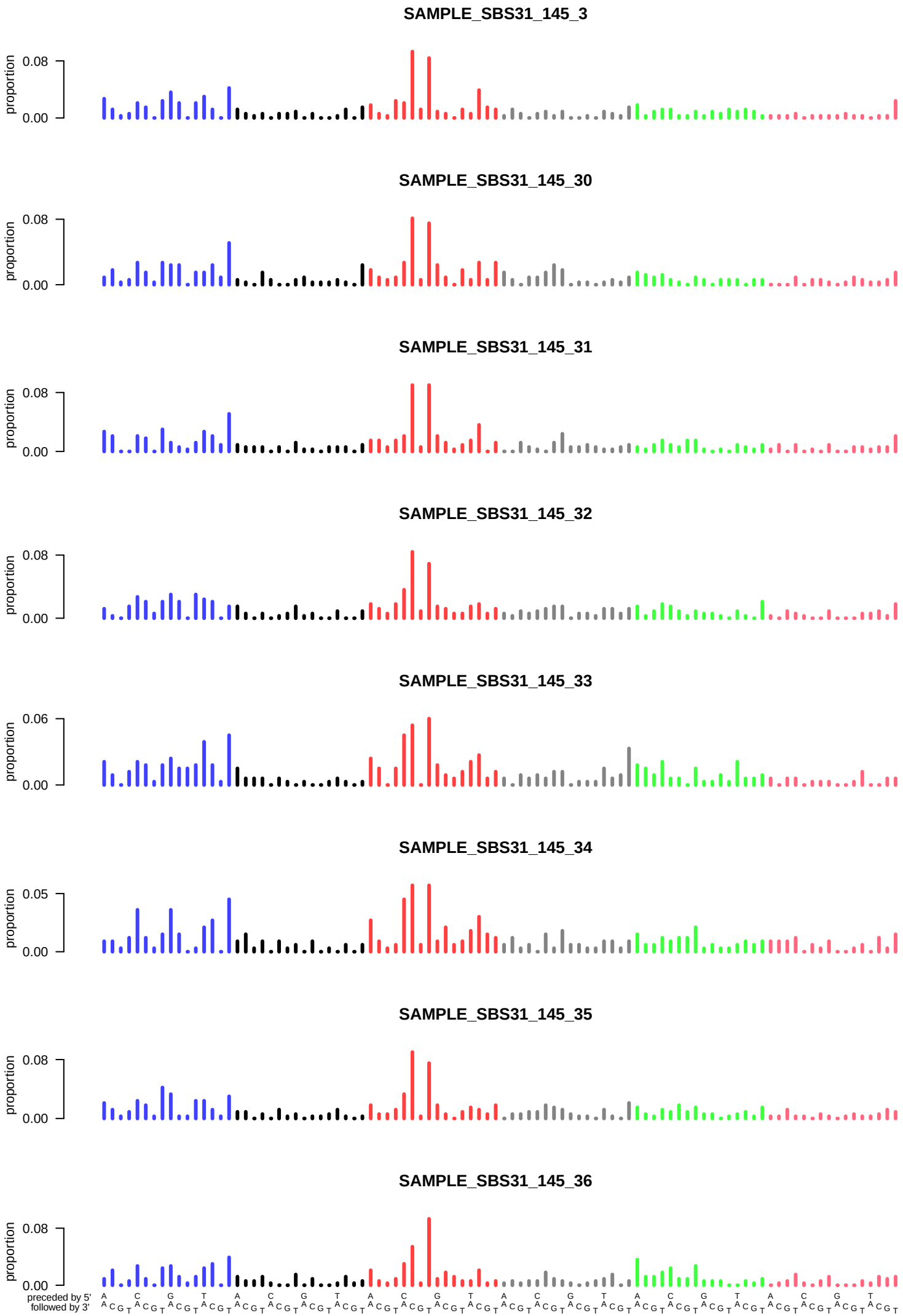
preceded by 5'
followed by 3'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SAMPLE_SBS31_145_32
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SAMPLE_SBS31_145_34
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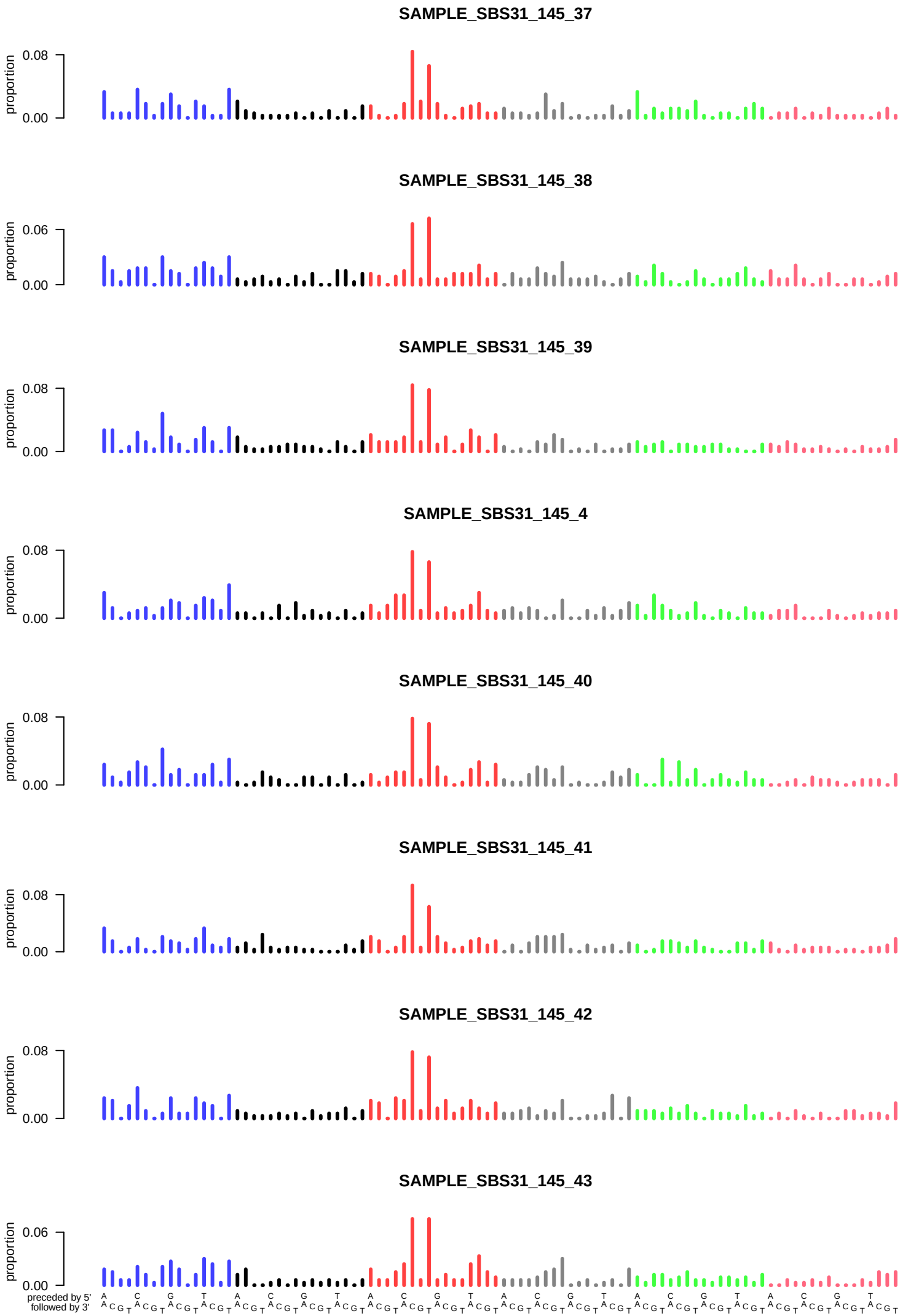
followed by 3'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SAMPLE_SBS31_145_40
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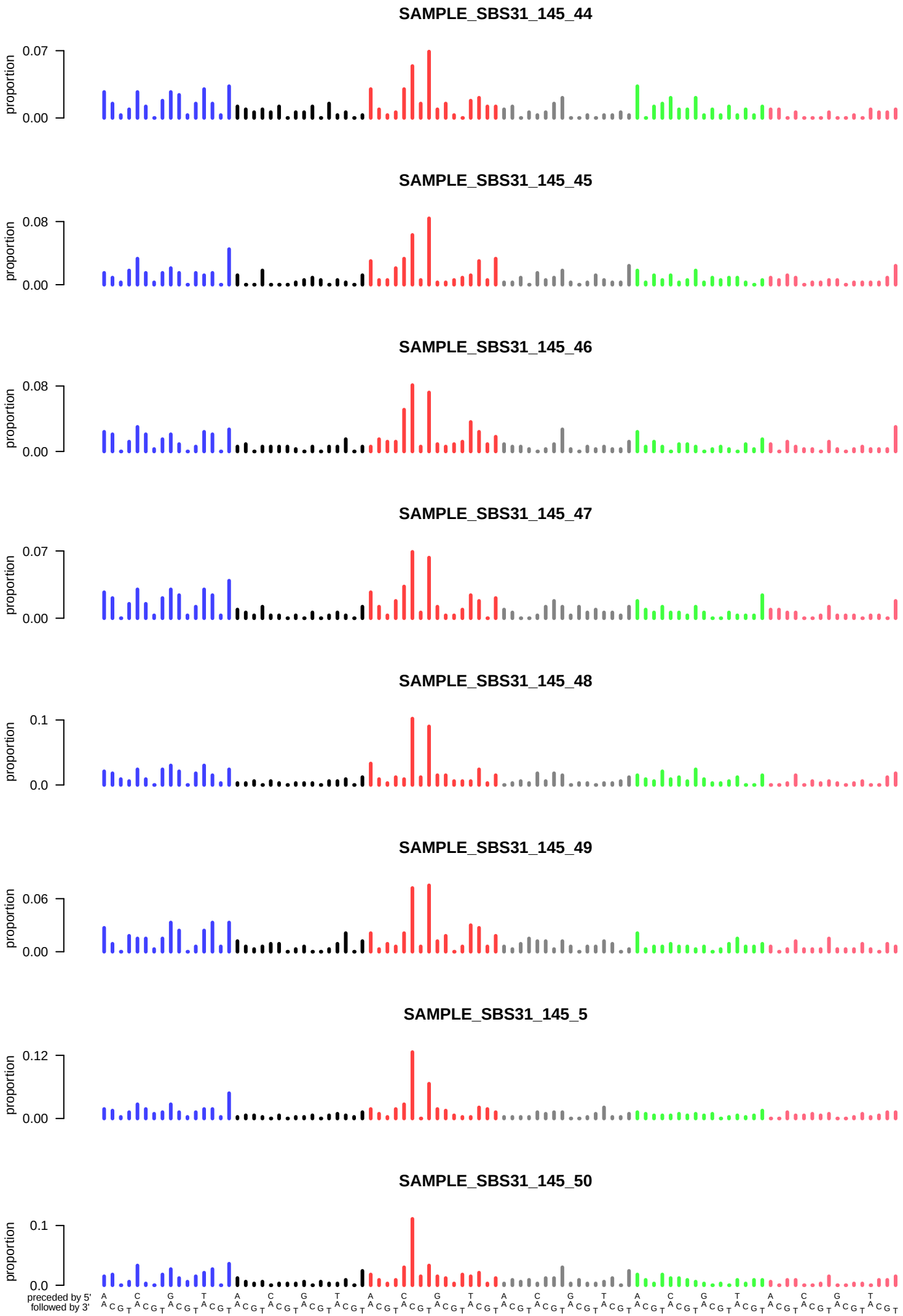
preceded by 5'
followed by 3'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SAMPLE_SBS31_145_49
proportion
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SAMPLE_SBS31_145_5
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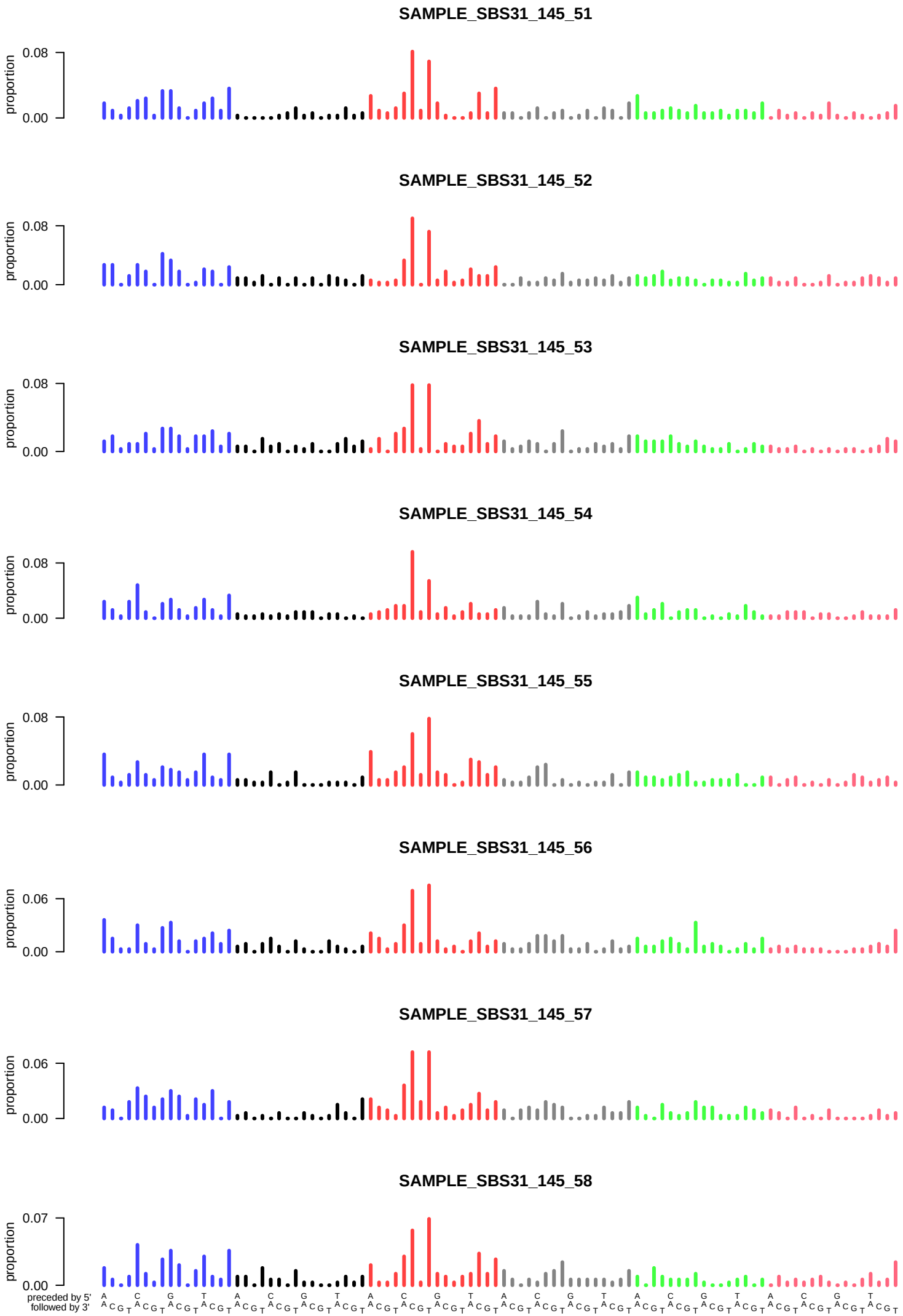
preceded by 5'
followed by 3'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proportion
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SAMPLE_SBS31_145_57
proportion
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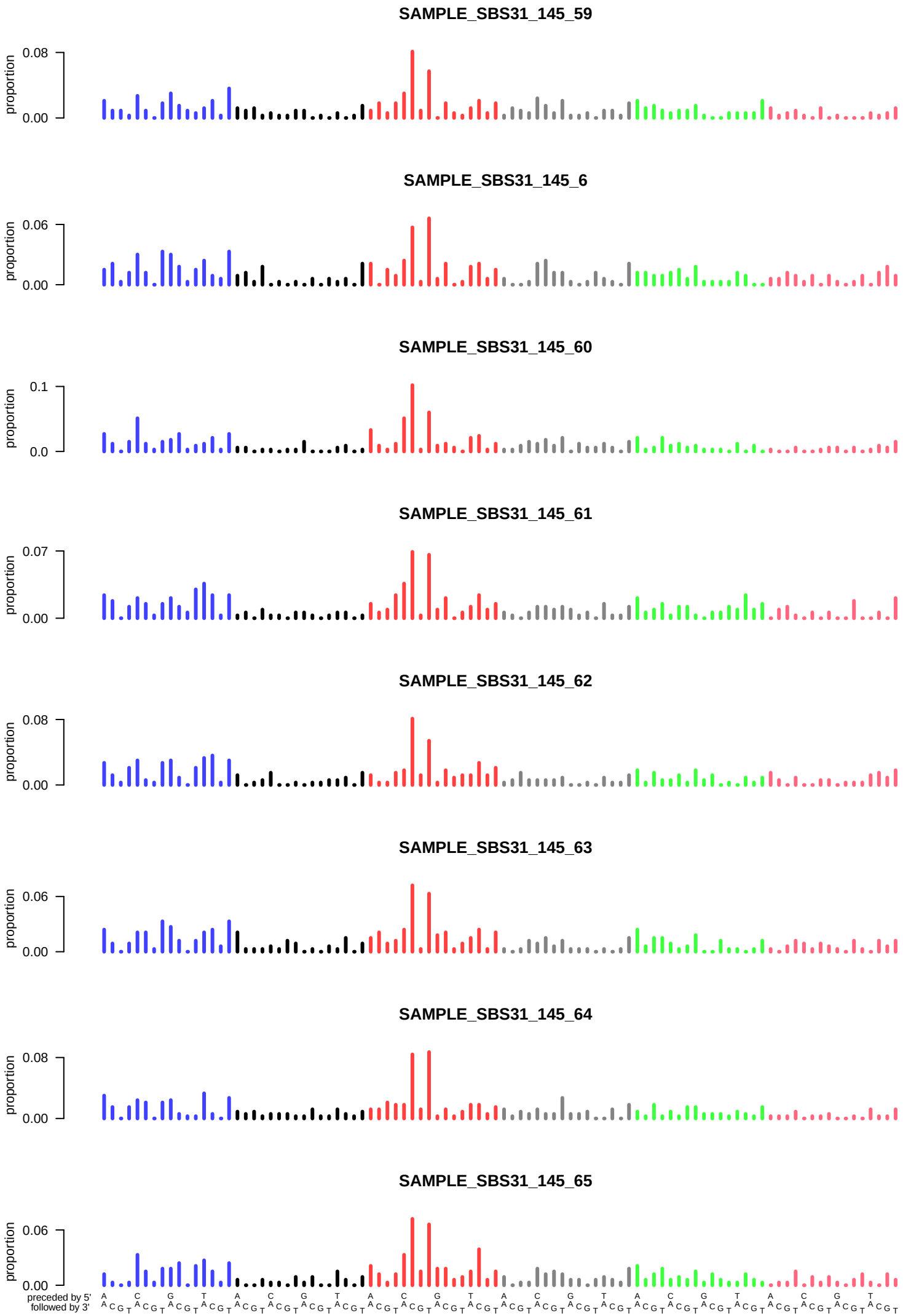
preceded by 5'
followed by 3'
A C G T A C G T A C G T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proportion
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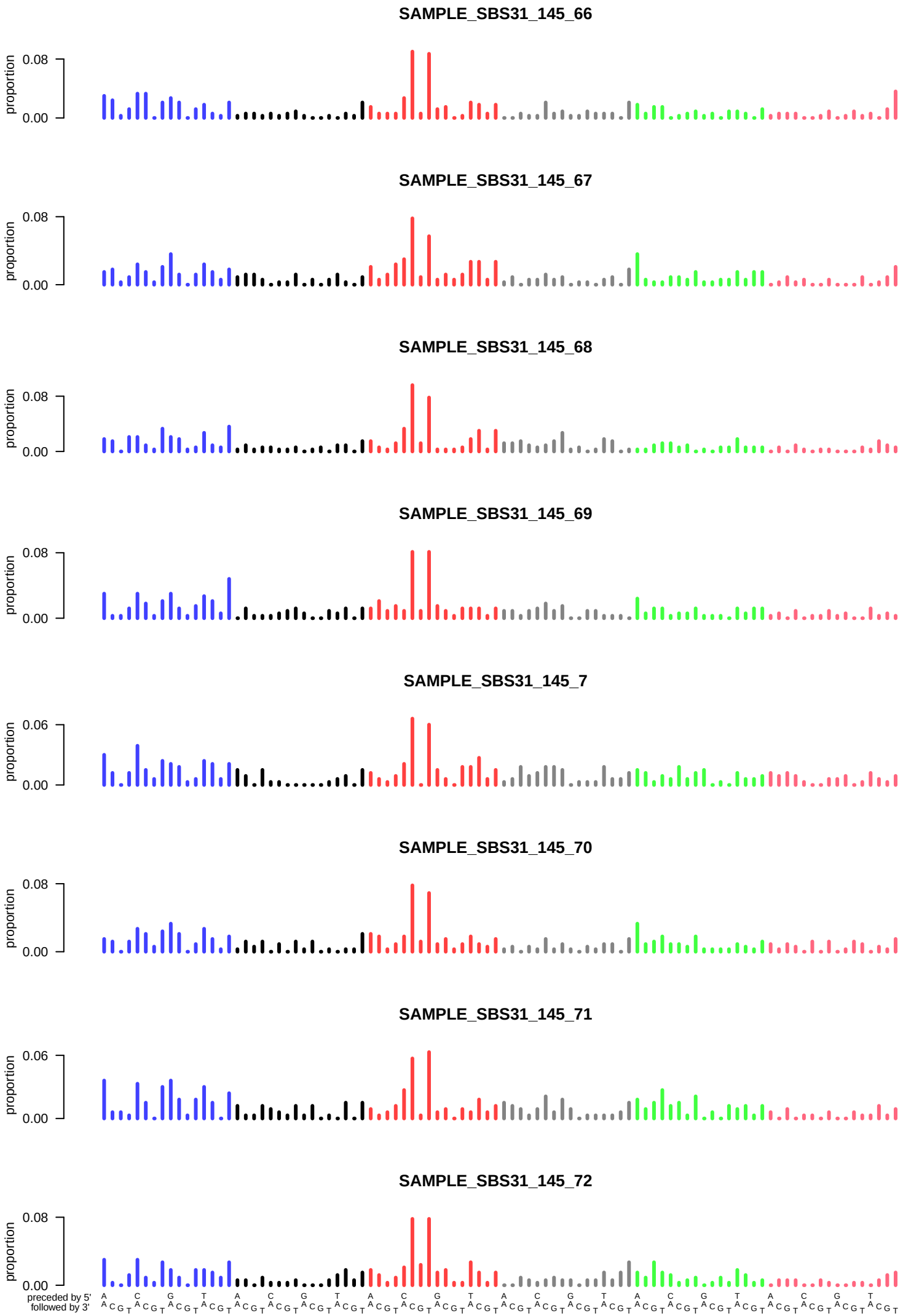
preceded by 5'
followed by 3'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SAMPLE_SBS31_145_69
SAMPLE_SBS31_145_7
SAMPLE_SBS31_145_70
SAMPLE_SBS31_145_71
SAMPLE_SBS31_145_72
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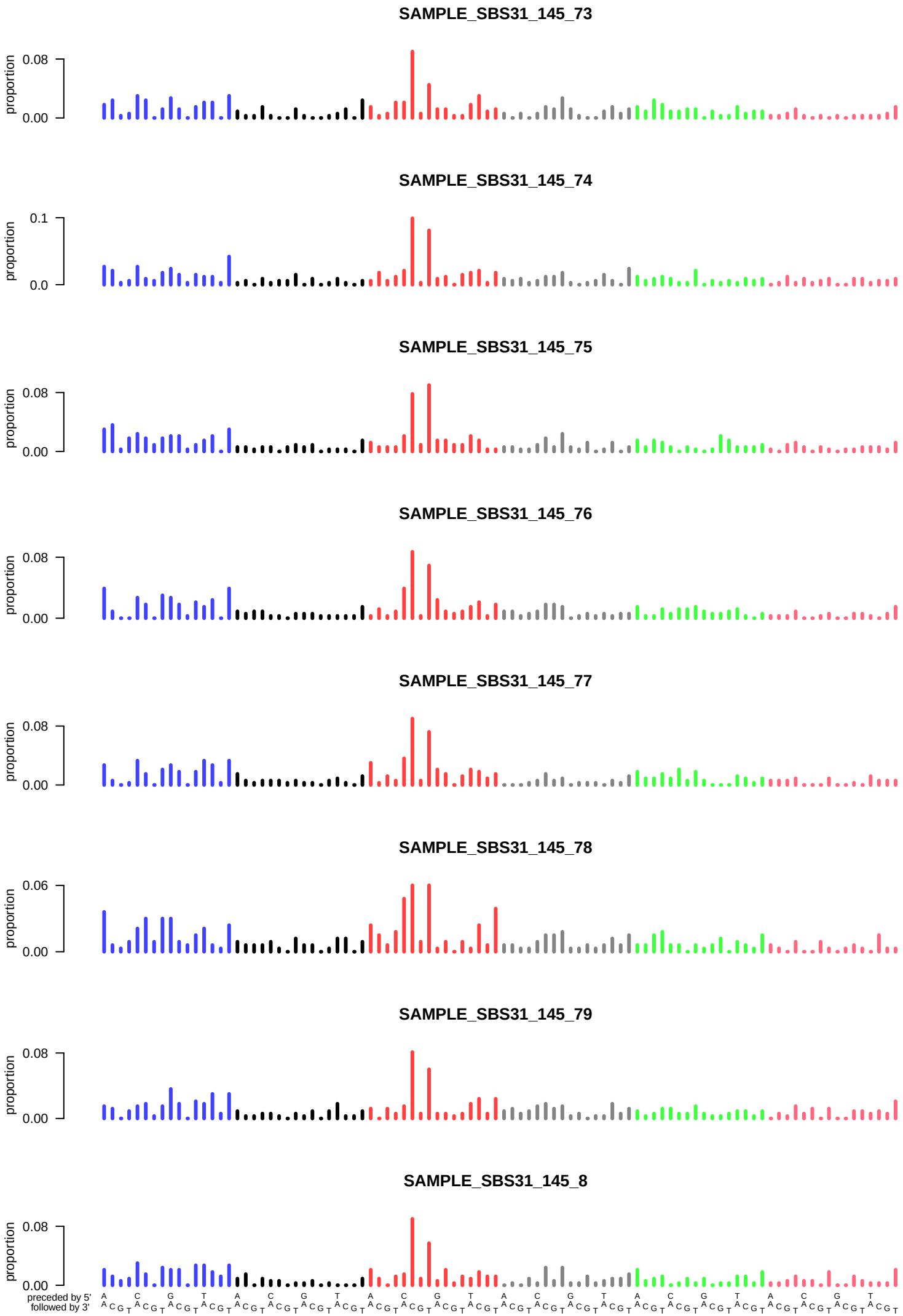
preceded by 5'
followed by 3'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proportion
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SAMPLE_SBS31_145_76
proportion
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SAMPLE_SBS31_145_77
proportion
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SAMPLE_SBS31_145_78
proportion
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0.00
SAMPLE_SBS31_145_79
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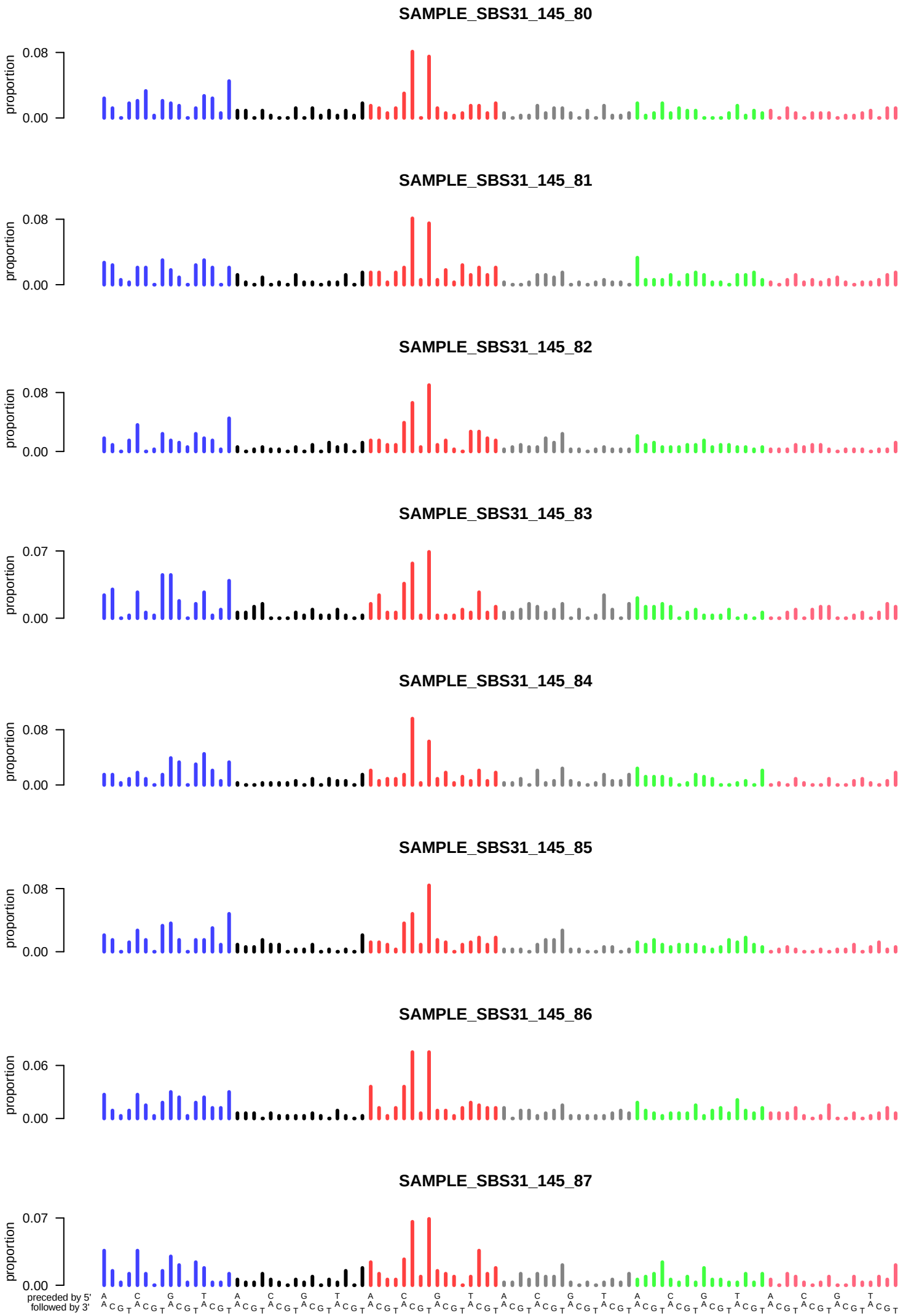
0.00
preceded by 5'
followed by 3'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SAMPLE_SBS31_145_85
proportion
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SAMPLE_SBS31_145_86
proportion
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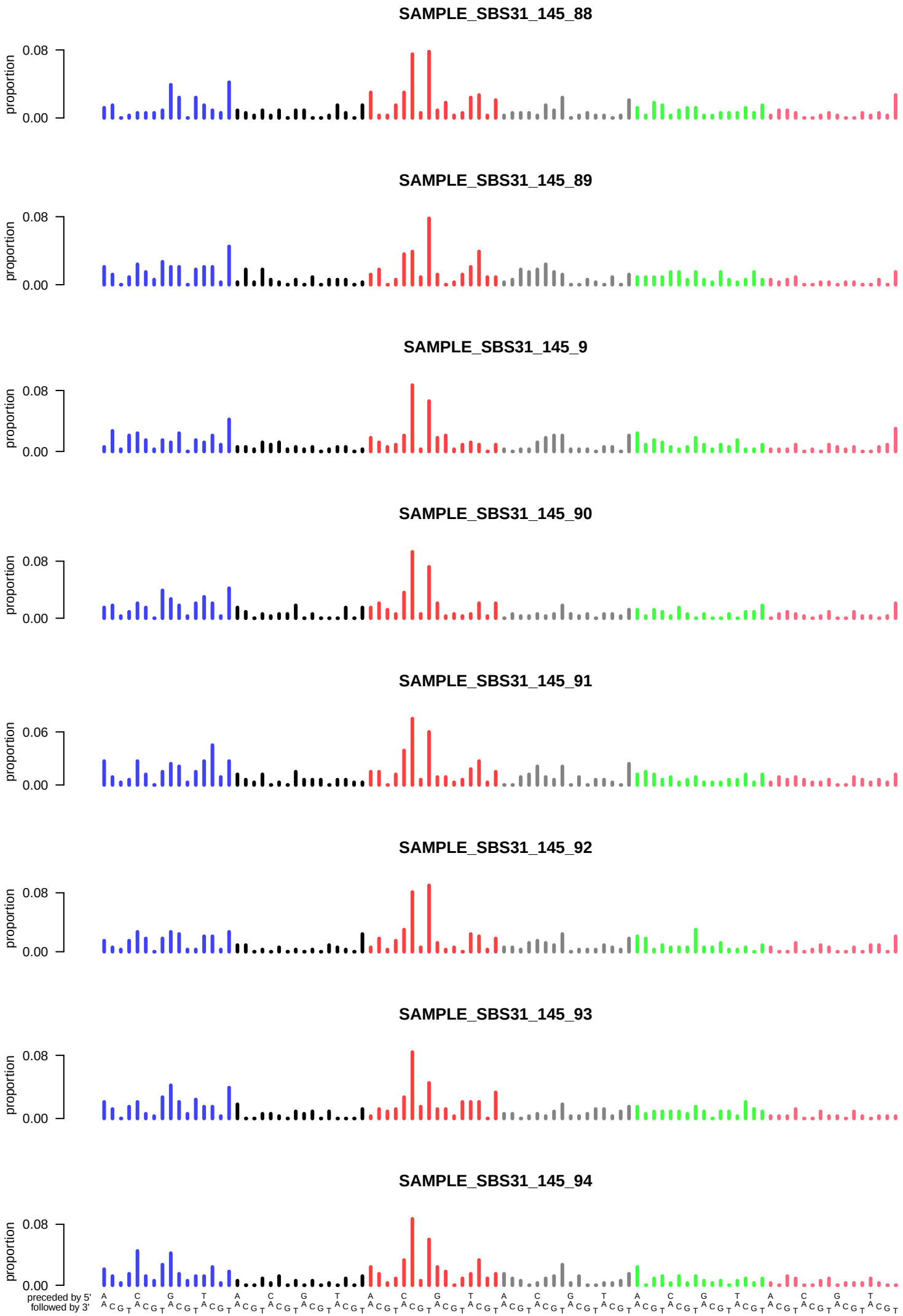
preceded by 5'
followed by 3'
A C G T A C G T A C G T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SAMPLE_SBS31_145_91
SAMPLE_SBS31_145_92
SAMPLE_SBS31_145_93
SAMPLE_SBS31_145_94
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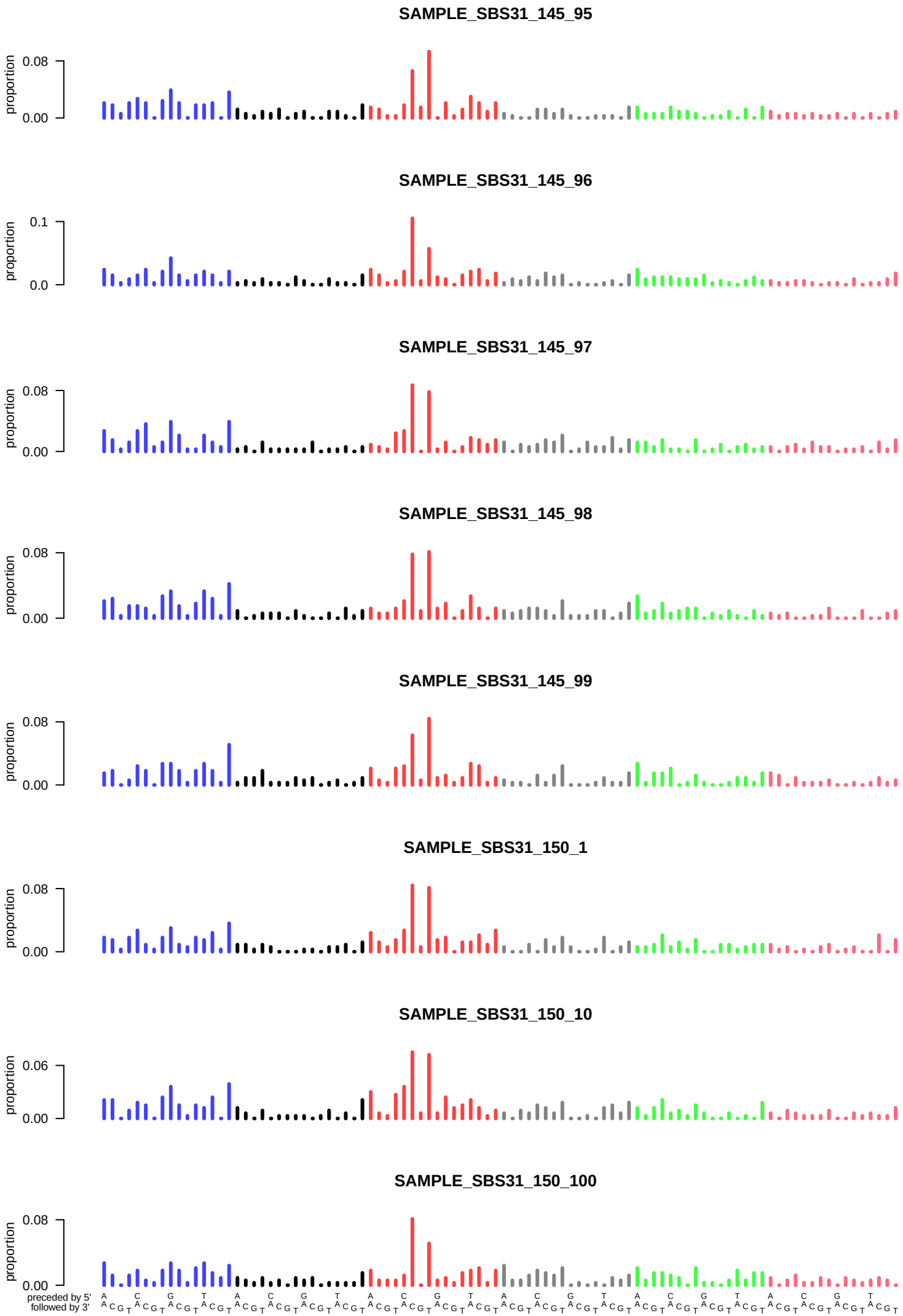
preceded by 5'
followed by 3'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SAMPLE_SBS31_145_99
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SAMPLE_SBS31_150_1
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SAMPLE_SBS31_150_10
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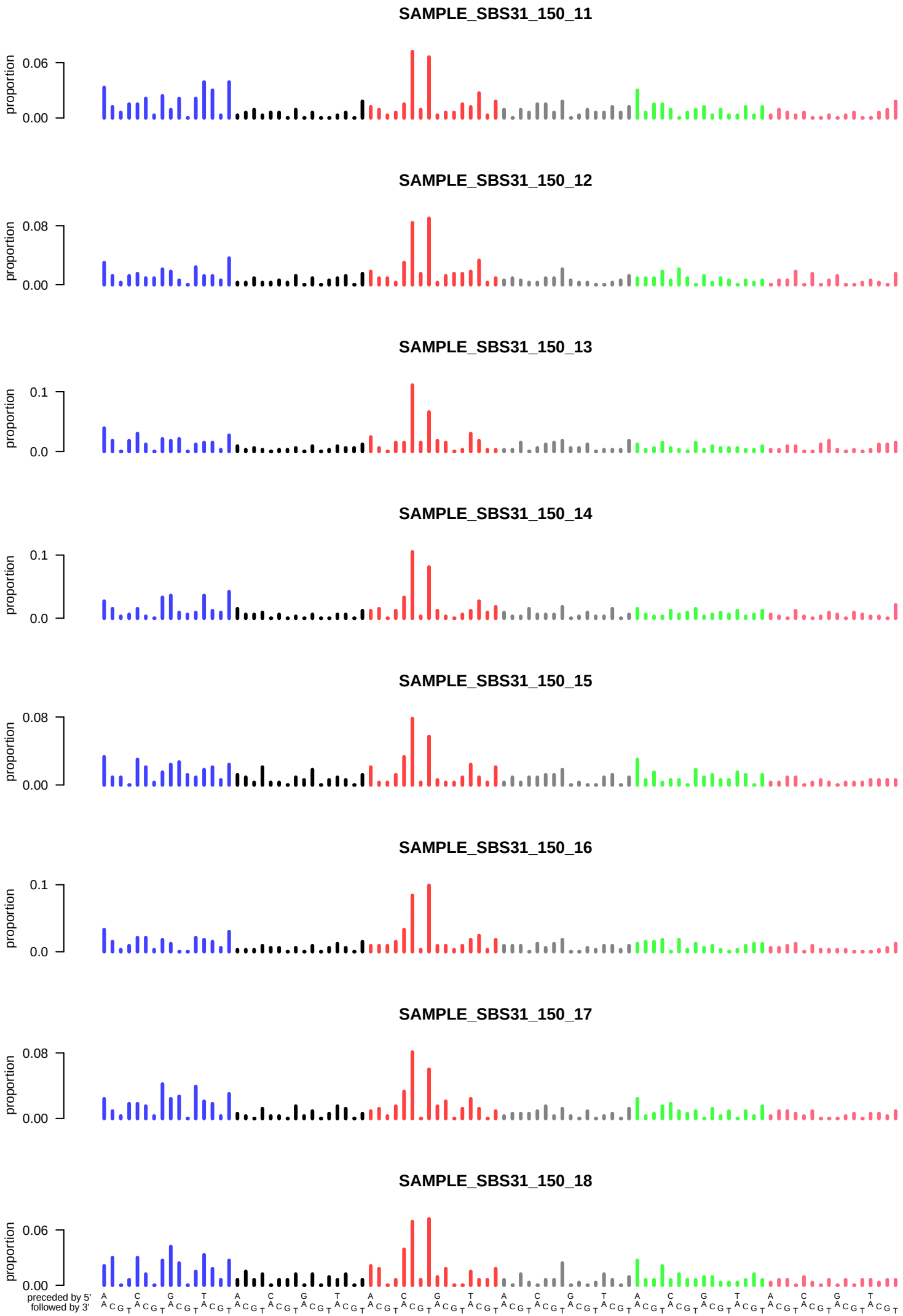
preceded by 5'
followed by 3'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SAMPLE_SBS31_150_14
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SAMPLE_SBS31_150_15
proportion
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SAMPLE_SBS31_150_16
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SAMPLE_SBS31_150_17
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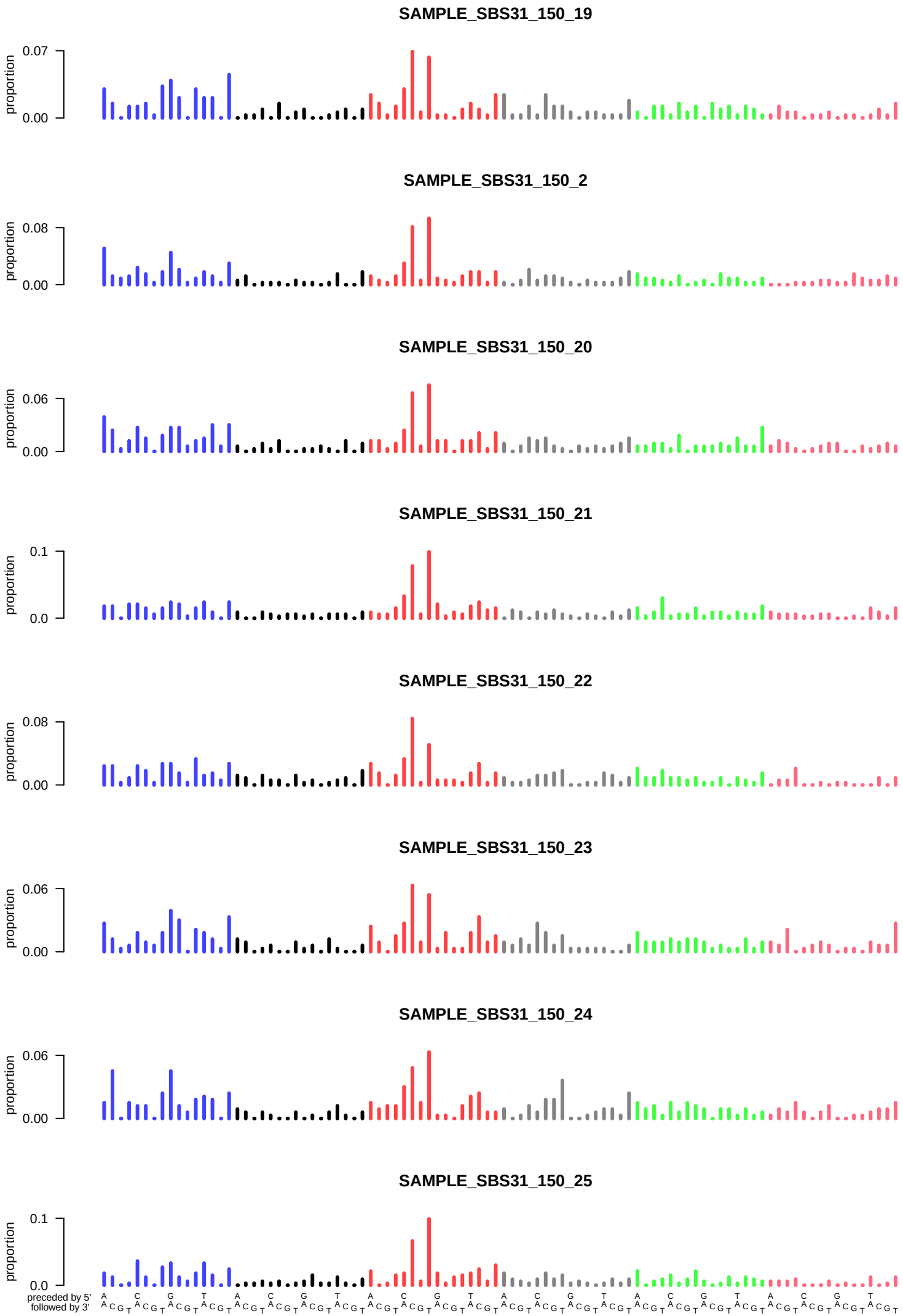
preceded by 5'
followed by 3'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SAMPLE_SBS31_150_21
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SAMPLE_SBS31_150_22
proportion
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SAMPLE_SBS31_150_23
proportion
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SAMPLE_SBS31_150_24
proportion
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SAMPLE_SBS31_150_25
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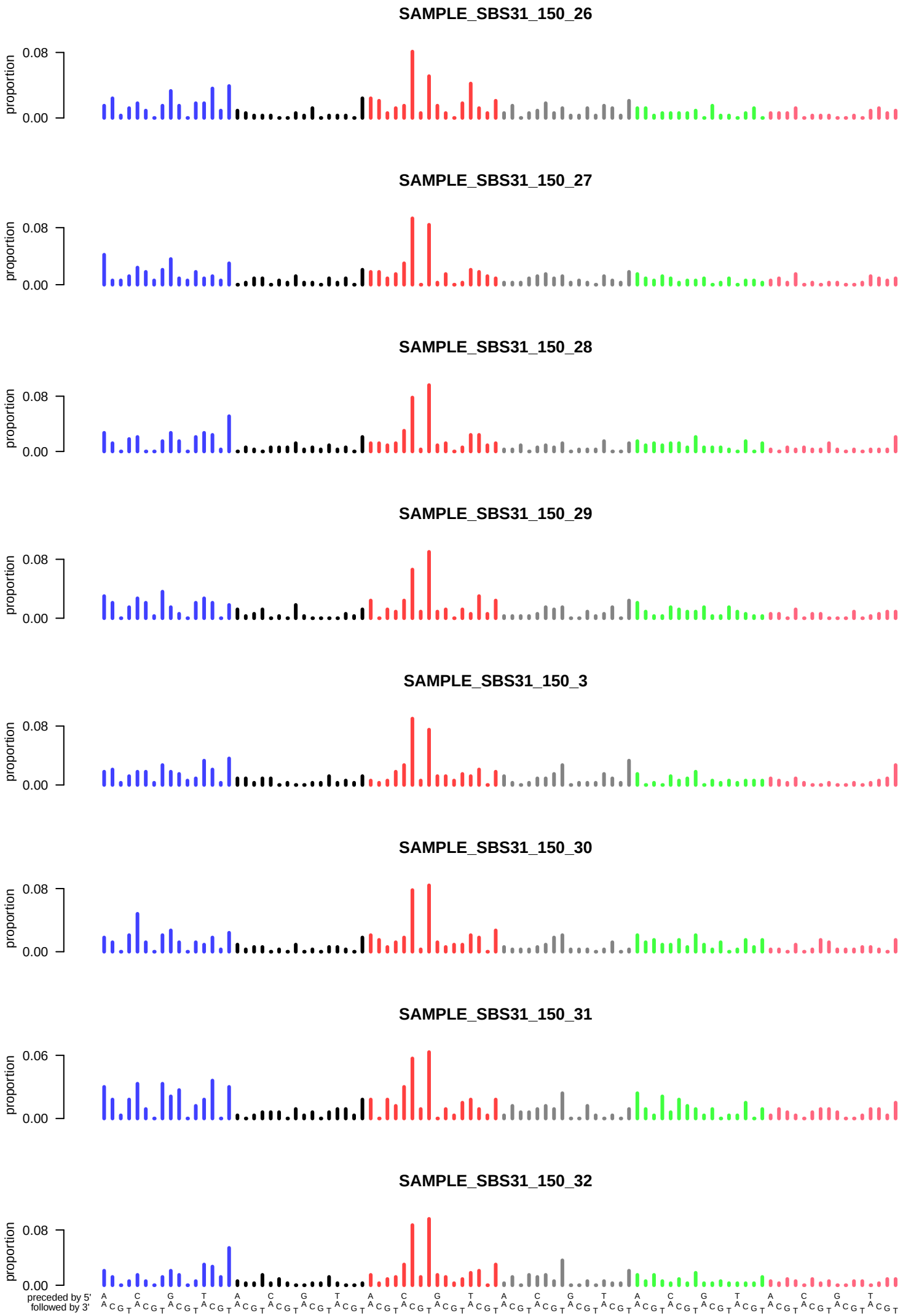
followed by 3'
A C G T A C G T A C G T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SAMPLE_SBS31_150_29
SAMPLE_SBS31_150_3
SAMPLE_SBS31_150_30
SAMPLE_SBS31_150_31
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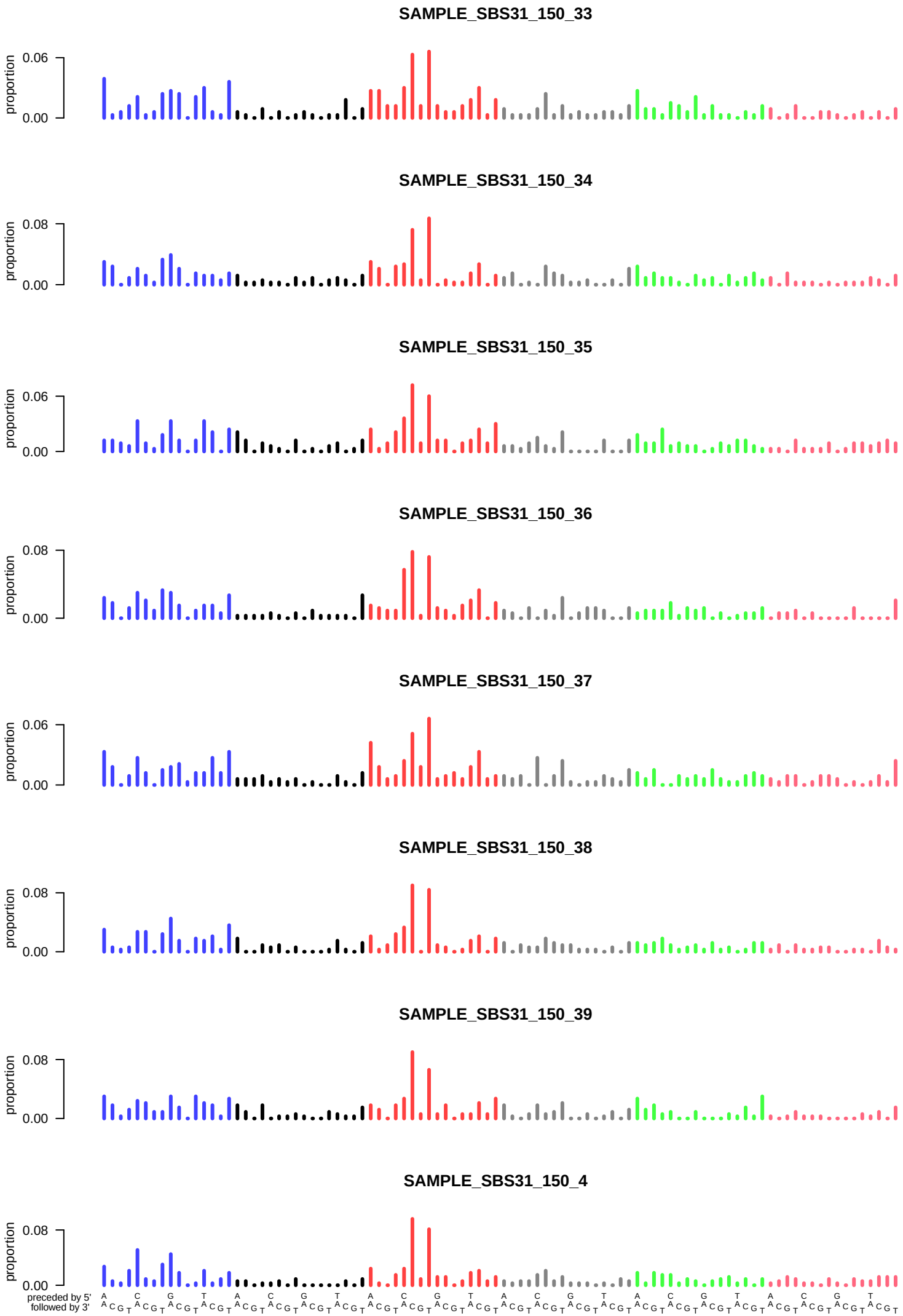
preceded by 5'
followed by 3'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SAMPLE_SBS31_150_37
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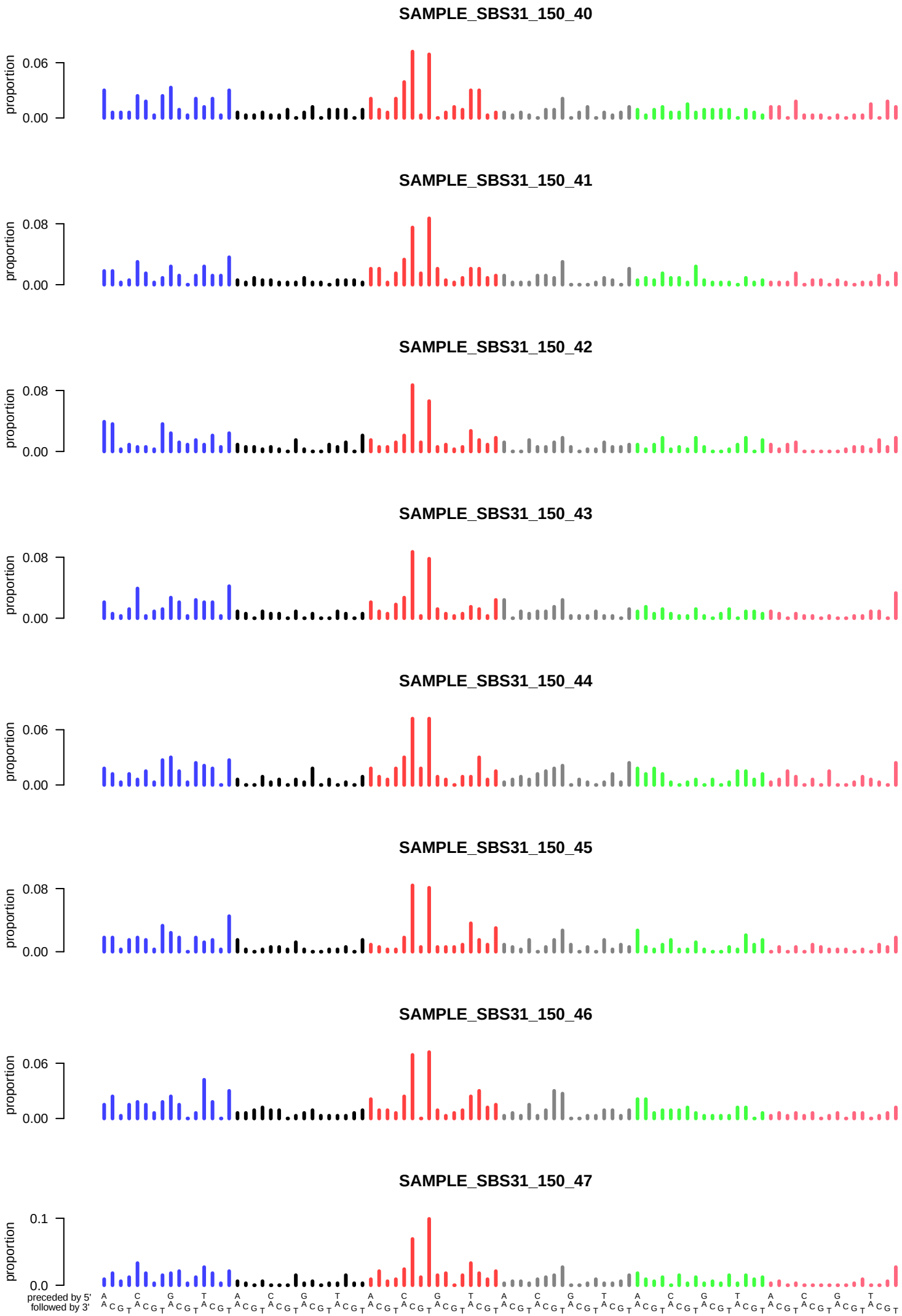
followed by 3'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SAMPLE_SBS31_150_46
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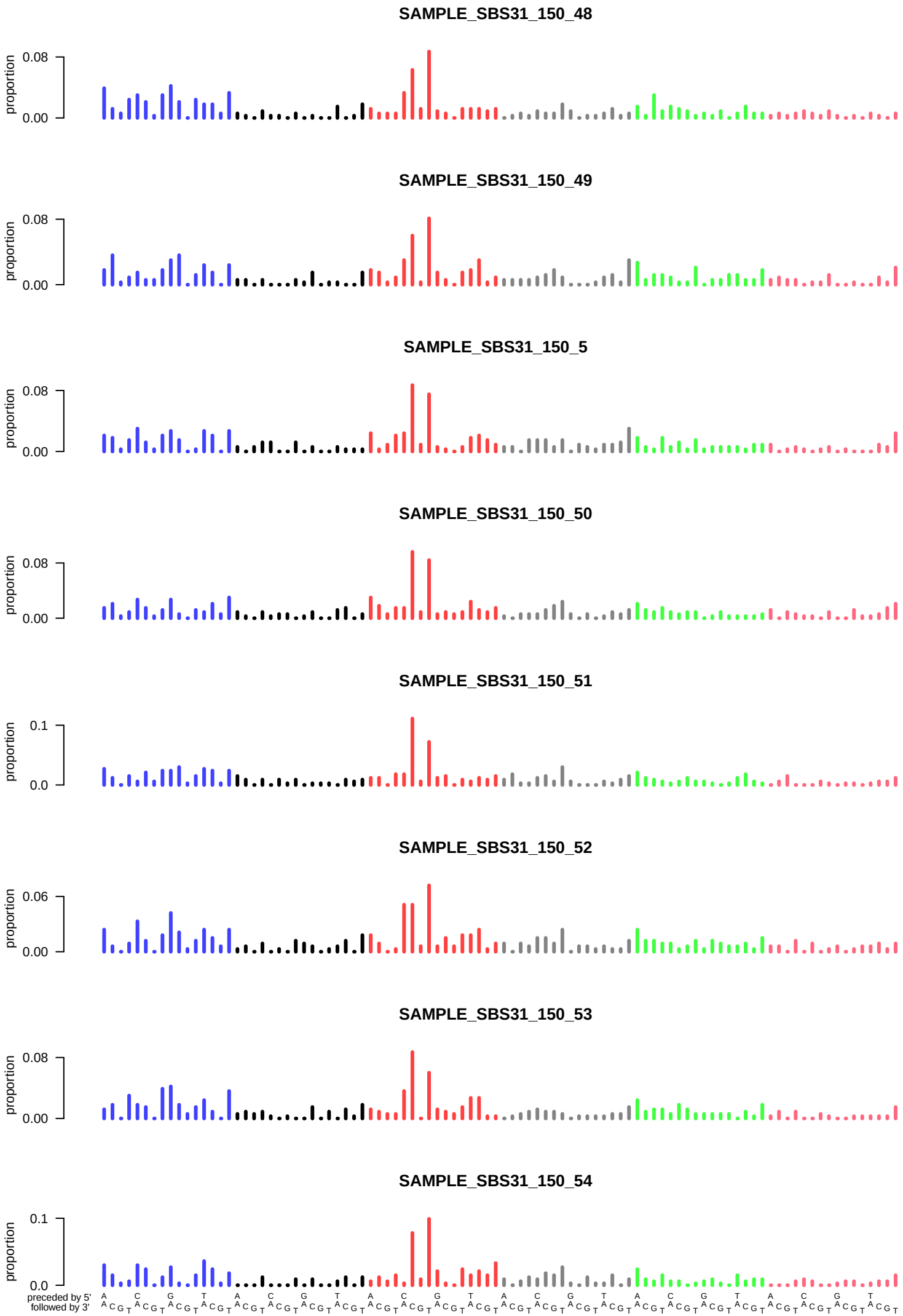
followed by 3'
A C G T A C G T A C G T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SAMPLE_SBS31_150_50
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SAMPLE_SBS31_150_54
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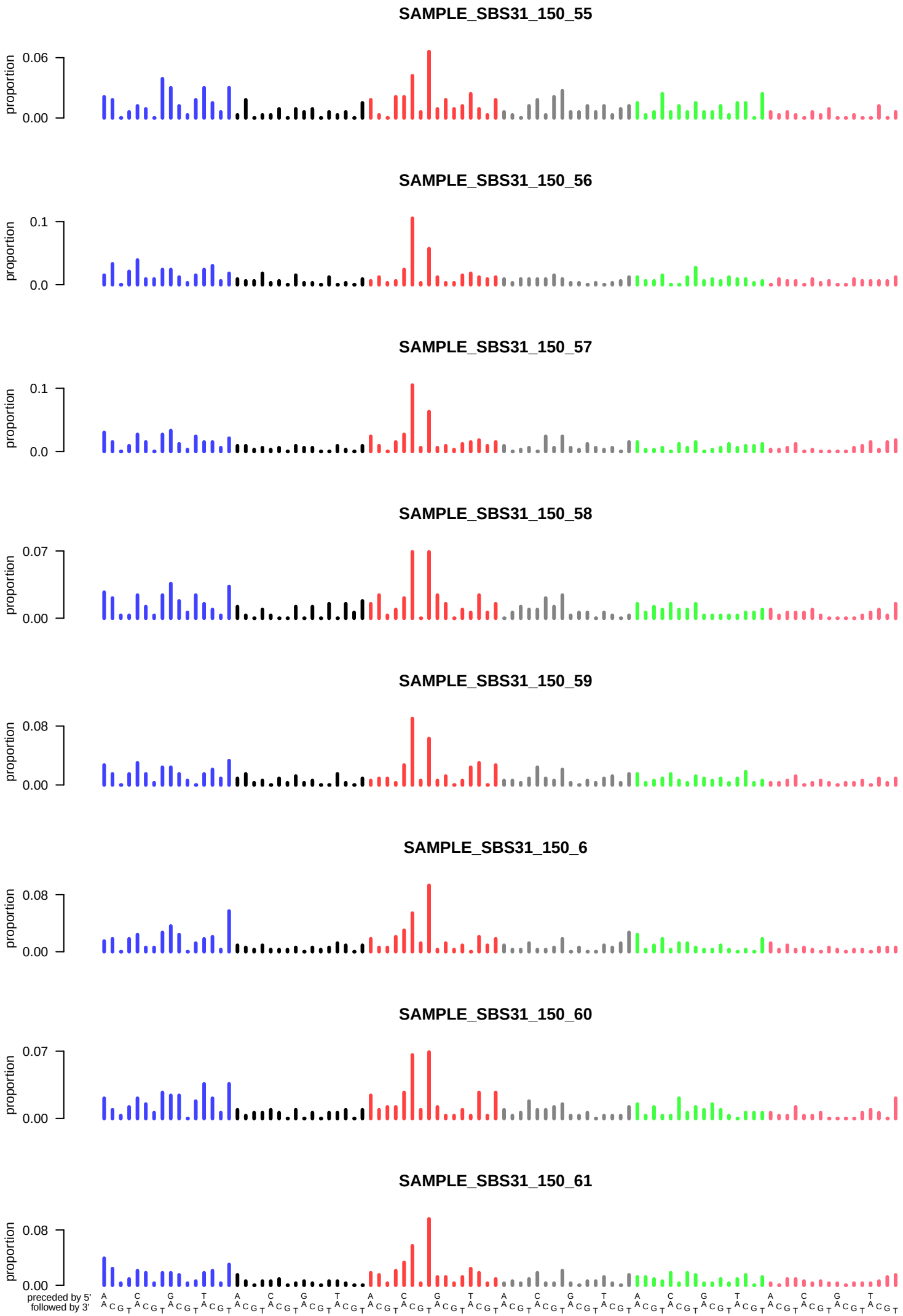
followed by 3'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proportion
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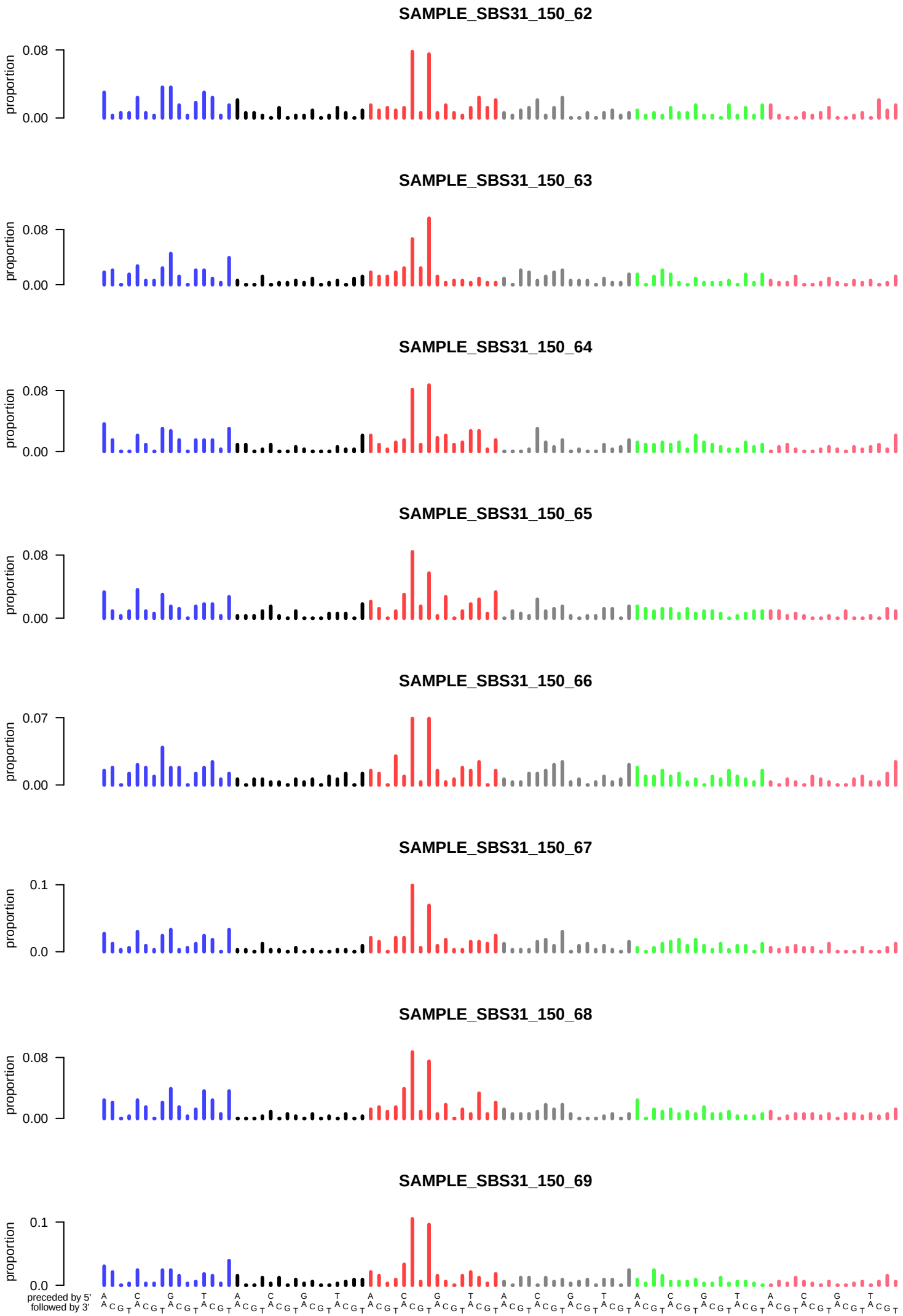
followed by 3'
A C G T A C G T A C G T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followed by 3'
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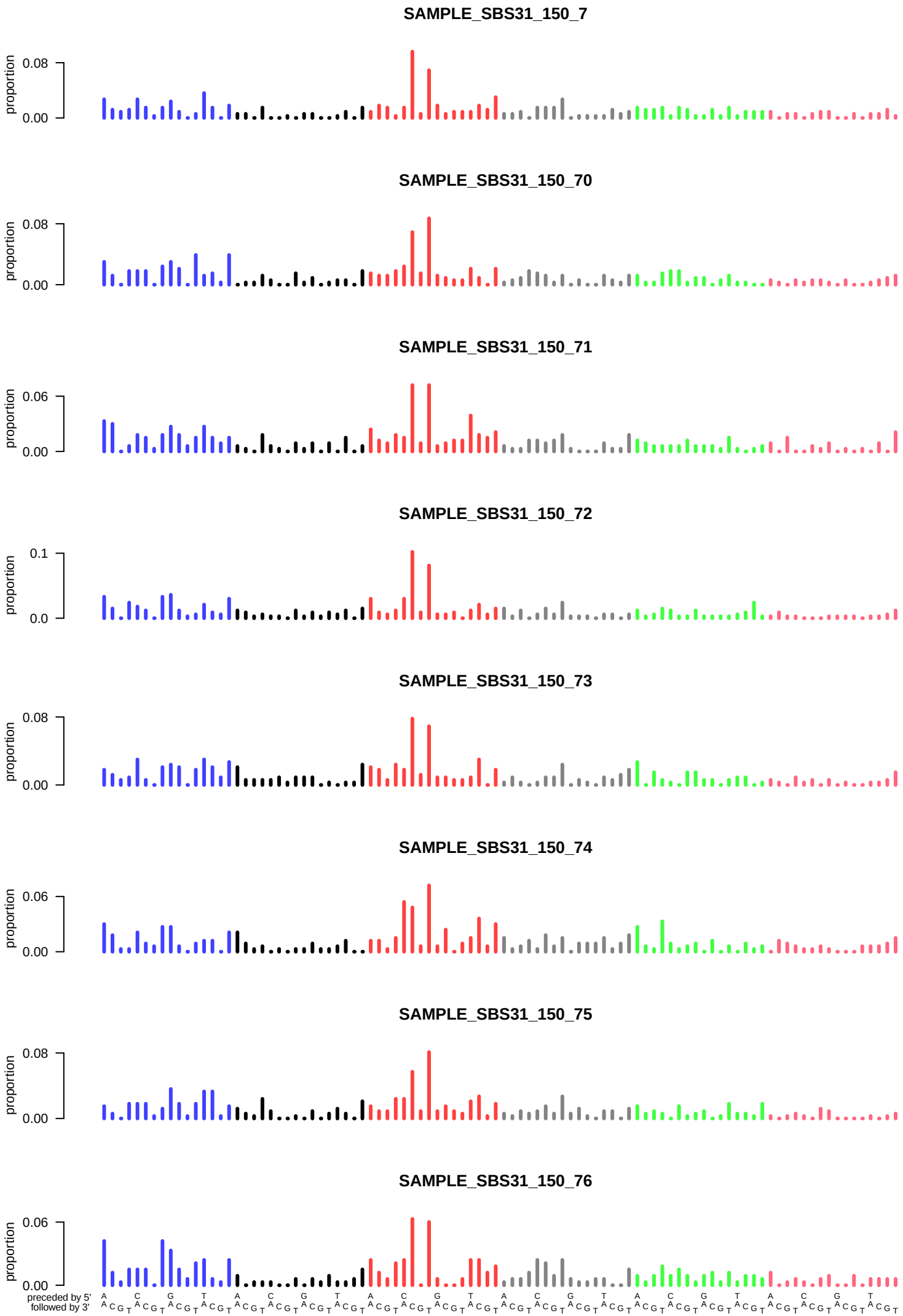
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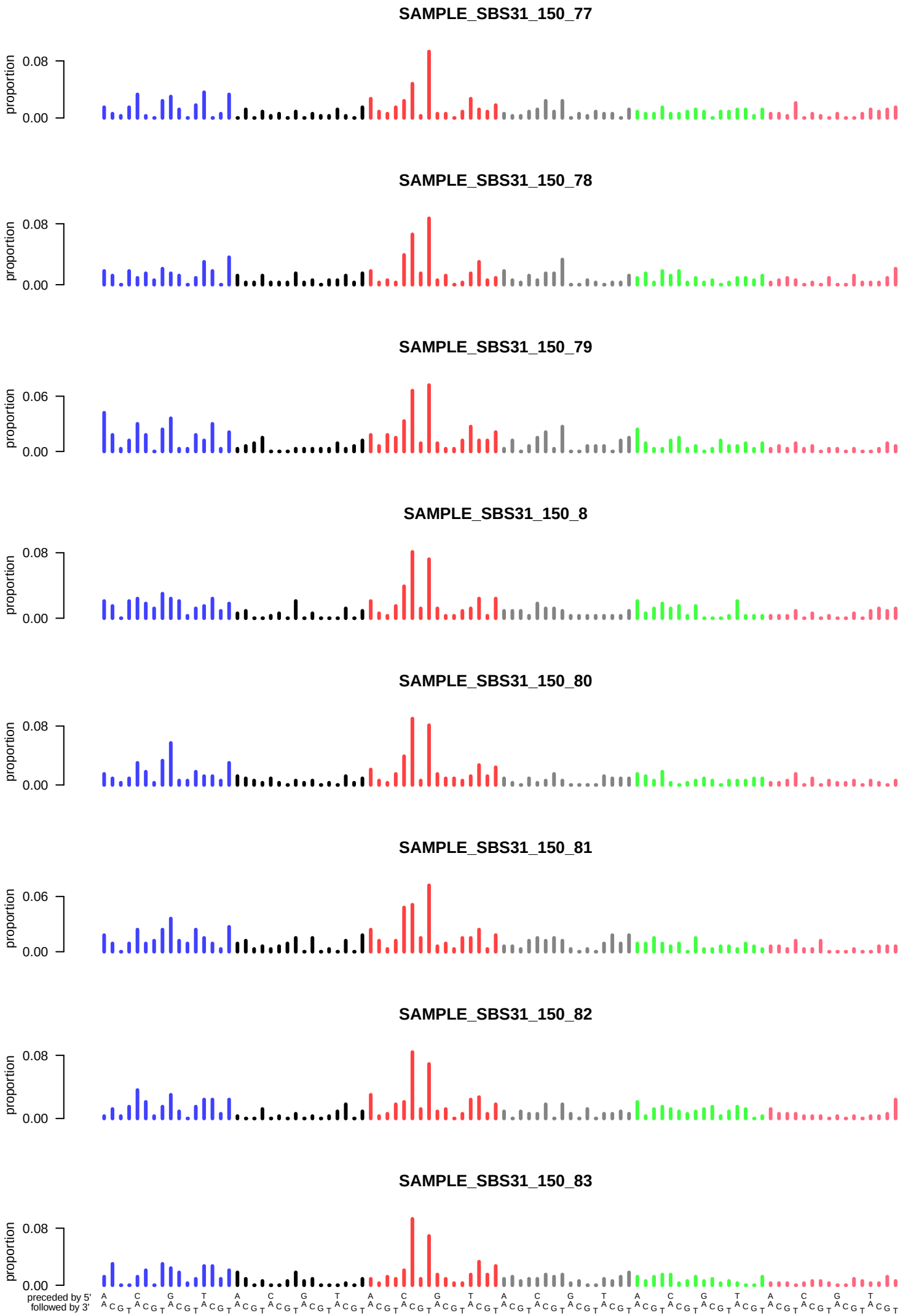
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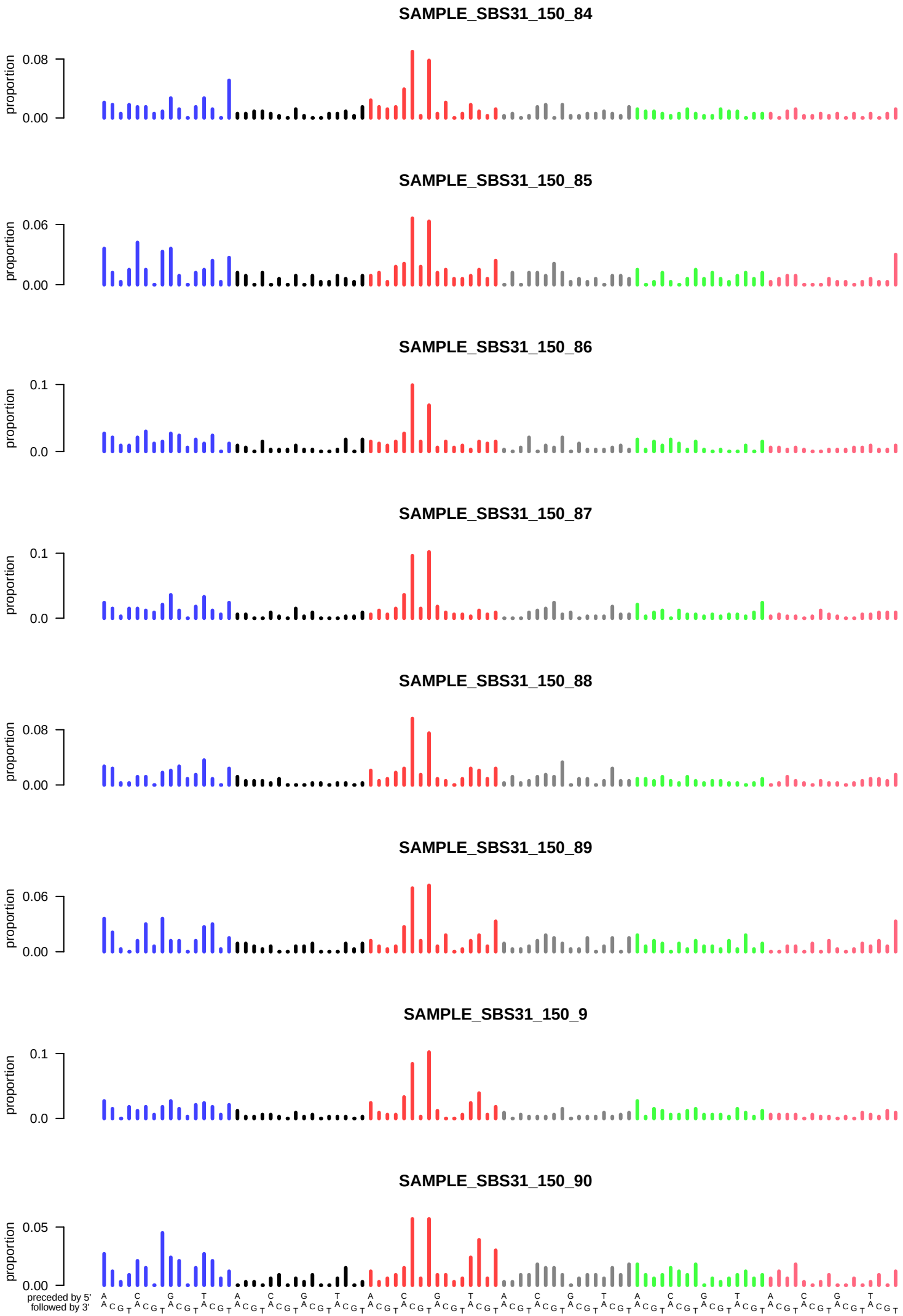
followed by 3'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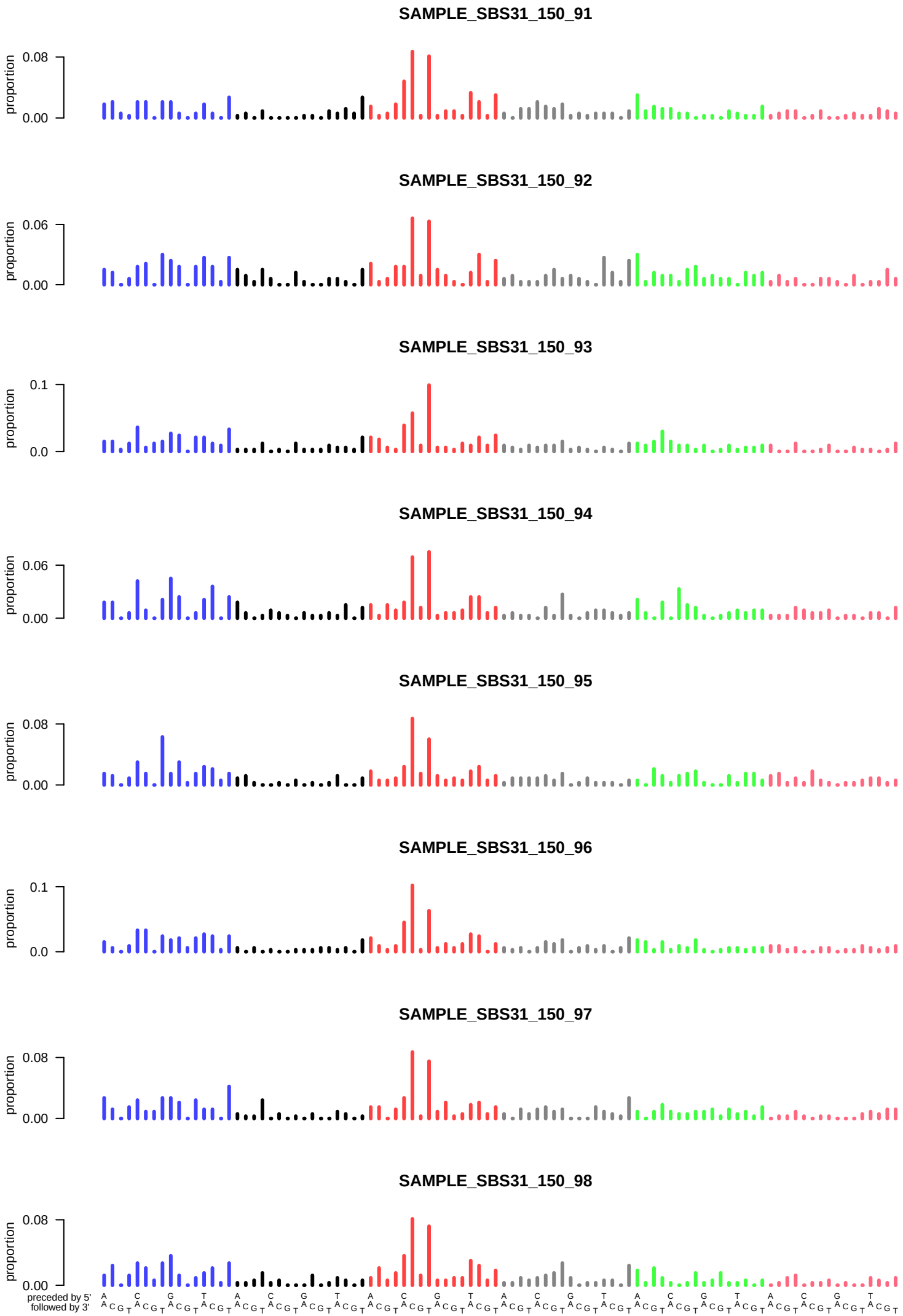
followed by 3'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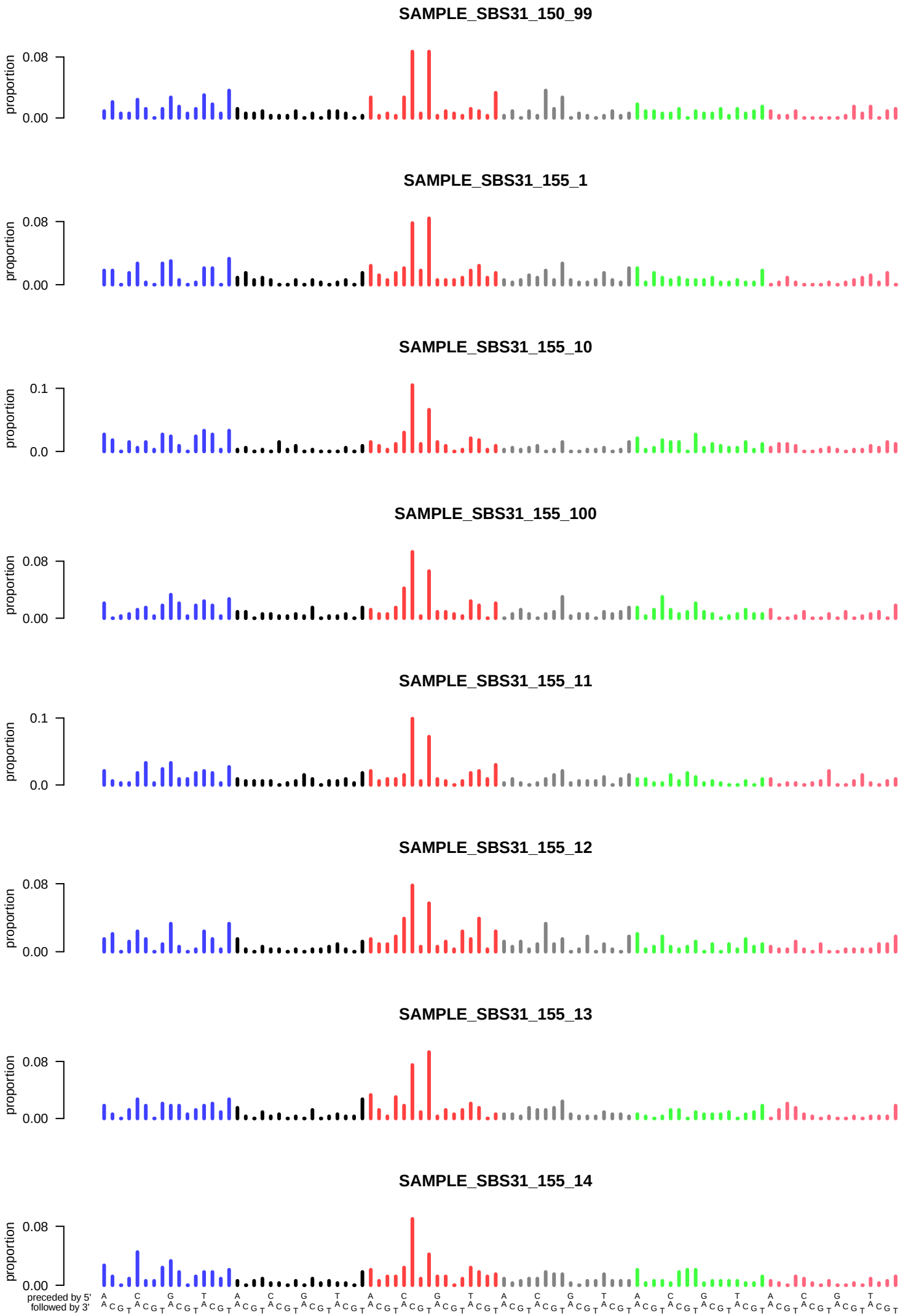
followed by 3'
A C G T A C G T A C G T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followed by 3'
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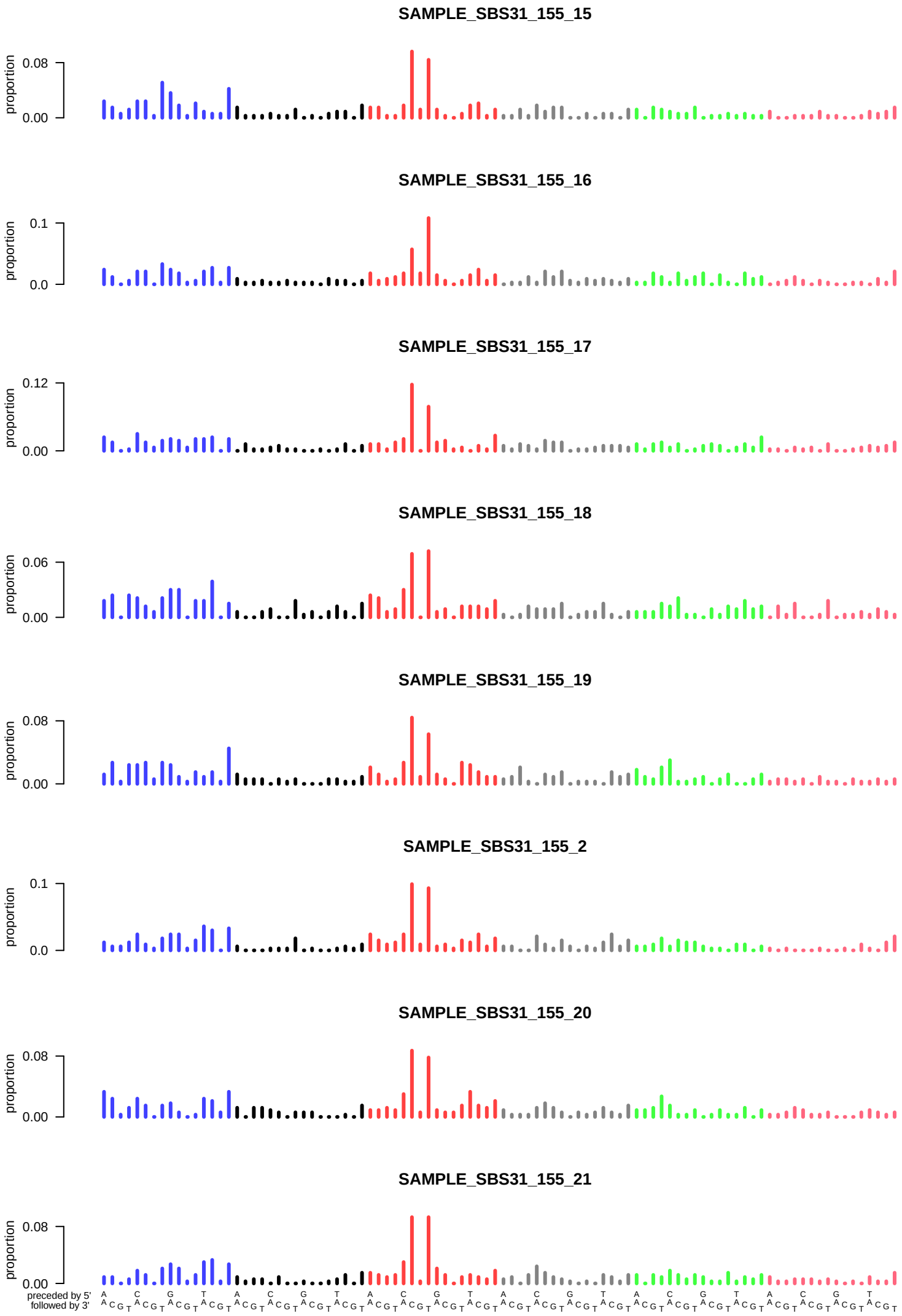
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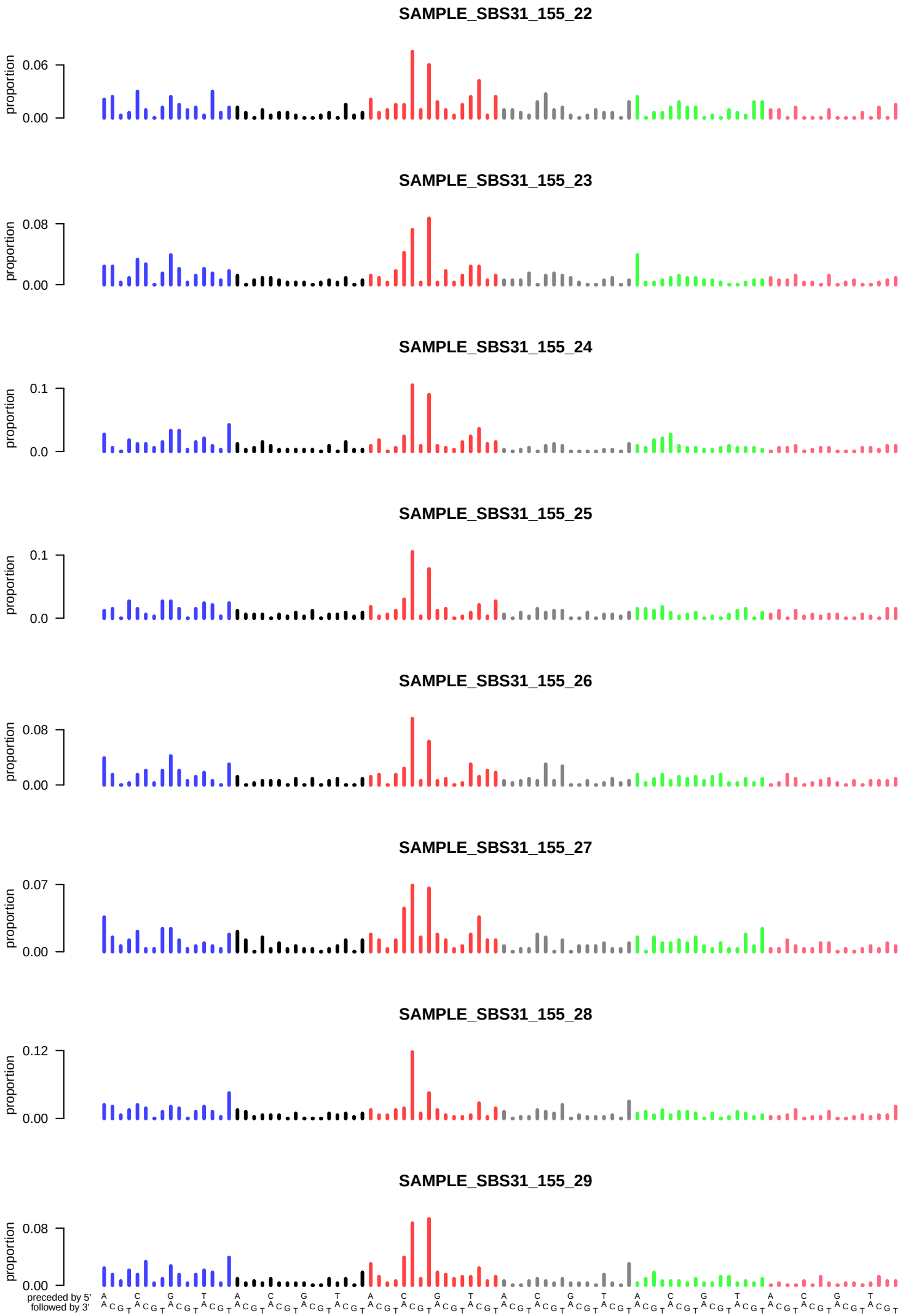
followed by 3'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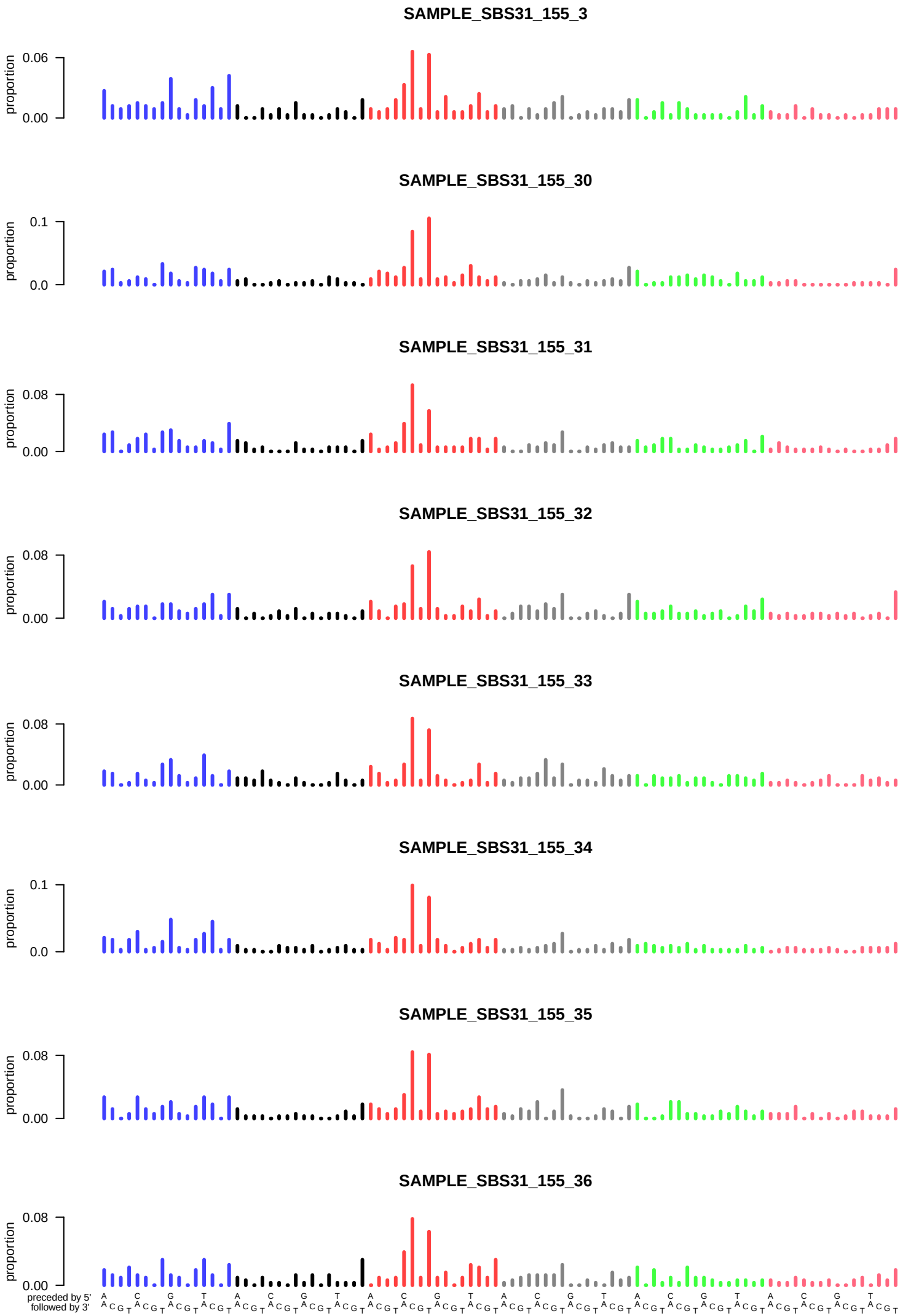
followed by 3'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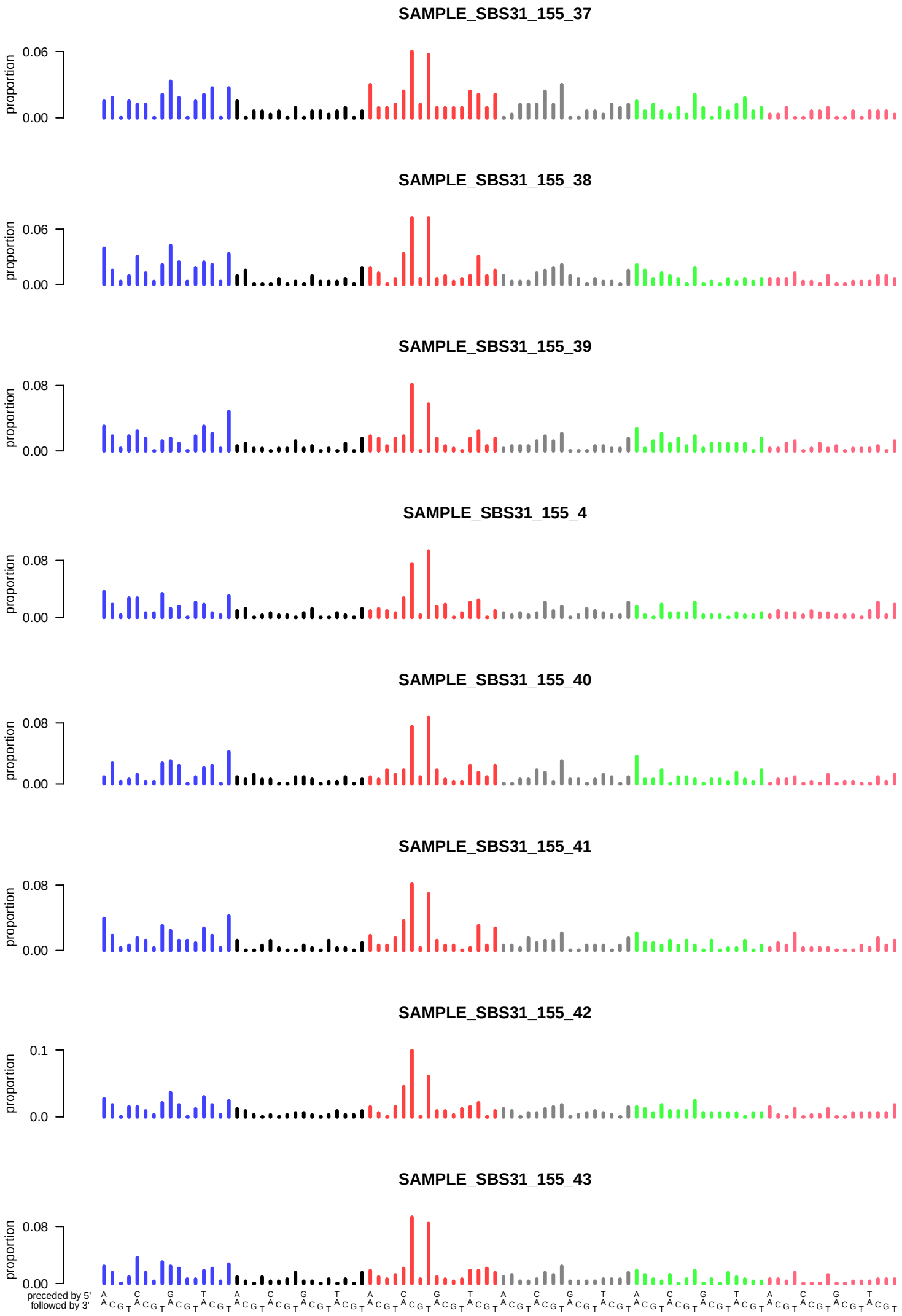
followed by 3'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SAMPLE_SBS31_155_40
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SAMPLE_SBS31_155_41
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SAMPLE_SBS31_155_42
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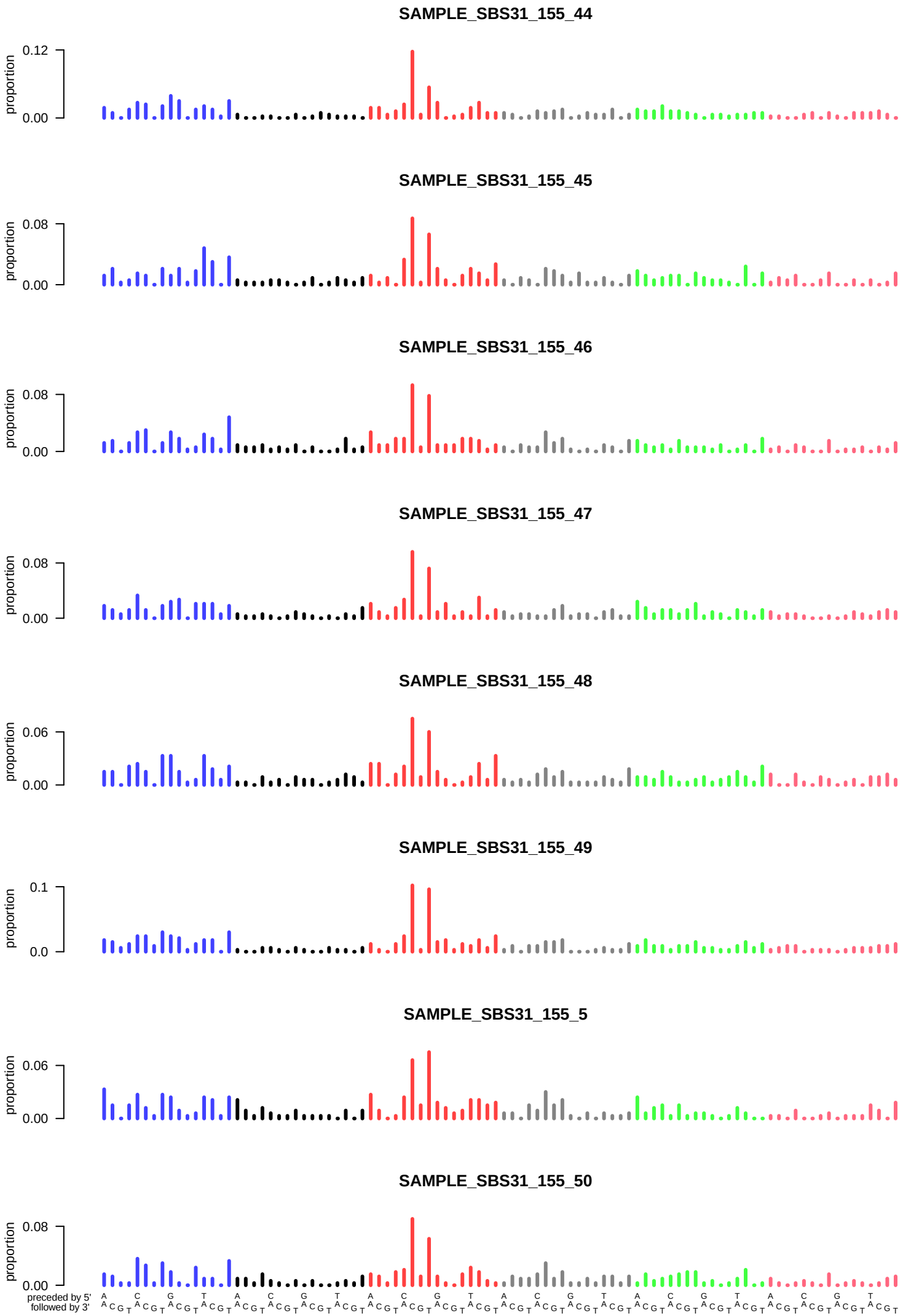
followed by 3'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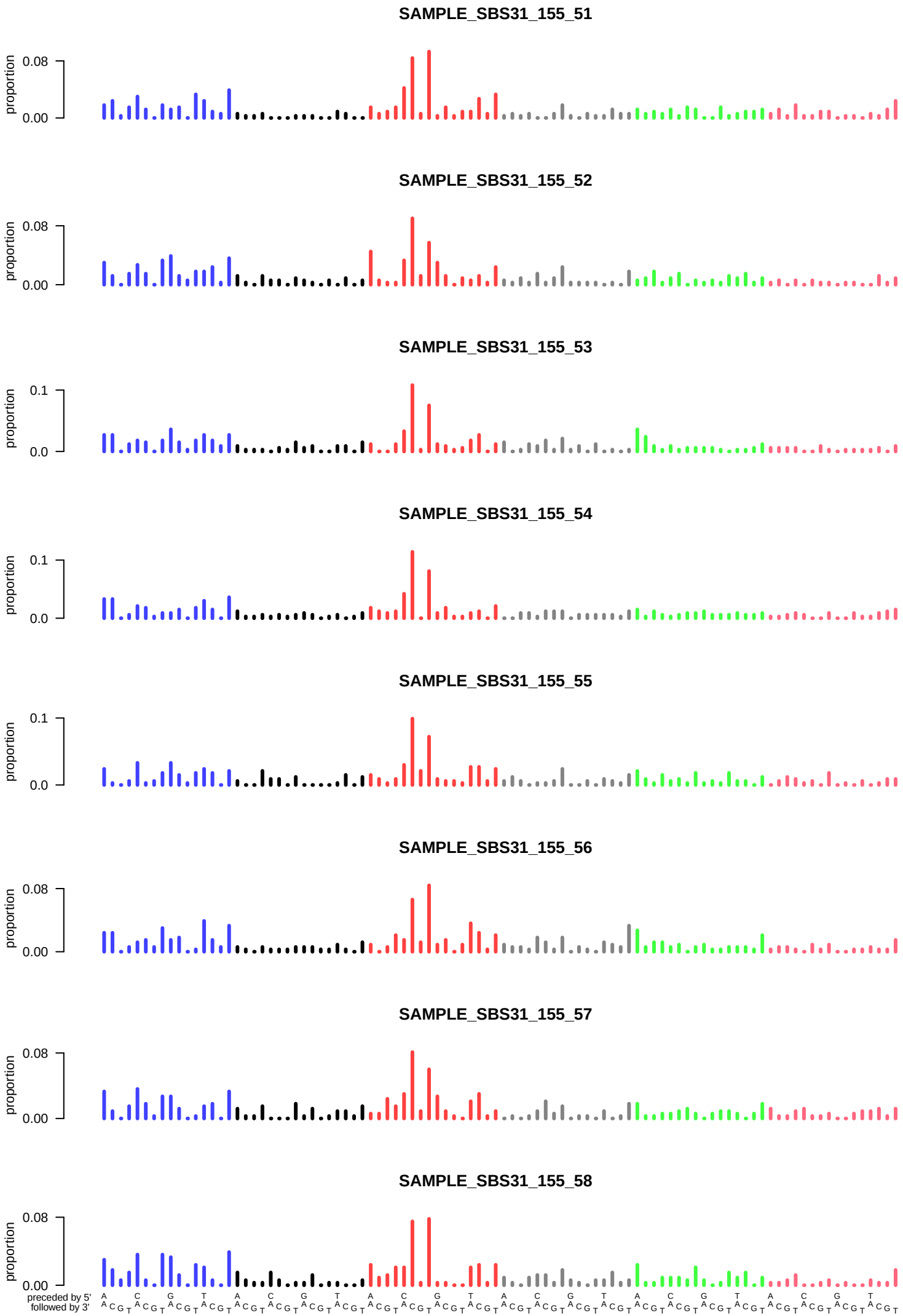
followed by 3'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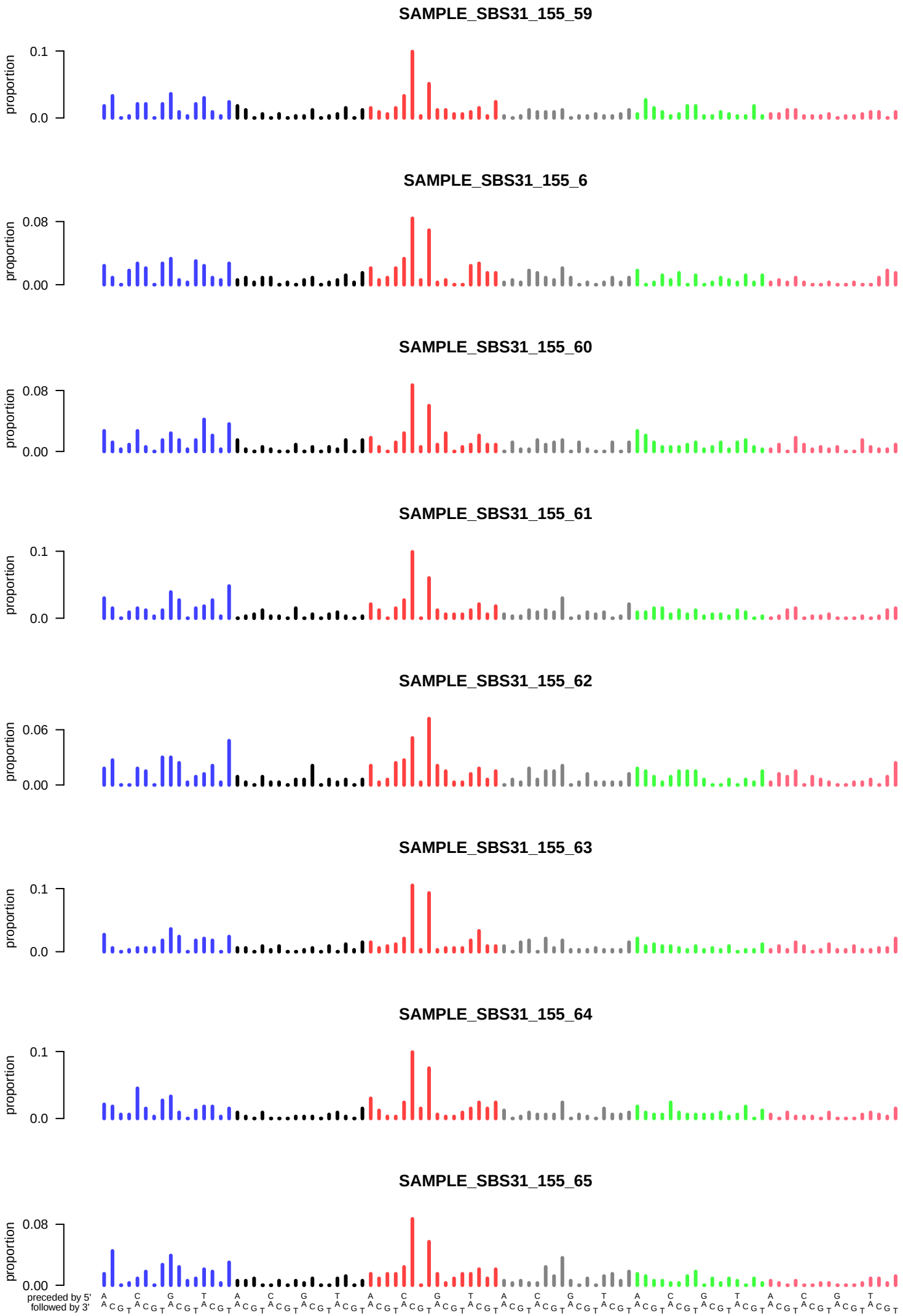
followed by 3'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SAMPLE_SBS31_155_61
SAMPLE_SBS31_155_62
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SAMPLE_SBS31_155_64
SAMPLE_SBS31_155_65
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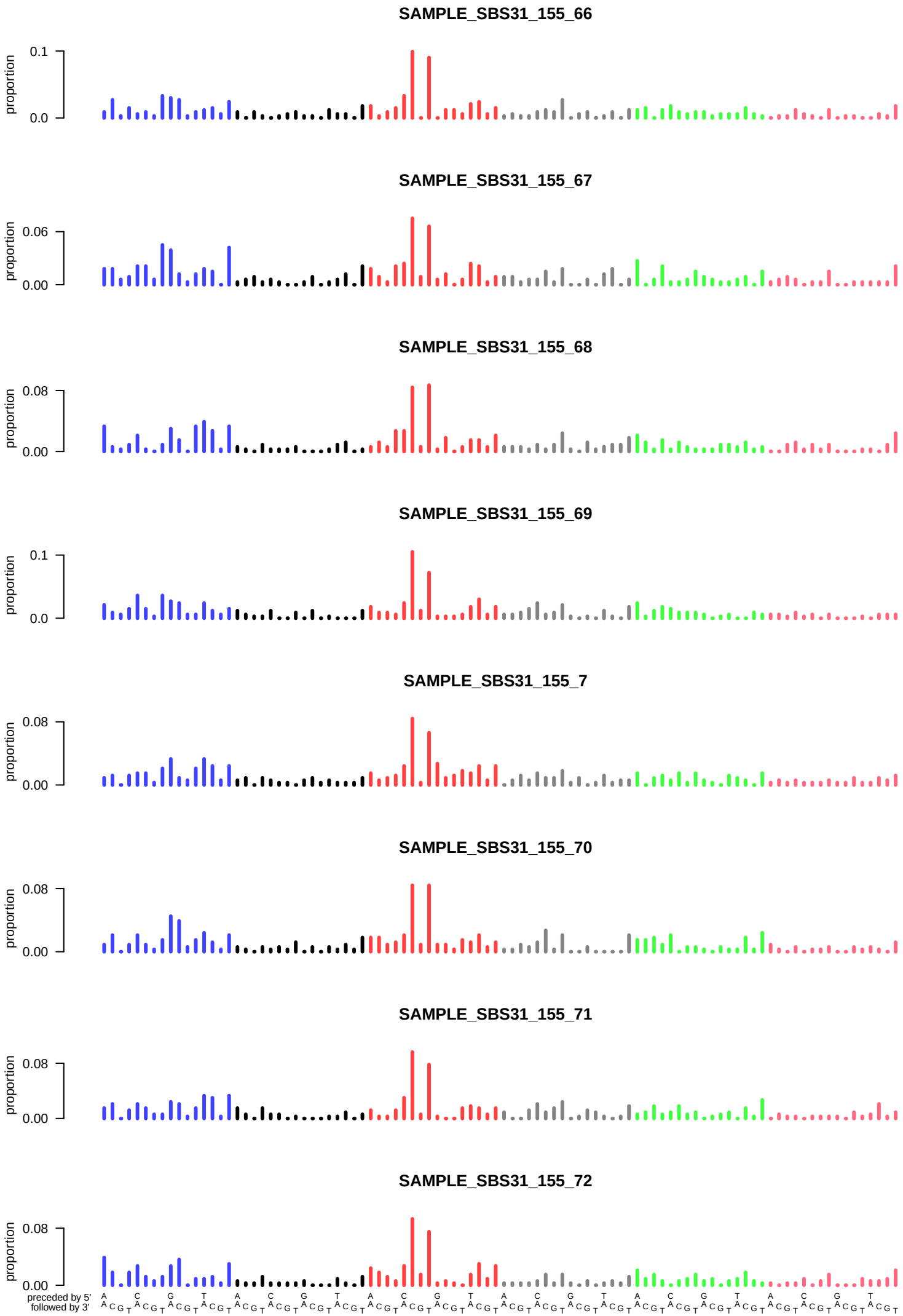
preceded by 5'
followed by 3'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SAMPLE_SBS31_155_70
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SAMPLE_SBS31_155_71
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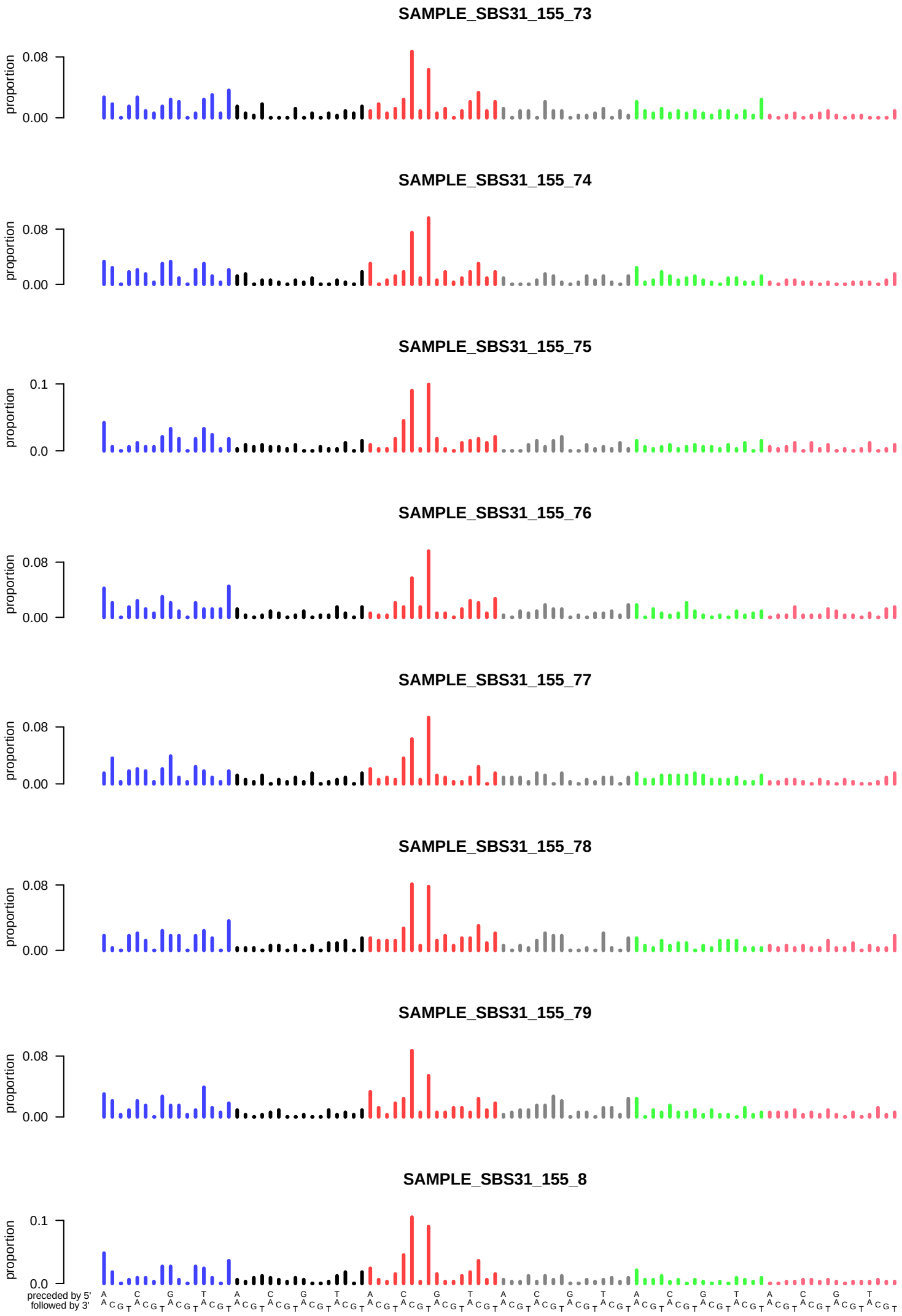
preceded by 5'
followed by 3'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SAMPLE_SBS31_155_77
proportion
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SAMPLE_SBS31_155_78
proportion
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SAMPLE_SBS31_155_79
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SAMPLE_SBS31_155_8
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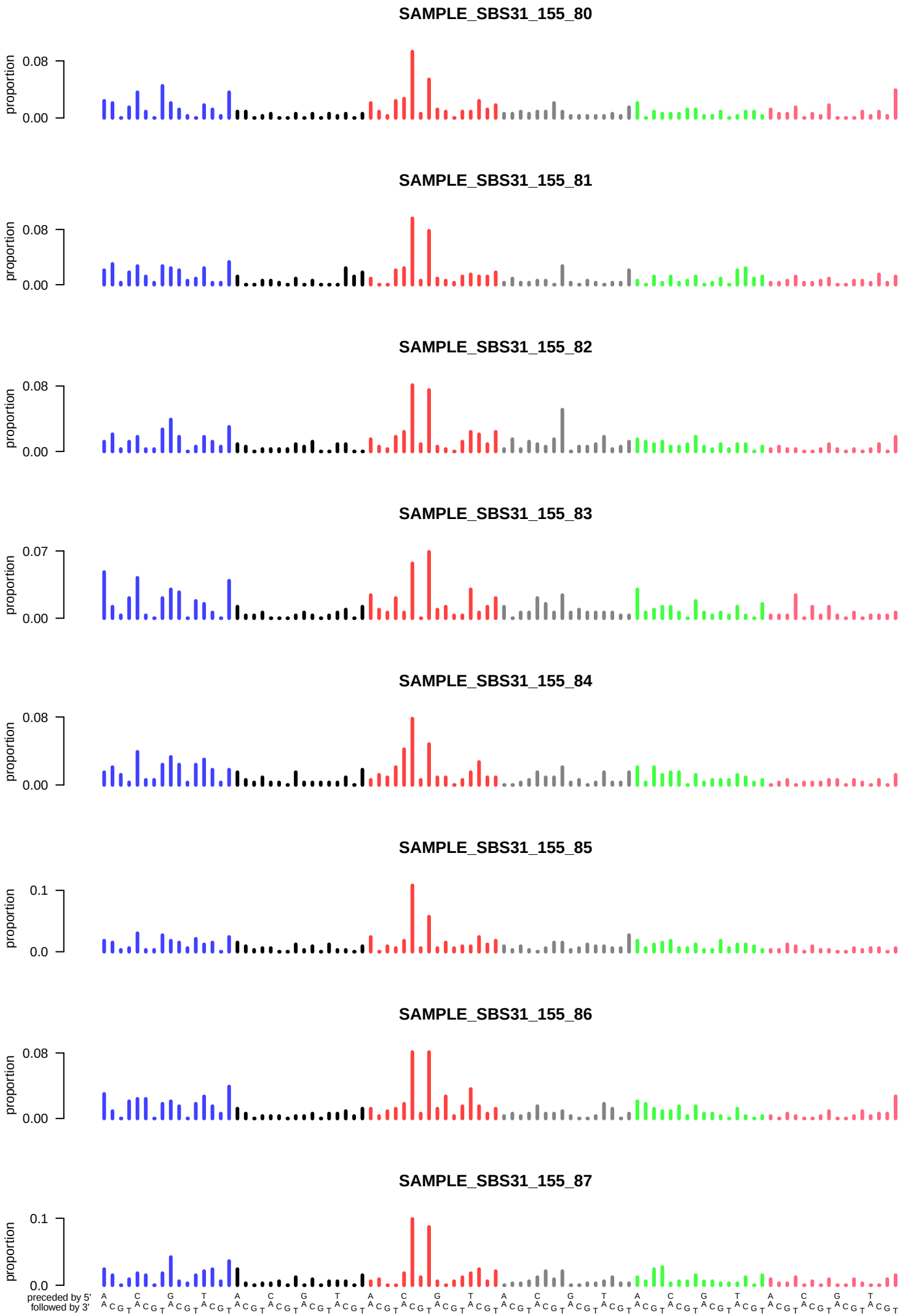
preceded by 5'
followed by 3'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proportion
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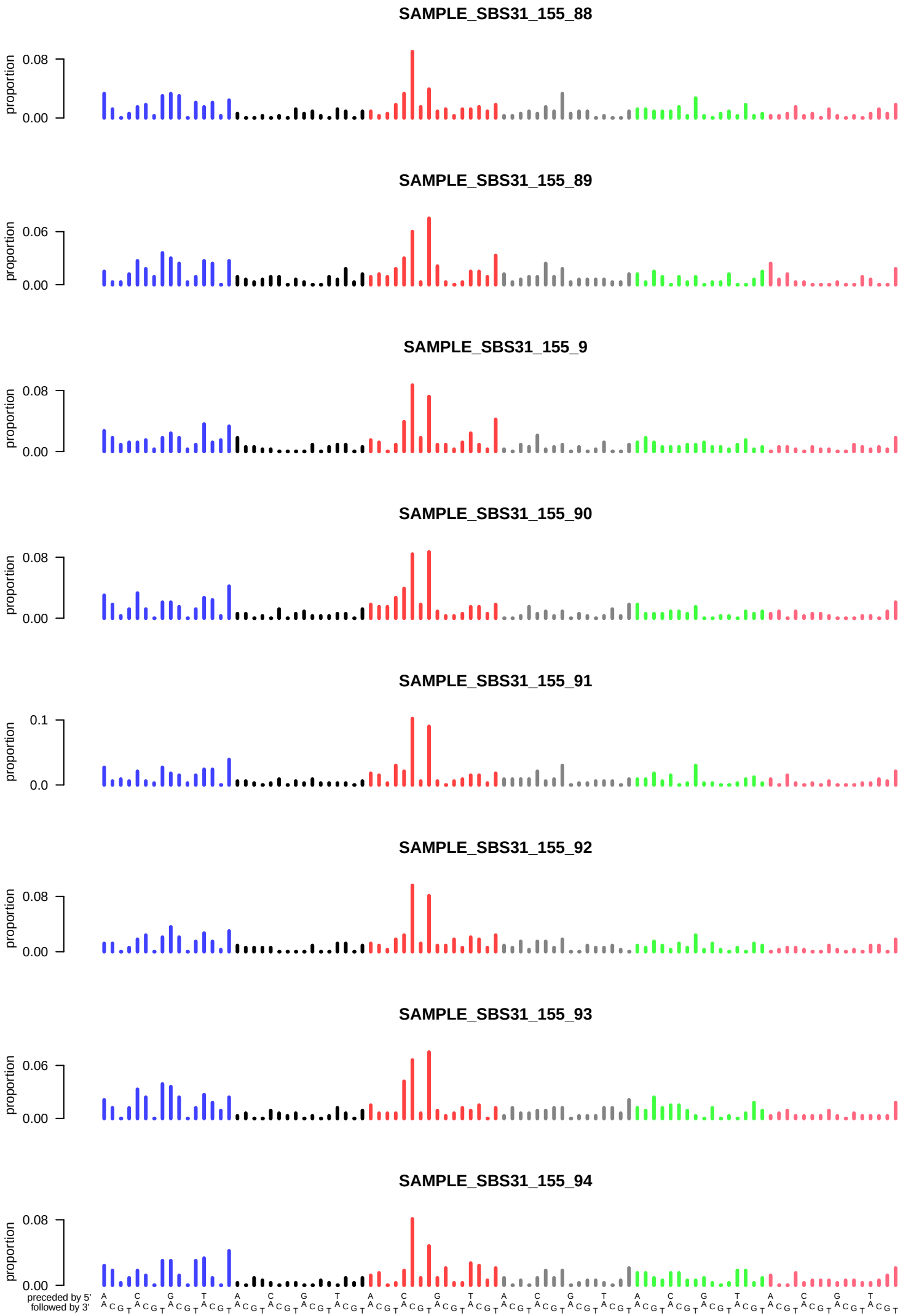
followed by 3'
A C G T A C G T A C G T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SAMPLE_SBS31_155_92
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SAMPLE_SBS31_155_93
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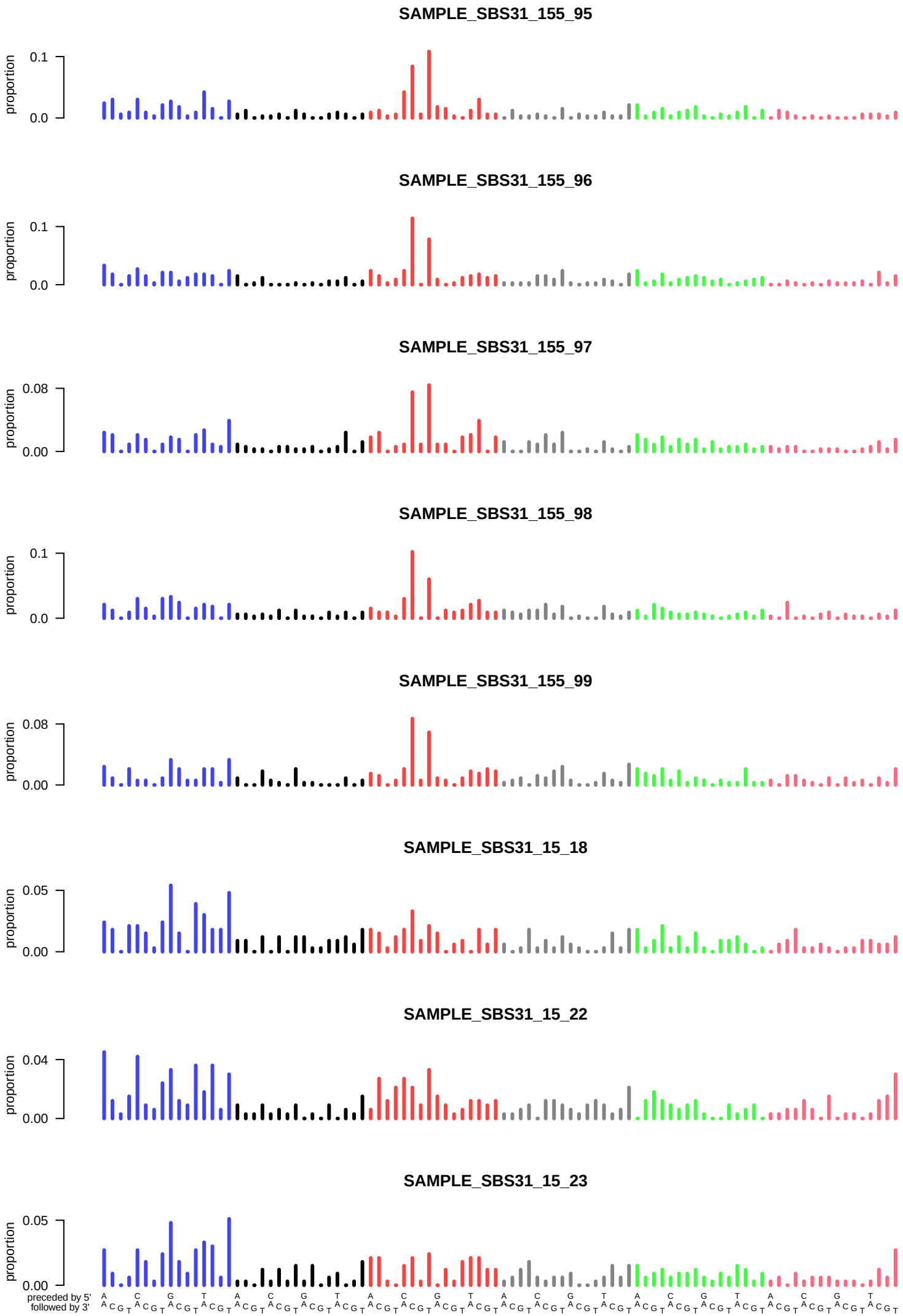
followed by 3'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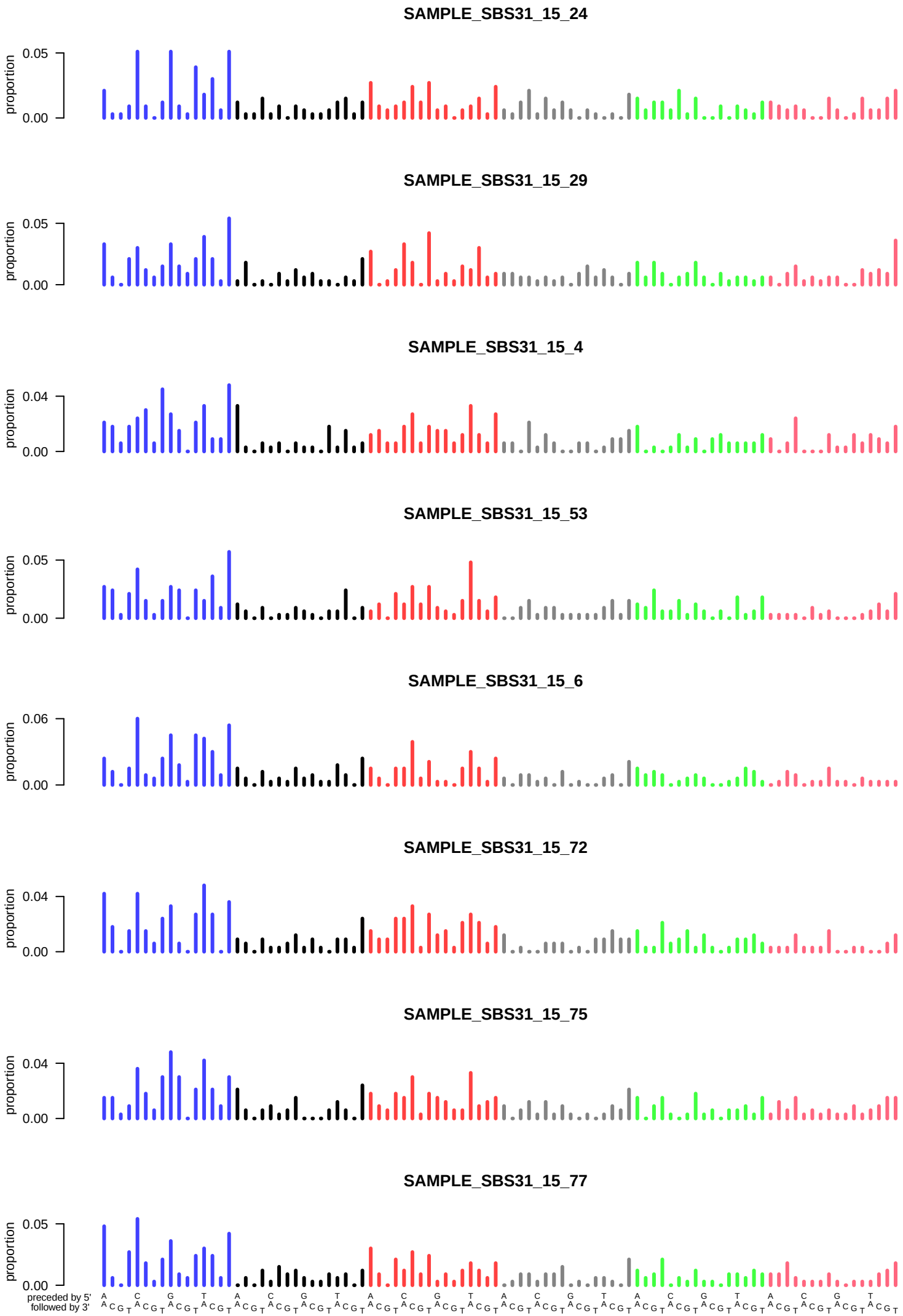
preceded by 5'
followed by 3'
A C G T A C G T A C G T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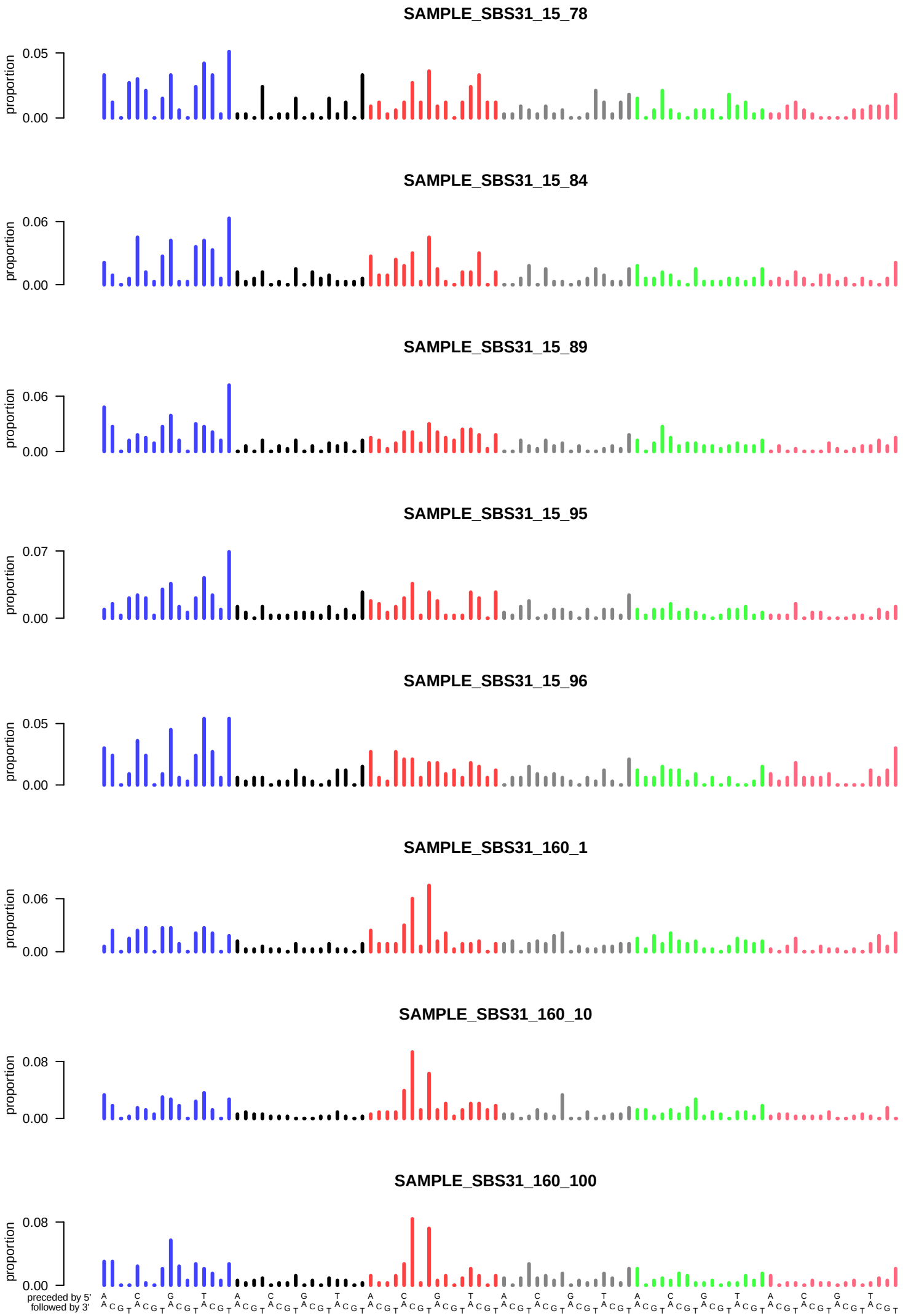
followed by 3'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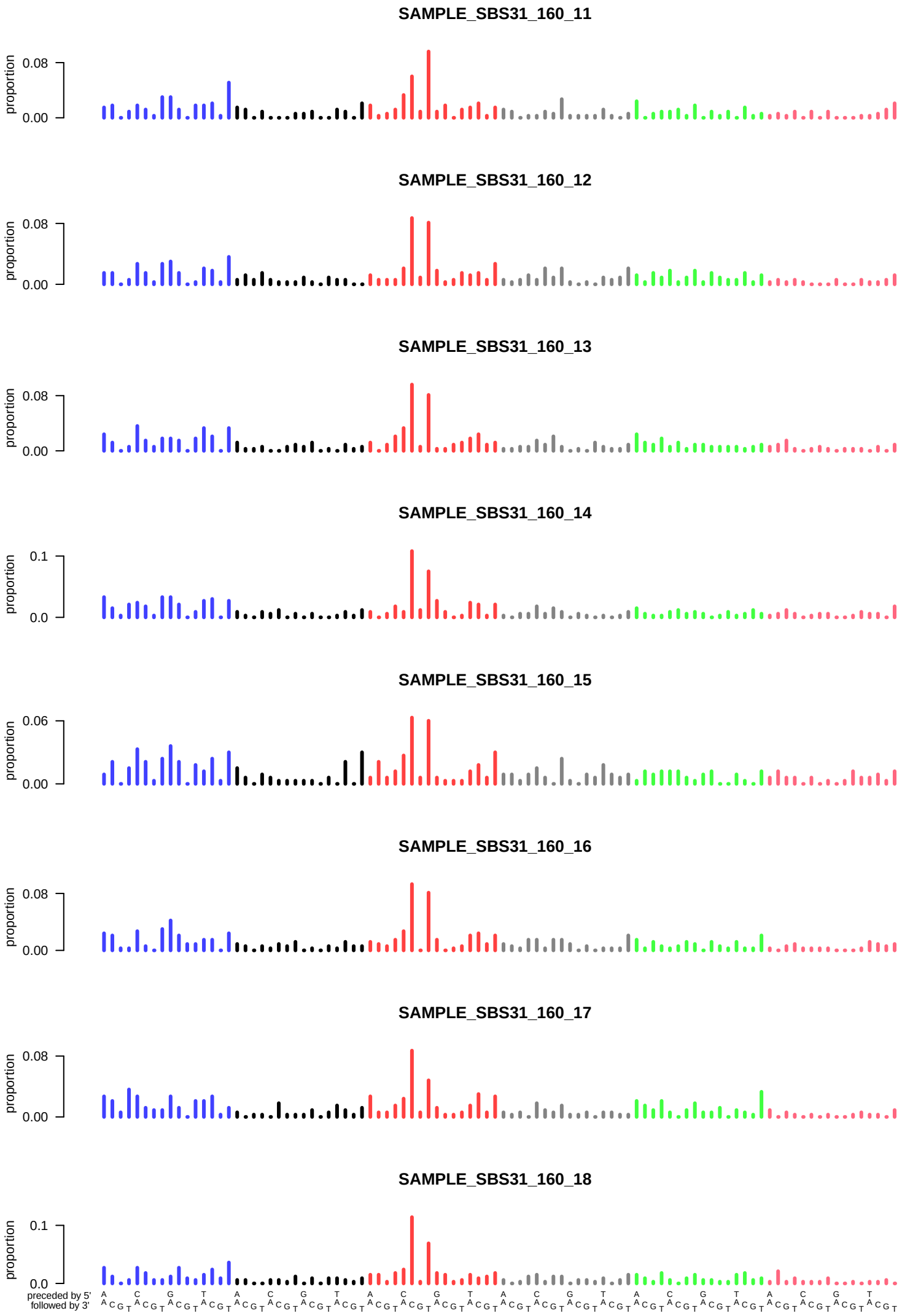
followed by 3'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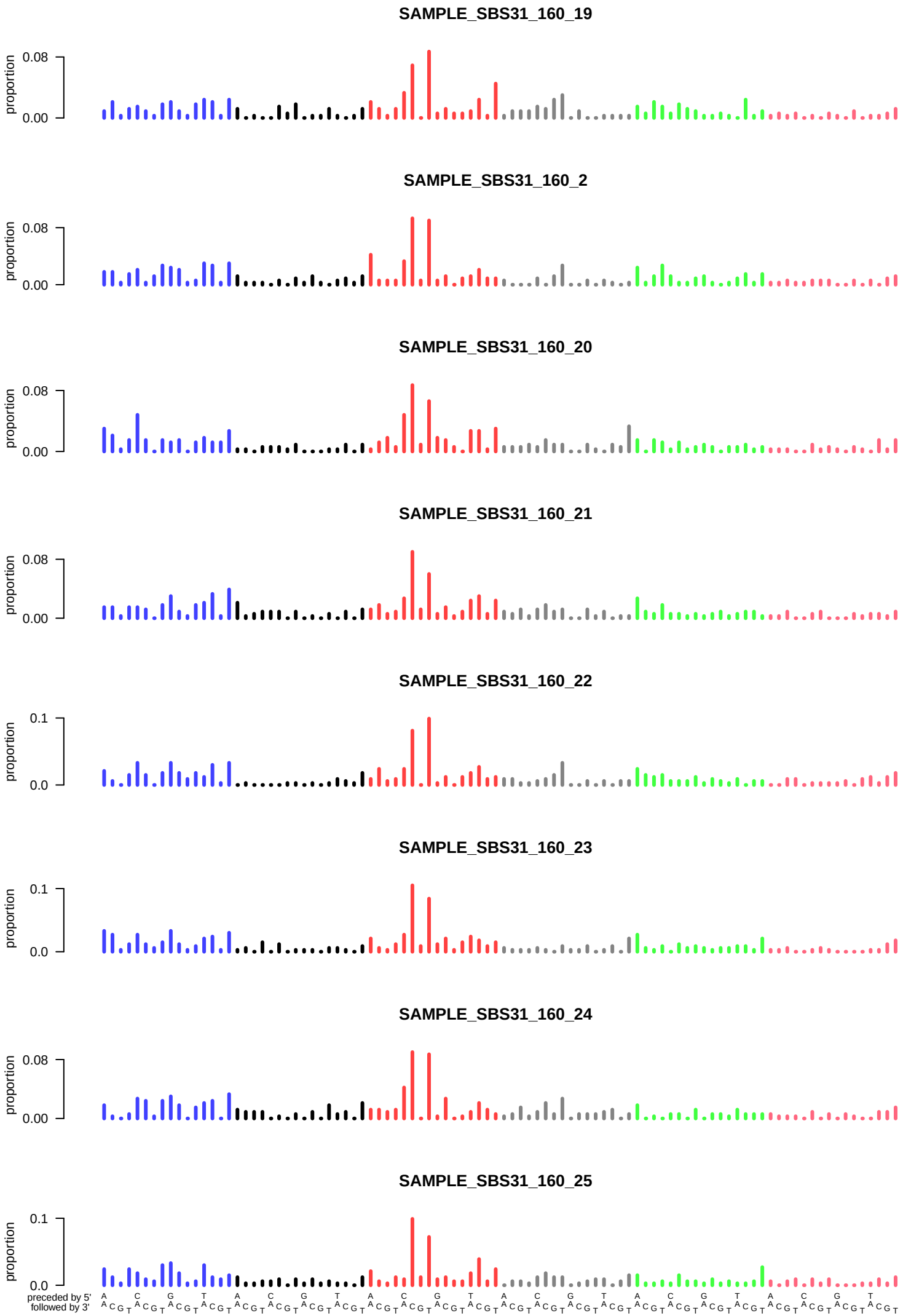
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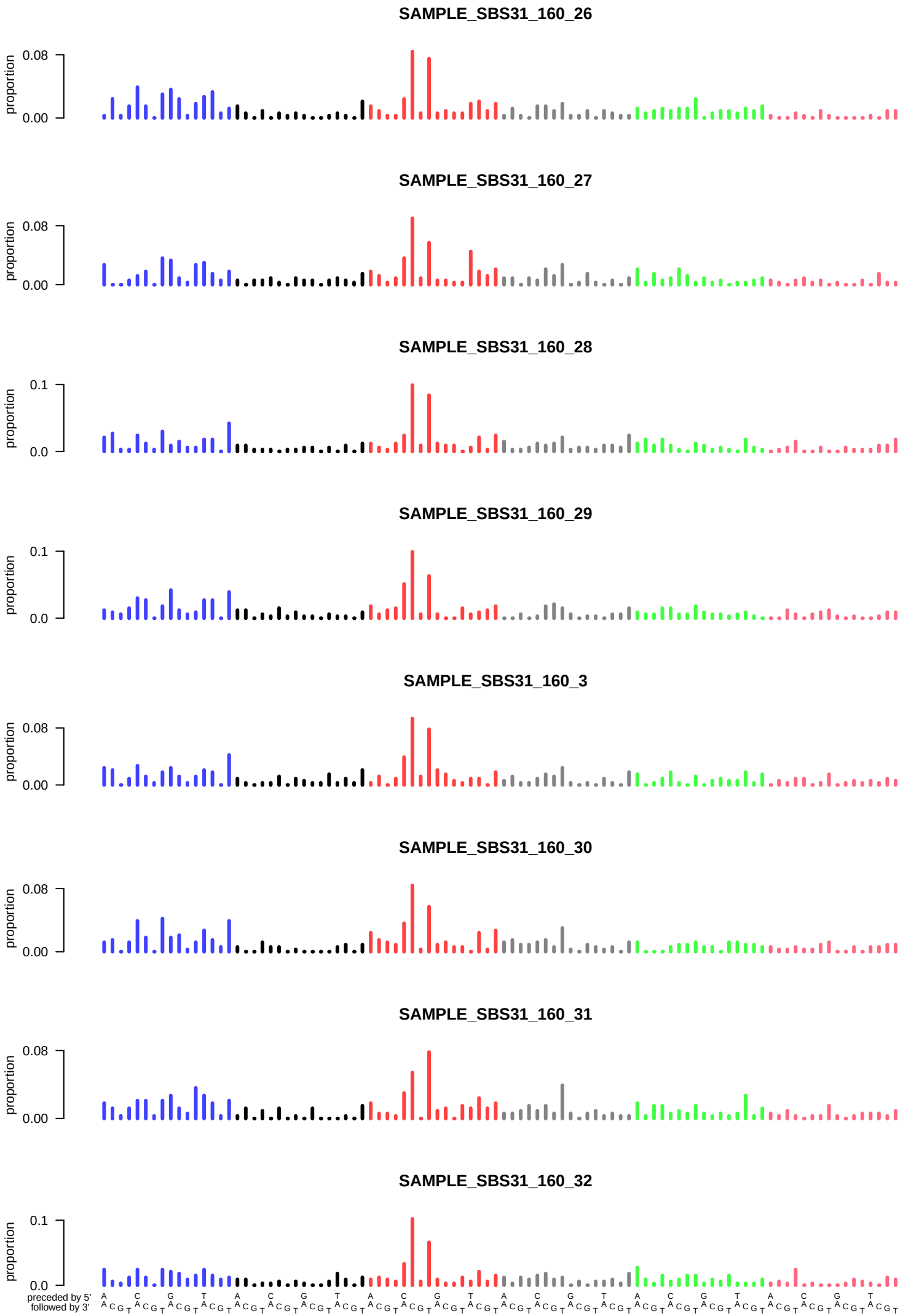
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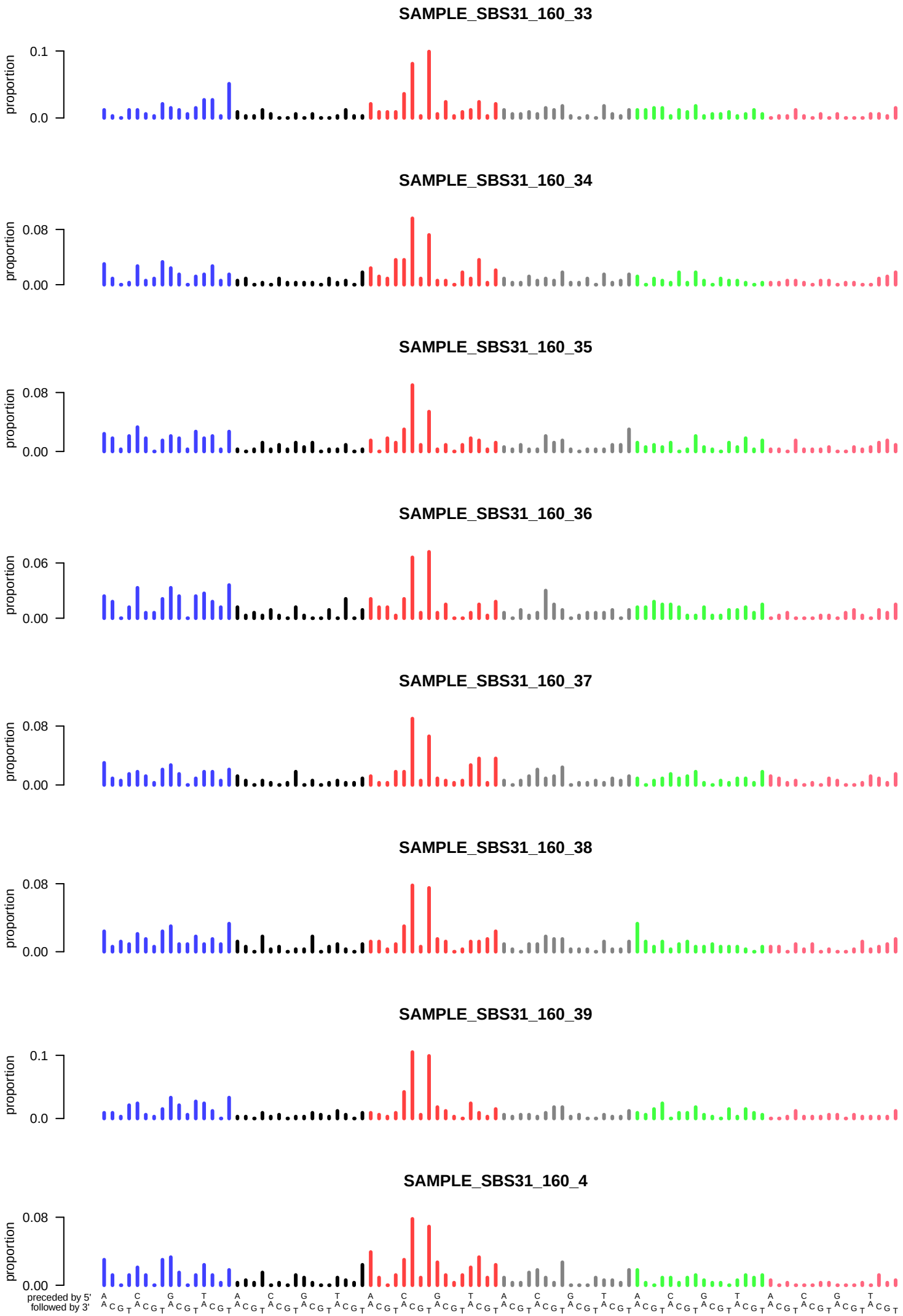
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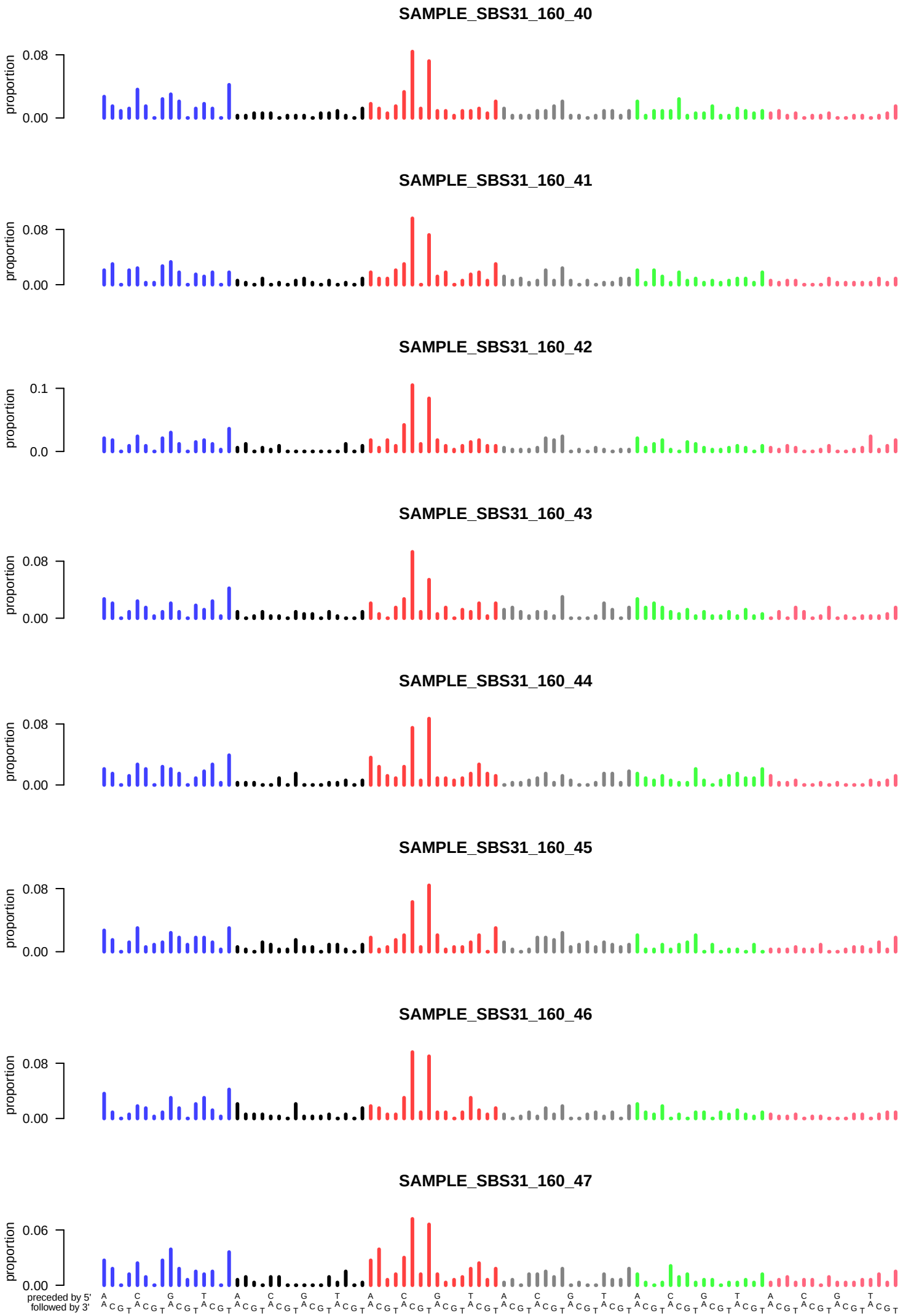
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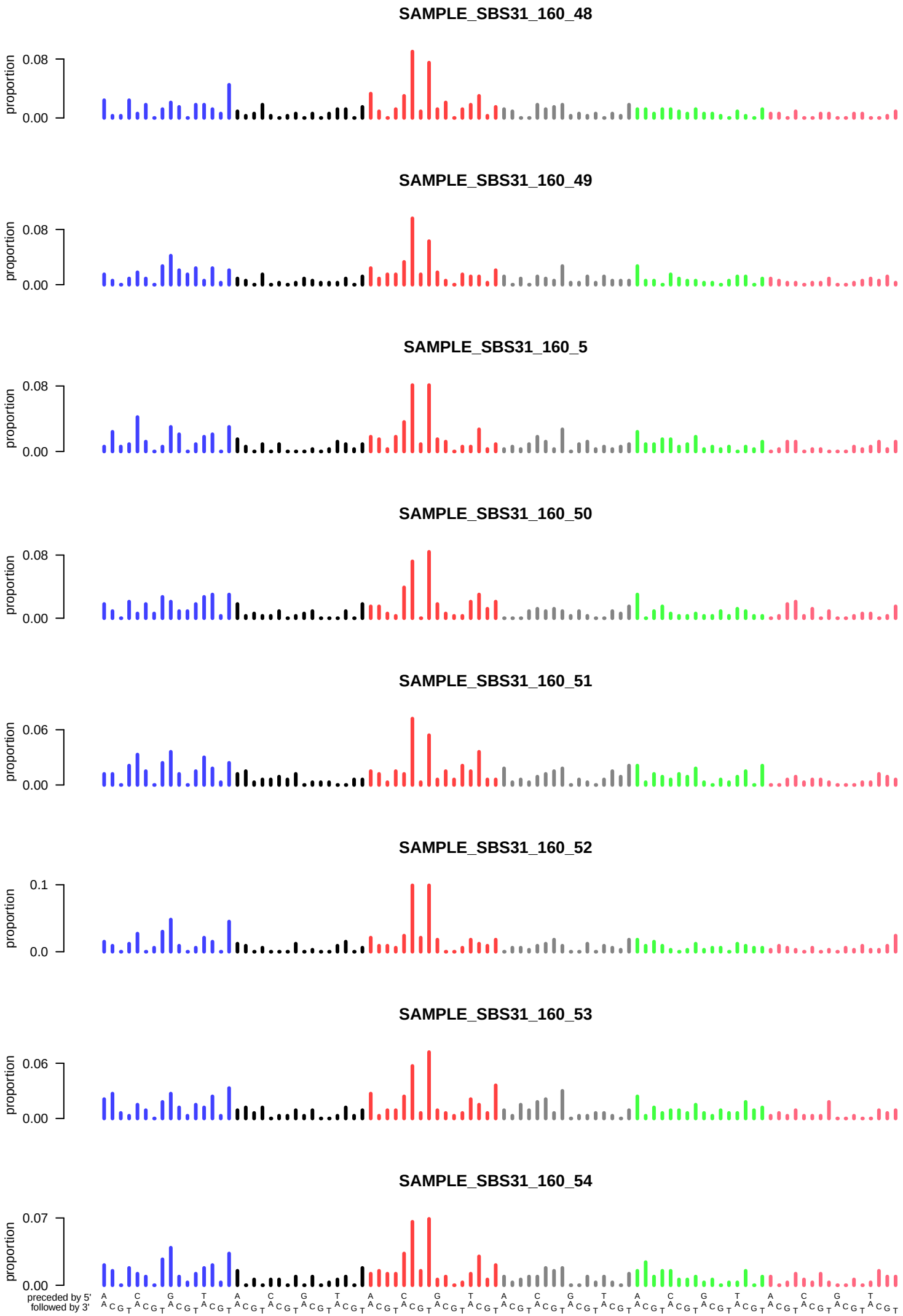
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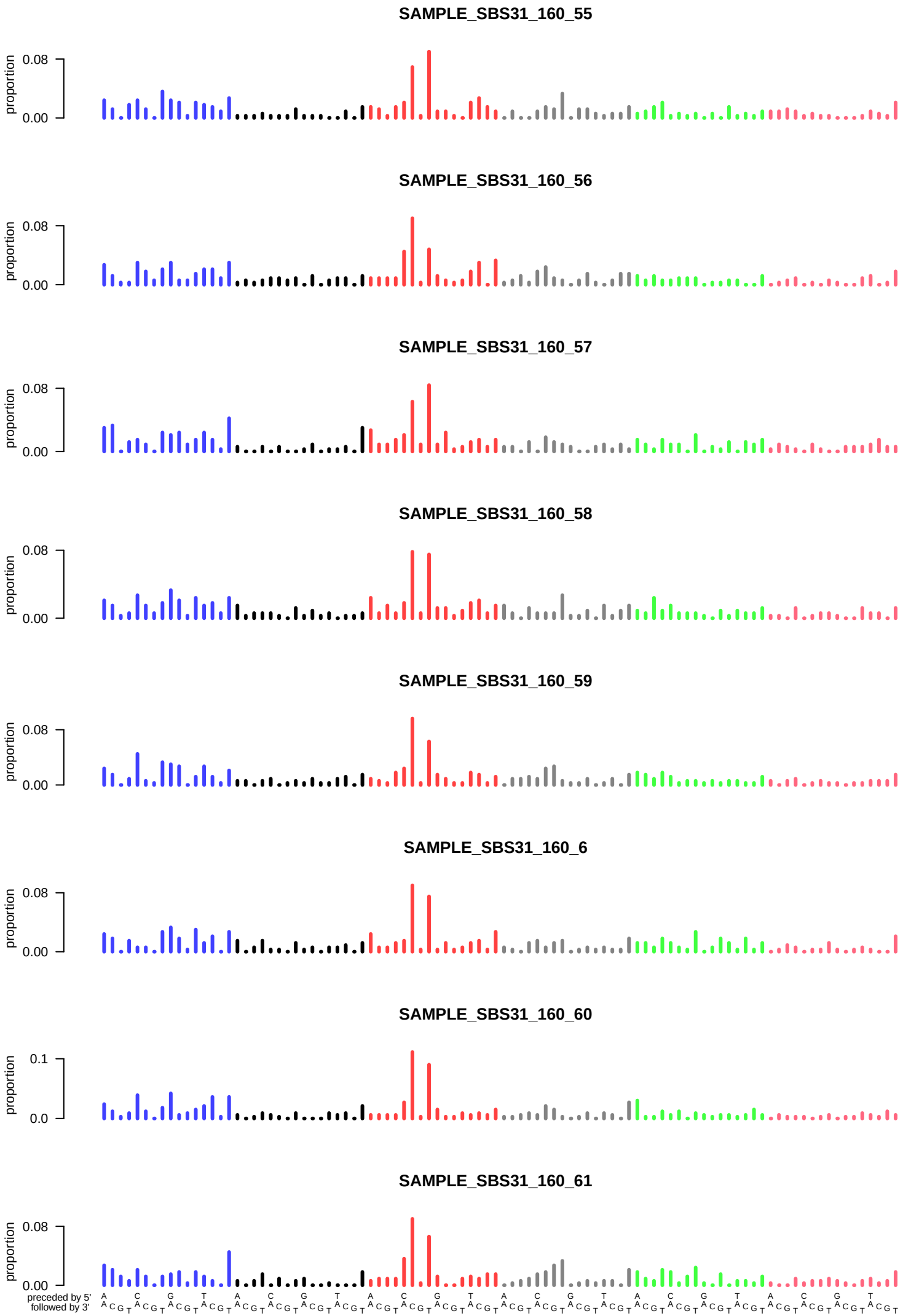
A C G T A C G T A C G T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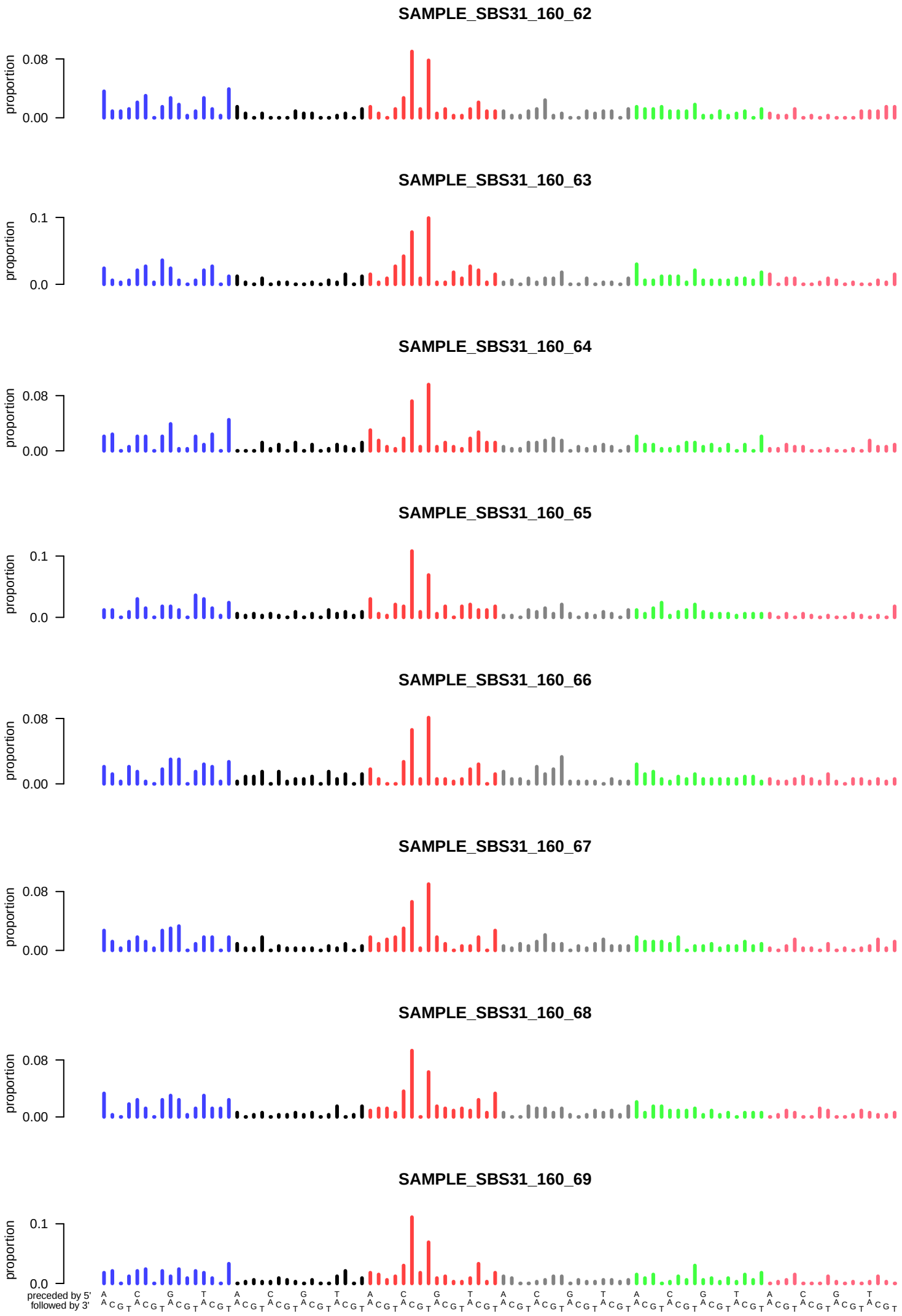
followed by 3'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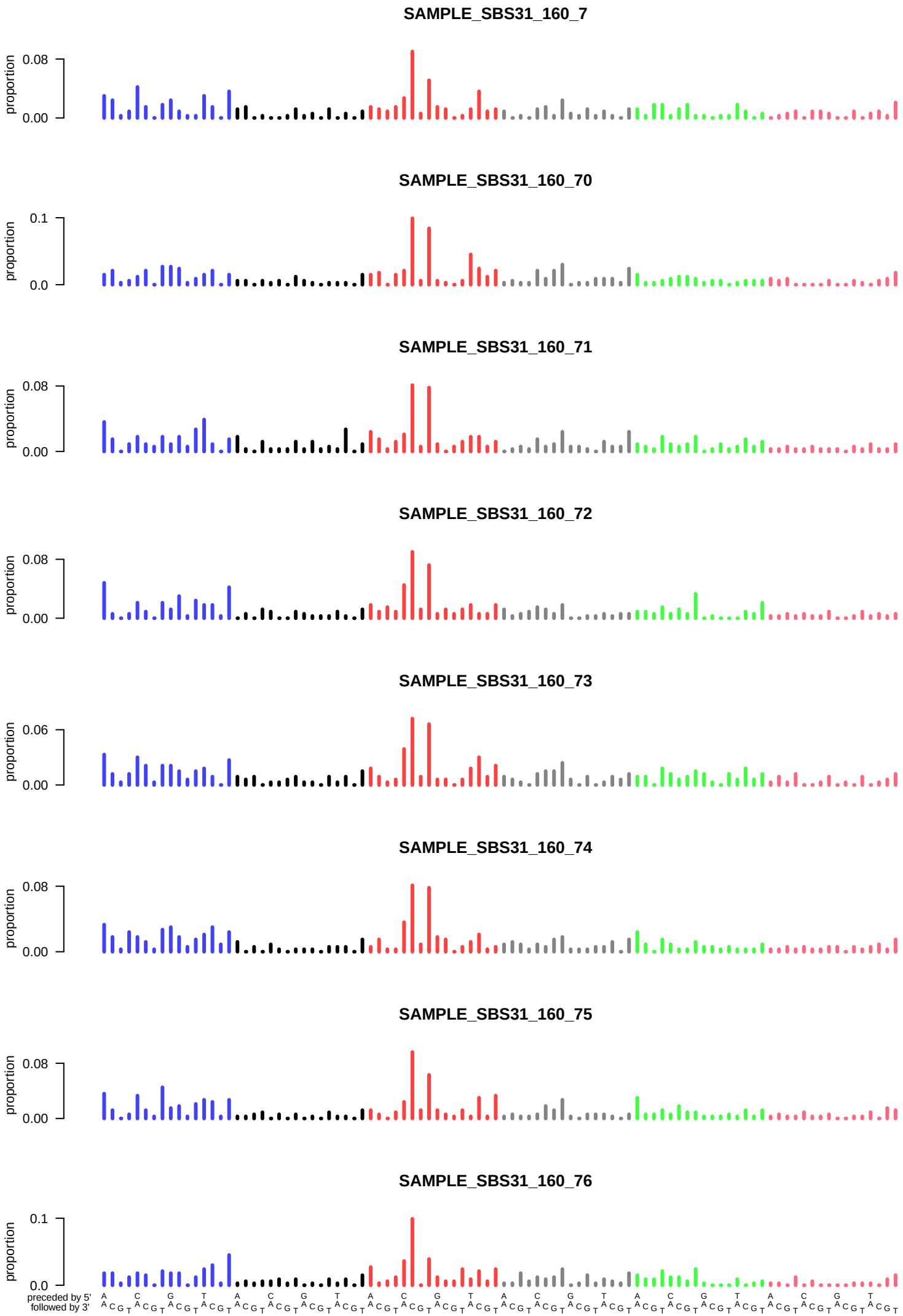
followed by 3'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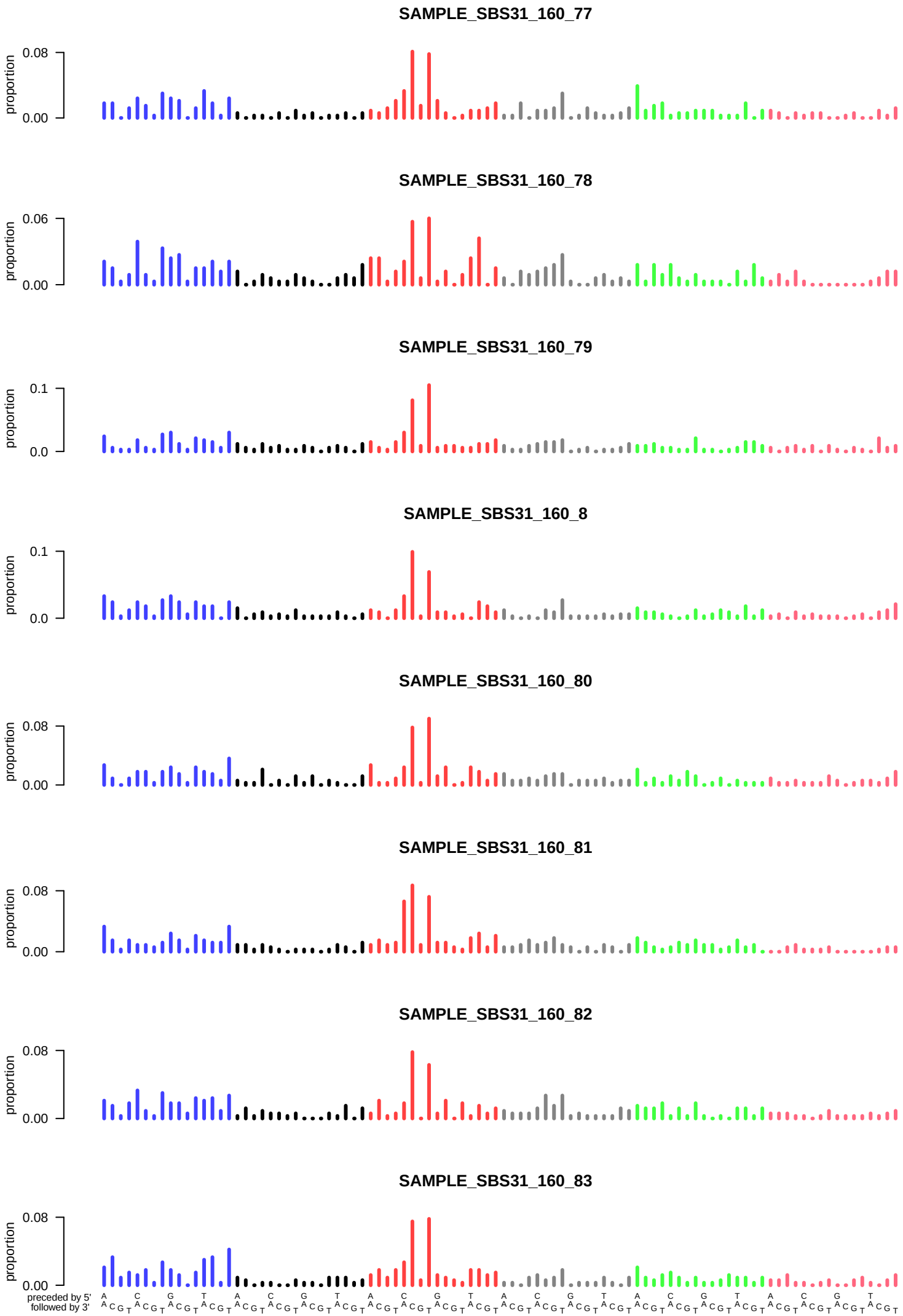
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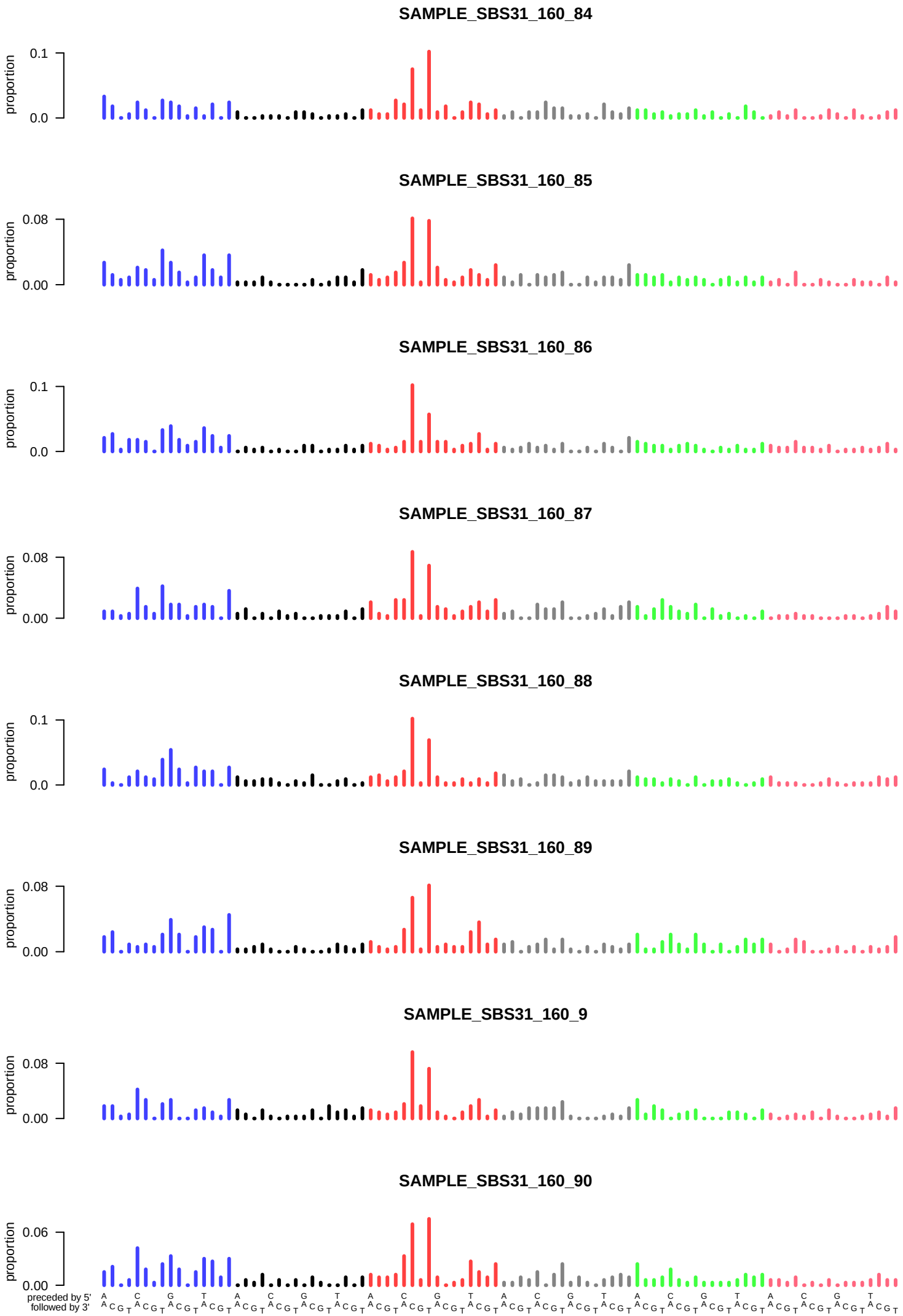
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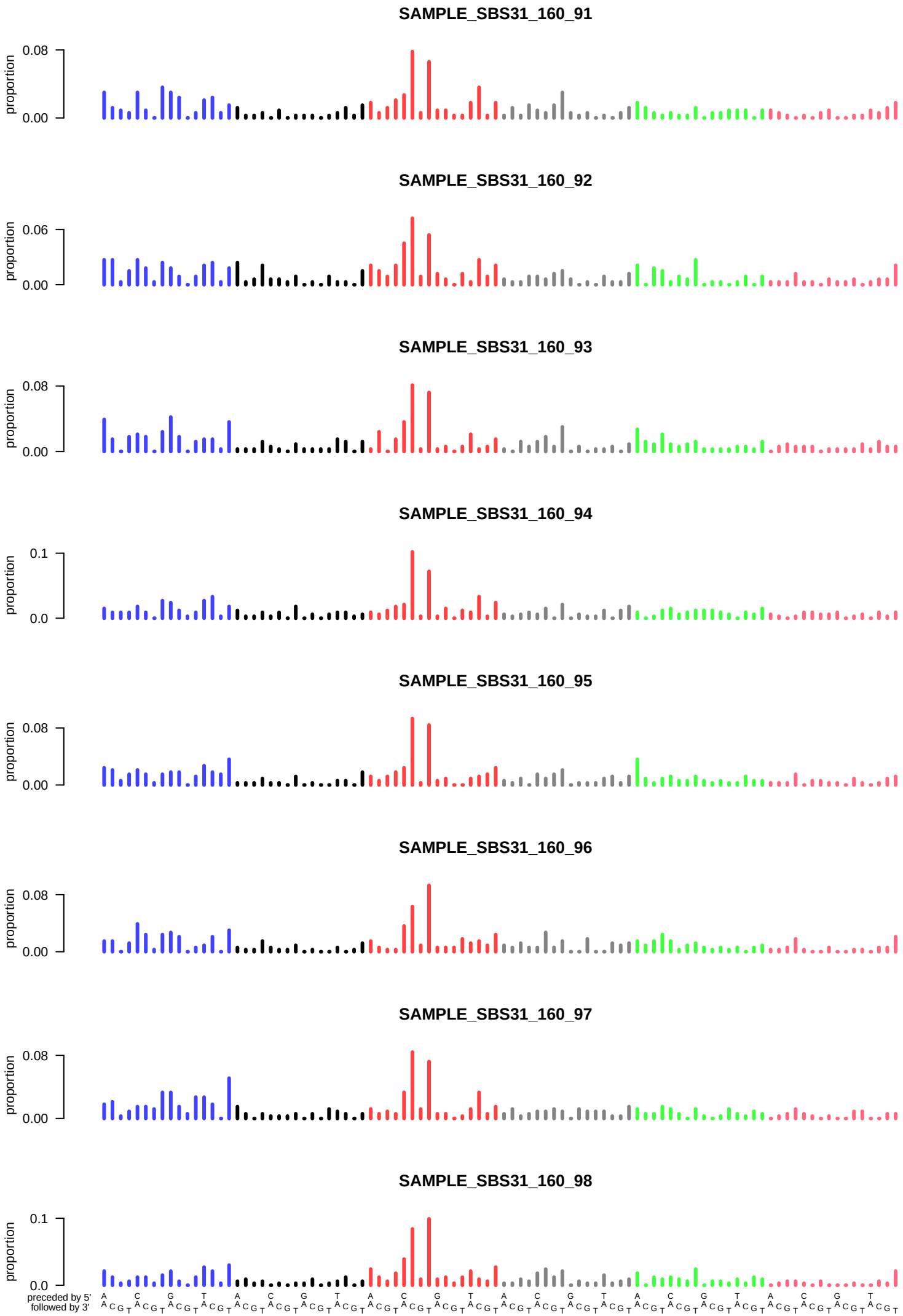
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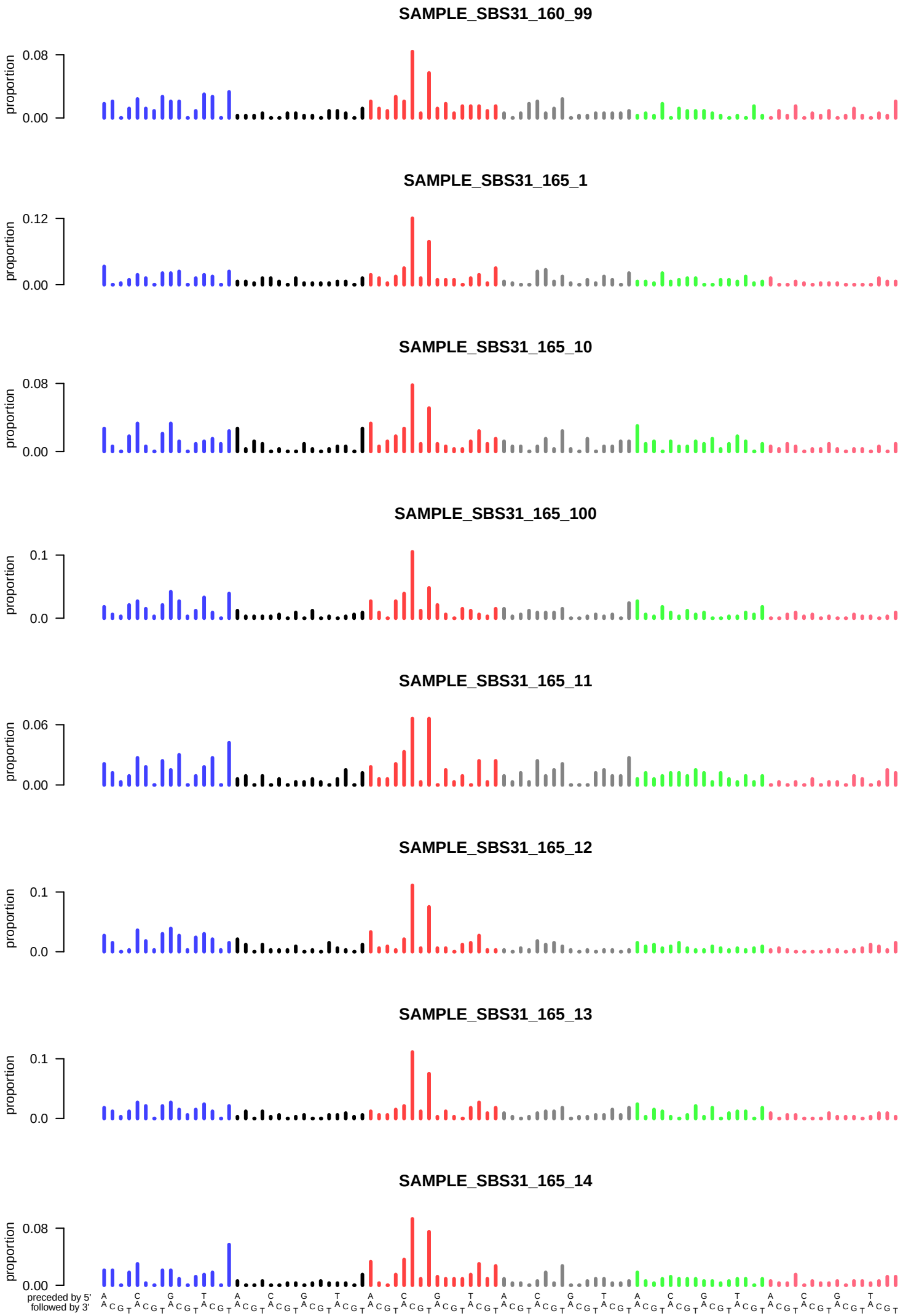
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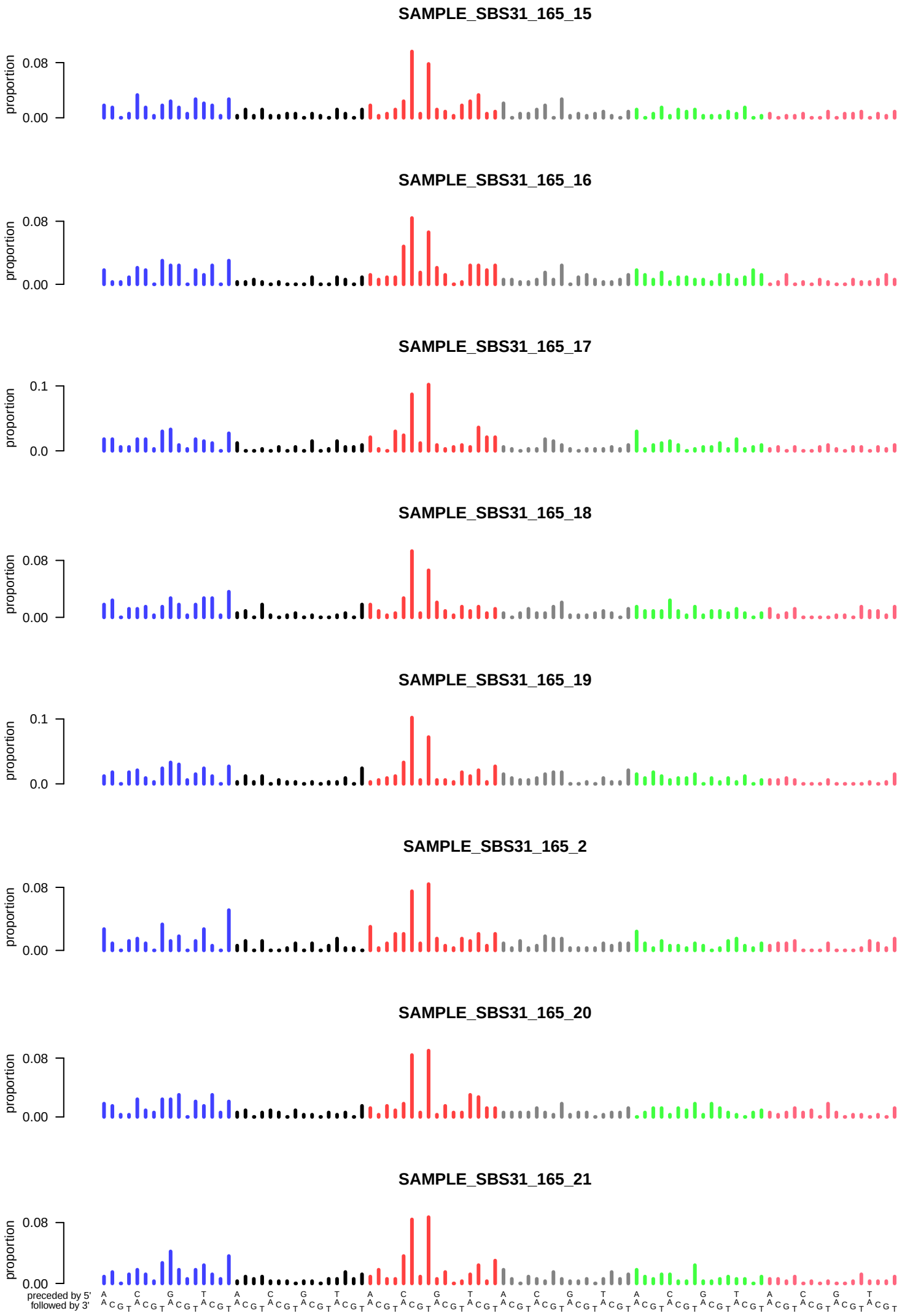
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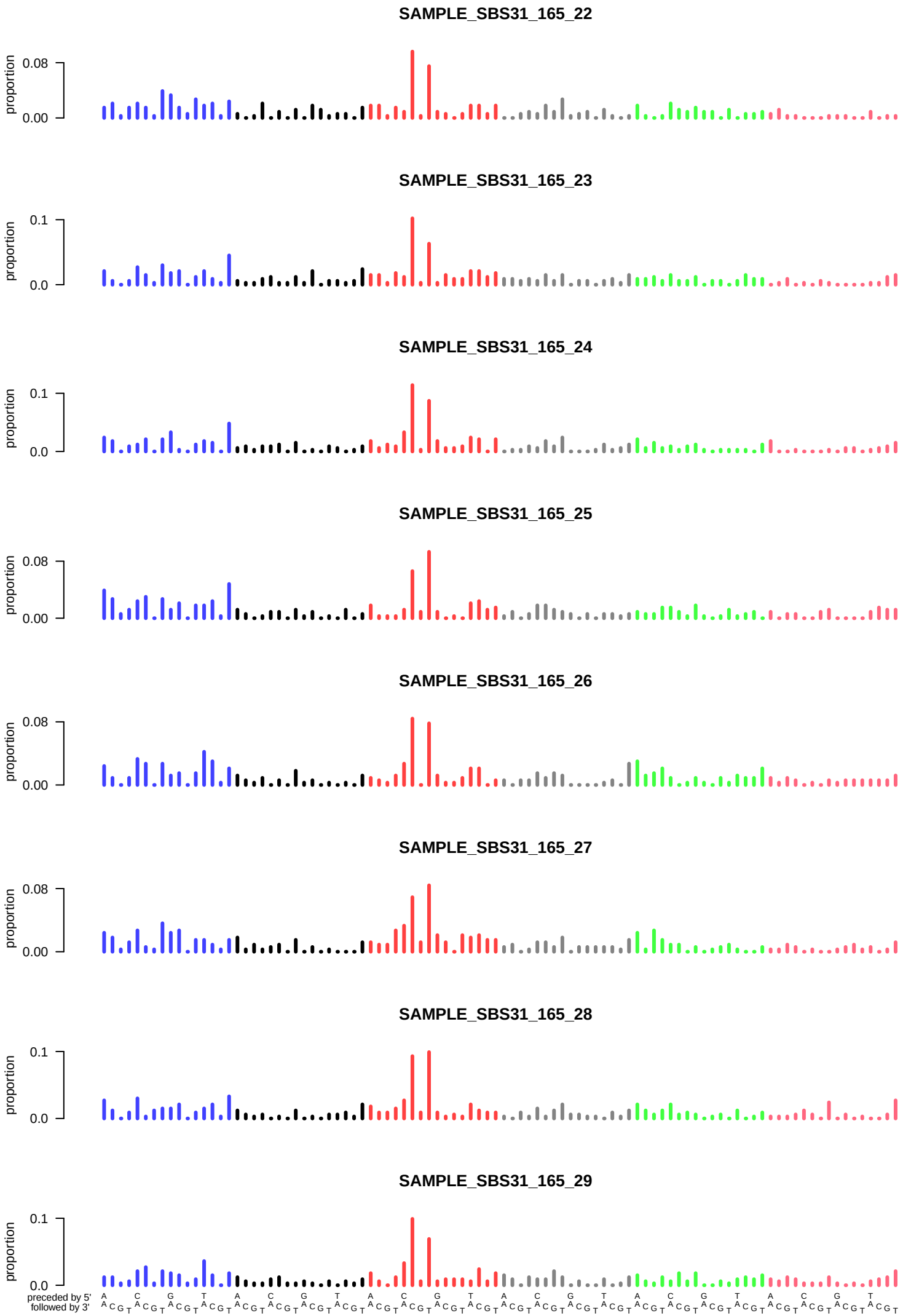
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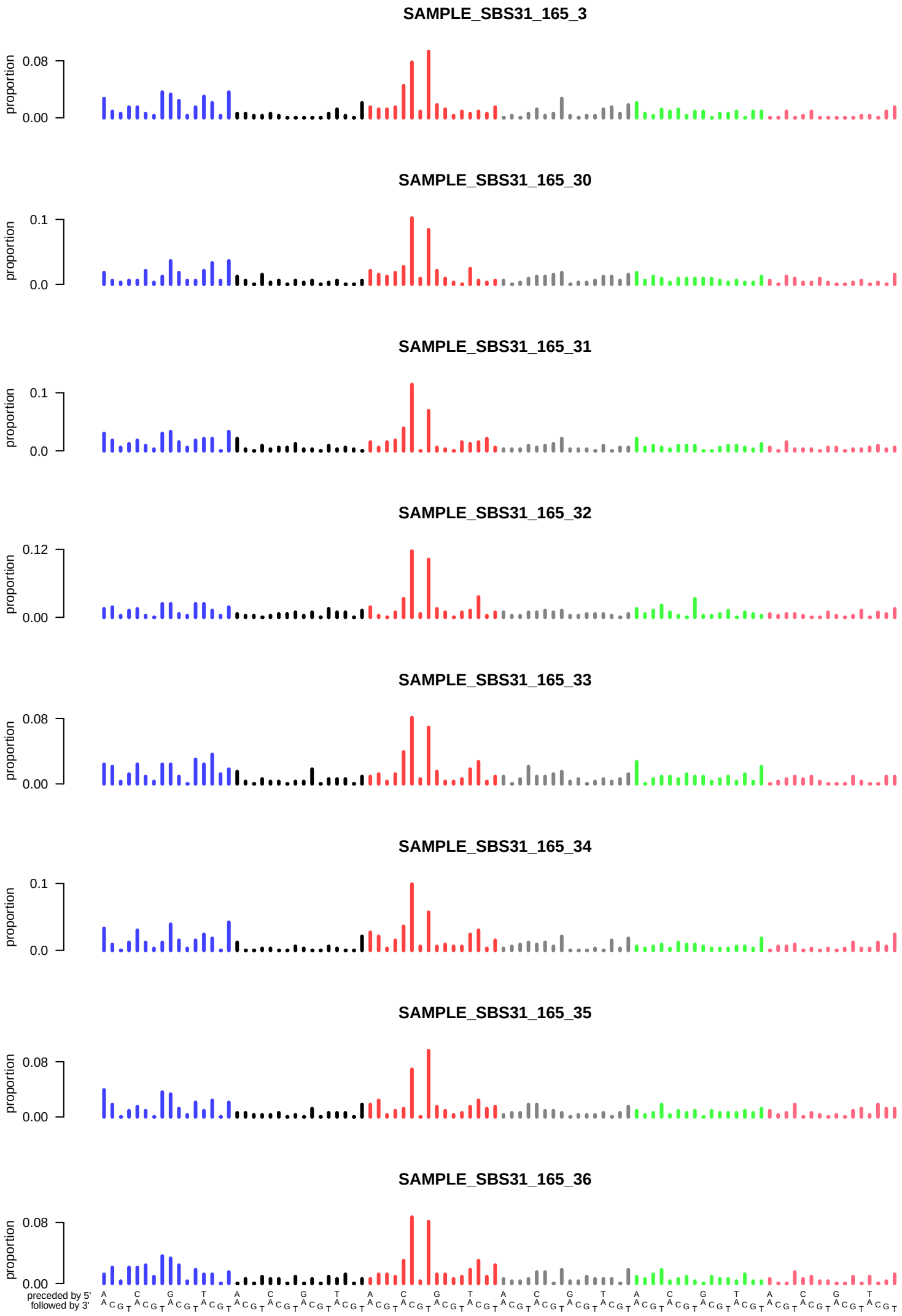
followed by 3'
A C G T A C G T A C G T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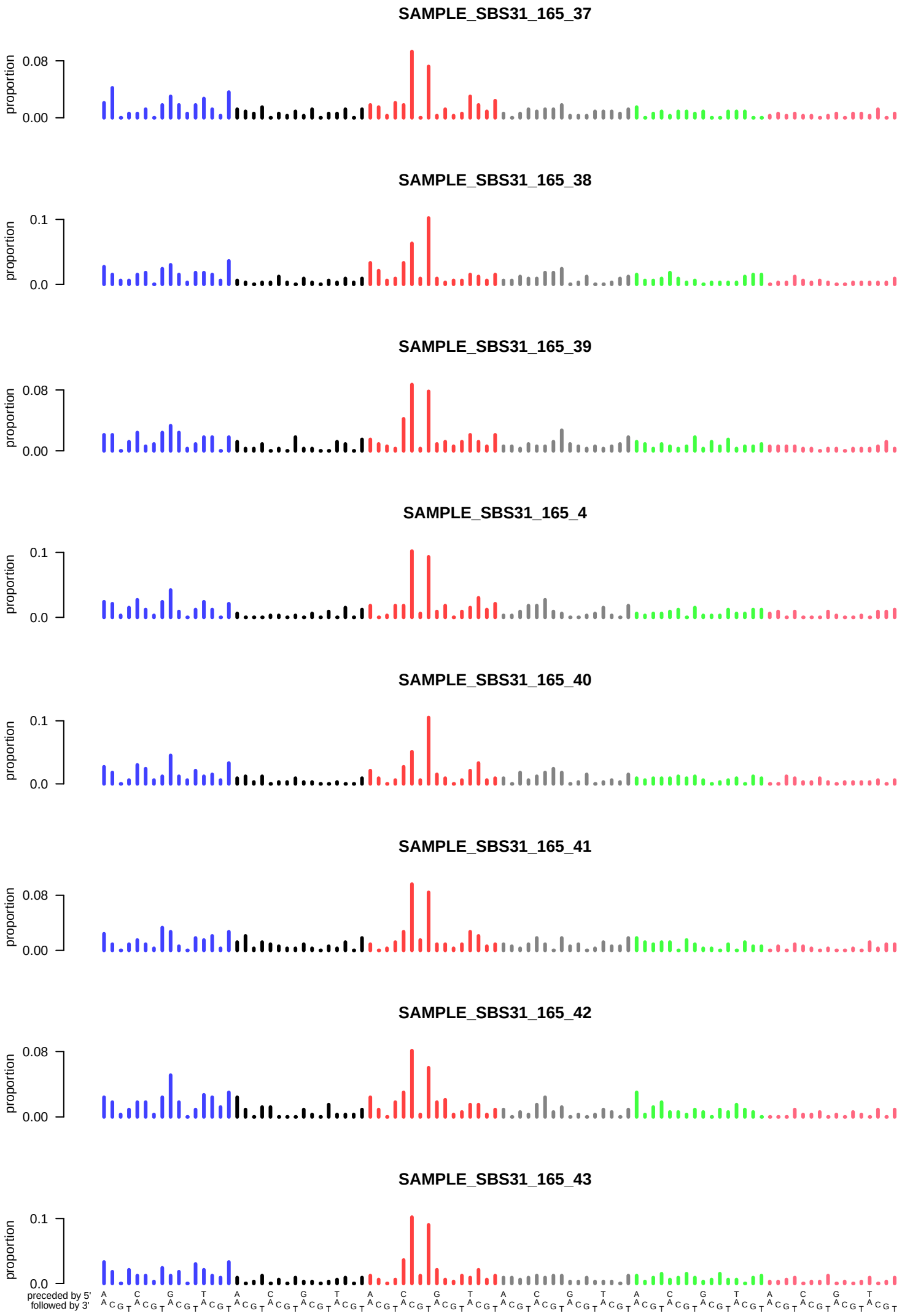
followed by 3'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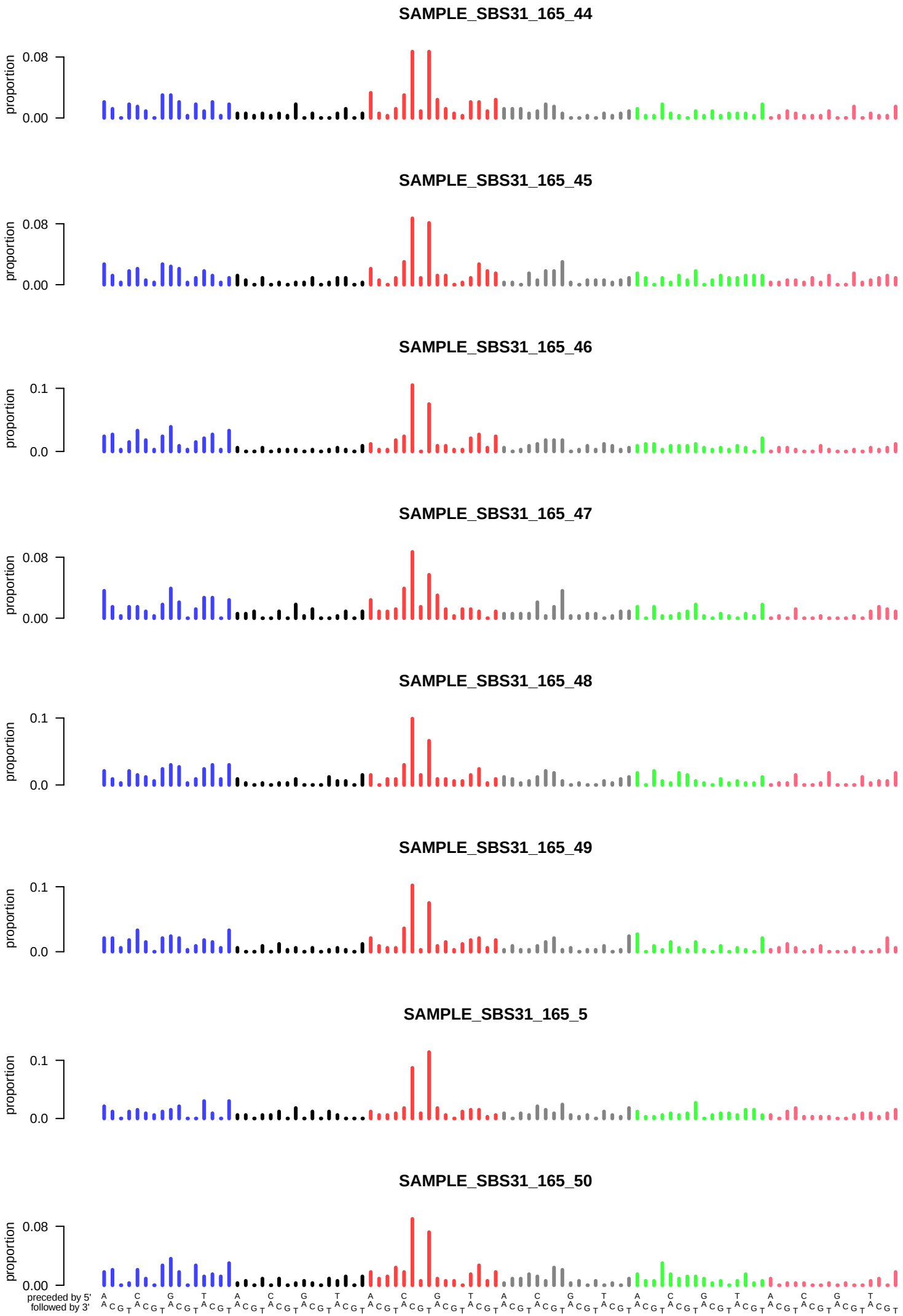
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SAMPLE_SBS31_165_5
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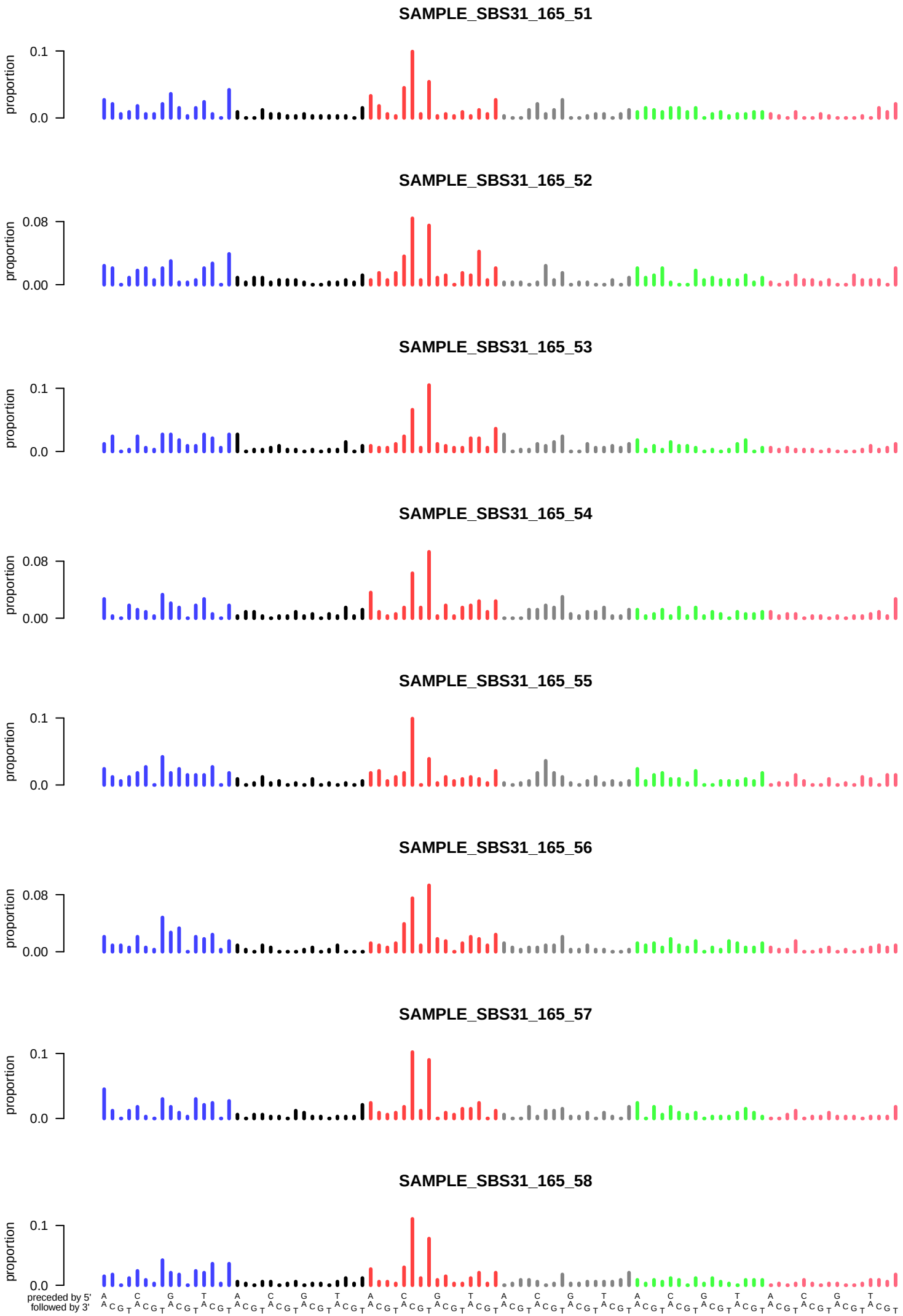
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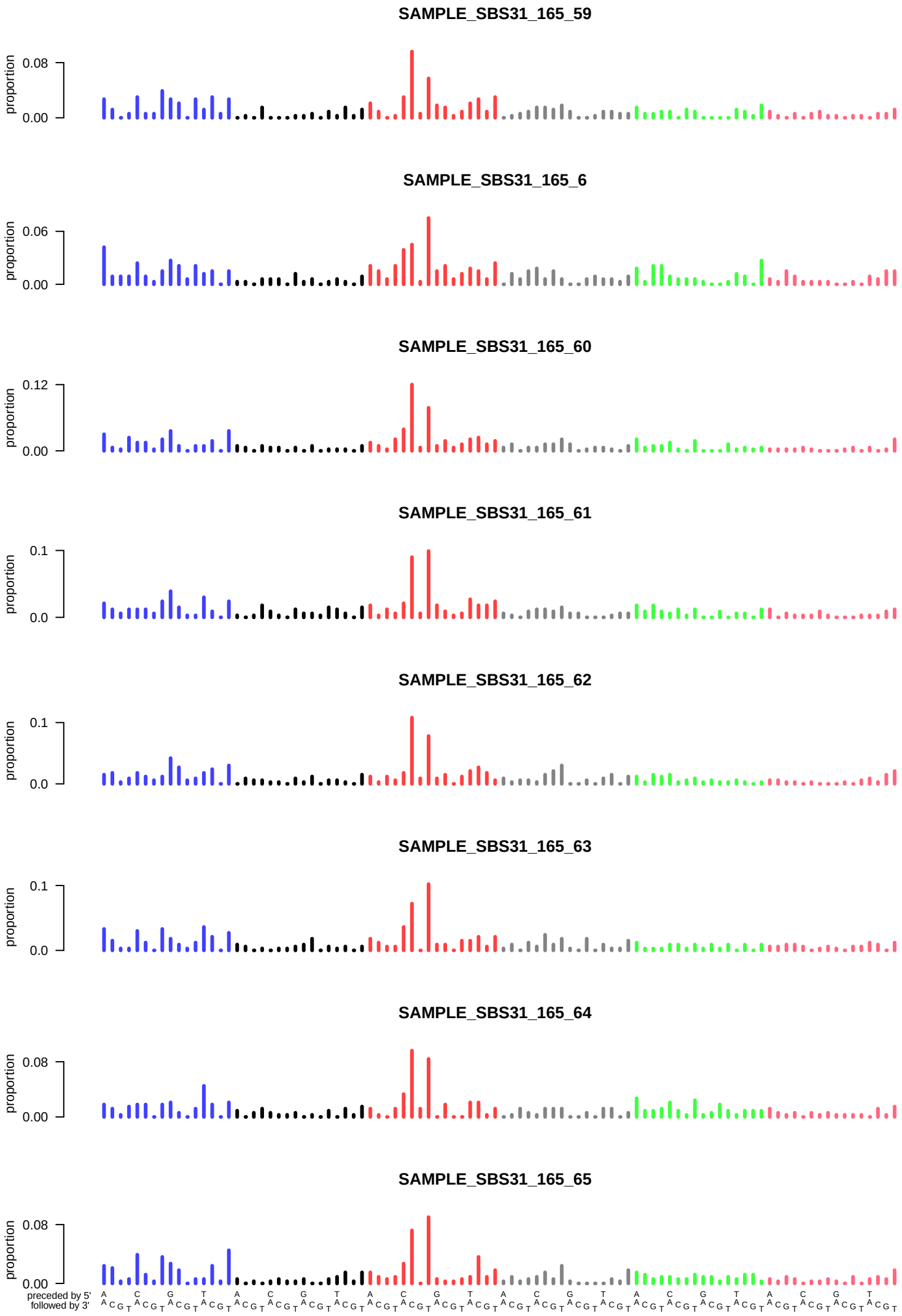
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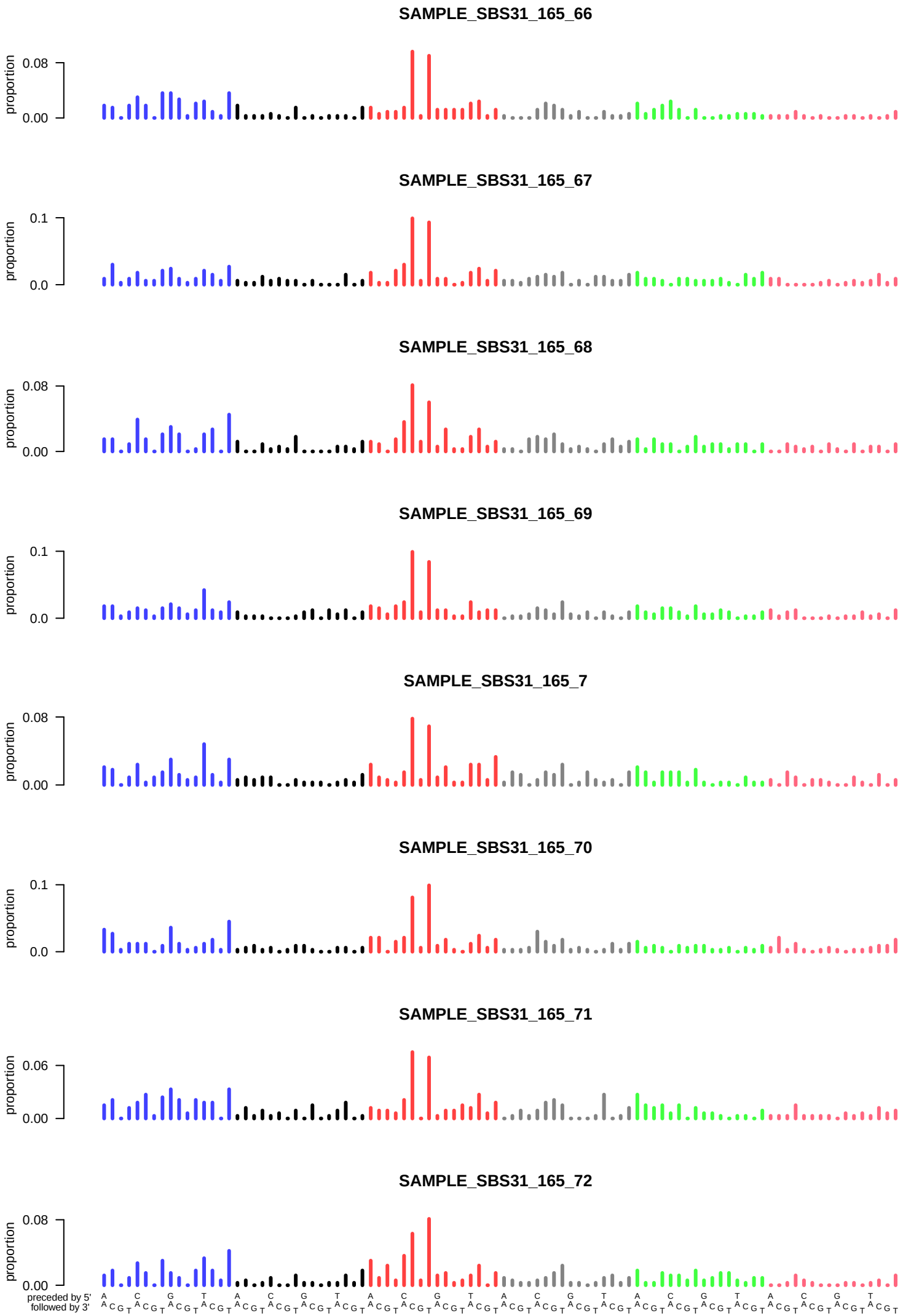
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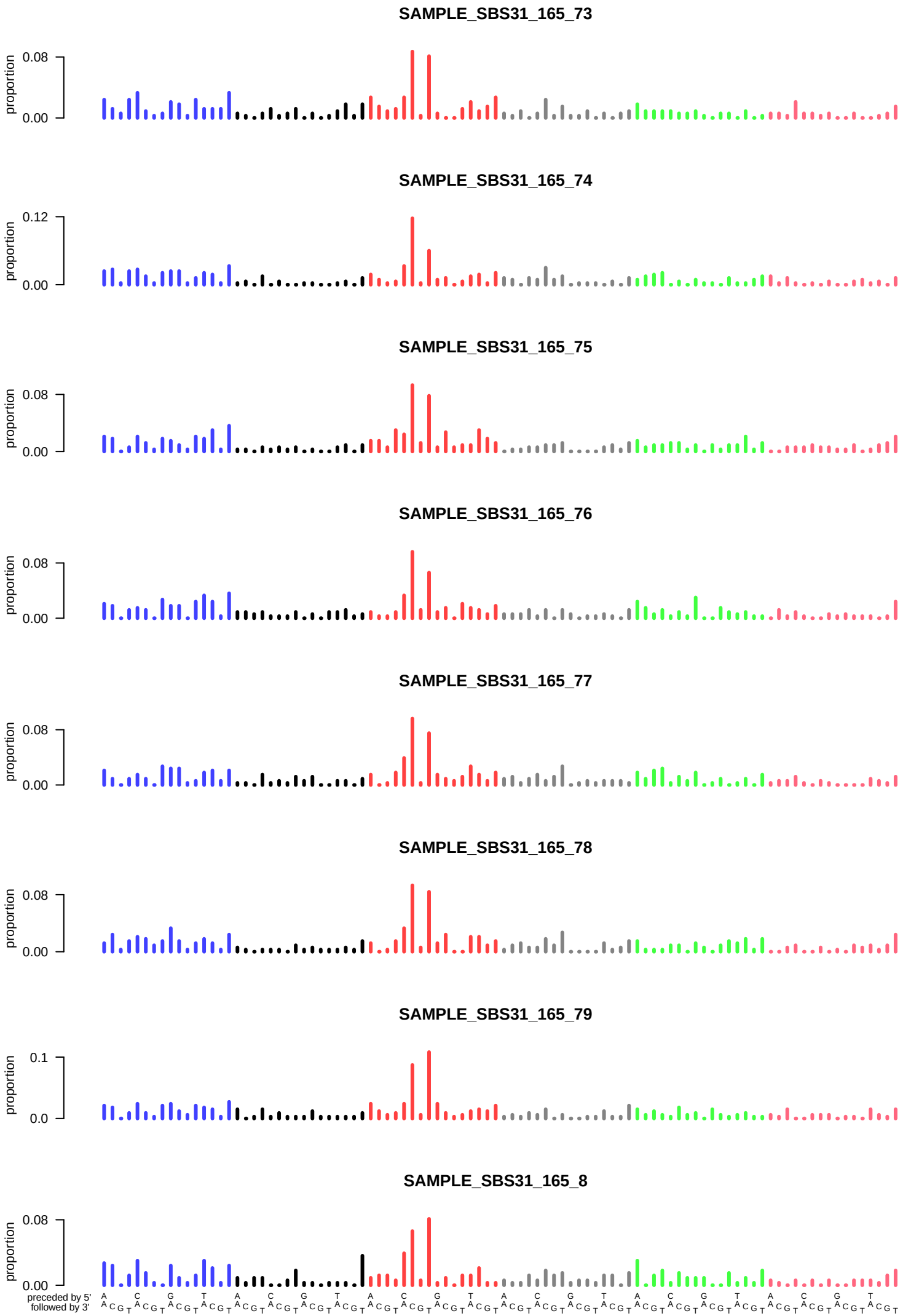
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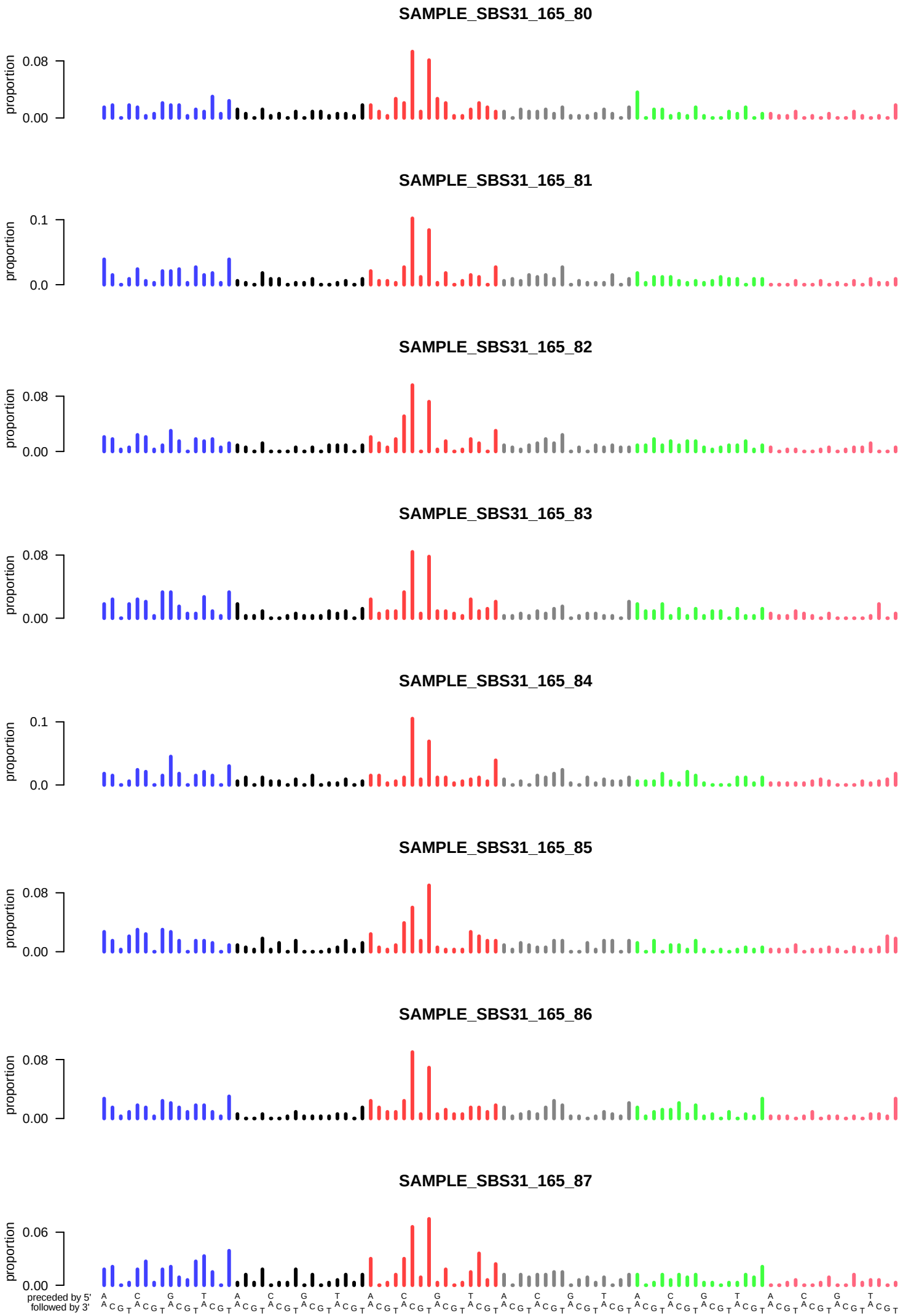
followed by 3'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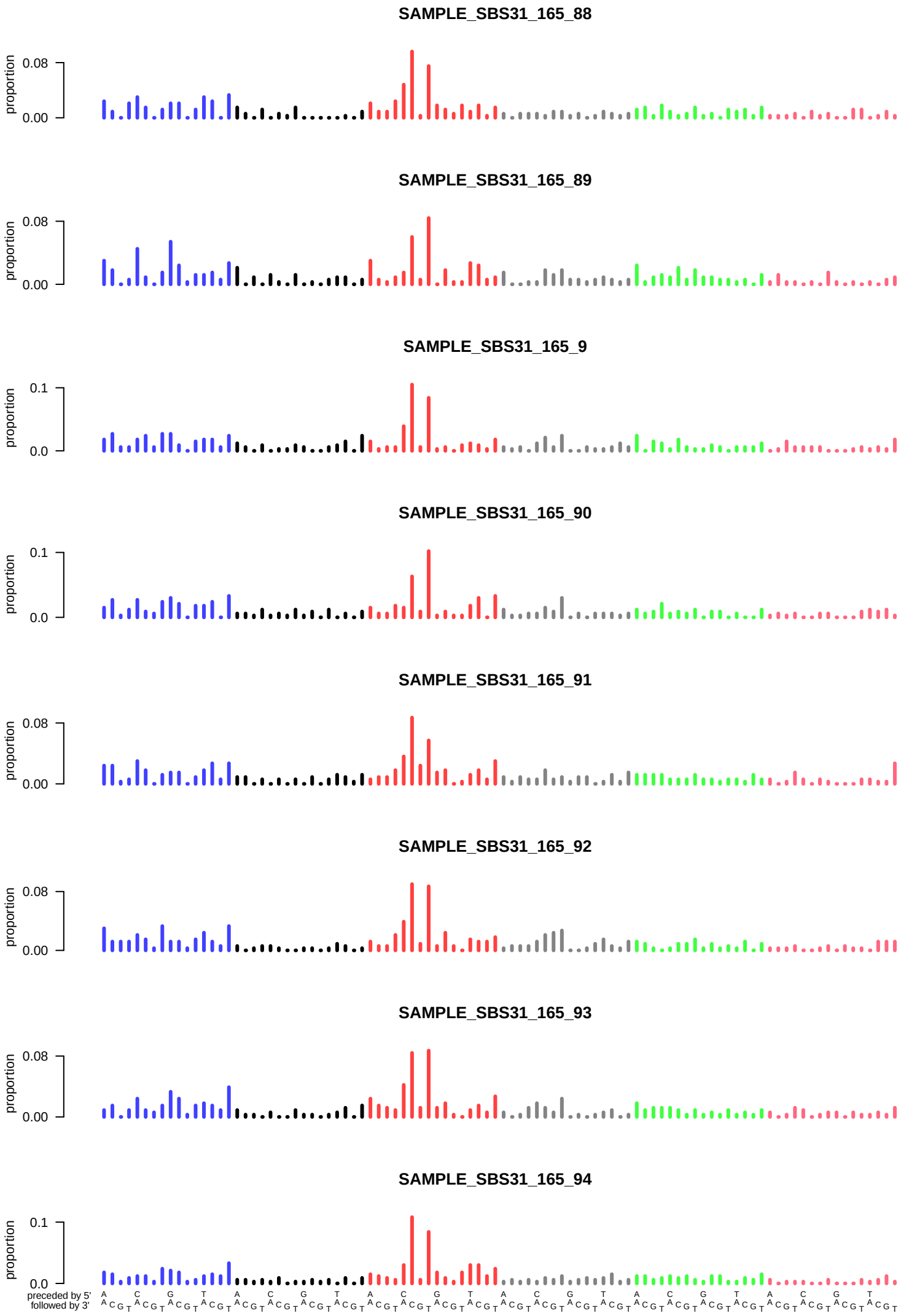
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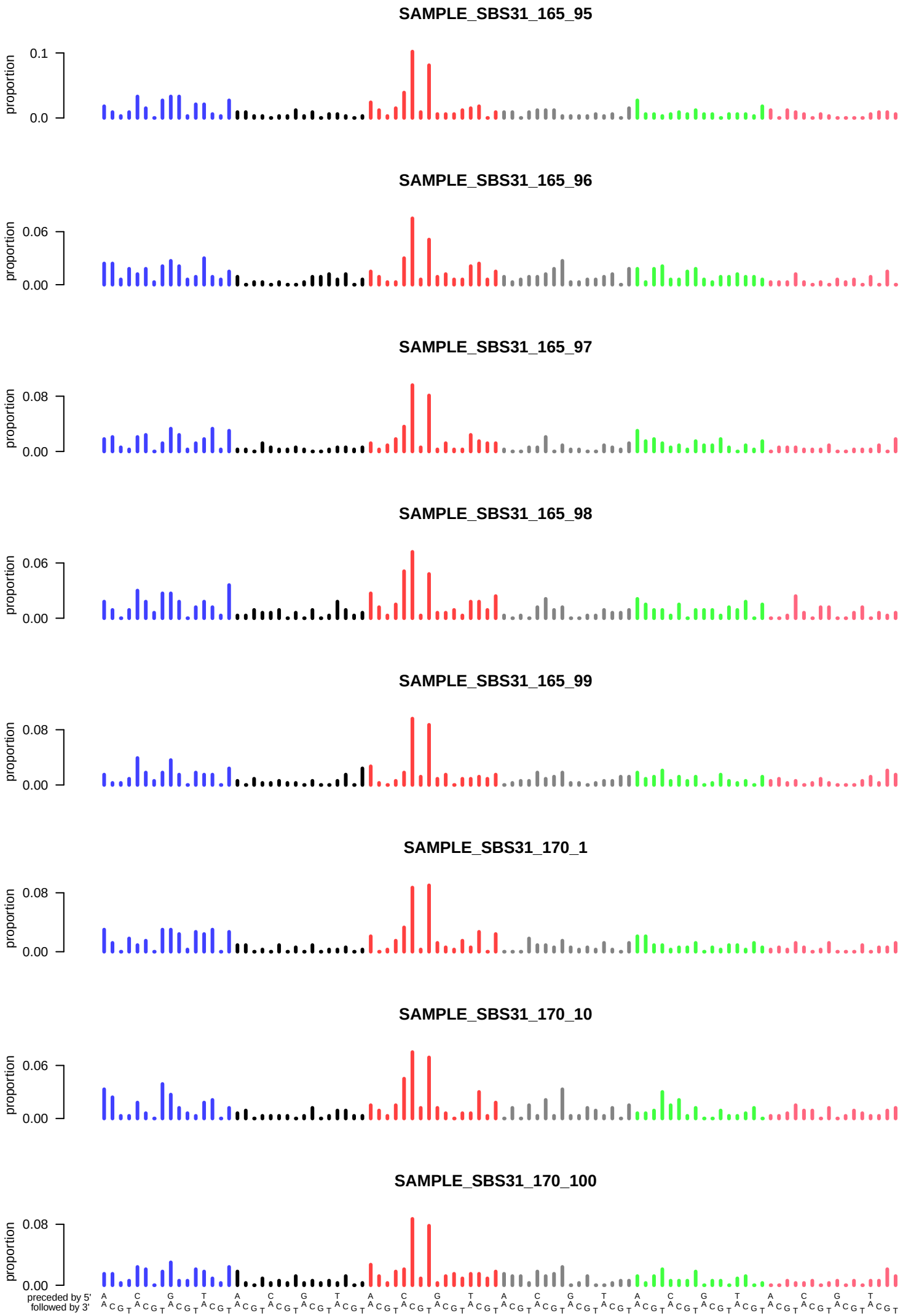
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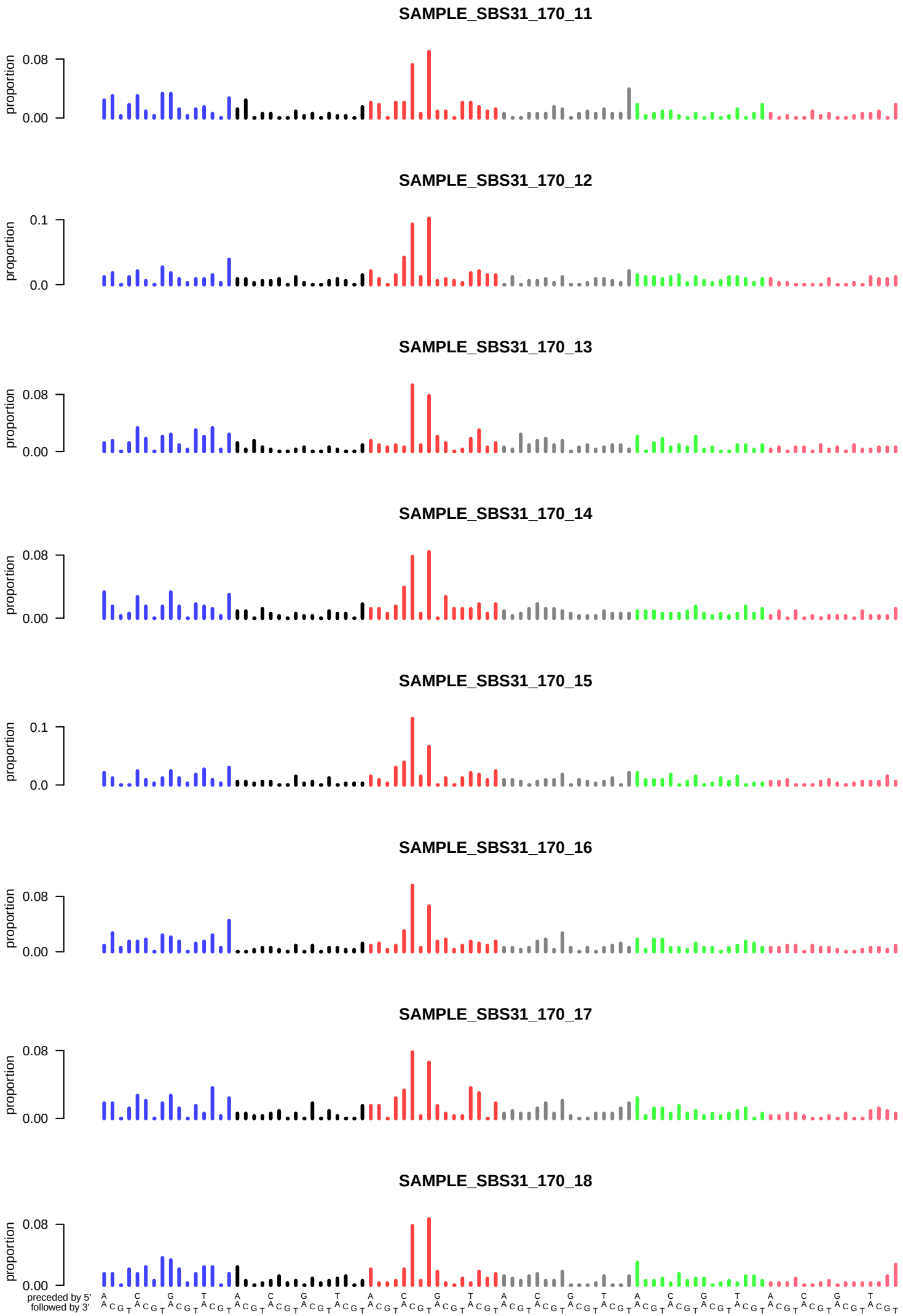
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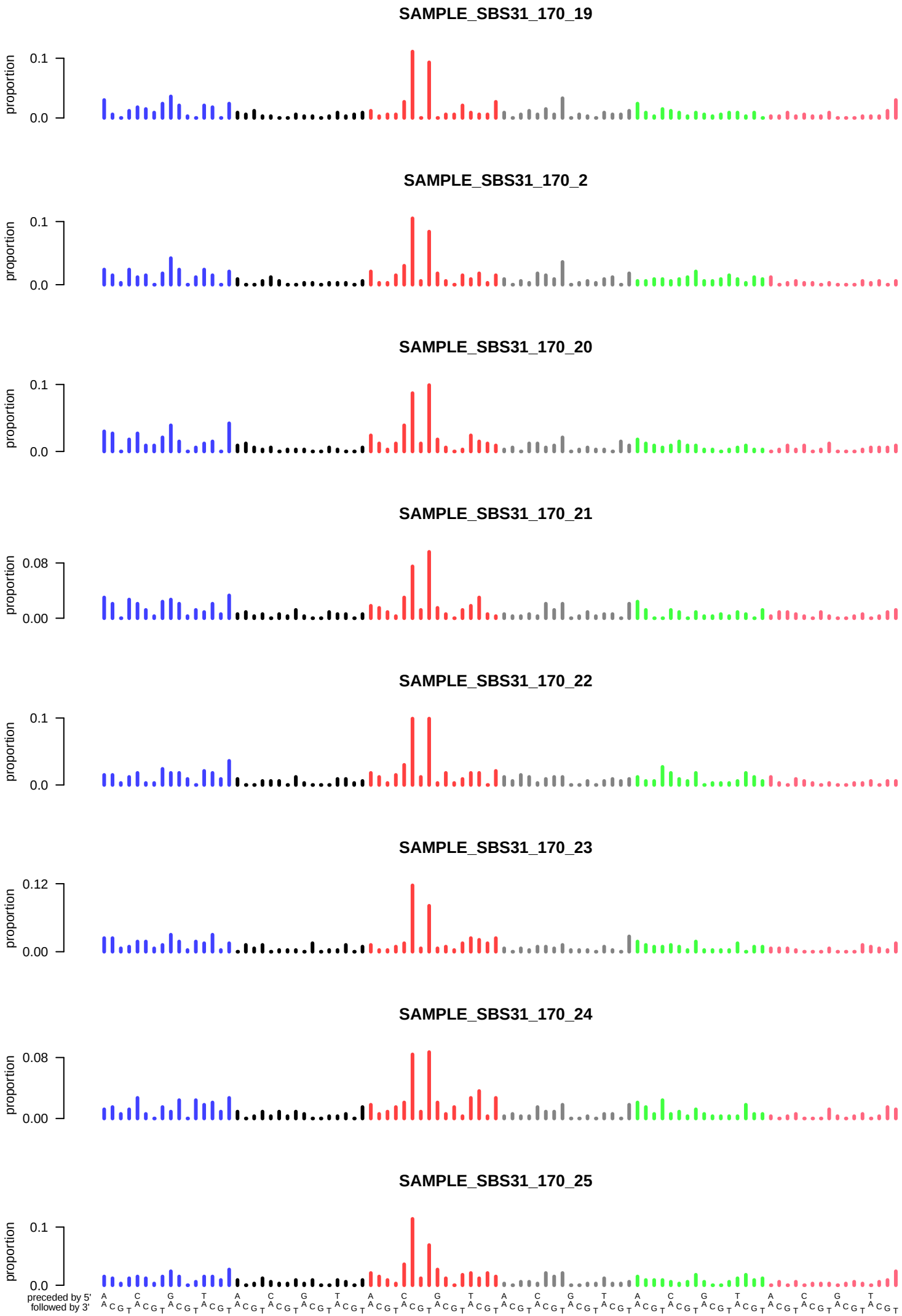
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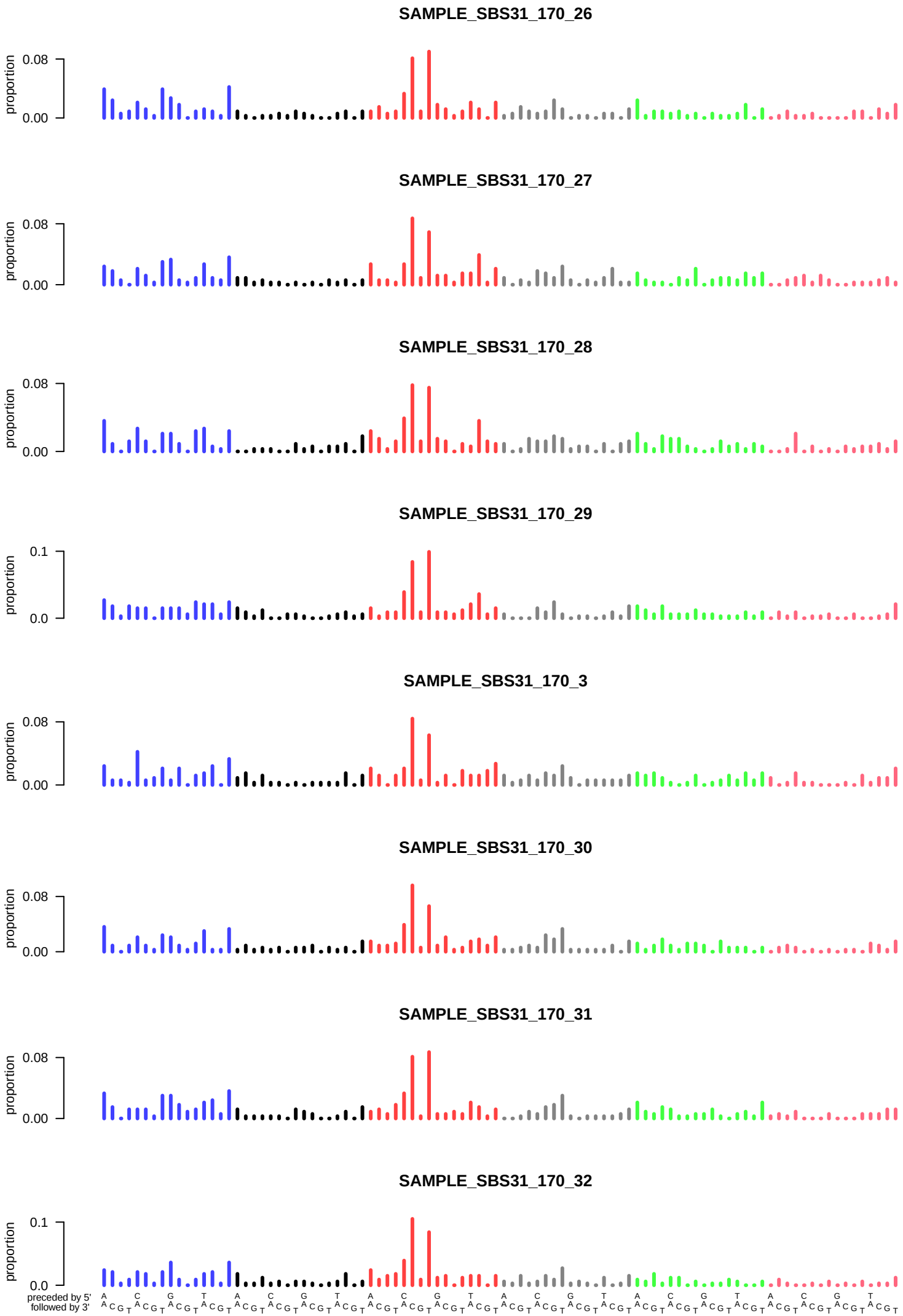
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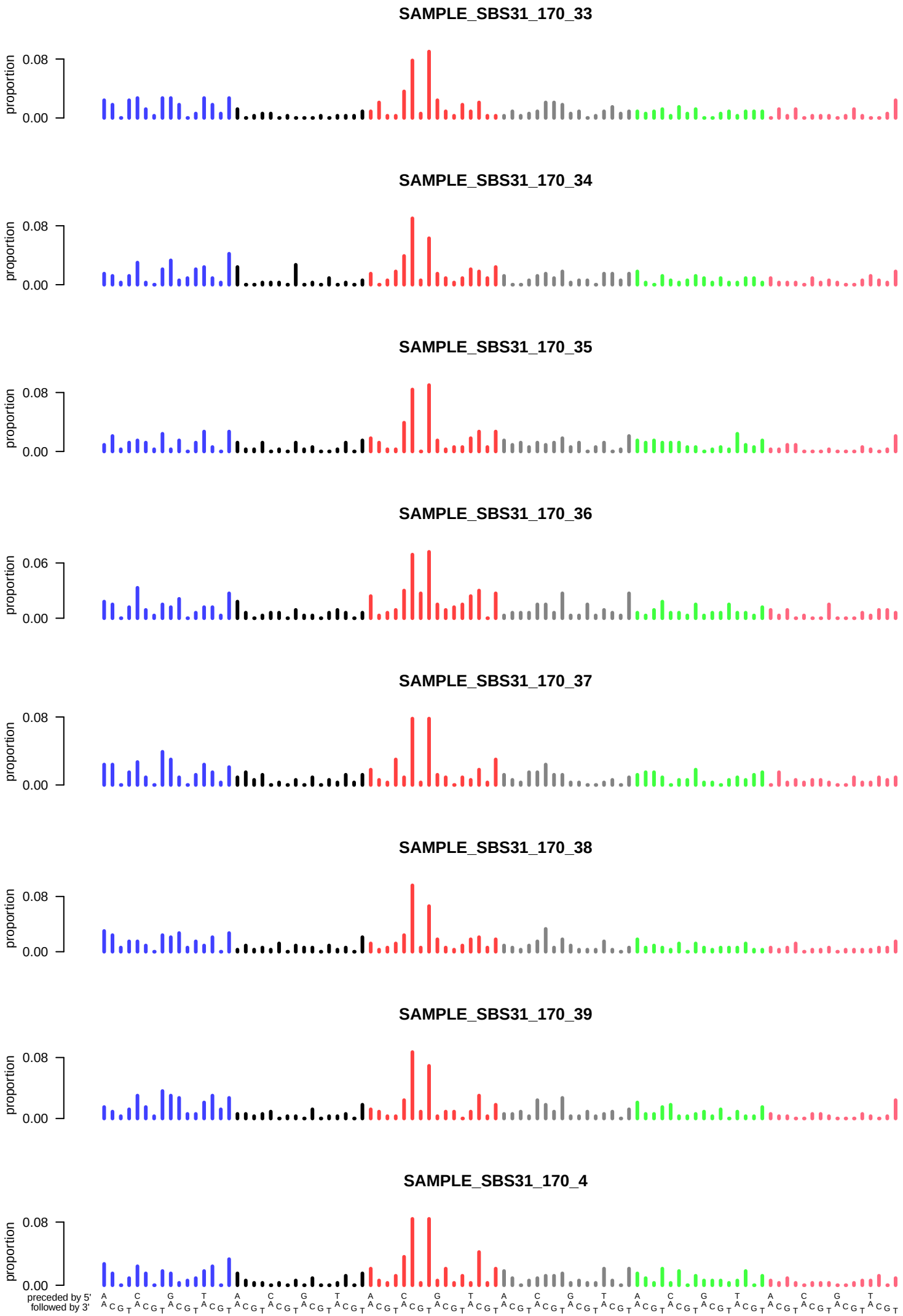
A C G T A C G T A C G T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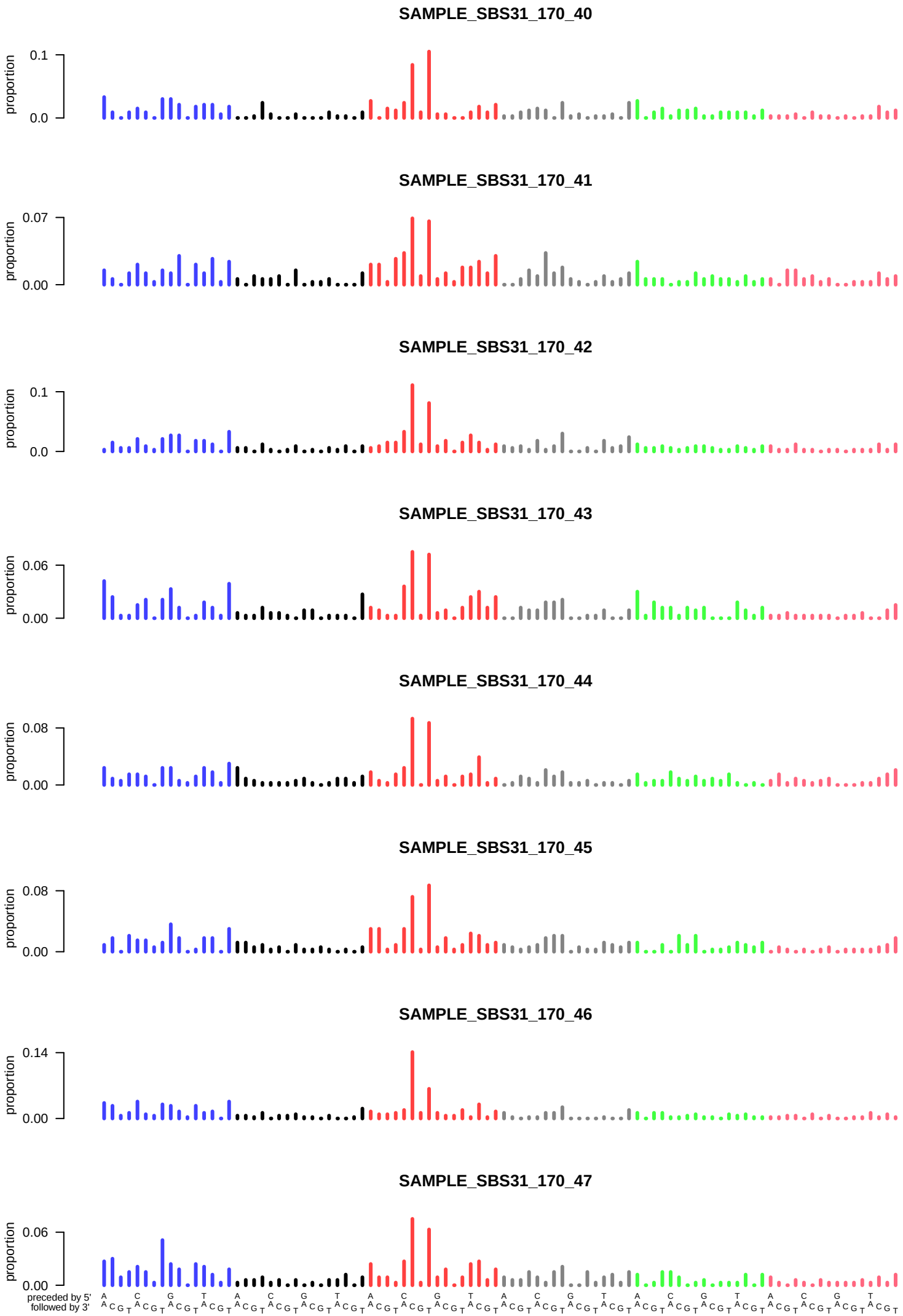
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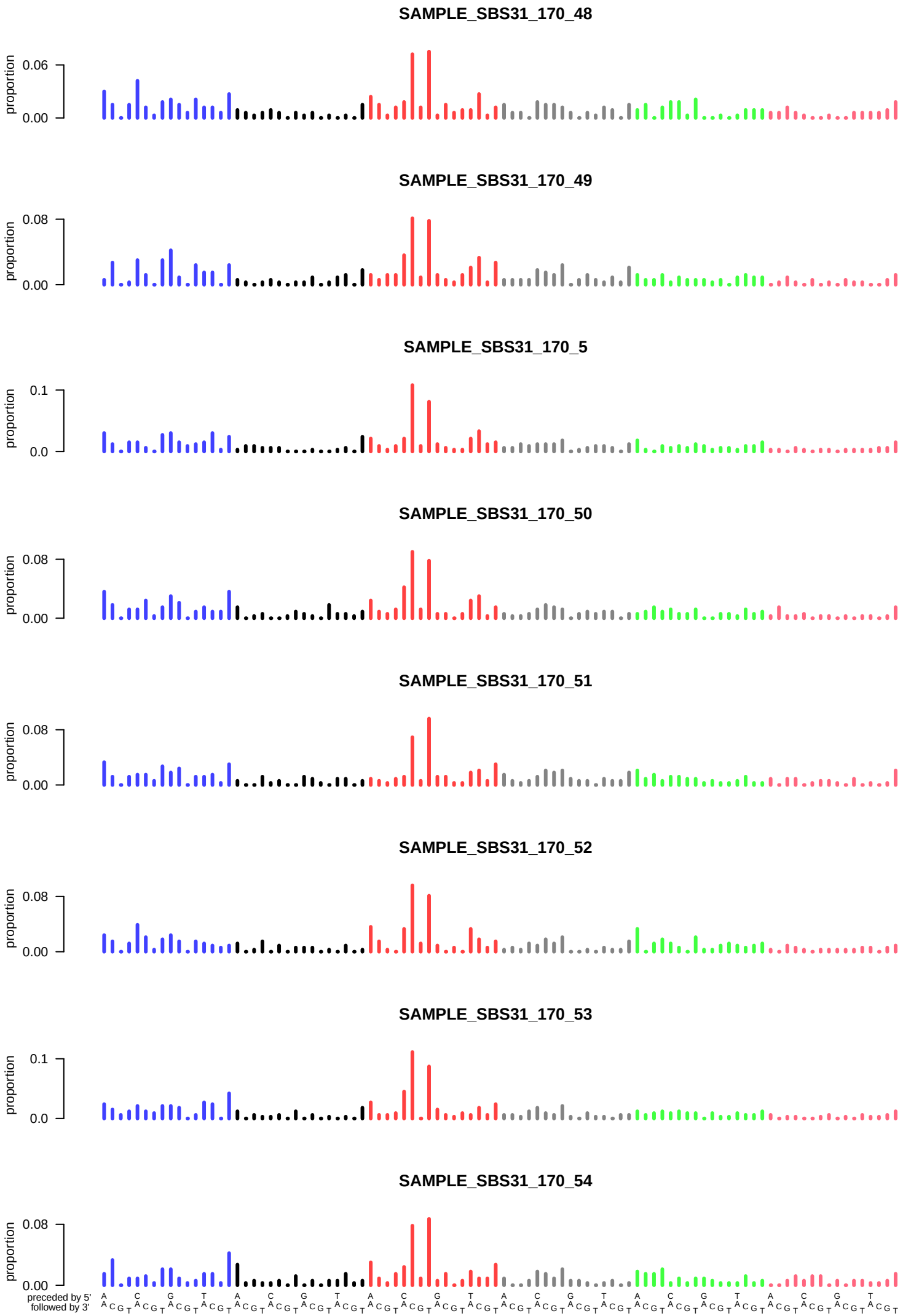
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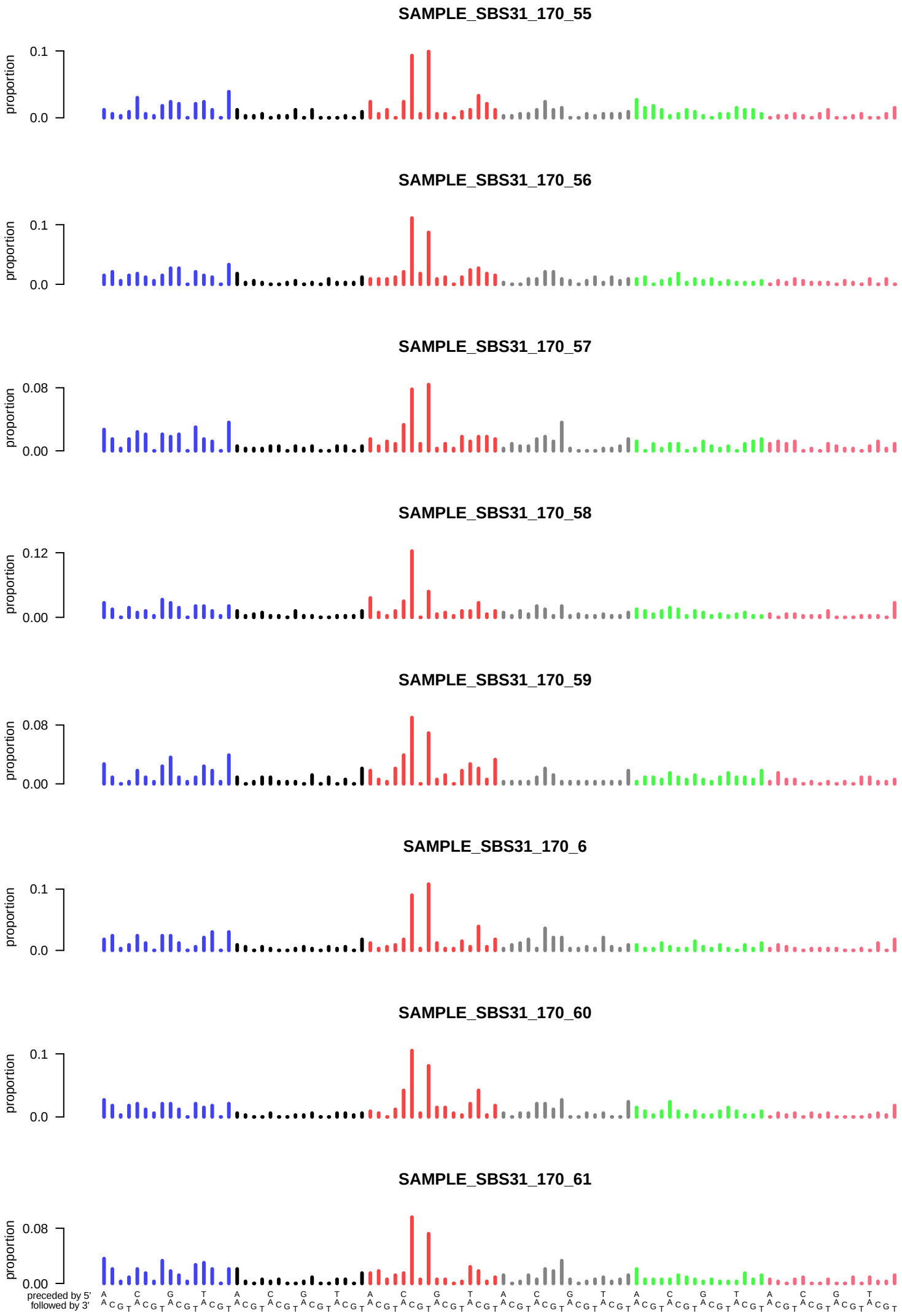
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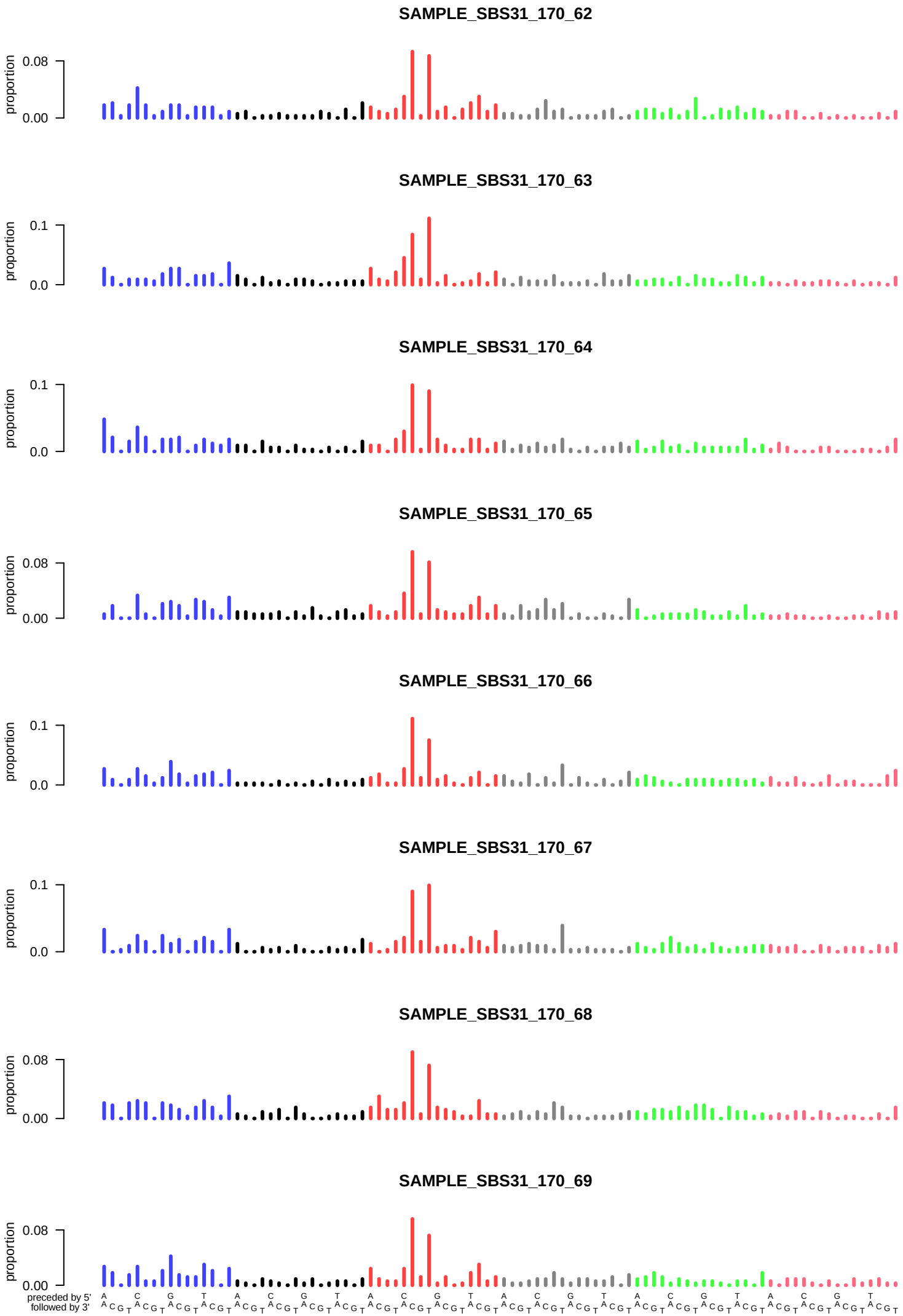
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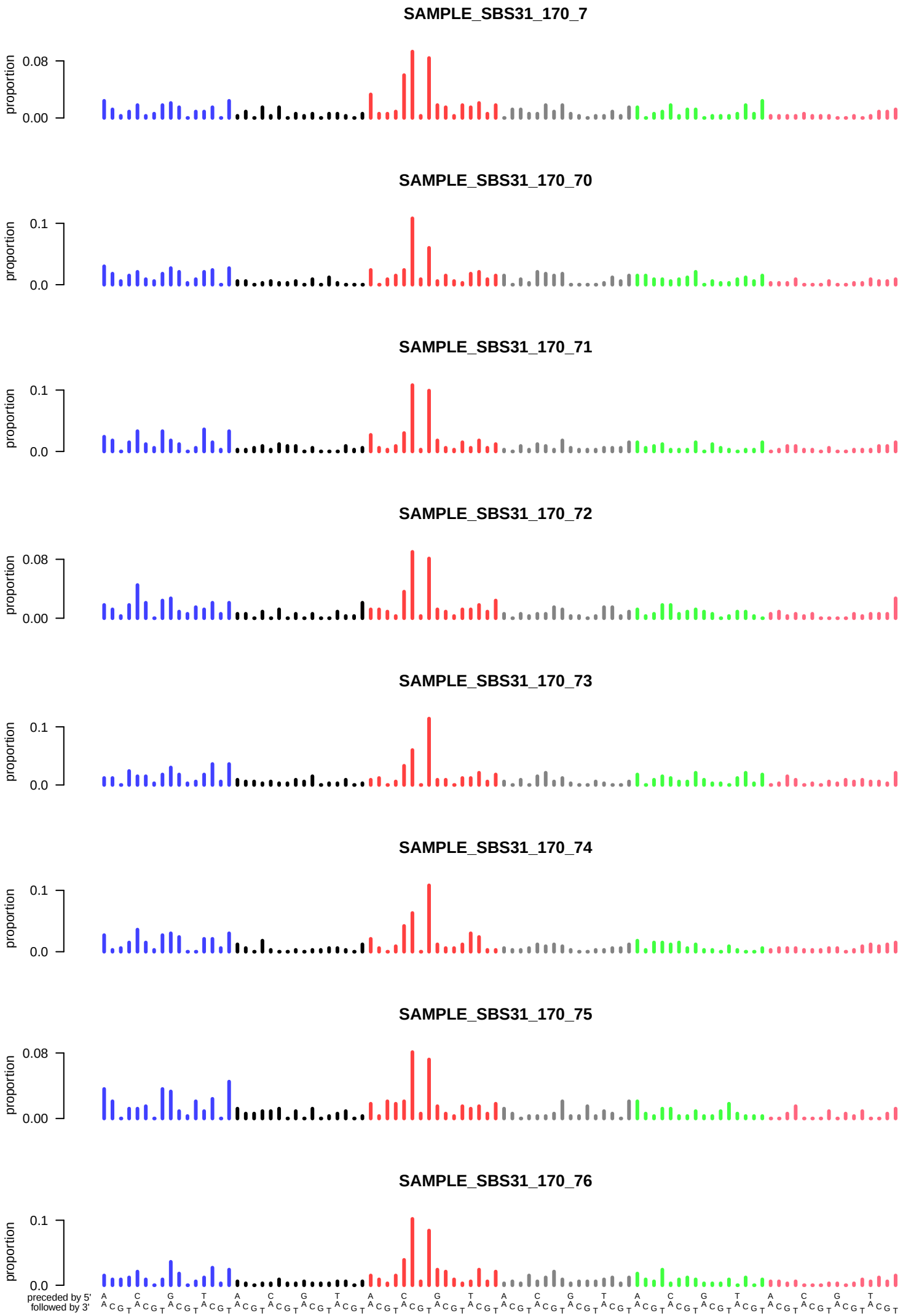
followed by 3'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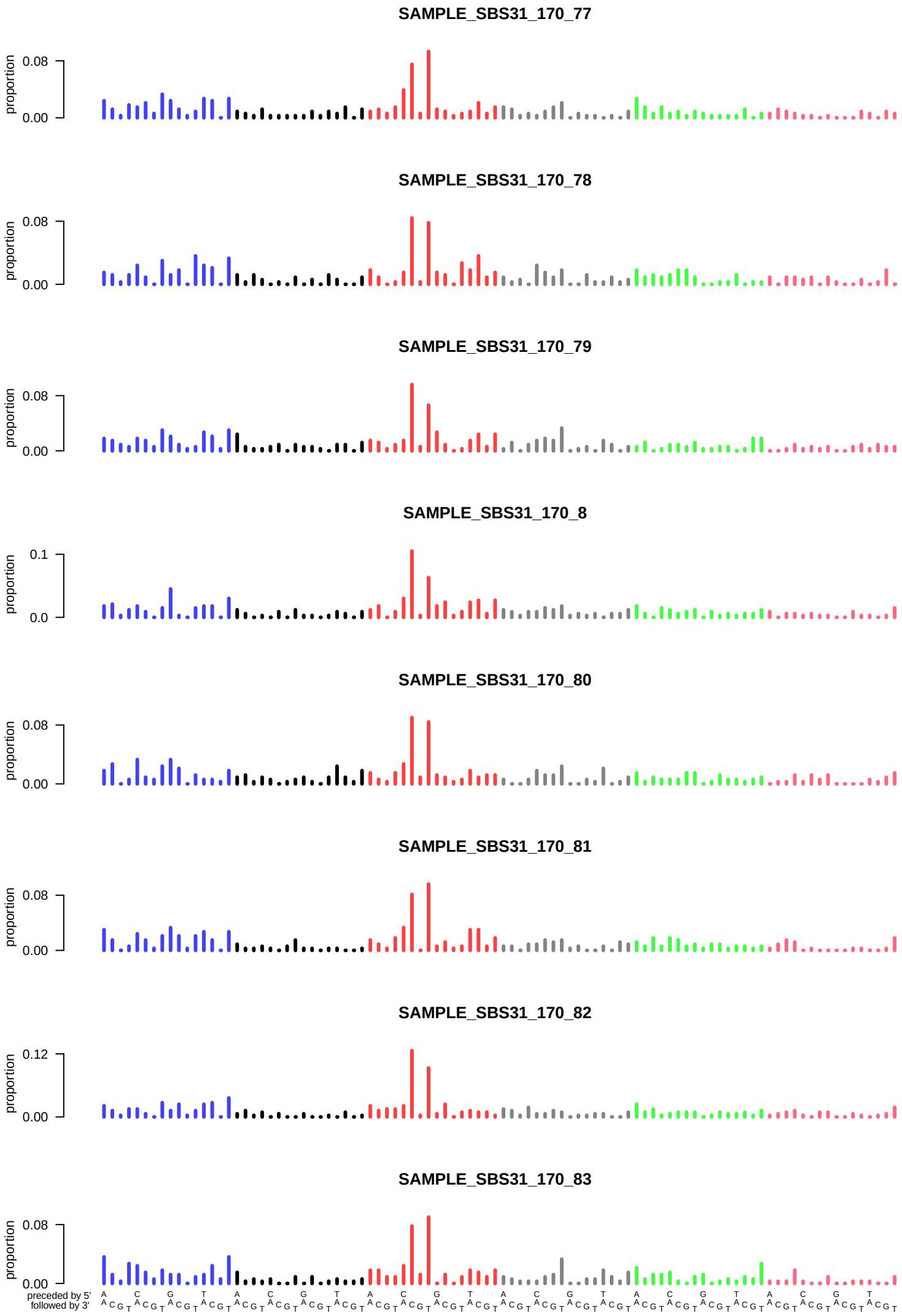
followed by 3'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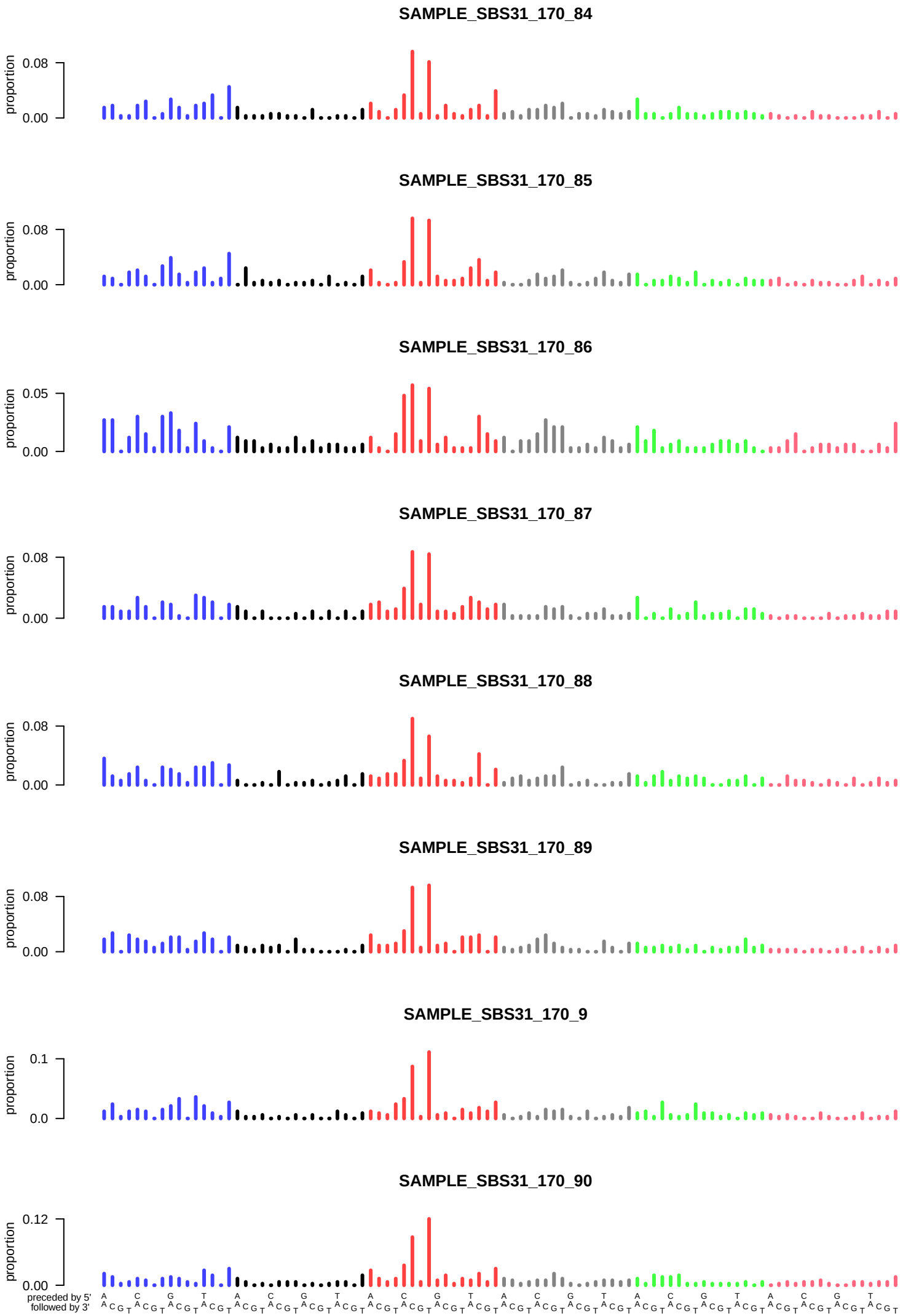
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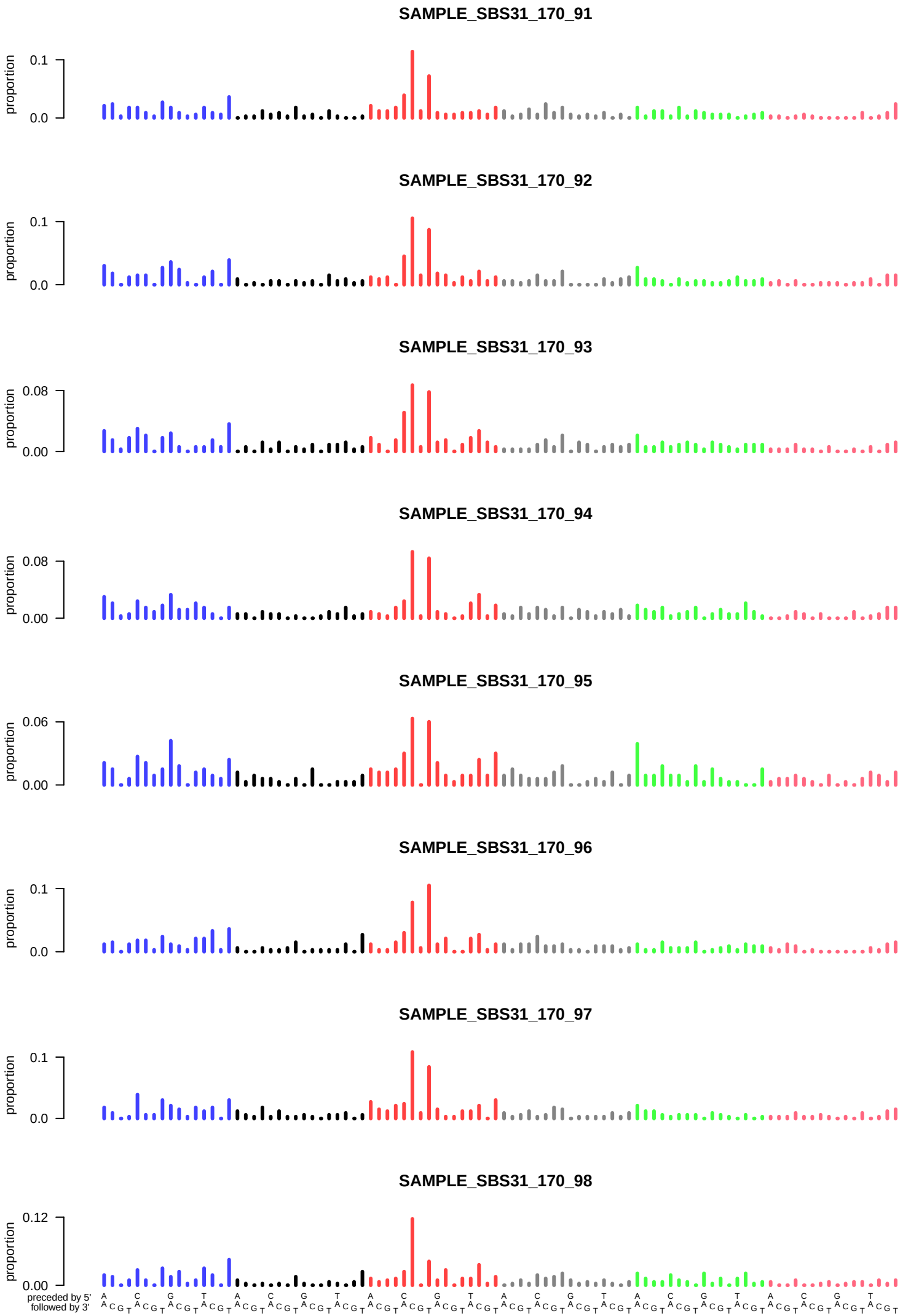
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SAMPLE_SBS31_170_97
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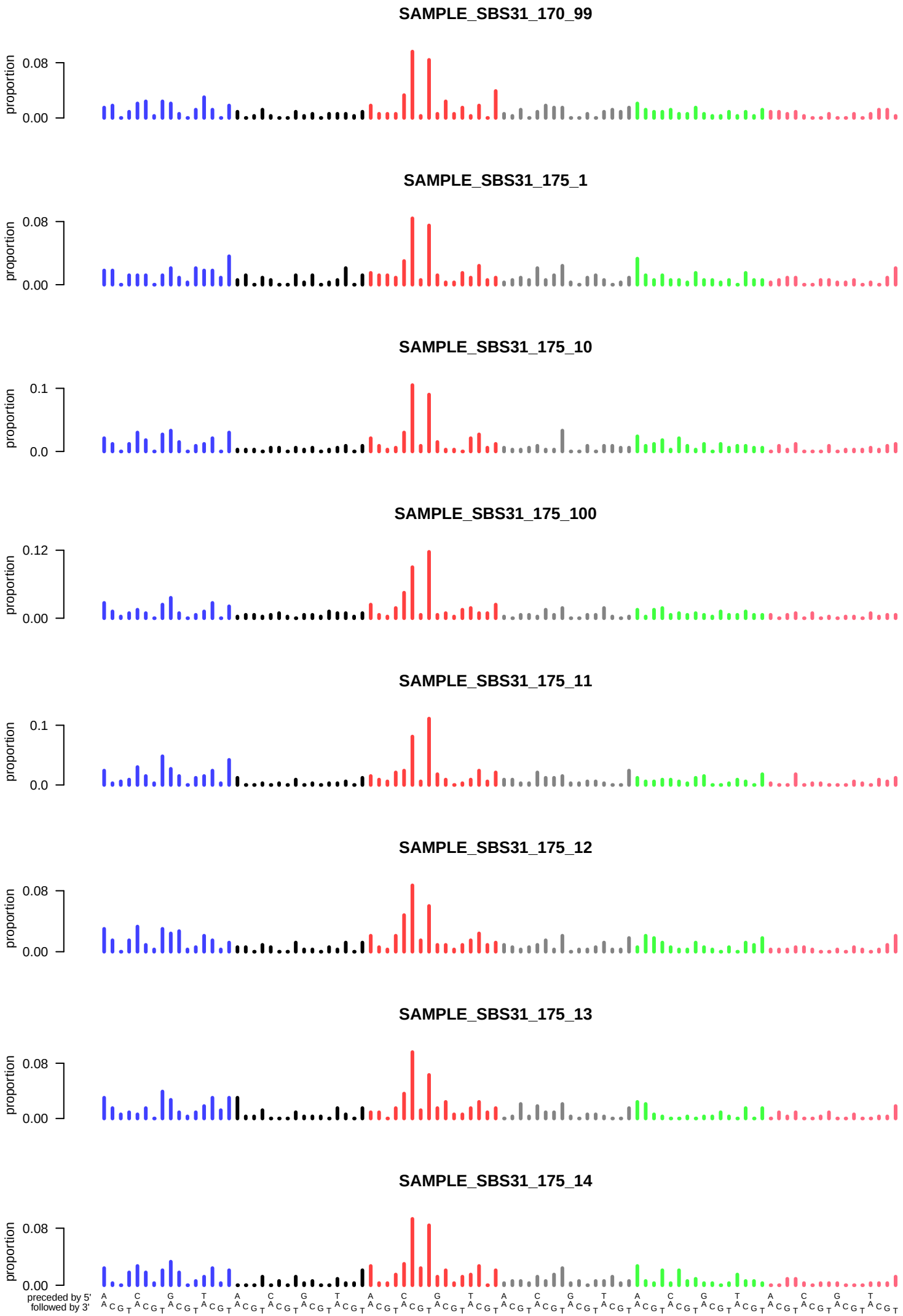
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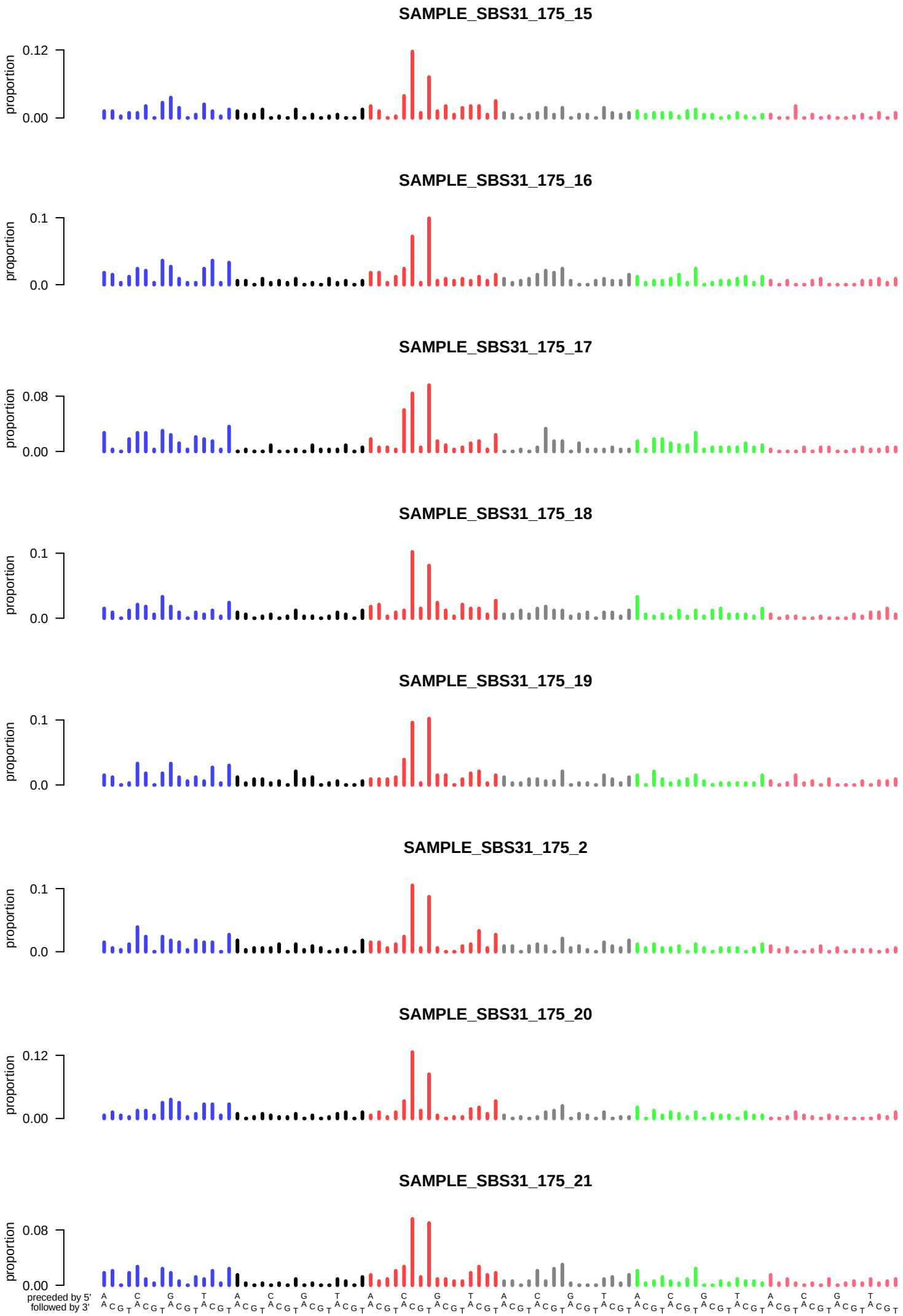
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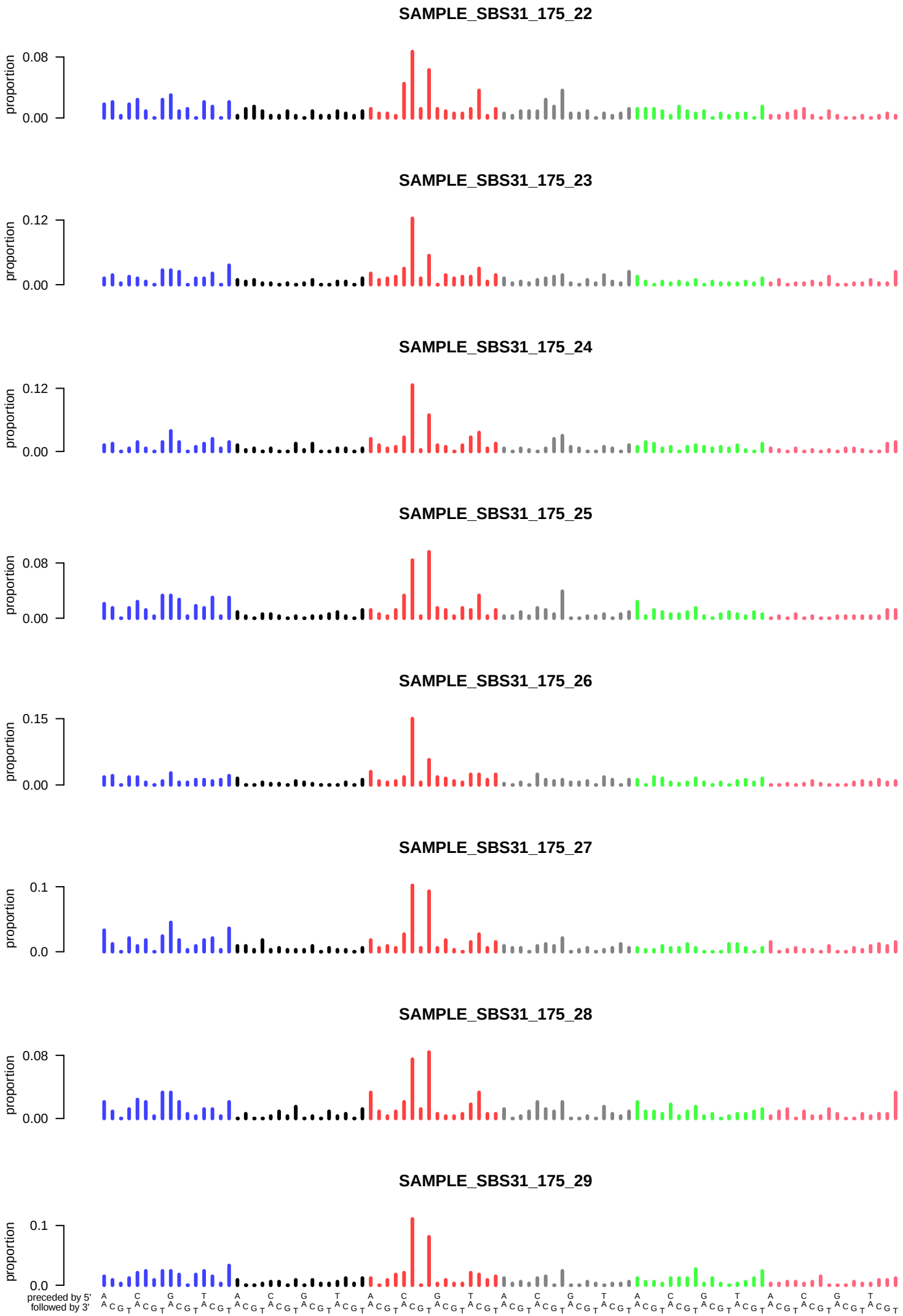
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SAMPLE_SBS31_175_25
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SAMPLE_SBS31_175_26
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SAMPLE_SBS31_175_27
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SAMPLE_SBS31_175_28
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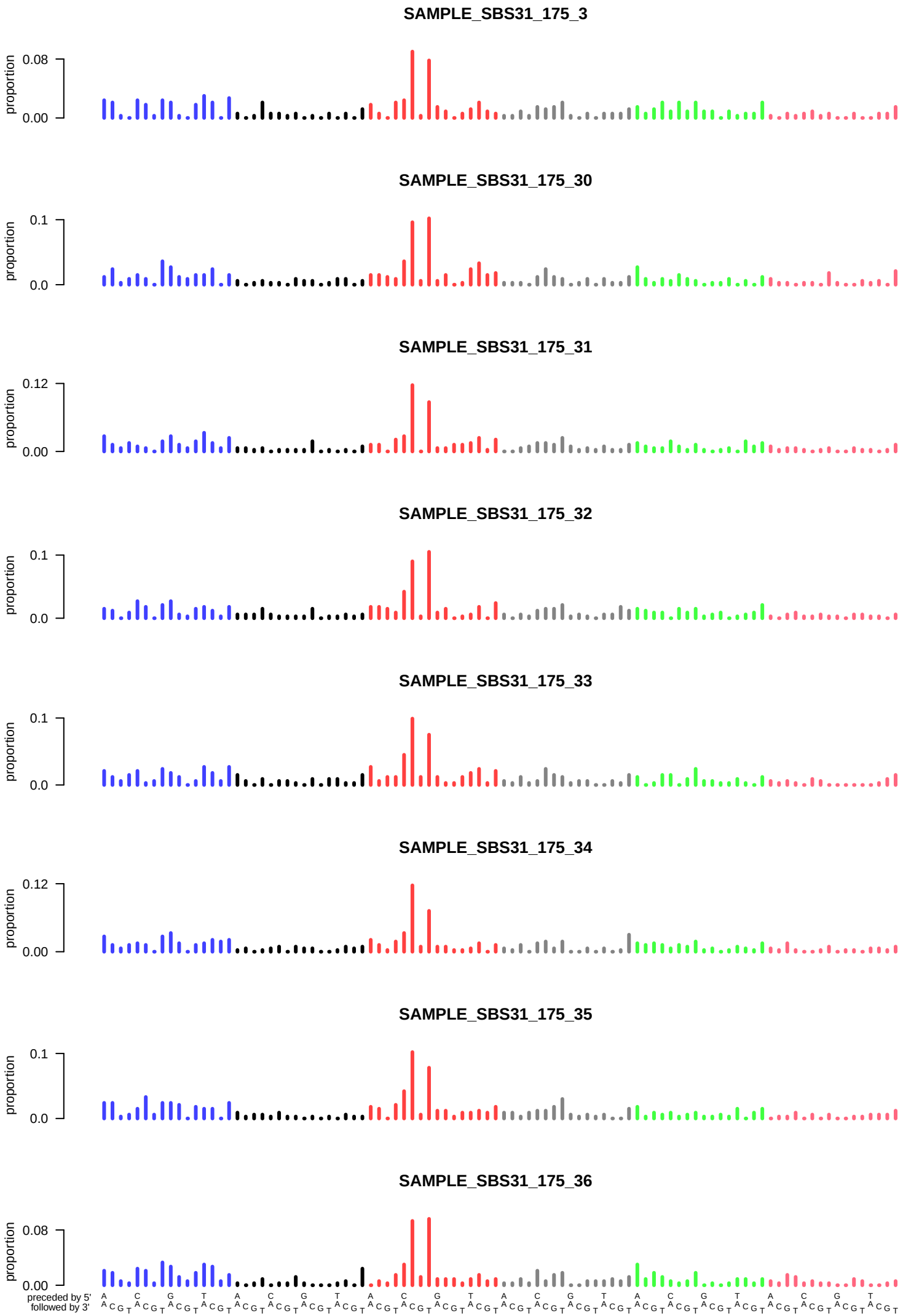
followed by 3'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SAMPLE_SBS31_175_34
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SAMPLE_SBS31_175_35
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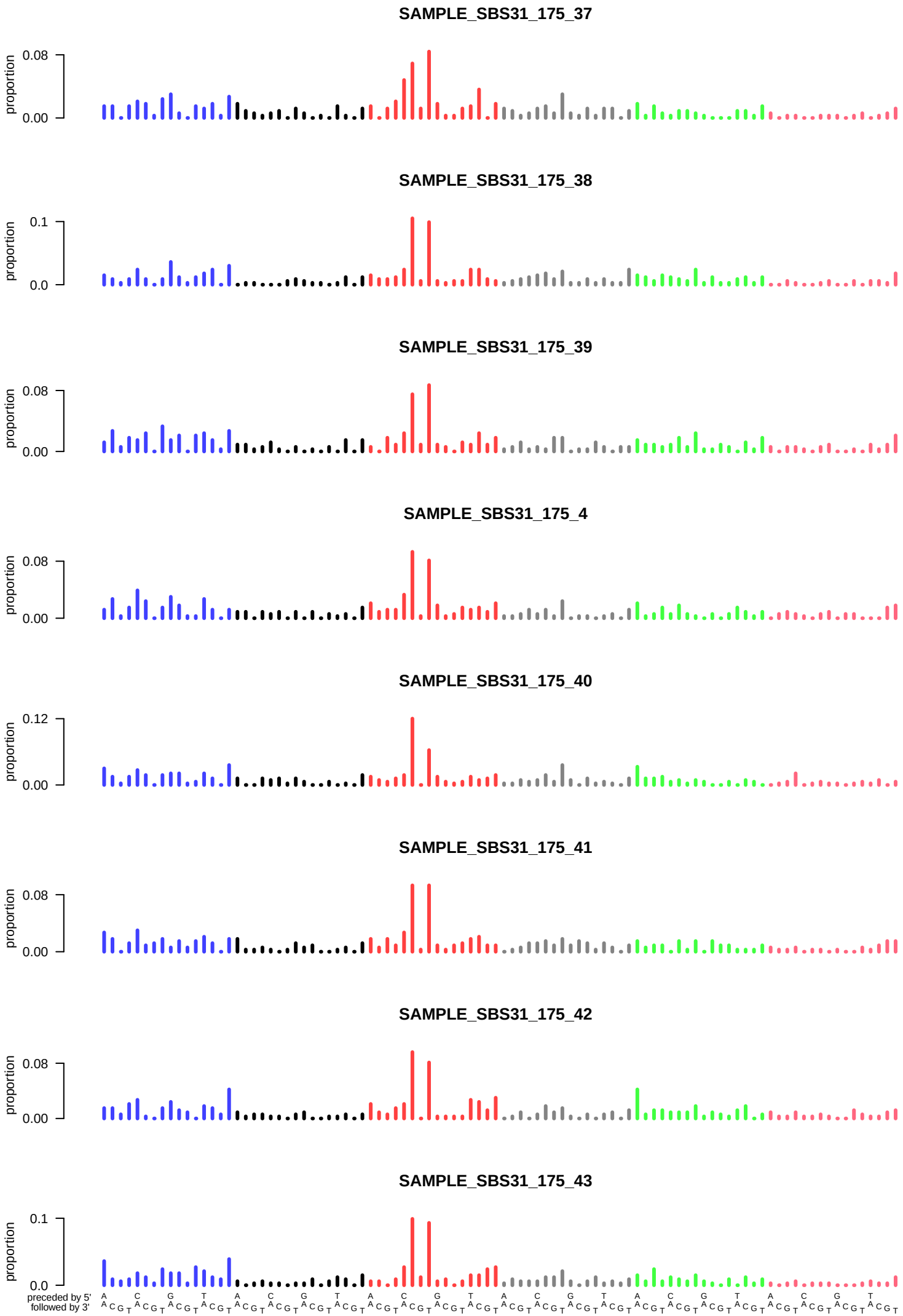
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SAMPLE_SBS31_175_40
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SAMPLE_SBS31_175_41
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SAMPLE_SBS31_175_42
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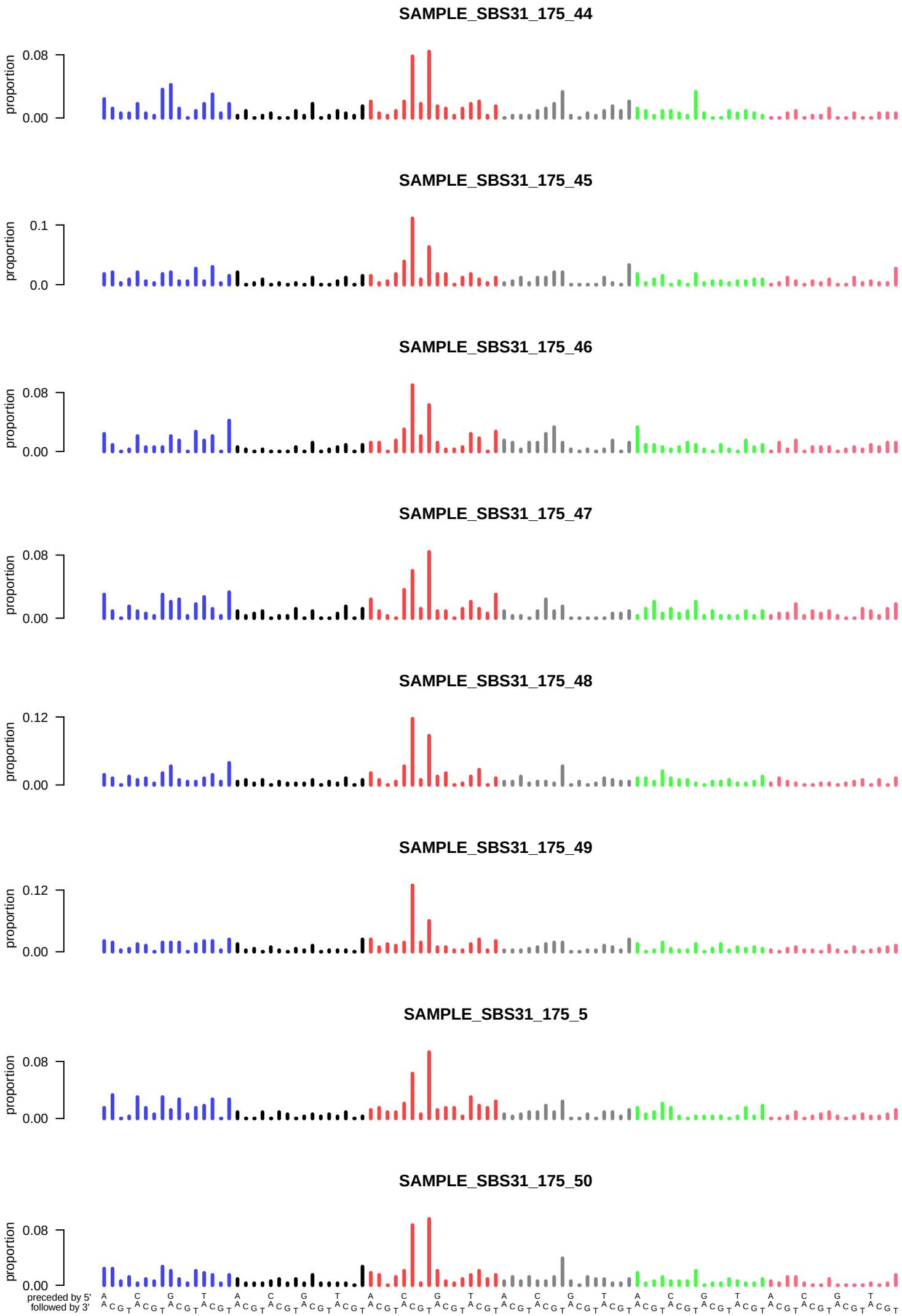
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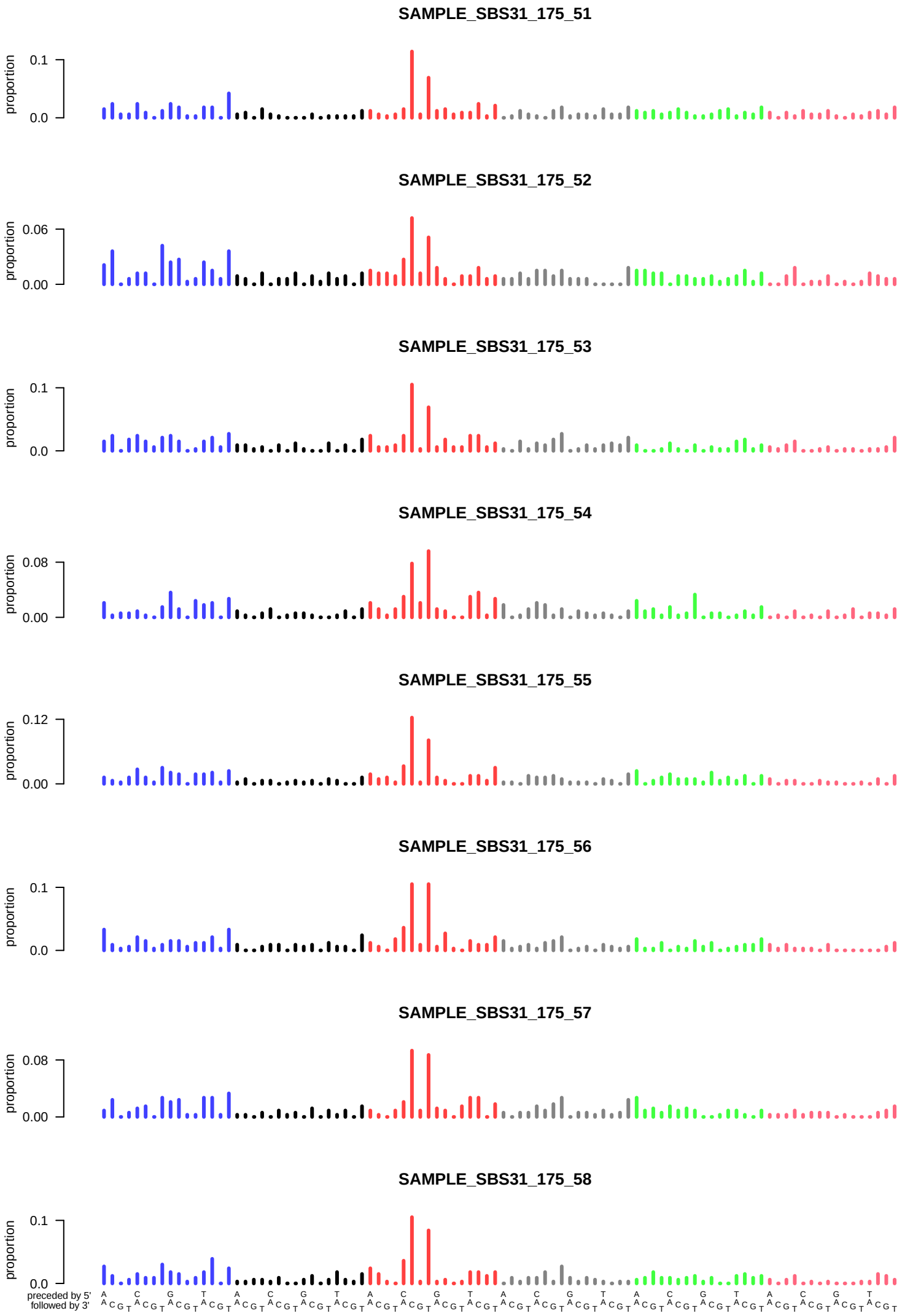
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SAMPLE_SBS31_175_57
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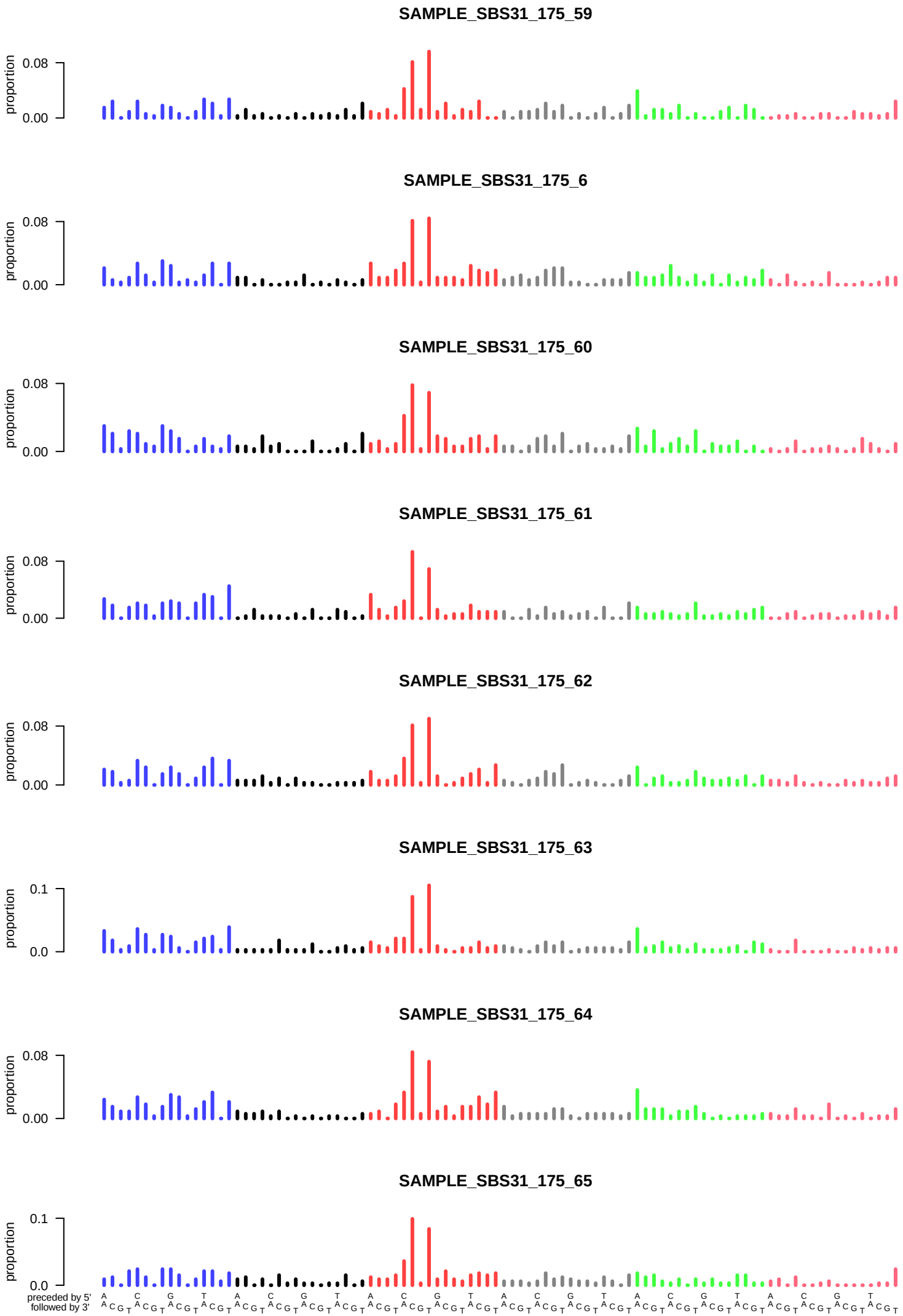
followed by 3'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SAMPLE_SBS31_175_63
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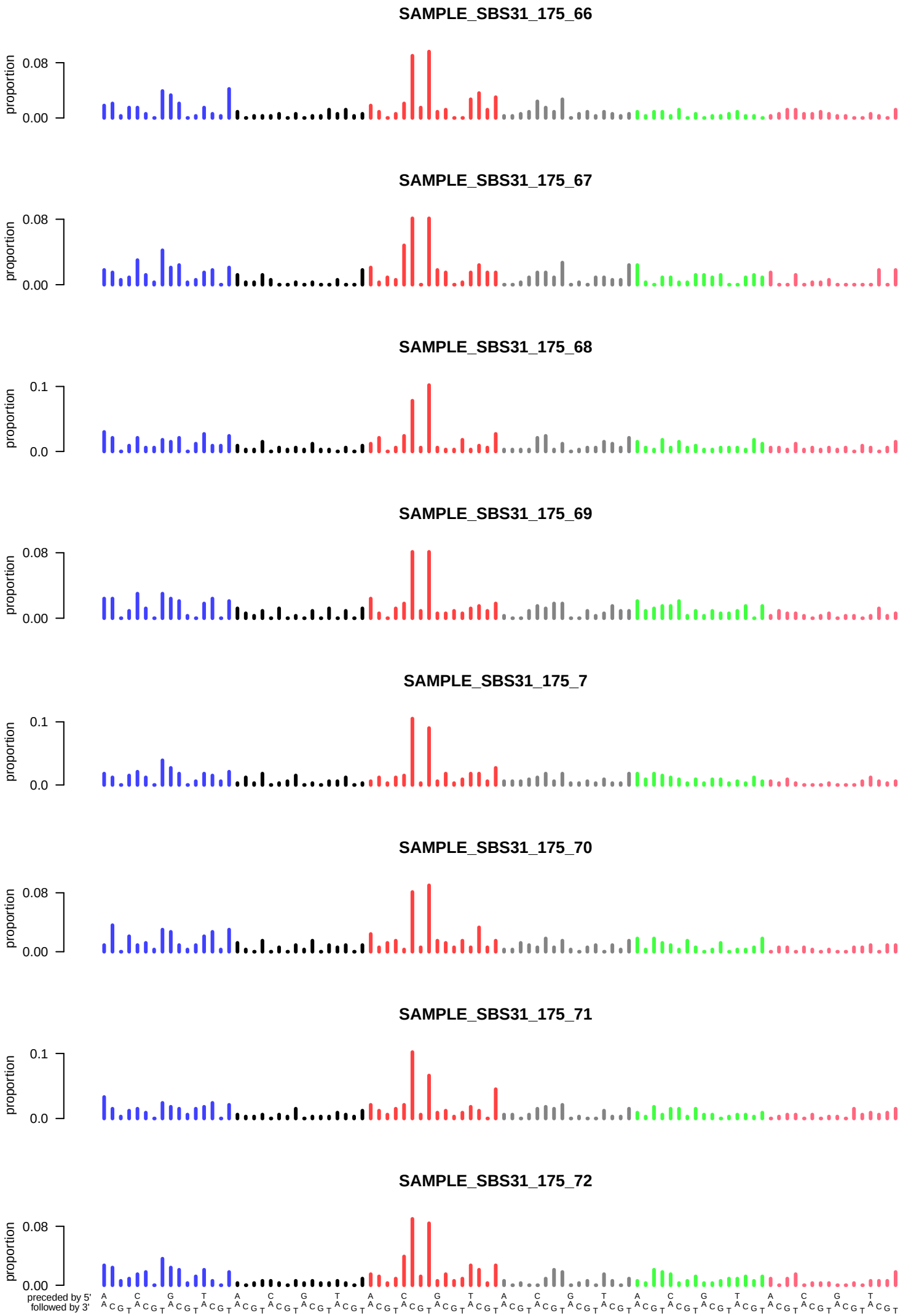
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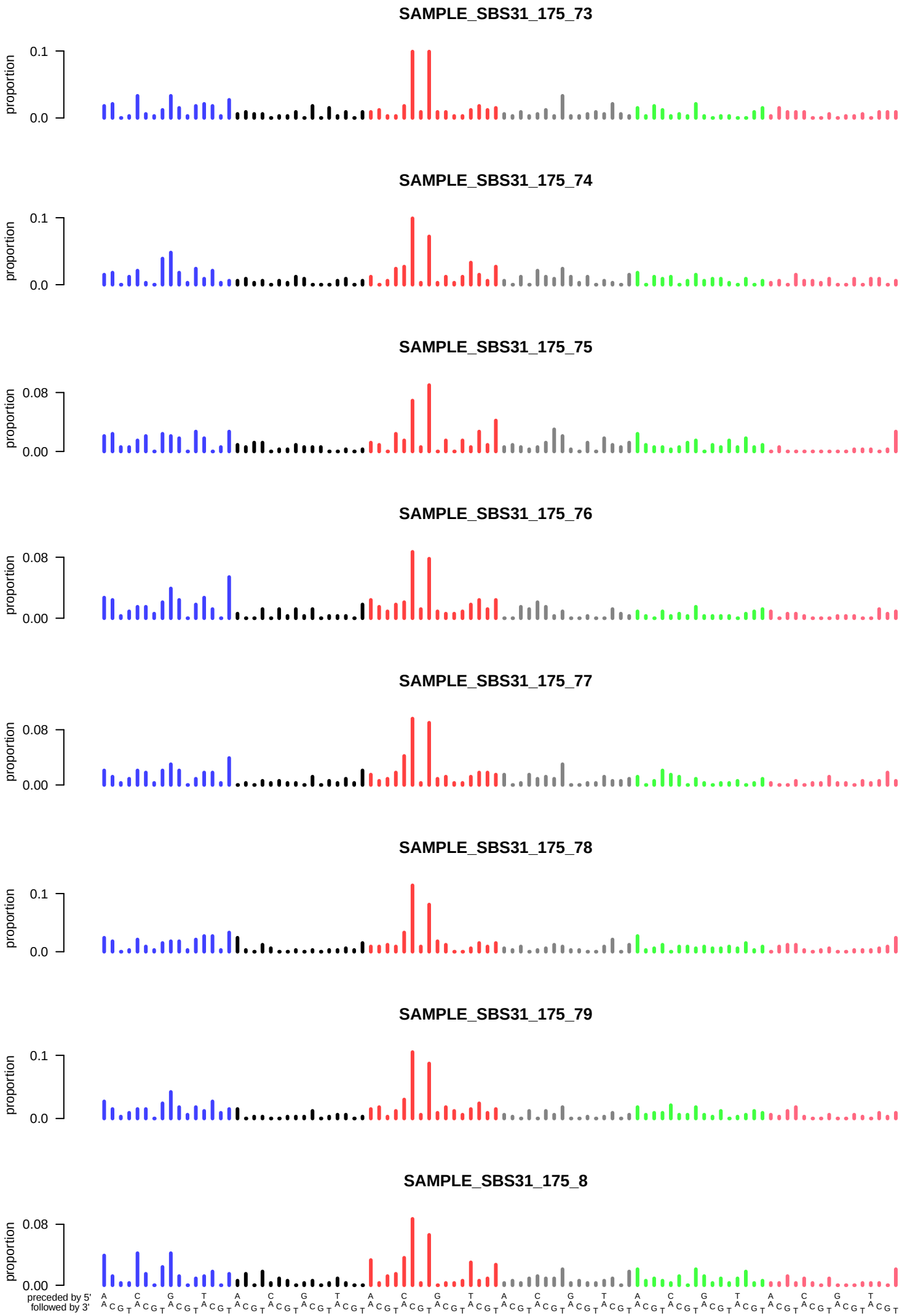
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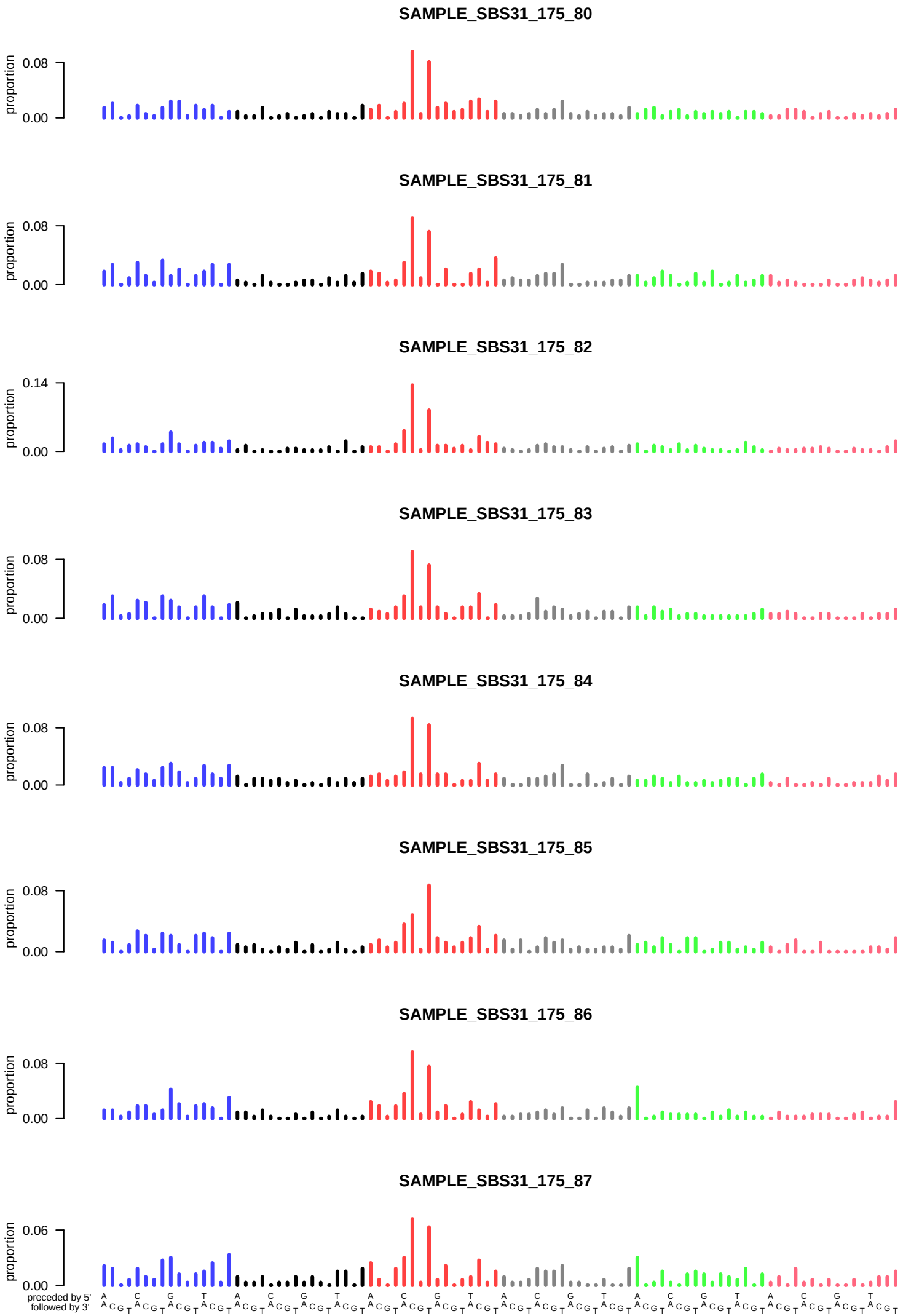
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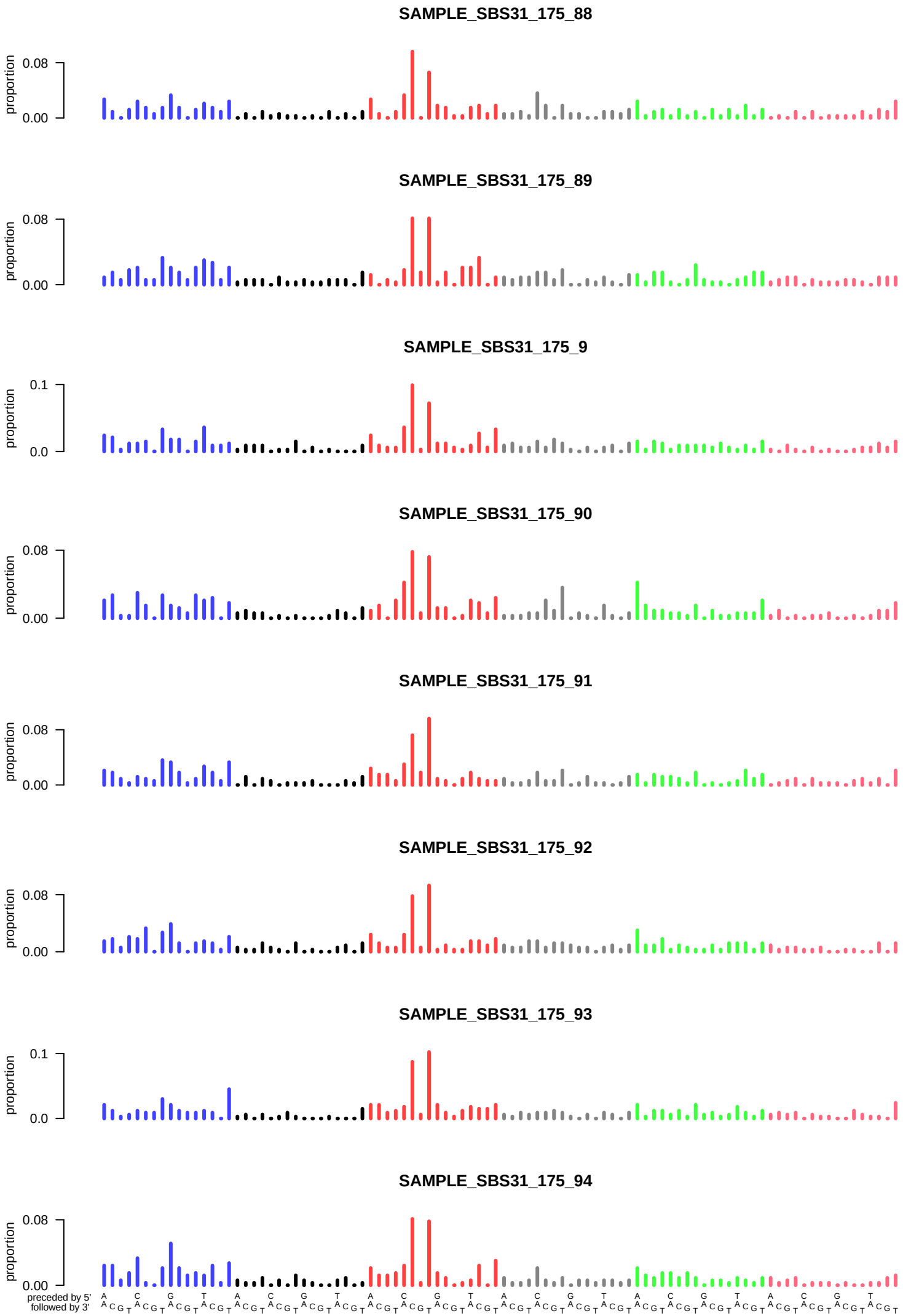
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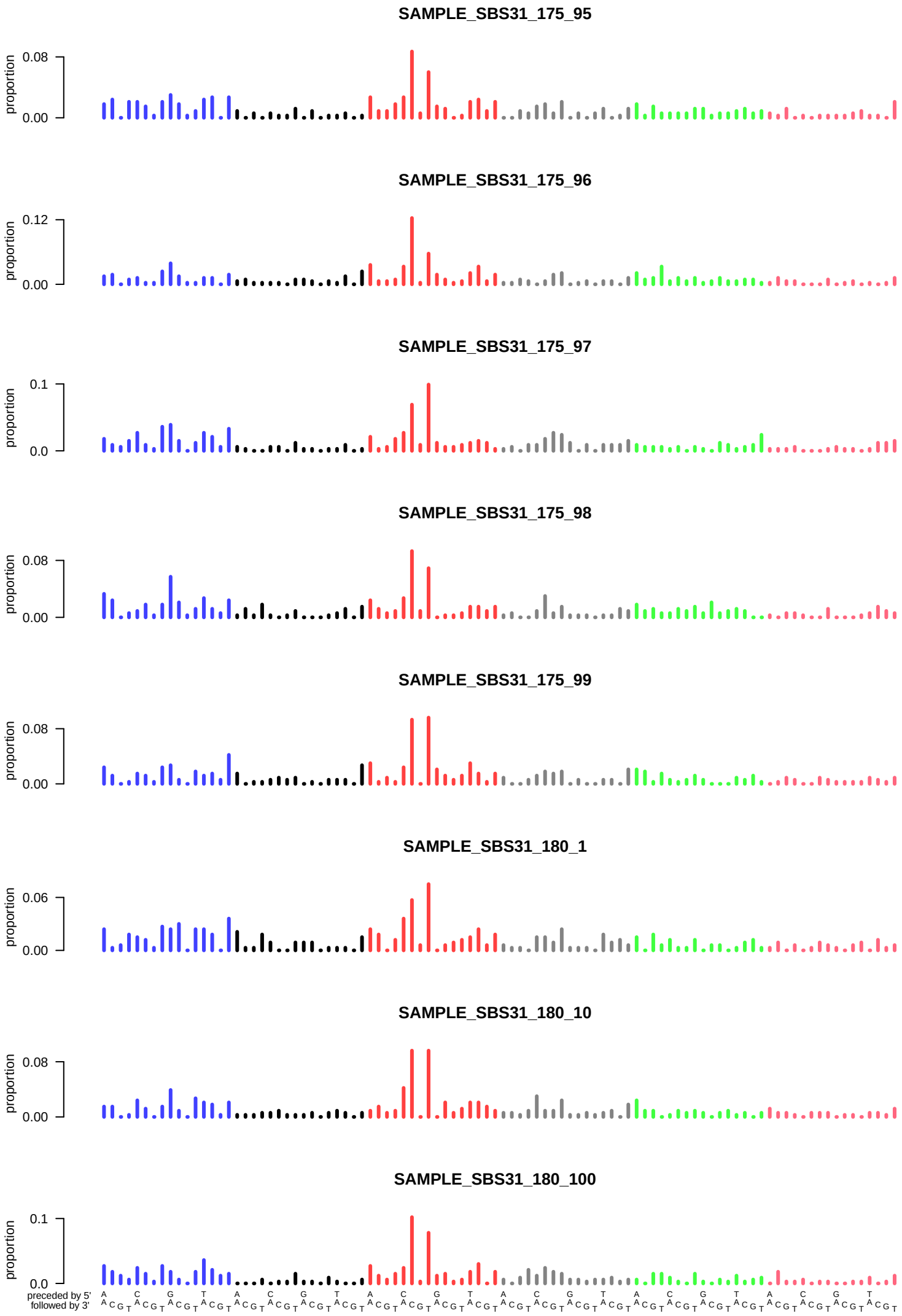
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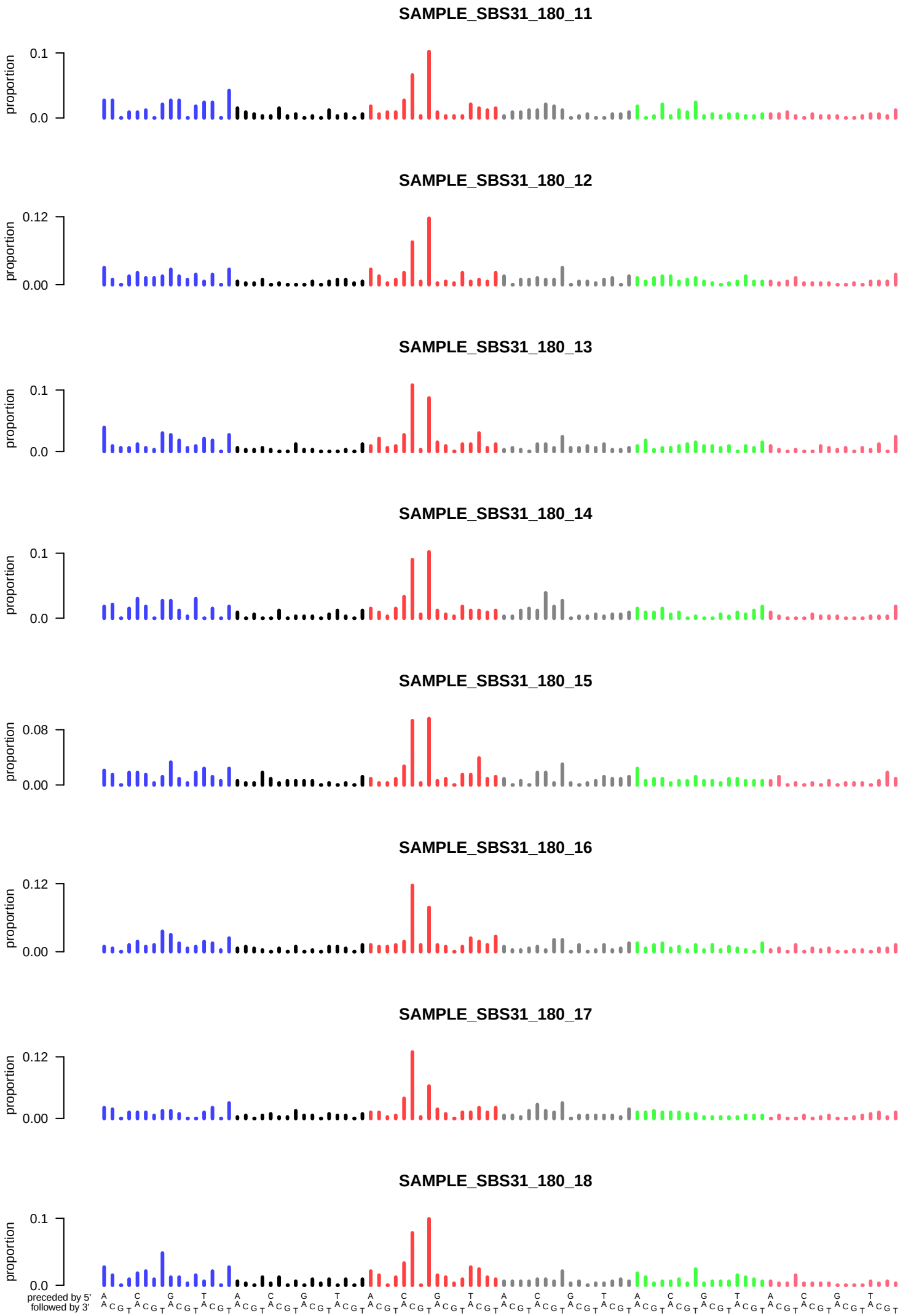
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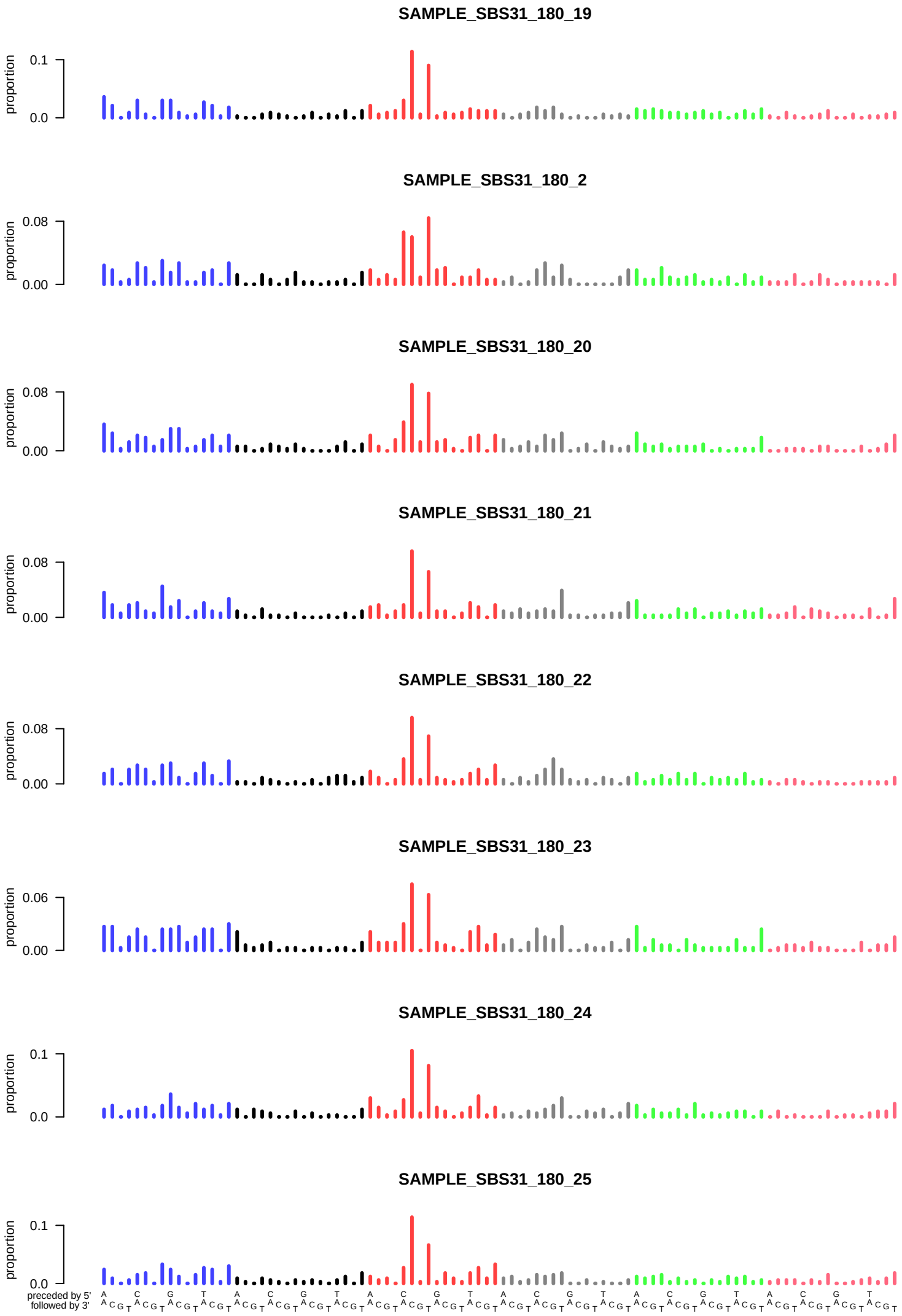
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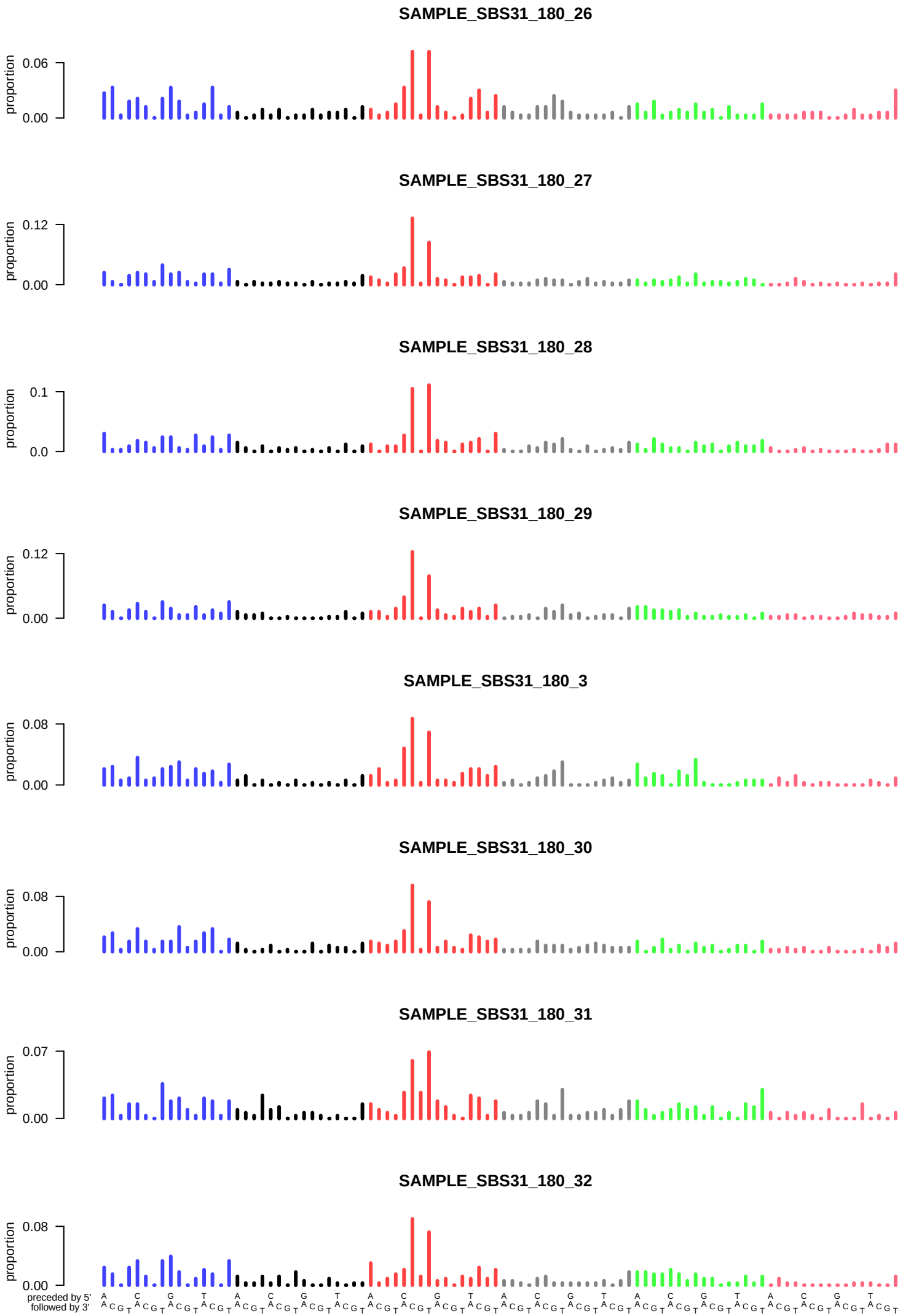
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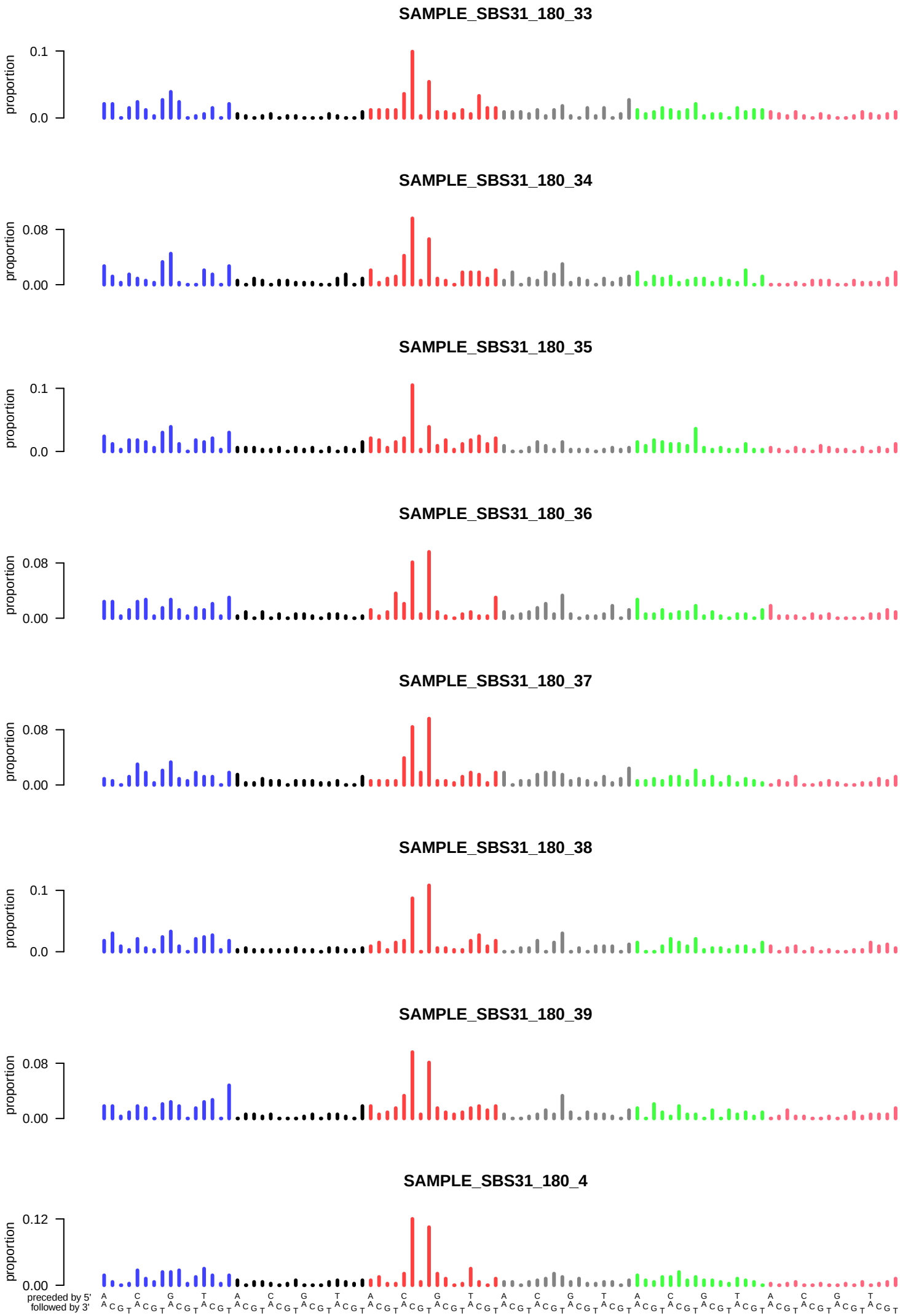
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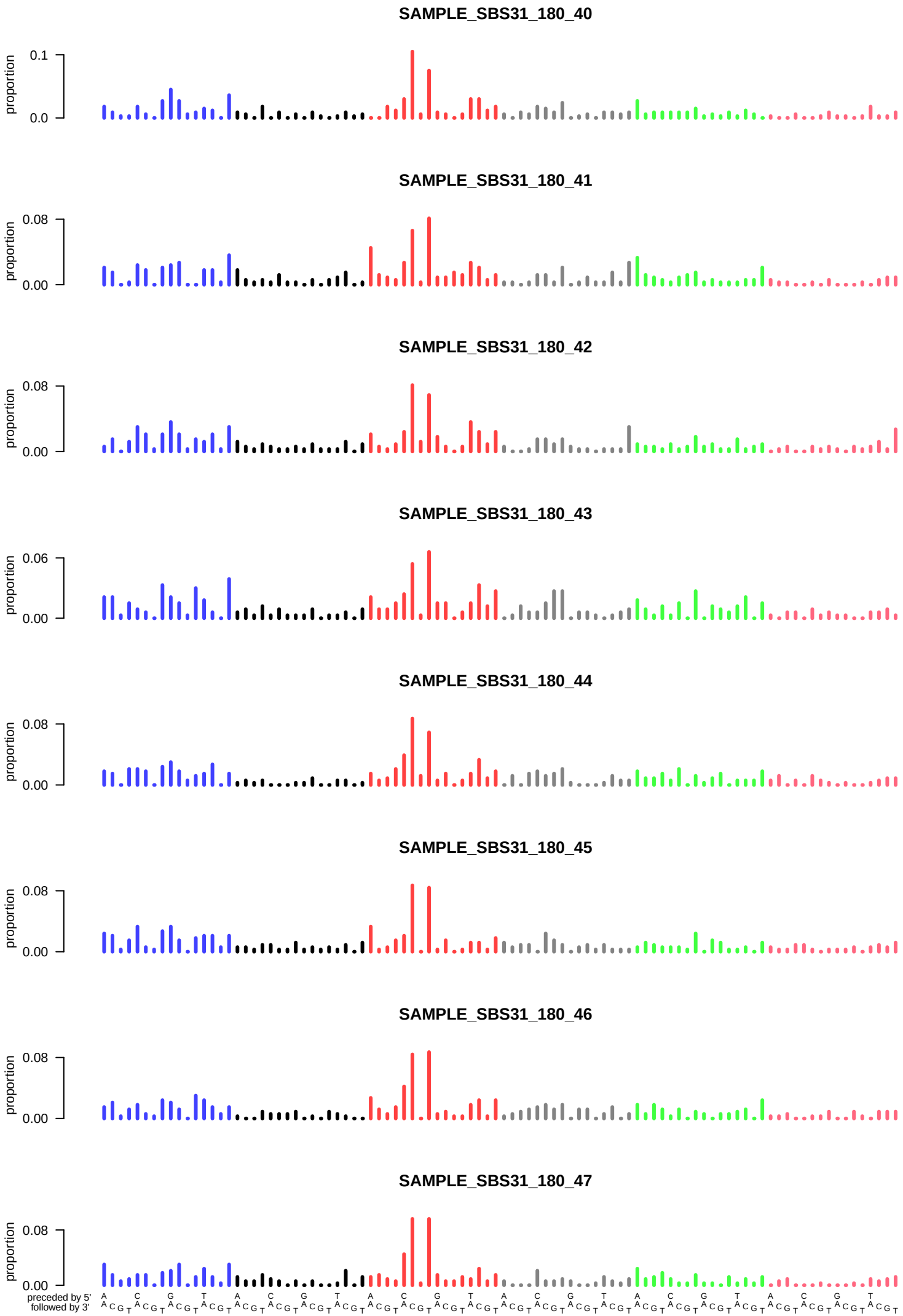
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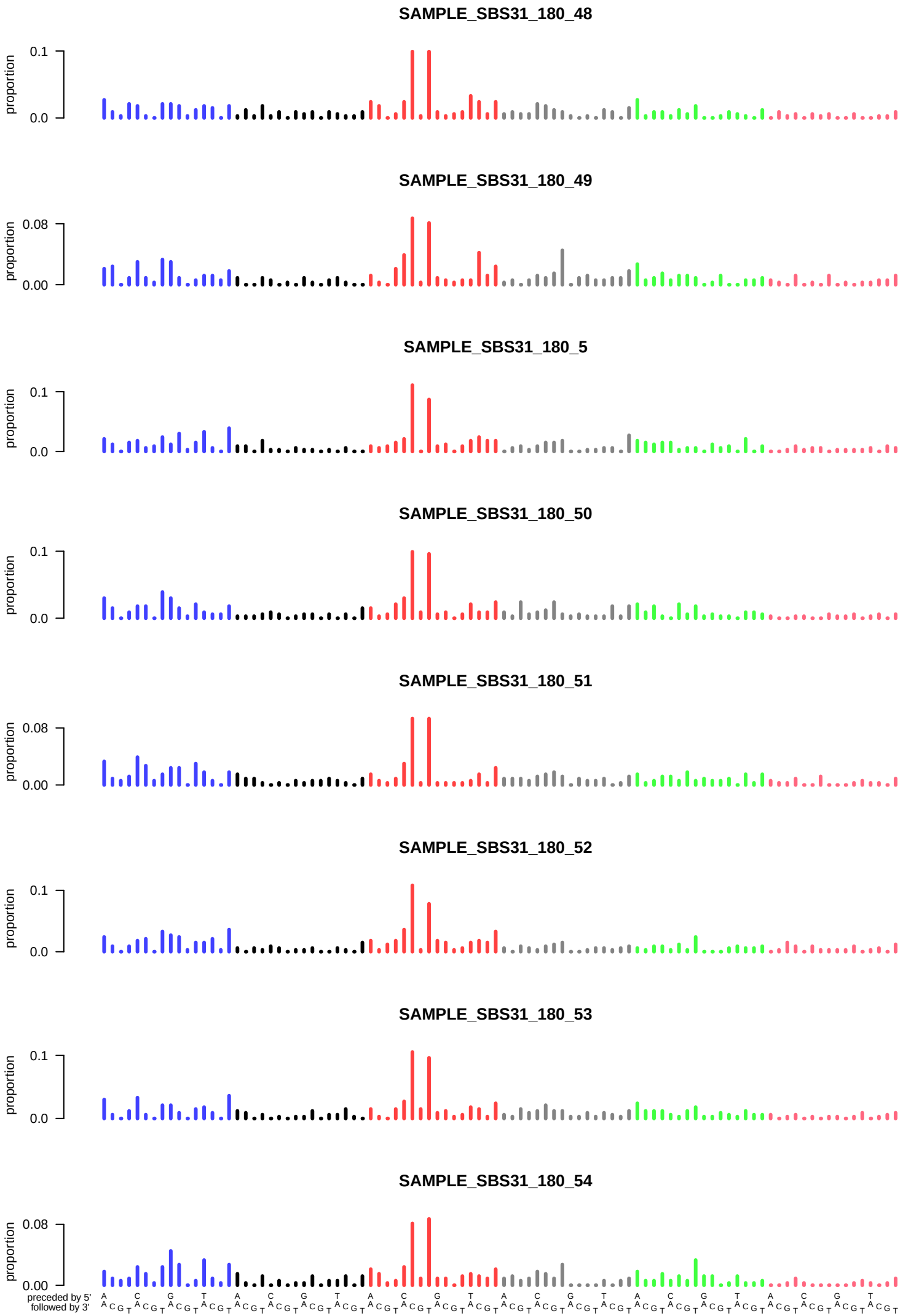
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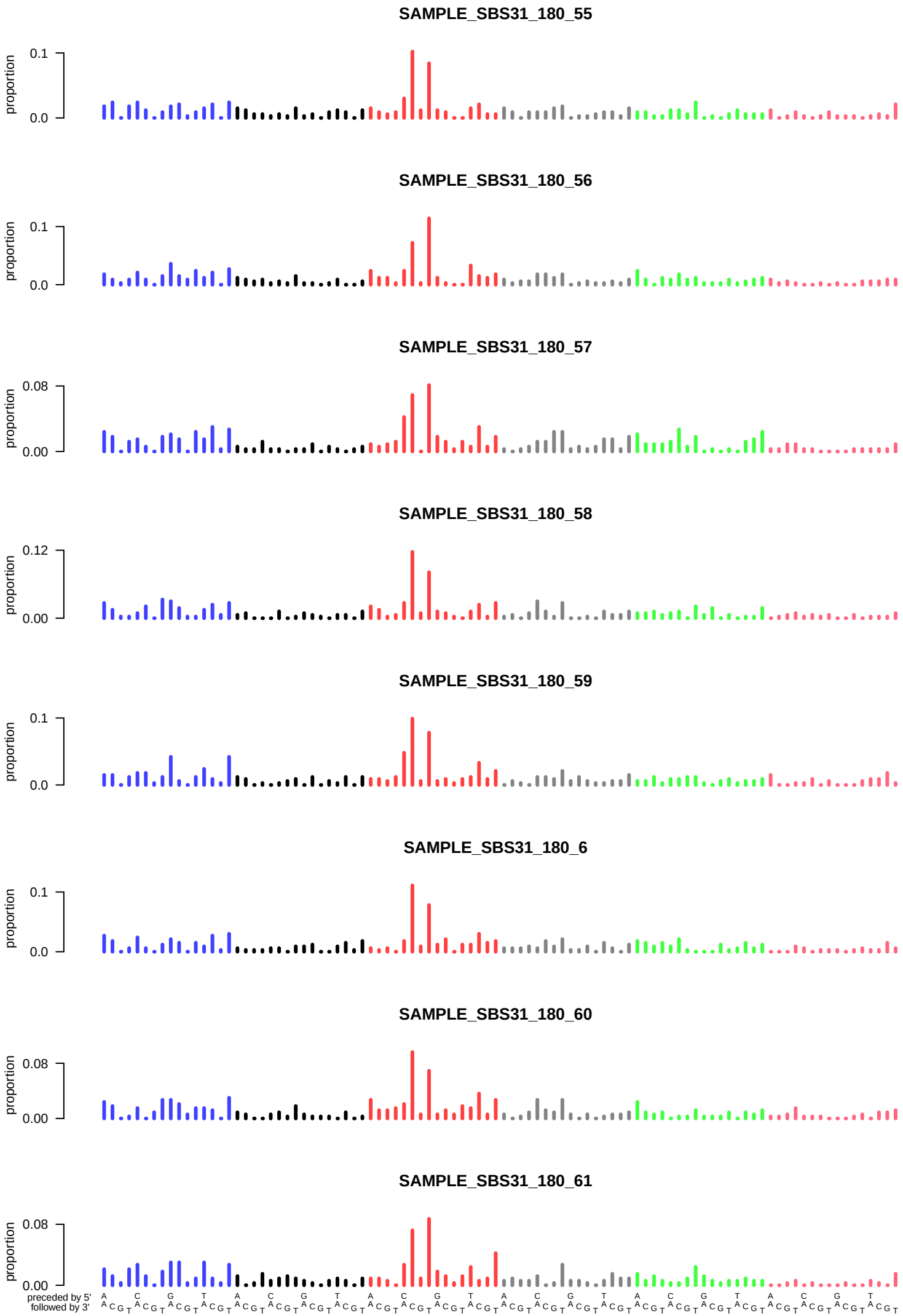
followed by 3'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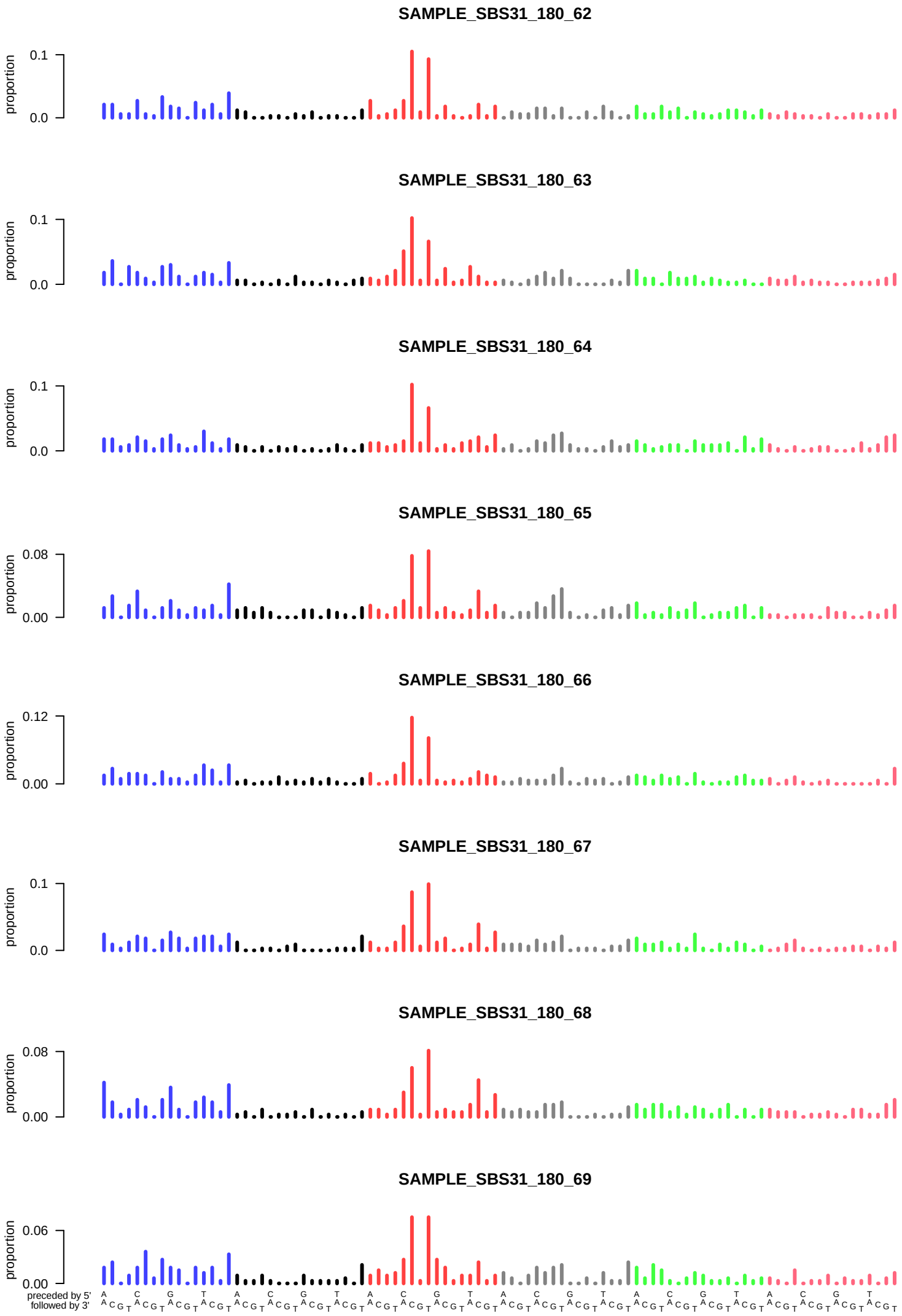
followed by 3'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SAMPLE_SBS31_180_68
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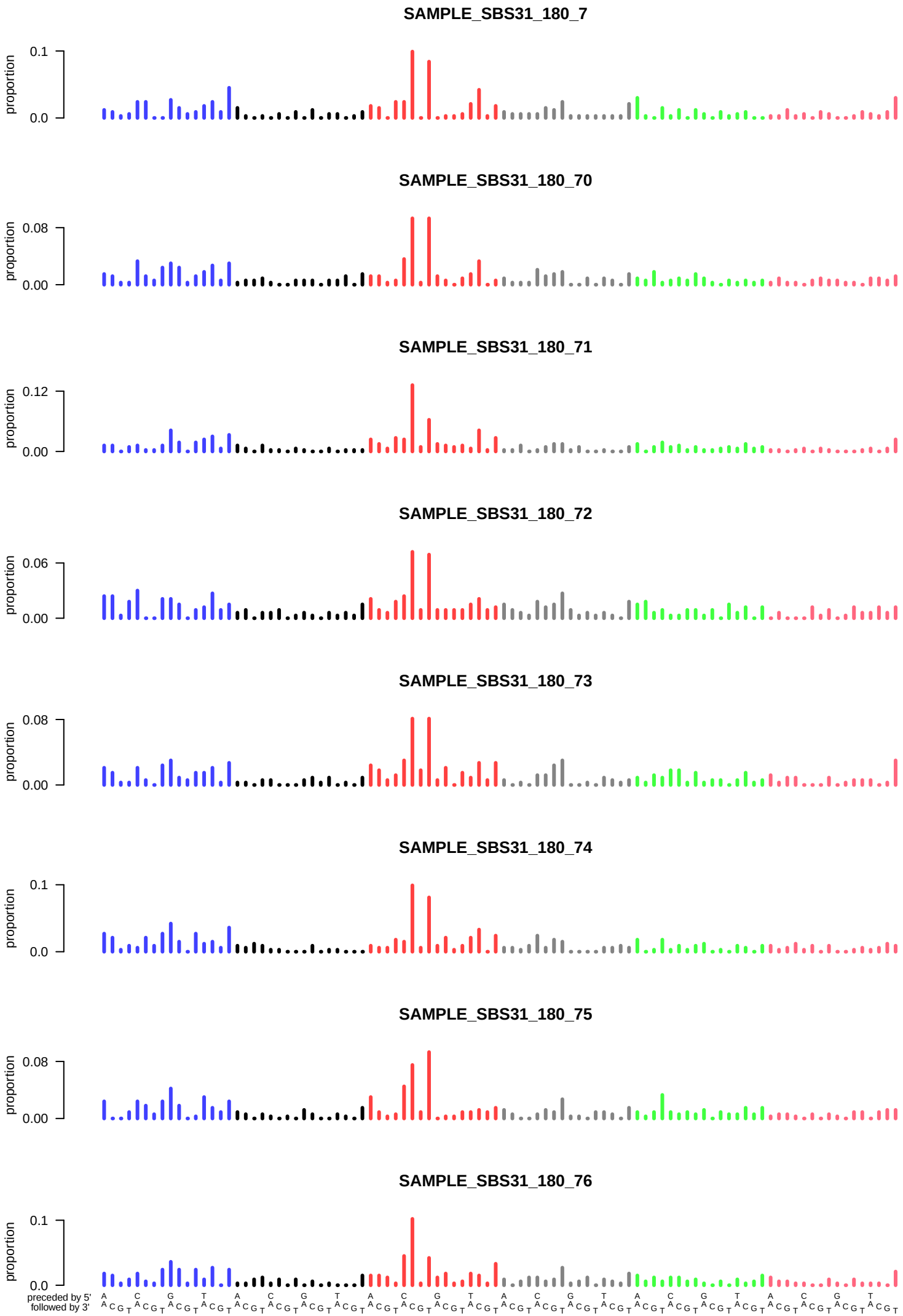
A C G T A C G T A C G T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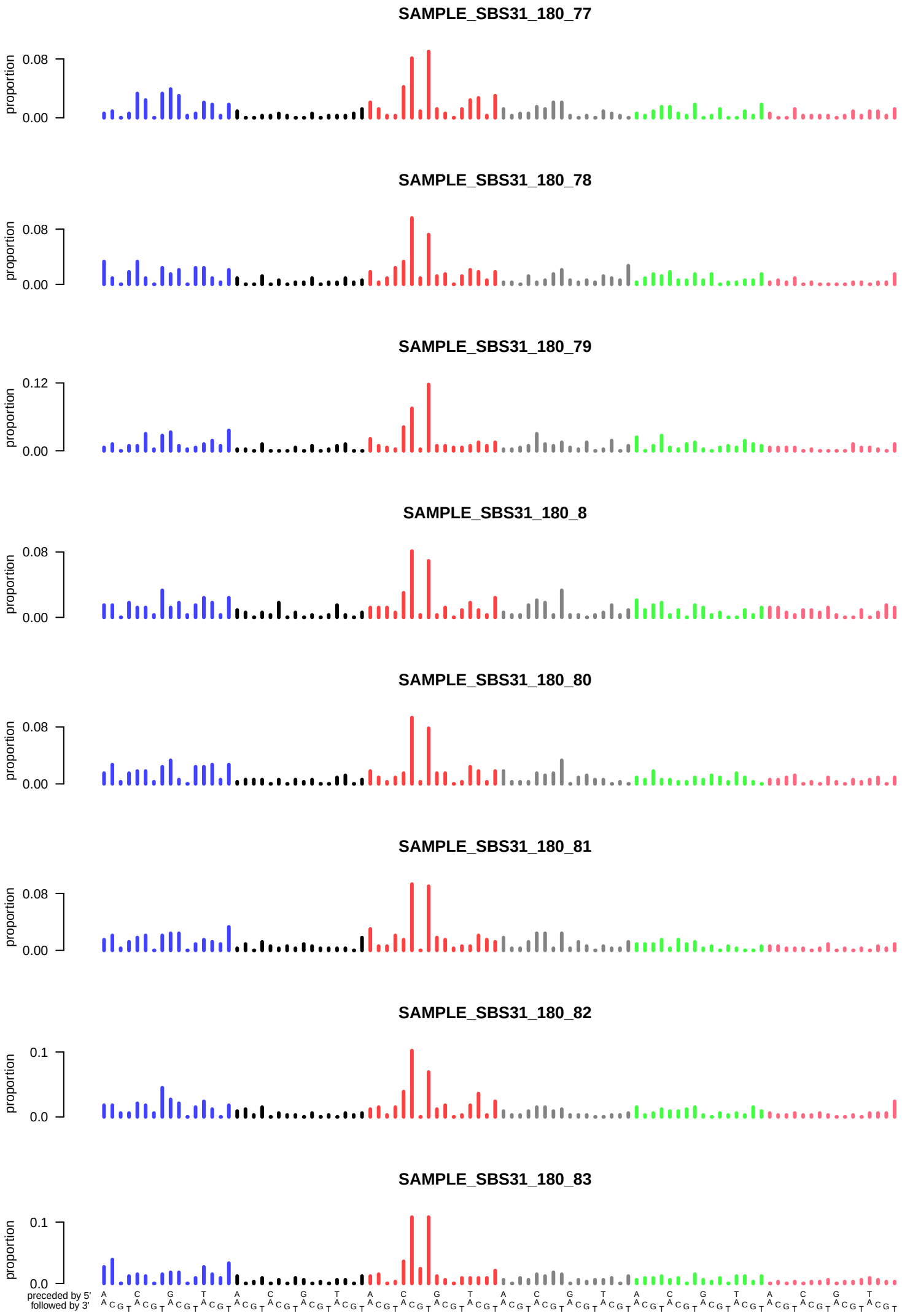
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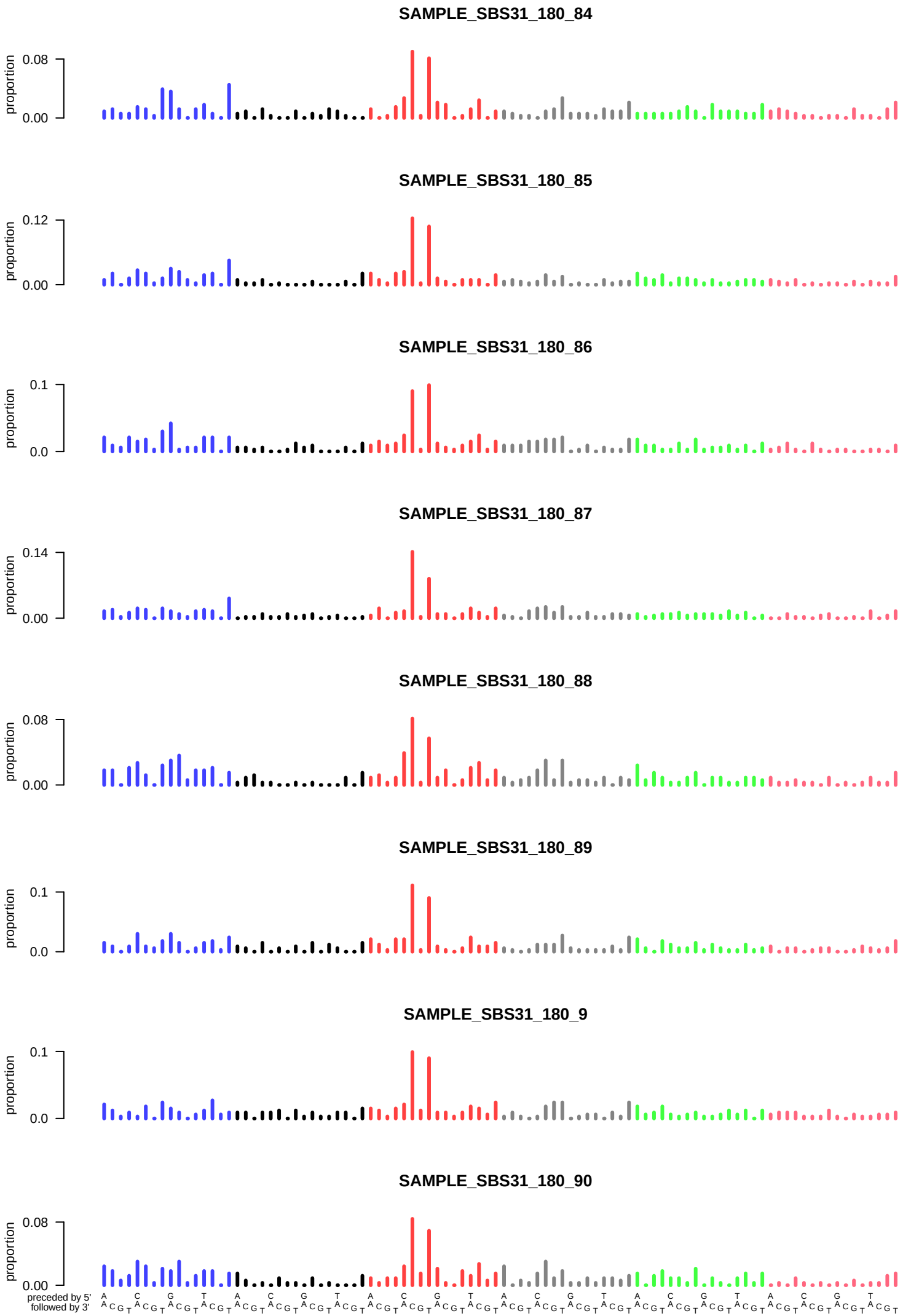
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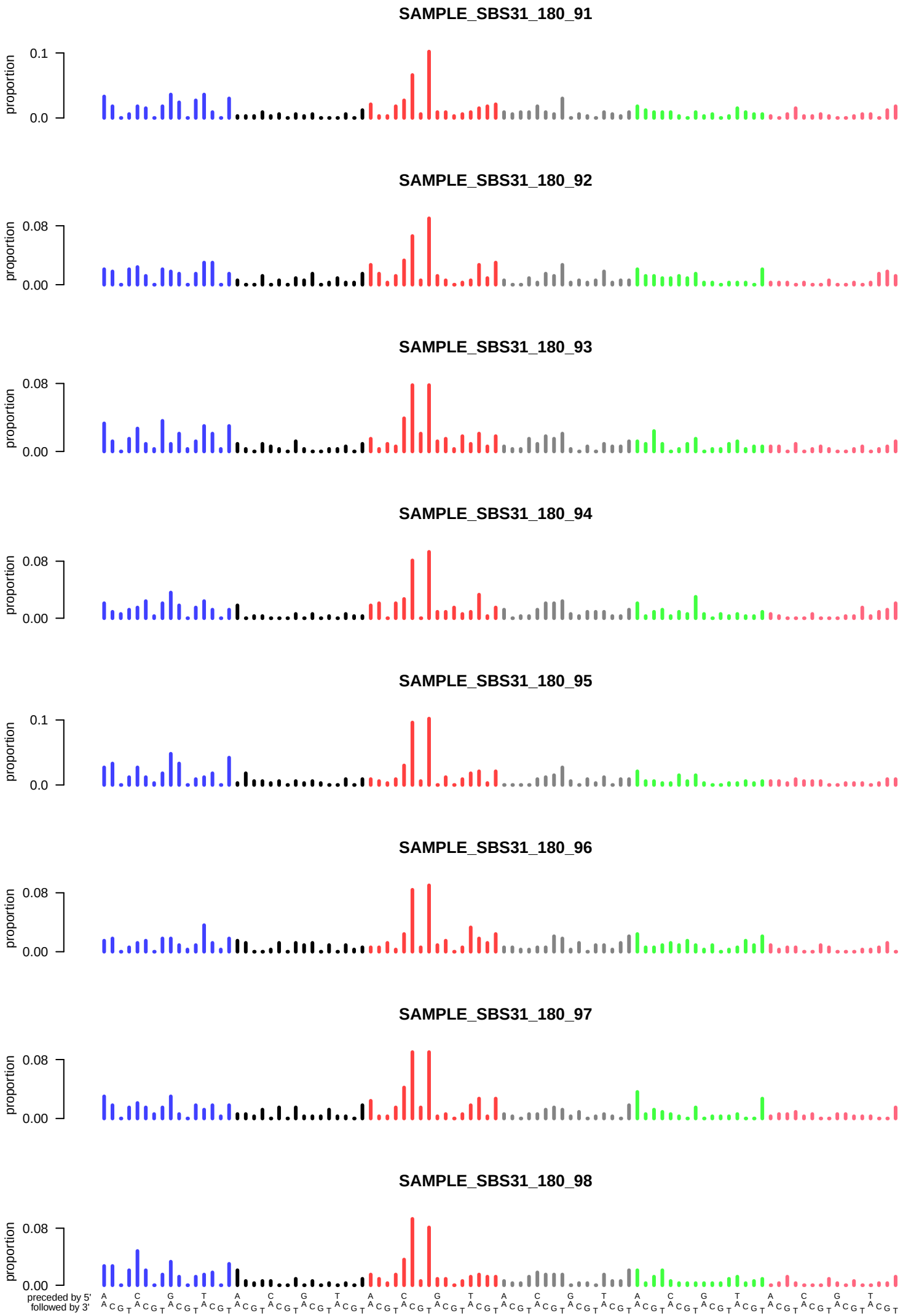
followed by 3'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proportion
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SAMPLE_SBS31_180_97
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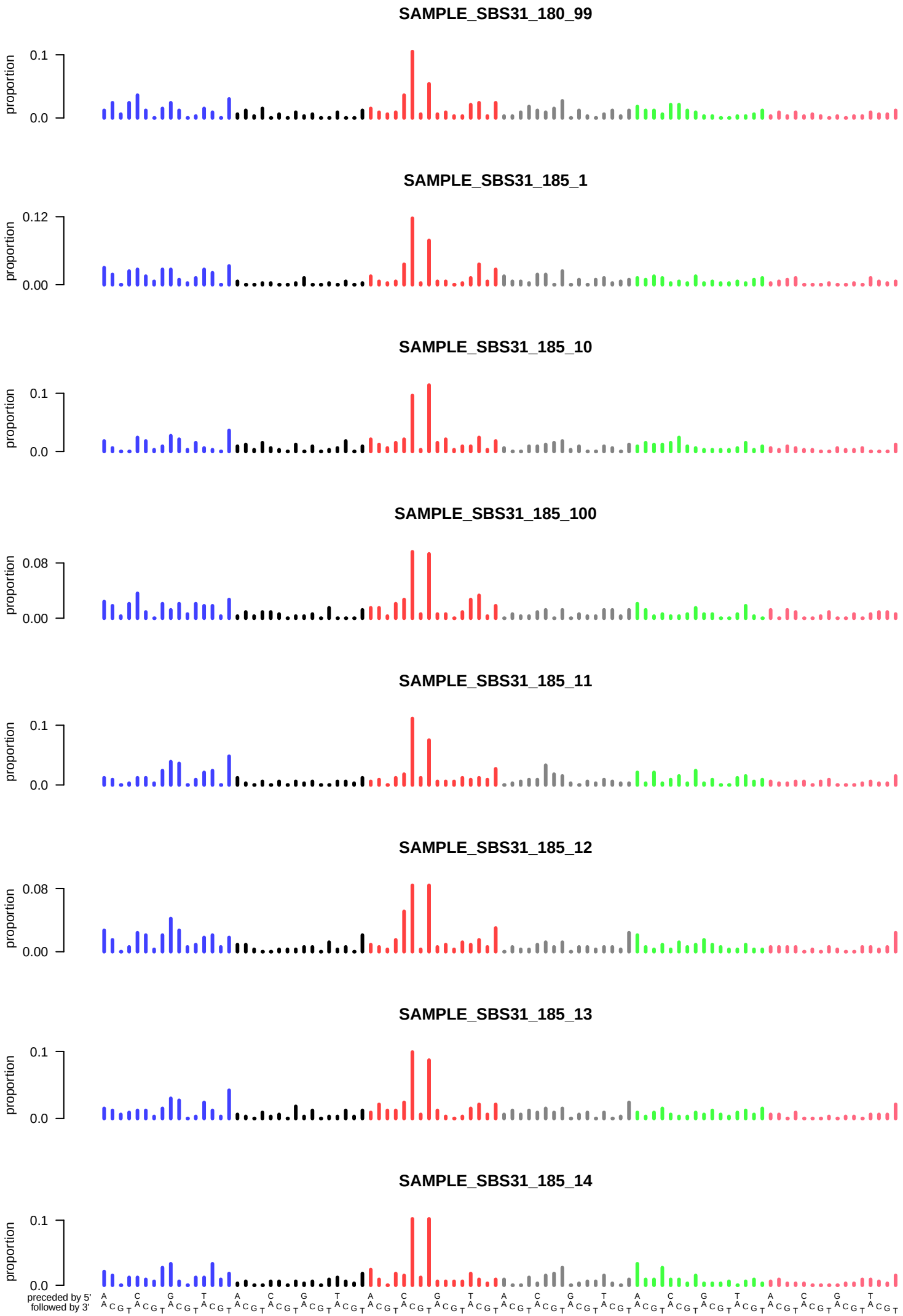
followed by 3'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SAMPLE_SBS31_185_12
proportion
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SAMPLE_SBS31_185_13
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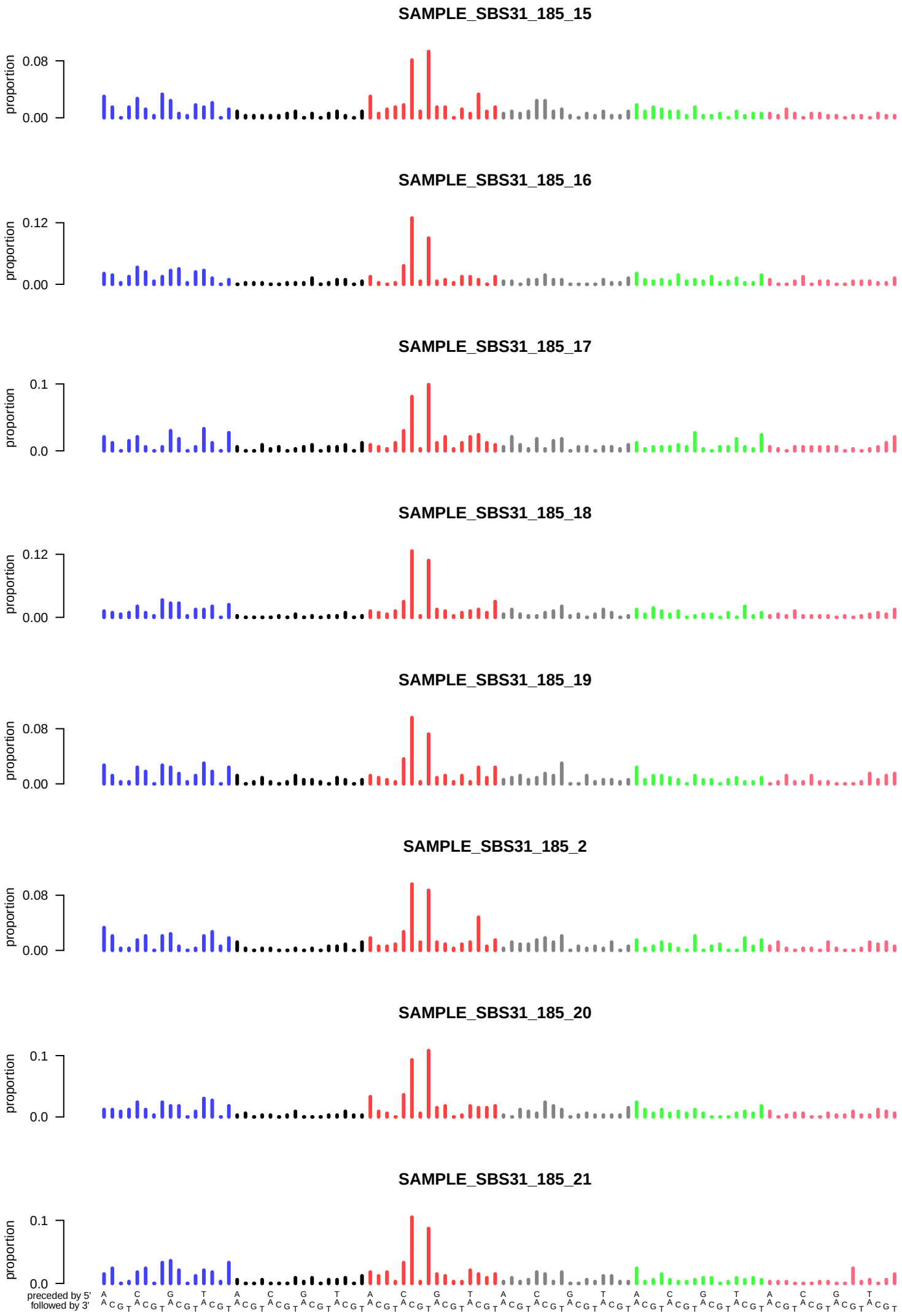
followed by 3'
A C G T A C G T A C G T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SAMPLE_SBS31_185_20
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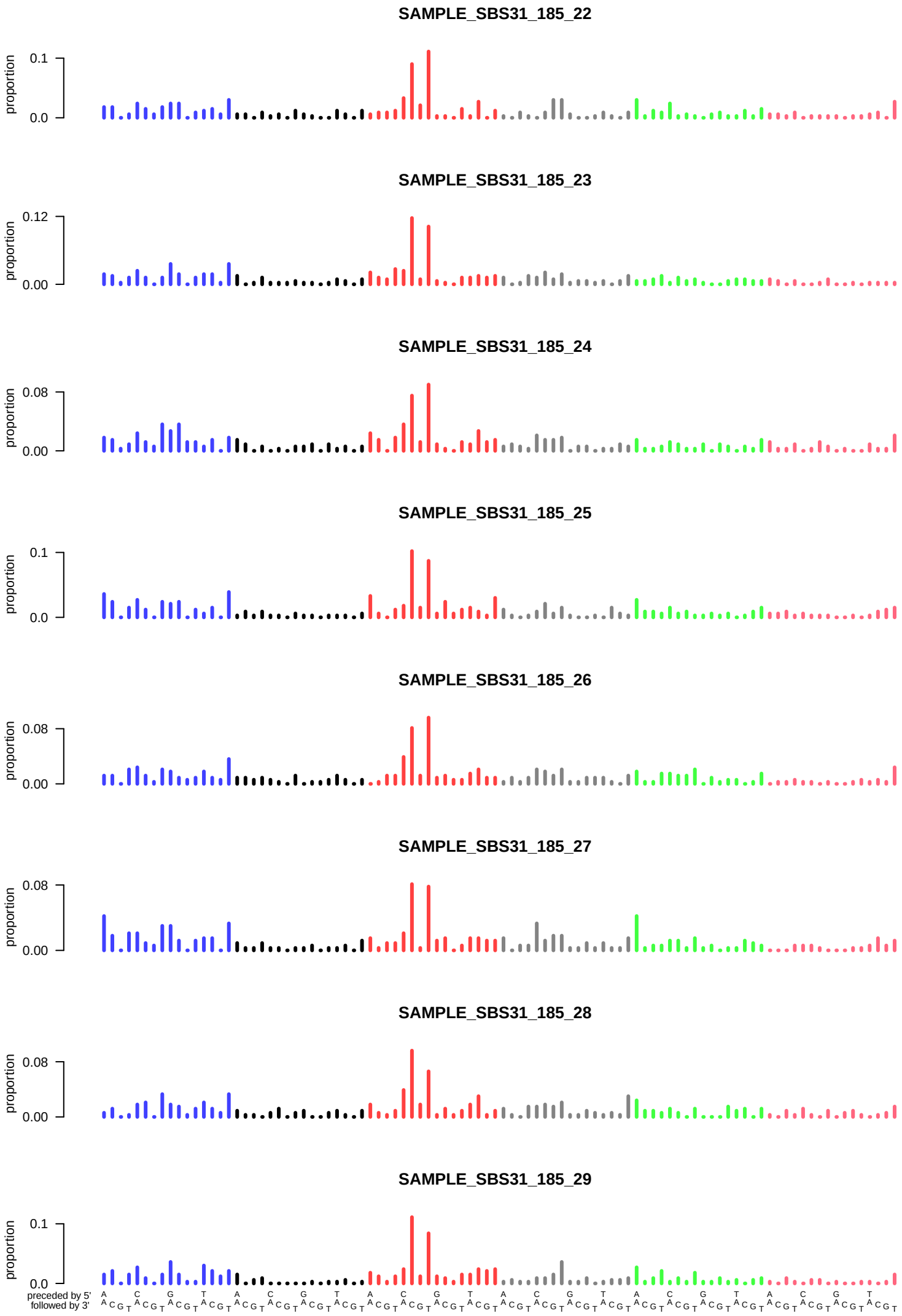
followed by 3'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SAMPLE_SBS31_185_28
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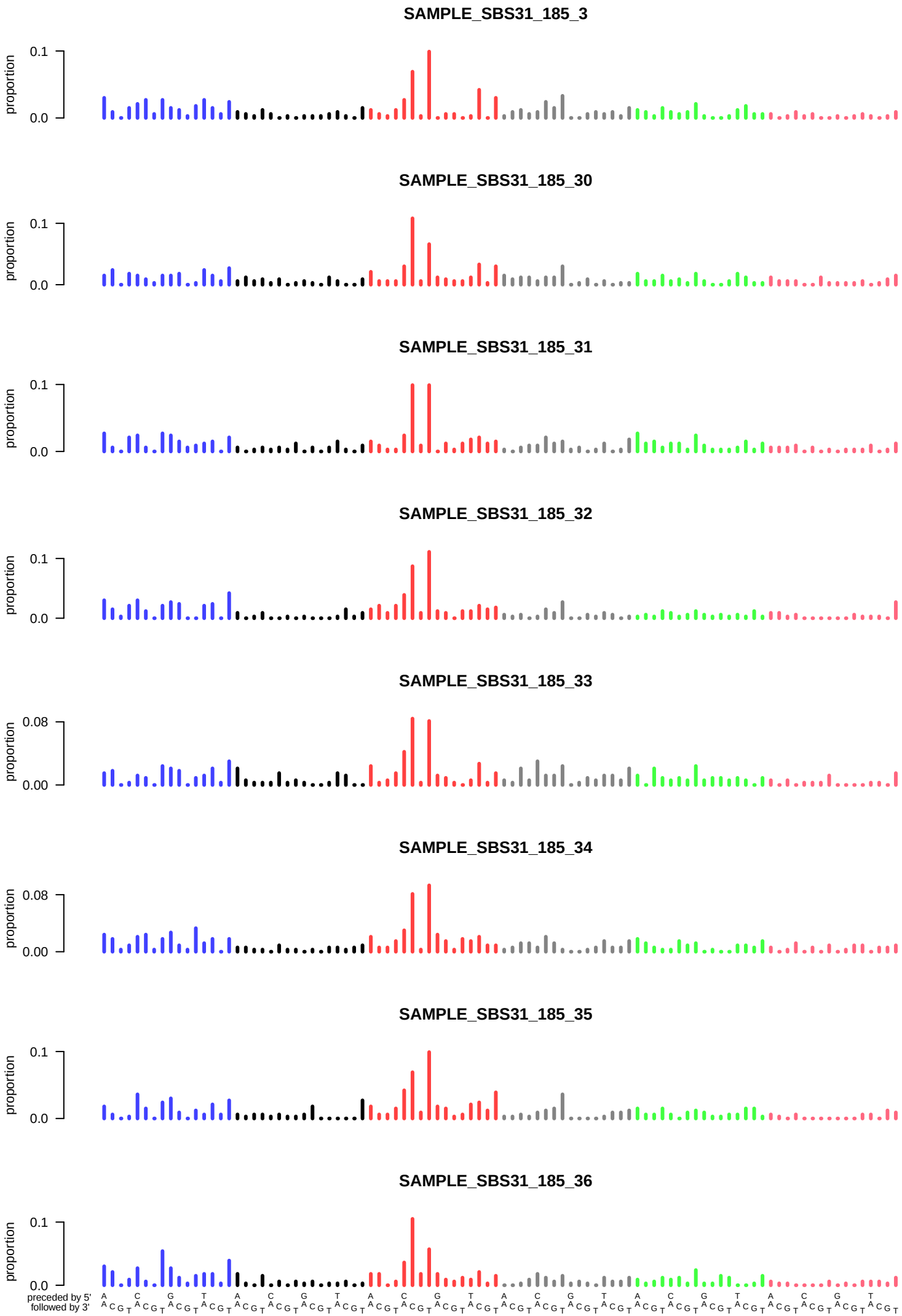
followed by 3'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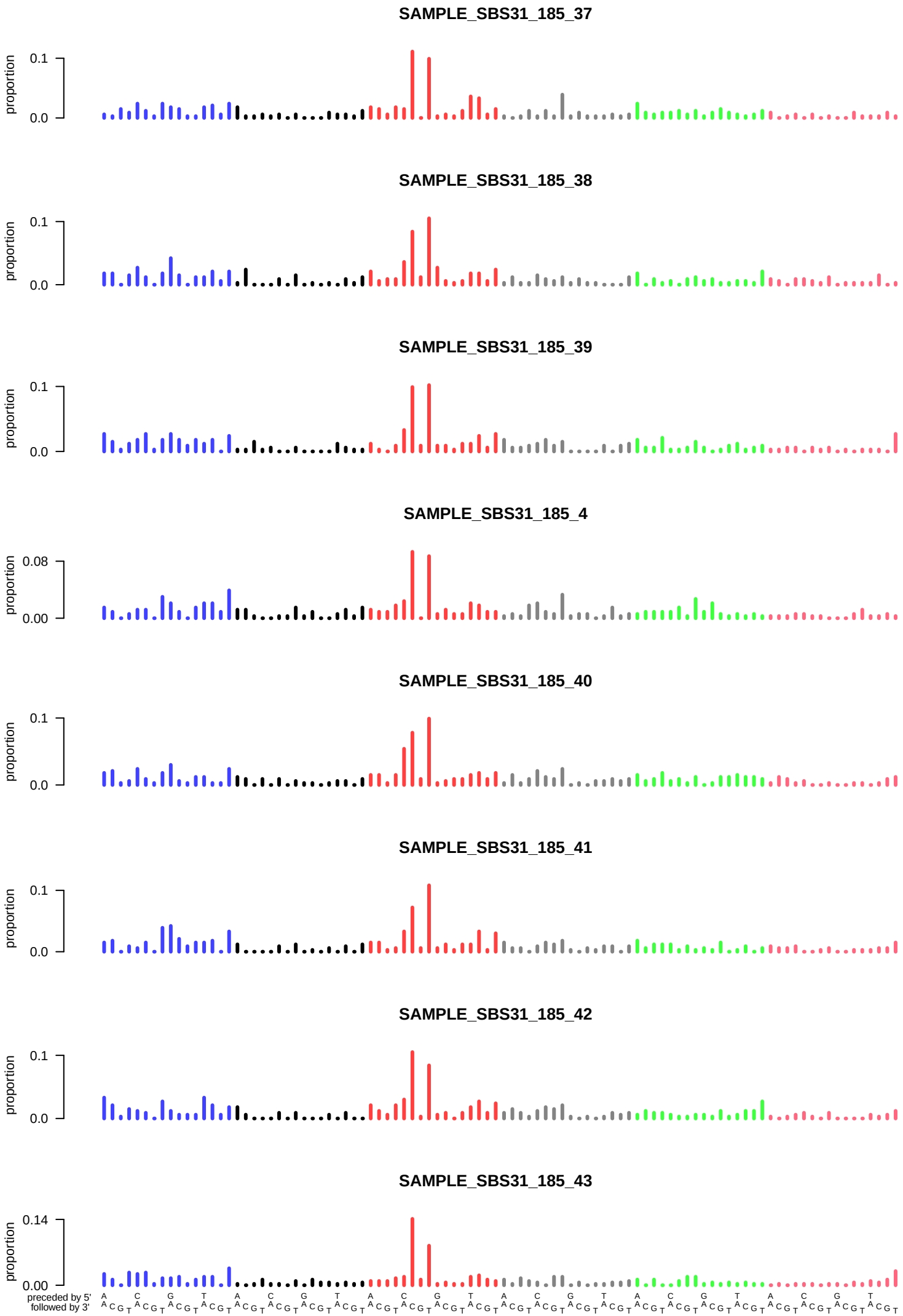
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SAMPLE_SBS31_185_41
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SAMPLE_SBS31_185_42
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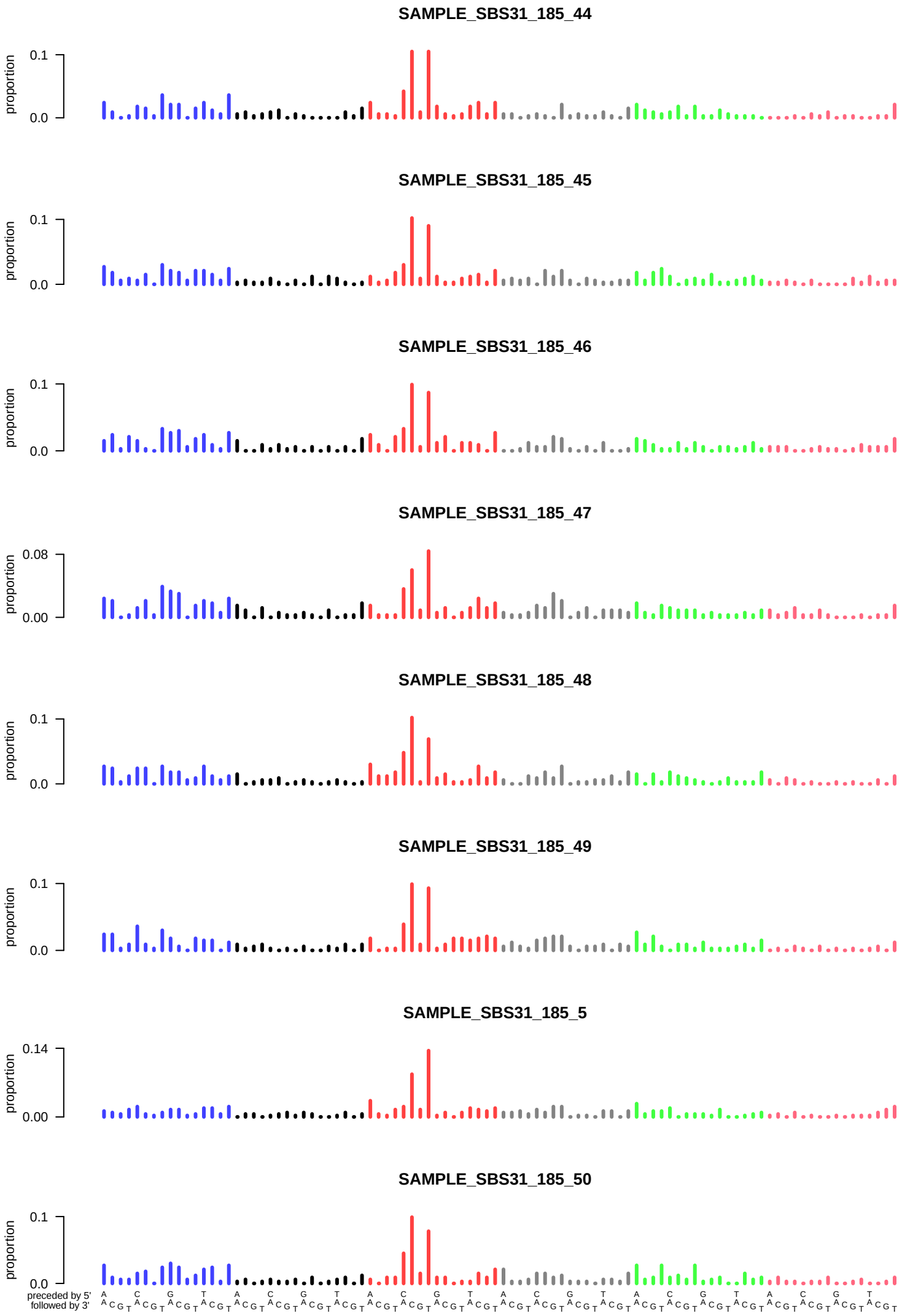
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SAMPLE_SBS31_185_49
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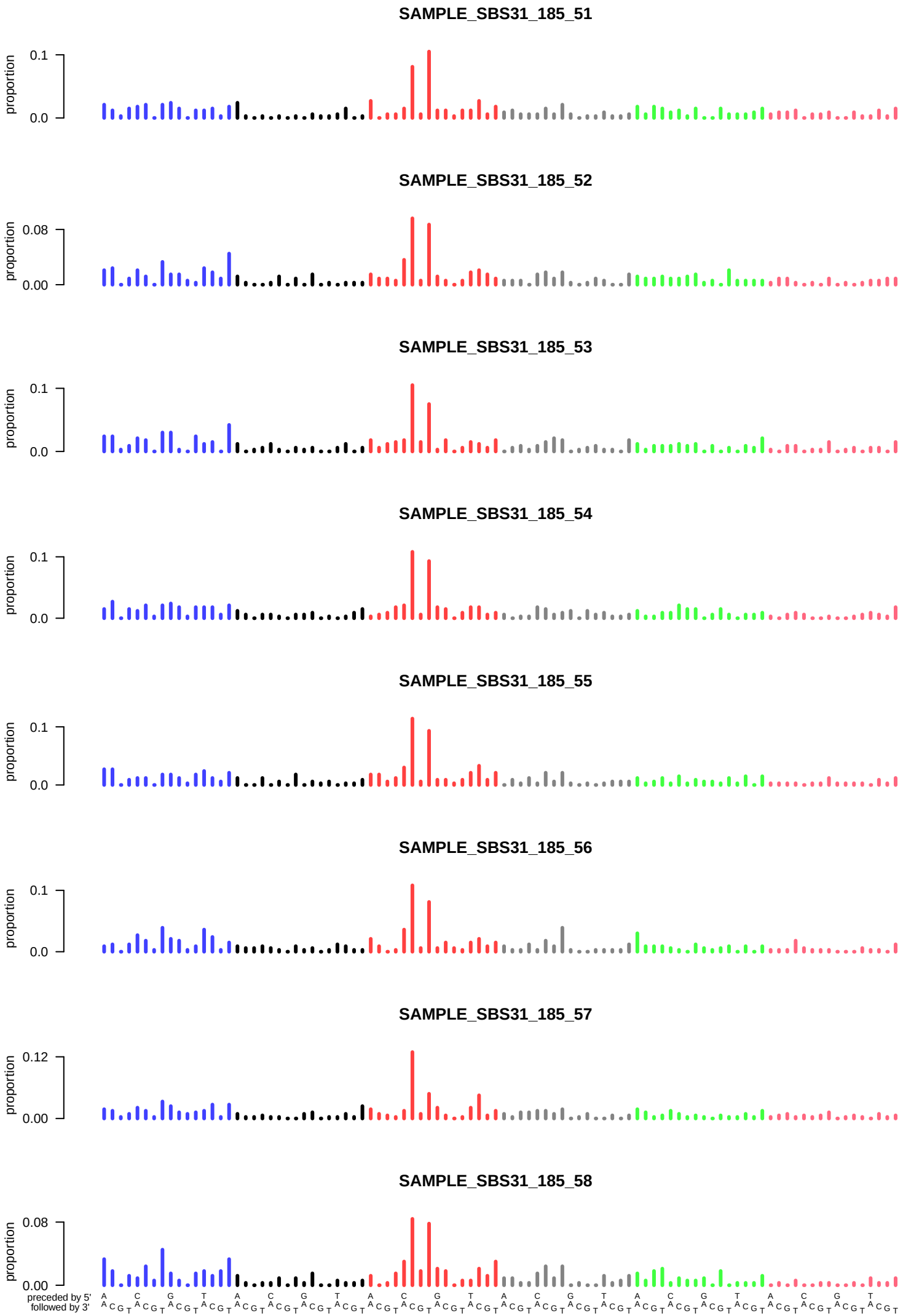
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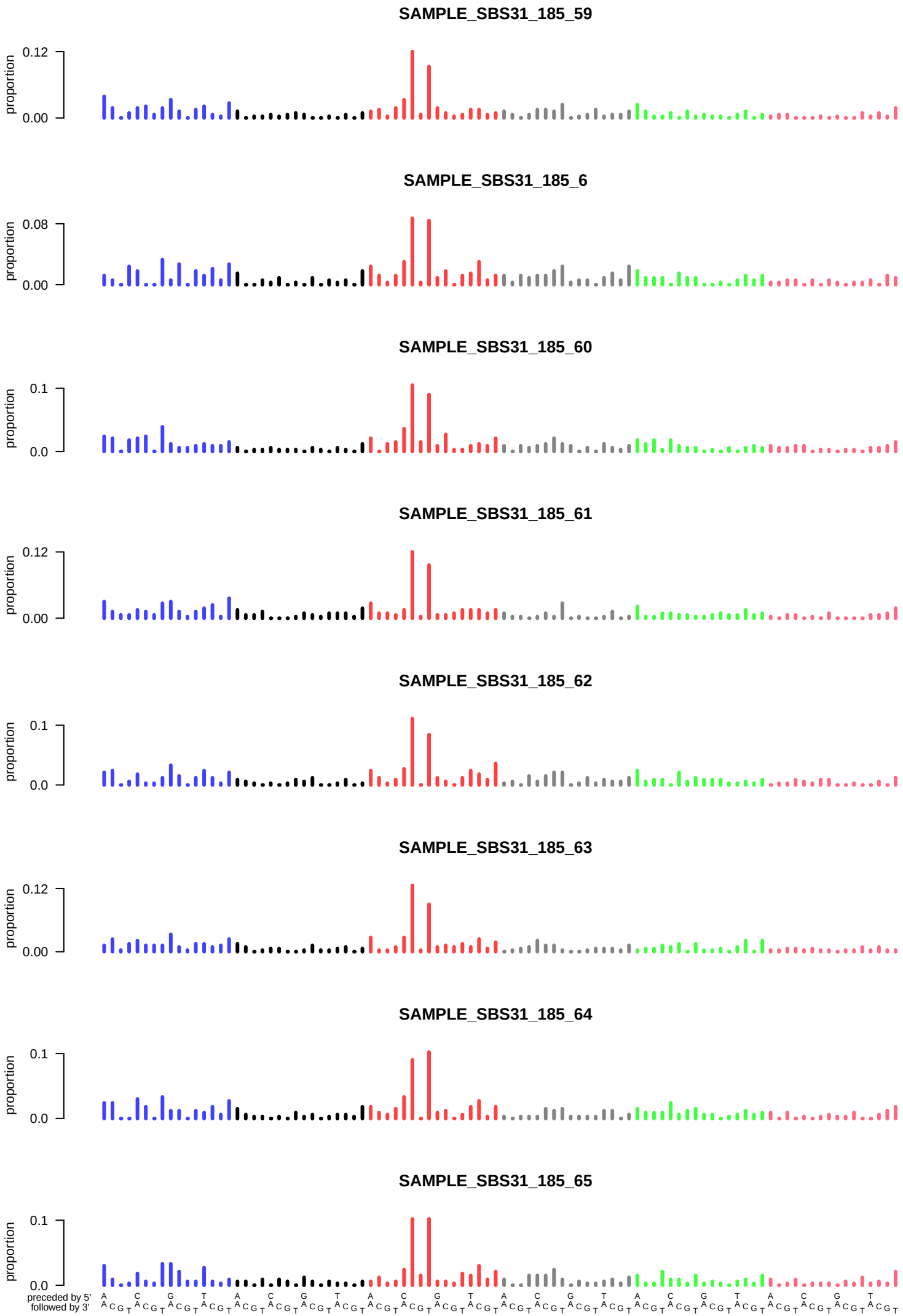
followed by 3'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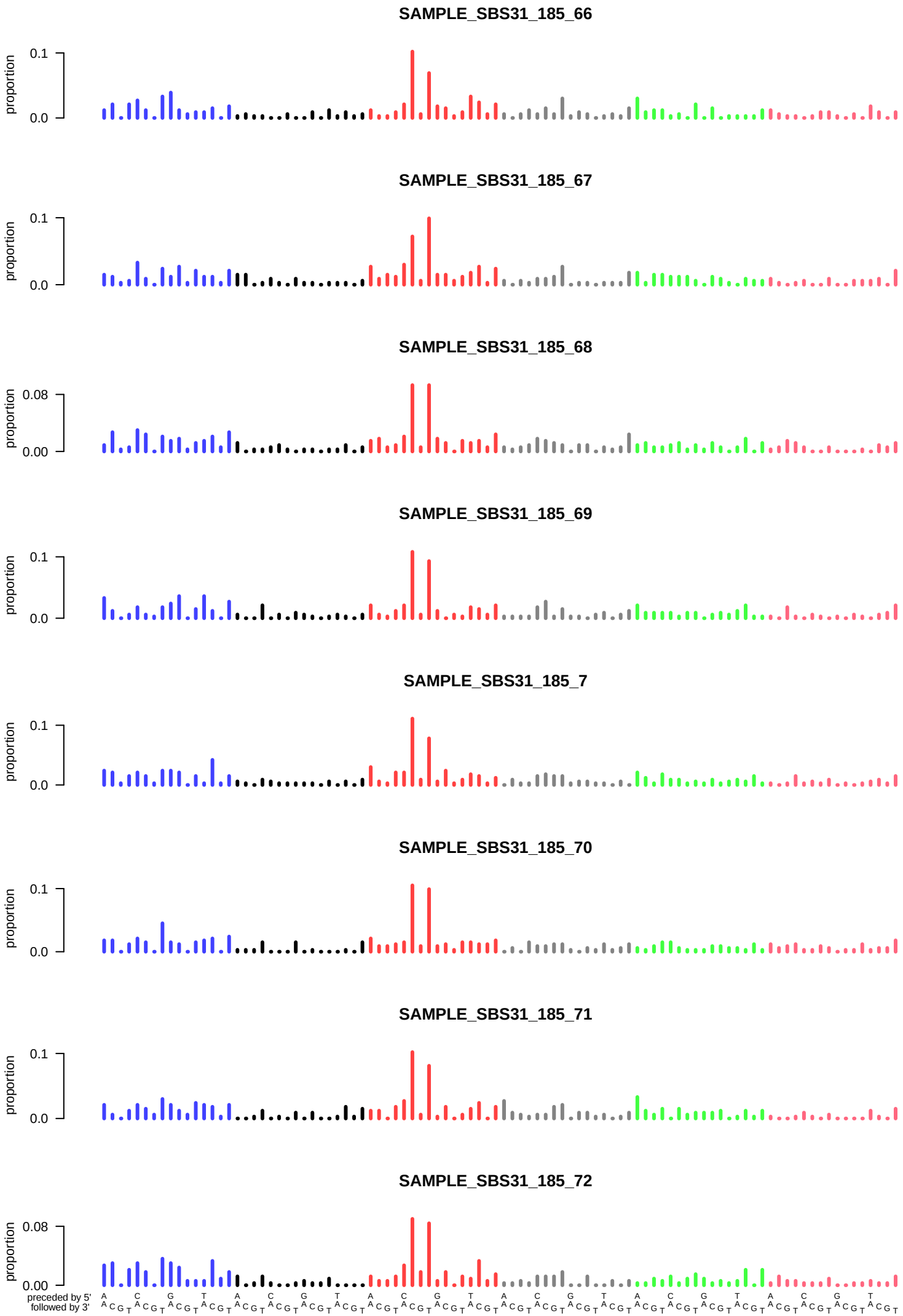
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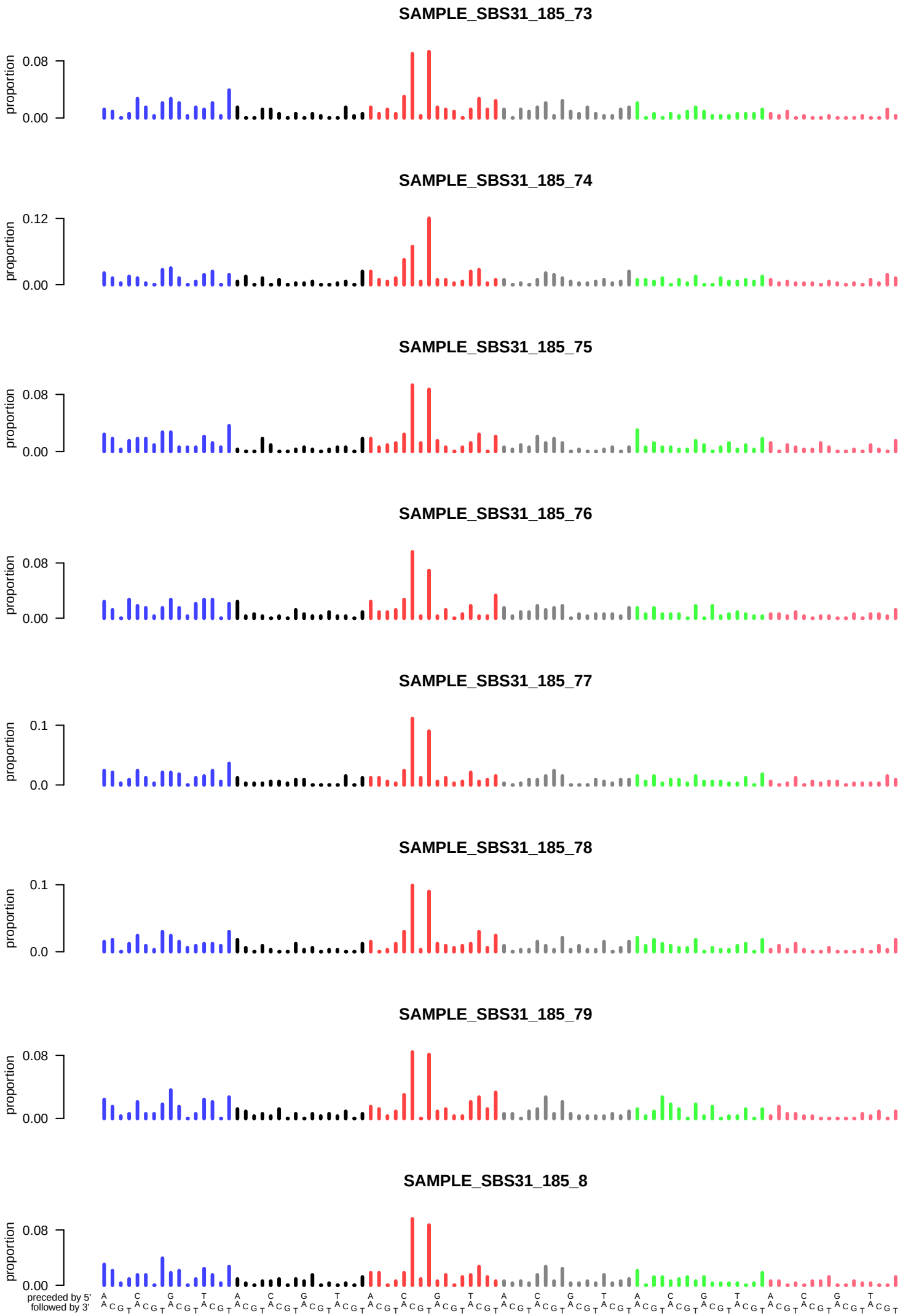
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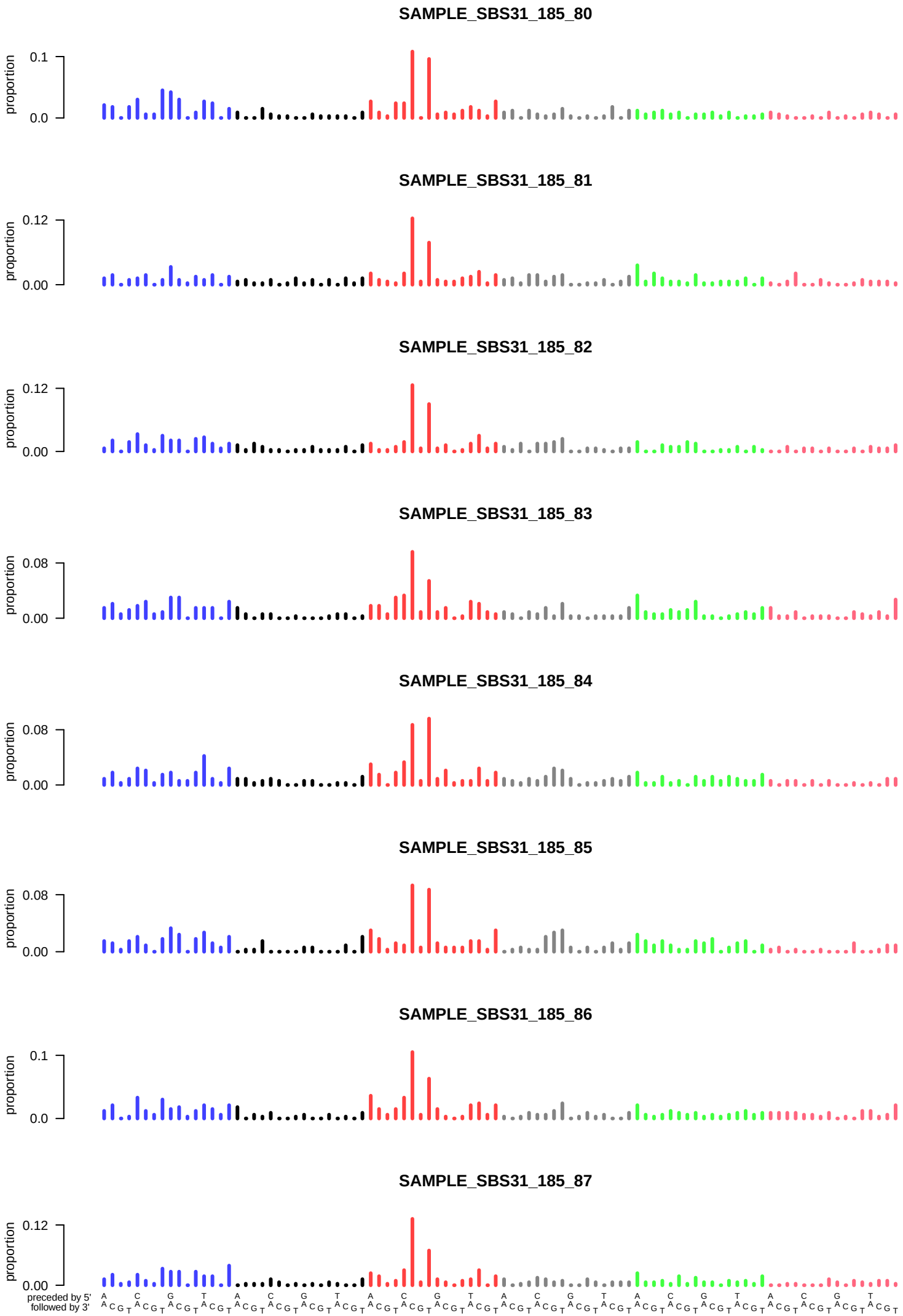
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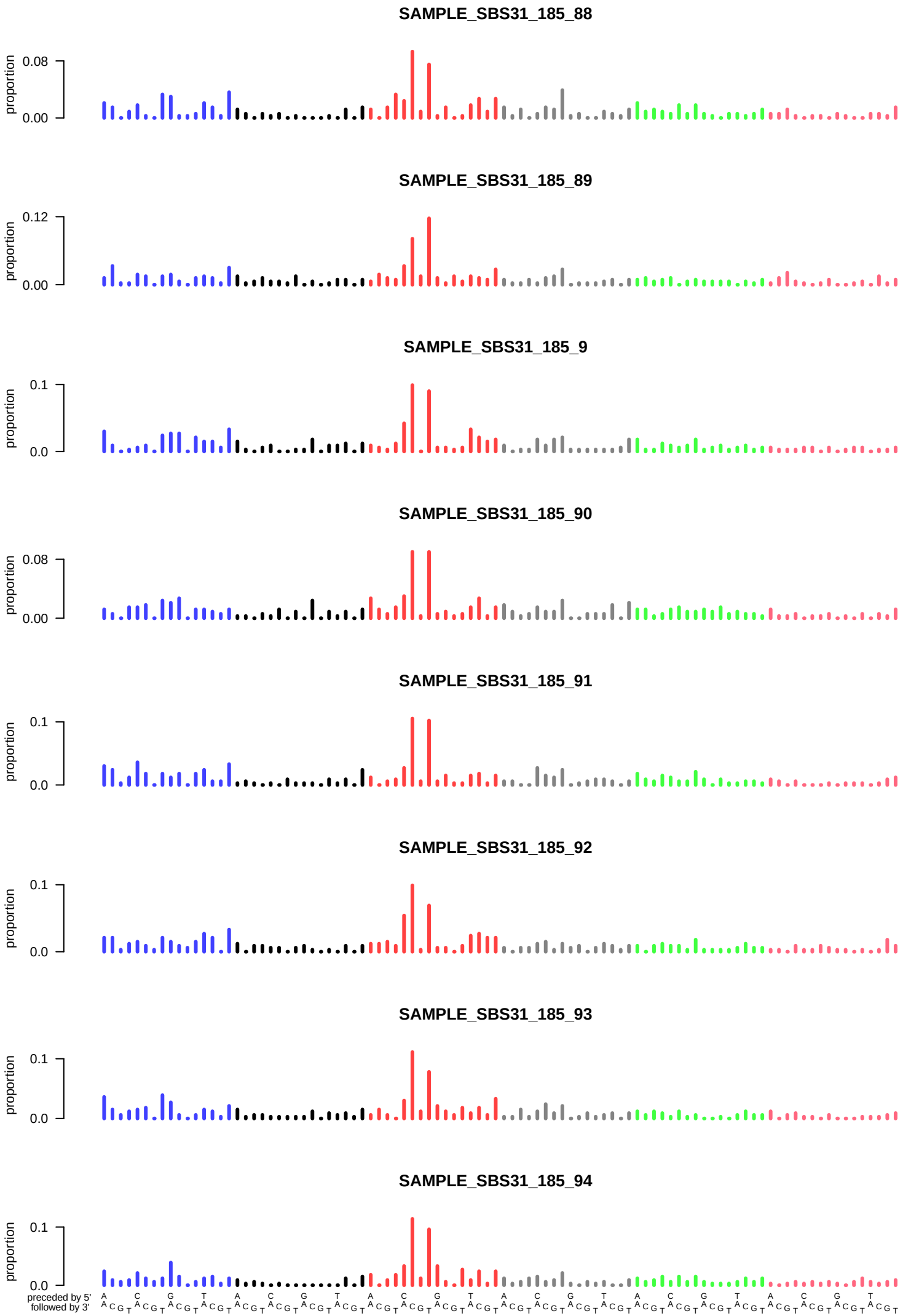
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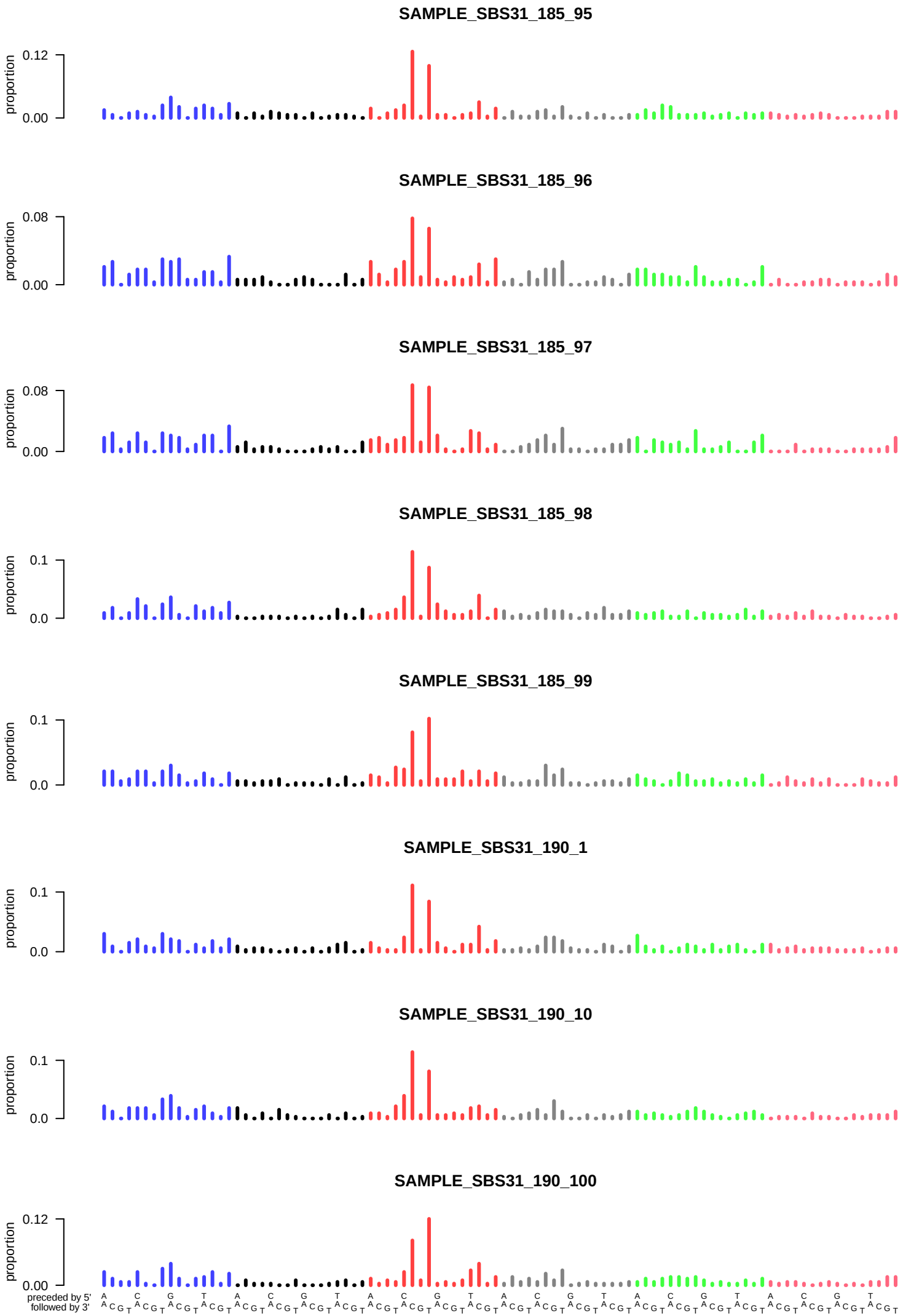
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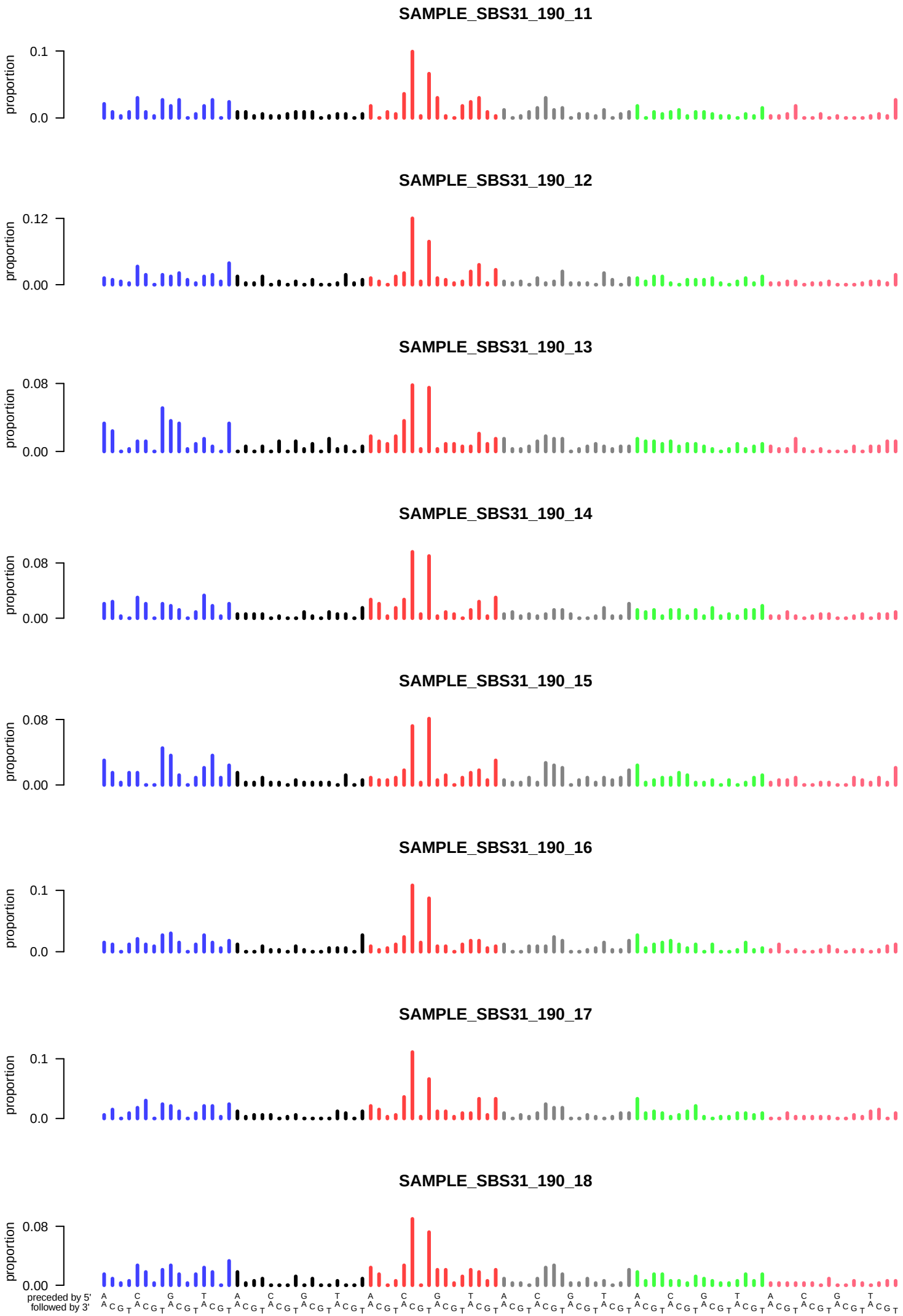
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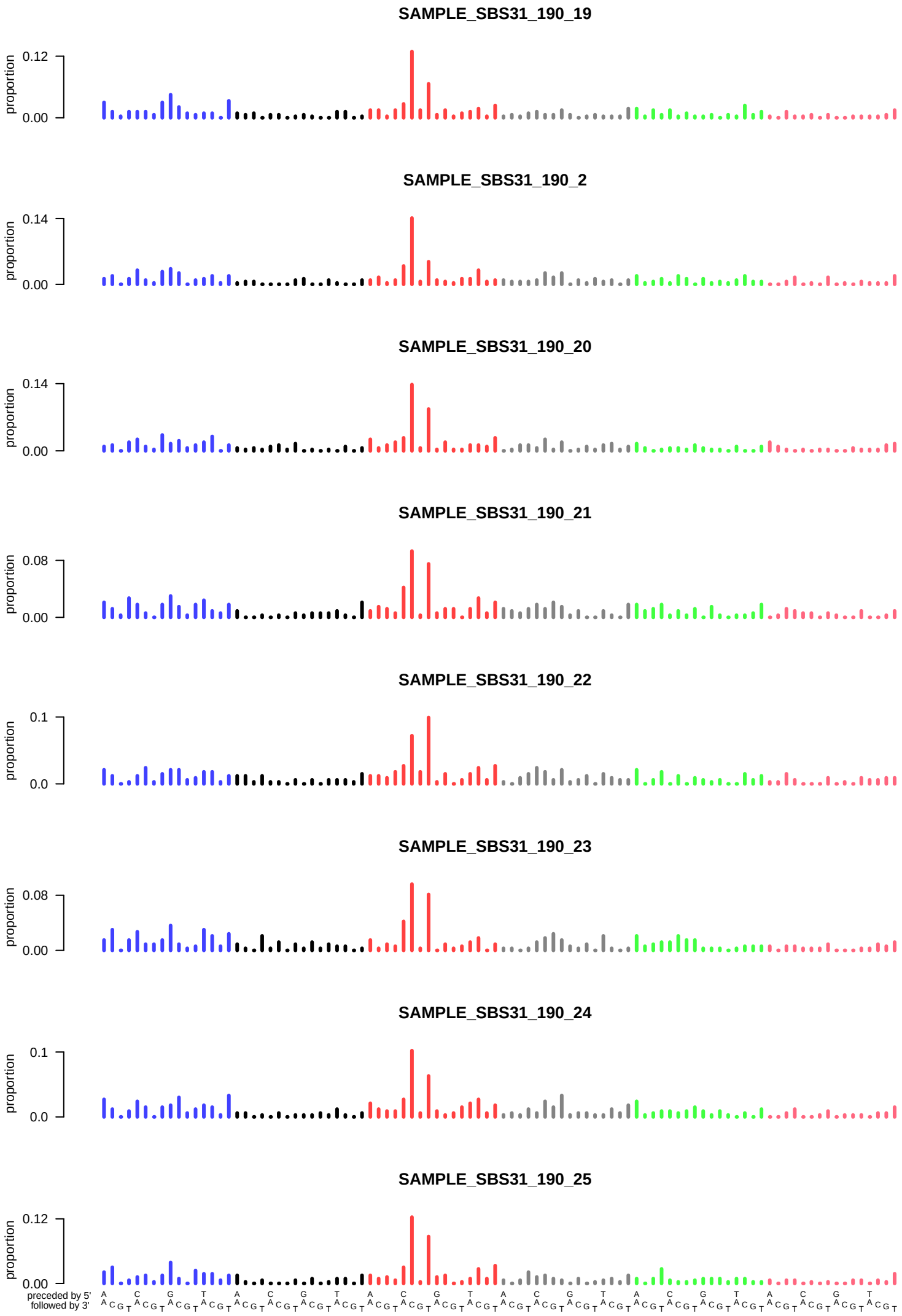
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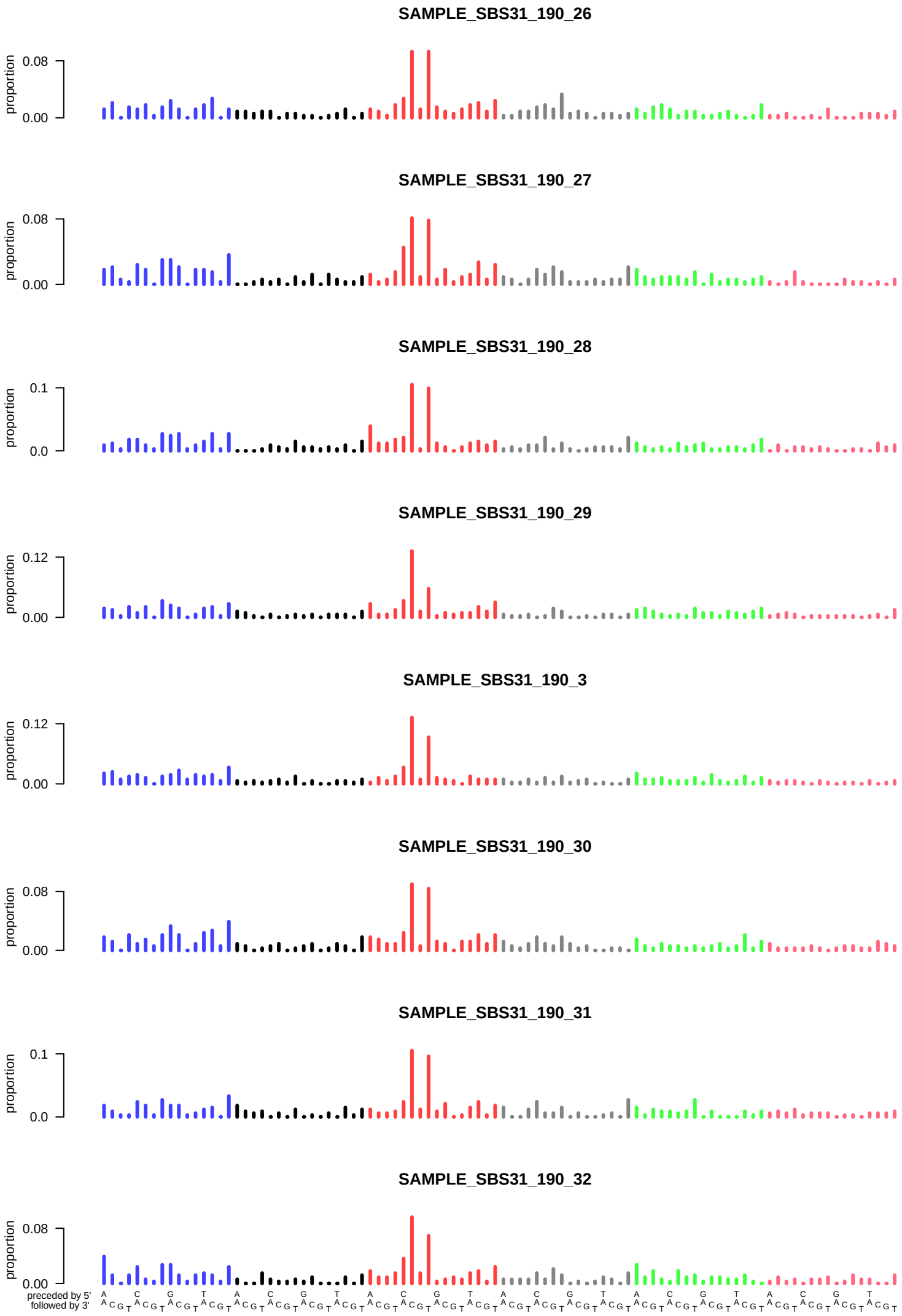
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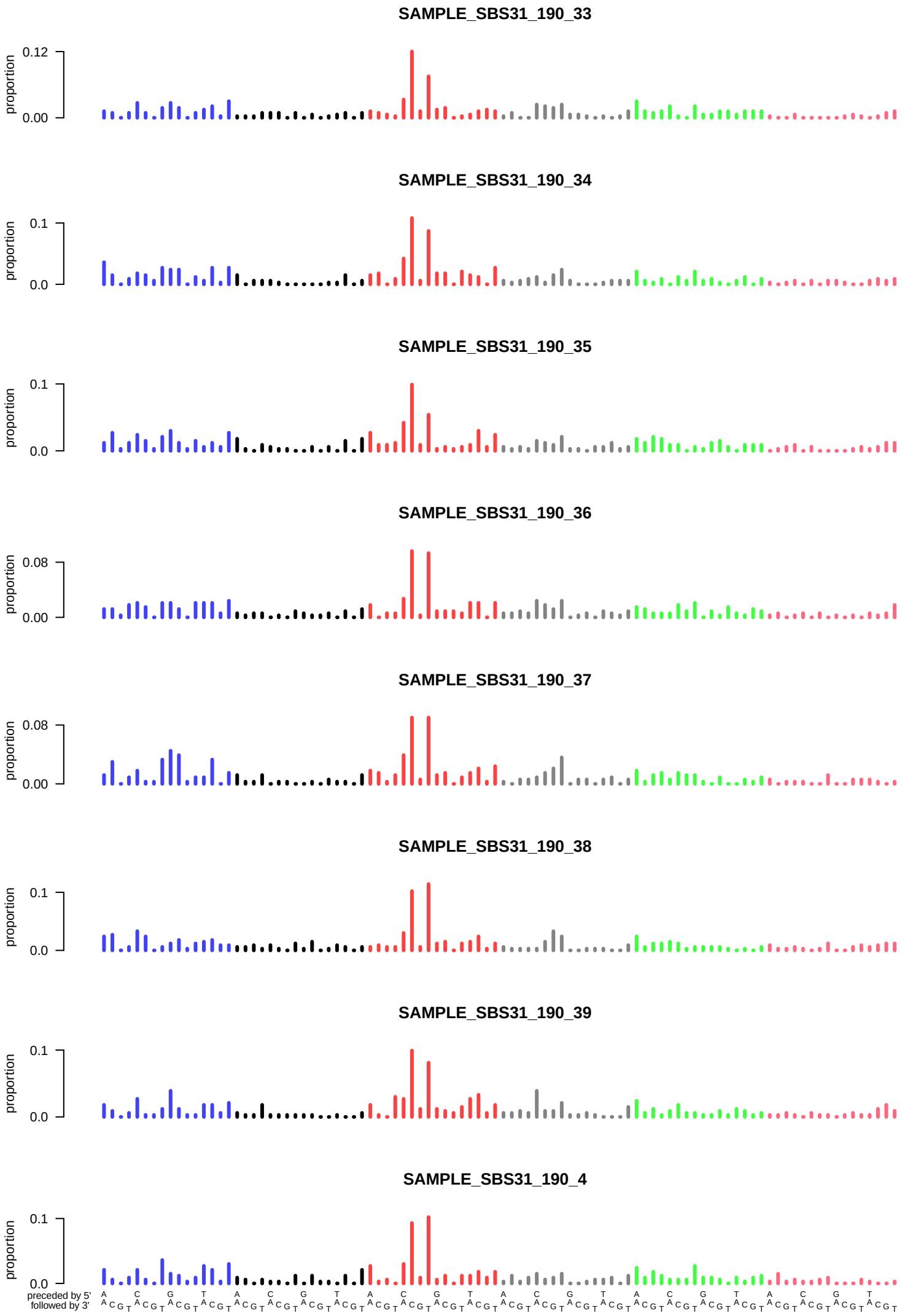
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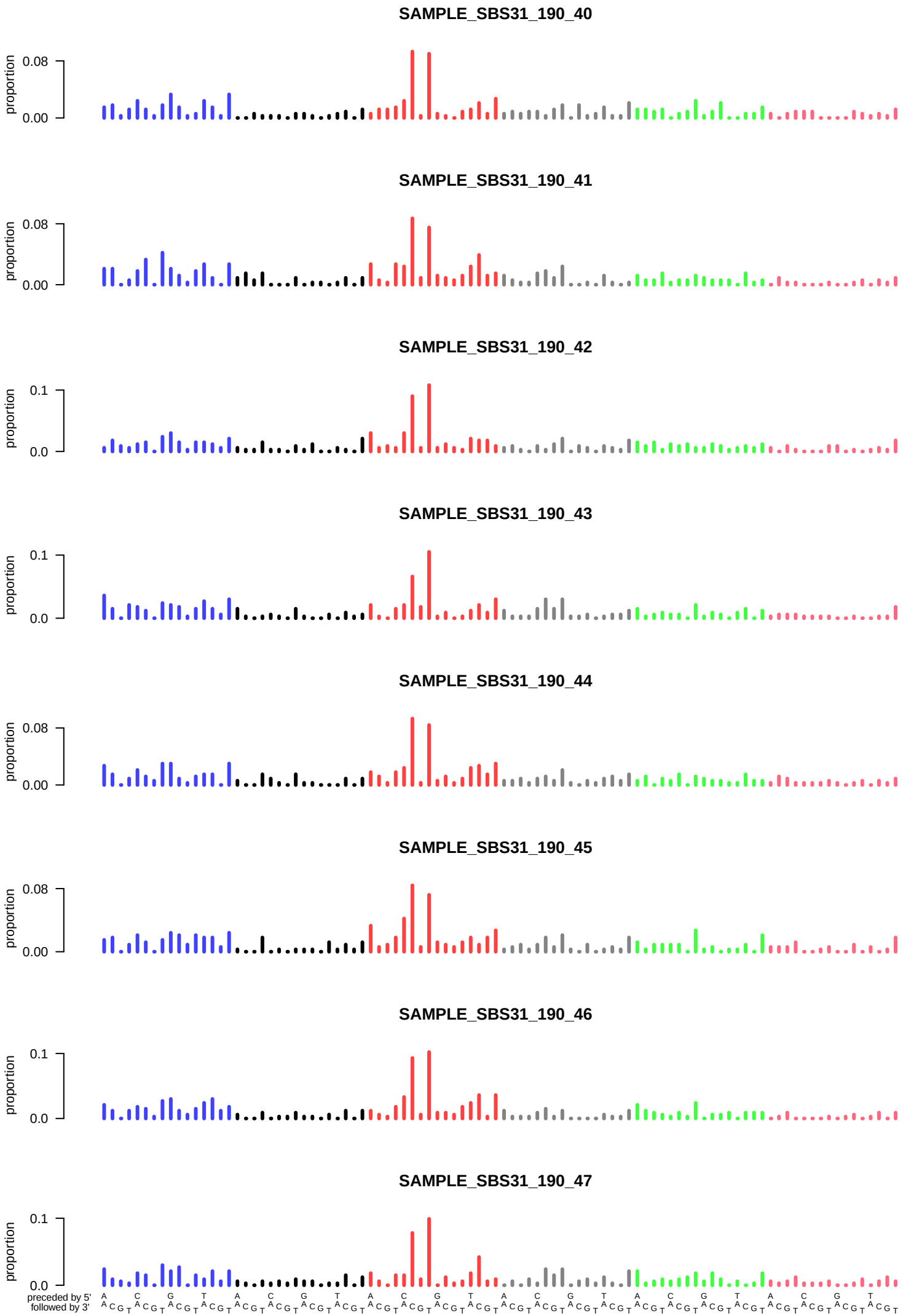
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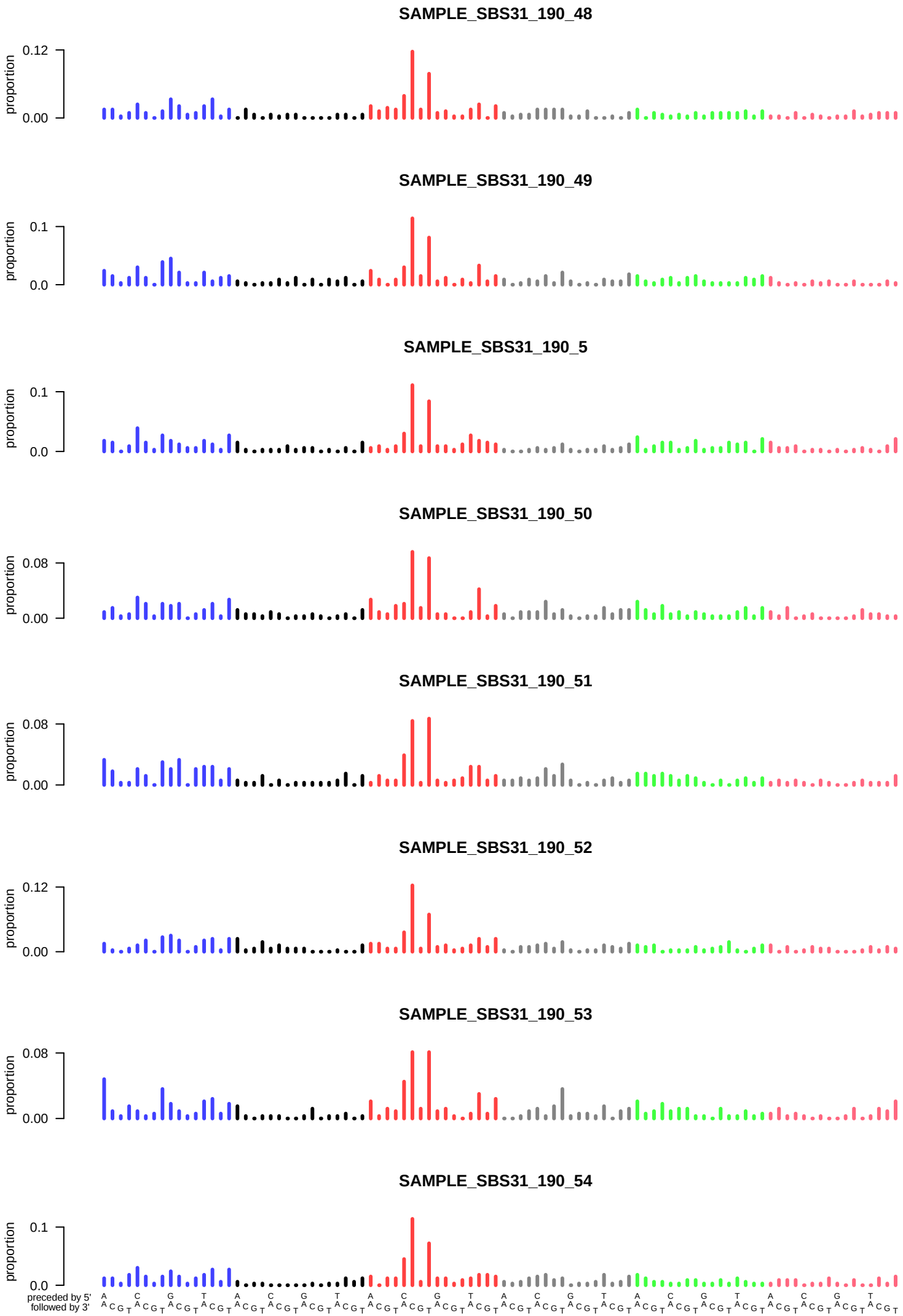
followed by 3'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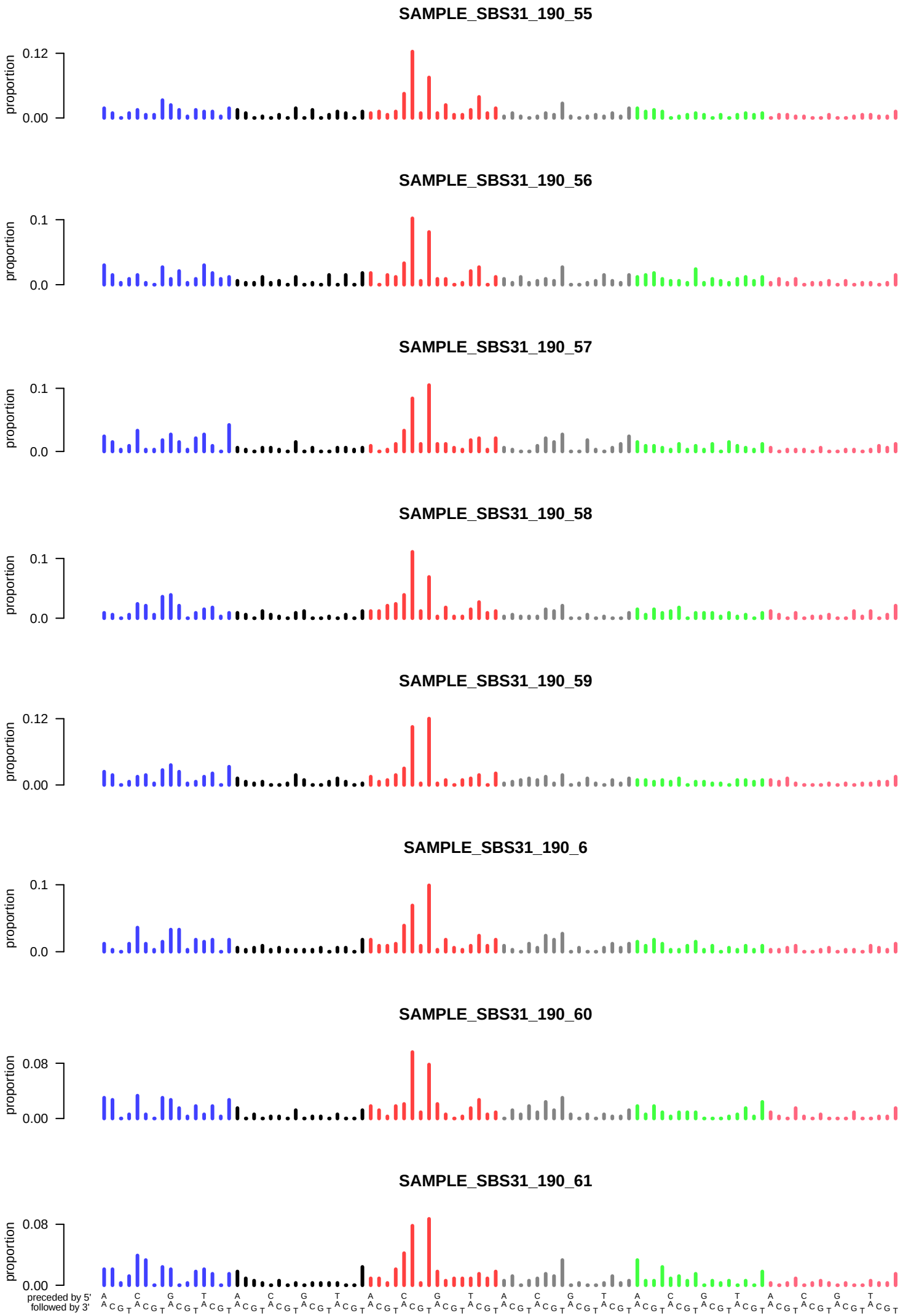
followed by 3'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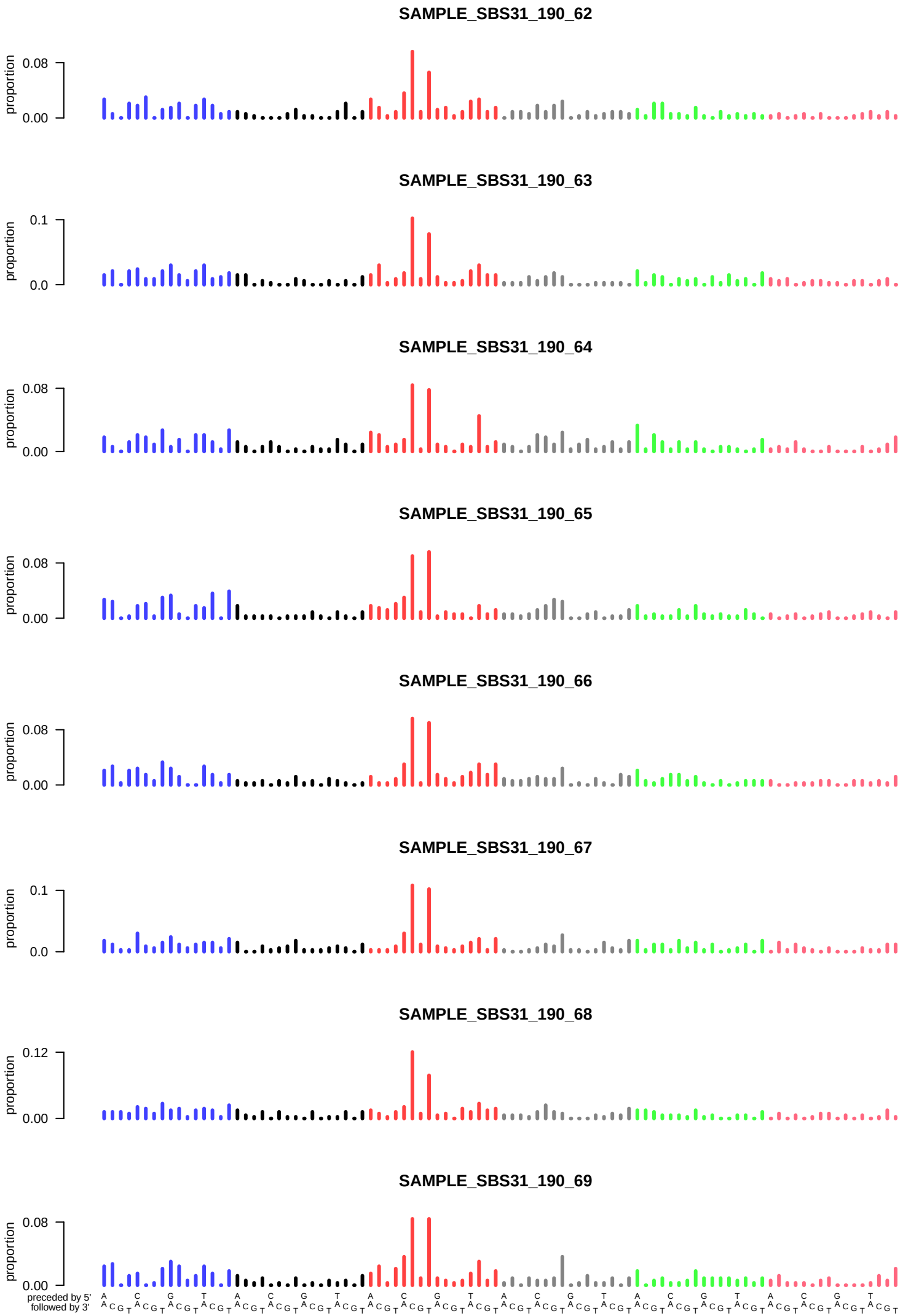
followed by 3'
A C G T A C G T A C G T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SAMPLE_SBS31_190_67
proportion
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SAMPLE_SBS31_190_68
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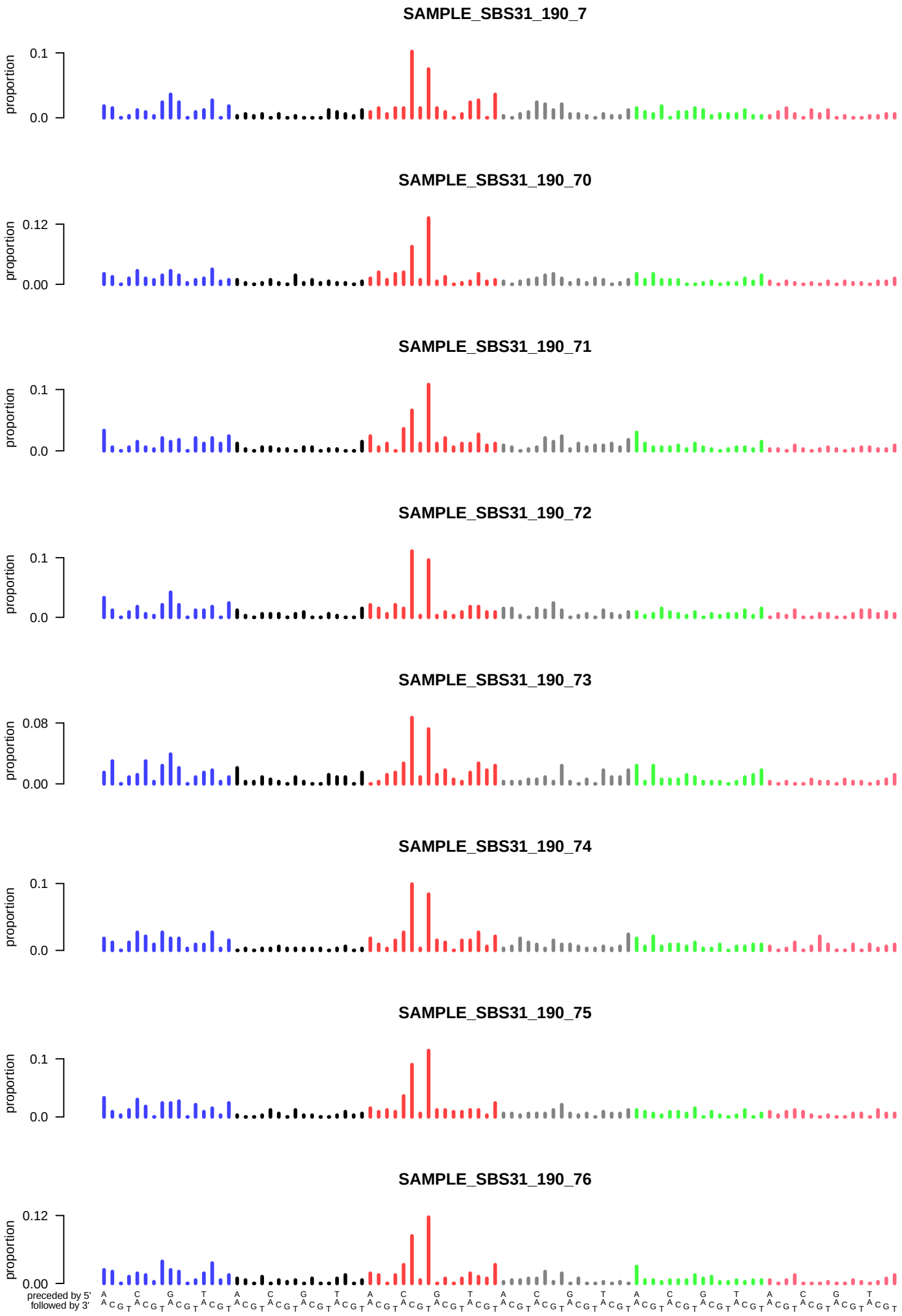
followed by 3'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SAMPLE_SBS31_190_74
SAMPLE_SBS31_190_75
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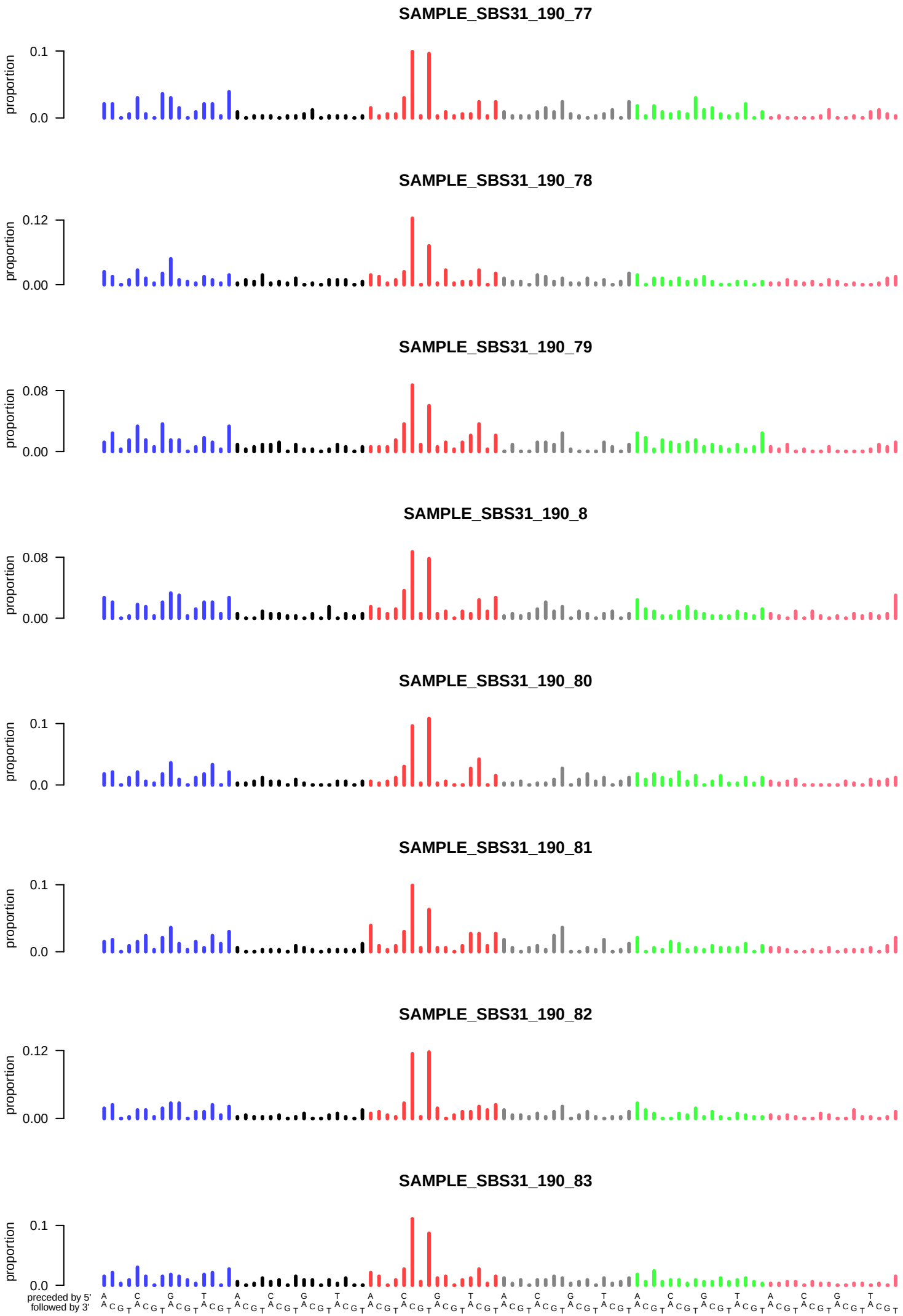
preceded by 5'
followed by 3'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SAMPLE_SBS31_190_81
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SAMPLE_SBS31_190_82
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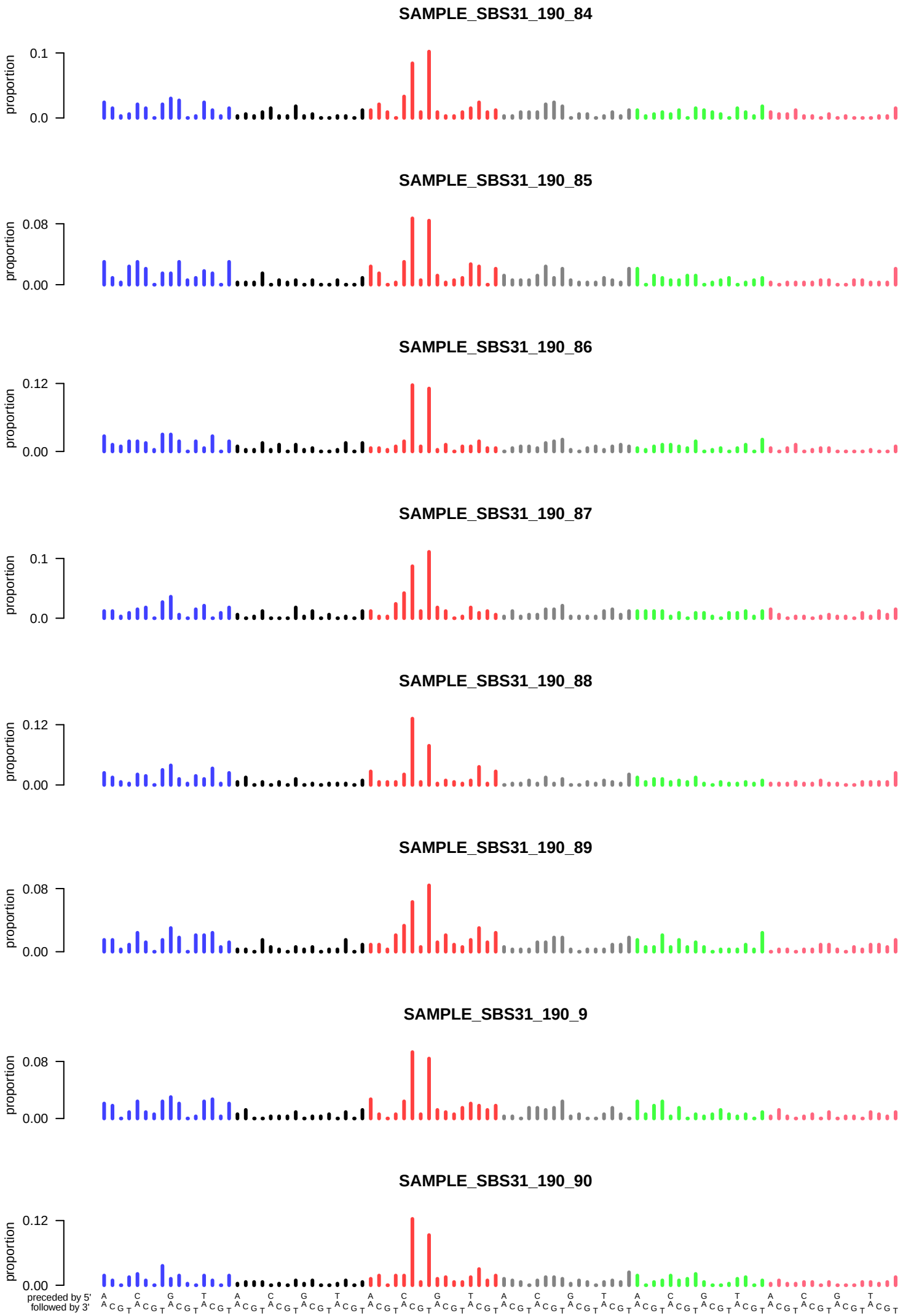
followed by 3'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SAMPLE_SBS31_190_9
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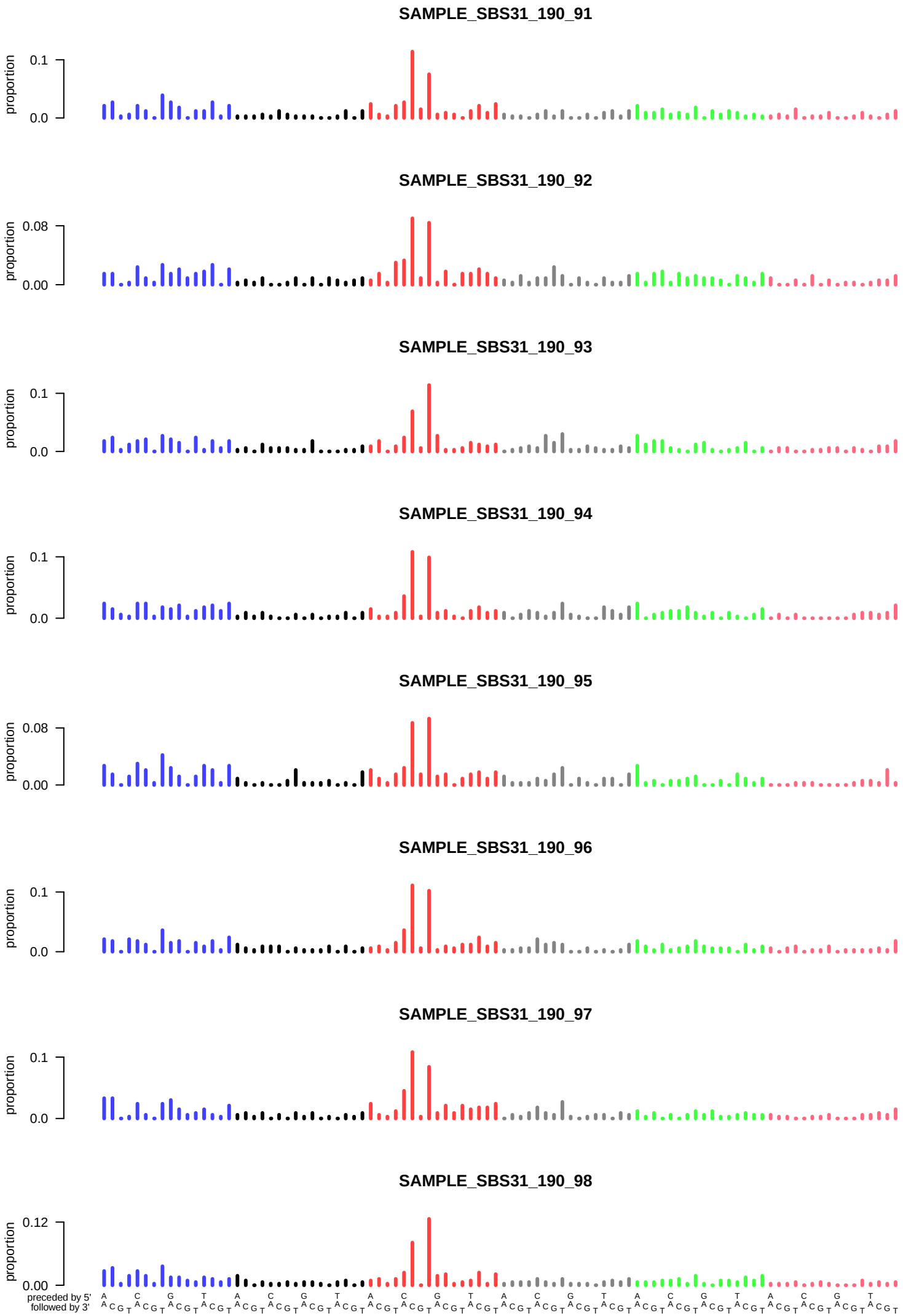
followed by 3'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proportion
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SAMPLE_SBS31_190_94
proportion
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SAMPLE_SBS31_190_95
proportion
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SAMPLE_SBS31_190_96
proportion
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SAMPLE_SBS31_190_97
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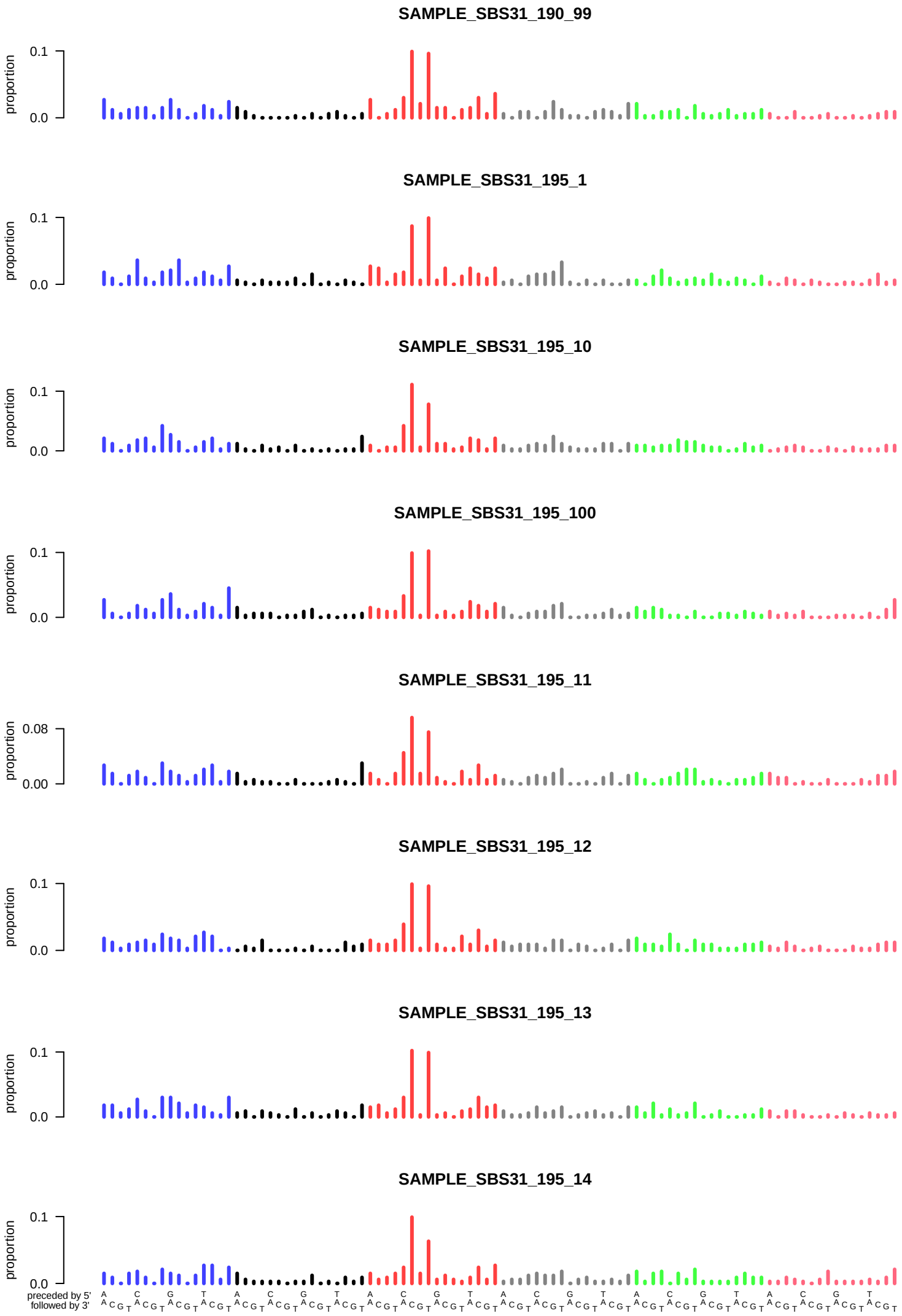
followed by 3'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SAMPLE_SBS31_195_100
SAMPLE_SBS31_195_11
SAMPLE_SBS31_195_12
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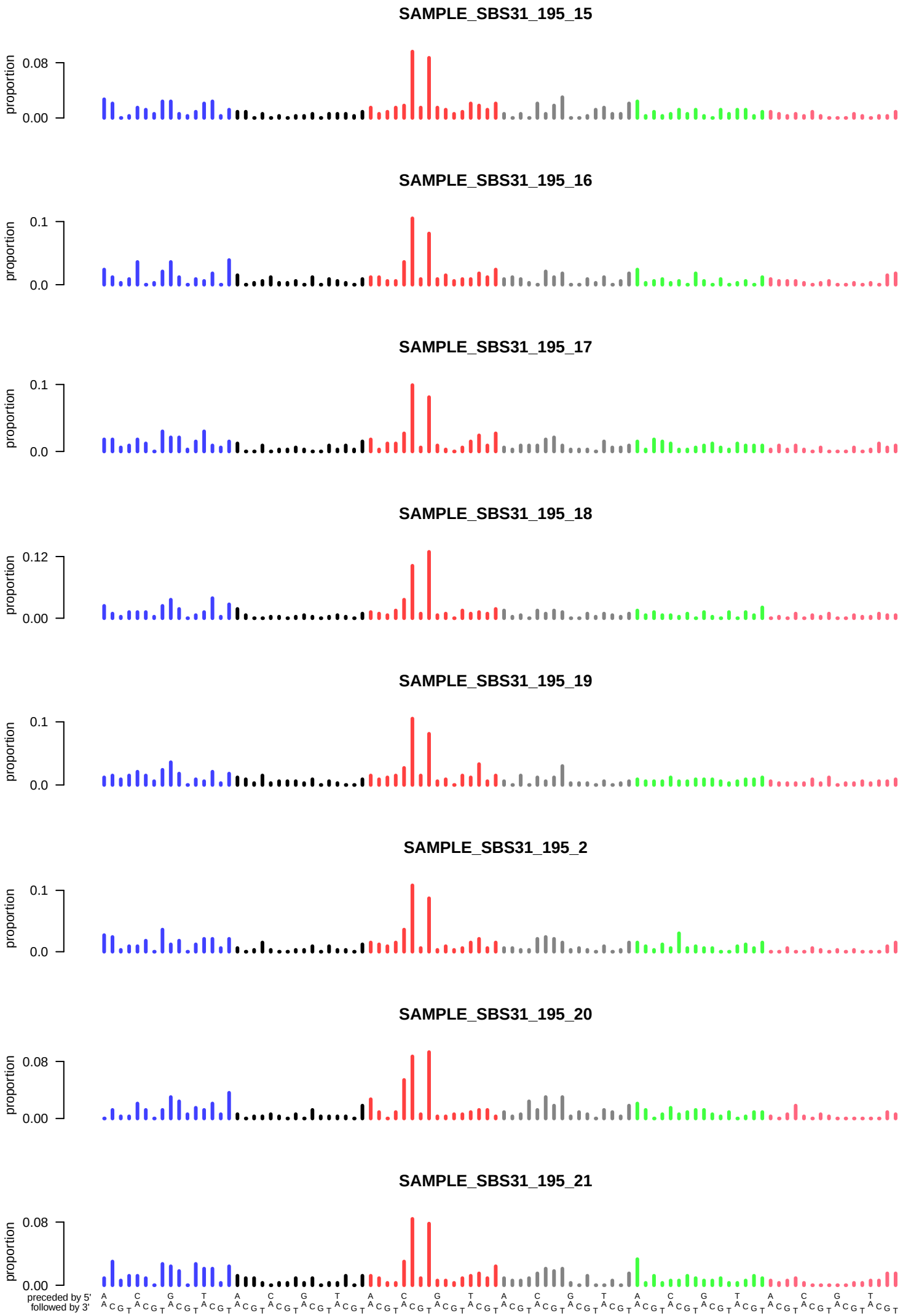
preceded by 5'
followed by 3'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SAMPLE_SBS31_195_19
proportion
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SAMPLE_SBS31_195_2
proportion
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SAMPLE_SBS31_195_20
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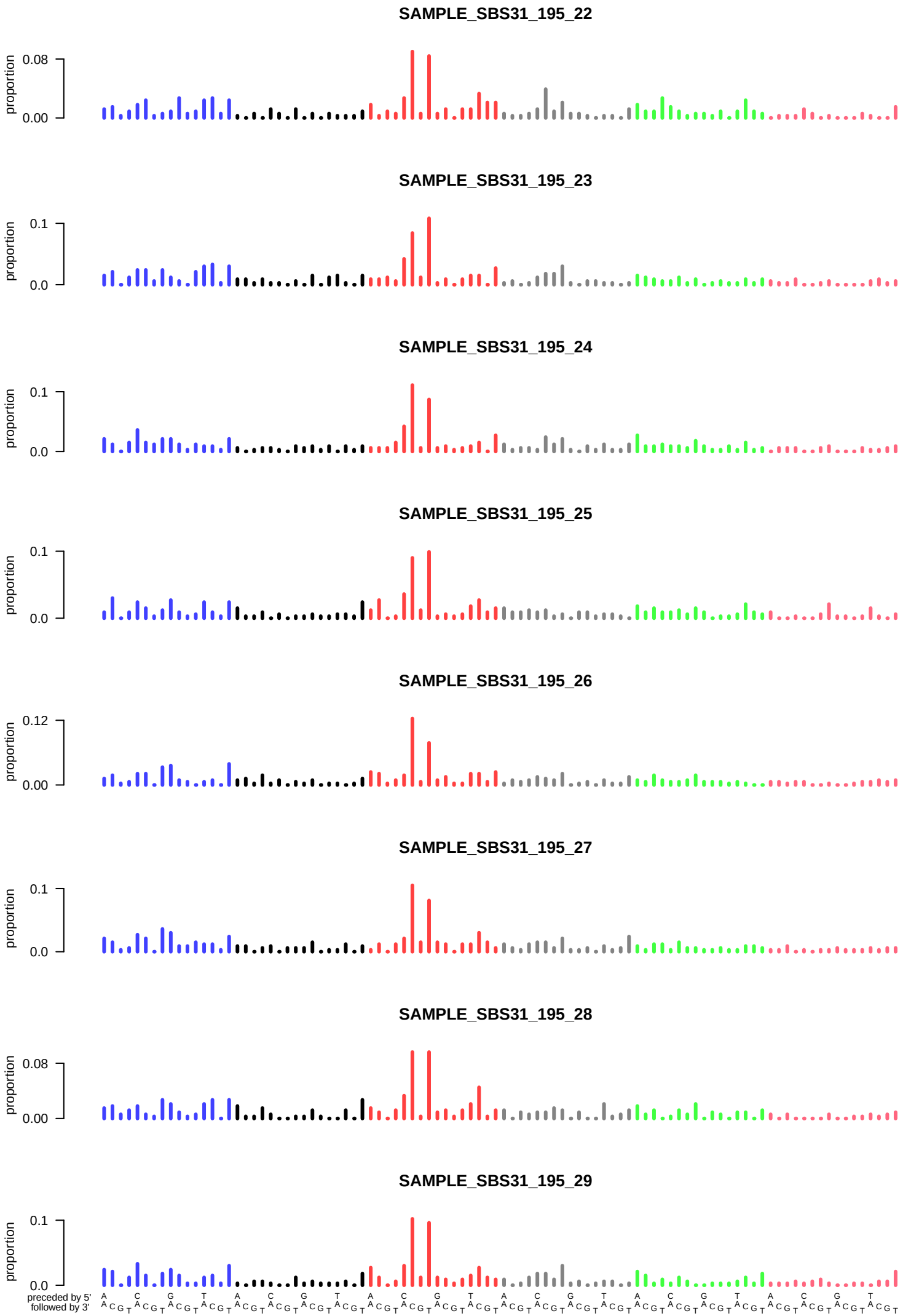
followed by 3'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SAMPLE_SBS31_195_25
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SAMPLE_SBS31_195_26
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proportion
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SAMPLE_SBS31_195_28
proportion
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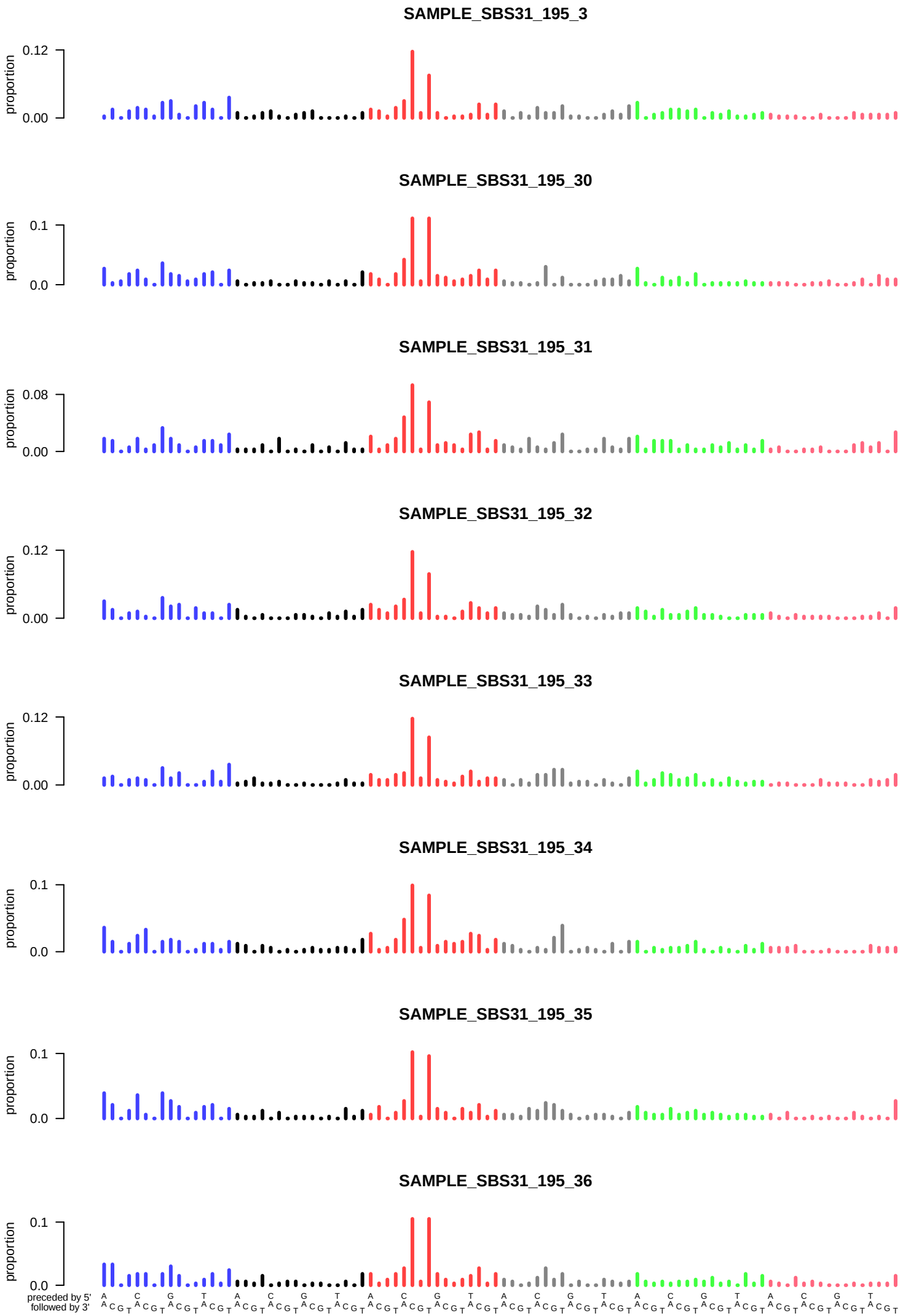
preceded by 5'
followed by 3'
A C G T A C G T A C G T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SAMPLE_SBS31_195_32
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SAMPLE_SBS31_195_34
proportion
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SAMPLE_SBS31_195_35
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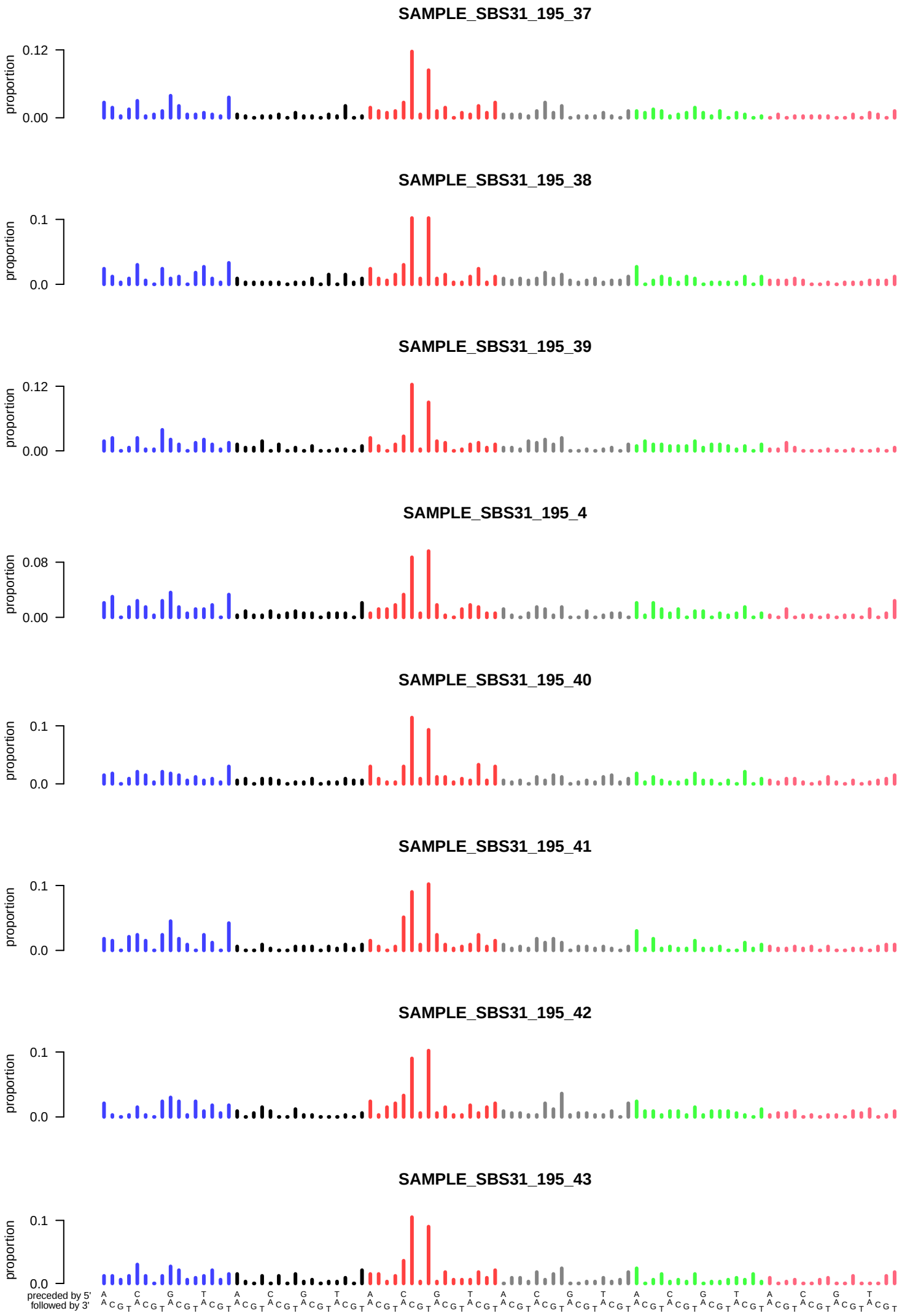
preceded by 5'
followed by 3'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SAMPLE_SBS31_195_41
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SAMPLE_SBS31_195_42
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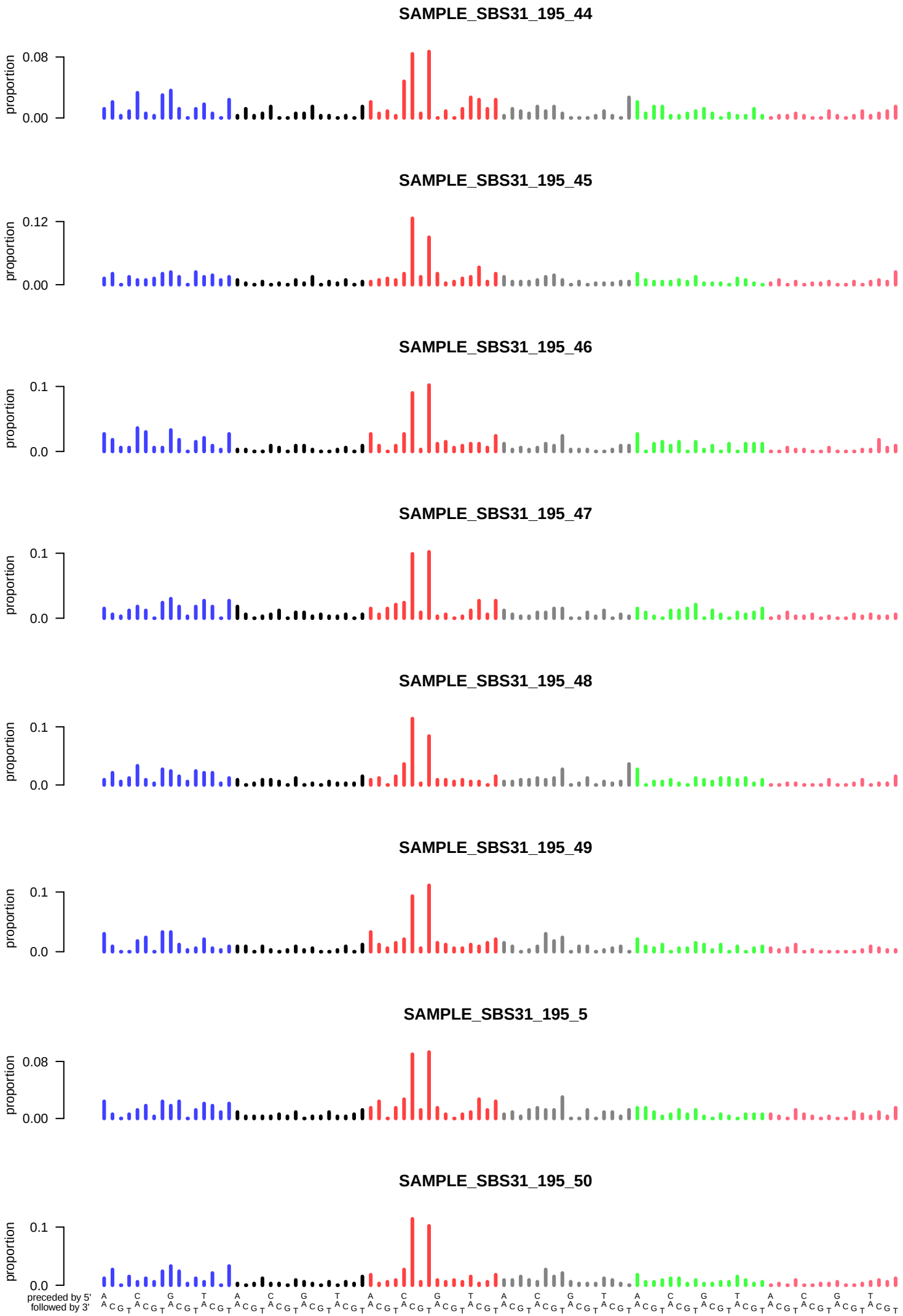
followed by 3'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SAMPLE_SBS31_195_48
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SAMPLE_SBS31_195_49
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SAMPLE_SBS31_195_5
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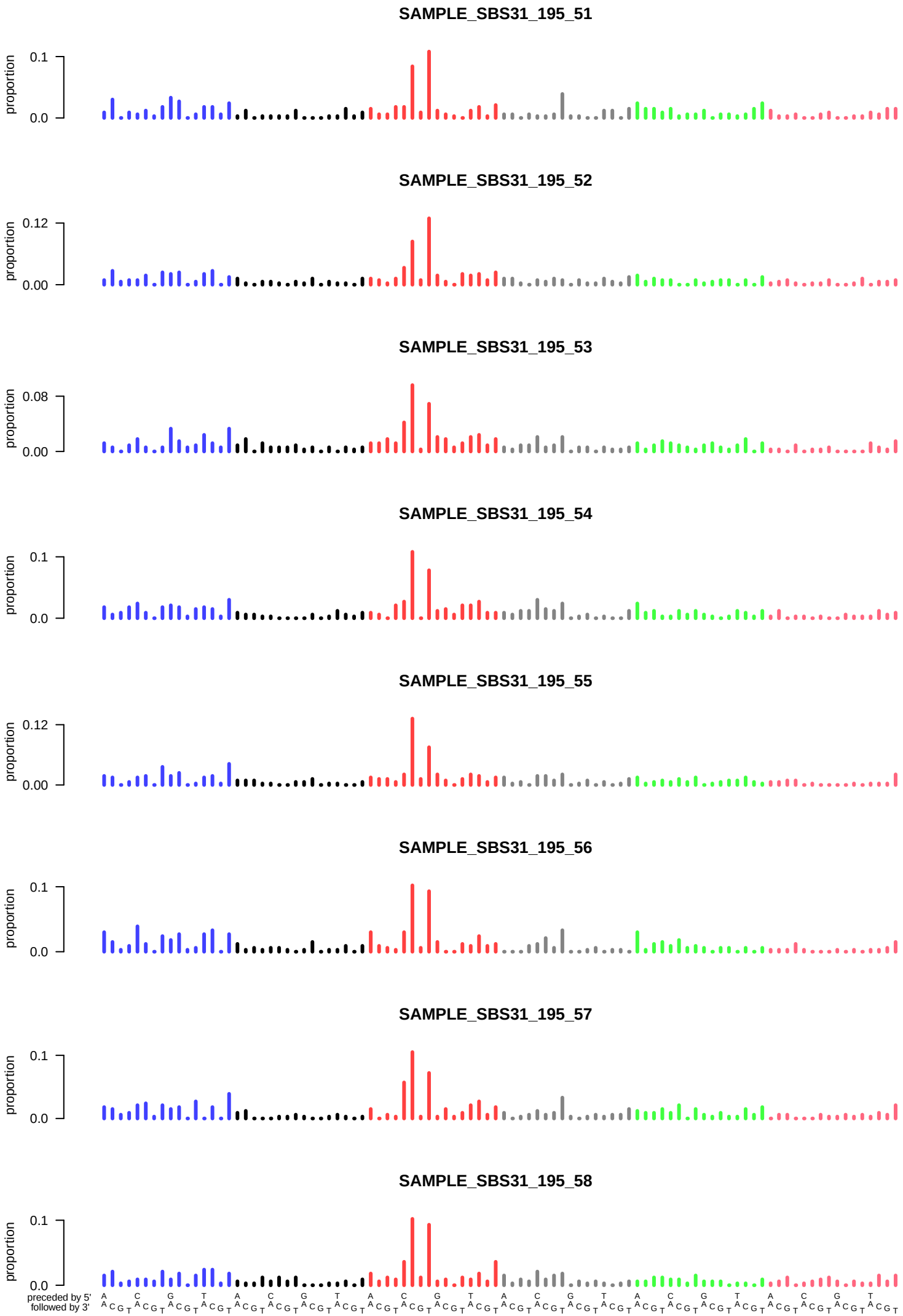
preceded by 5'
followed by 3'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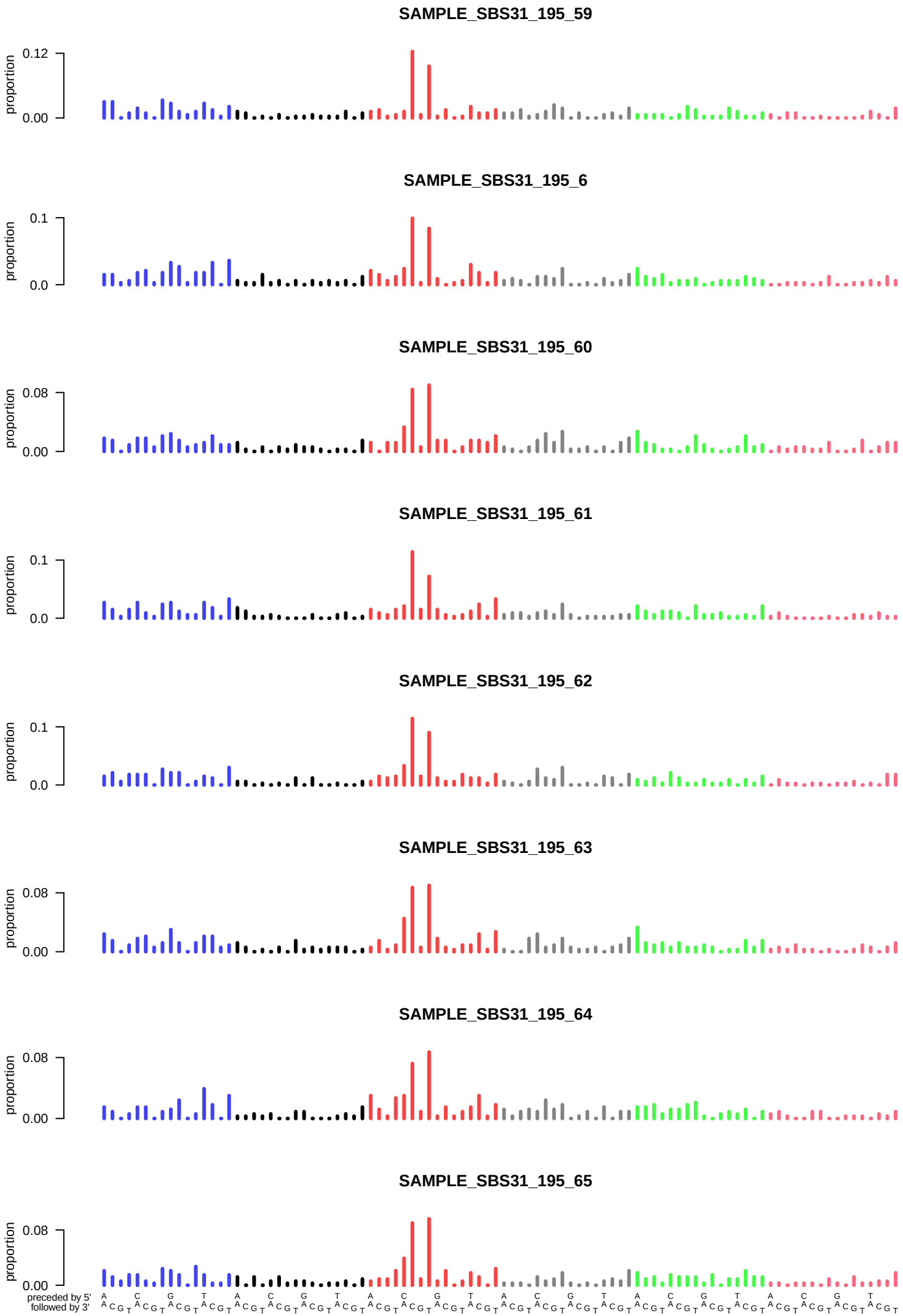
followed by 3'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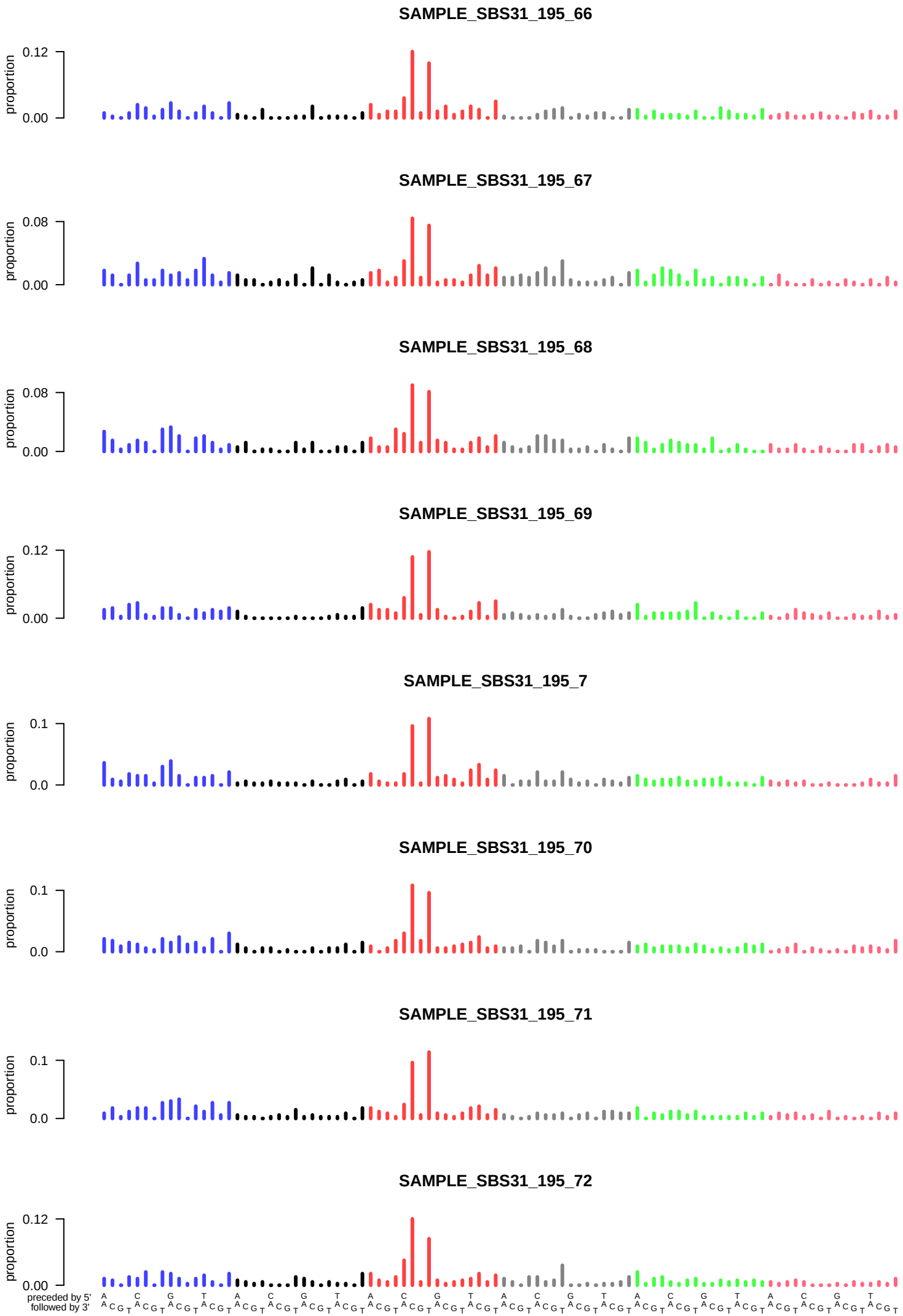
followed by 3'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SAMPLE_SBS31_195_7
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SAMPLE_SBS31_195_70
proportion
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SAMPLE_SBS31_195_71
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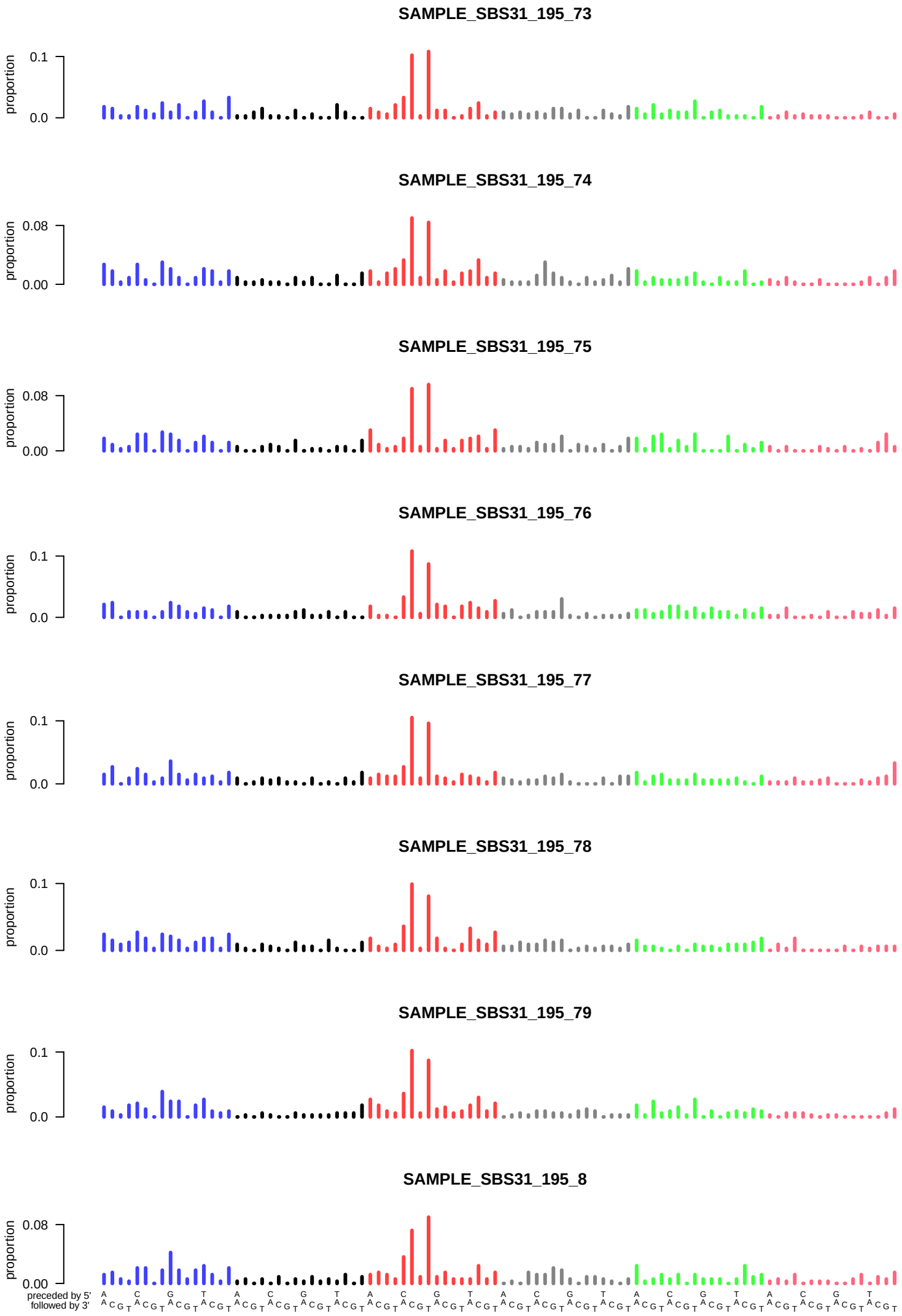
followed by 3'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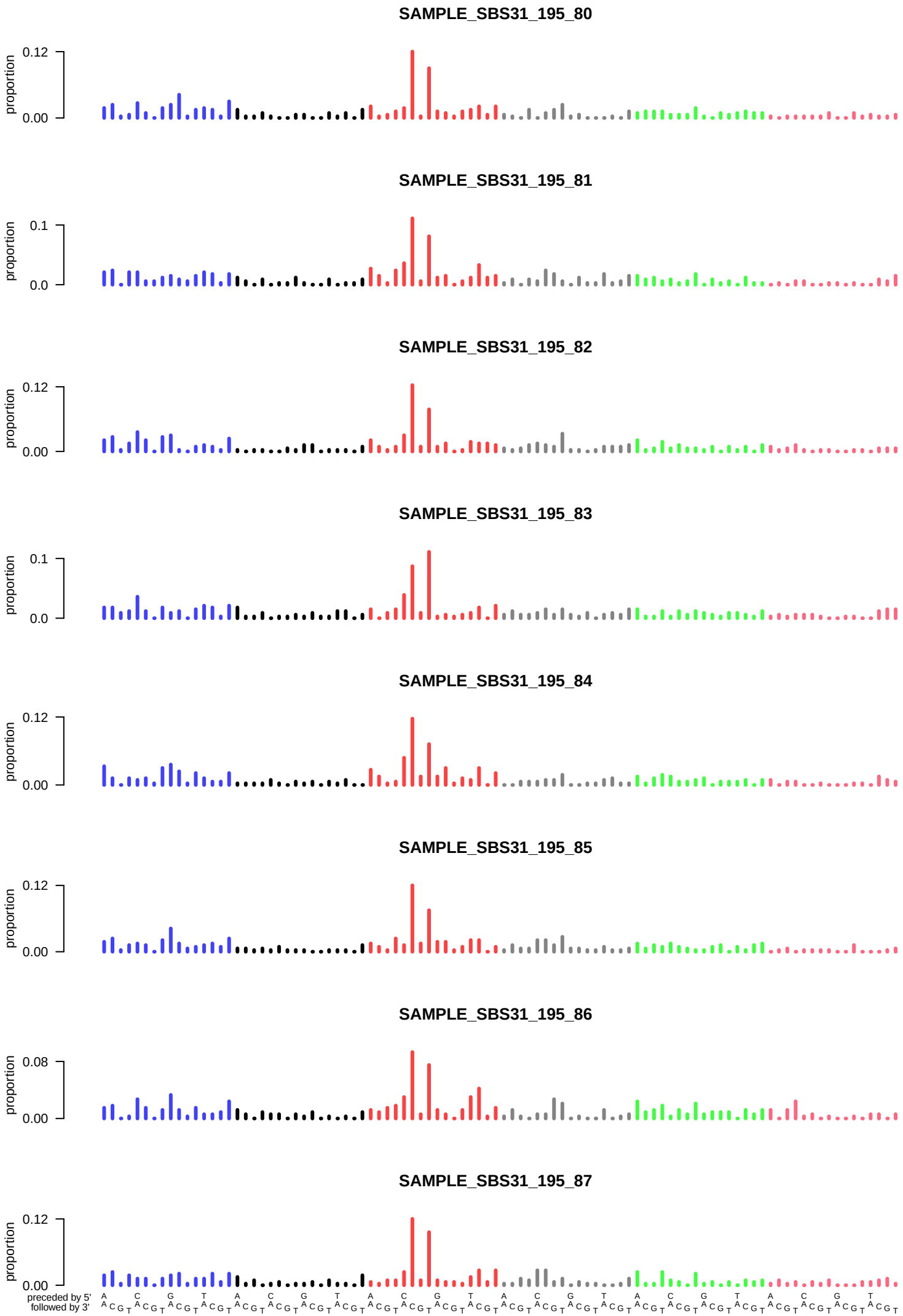
followed by 3'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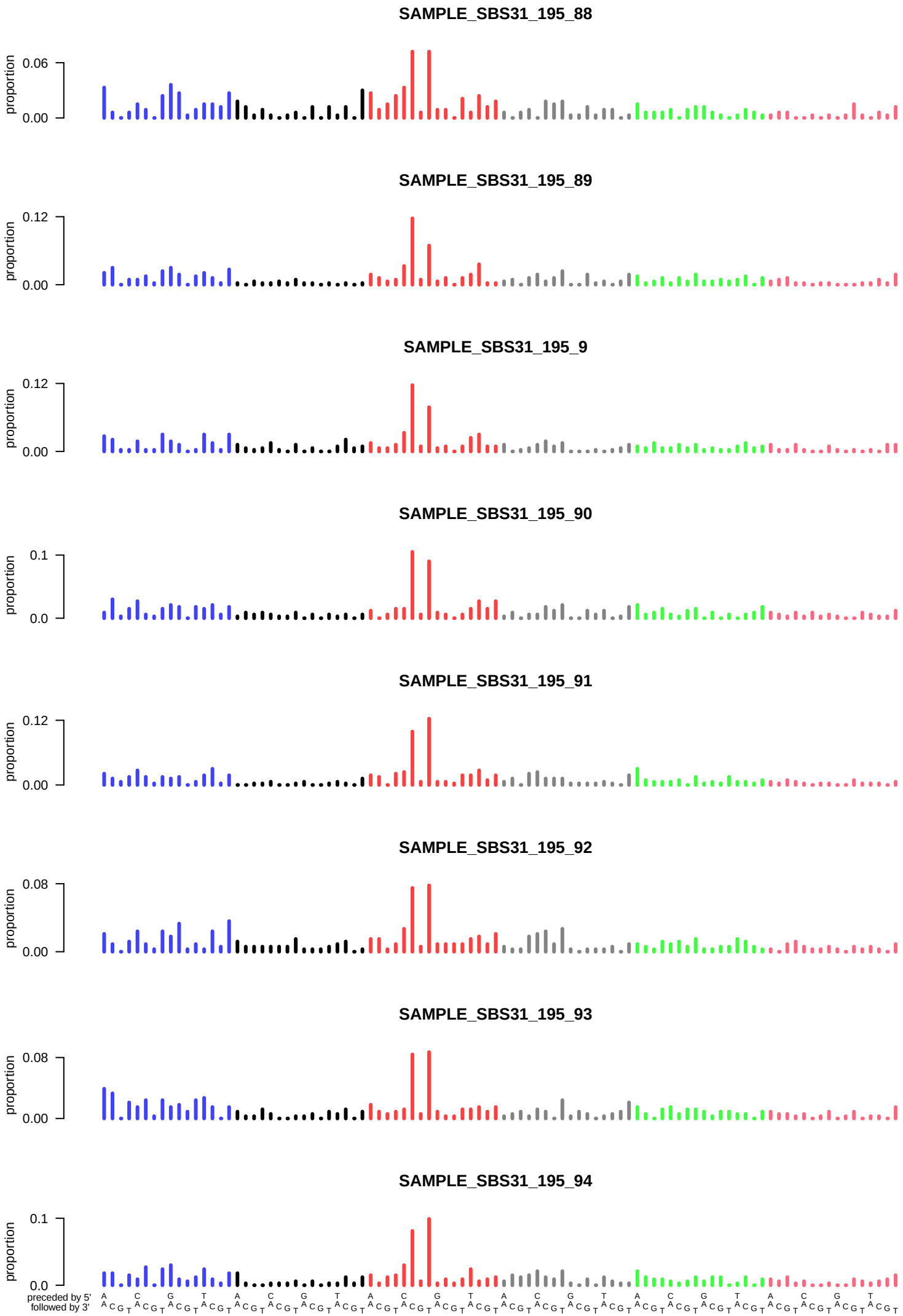
followed by 3'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SAMPLE_SBS31_195_93
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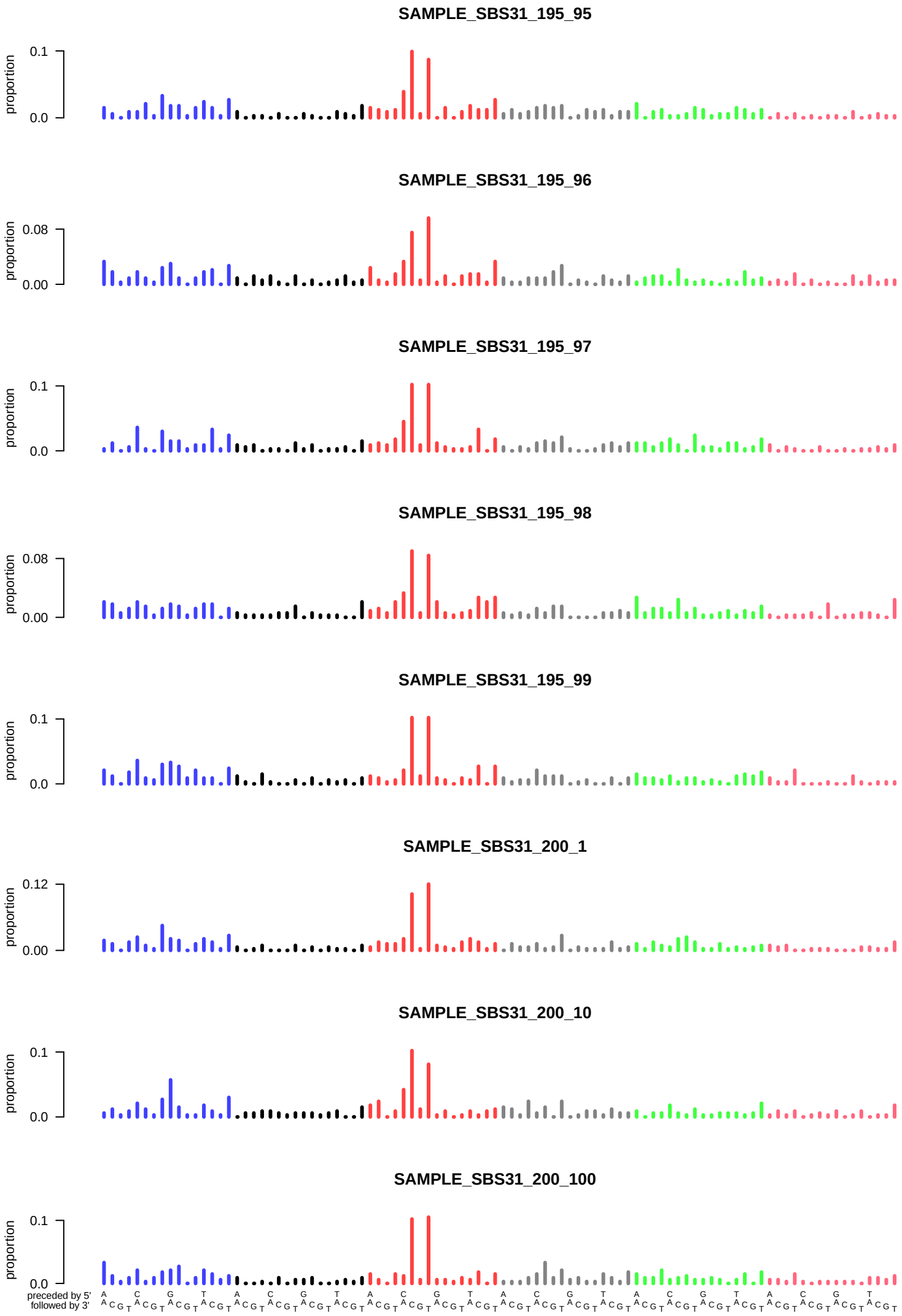
A C G T A C G T A C G T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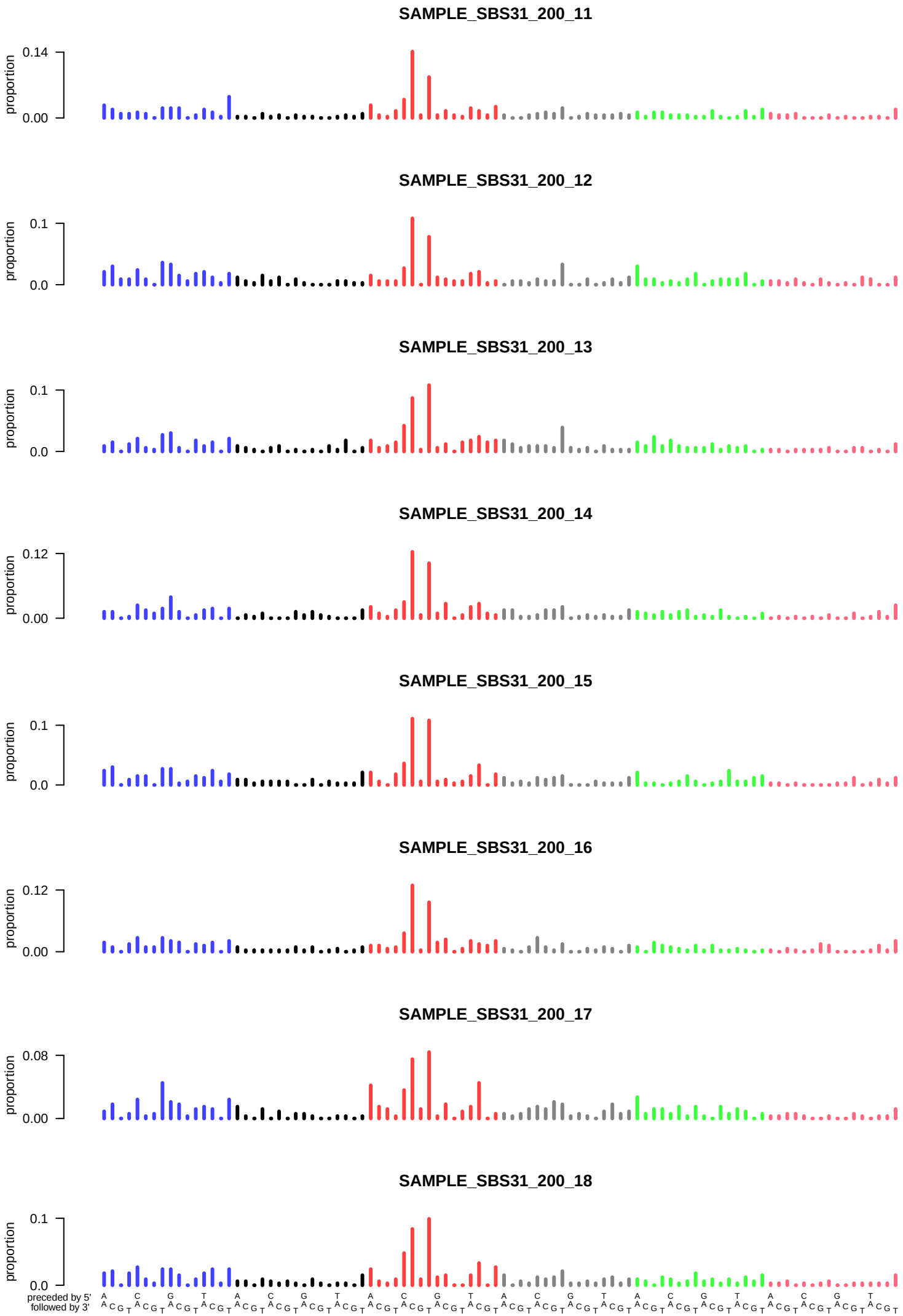
followed by 3'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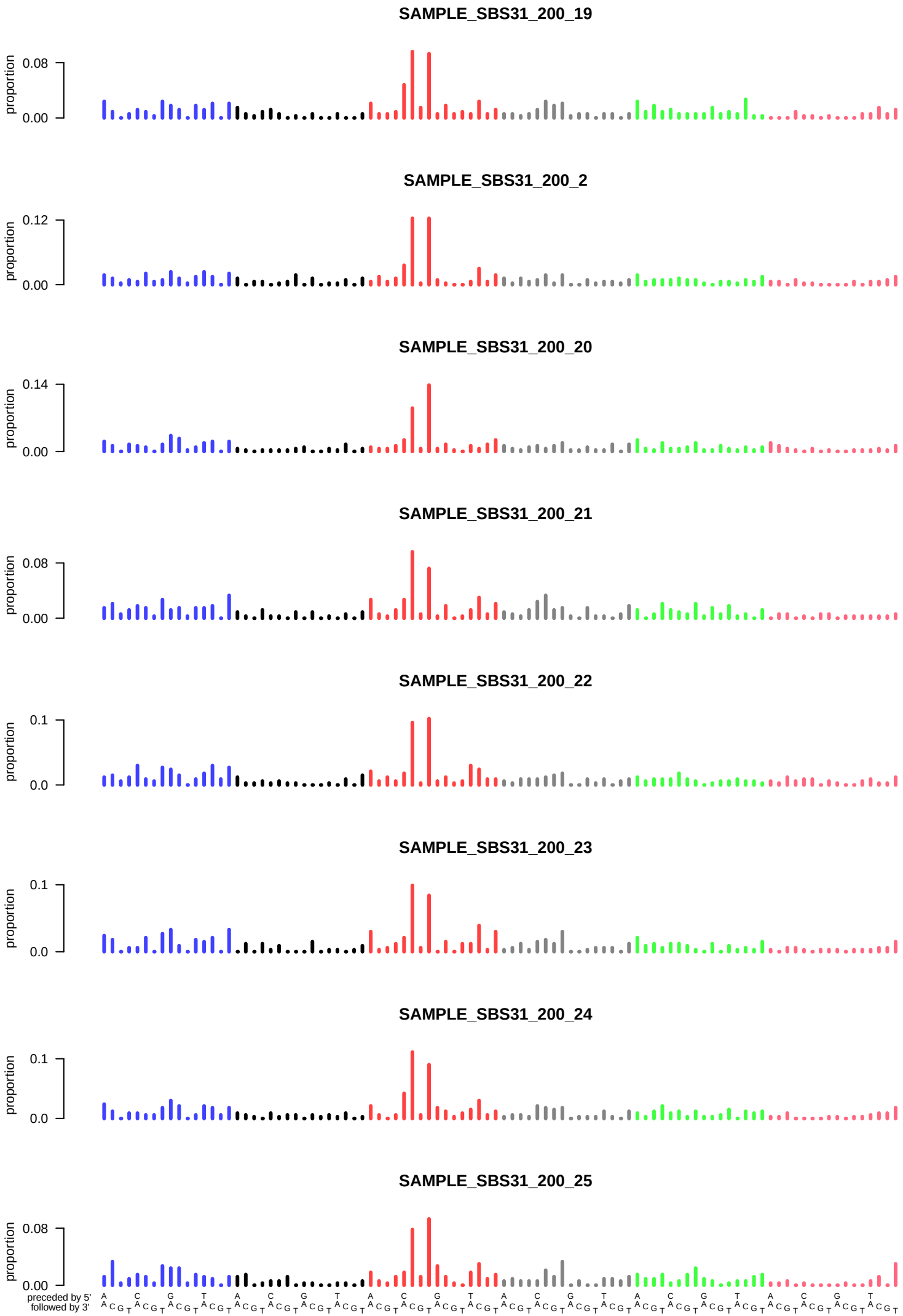
followed by 3'
A C G T A C G T A C G T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proportion
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SAMPLE_SBS31_200_23
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SAMPLE_SBS31_200_24
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SAMPLE_SBS31_200_25
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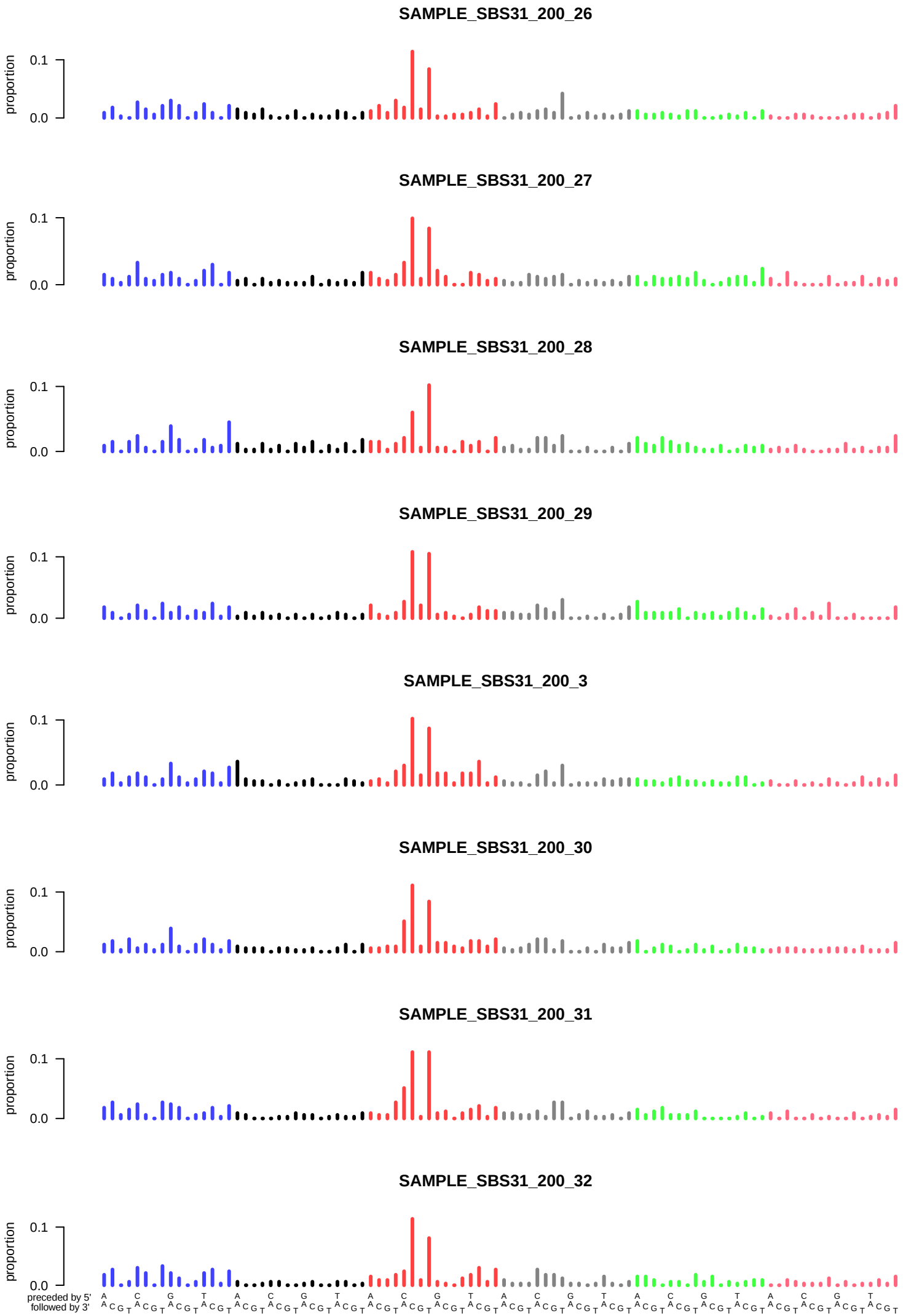
followed by 3'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SAMPLE_SBS31_200_29
SAMPLE_SBS31_200_3
SAMPLE_SBS31_200_30
SAMPLE_SBS31_200_31
SAMPLE_SBS31_200_32
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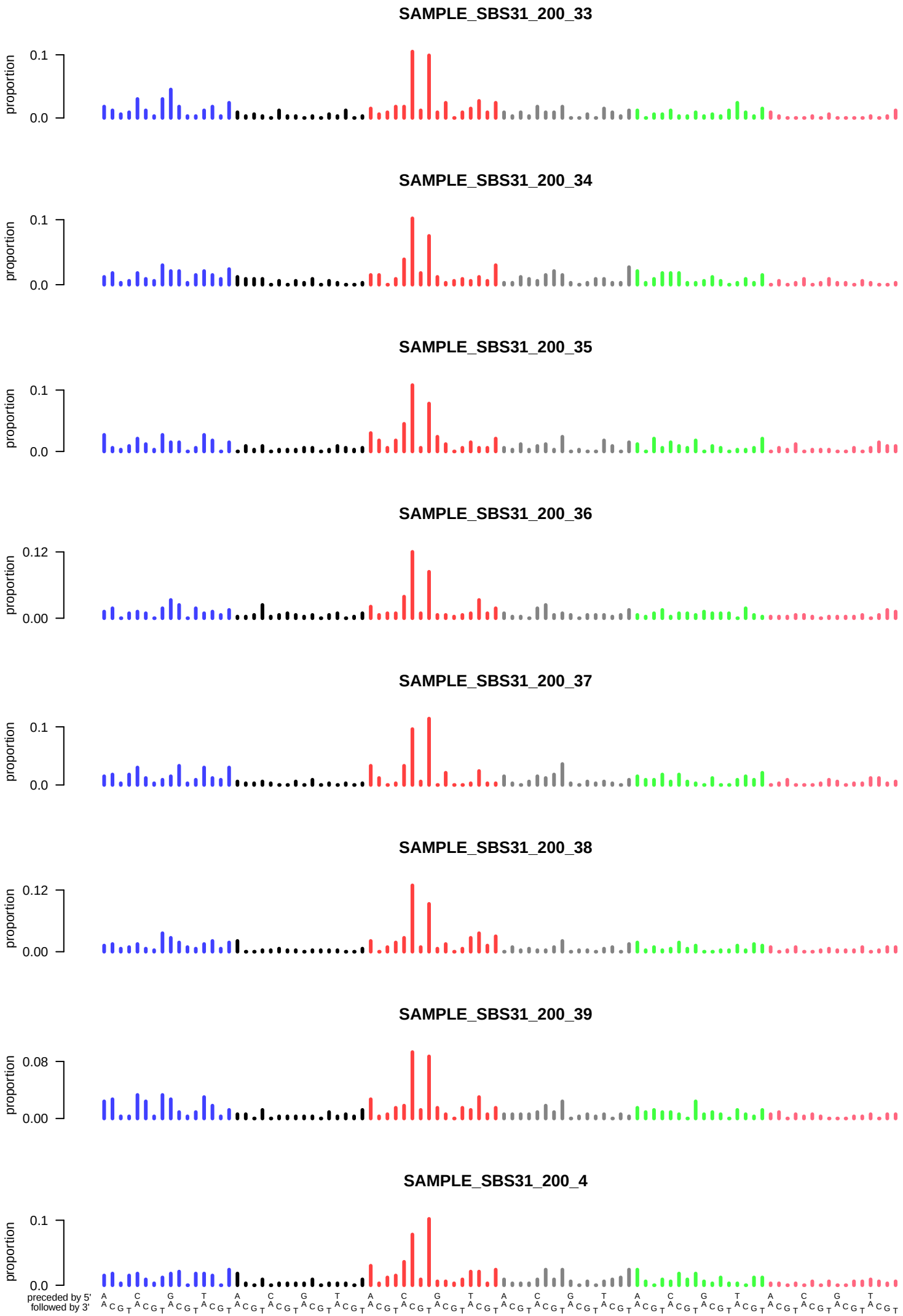
preceded by 5'
followed by 3'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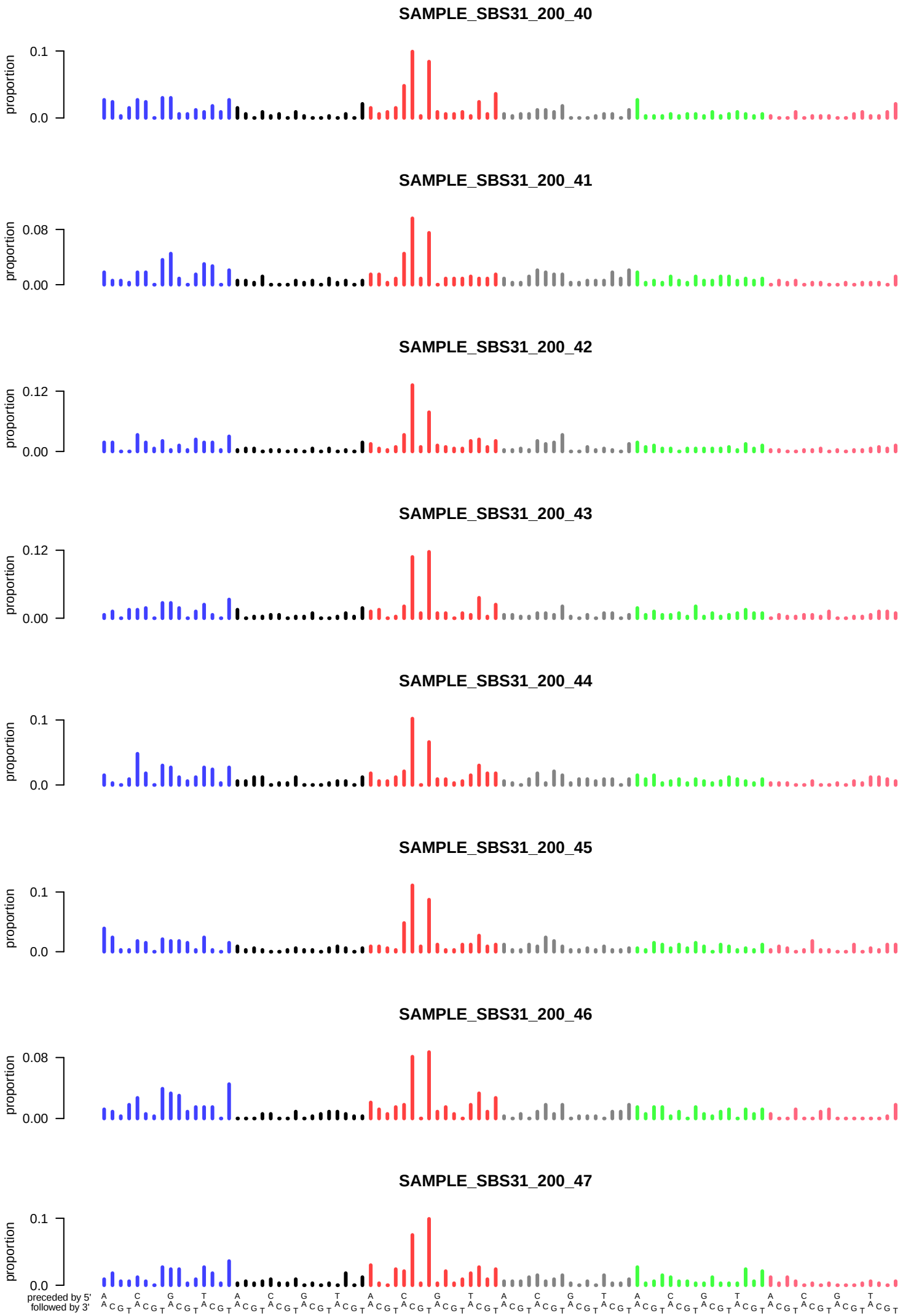
followed by 3'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SAMPLE_SBS31_200_46
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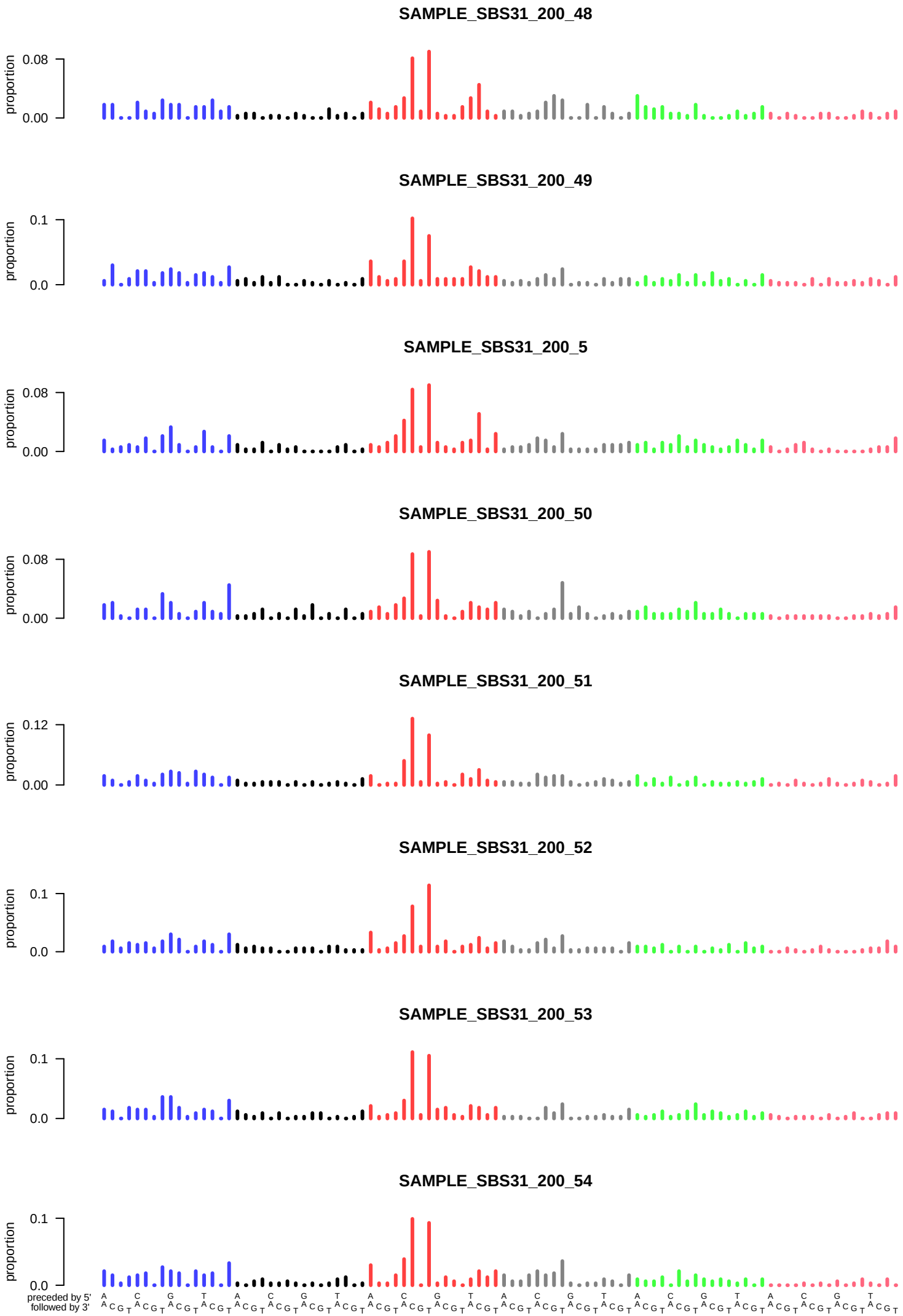
followed by 3'
A C G T A C G T A C G T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SAMPLE_SBS31_200_53
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followed by 3'
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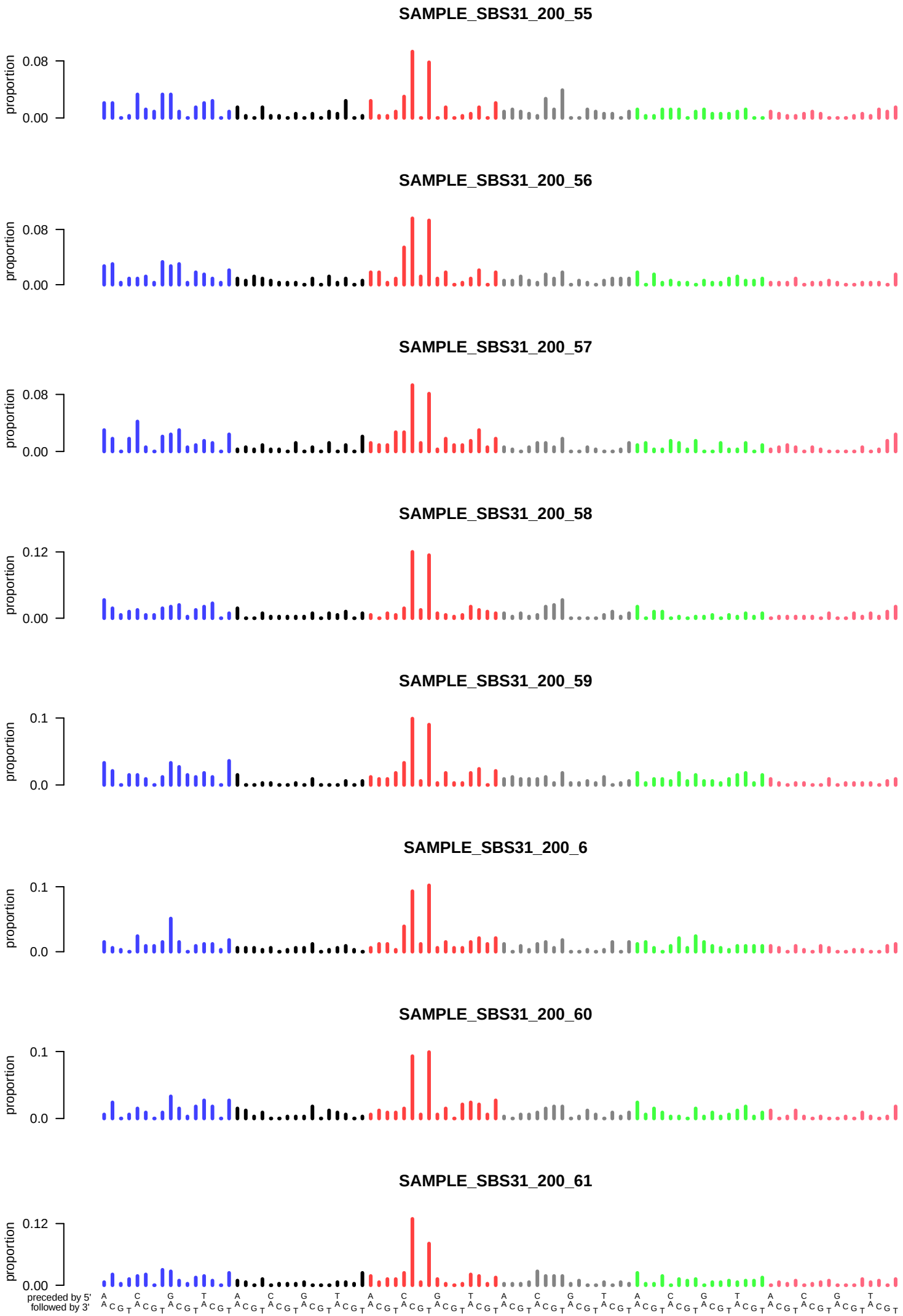
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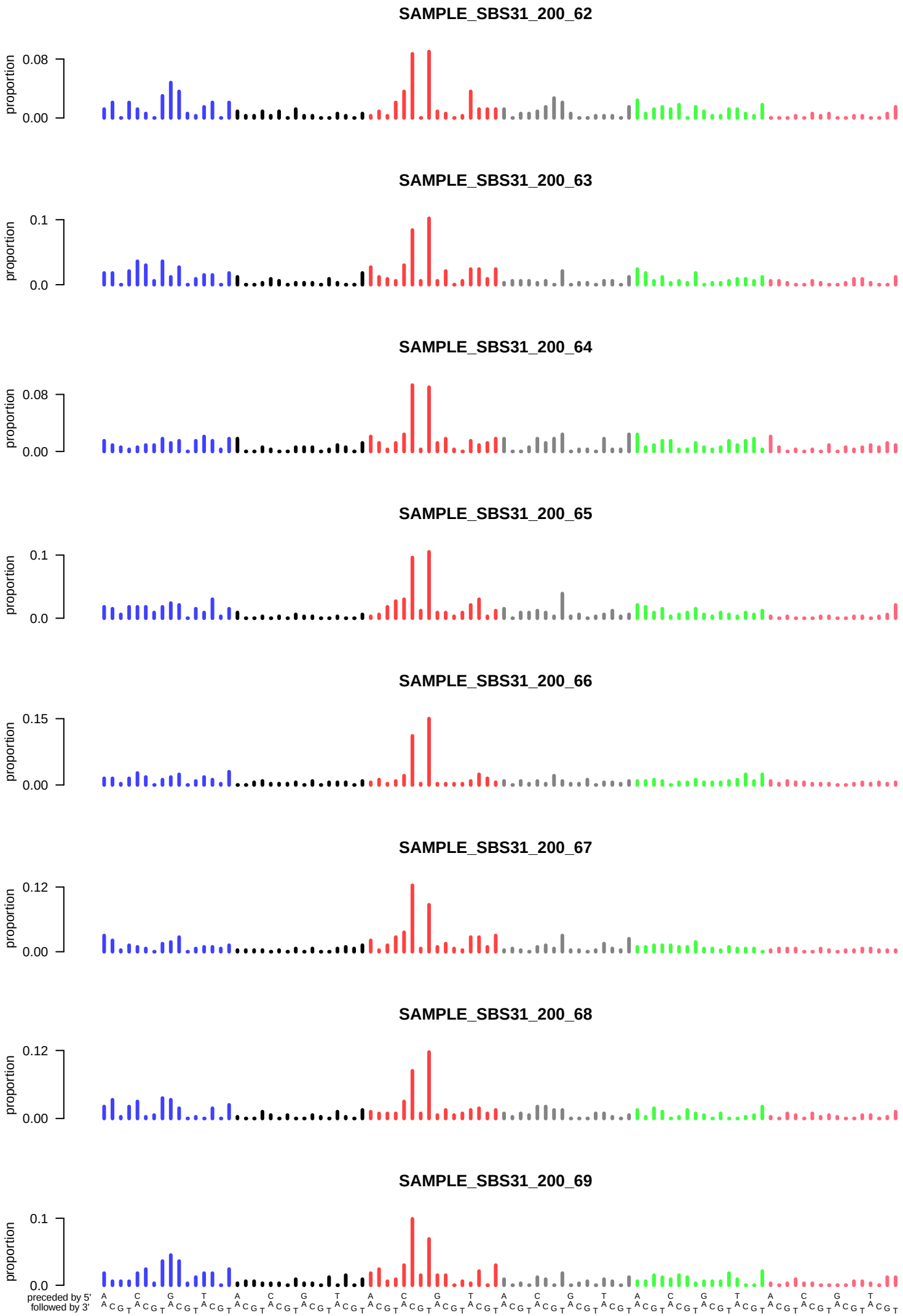
followed by 3'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SAMPLE_SBS31_200_68
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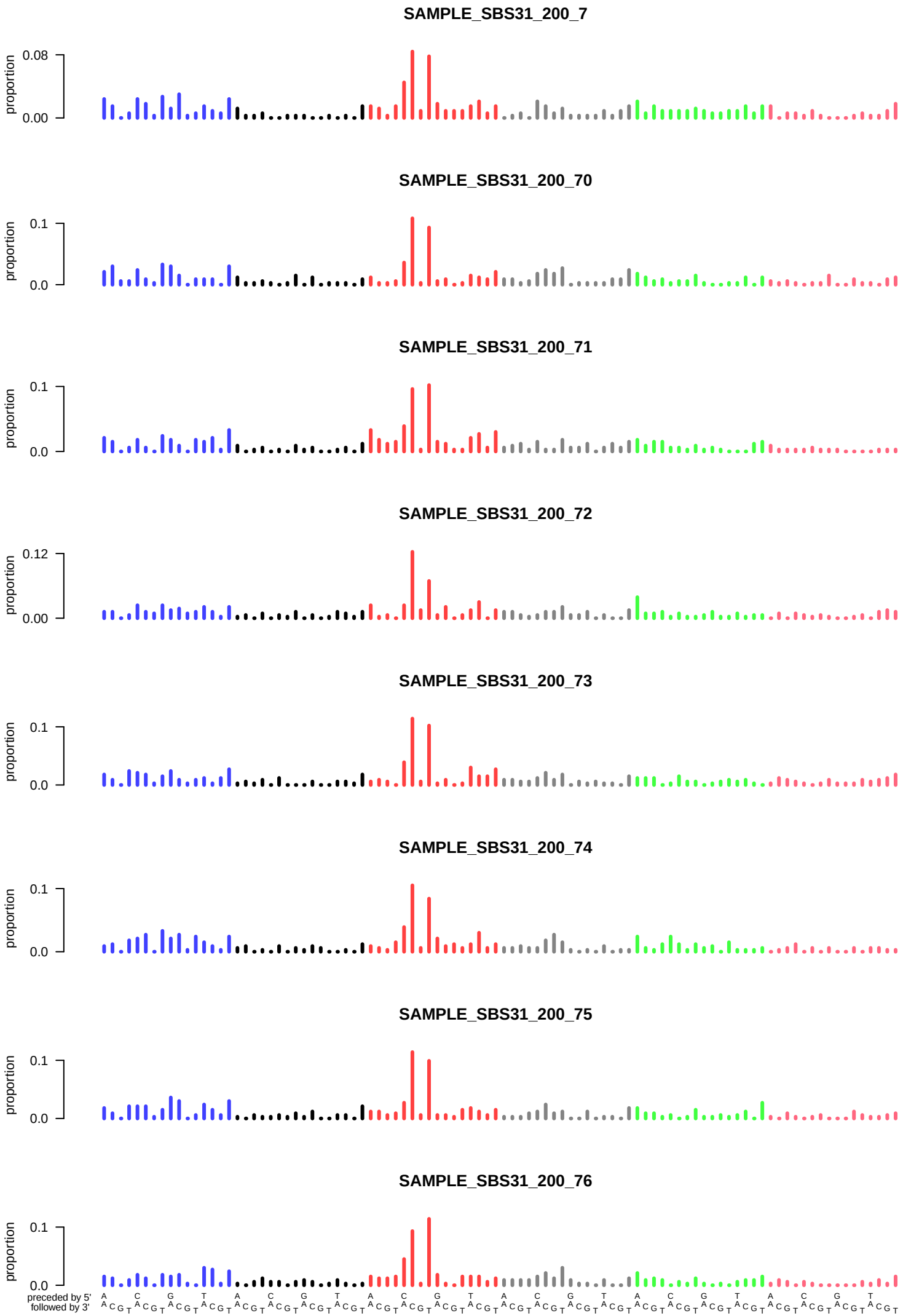
followed by 3'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SAMPLE_SBS31_200_75
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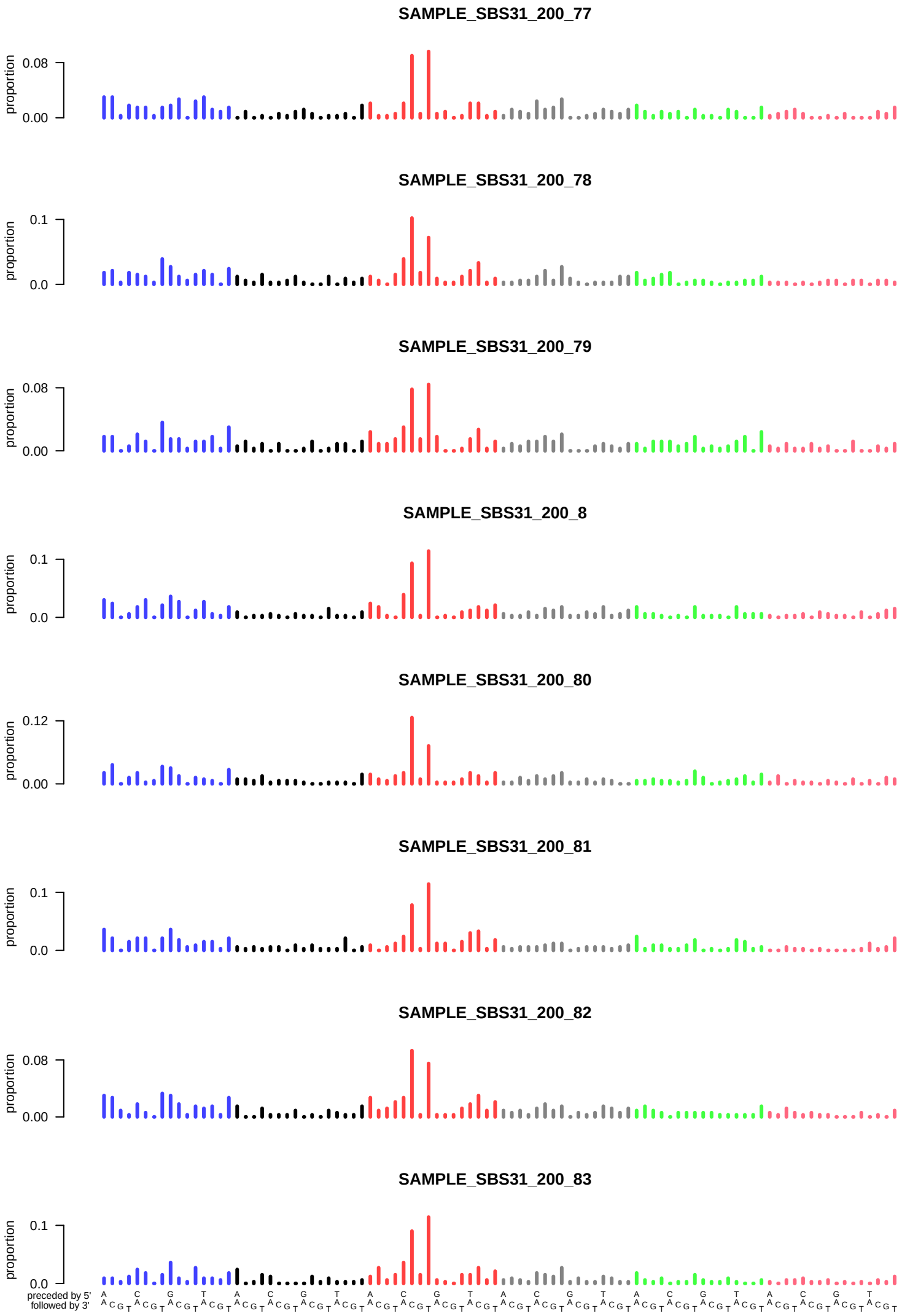
followed by 3'
A C G T A C G T A C G T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SAMPLE_SBS31_200_82
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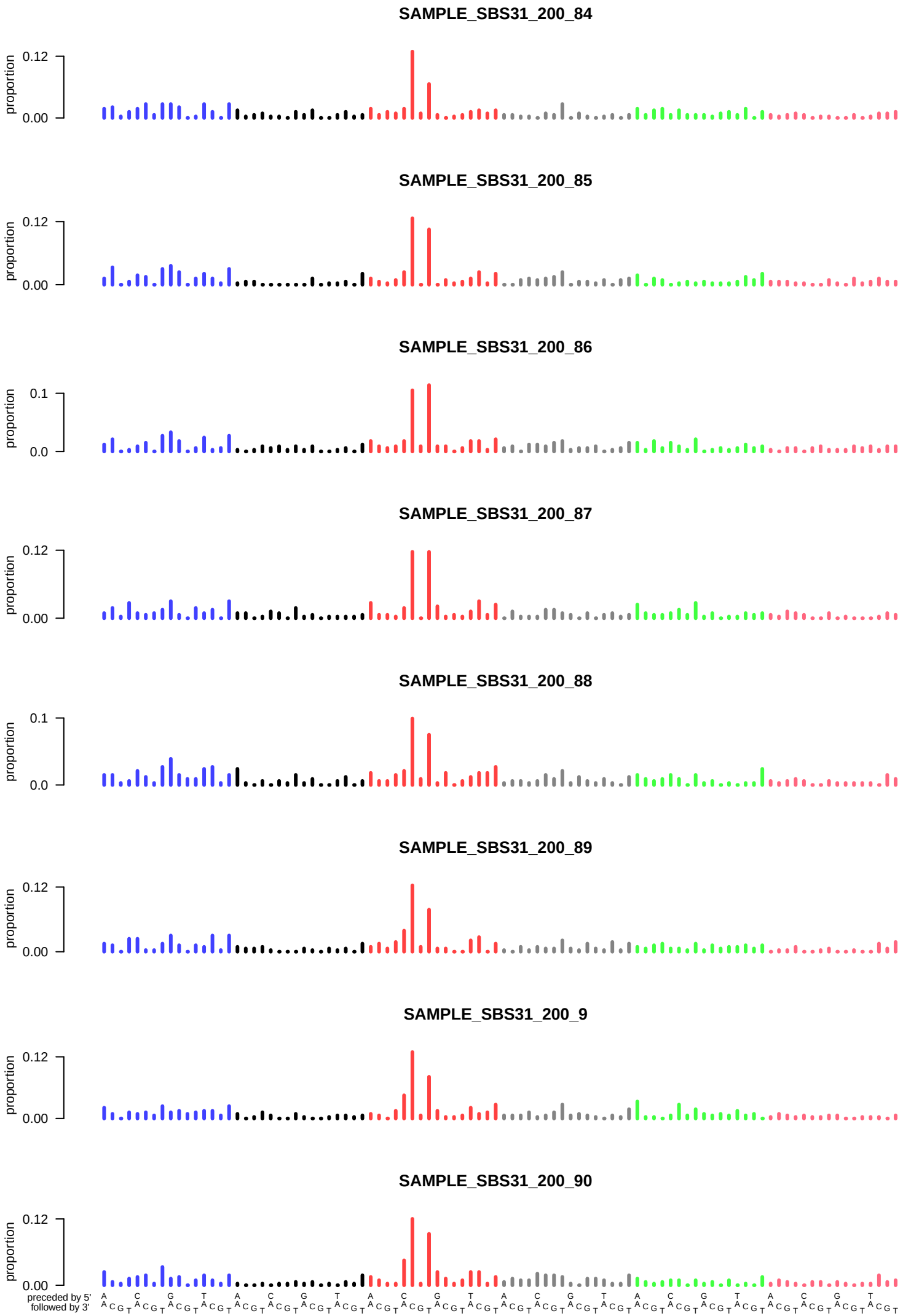
followed by 3'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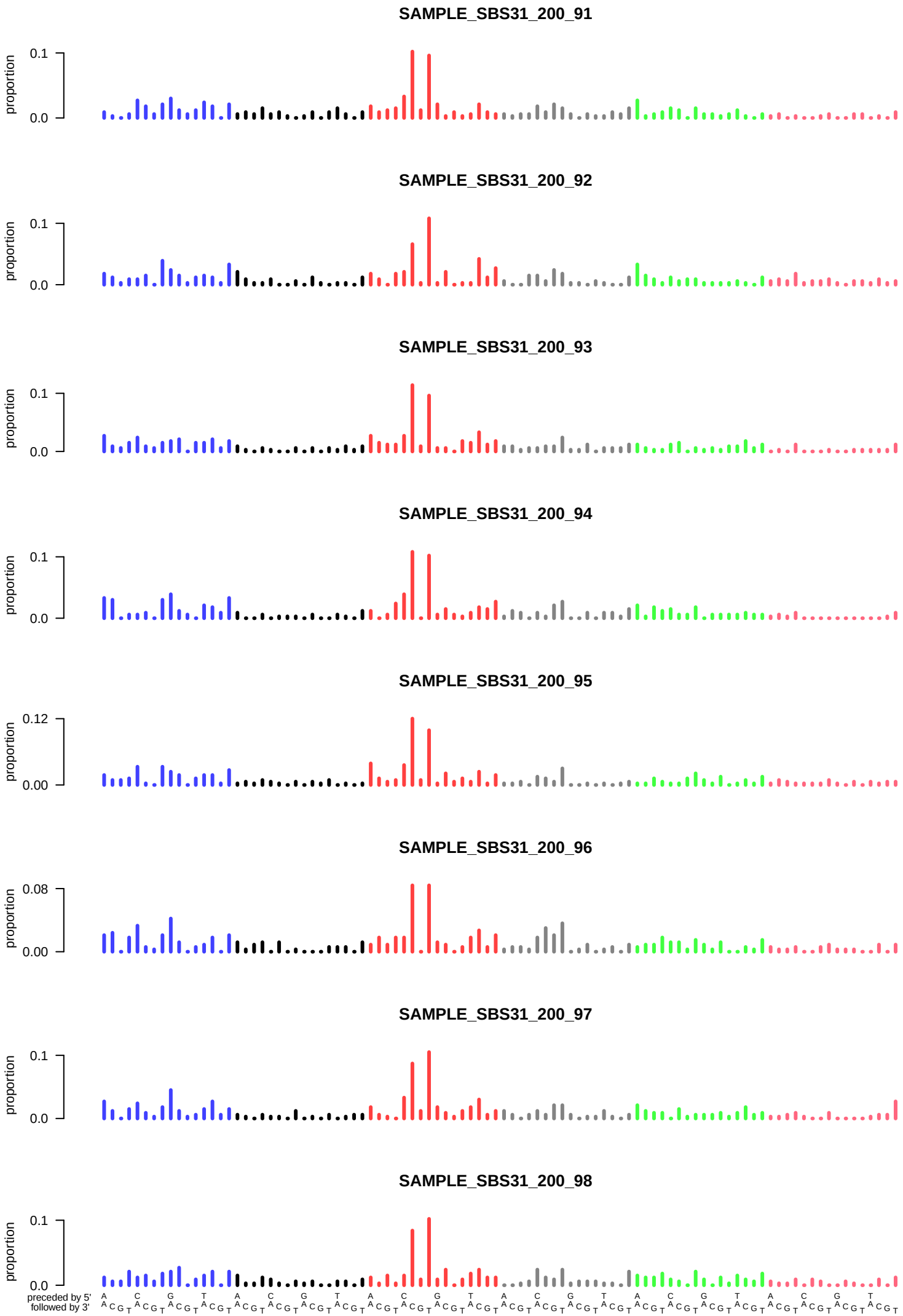
followed by 3'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SAMPLE_SBS31_200_97
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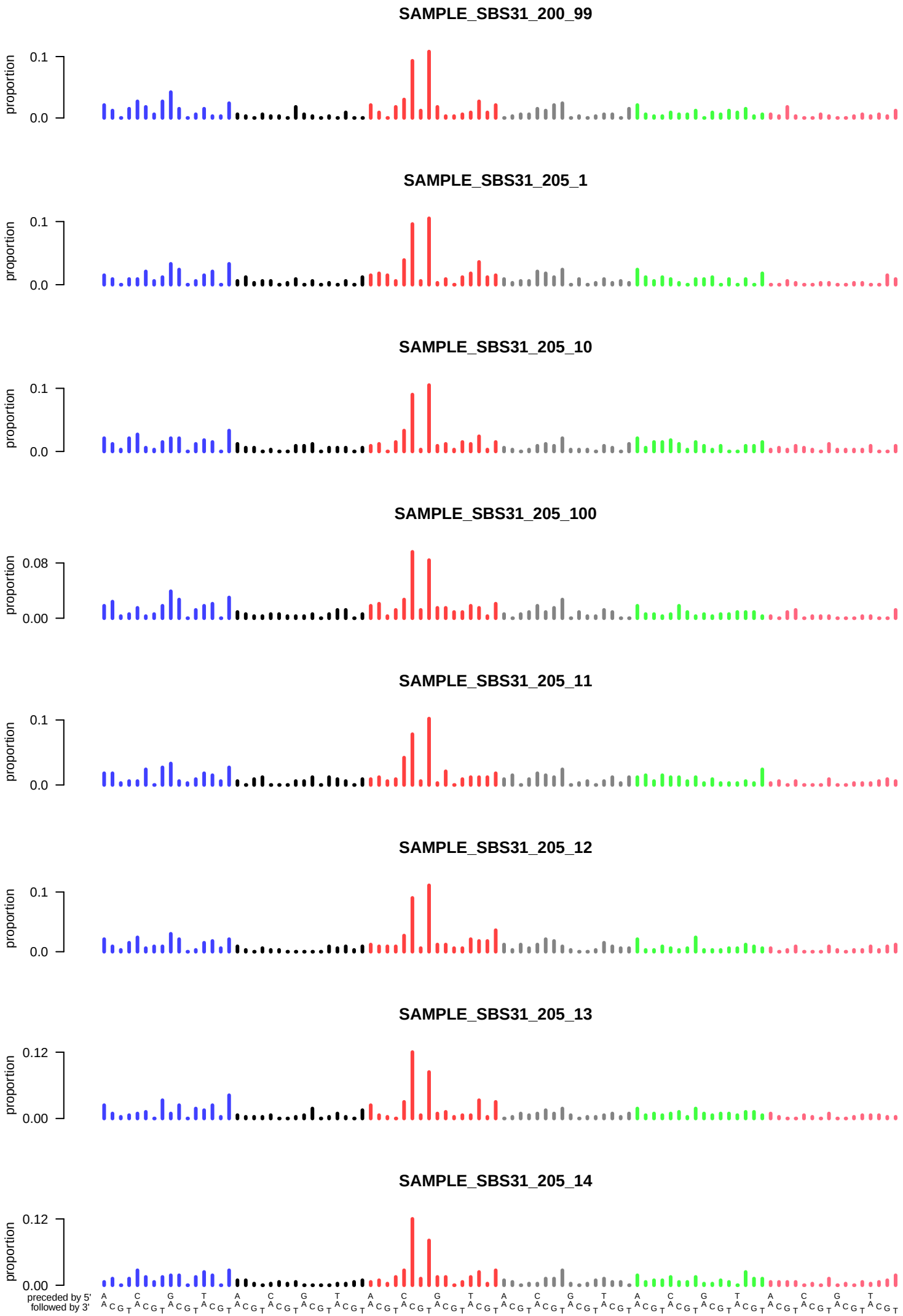
followed by 3'
A C G T A C G T A C G T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SAMPLE_SBS31_205_13
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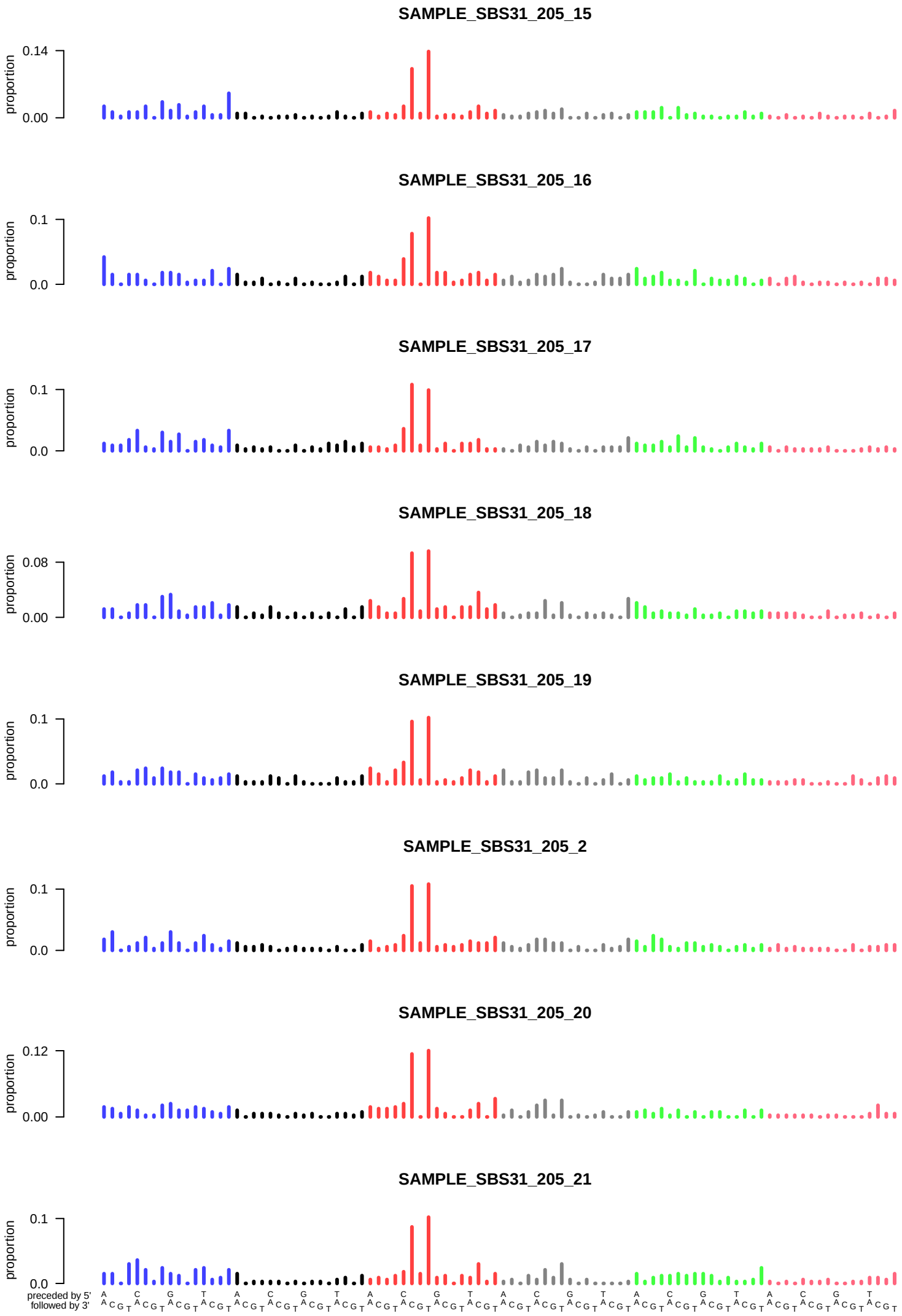
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SAMPLE_SBS31_205_2
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SAMPLE_SBS31_205_20
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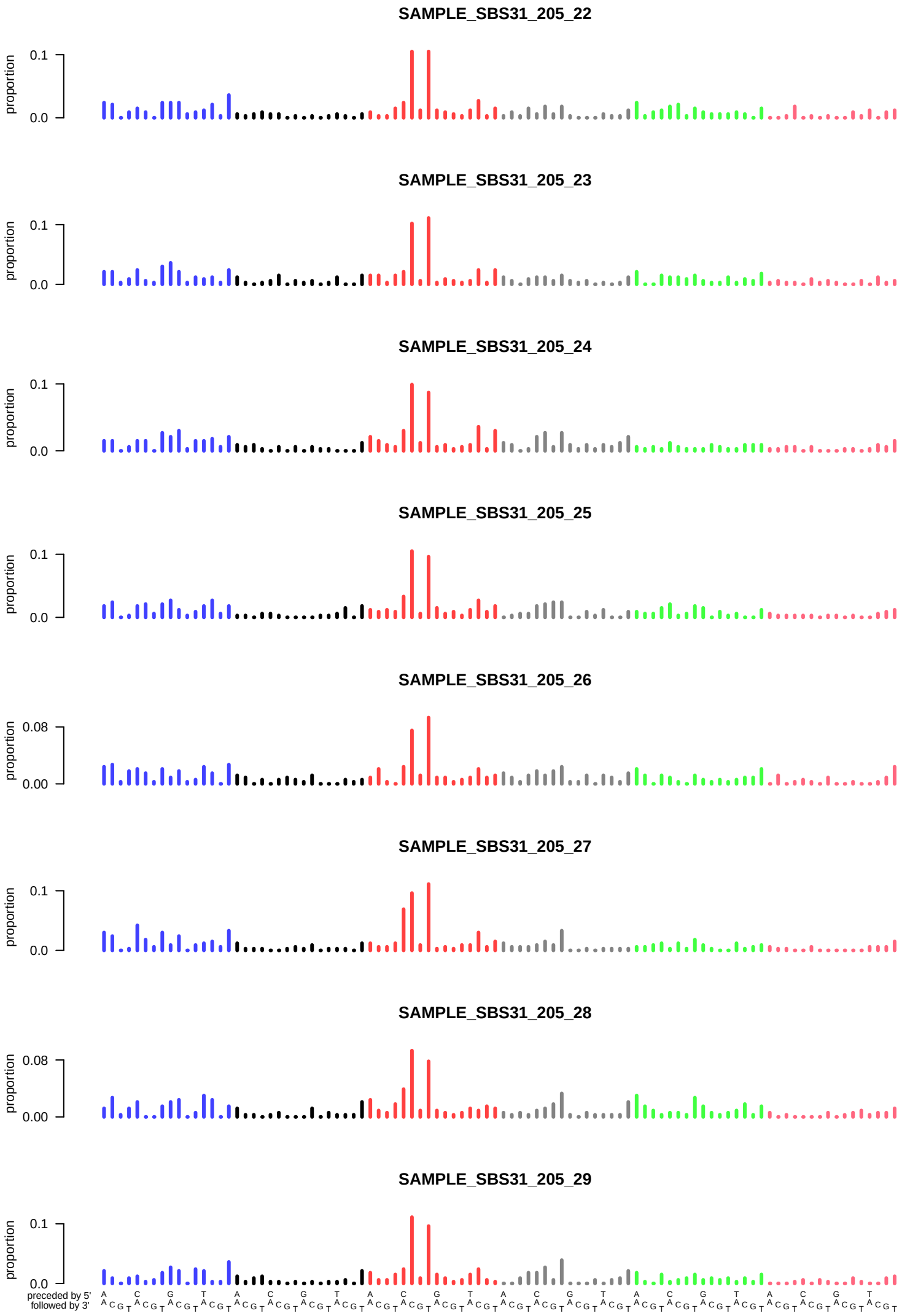
followed by 3'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SAMPLE_SBS31_205_28
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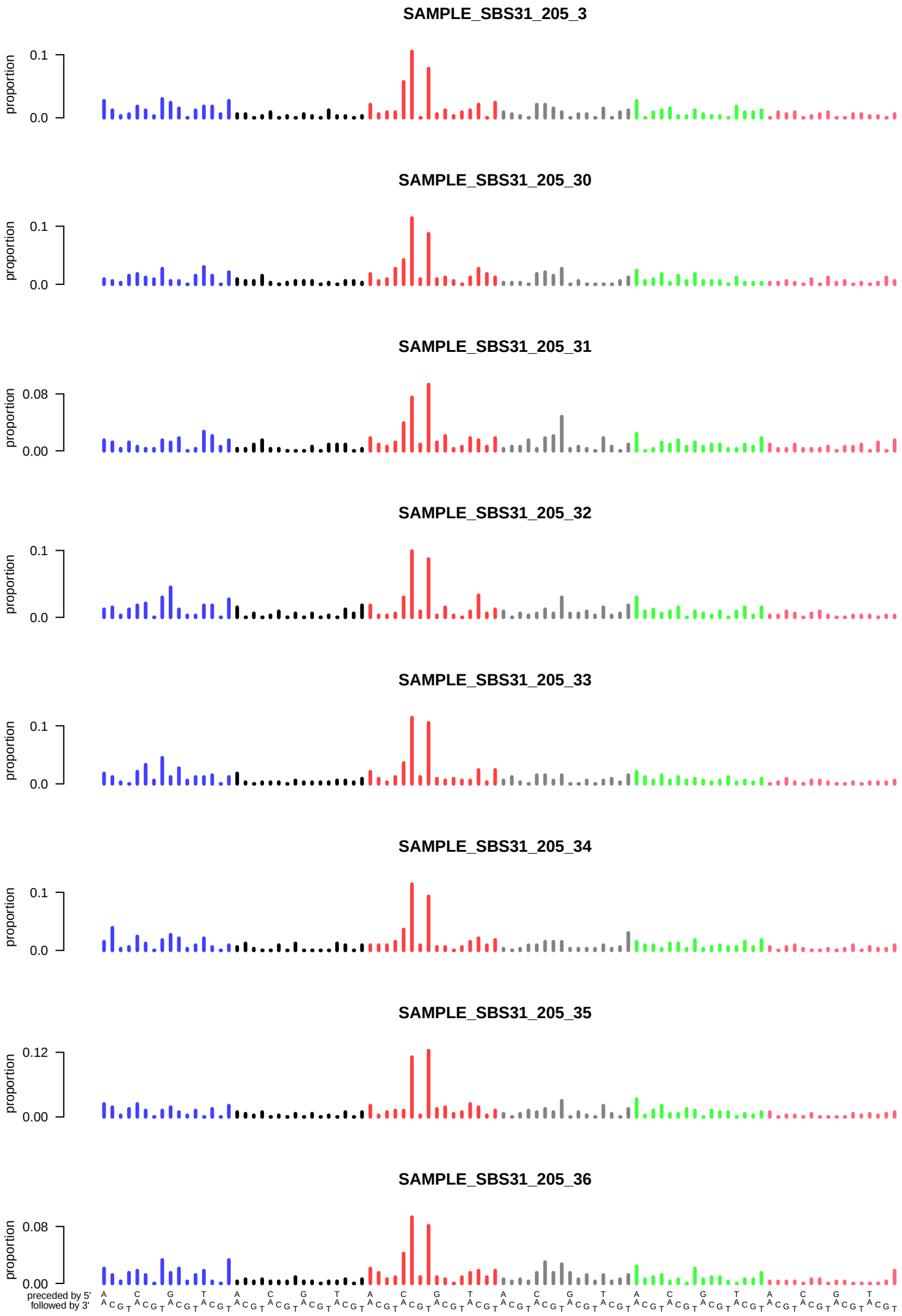
followed by 3'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SAMPLE_SBS31_205_35
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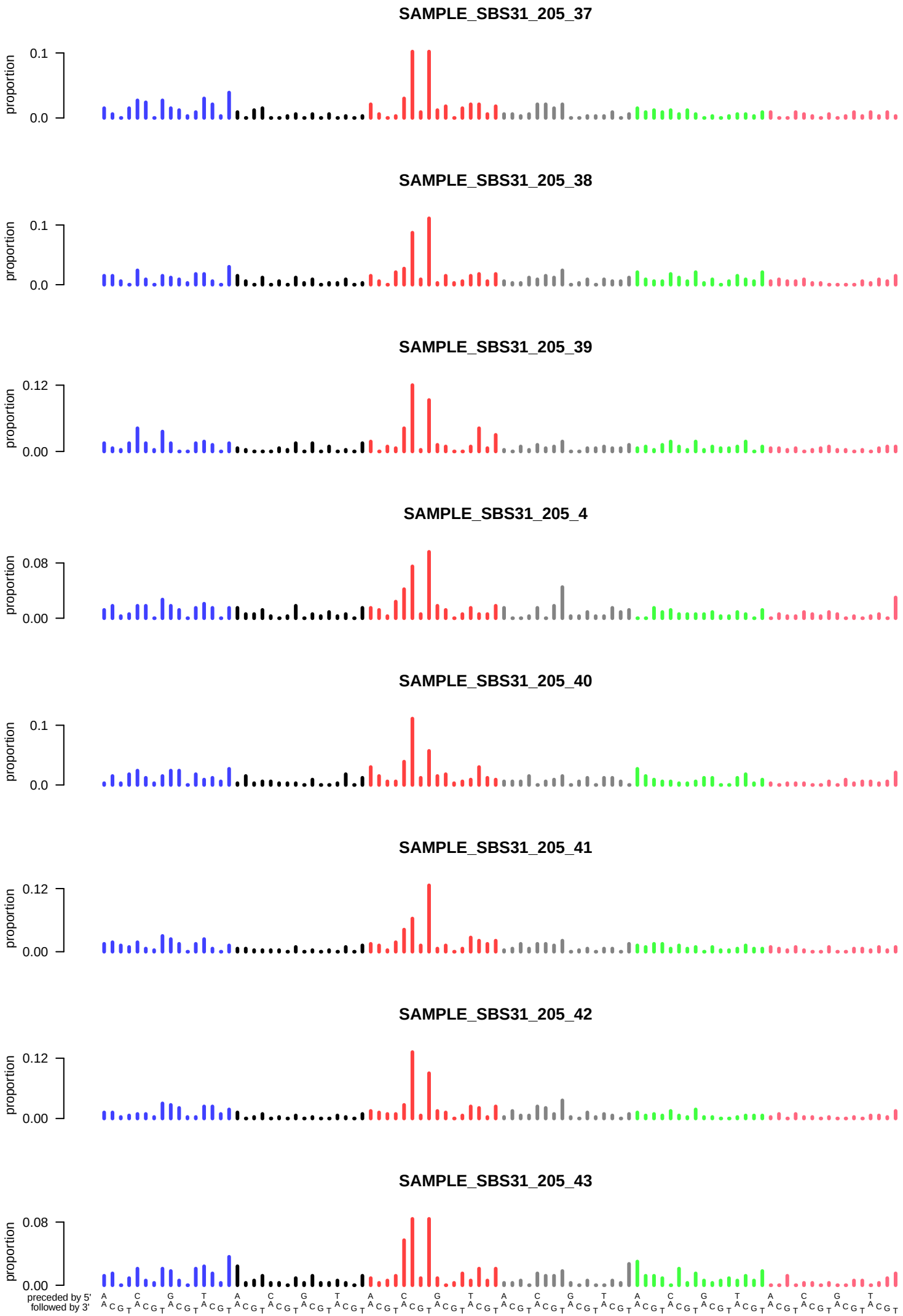
followed by 3'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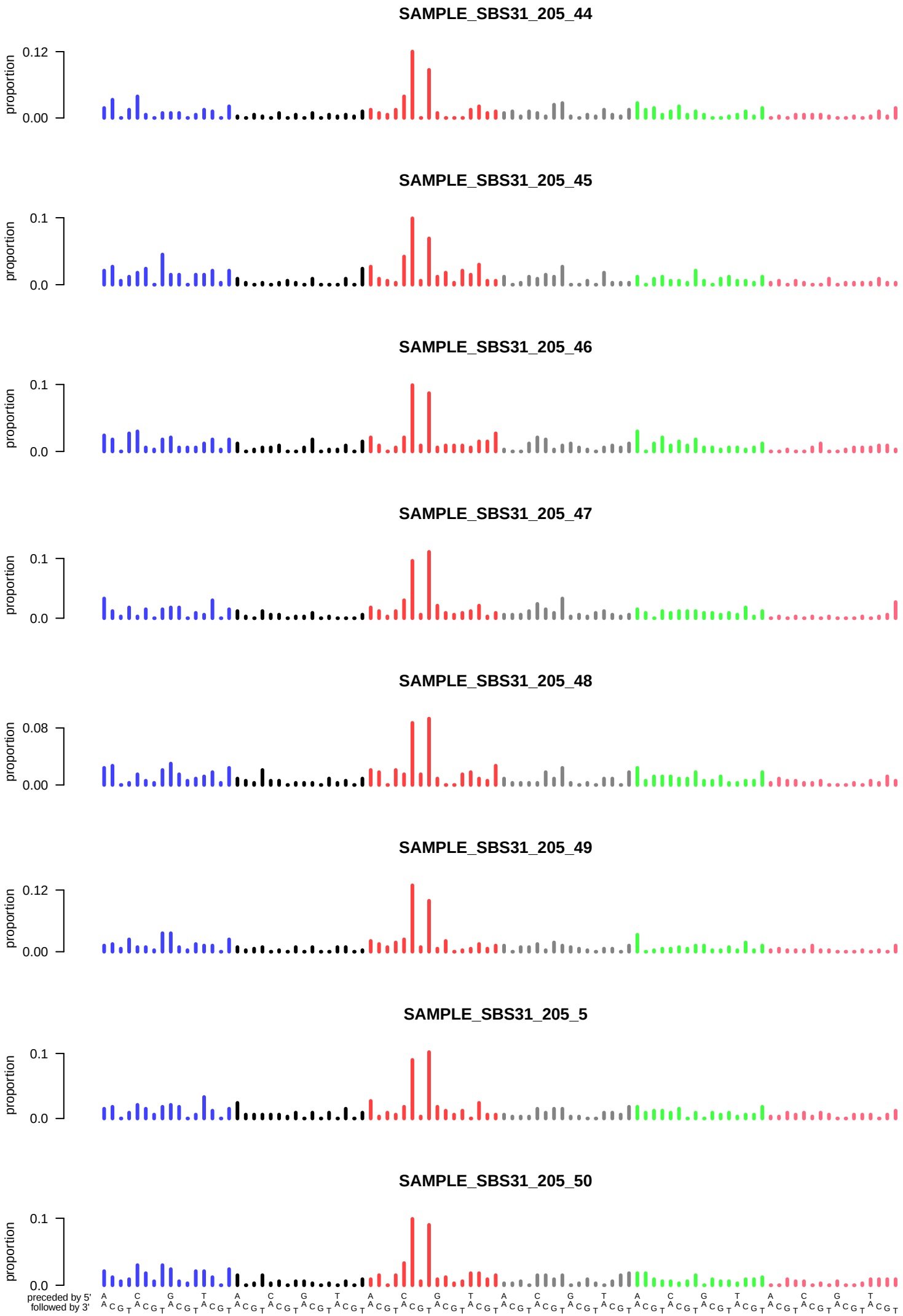
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SAMPLE_SBS31_205_5
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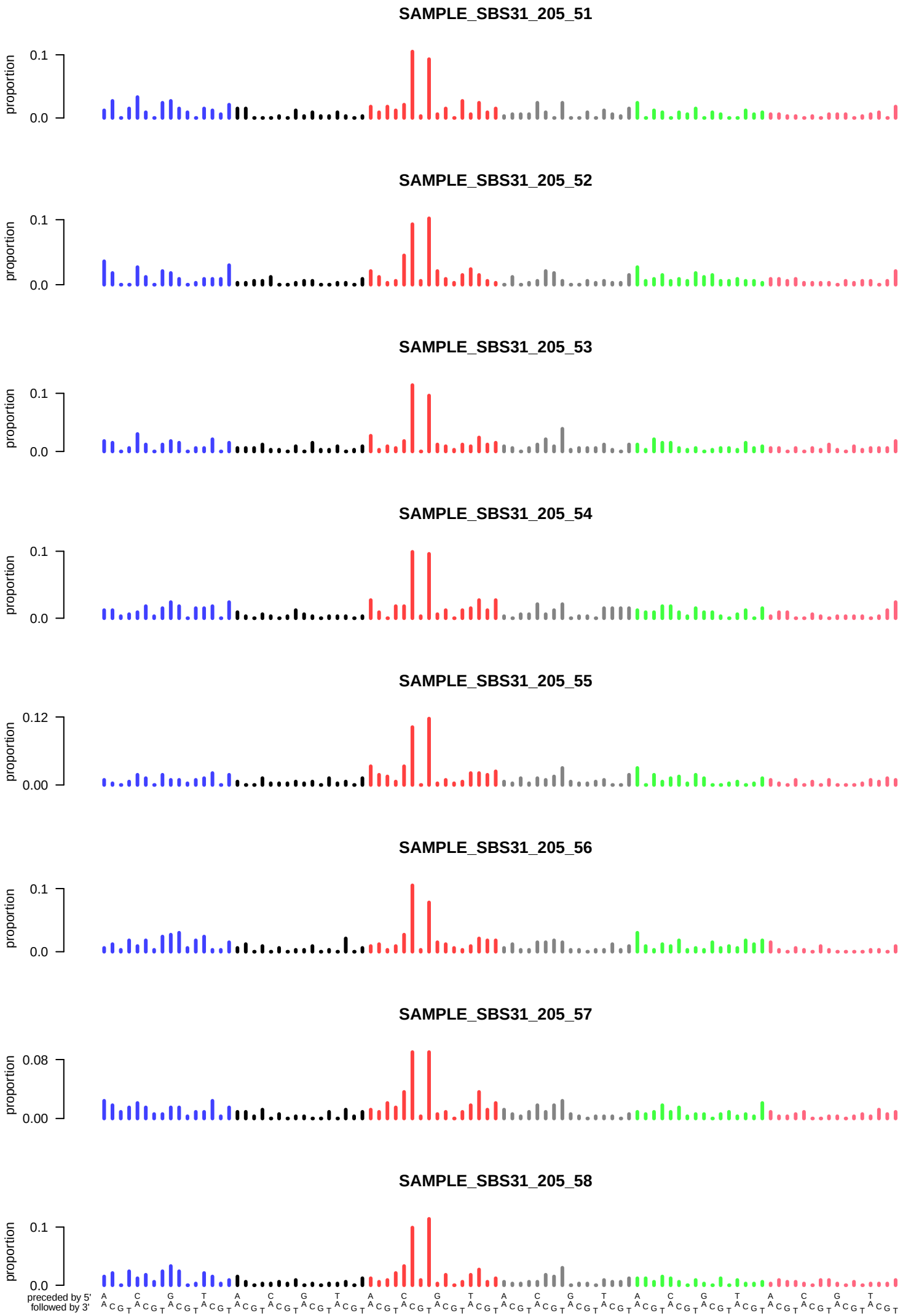
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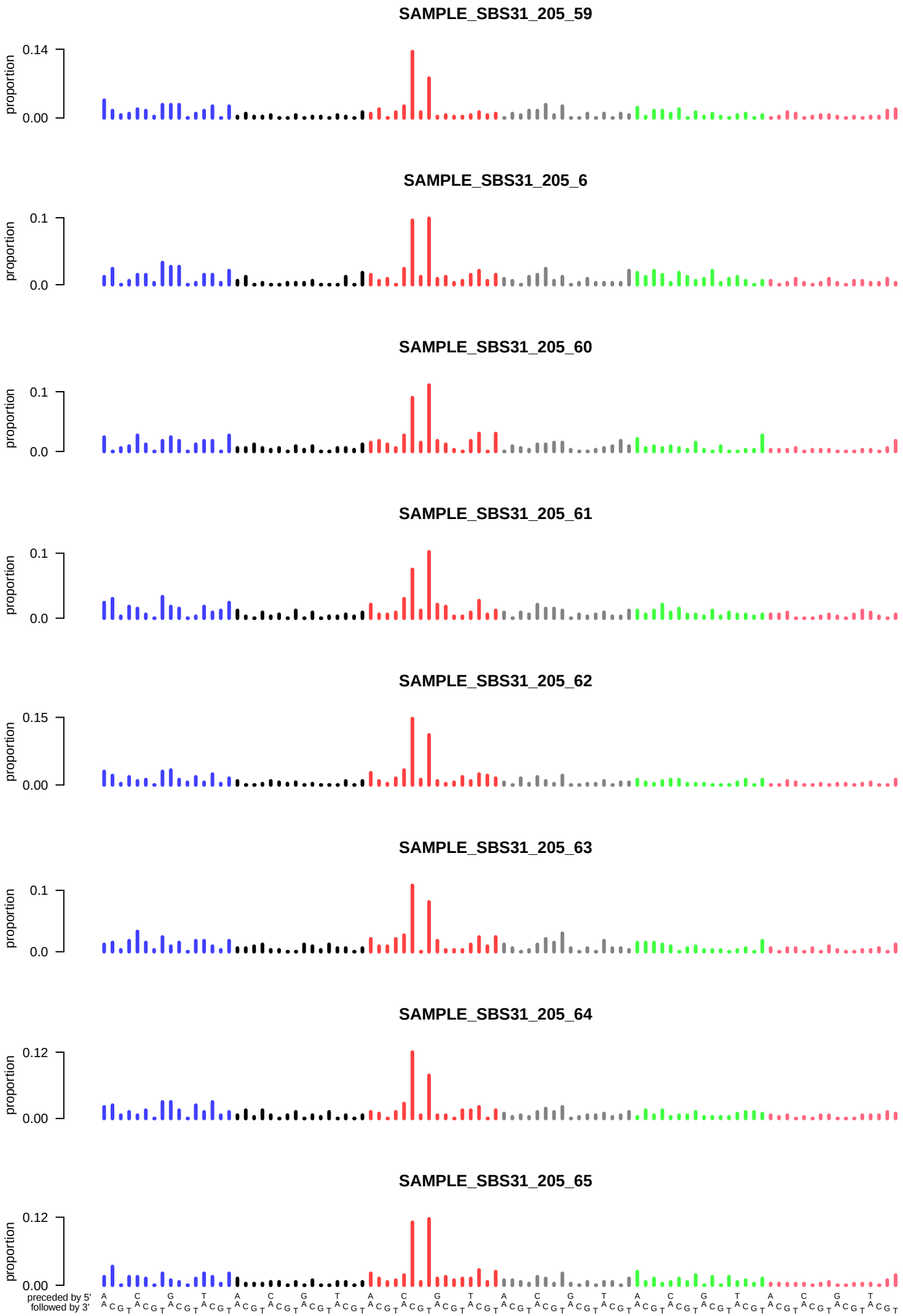
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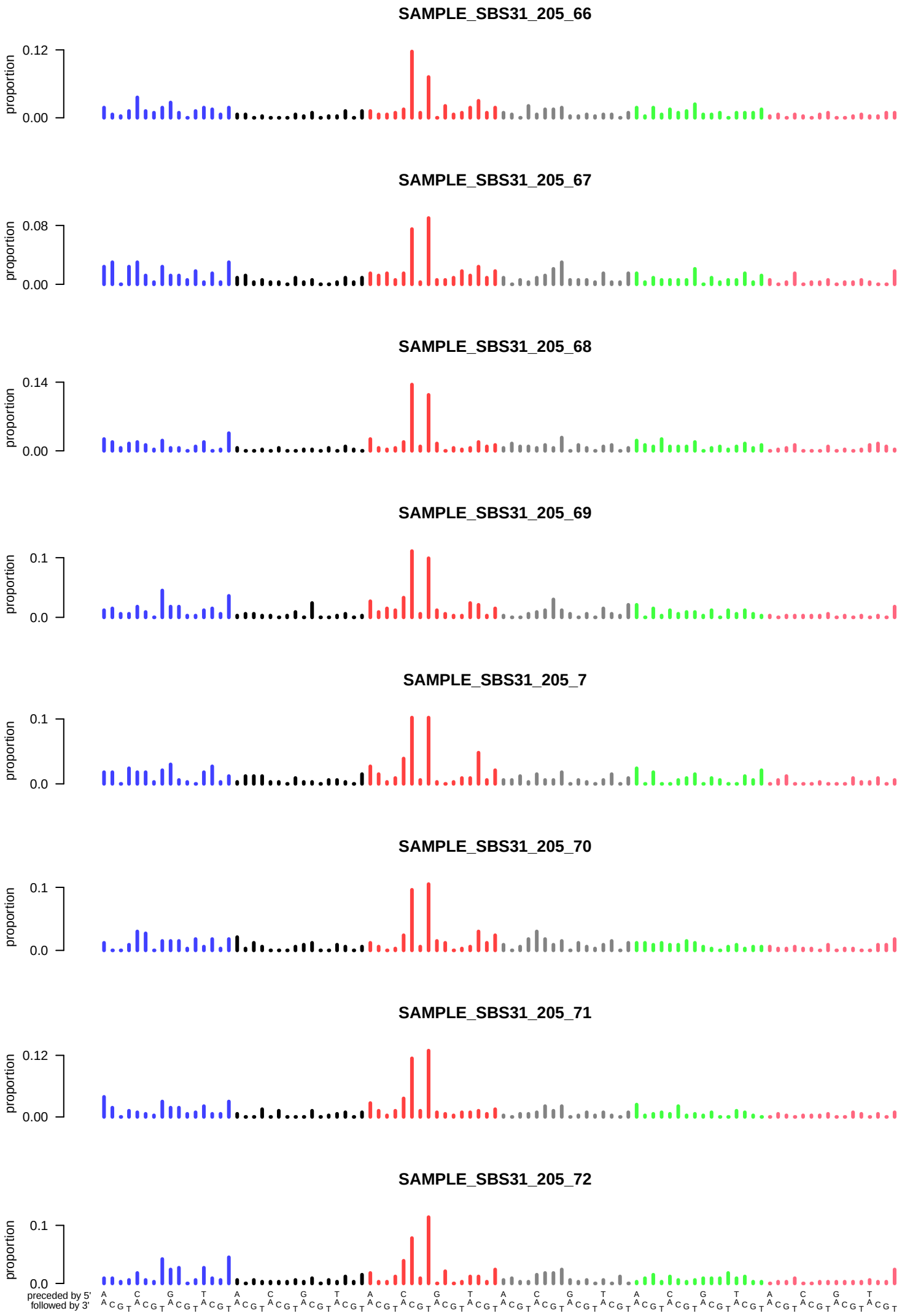
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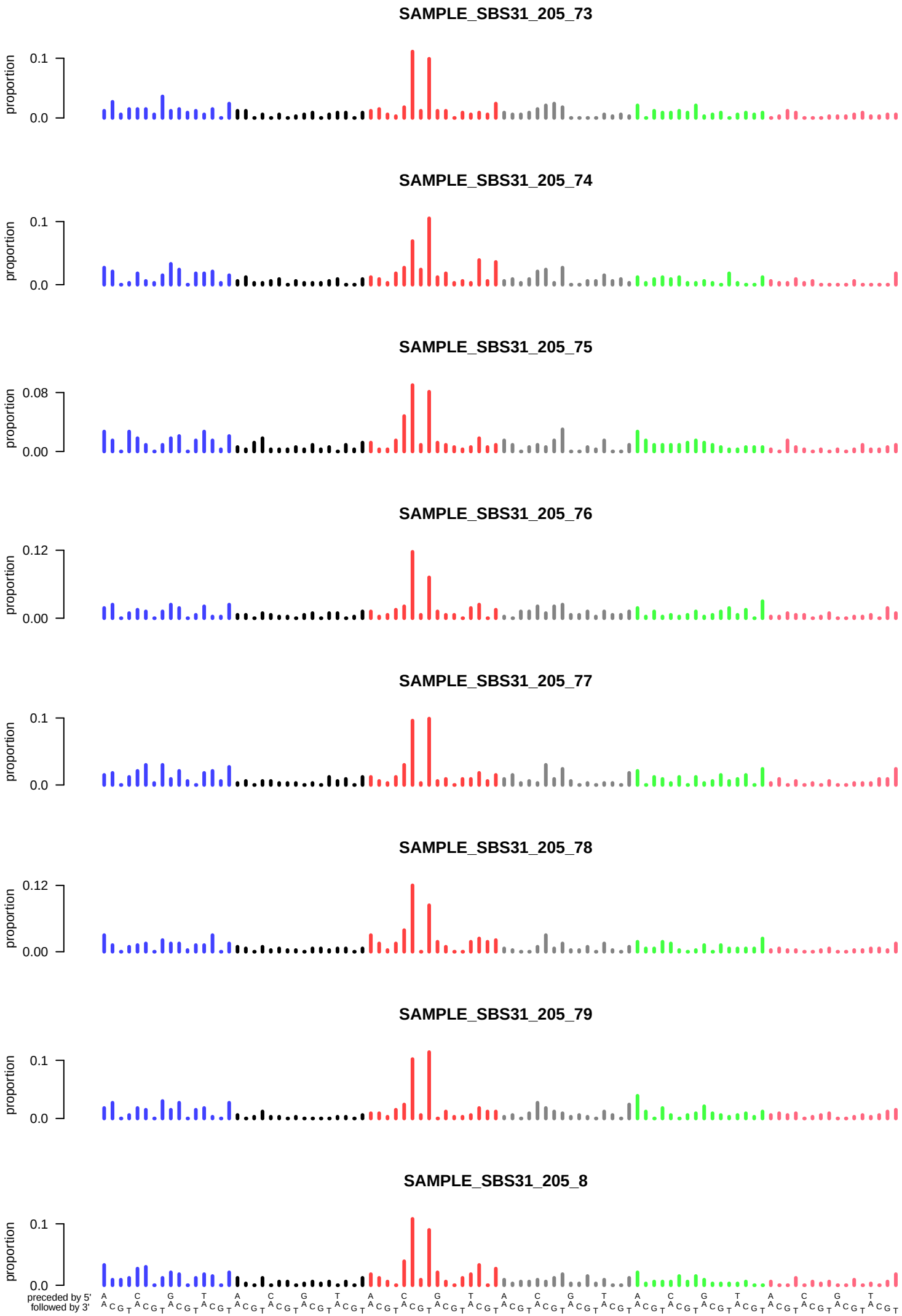
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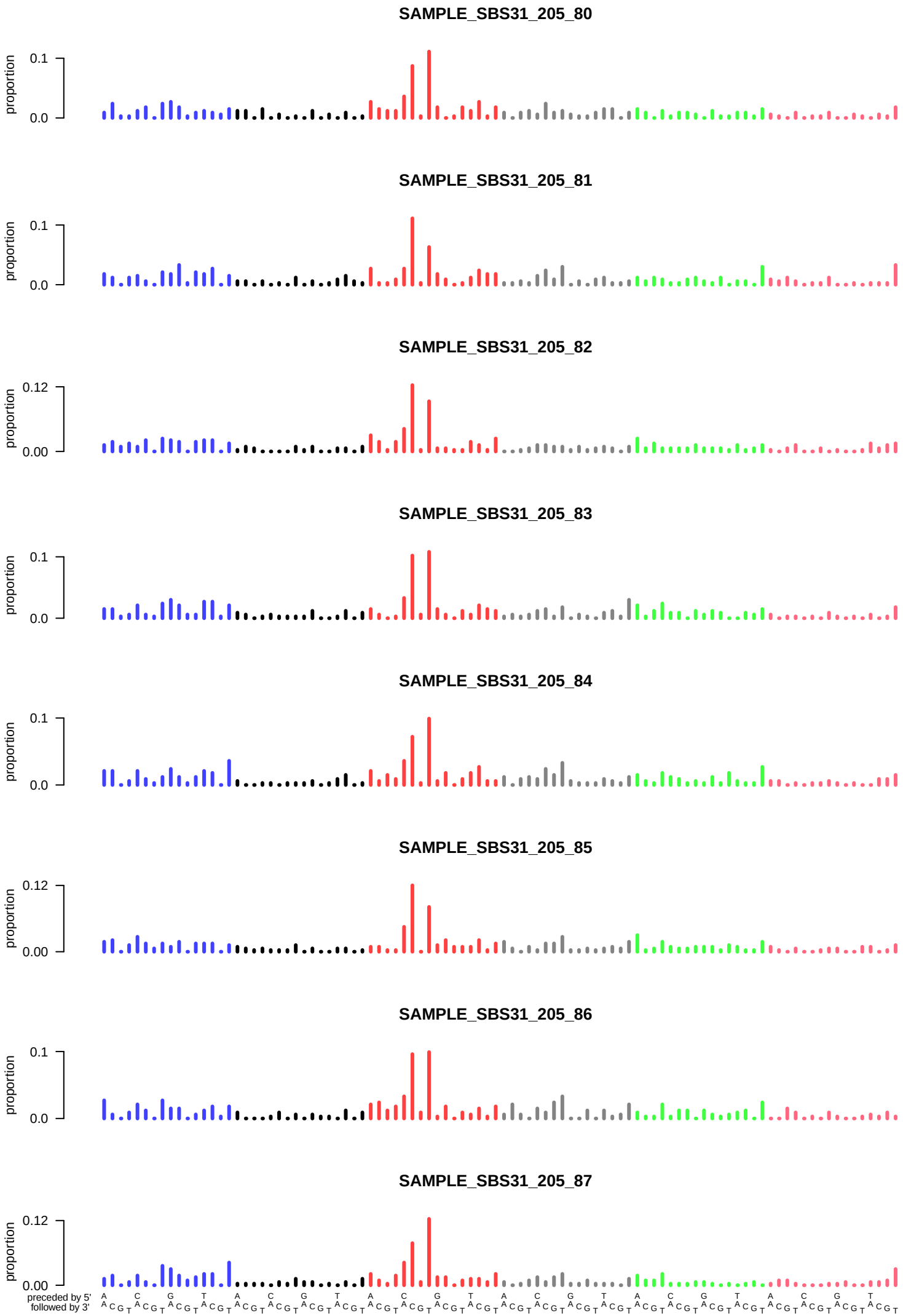
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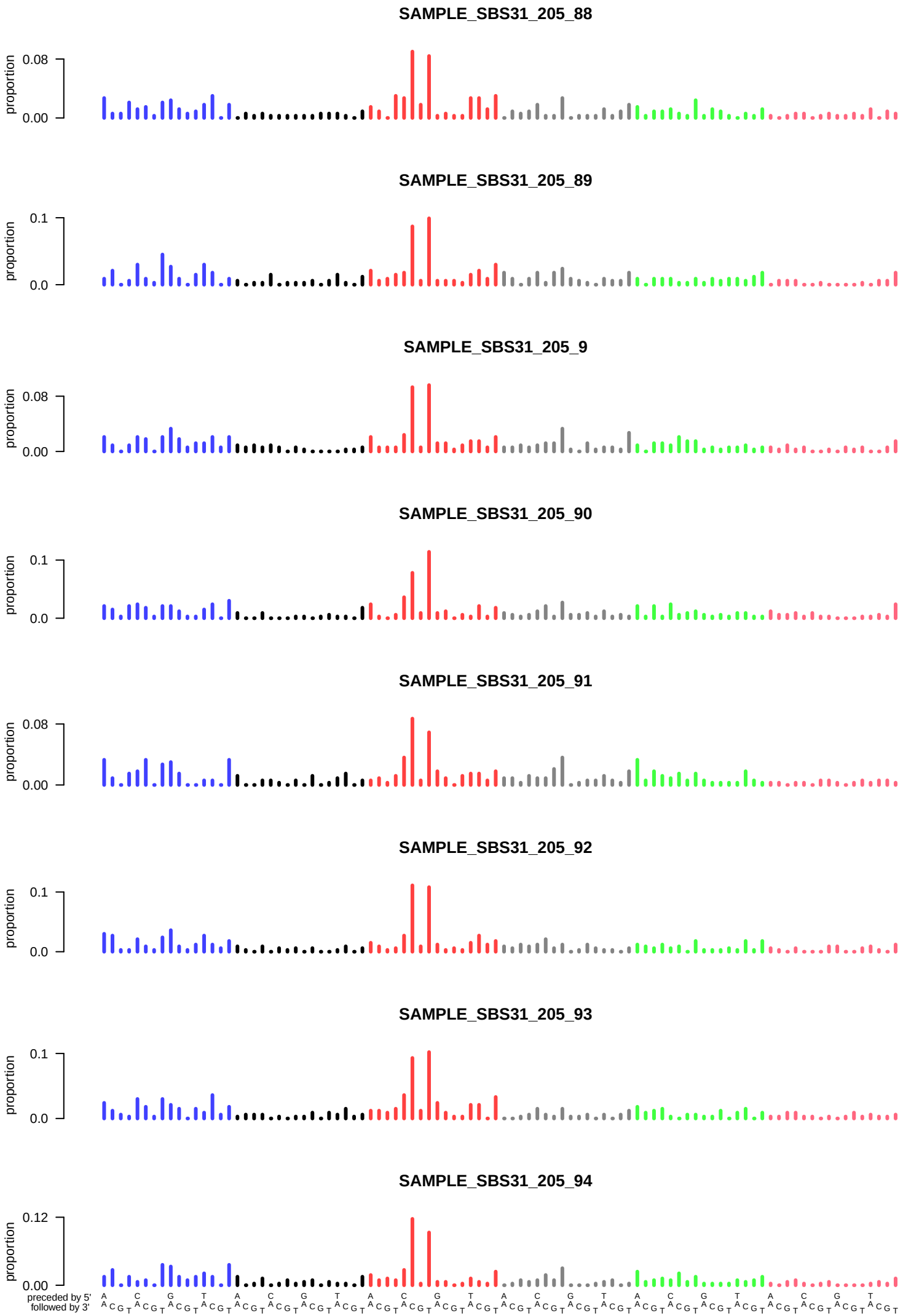
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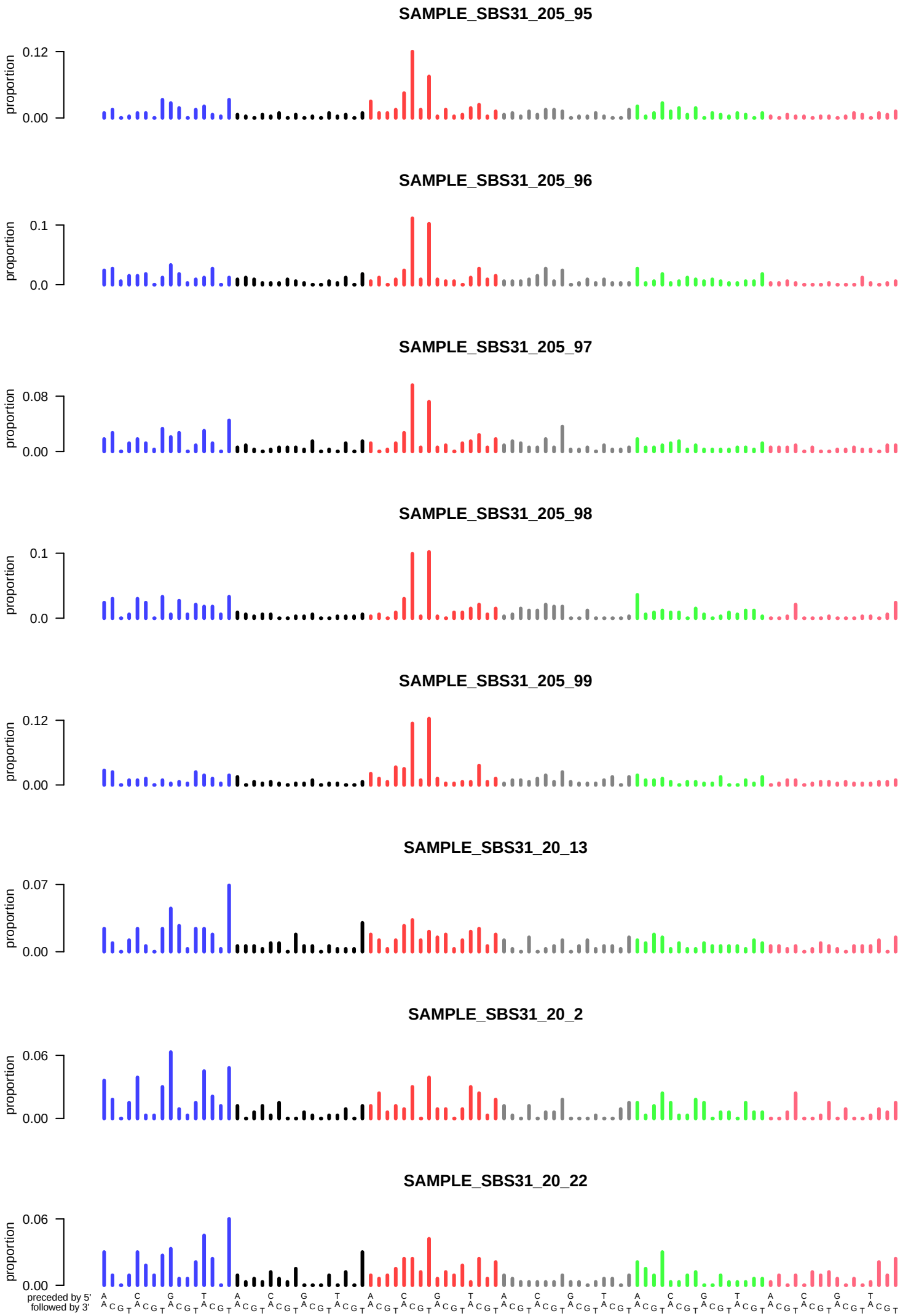
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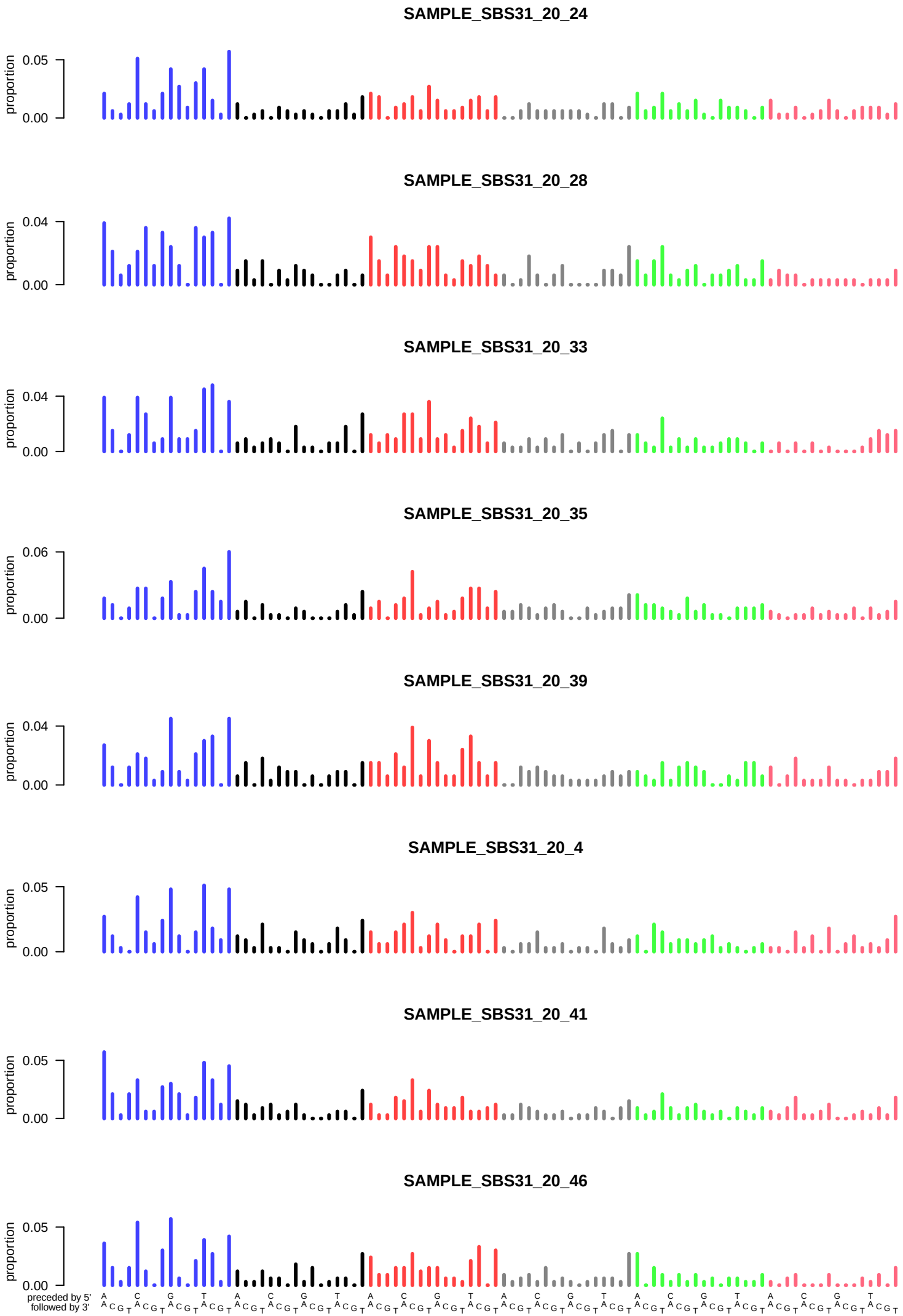
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SAMPLE_SBS31_20_39
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SAMPLE_SBS31_20_4
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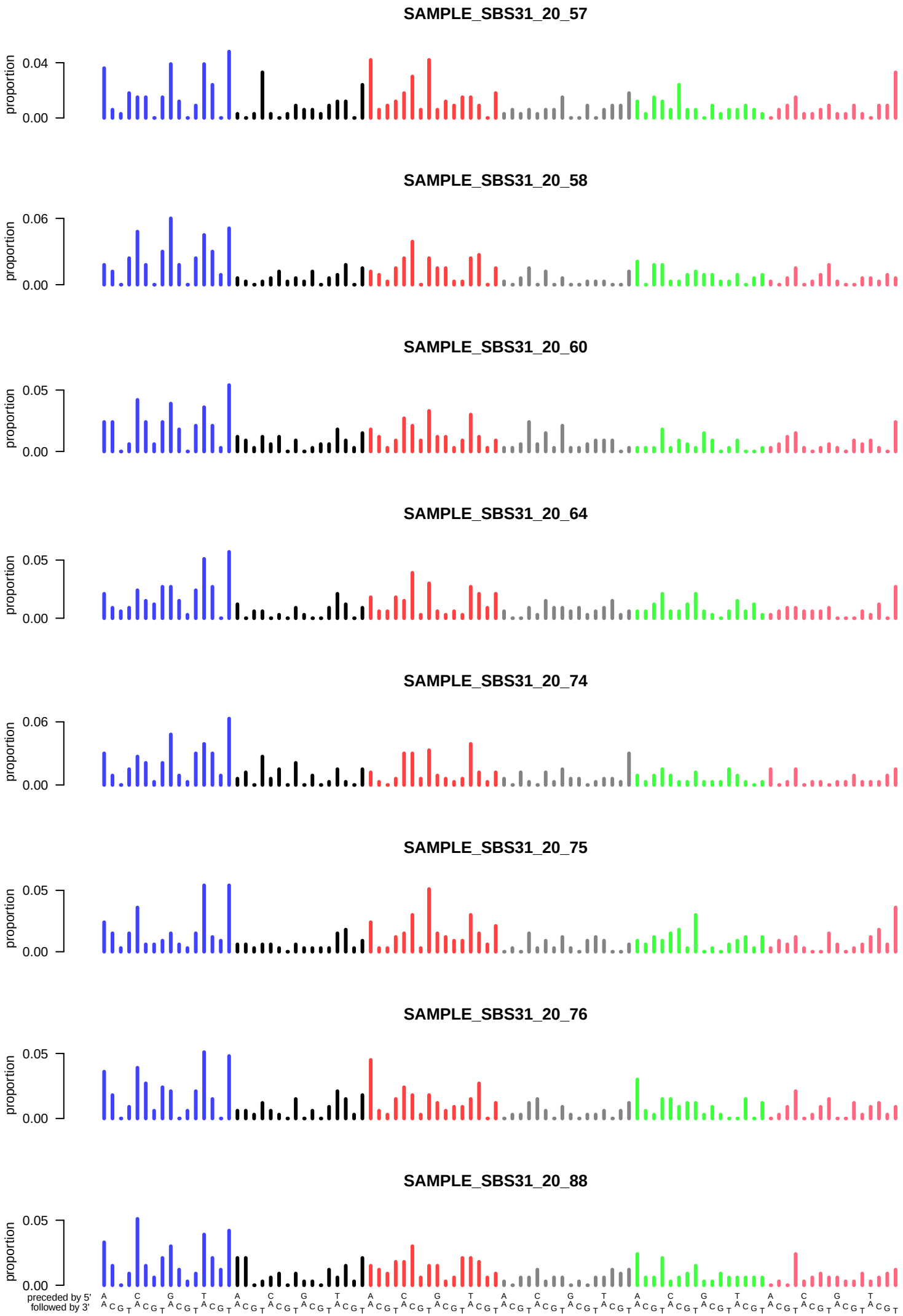
0.00
SAMPLE_SBS31_20_41
proportion
0.05
0.00
SAMPLE_SBS31_20_46
proportion
0.05
0.00
preceded by 5'
followed by 3'
A C G T A C G T A C G T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SAMPLE_SBS31_20_76
proportion
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followed by 3'
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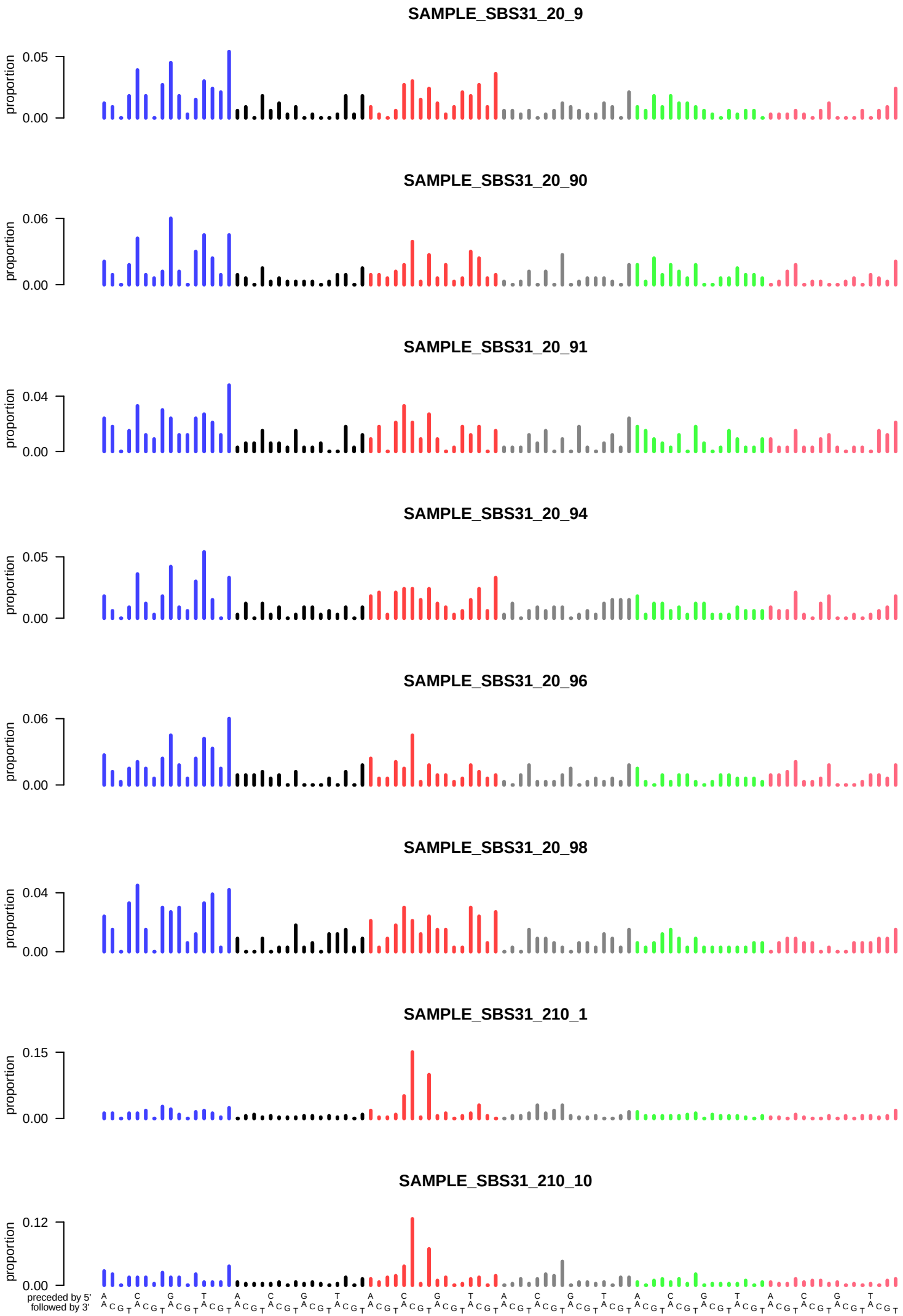
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SAMPLE_SBS31_20_96
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proportion
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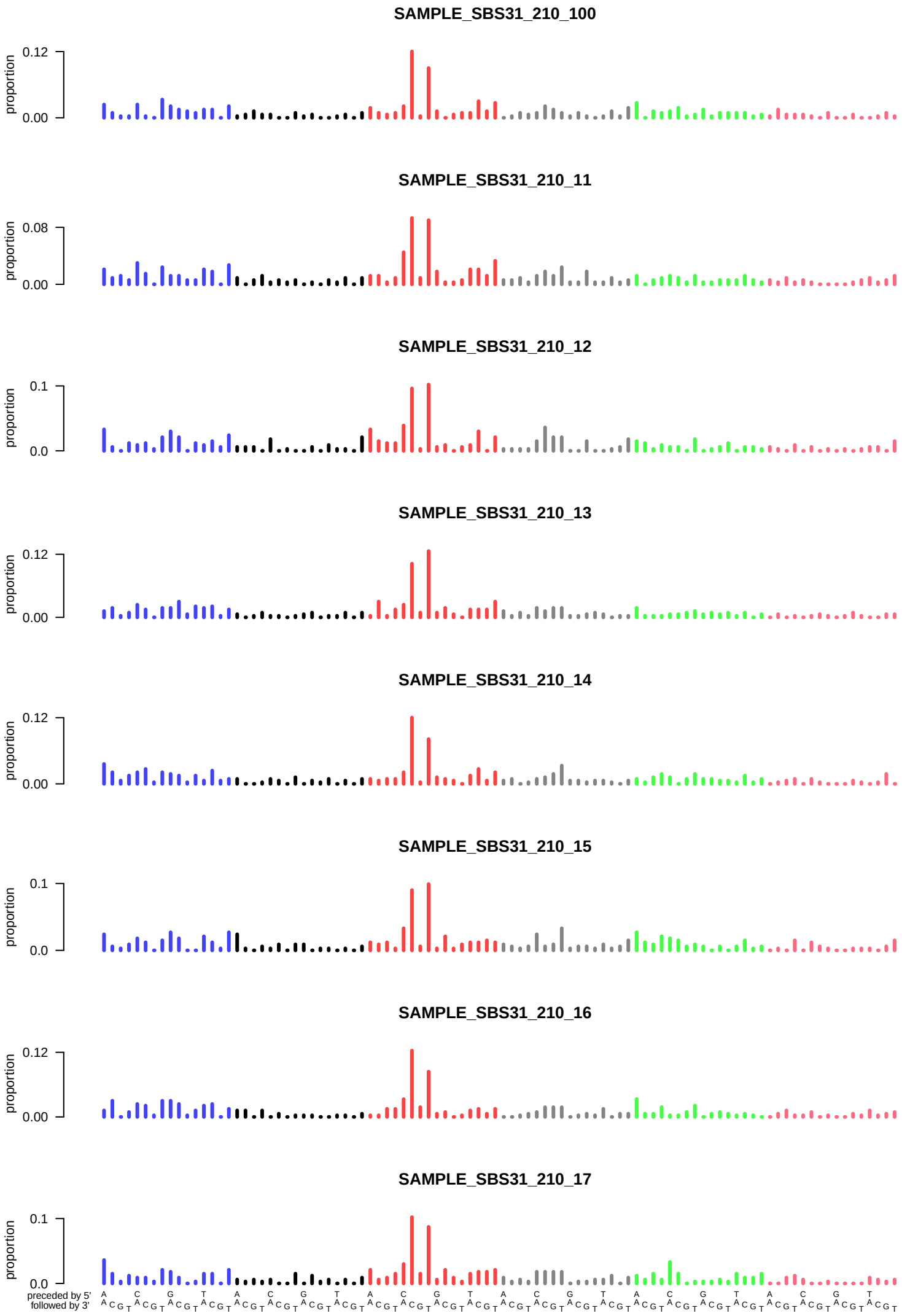
followed by 3'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SAMPLE_SBS31_210_14
proportion
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SAMPLE_SBS31_210_15
proportion
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SAMPLE_SBS31_210_16
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SAMPLE_SBS31_210_17
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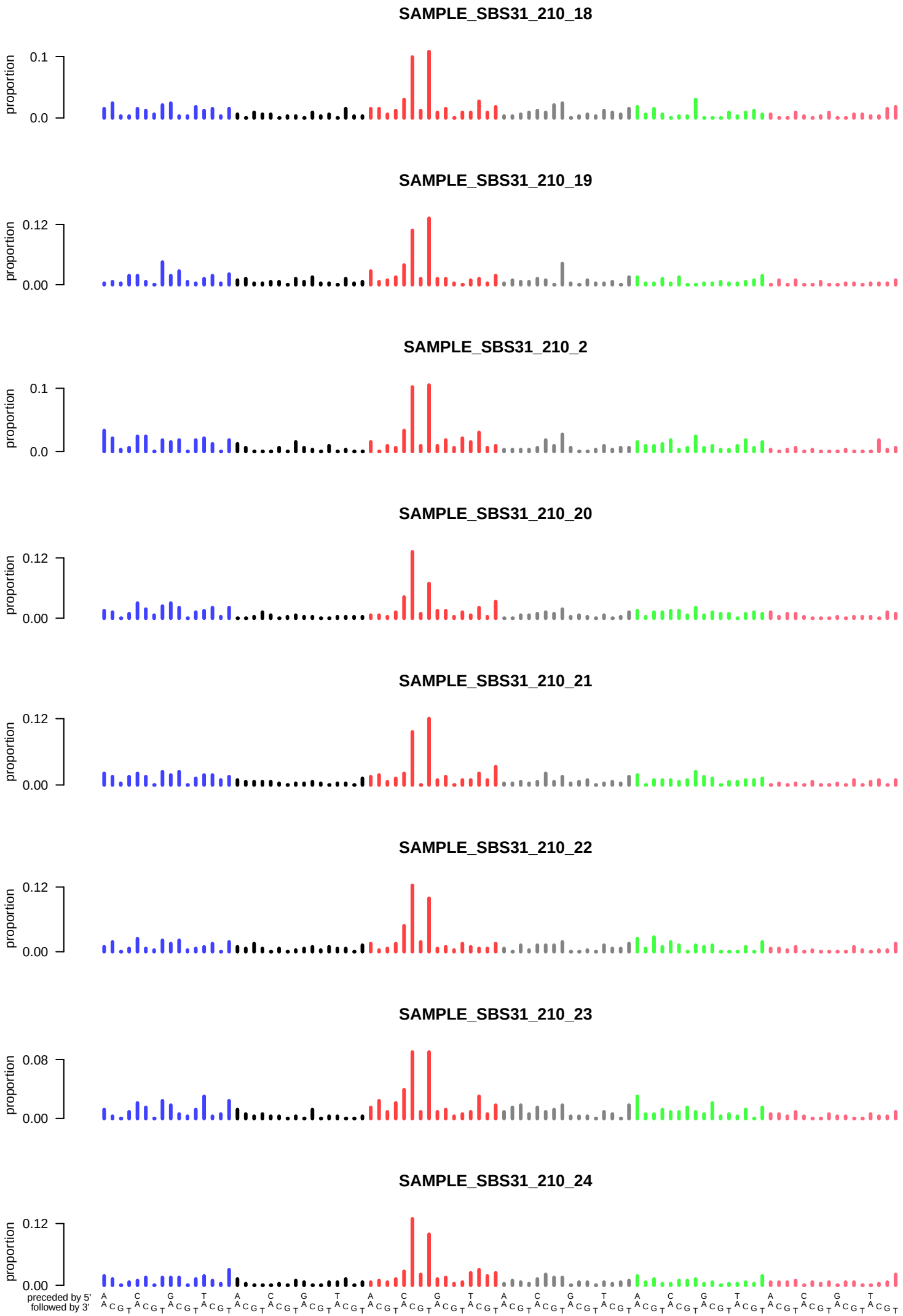
followed by 3'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SAMPLE_SBS31_210_20
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SAMPLE_SBS31_210_21
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SAMPLE_SBS31_210_22
proportion
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SAMPLE_SBS31_210_23
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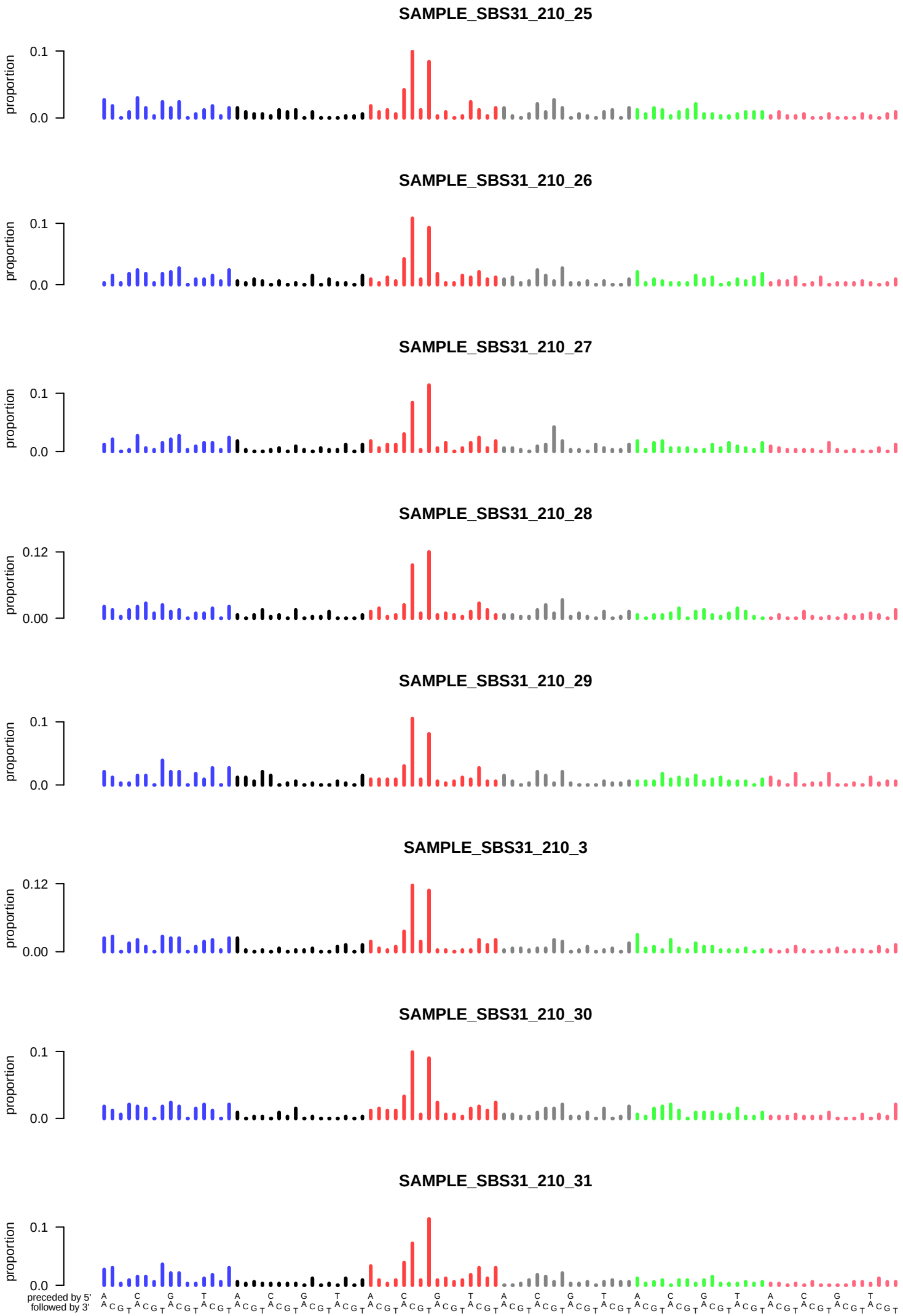
followed by 3'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SAMPLE_SBS31_210_3
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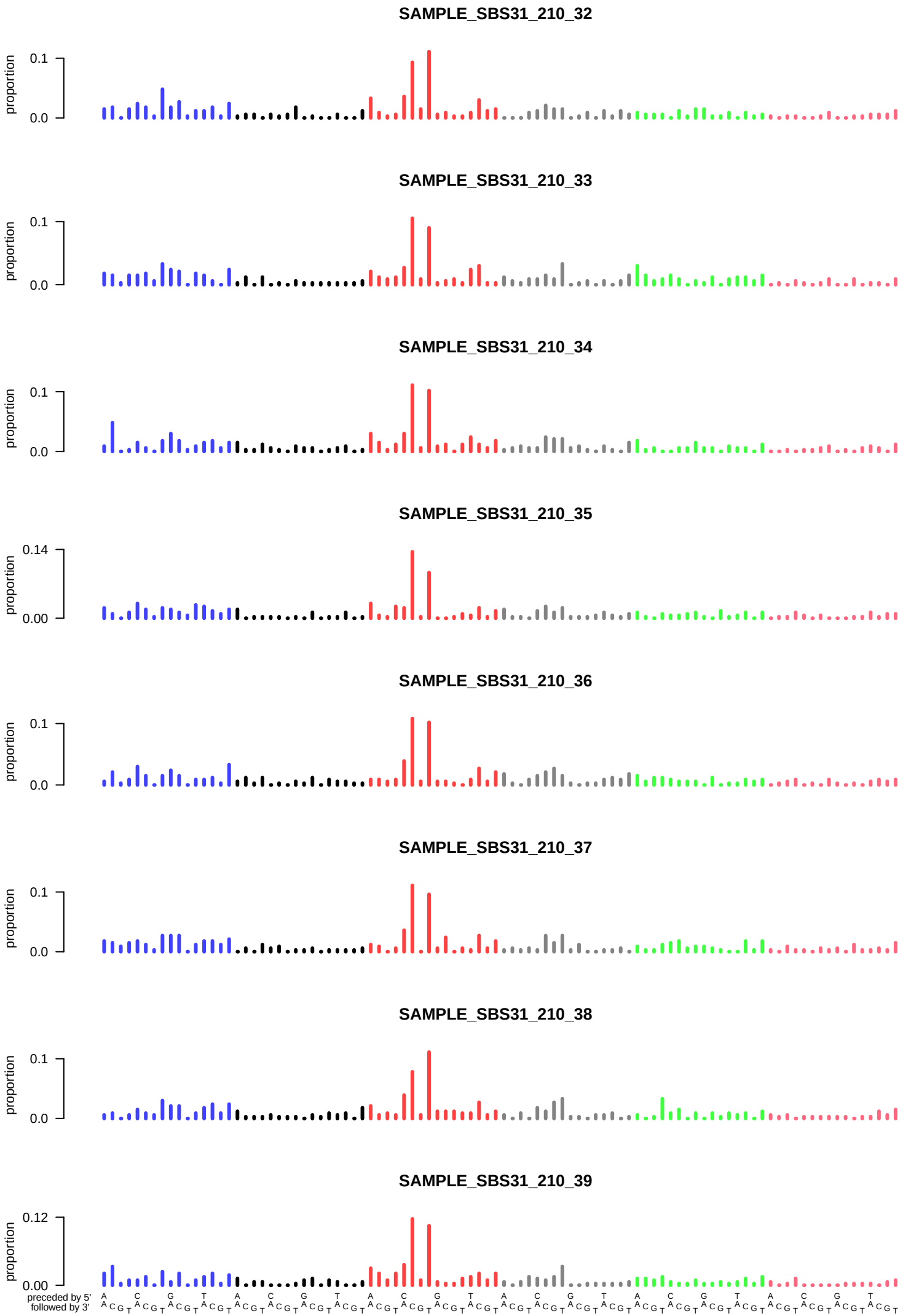
followed by 3'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SAMPLE_SBS31_210_37
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SAMPLE_SBS31_210_38
proportion
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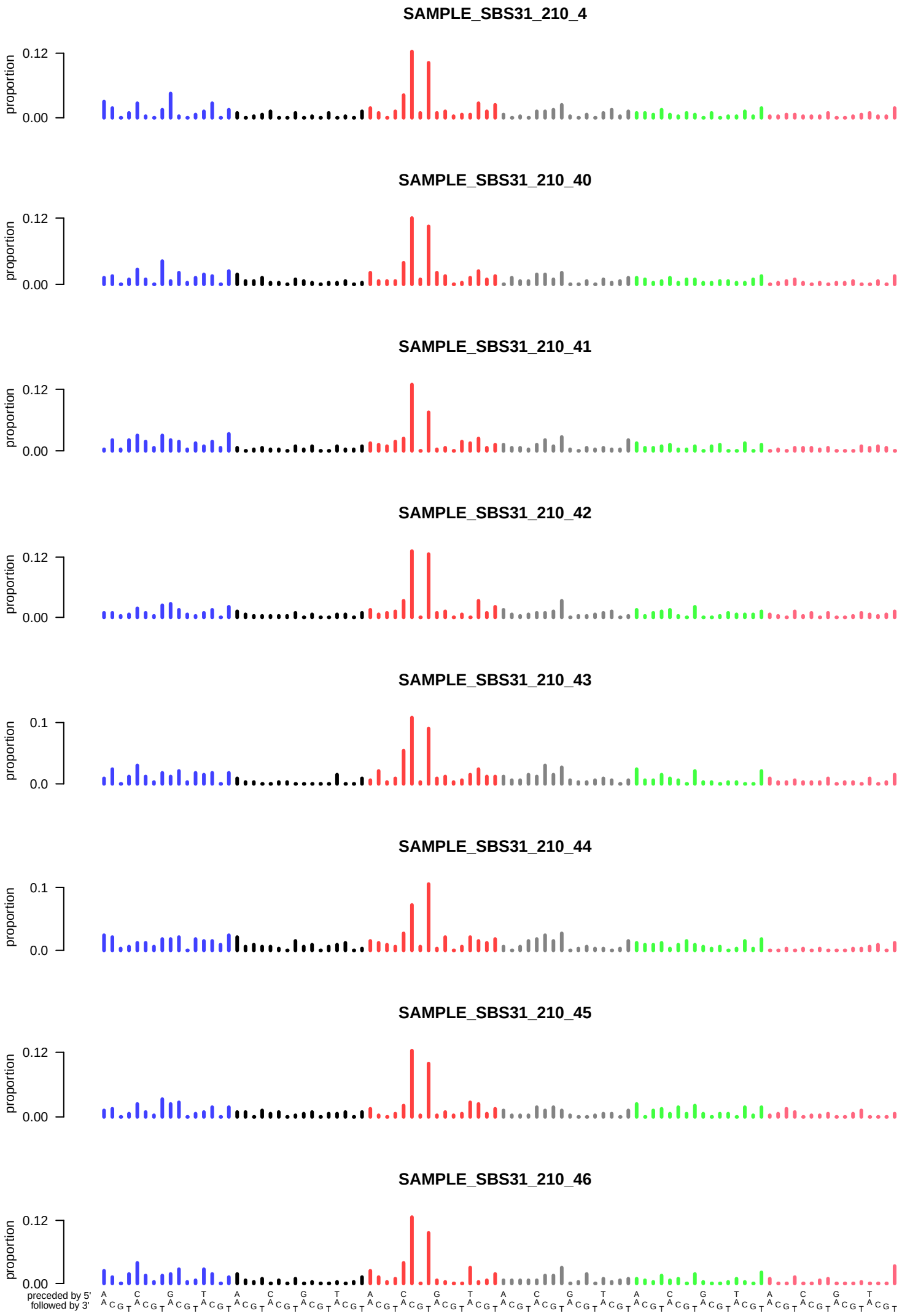
preceded by 5'
followed by 3'
A C G T A C G T A C G T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SAMPLE_SBS31_210_41
SAMPLE_SBS31_210_42
SAMPLE_SBS31_210_43
SAMPLE_SBS31_210_44
SAMPLE_SBS31_210_45
SAMPLE_SBS31_210_46
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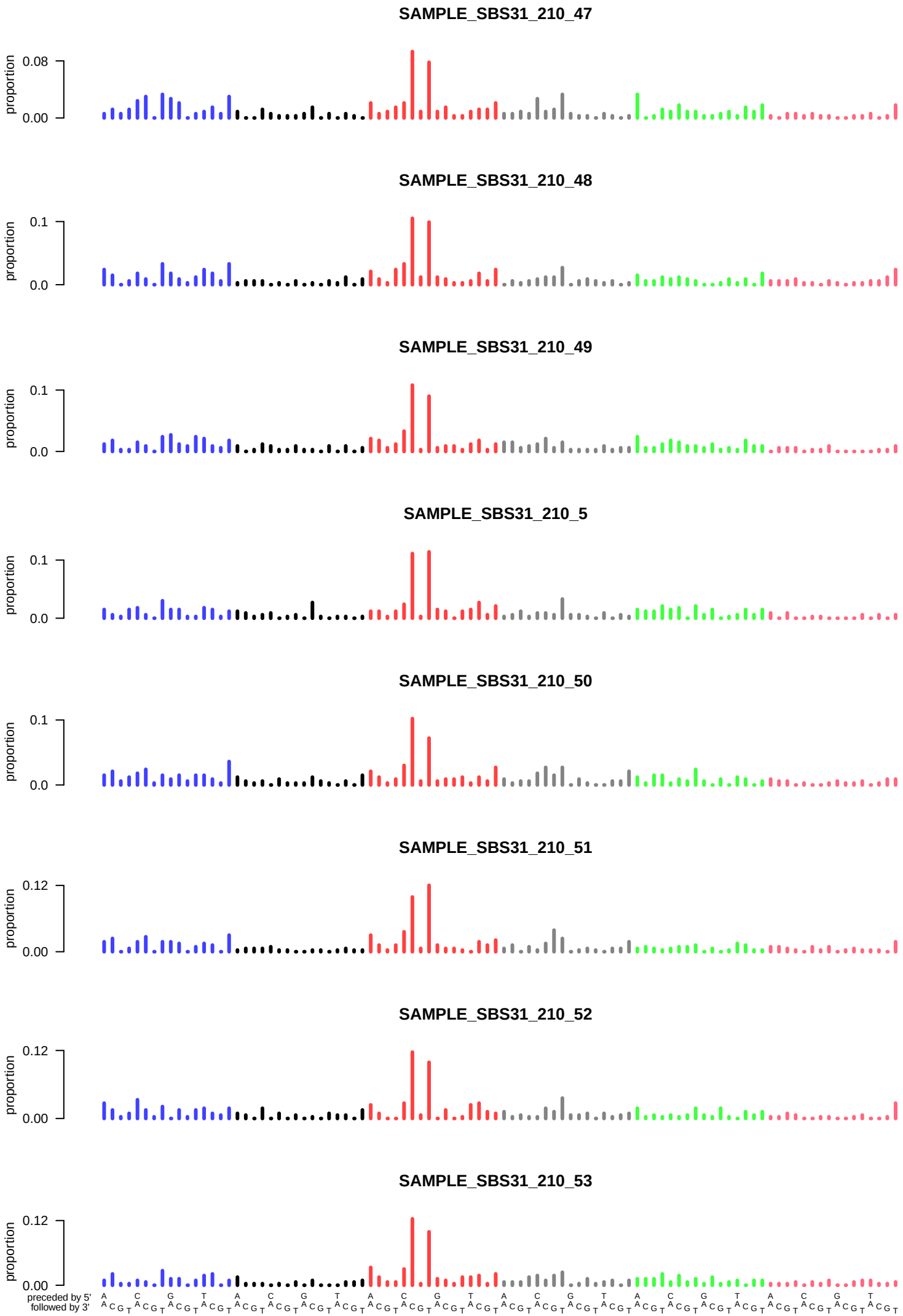
preceded by 5'
followed by 3'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SAMPLE_SBS31_210_49
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SAMPLE_SBS31_210_5
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SAMPLE_SBS31_210_50
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SAMPLE_SBS31_210_51
proportion
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SAMPLE_SBS31_210_52
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SAMPLE_SBS31_210_53
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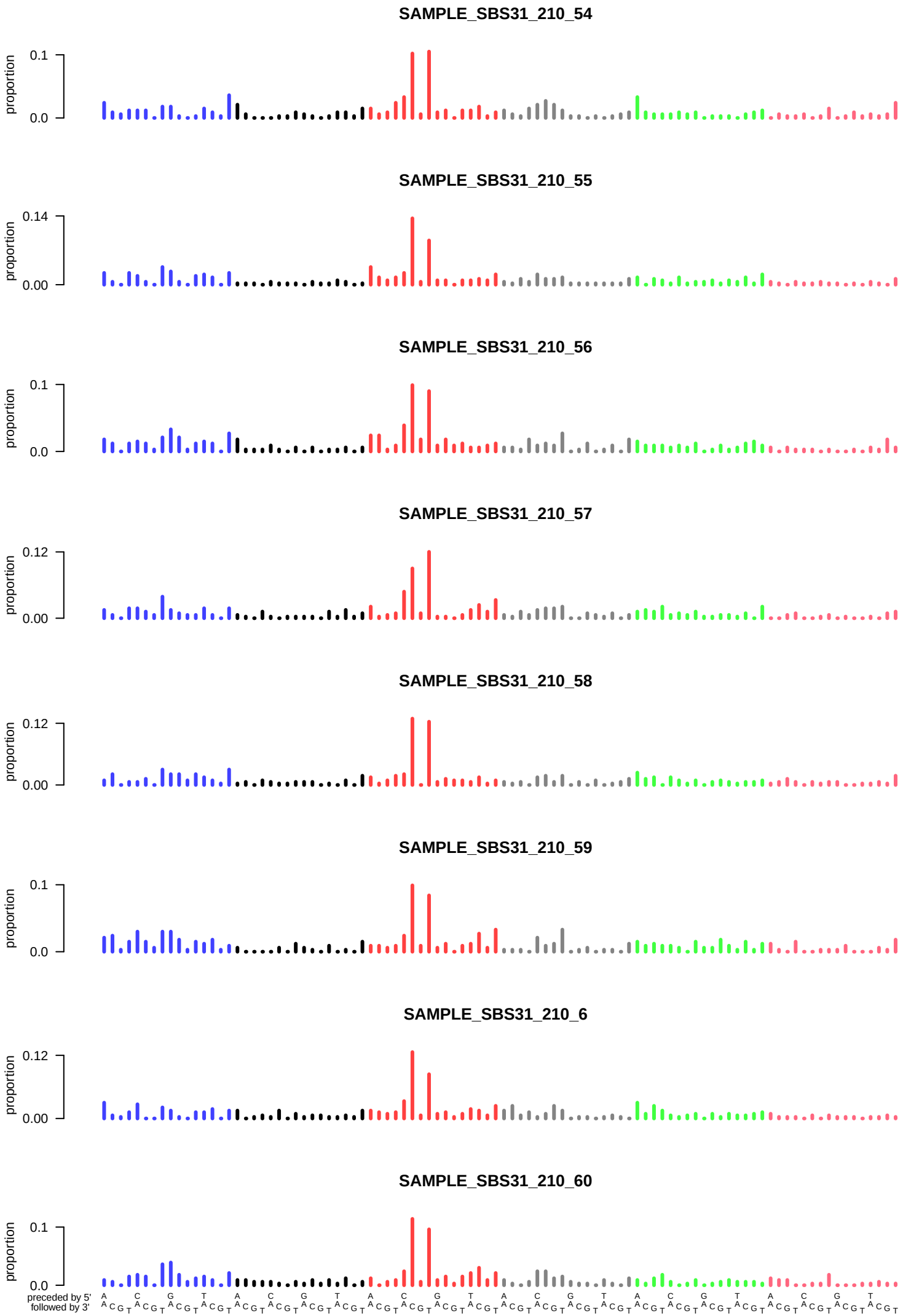
preceded by 5'
followed by 3'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SAMPLE_SBS31_210_57
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SAMPLE_SBS31_210_58
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SAMPLE_SBS31_210_59
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SAMPLE_SBS31_210_6
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SAMPLE_SBS31_210_60
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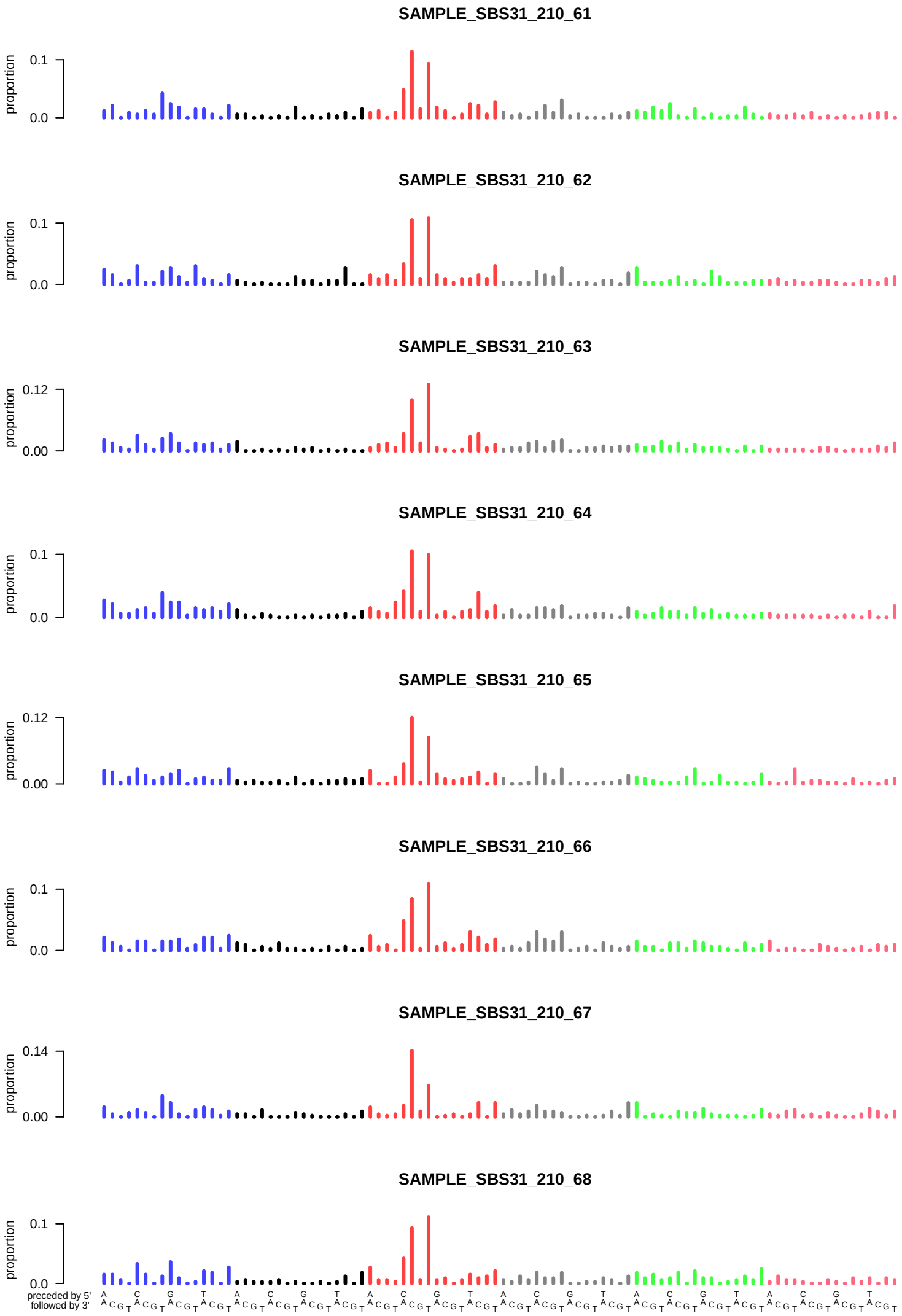
preceded by 5'
followed by 3'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SAMPLE_SBS31_210_63
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SAMPLE_SBS31_210_66
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SAMPLE_SBS31_210_67
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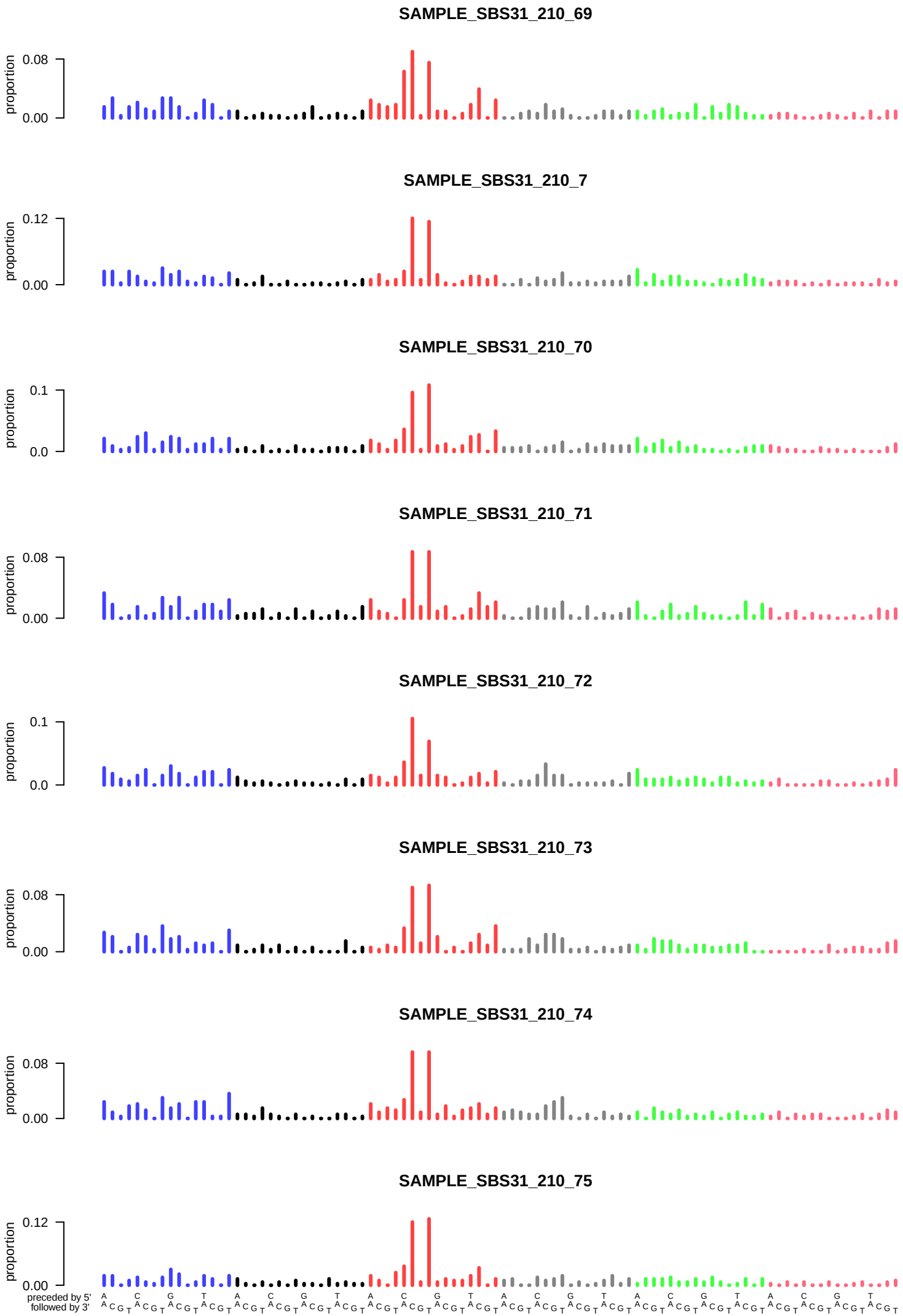
preceded by 5'
followed by 3'
A C G T A C G T A C G T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SAMPLE_SBS31_210_71
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SAMPLE_SBS31_210_73
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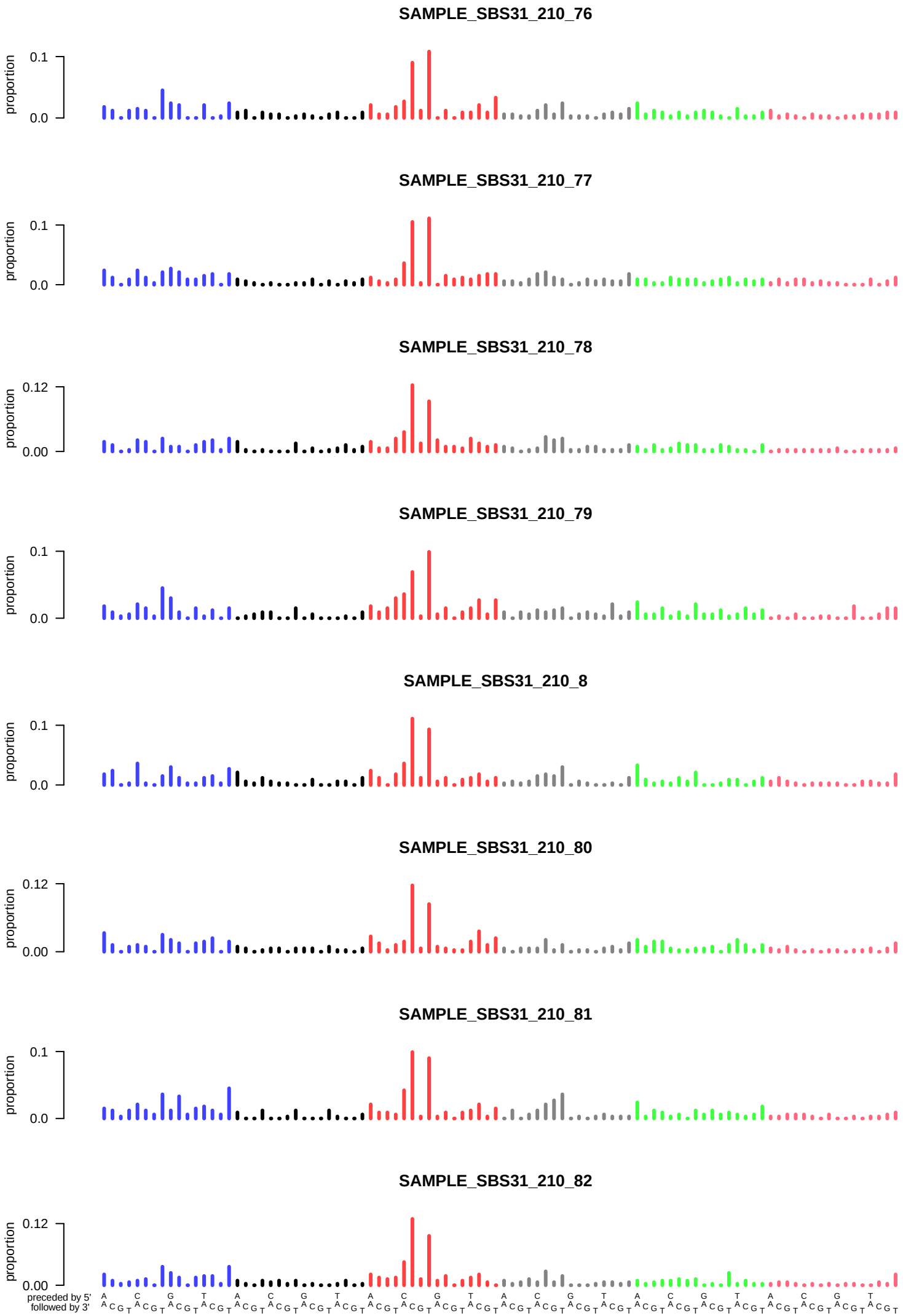
followed by 3'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SAMPLE_SBS31_210_8
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SAMPLE_SBS31_210_80
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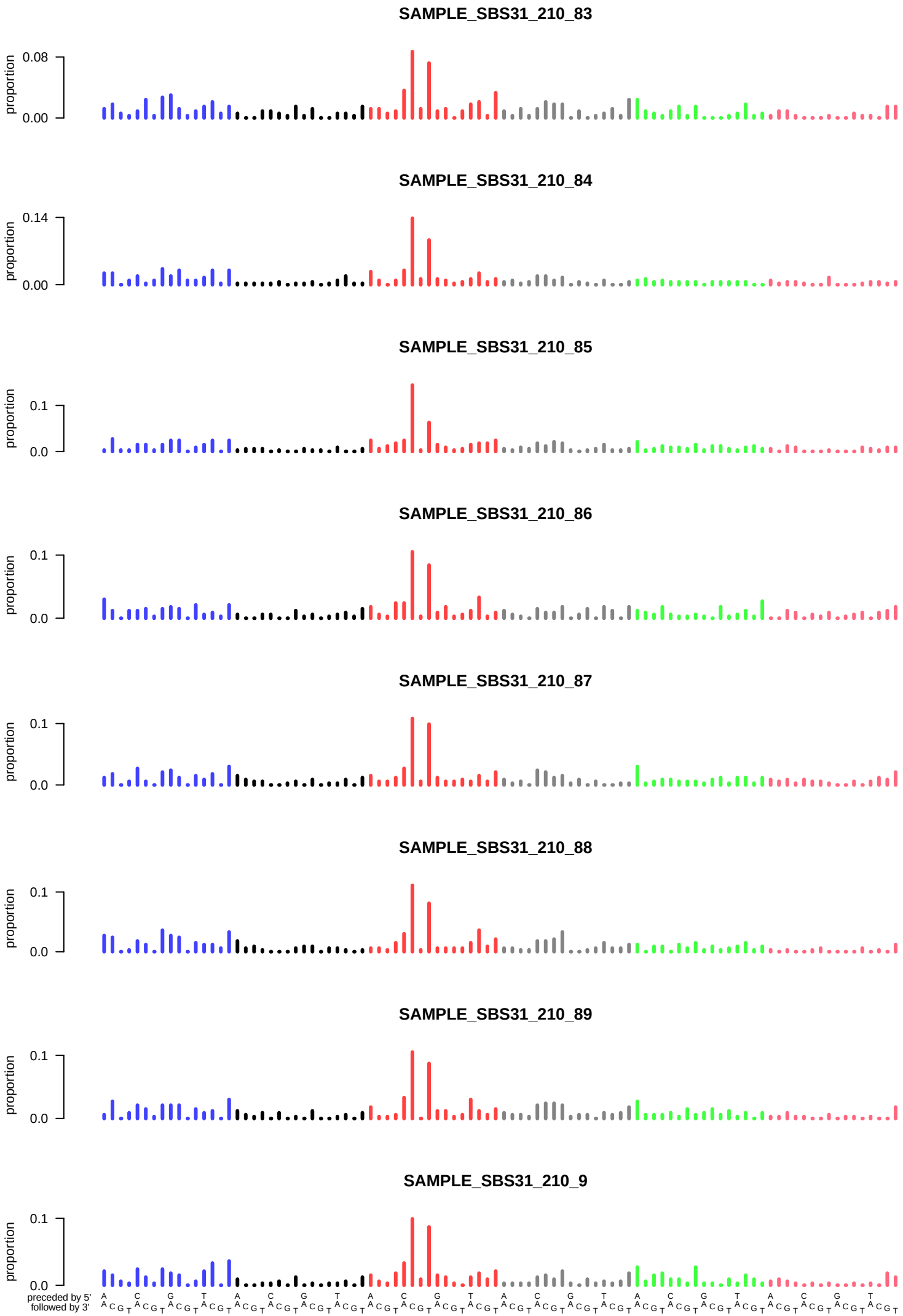
followed by 3'
A C G T A C G T A C G T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SAMPLE_SBS31_210_88
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SAMPLE_SBS31_210_89
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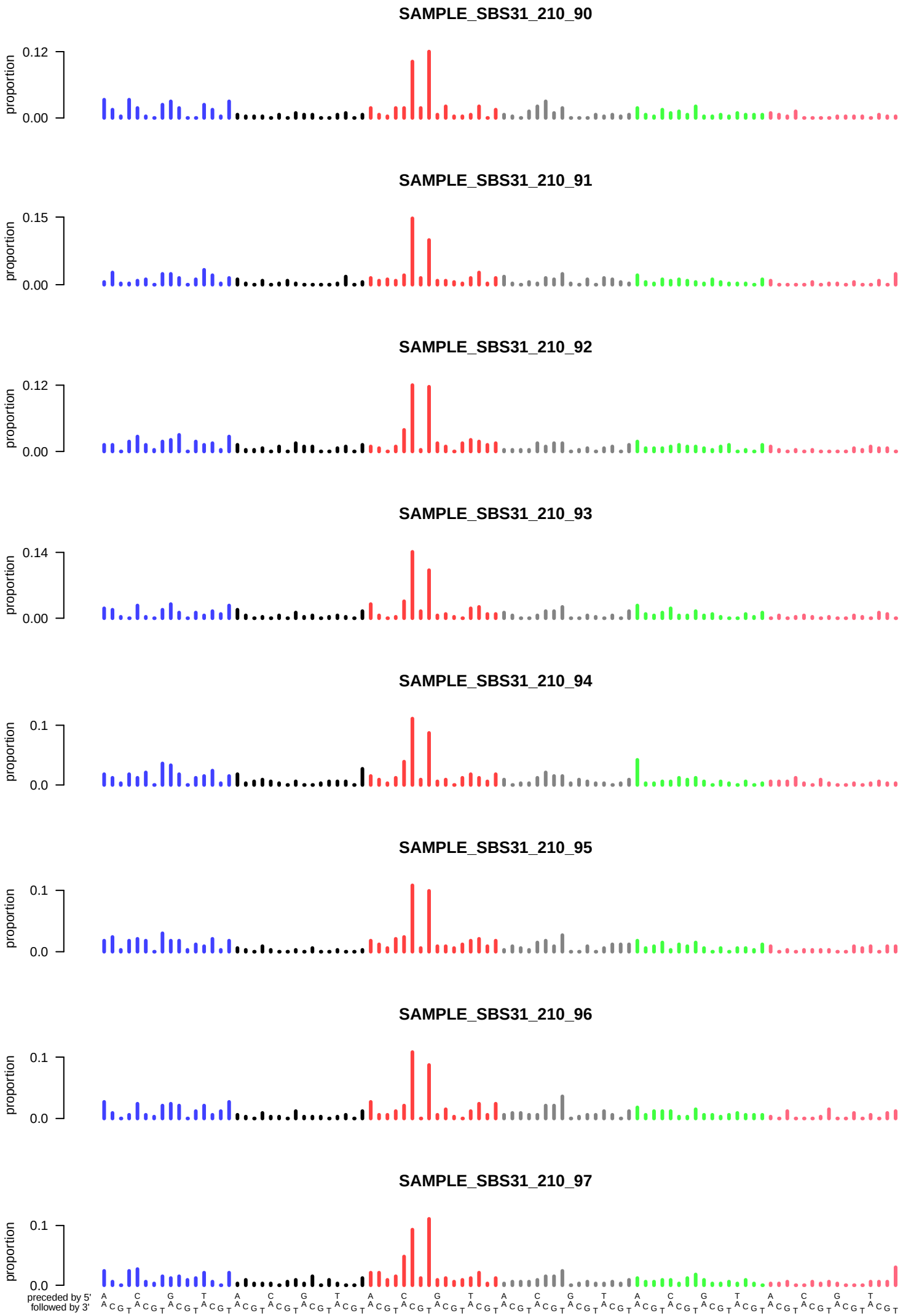
preceded by 5'
followed by 3'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SAMPLE_SBS31_210_96
proportion
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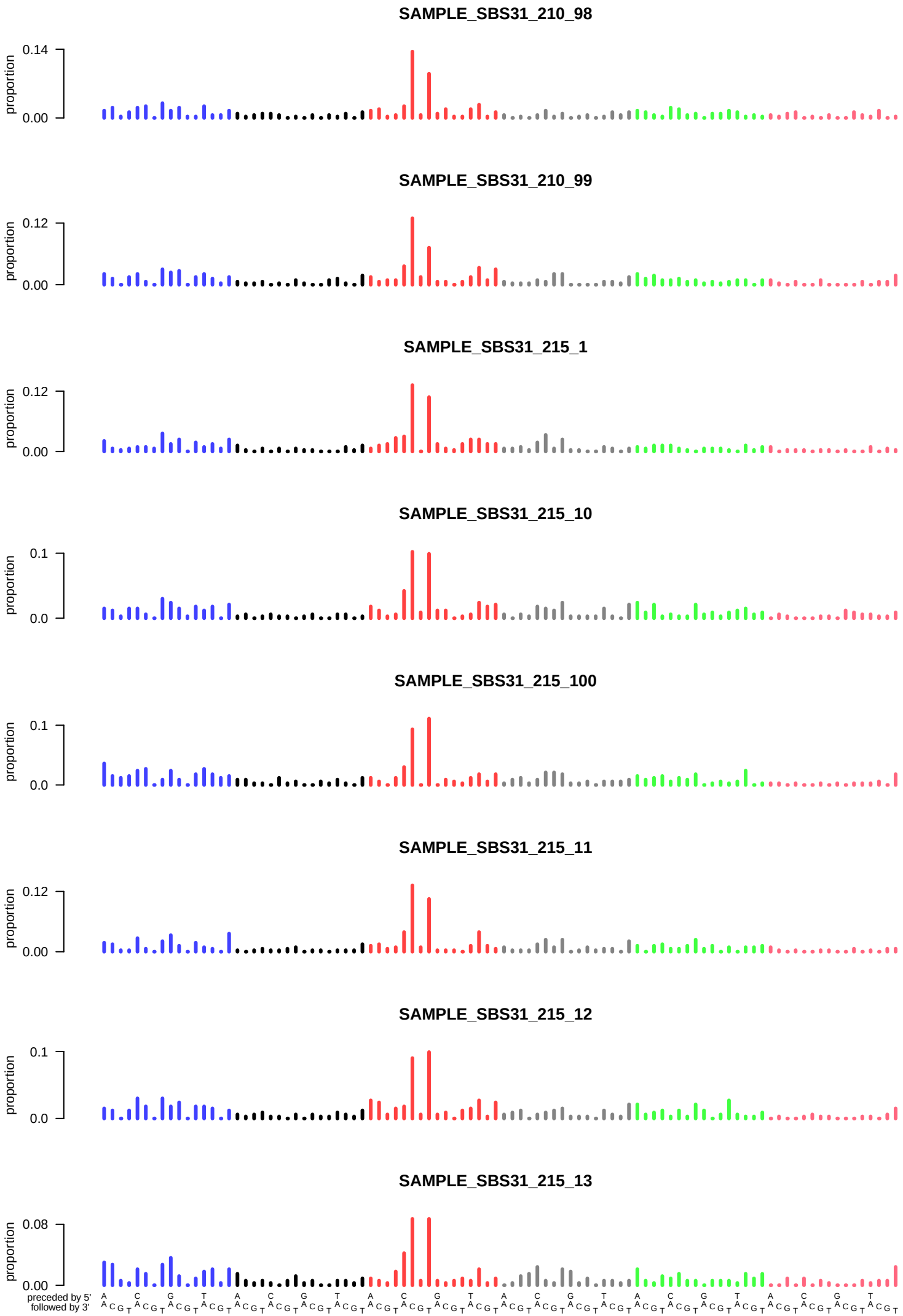
followed by 3'
A C G T A C G T A C G T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SAMPLE_SBS31_215_100
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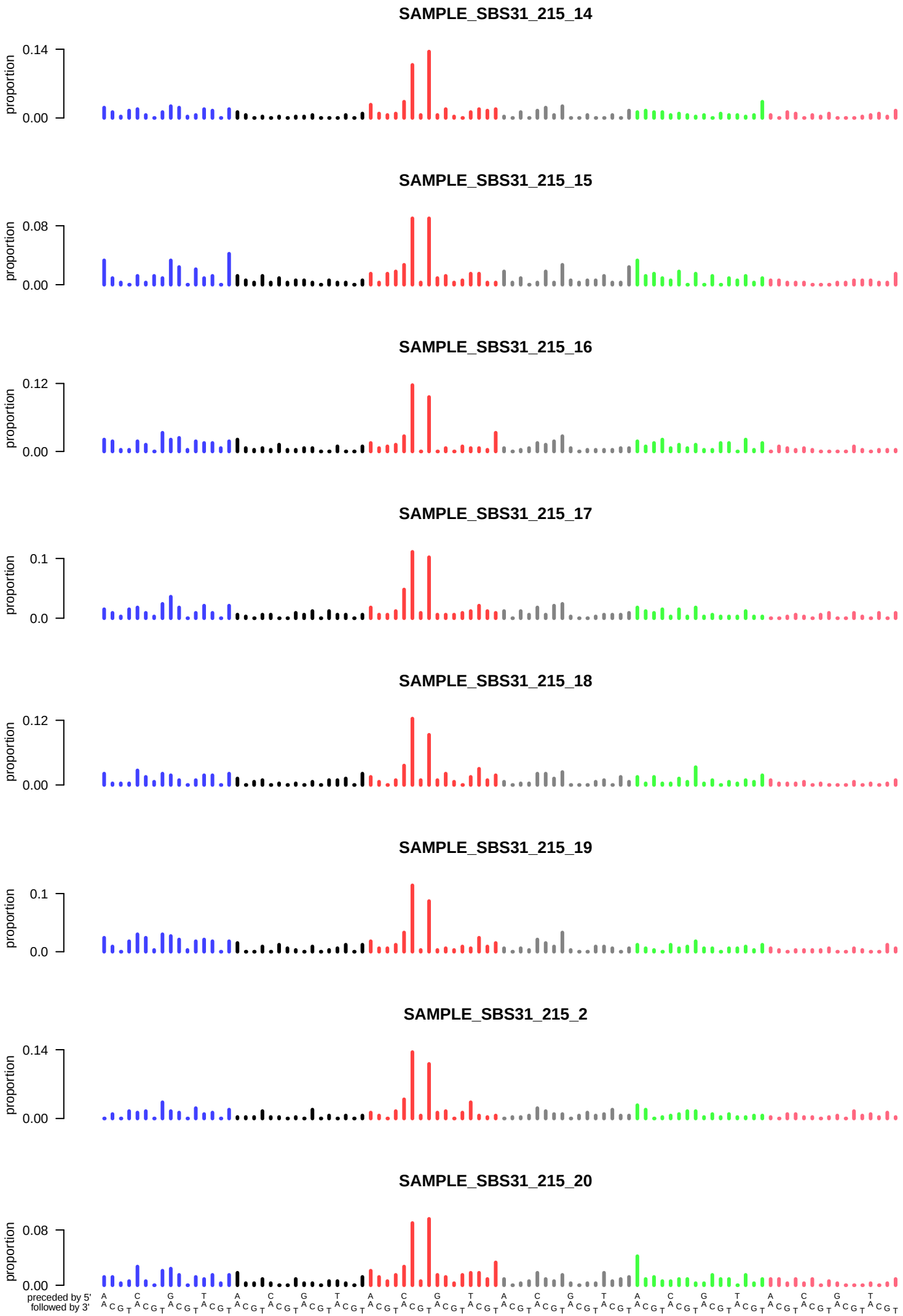
followed by 3'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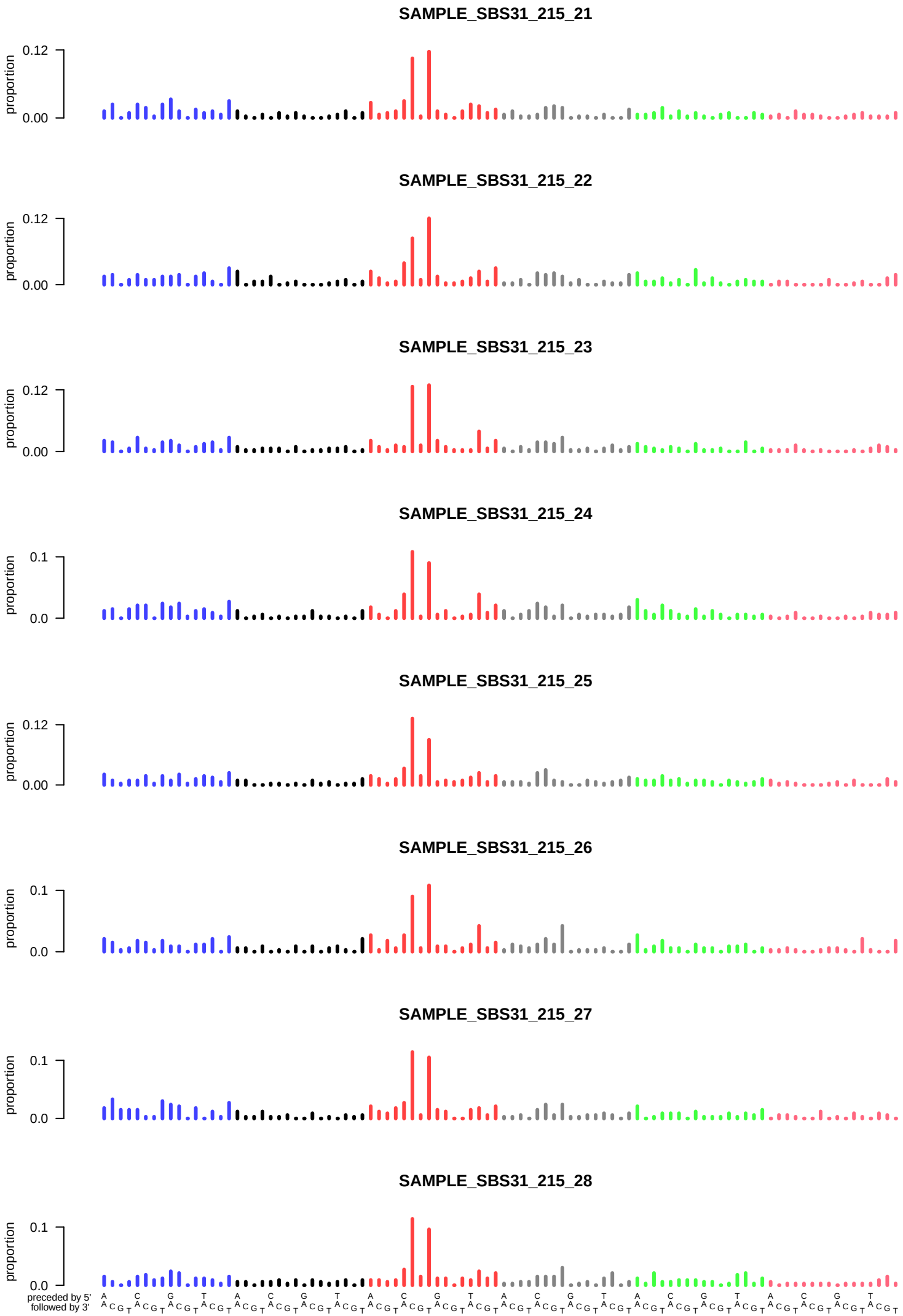
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SAMPLE_SBS31_215_26
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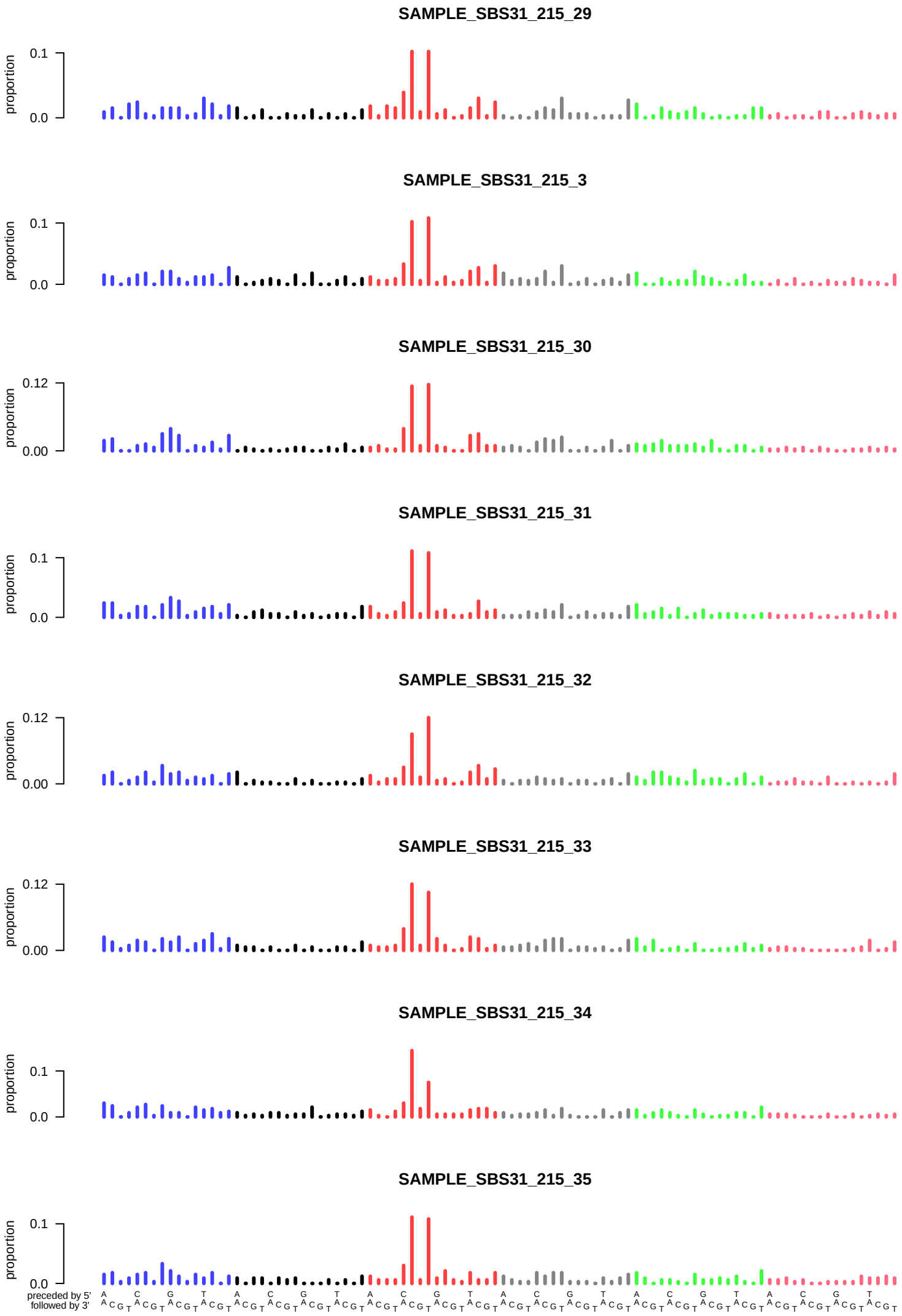
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SAMPLE_SBS31_215_32
SAMPLE_SBS31_215_33
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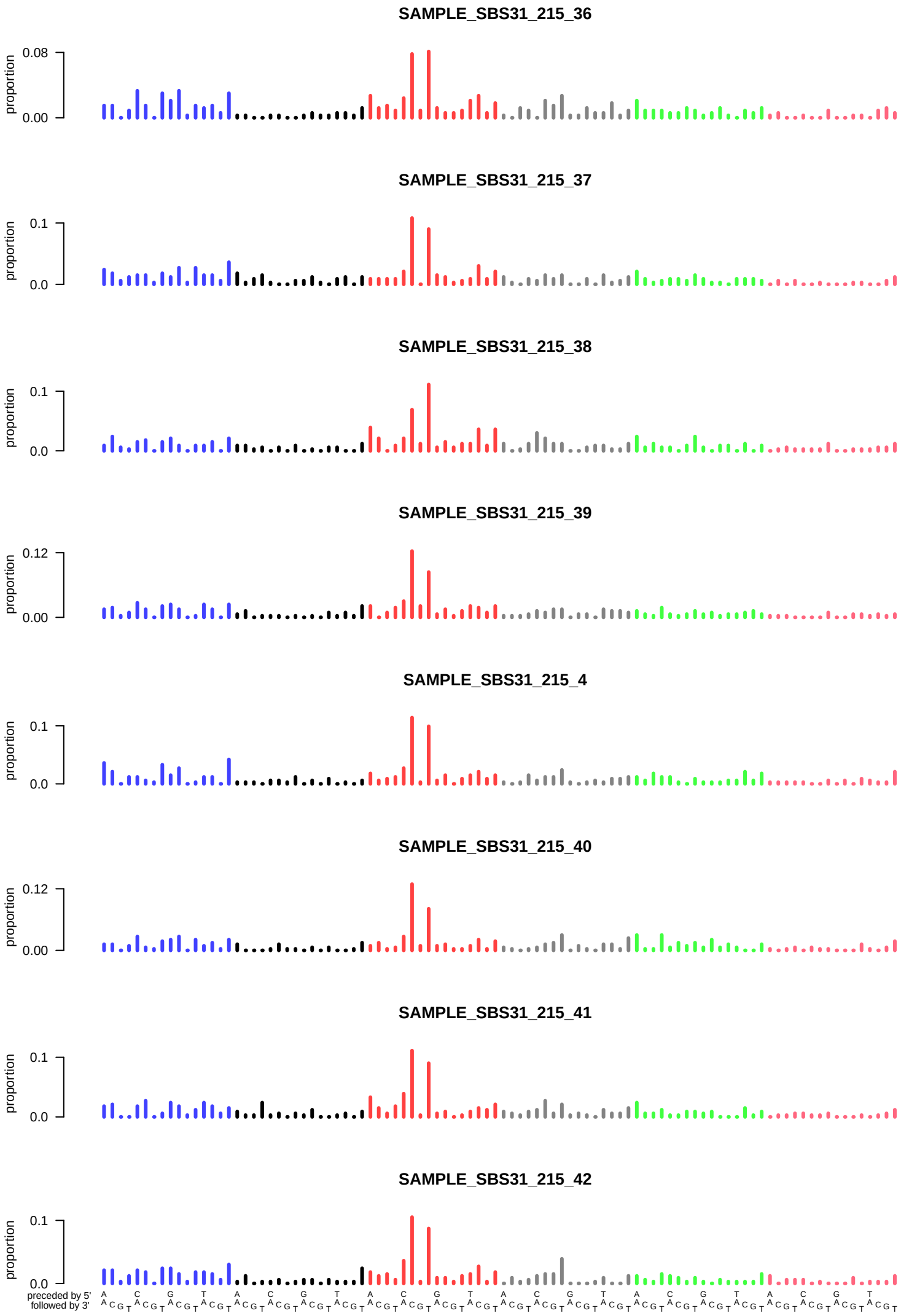
preceded by 5'
followed by 3'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SAMPLE_SBS31_215_41
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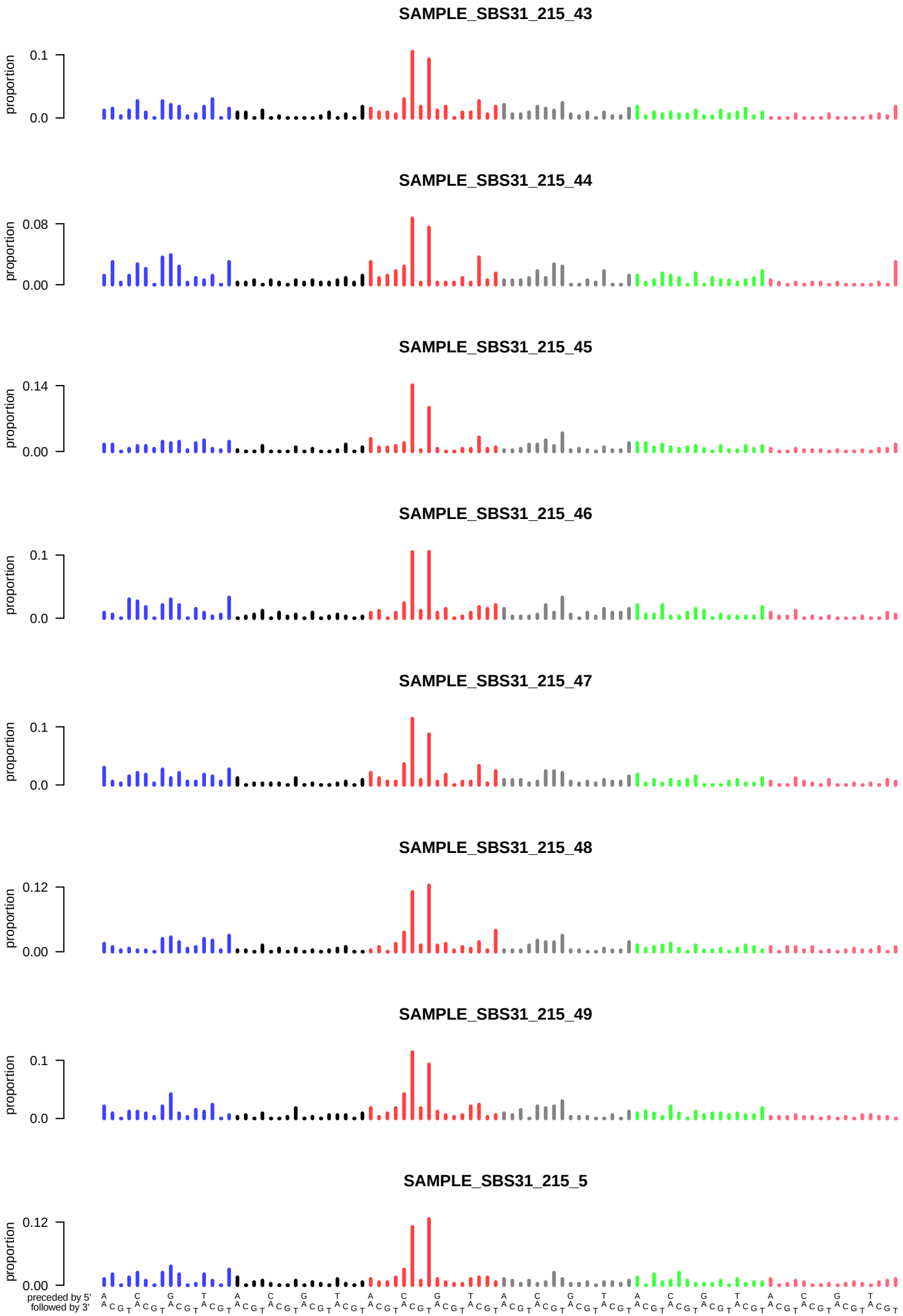
A C G T A C G T A C G T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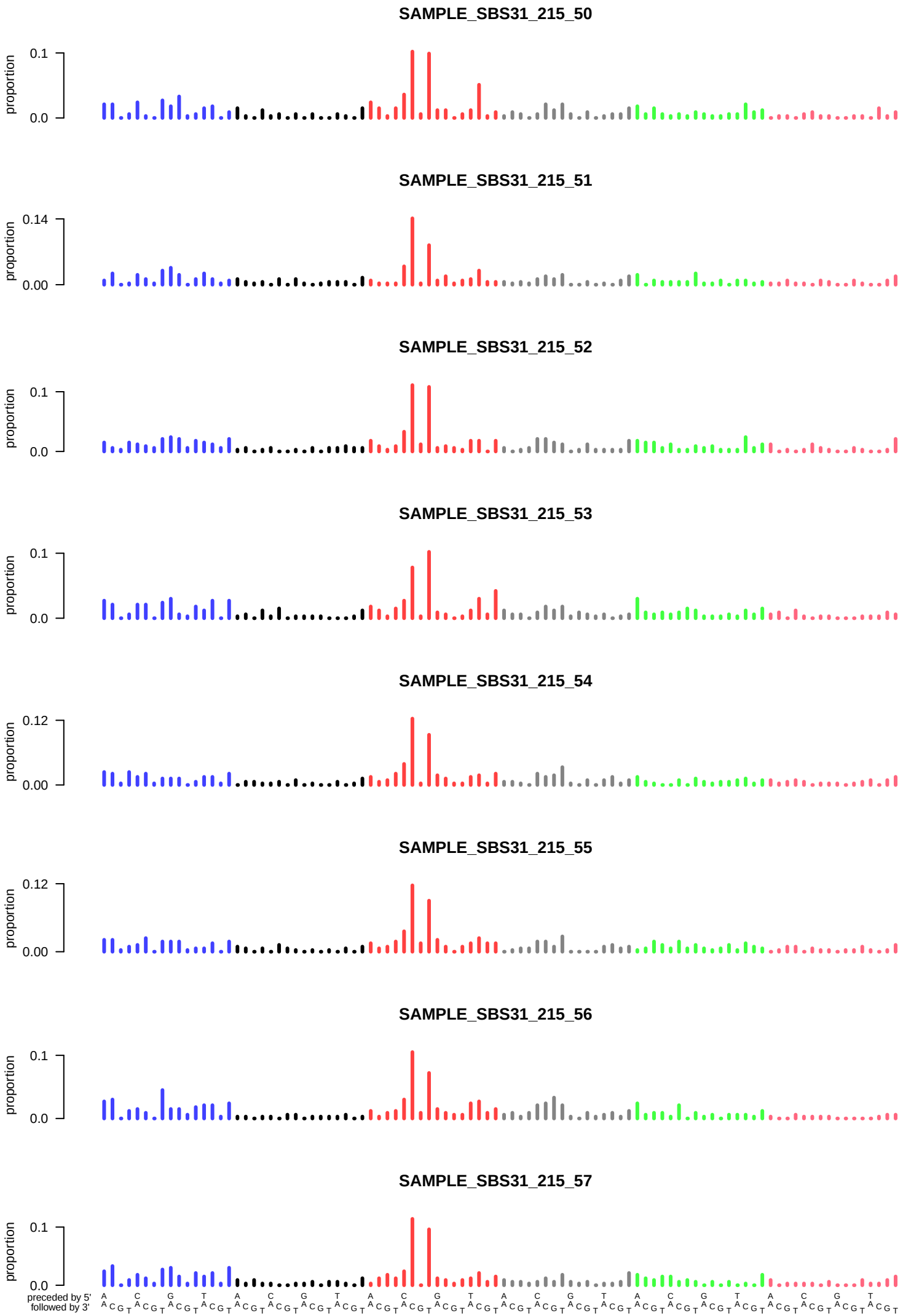
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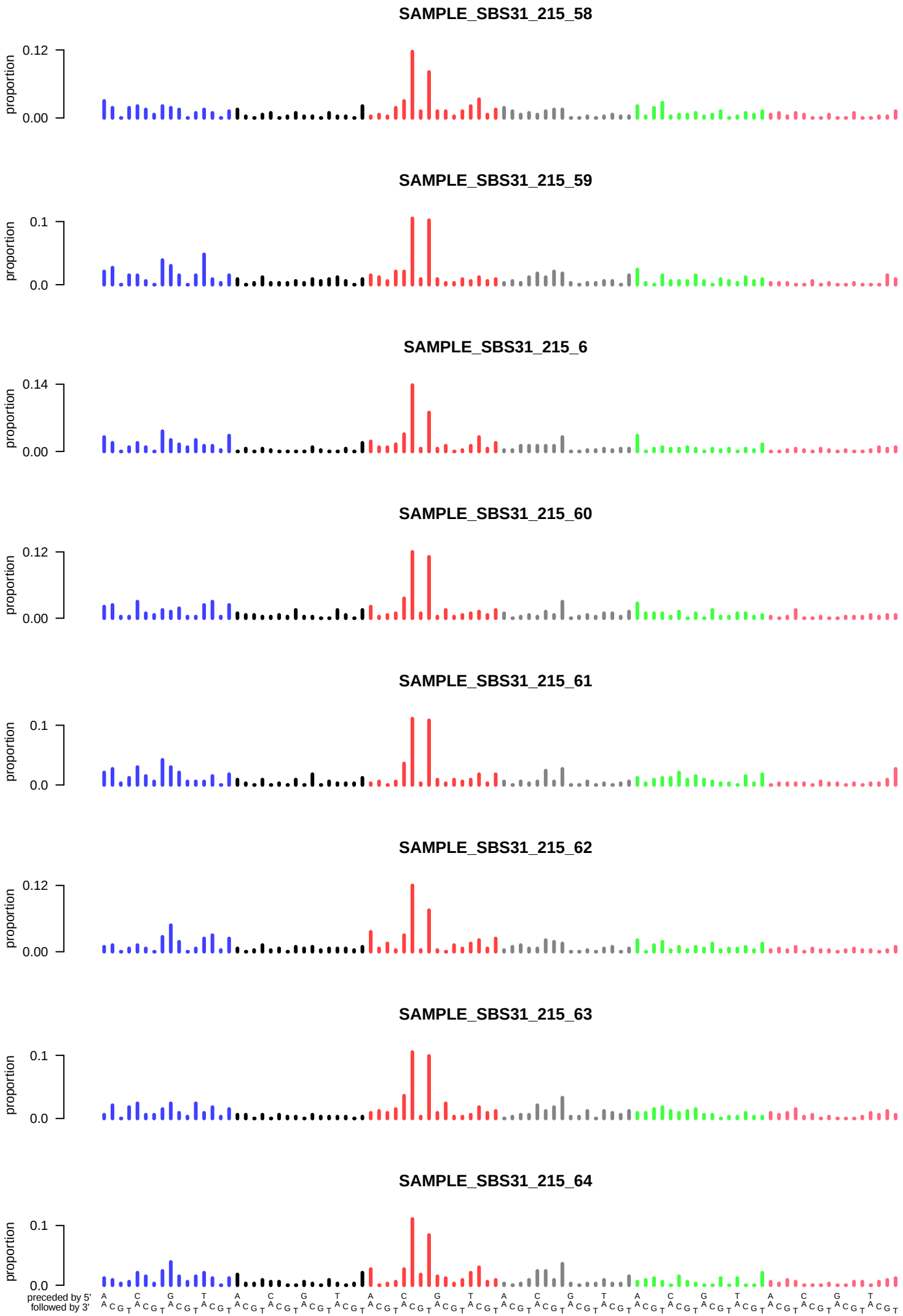
followed by 3'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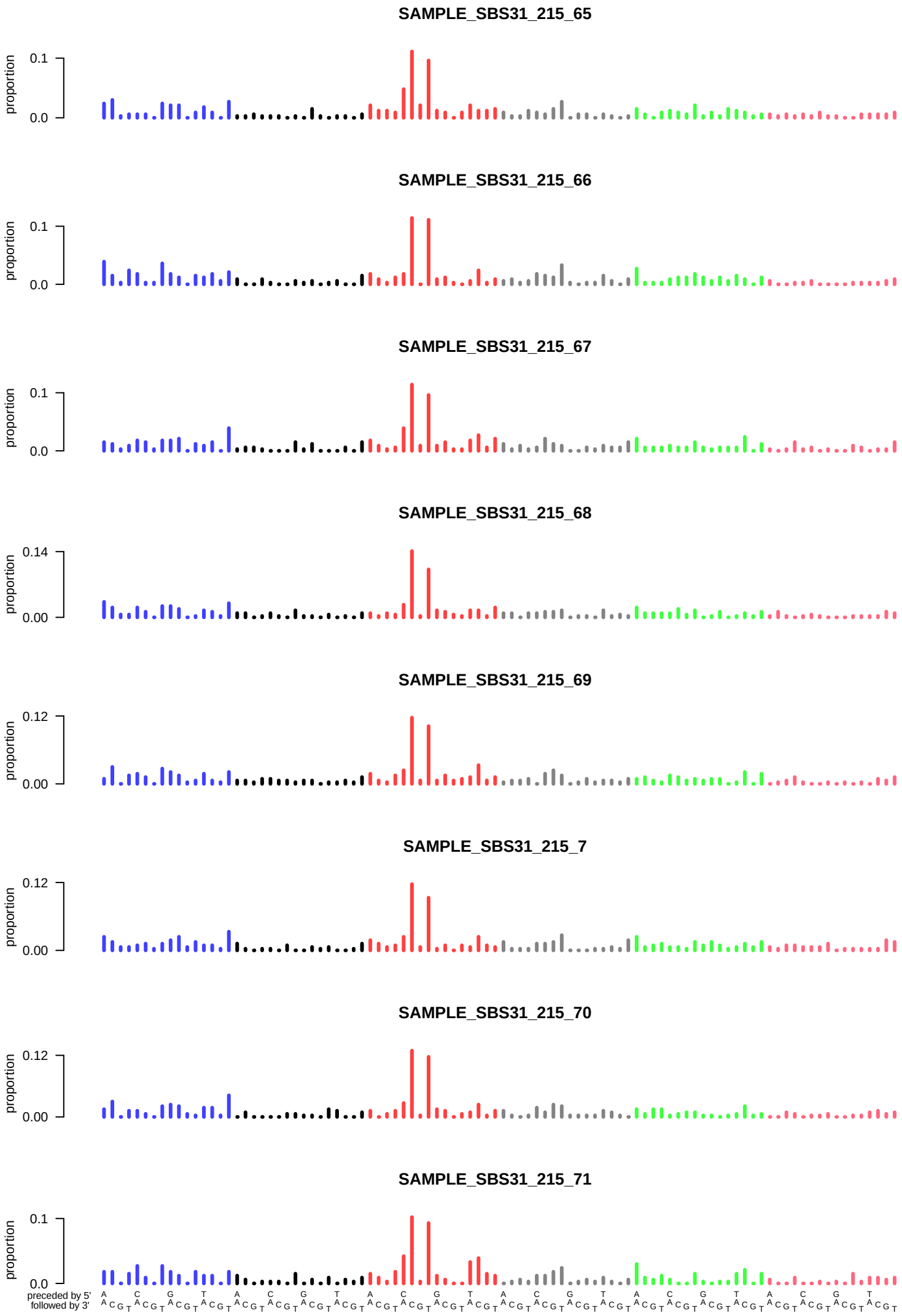
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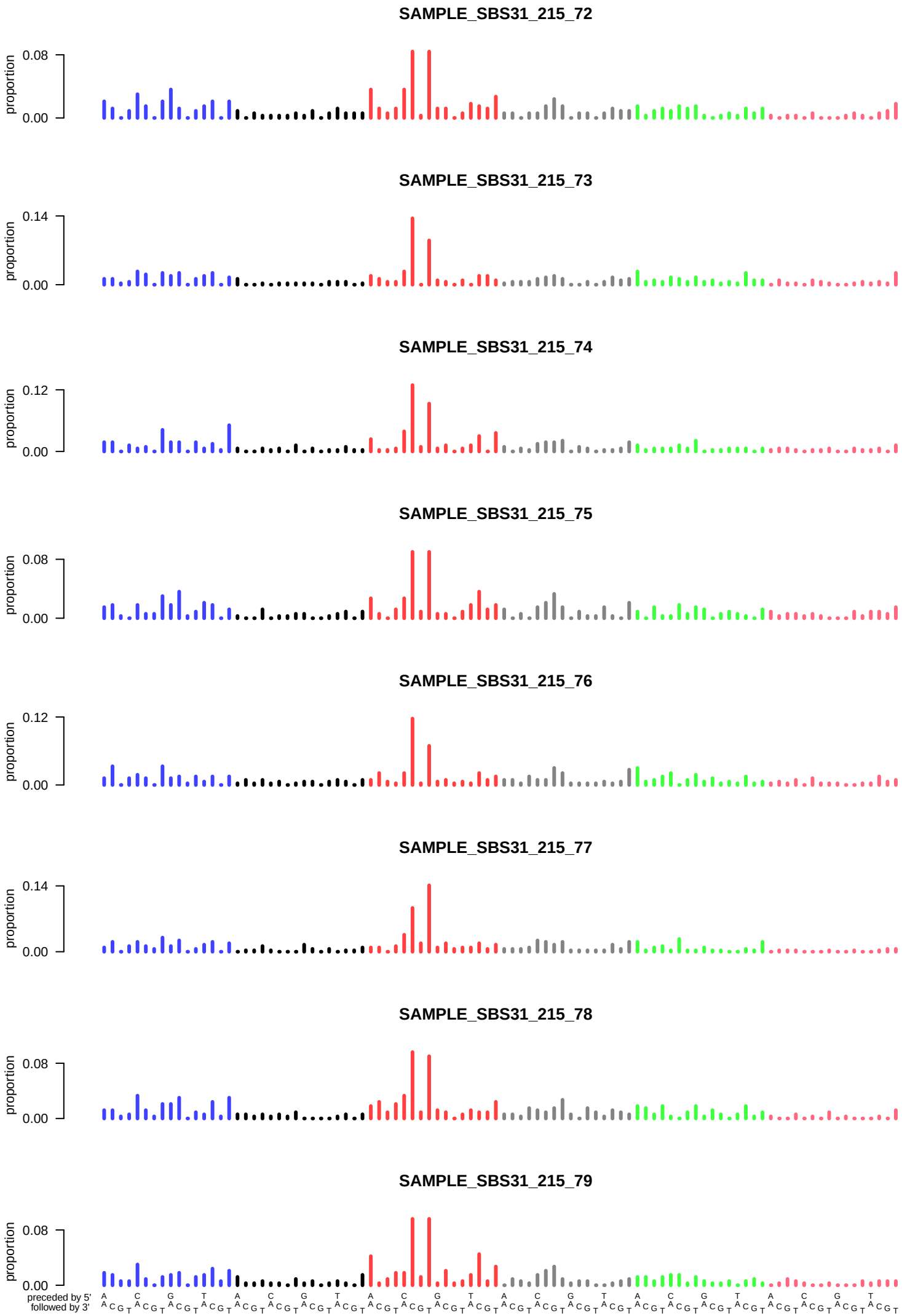
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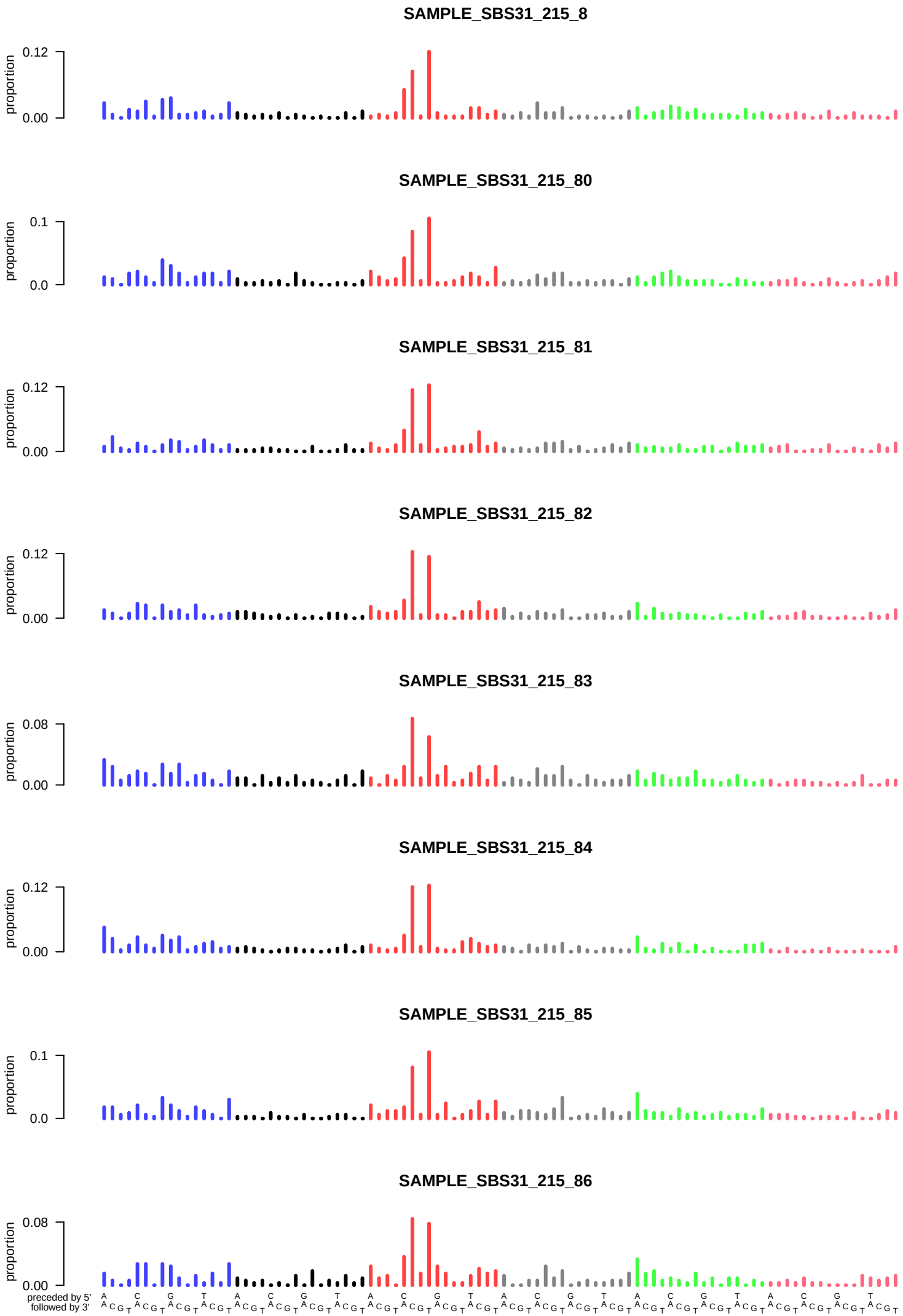
preceded by 5'
followed by 3'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SAMPLE_SBS31_215_82
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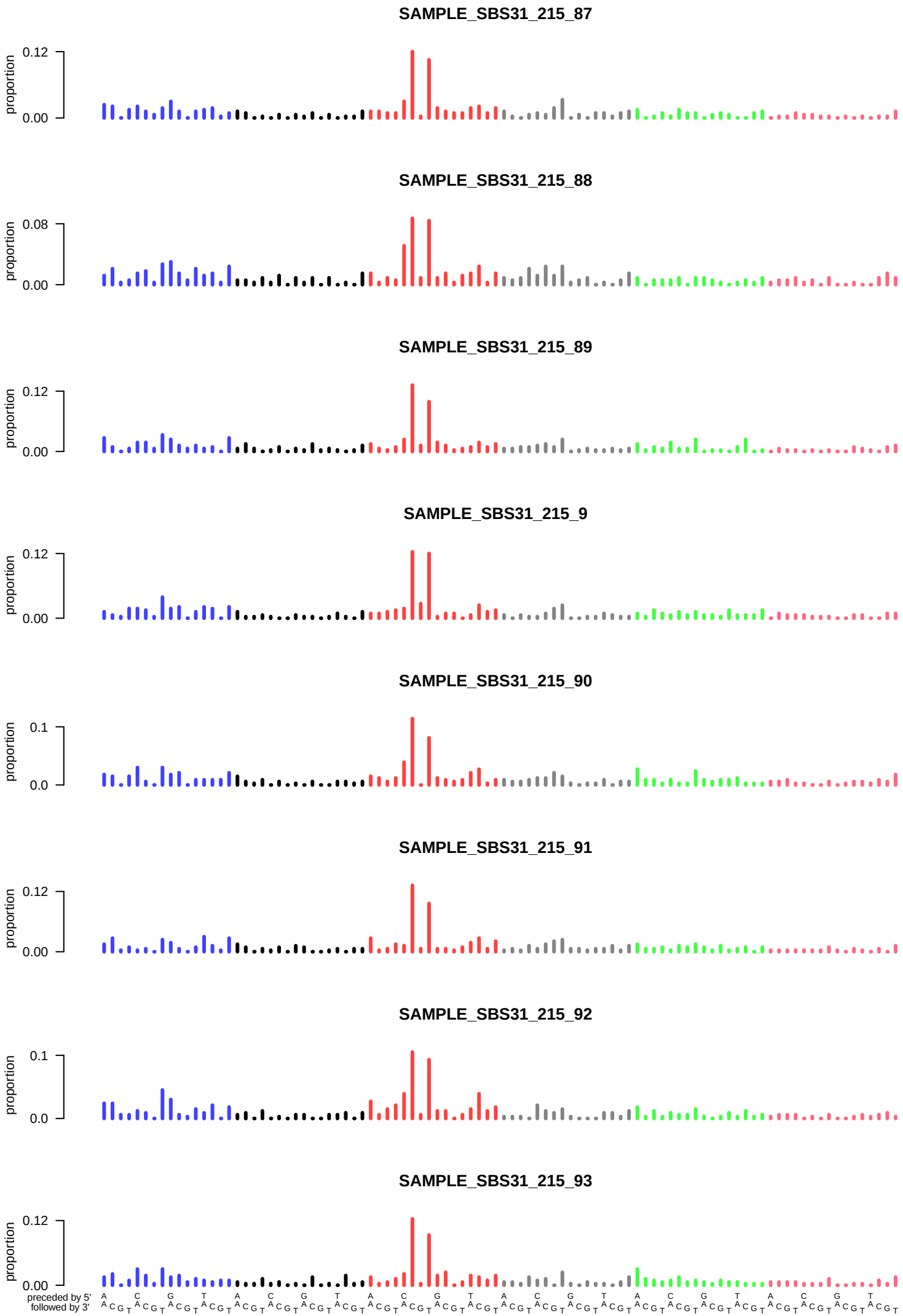
followed by 3'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SAMPLE_SBS31_215_9
proportion
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SAMPLE_SBS31_215_90
proportion
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SAMPLE_SBS31_215_91
proportion
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SAMPLE_SBS31_215_92
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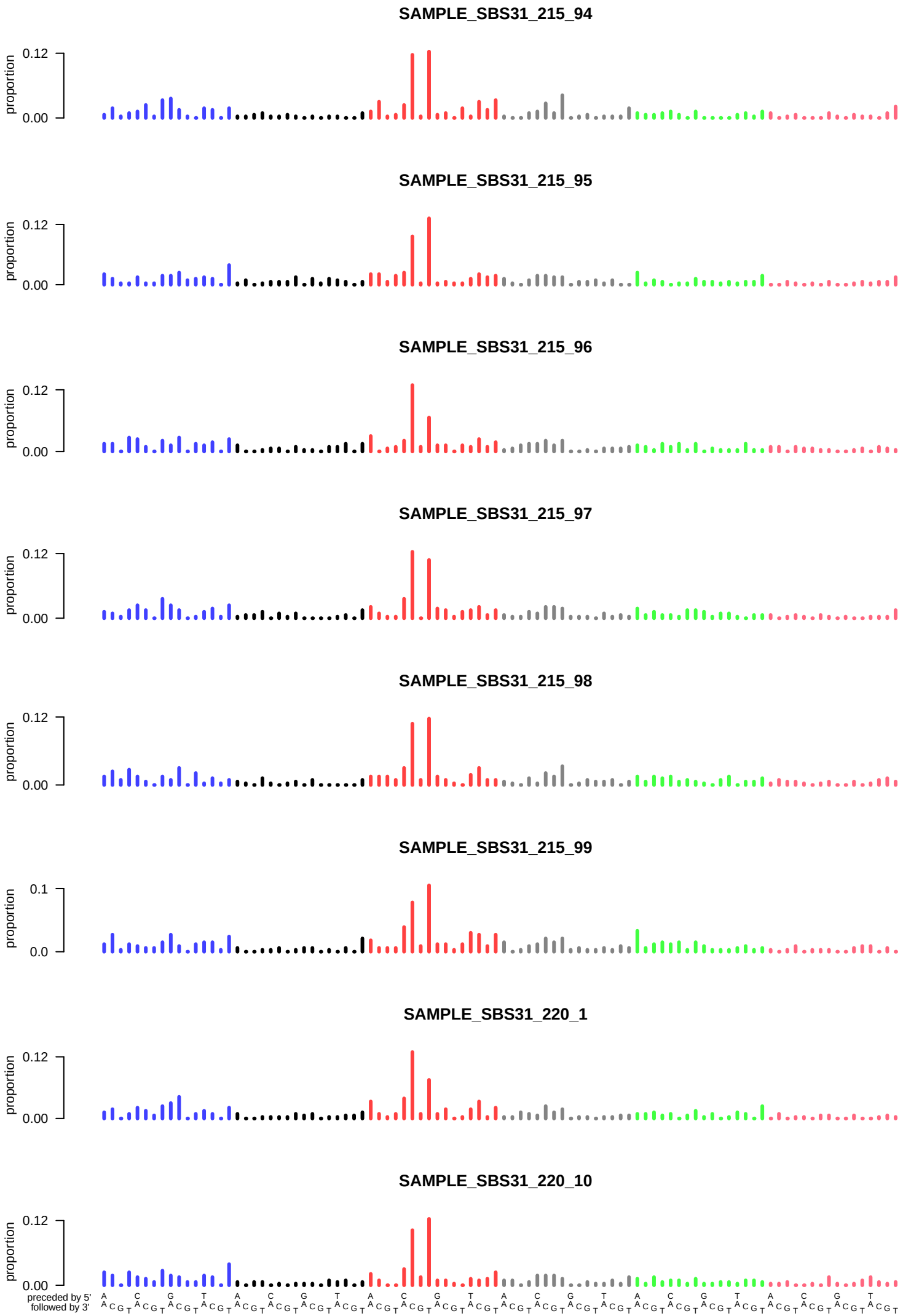
preceded by 5'
followed by 3'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SAMPLE_SBS31_215_95
SAMPLE_SBS31_215_96
SAMPLE_SBS31_215_97
SAMPLE_SBS31_215_98
SAMPLE_SBS31_215_99
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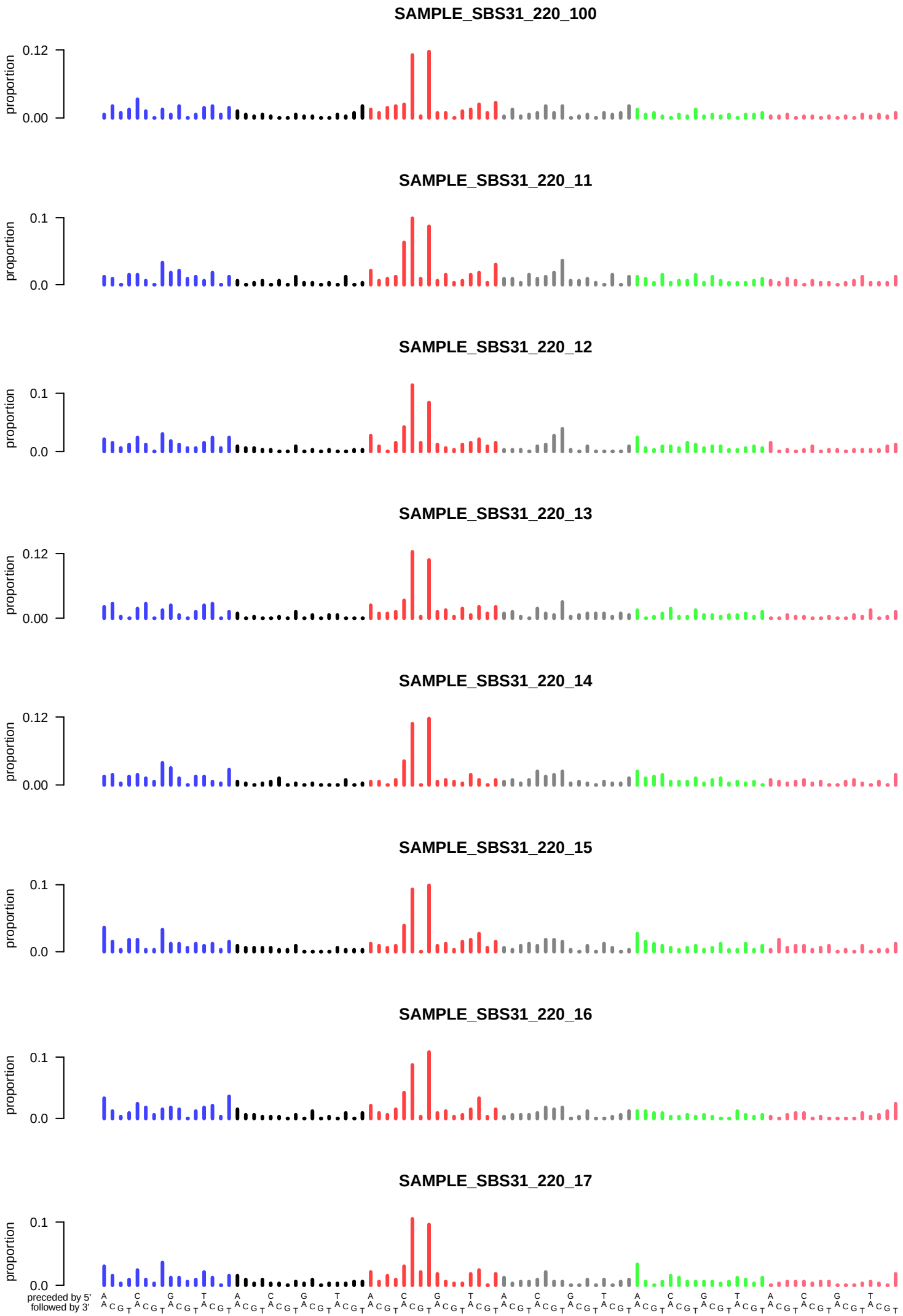
followed by 3'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SAMPLE_SBS31_220_13
proportion
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SAMPLE_SBS31_220_14
proportion
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SAMPLE_SBS31_220_15
proportion
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SAMPLE_SBS31_220_16
proportion
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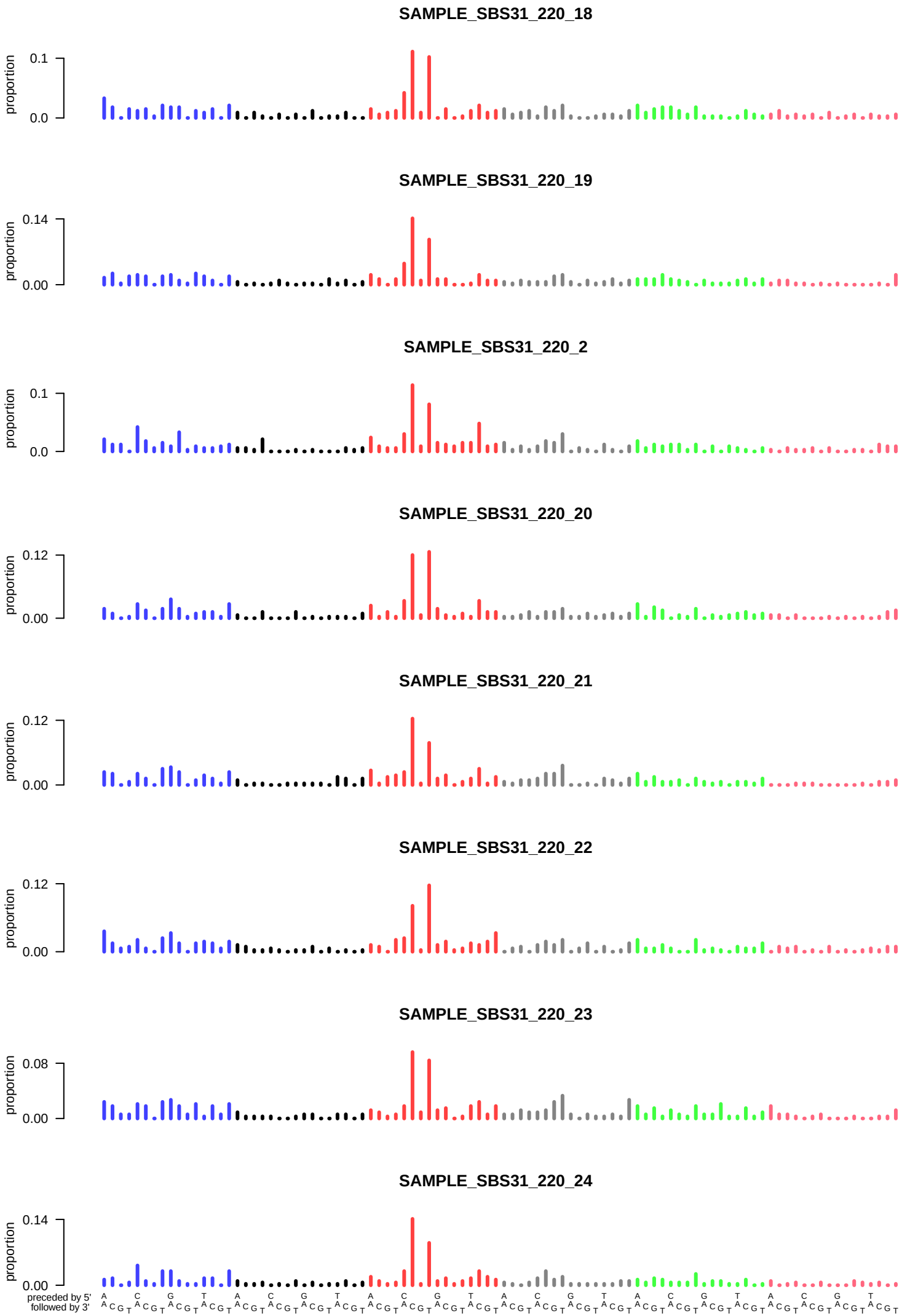
preceded by 5'
followed by 3'
A C G T A C G T A C G T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SAMPLE_SBS31_220_20
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SAMPLE_SBS31_220_22
proportion
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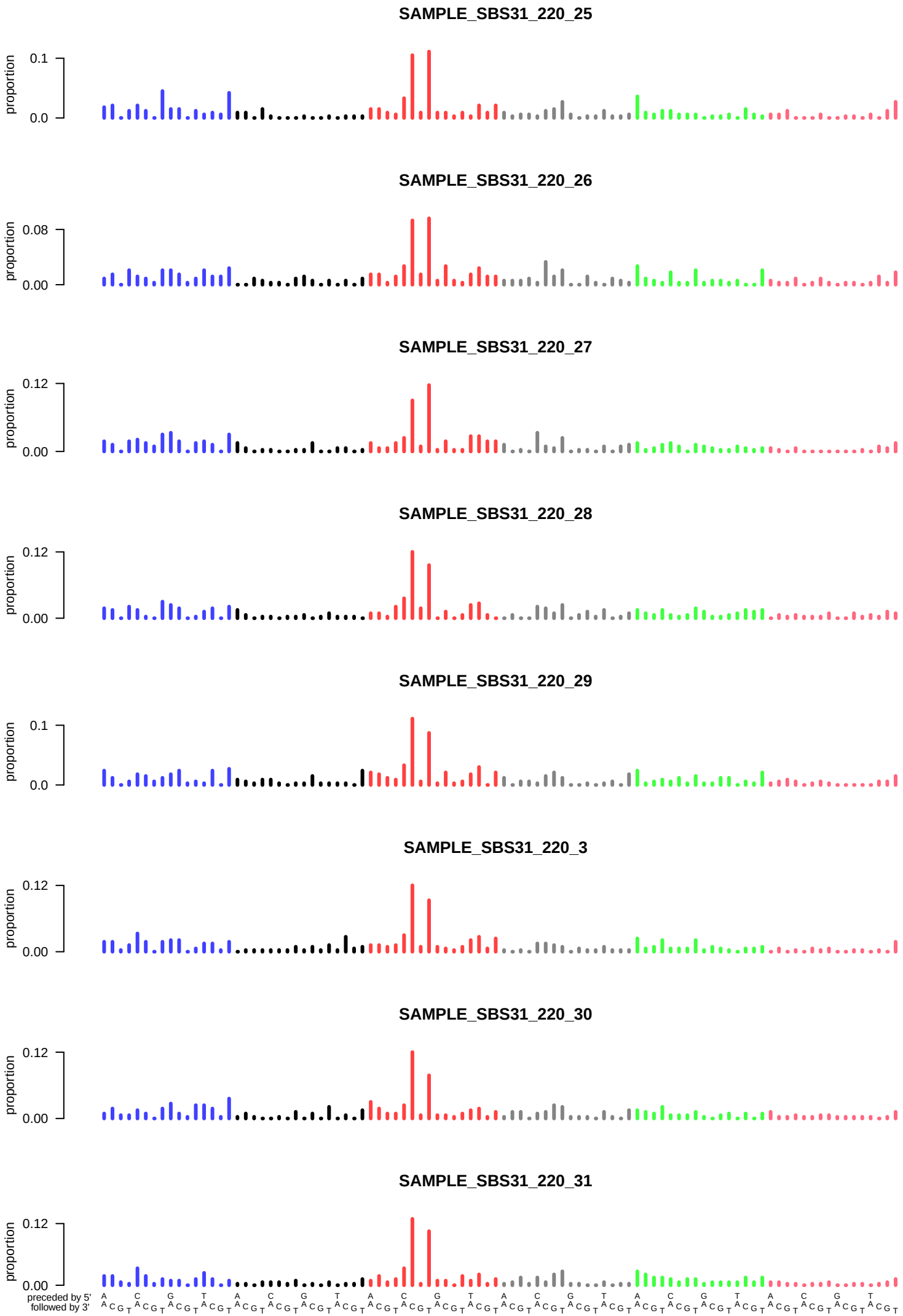
followed by 3'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SAMPLE_SBS31_220_28
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SAMPLE_SBS31_220_3
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SAMPLE_SBS31_220_30
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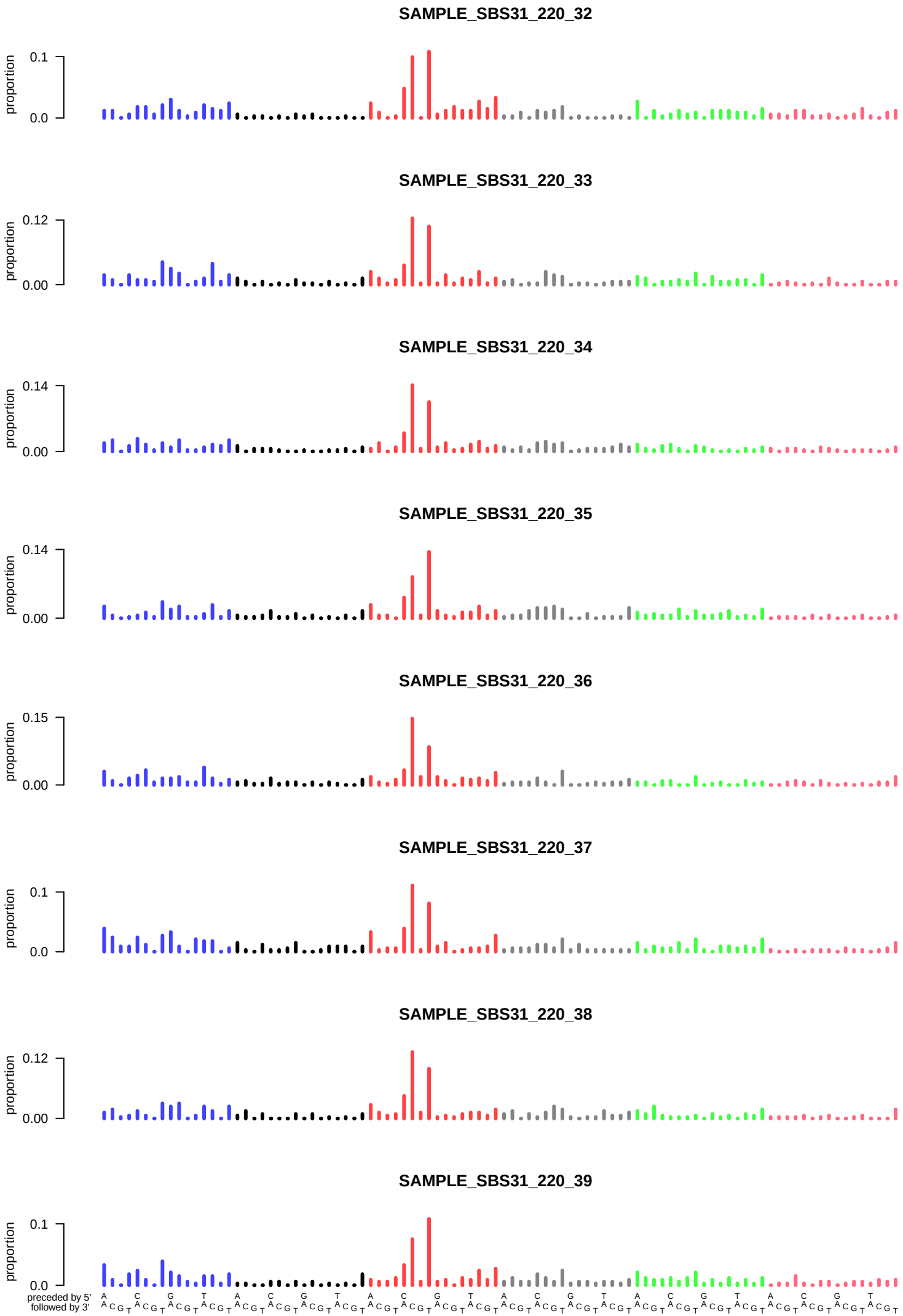
followed by 3'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SAMPLE_SBS31_220_35
proportion
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SAMPLE_SBS31_220_36
proportion
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SAMPLE_SBS31_220_37
proportion
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SAMPLE_SBS31_220_38
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SAMPLE_SBS31_220_39
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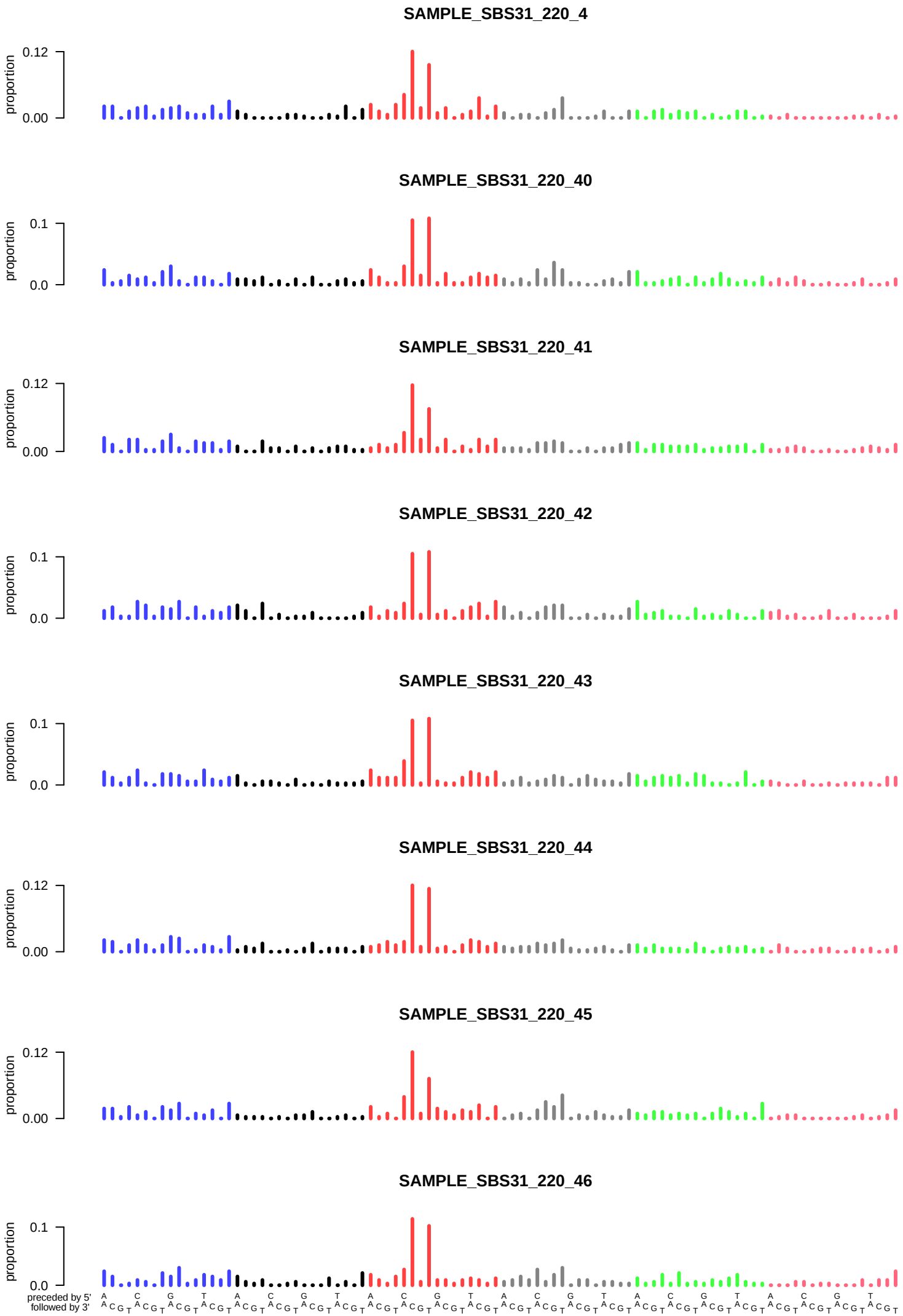
preceded by 5'
followed by 3'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SAMPLE_SBS31_220_42
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SAMPLE_SBS31_220_43
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SAMPLE_SBS31_220_44
proportion
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SAMPLE_SBS31_220_45
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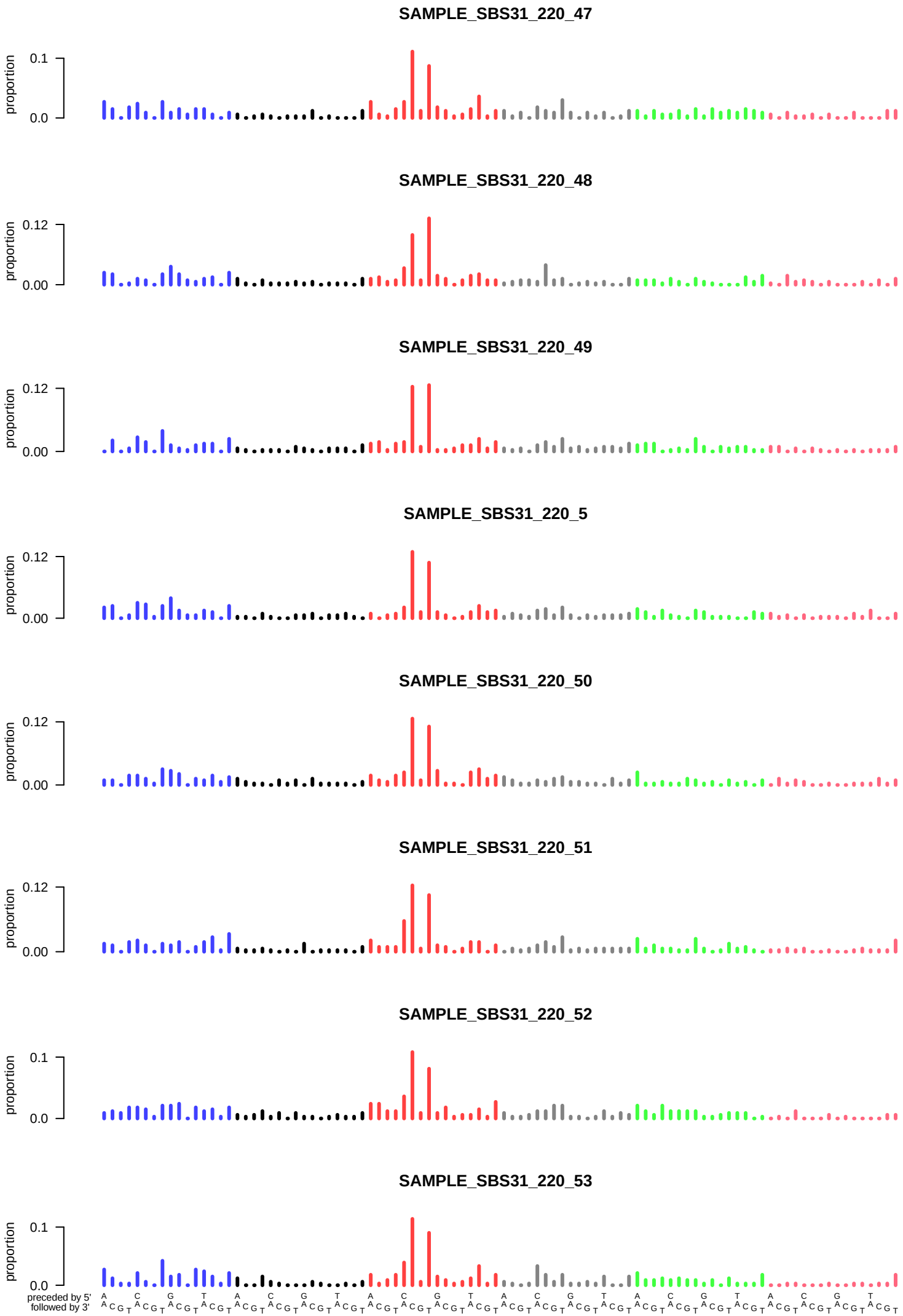
preceded by 5'
followed by 3'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SAMPLE_SBS31_220_5
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SAMPLE_SBS31_220_50
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SAMPLE_SBS31_220_51
proportion
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SAMPLE_SBS31_220_52
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SAMPLE_SBS31_220_53
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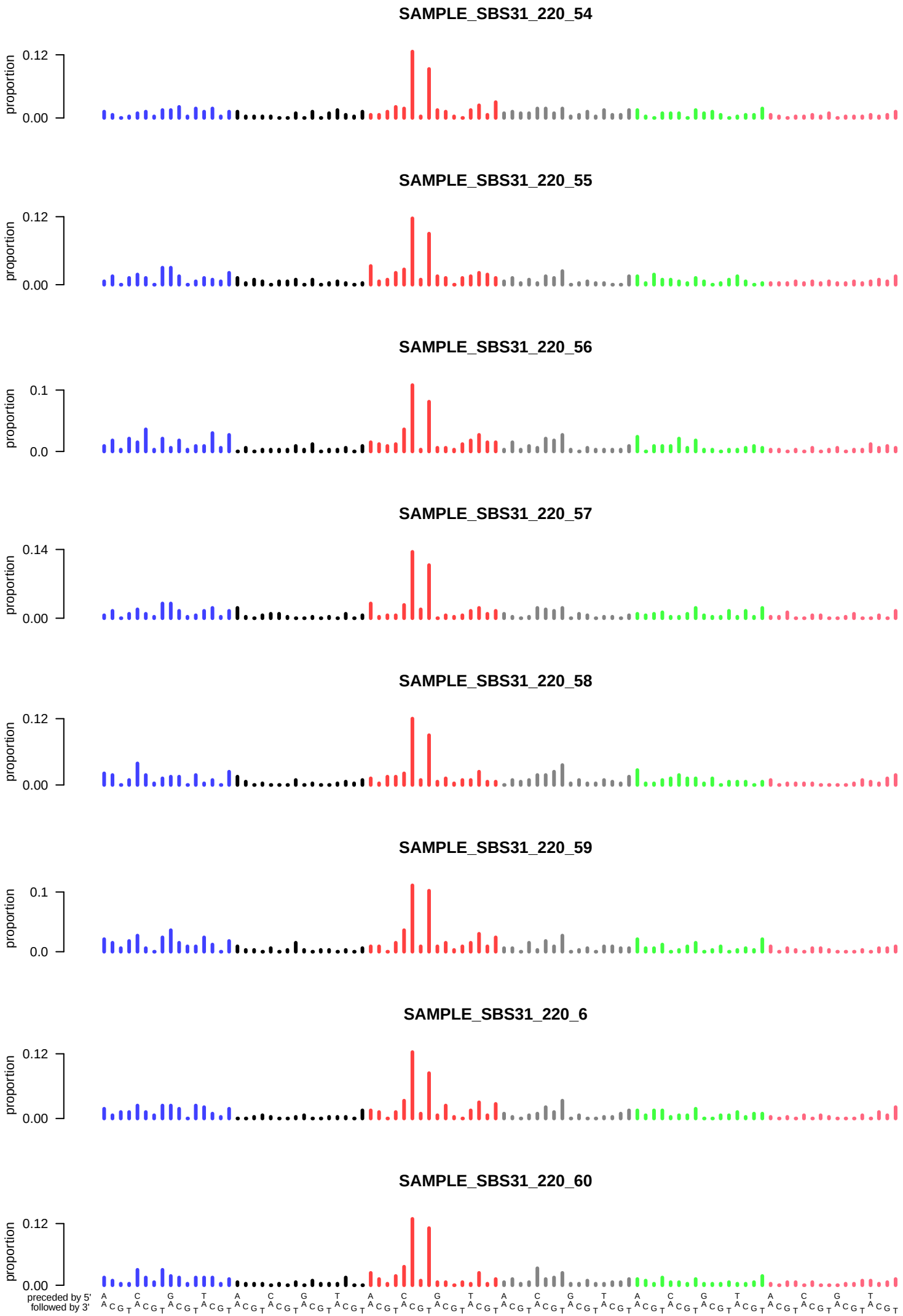
preceded by 5'
followed by 3'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SAMPLE_SBS31_220_59
proportion
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SAMPLE_SBS31_220_6
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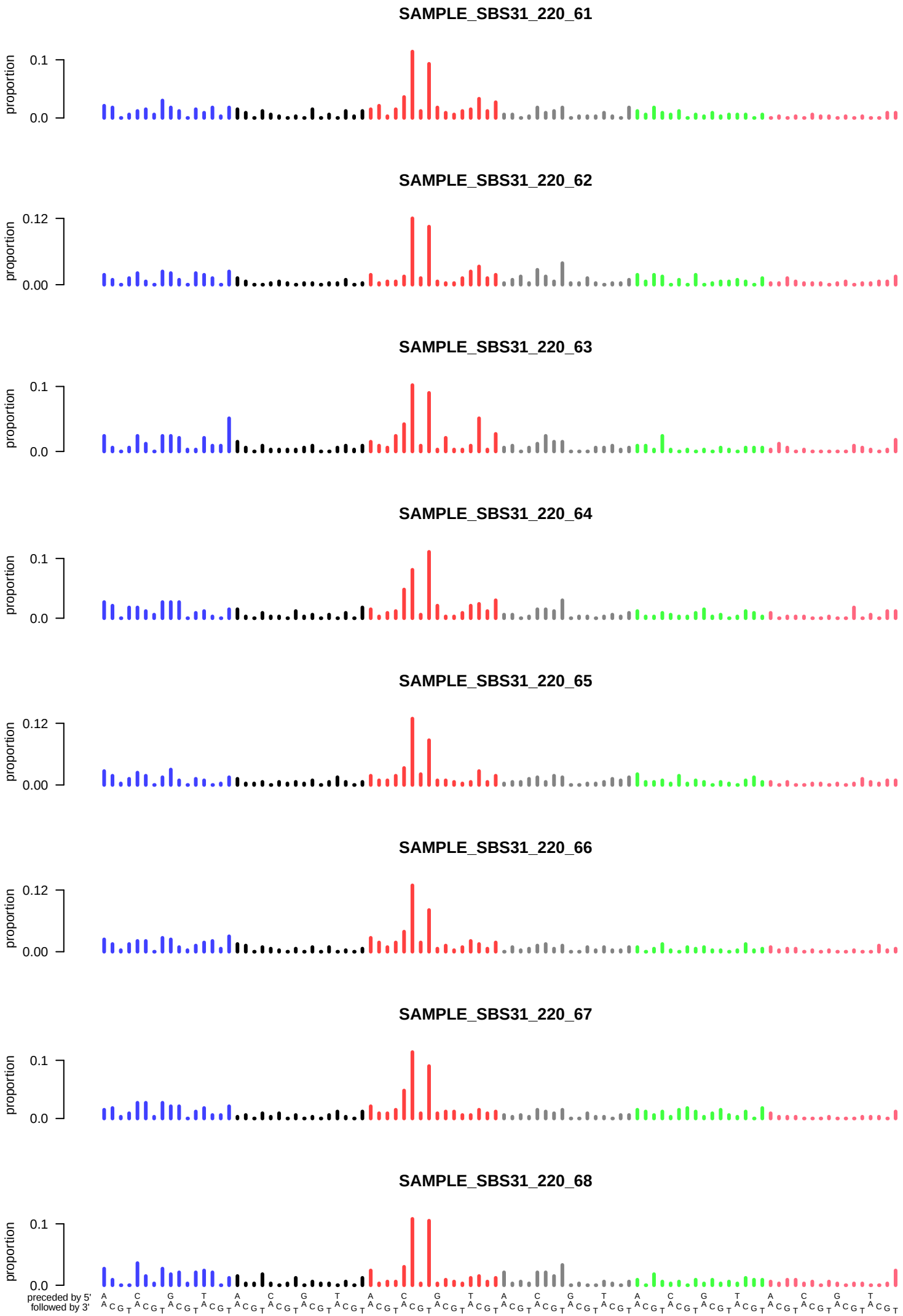
followed by 3'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SAMPLE_SBS31_220_66
proportion
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SAMPLE_SBS31_220_67
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SAMPLE_SBS31_220_68
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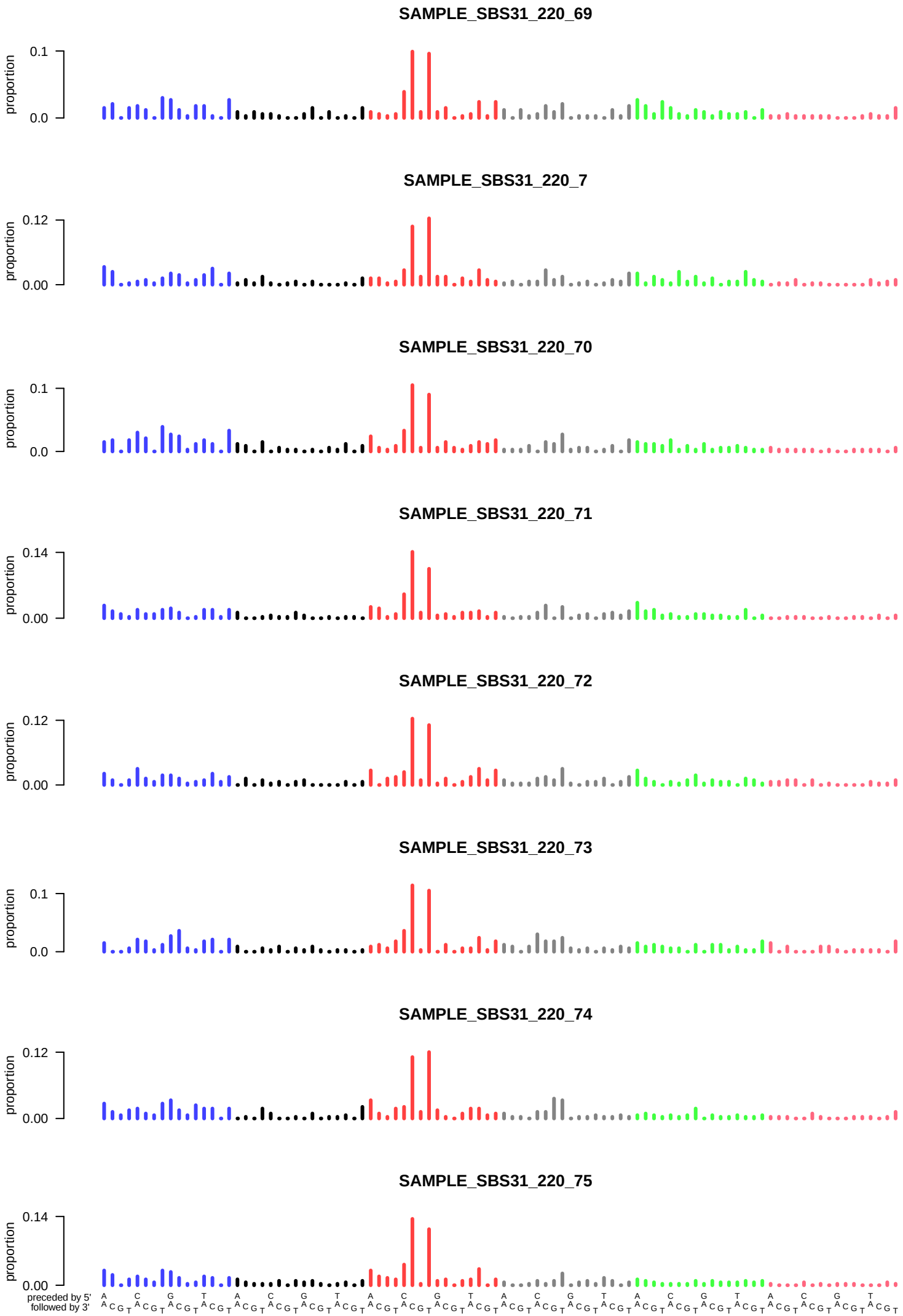
preceded by 5'
followed by 3'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SAMPLE_SBS31_220_74
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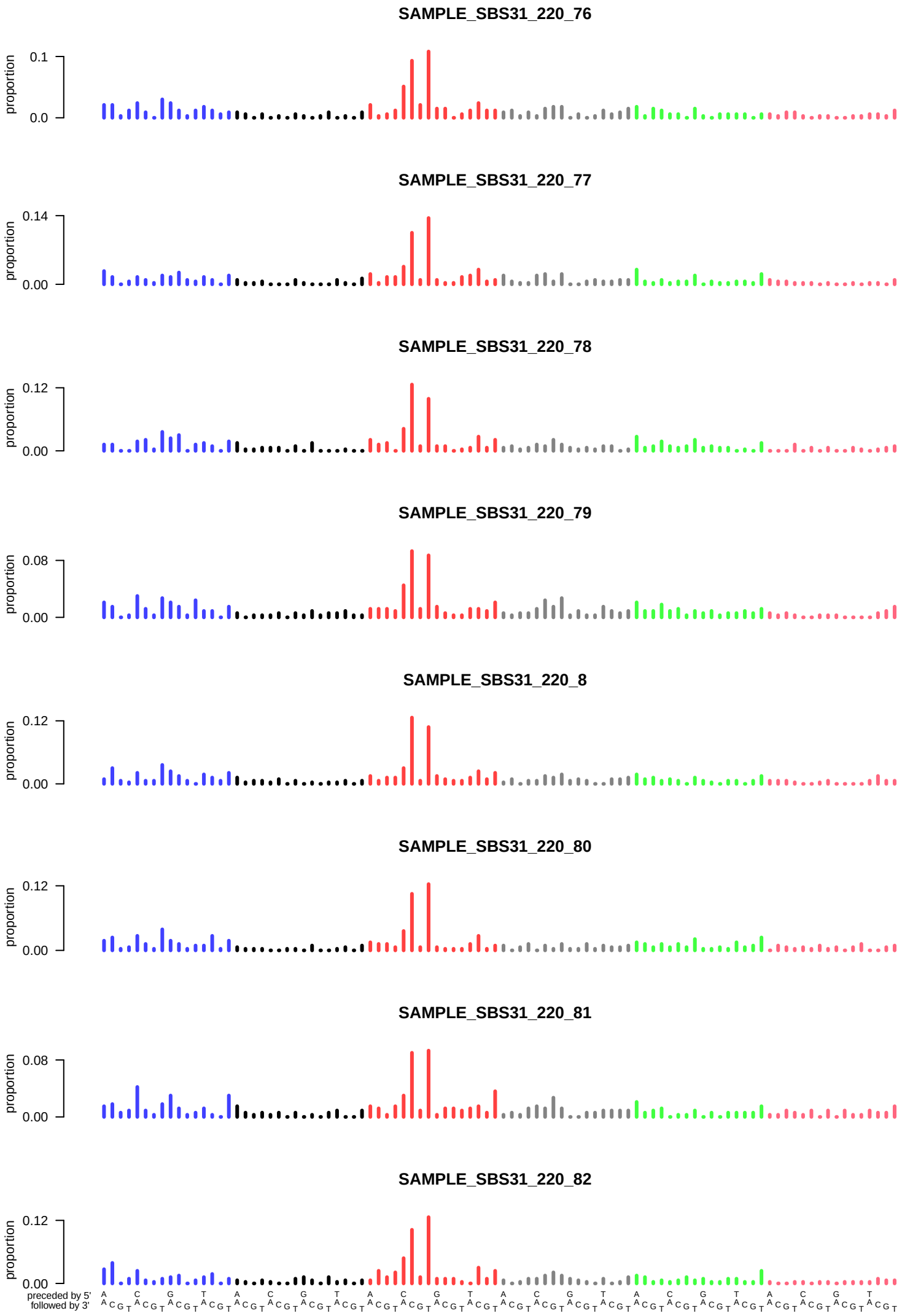
followed by 3'
A C G T A C G T A C G T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SAMPLE_SBS31_220_8
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SAMPLE_SBS31_220_80
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SAMPLE_SBS31_220_81
proportion
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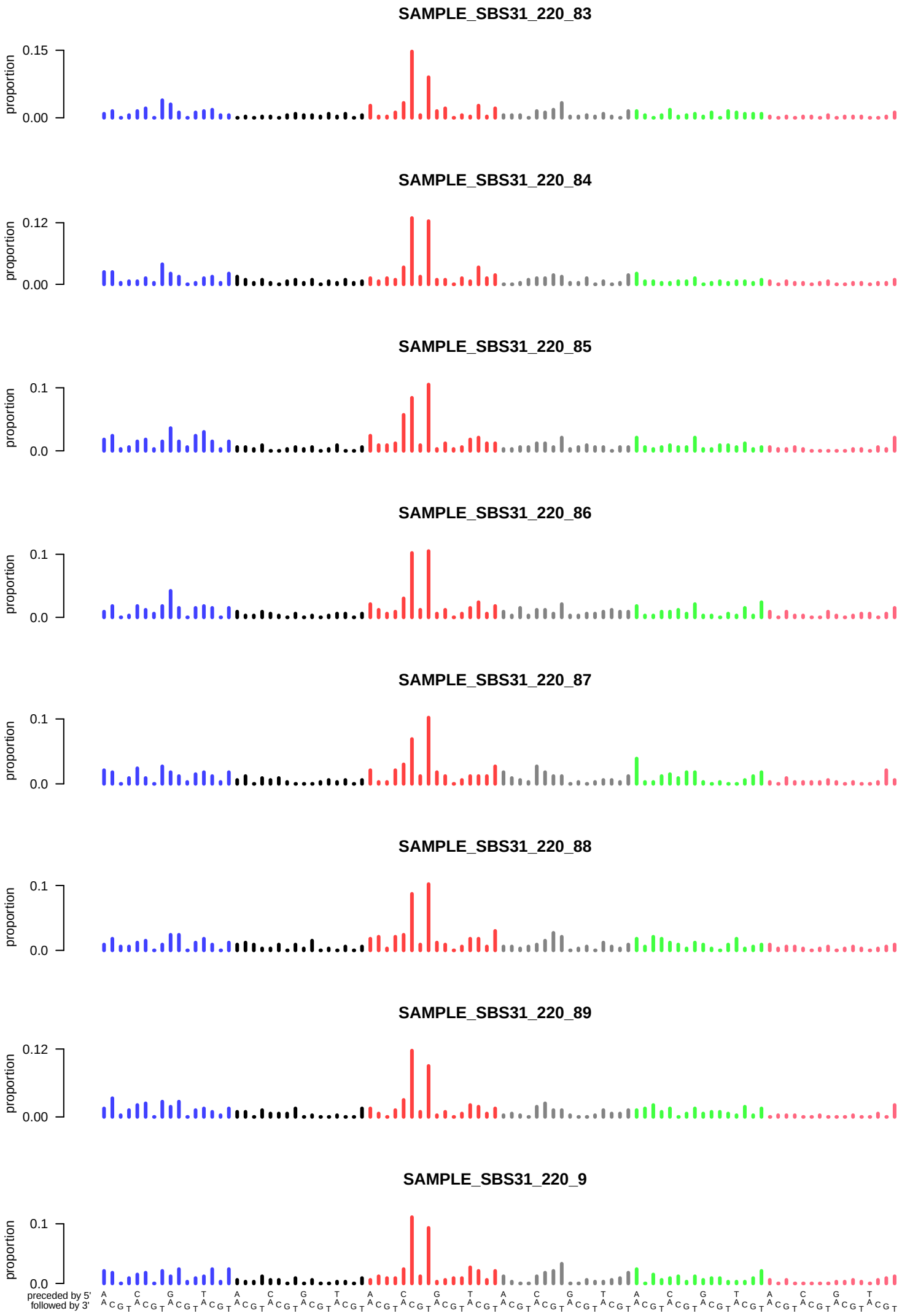
followed by 3'
A C G T A C G T A C G T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SAMPLE_SBS31_220_89
proportion
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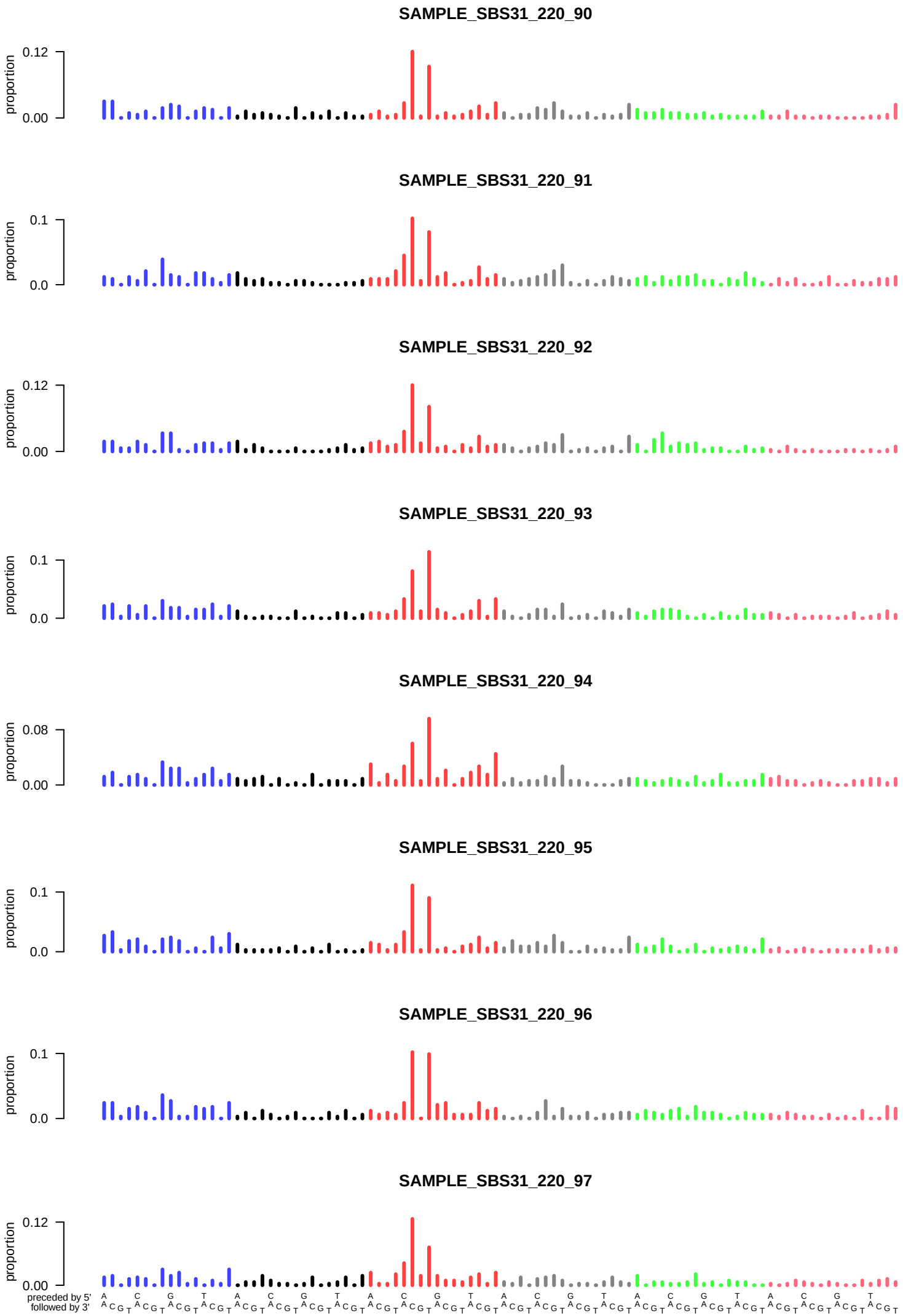
preceded by 5'
followed by 3'
A C G T A C G T A C G T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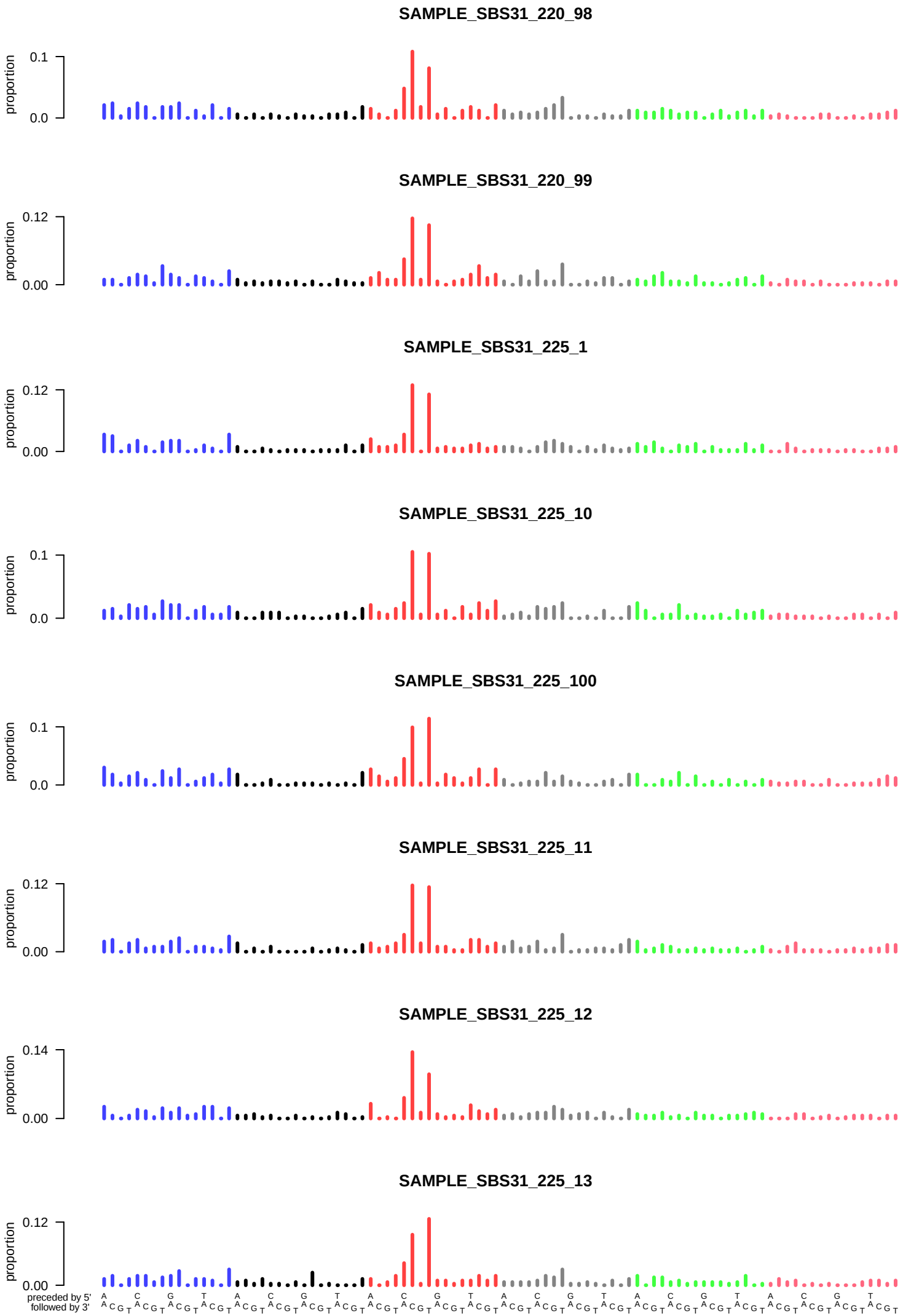
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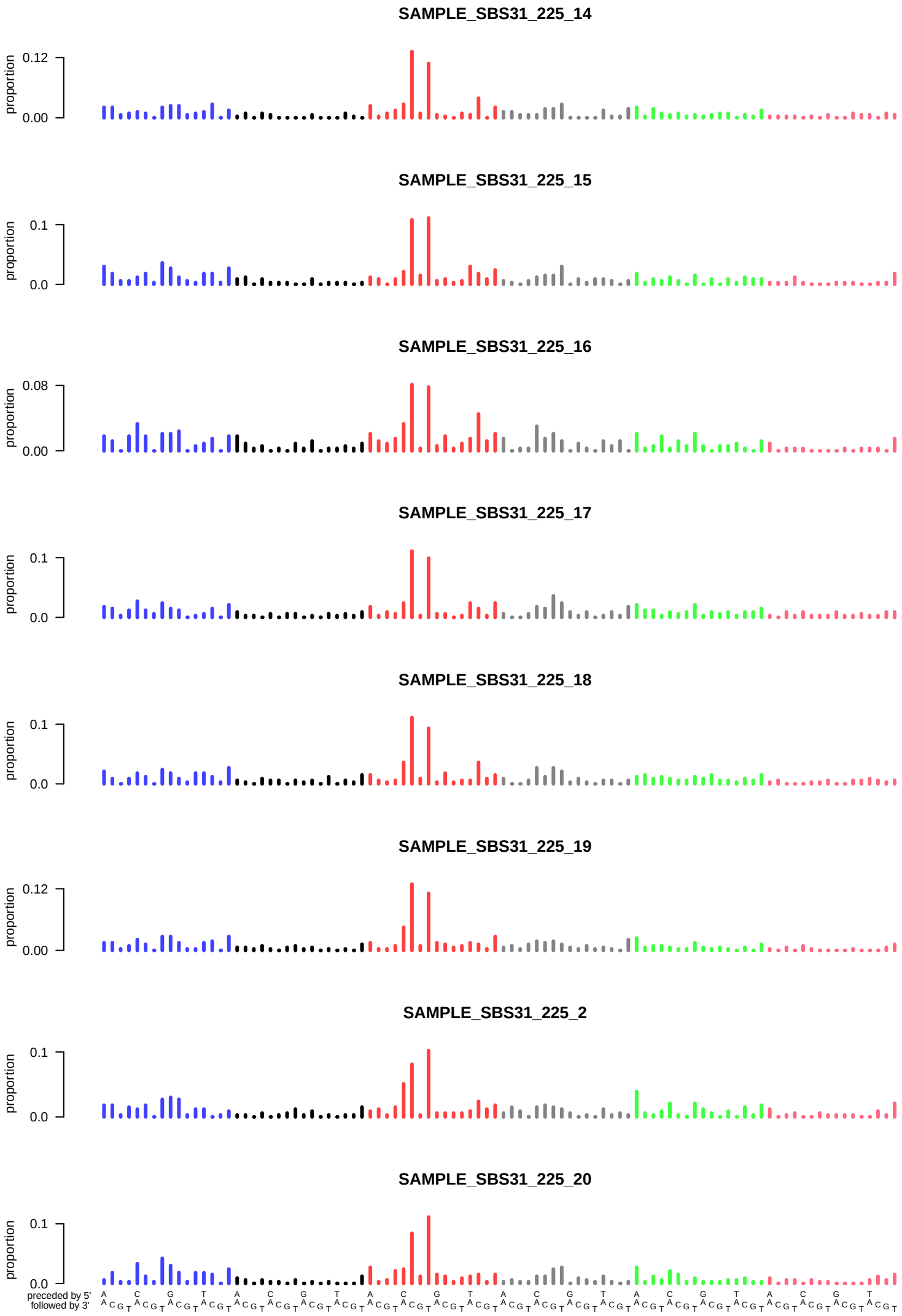
followed by 3'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SAMPLE_SBS31_225_2
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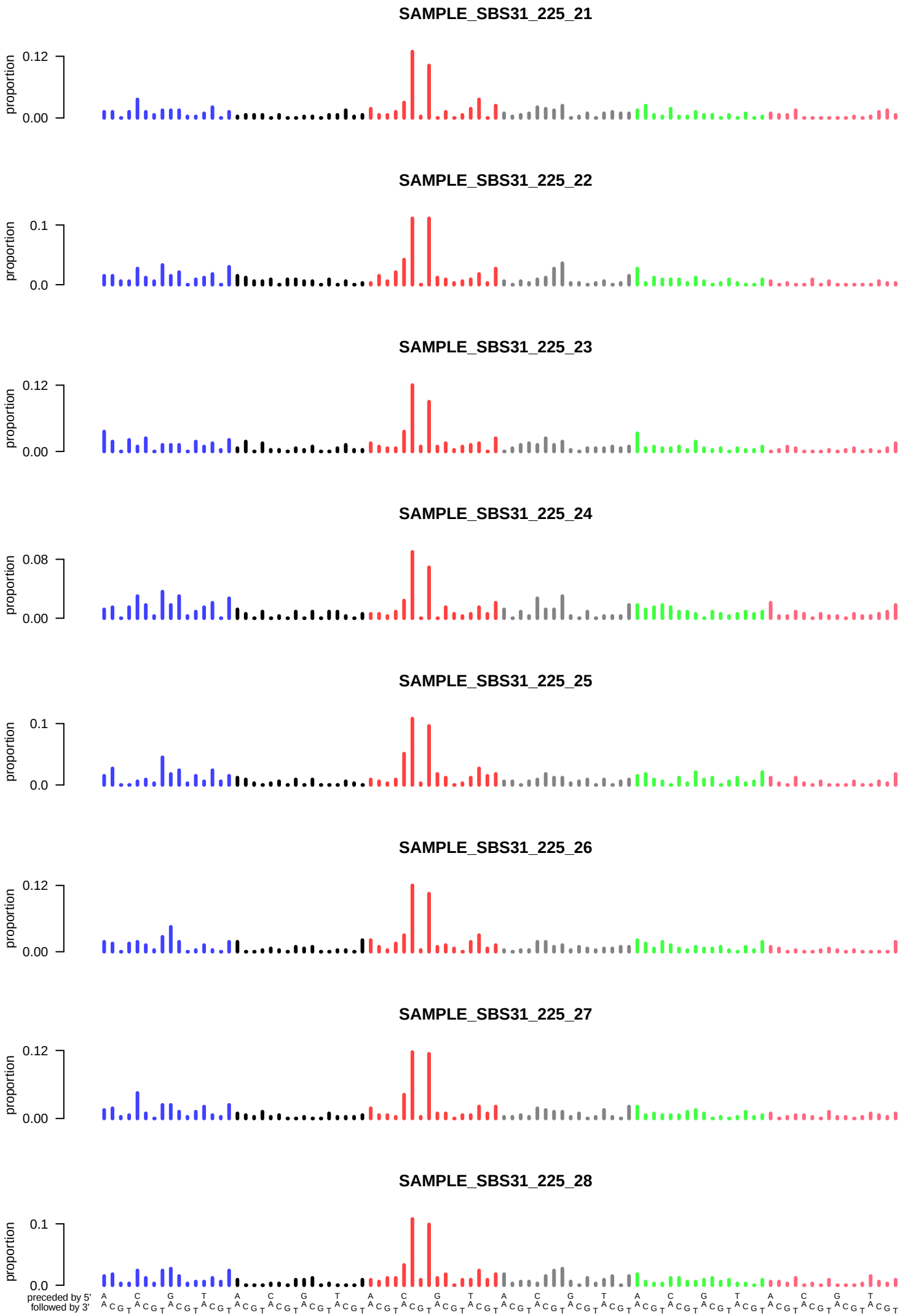
followed by 3'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SAMPLE_SBS31_225_26
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SAMPLE_SBS31_225_27
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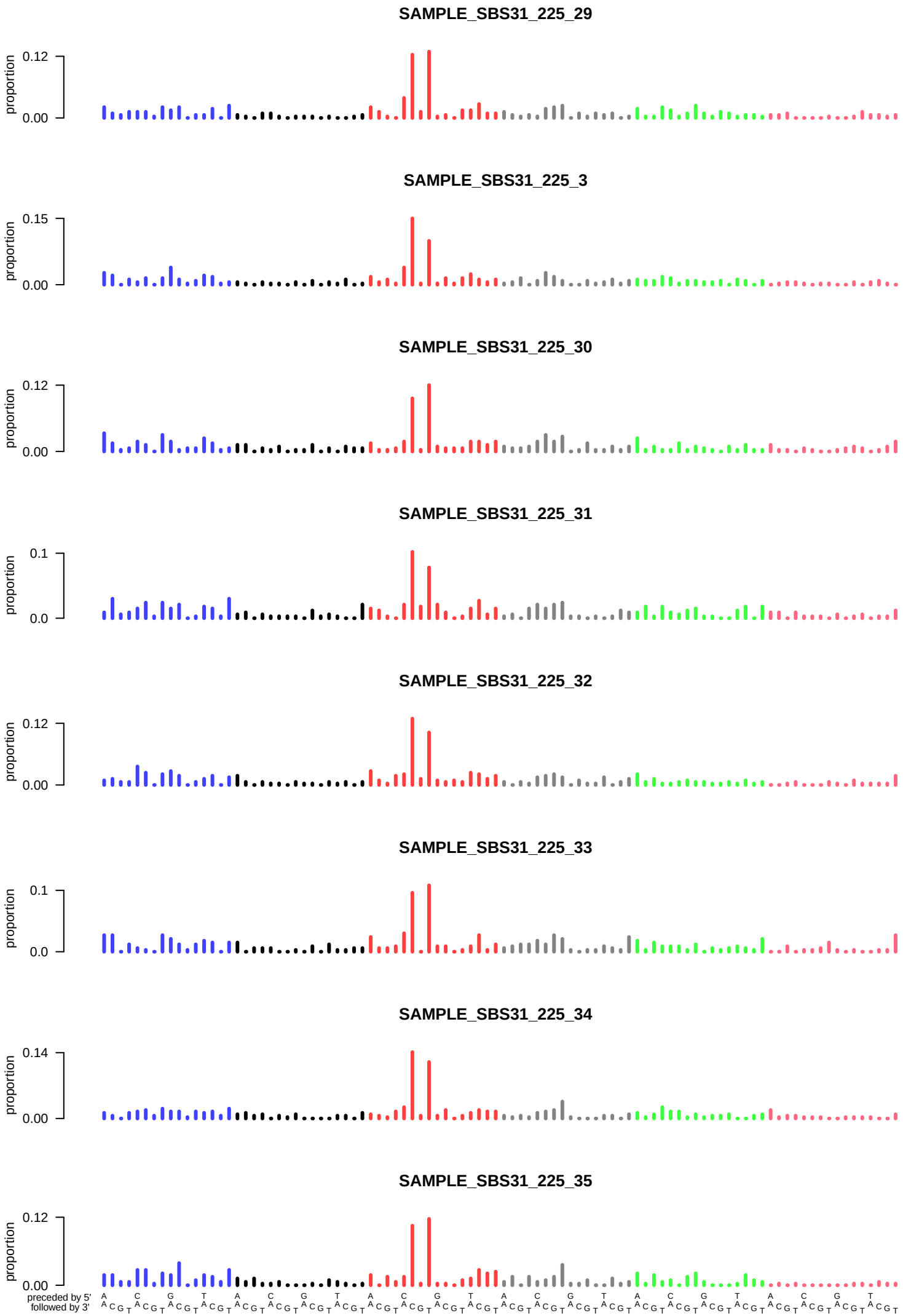
followed by 3'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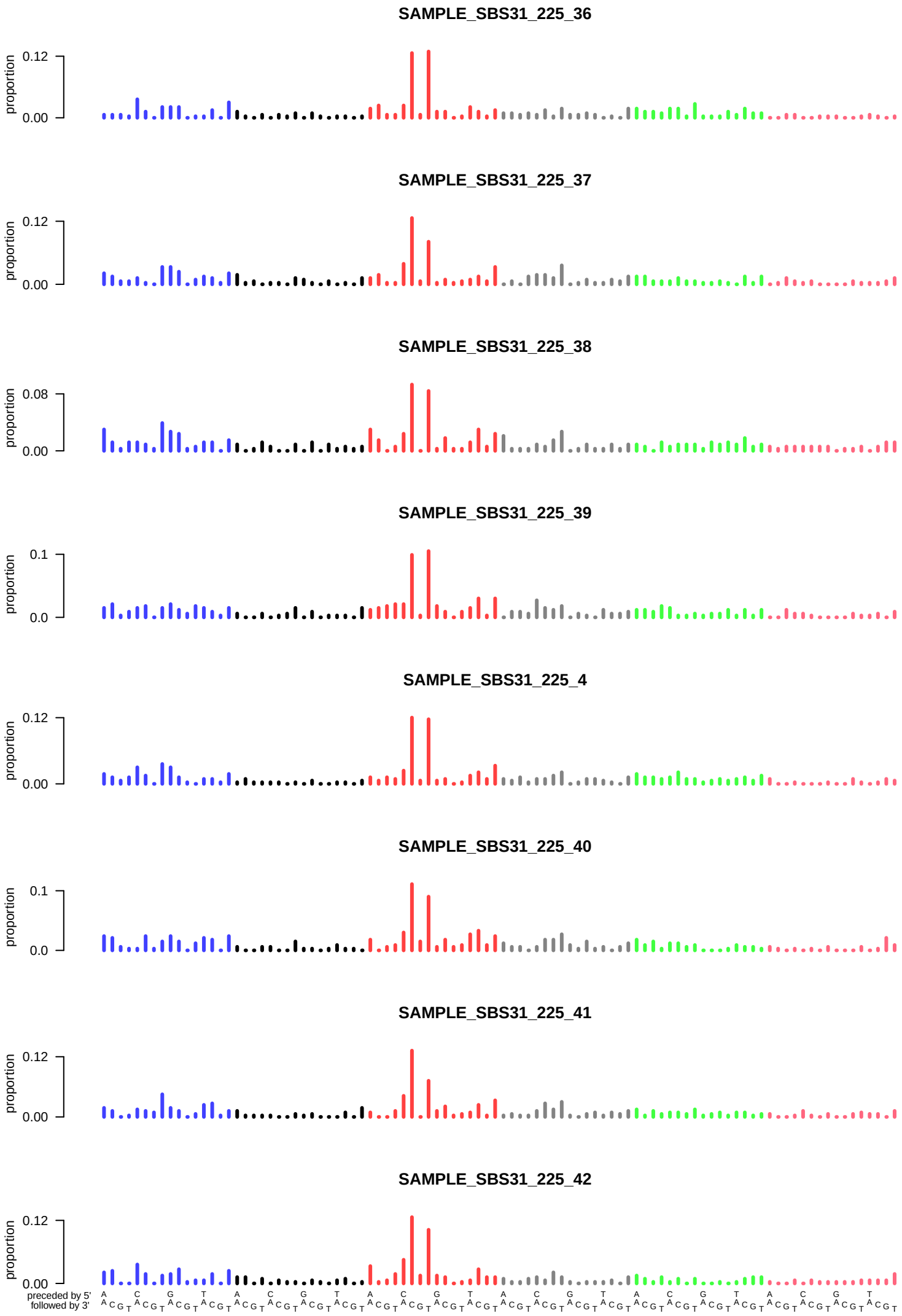
followed by 3'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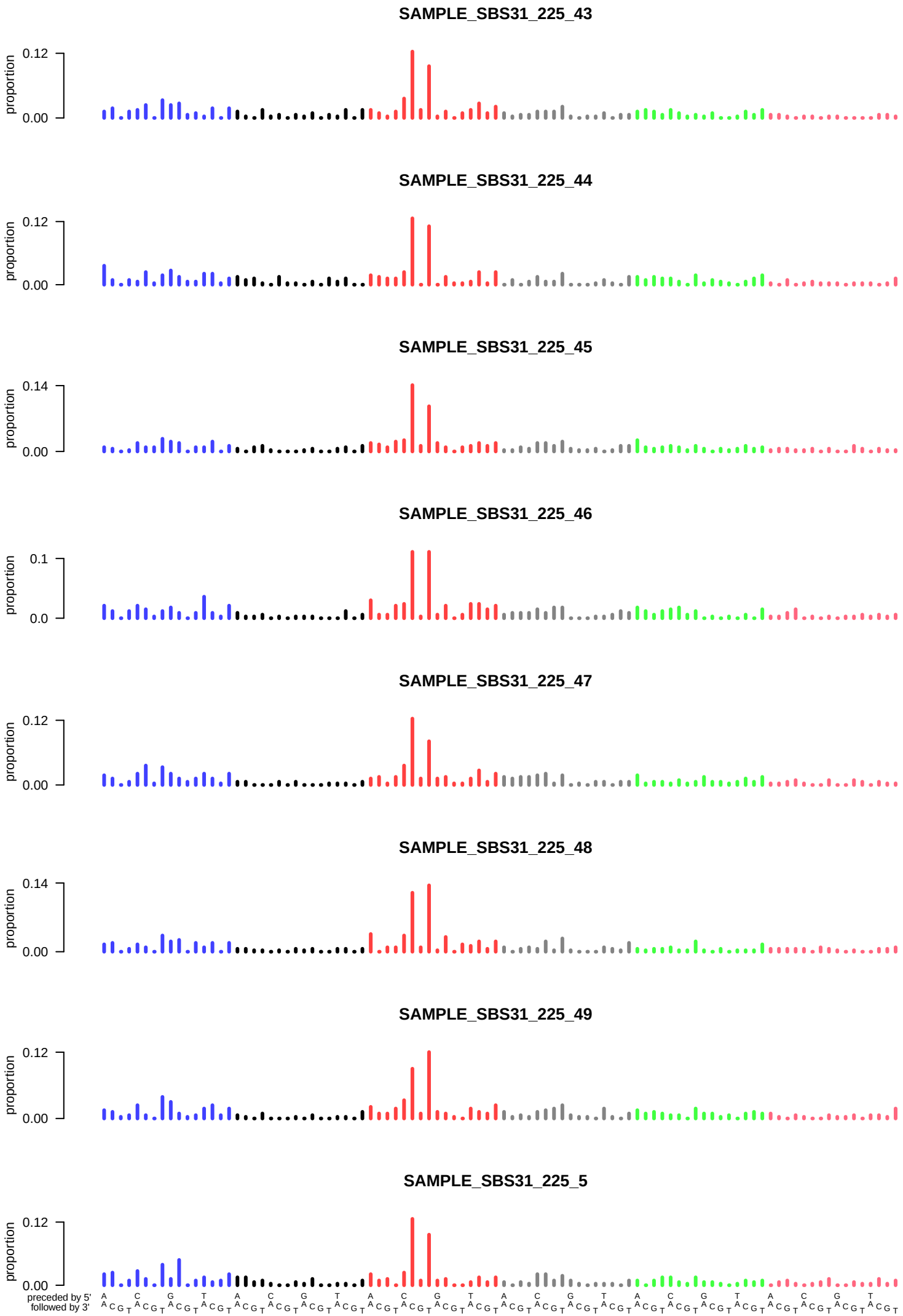
followed by 3'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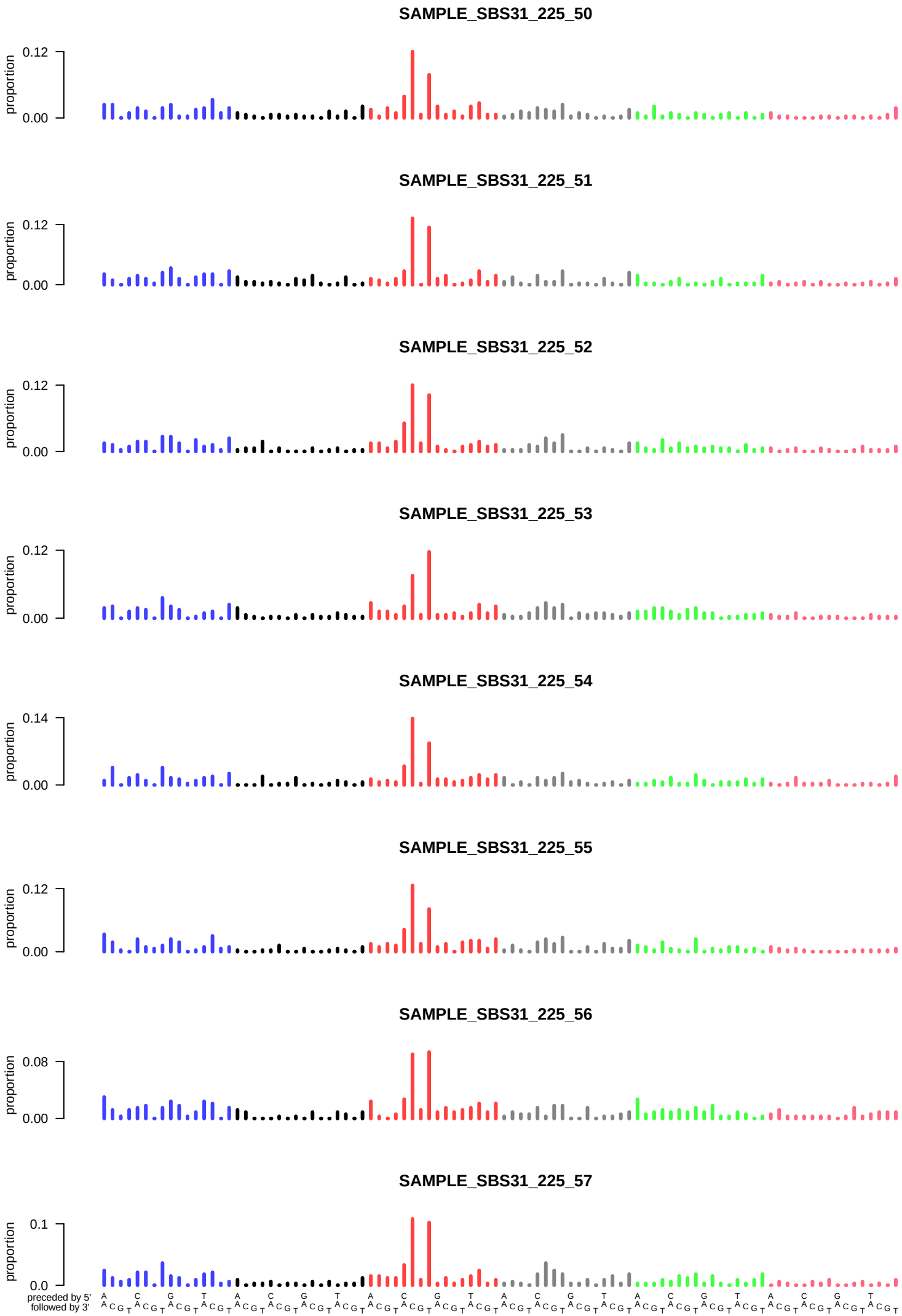
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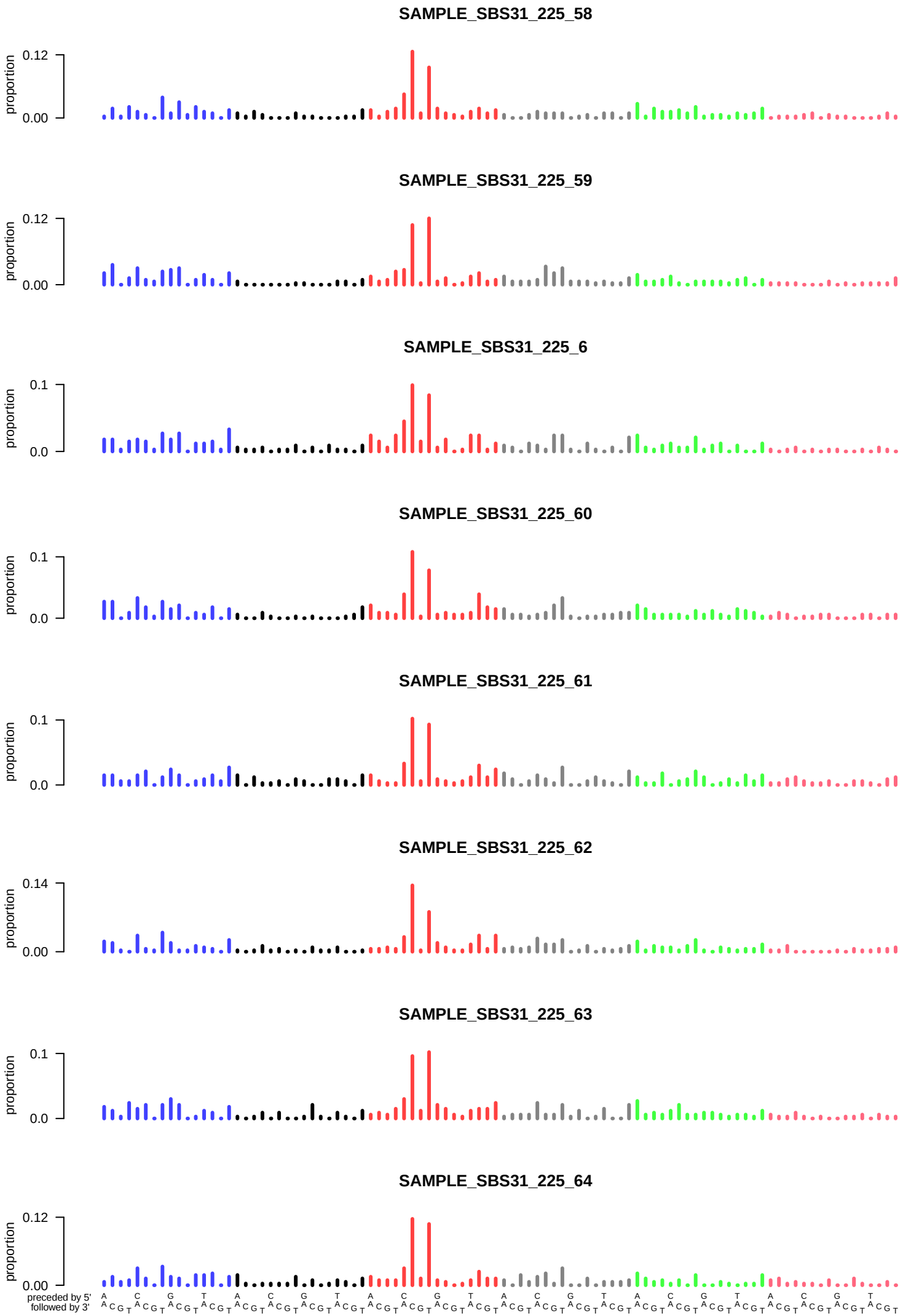
followed by 3'
A C G T A C G T A C G T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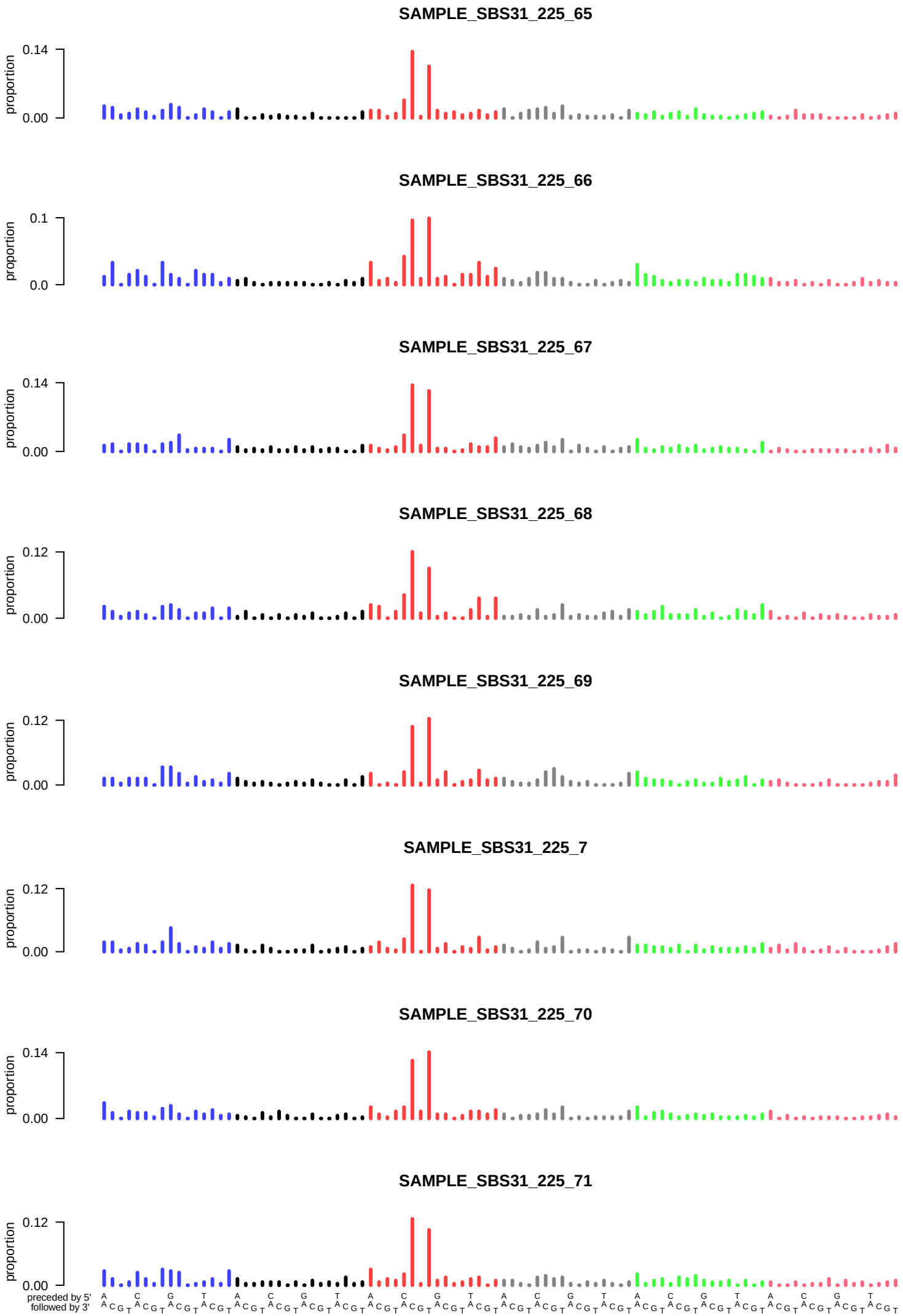
followed by 3'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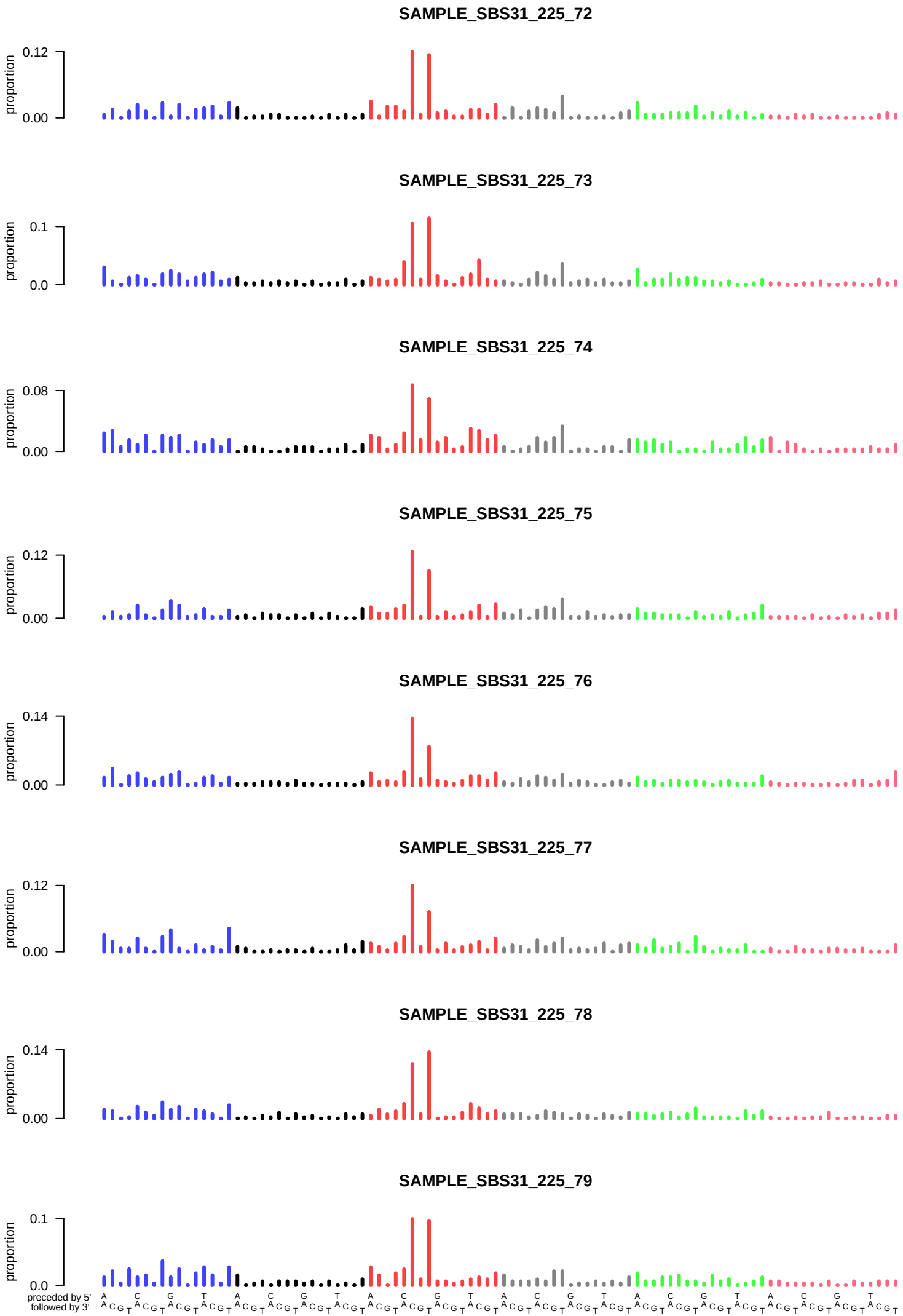
followed by 3'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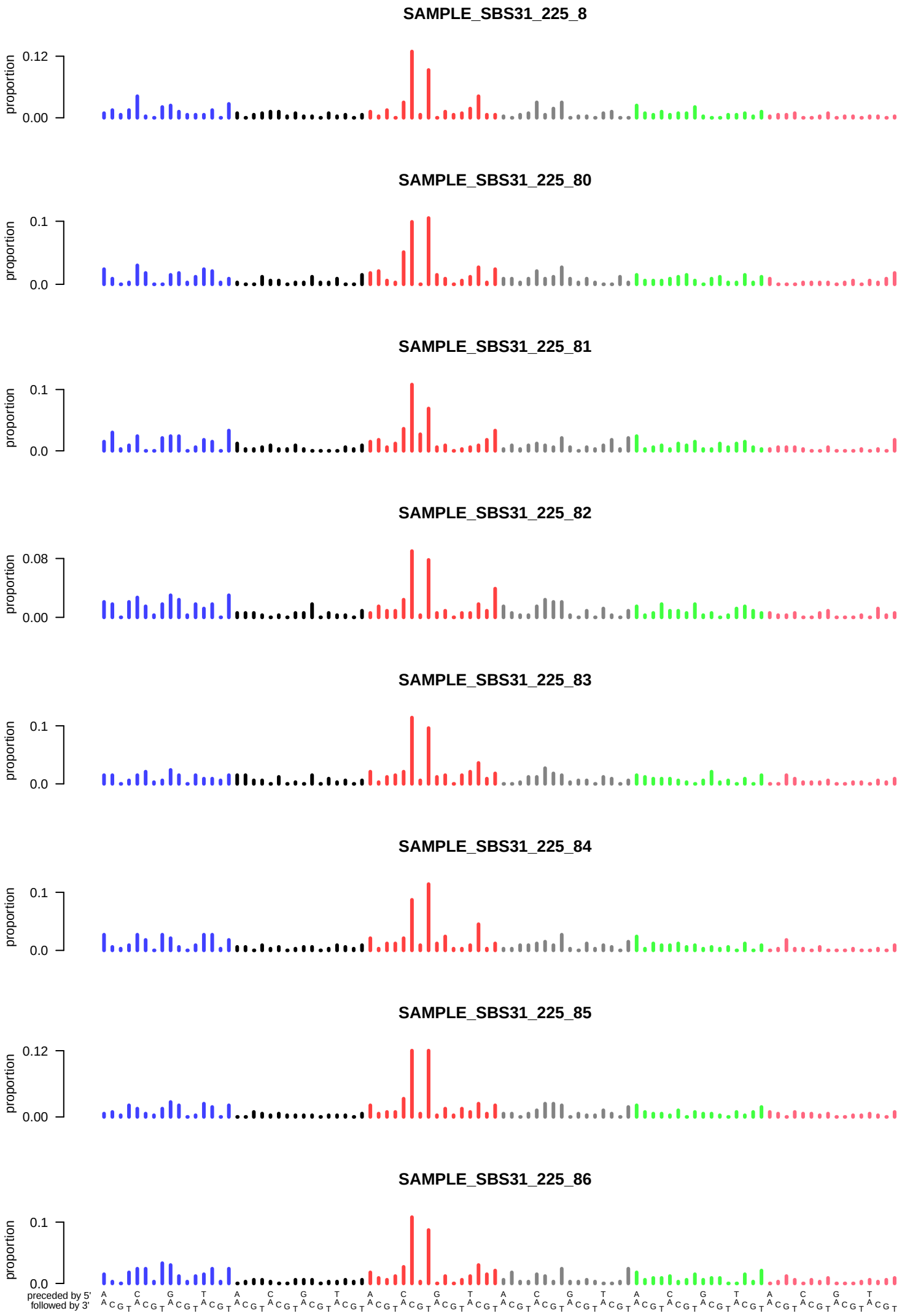
followed by 3'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SAMPLE_SBS31_225_85
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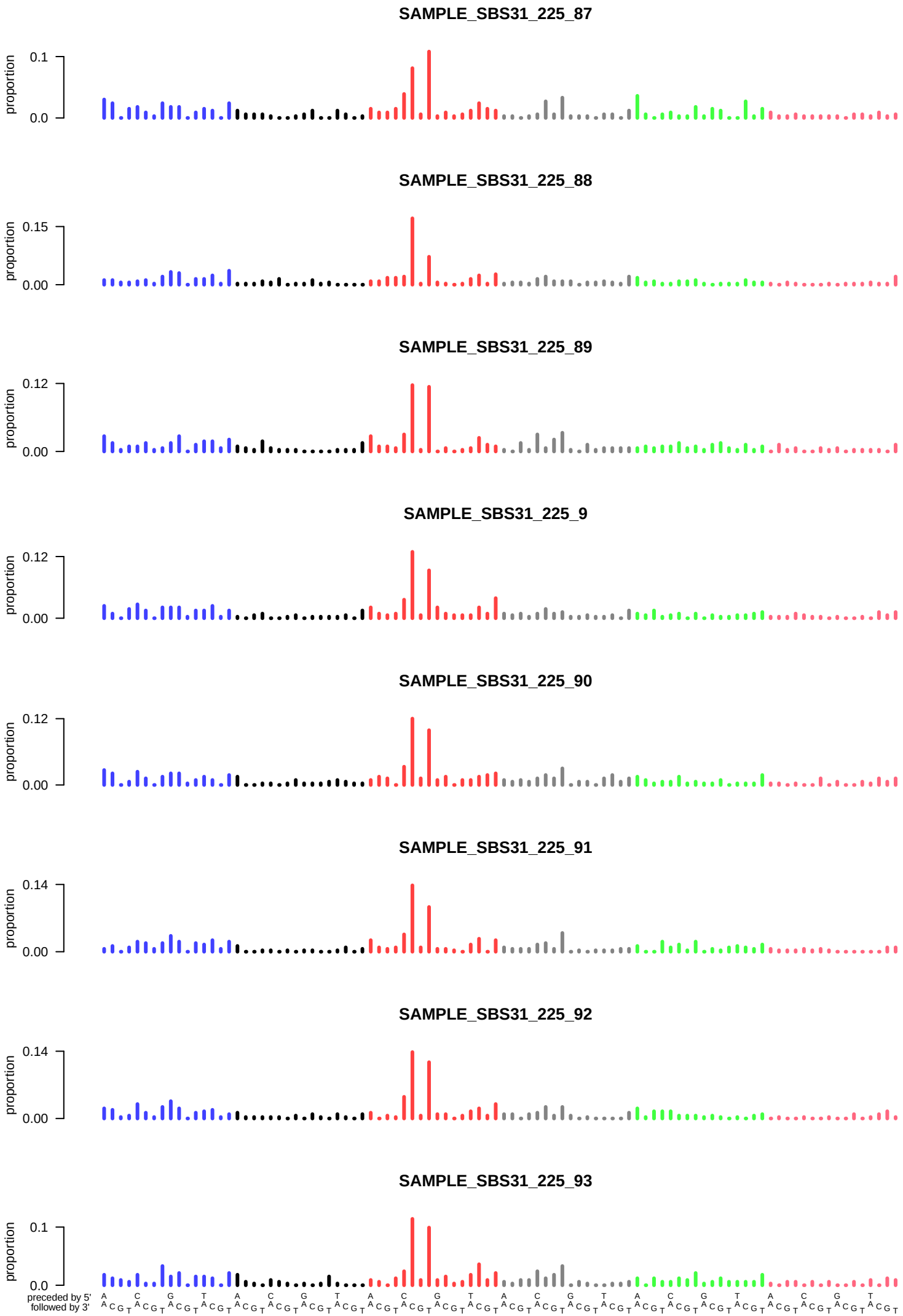
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SAMPLE_SBS31_225_91
proportion
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SAMPLE_SBS31_225_92
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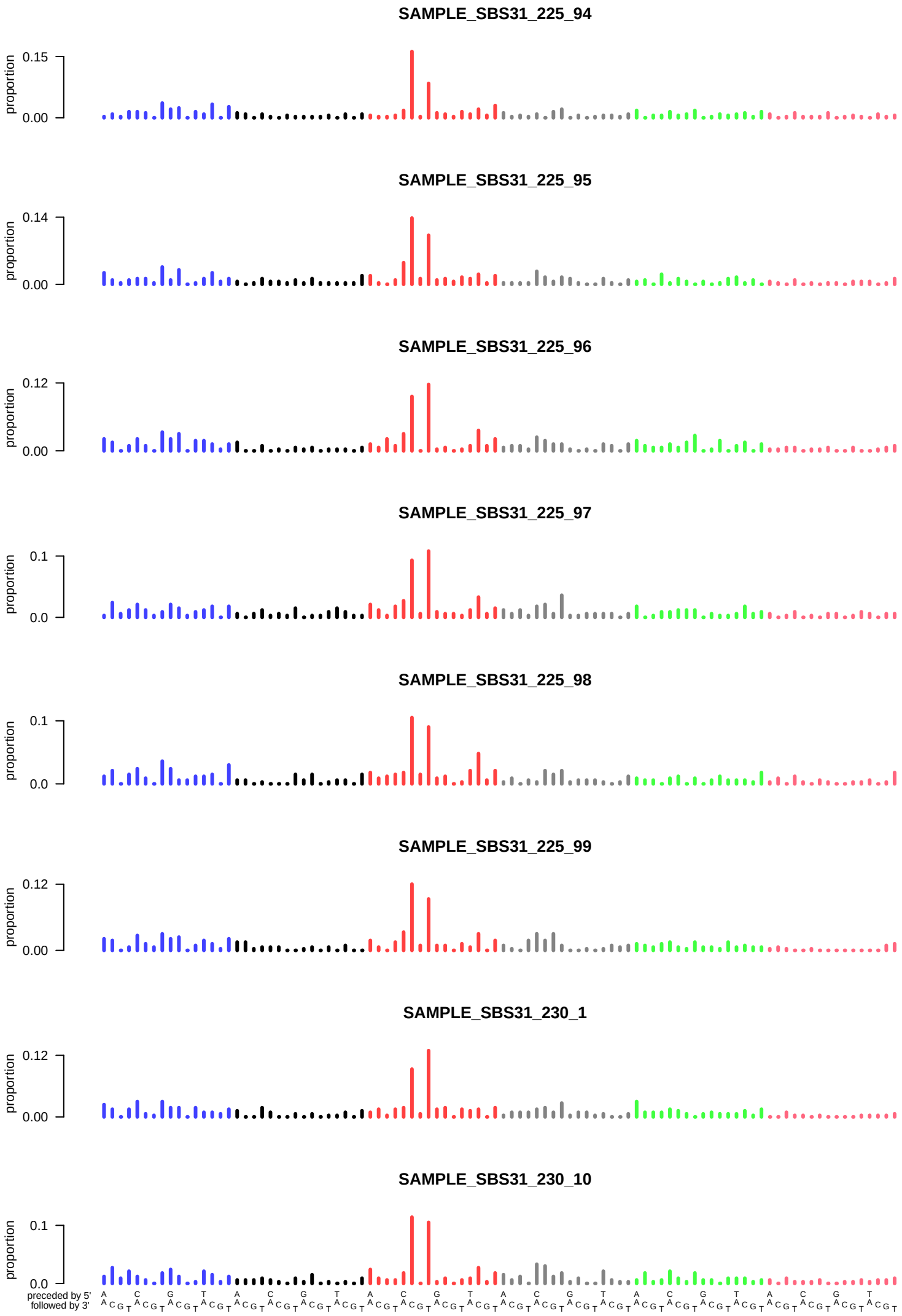
followed by 3'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SAMPLE_SBS31_225_97
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SAMPLE_SBS31_225_99
proportion
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SAMPLE_SBS31_230_1
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SAMPLE_SBS31_230_10
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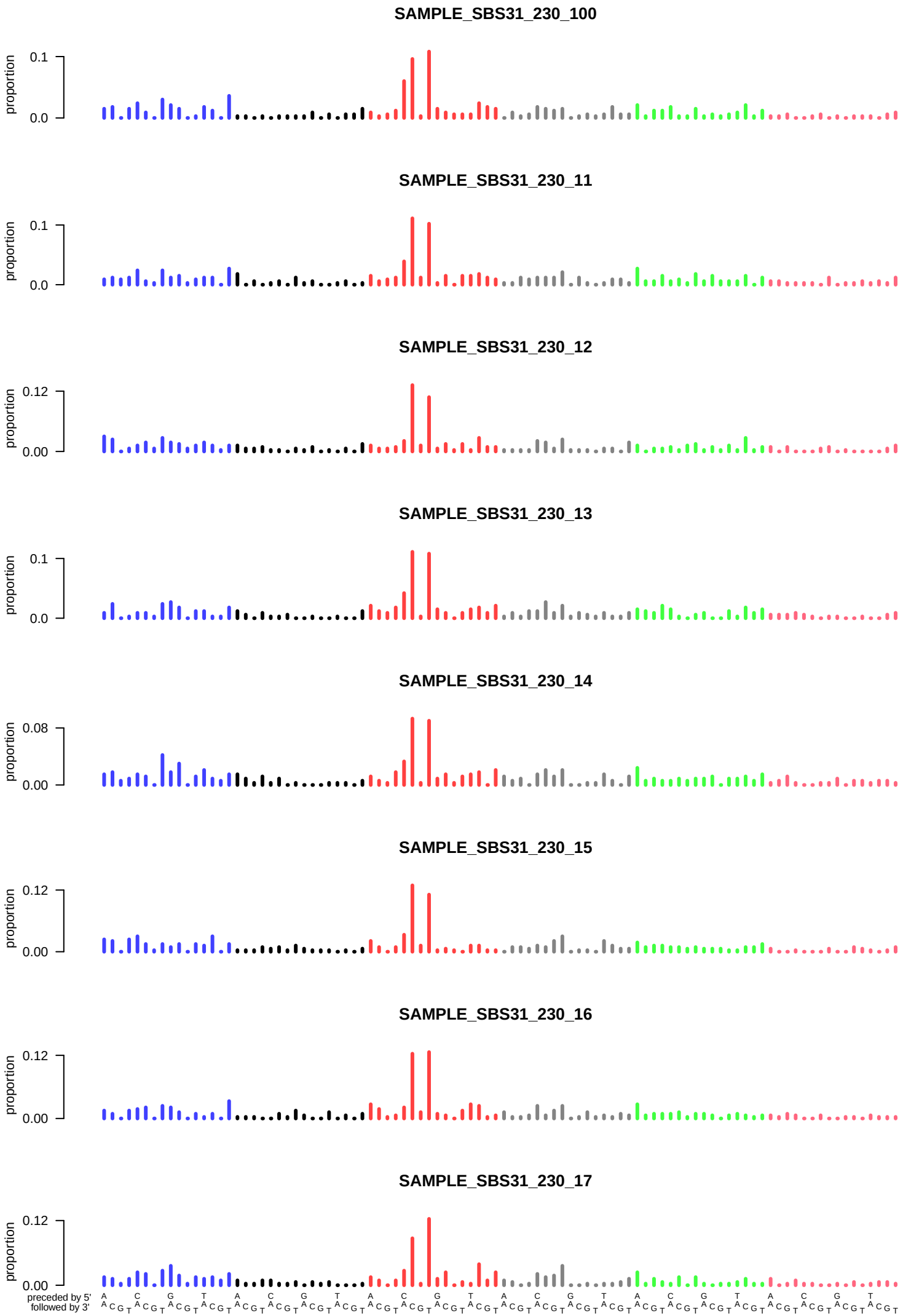
followed by 3'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SAMPLE_SBS31_230_15
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SAMPLE_SBS31_230_16
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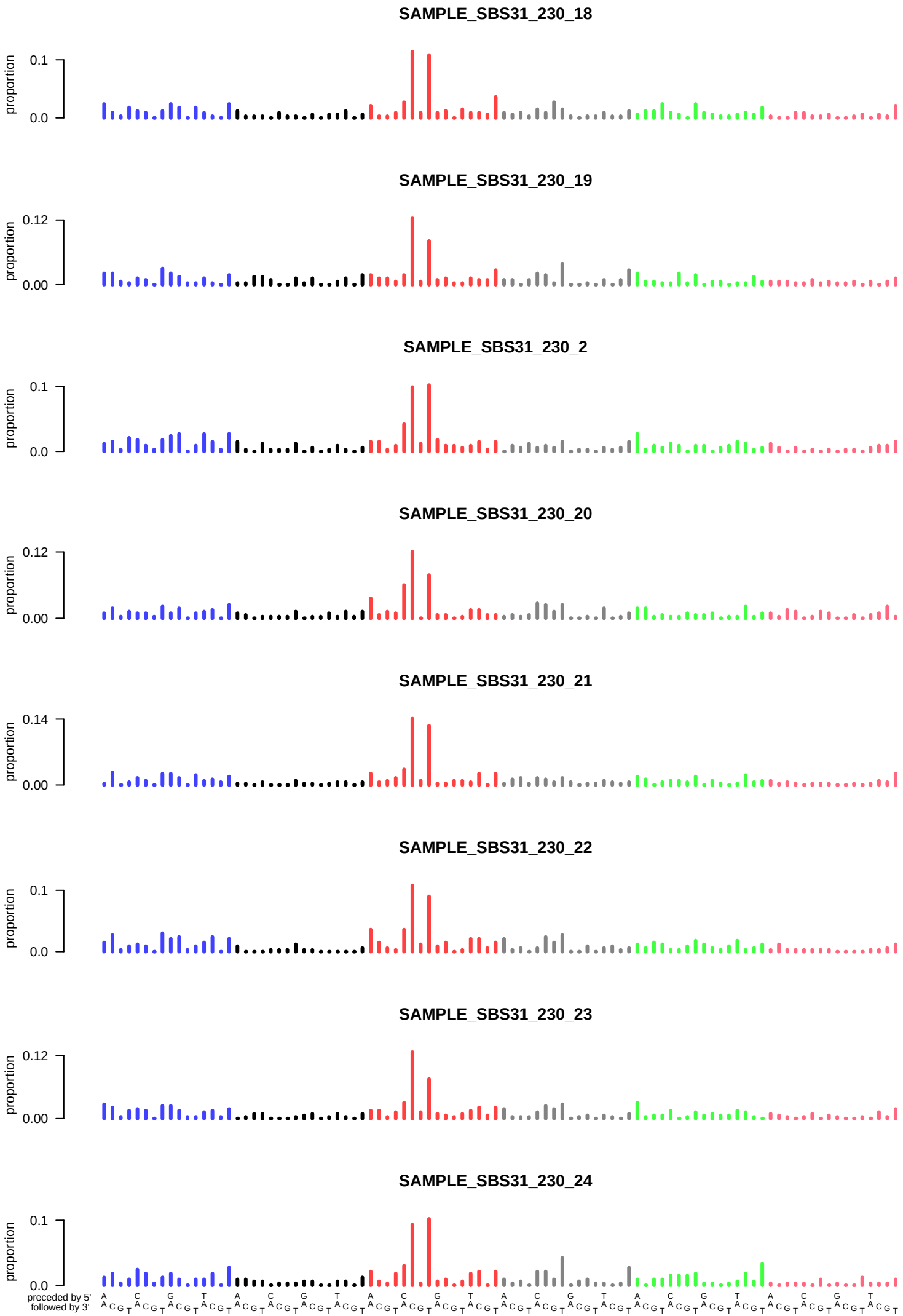
followed by 3'
A C G T A C G T A C G T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proportion
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SAMPLE_SBS31_230_21
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SAMPLE_SBS31_230_22
proportion
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SAMPLE_SBS31_230_23
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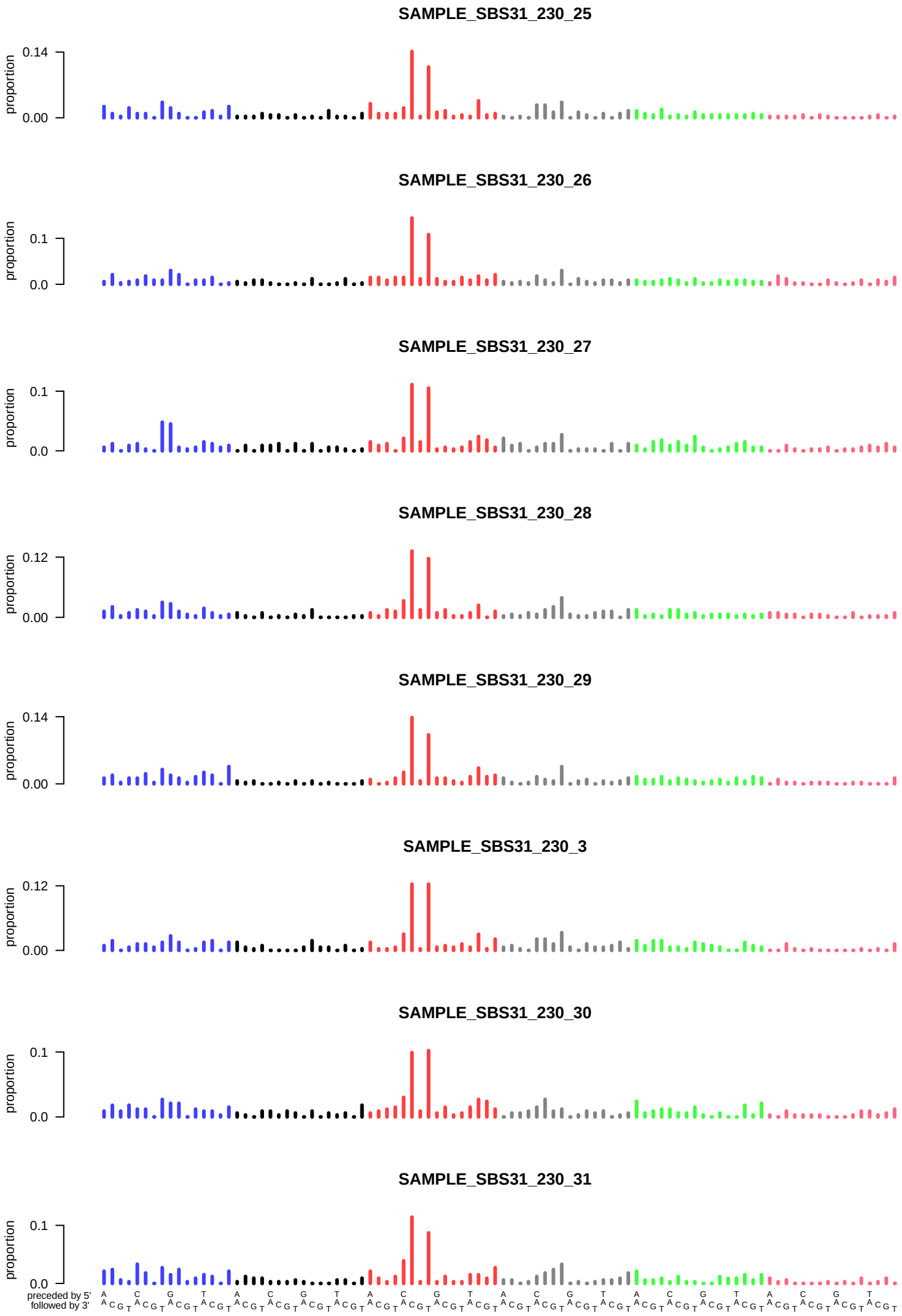
followed by 3'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SAMPLE_SBS31_230_28
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SAMPLE_SBS31_230_30
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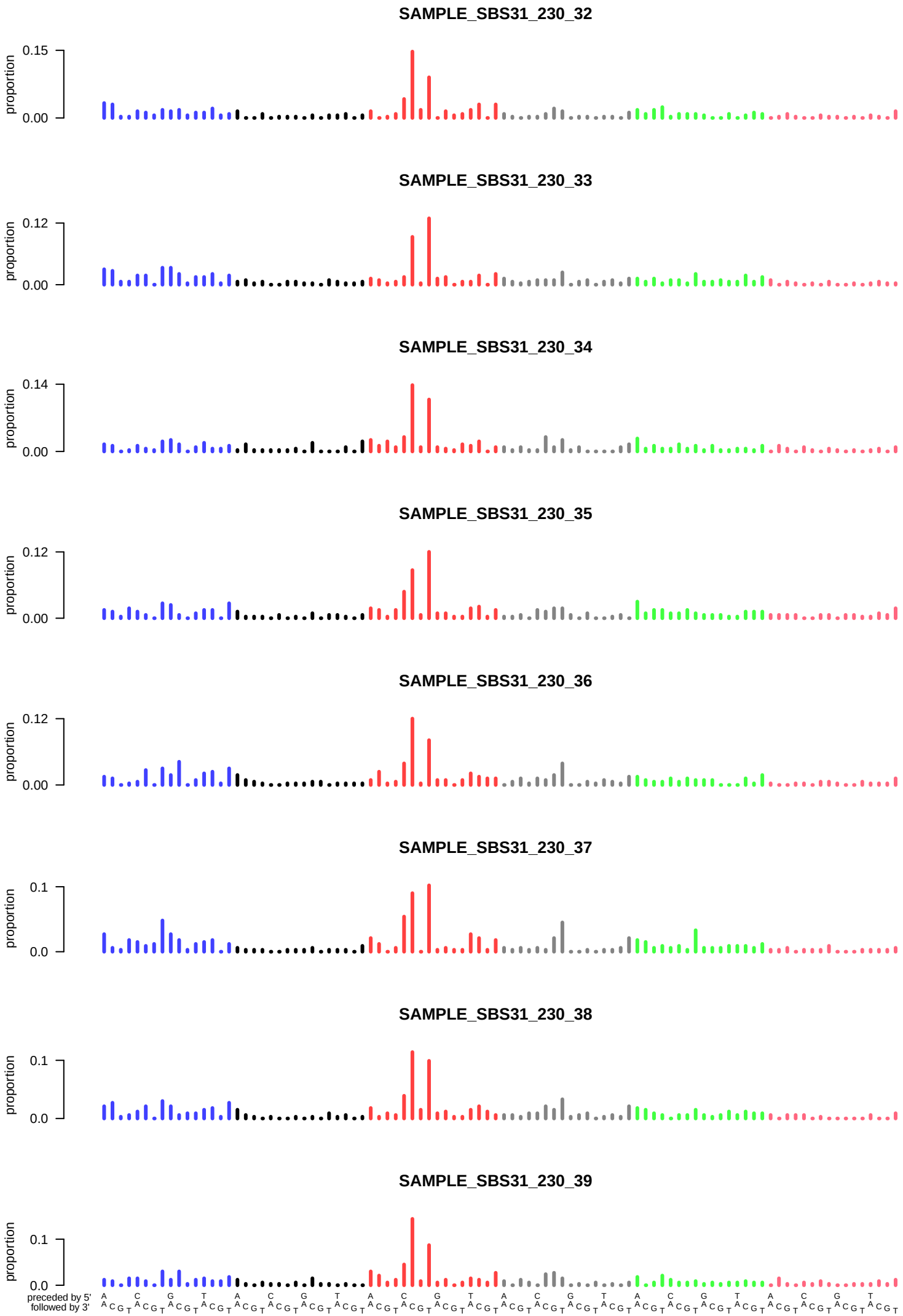
followed by 3'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SAMPLE_SBS31_230_37
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SAMPLE_SBS31_230_38
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SAMPLE_SBS31_230_39
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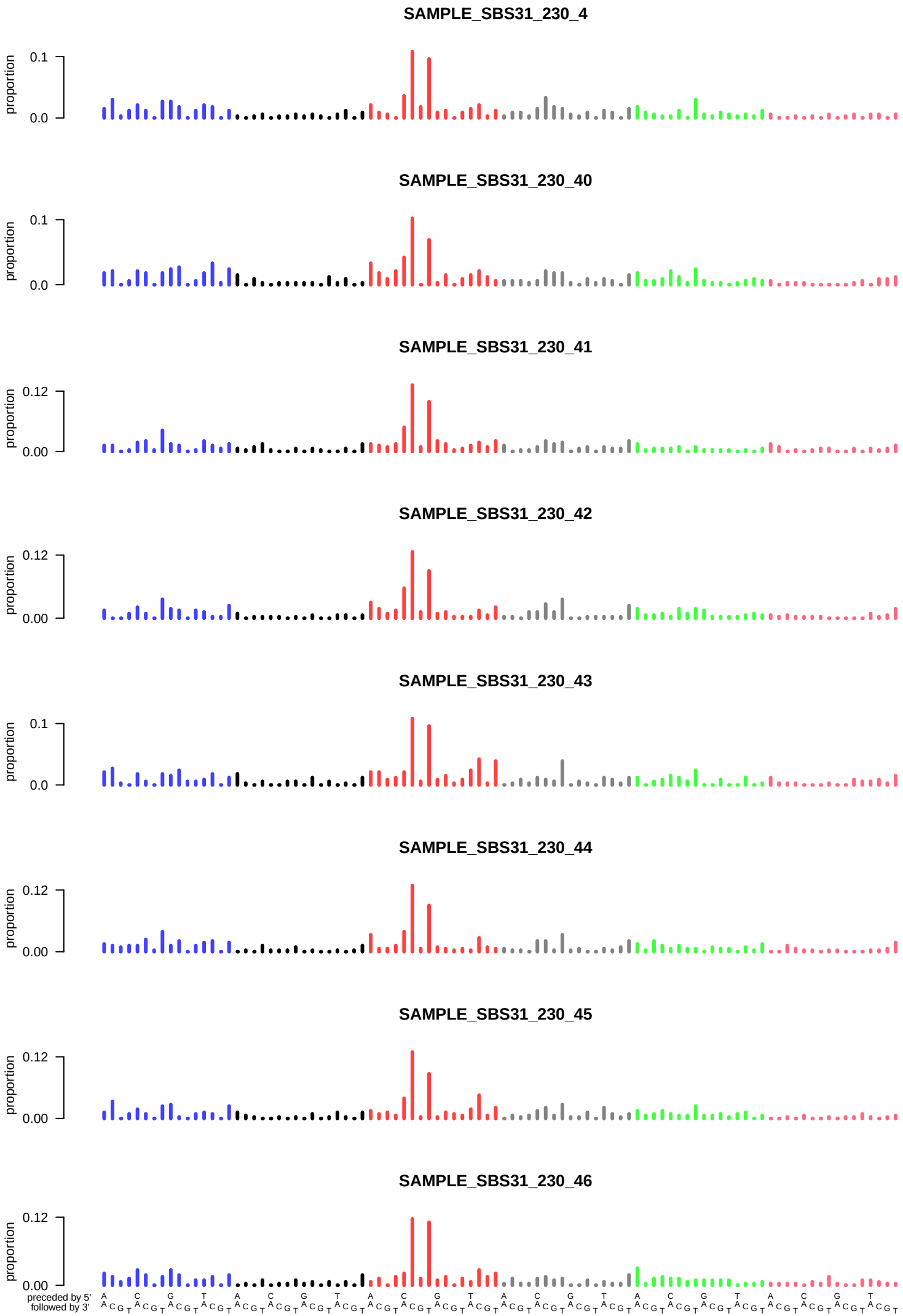
followed by 3'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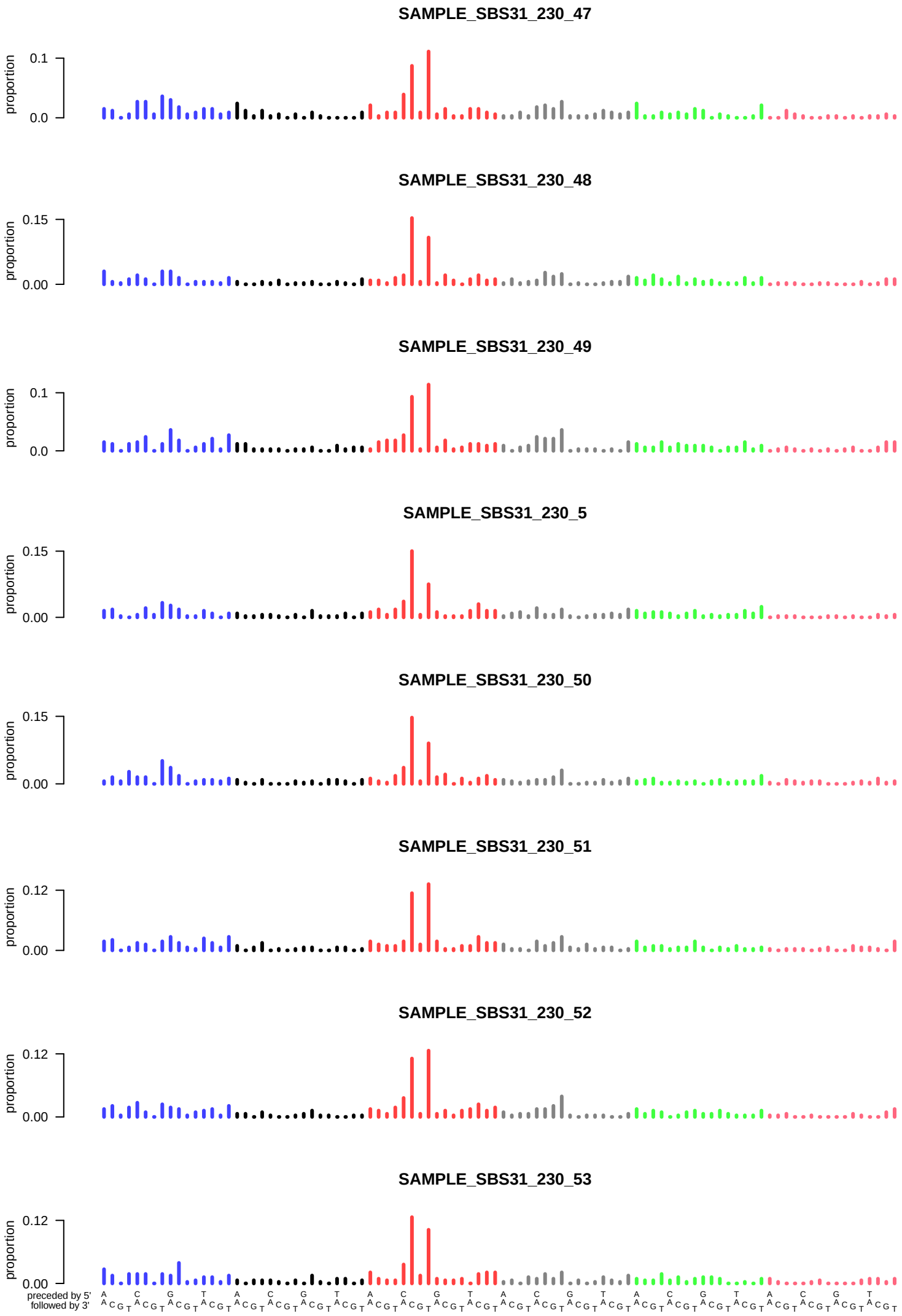
followed by 3'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proportion
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SAMPLE_SBS31_230_51
proportion
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SAMPLE_SBS31_230_52
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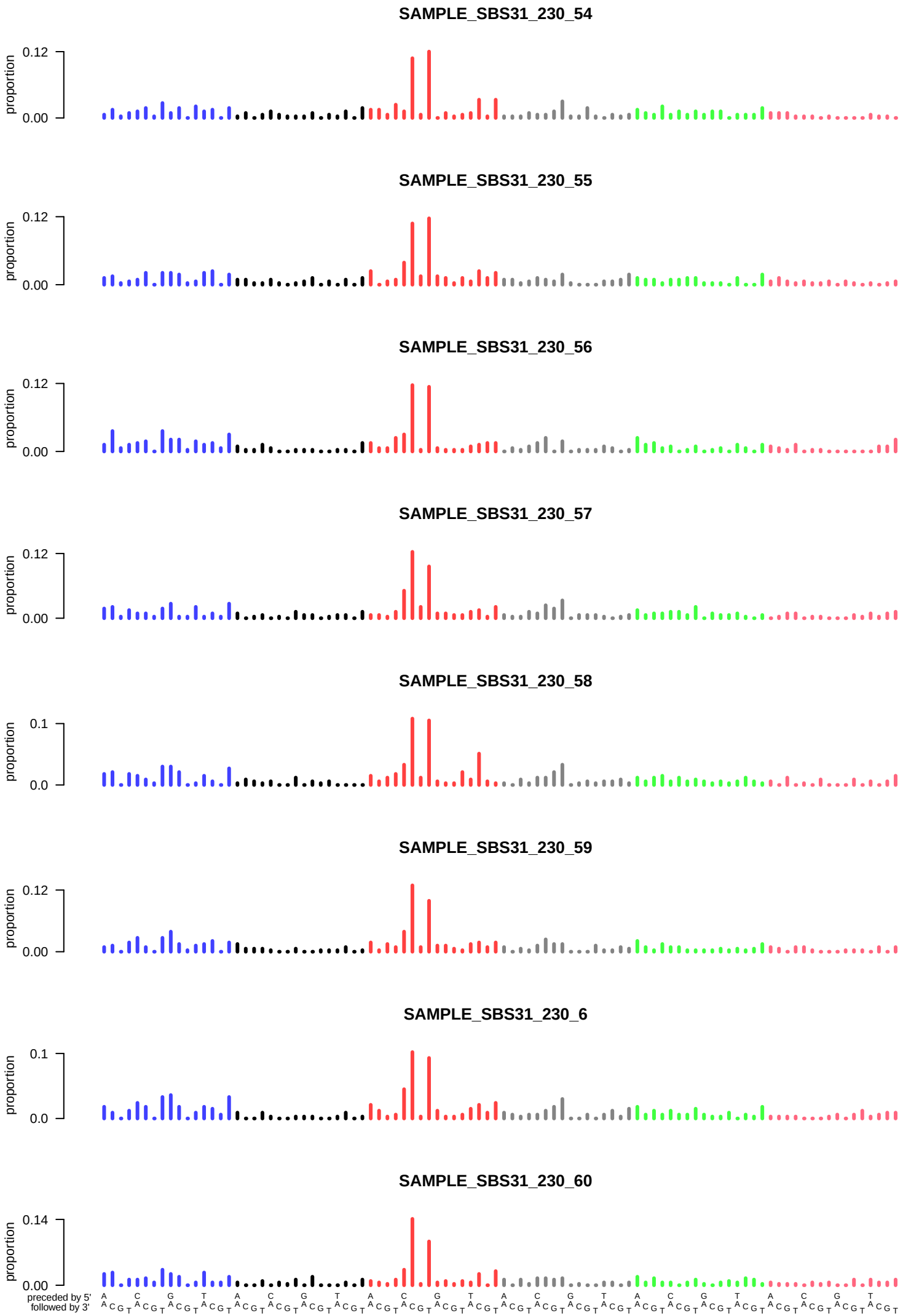
followed by 3'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SAMPLE_SBS31_230_6
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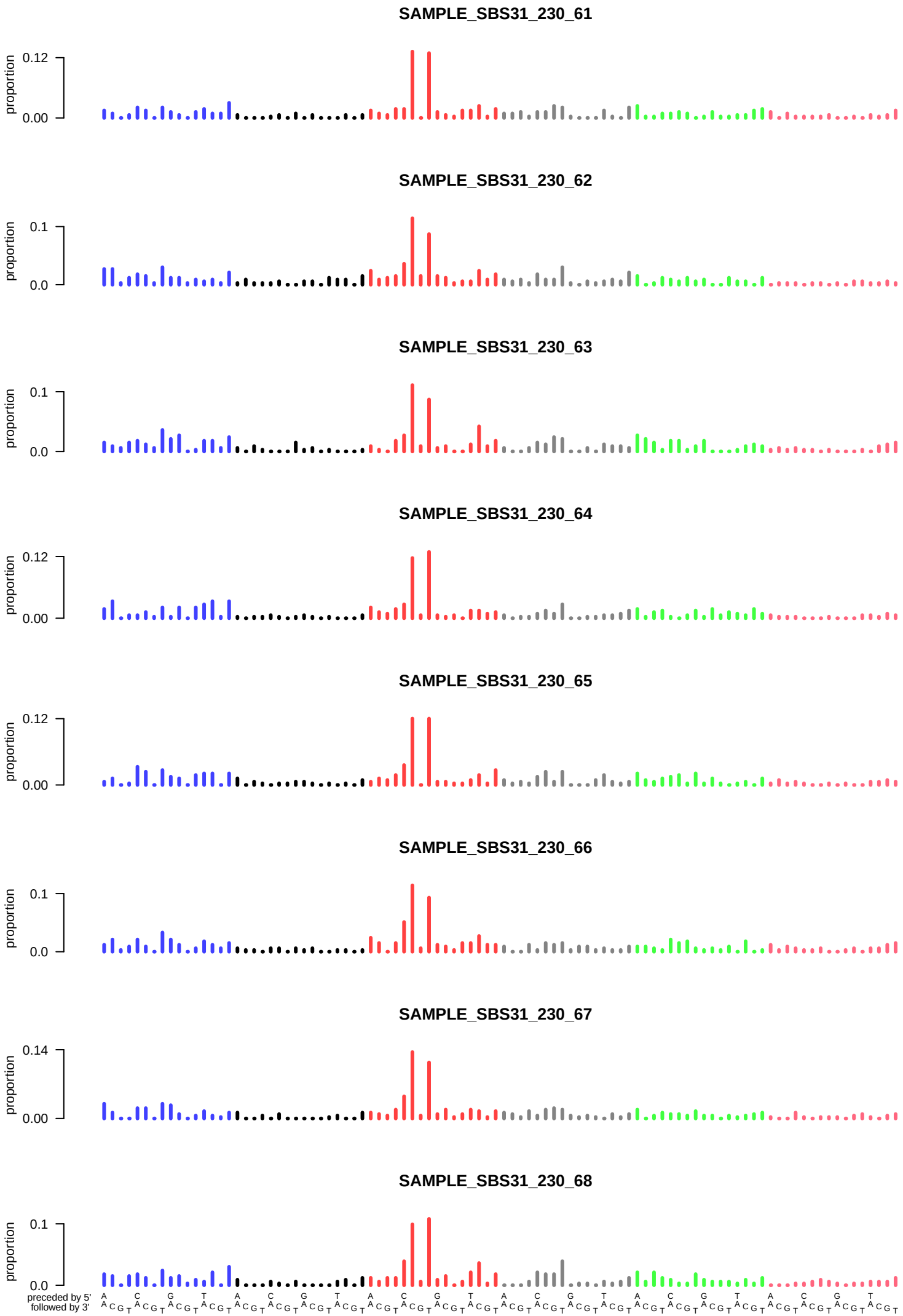
followed by 3'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SAMPLE_SBS31_230_67
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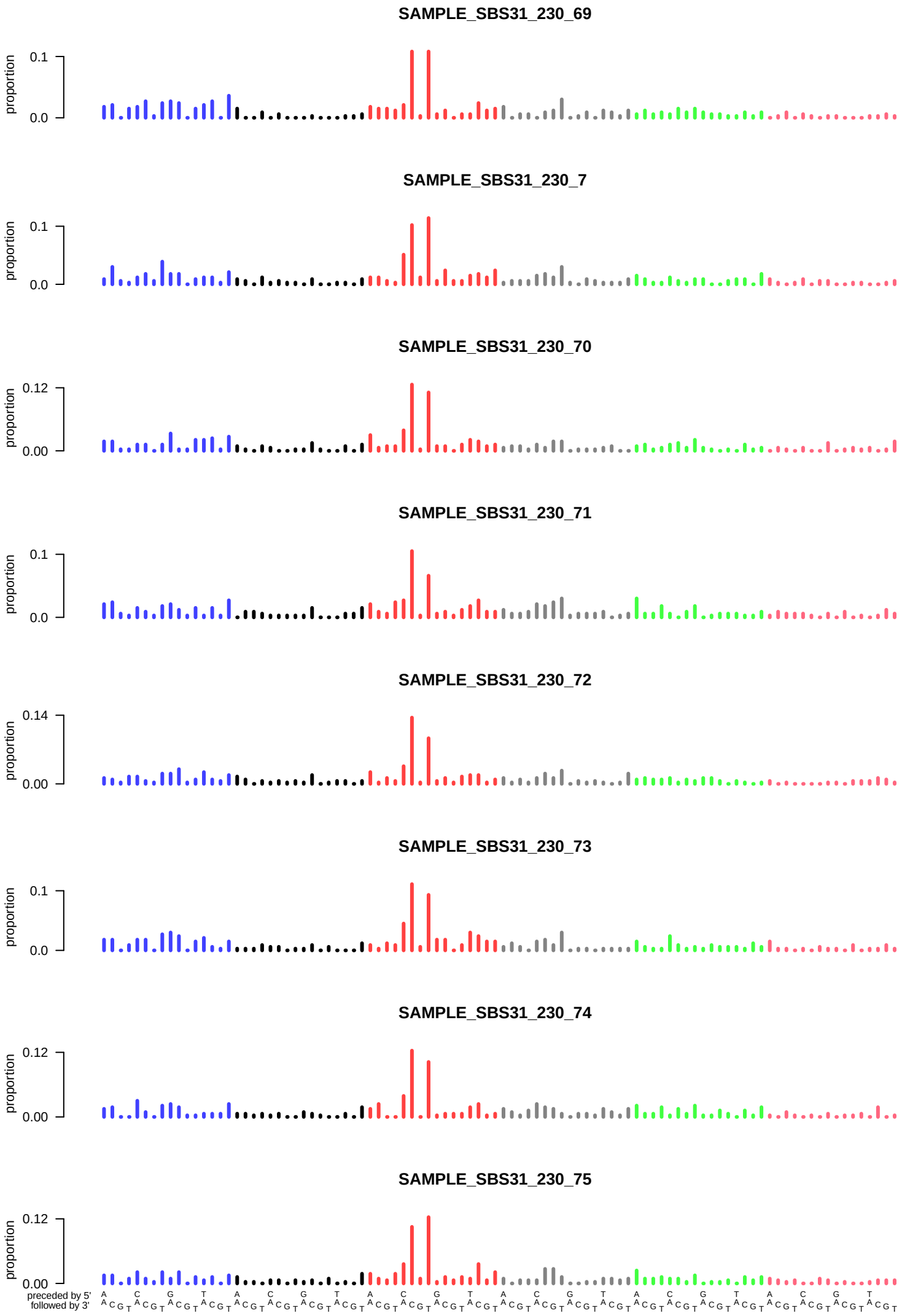
preceded by 5'
followed by 3'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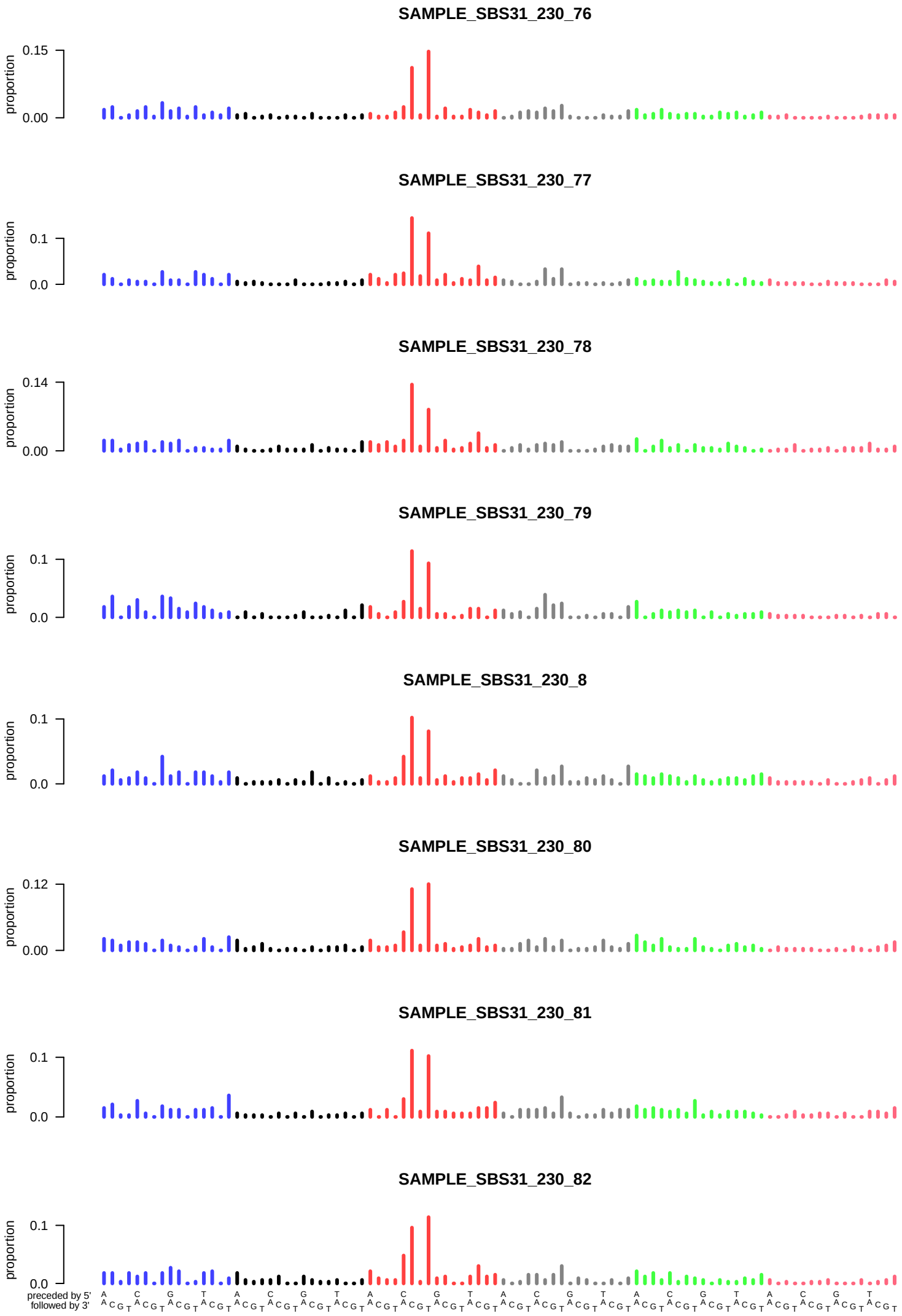
A C G T A C G T A C G T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SAMPLE_SBS31_230_8
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SAMPLE_SBS31_230_81
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SAMPLE_SBS31_230_82
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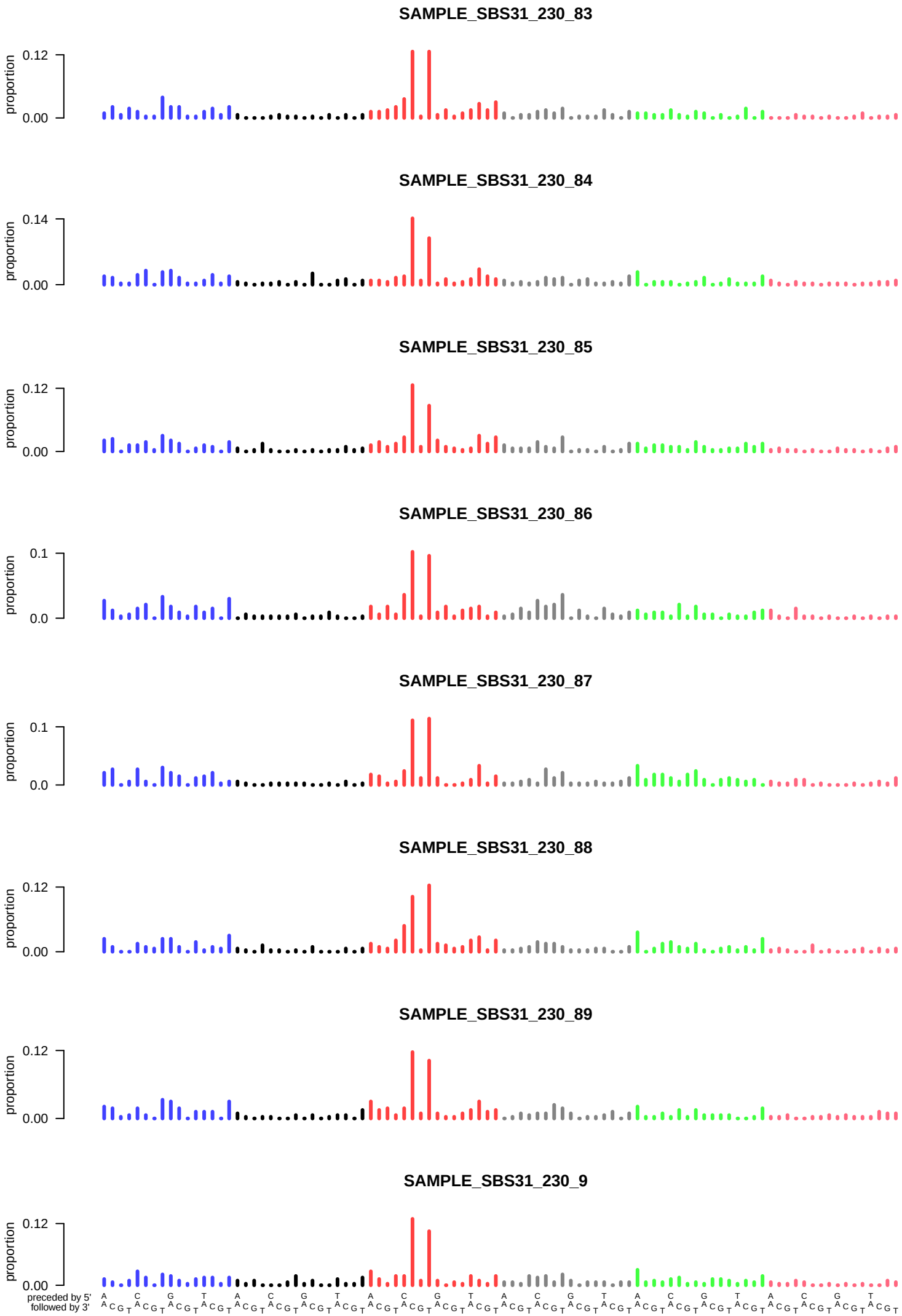
preceded by 5'
followed by 3'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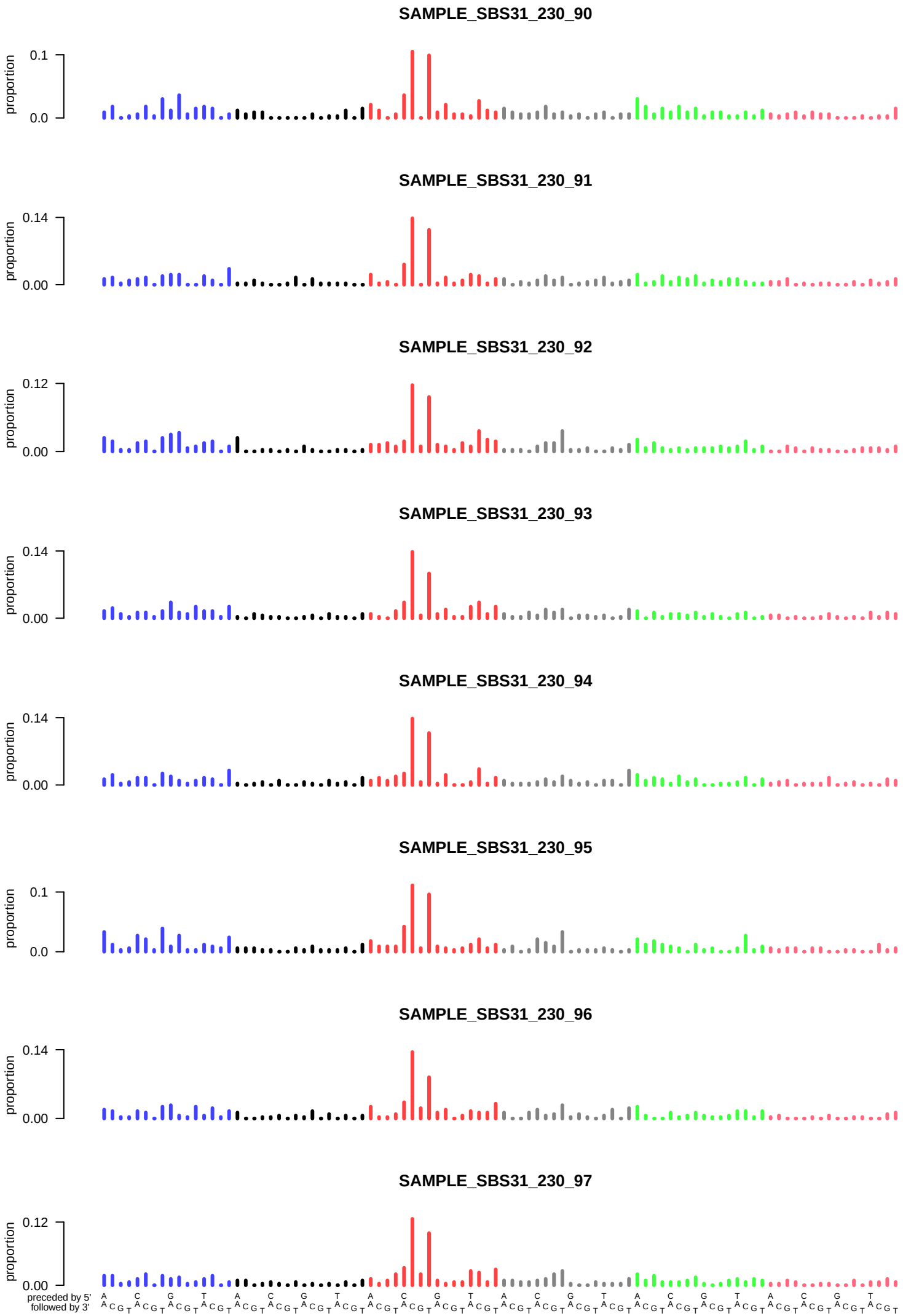
followed by 3'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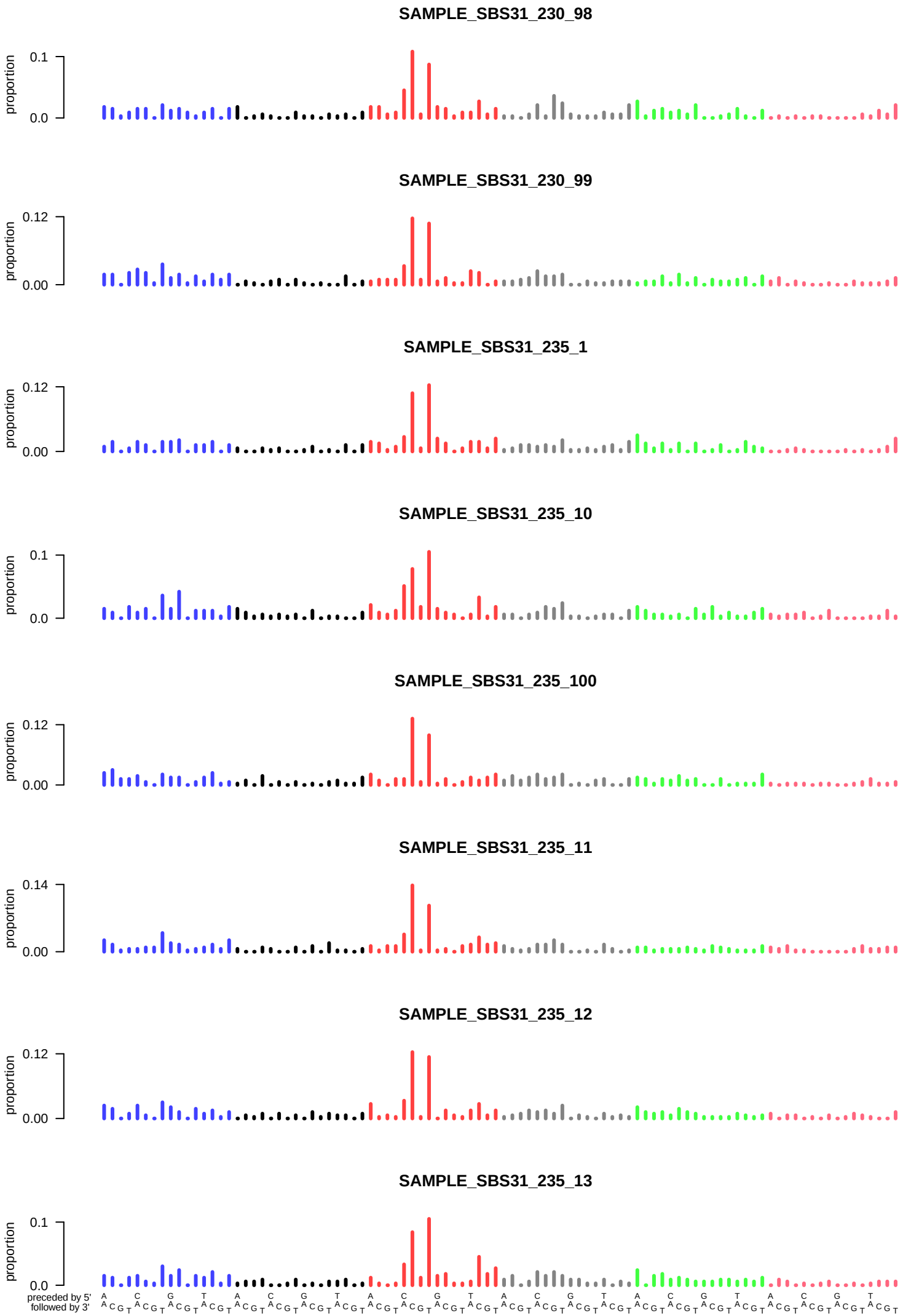
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SAMPLE_SBS31_235_12
proportion
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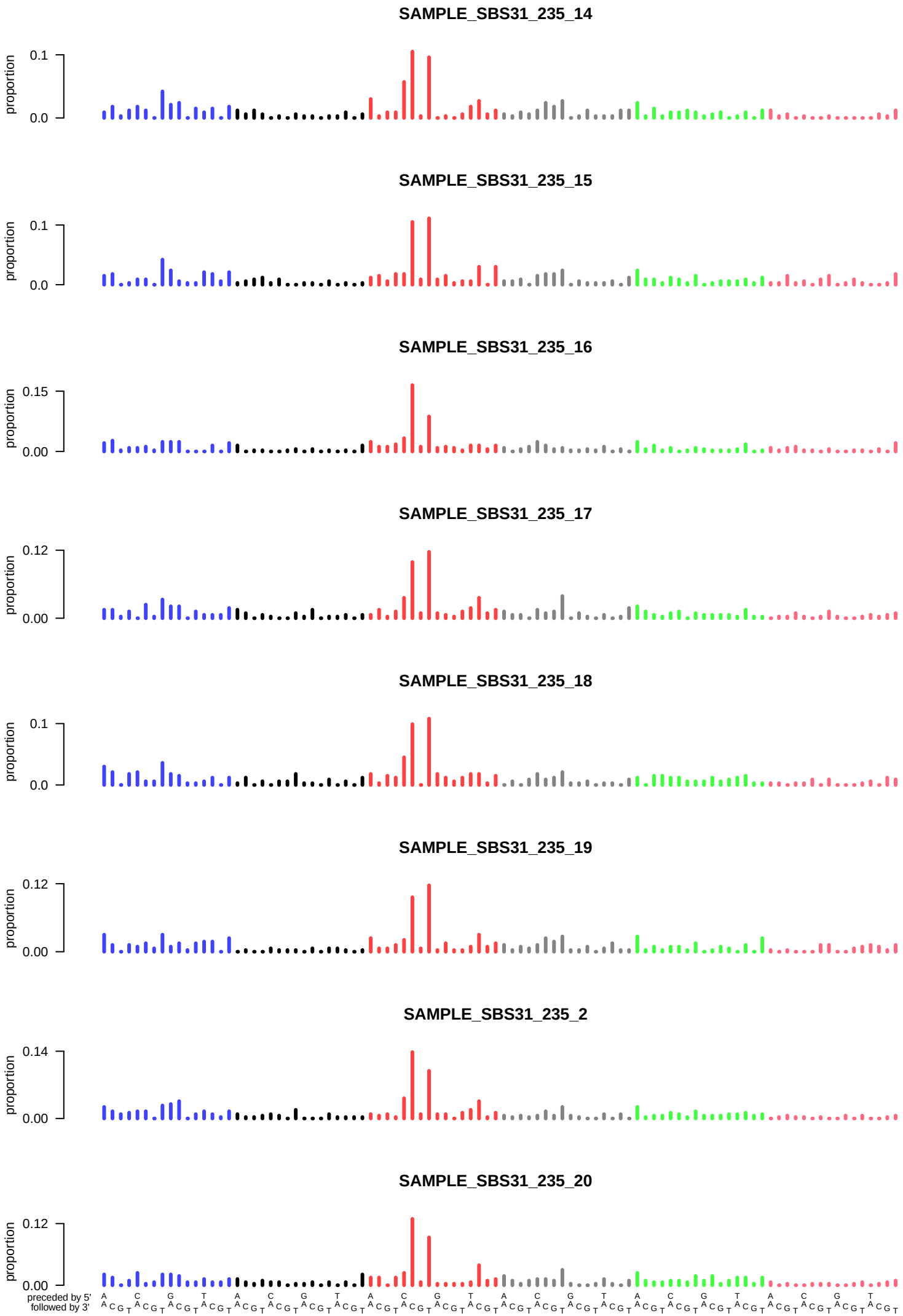
followed by 3'
A C G T A C G T A C G T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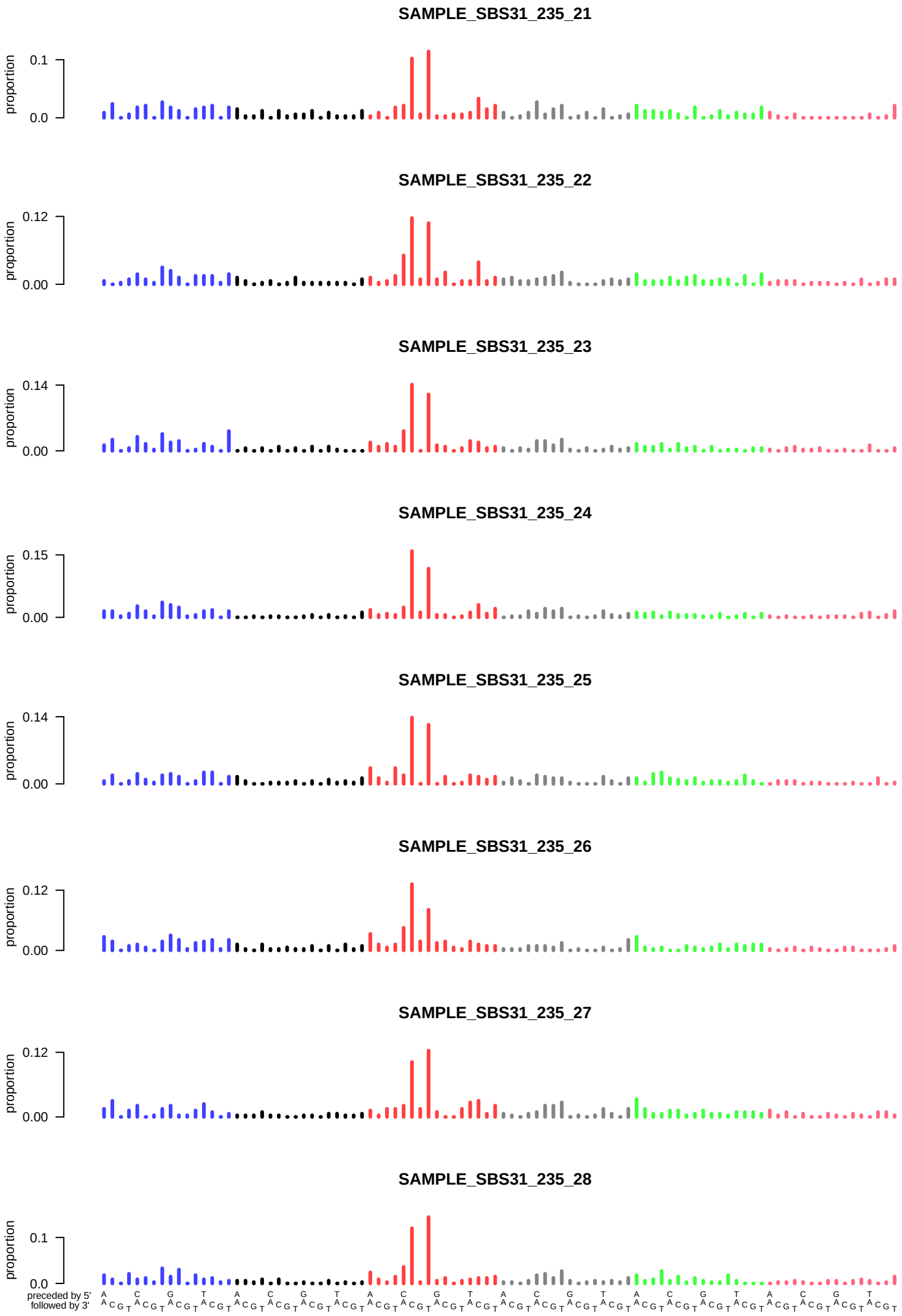
followed by 3'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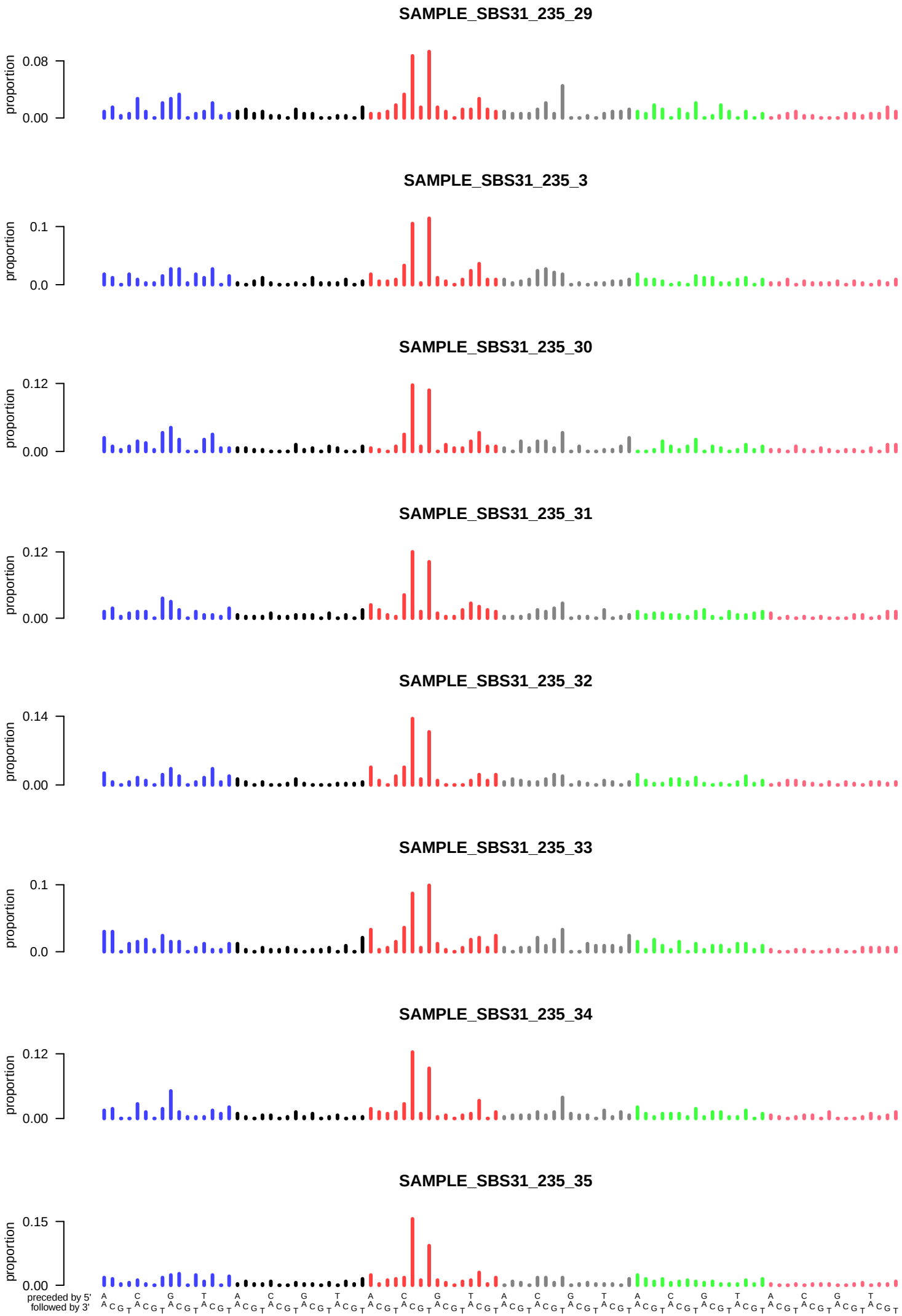
followed by 3'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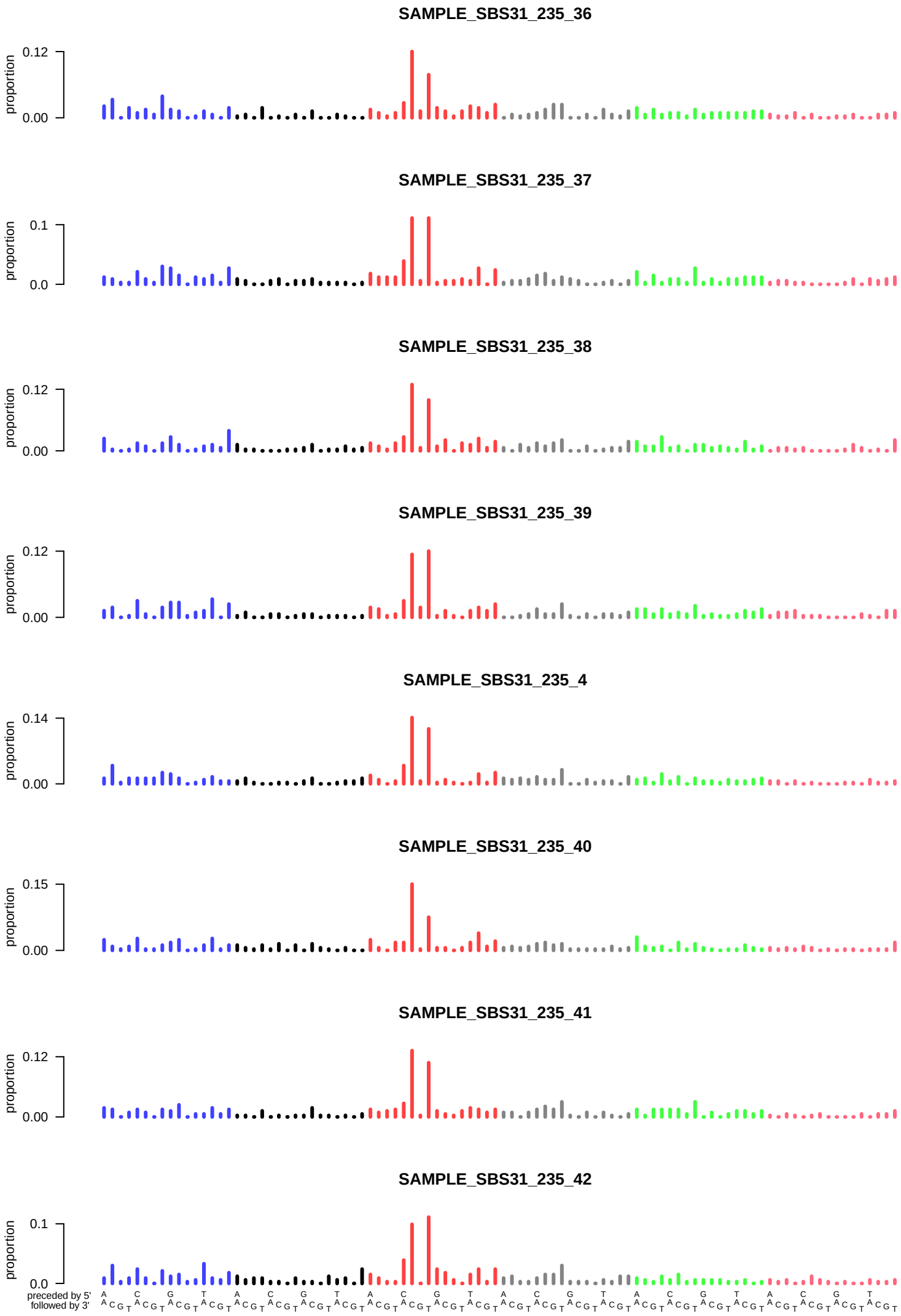
followed by 3'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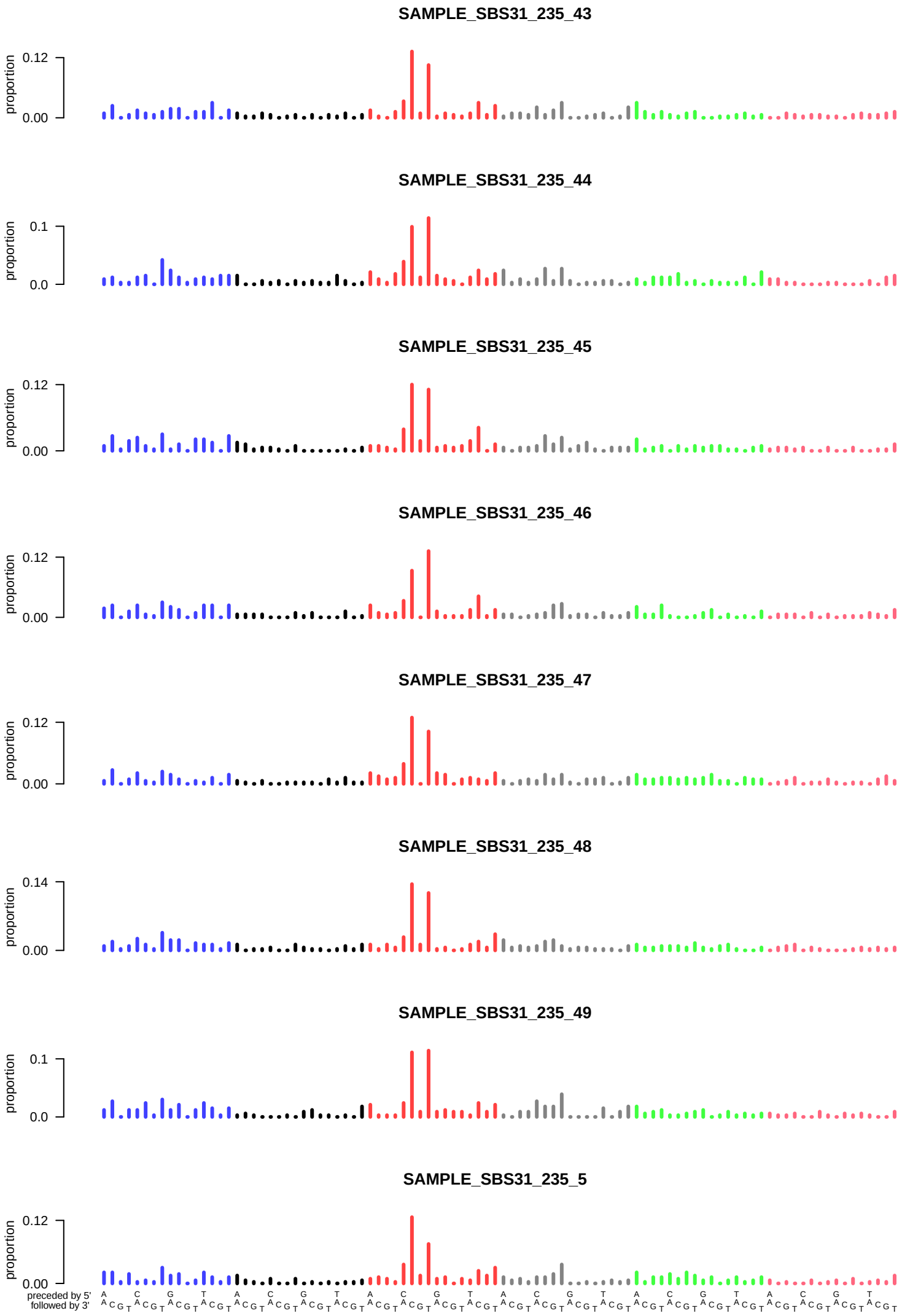
followed by 3'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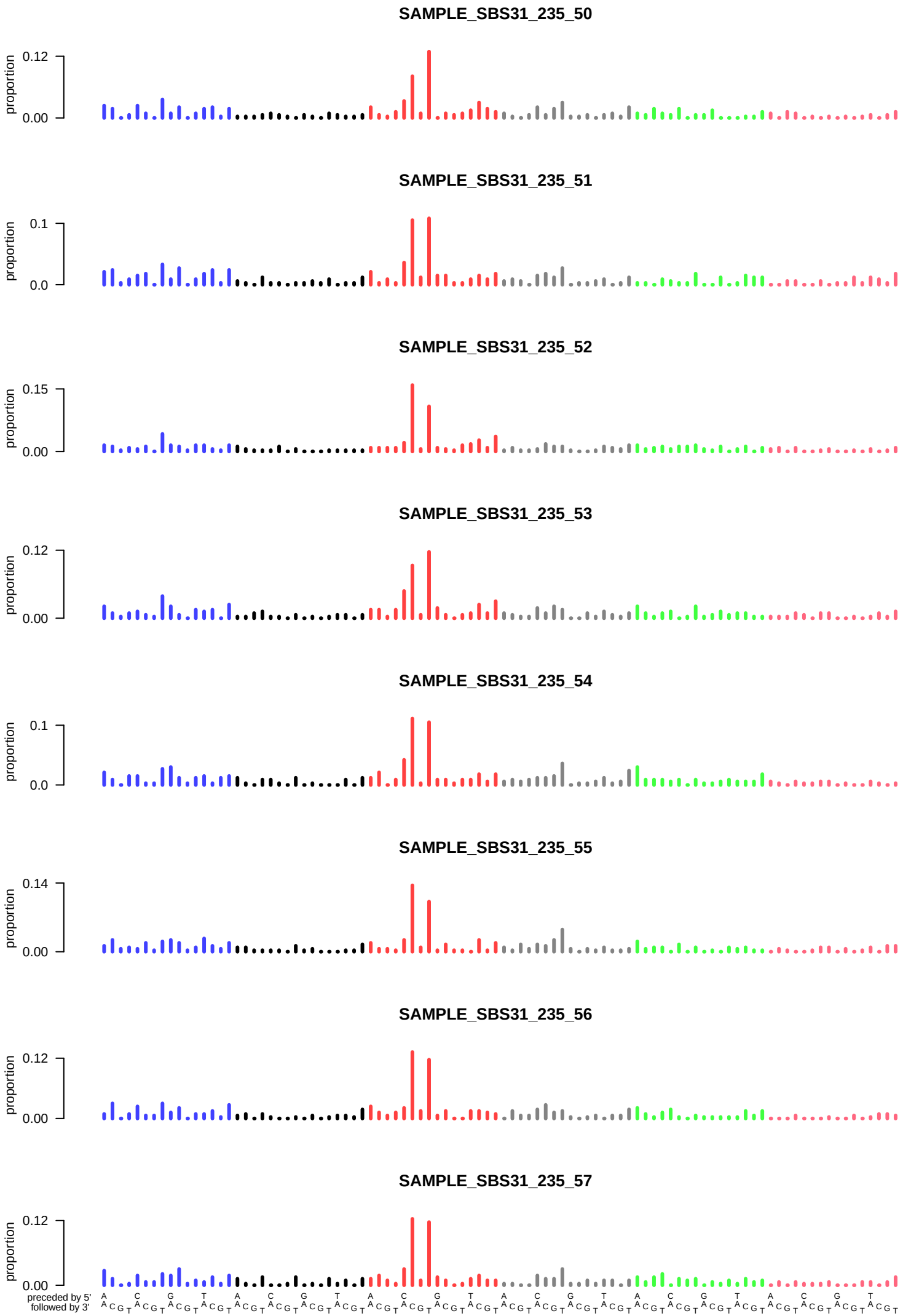
followed by 3'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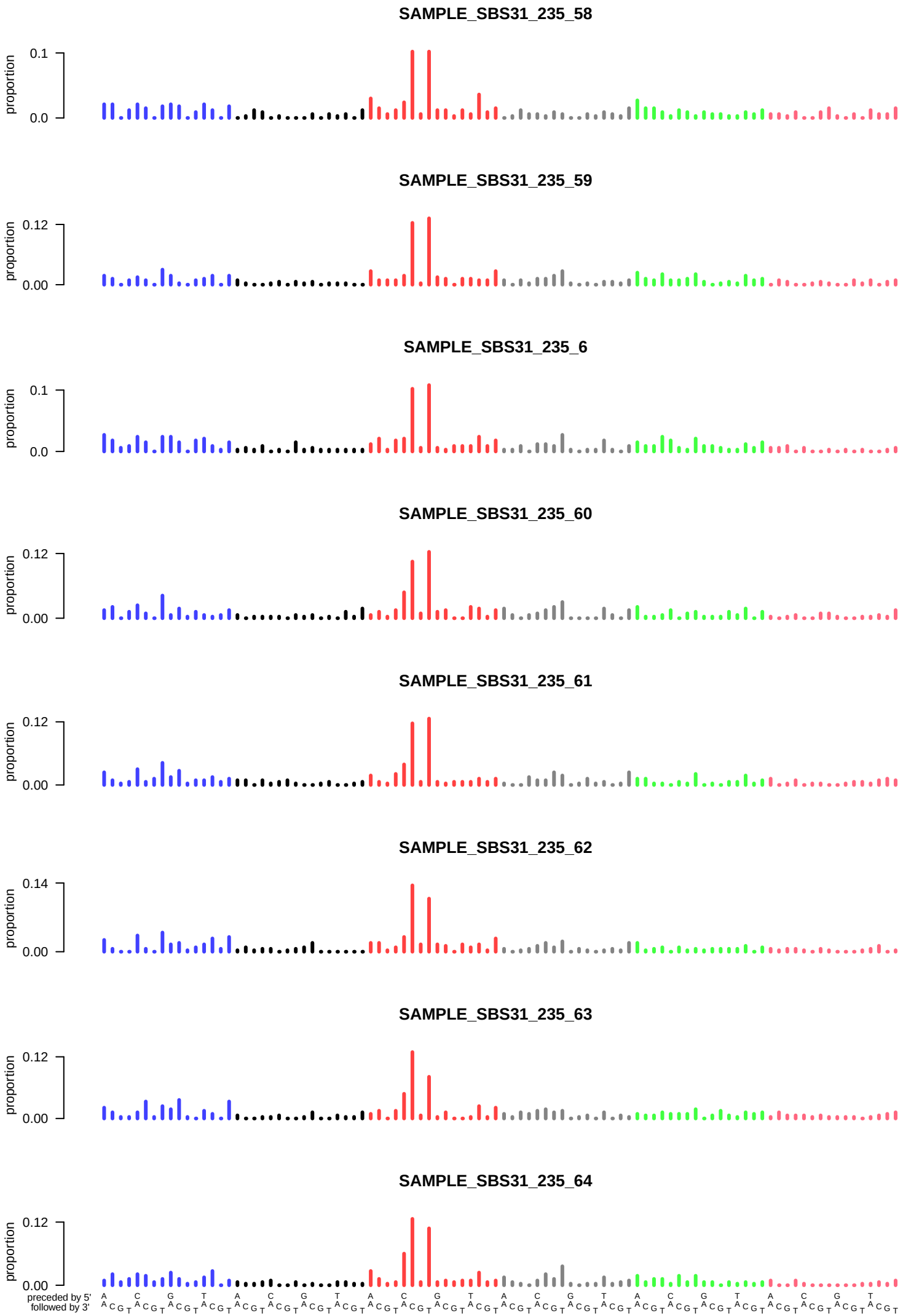
followed by 3'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SAMPLE_SBS31_235_60
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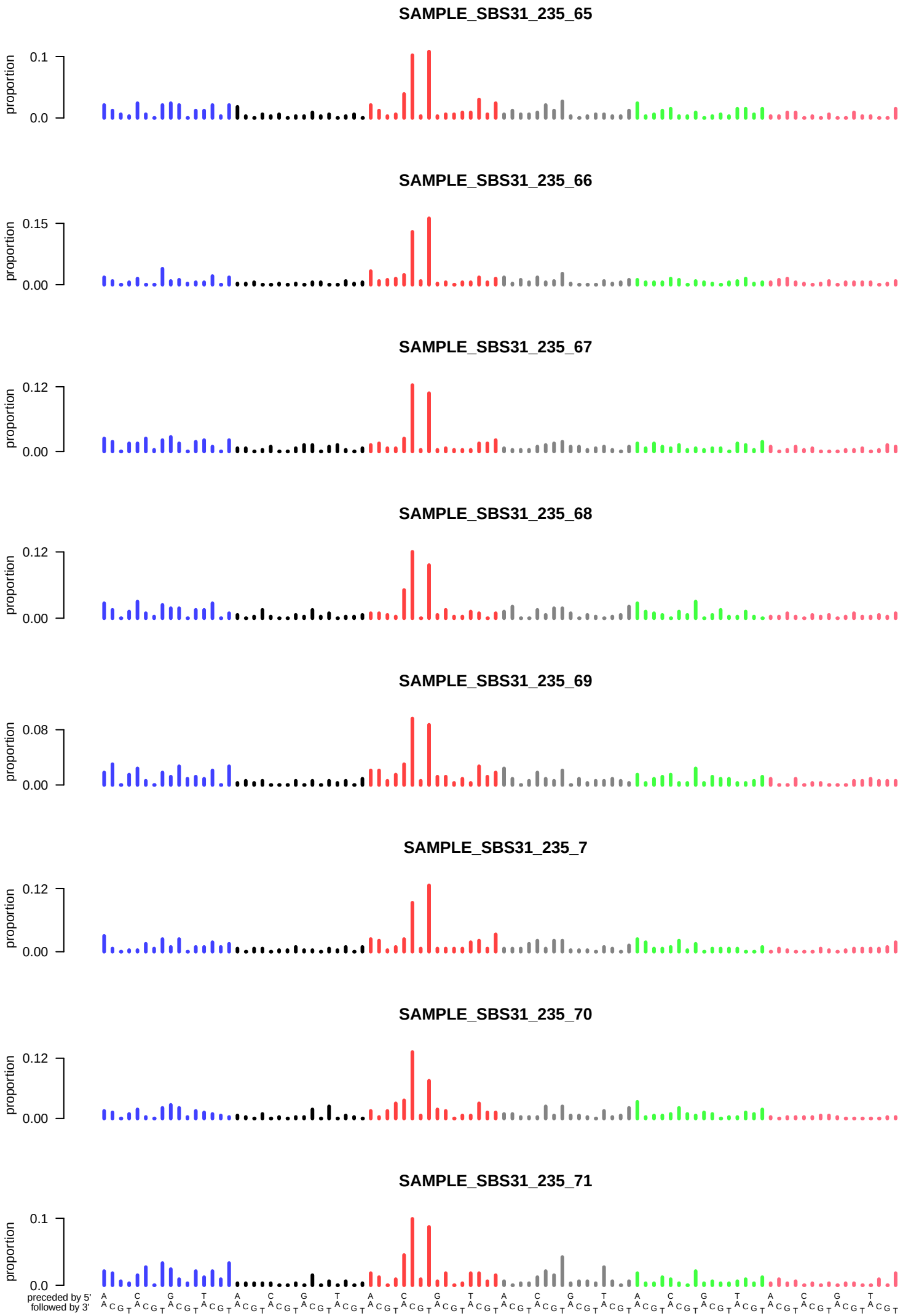
followed by 3'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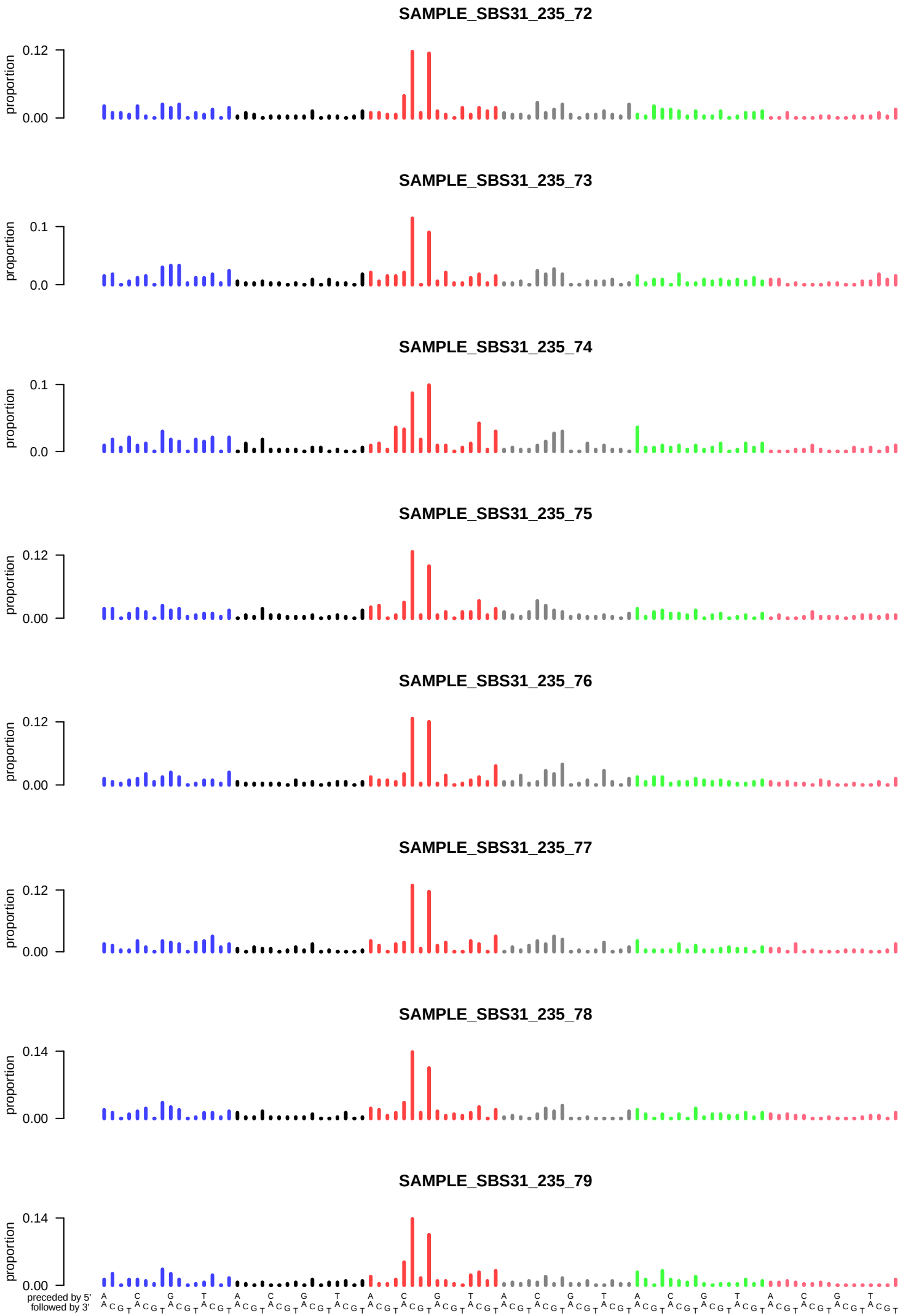
followed by 3'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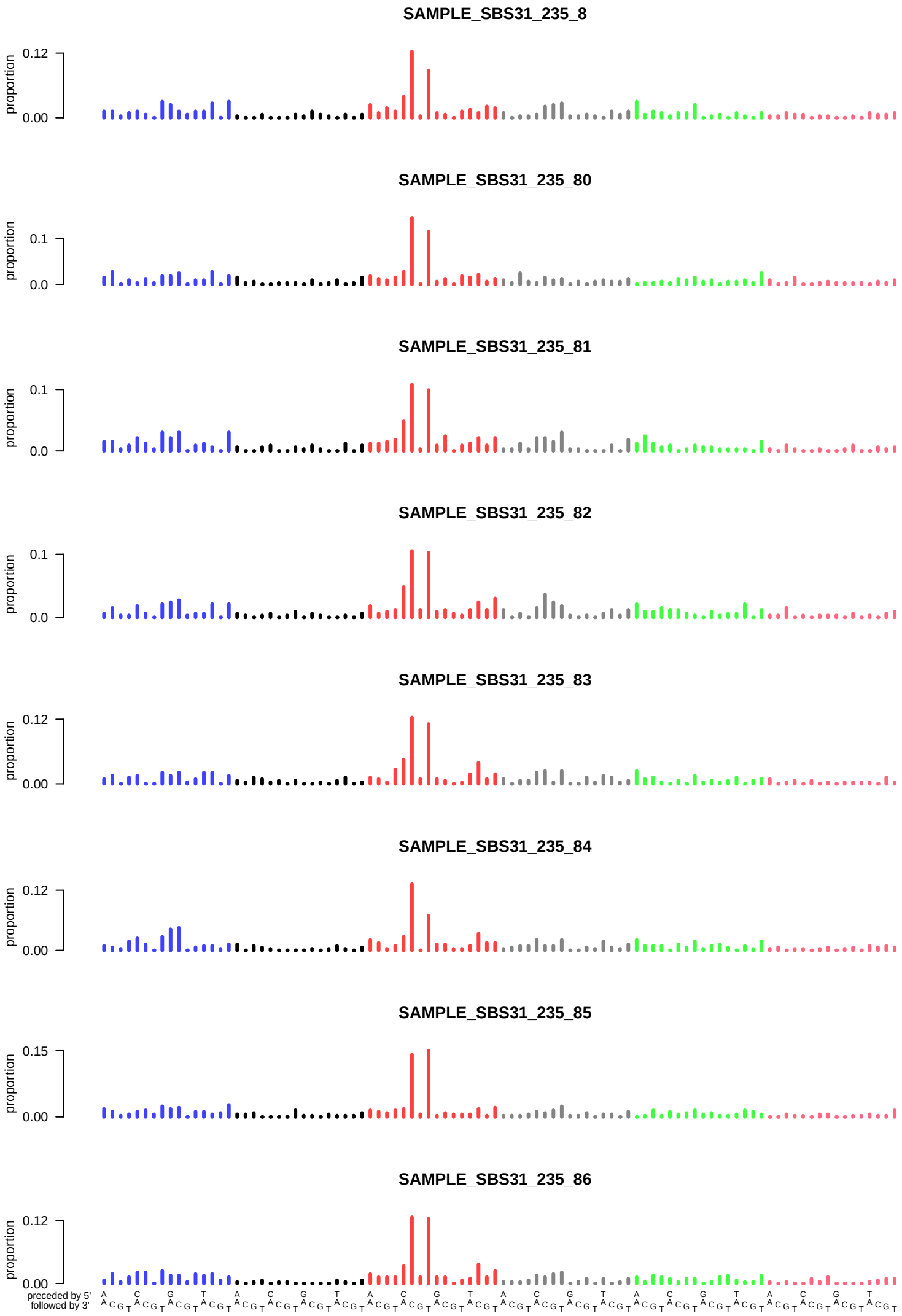
followed by 3'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SAMPLE_SBS31_235_84
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SAMPLE_SBS31_235_85
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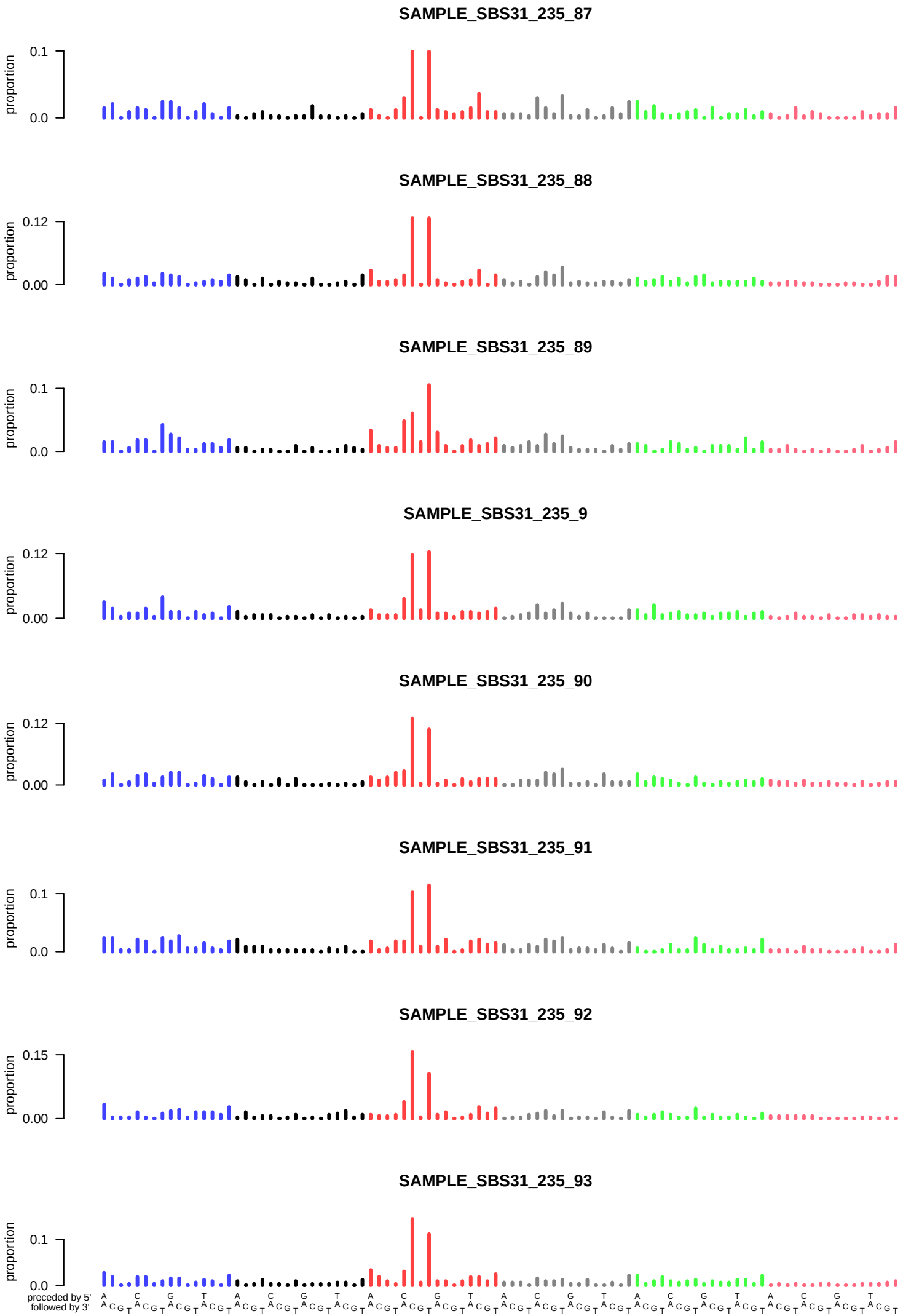
followed by 3'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proportion
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proportion
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SAMPLE_SBS31_235_91
proportion
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SAMPLE_SBS31_235_92
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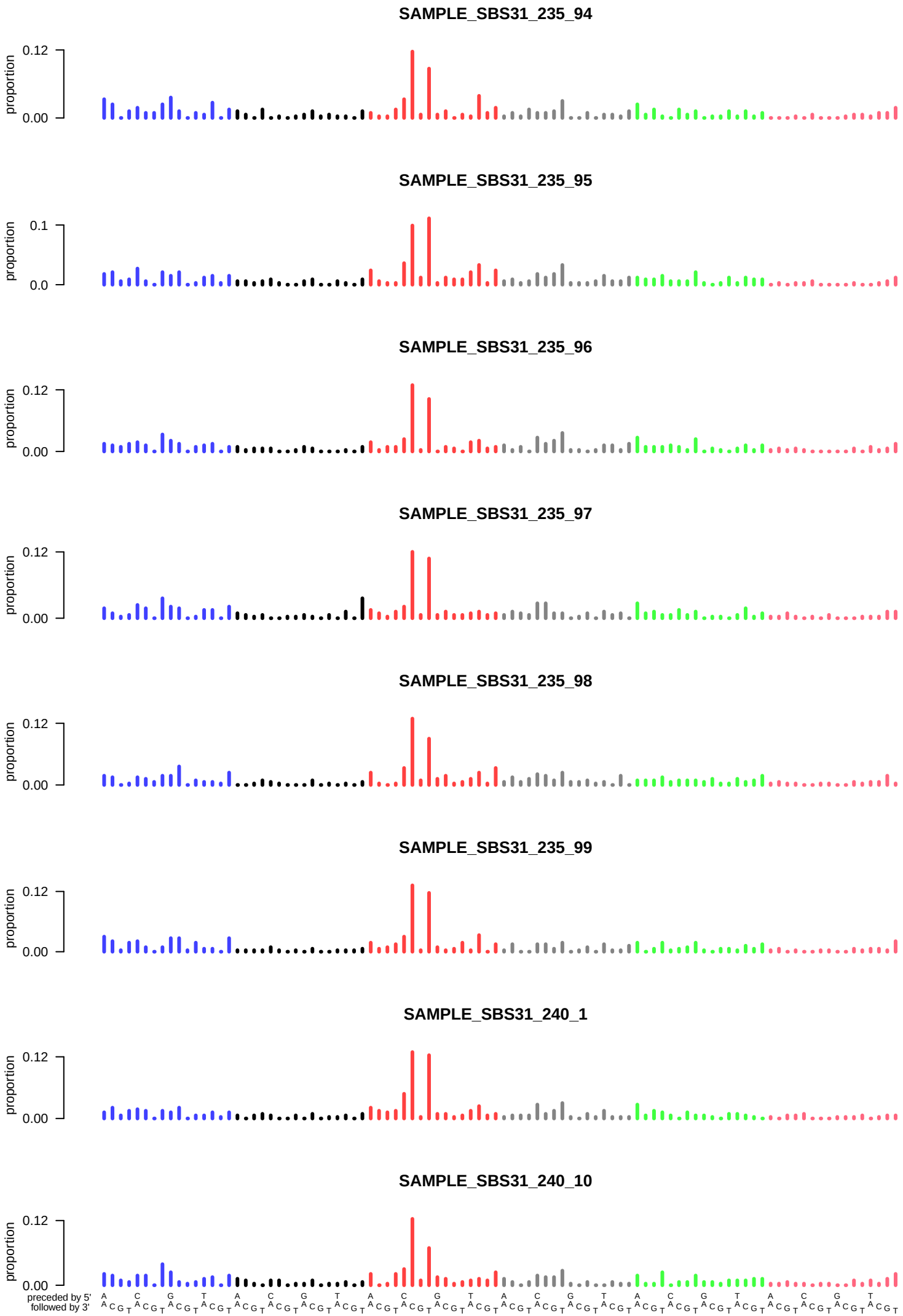
followed by 3'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SAMPLE_SBS31_235_97
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SAMPLE_SBS31_240_1
proportion
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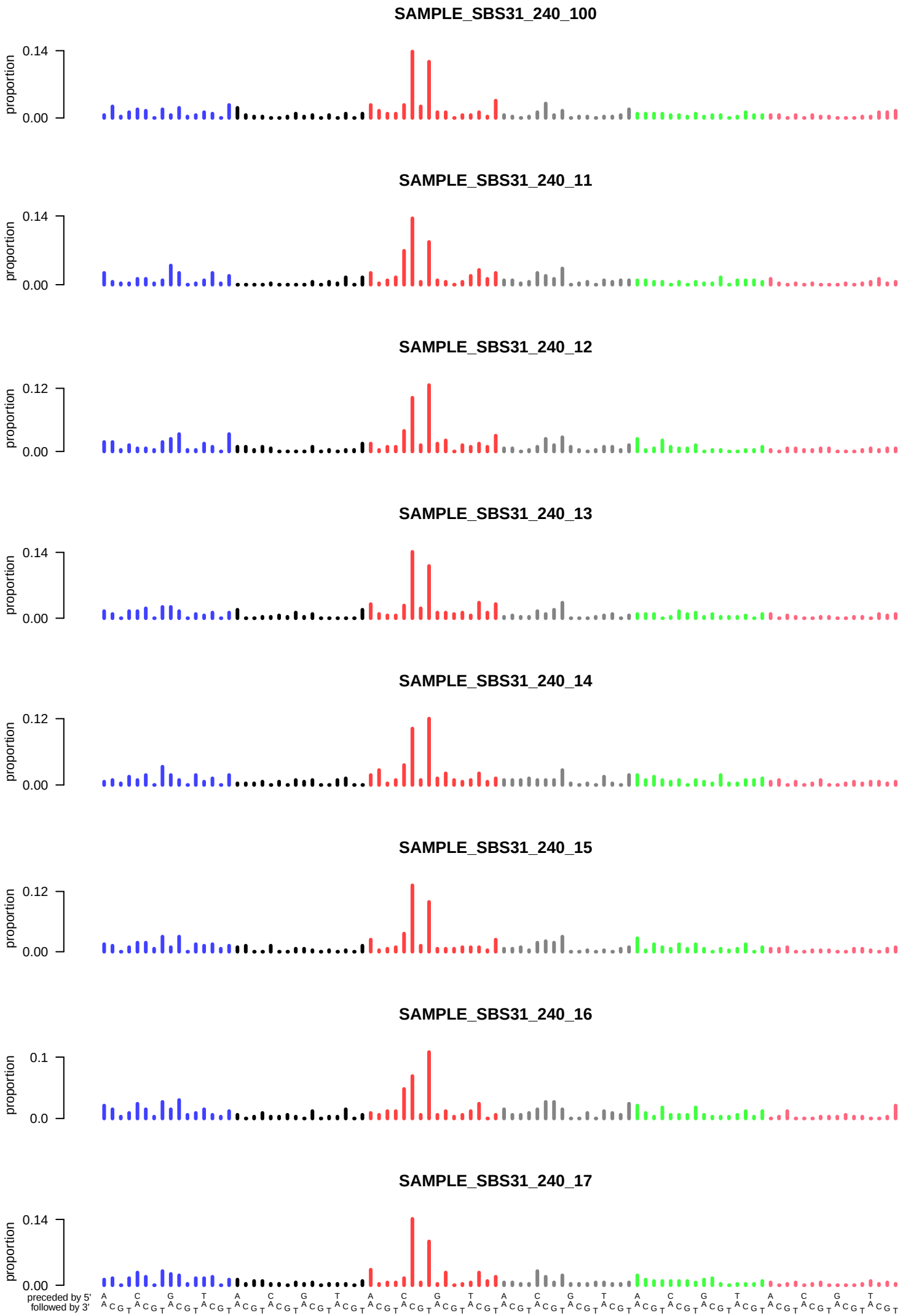
followed by 3'
A C G T A C G T A C G T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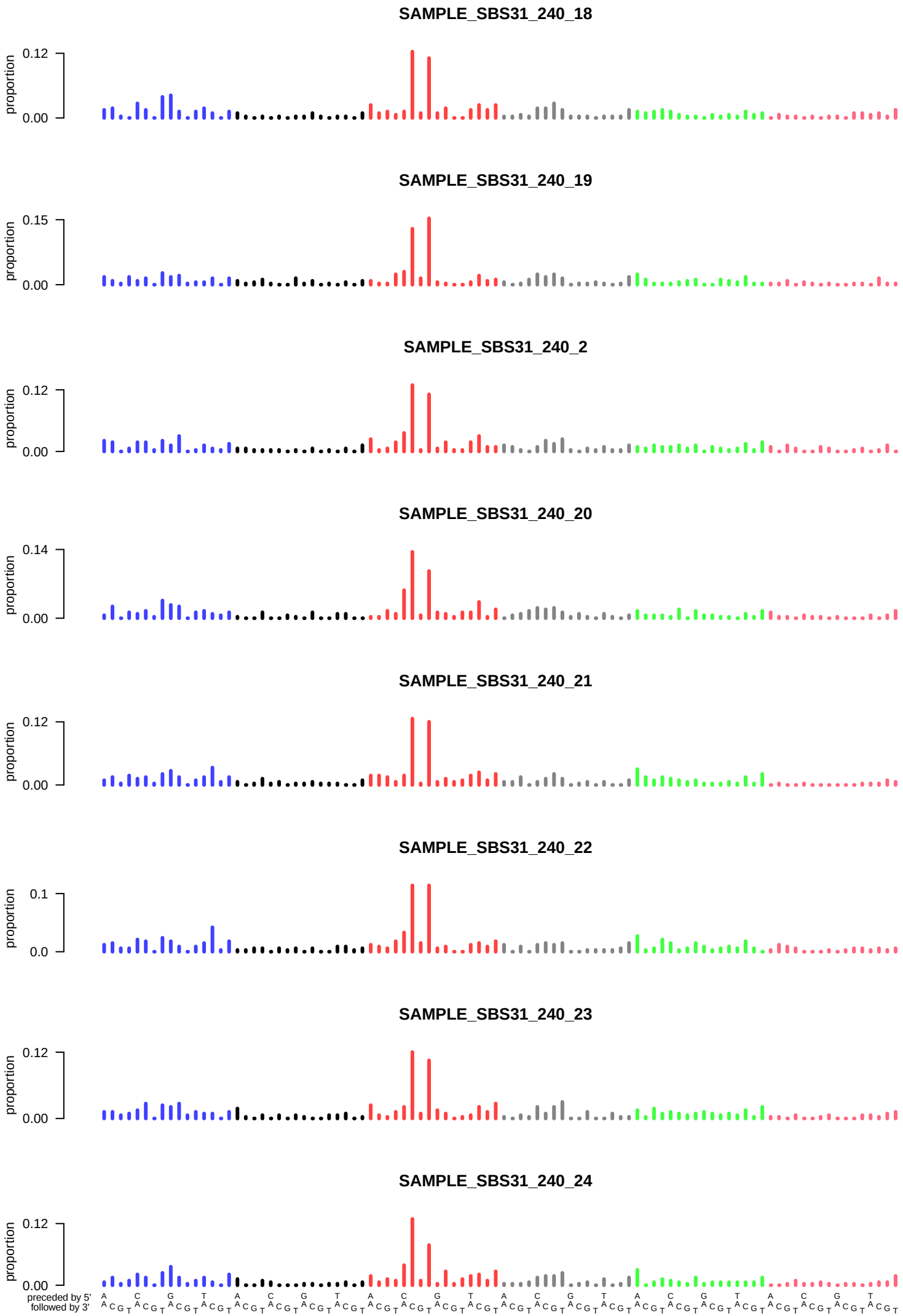
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SAMPLE_SBS31_240_22
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SAMPLE_SBS31_240_23
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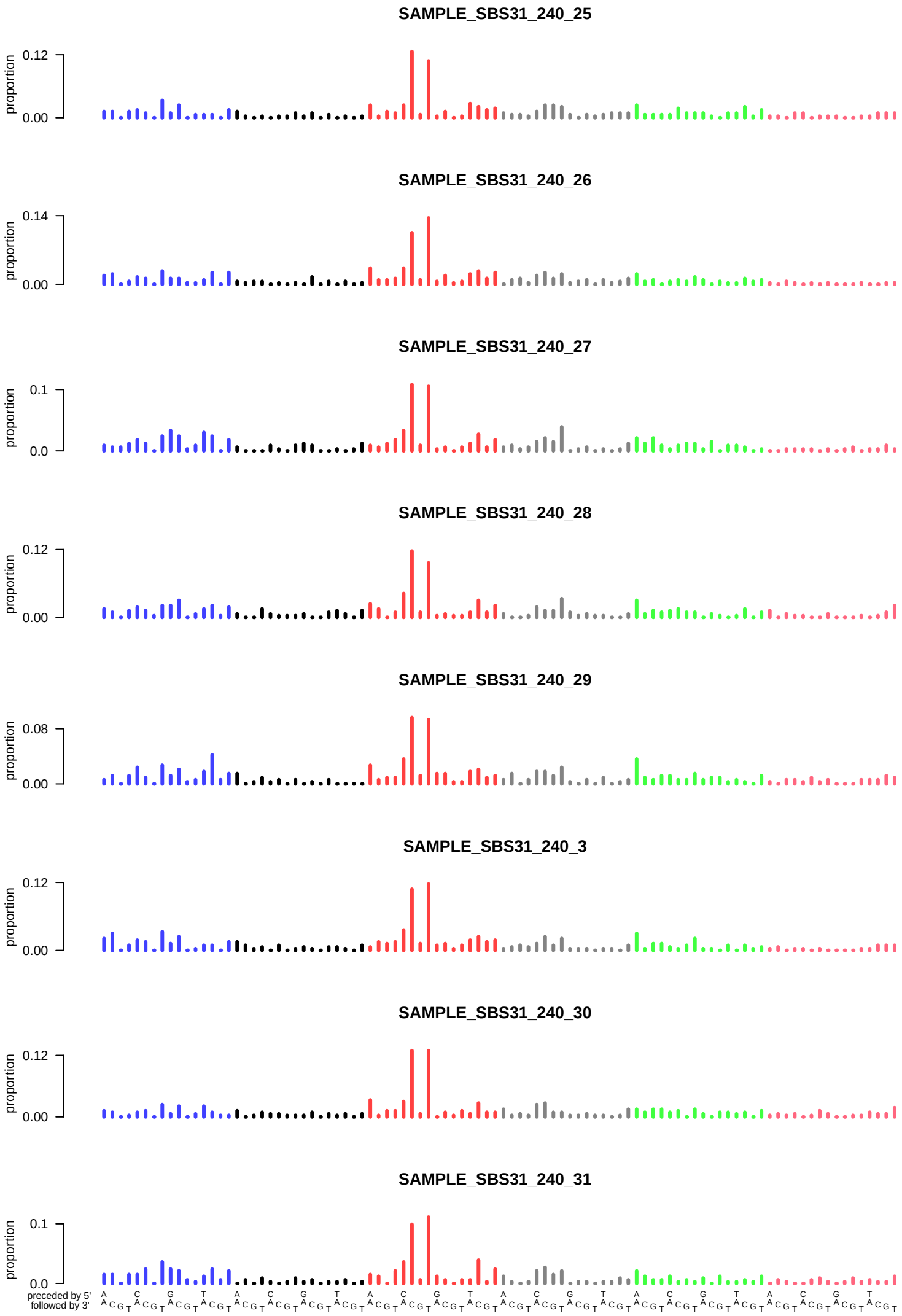
followed by 3'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SAMPLE_SBS31_240_30
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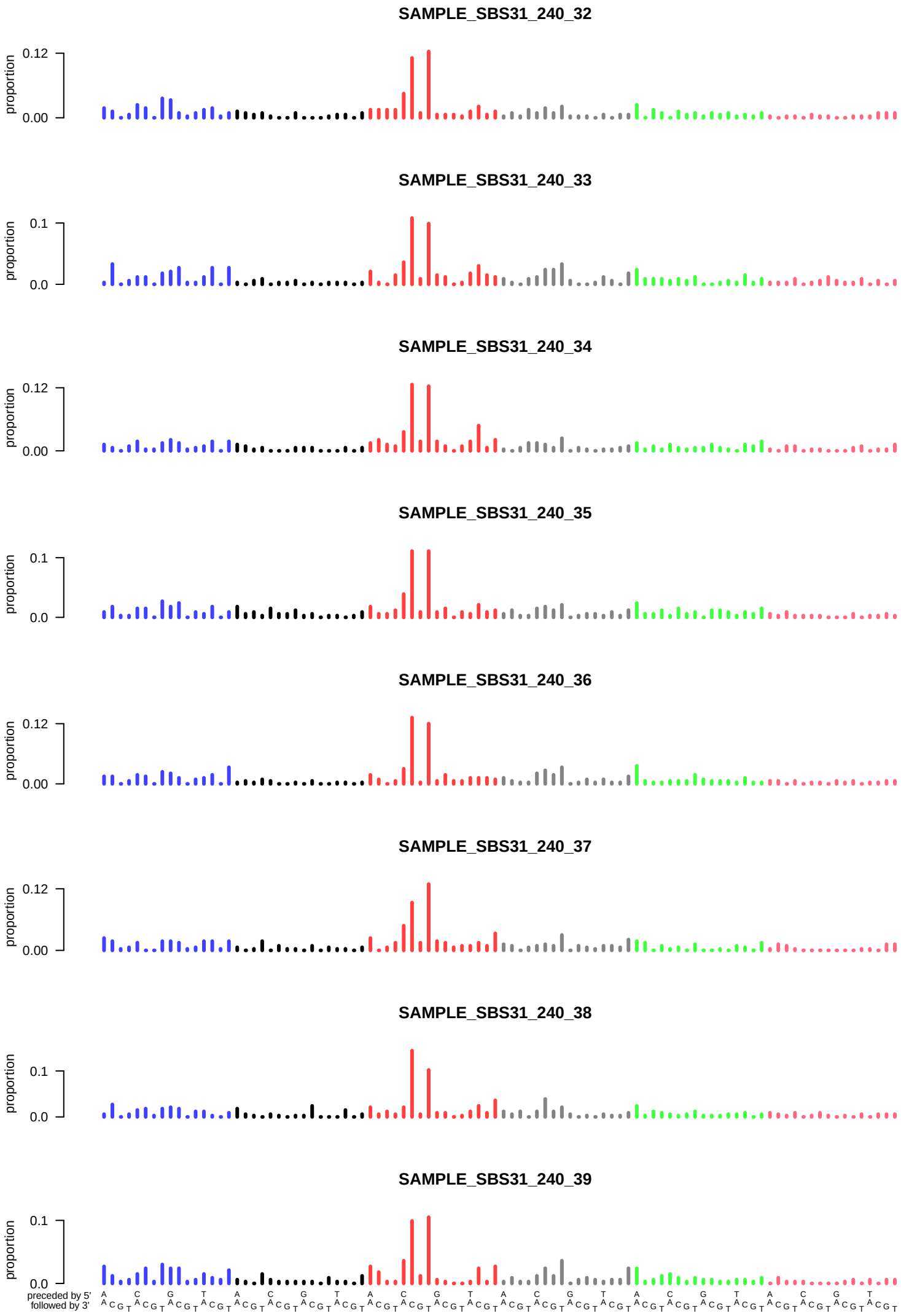
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SAMPLE_SBS31_240_36
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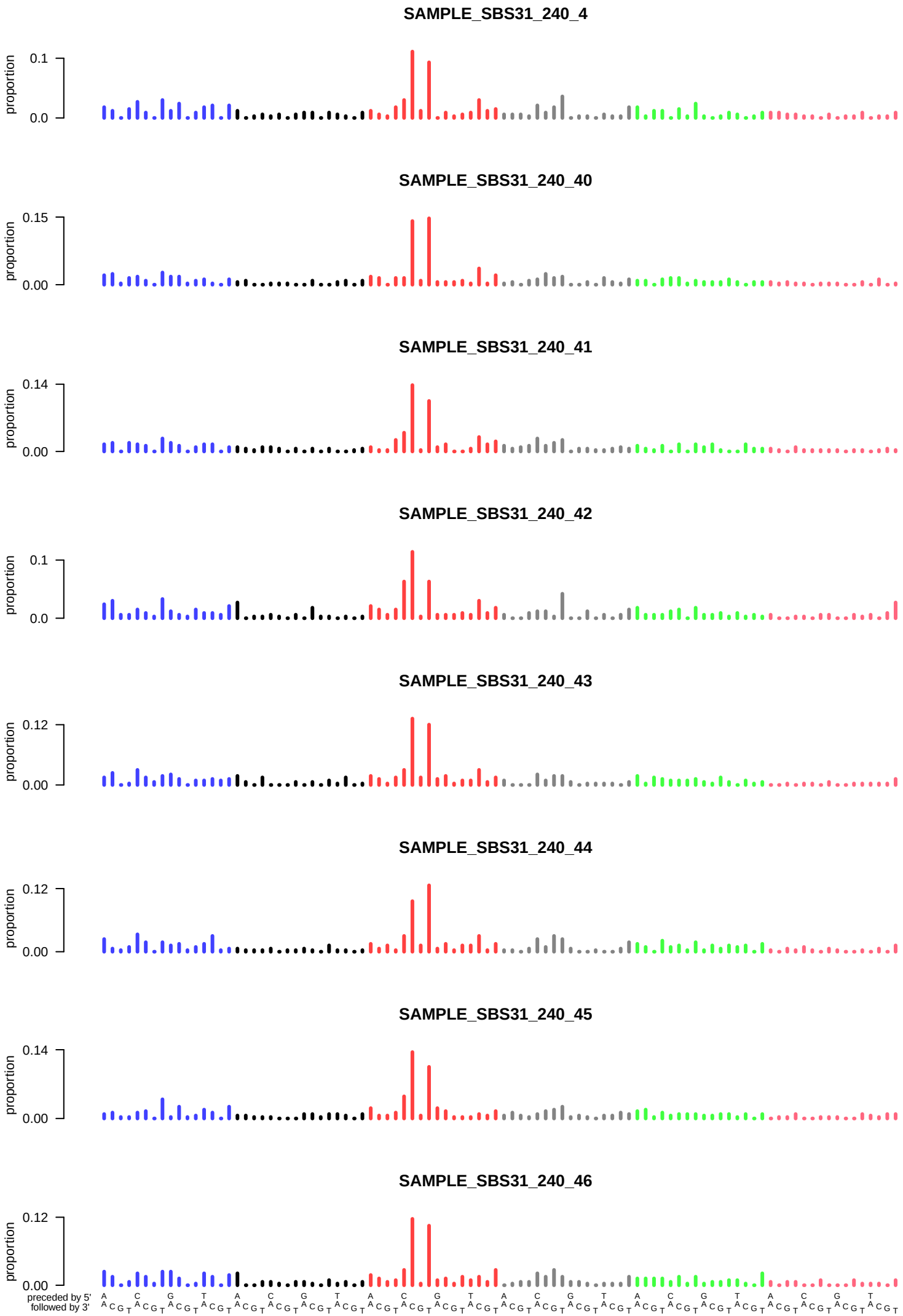
A C G T A C G T A C G T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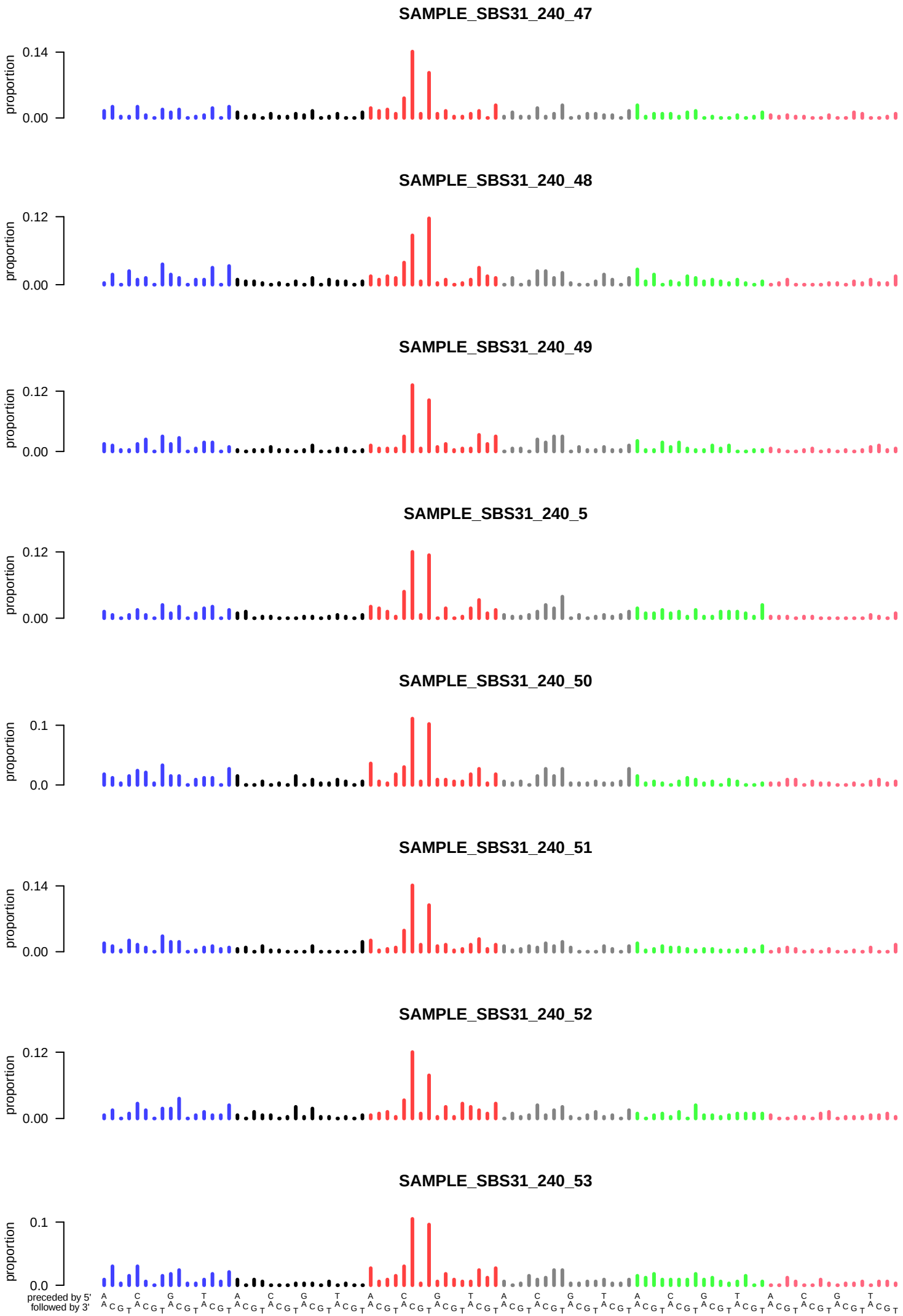
followed by 3'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SAMPLE_SBS31_240_50
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SAMPLE_SBS31_240_51
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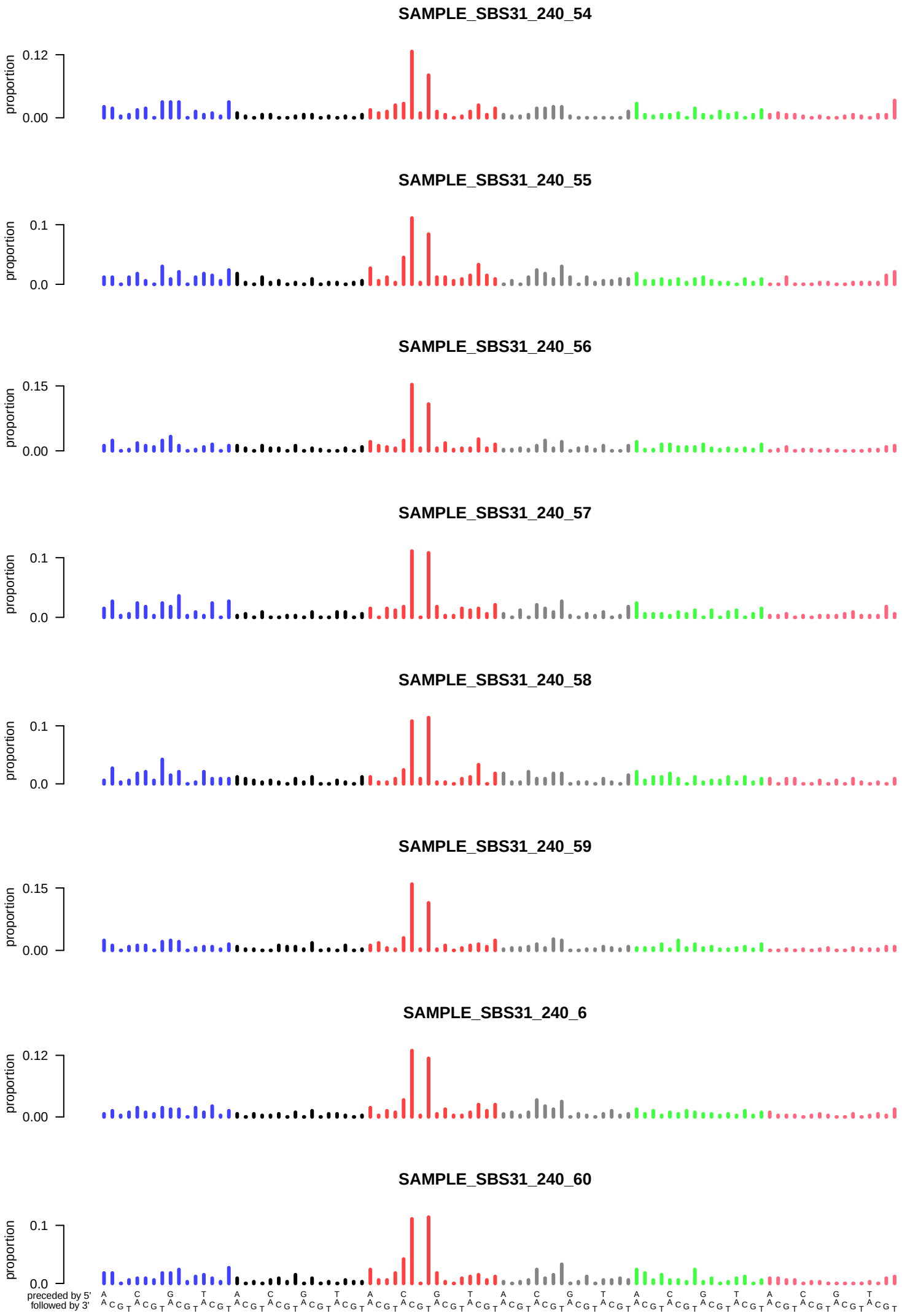
preceded by 5'
followed by 3'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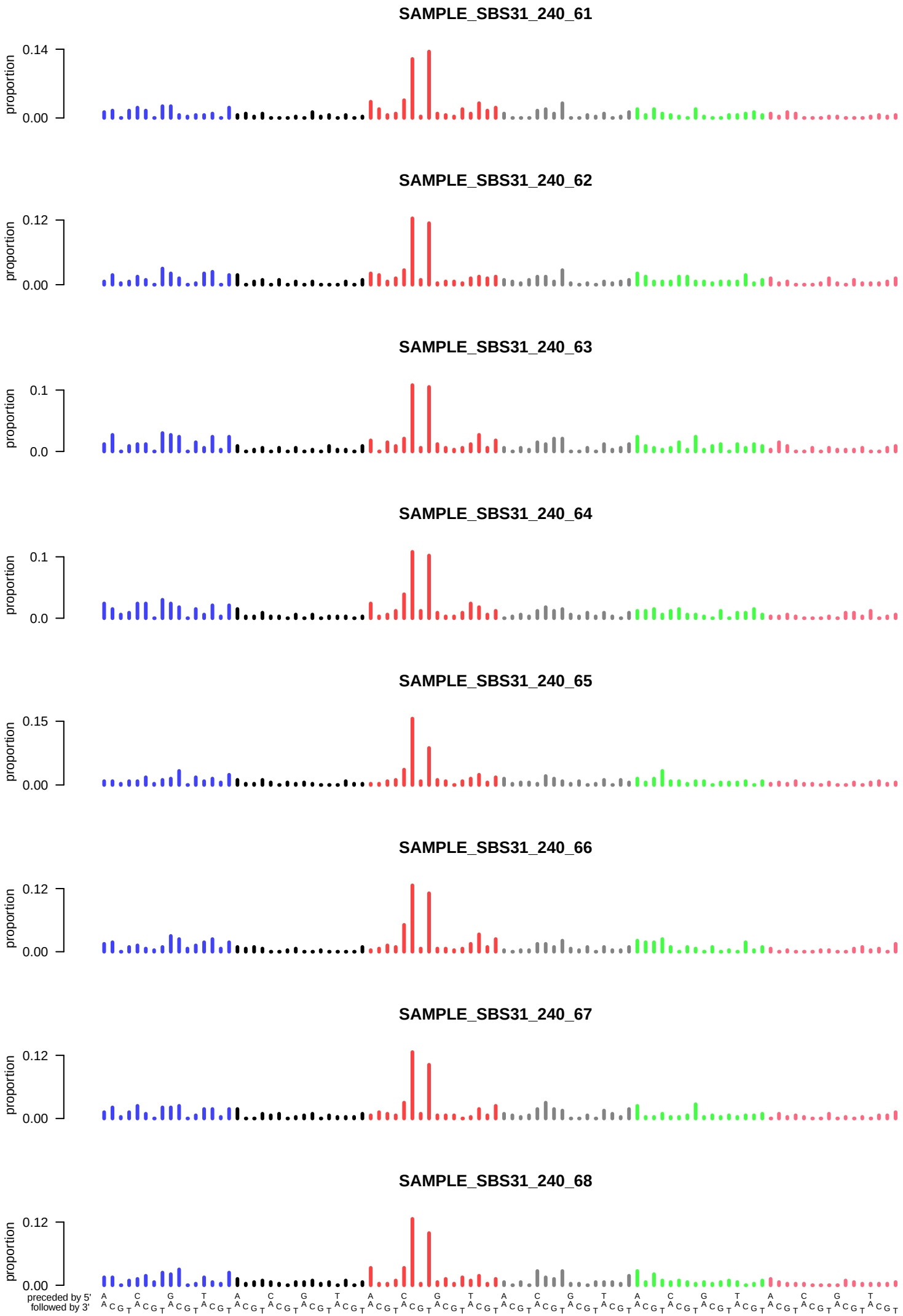
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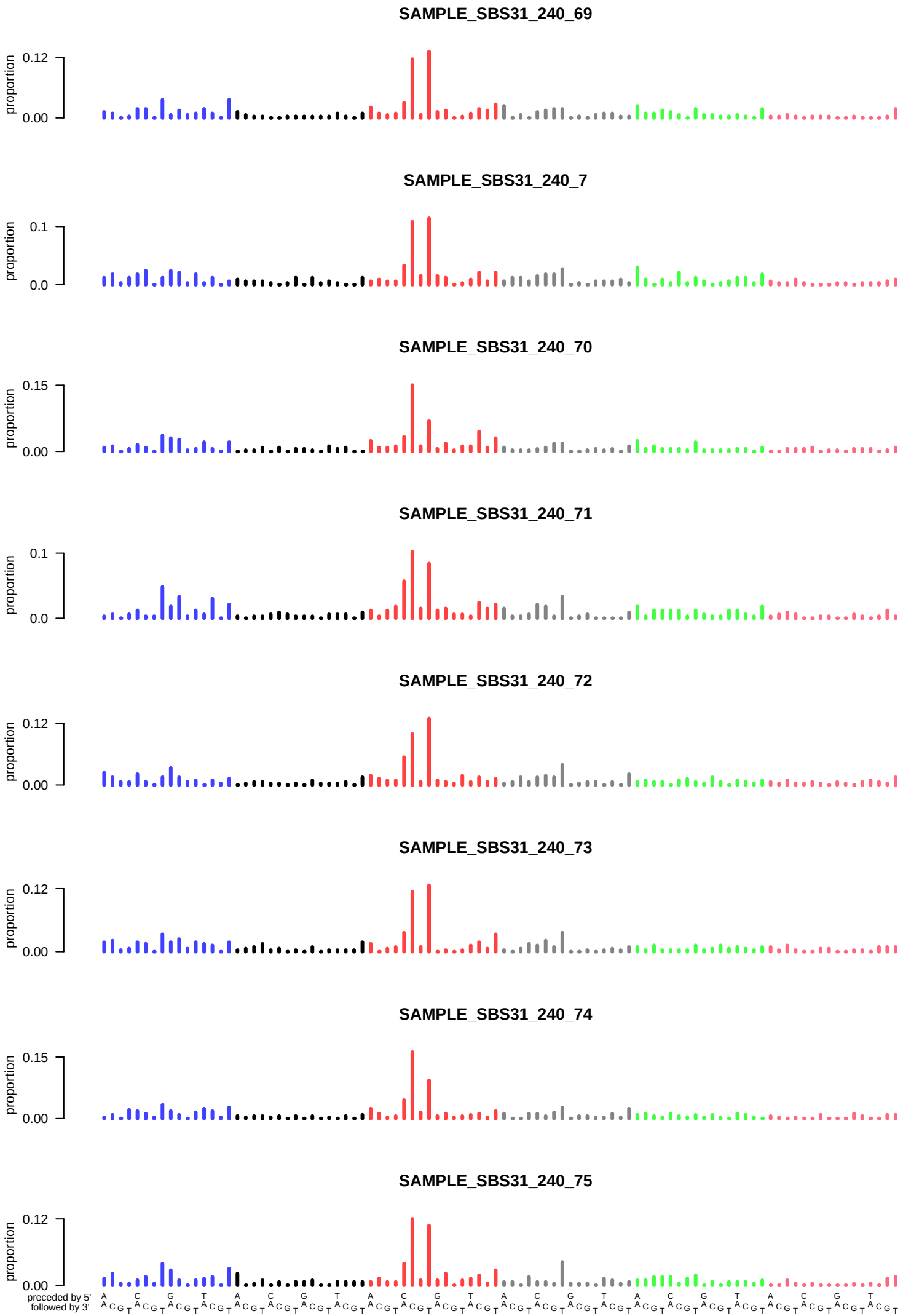
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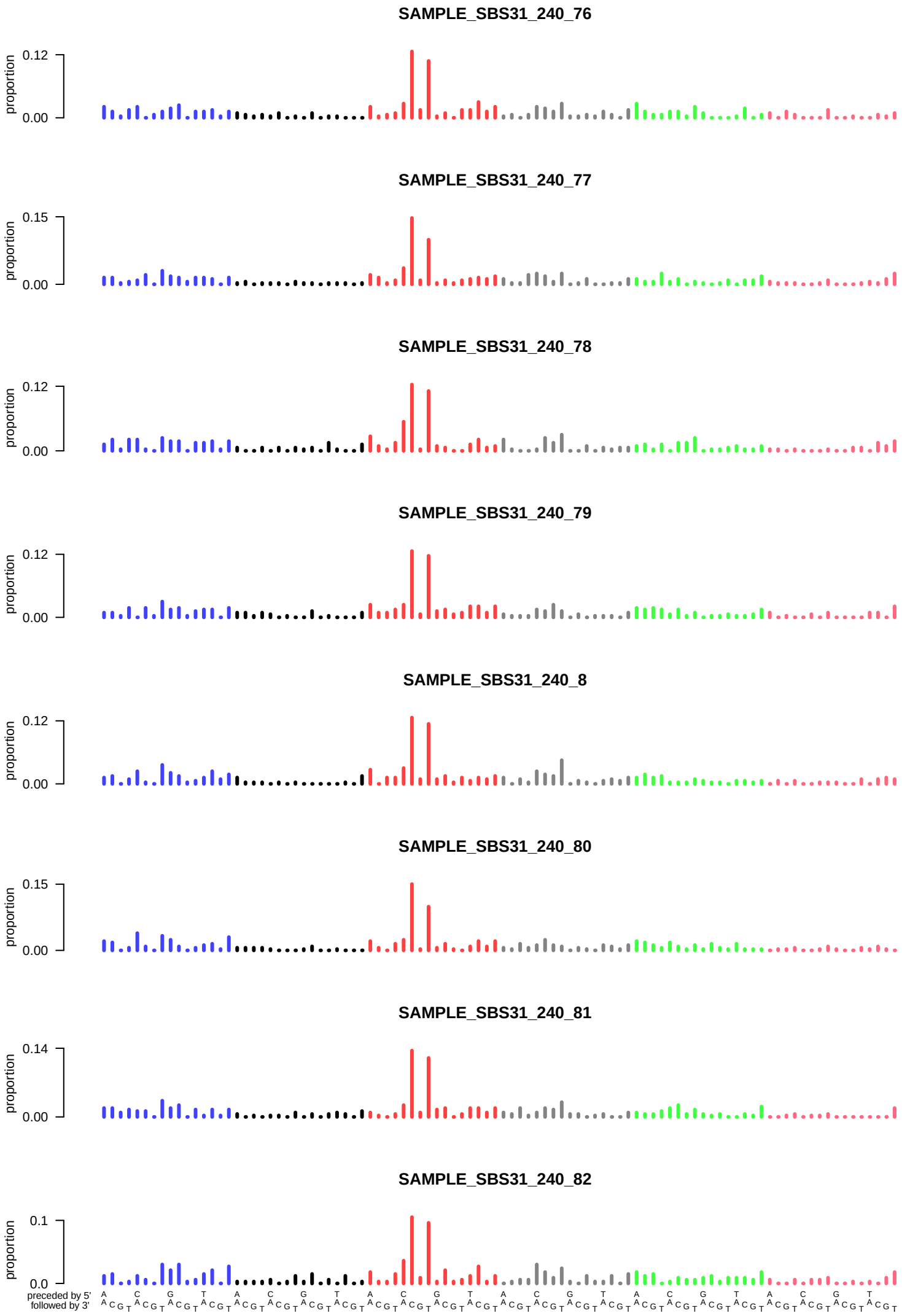
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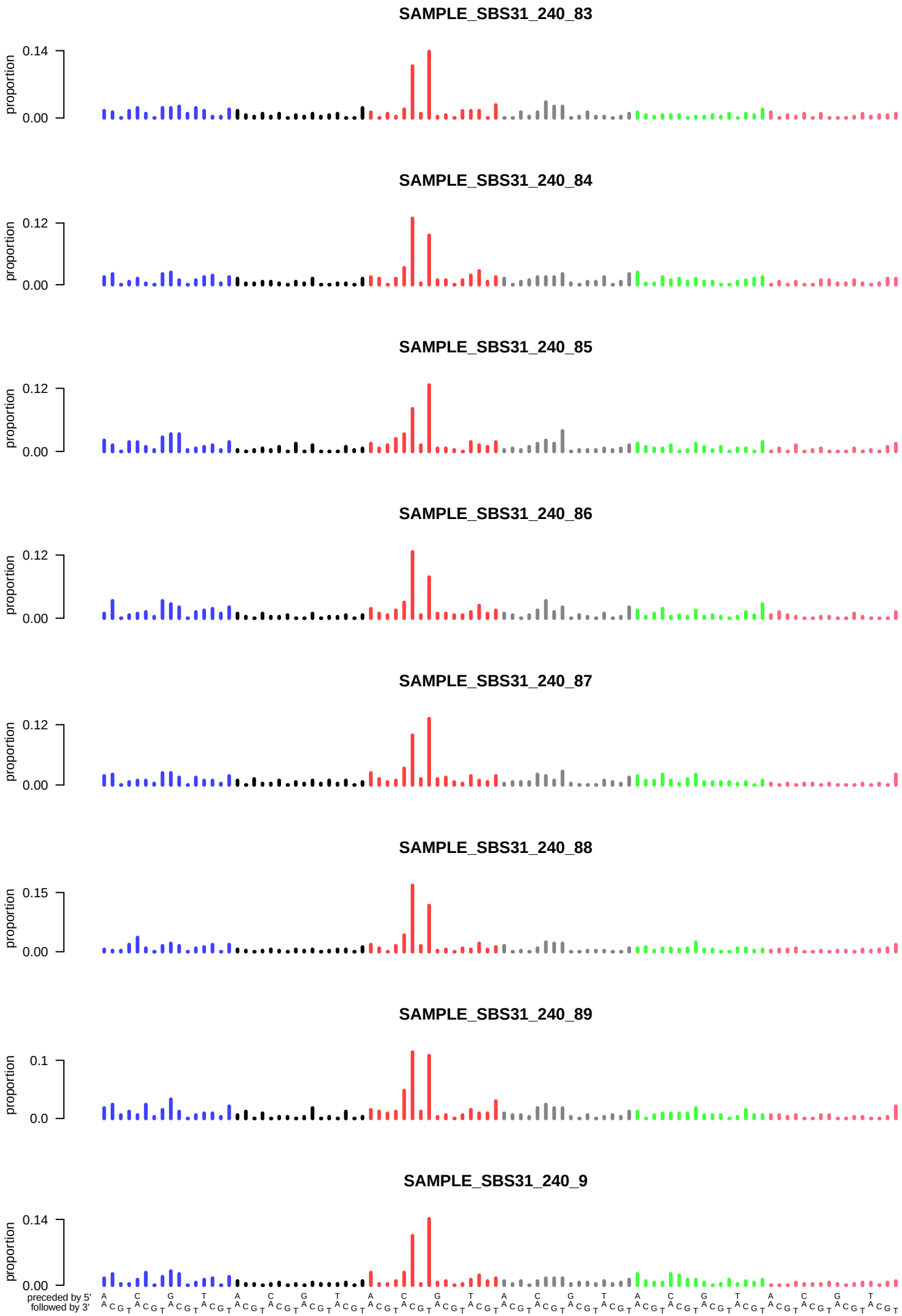
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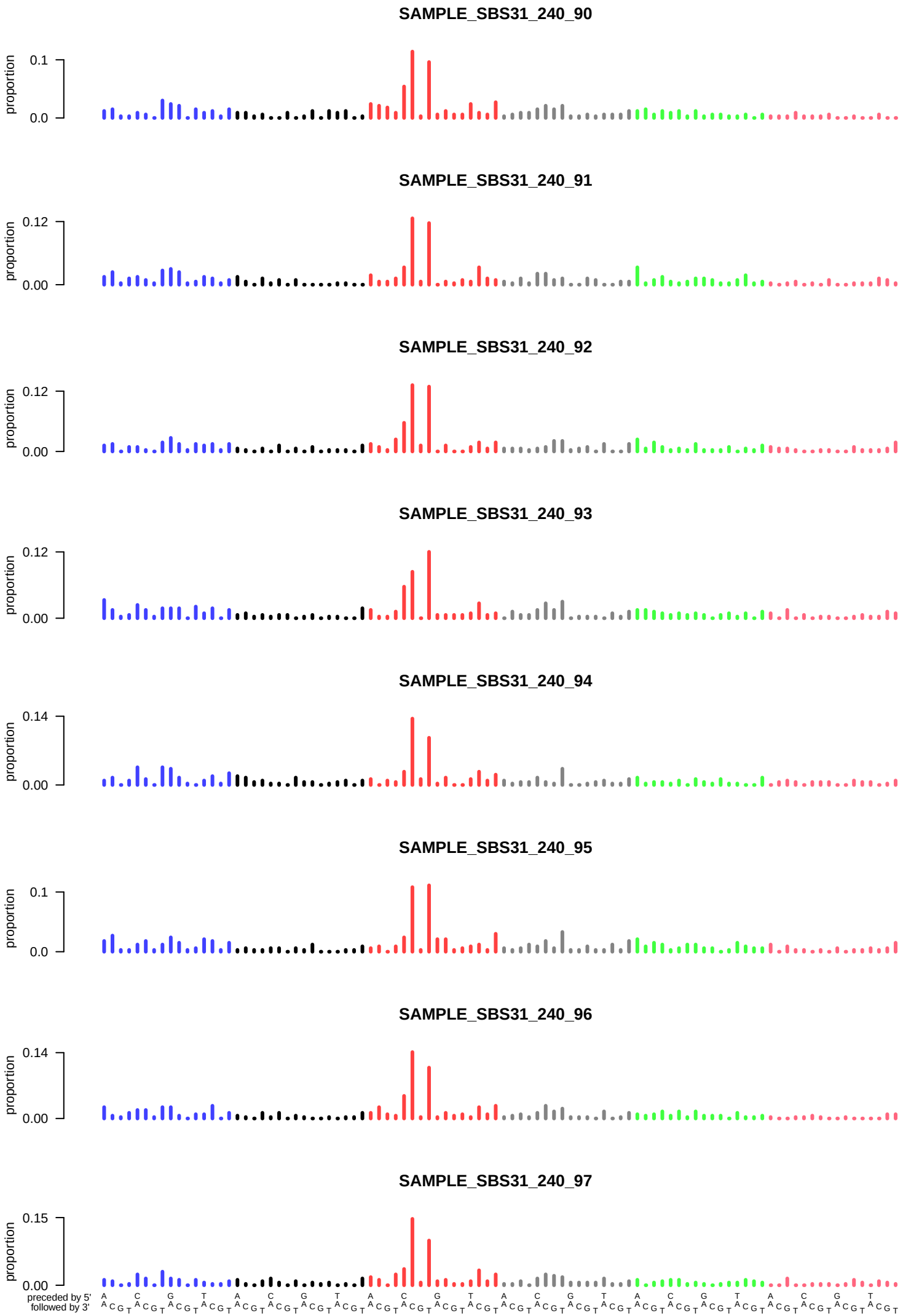
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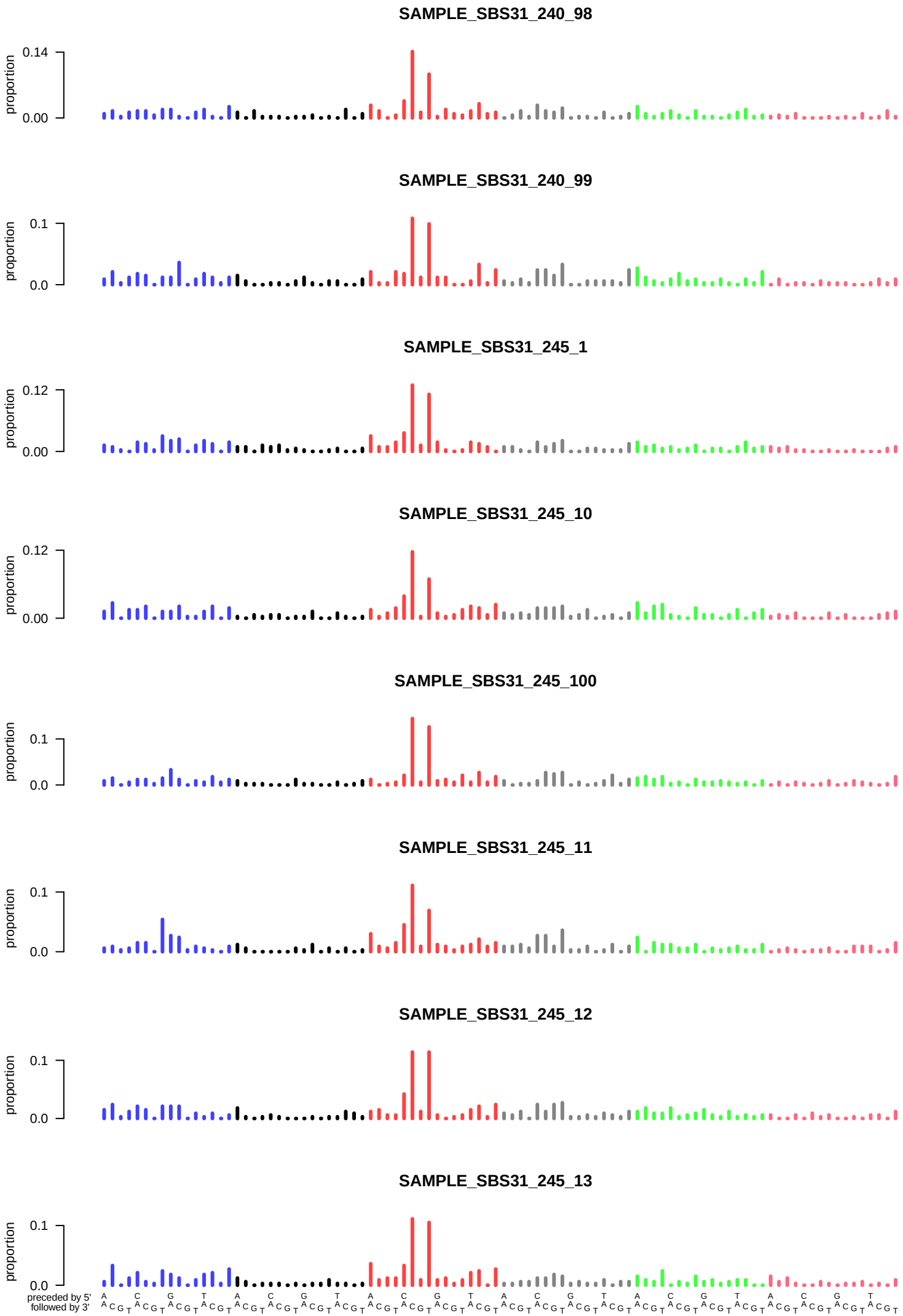
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SAMPLE_SBS31_245_11
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SAMPLE_SBS31_245_12
proportion
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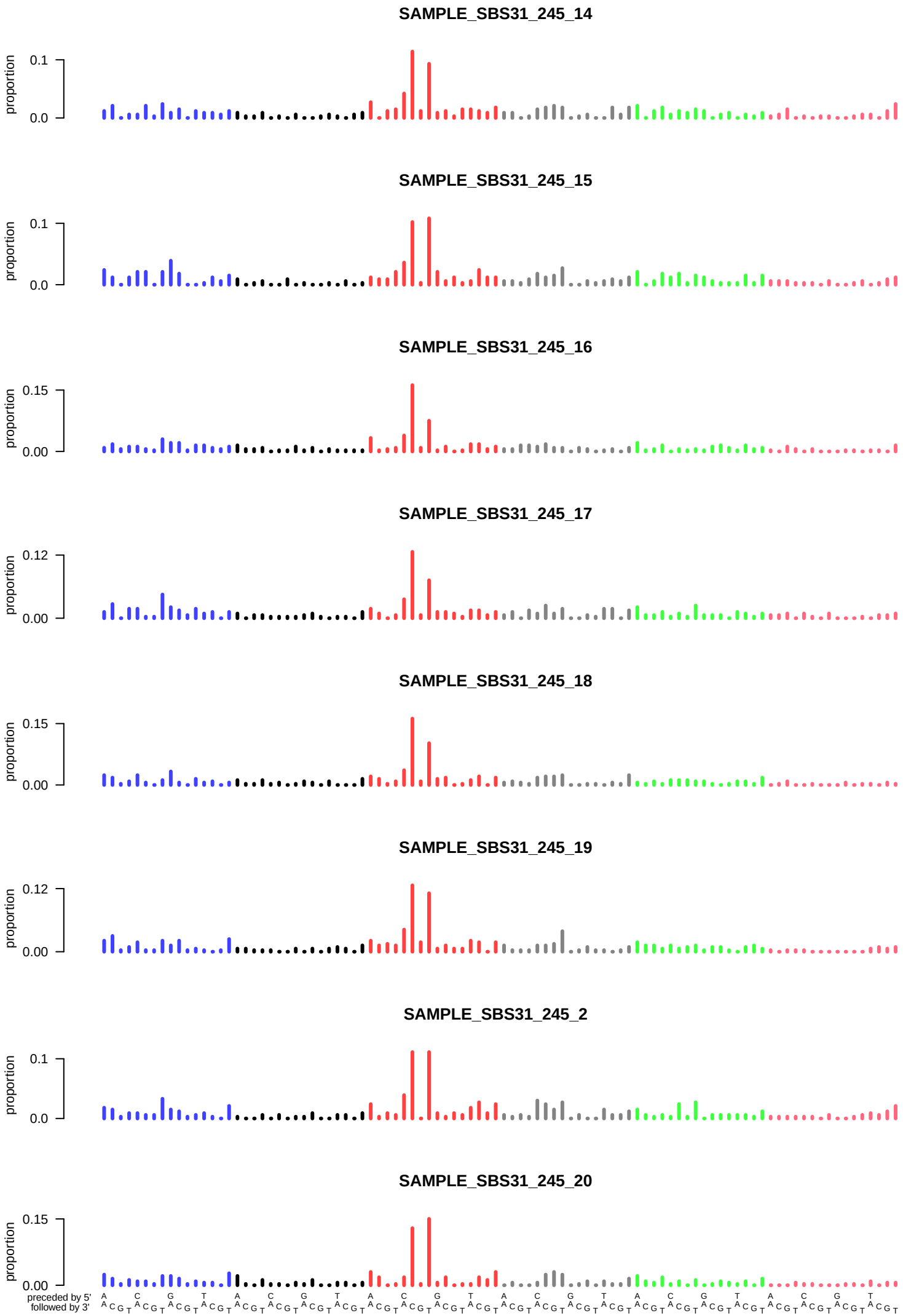
followed by 3'
A C G T A C G T A C G T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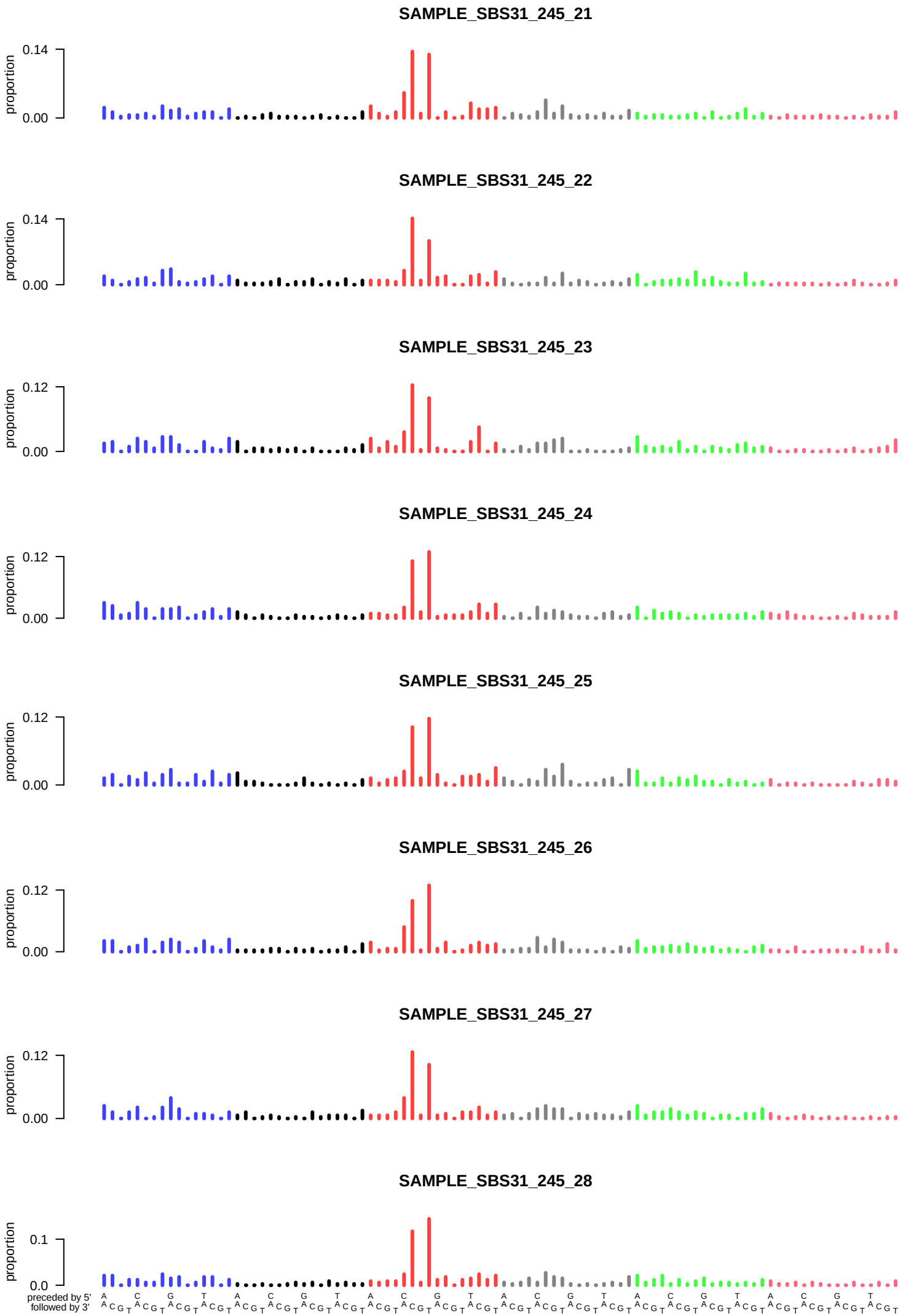
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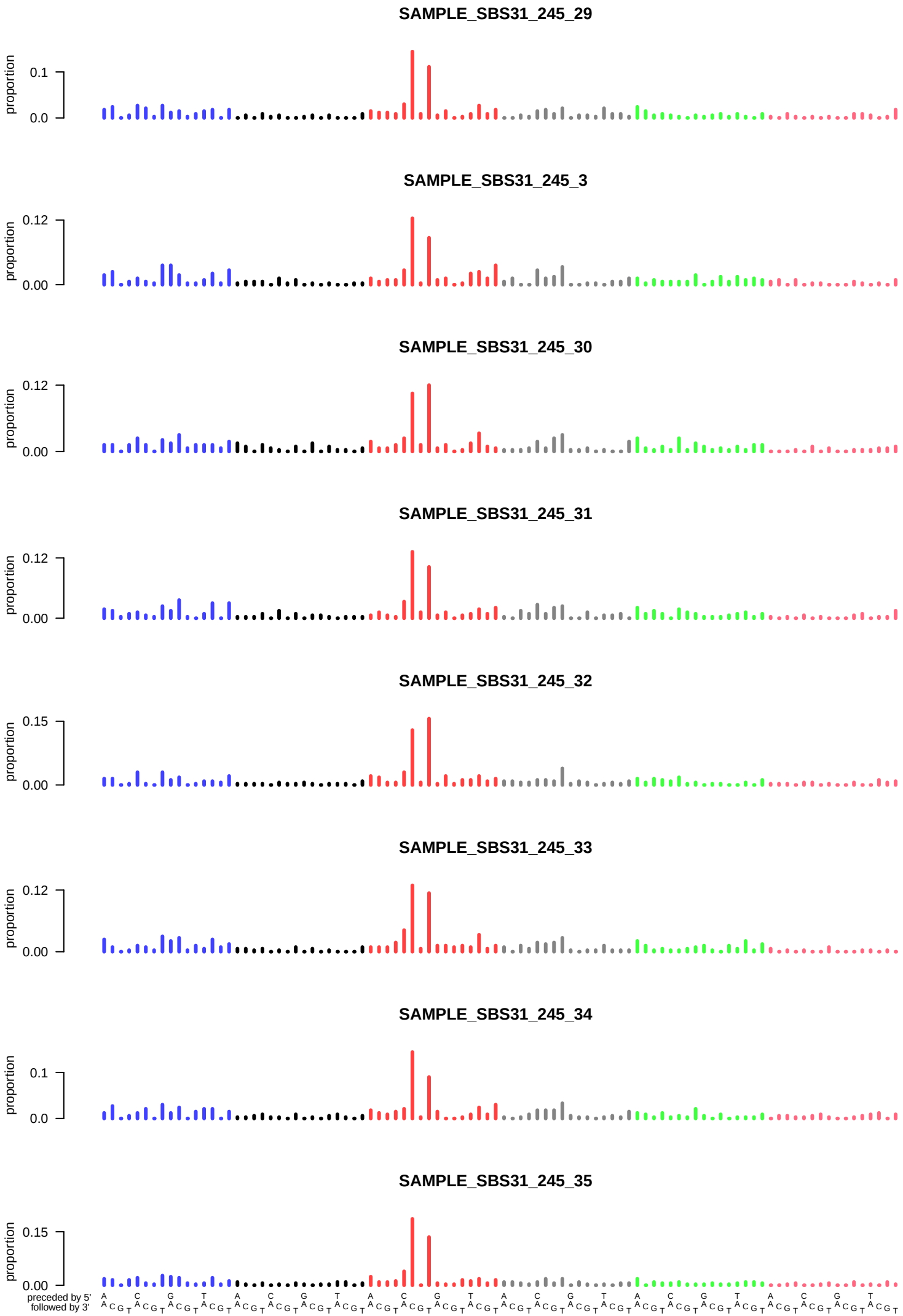
followed by 3'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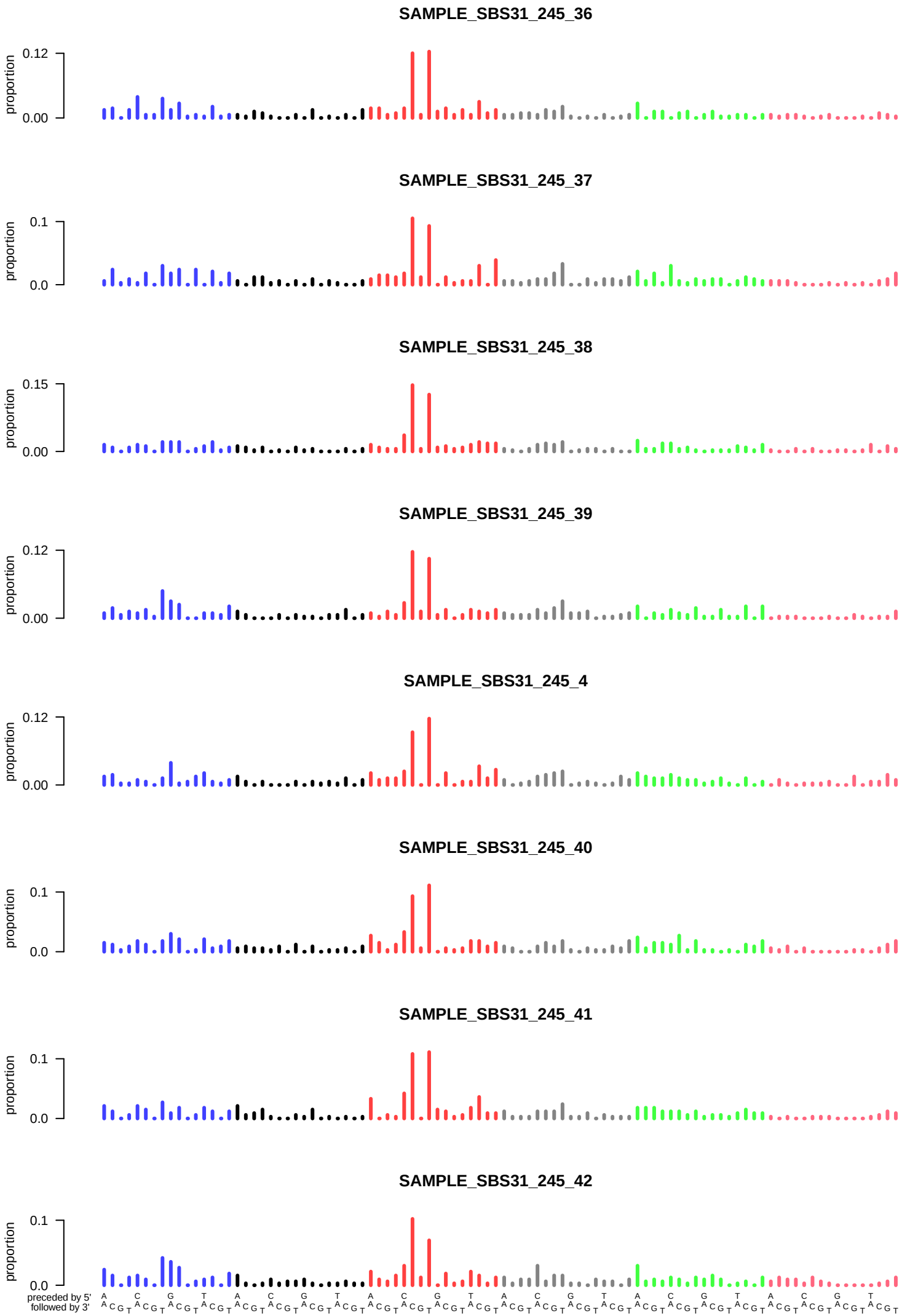
followed by 3'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SAMPLE_SBS31_245_39
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SAMPLE_SBS31_245_4
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SAMPLE_SBS31_245_40
proportion
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SAMPLE_SBS31_245_41
proportion
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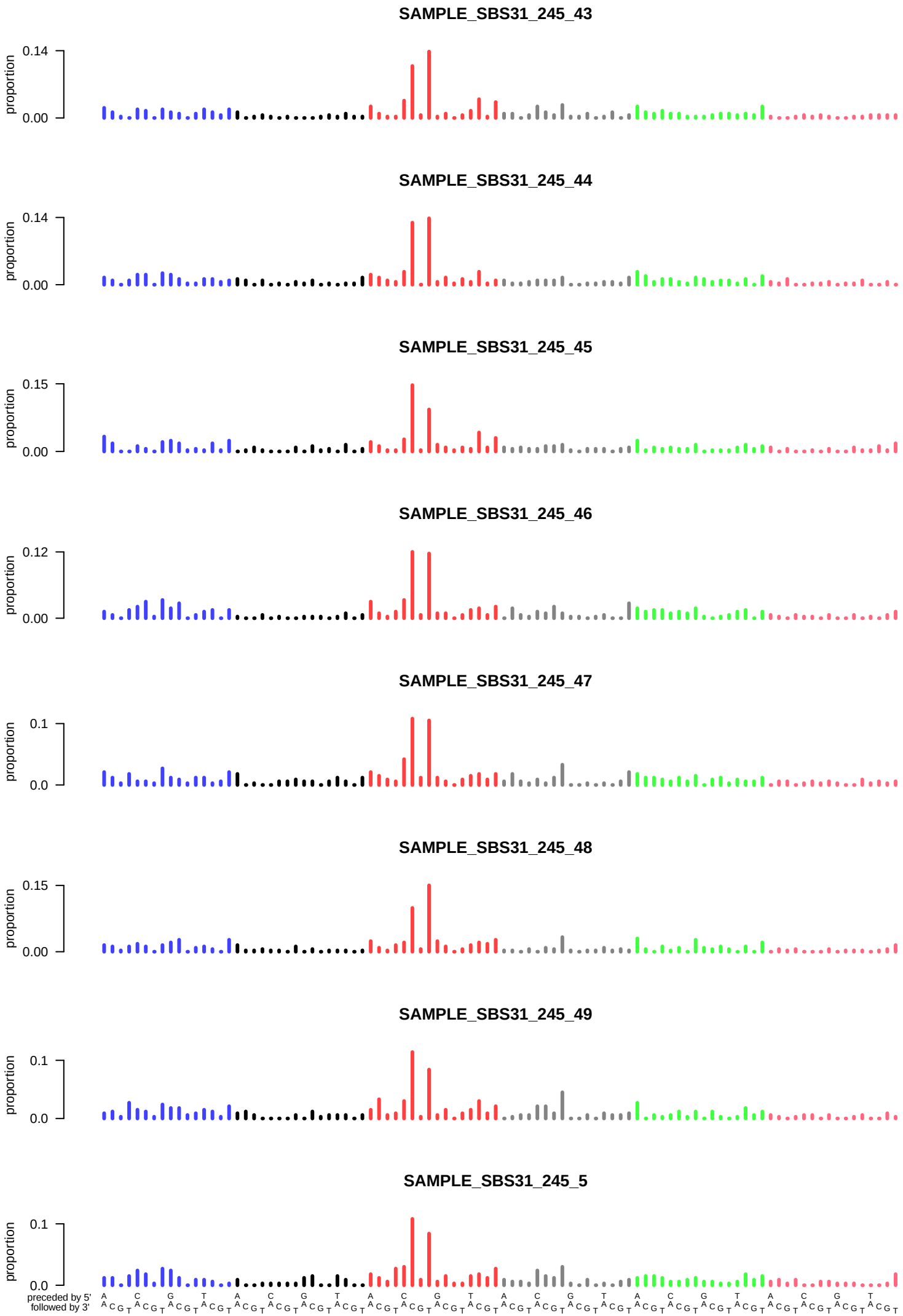
0.0
preceded by 5'
followed by 3'
A C G T A C G T A C G T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SAMPLE_SBS31_245_46
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SAMPLE_SBS31_245_47
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SAMPLE_SBS31_245_48
proportion
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SAMPLE_SBS31_245_49
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SAMPLE_SBS31_245_5
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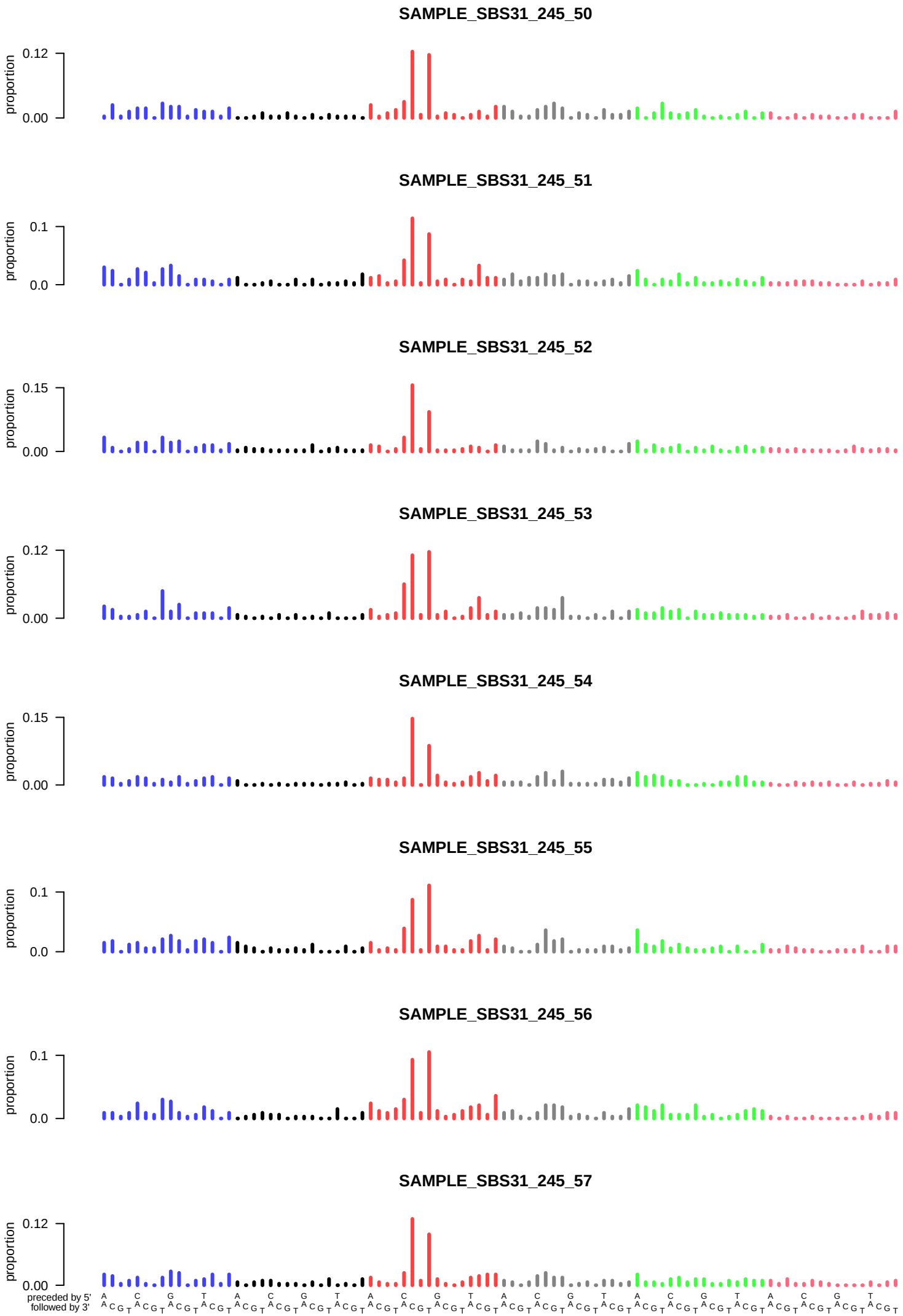
preceded by 5'
followed by 3'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SAMPLE_SBS31_245_54
proportion
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SAMPLE_SBS31_245_55
proportion
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0.0
SAMPLE_SBS31_245_56
proportion
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SAMPLE_SBS31_245_57
proportion
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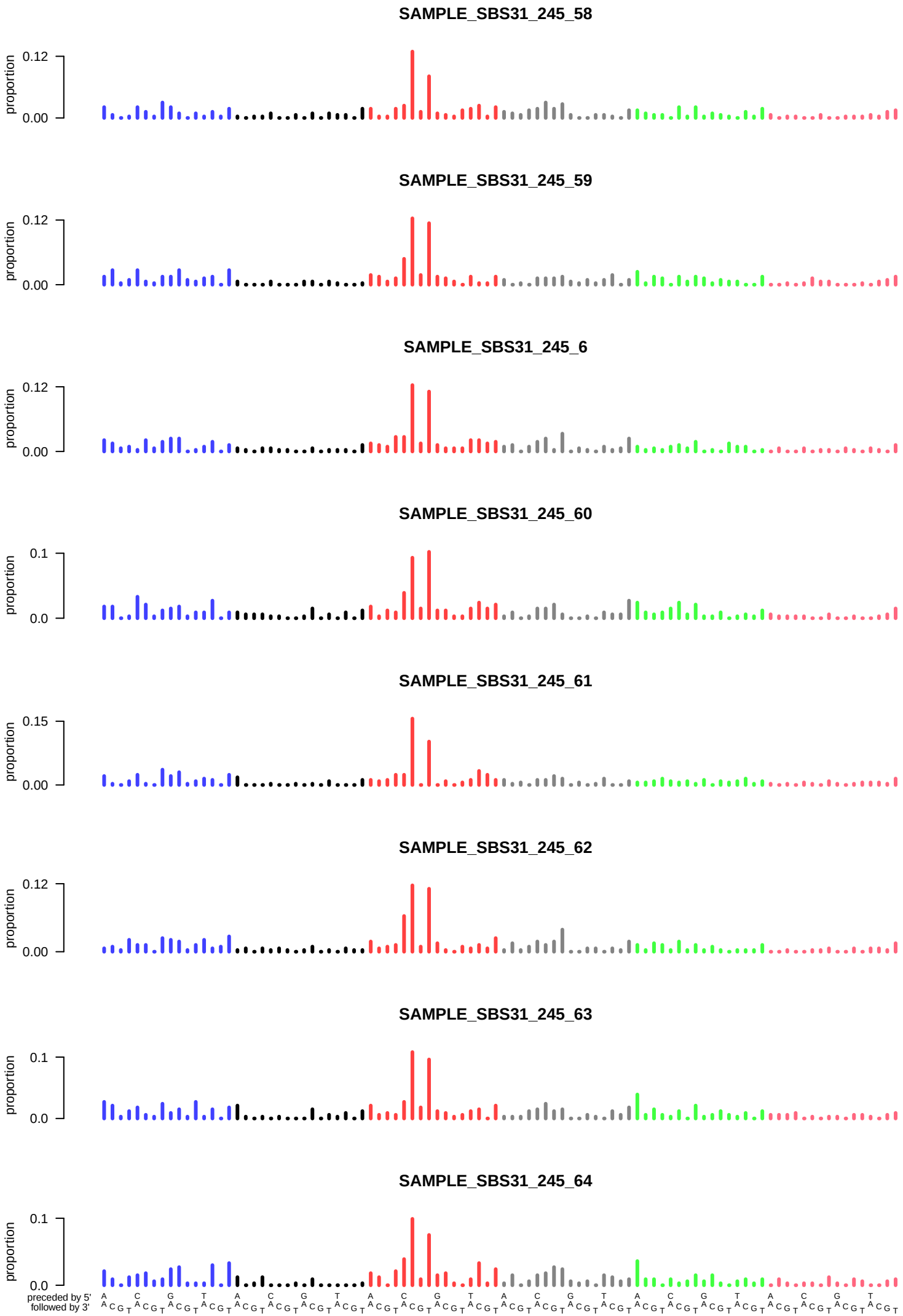
preceded by 5'
followed by 3'
A C G T A C G T A C G T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SAMPLE_SBS31_245_60
proportion
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SAMPLE_SBS31_245_61
proportion
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SAMPLE_SBS31_245_62
proportion
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SAMPLE_SBS31_245_63
proportion
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SAMPLE_SBS31_245_64
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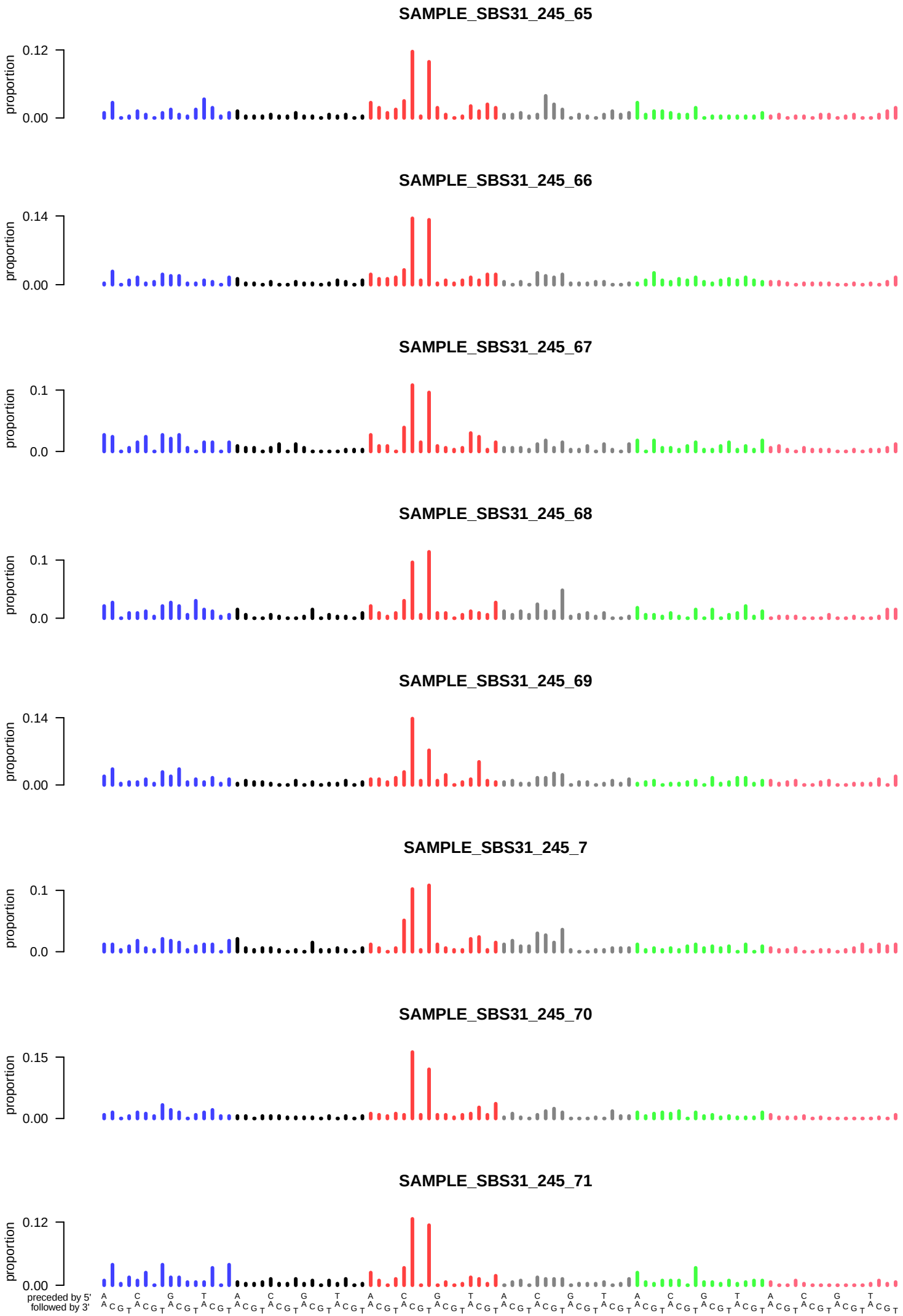
preceded by 5'
followed by 3'
A C G T A C G T A C G T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SAMPLE_SBS31_245_68
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SAMPLE_SBS31_245_69
proportion
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SAMPLE_SBS31_245_7
proportion
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0.0
SAMPLE_SBS31_245_70
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SAMPLE_SBS31_245_71
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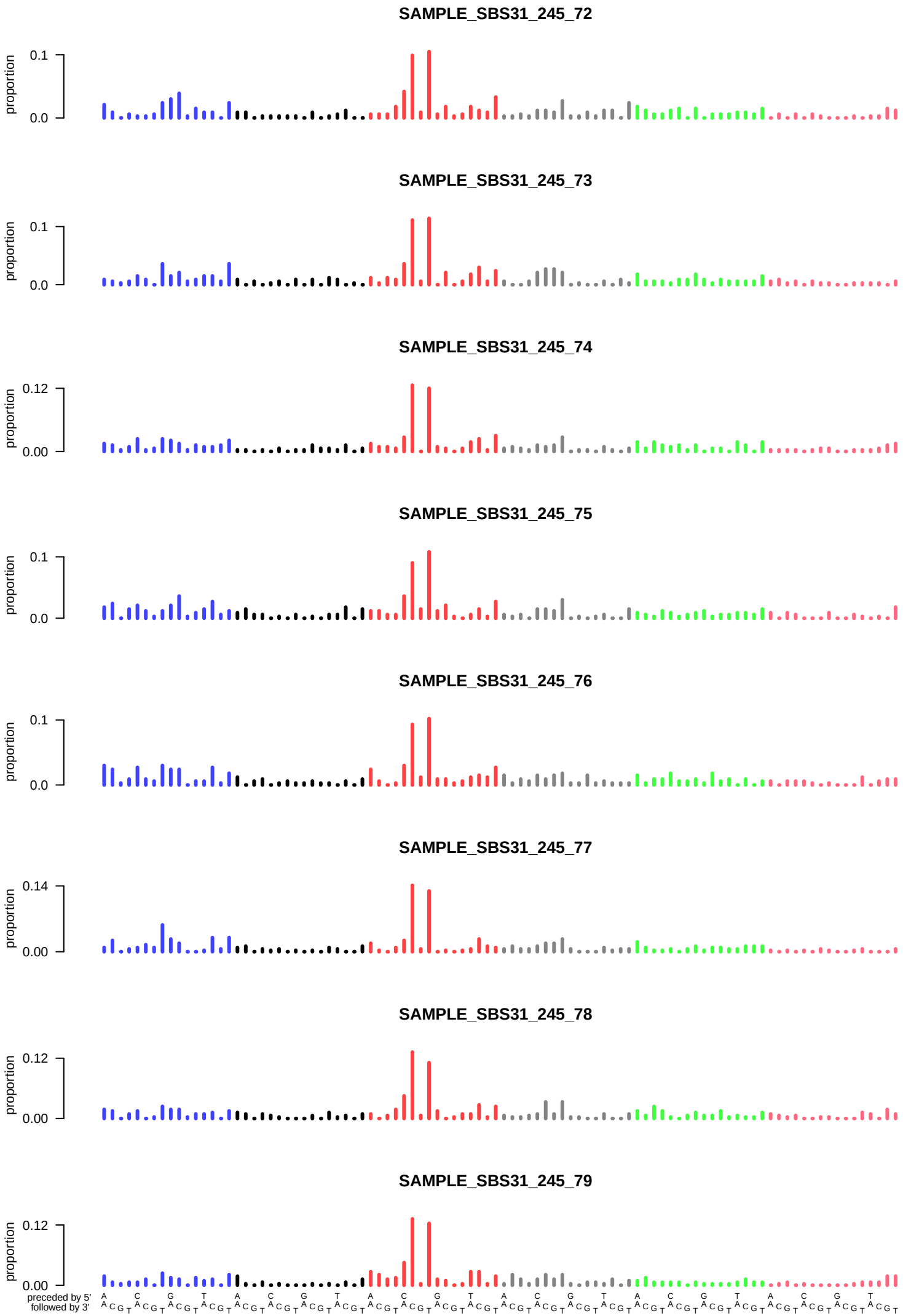
preceded by 5'
followed by 3'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SAMPLE_SBS31_245_75
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SAMPLE_SBS31_245_76
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SAMPLE_SBS31_245_77
proportion
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SAMPLE_SBS31_245_78
proportion
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SAMPLE_SBS31_245_79
proportion
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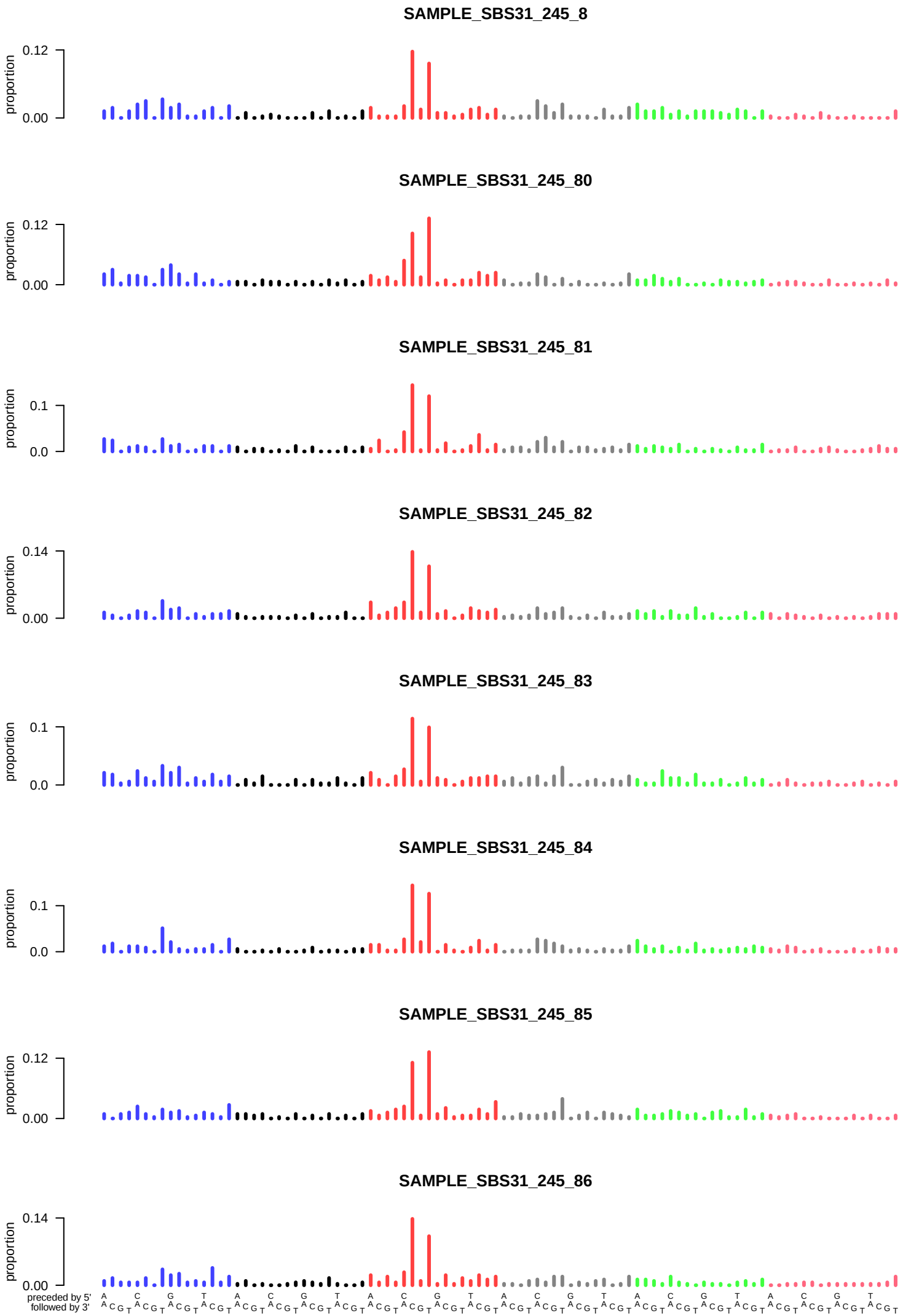
preceded by 5'
followed by 3'
A C G T A C G T A C G T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SAMPLE_SBS31_245_82
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SAMPLE_SBS31_245_83
proportion
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SAMPLE_SBS31_245_84
proportion
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SAMPLE_SBS31_245_85
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SAMPLE_SBS31_245_86
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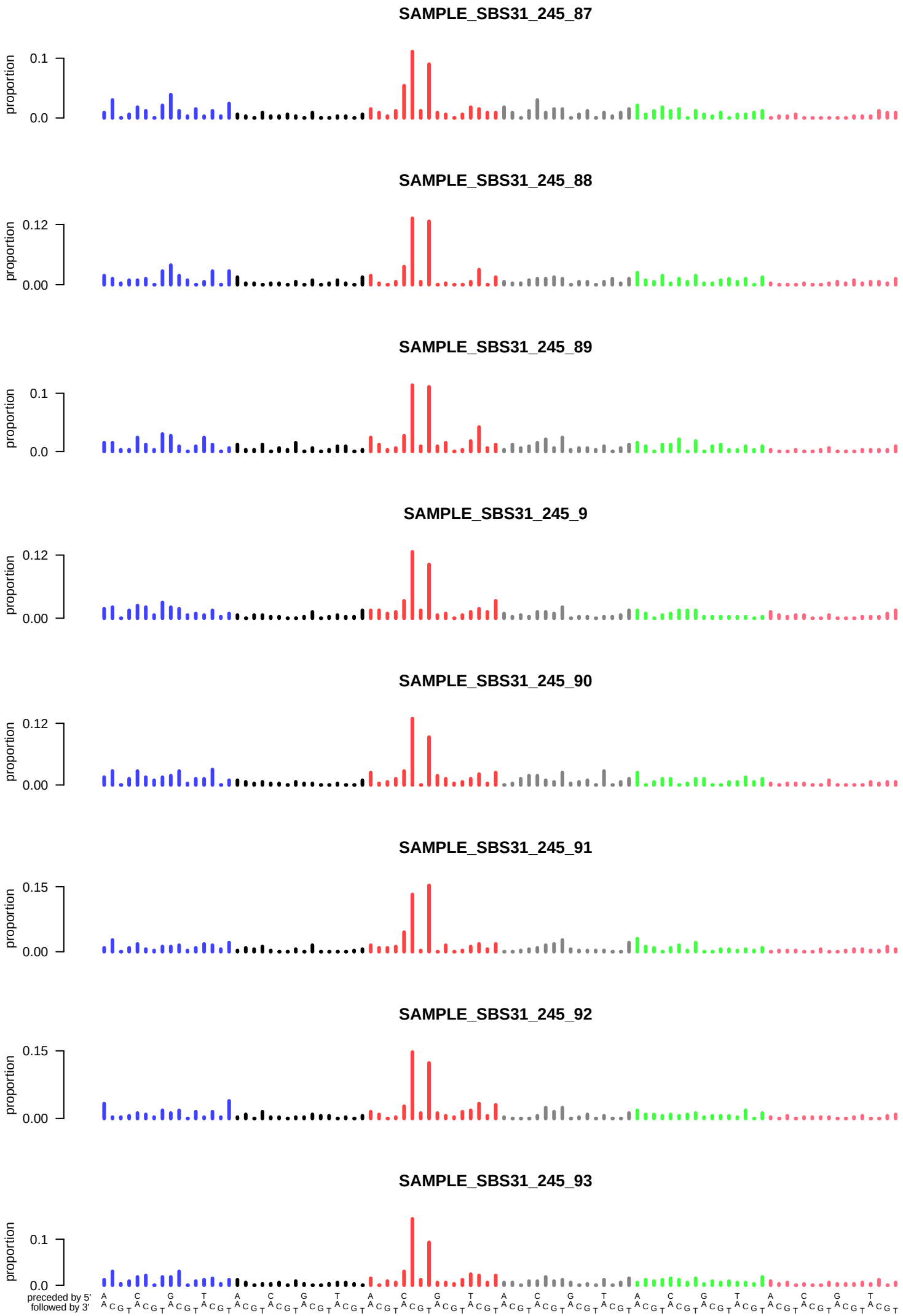
preceded by 5'
followed by 3'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SAMPLE_SBS31_245_9
proportion
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SAMPLE_SBS31_245_90
proportion
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SAMPLE_SBS31_245_91
proportion
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0.00
SAMPLE_SBS31_245_92
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SAMPLE_SBS31_245_93
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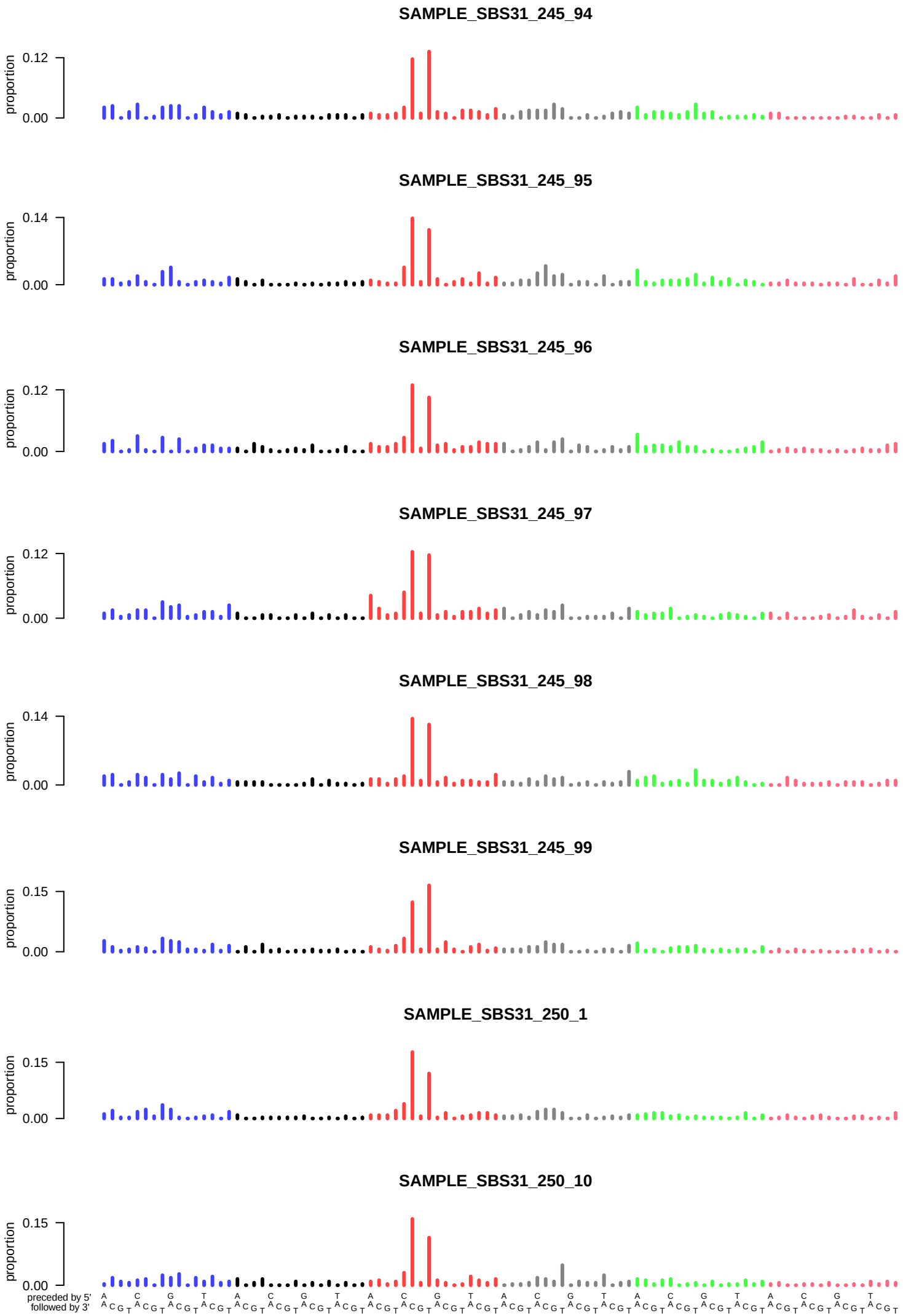
preceded by 5'
followed by 3'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SAMPLE_SBS31_245_96
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SAMPLE_SBS31_245_97
proportion
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SAMPLE_SBS31_245_98
proportion
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SAMPLE_SBS31_245_99
proportion
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SAMPLE_SBS31_250_1
proportion
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proportion
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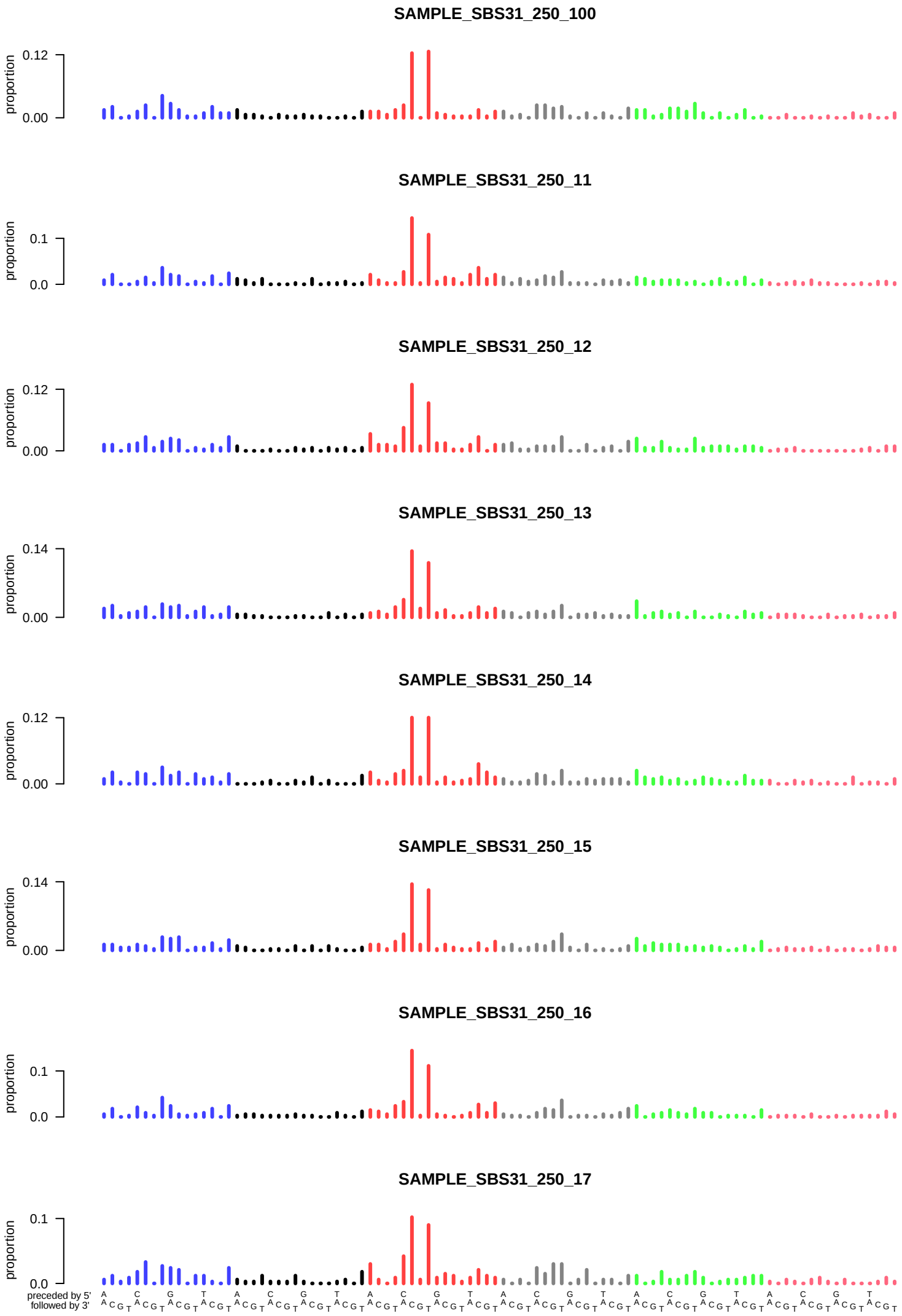
preceded by 5'
followed by 3'
A C G T A C G T A C G T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proportion
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SAMPLE_SBS31_250_14
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SAMPLE_SBS31_250_15
proportion
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SAMPLE_SBS31_250_16
proportion
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SAMPLE_SBS31_250_17
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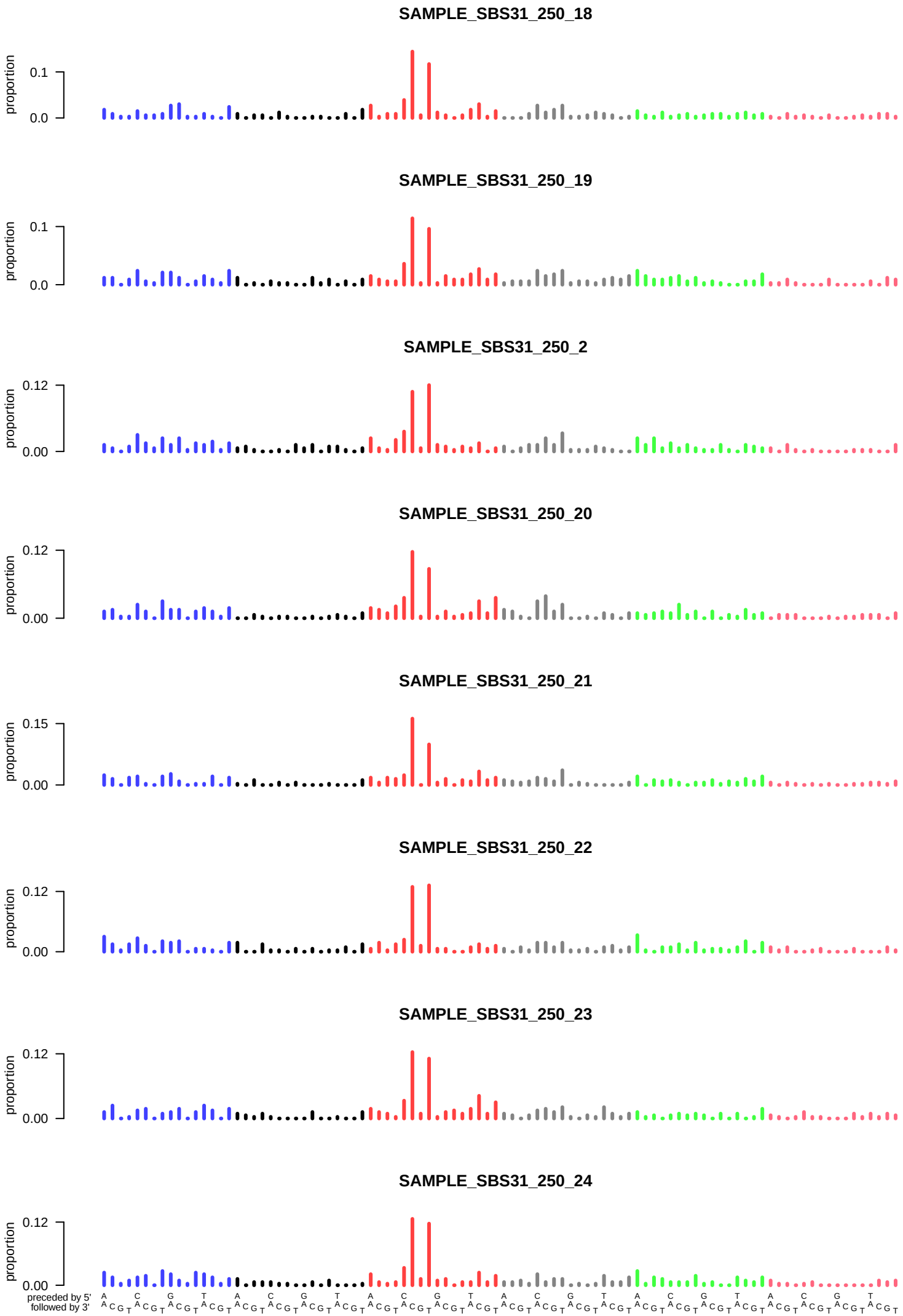
preceded by 5'
followed by 3'
A C G T A C G T A C G T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SAMPLE_SBS31_250_2
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SAMPLE_SBS31_250_20
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SAMPLE_SBS31_250_21
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SAMPLE_SBS31_250_22
proportion
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SAMPLE_SBS31_250_23
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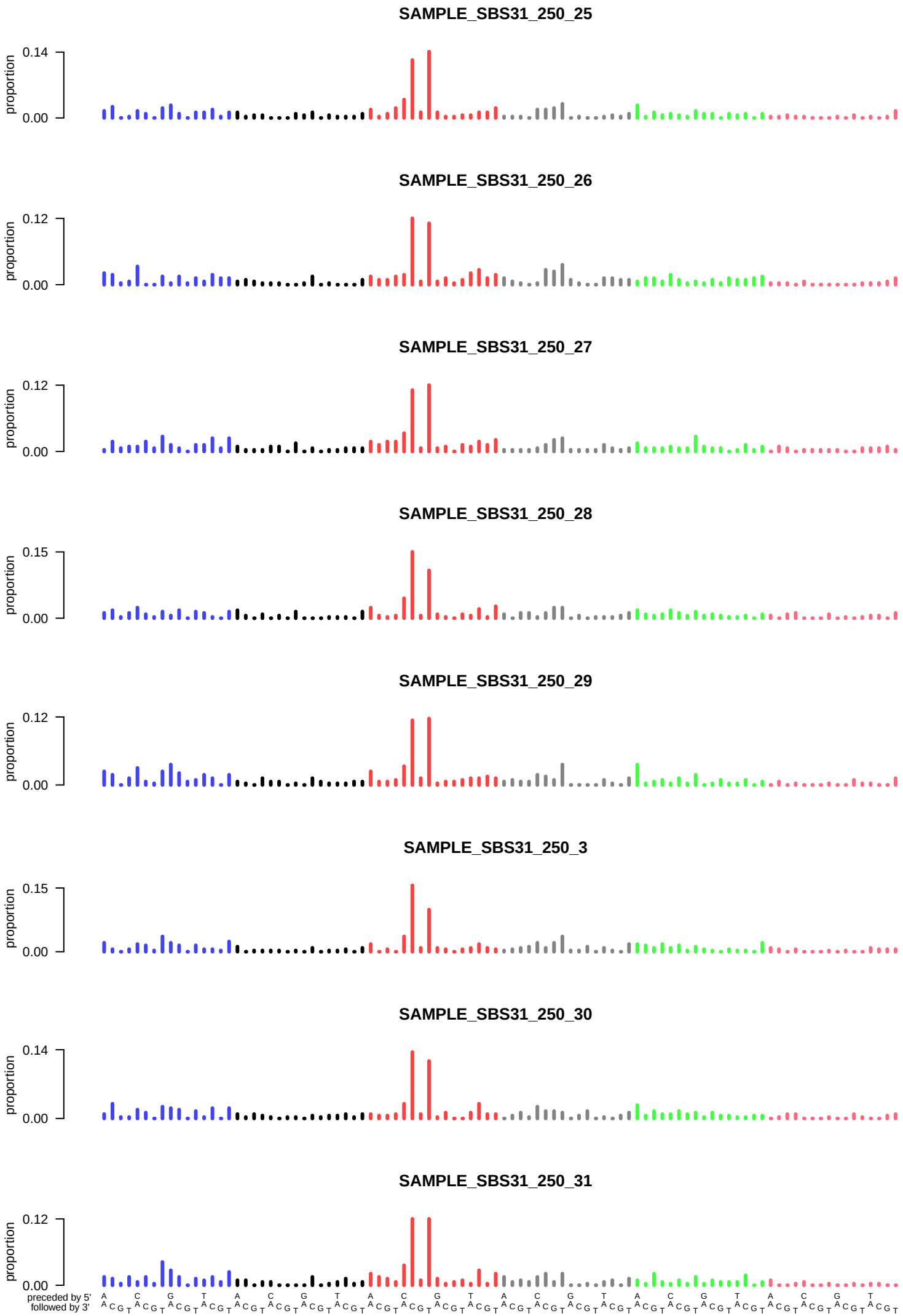
preceded by 5'
followed by 3'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SAMPLE_SBS31_250_29
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SAMPLE_SBS31_250_3
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SAMPLE_SBS31_250_30
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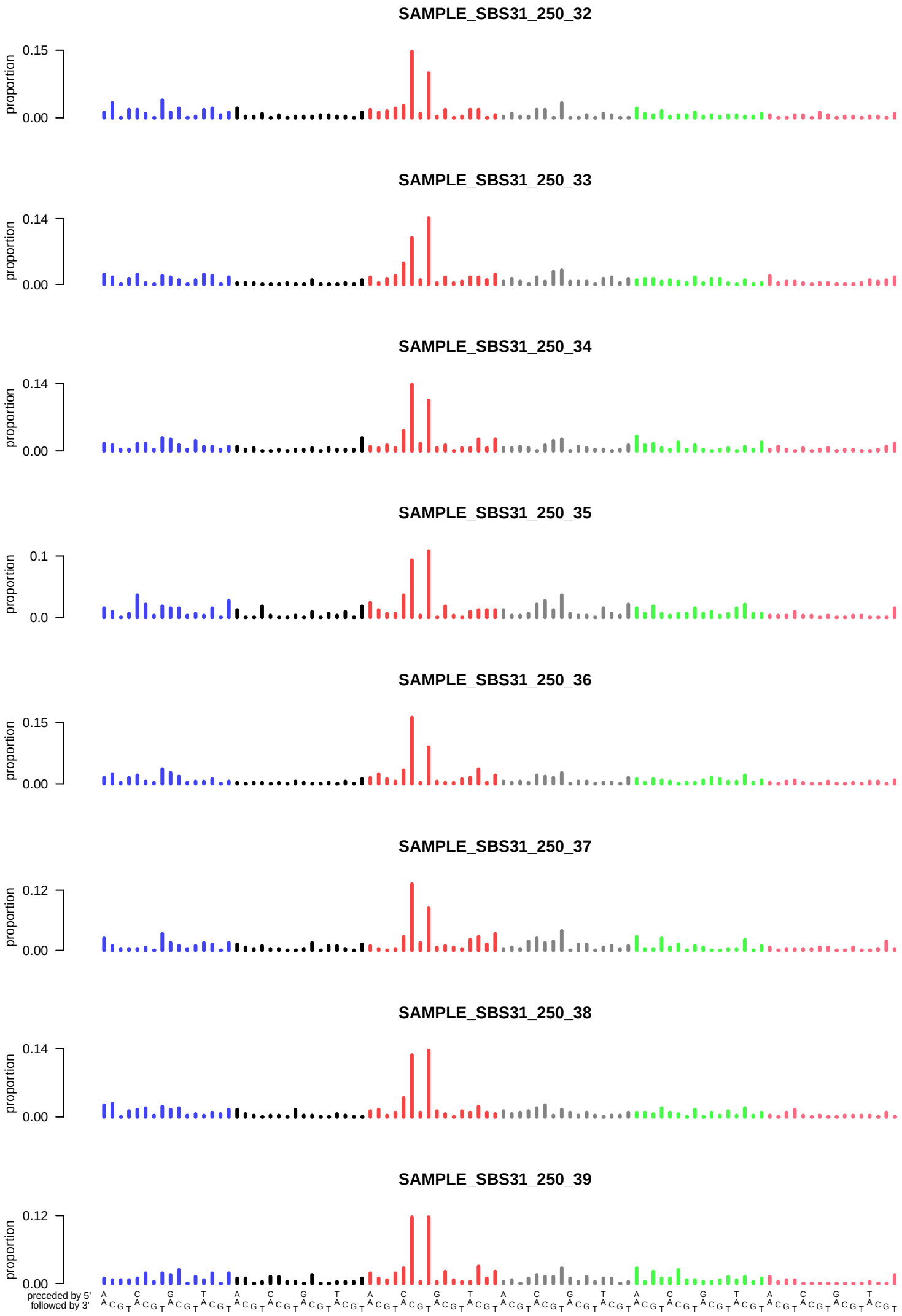
followed by 3'
A C G T A C G T A C G T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SAMPLE_SBS31_250_37
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SAMPLE_SBS31_250_38
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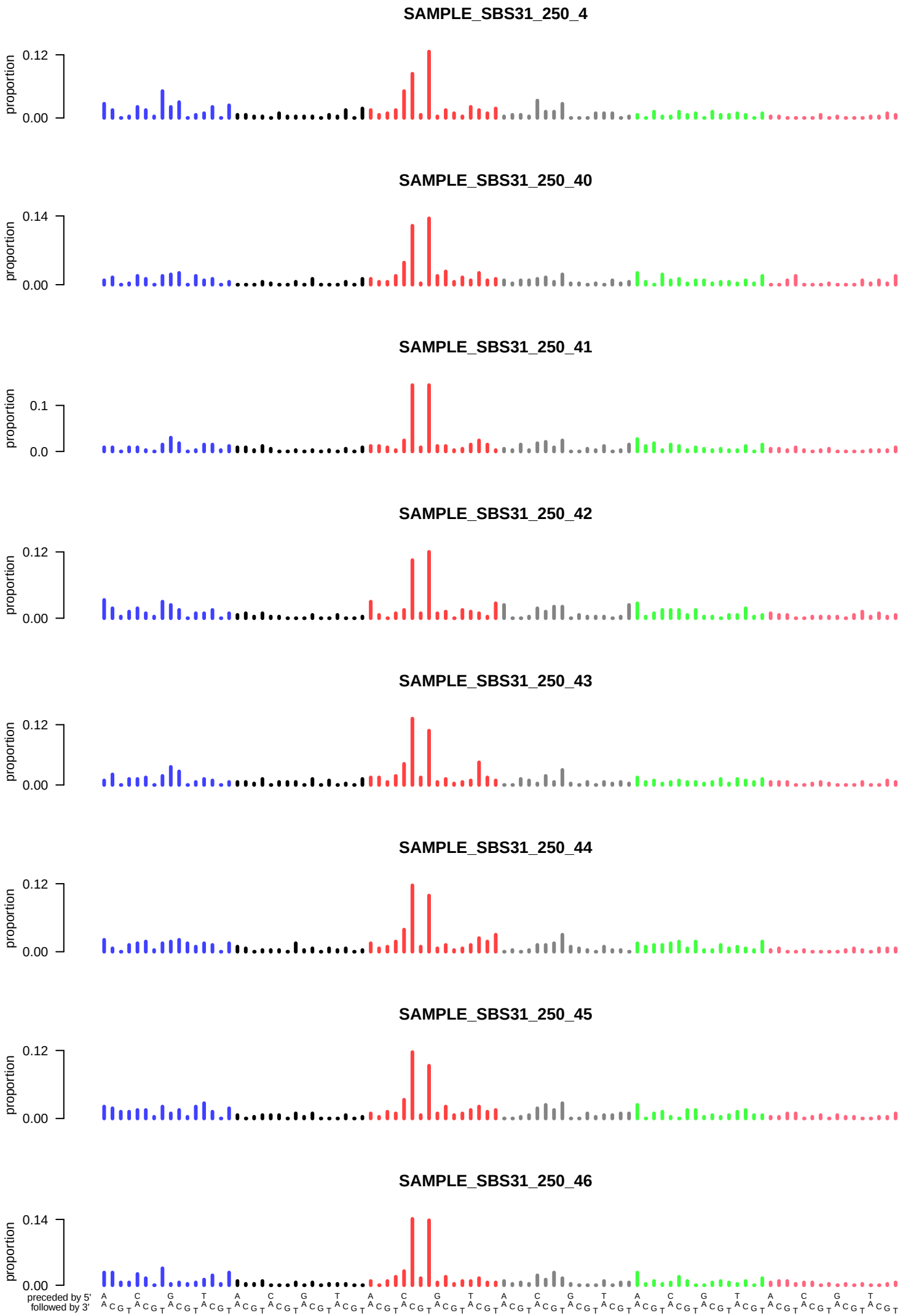
preceded by 5'
followed by 3'
A C G T A C G T A C G T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SAMPLE_SBS31_250_45
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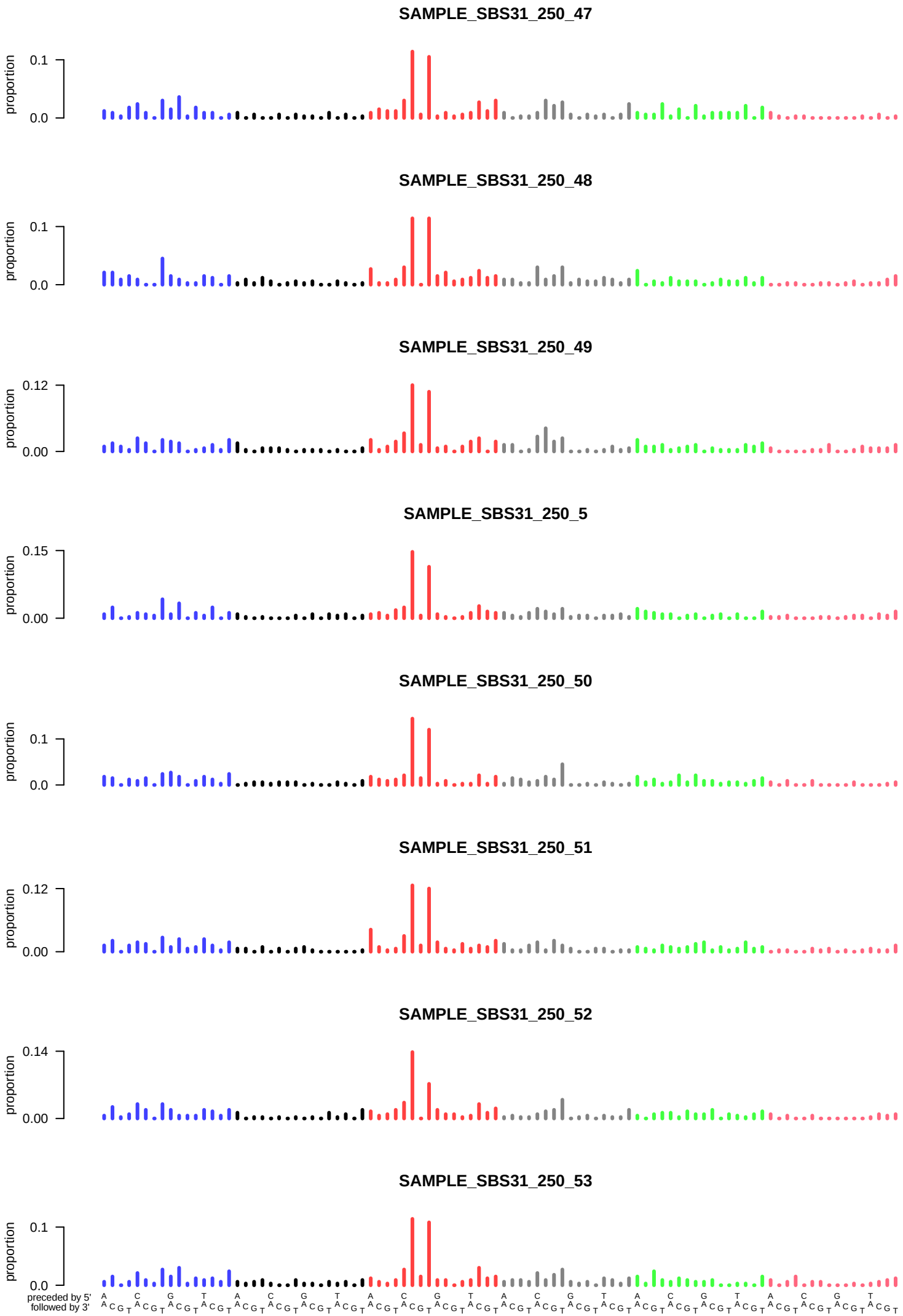
followed by 3'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SAMPLE_SBS31_250_49
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SAMPLE_SBS31_250_5
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SAMPLE_SBS31_250_51
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SAMPLE_SBS31_250_52
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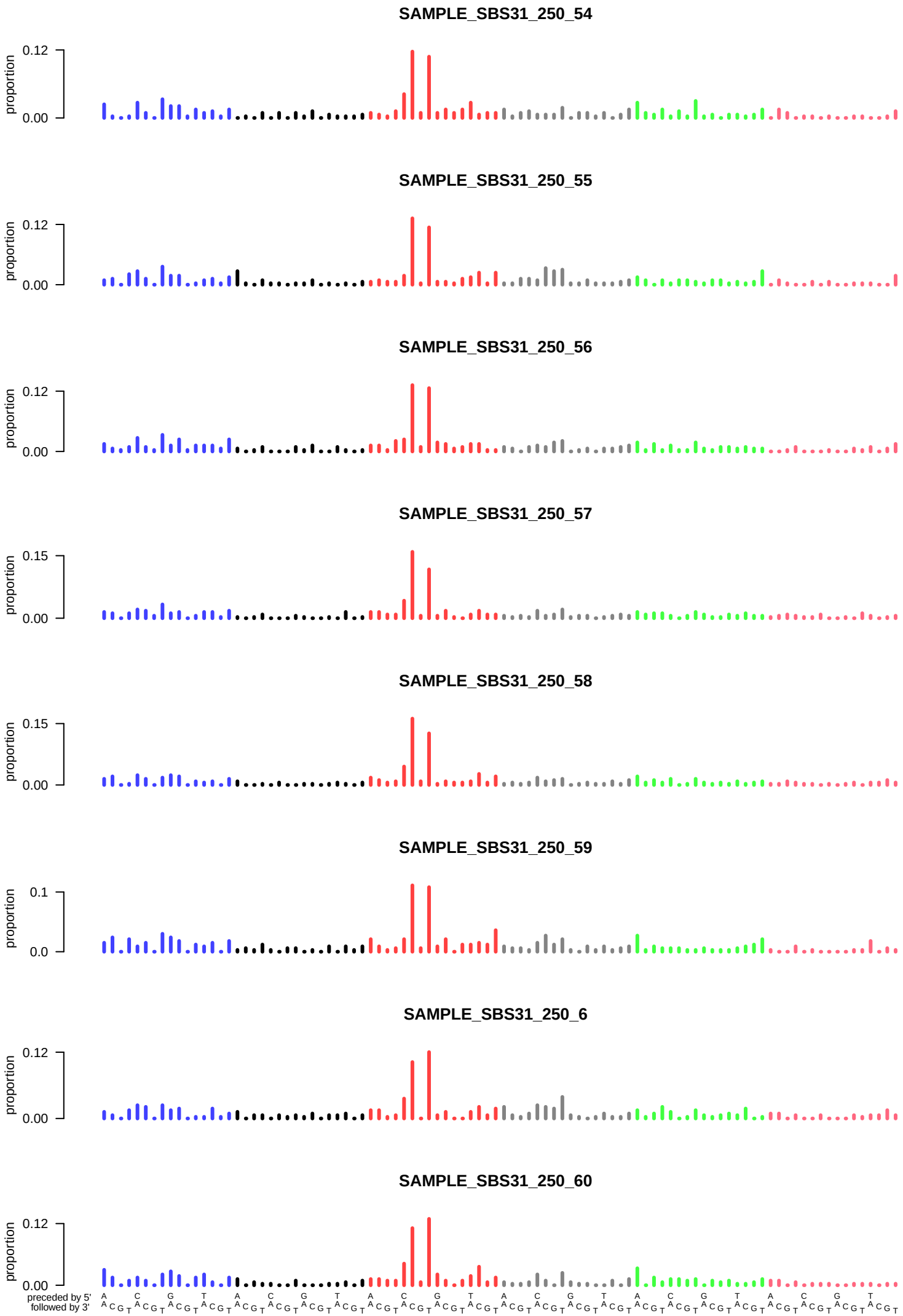
followed by 3'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SAMPLE_SBS31_250_6
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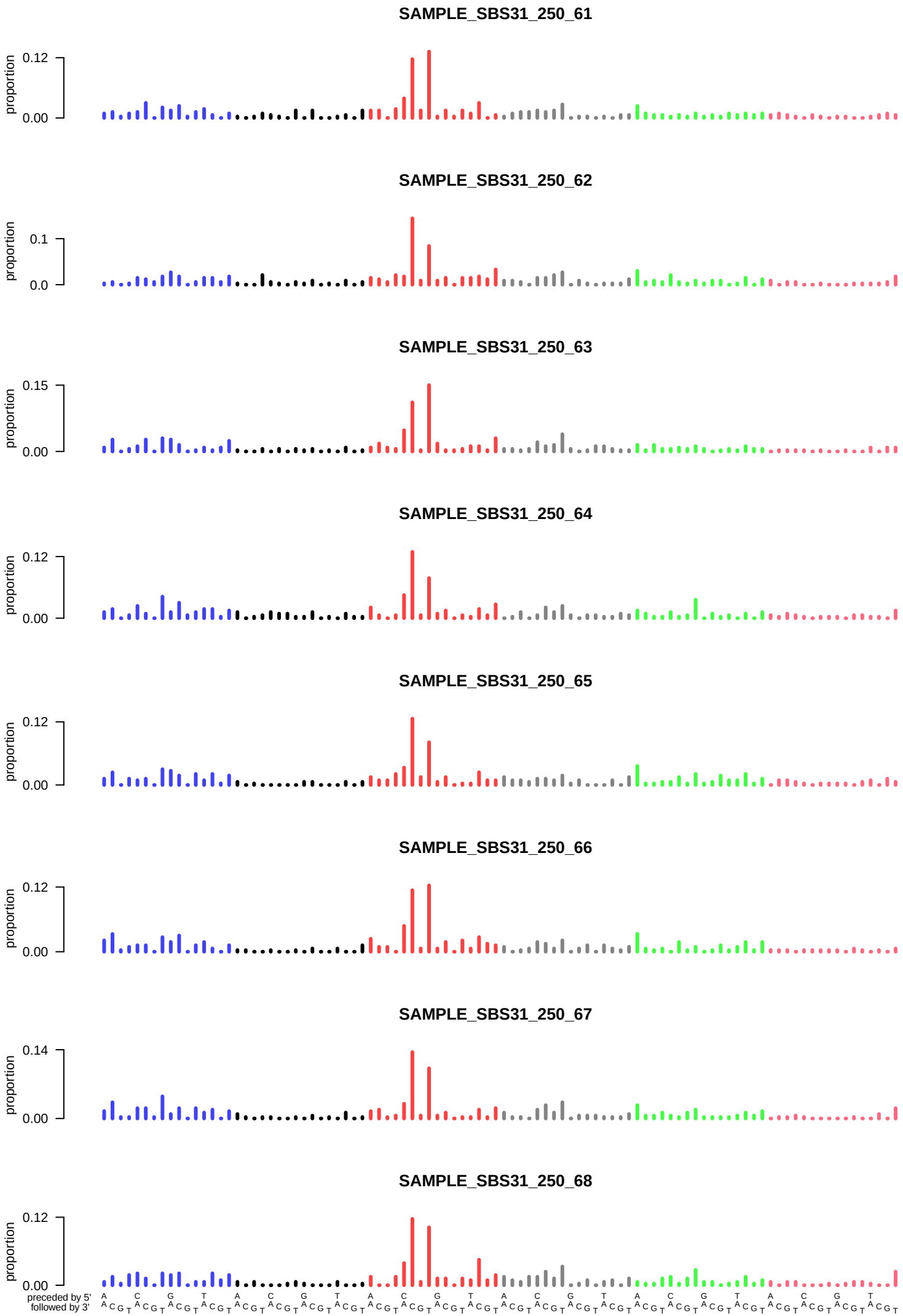
followed by 3'
A C G T A C G T A C G T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SAMPLE_SBS31_250_67
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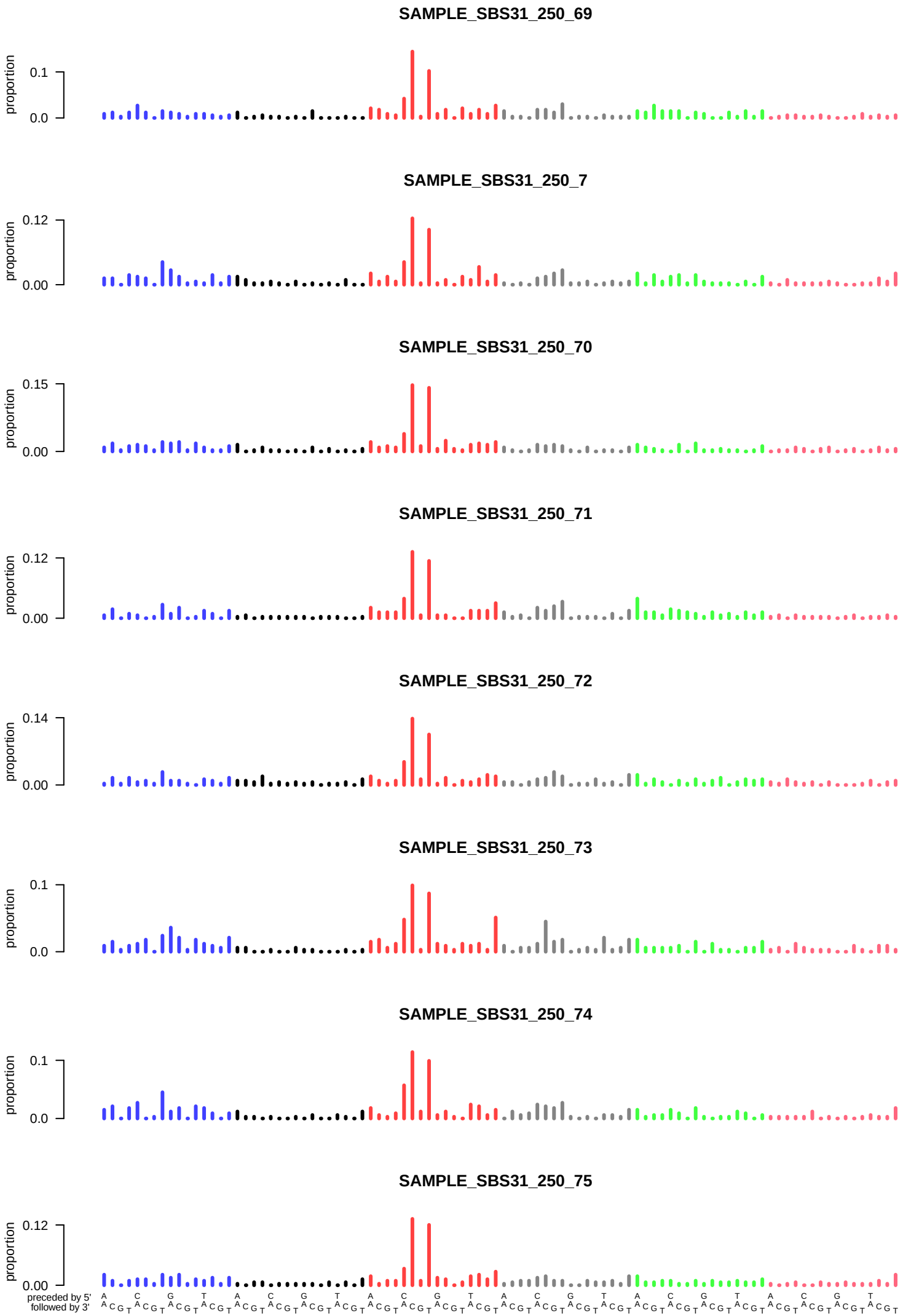
followed by 3'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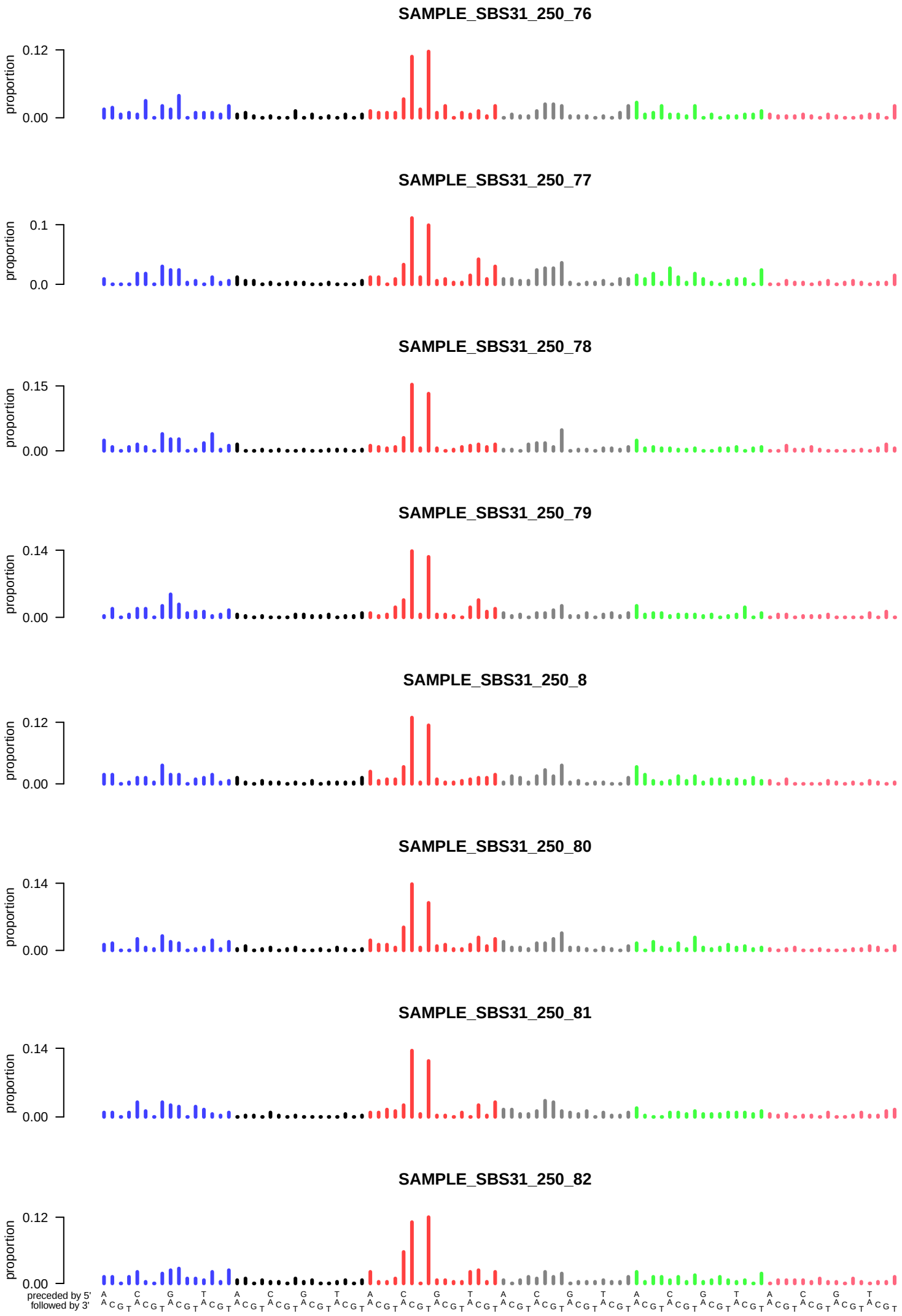
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SAMPLE_SBS31_250_81
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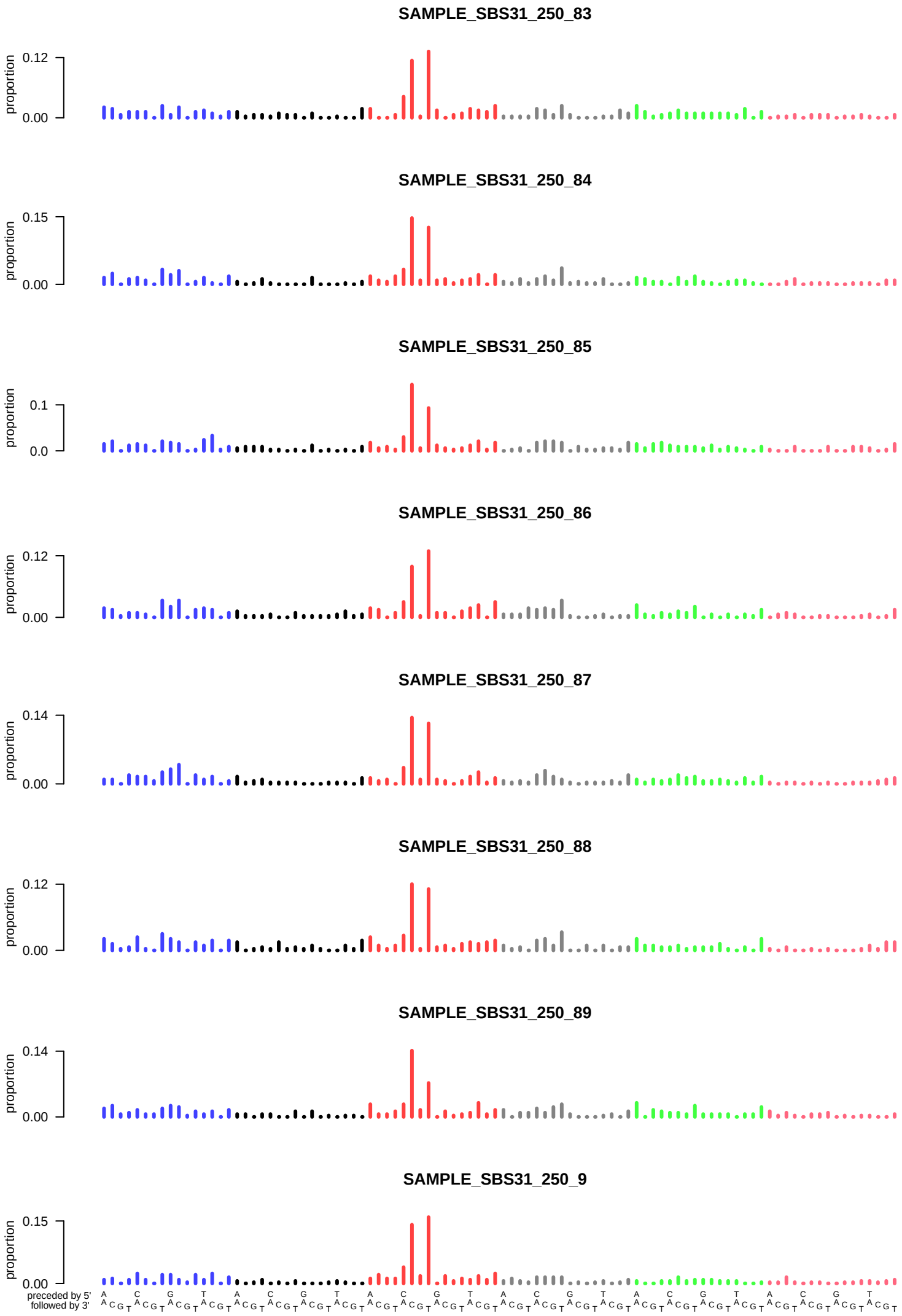
followed by 3'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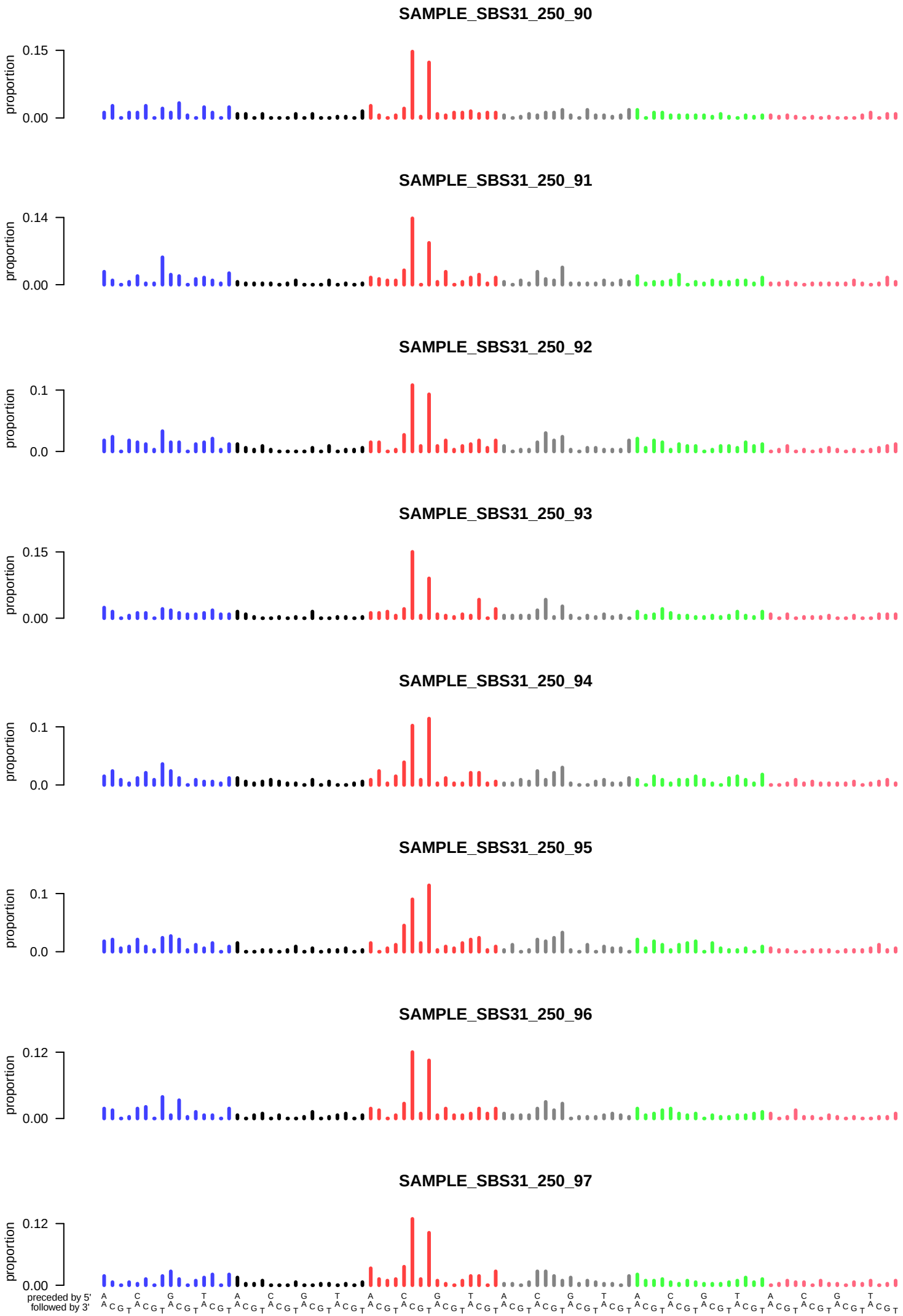
followed by 3'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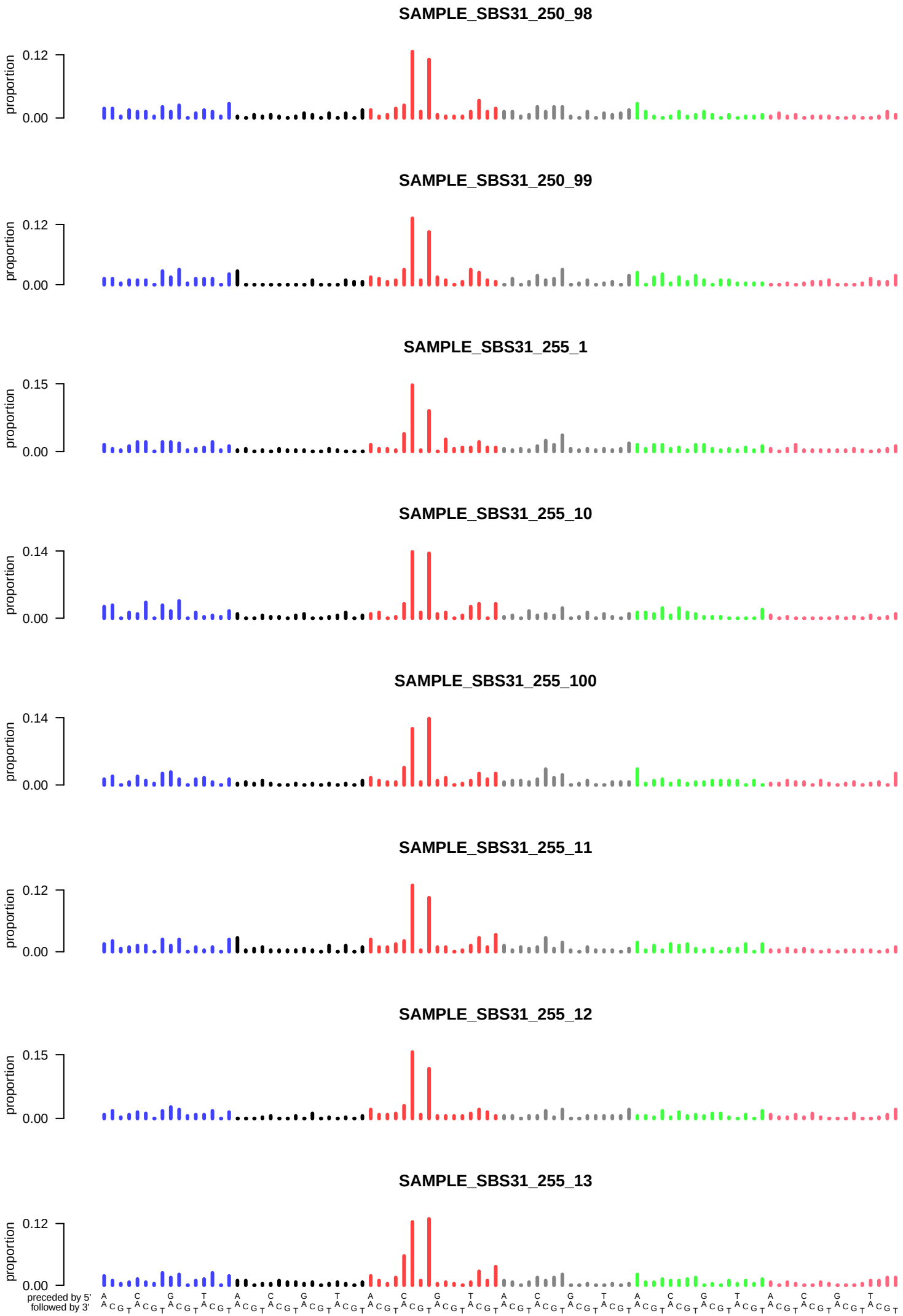
followed by 3'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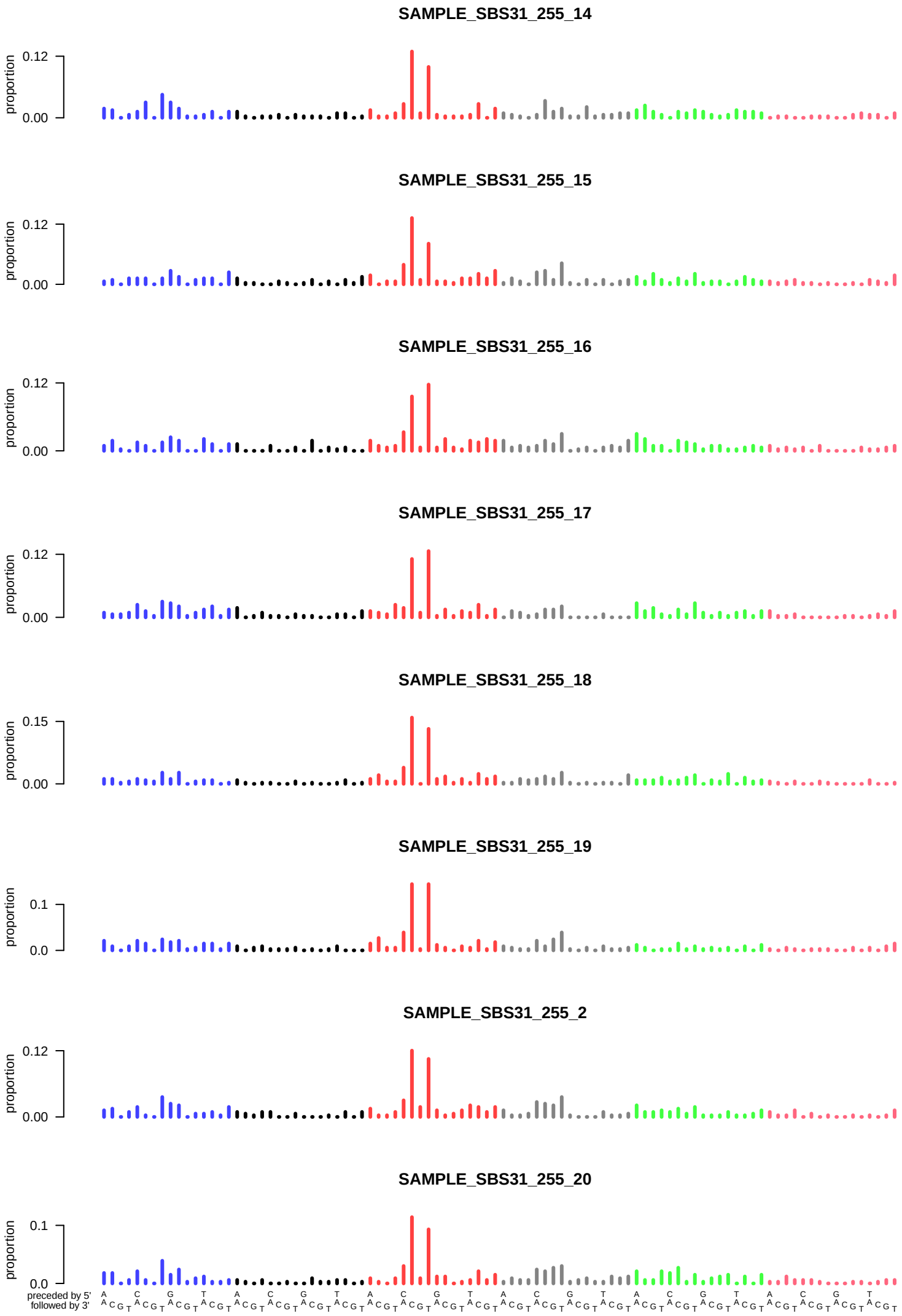
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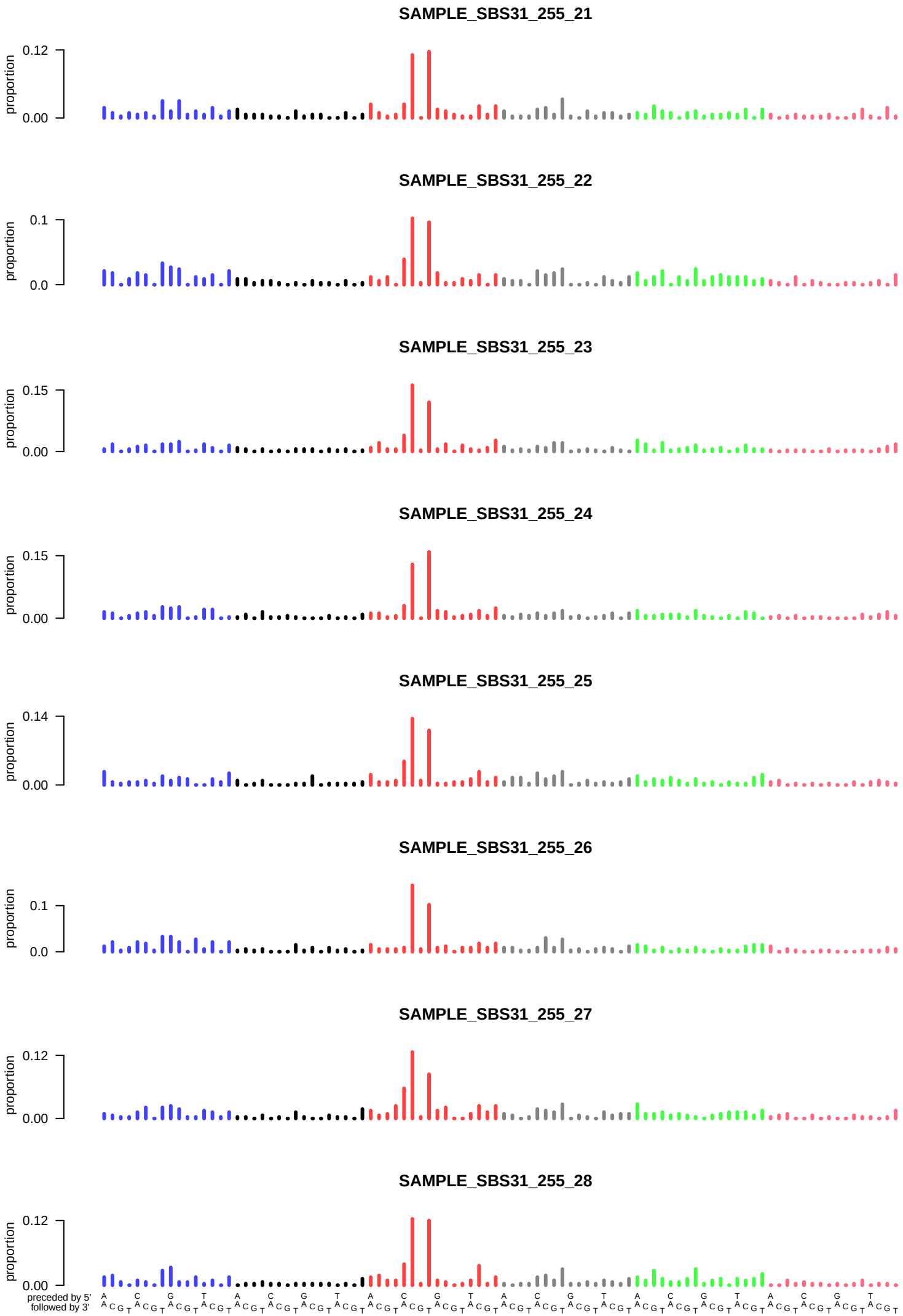
followed by 3'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SAMPLE_SBS31_255_24
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SAMPLE_SBS31_255_25
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SAMPLE_SBS31_255_27
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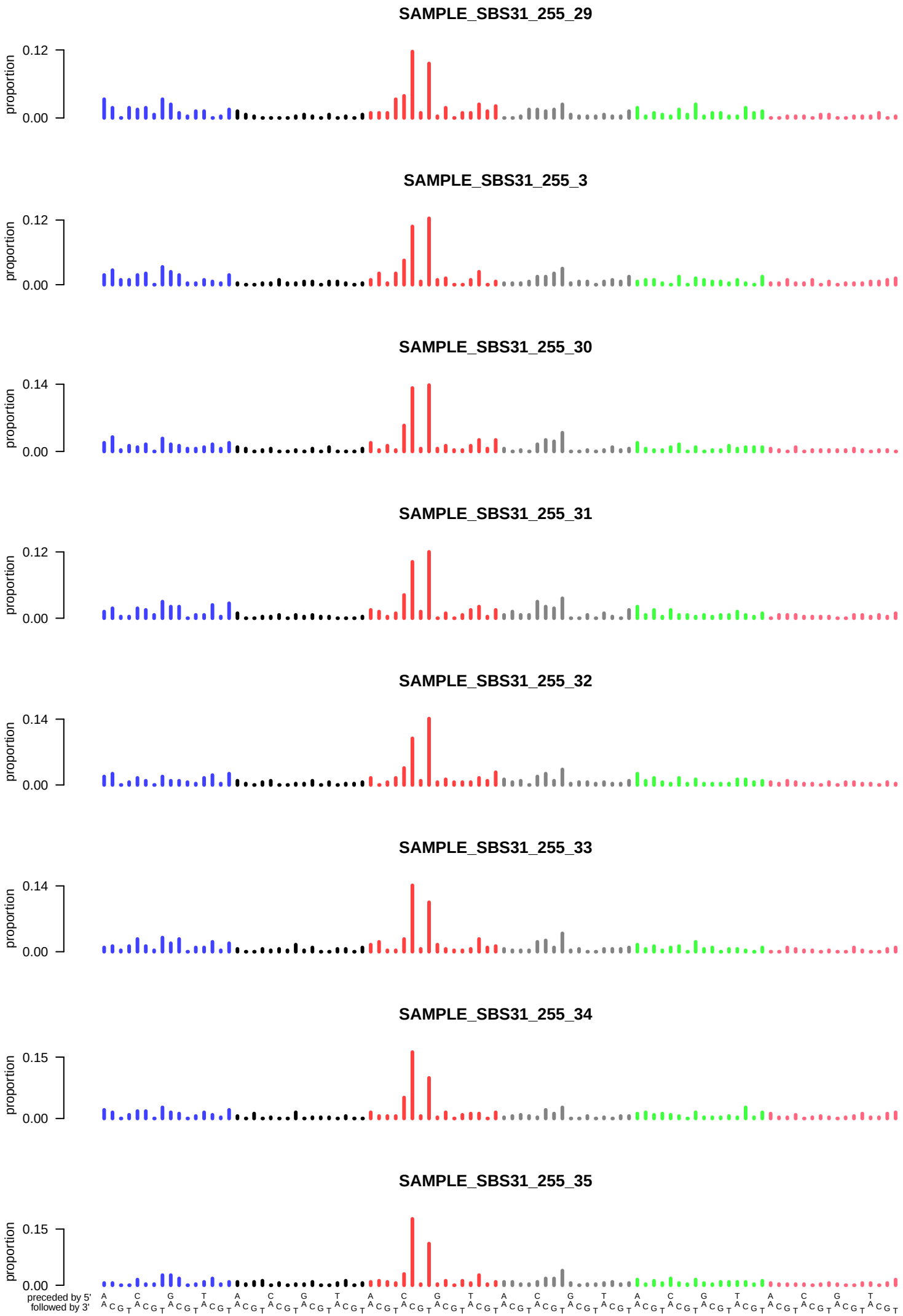
followed by 3'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SAMPLE_SBS31_255_34
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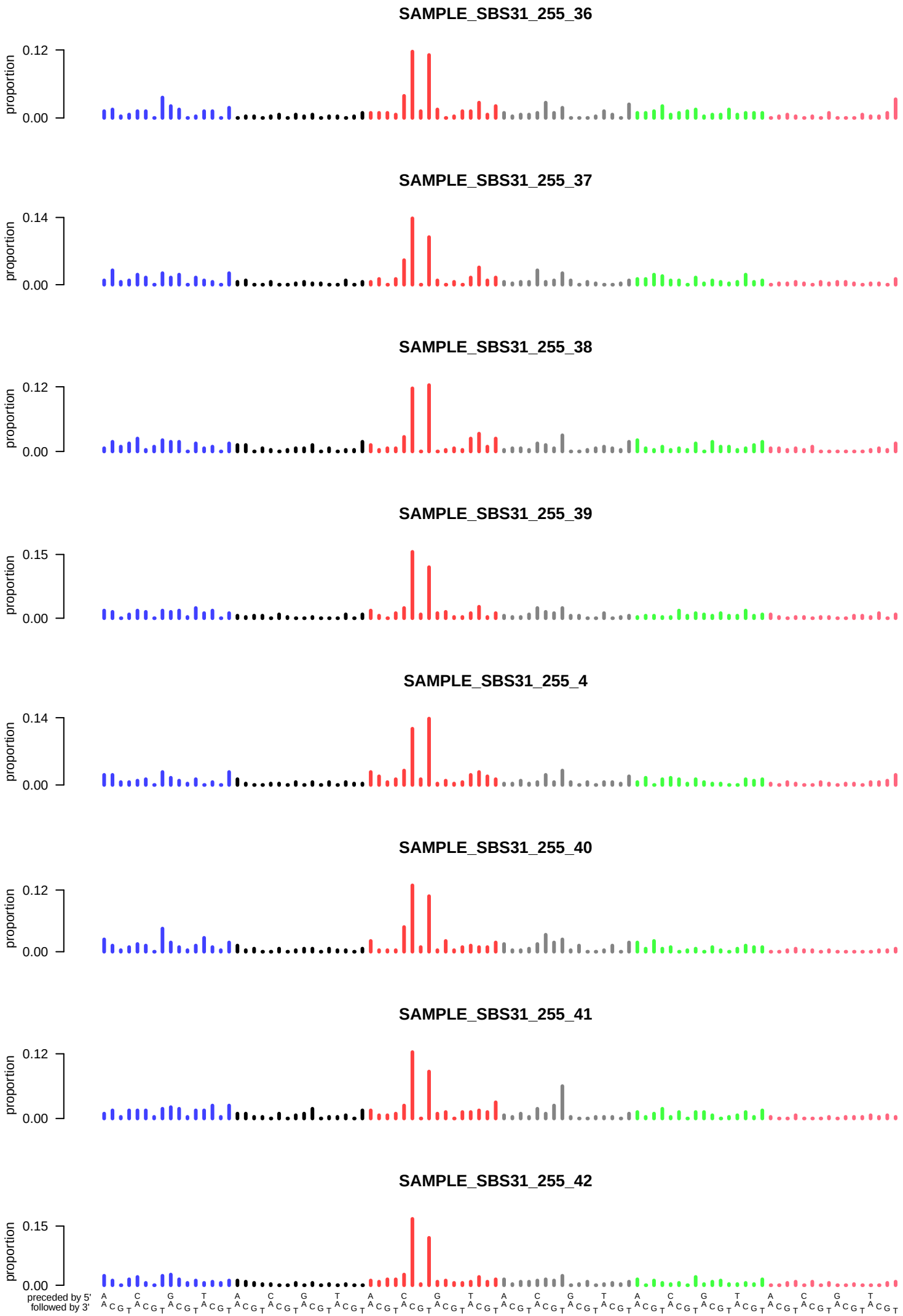
followed by 3'
A C G T A C G T A C G T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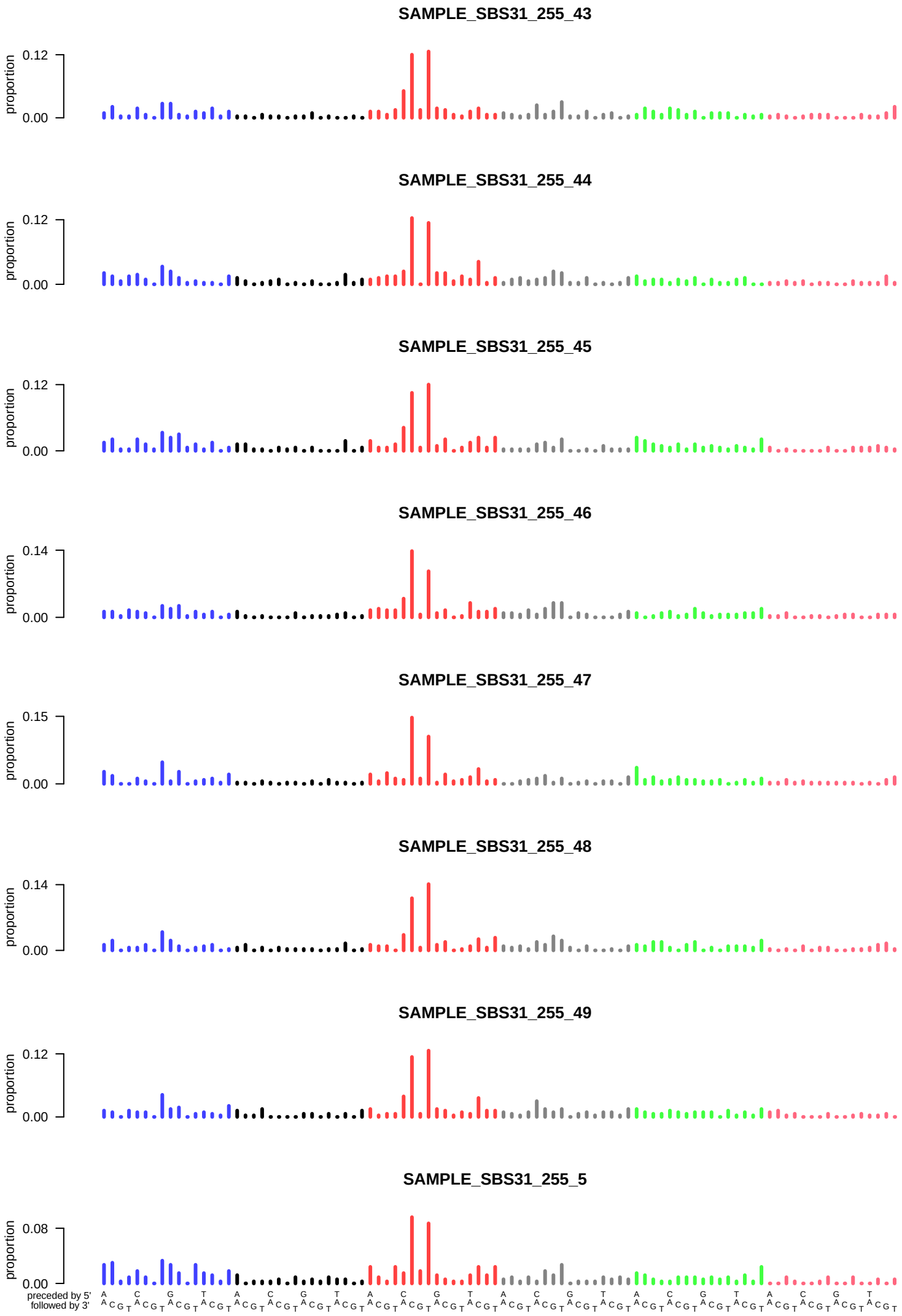
followed by 3'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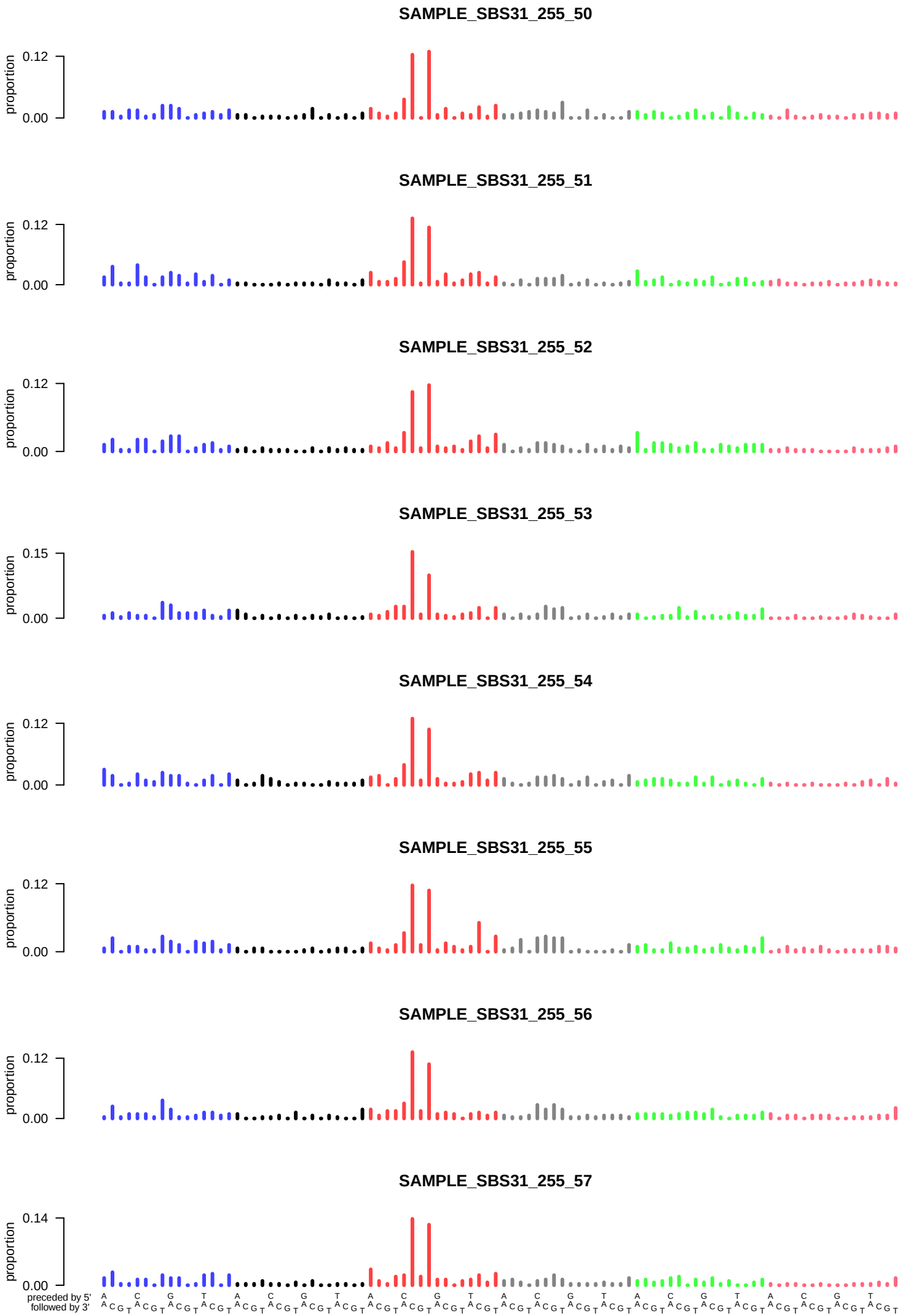
preceded by 5'
followed by 3'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SAMPLE_SBS31_255_56
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SAMPLE_SBS31_255_57
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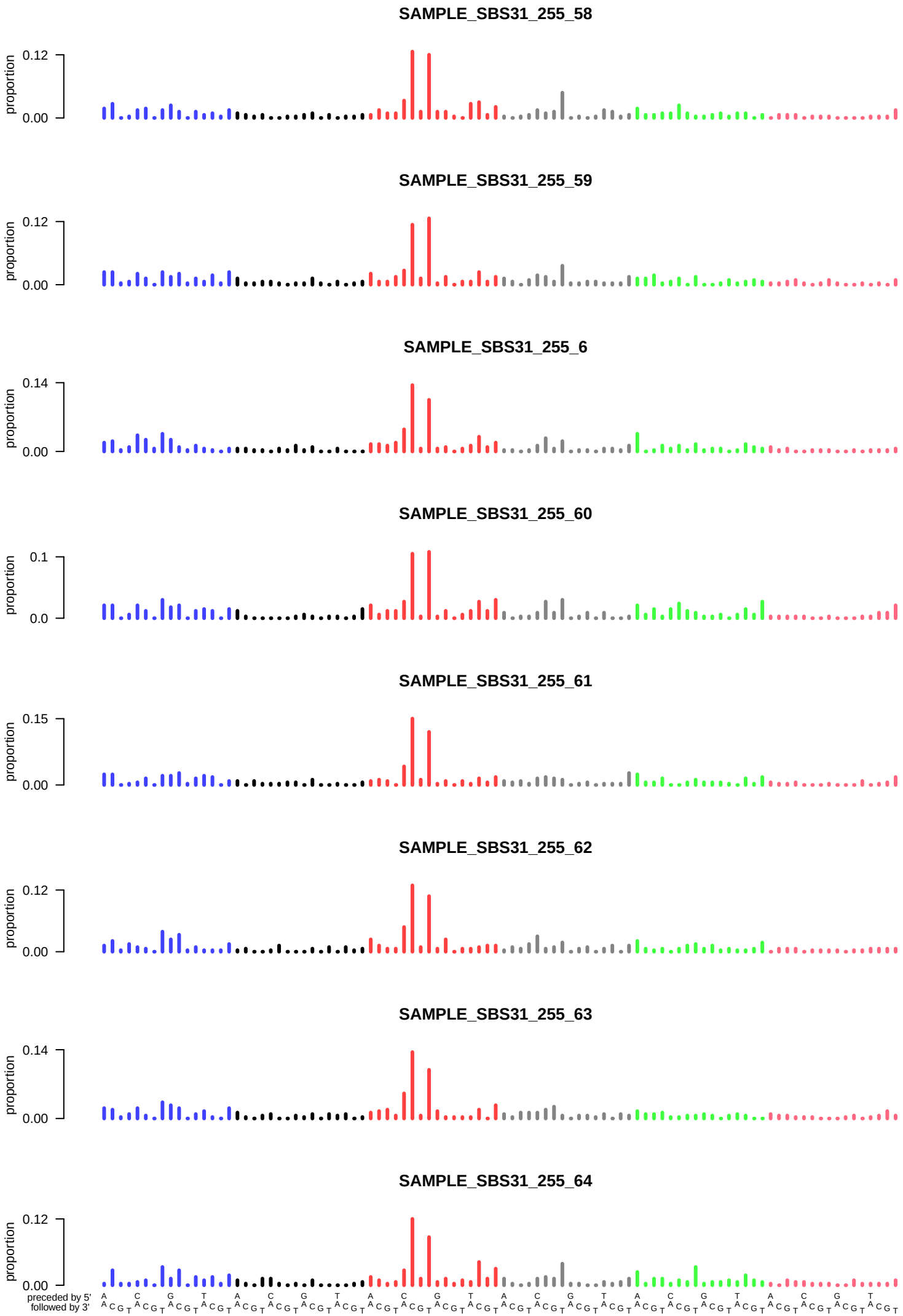
preceded by 5'
followed by 3'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SAMPLE_SBS31_255_62
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SAMPLE_SBS31_255_63
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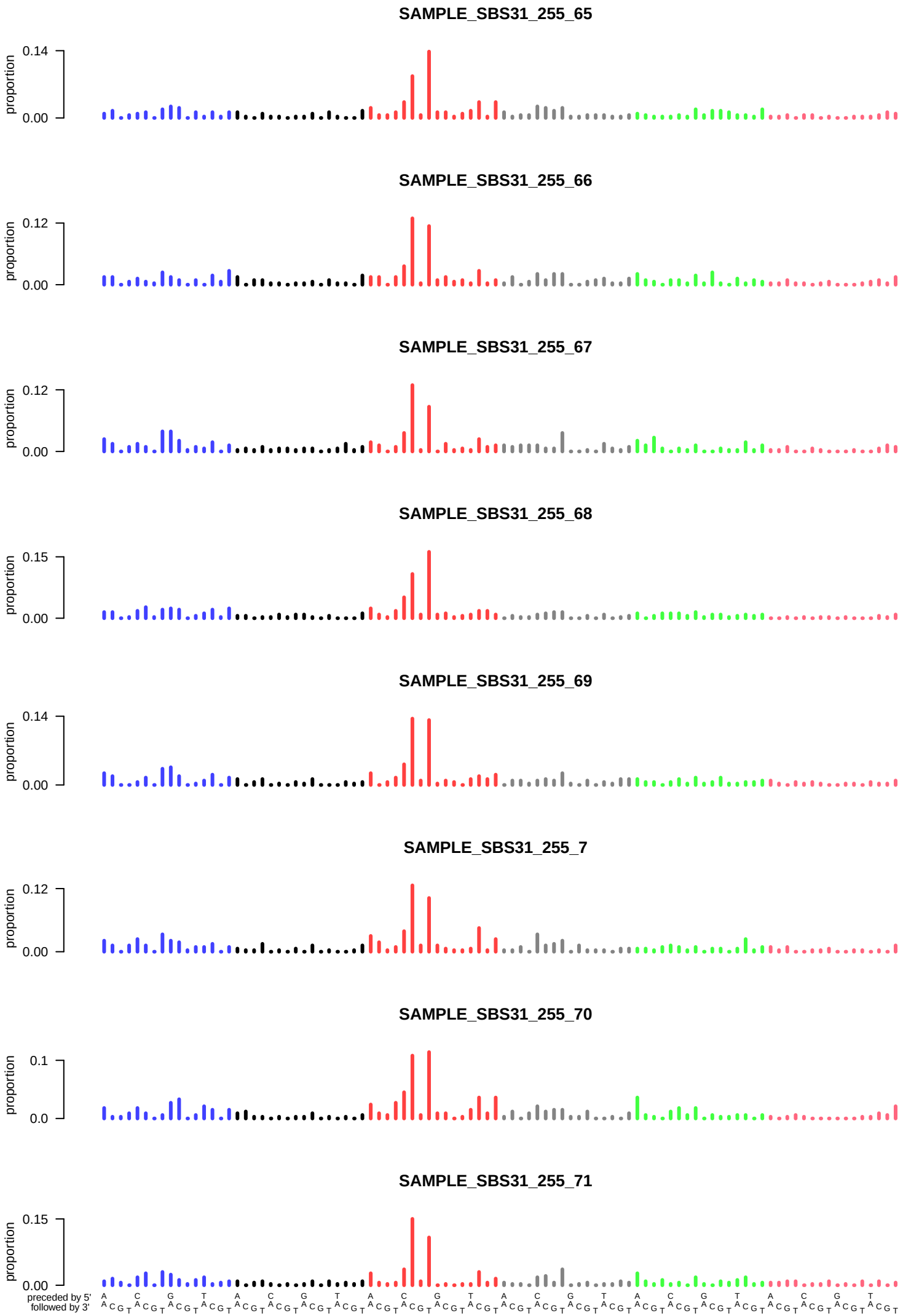
followed by 3'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SAMPLE_SBS31_255_7
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SAMPLE_SBS31_255_70
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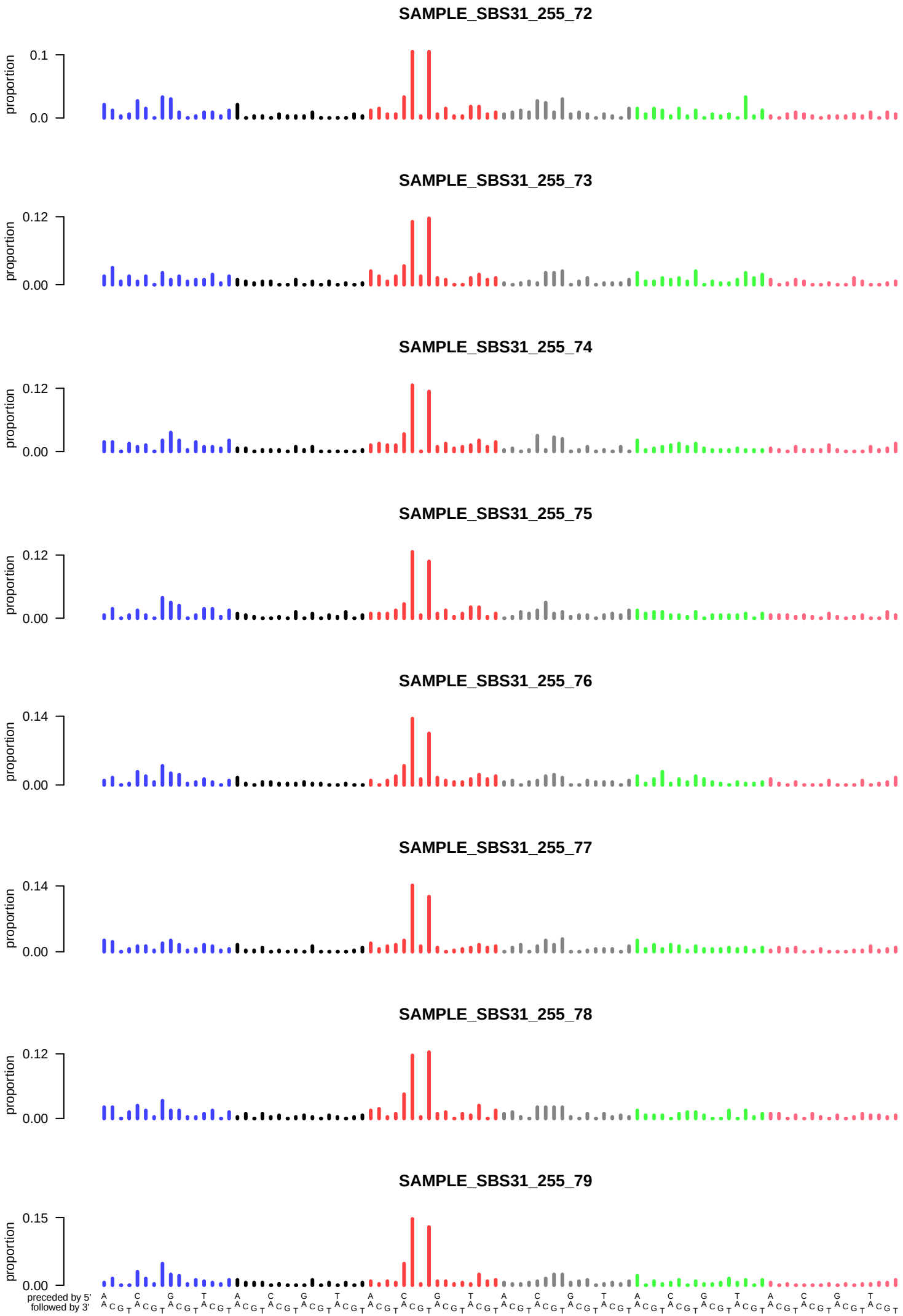
preceded by 5'
followed by 3'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SAMPLE_SBS31_255_78
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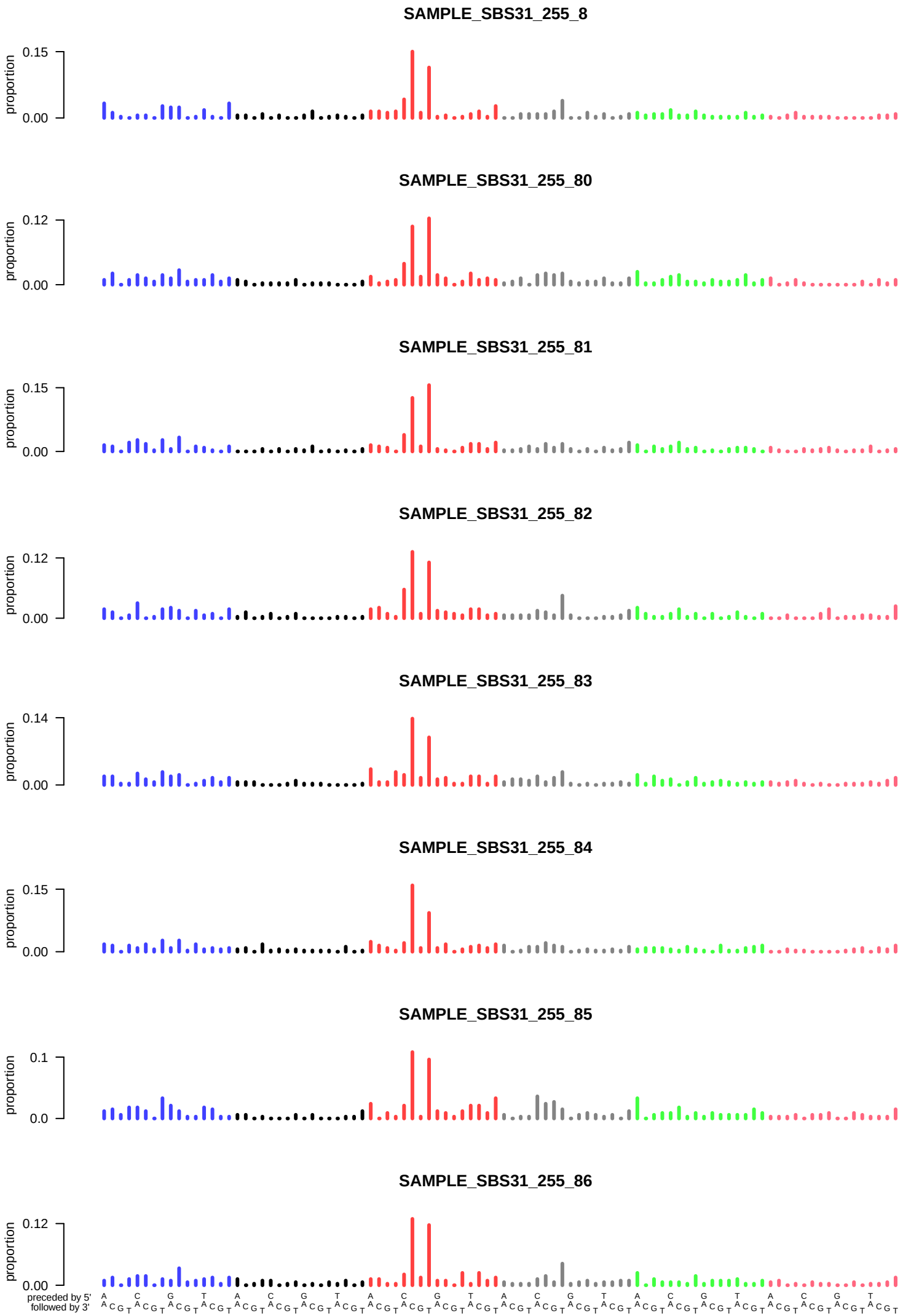
followed by 3'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SAMPLE_SBS31_255_85
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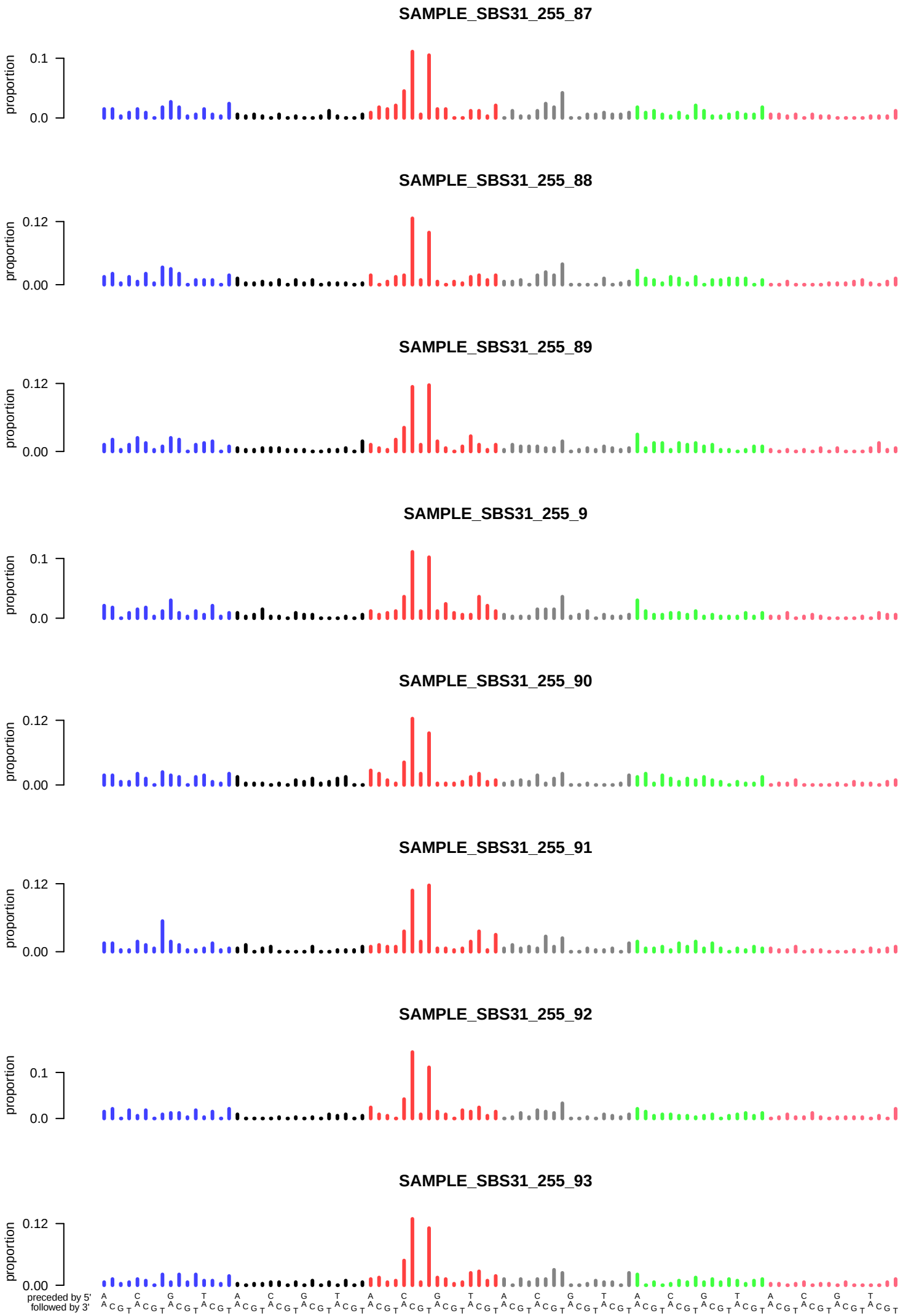
followed by 3'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proportion
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SAMPLE_SBS31_255_90
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SAMPLE_SBS31_255_91
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SAMPLE_SBS31_255_92
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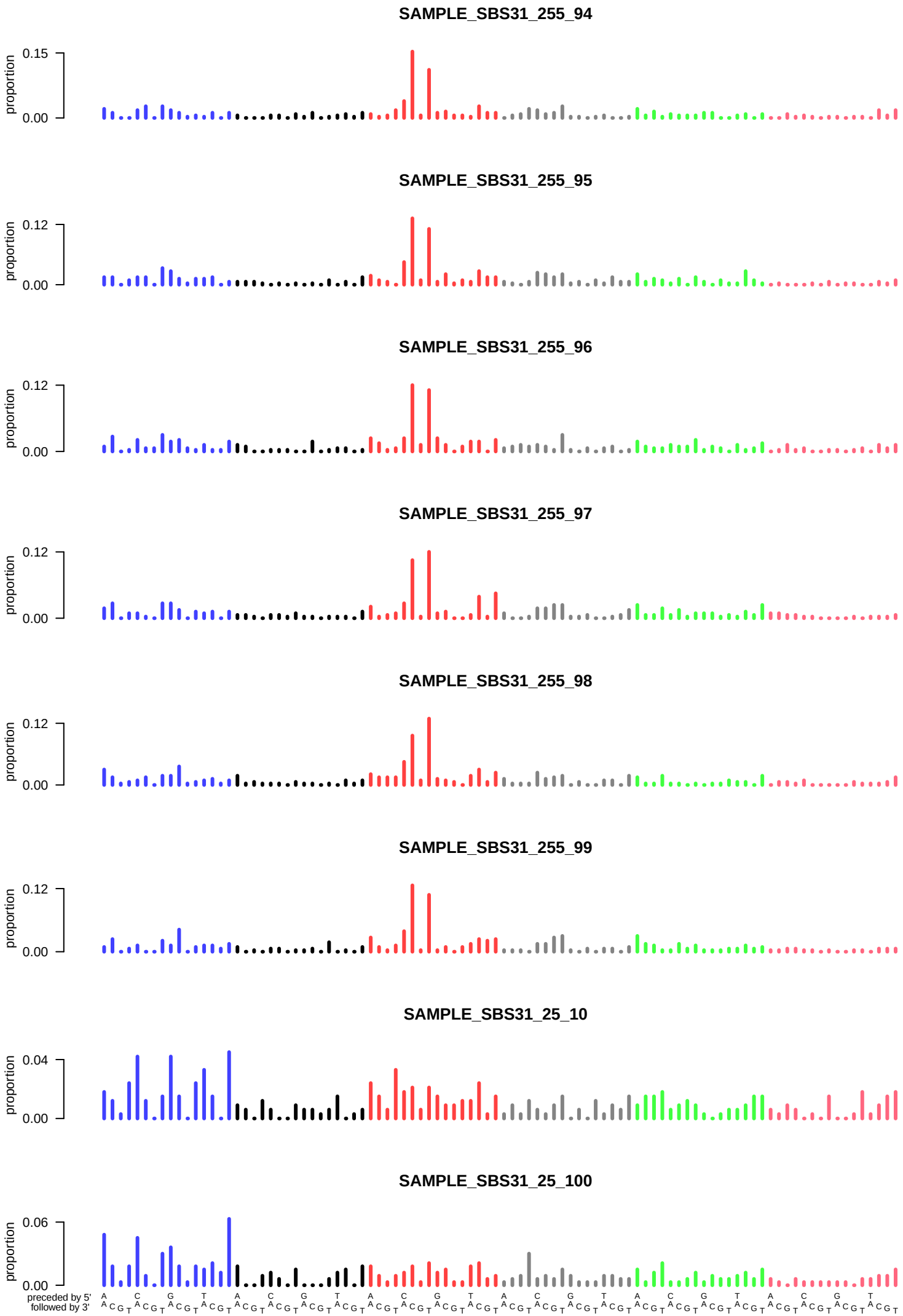
followed by 3'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SAMPLE_SBS31_255_98
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SAMPLE_SBS31_255_99
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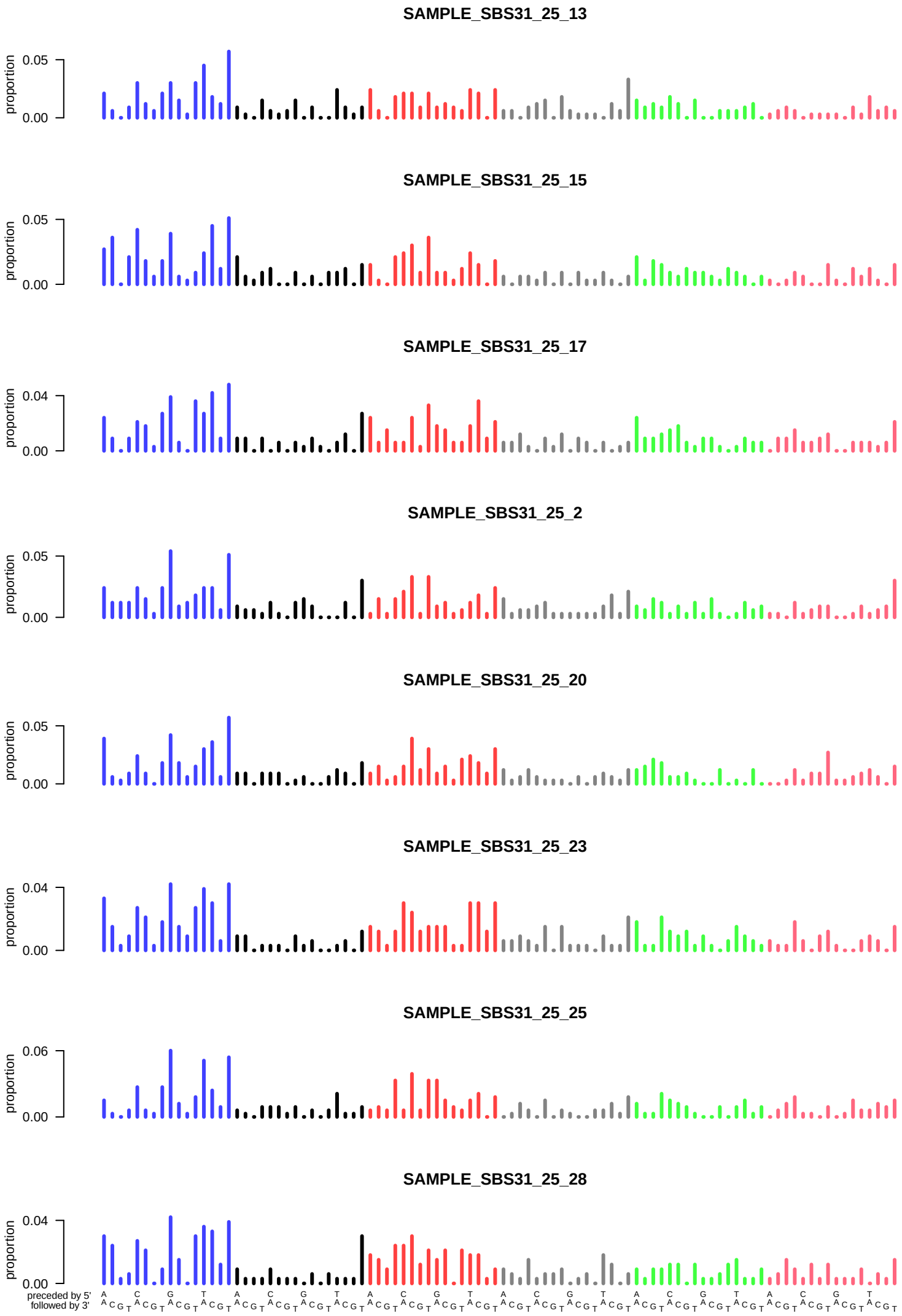
preceded by 5'
followed by 3'
A C G T A C G T A C G T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SAMPLE_SBS31_25_20
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SAMPLE_SBS31_25_23
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SAMPLE_SBS31_25_25
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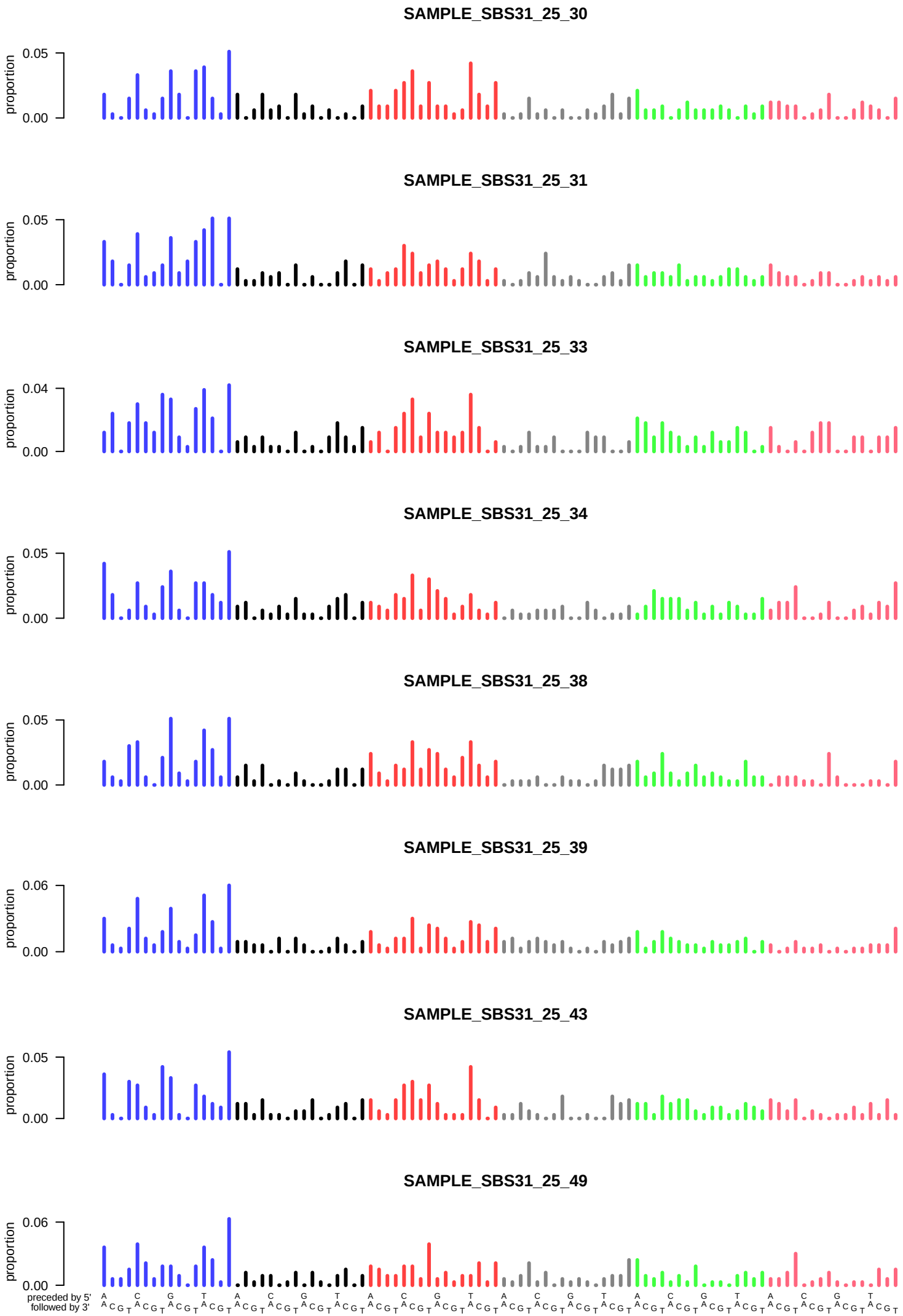
followed by 3'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SAMPLE_SBS31_25_43
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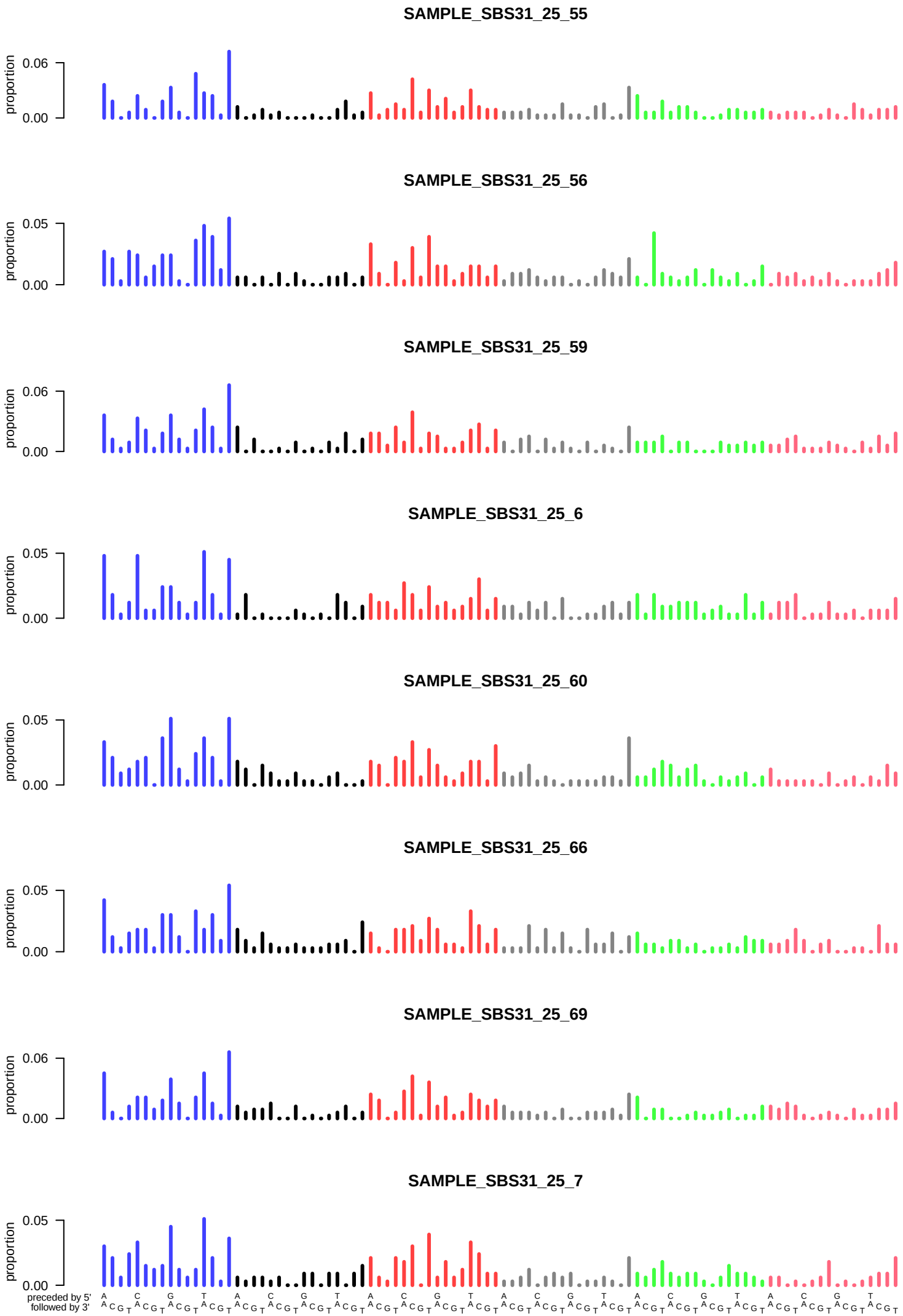
preceded by 5'
followed by 3'
A C G T A C G T A C G T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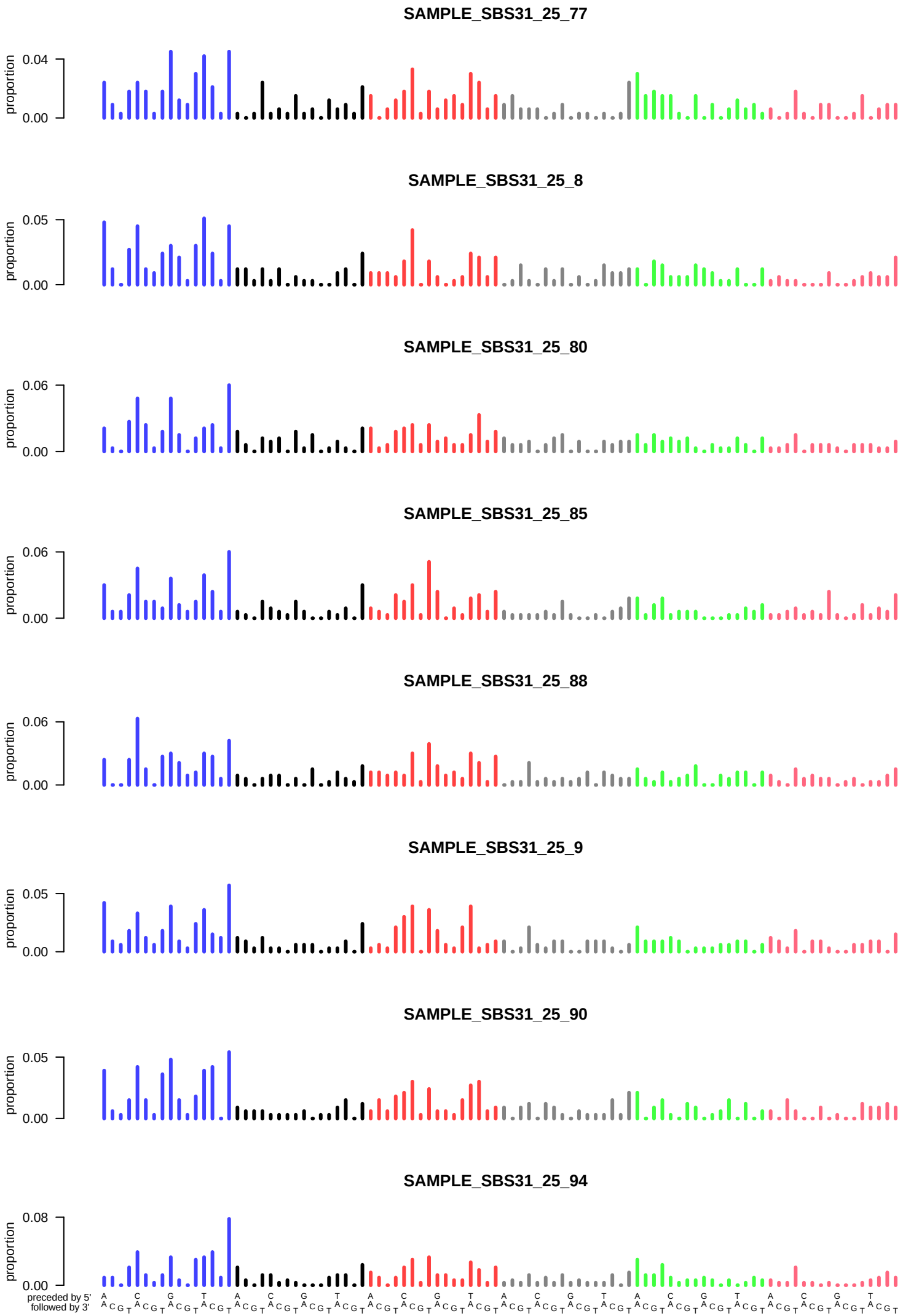
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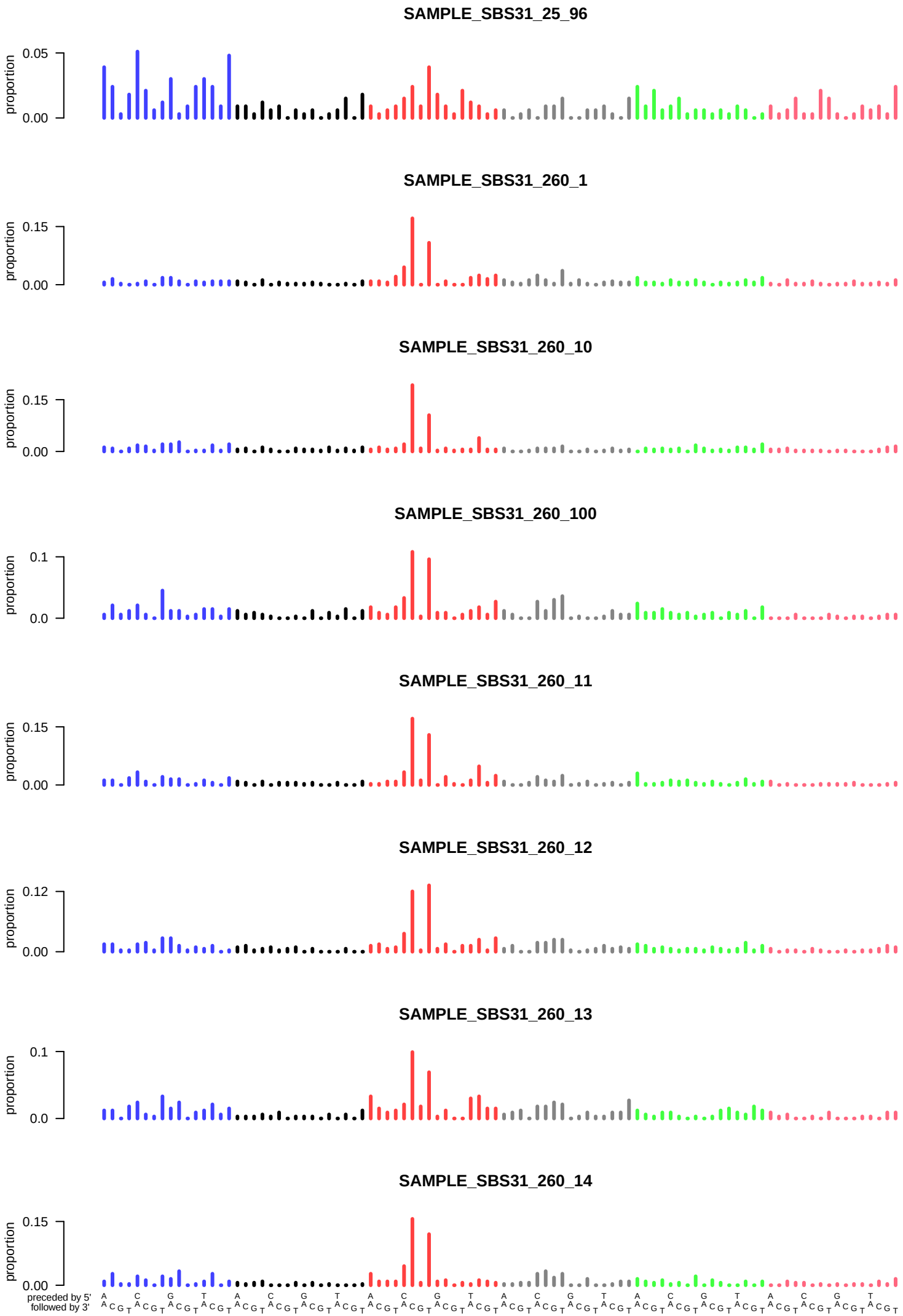
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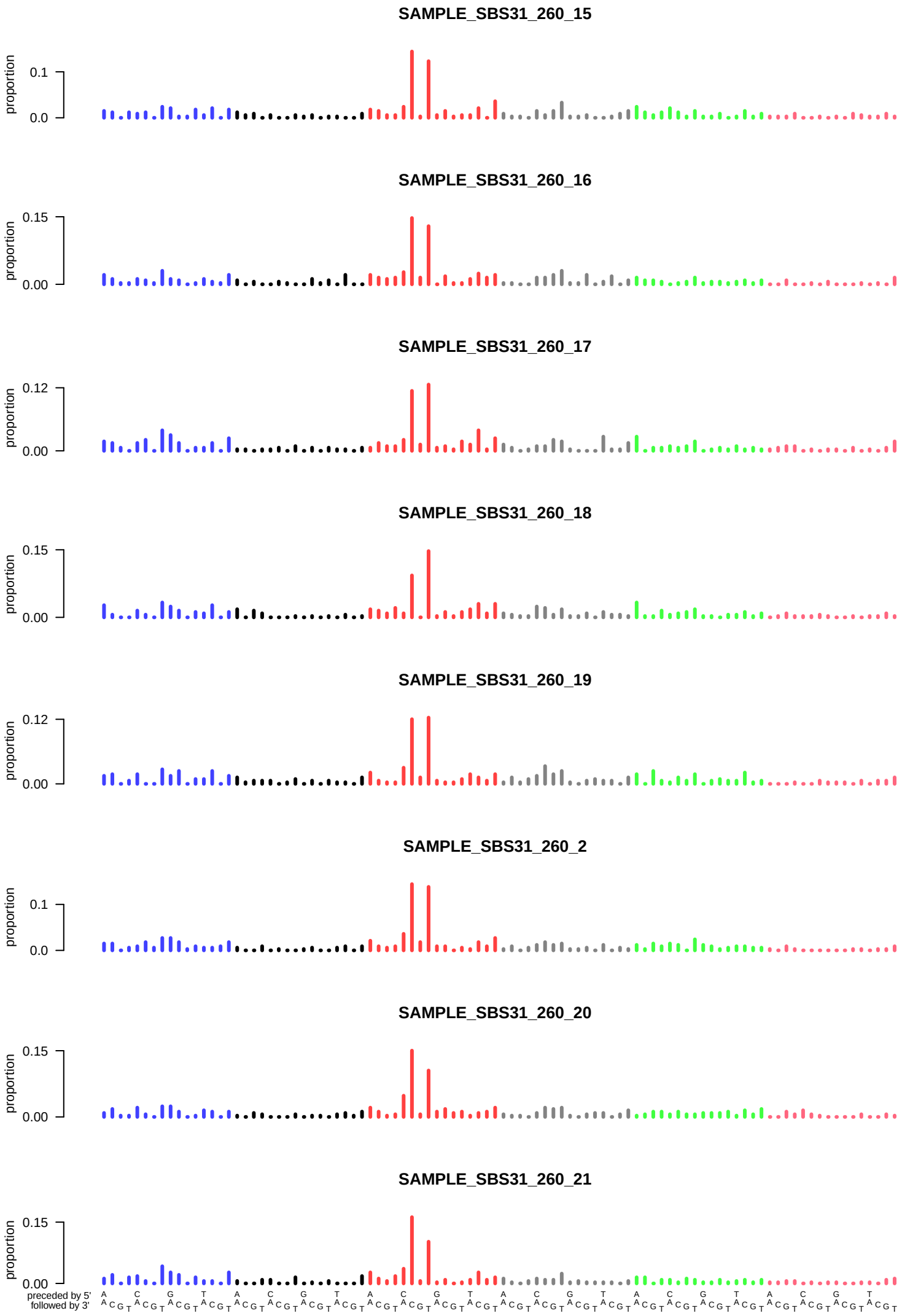
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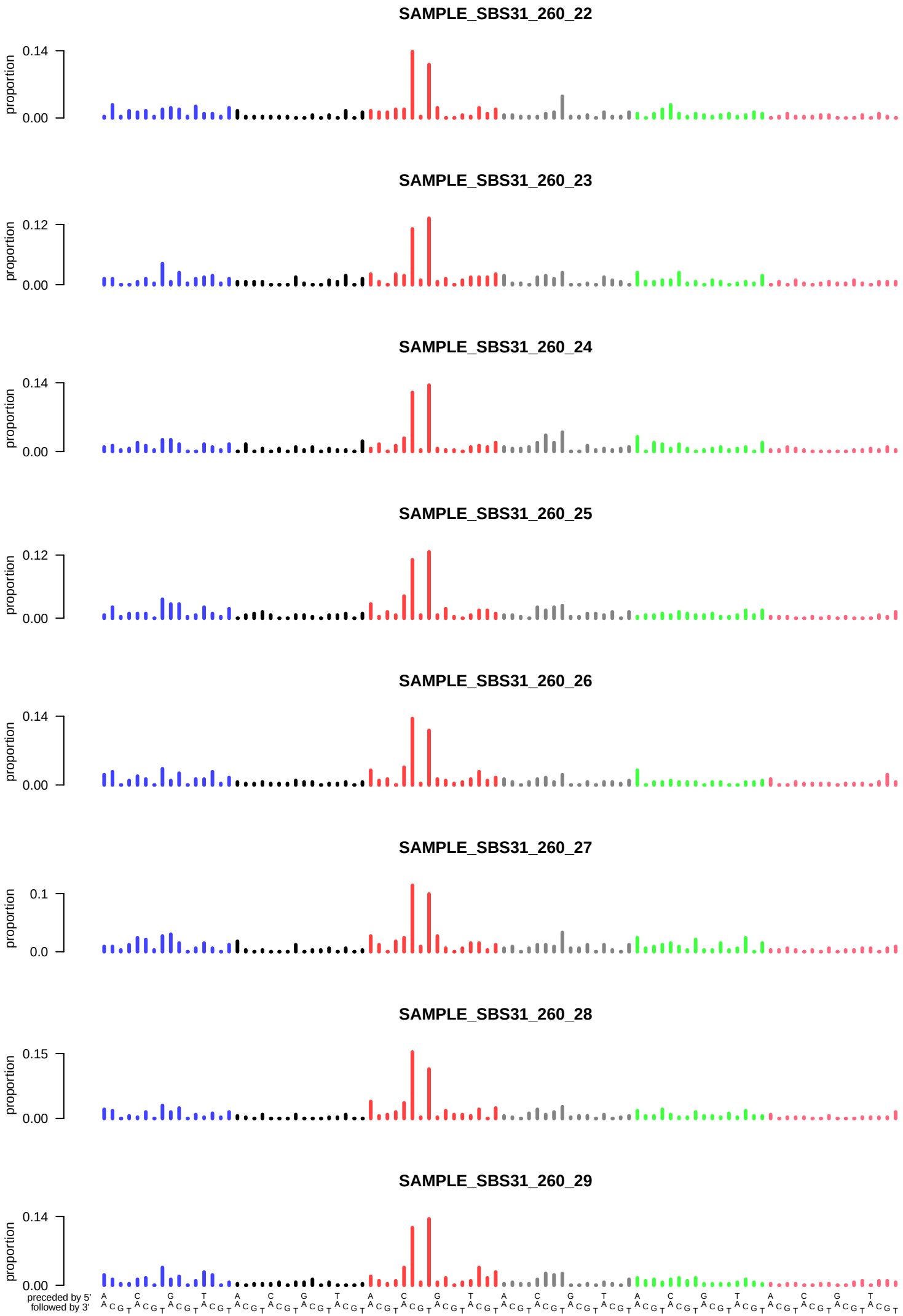
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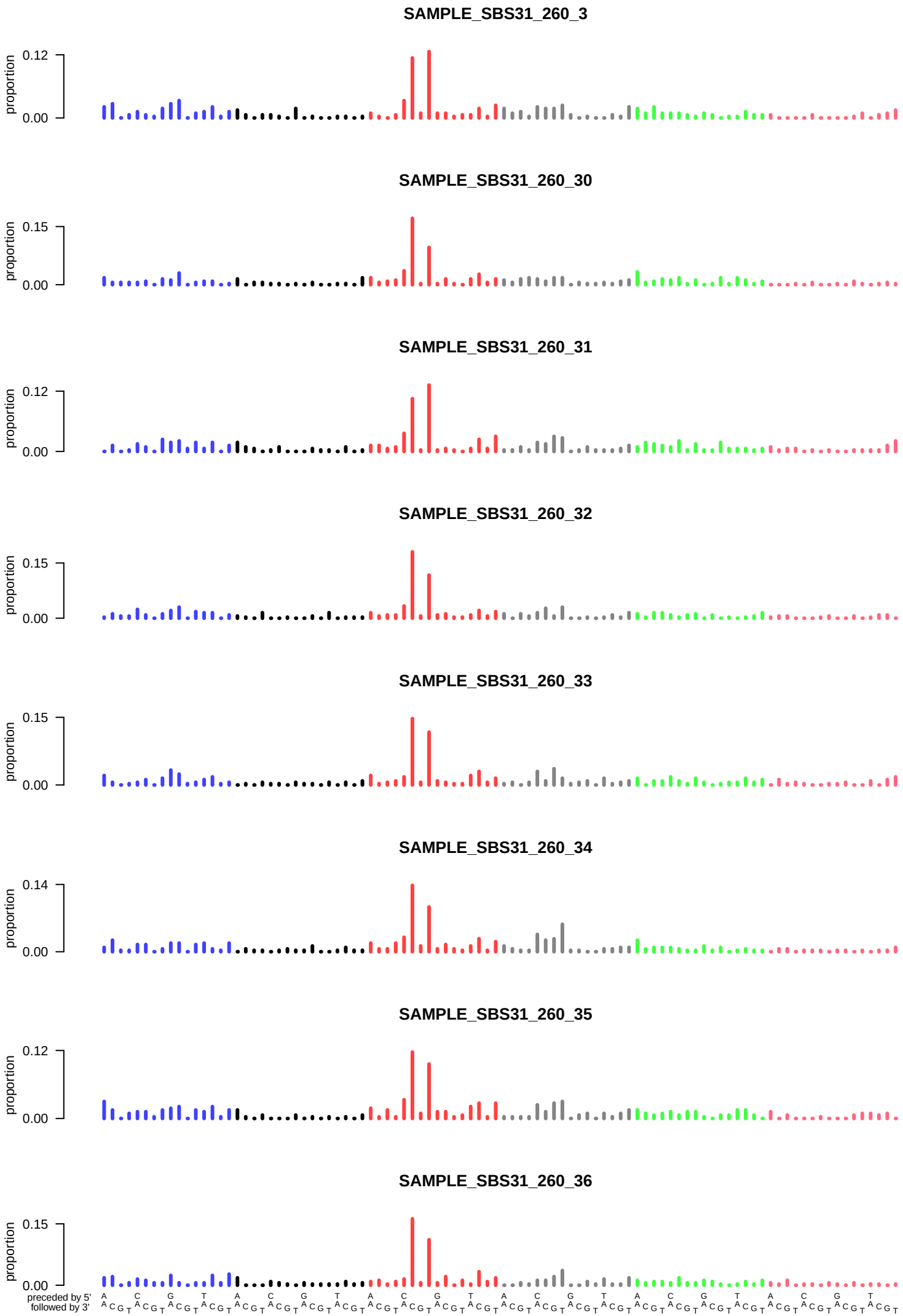
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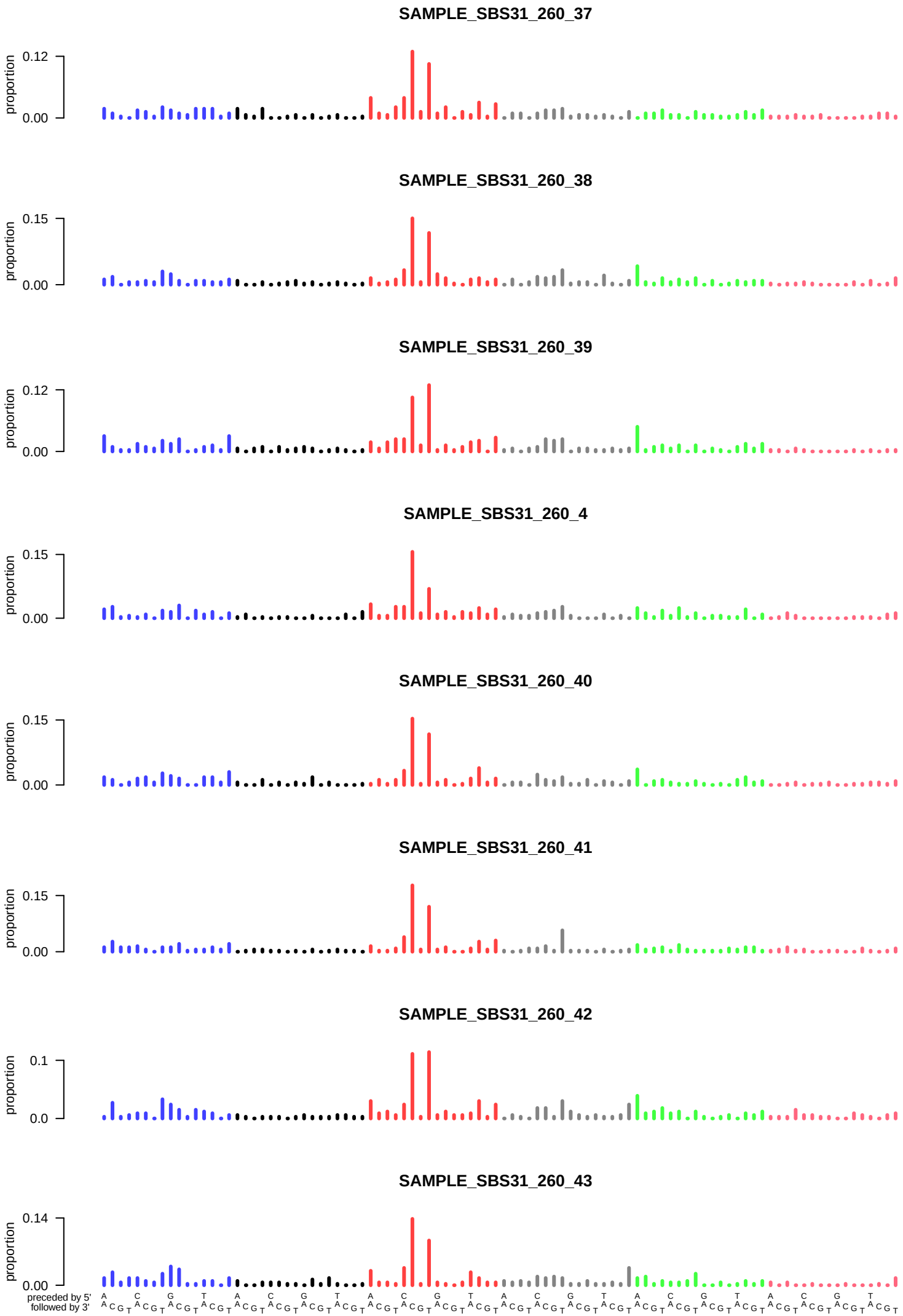
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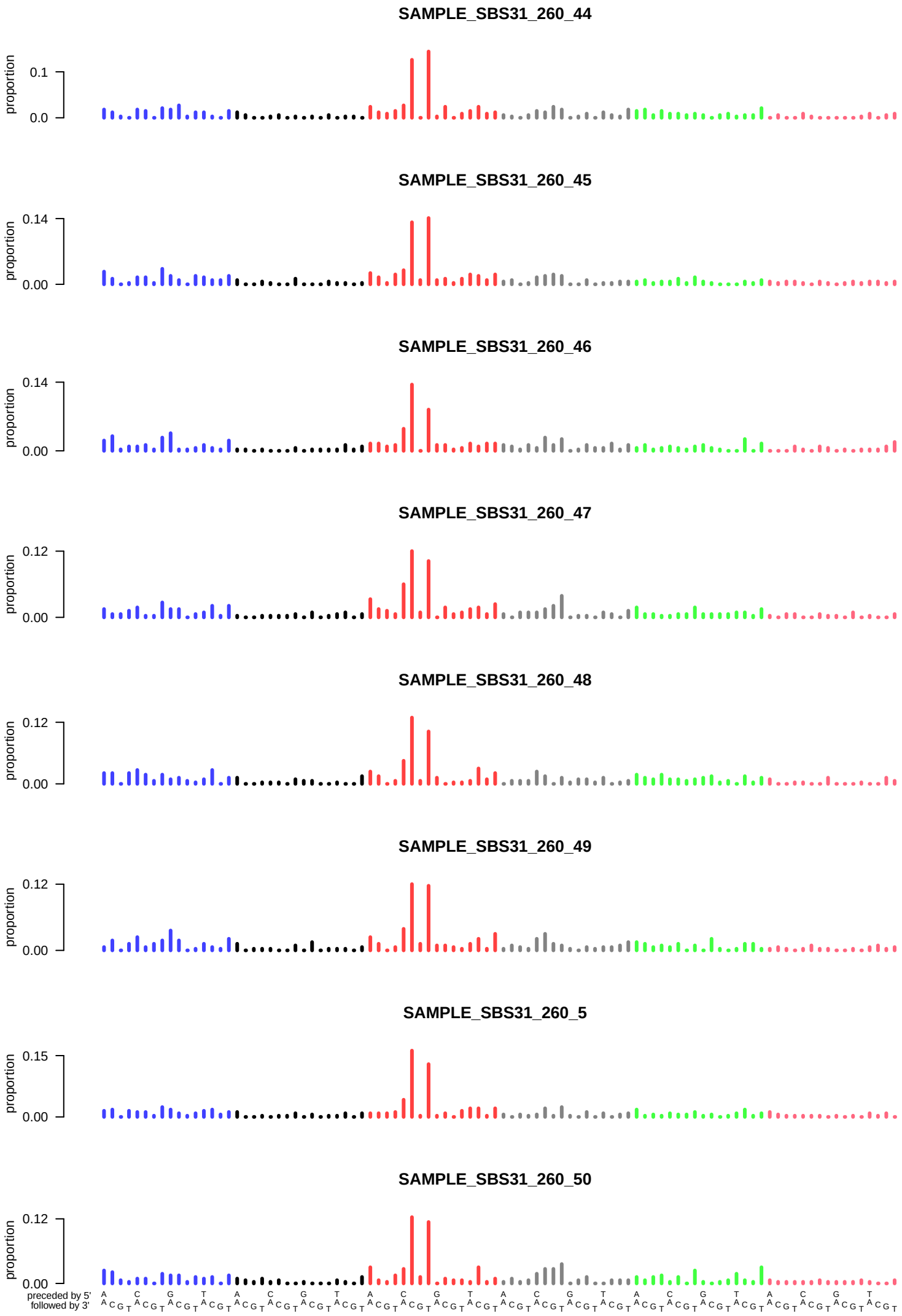
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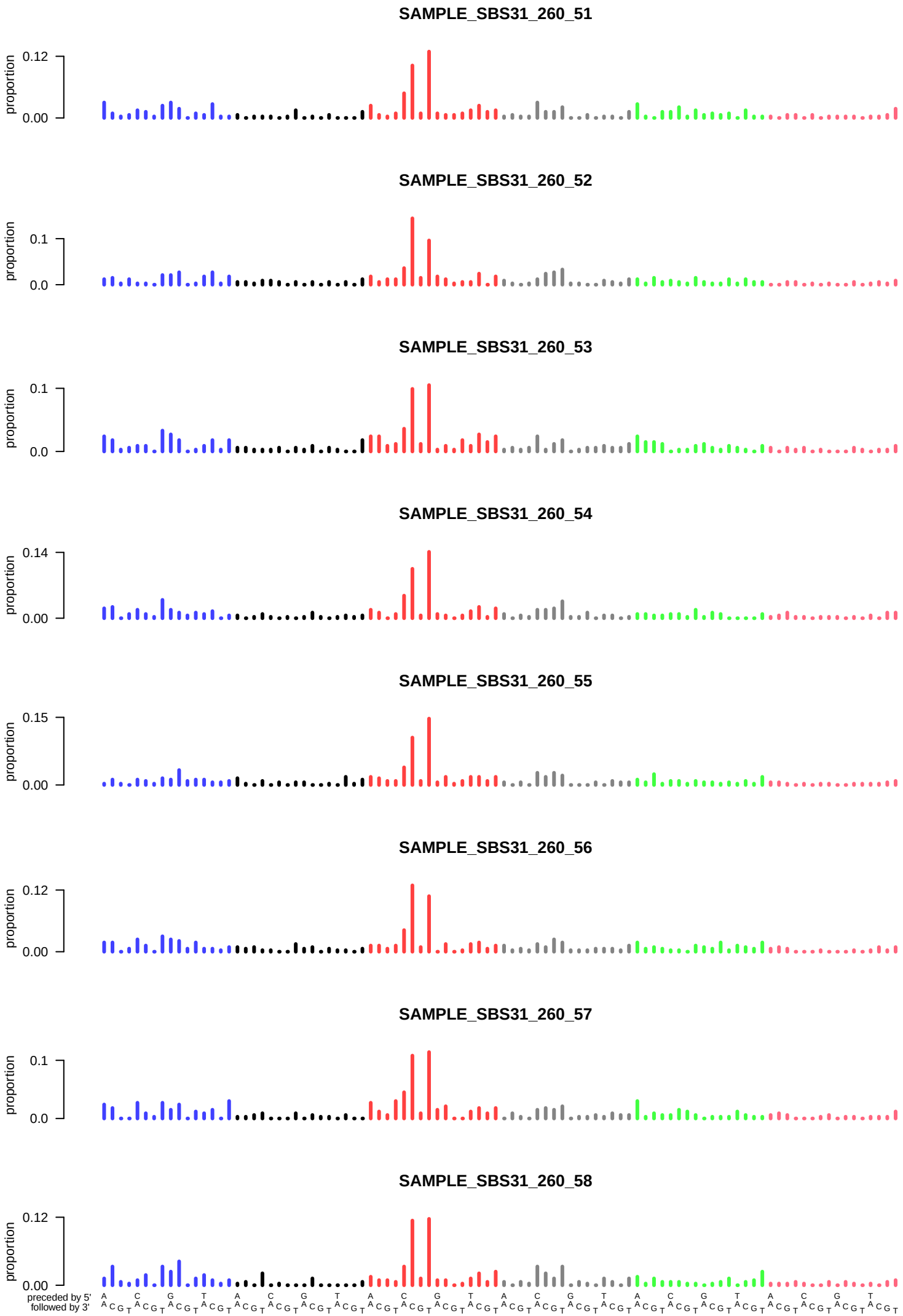
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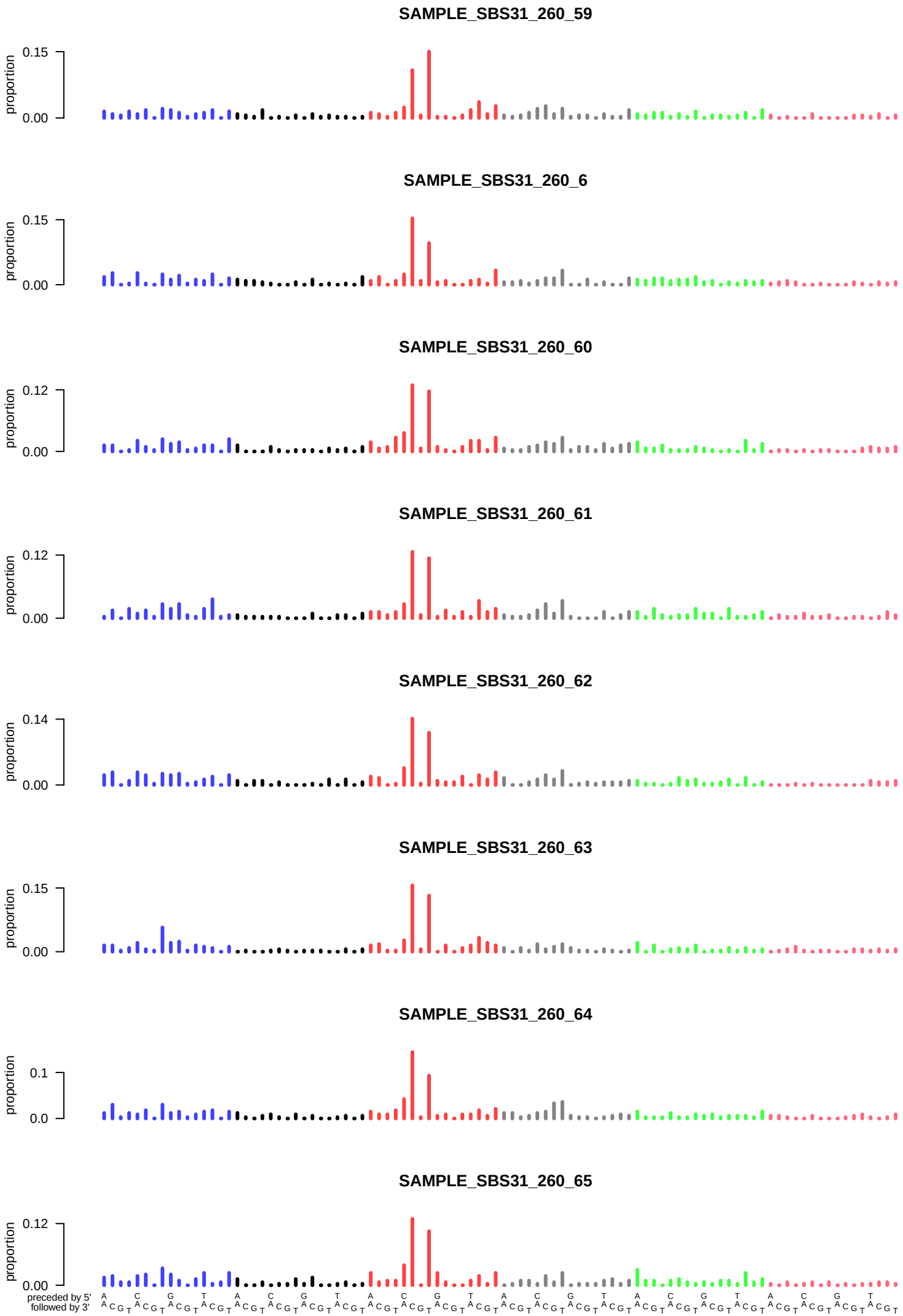
preceded by 5'
followed by 3'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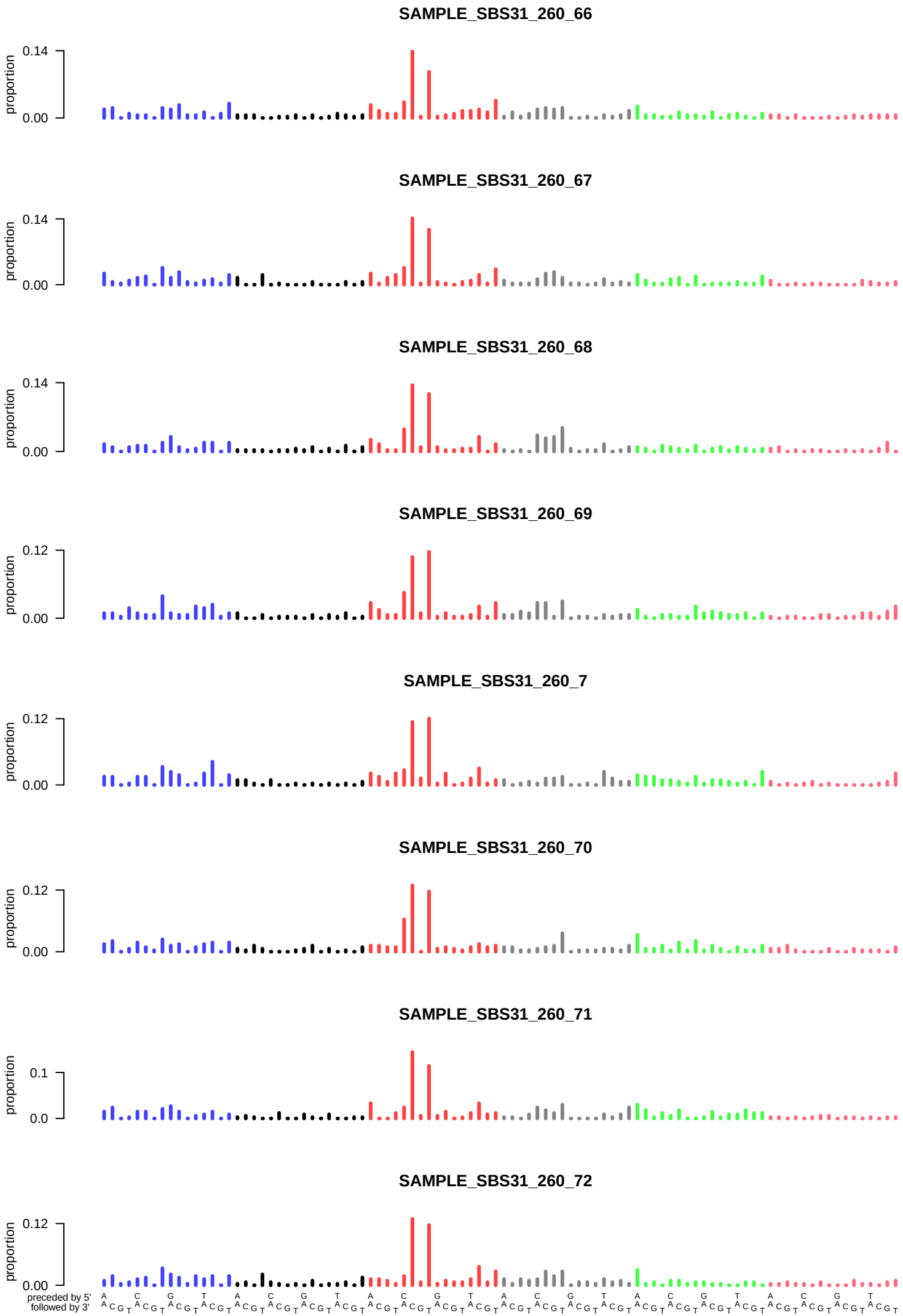
followed by 3'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SAMPLE_SBS31_260_69
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SAMPLE_SBS31_260_7
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SAMPLE_SBS31_260_70
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SAMPLE_SBS31_260_71
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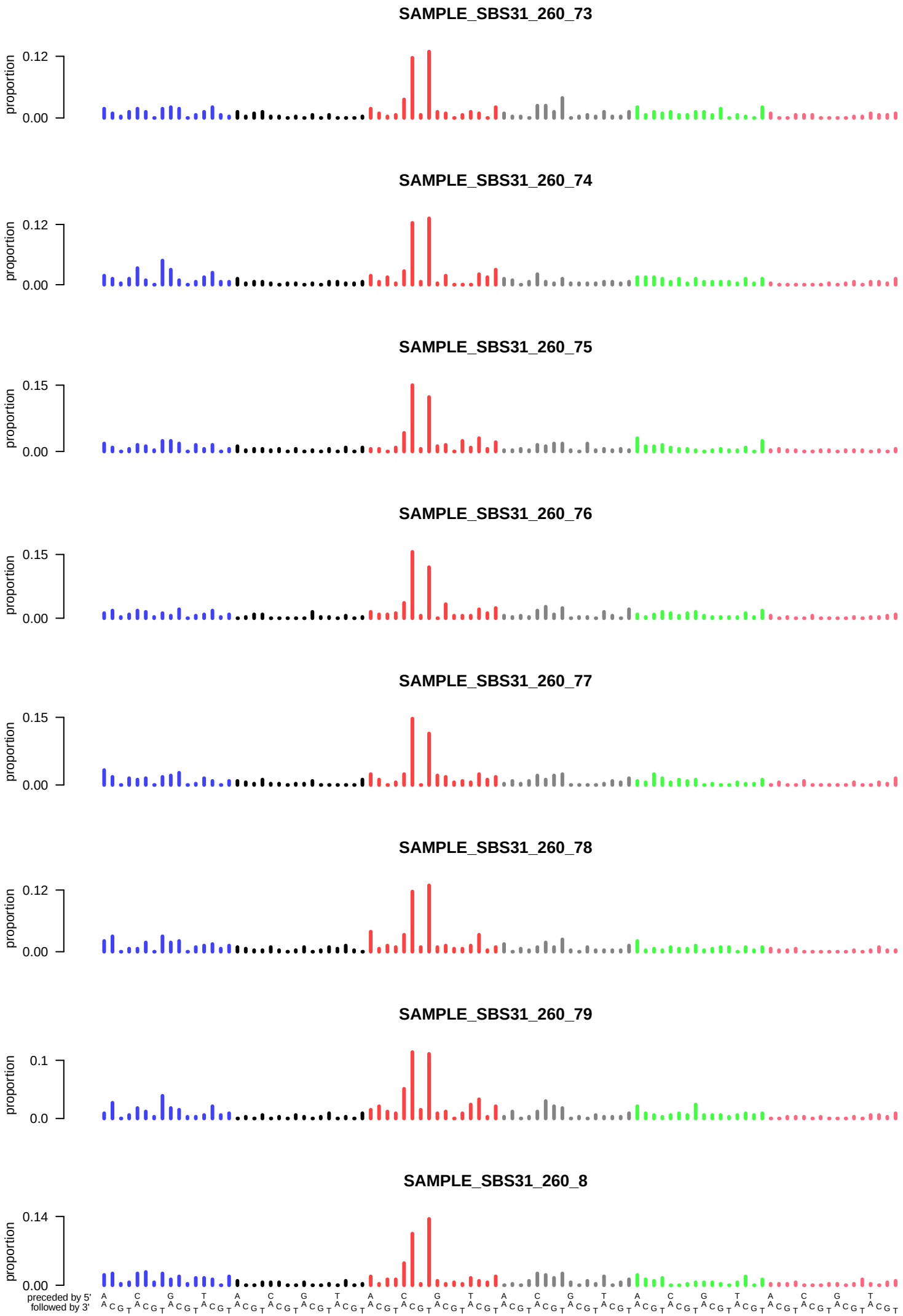
followed by 3'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SAMPLE_SBS31_260_78
proportion
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SAMPLE_SBS31_260_79
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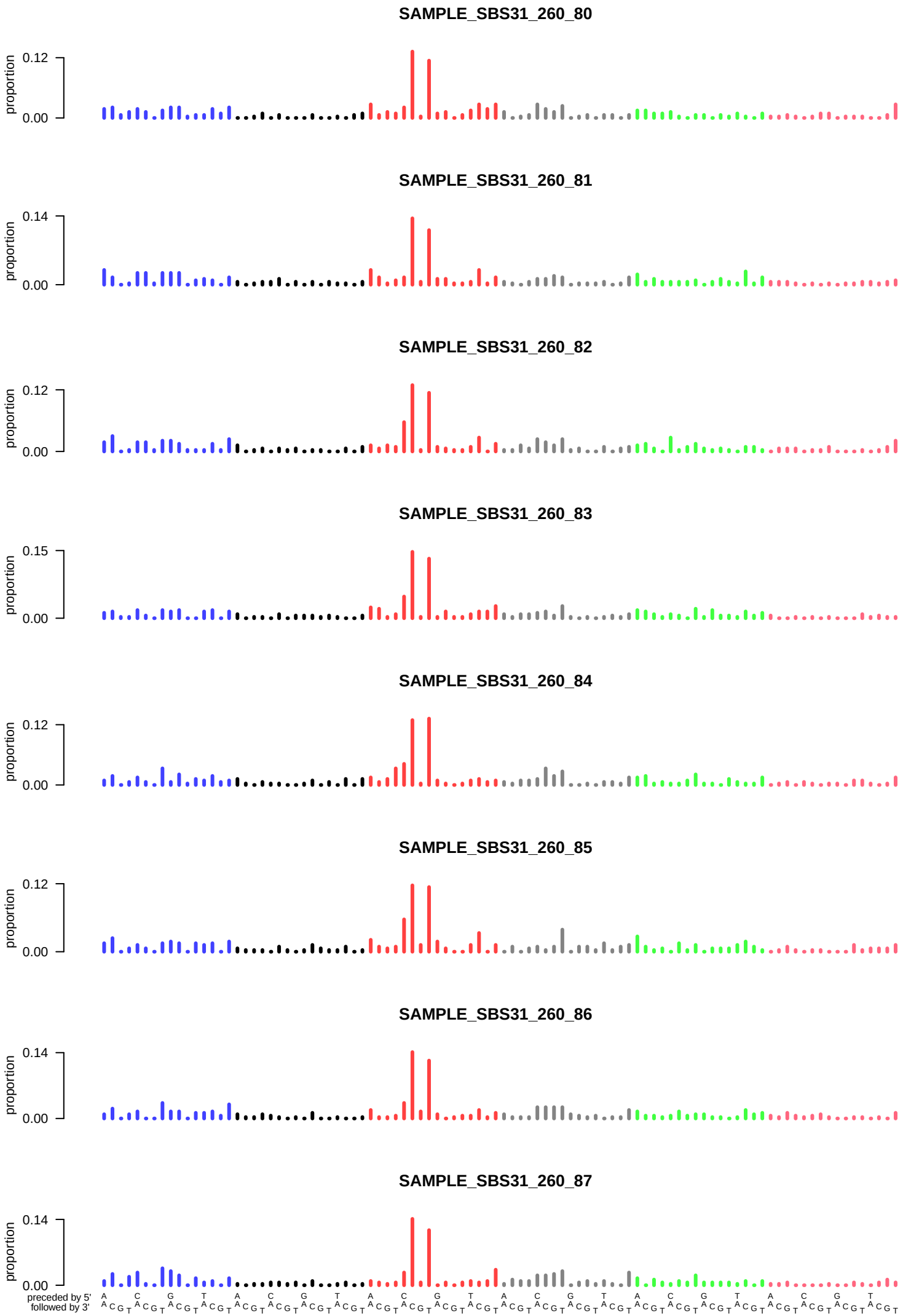
followed by 3'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SAMPLE_SBS31_260_86
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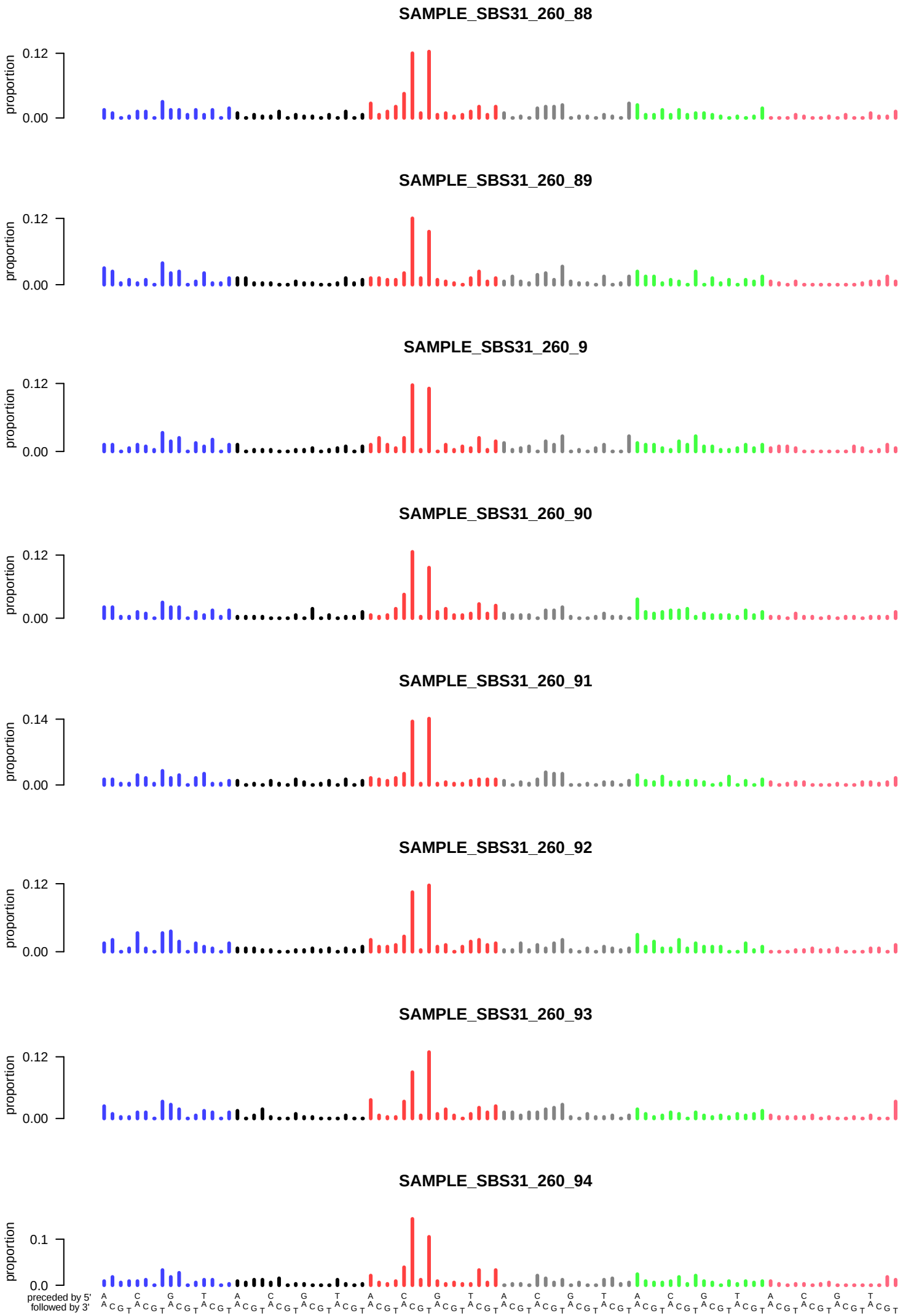
followed by 3'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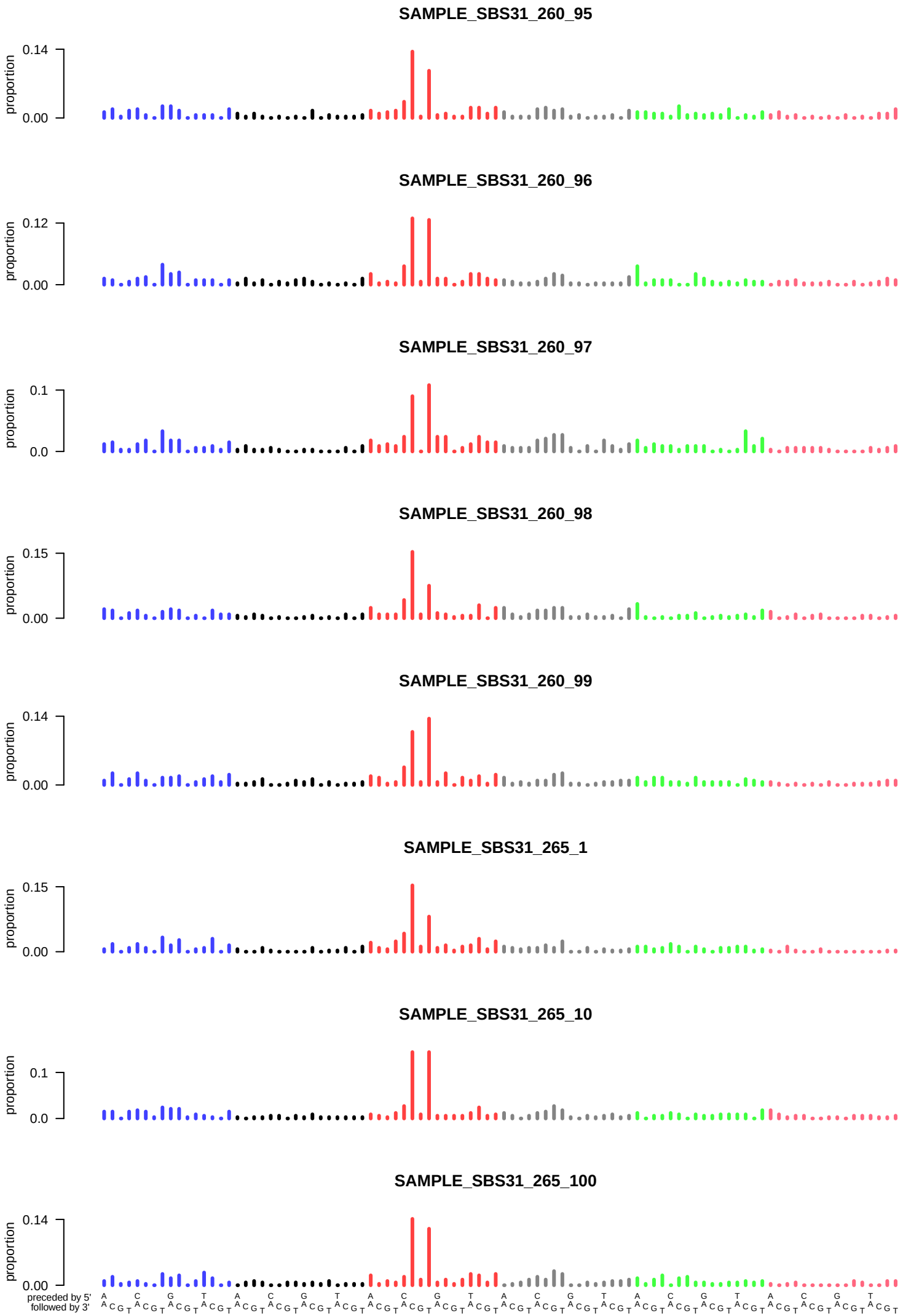
followed by 3'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SAMPLE_SBS31_260_98
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proportion
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SAMPLE_SBS31_265_10
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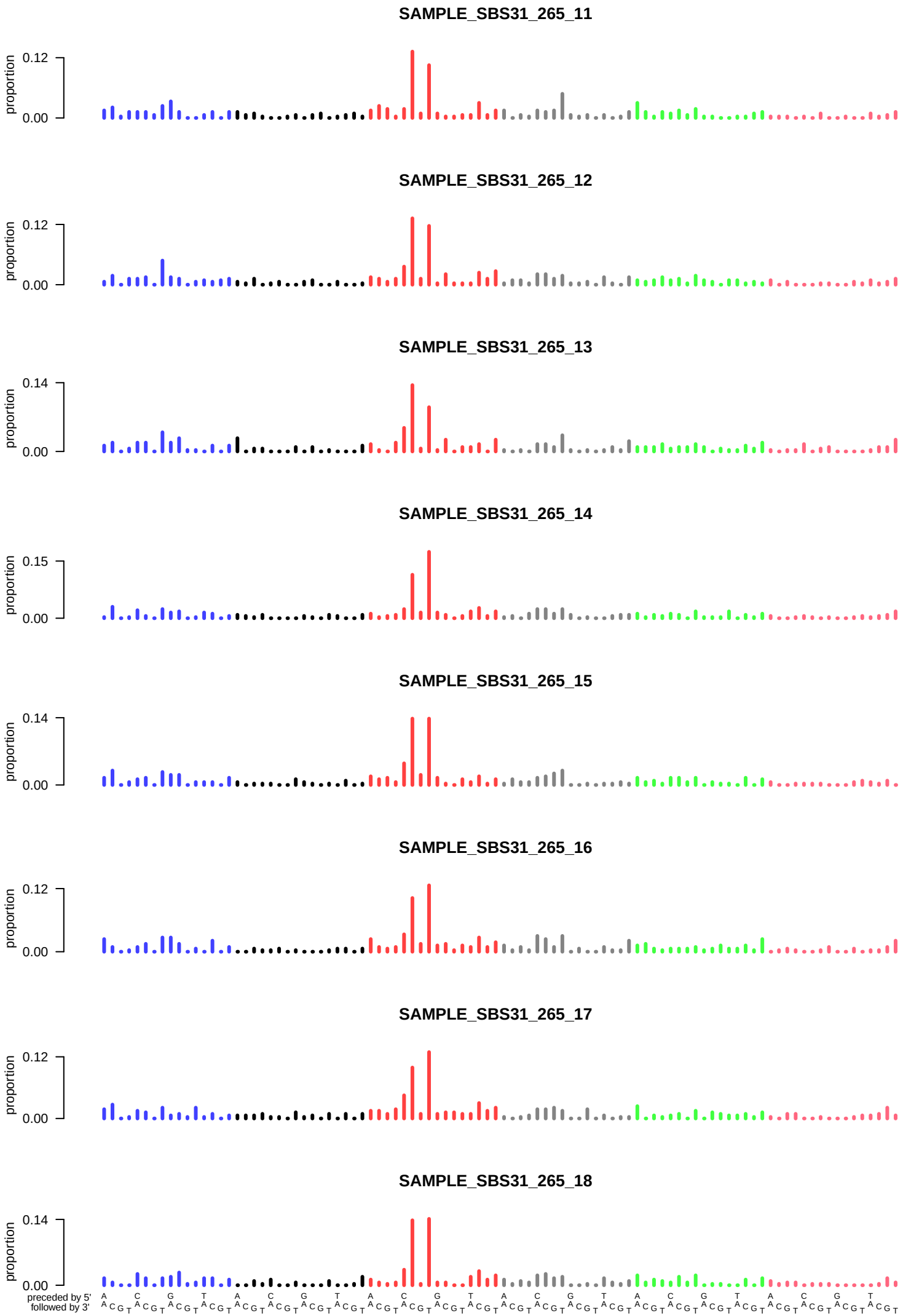
followed by 3'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proportion
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SAMPLE_SBS31_265_14
proportion
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SAMPLE_SBS31_265_15
proportion
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SAMPLE_SBS31_265_16
proportion
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SAMPLE_SBS31_265_17
proportion
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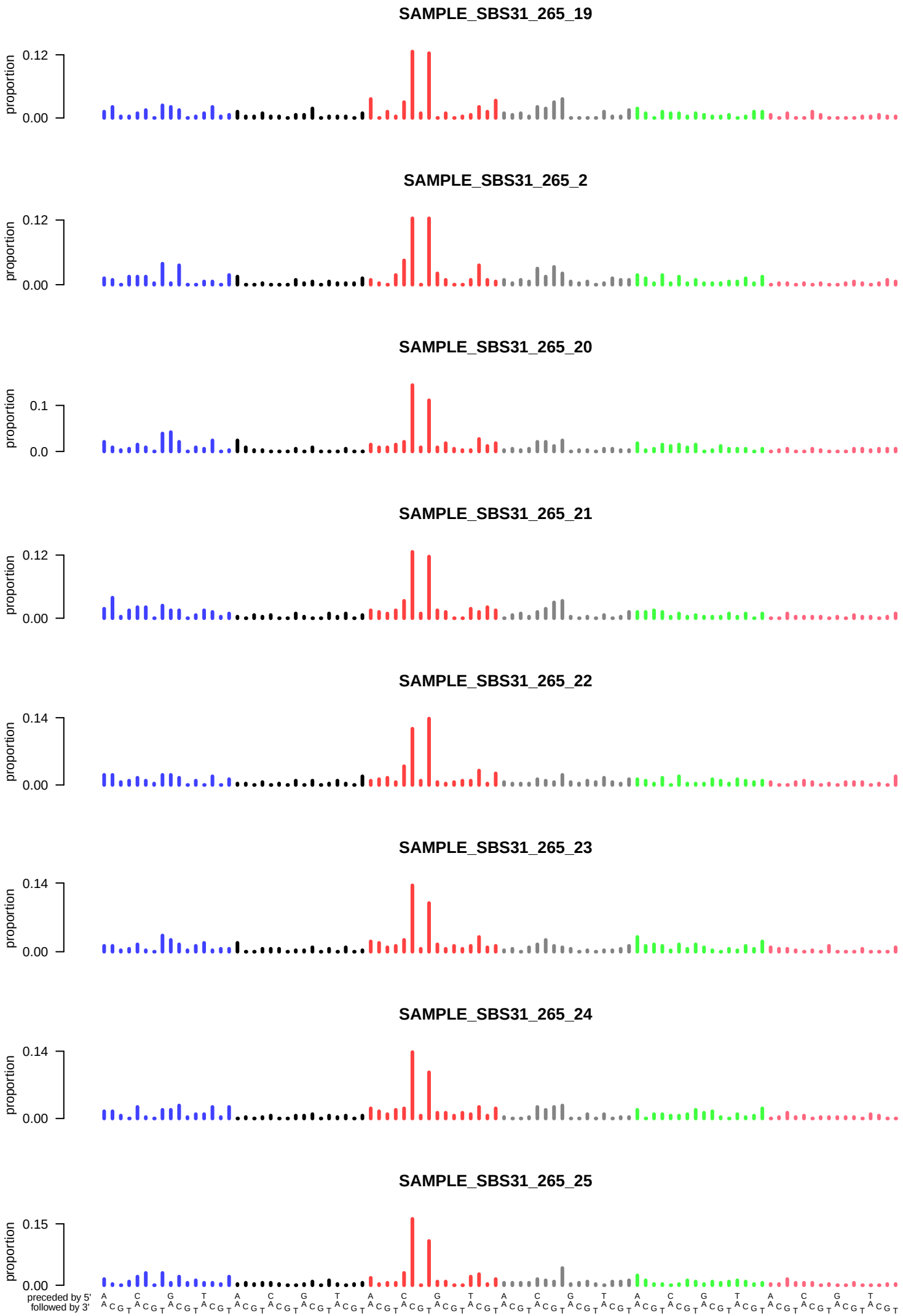
preceded by 5'
followed by 3'
A C G T A C G T A C G T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SAMPLE_SBS31_265_22
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SAMPLE_SBS31_265_23
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SAMPLE_SBS31_265_24
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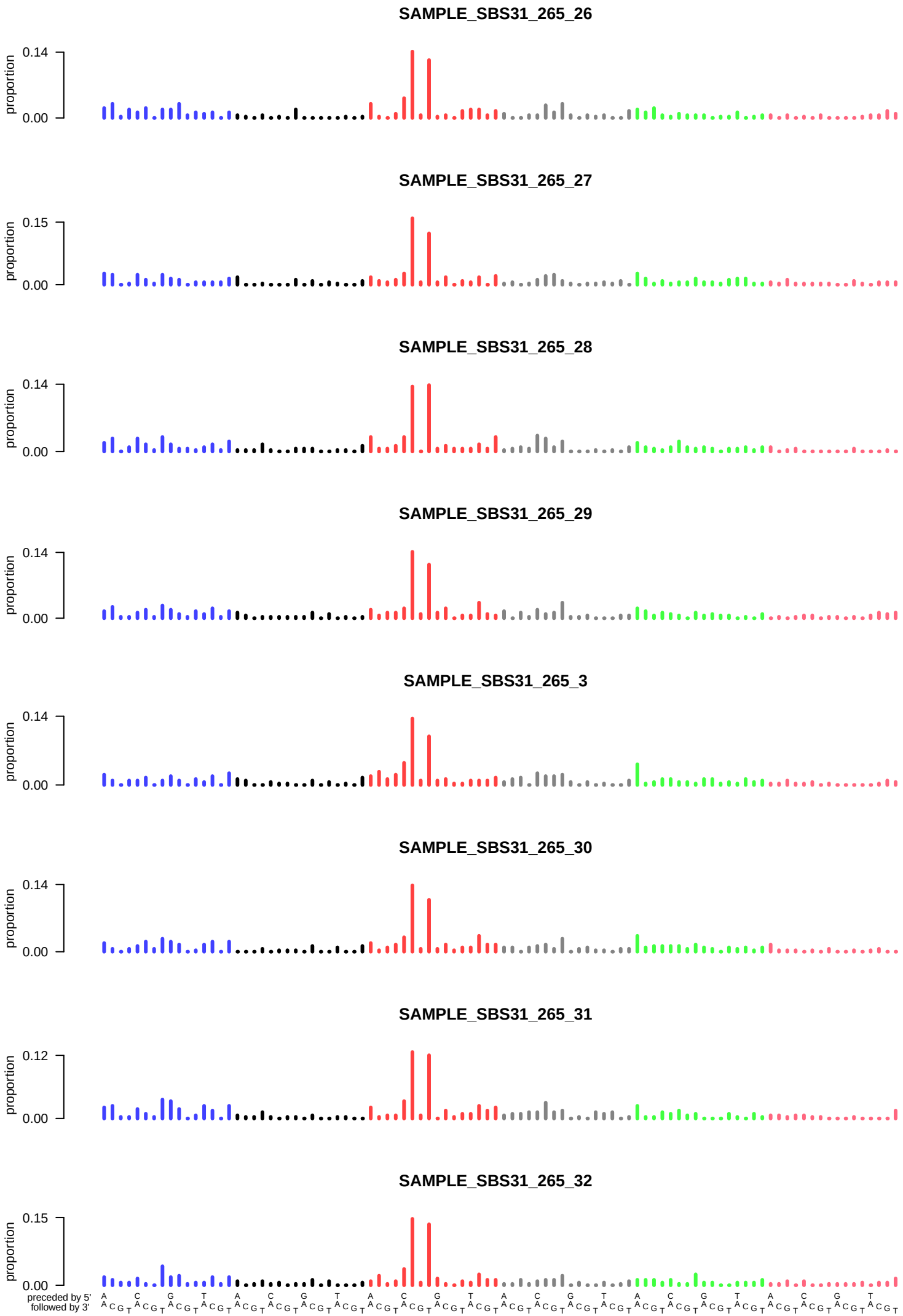
followed by 3'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SAMPLE_SBS31_265_31
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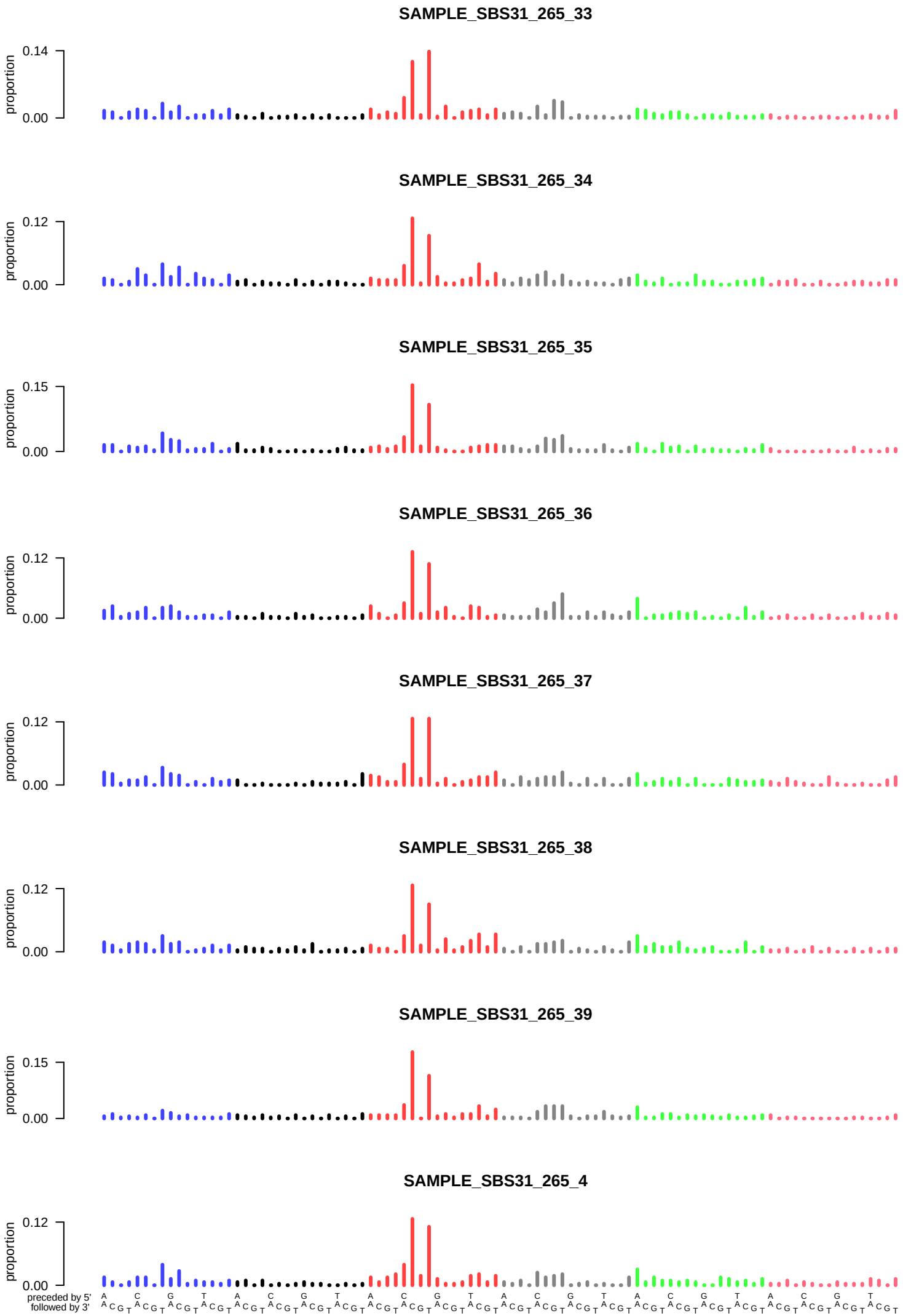
followed by 3'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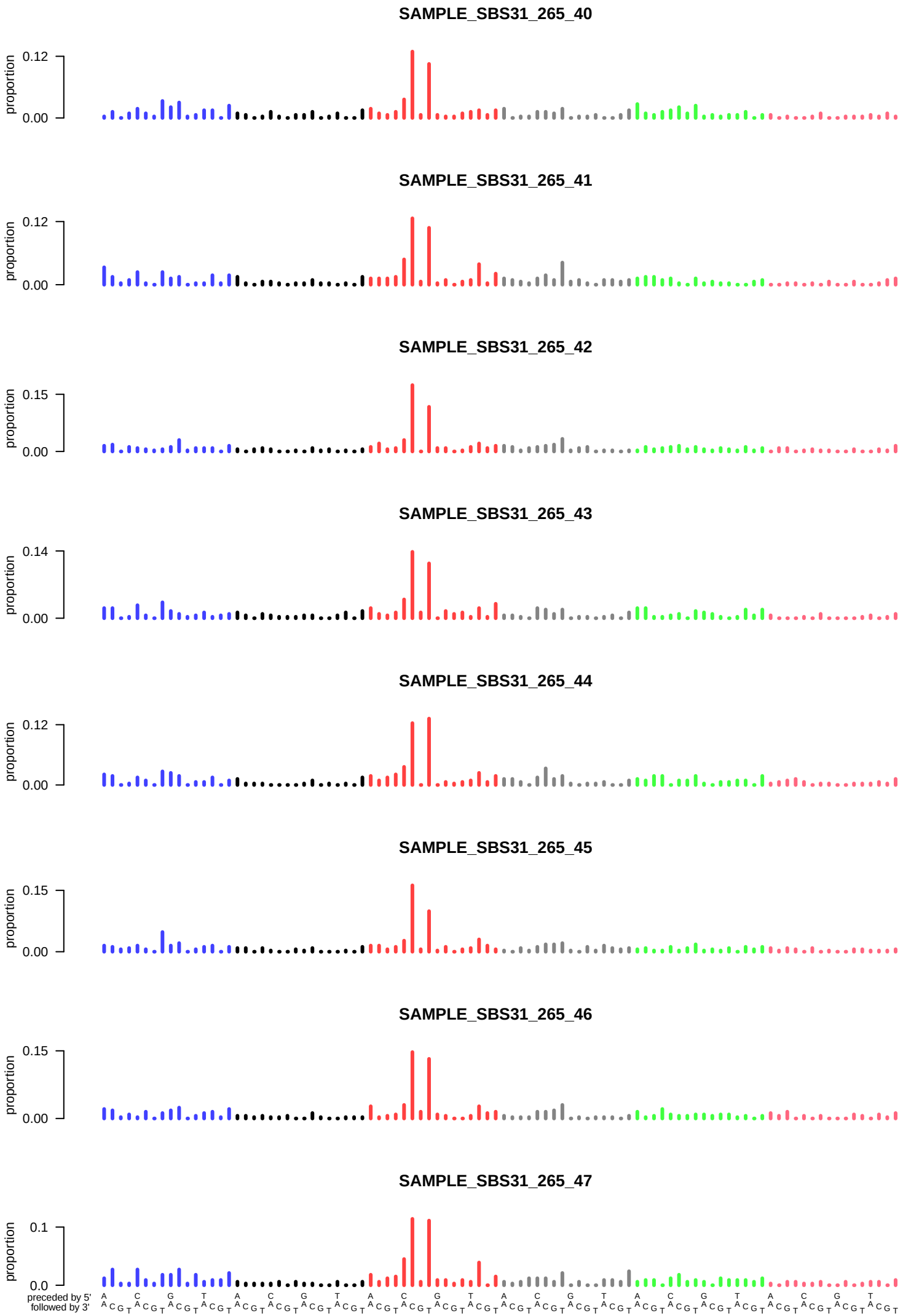
followed by 3'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SAMPLE_SBS31_265_45
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SAMPLE_SBS31_265_46
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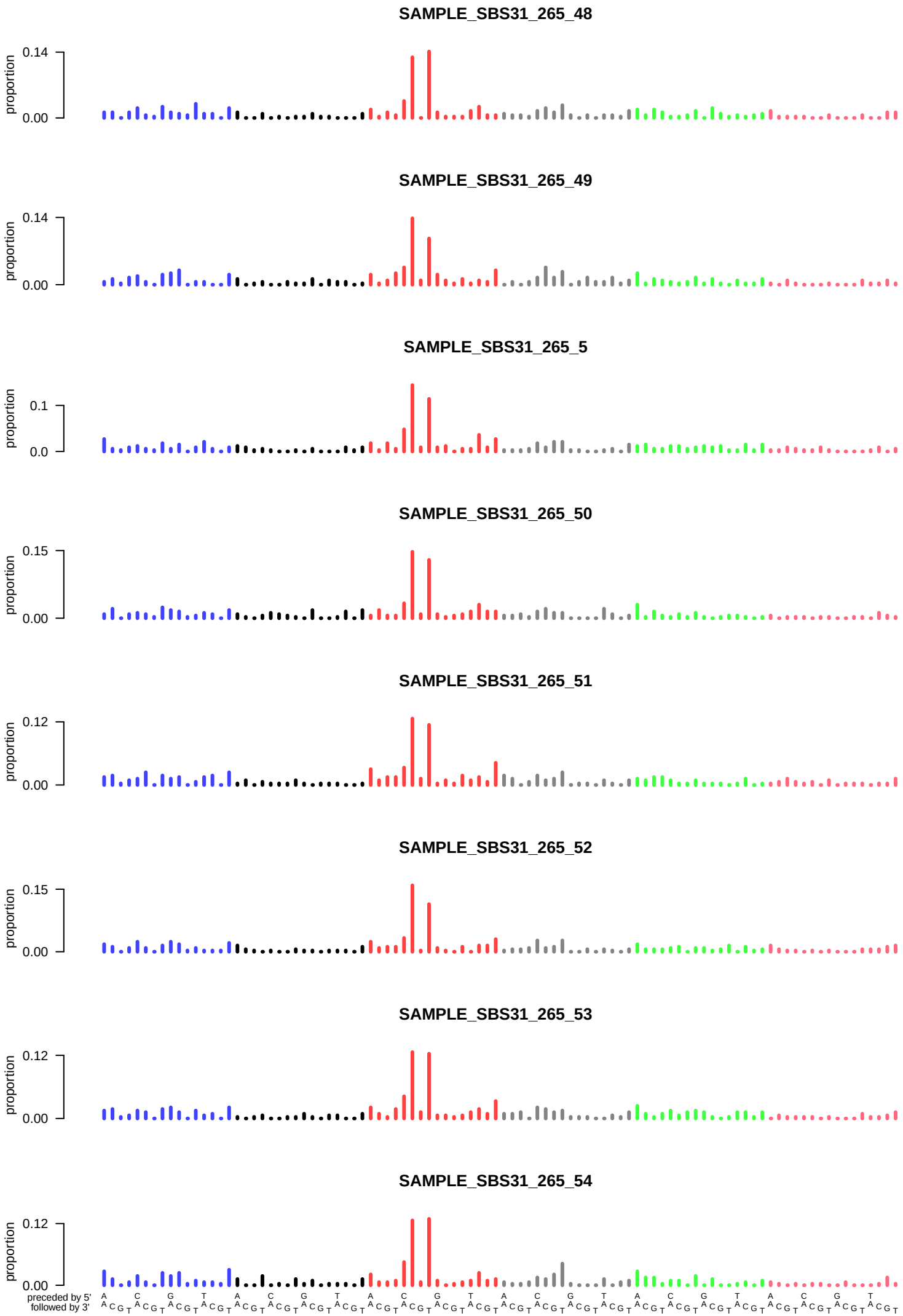
followed by 3'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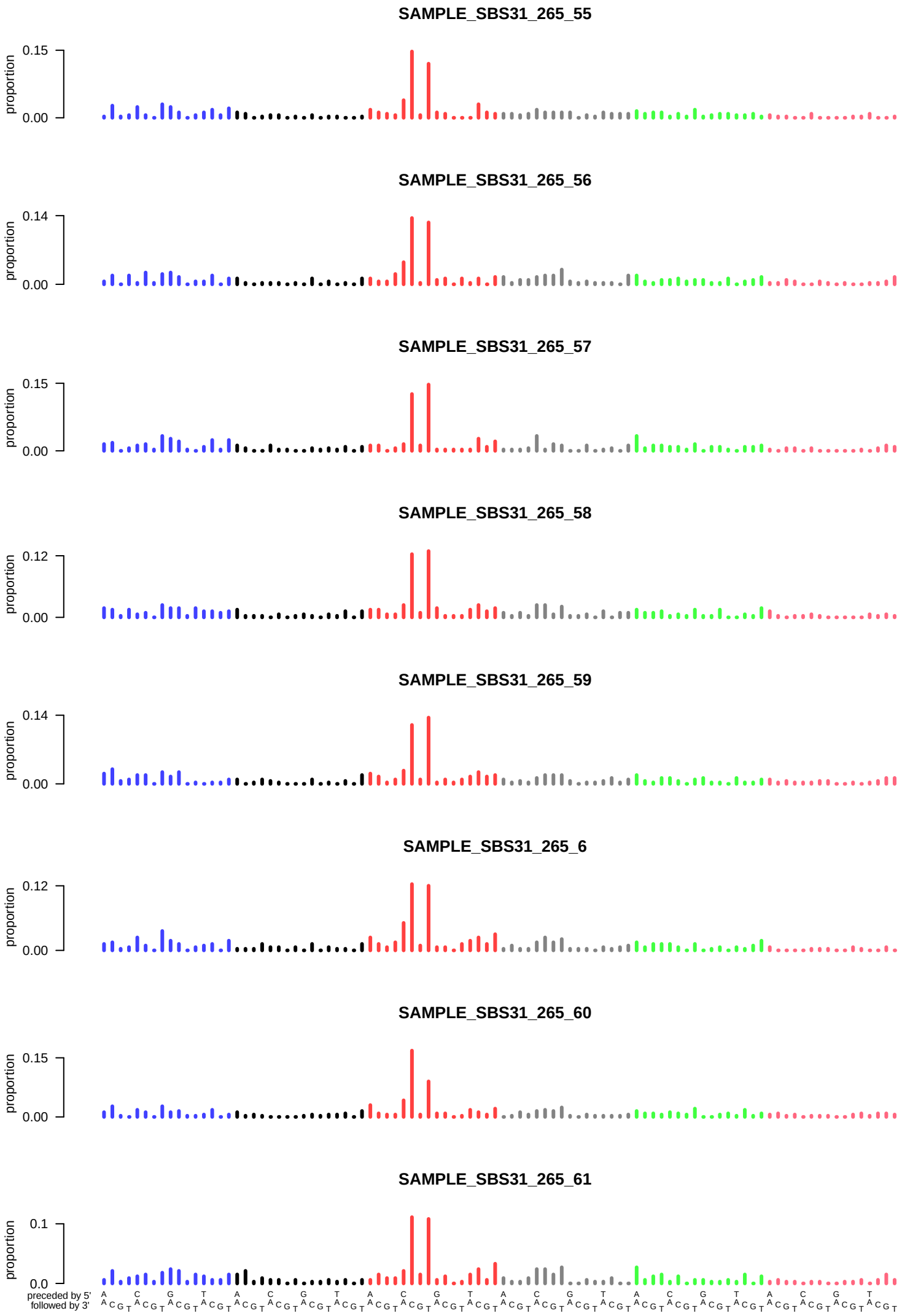
followed by 3'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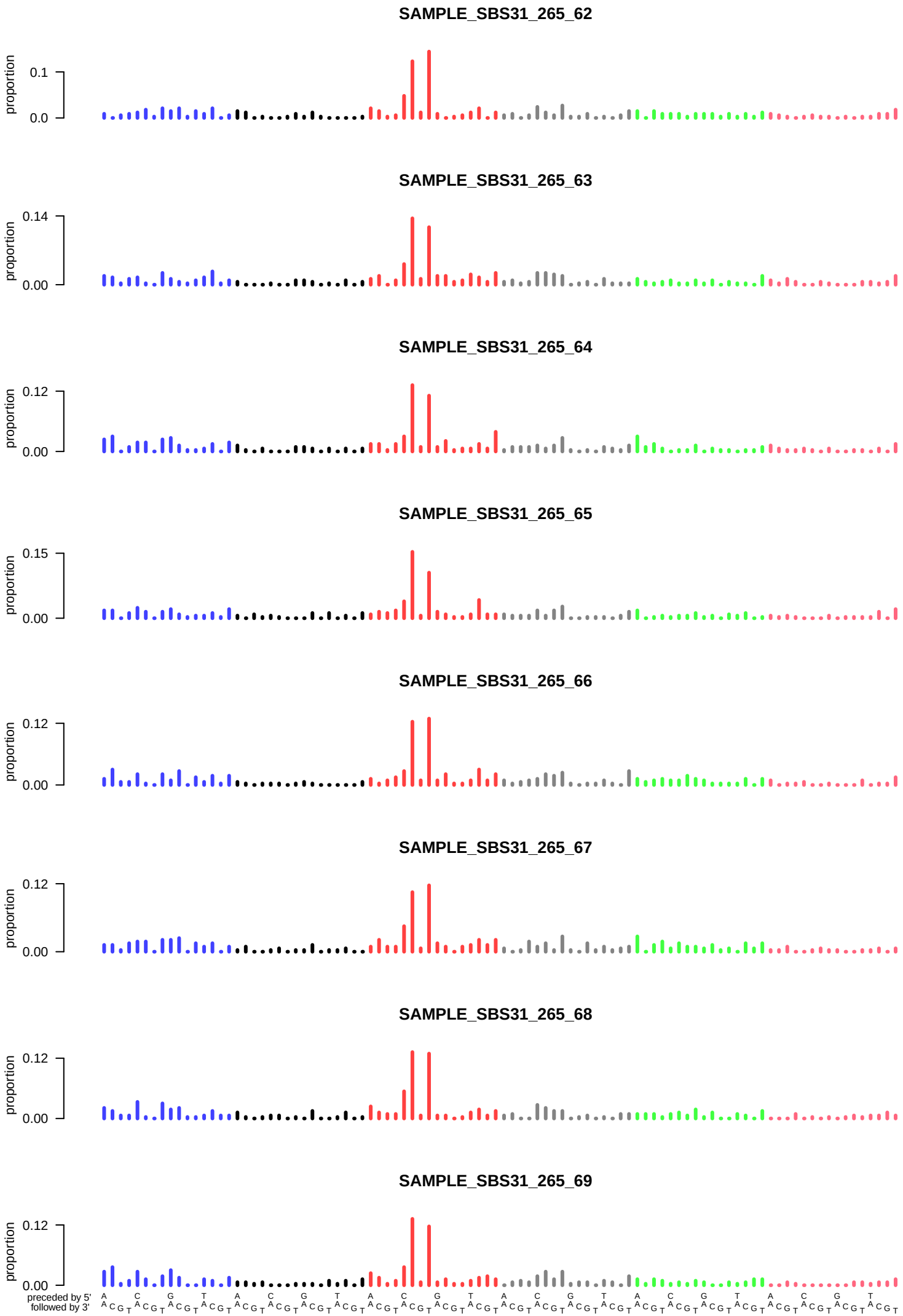
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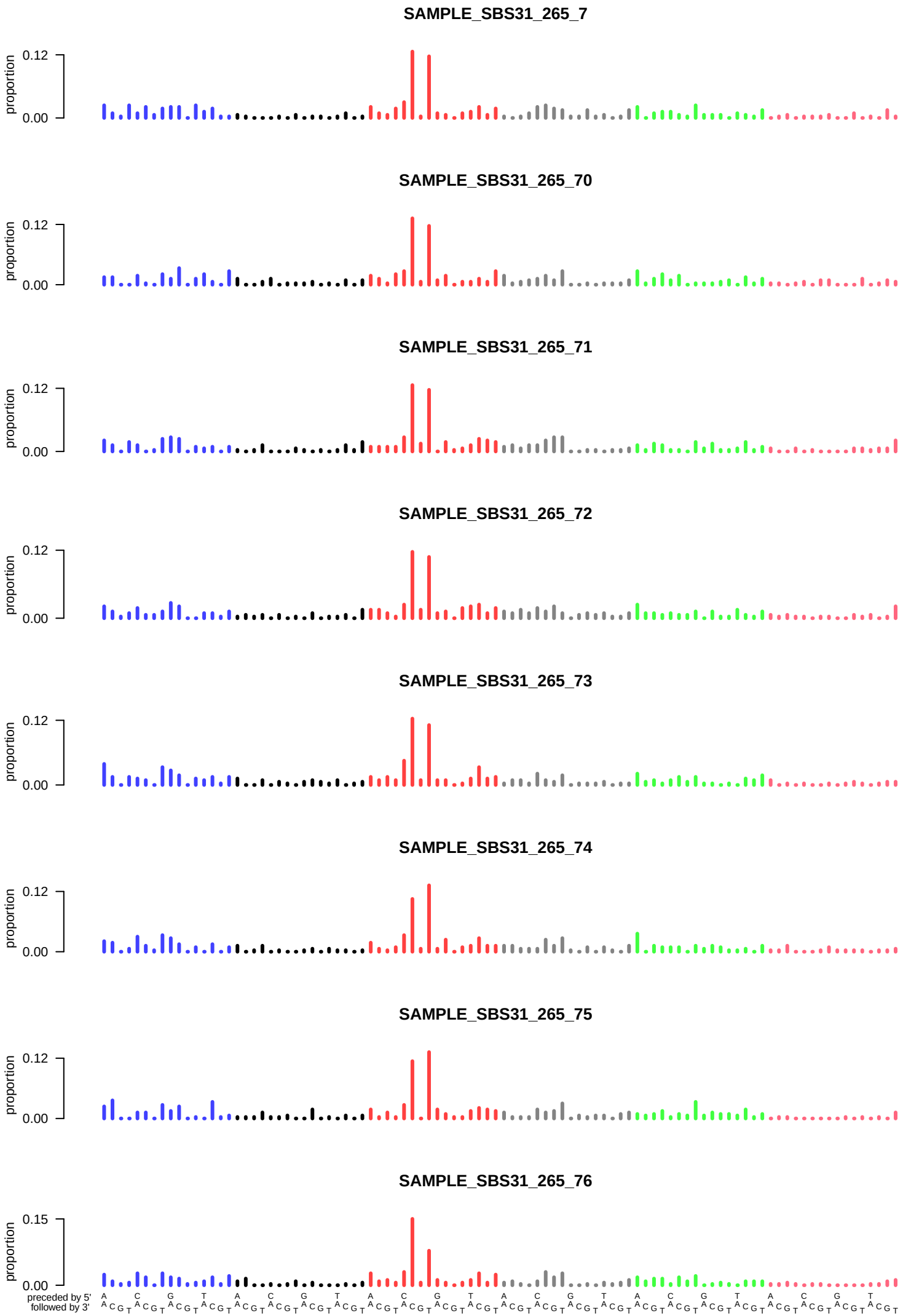
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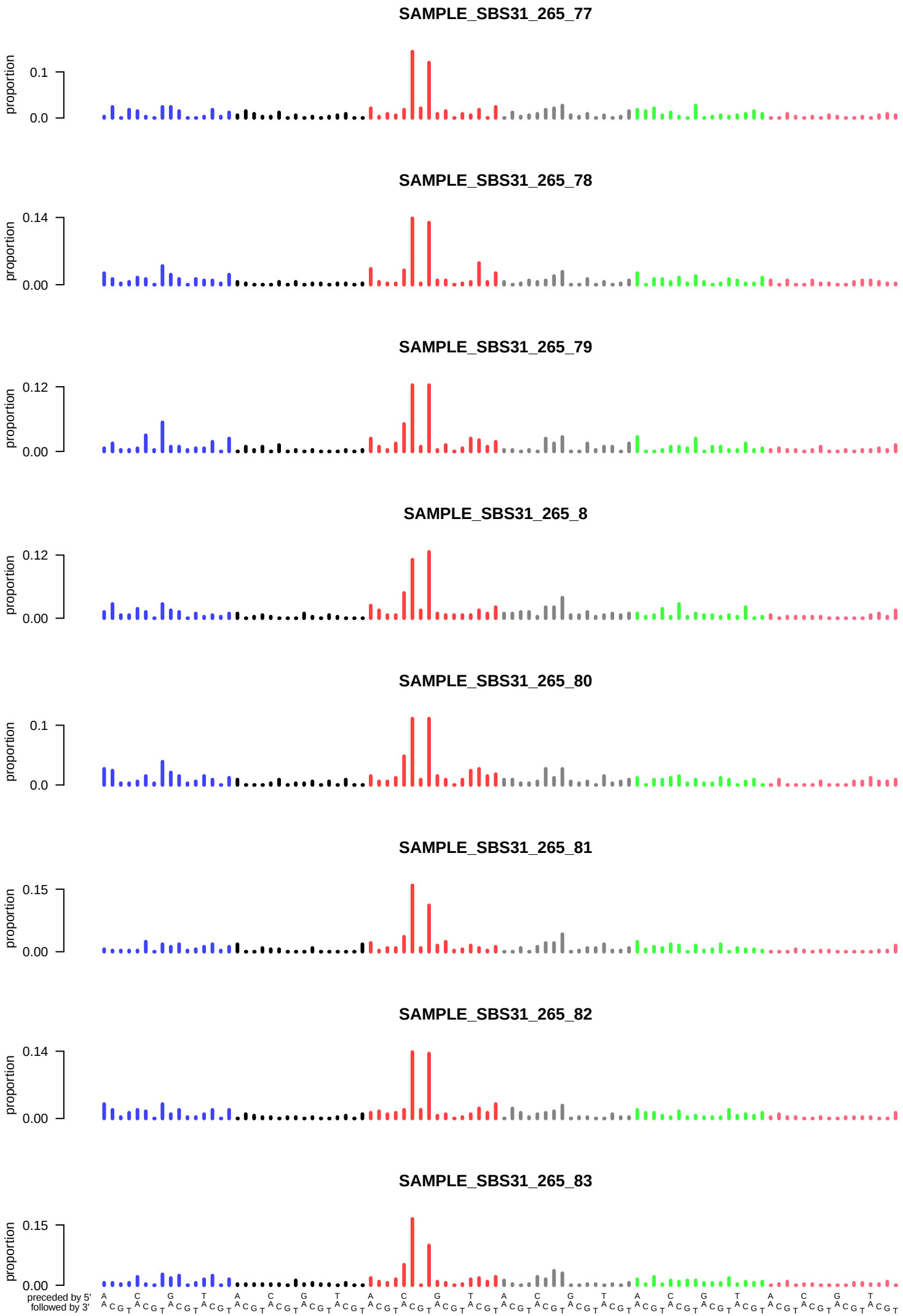
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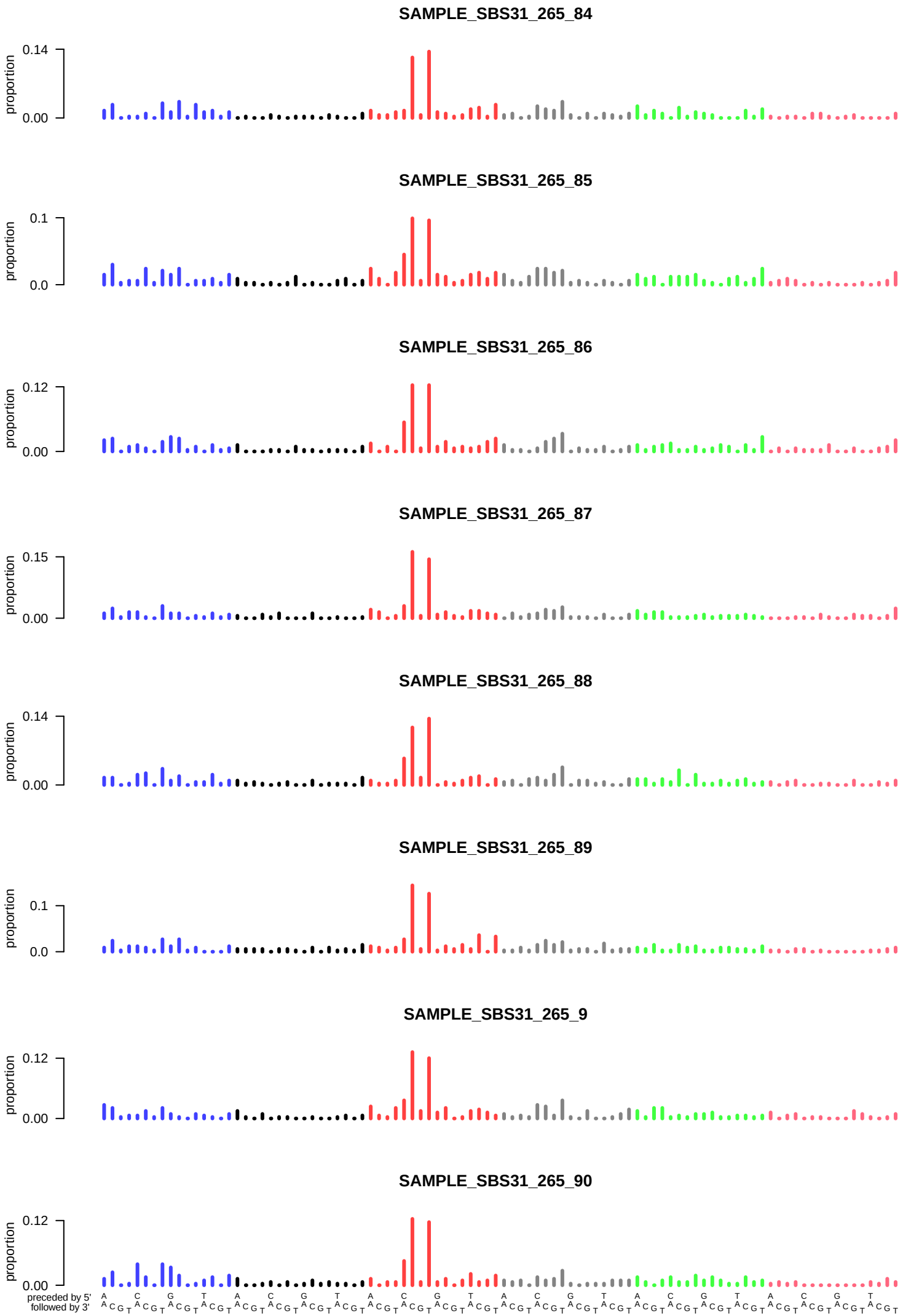
followed by 3'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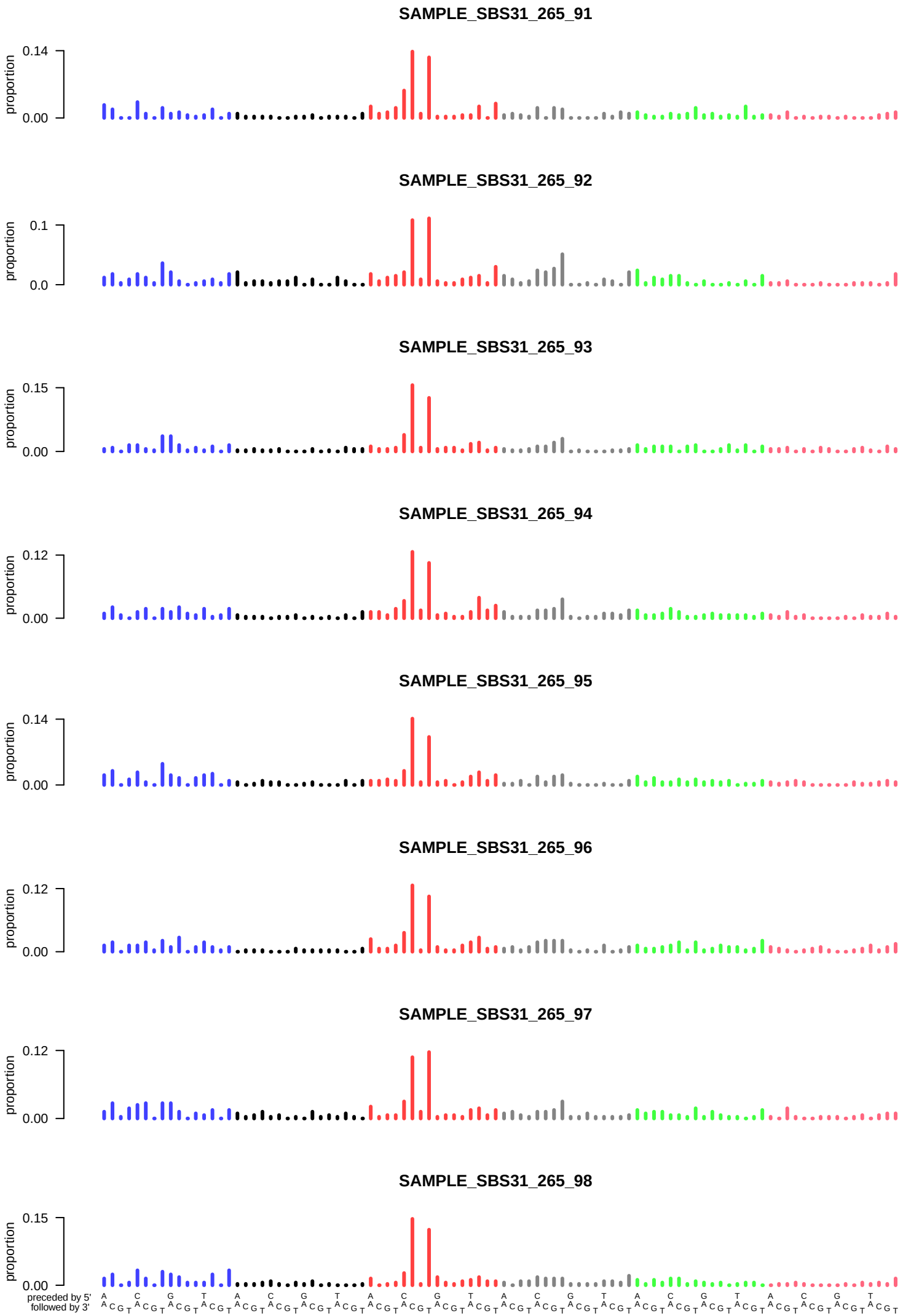
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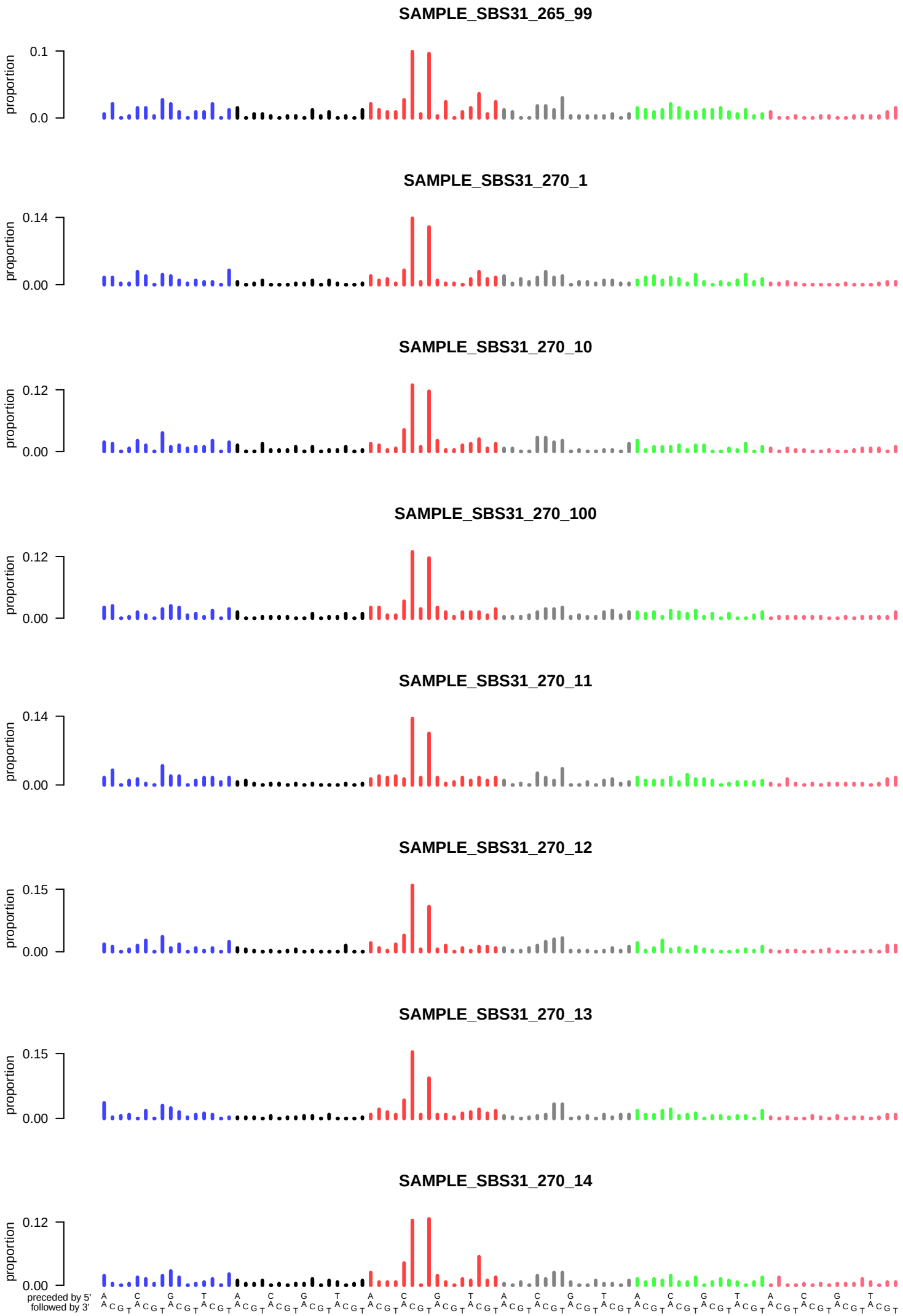
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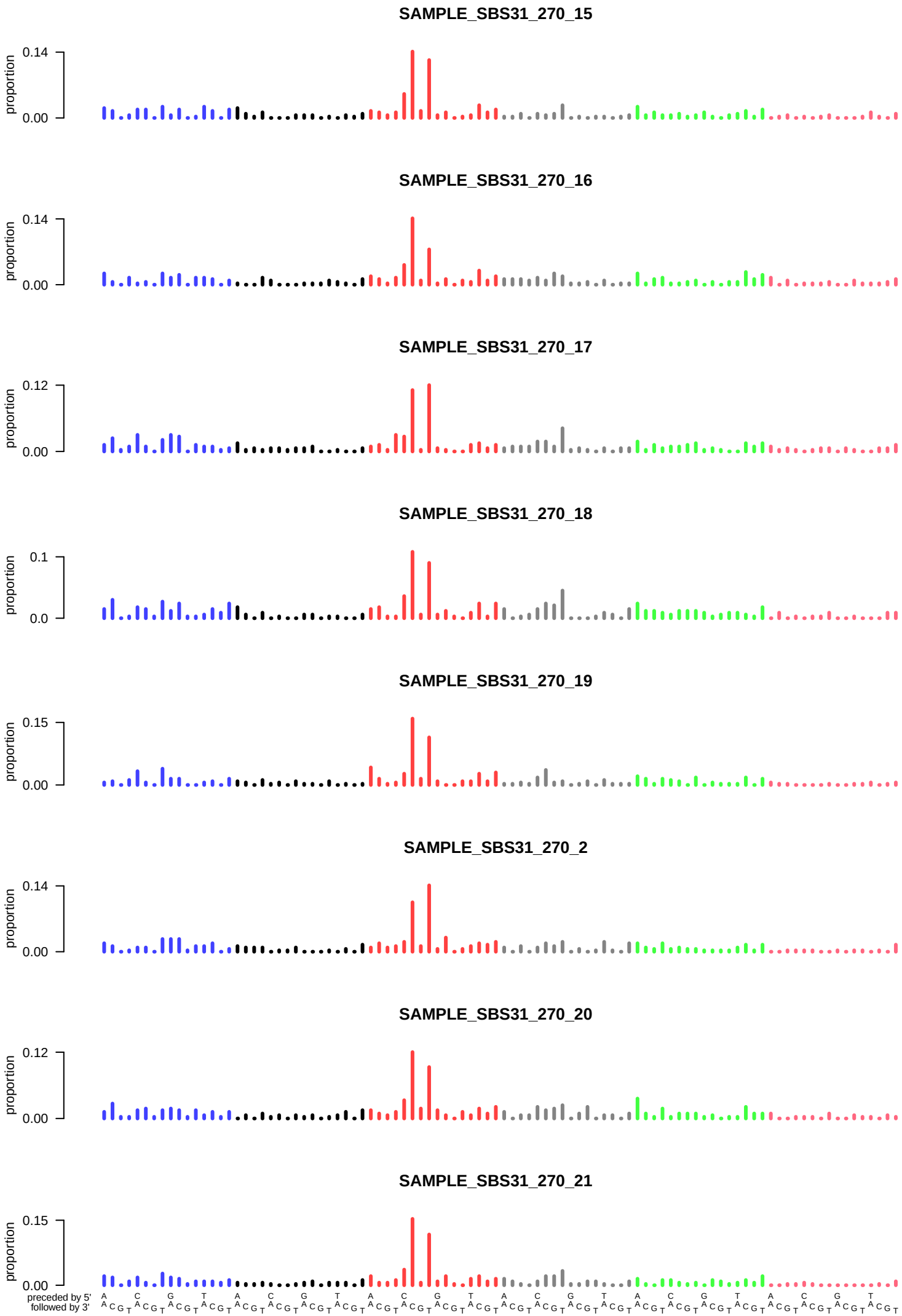
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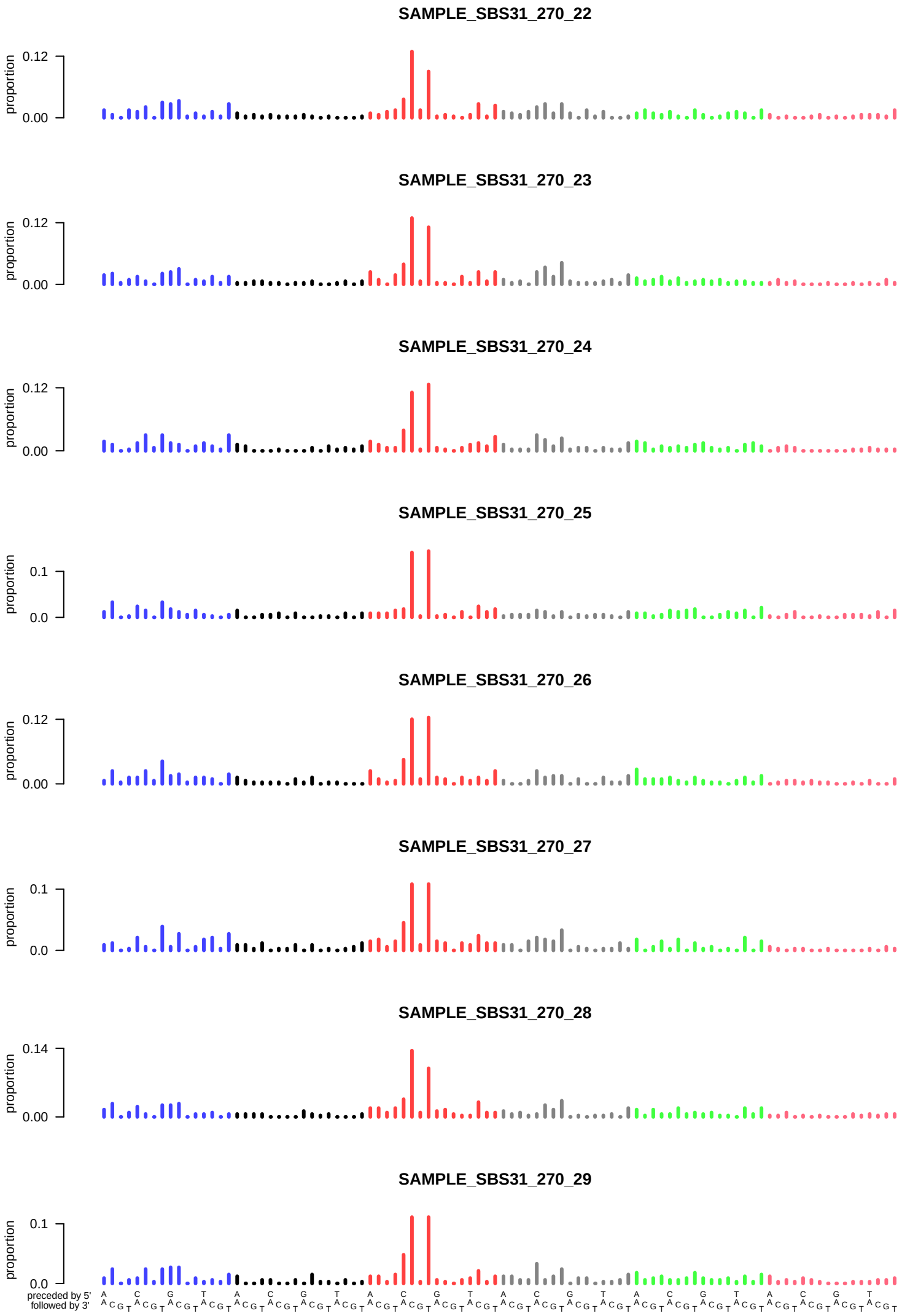
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SAMPLE_SBS31_270_26
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SAMPLE_SBS31_270_27
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SAMPLE_SBS31_270_28
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proportion
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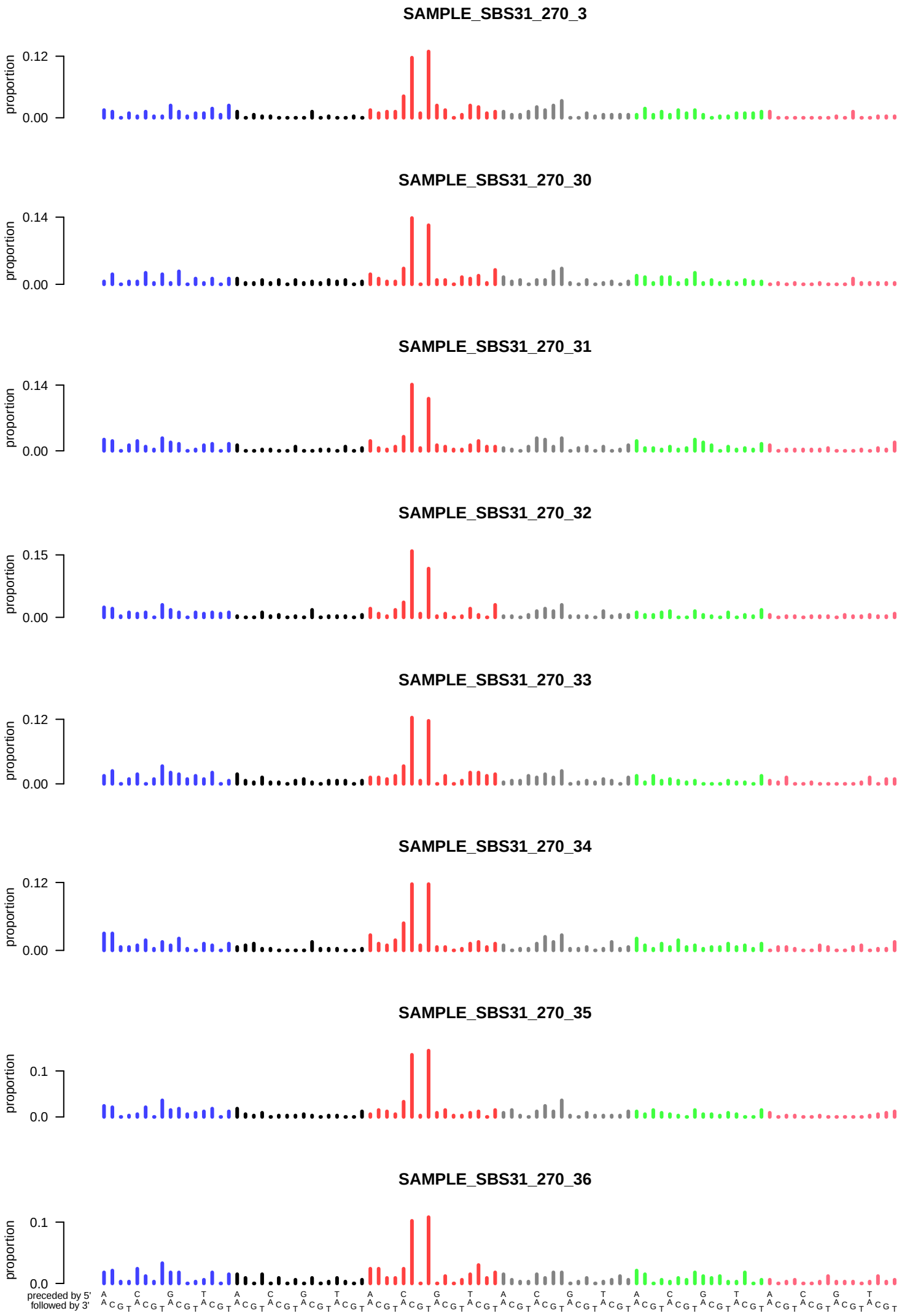
preceded by 5'
followed by 3'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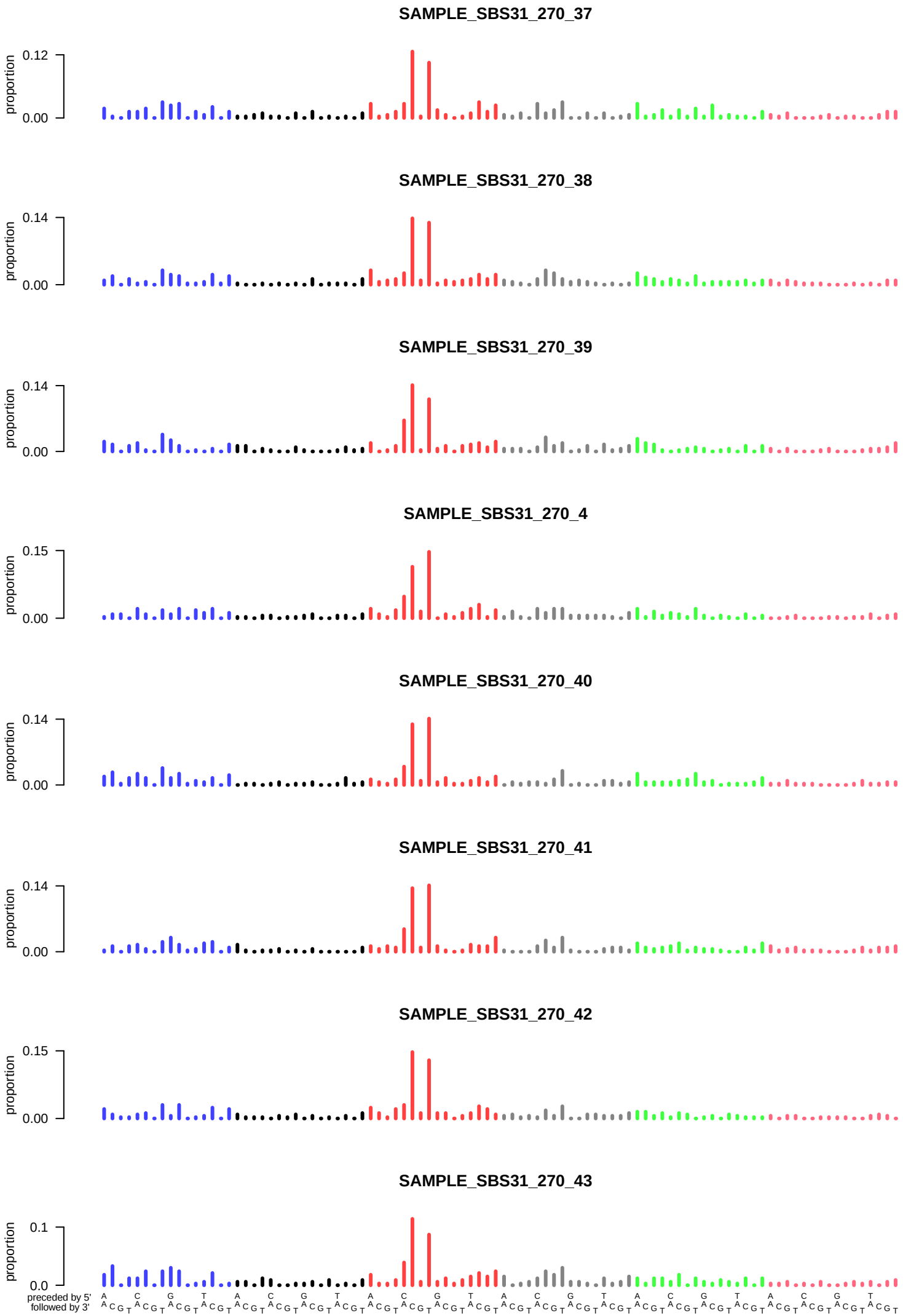
followed by 3'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SAMPLE_SBS31_270_42
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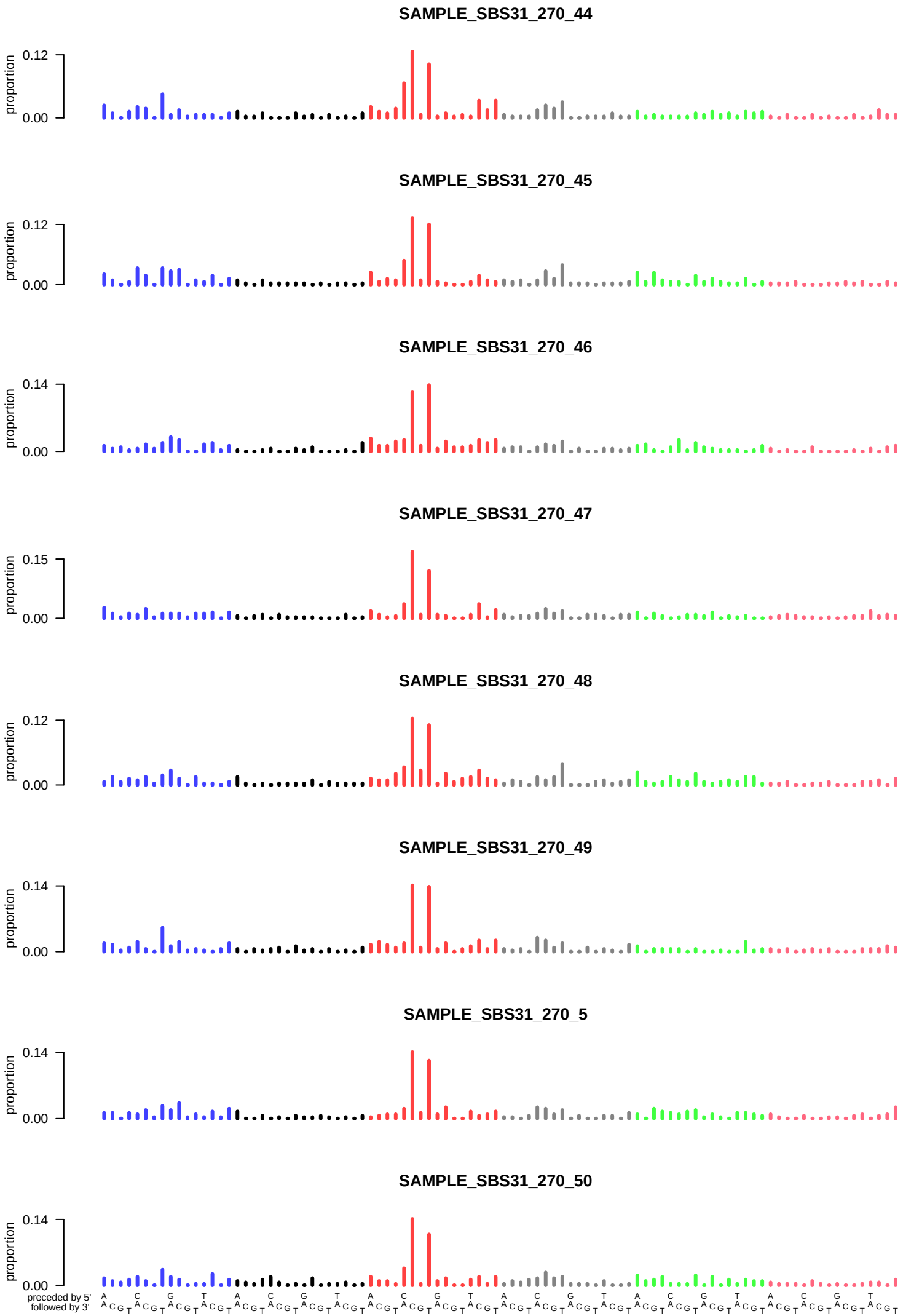
followed by 3'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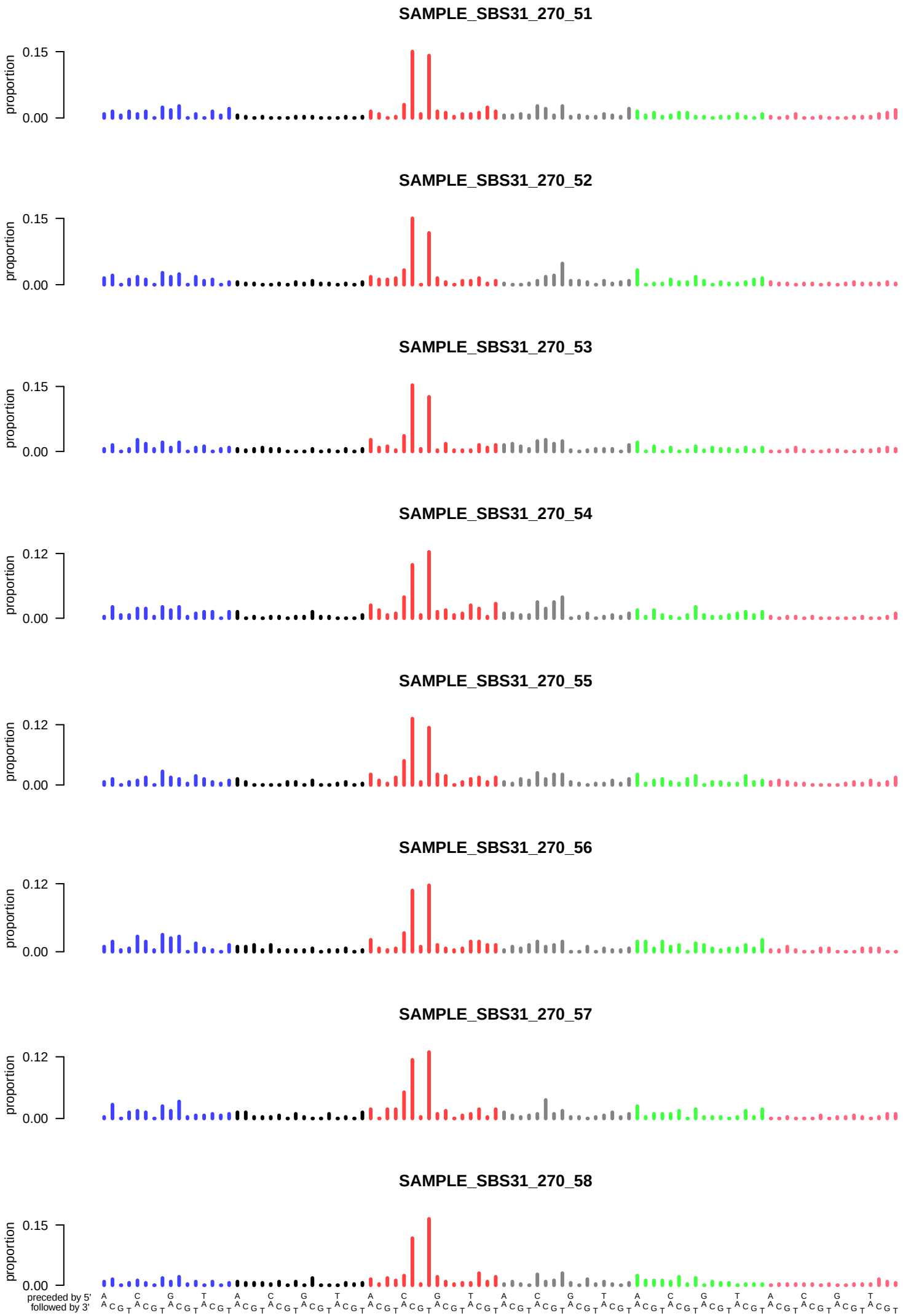
followed by 3'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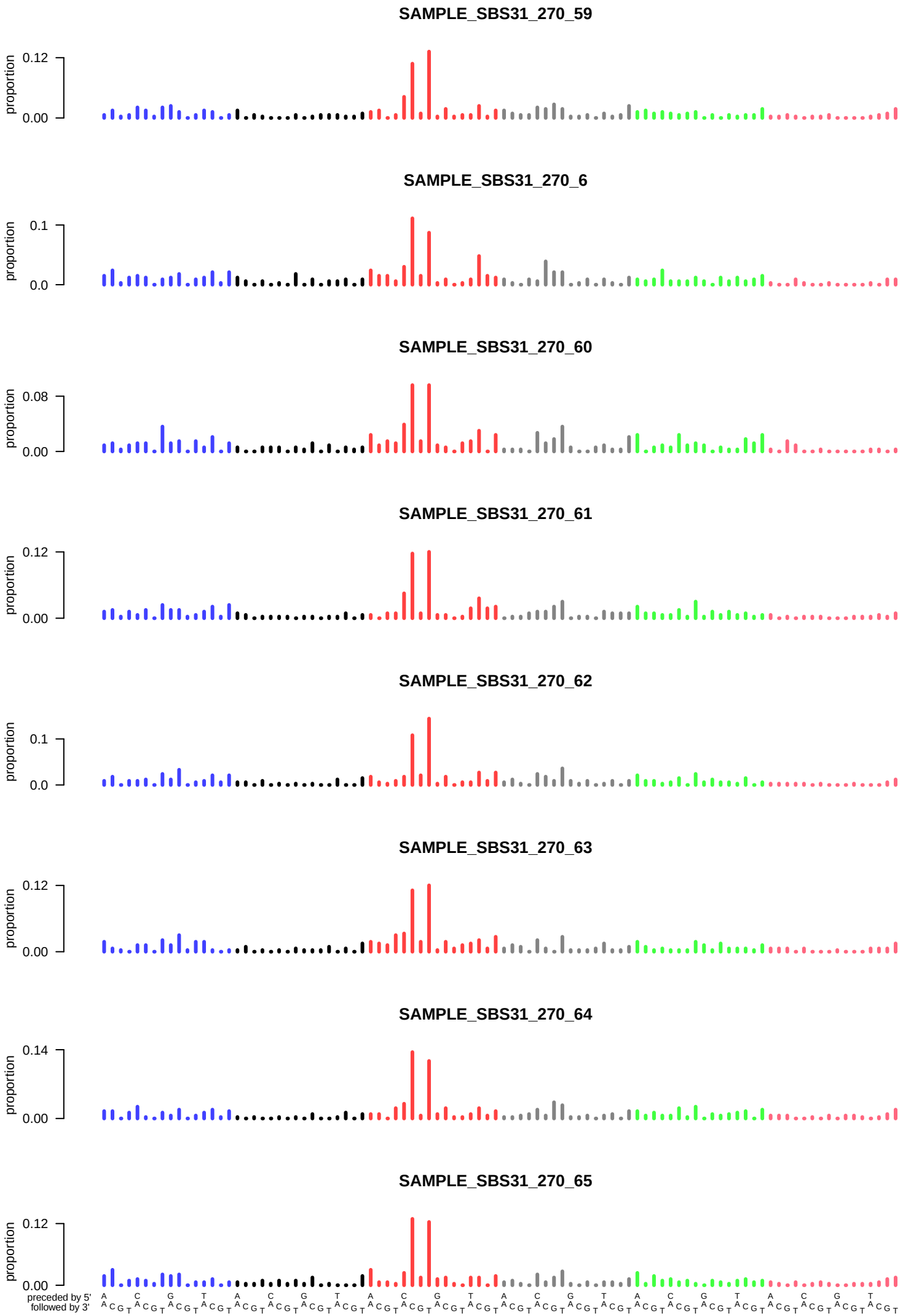
followed by 3'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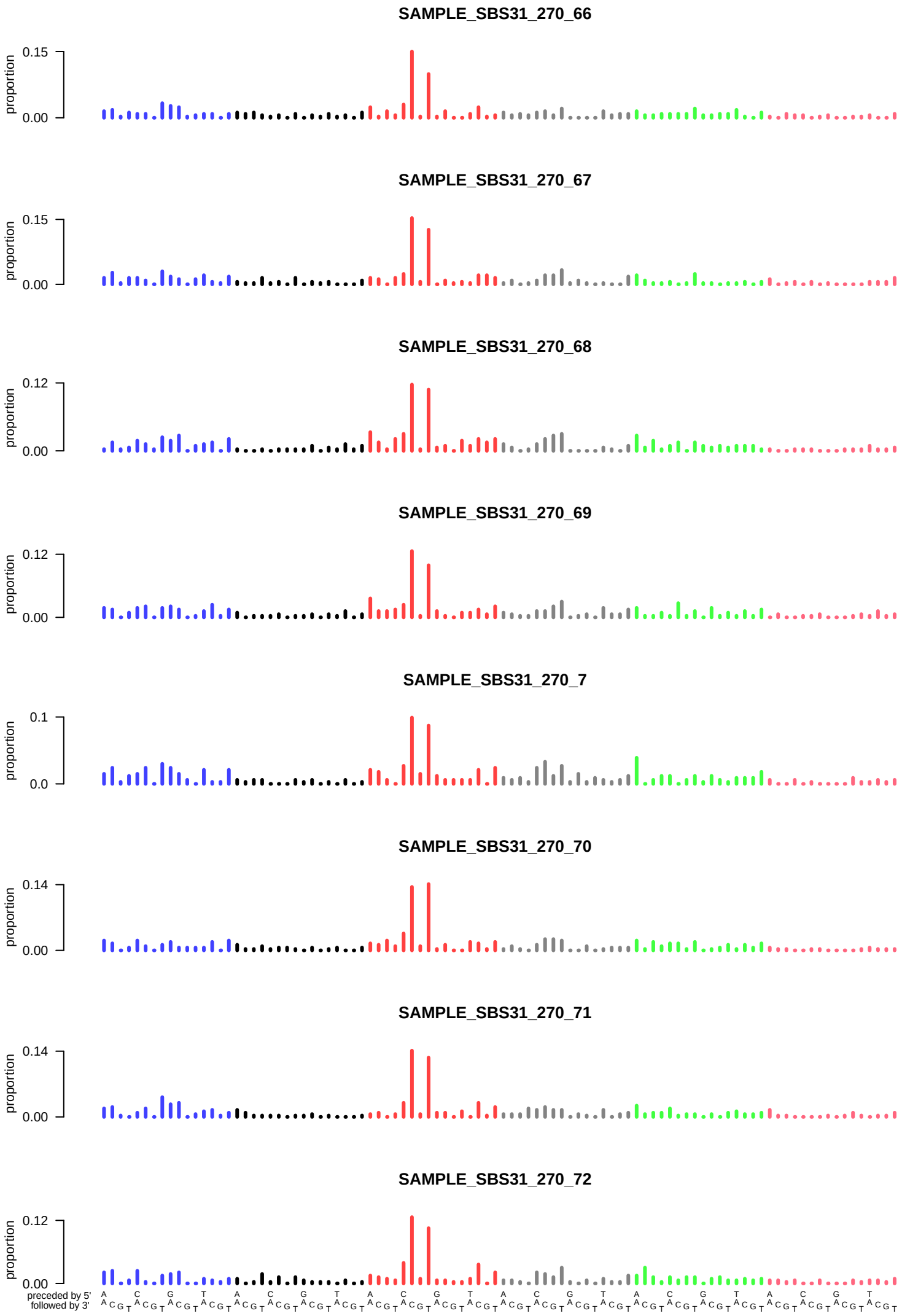
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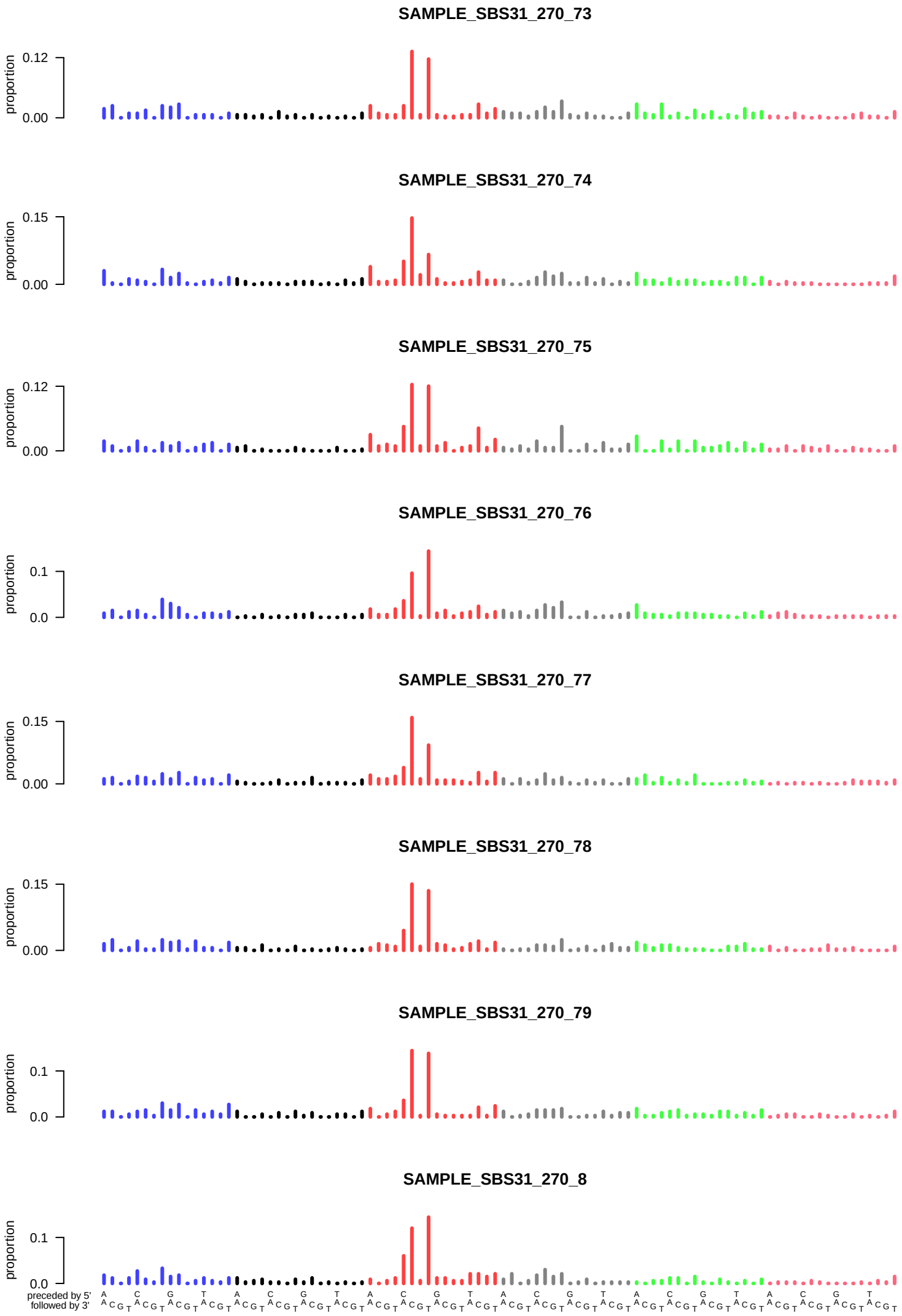
followed by 3'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SAMPLE_SBS31_270_76
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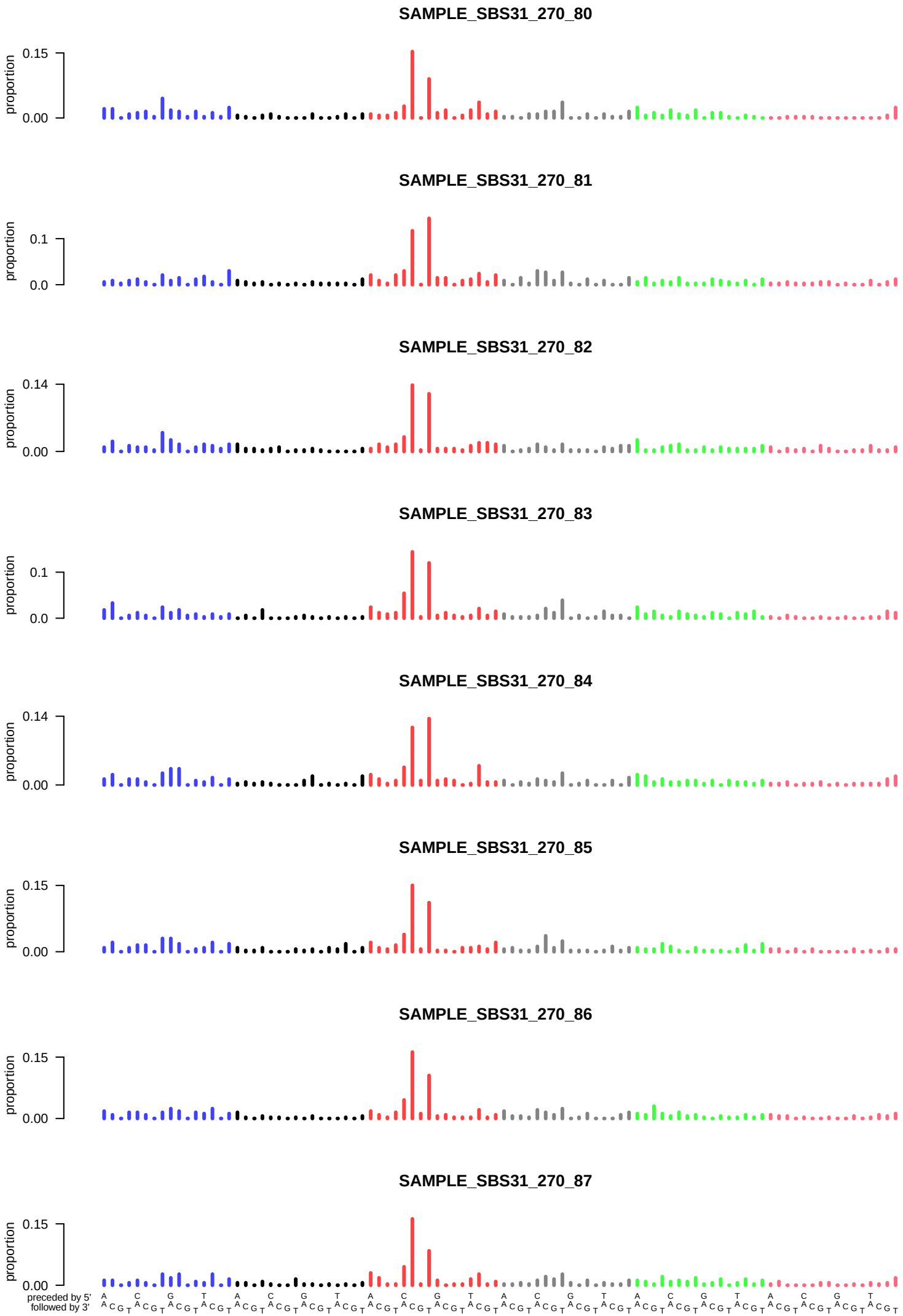
preceded by 5'
followed by 3'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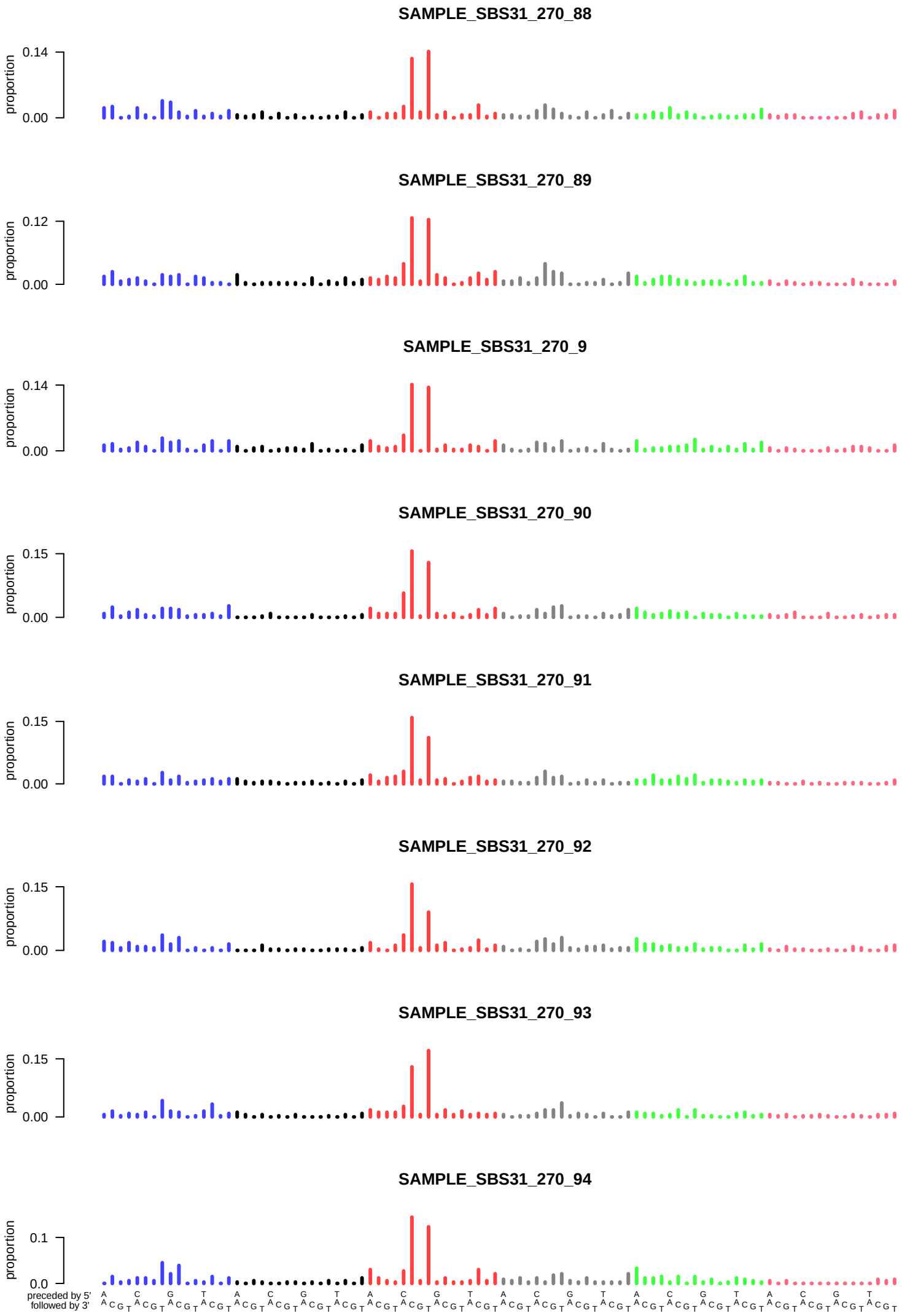
followed by 3'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SAMPLE_SBS31_270_90
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SAMPLE_SBS31_270_91
proportion
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SAMPLE_SBS31_270_92
proportion
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SAMPLE_SBS31_270_93
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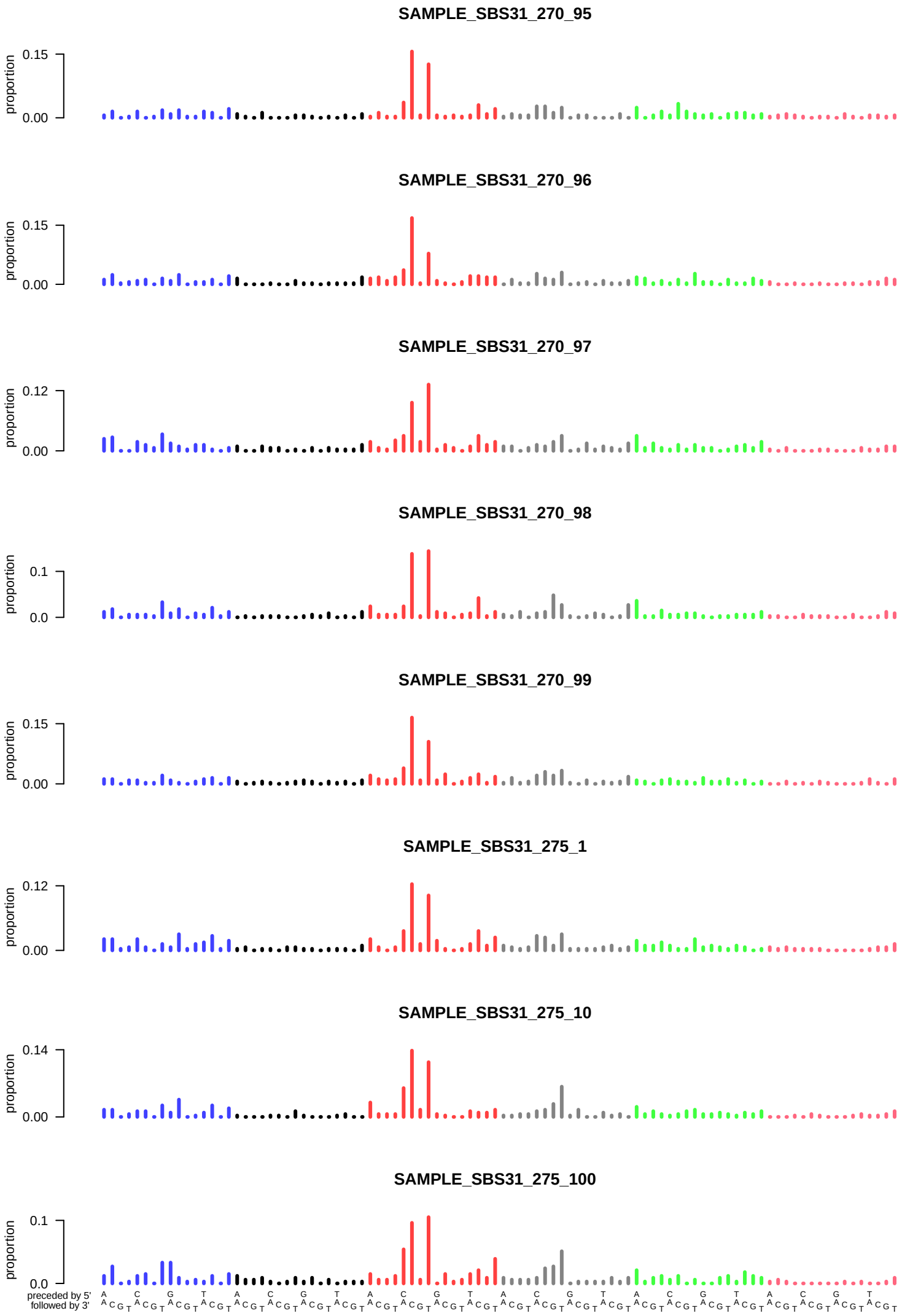
followed by 3'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proportion
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SAMPLE_SBS31_275_1
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SAMPLE_SBS31_275_10
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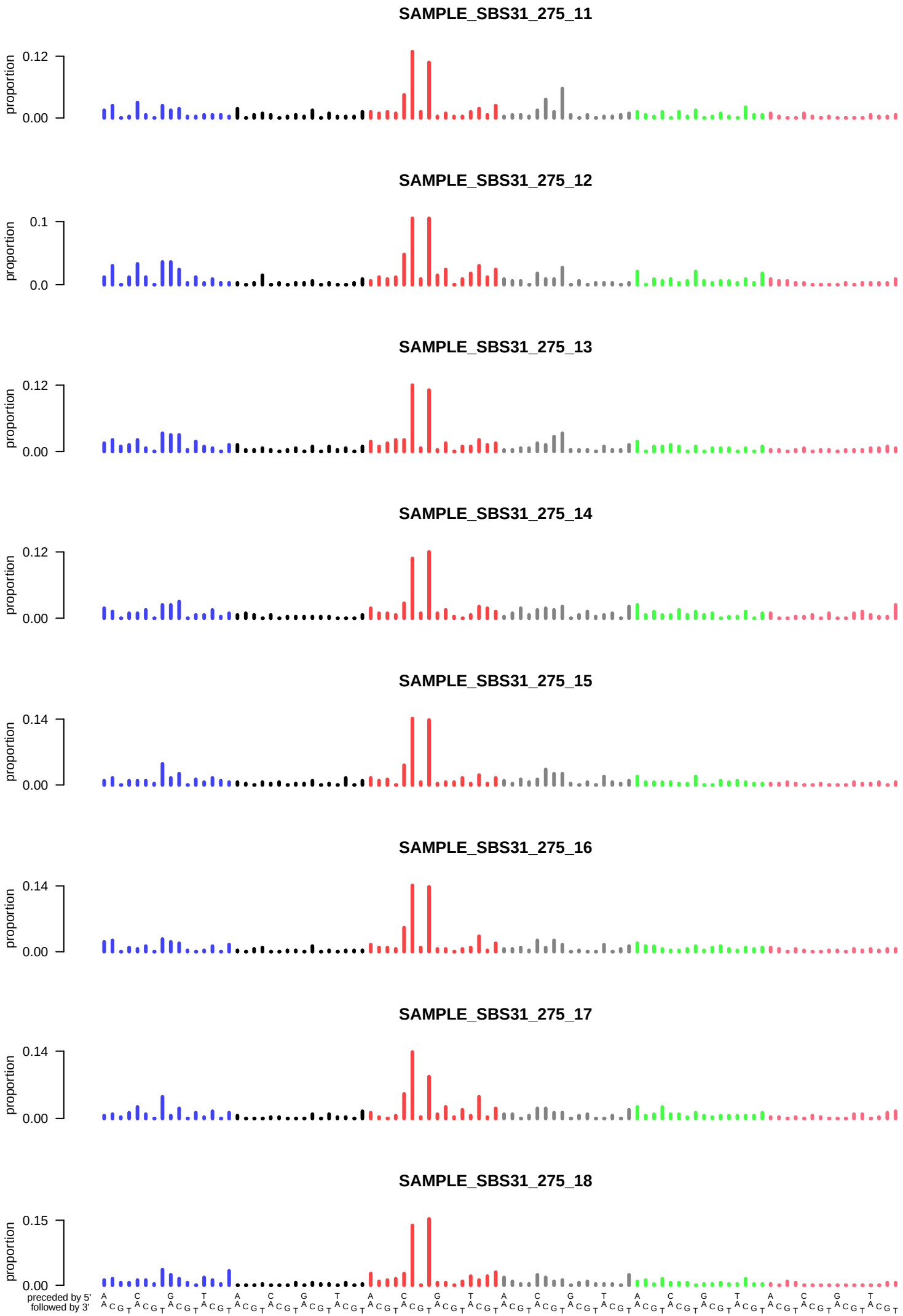
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SAMPLE_SBS31_275_16
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SAMPLE_SBS31_275_17
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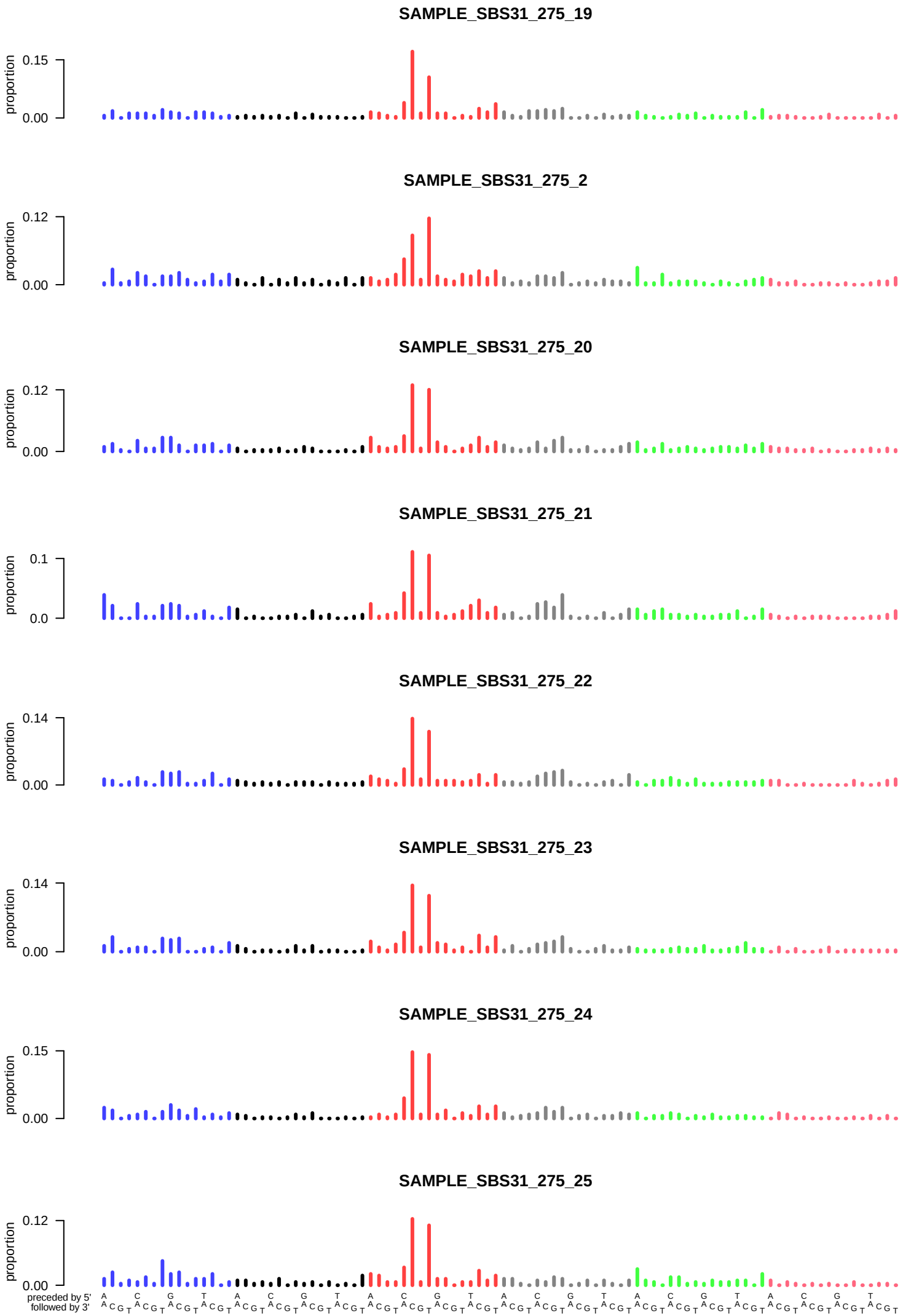
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SAMPLE_SBS31_275_23
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SAMPLE_SBS31_275_24
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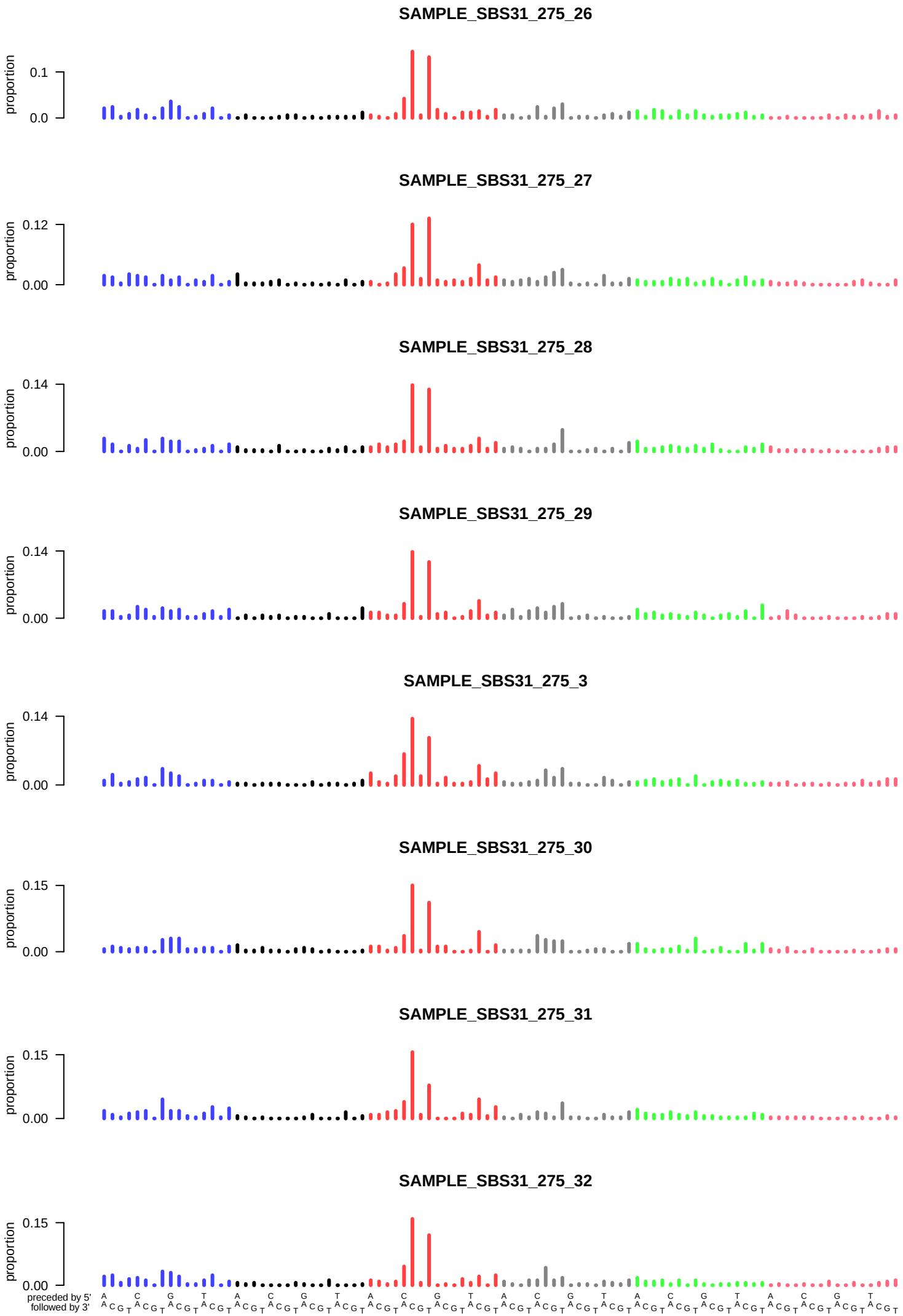
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SAMPLE_SBS31_275_31
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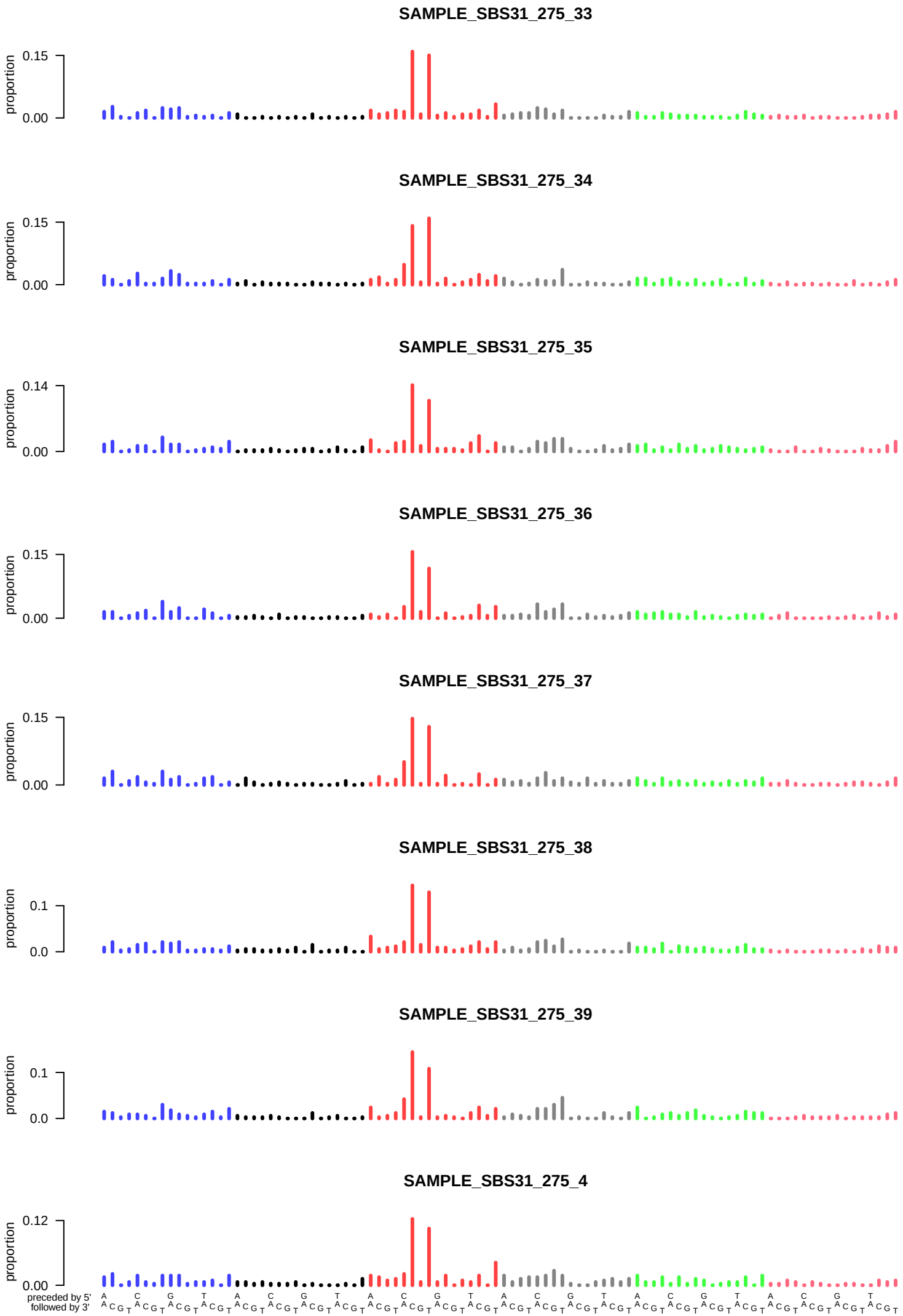
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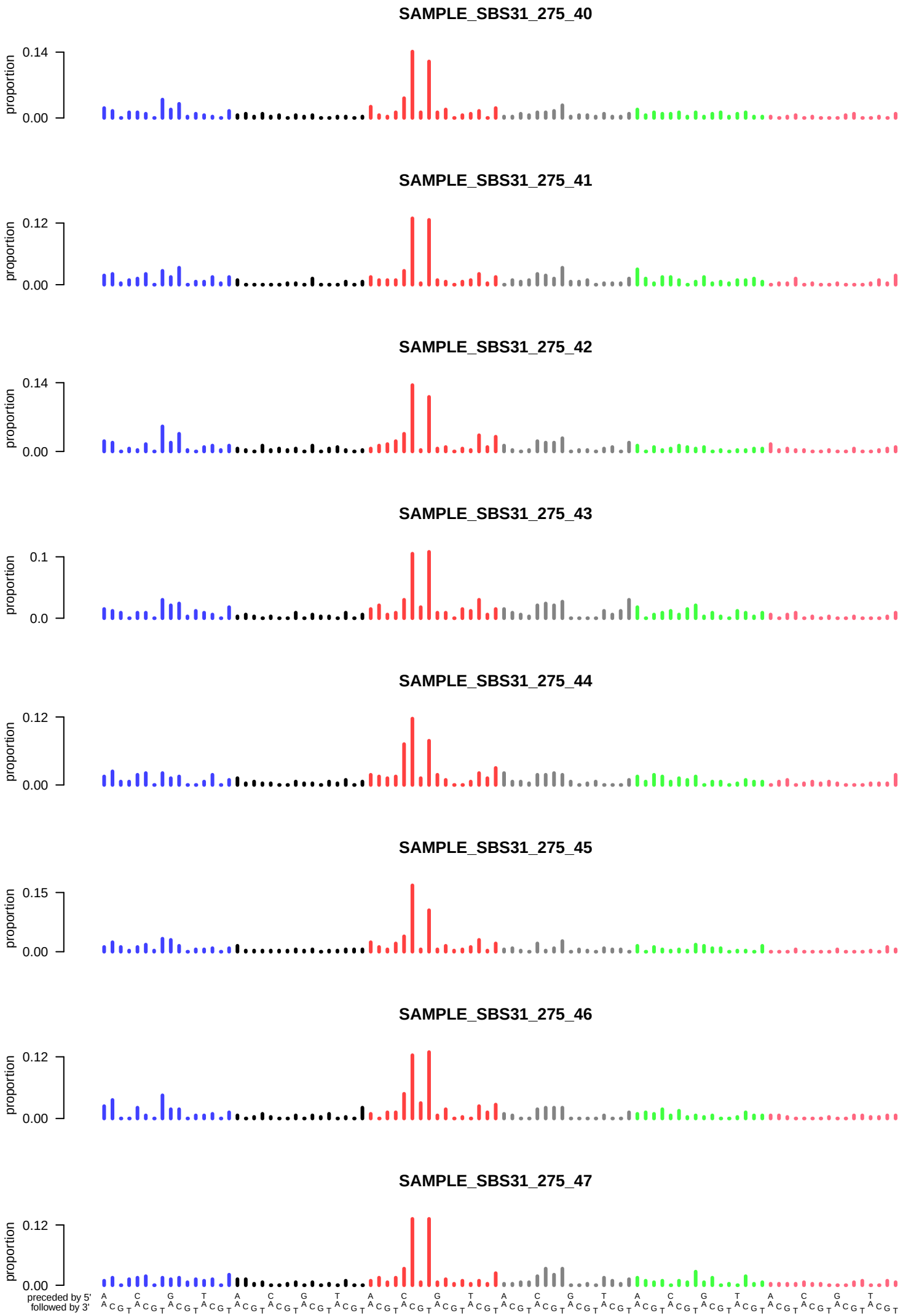
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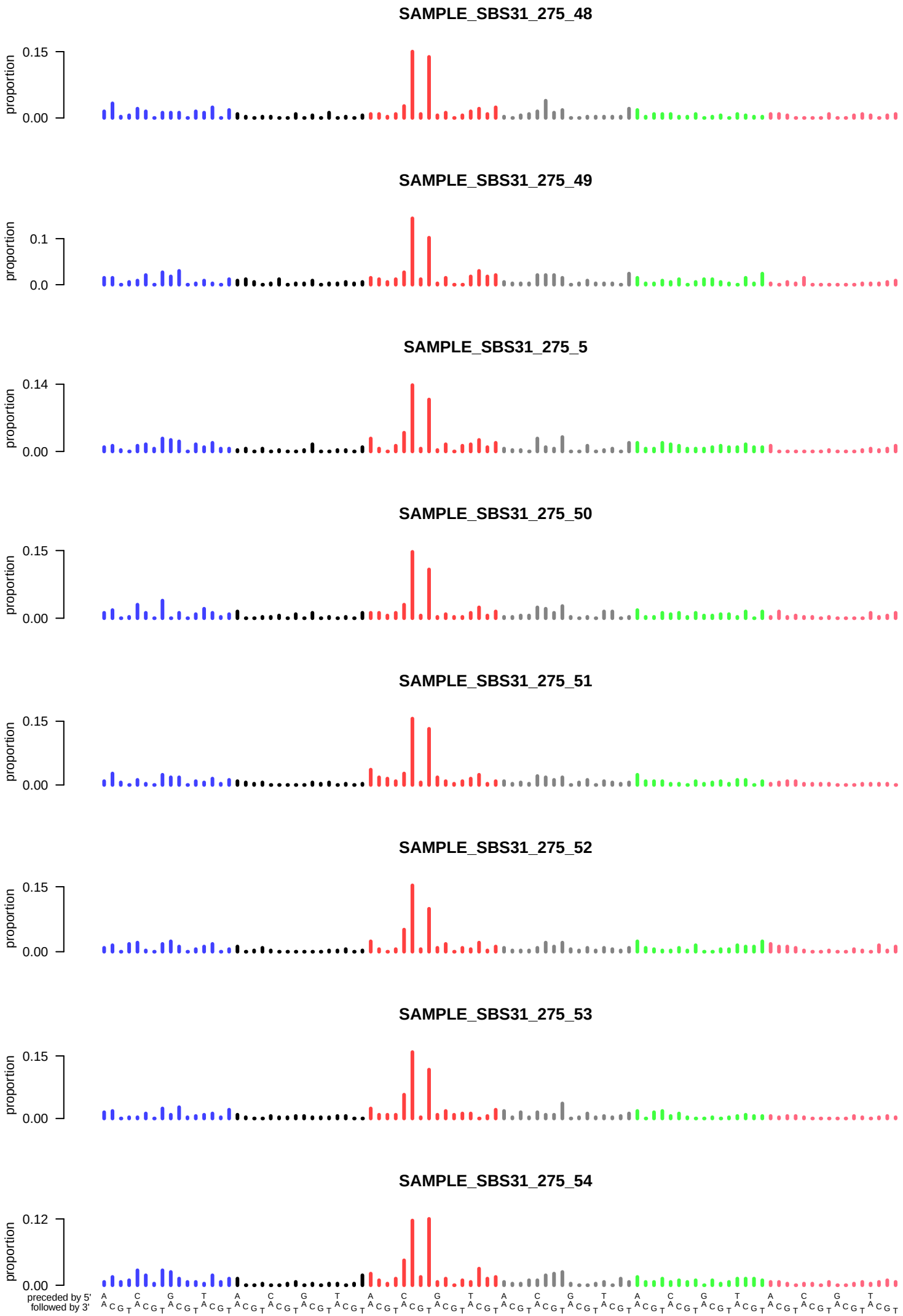
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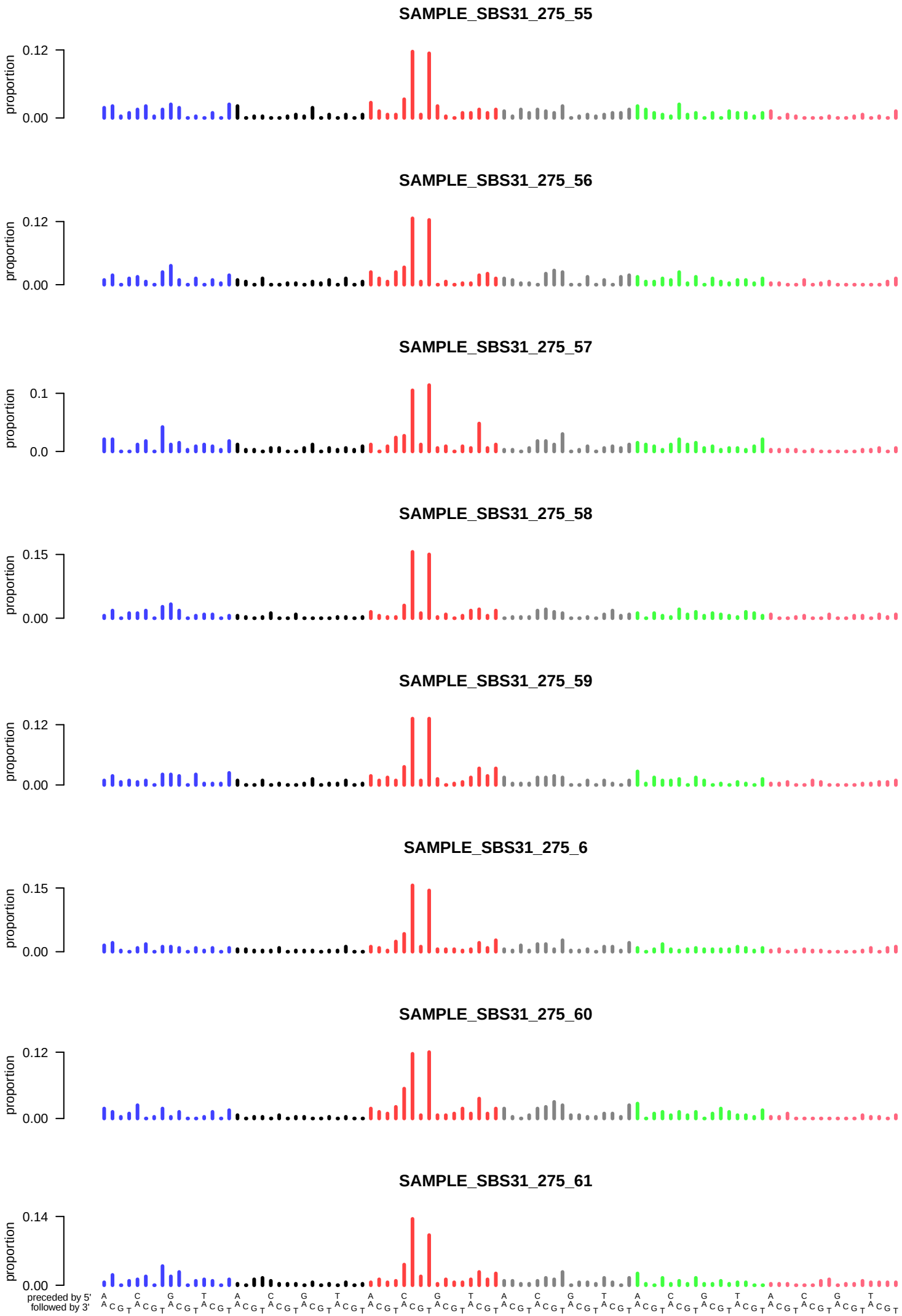
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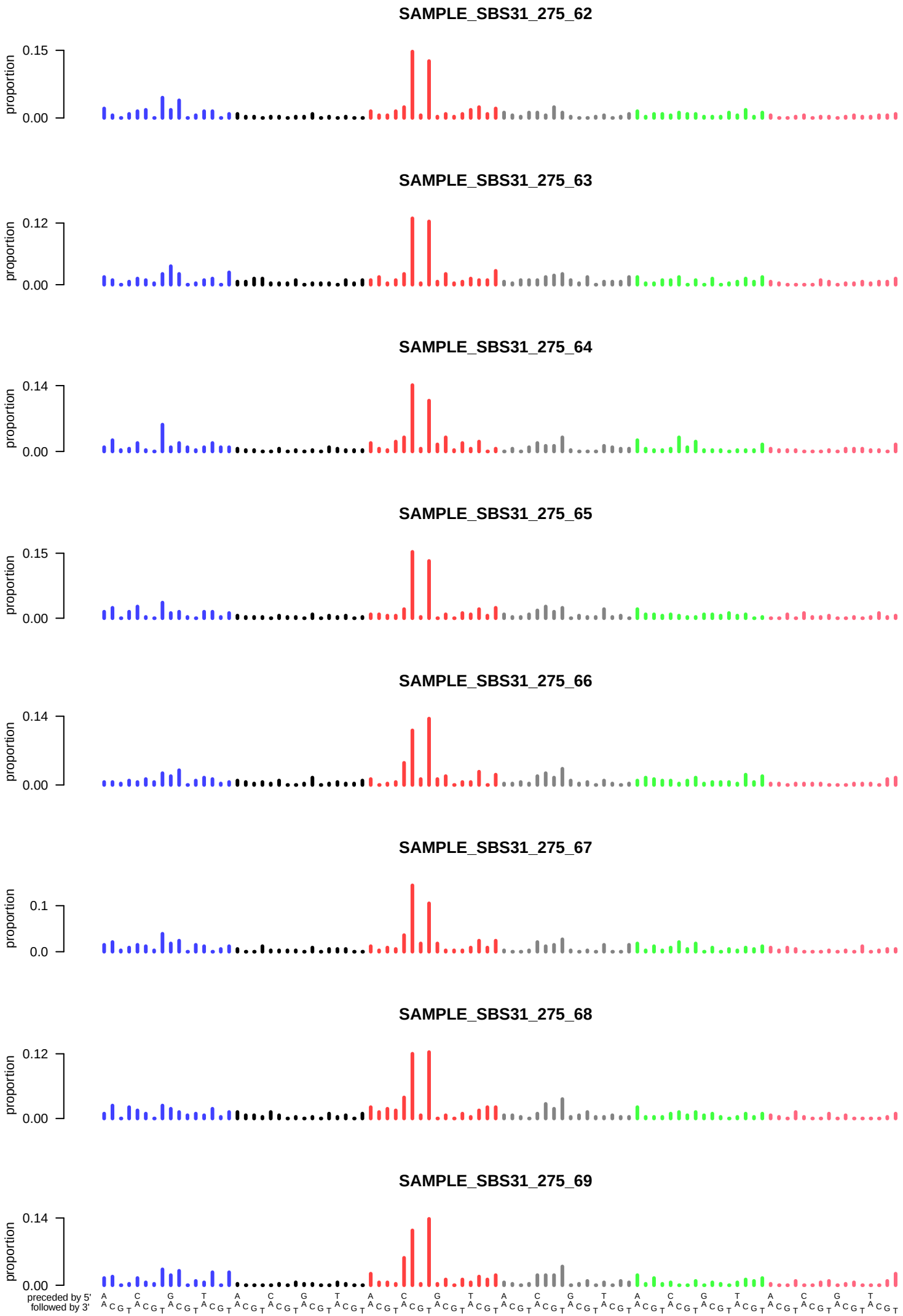
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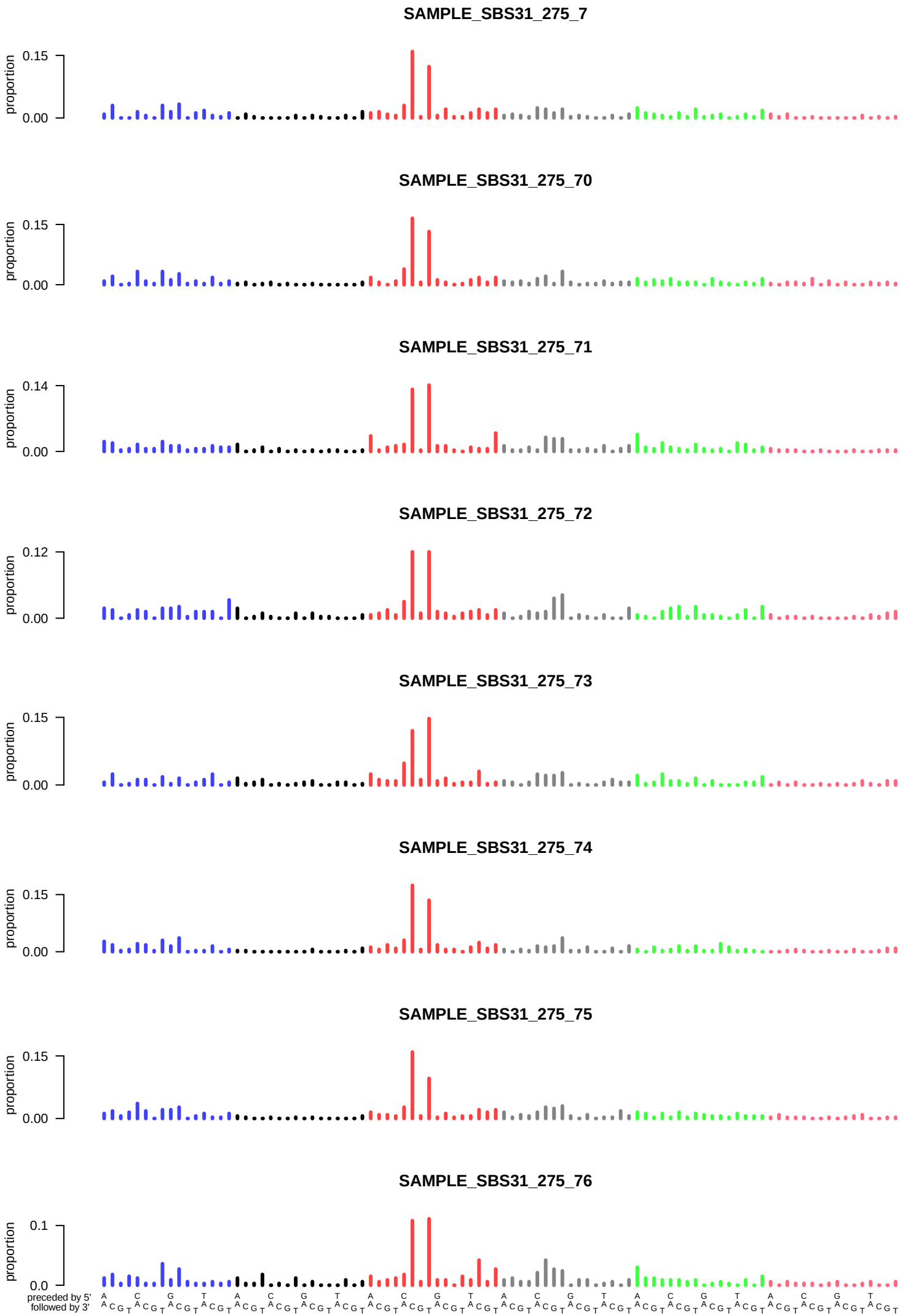
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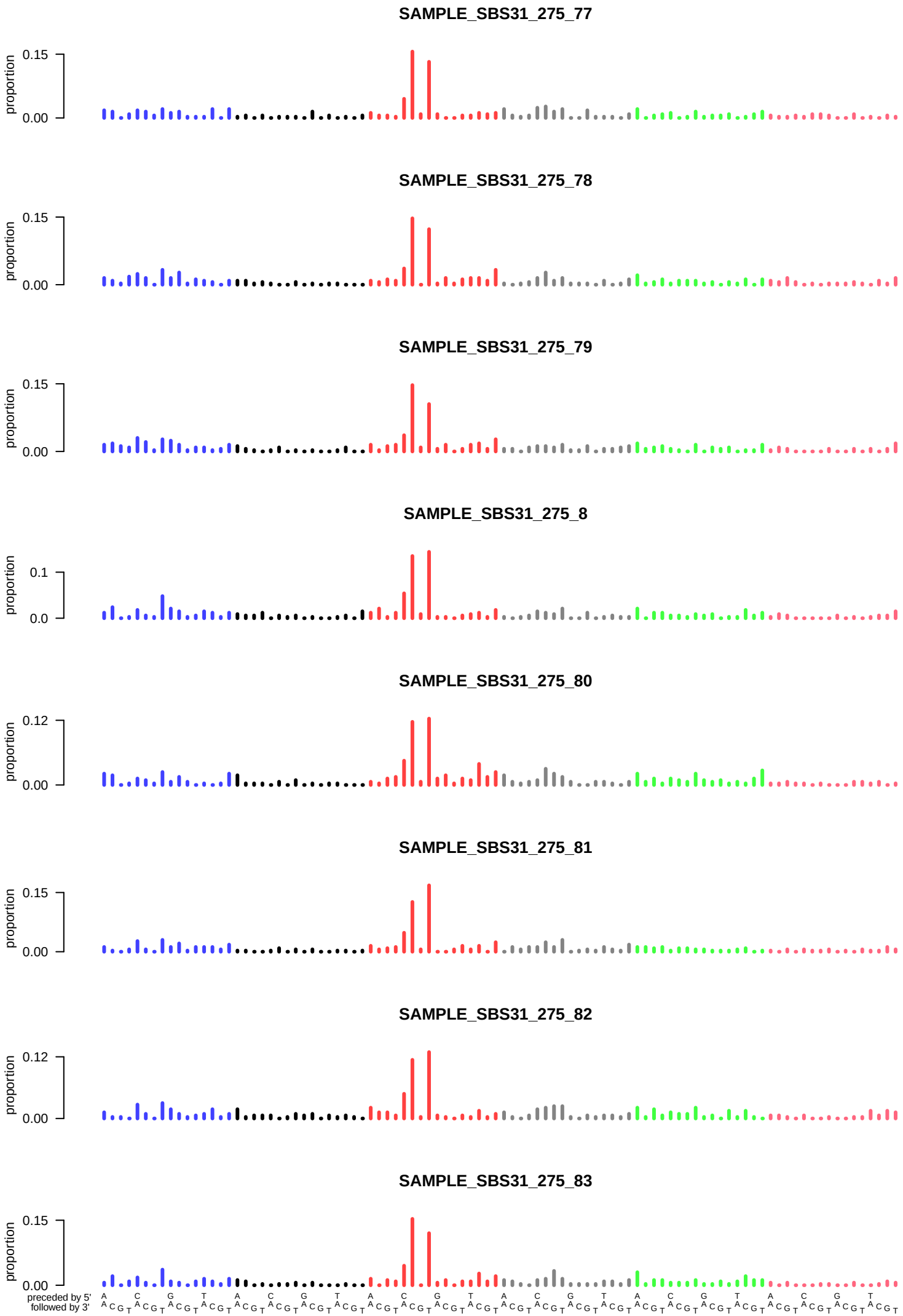
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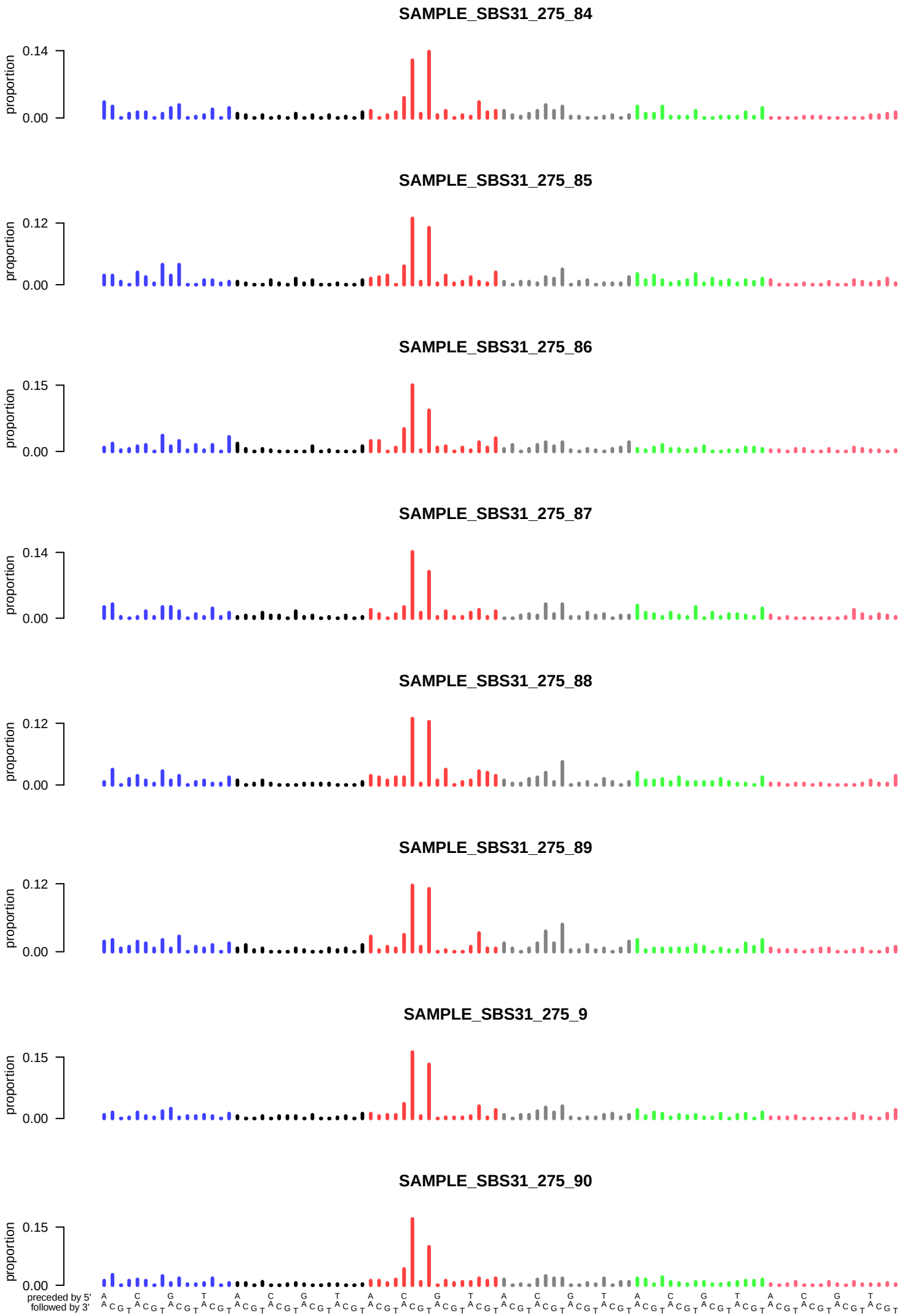
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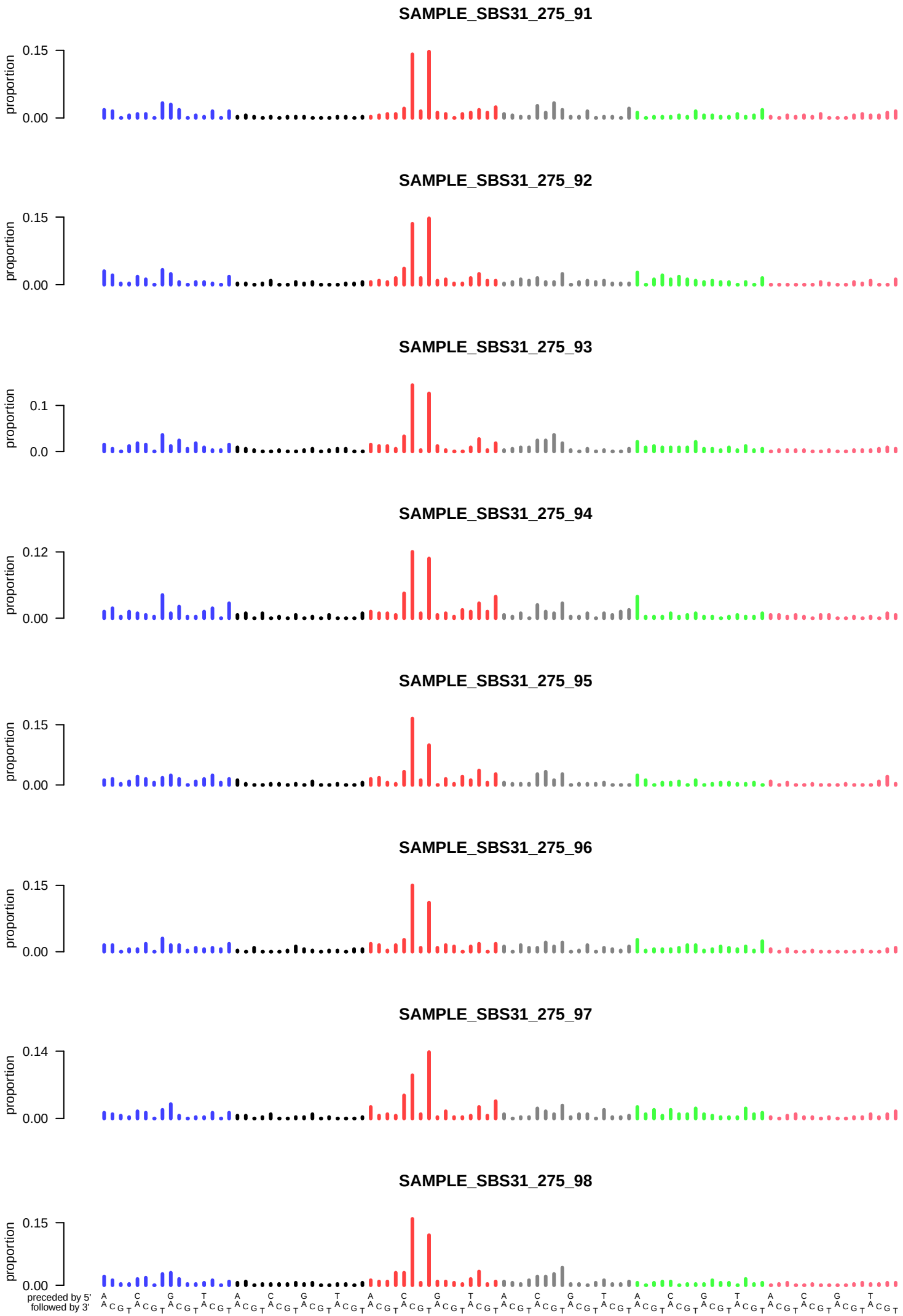
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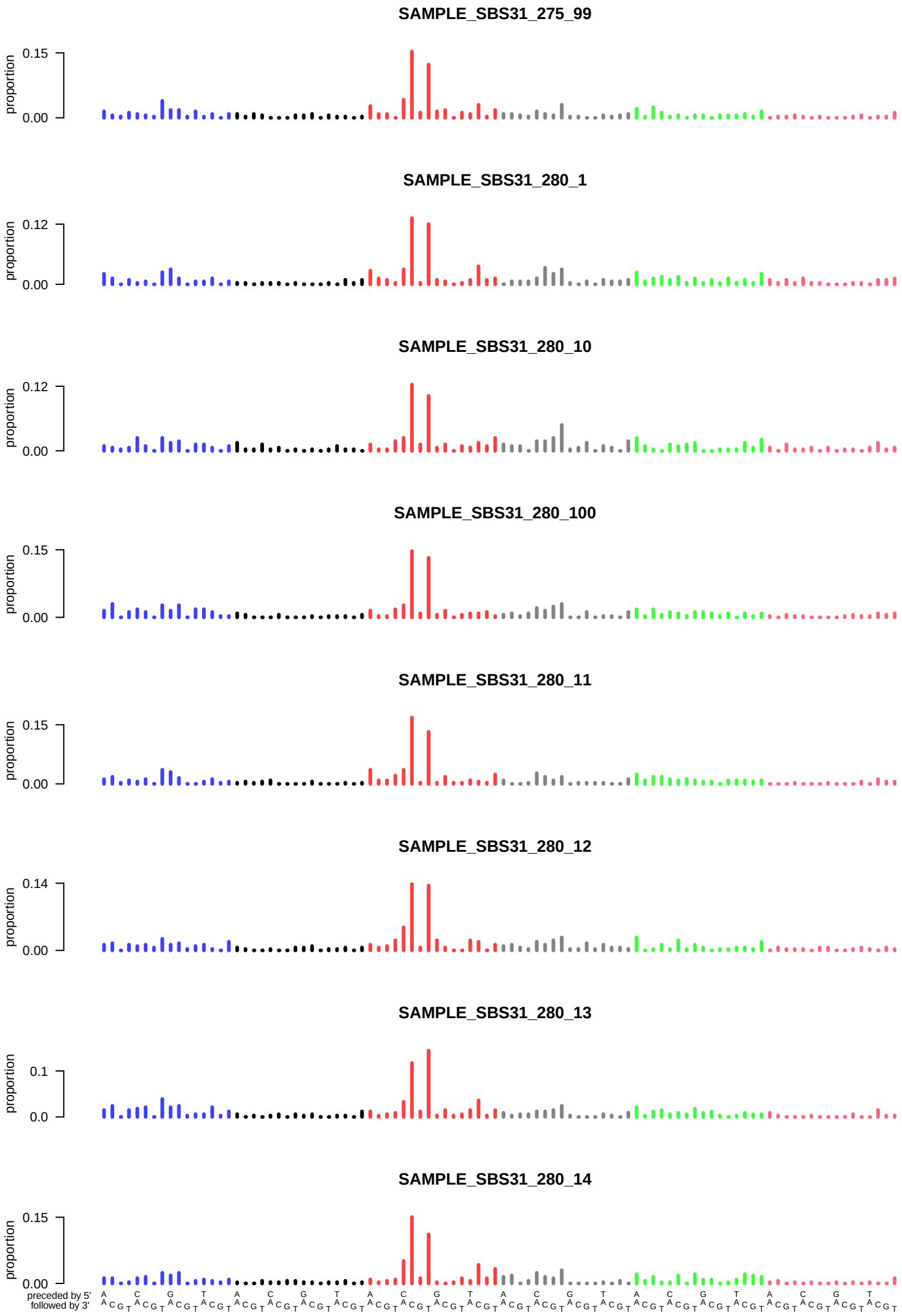
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SAMPLE_SBS31_280_13
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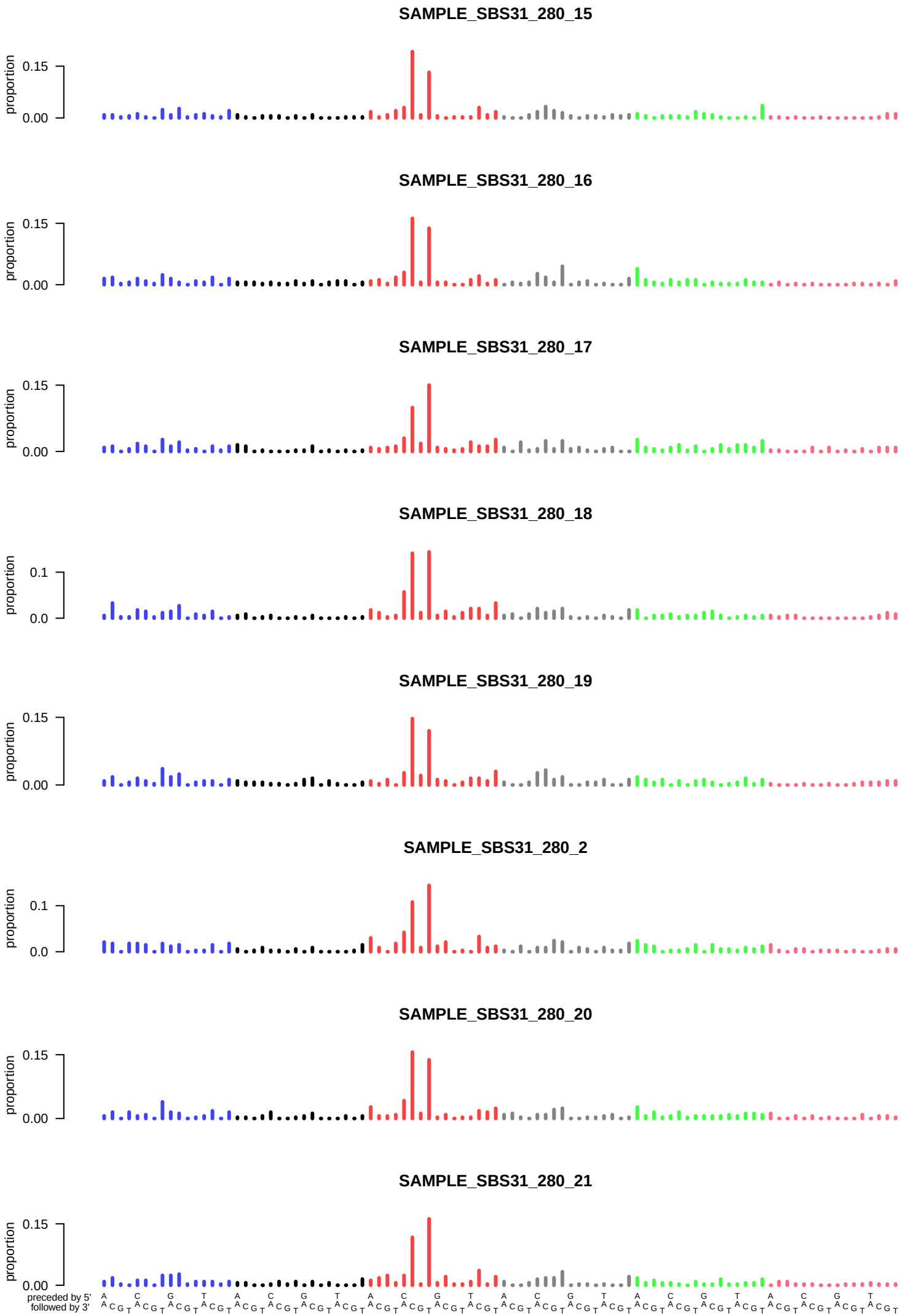
followed by 3'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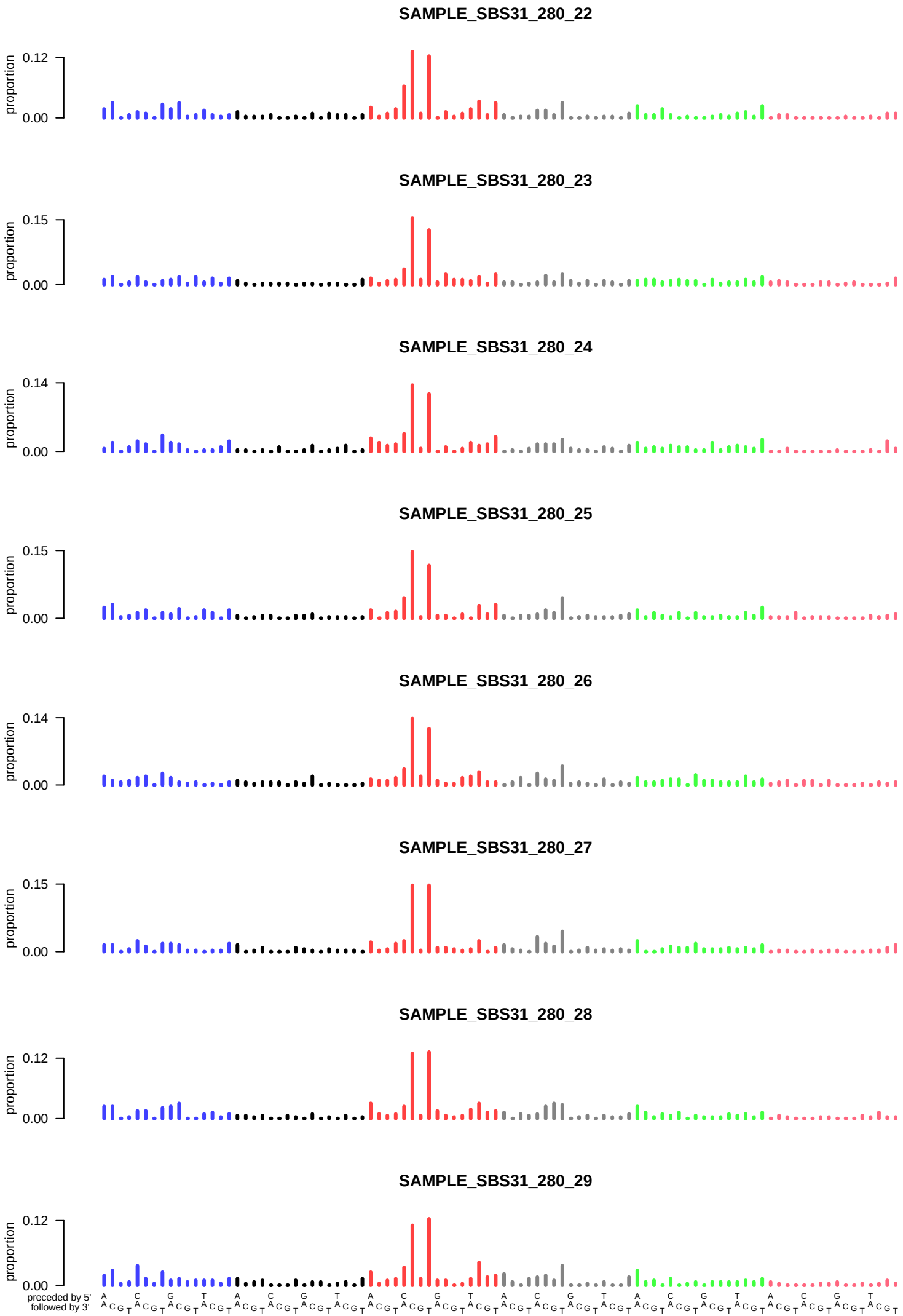
followed by 3'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SAMPLE_SBS31_280_28
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SAMPLE_SBS31_280_29
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0.00
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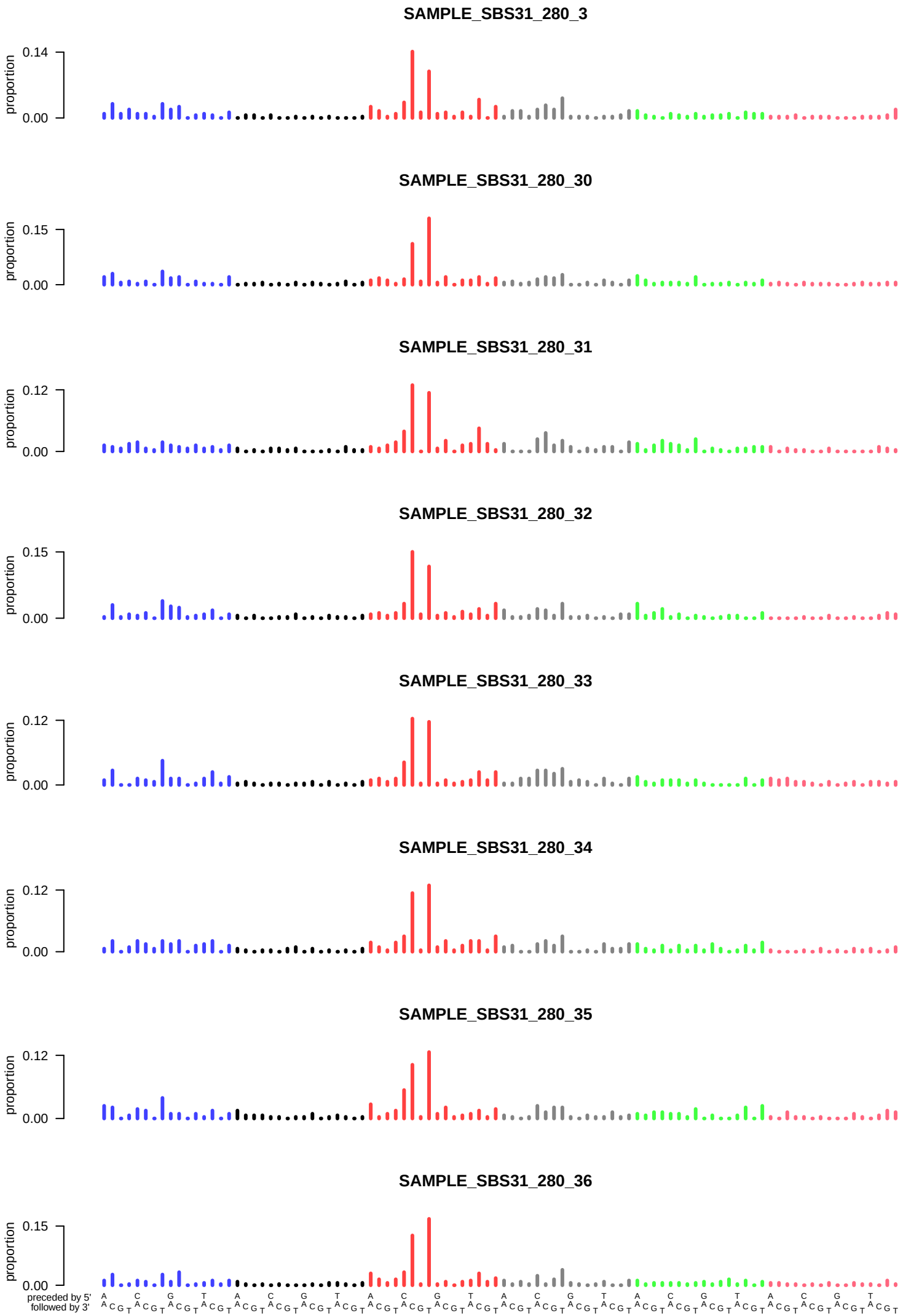
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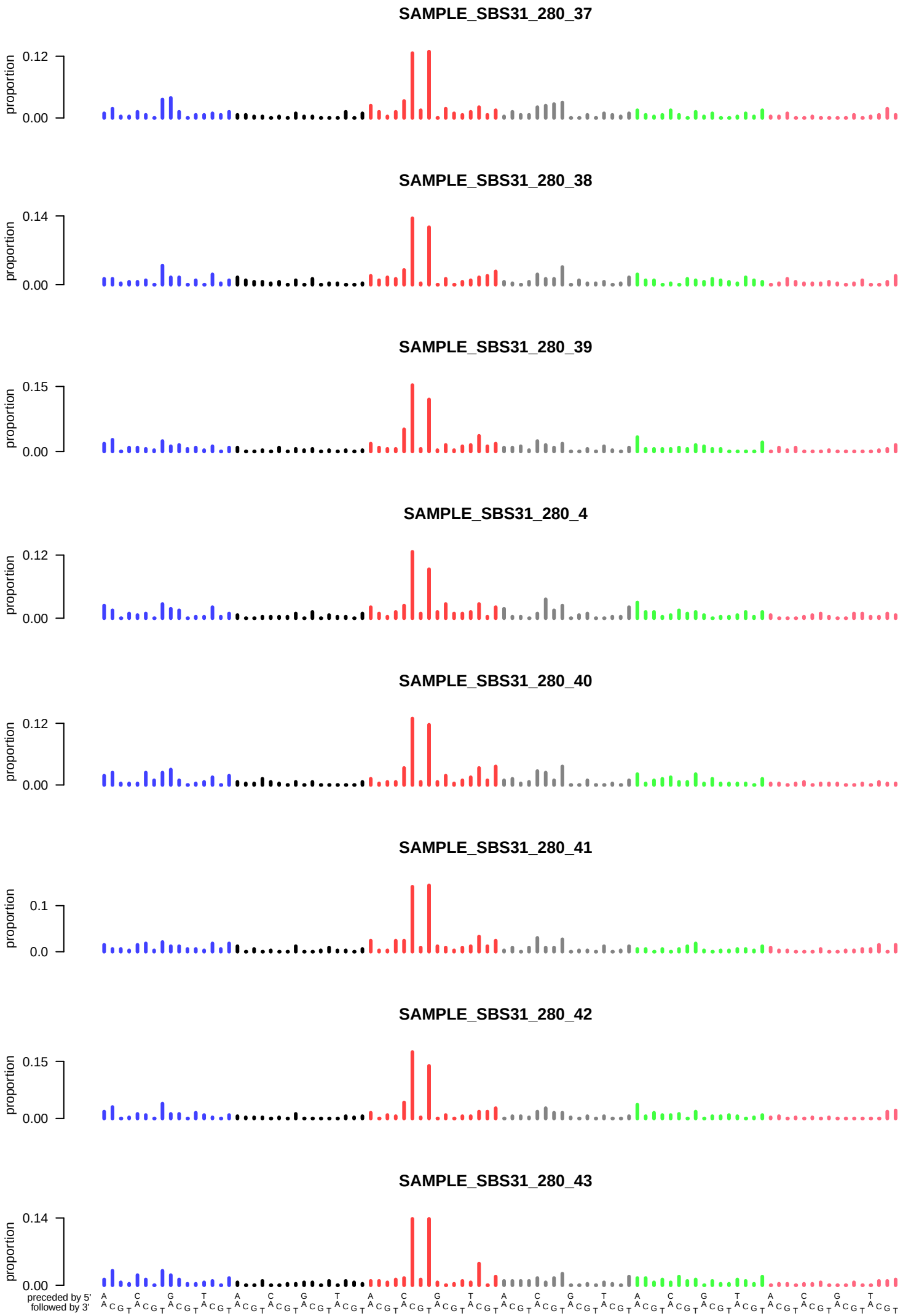
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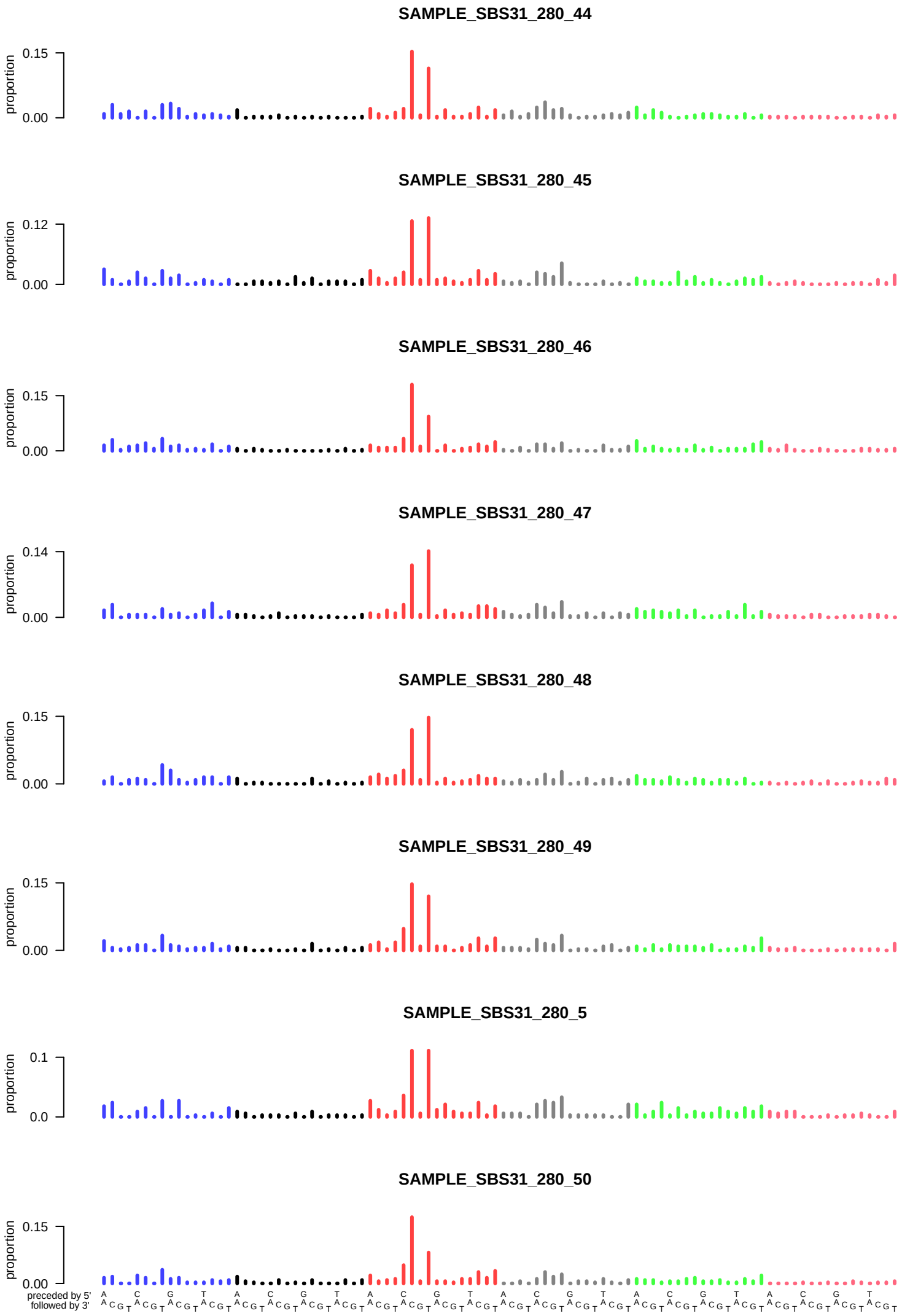
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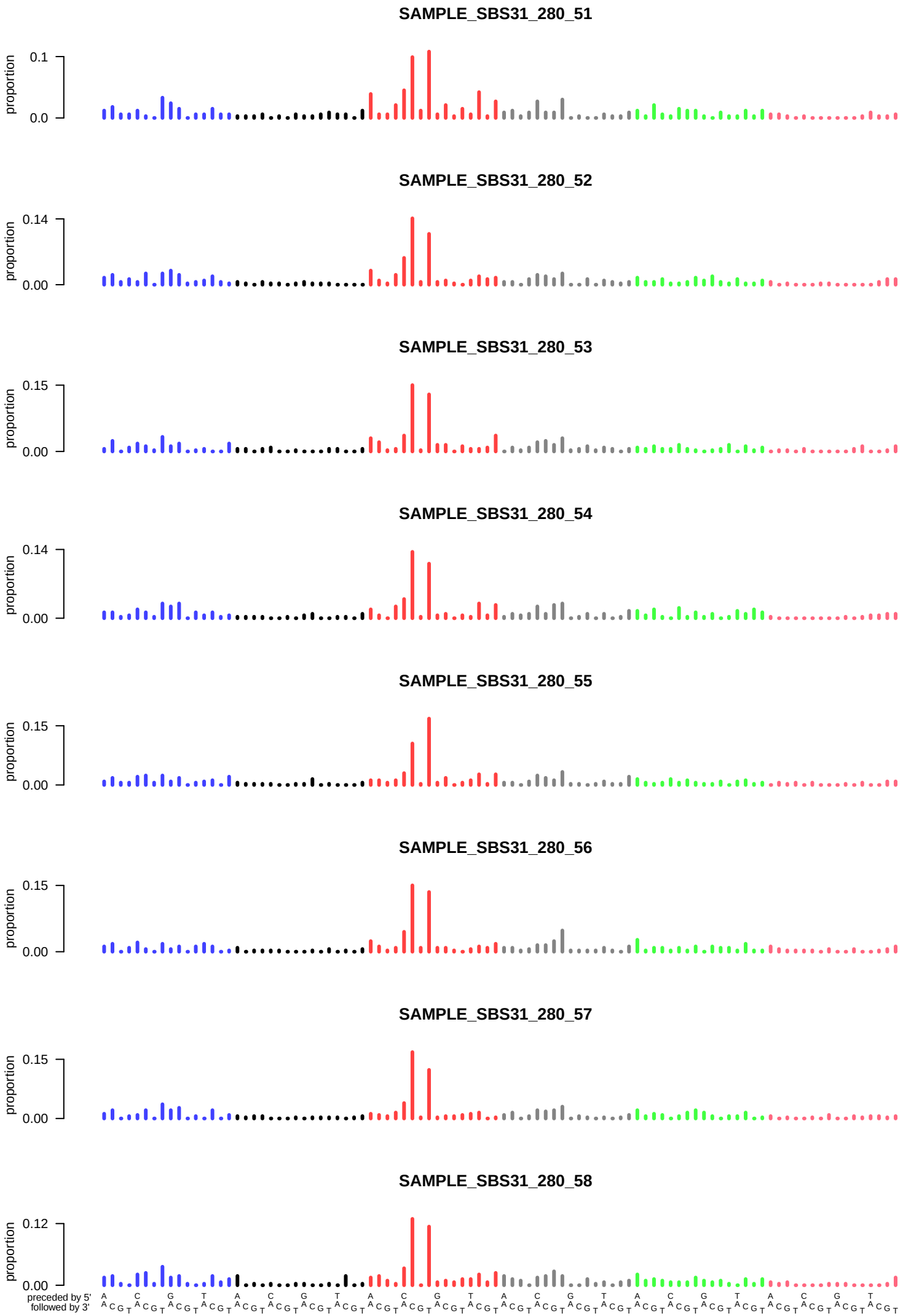
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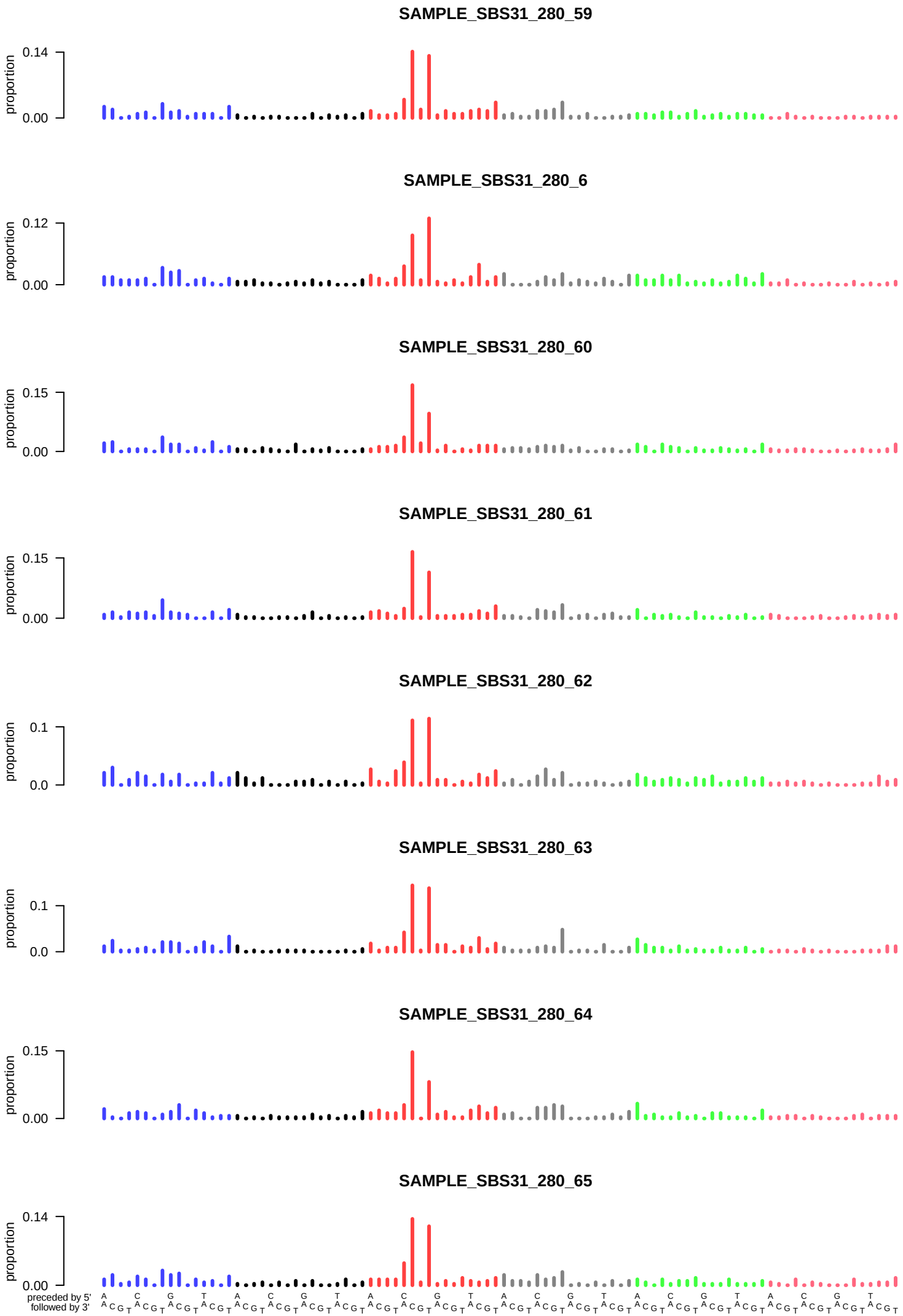
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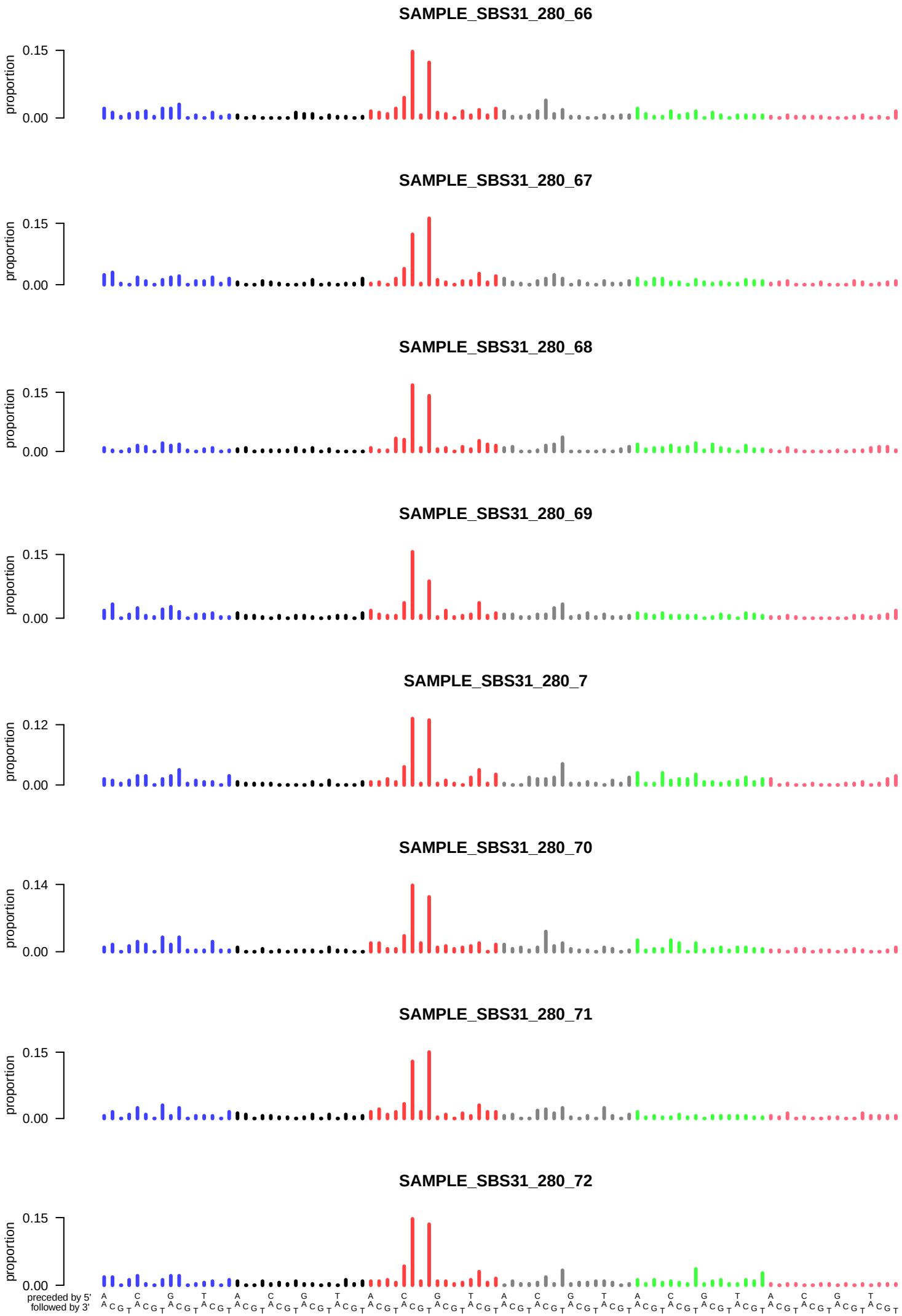
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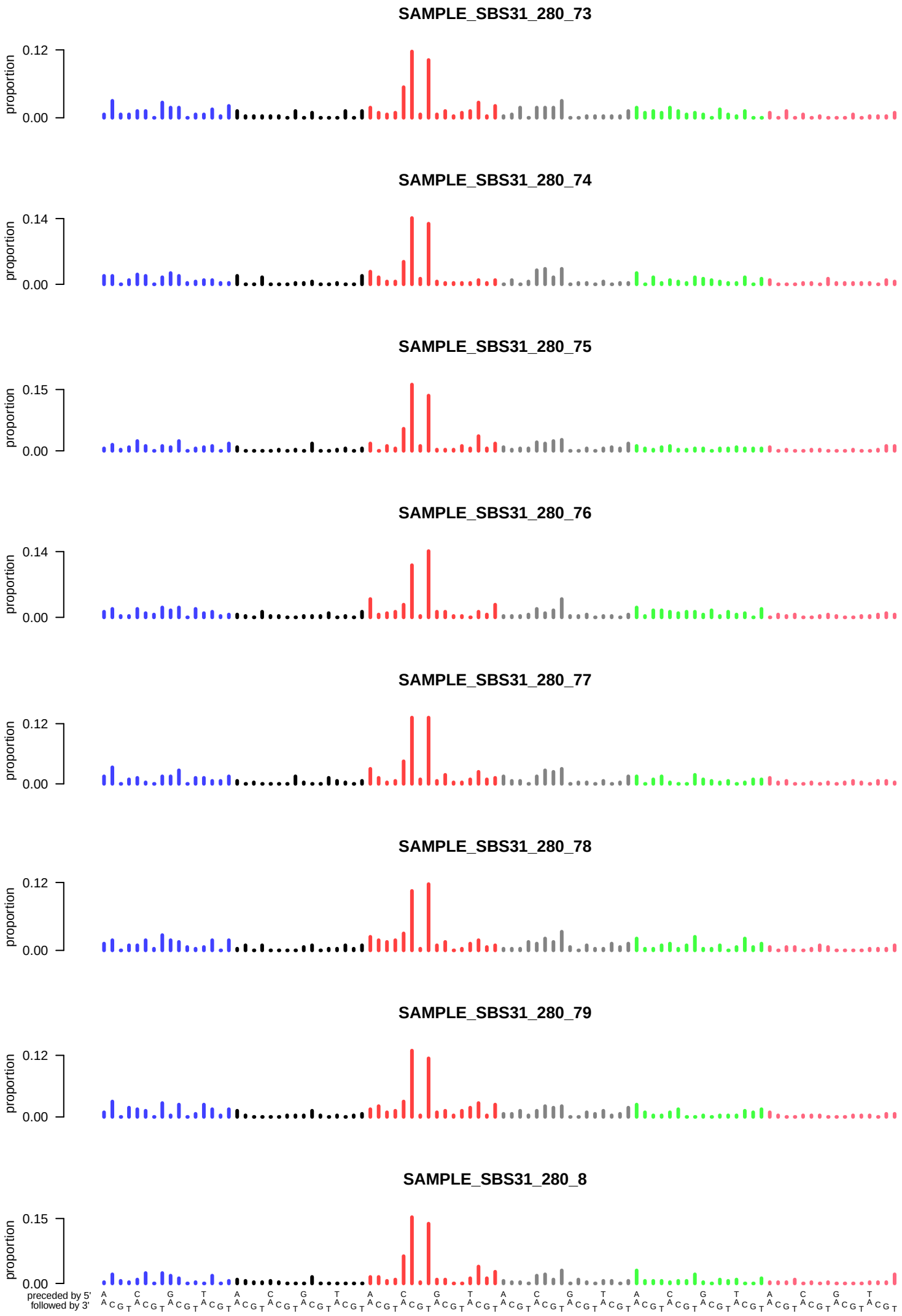
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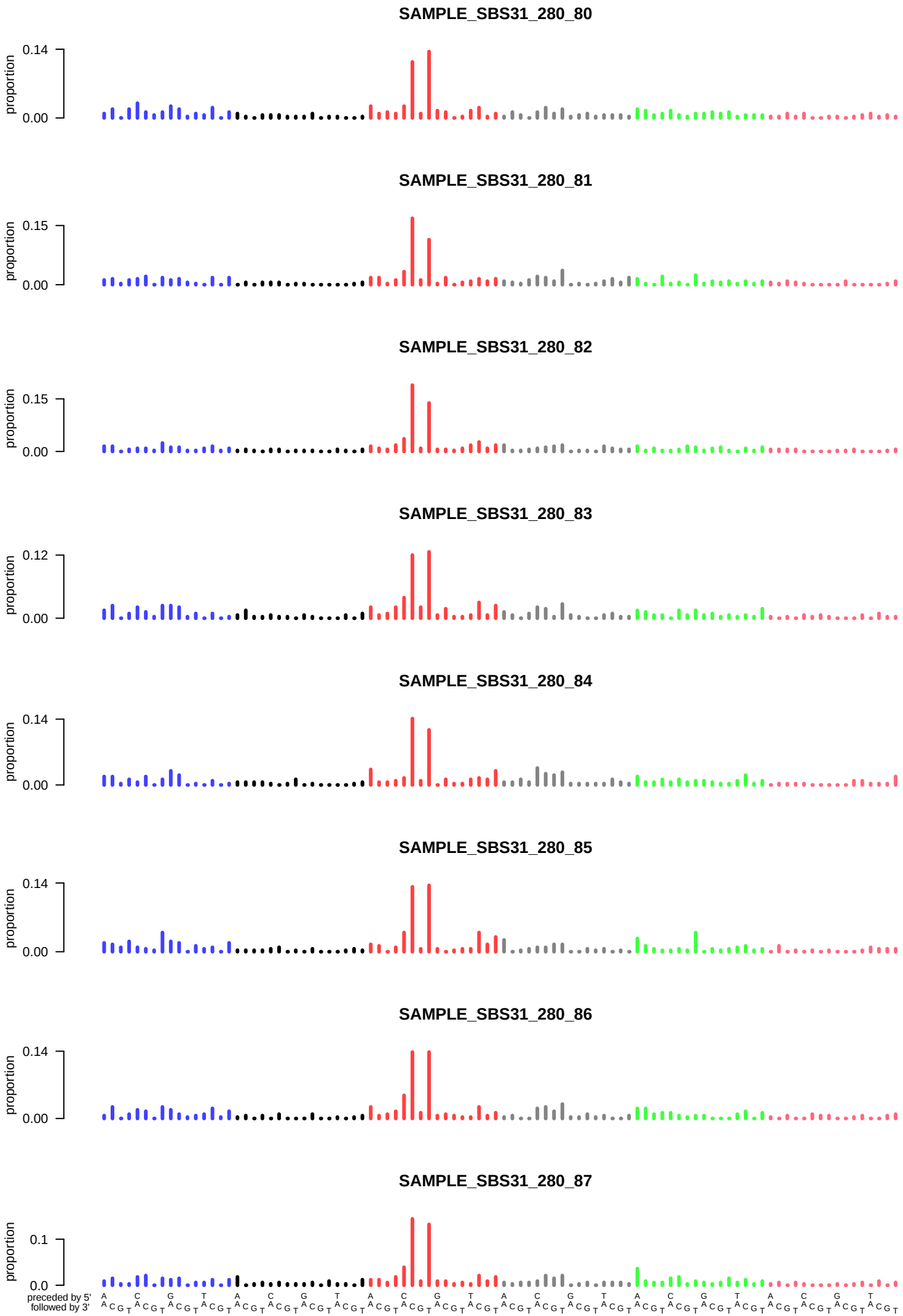
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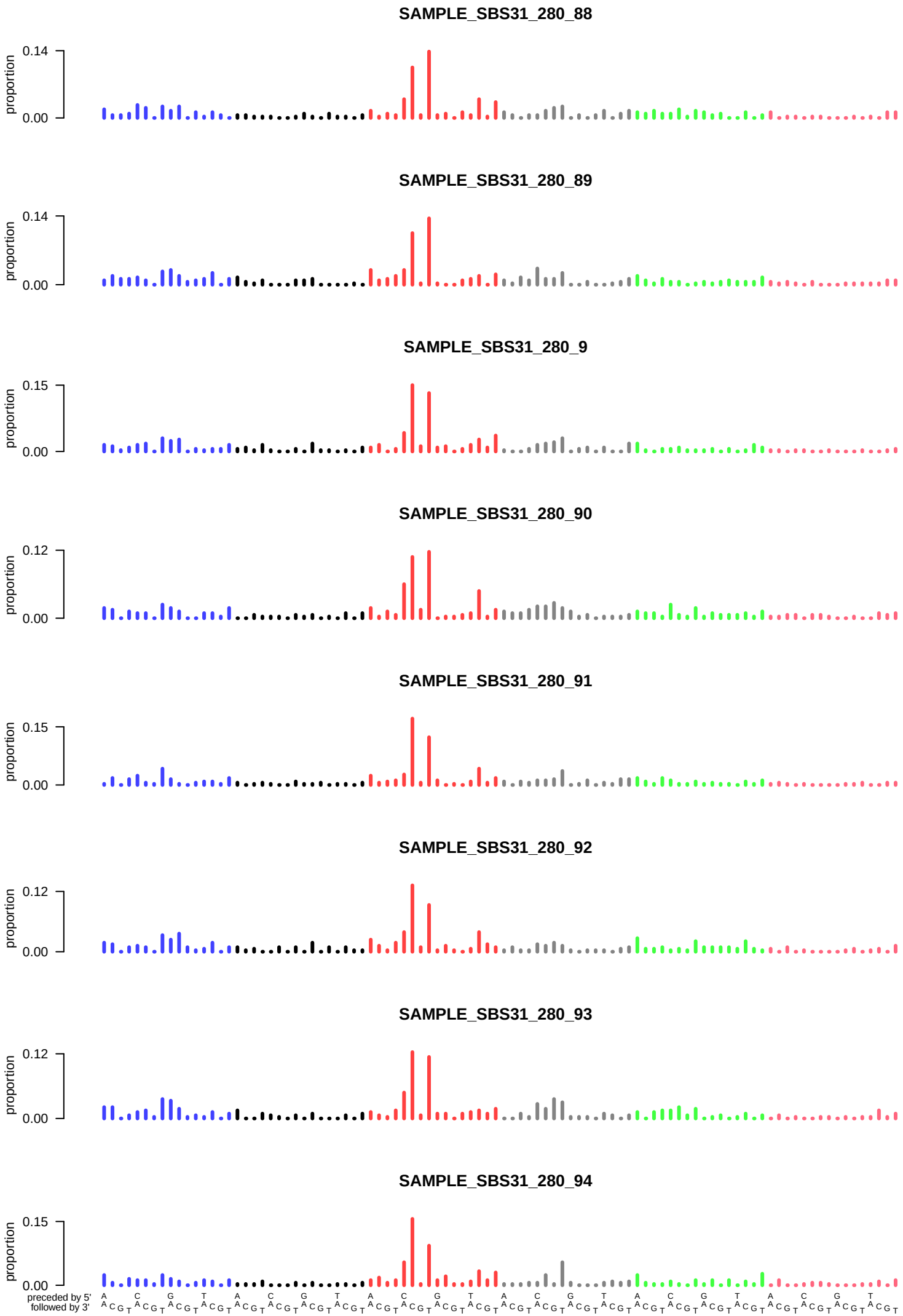
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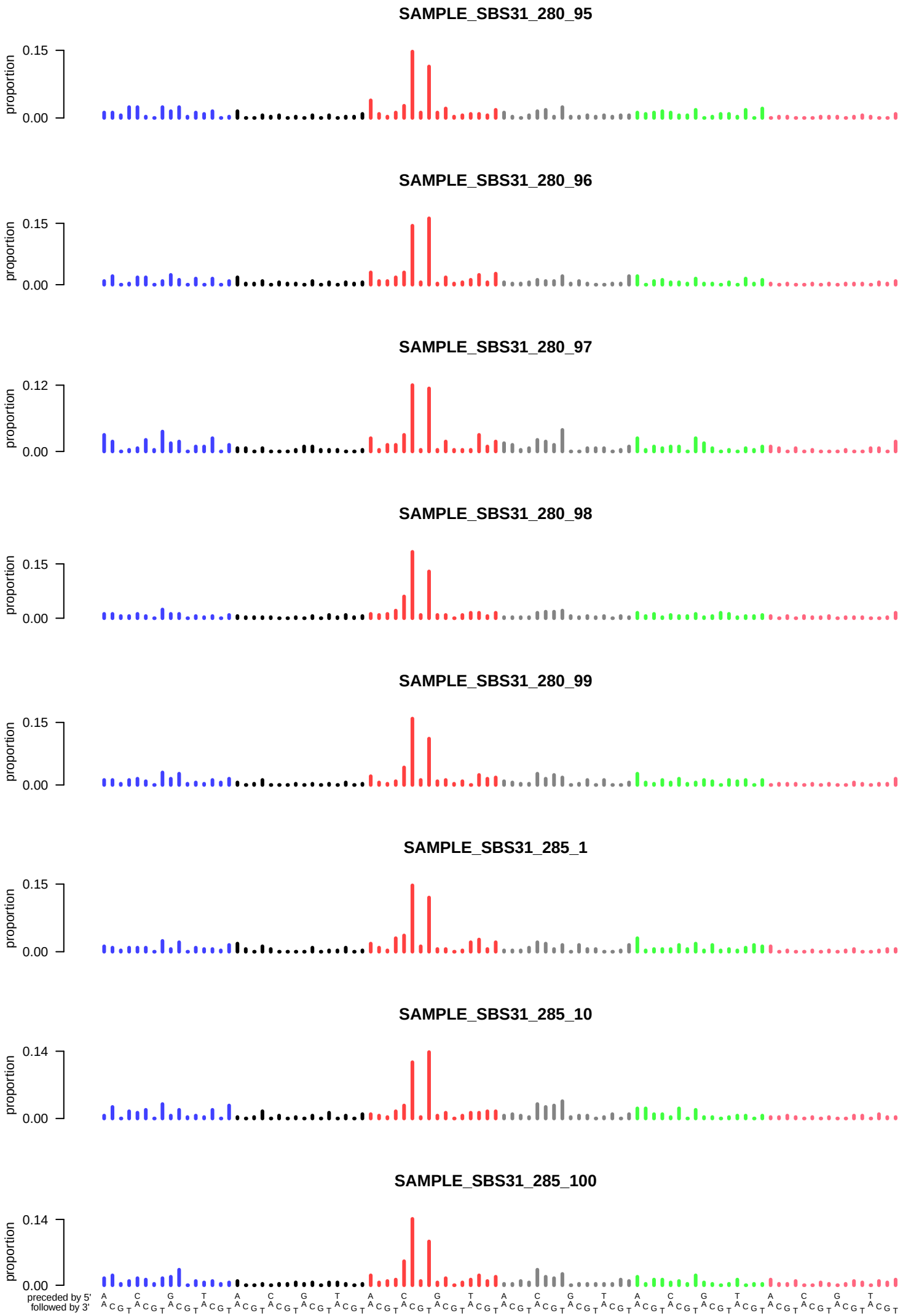
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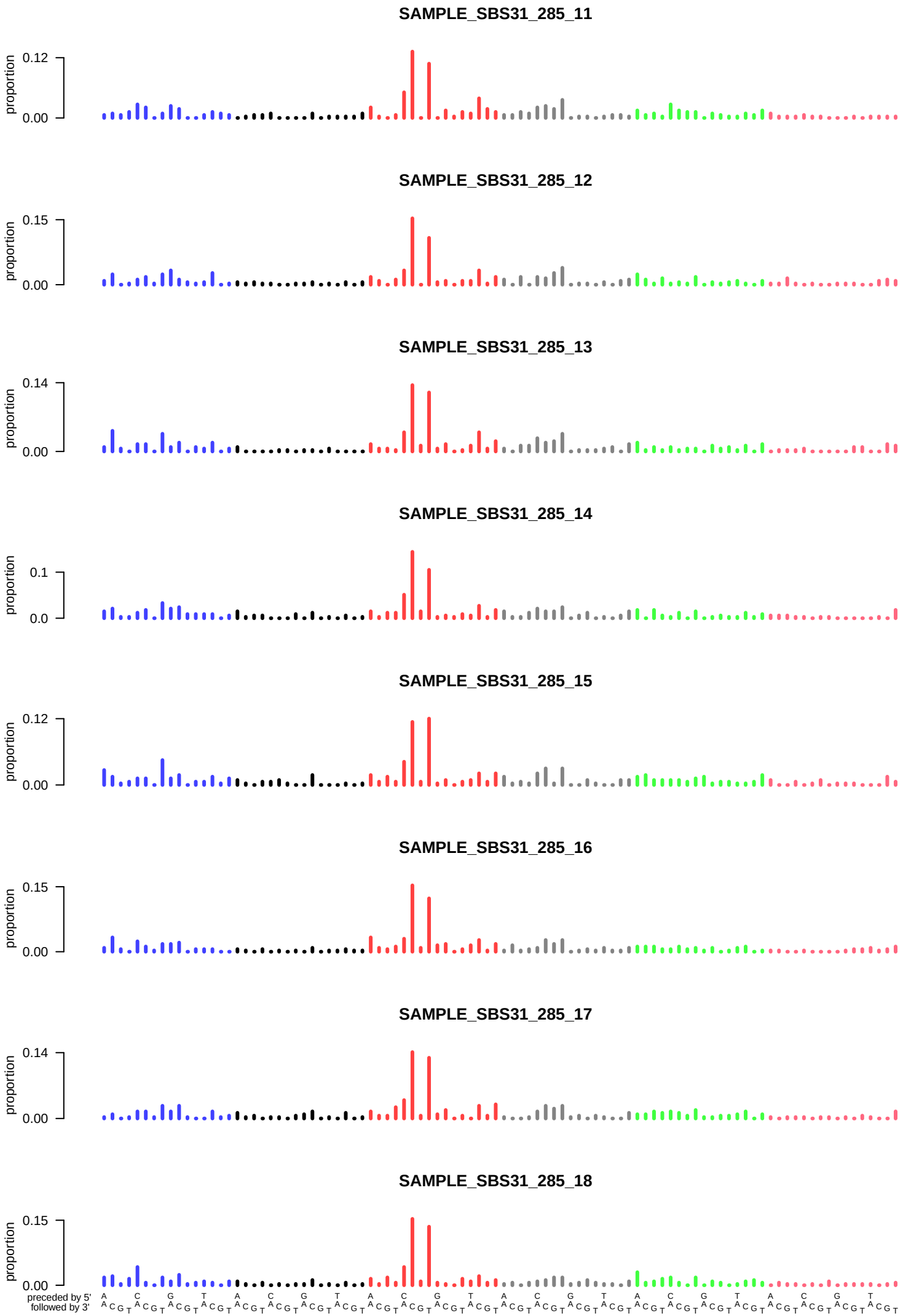
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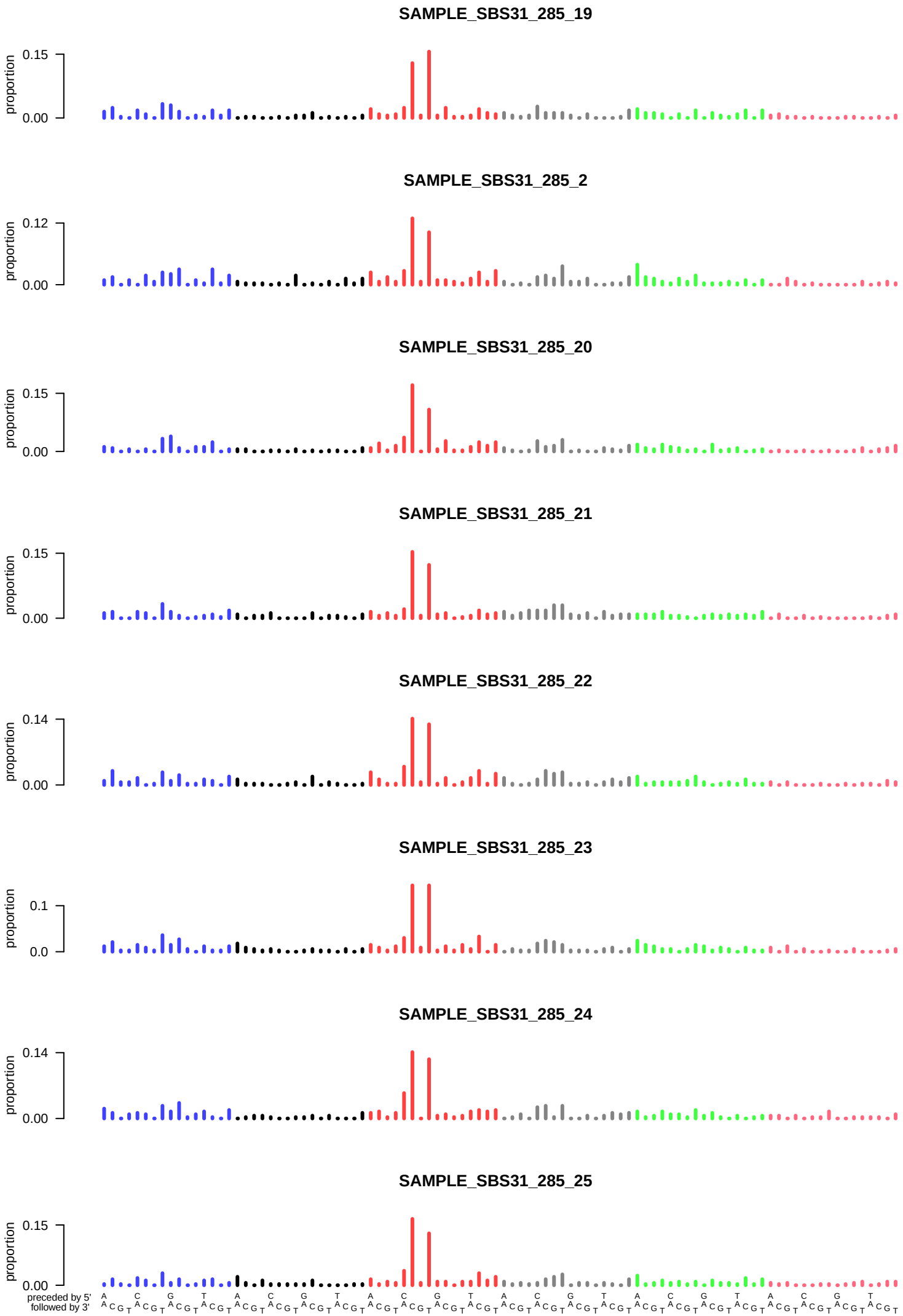
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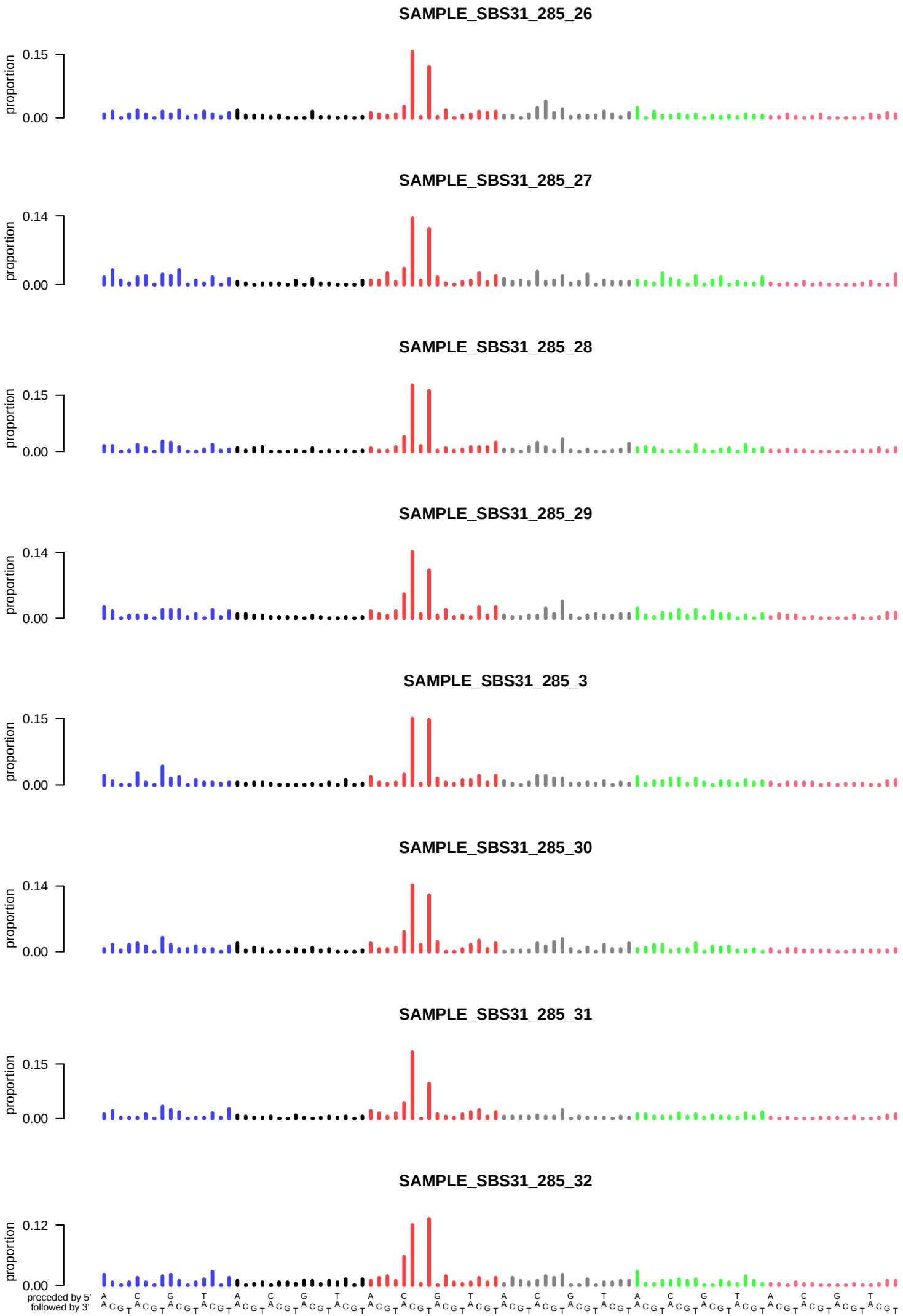
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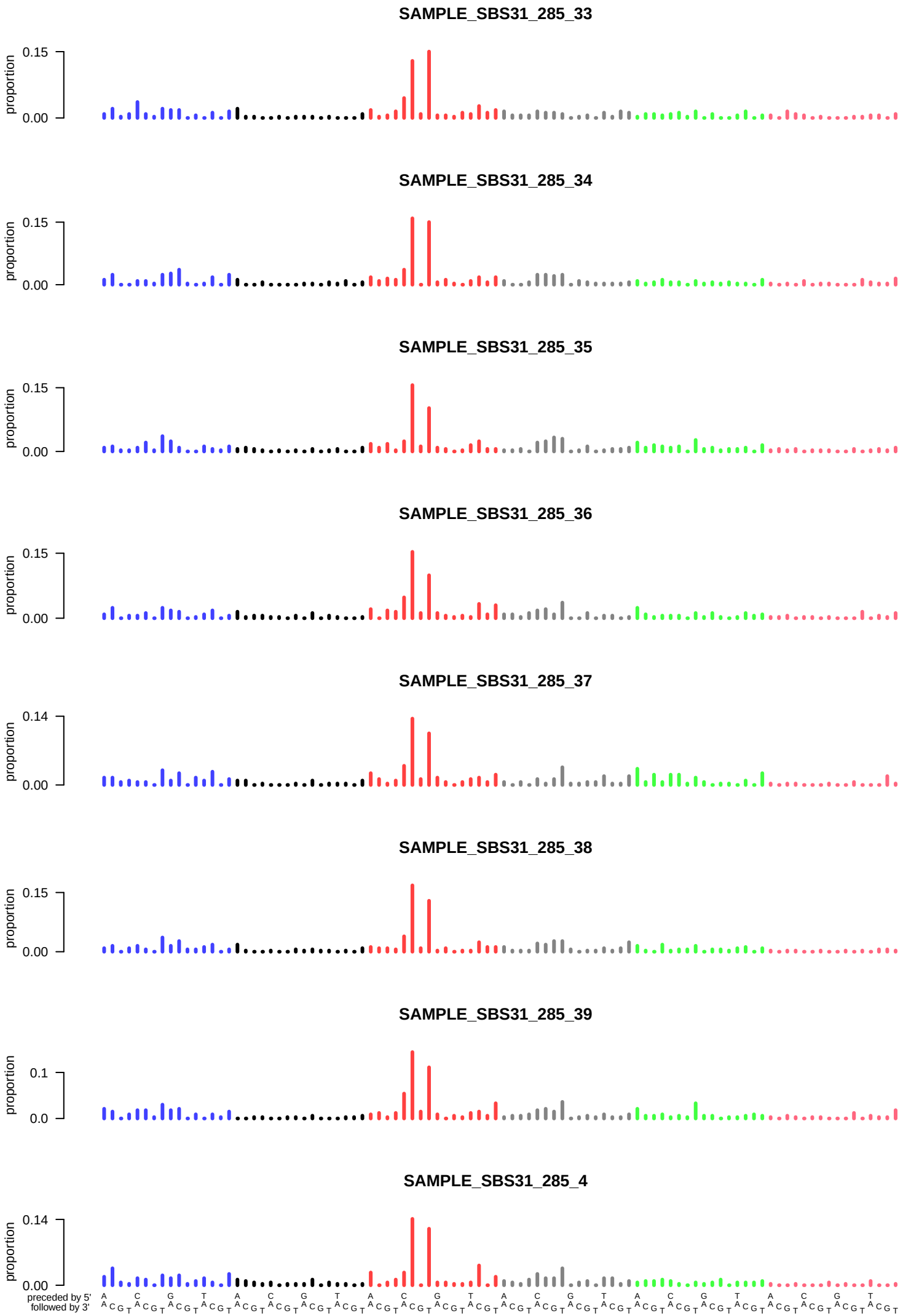
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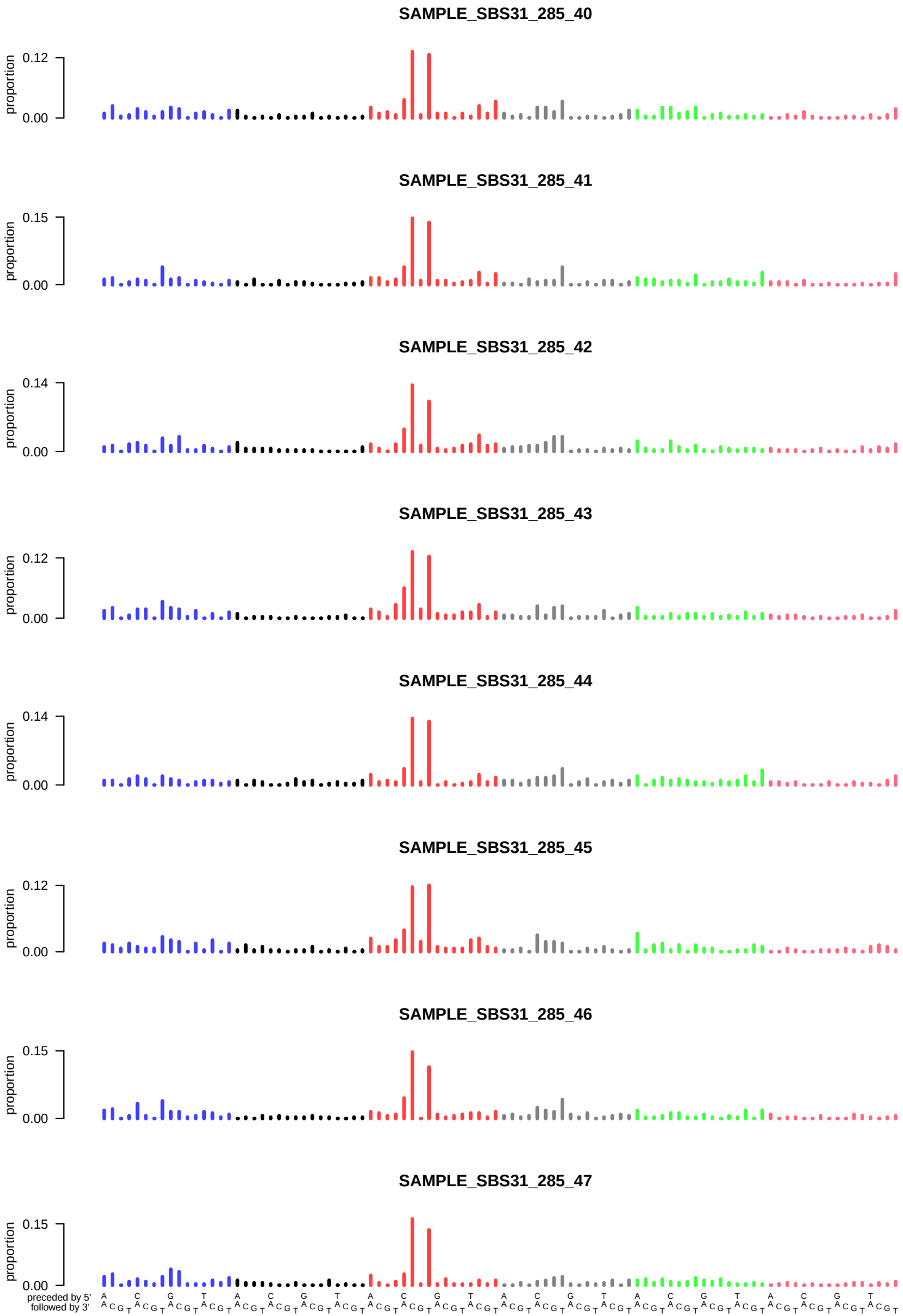
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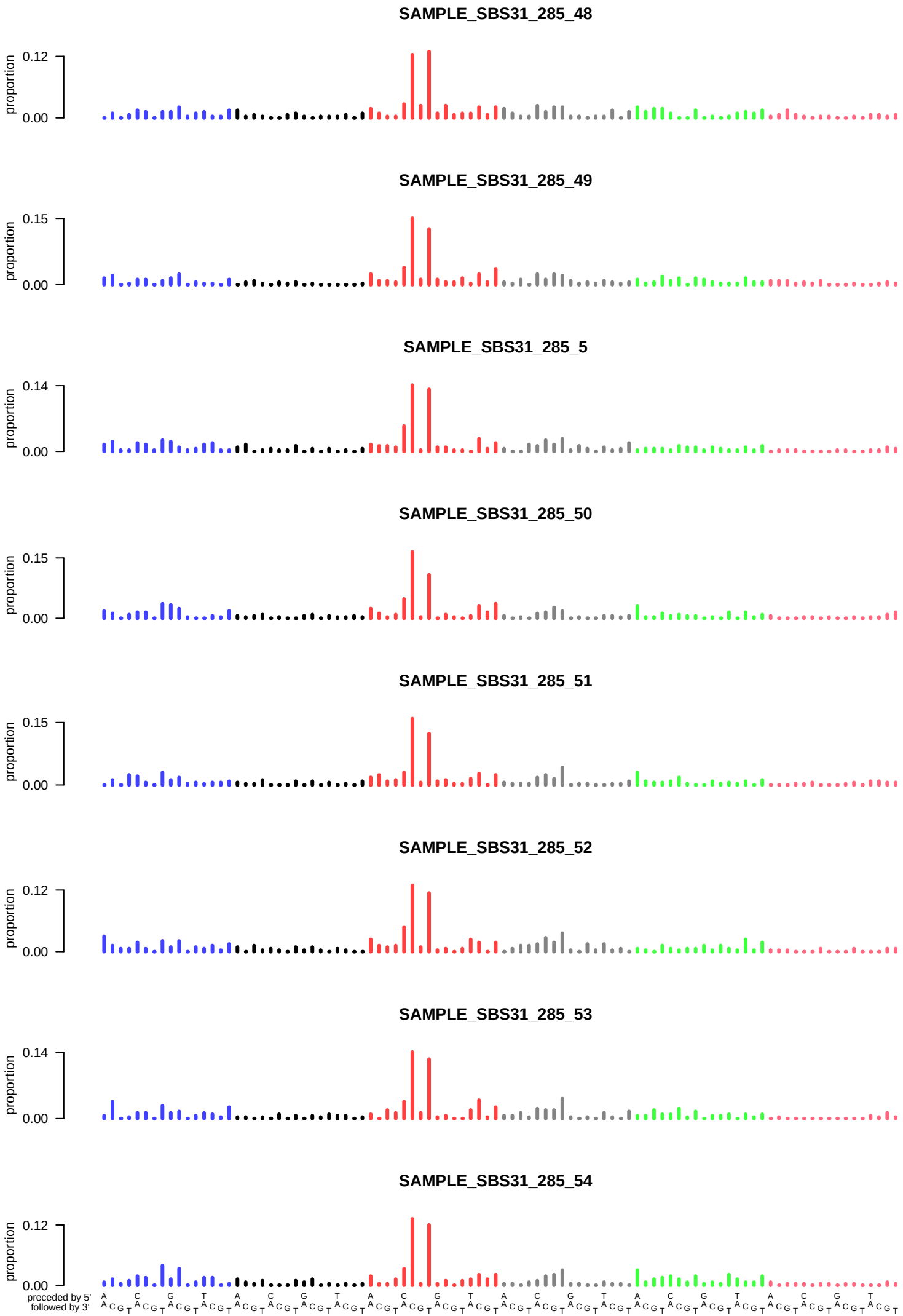
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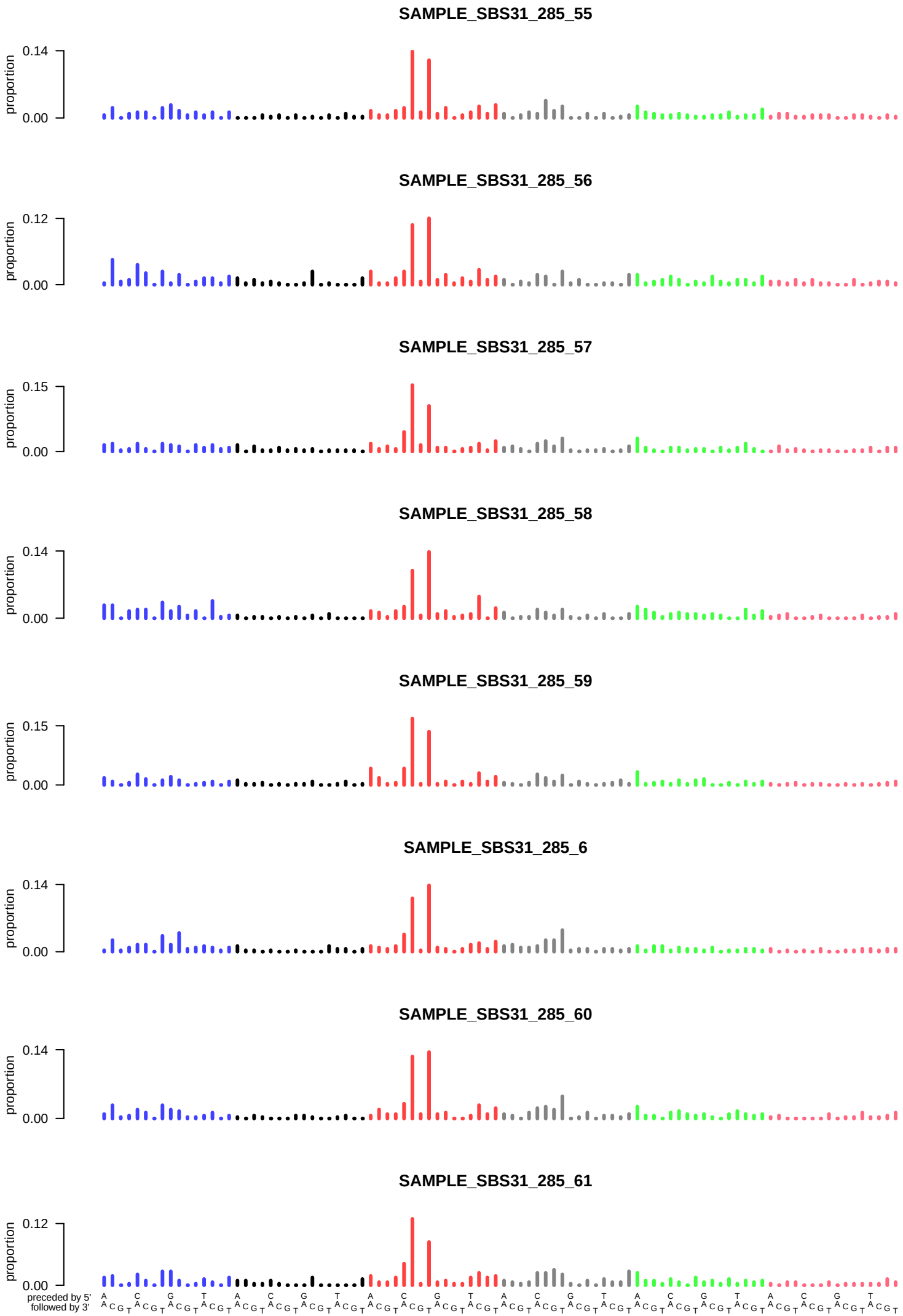
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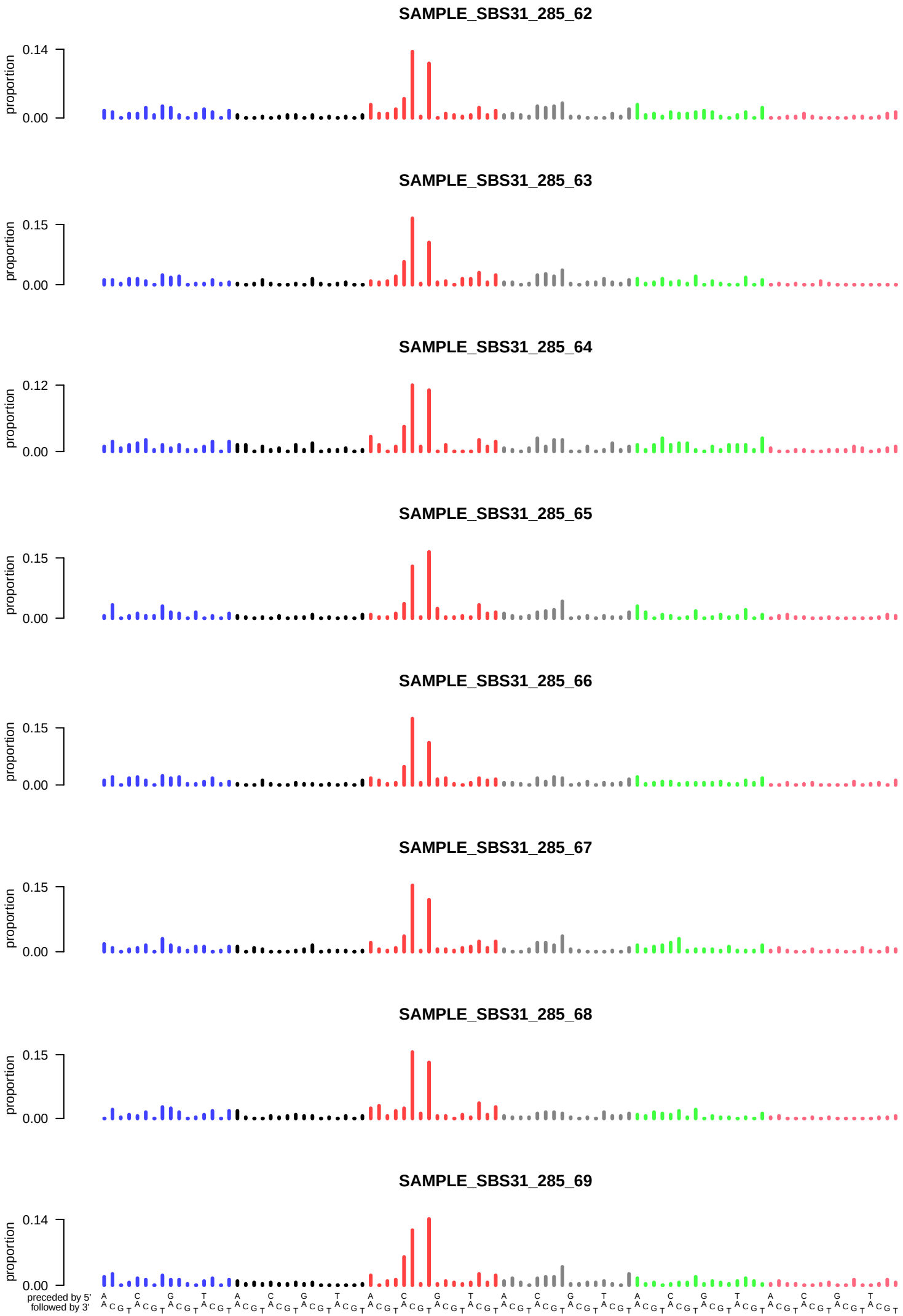
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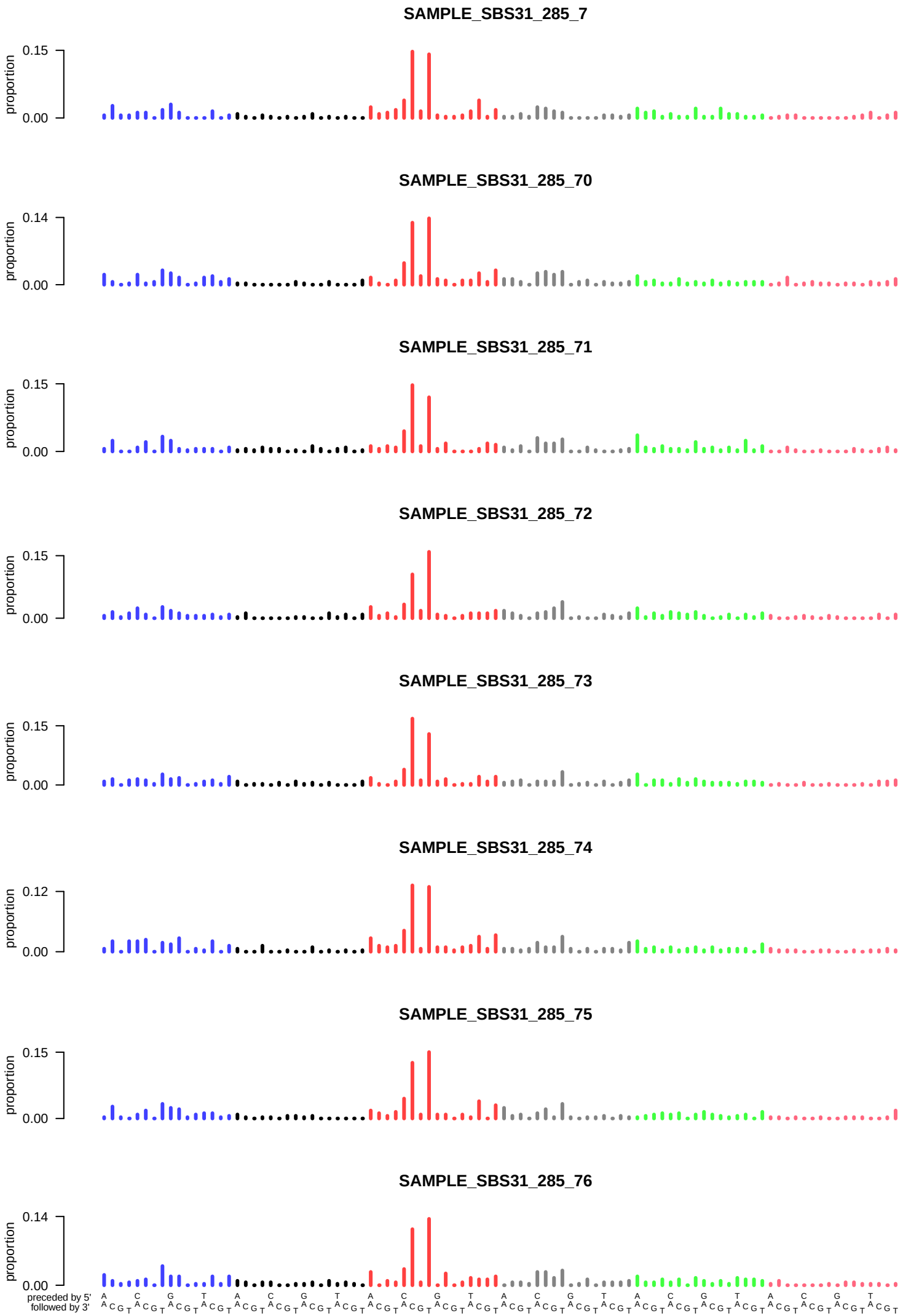
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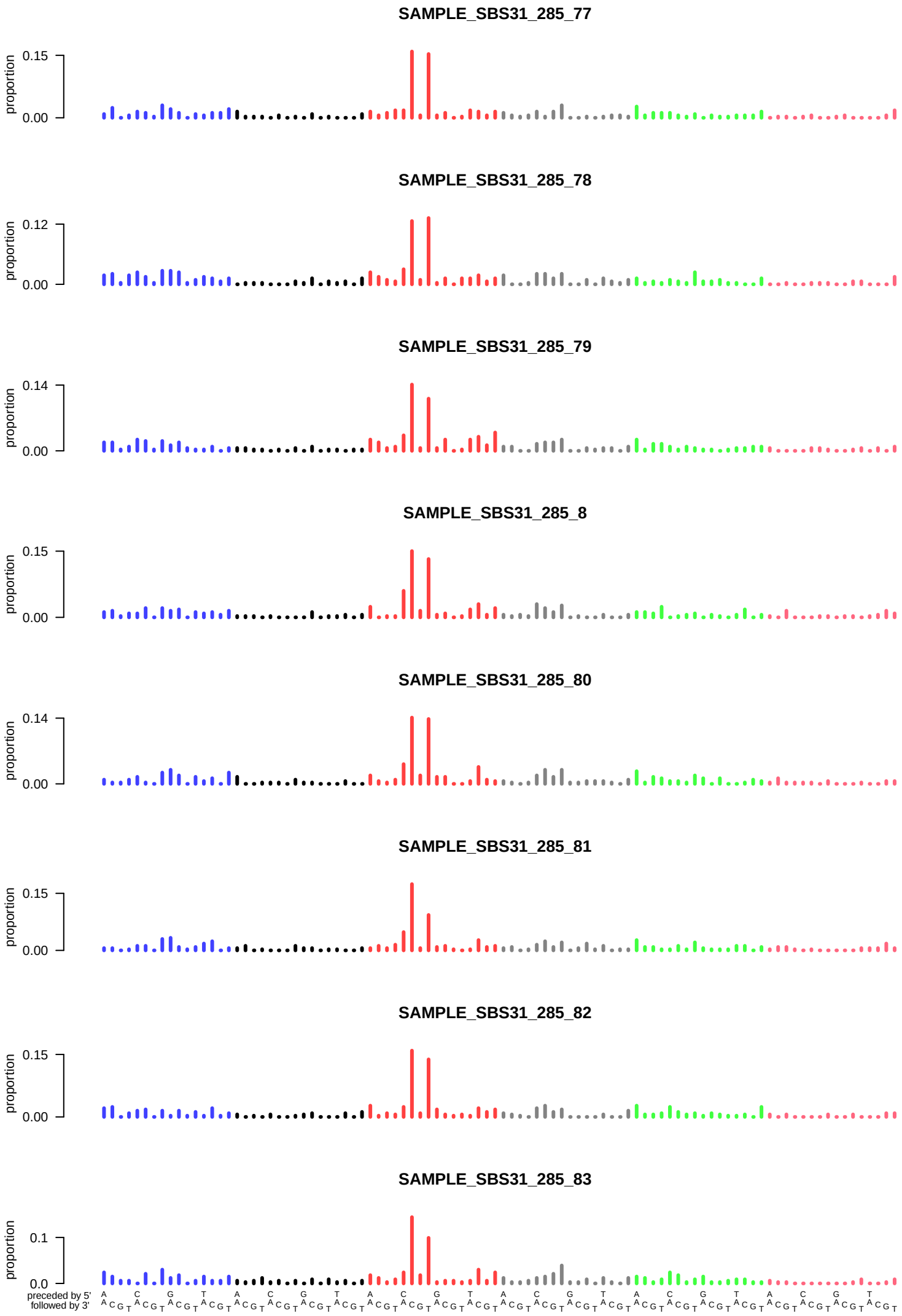
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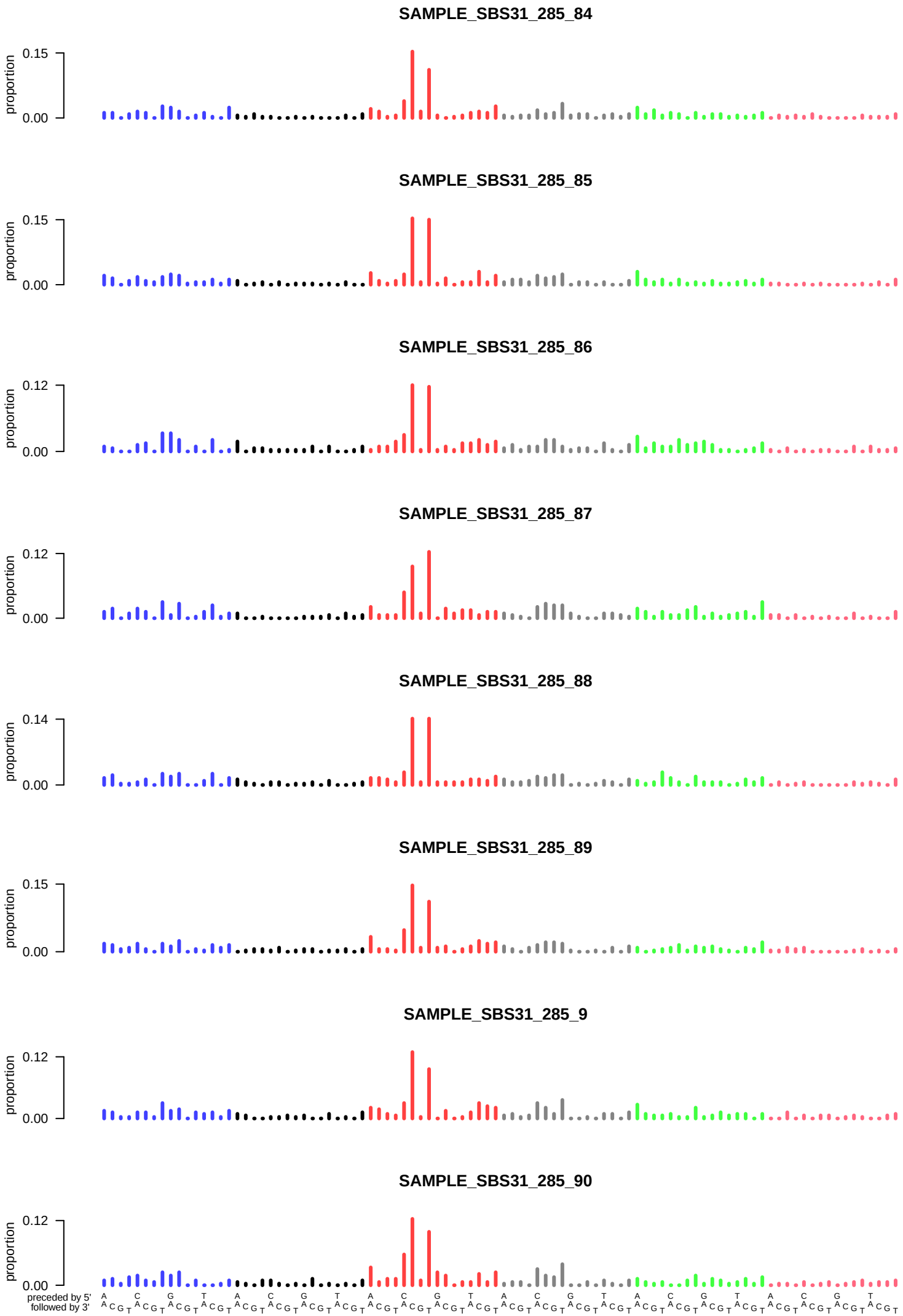
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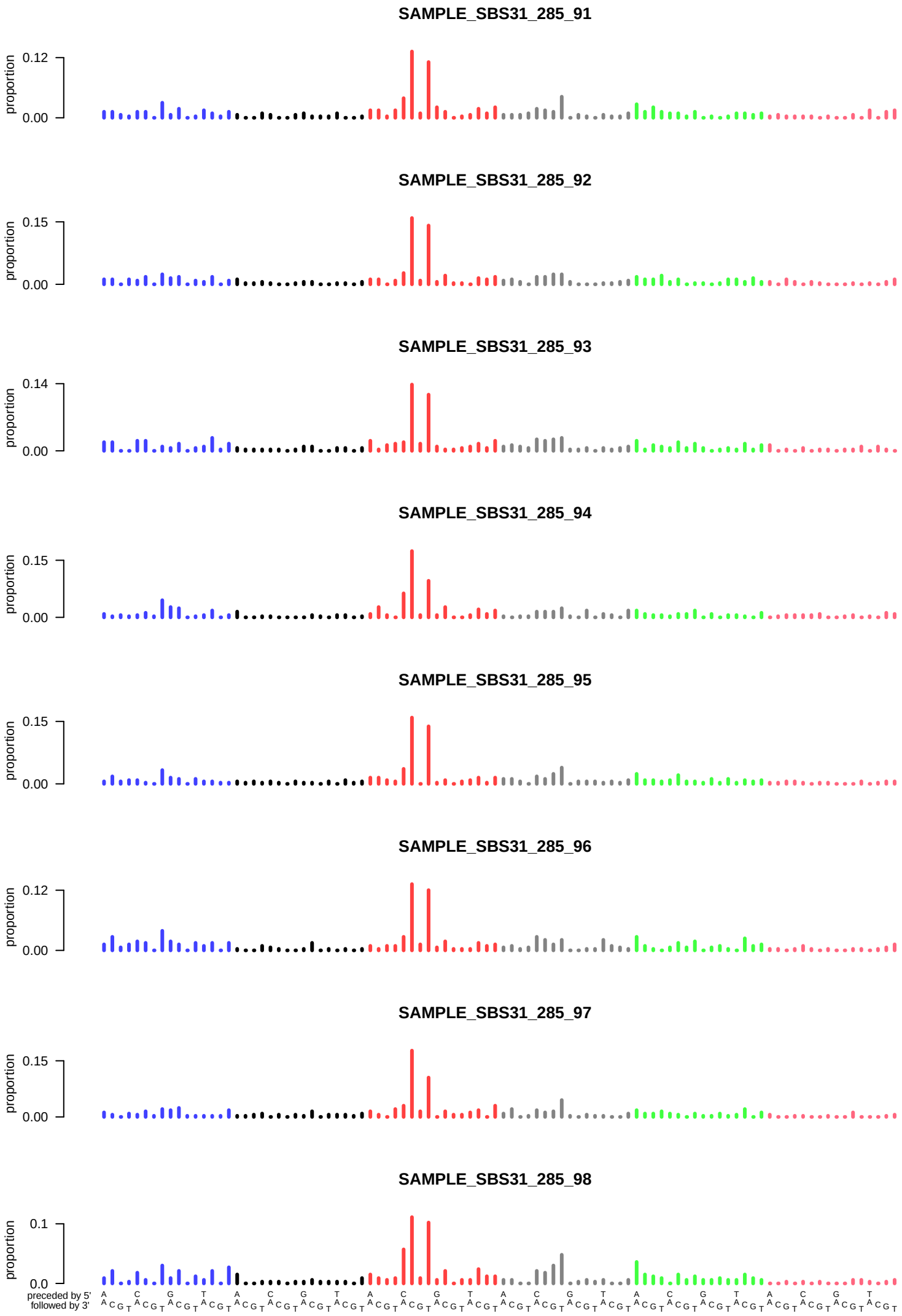
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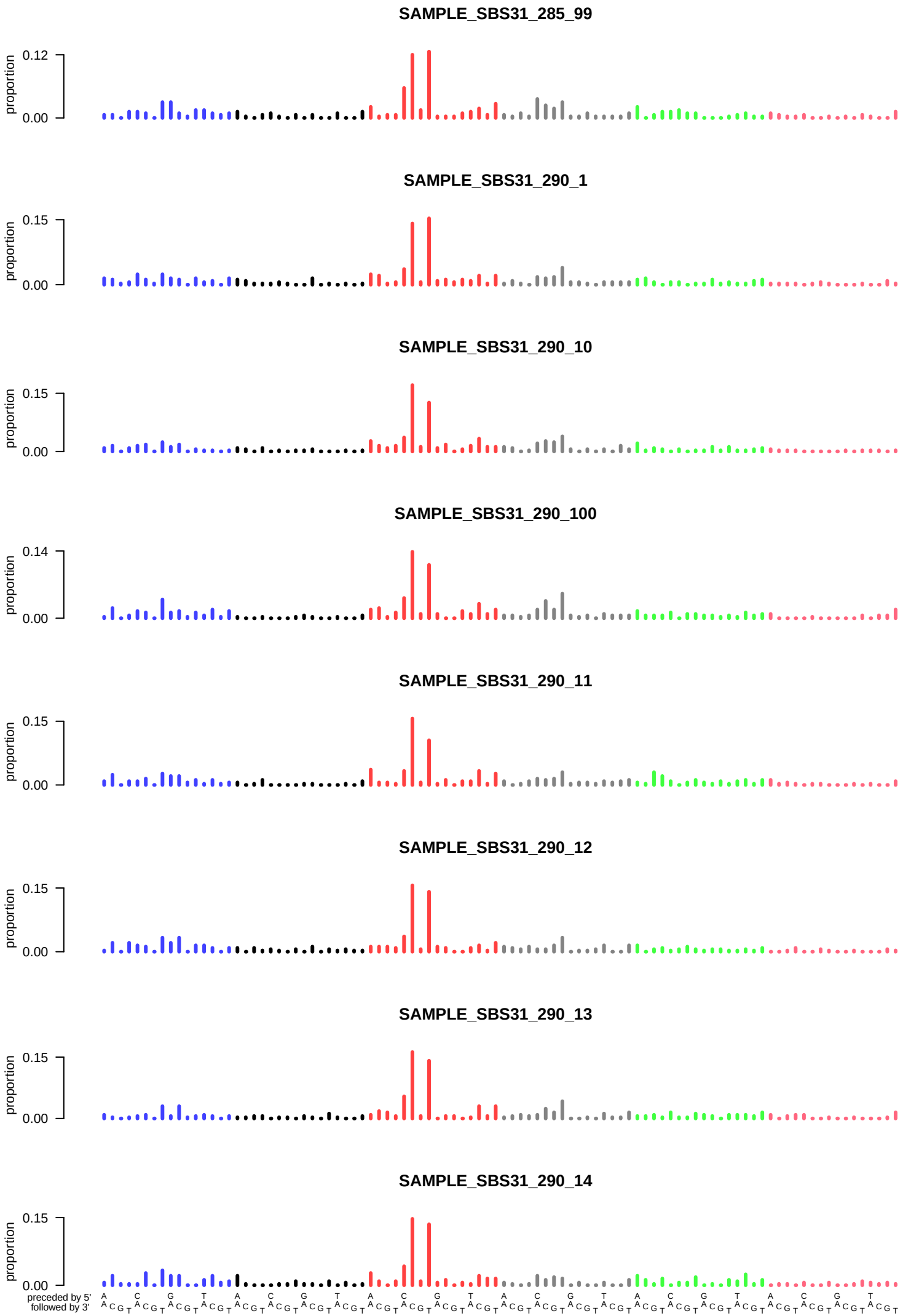
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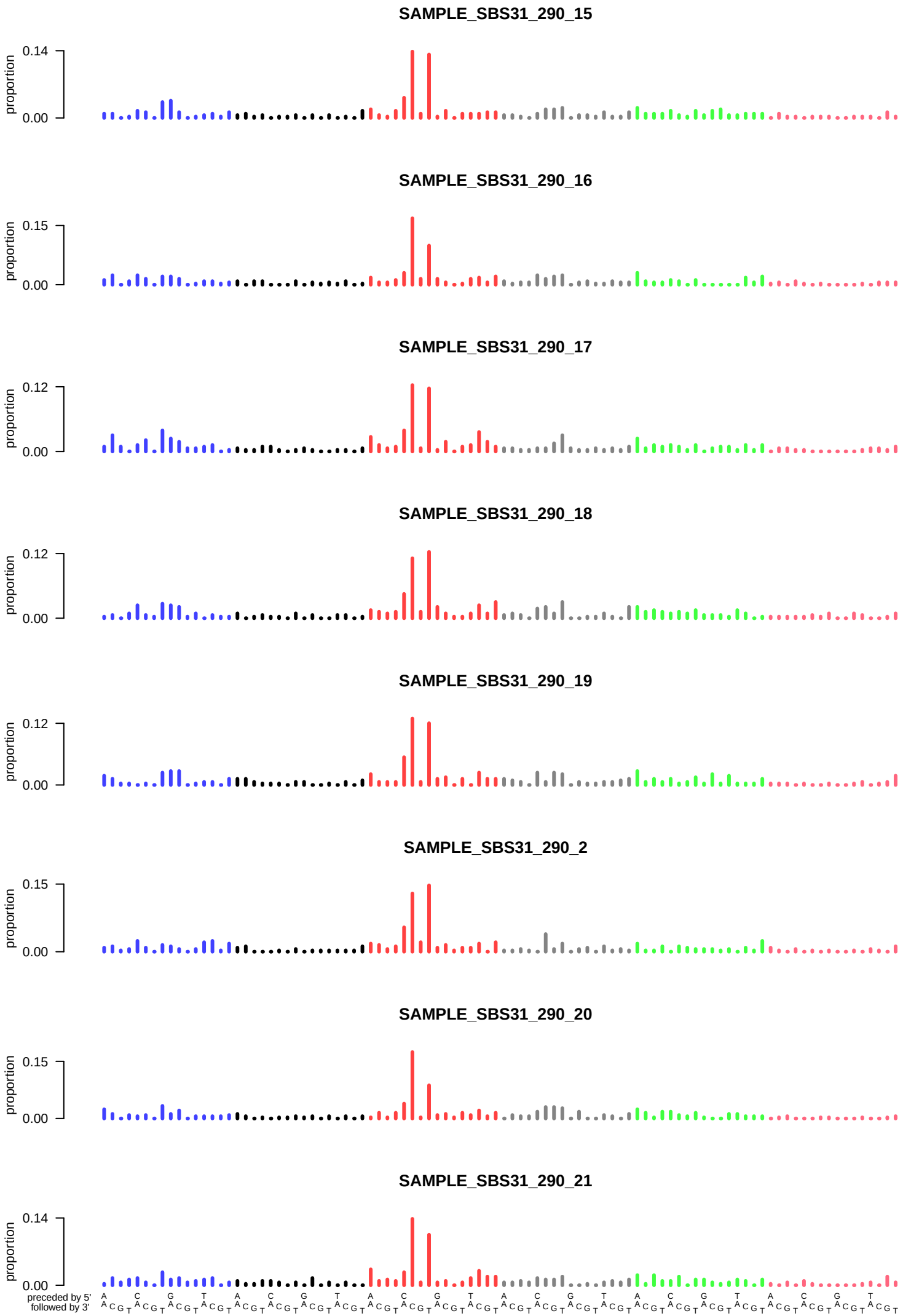
followed by 3'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SAMPLE_SBS31_290_17
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SAMPLE_SBS31_290_18
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SAMPLE_SBS31_290_19
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SAMPLE_SBS31_290_2
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SAMPLE_SBS31_290_20
proportion
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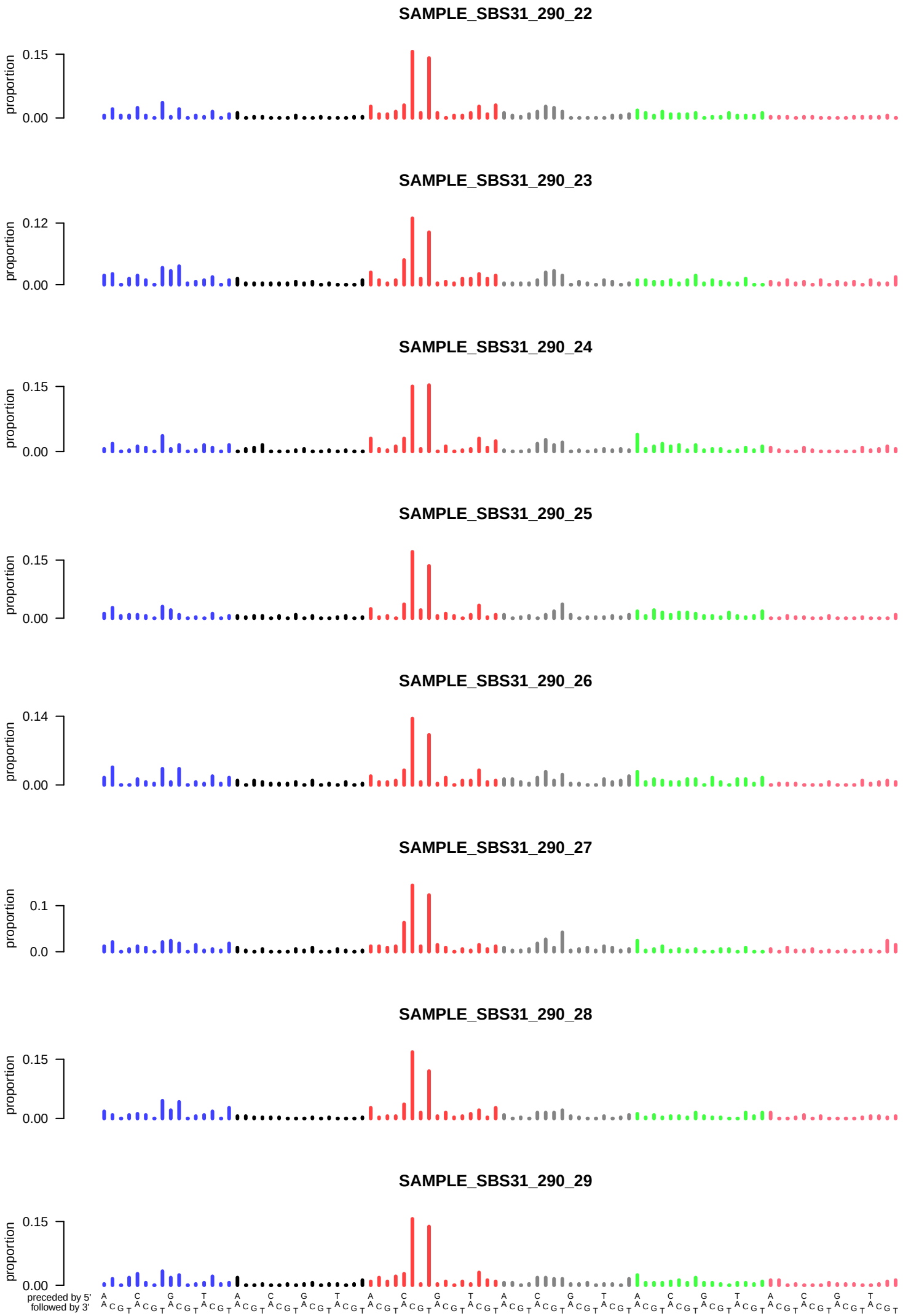
followed by 3'
A C G T A C G T A C G T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SAMPLE_SBS31_290_24
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SAMPLE_SBS31_290_25
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SAMPLE_SBS31_290_26
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SAMPLE_SBS31_290_27
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SAMPLE_SBS31_290_28
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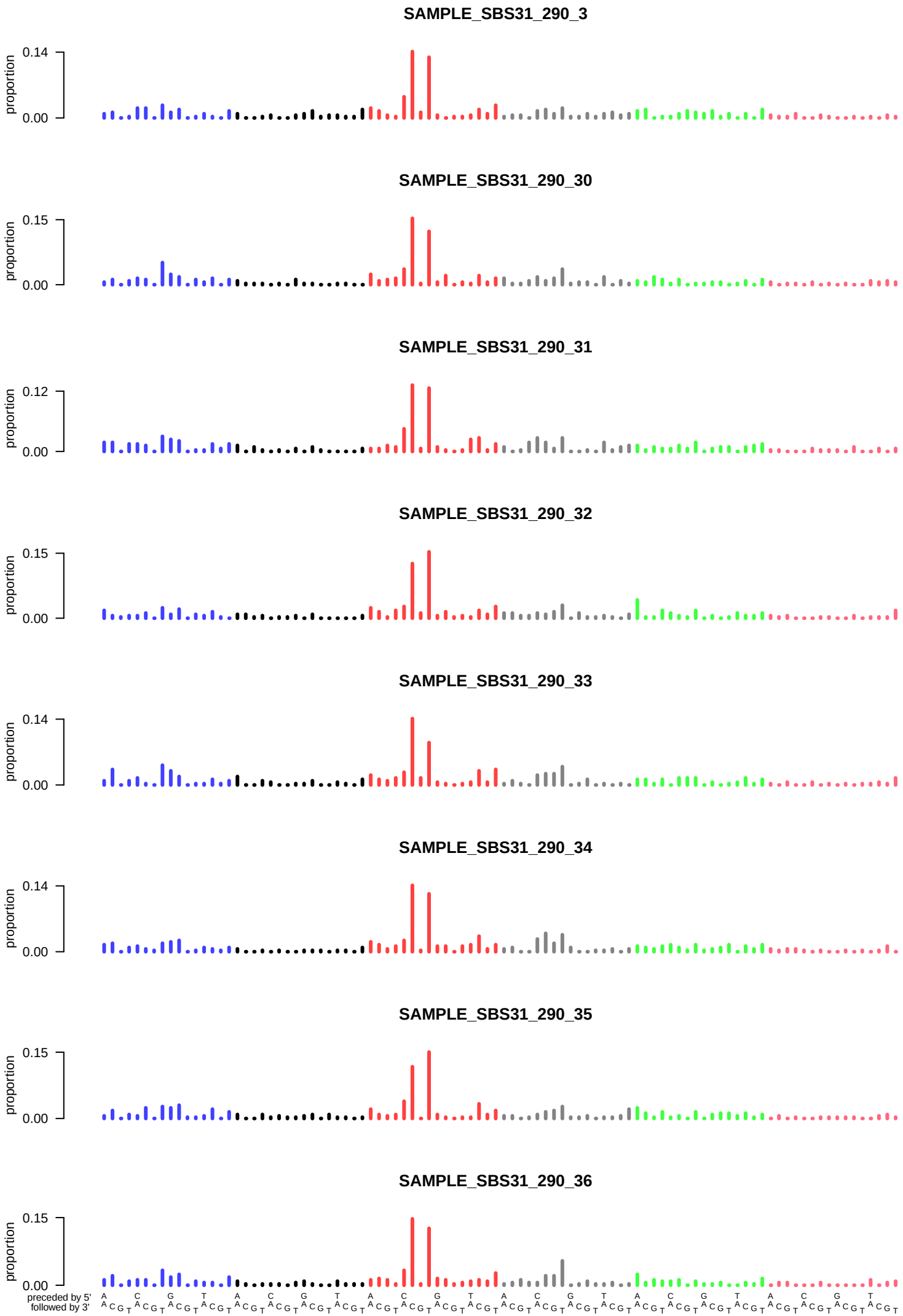
preceded by 5'
followed by 3'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SAMPLE_SBS31_290_32
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SAMPLE_SBS31_290_33
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SAMPLE_SBS31_290_34
proportion
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SAMPLE_SBS31_290_35
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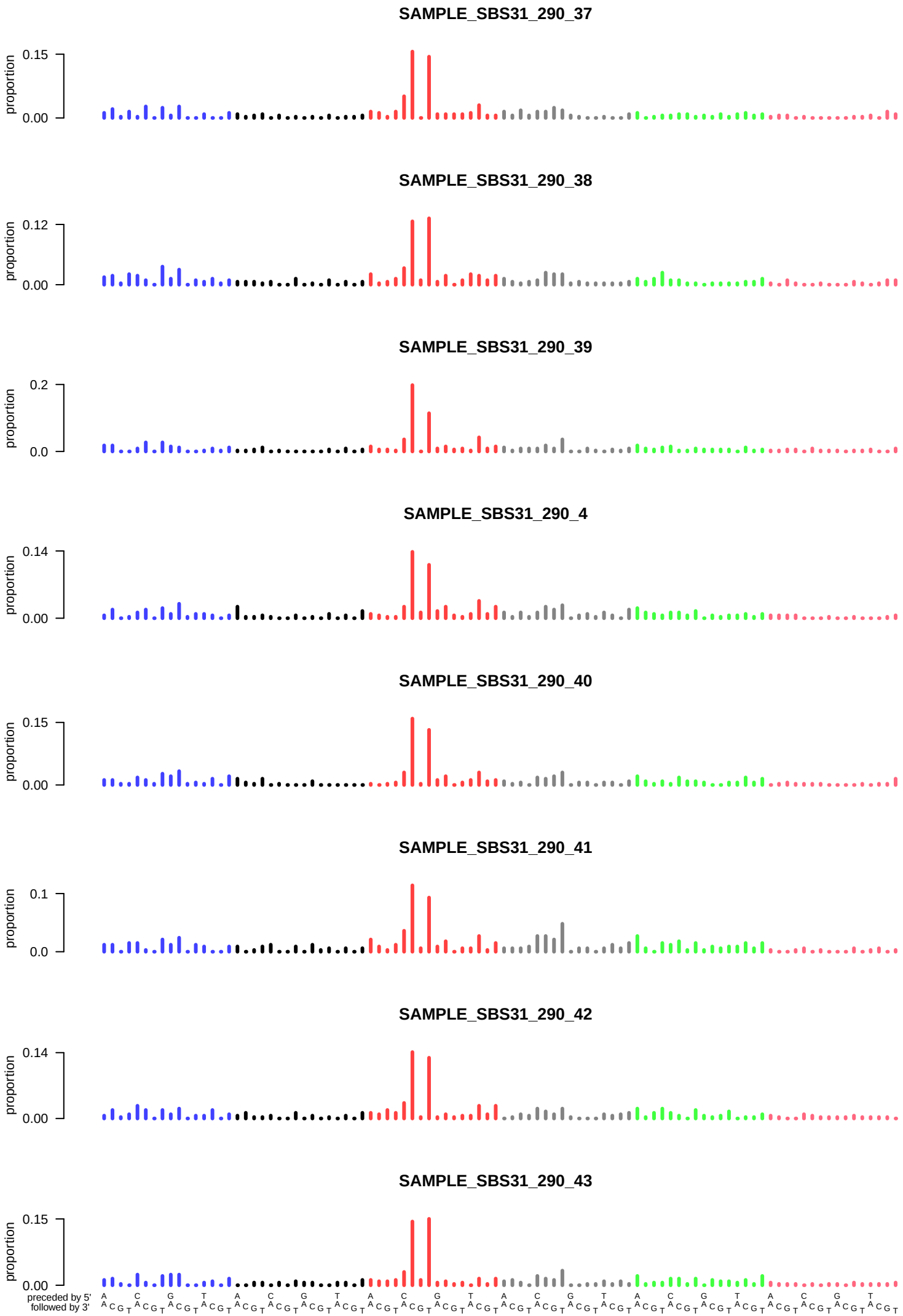
preceded by 5'
followed by 3'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SAMPLE_SBS31_290_4
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SAMPLE_SBS31_290_40
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SAMPLE_SBS31_290_41
proportion
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SAMPLE_SBS31_290_42
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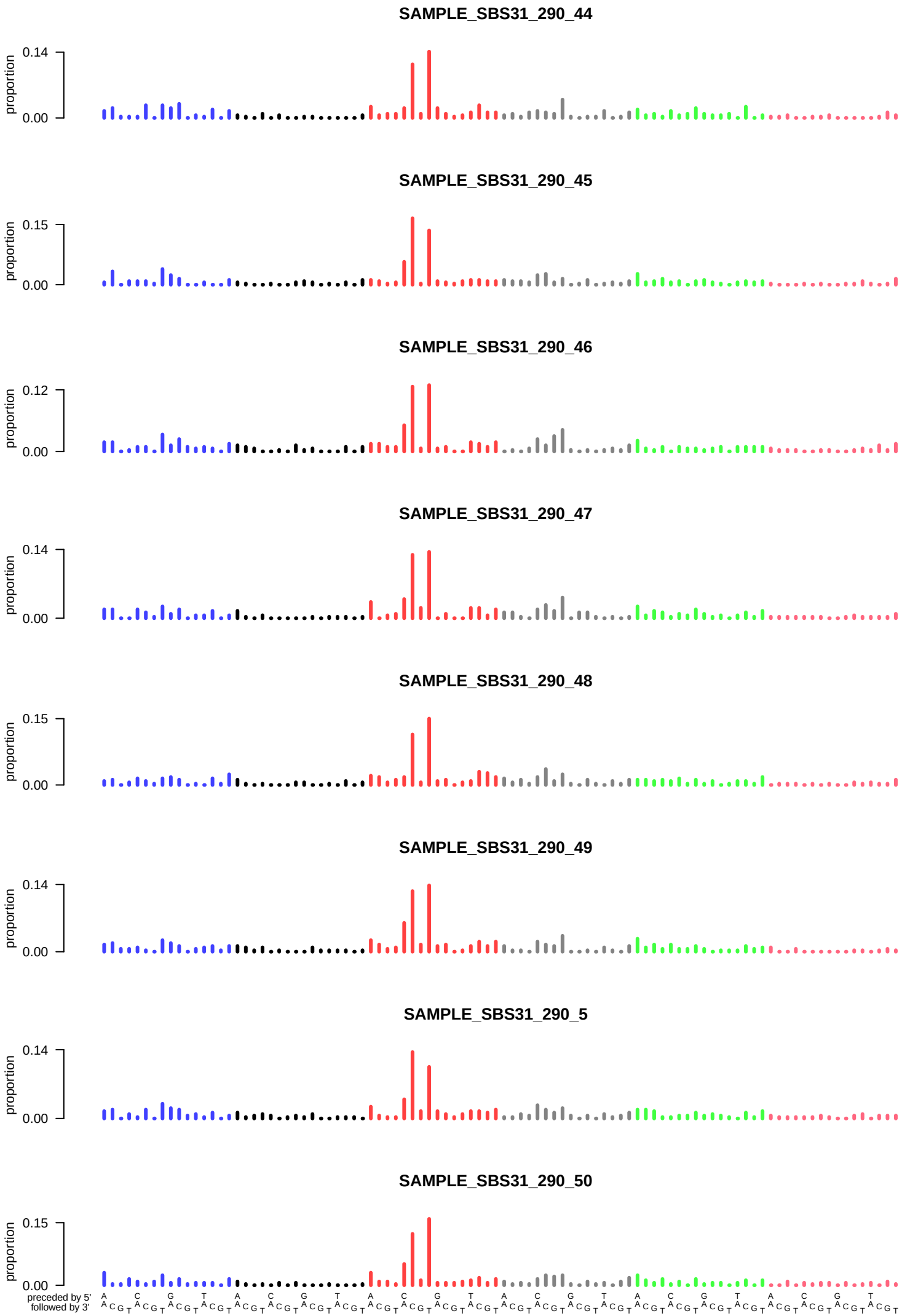
preceded by 5'
followed by 3'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SAMPLE_SBS31_290_48
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SAMPLE_SBS31_290_49
proportion
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SAMPLE_SBS31_290_5
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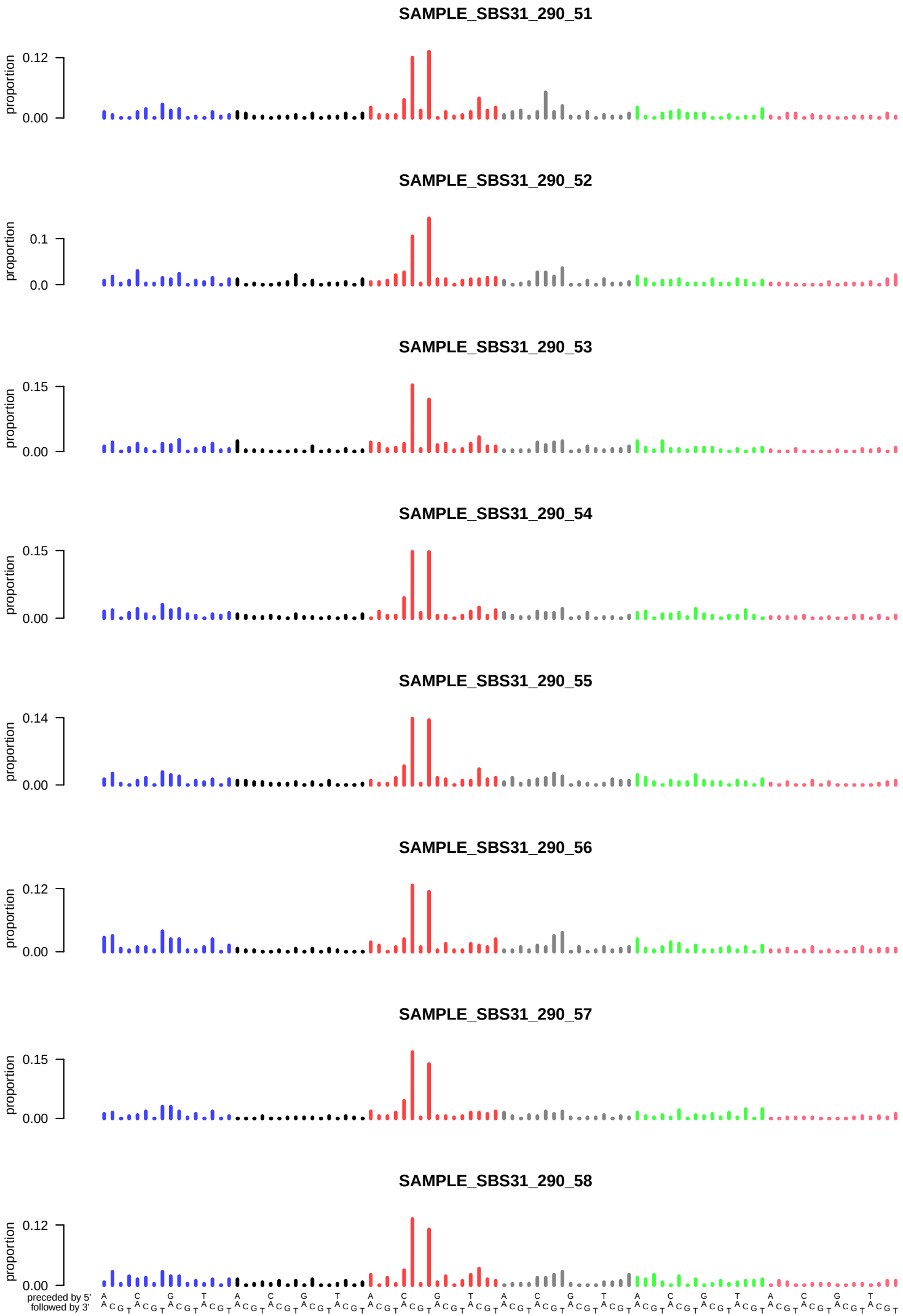
preceded by 5'
followed by 3'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SAMPLE_SBS31_290_55
proportion
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SAMPLE_SBS31_290_56
proportion
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SAMPLE_SBS31_290_57
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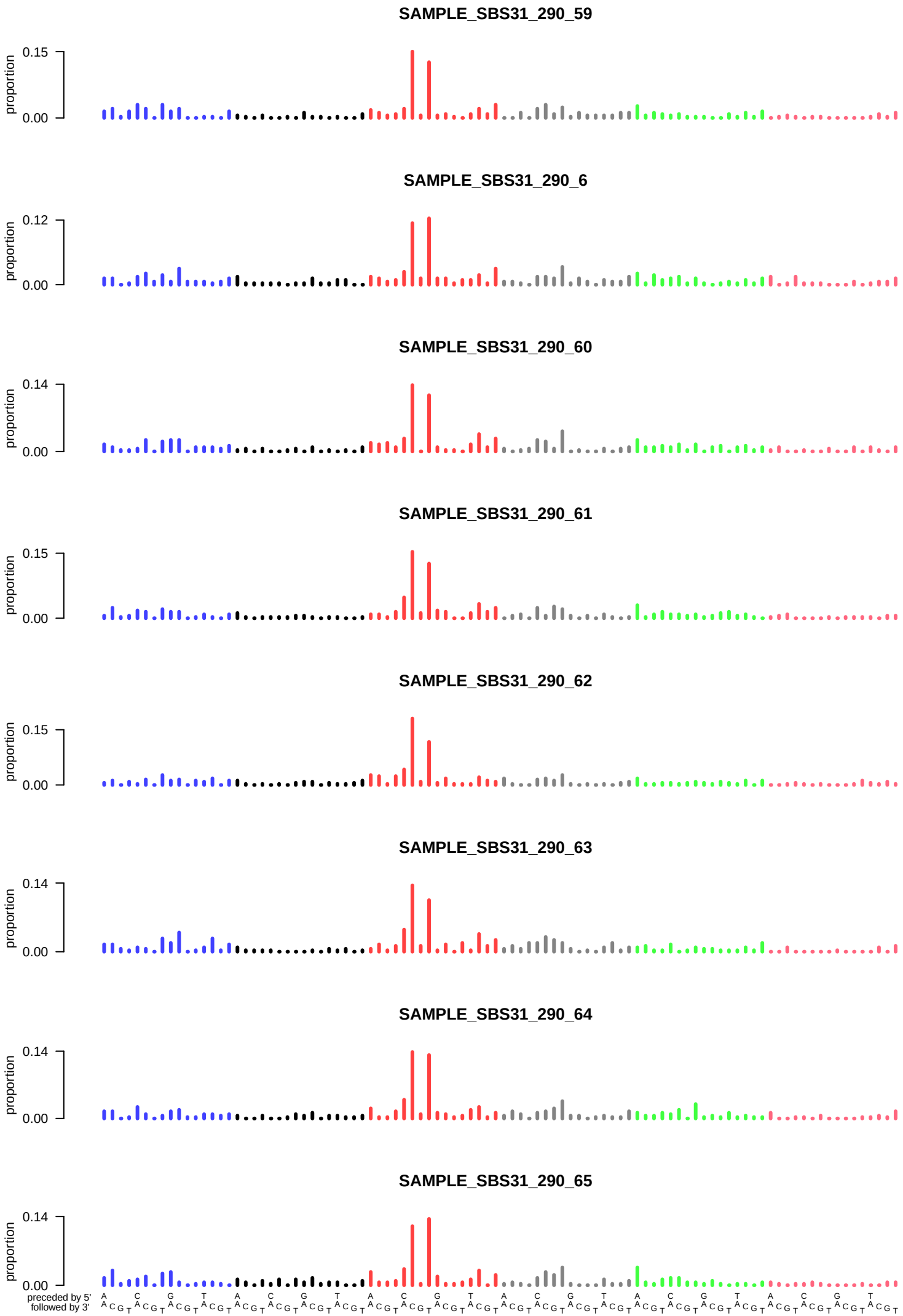
preceded by 5'
followed by 3'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SAMPLE_SBS31_290_61
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SAMPLE_SBS31_290_62
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SAMPLE_SBS31_290_63
proportion
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SAMPLE_SBS31_290_64
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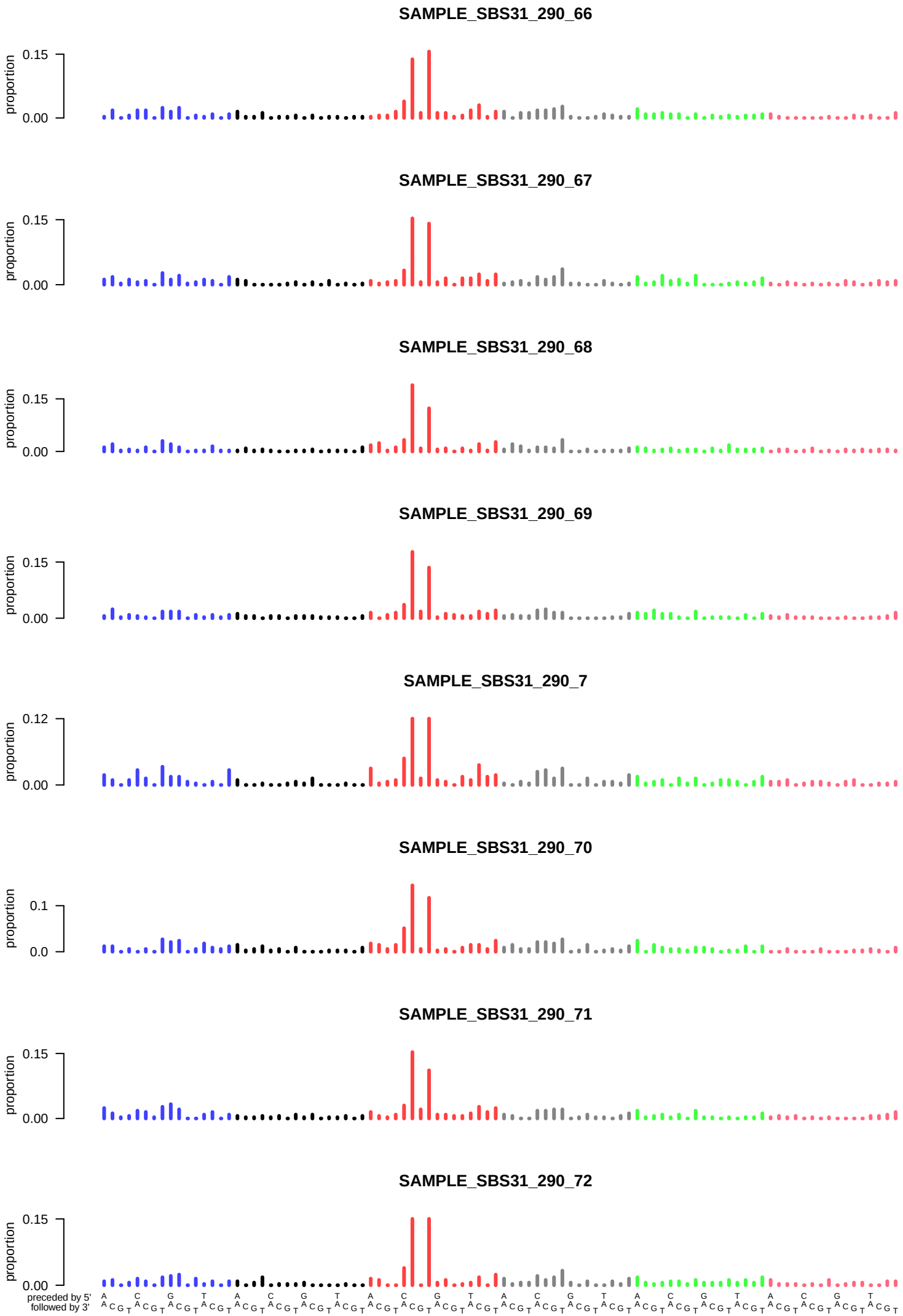
preceded by 5'
followed by 3'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SAMPLE_SBS31_290_70
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SAMPLE_SBS31_290_71
proportion
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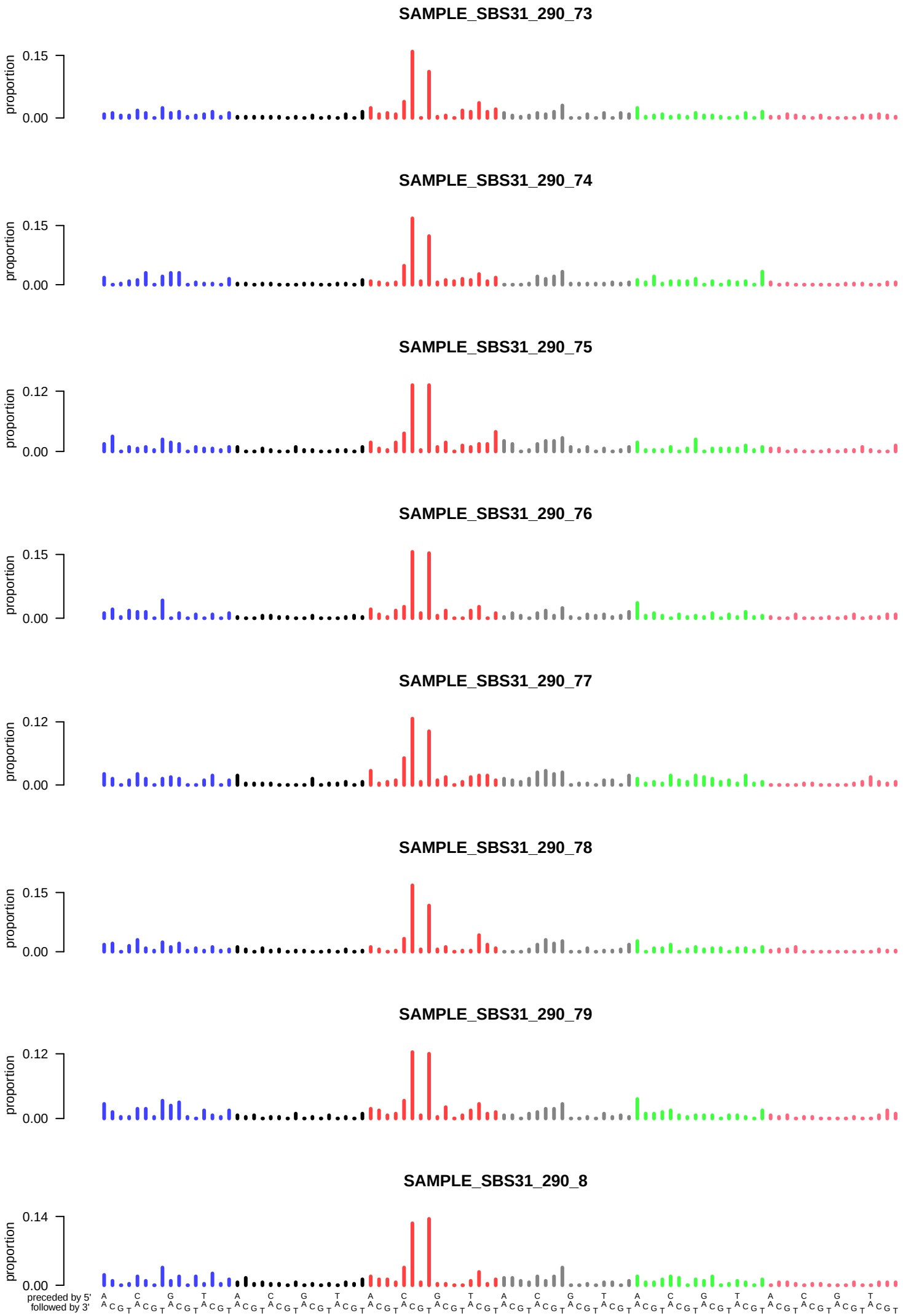
preceded by 5'
followed by 3'
A C G T A C G T A C G T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SAMPLE_SBS31_290_78
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SAMPLE_SBS31_290_79
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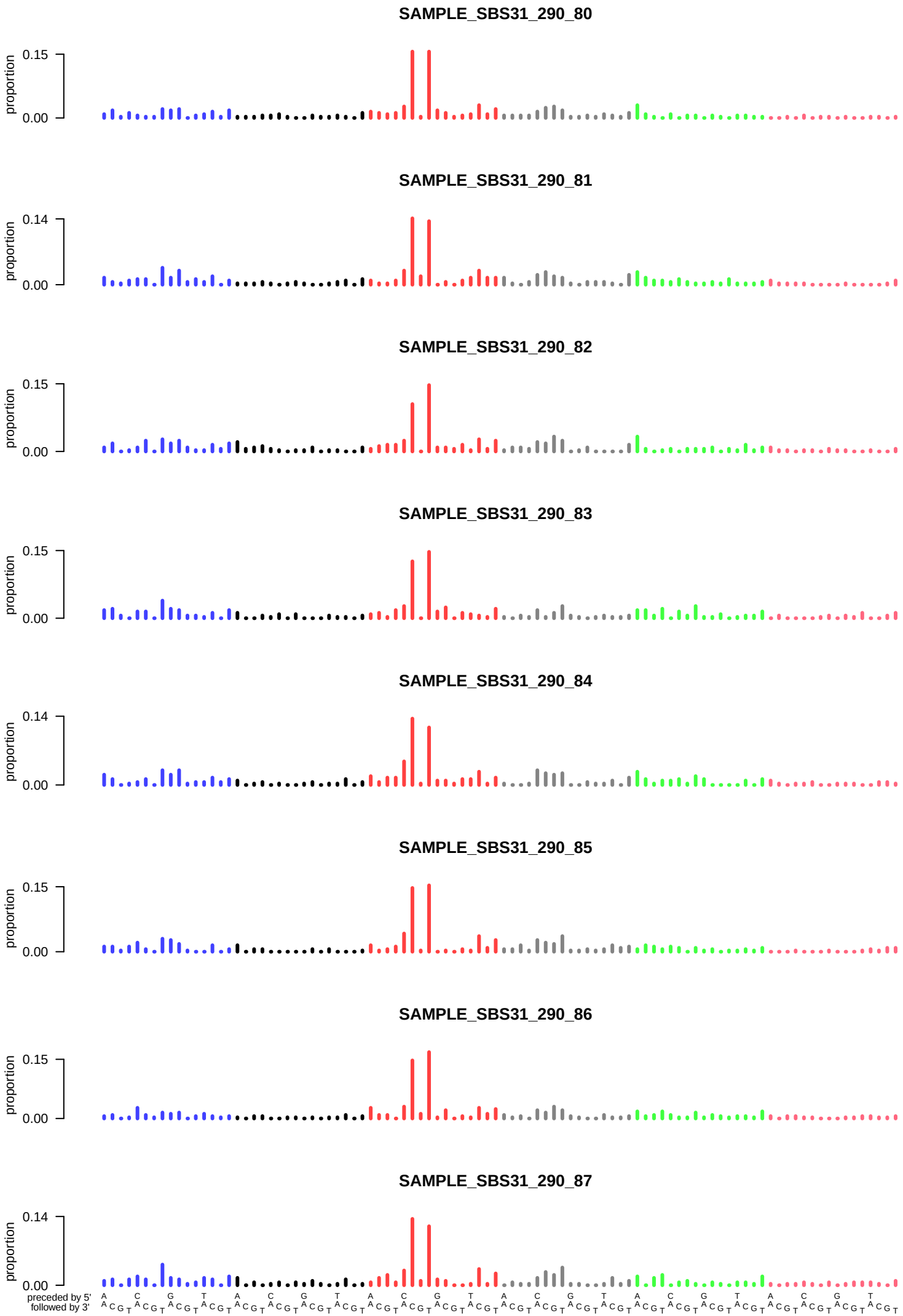
preceded by 5'
followed by 3'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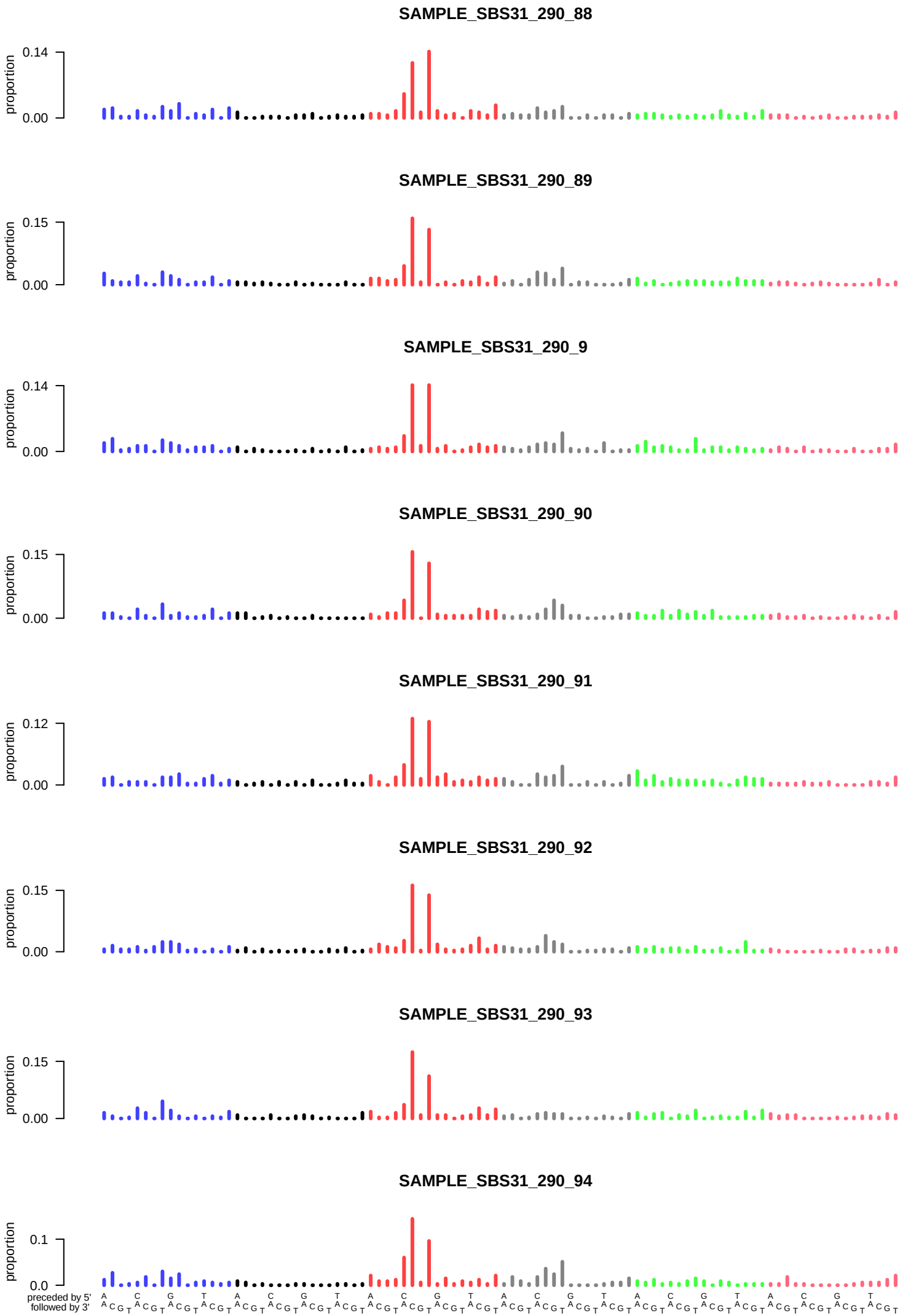
followed by 3'
A C G T A C G T A C G T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SAMPLE_SBS31_290_92
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SAMPLE_SBS31_290_93
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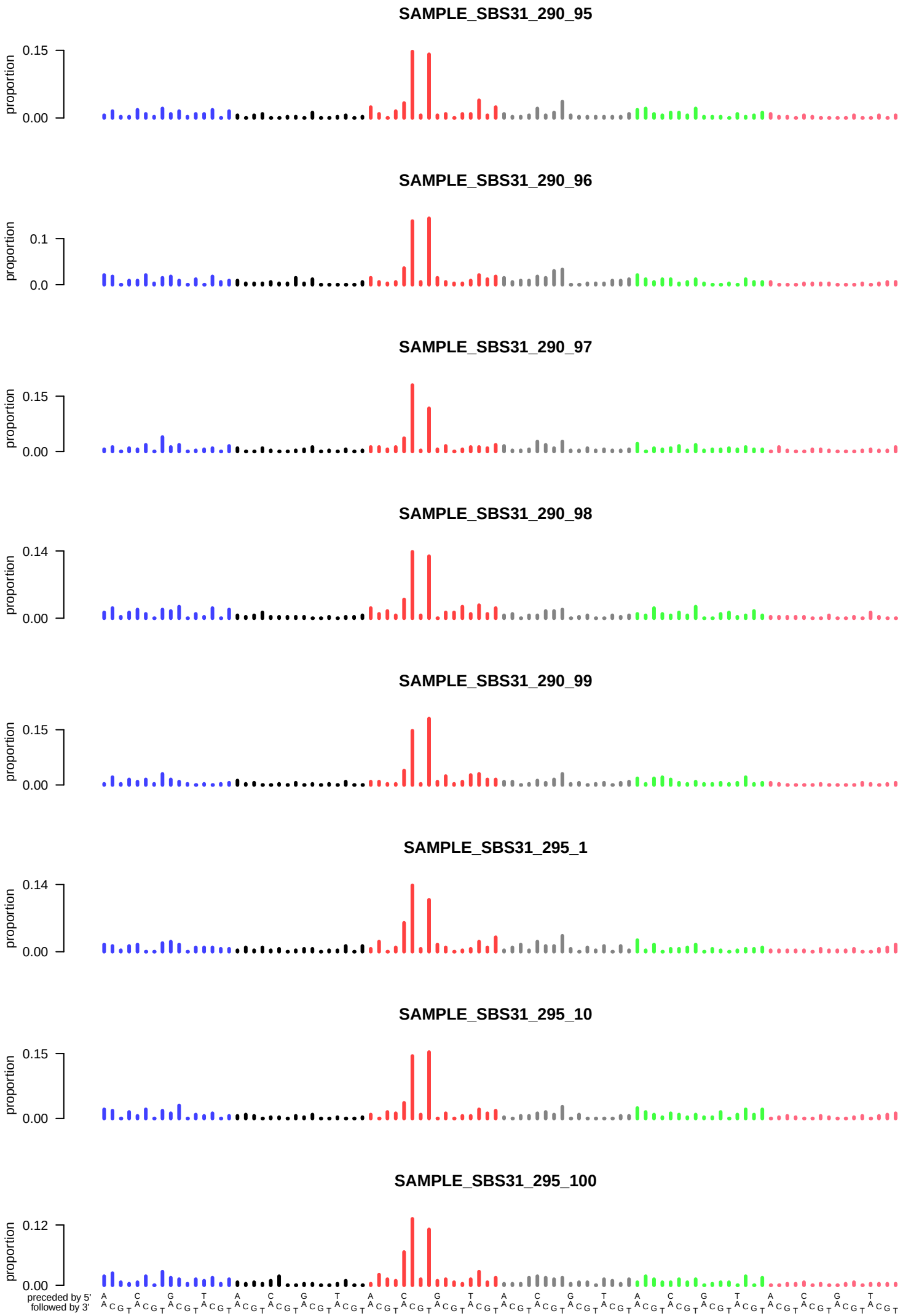
preceded by 5'
followed by 3'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SAMPLE_SBS31_295_10
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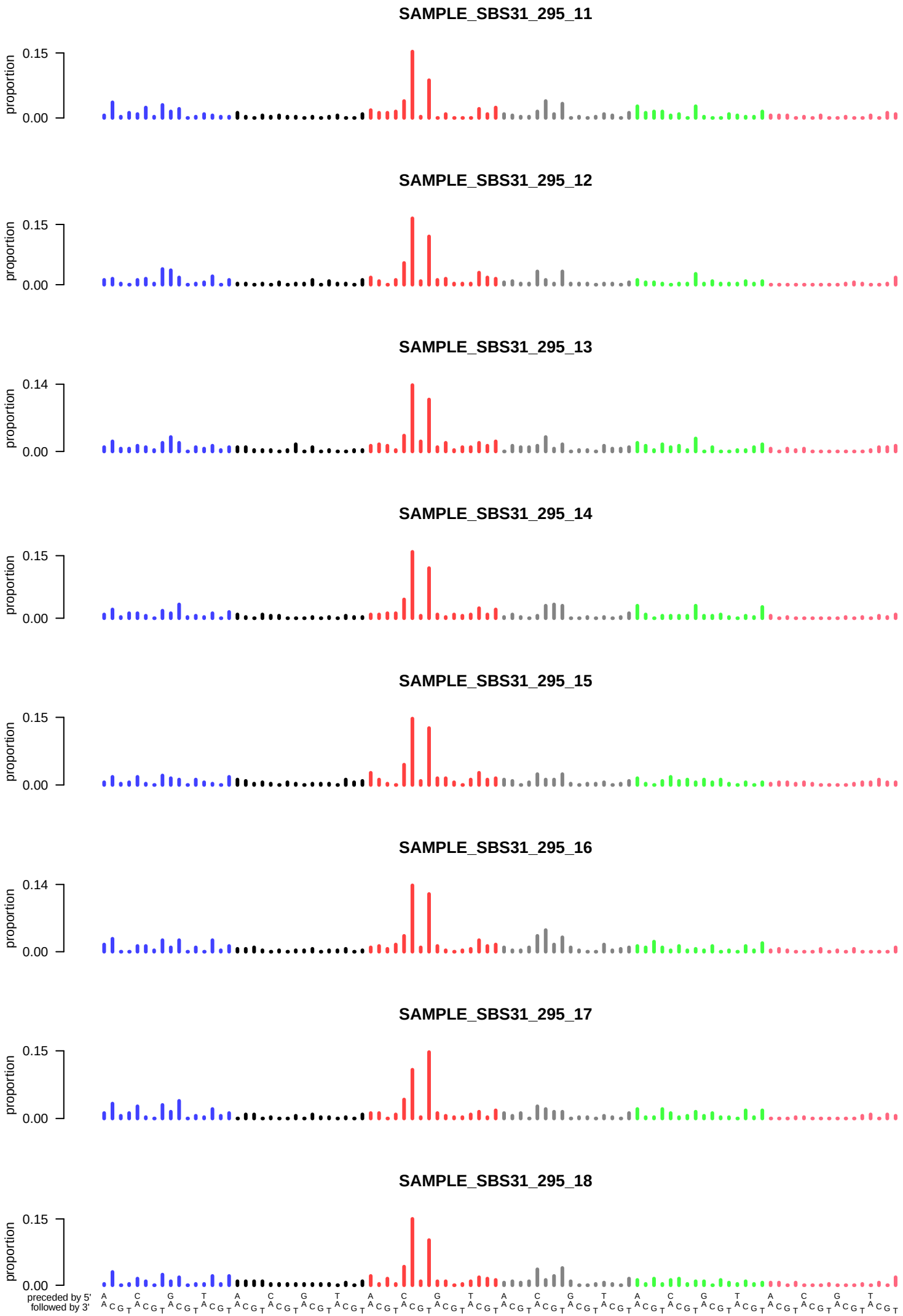
followed by 3'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SAMPLE_SBS31_295_15
SAMPLE_SBS31_295_16
SAMPLE_SBS31_295_17
SAMPLE_SBS31_295_18
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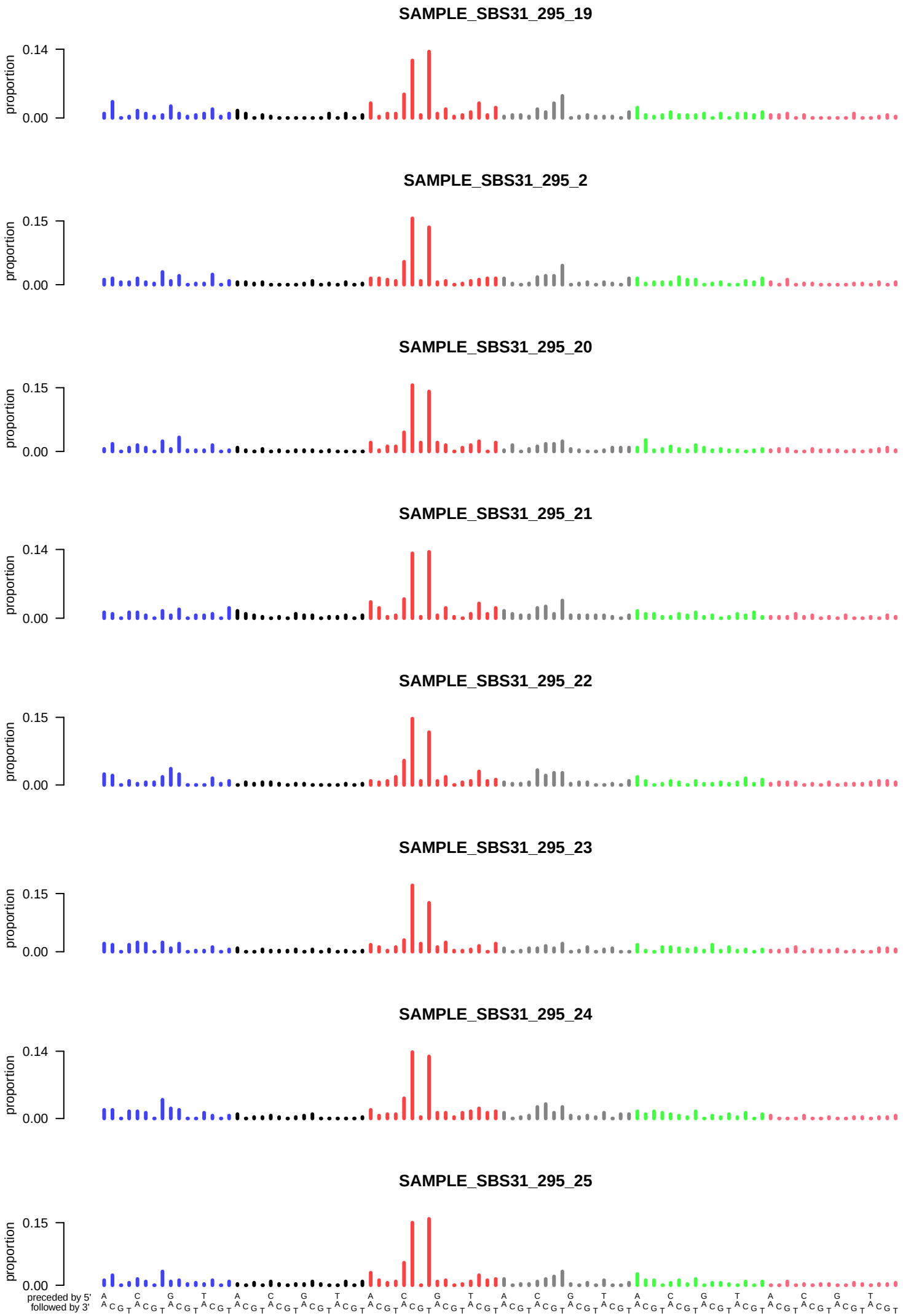
preceded by 5'
followed by 3'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SAMPLE_SBS31_295_24
proportion
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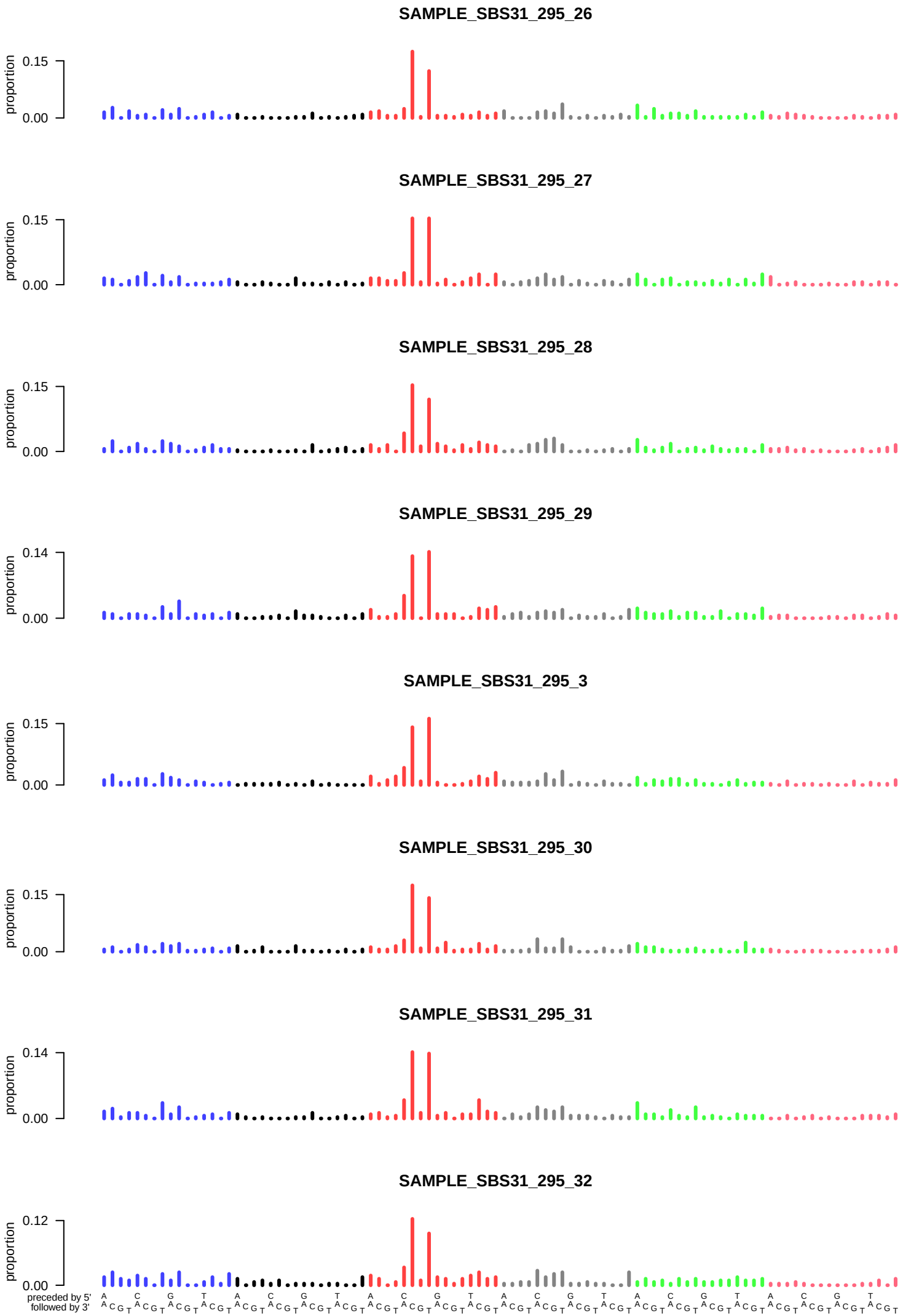
preceded by 5'
followed by 3'
A C G T A C G T A C G T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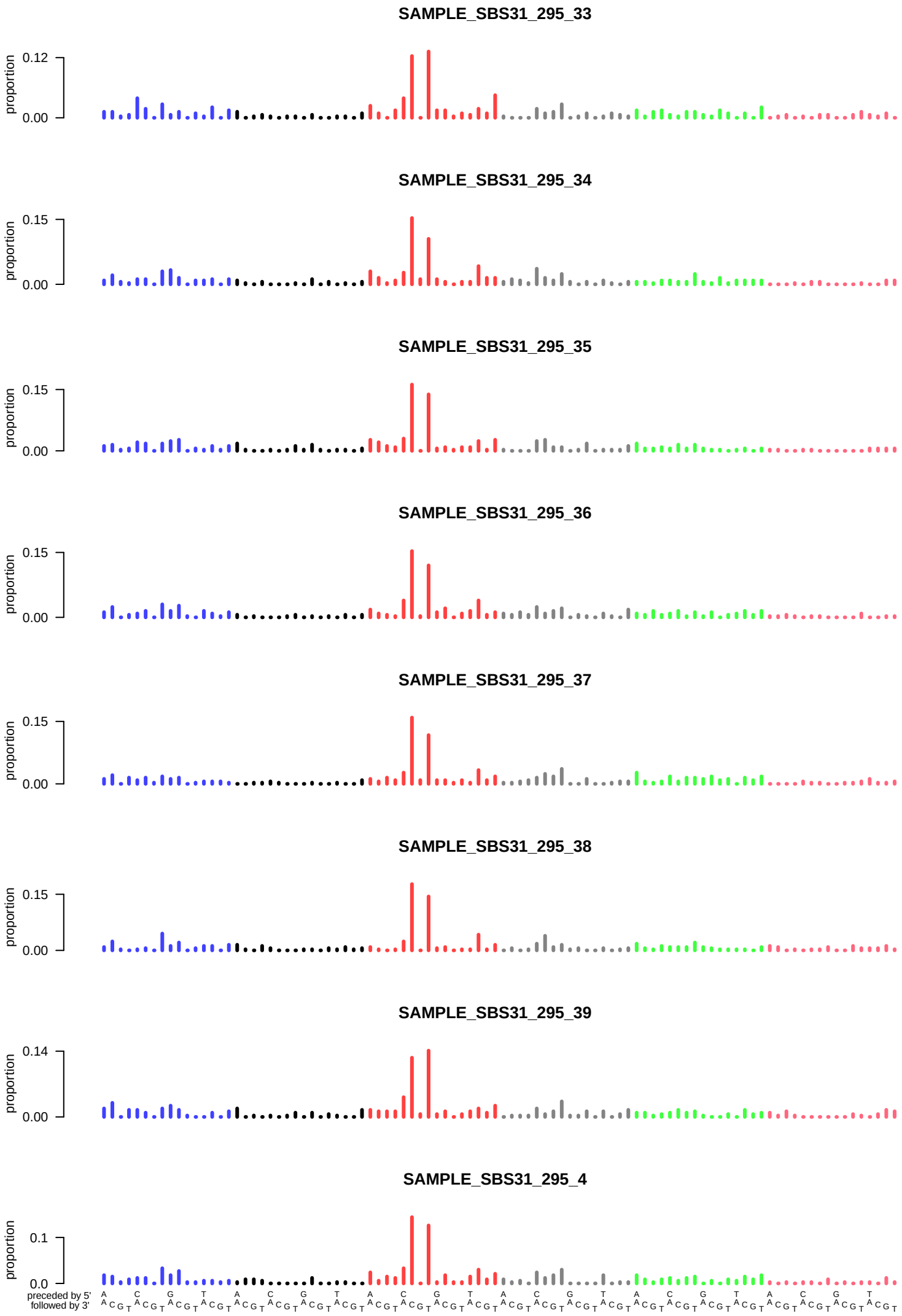
followed by 3'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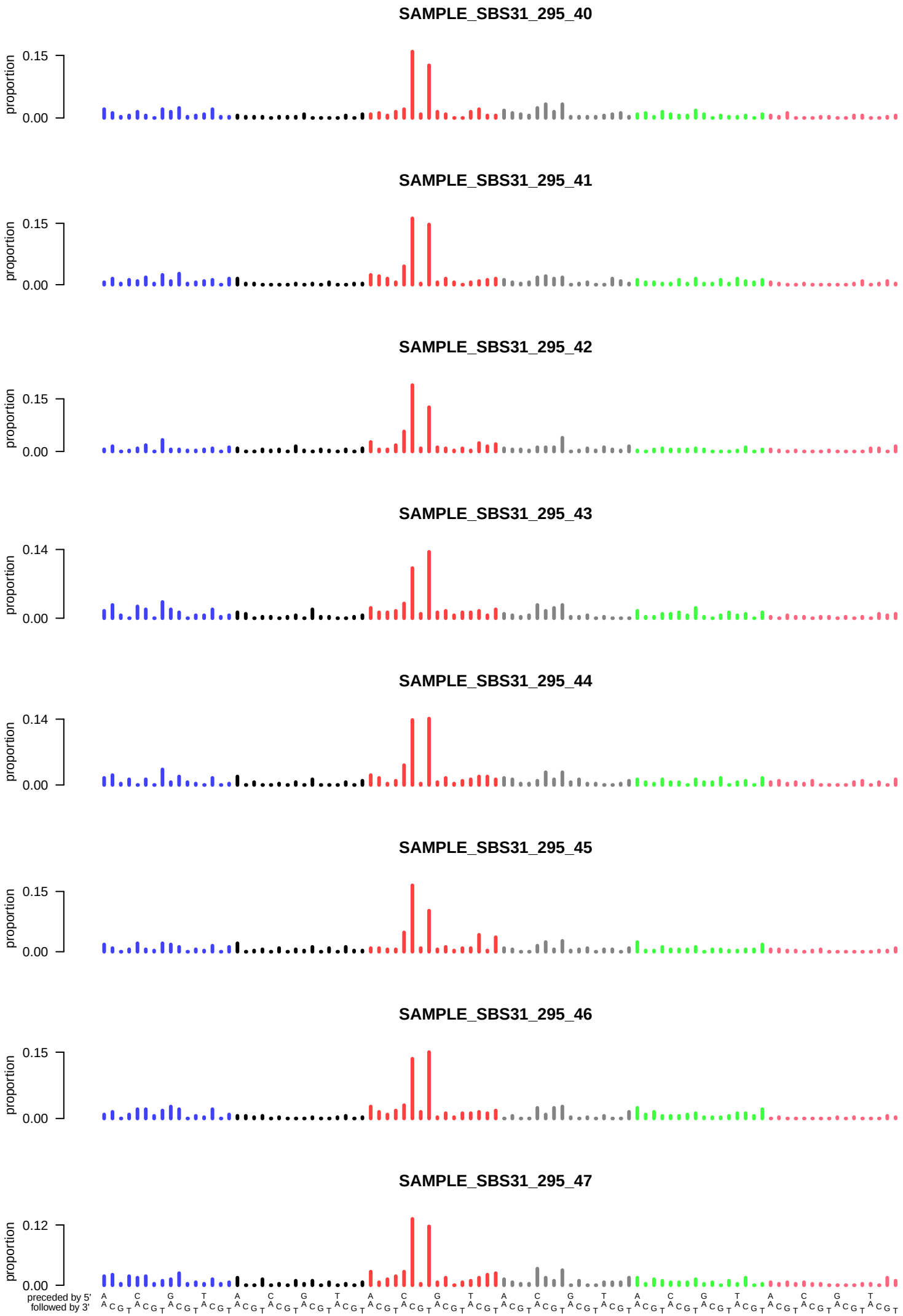
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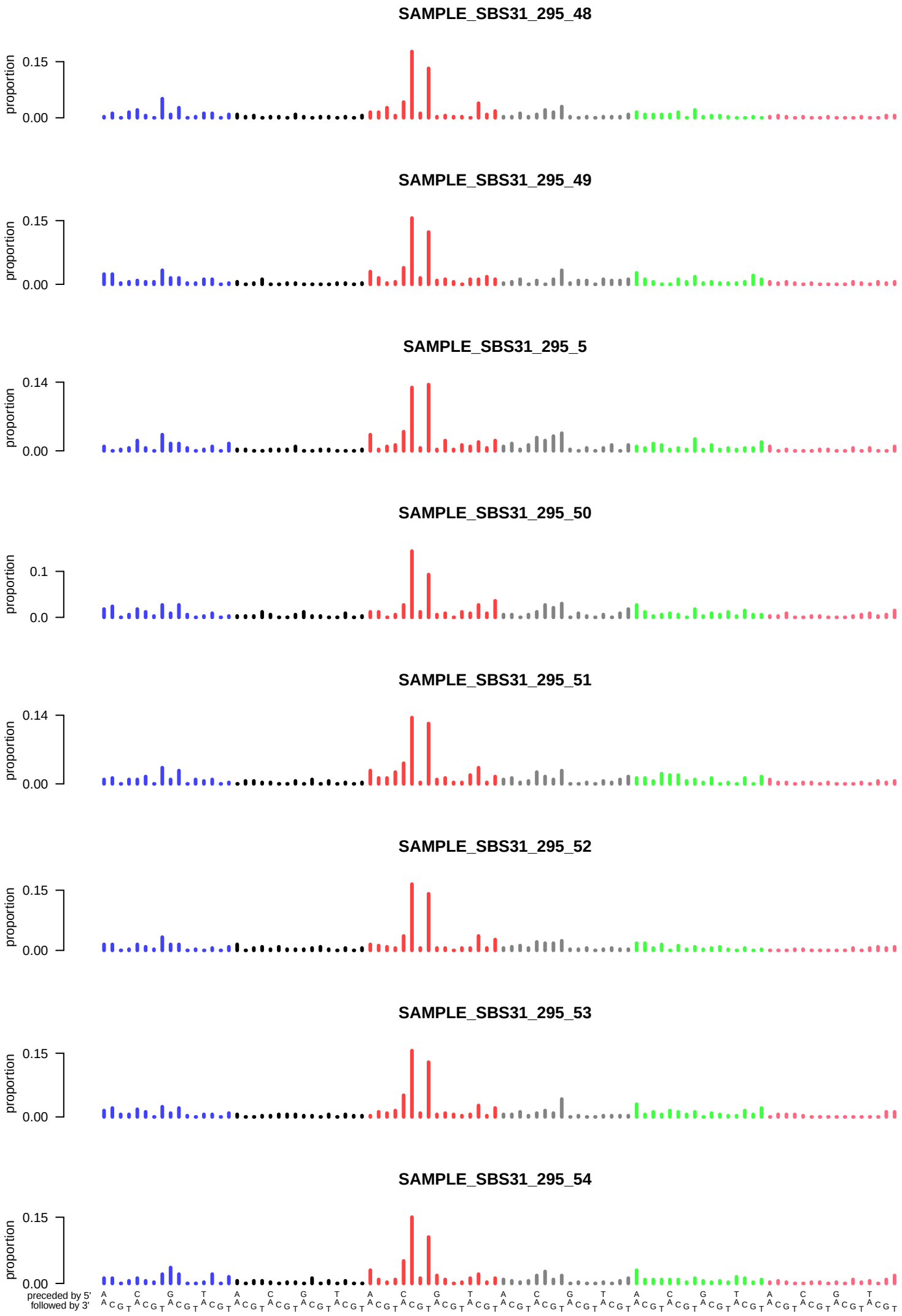
followed by 3'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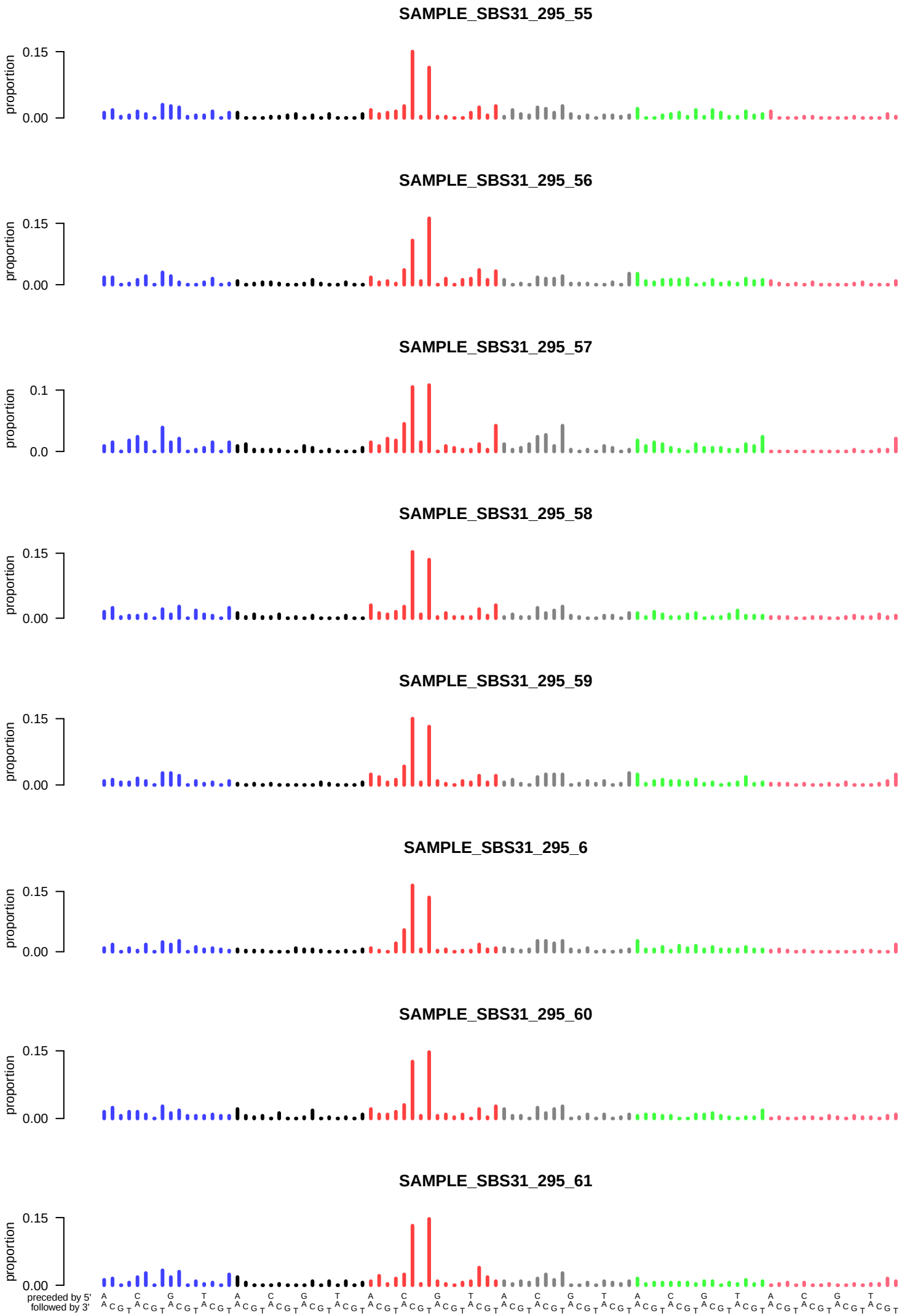
followed by 3'
A C G T A C G T A C G T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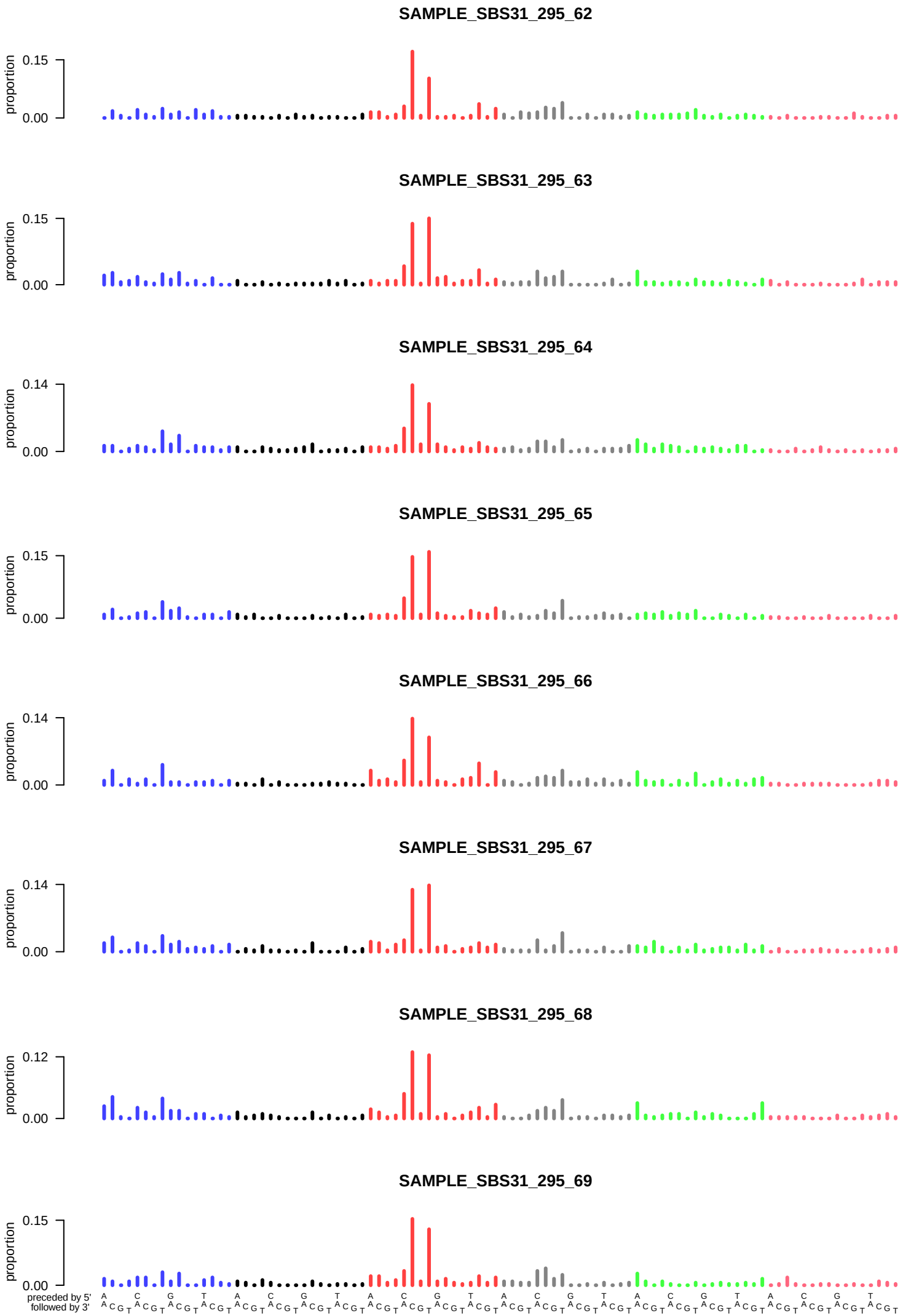
followed by 3'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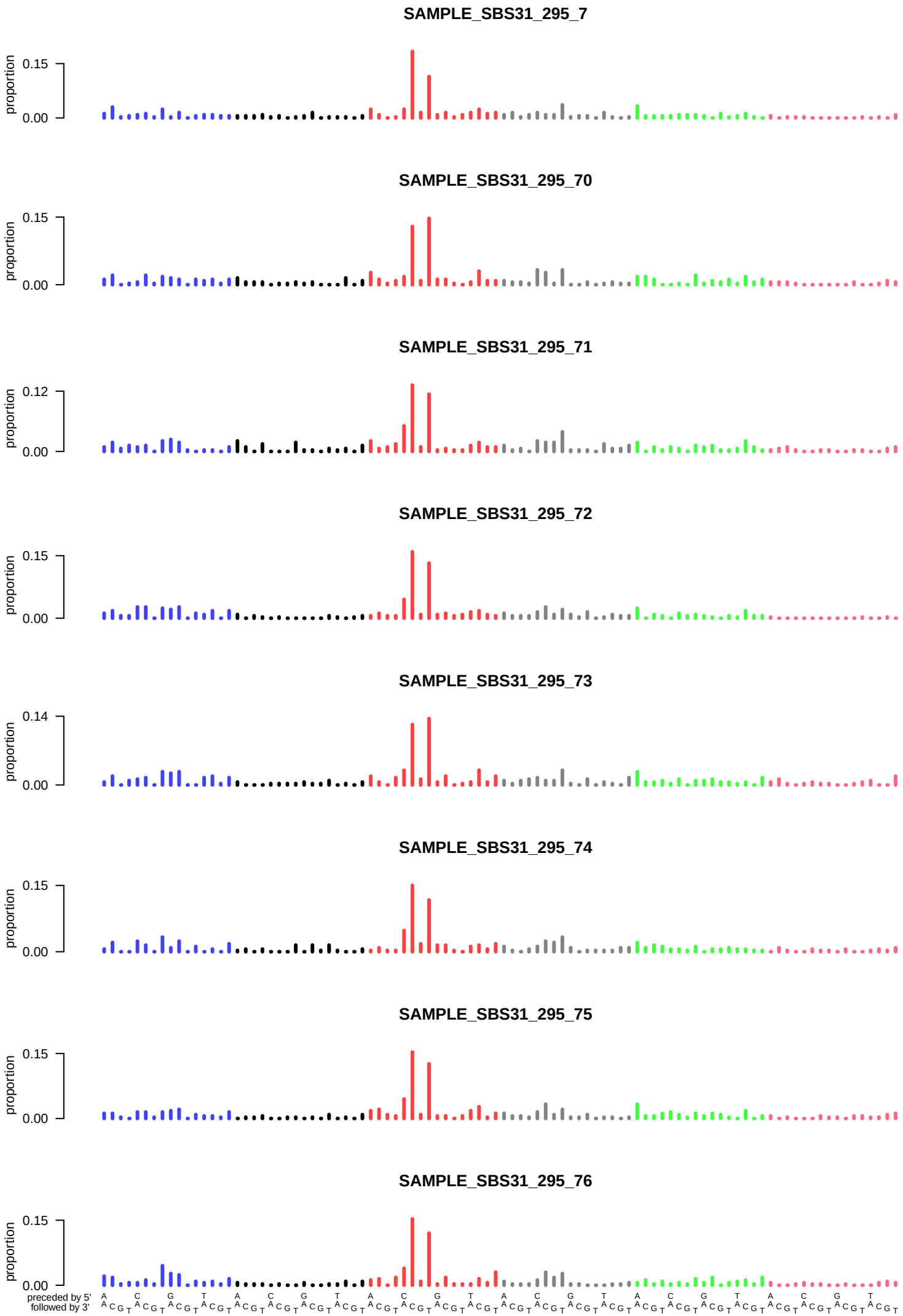
followed by 3'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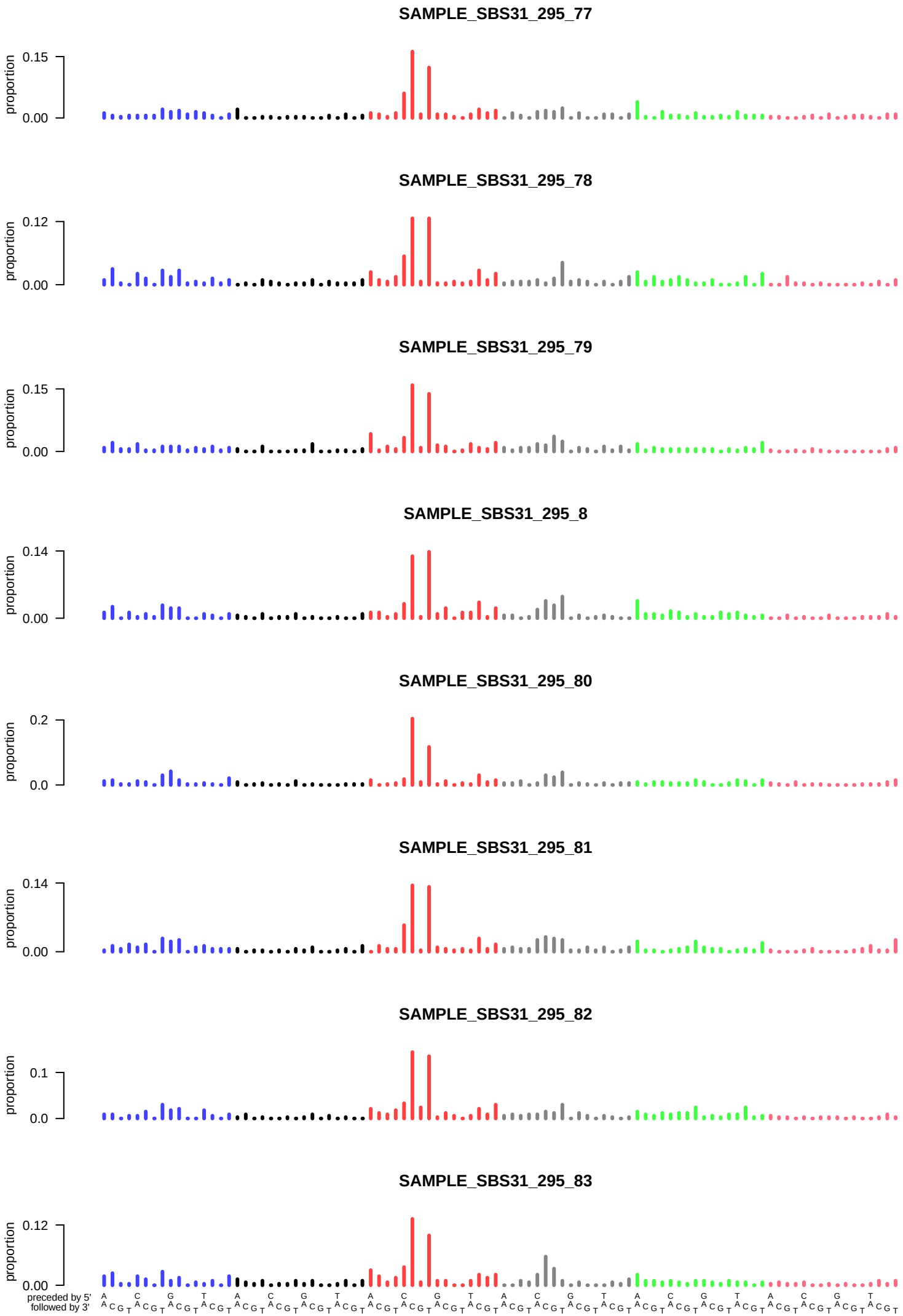
followed by 3'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SAMPLE_SBS31_295_82
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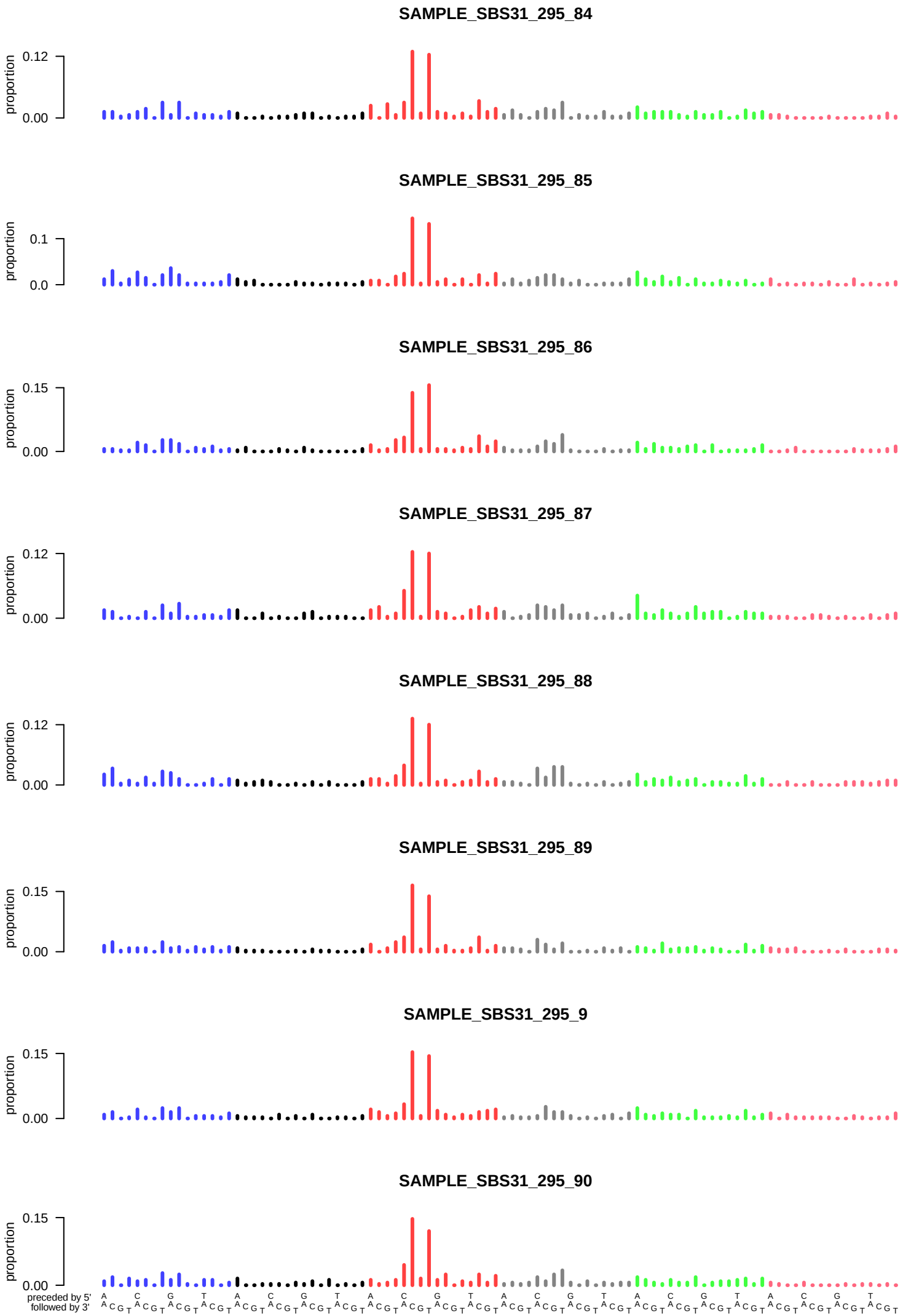
followed by 3'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SAMPLE_SBS31_295_90
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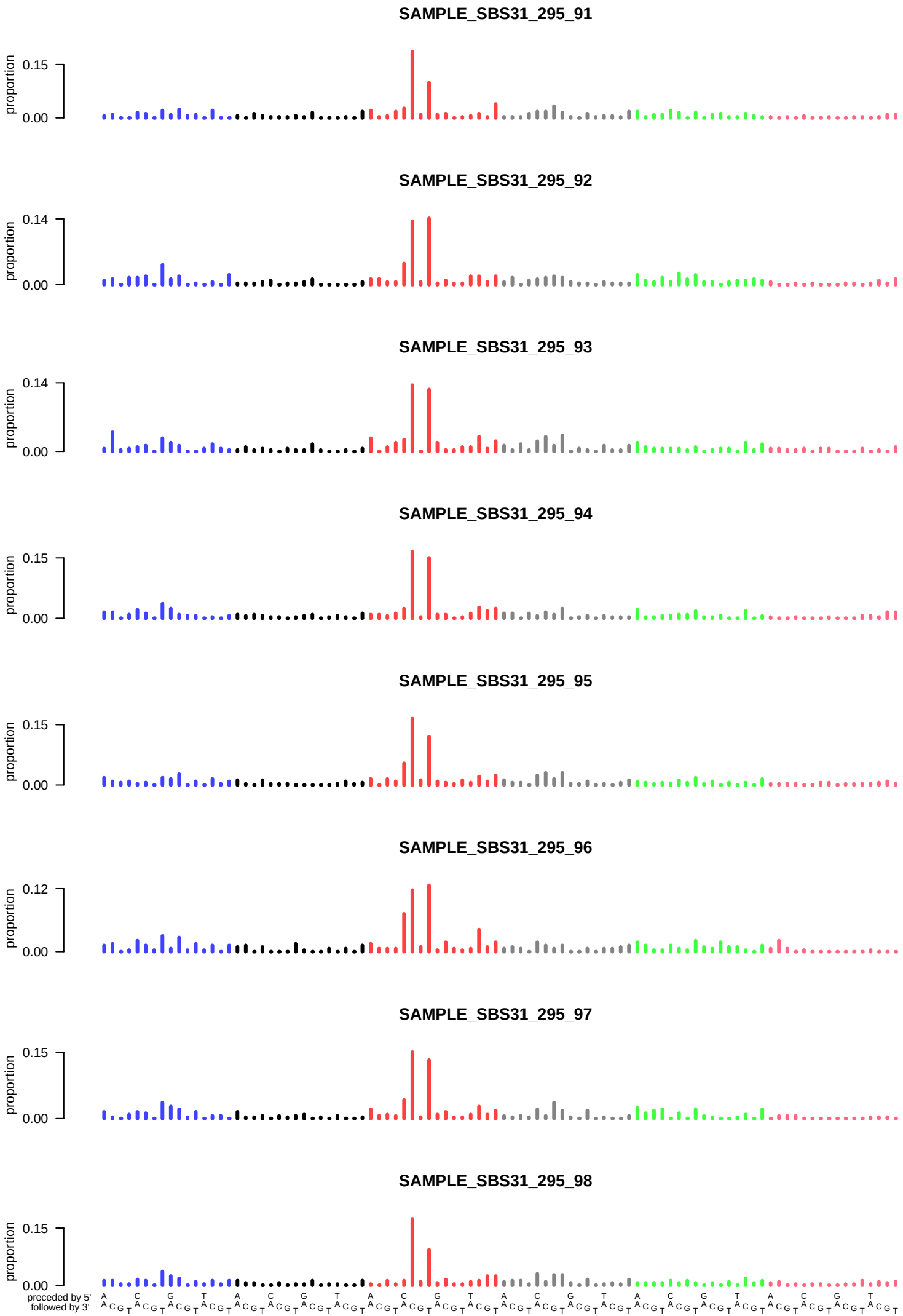
followed by 3'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followed by 3'
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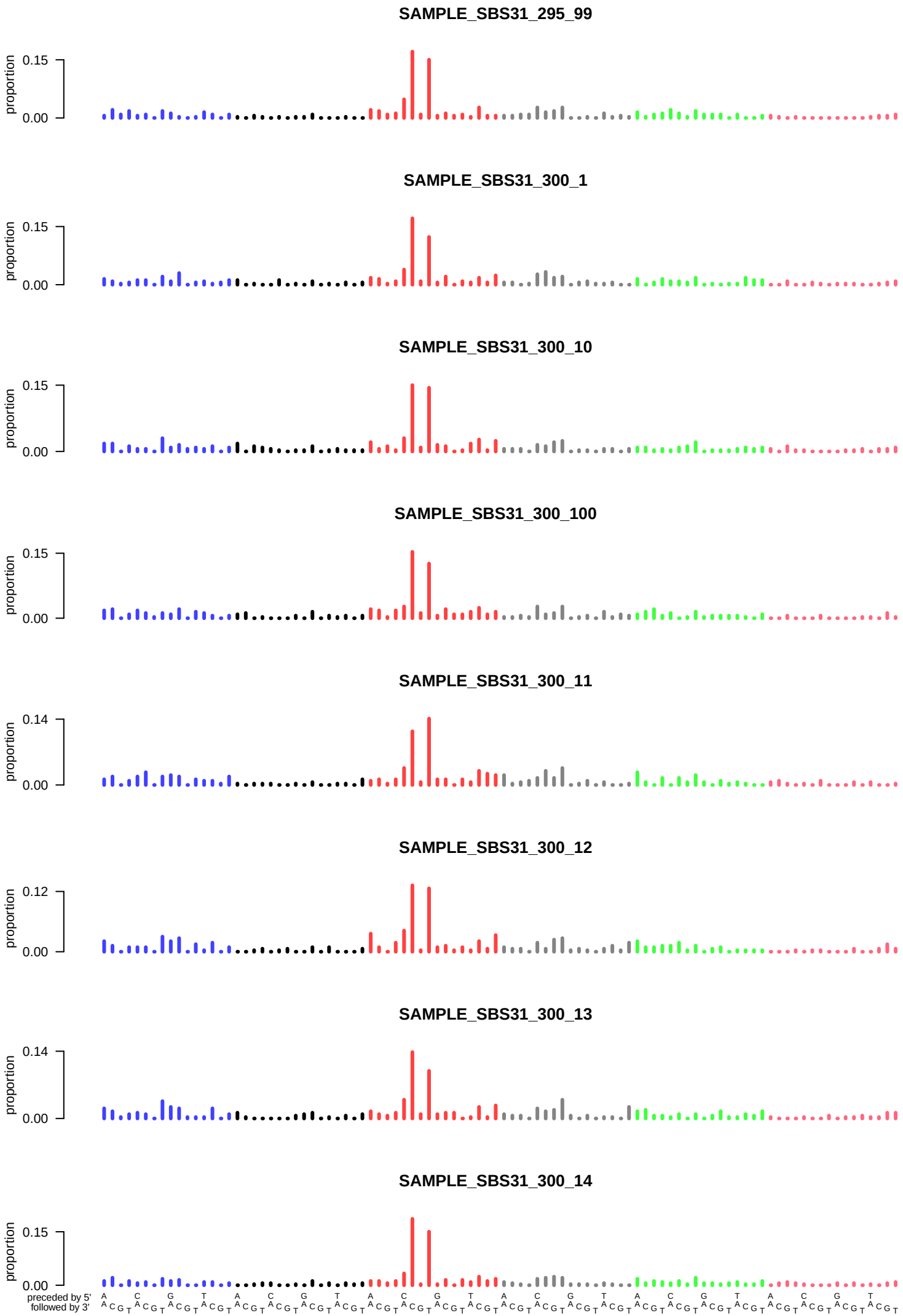
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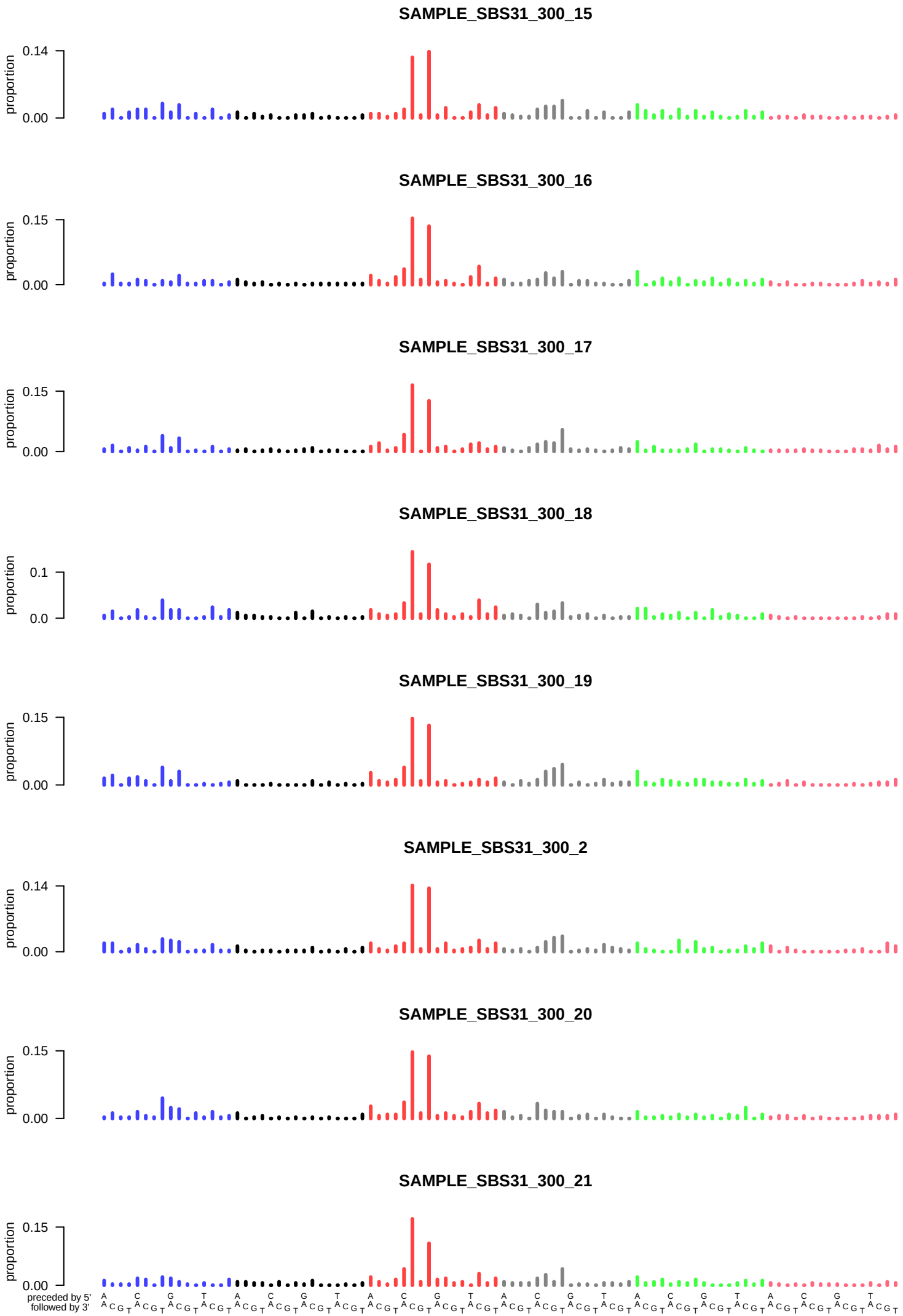
followed by 3'
A C G T A C G T A C G T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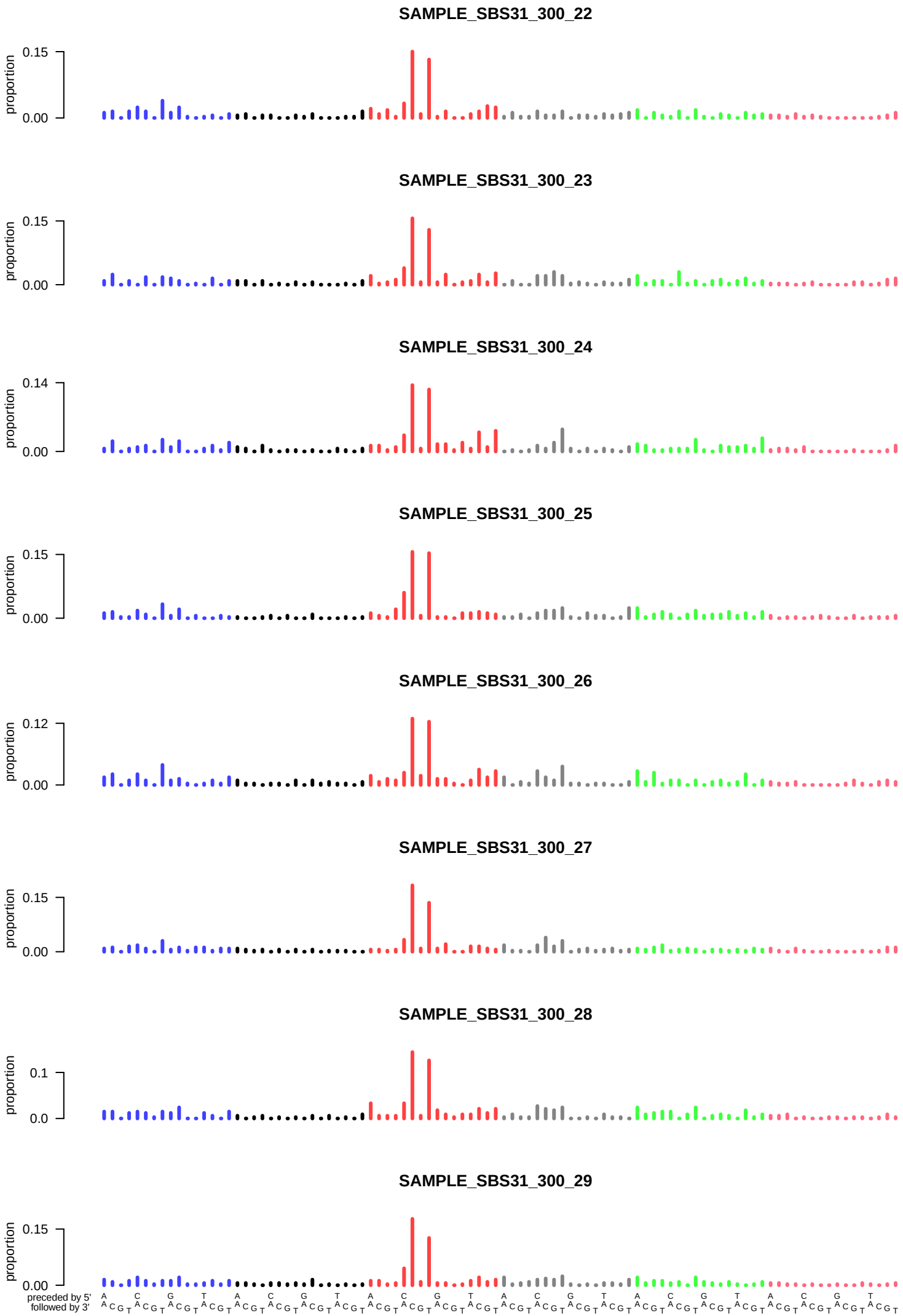
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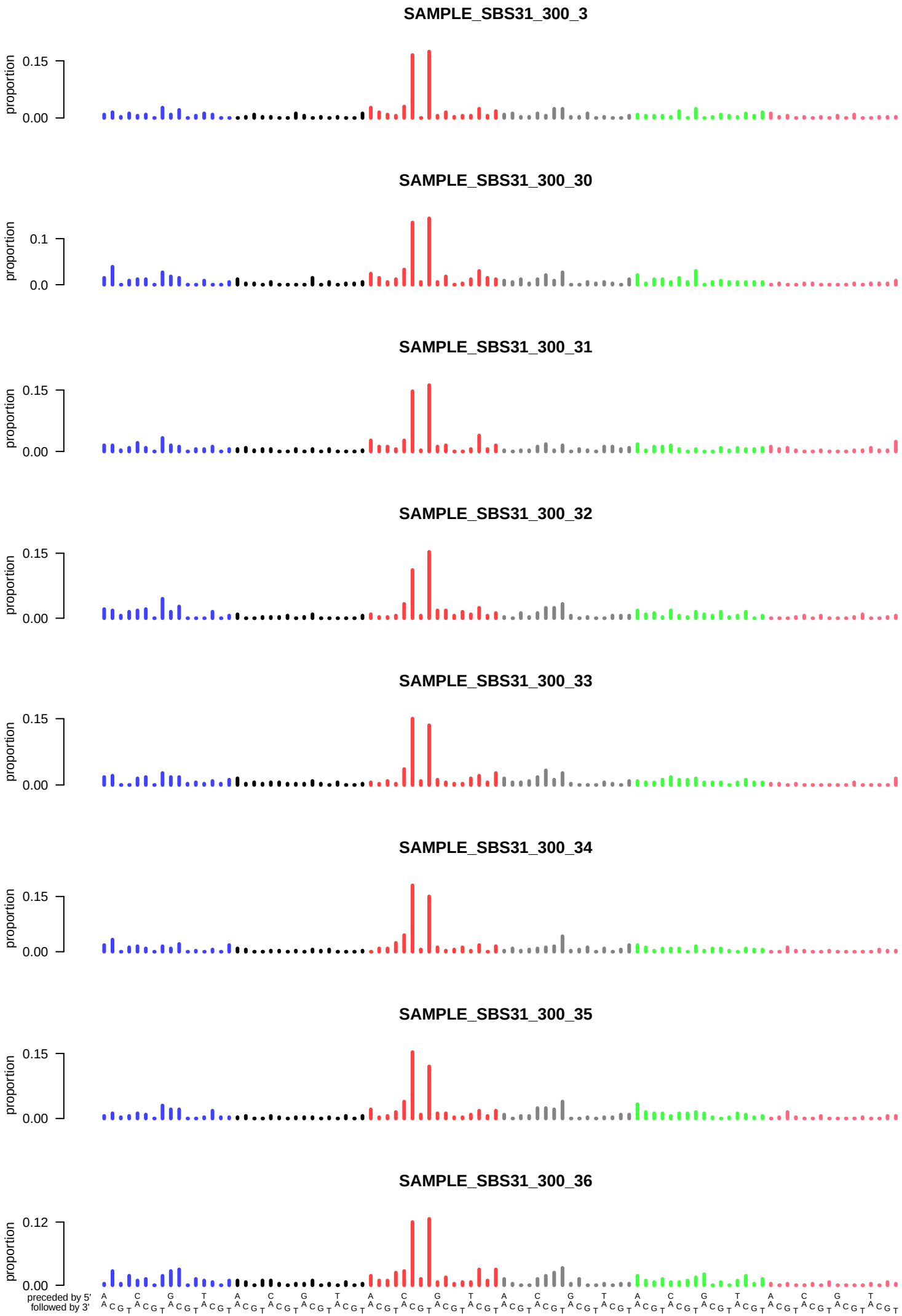
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SAMPLE_SBS31_300_35
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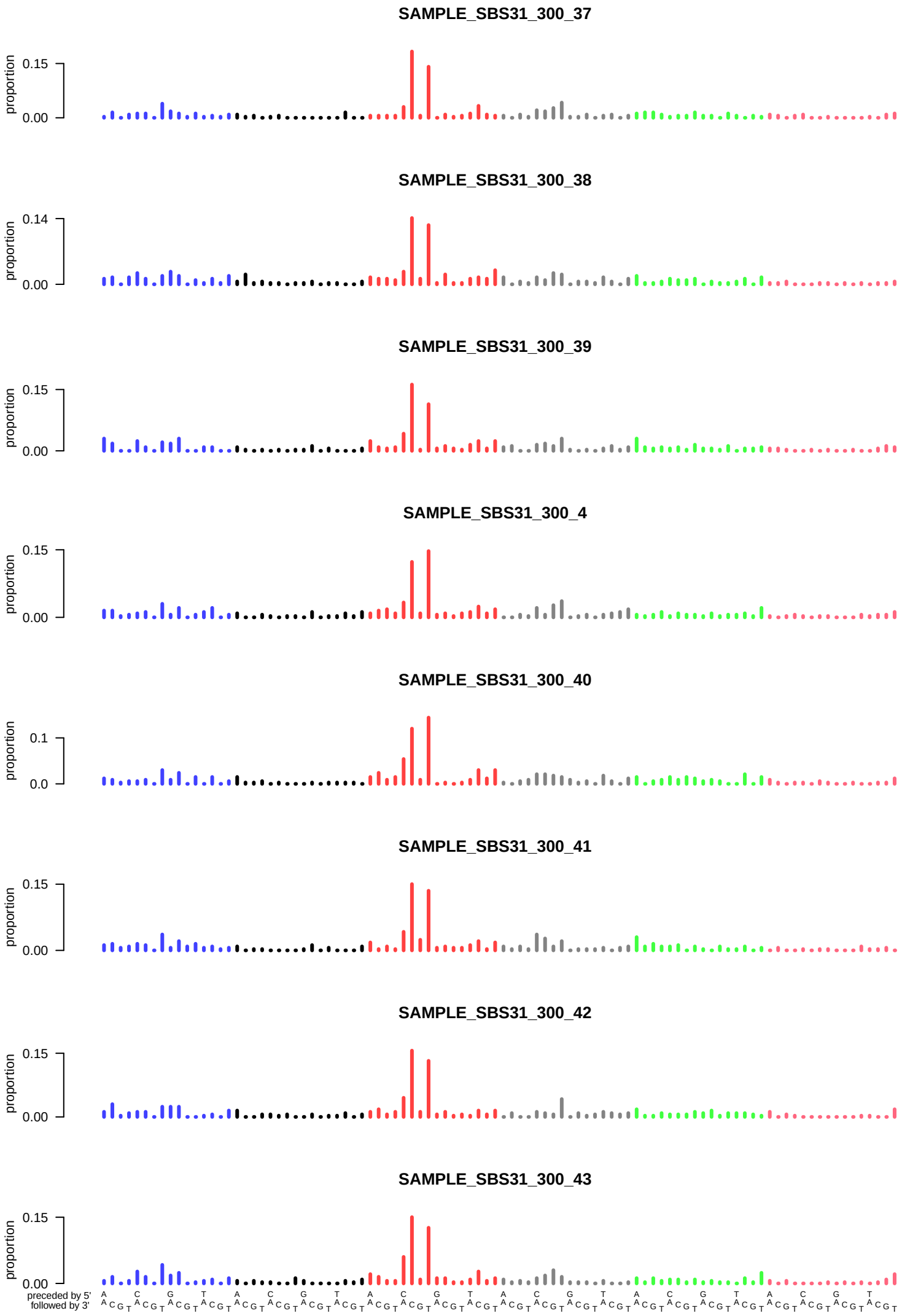
followed by 3'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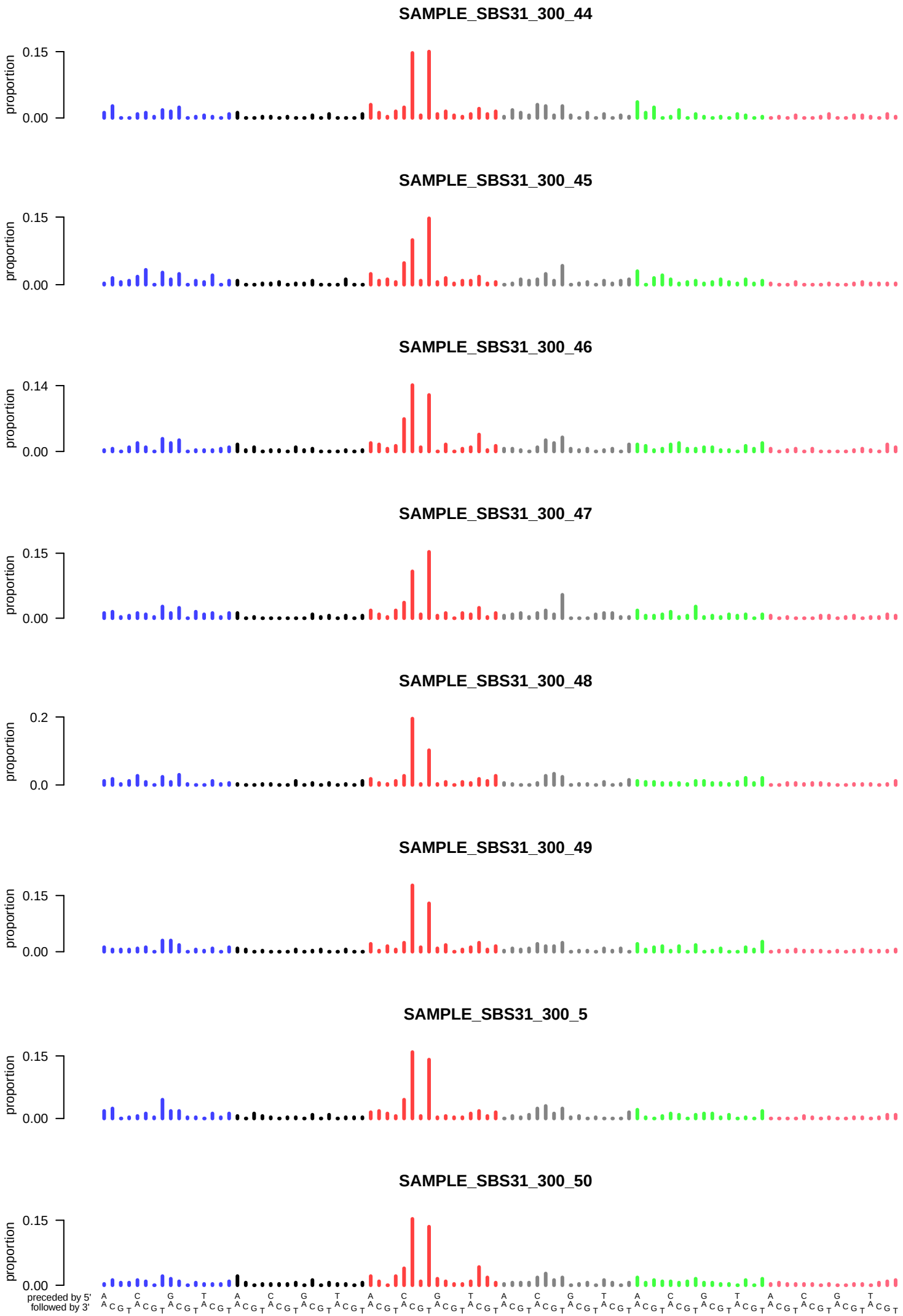
followed by 3'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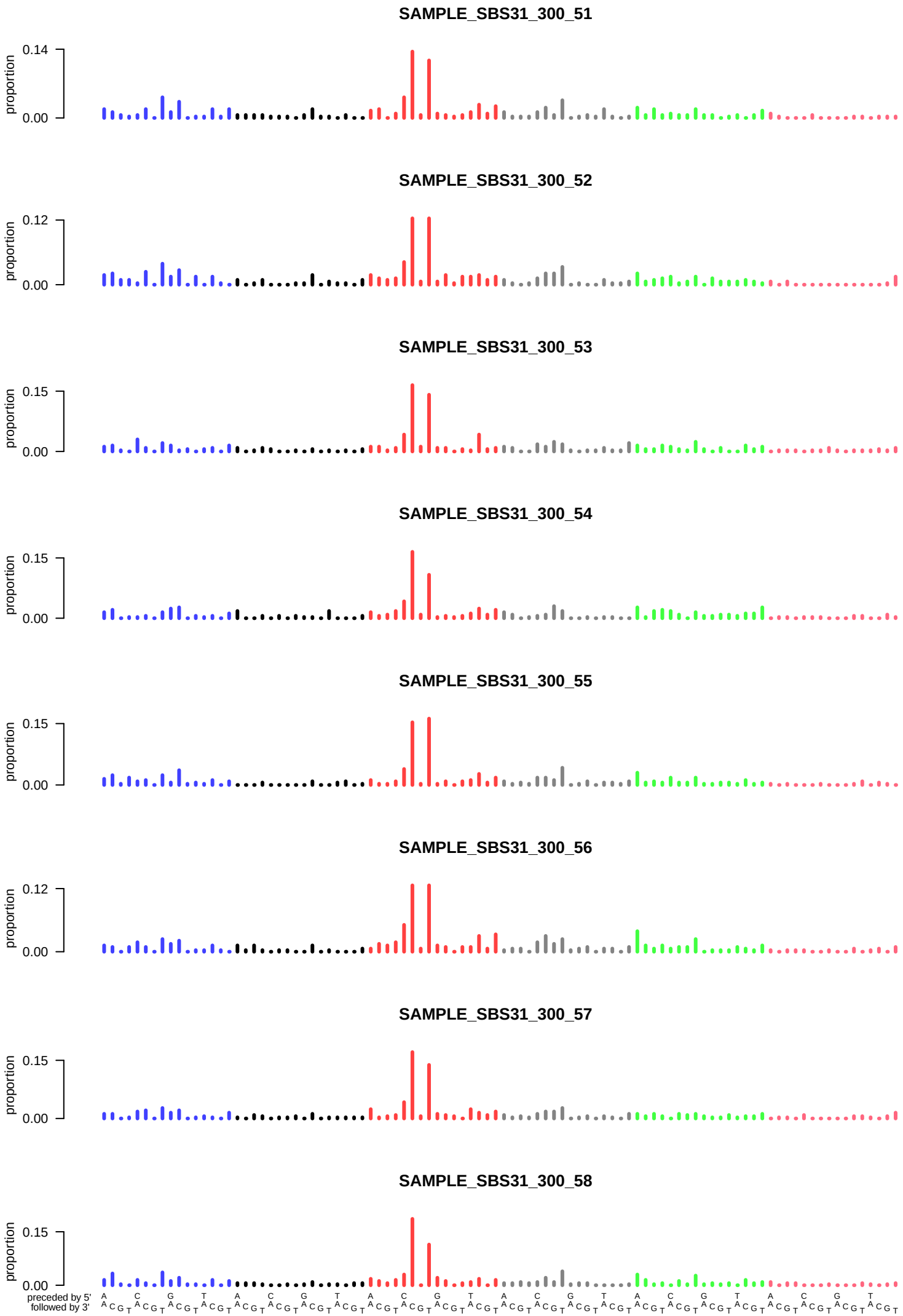
followed by 3'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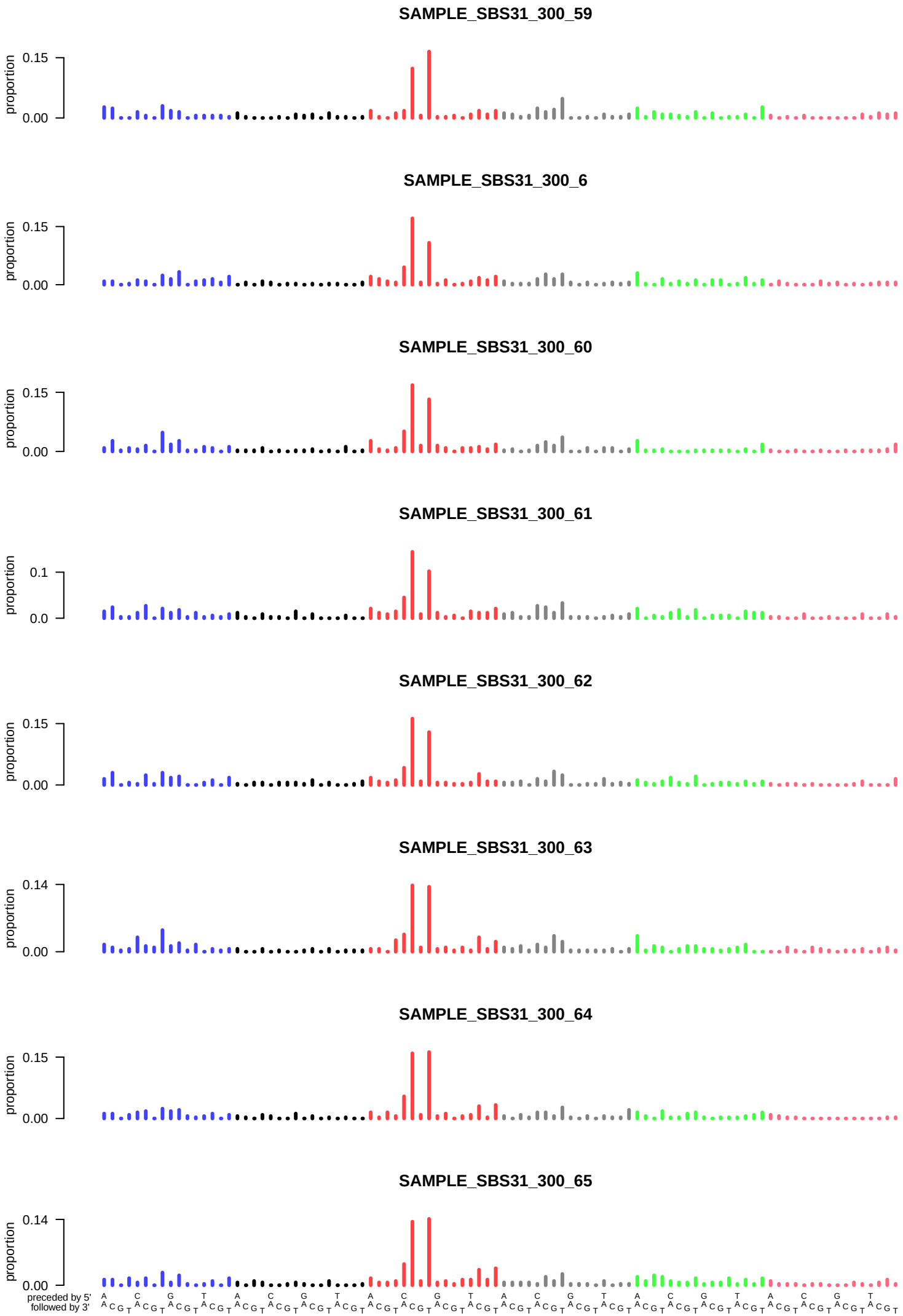
followed by 3'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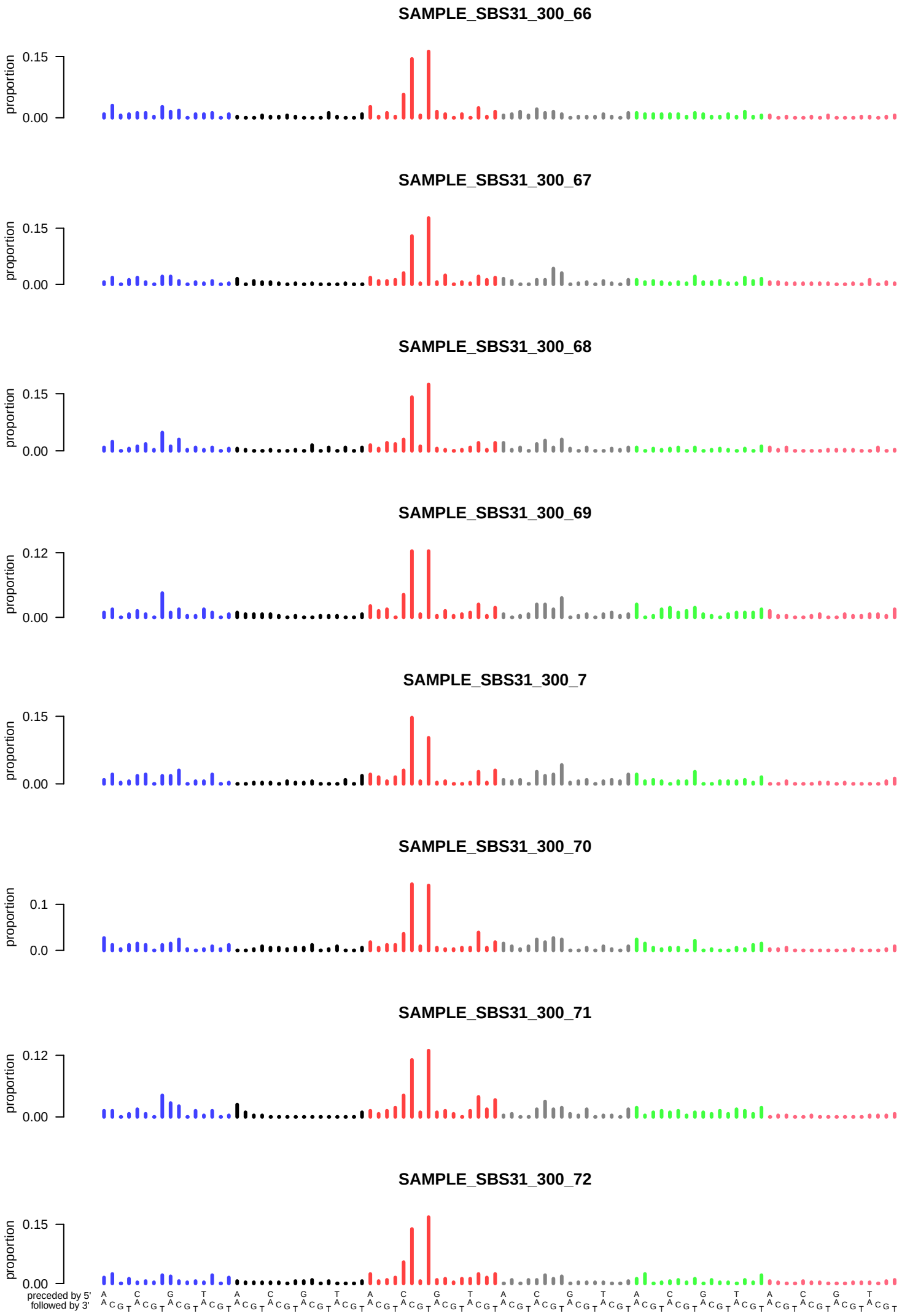
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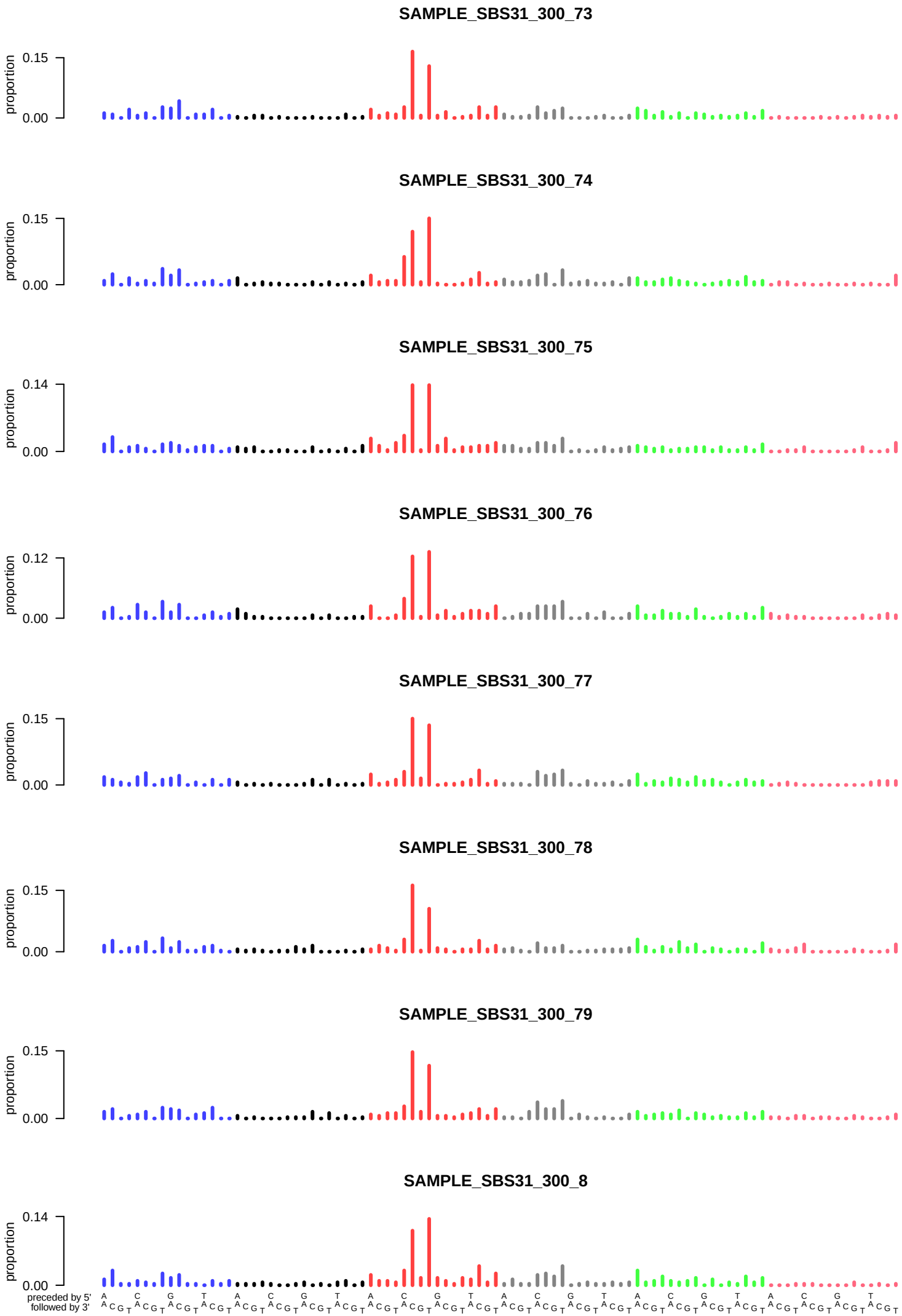
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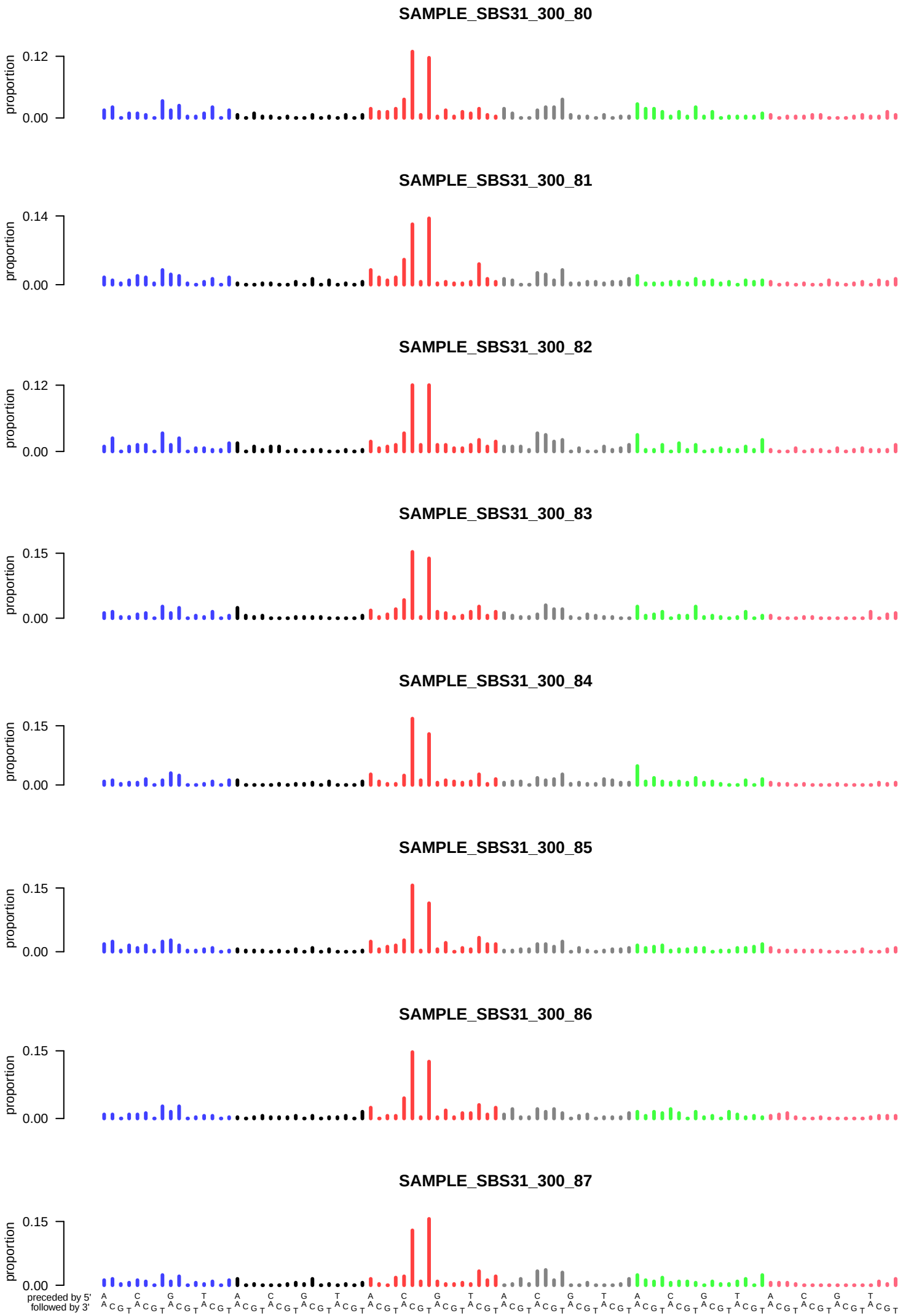
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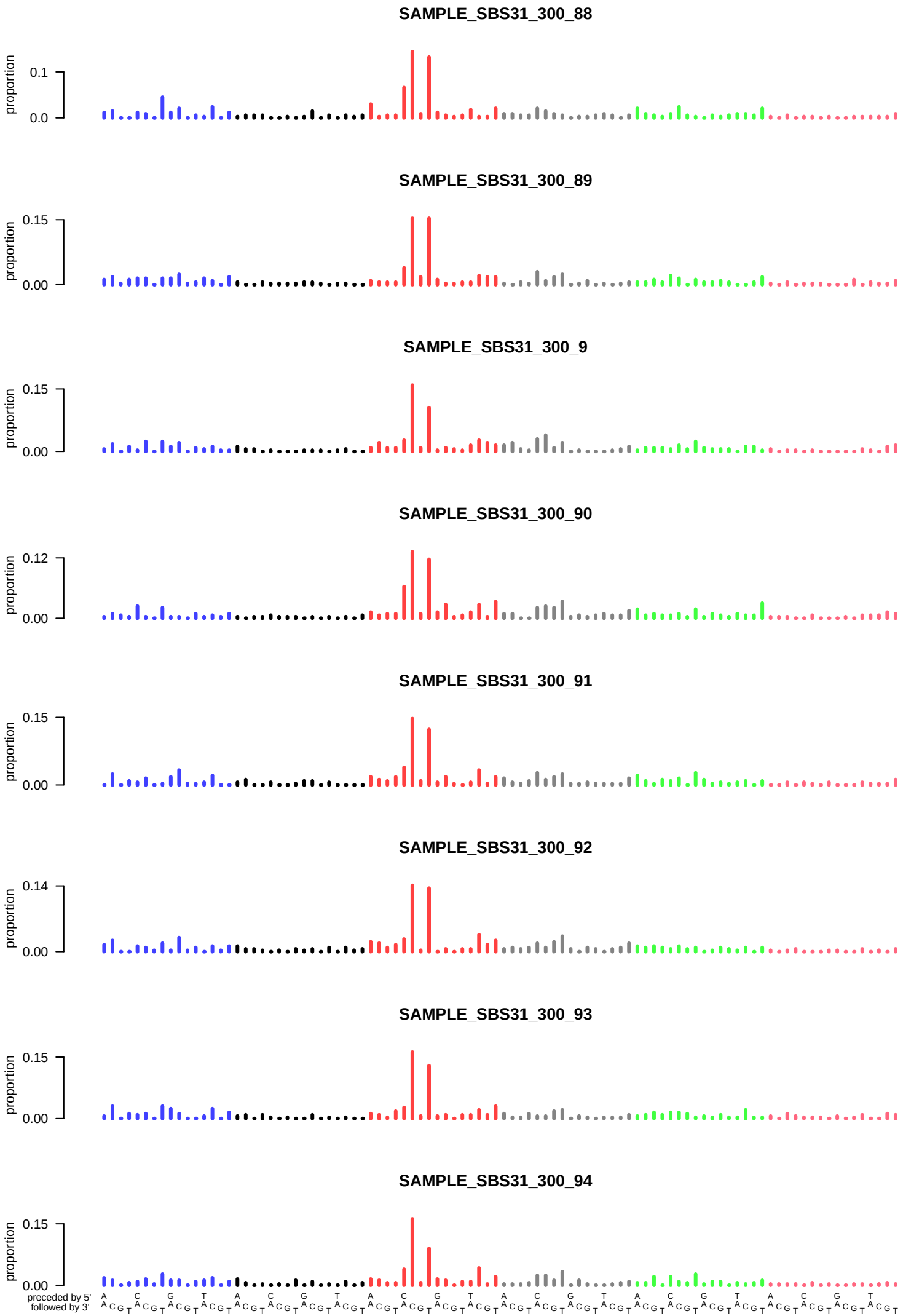
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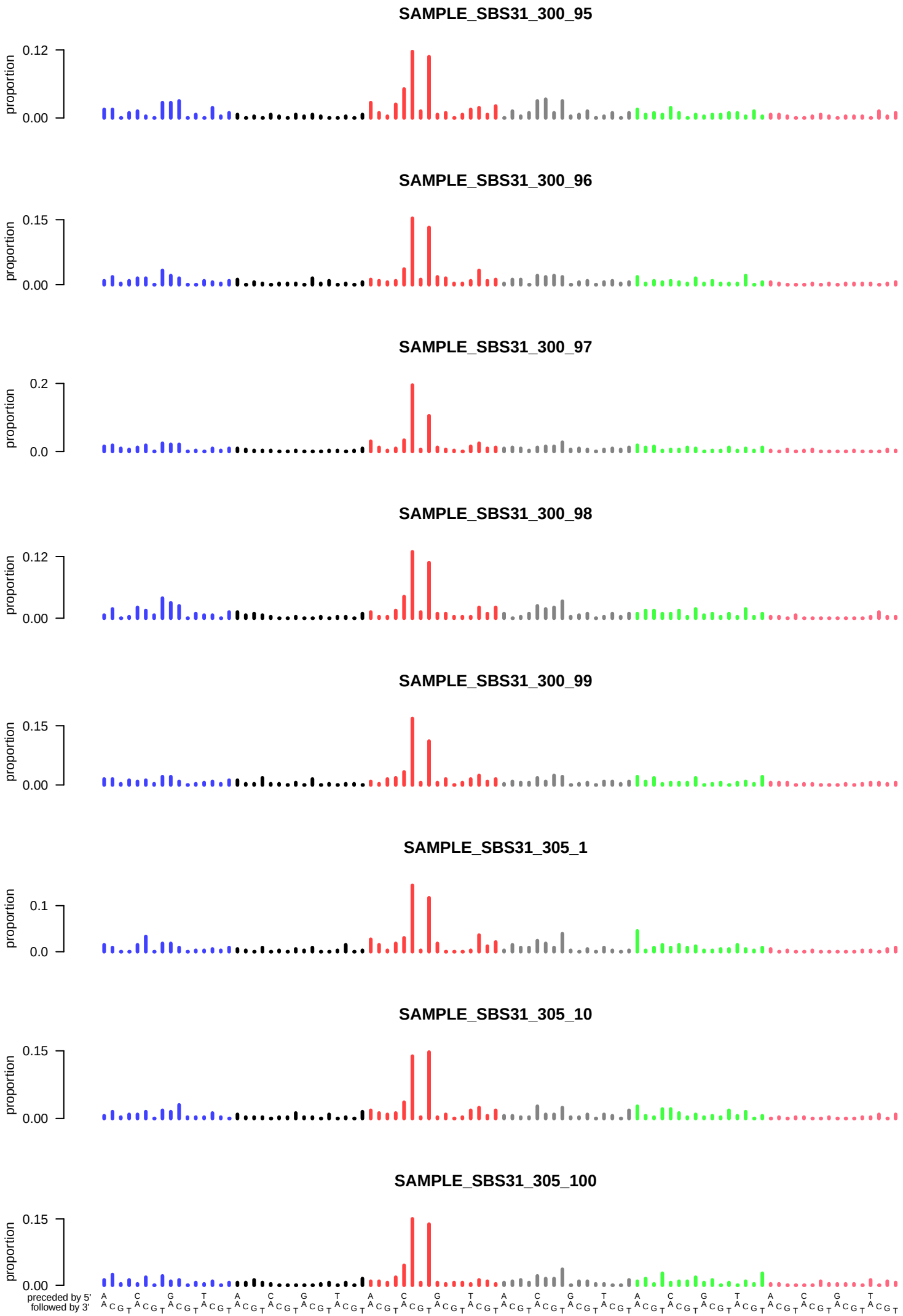
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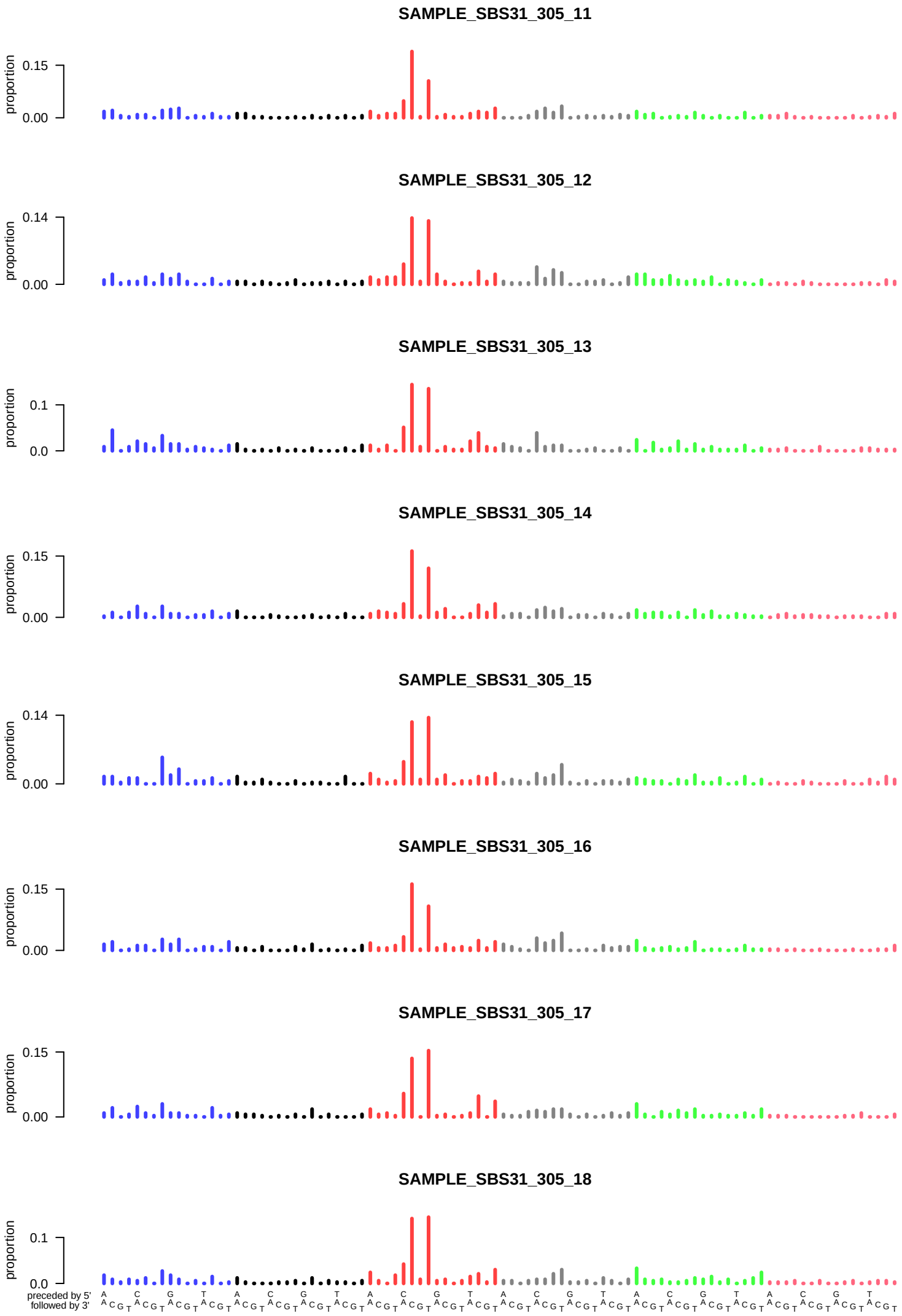
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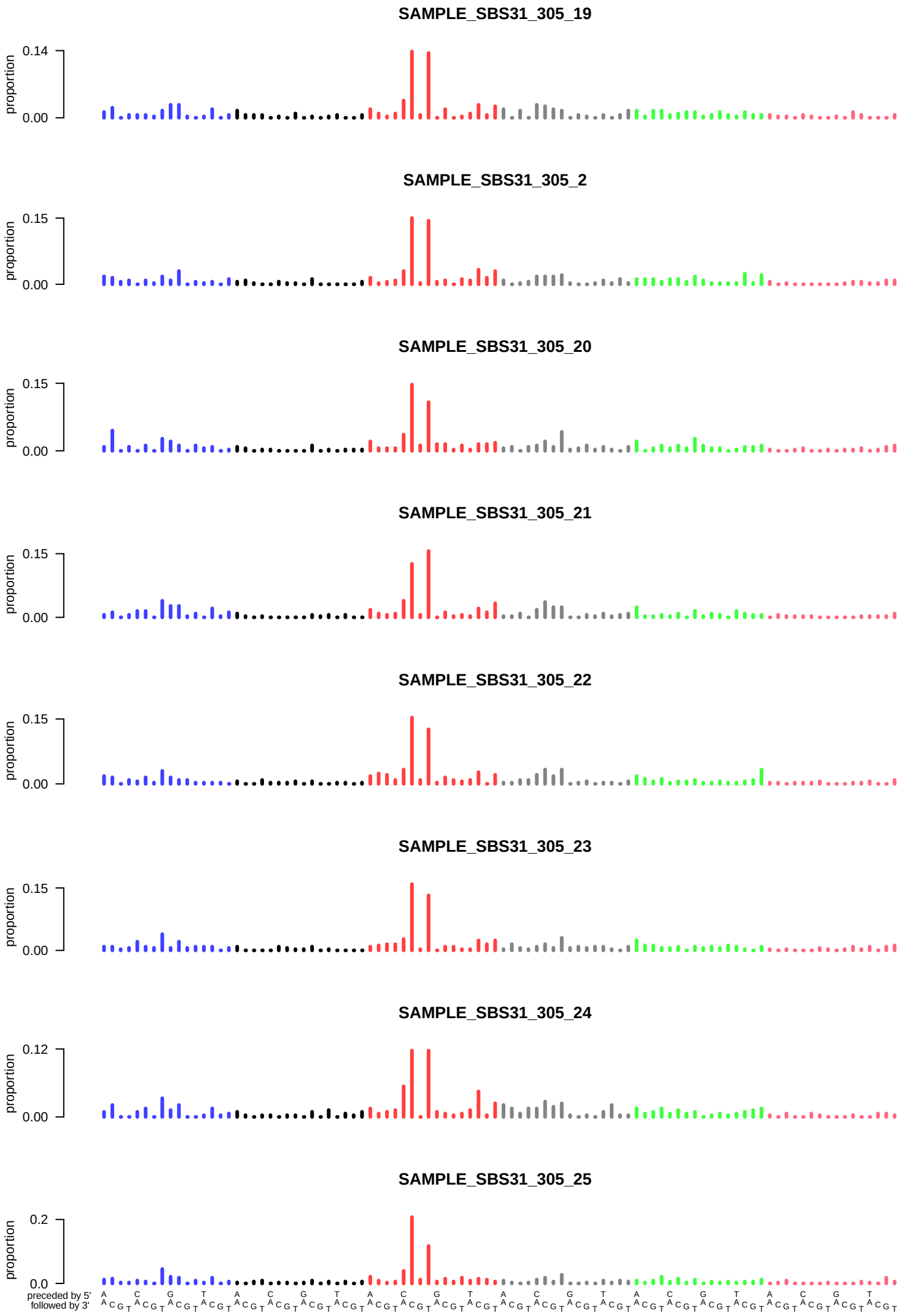
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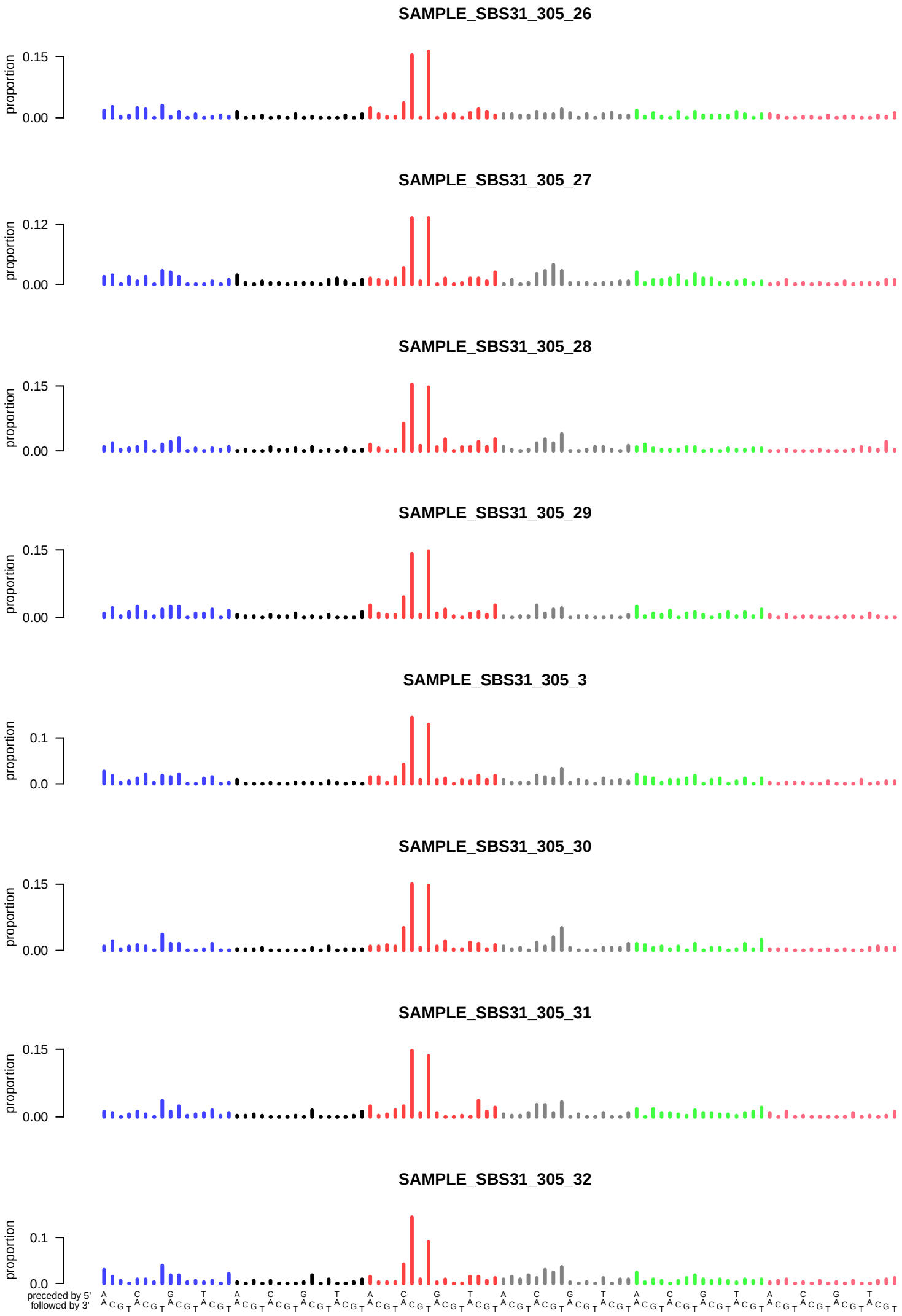
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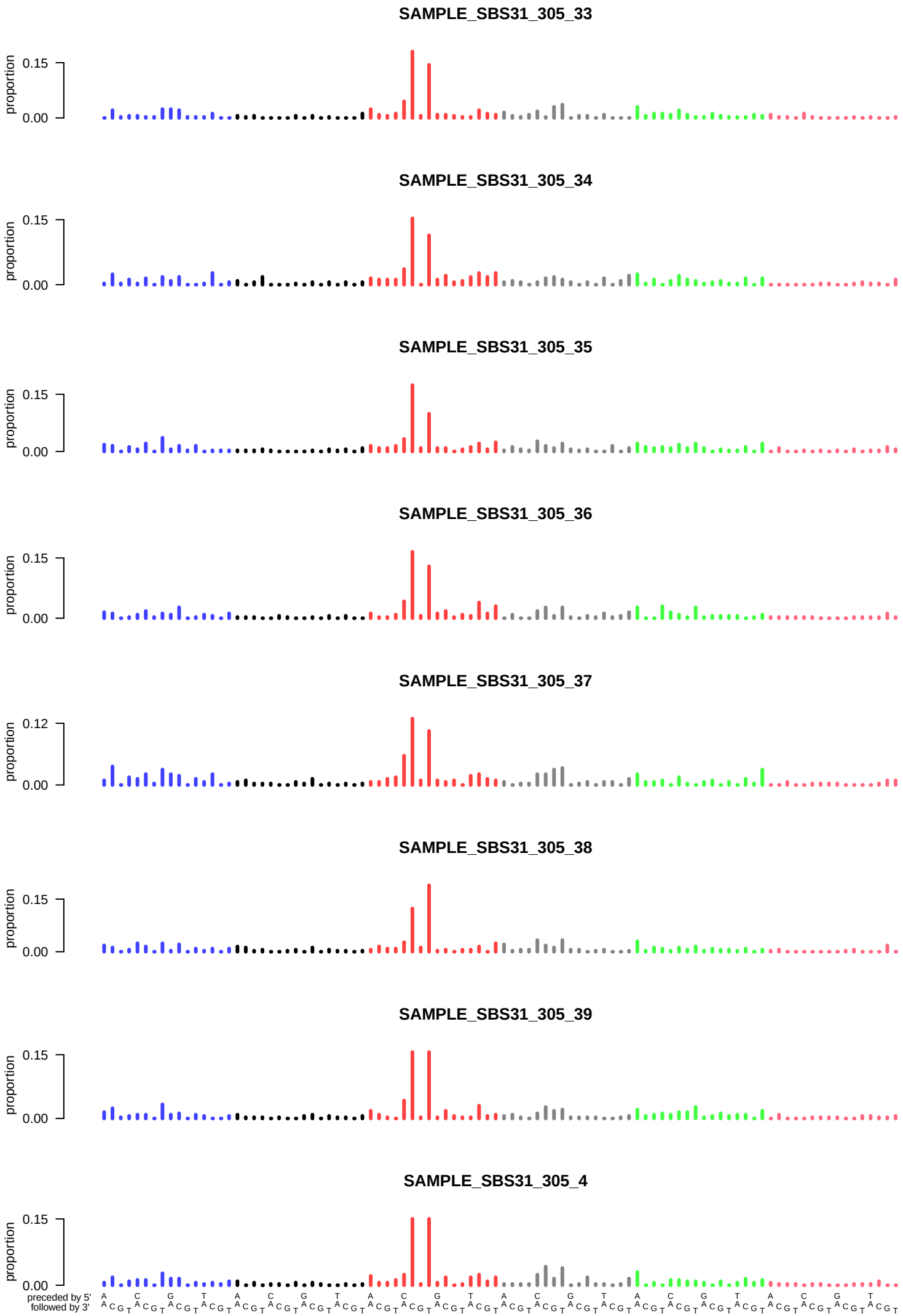
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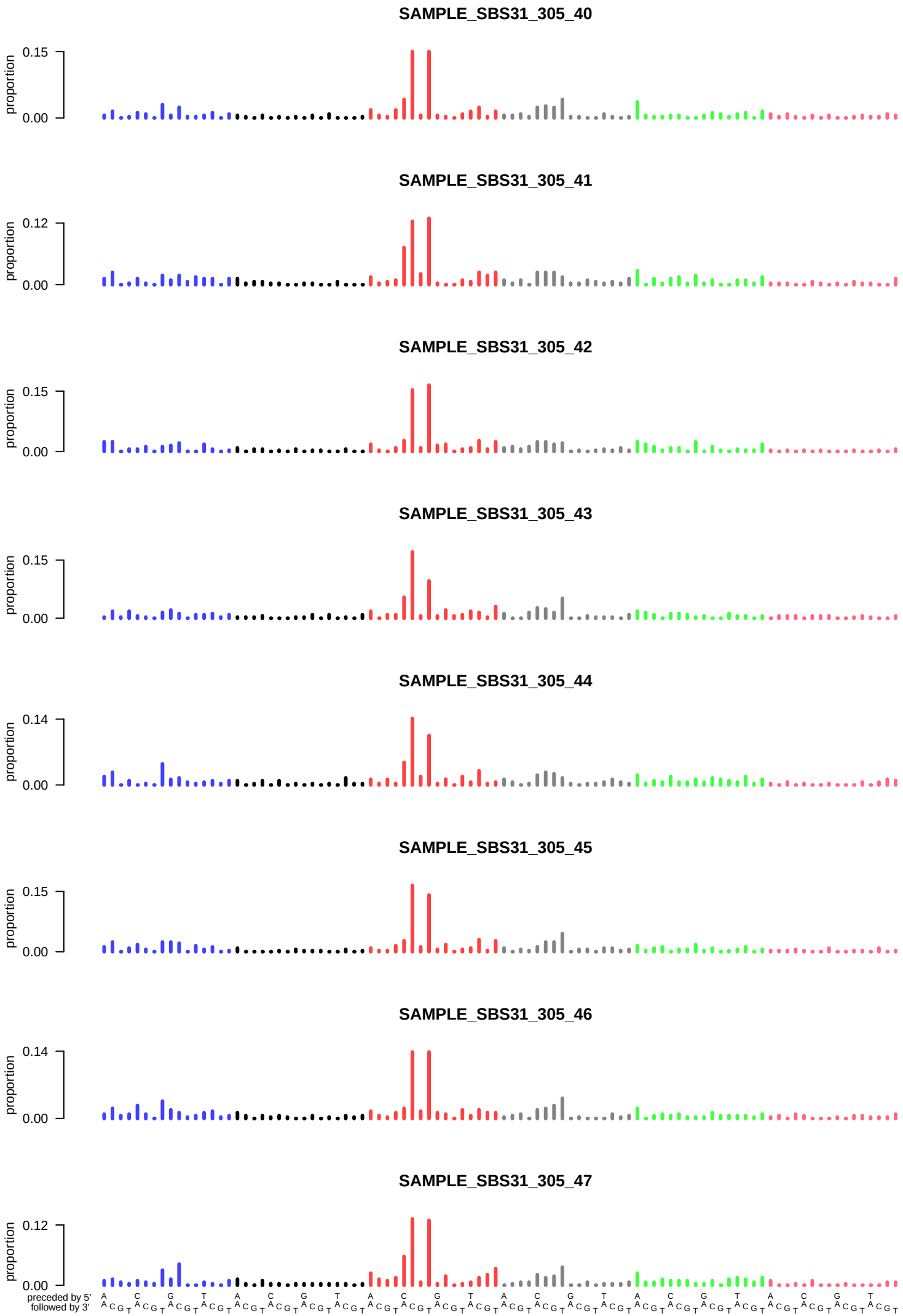
followed by 3'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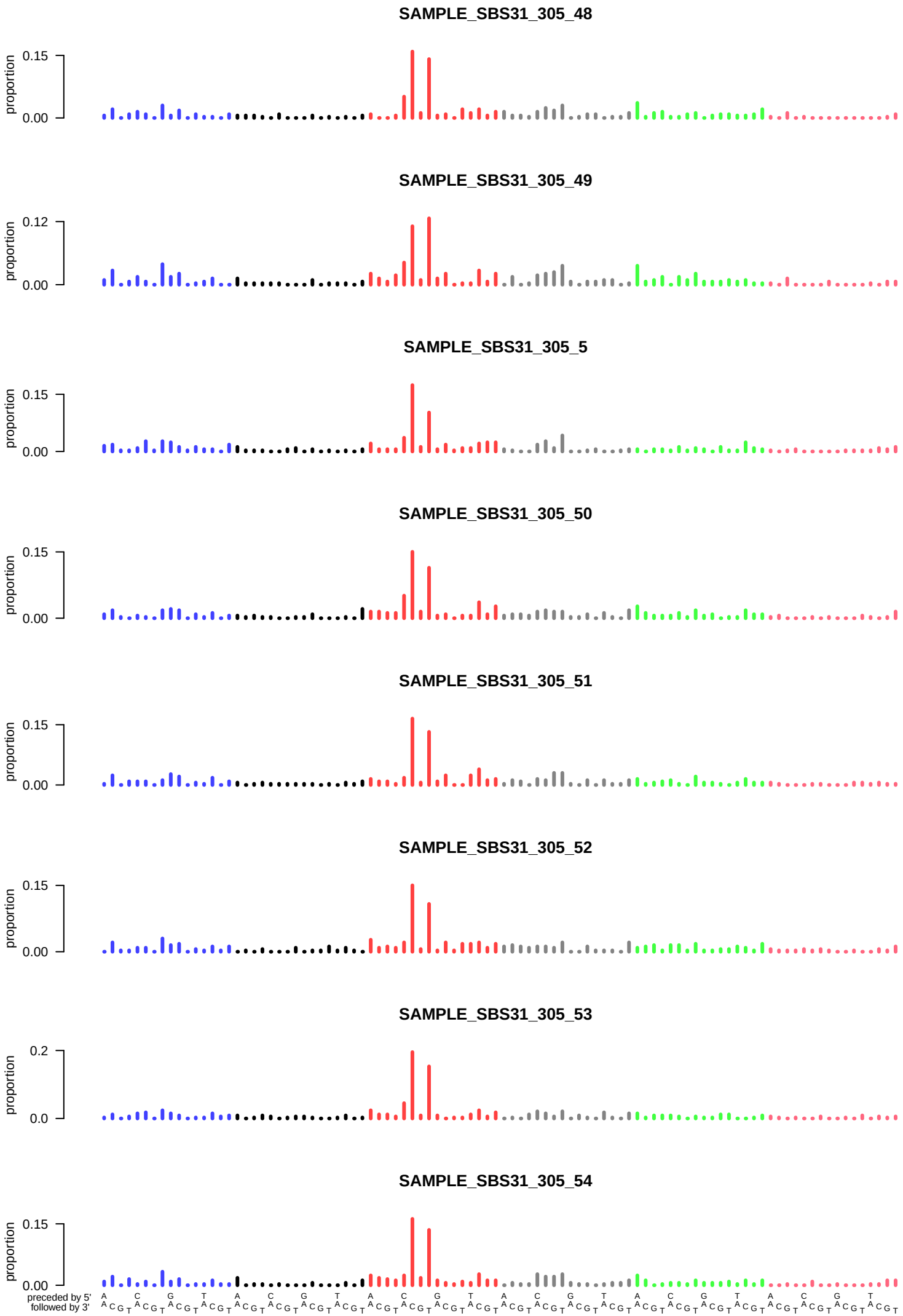
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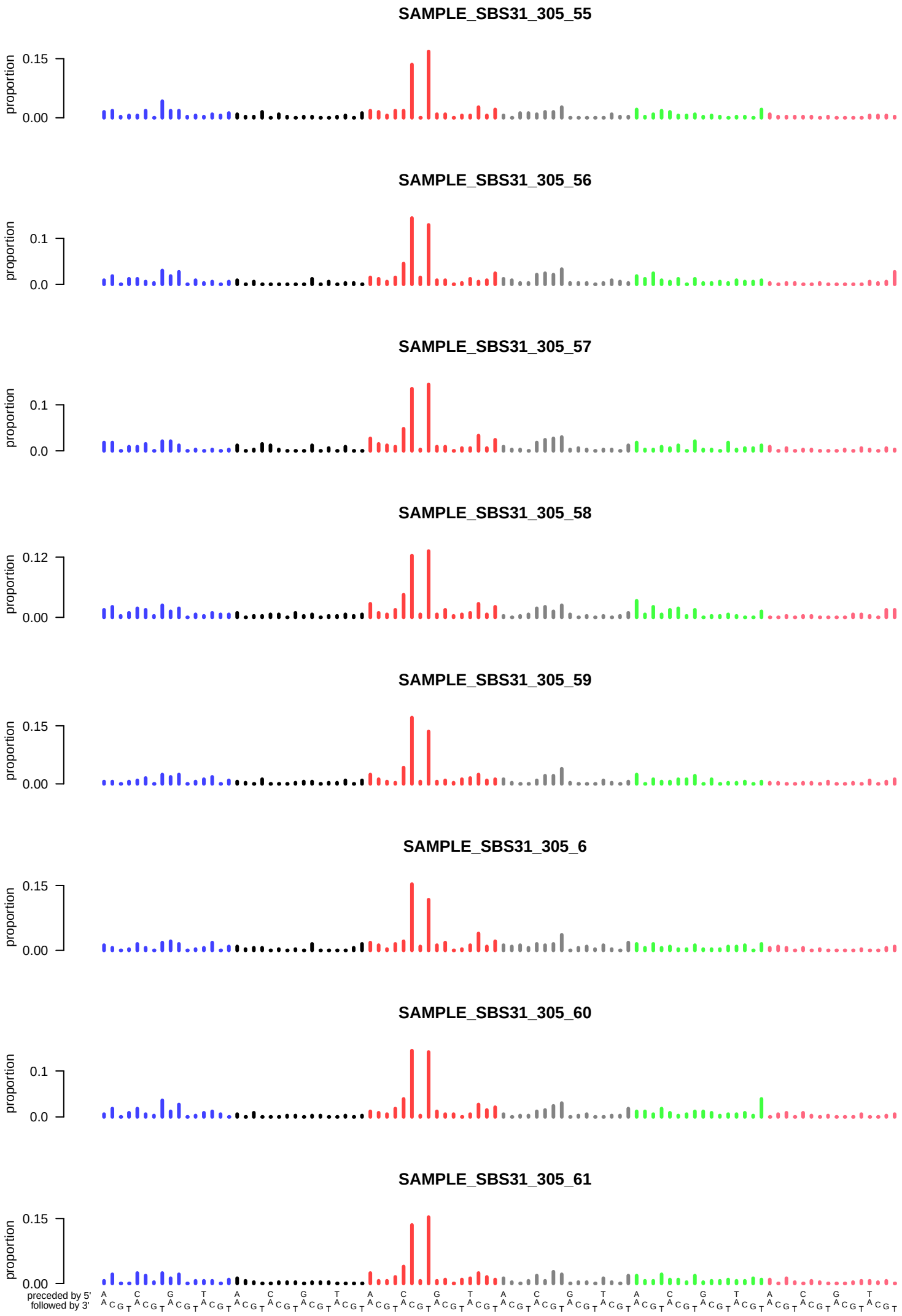
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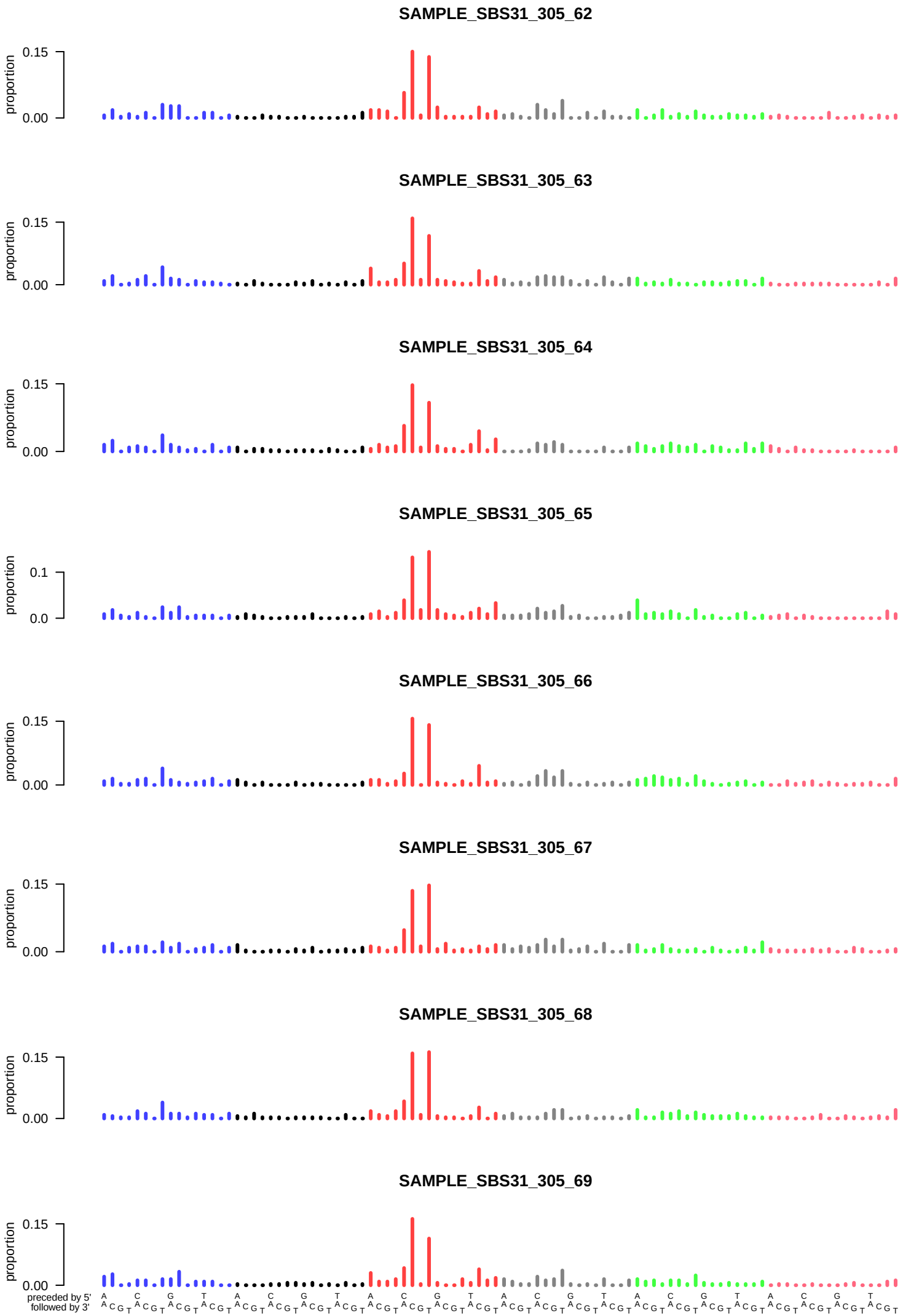
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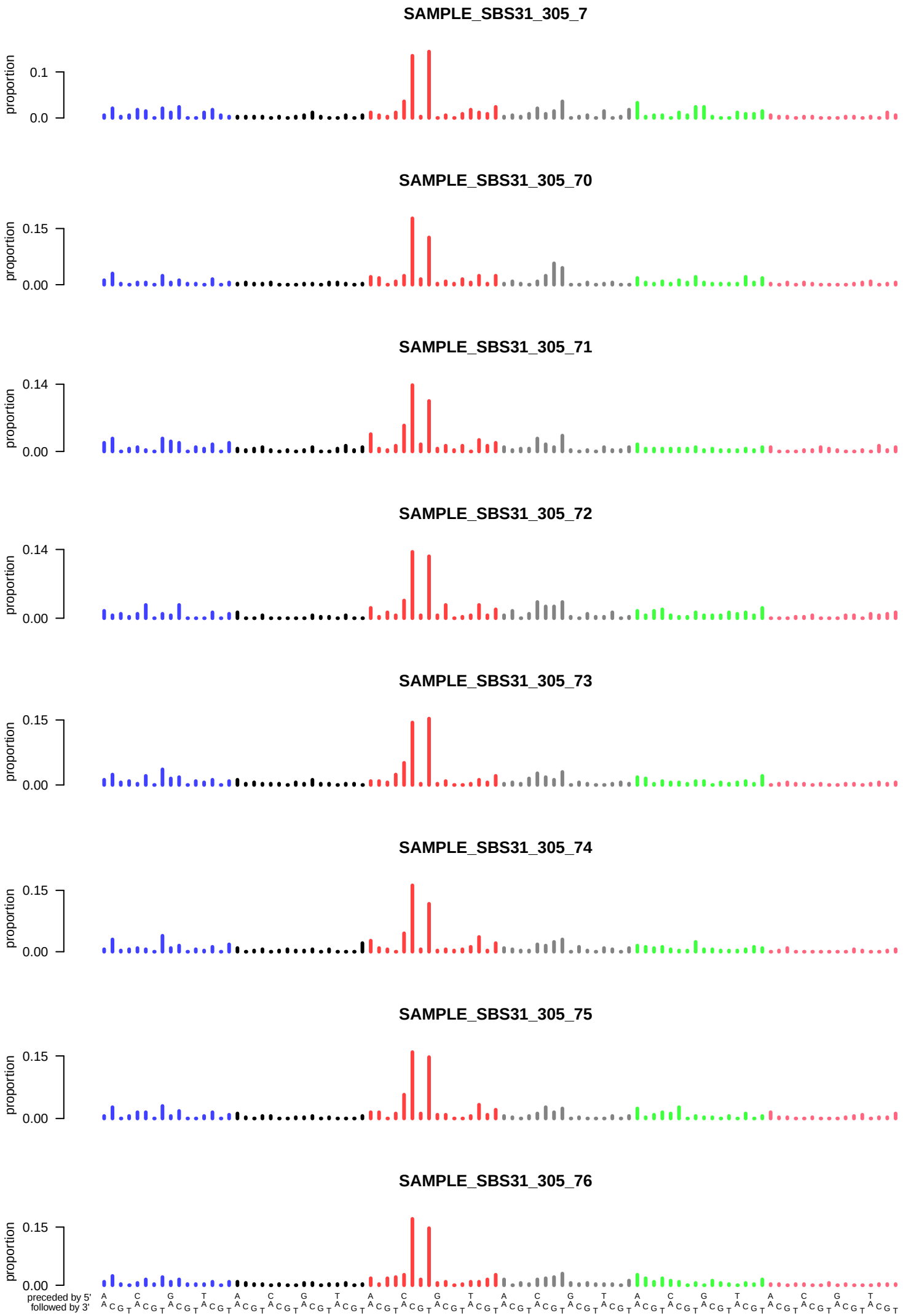
followed by 3'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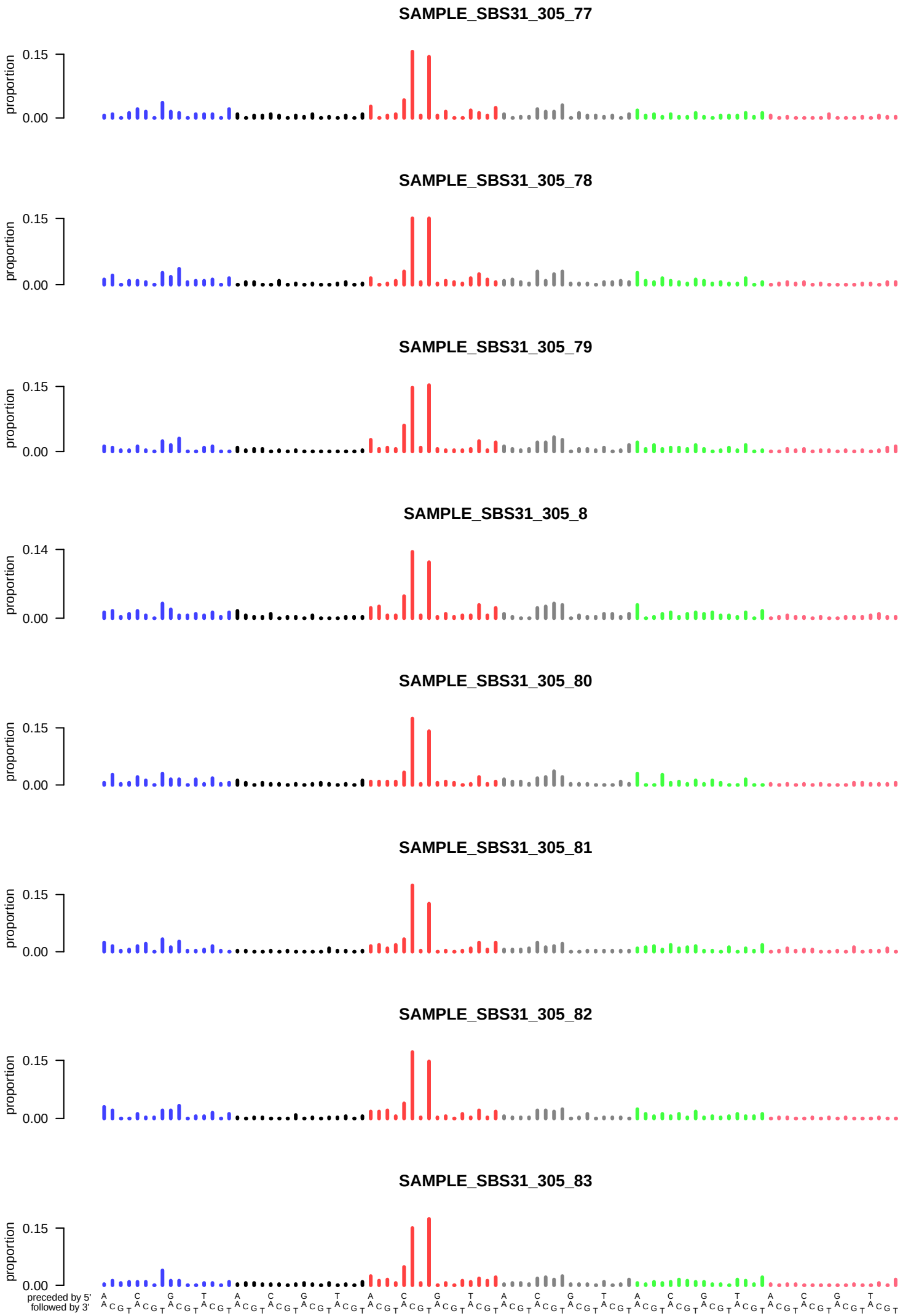
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SAMPLE_SBS31_305_81
SAMPLE_SBS31_305_82
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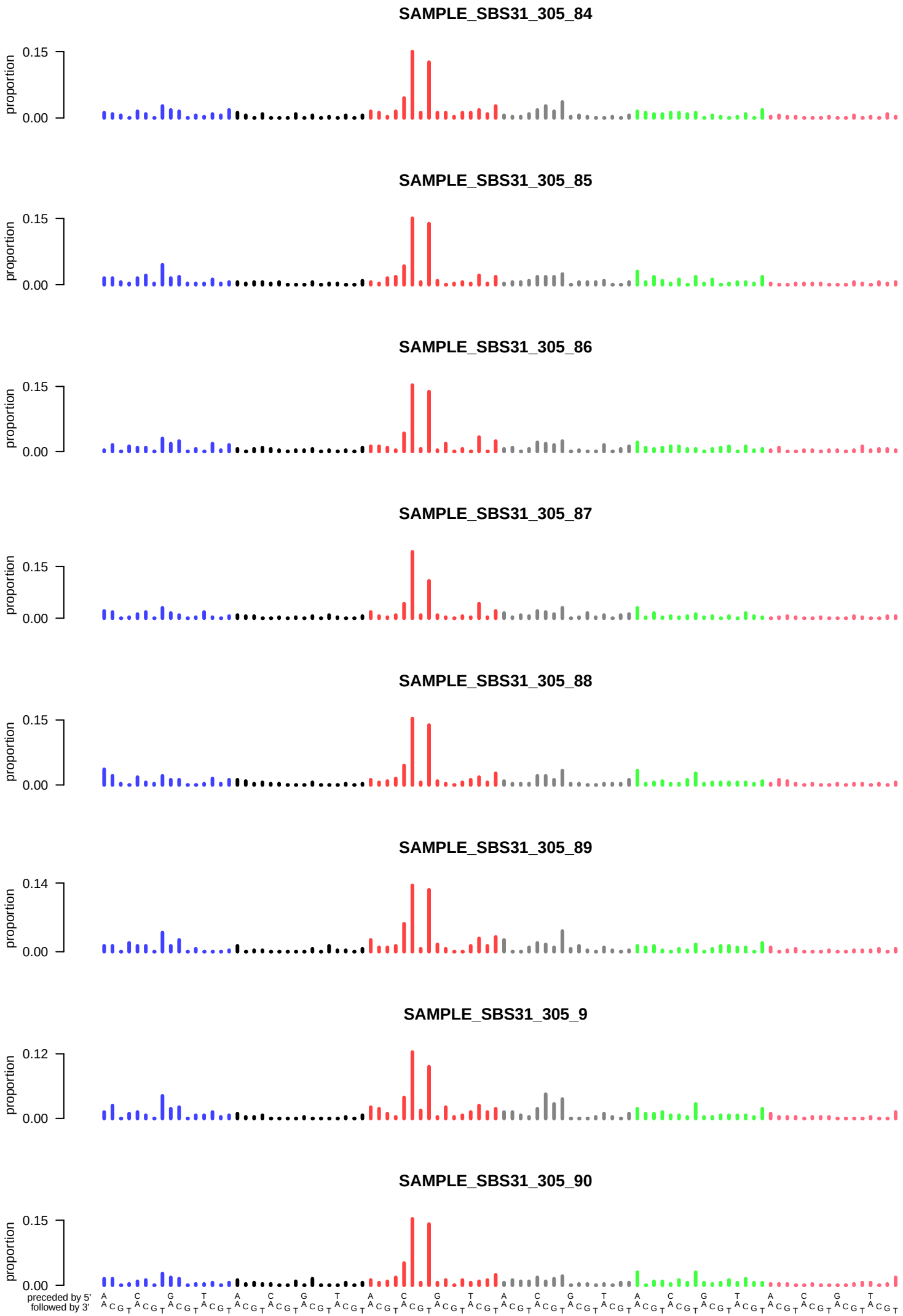
preceded by 5'
followed by 3'
A C G T A C G T A C G T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SAMPLE_SBS31_305_89
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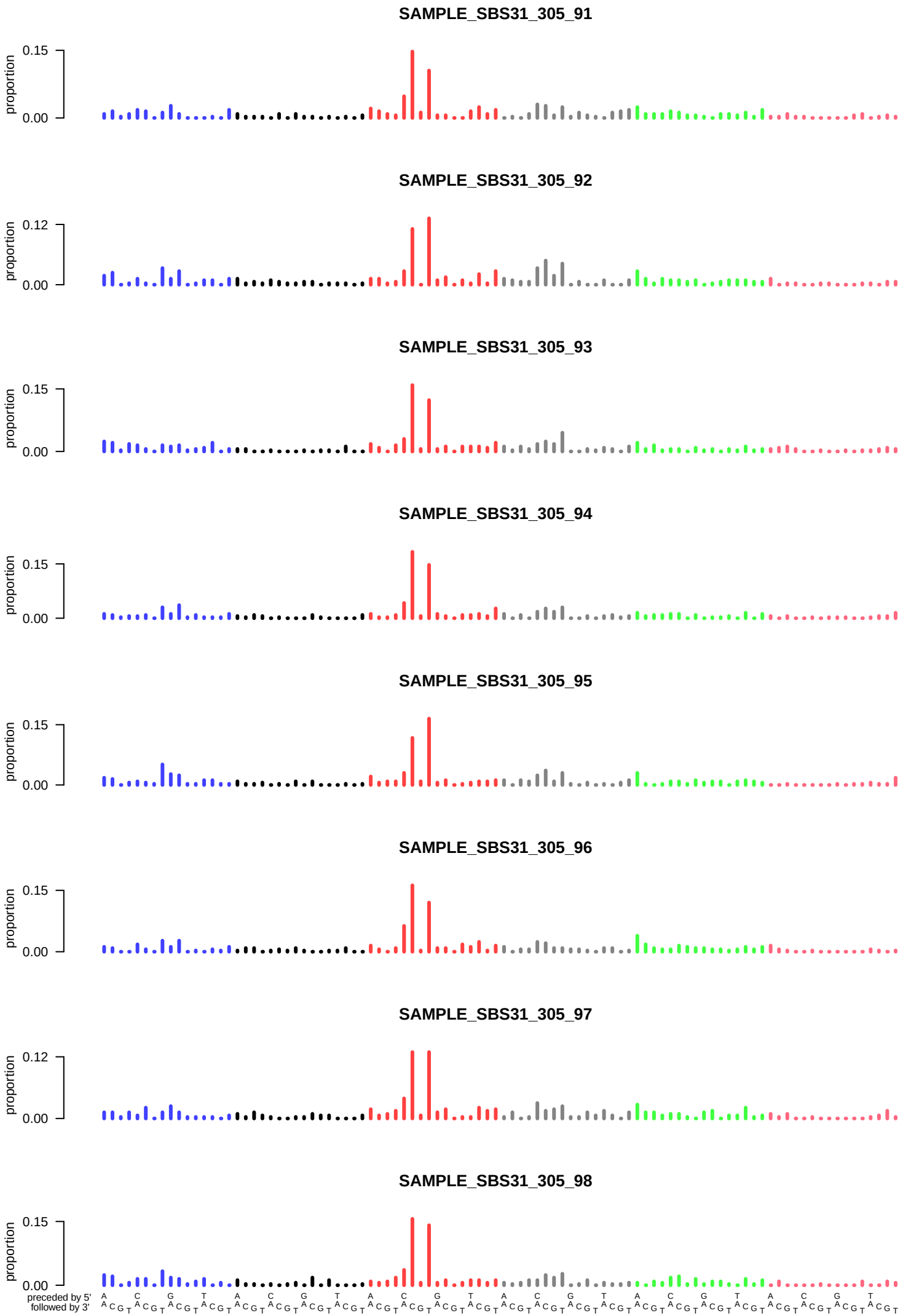
followed by 3'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SAMPLE_SBS31_305_97
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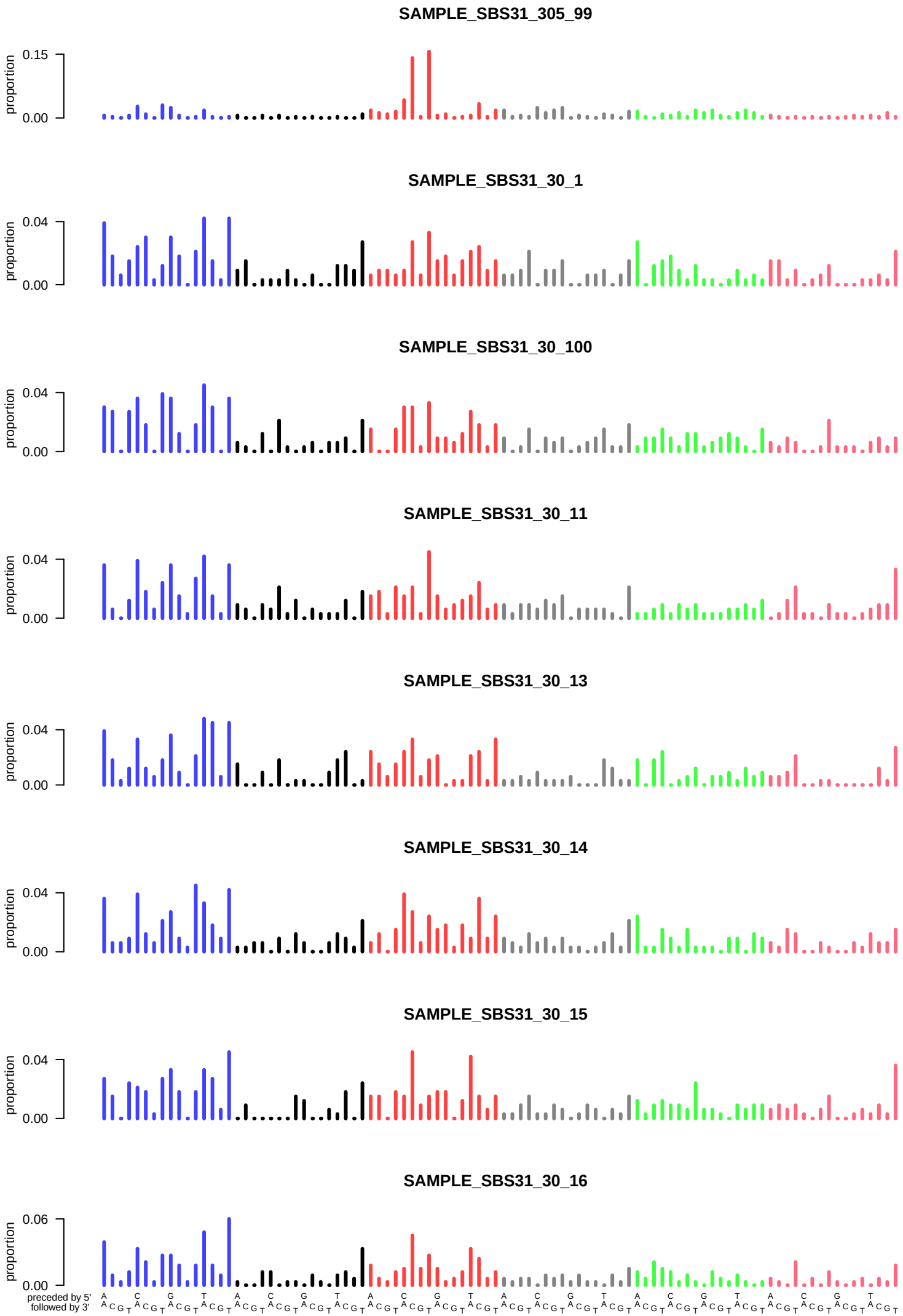
followed by 3'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SAMPLE_SBS31_30_11
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SAMPLE_SBS31_30_13
proportion
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SAMPLE_SBS31_30_14
proportion
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SAMPLE_SBS31_30_15
proportion
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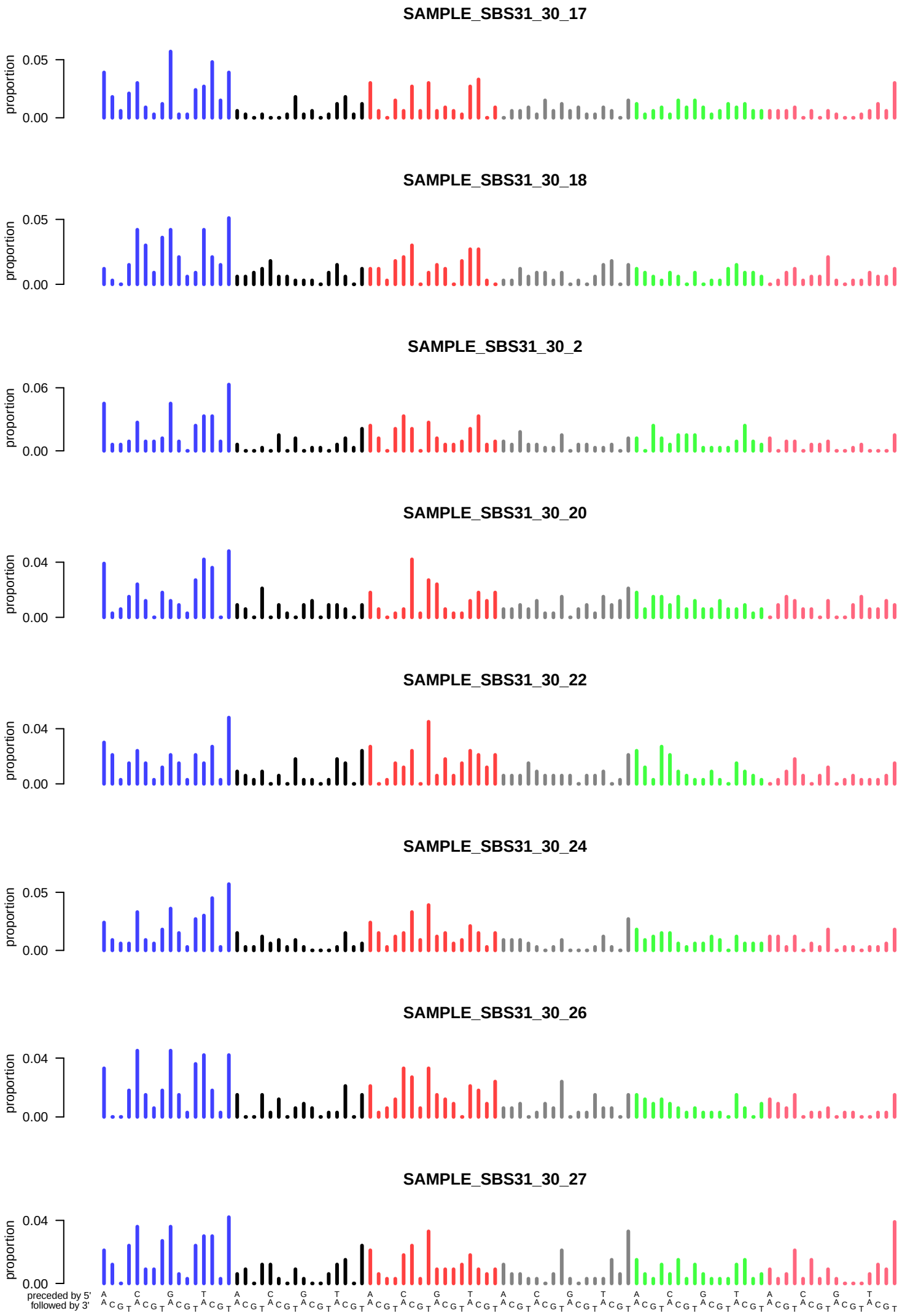
followed by 3'
A C G T A C G T A C G T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SAMPLE_SBS31_30_20
proportion
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SAMPLE_SBS31_30_22
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SAMPLE_SBS31_30_24
proportion
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SAMPLE_SBS31_30_26
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SAMPLE_SBS31_30_27
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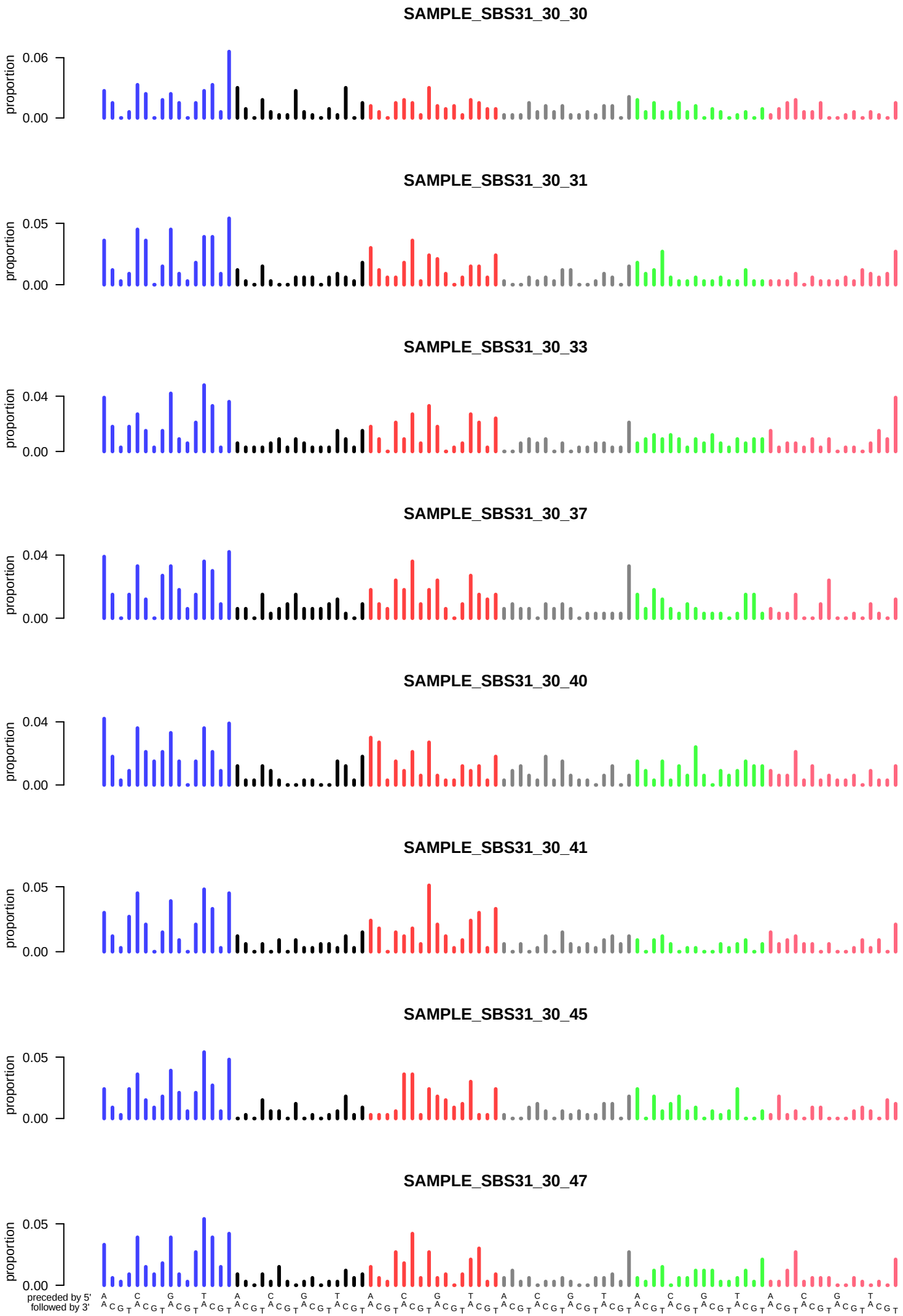
followed by 3'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followed by 3'
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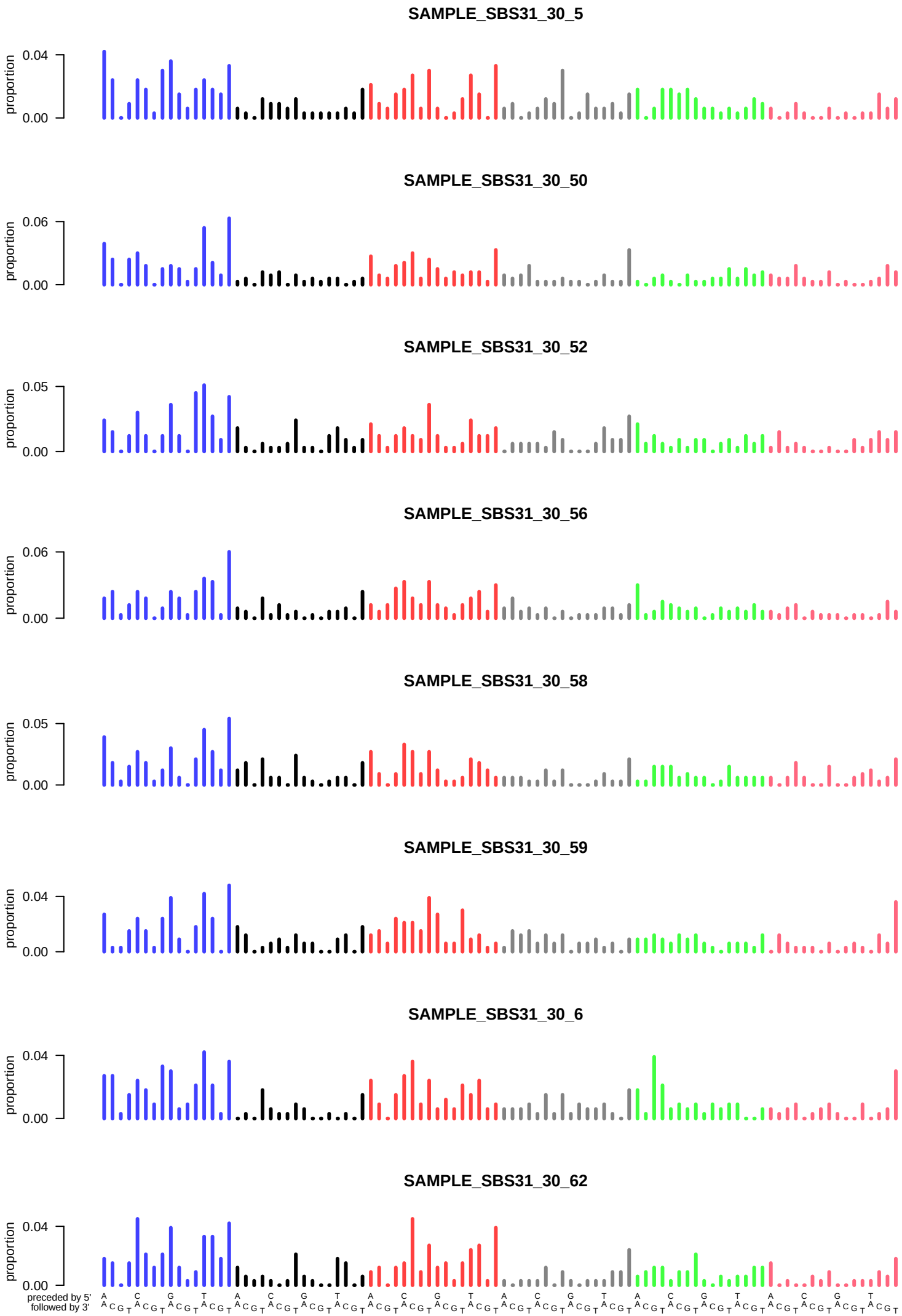
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proportion
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SAMPLE_SBS31_30_58
proportion
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SAMPLE_SBS31_30_59
proportion
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SAMPLE_SBS31_30_6
proportion
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proportion
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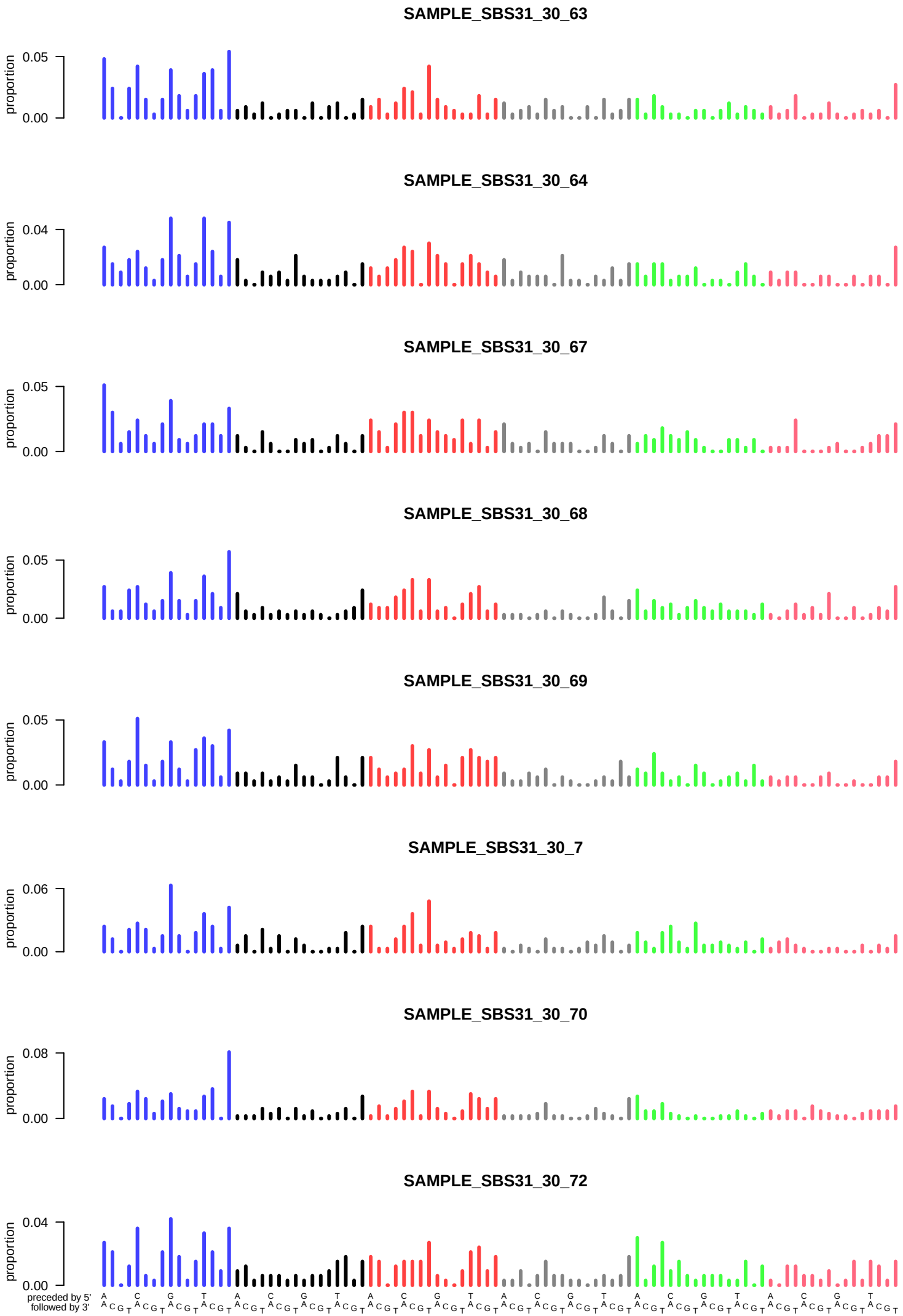
preceded by 5'
followed by 3'
A C G T A C G T A C G T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SAMPLE_SBS31_30_67
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SAMPLE_SBS31_30_68
proportion
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SAMPLE_SBS31_30_69
proportion
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0.00
SAMPLE_SBS31_30_7
proportion
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0.00
SAMPLE_SBS31_30_70
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SAMPLE_SBS31_30_72
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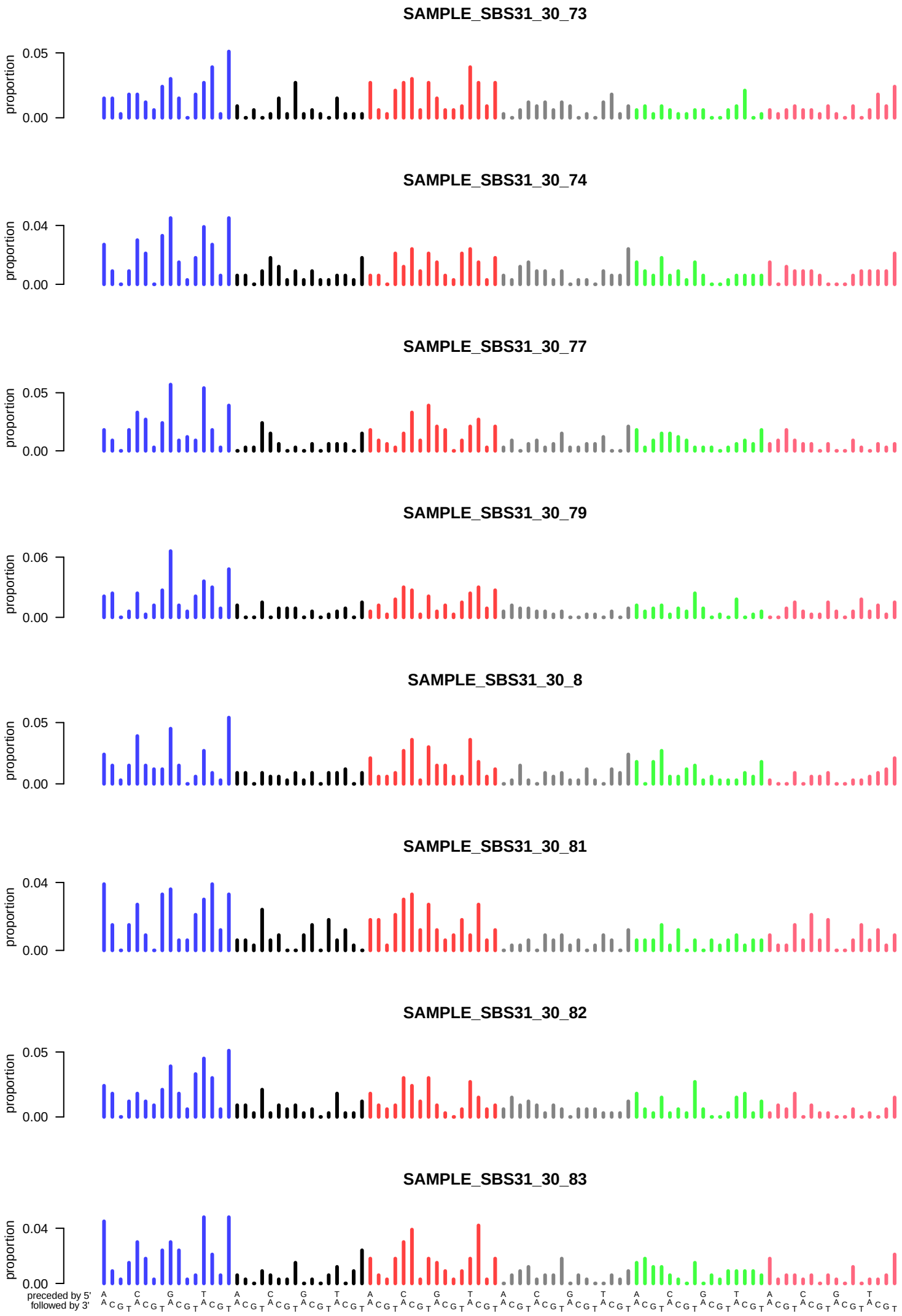
preceded by 5'
followed by 3'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SAMPLE_SBS31_30_81
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SAMPLE_SBS31_30_82
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SAMPLE_SBS31_30_83
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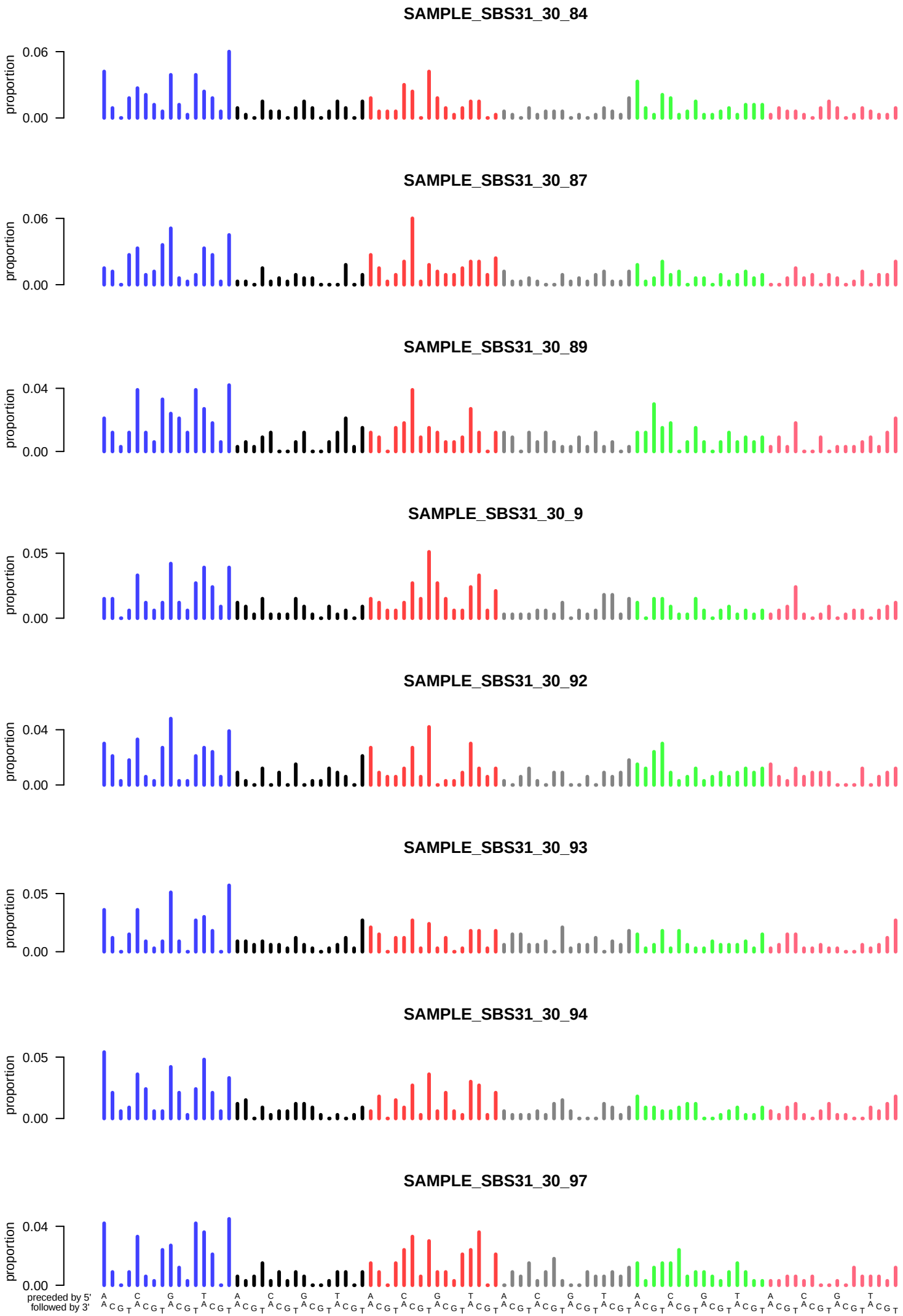
followed by 3'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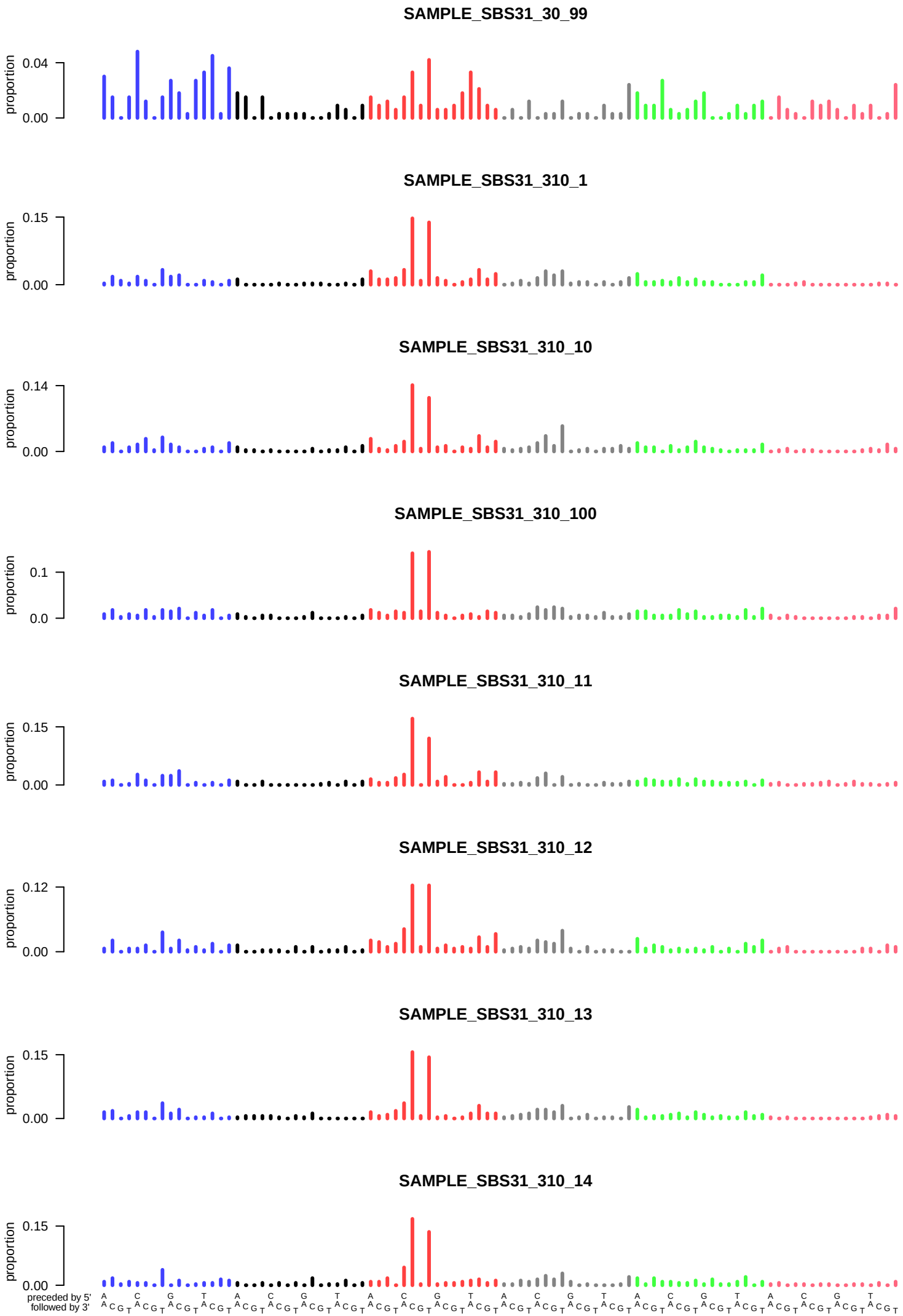
preceded by 5'
followed by 3'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SAMPLE_SBS31_310_12
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SAMPLE_SBS31_310_13
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SAMPLE_SBS31_310_14
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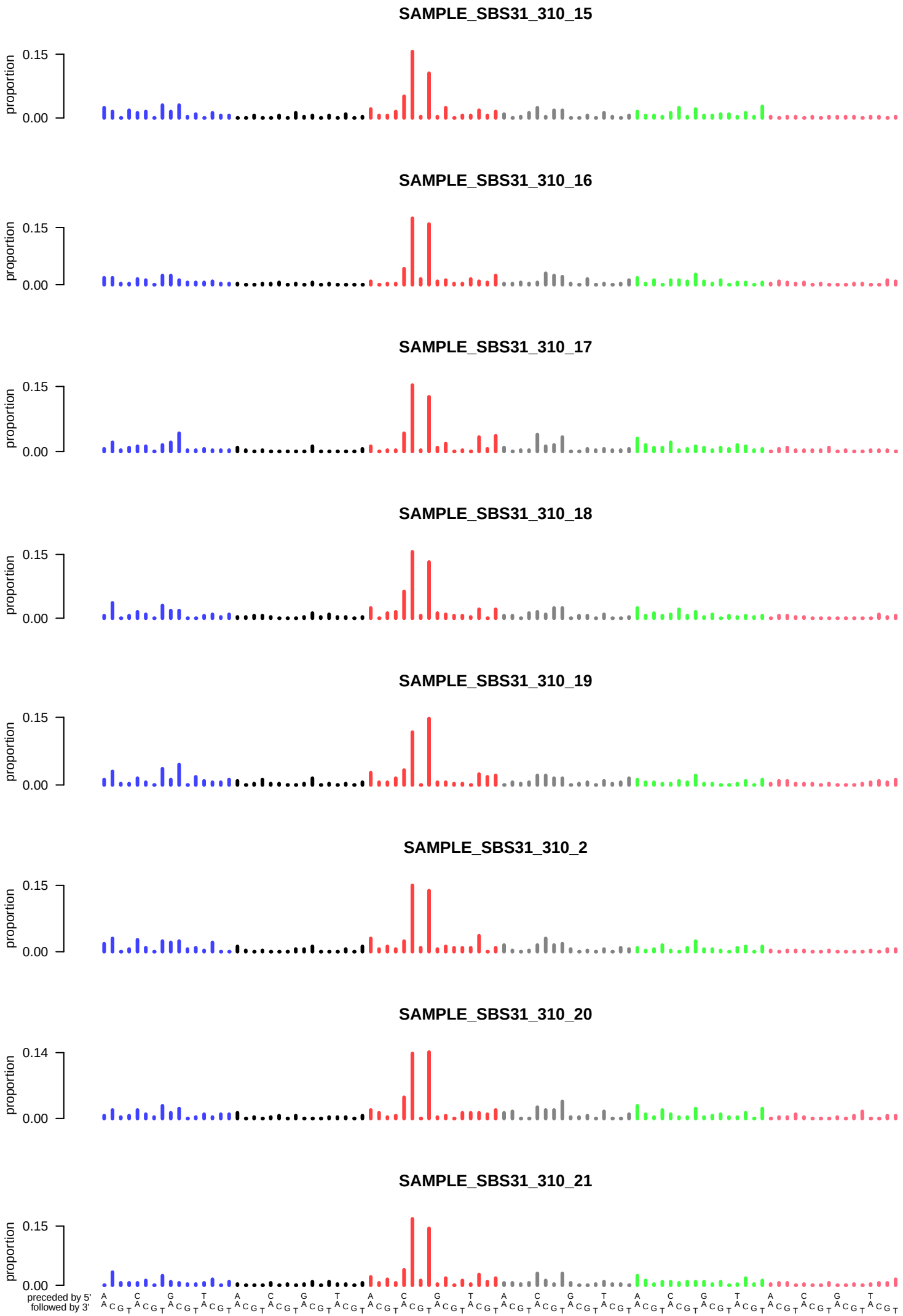
preceded by 5'
followed by 3'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SAMPLE_SBS31_310_2
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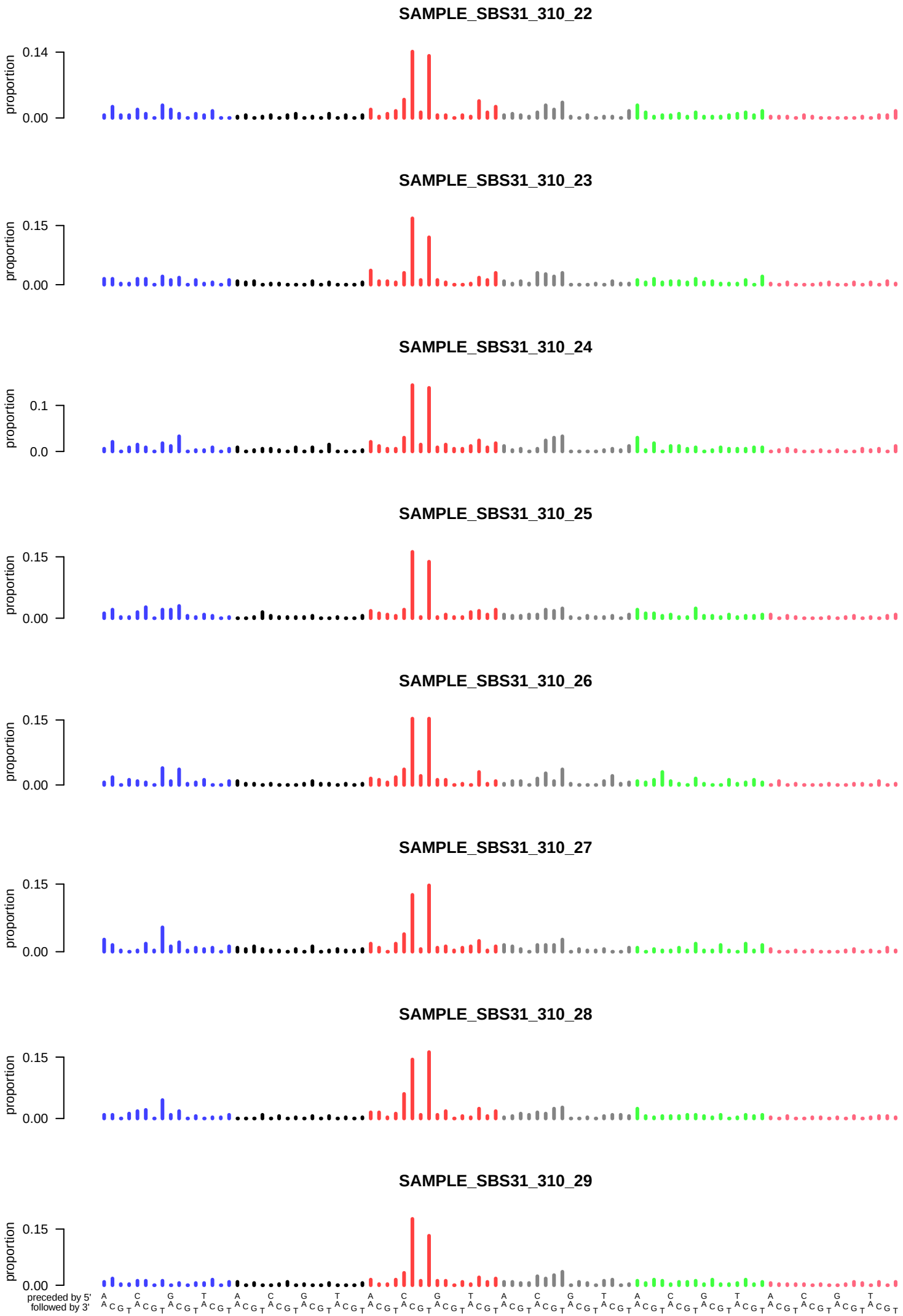
followed by 3'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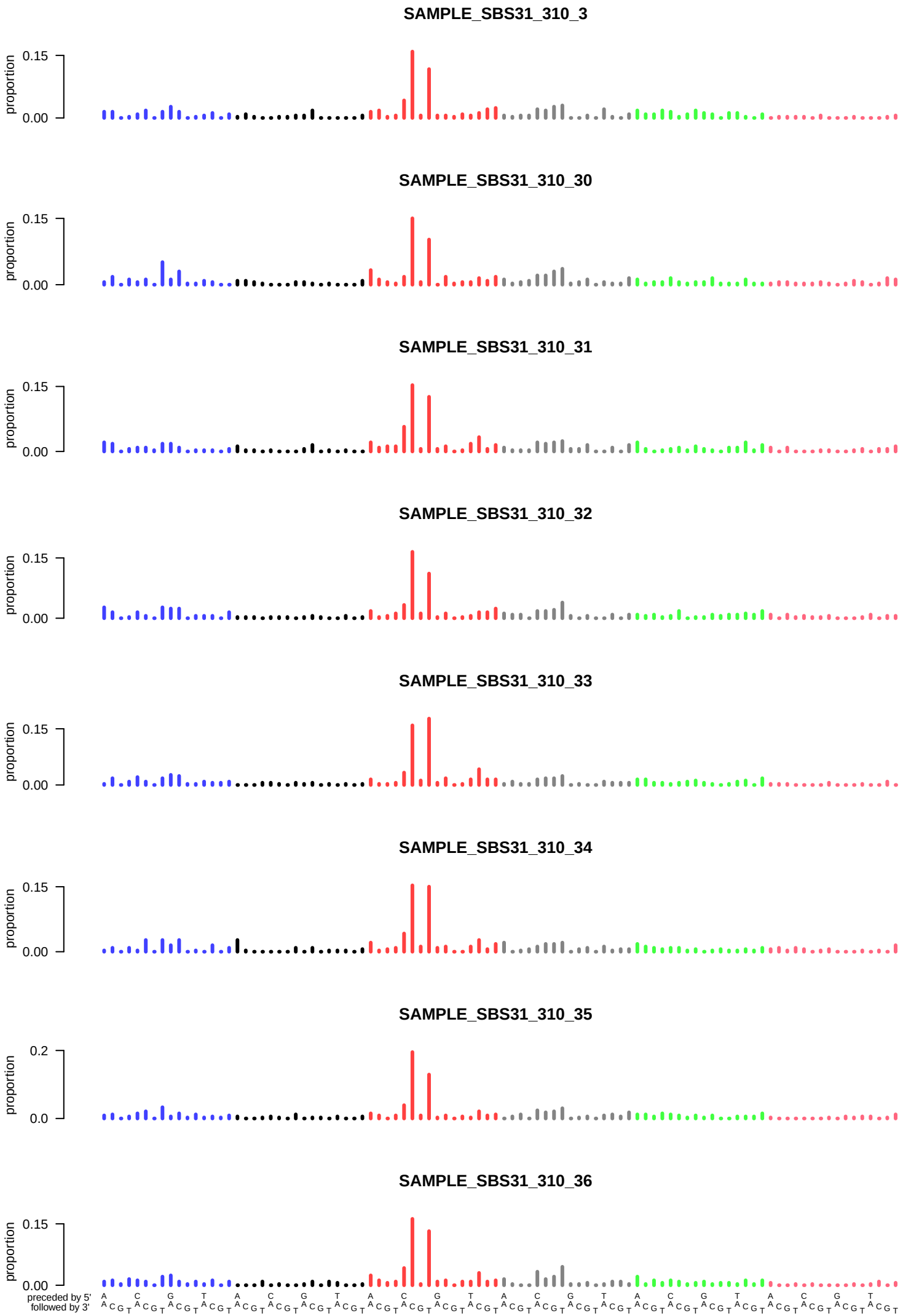
followed by 3'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SAMPLE_SBS31_310_34
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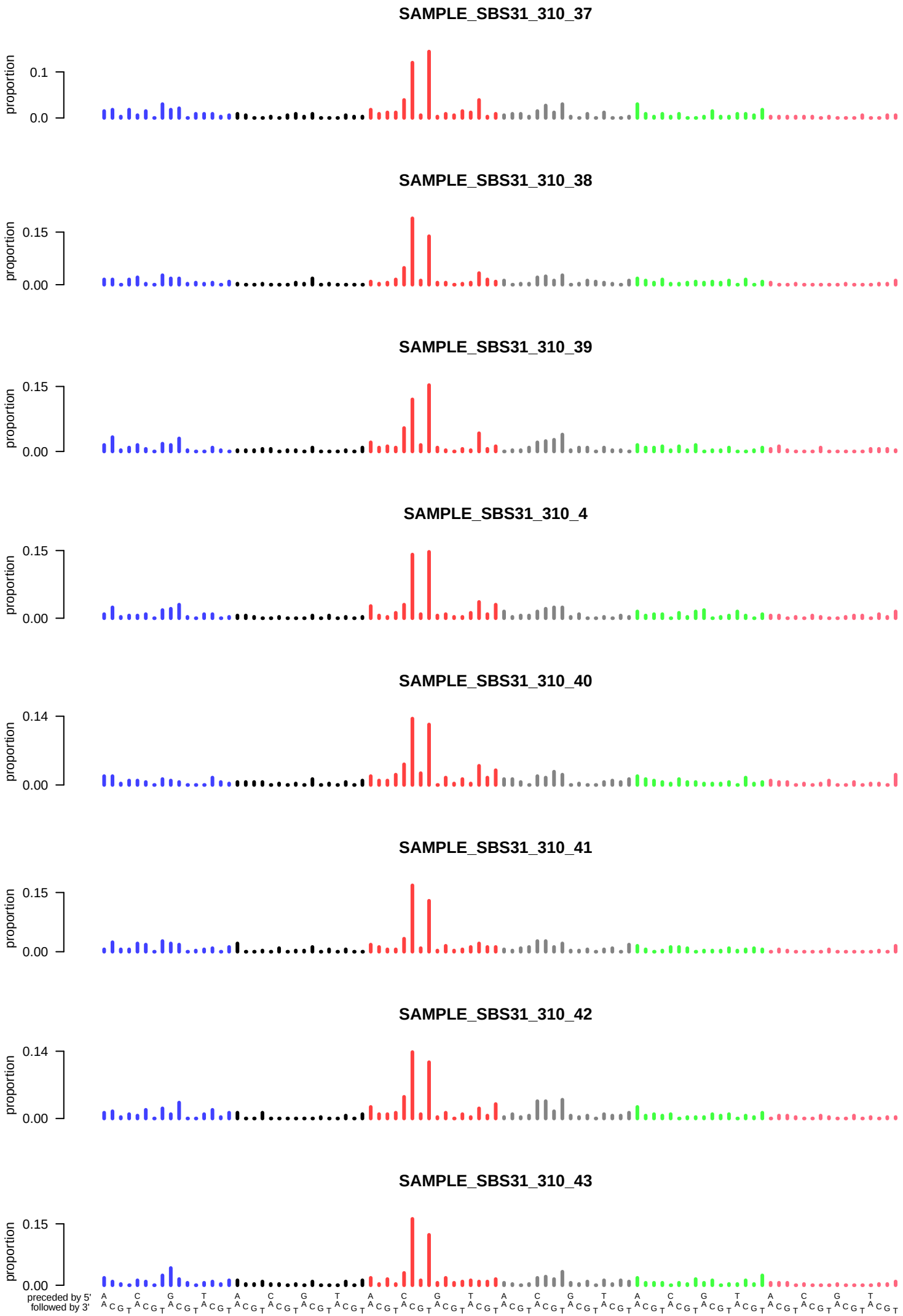
followed by 3'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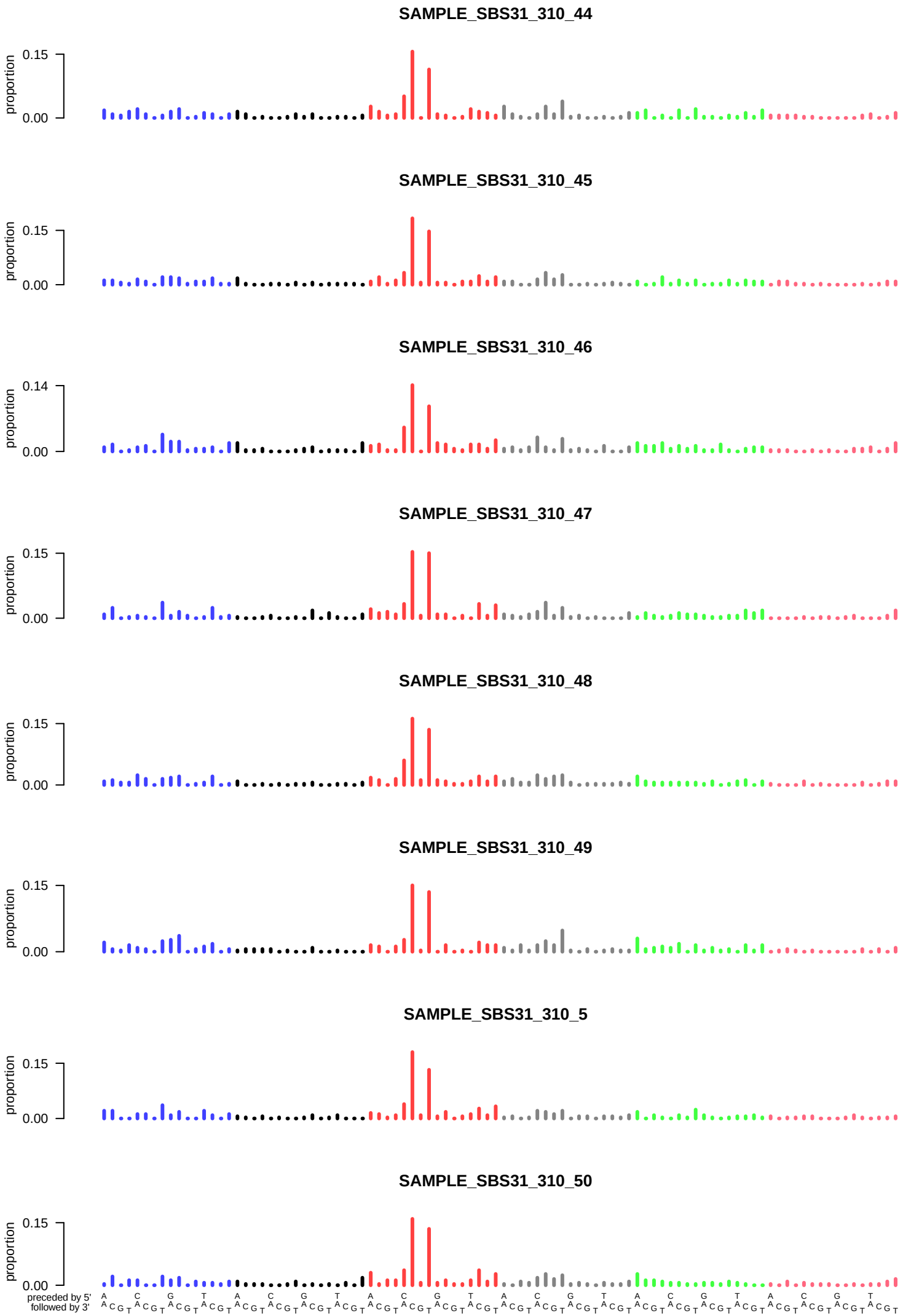
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SAMPLE_SBS31_310_49
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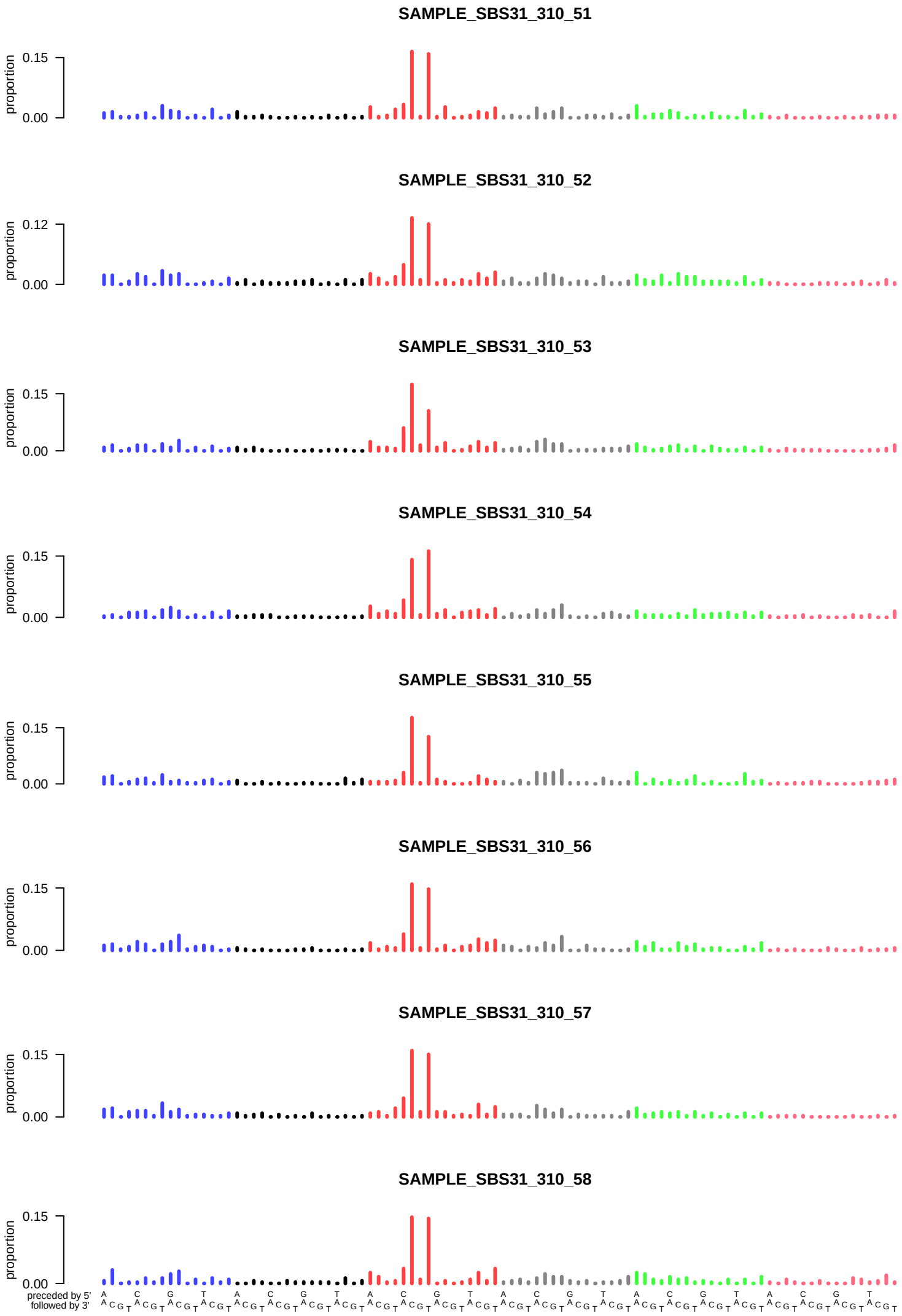
followed by 3'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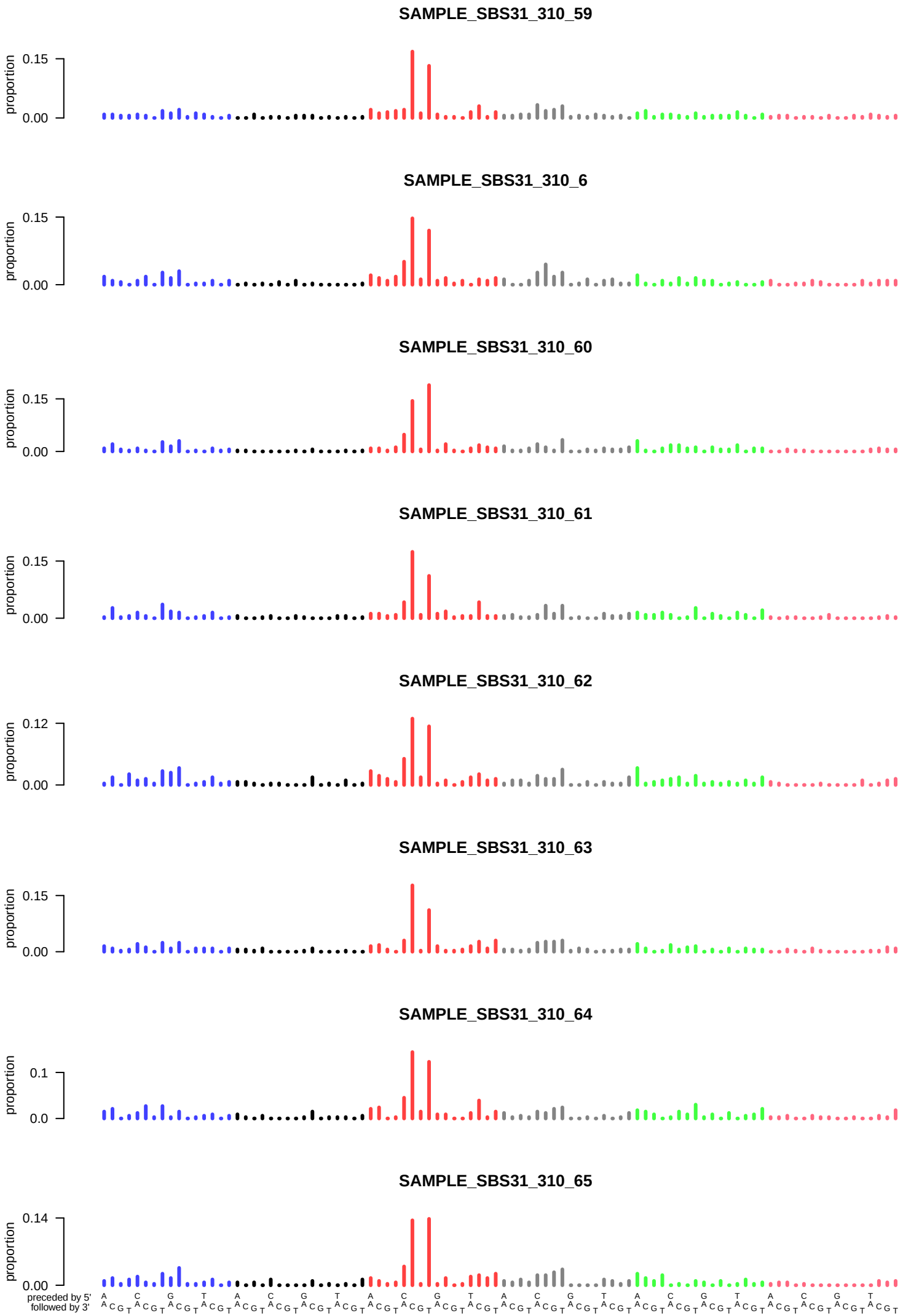
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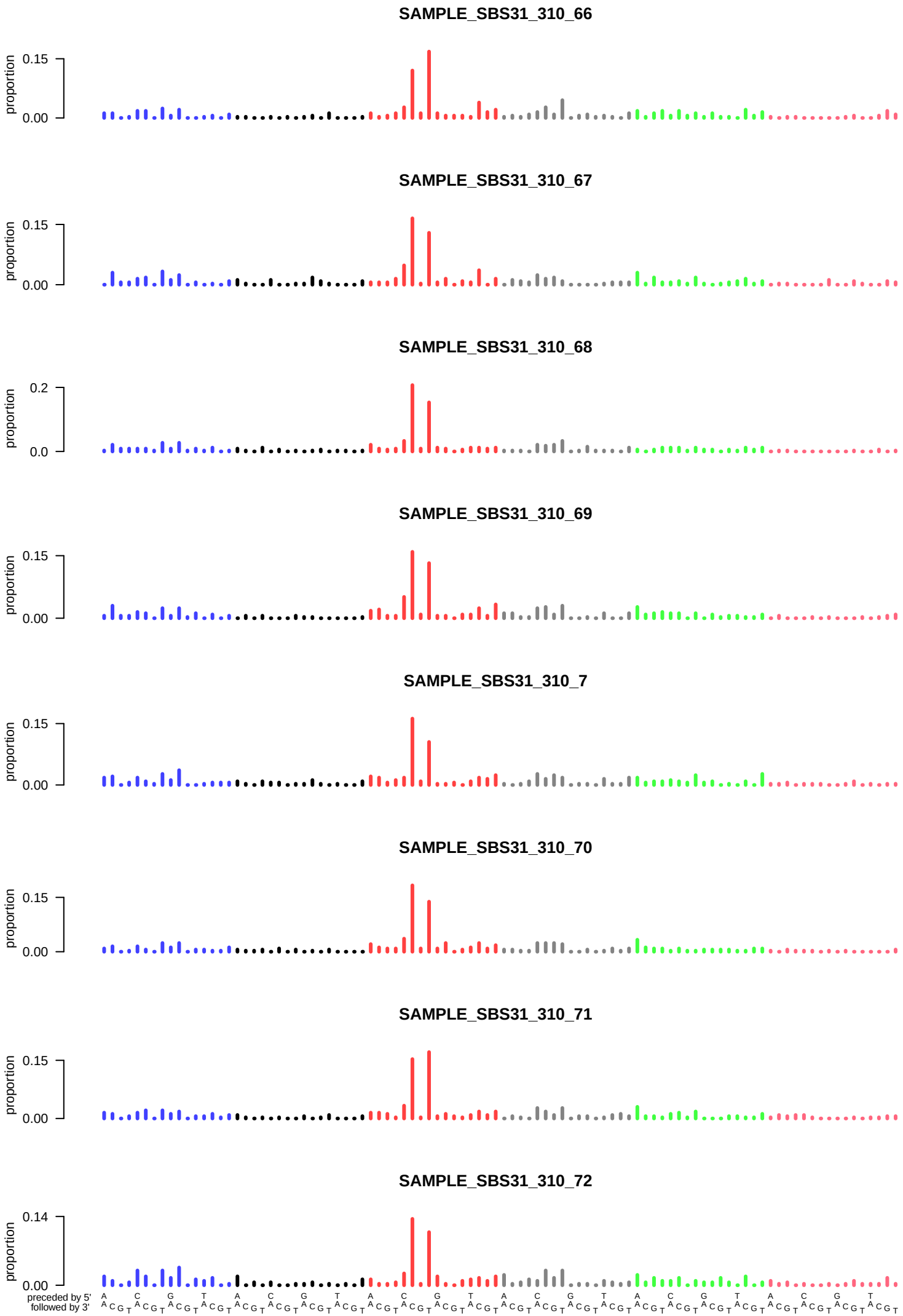
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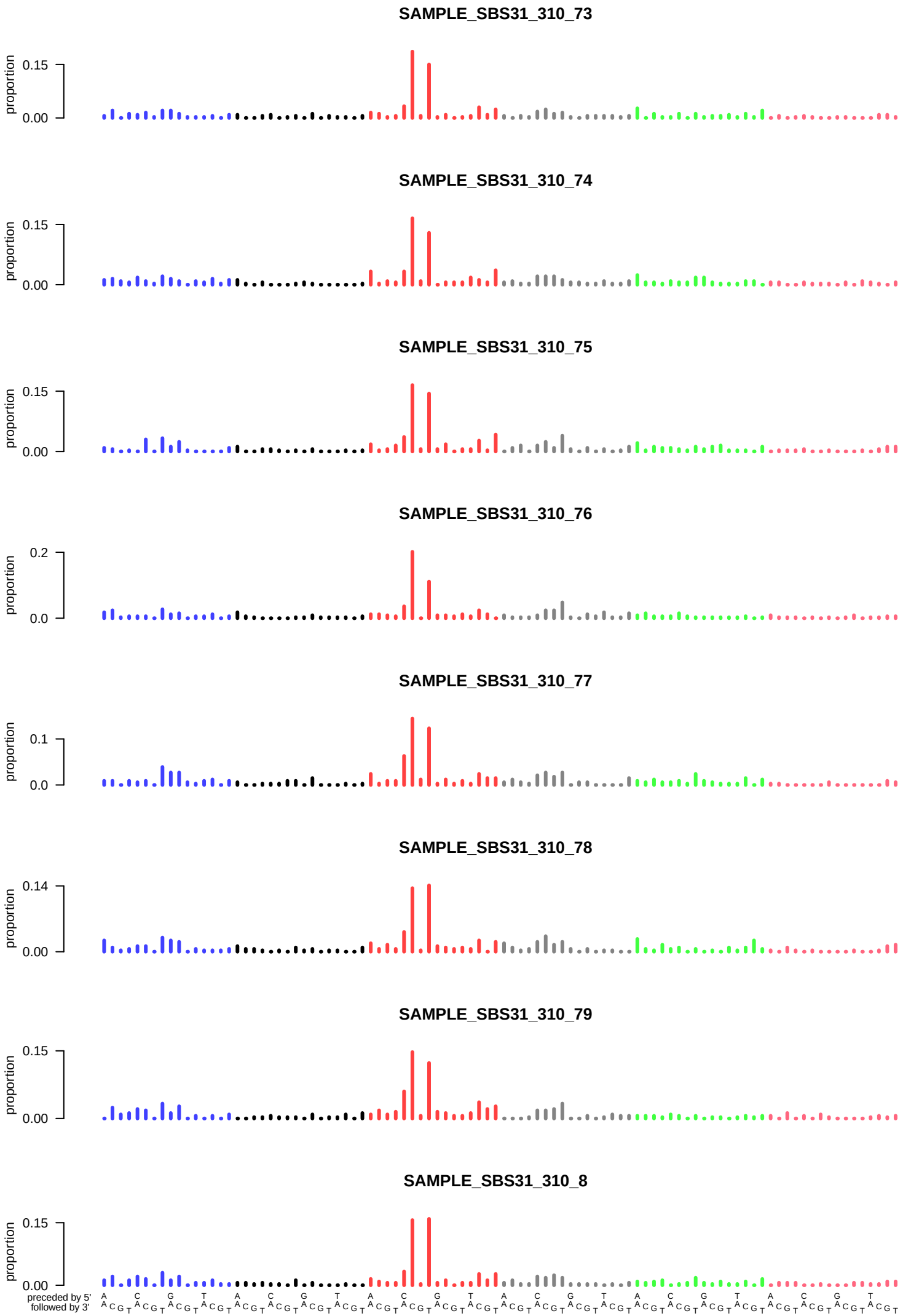
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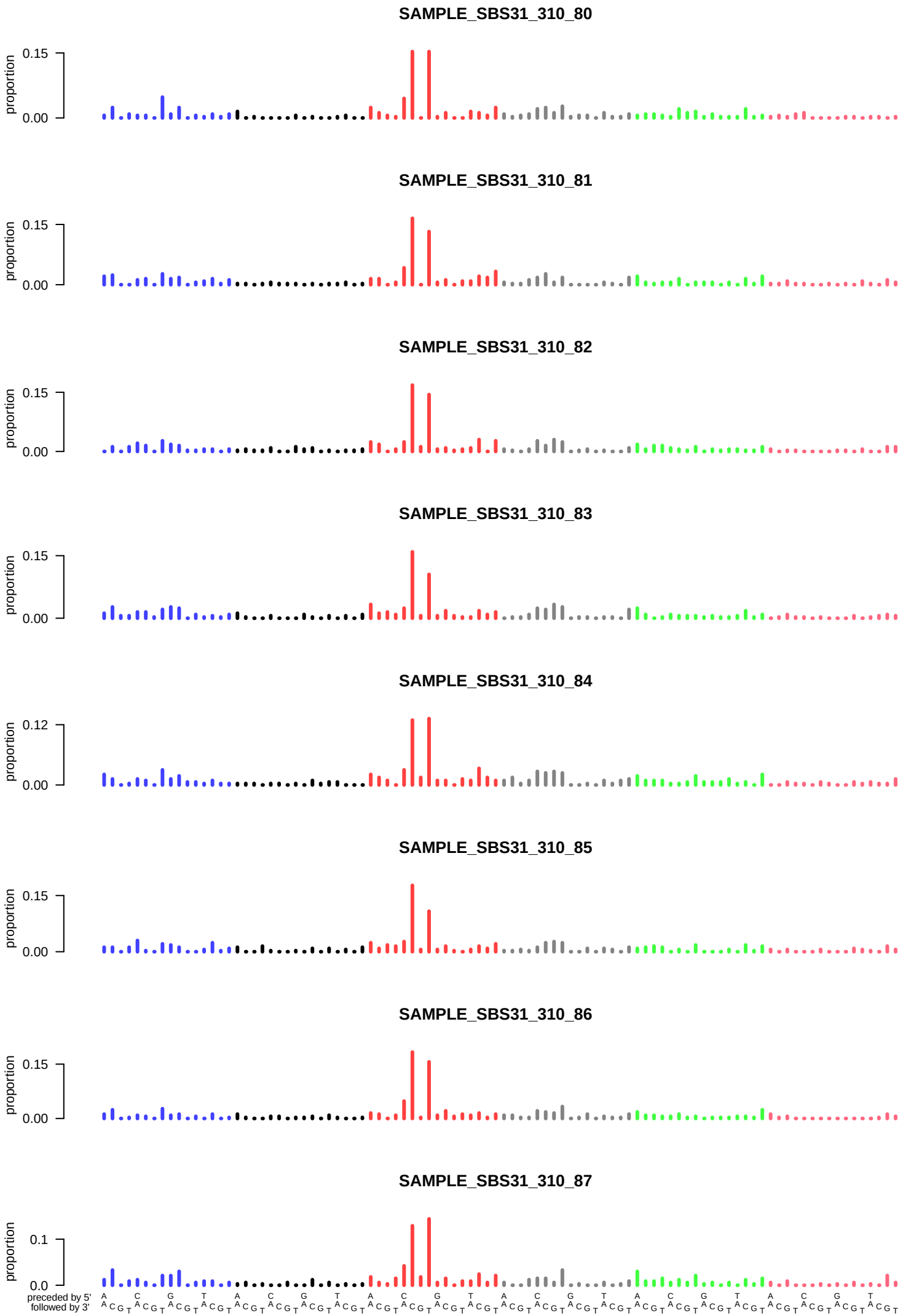
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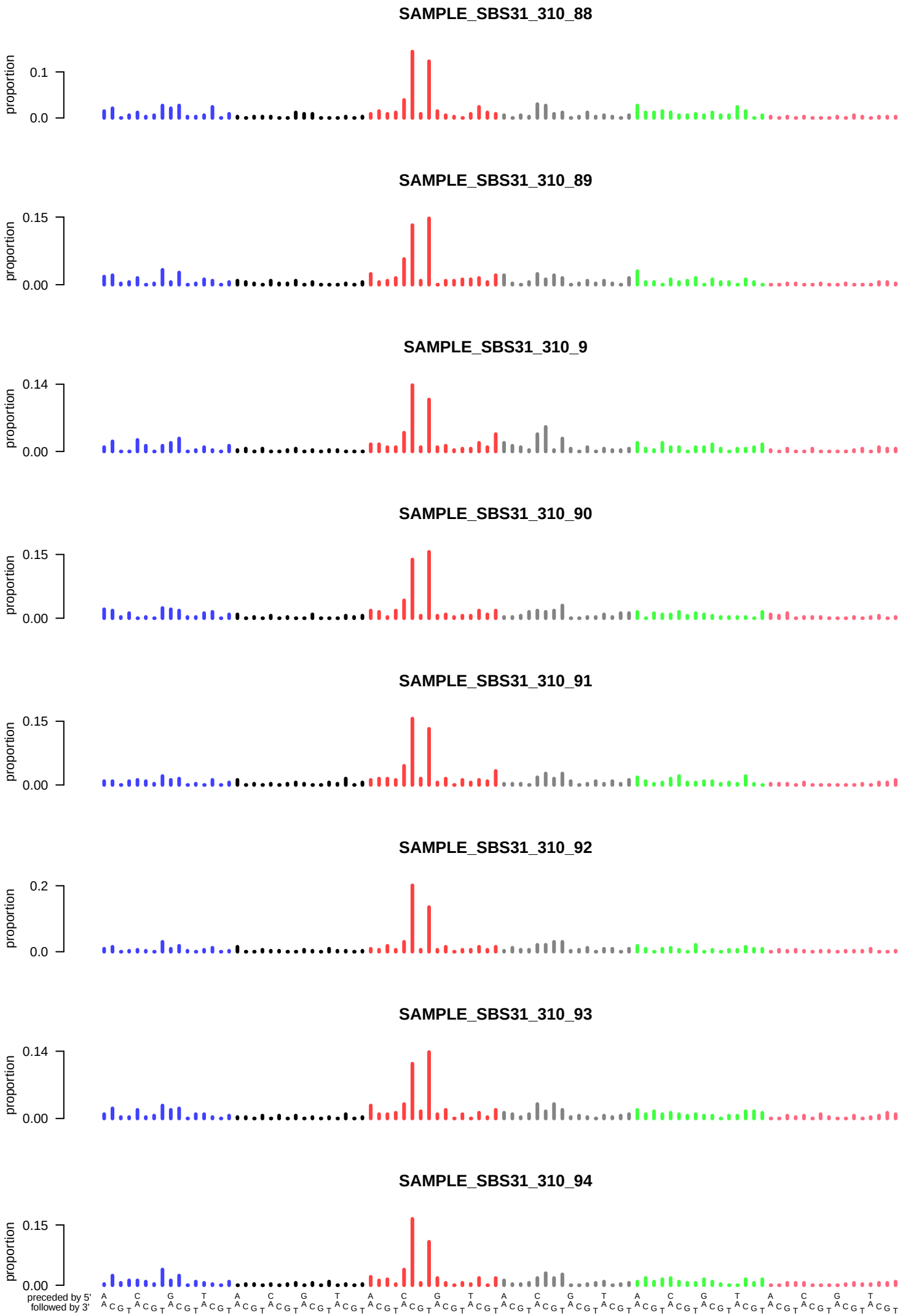
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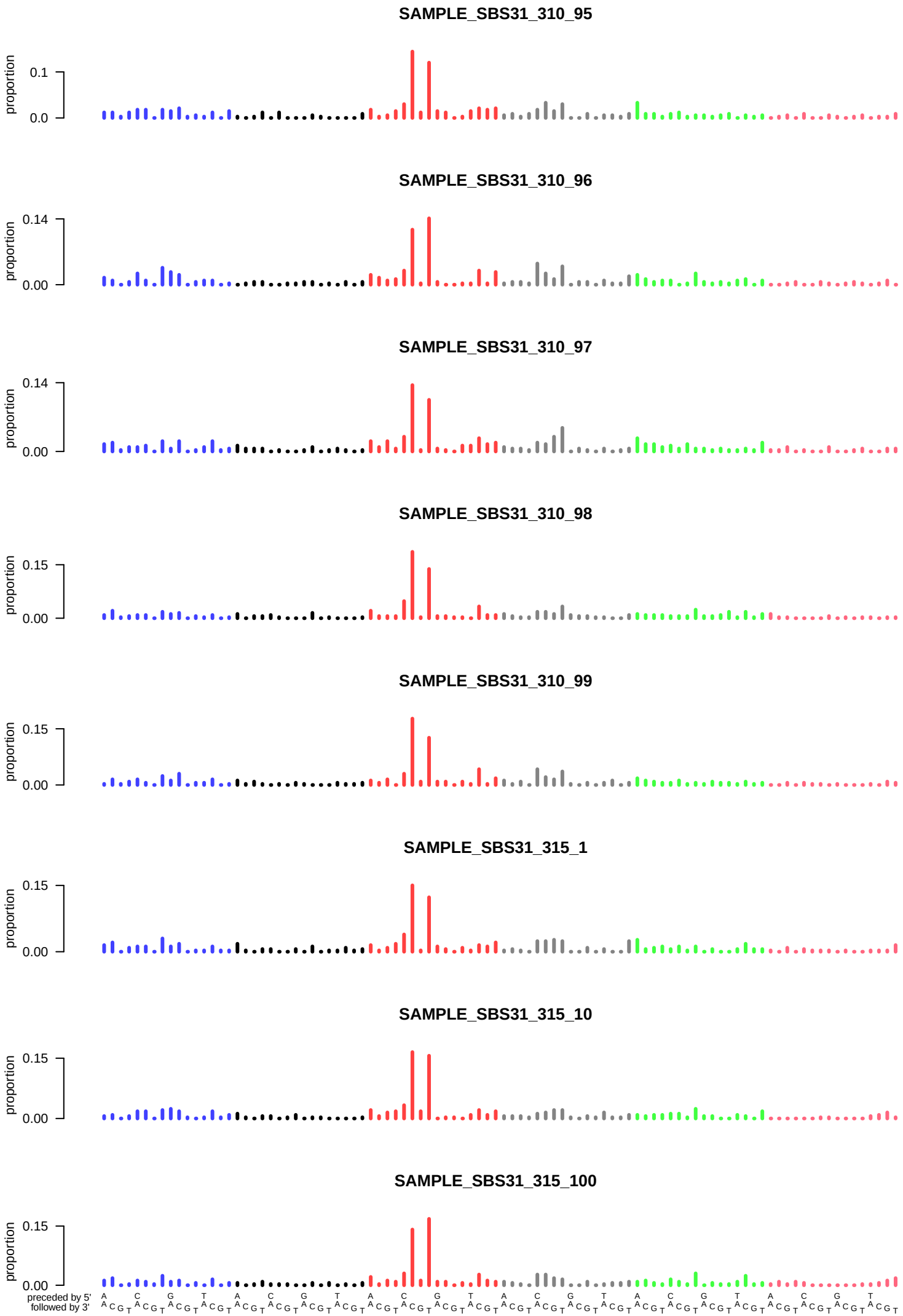
followed by 3'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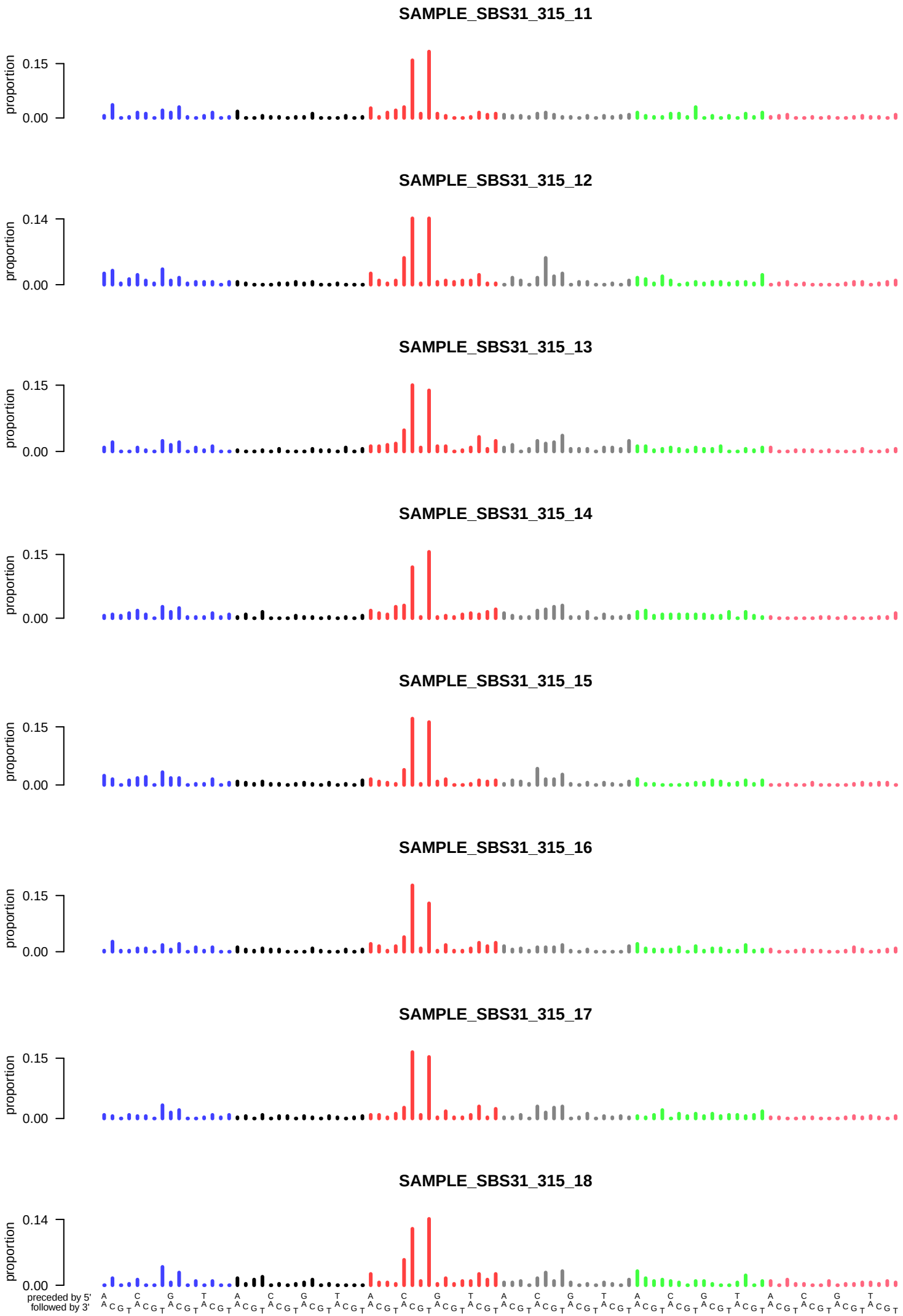
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SAMPLE_SBS31_315_18
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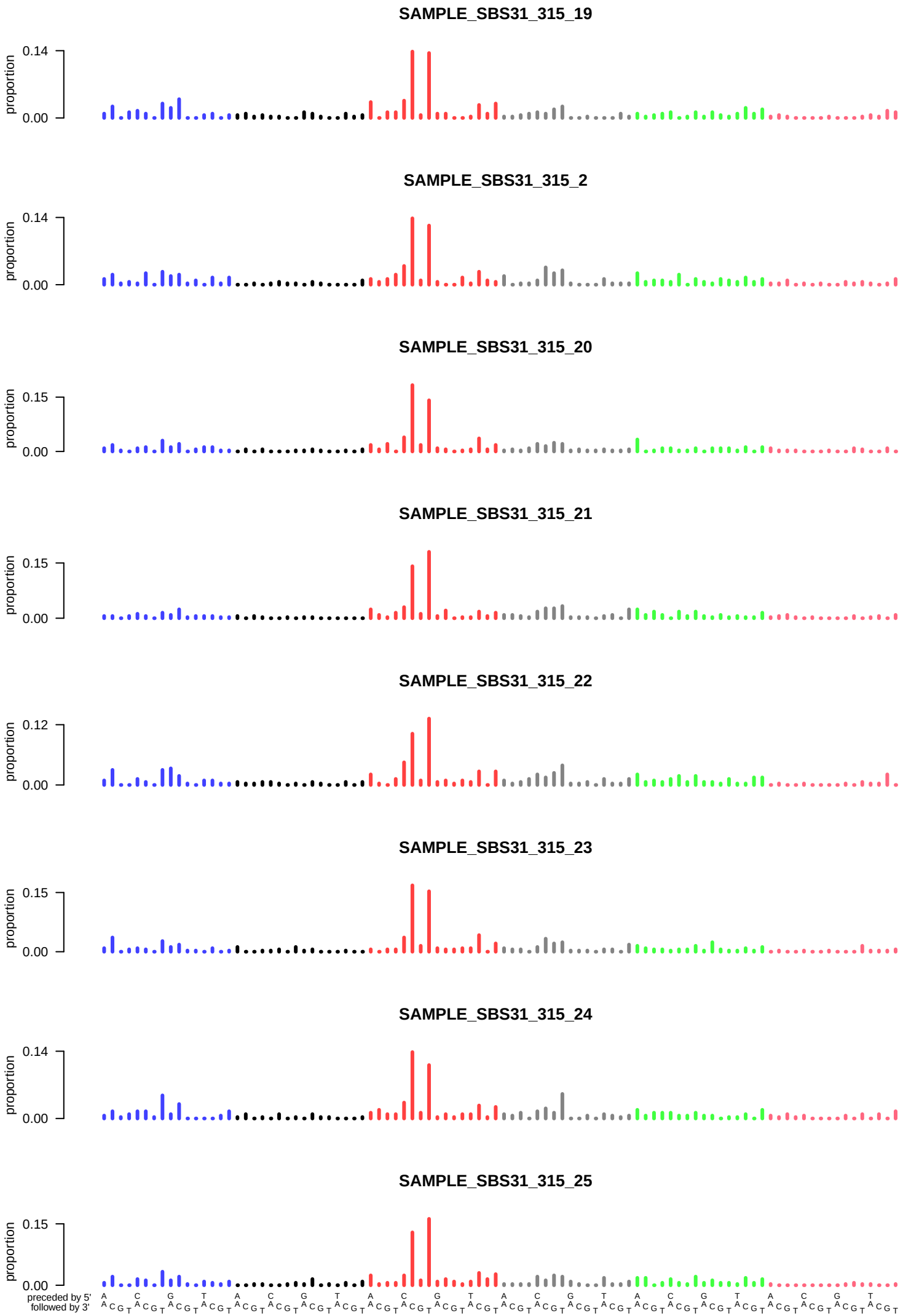
followed by 3'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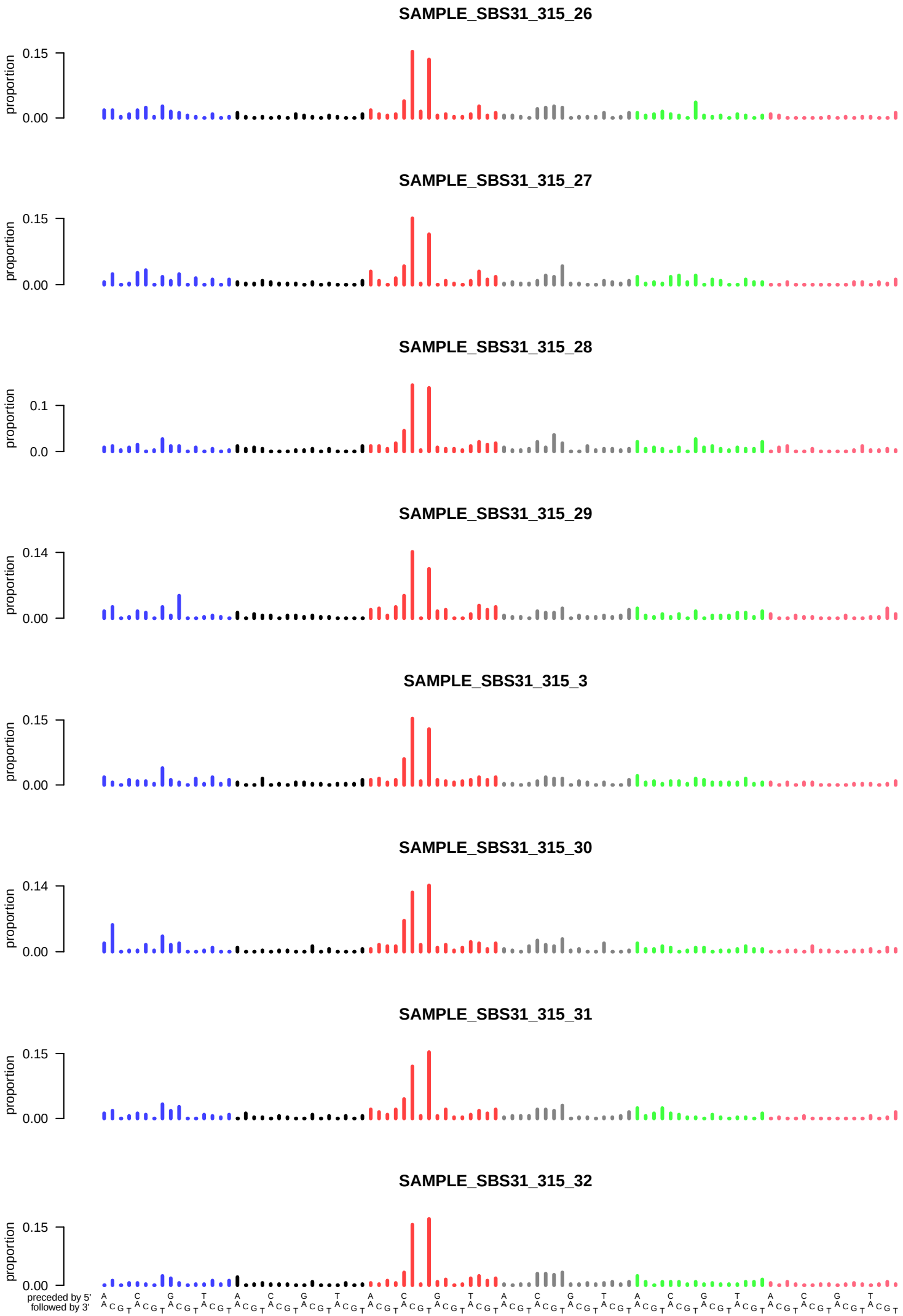
followed by 3'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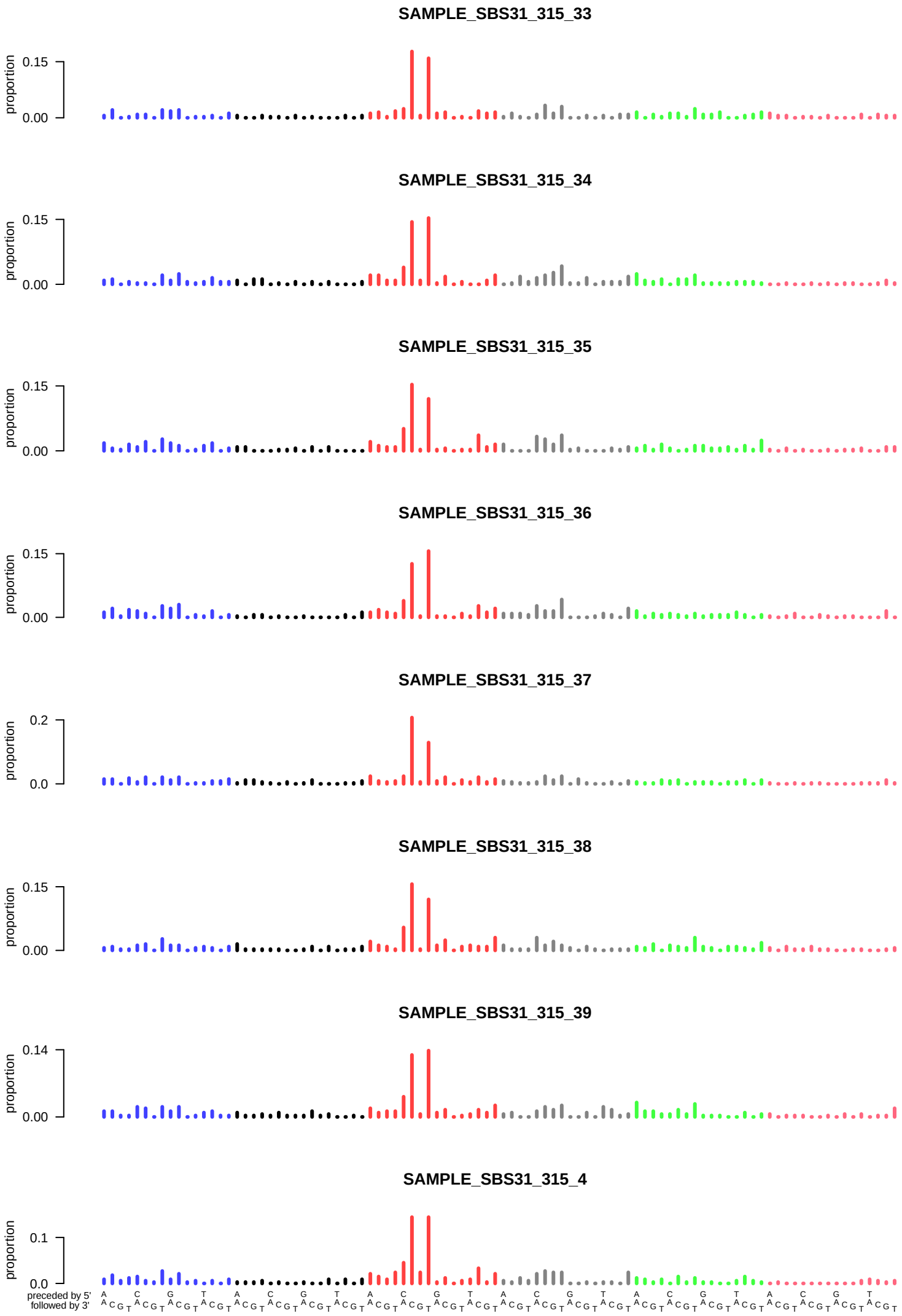
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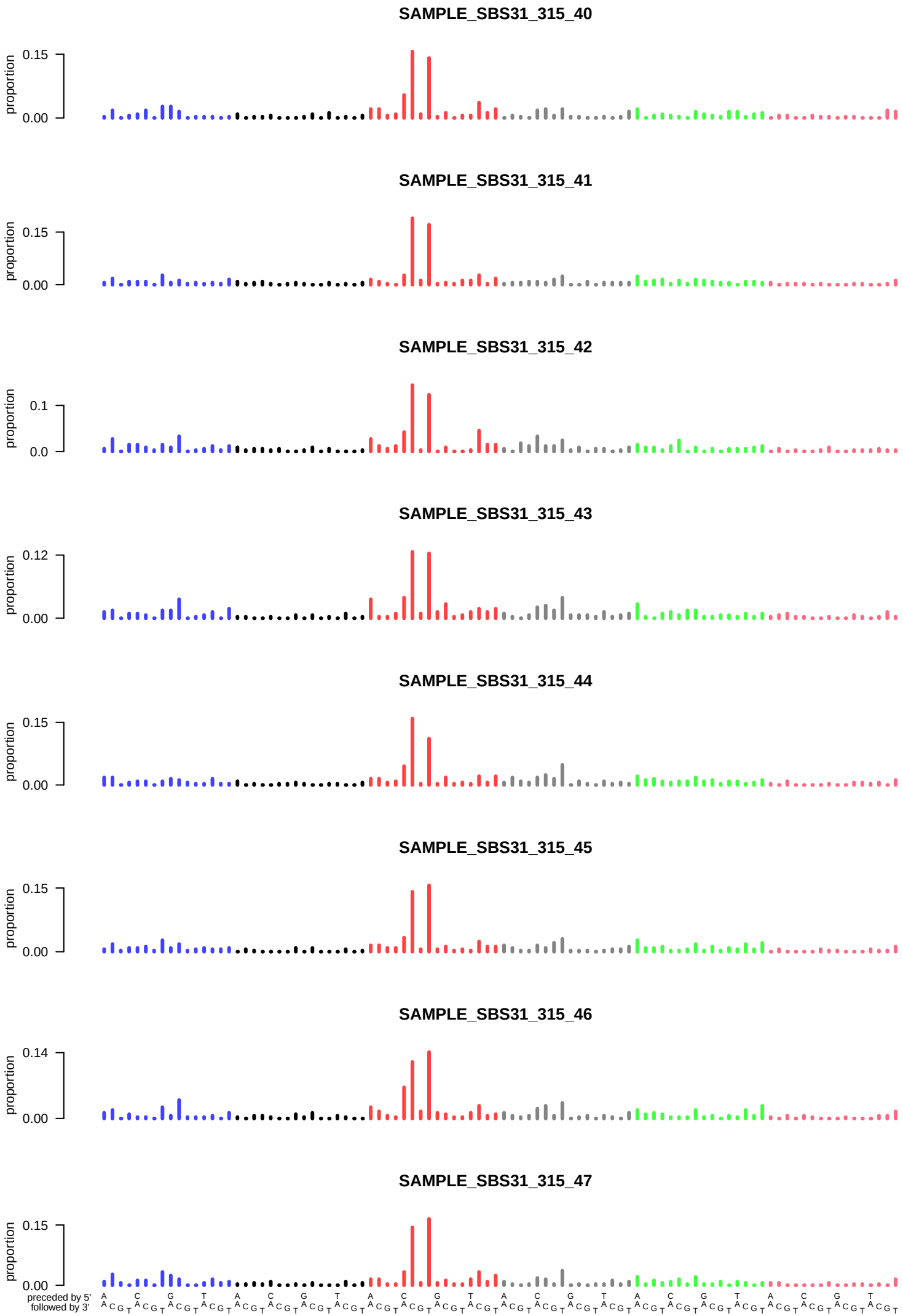
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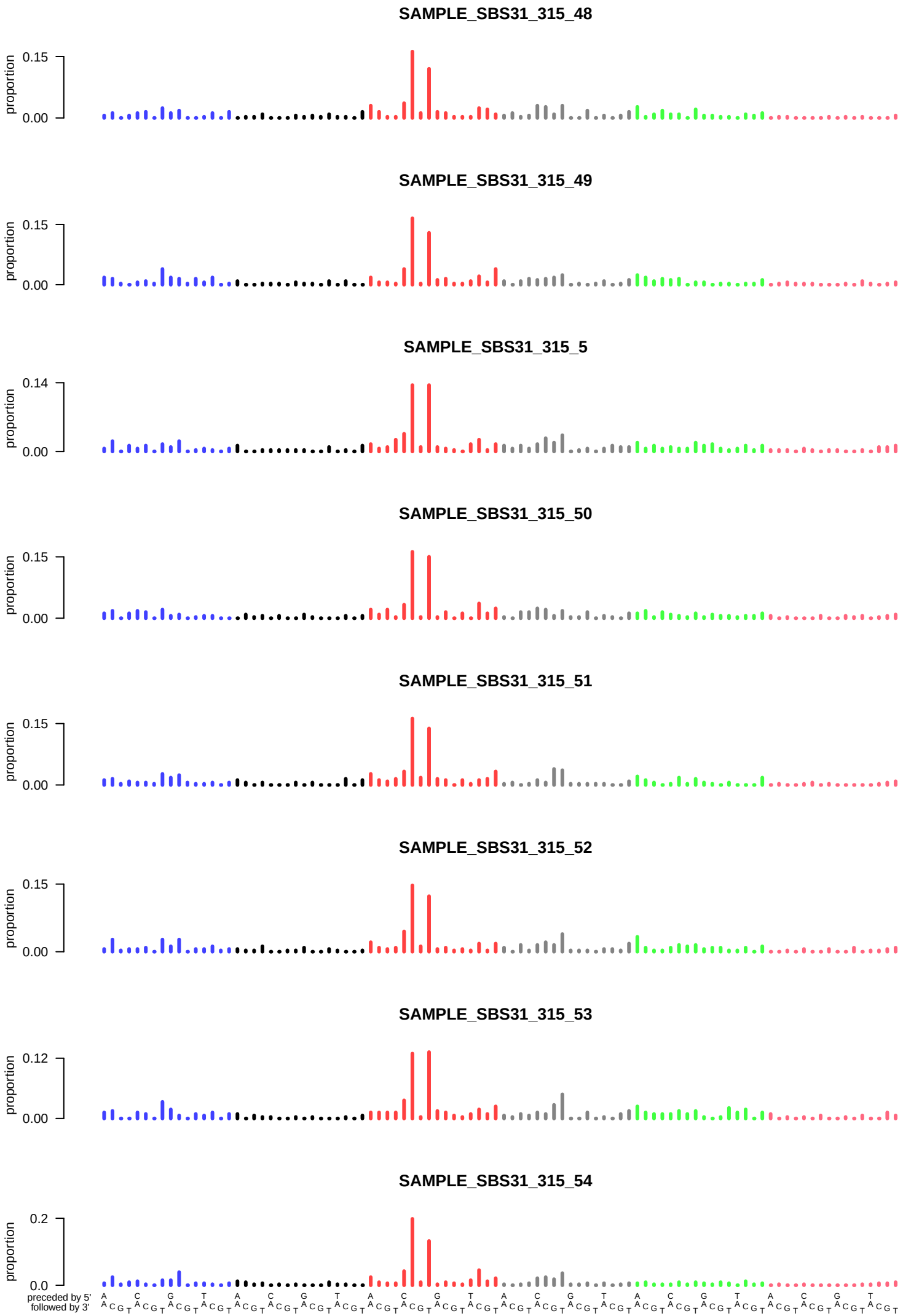
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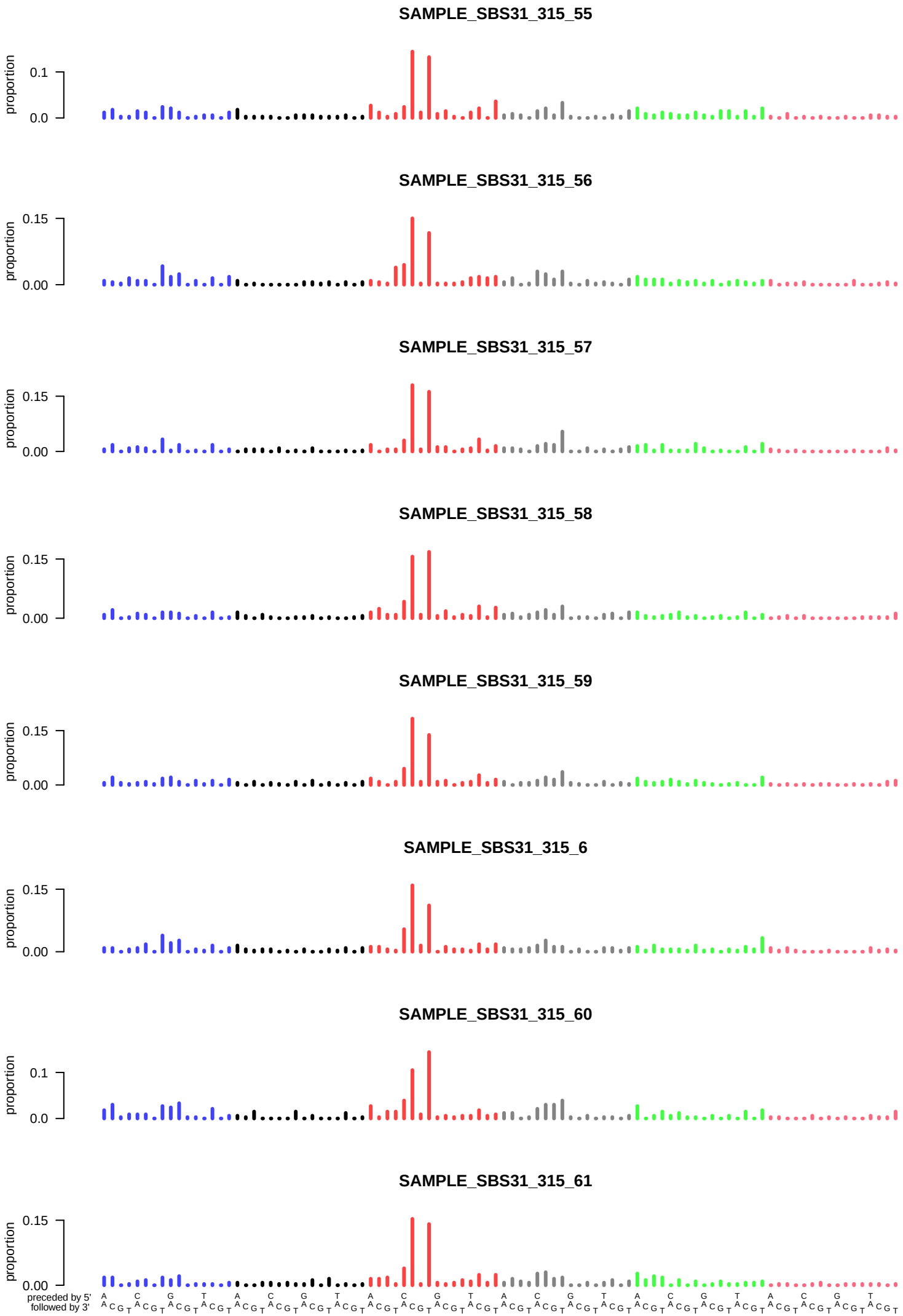
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proportion
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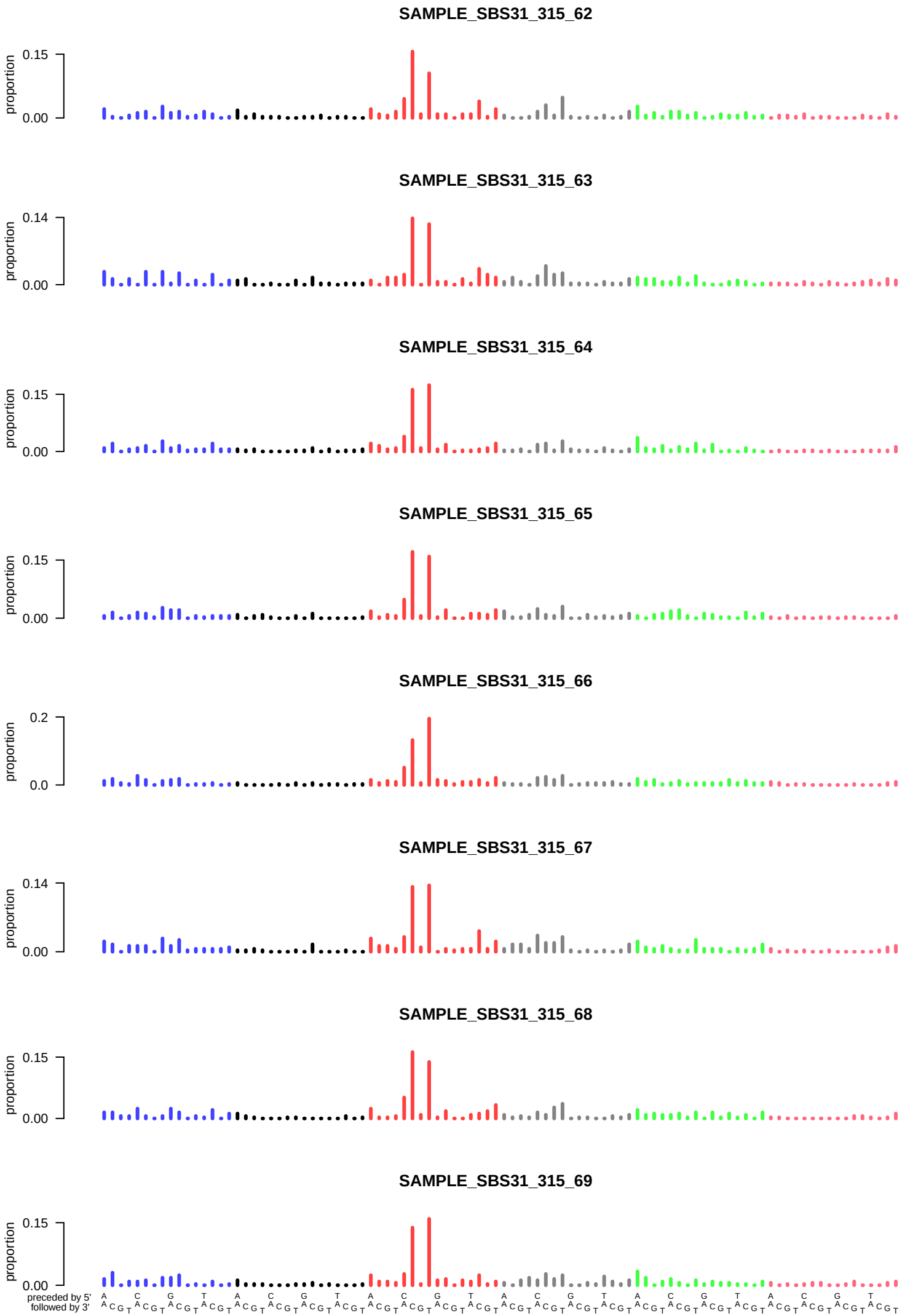
followed by 3'
A C G T A C G T A C G T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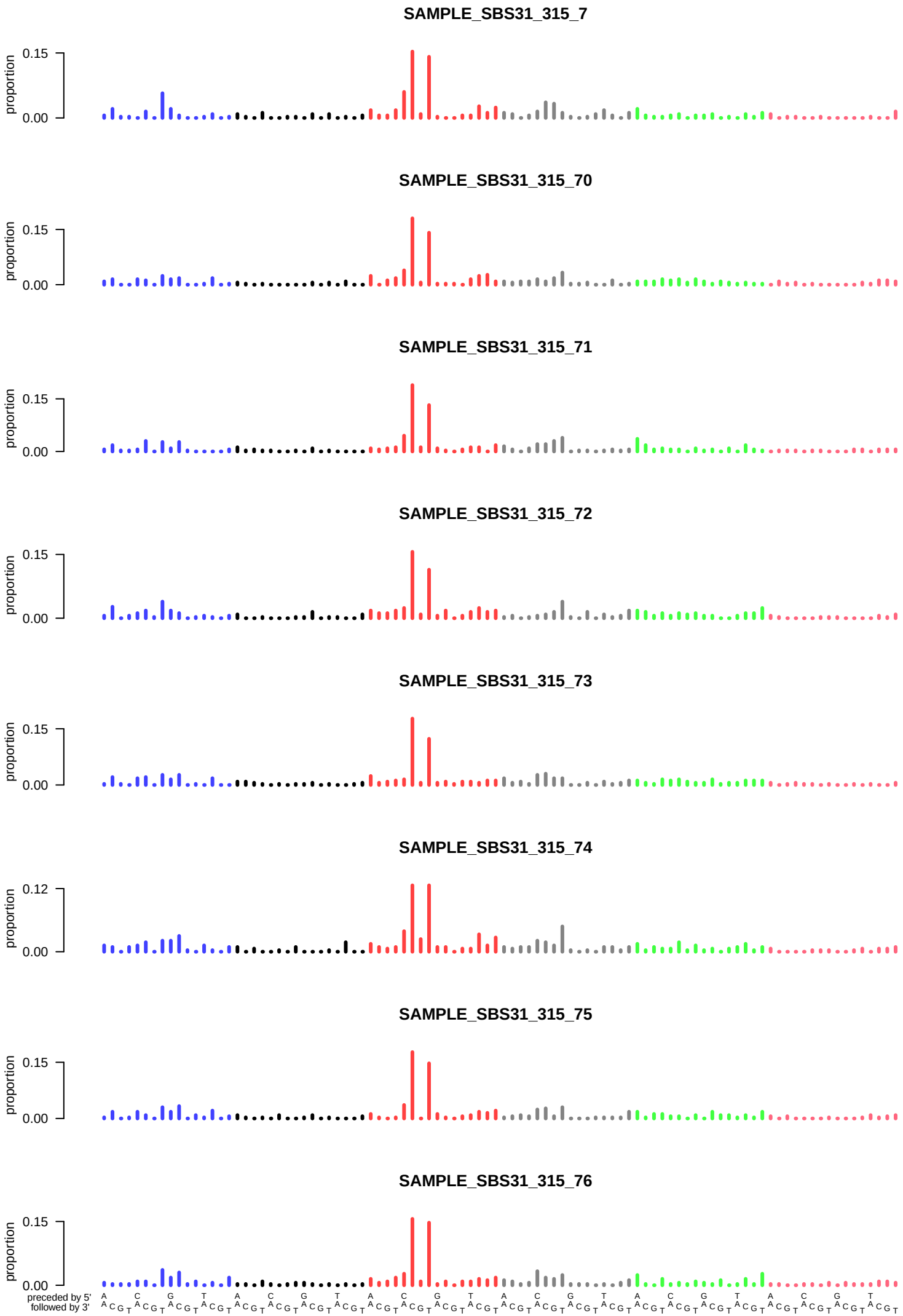
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SAMPLE_SBS31_315_73
SAMPLE_SBS31_315_74
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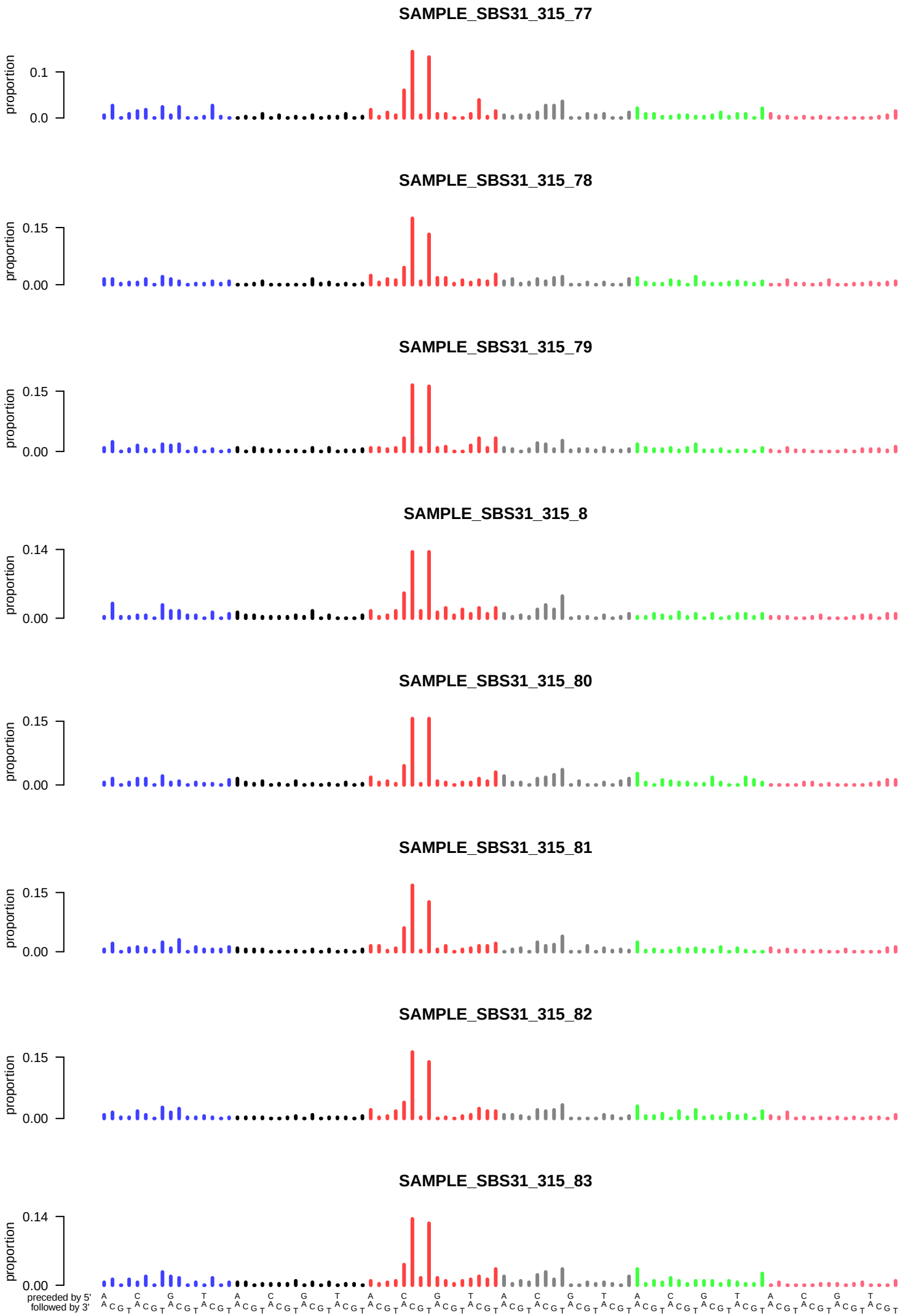
followed by 3'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SAMPLE_SBS31_315_81
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SAMPLE_SBS31_315_82
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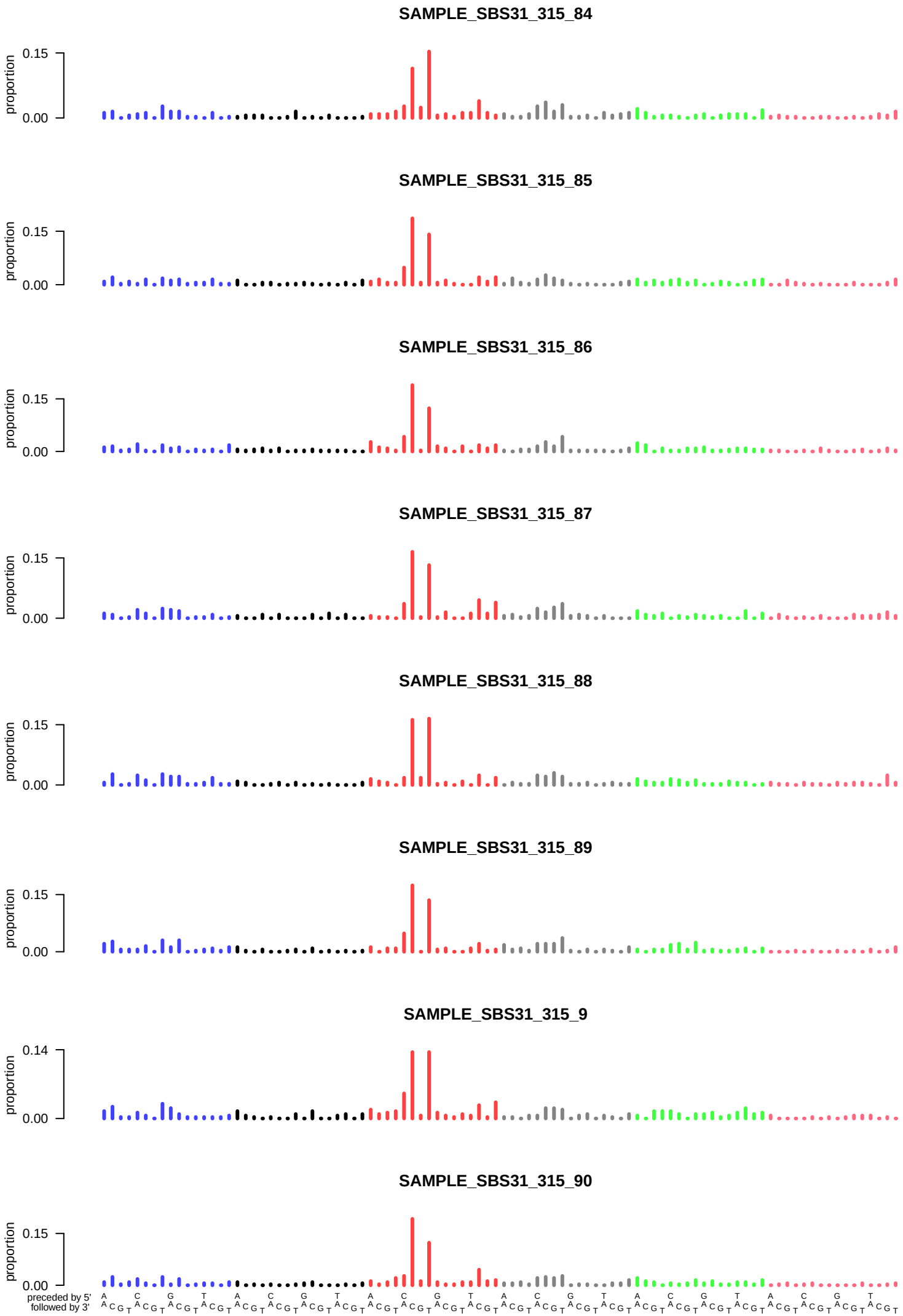
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SAMPLE_SBS31_315_89
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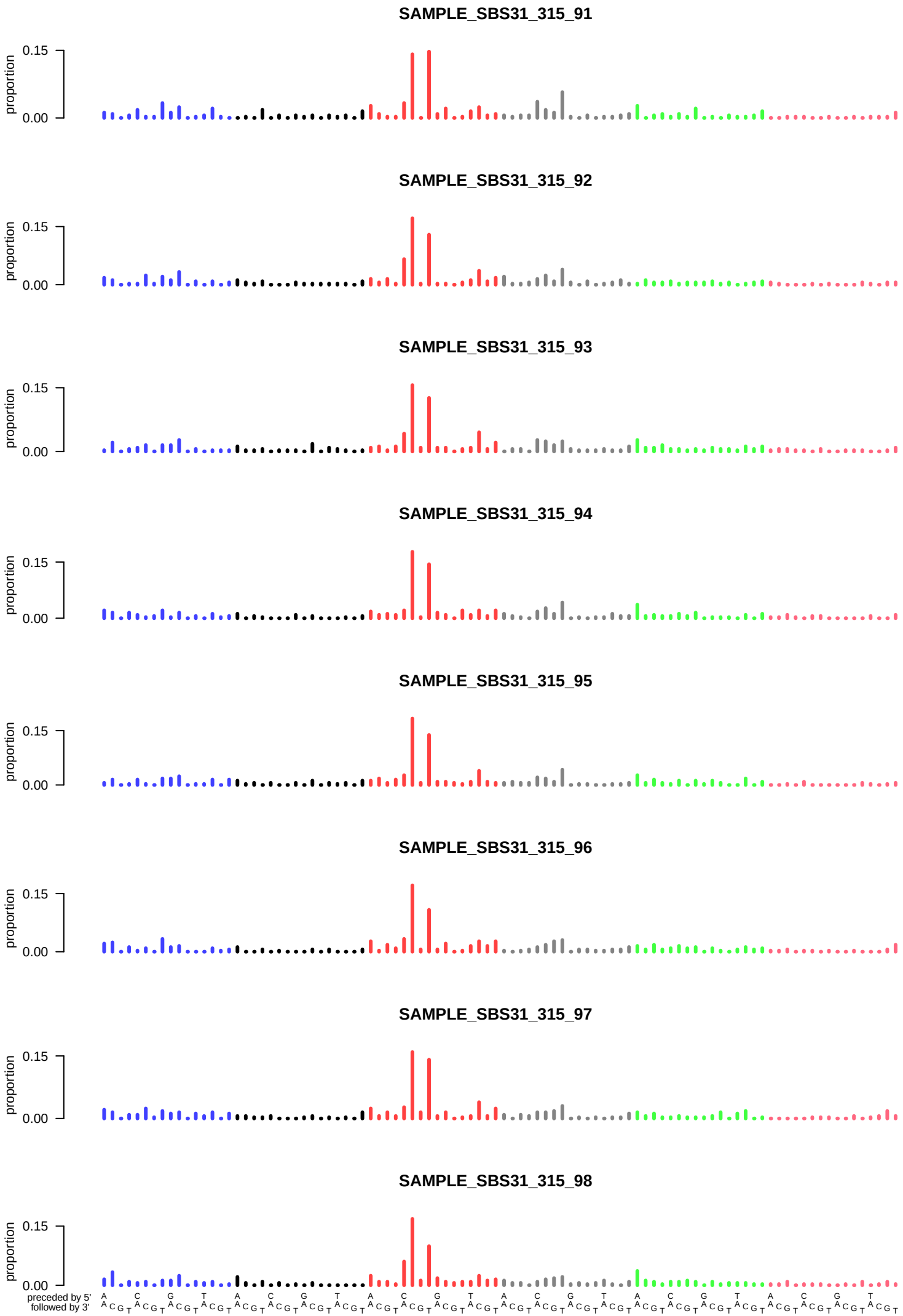
followed by 3'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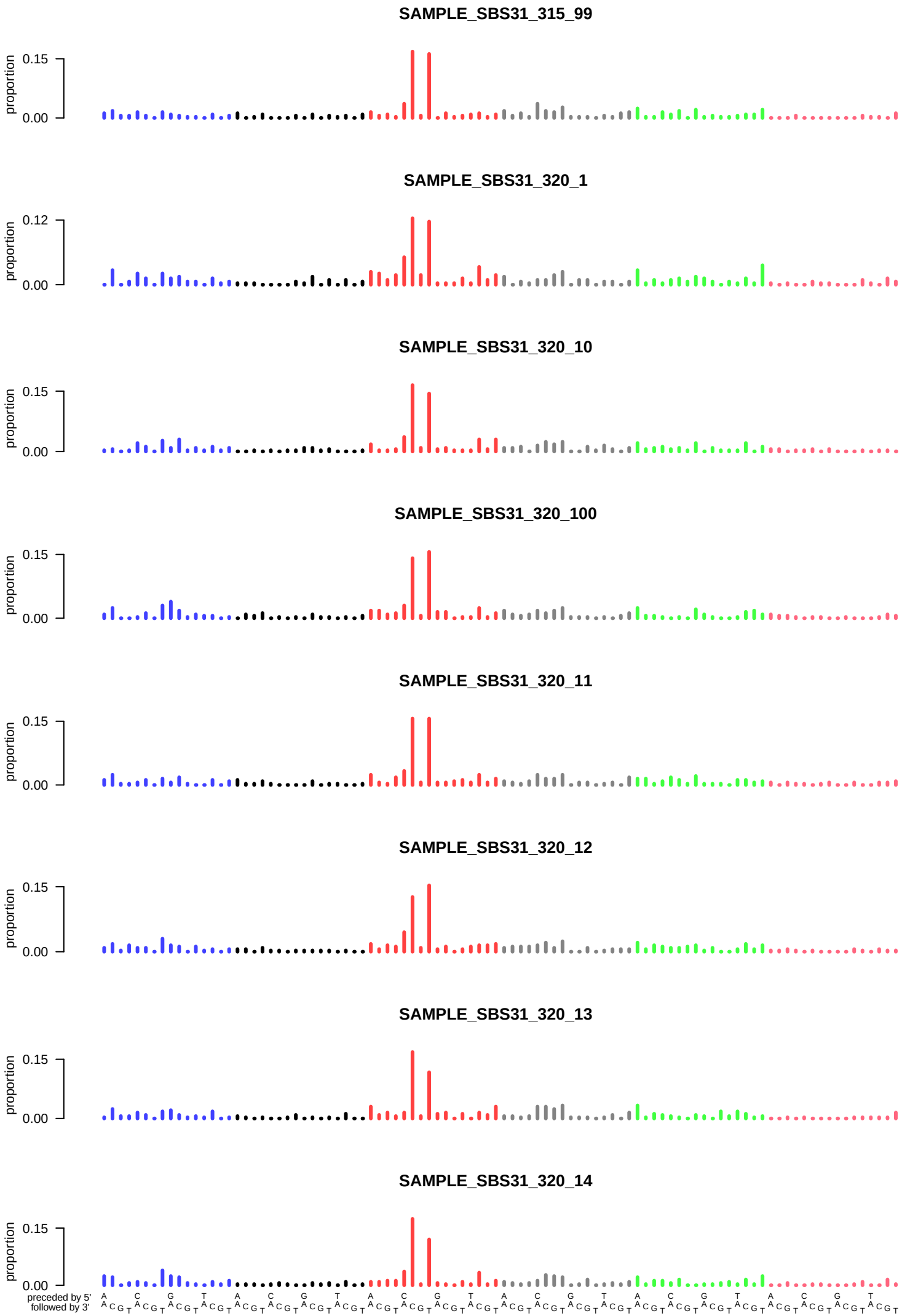
followed by 3'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SAMPLE_SBS31_320_100
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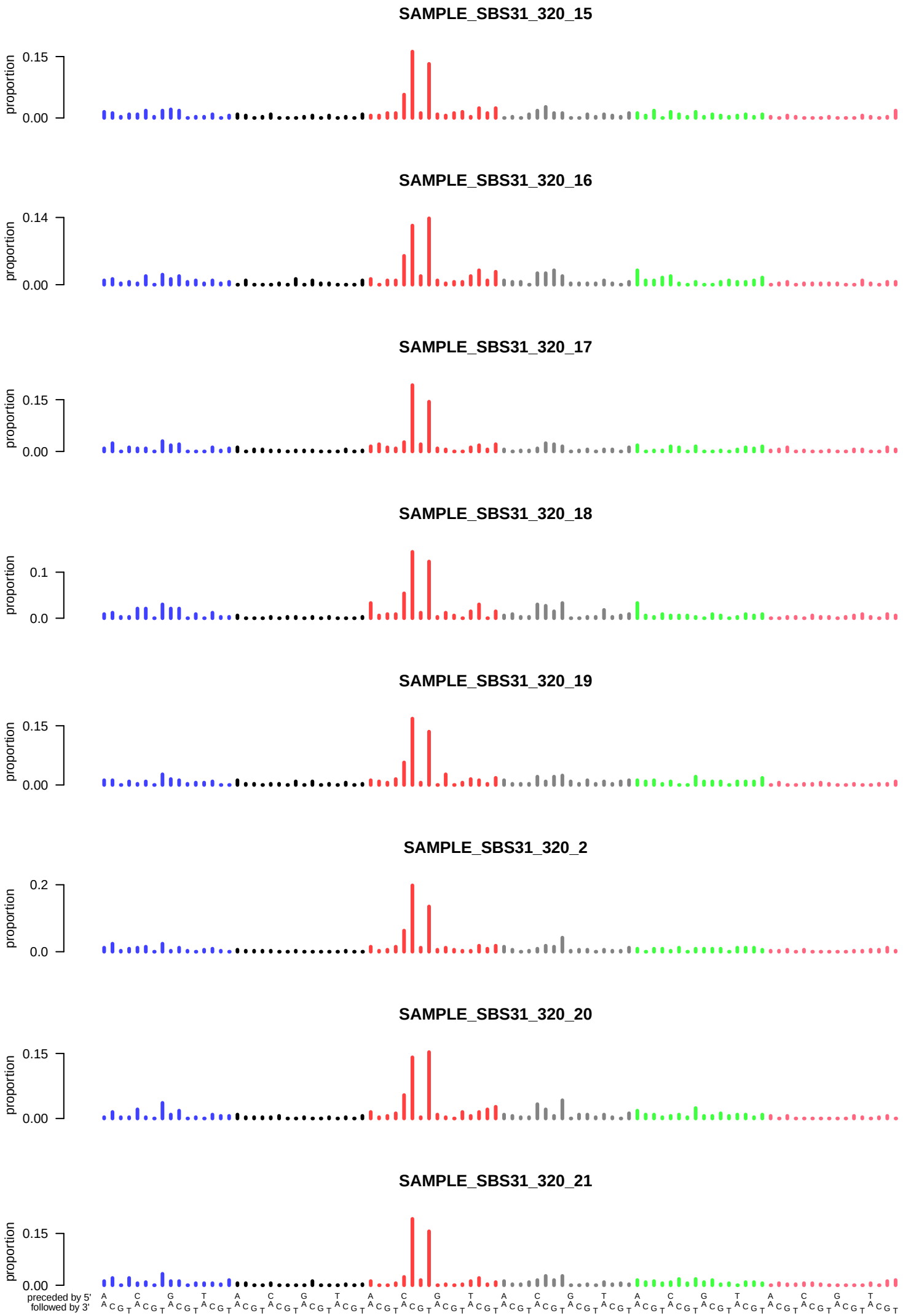
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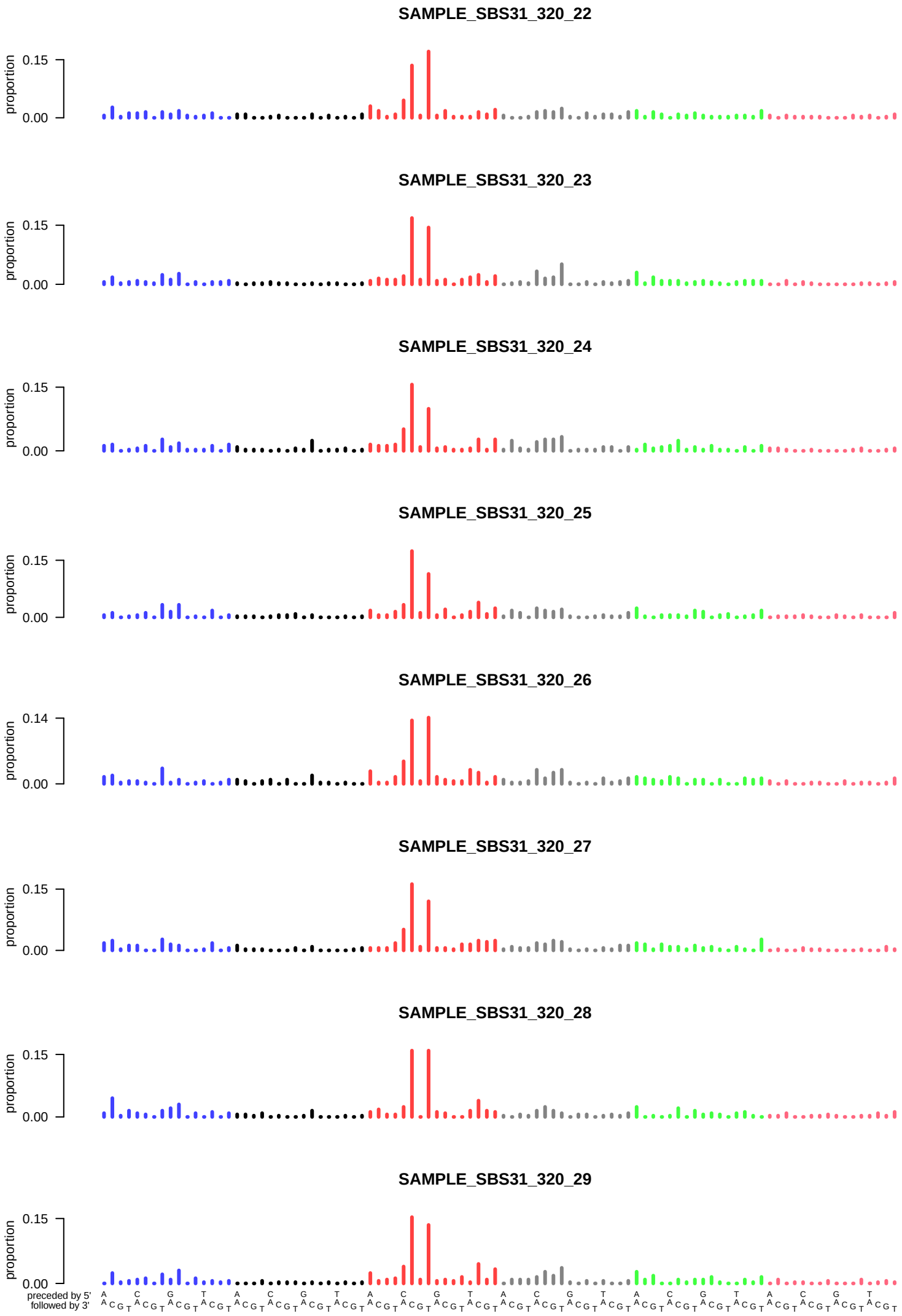
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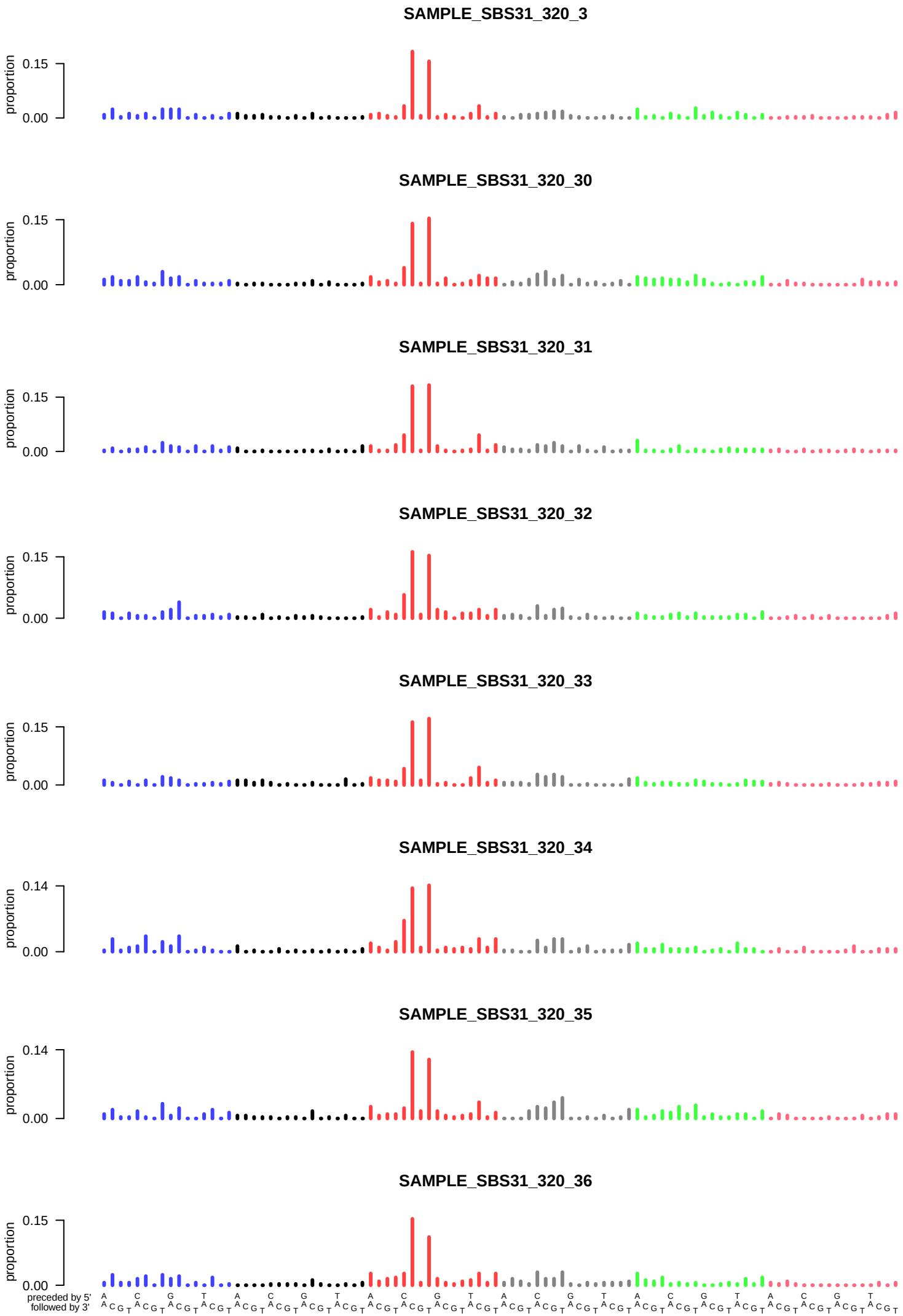
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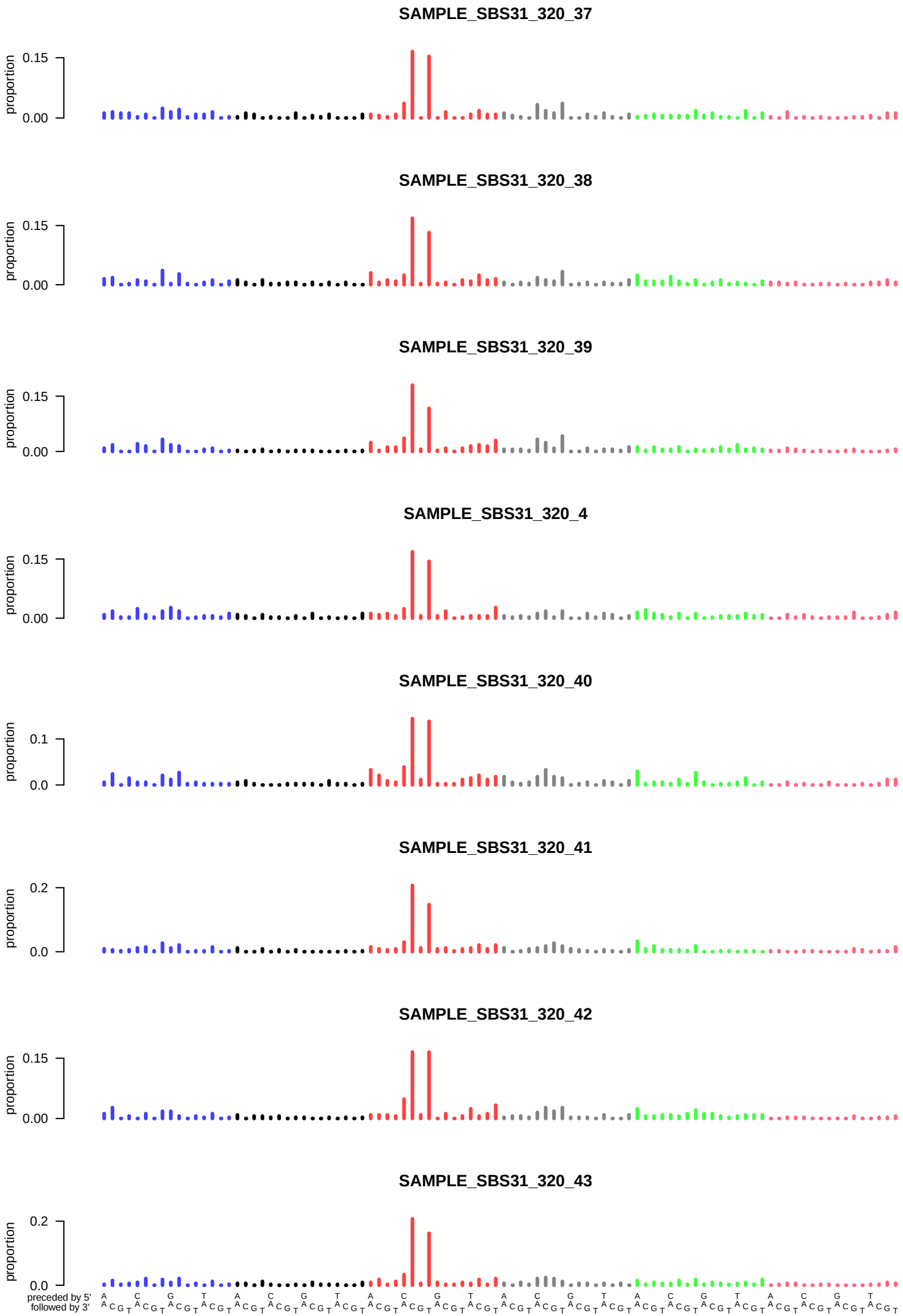
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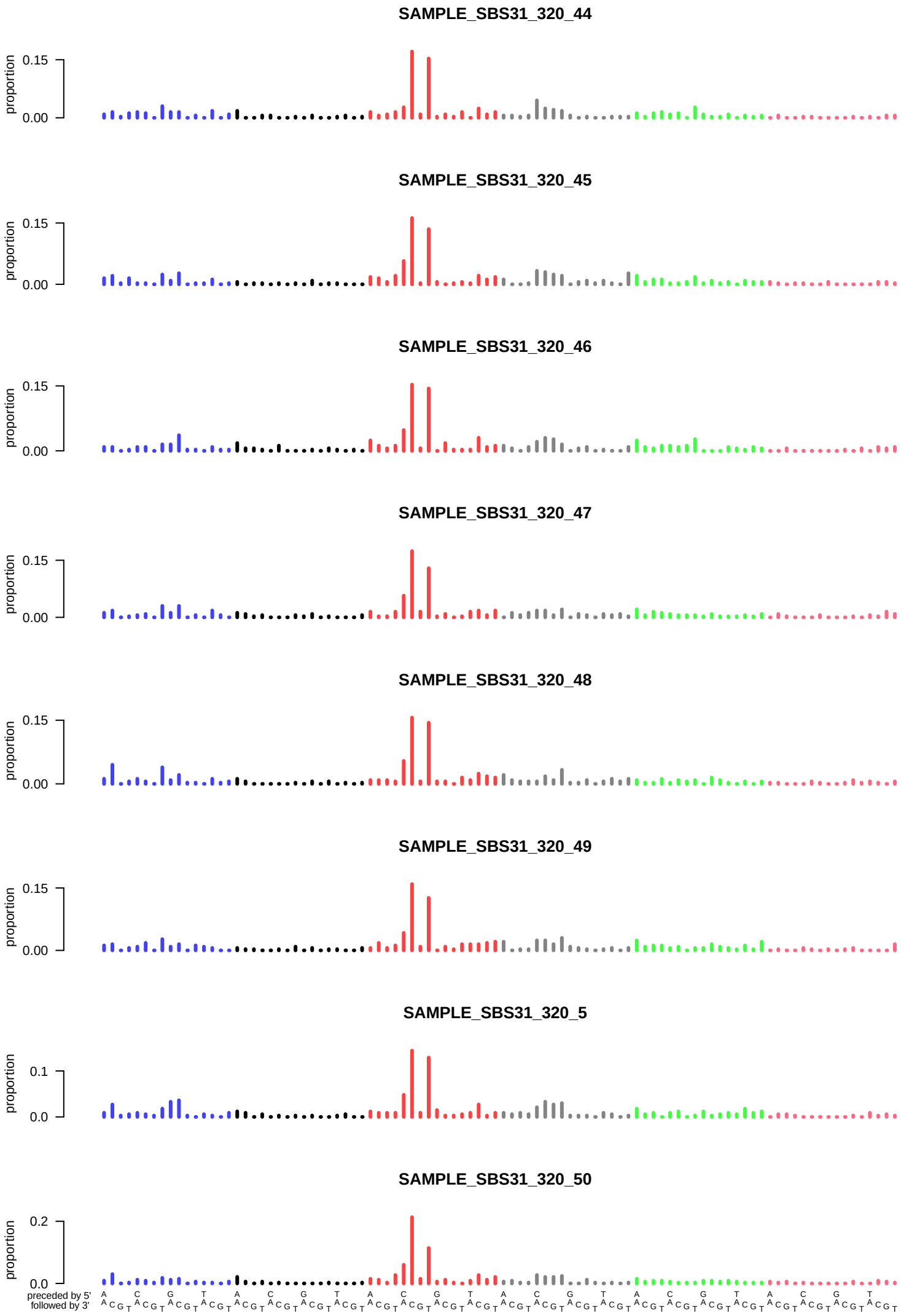
A C G T A C G T A C G T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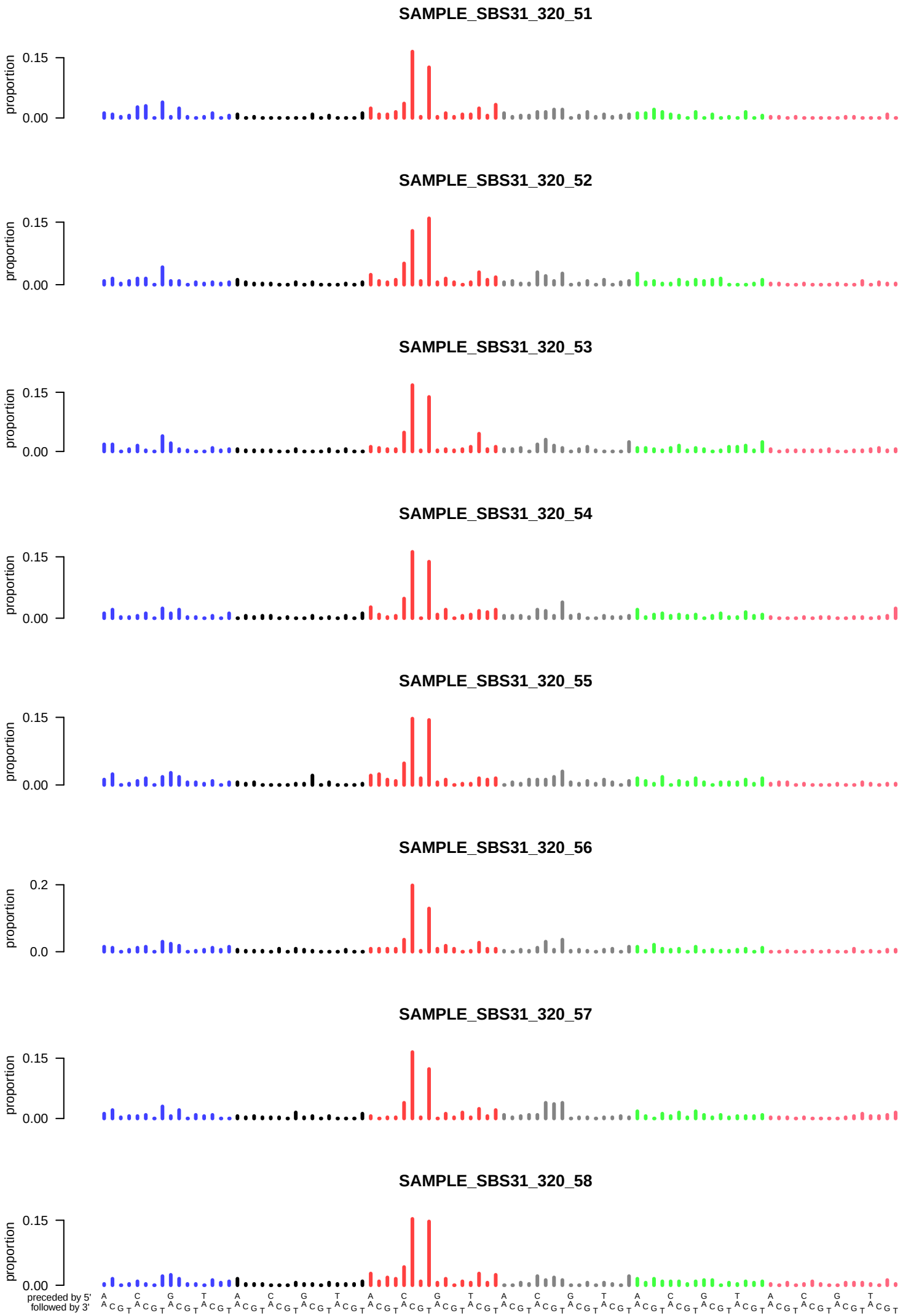
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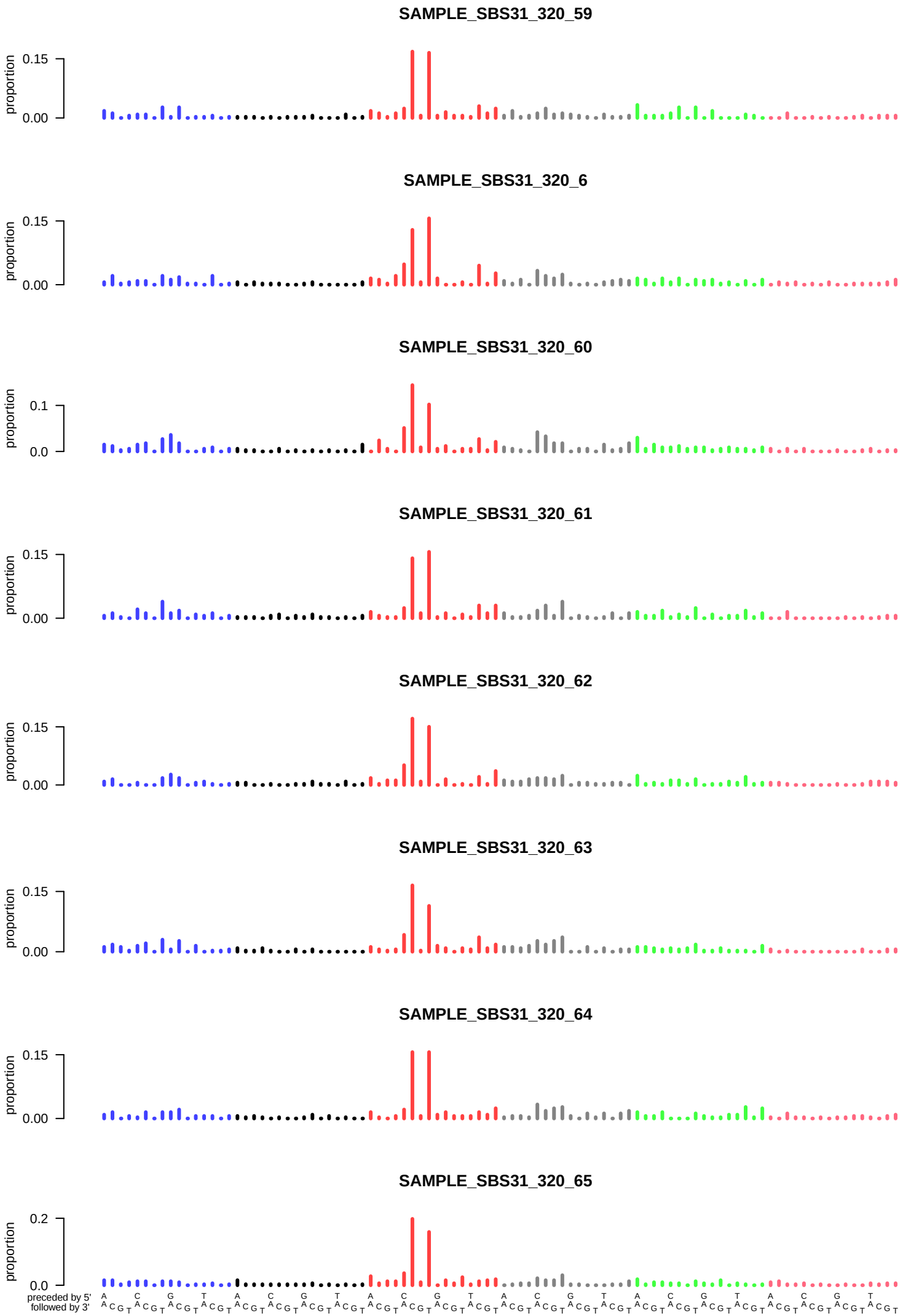
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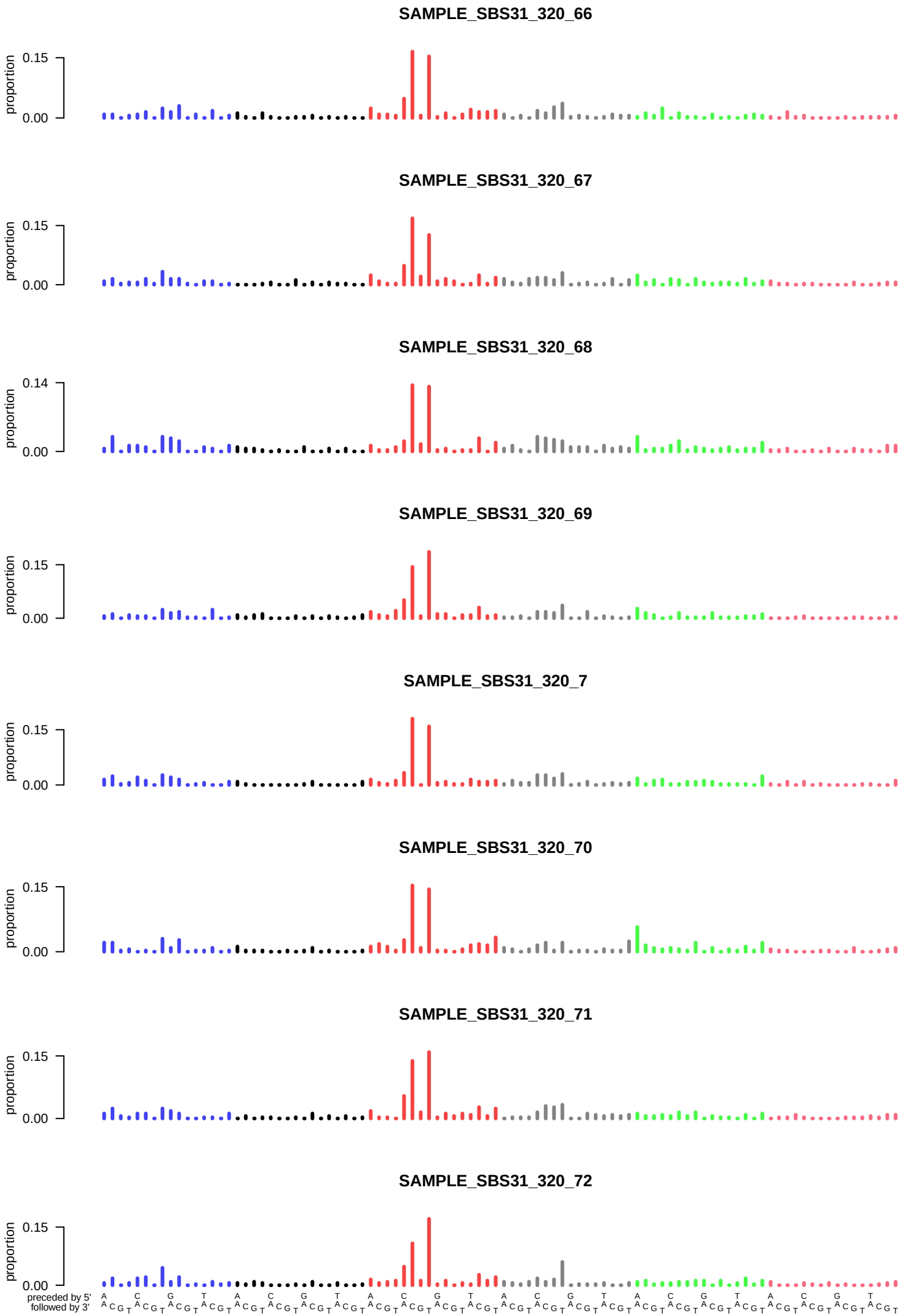
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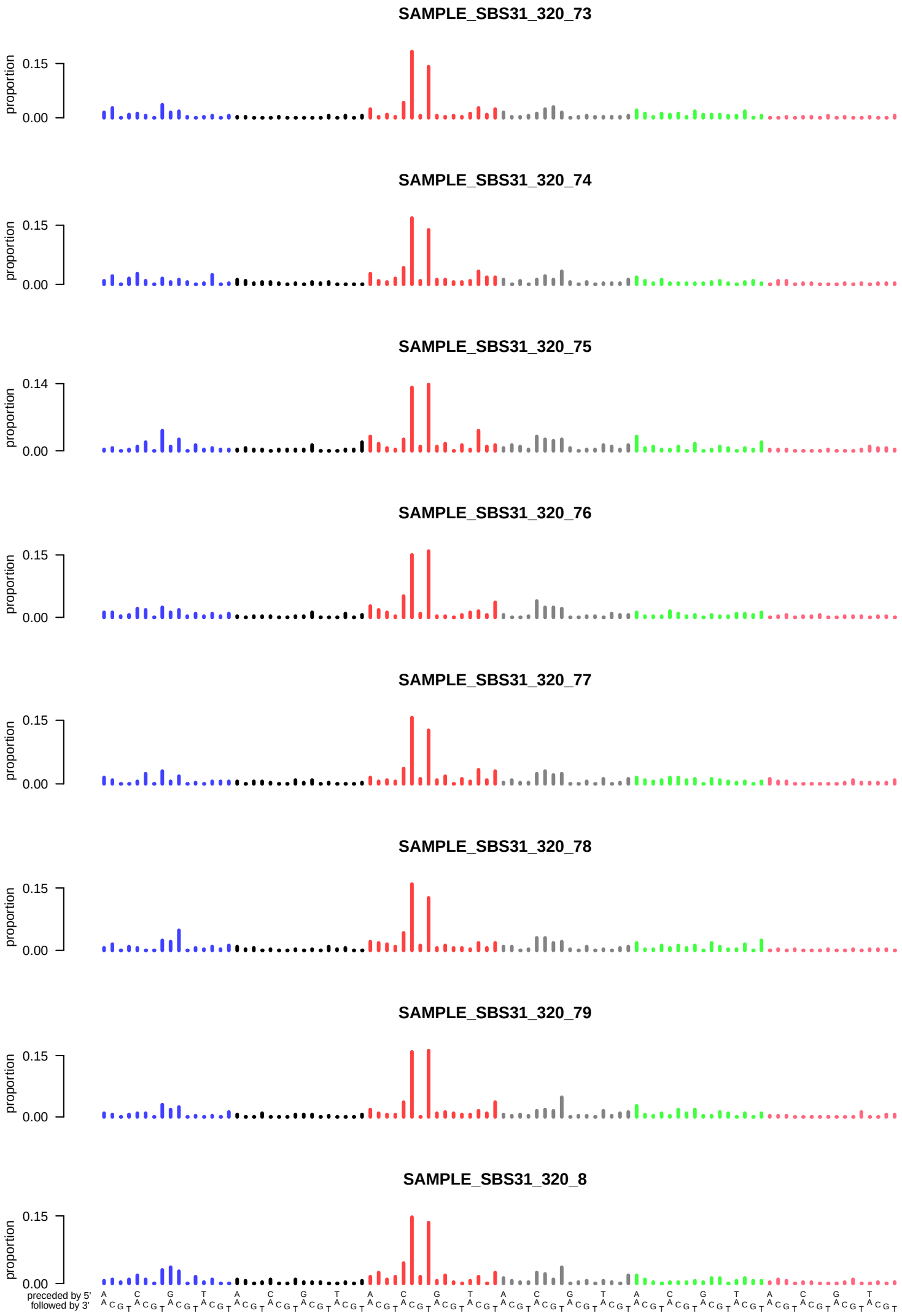
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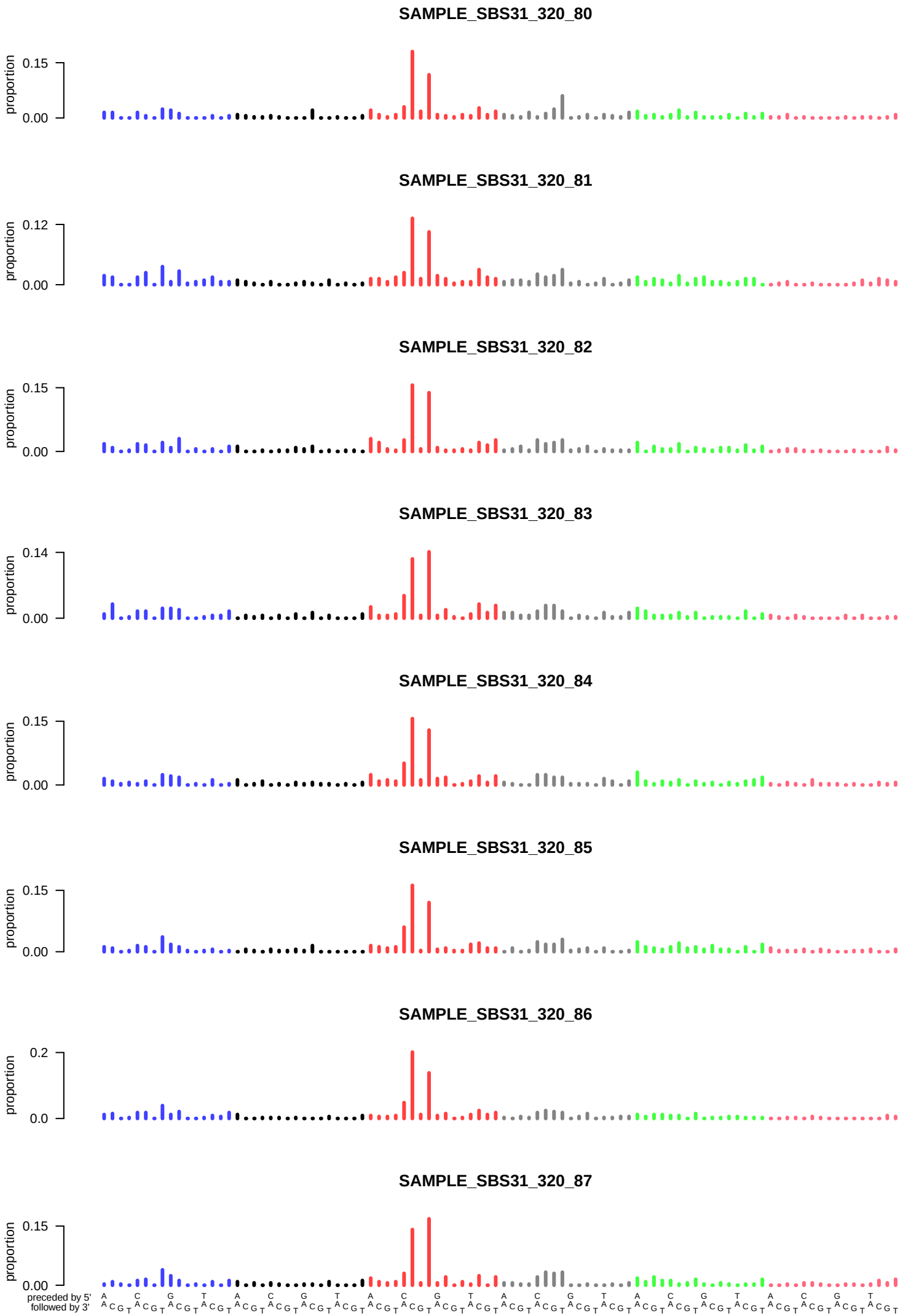
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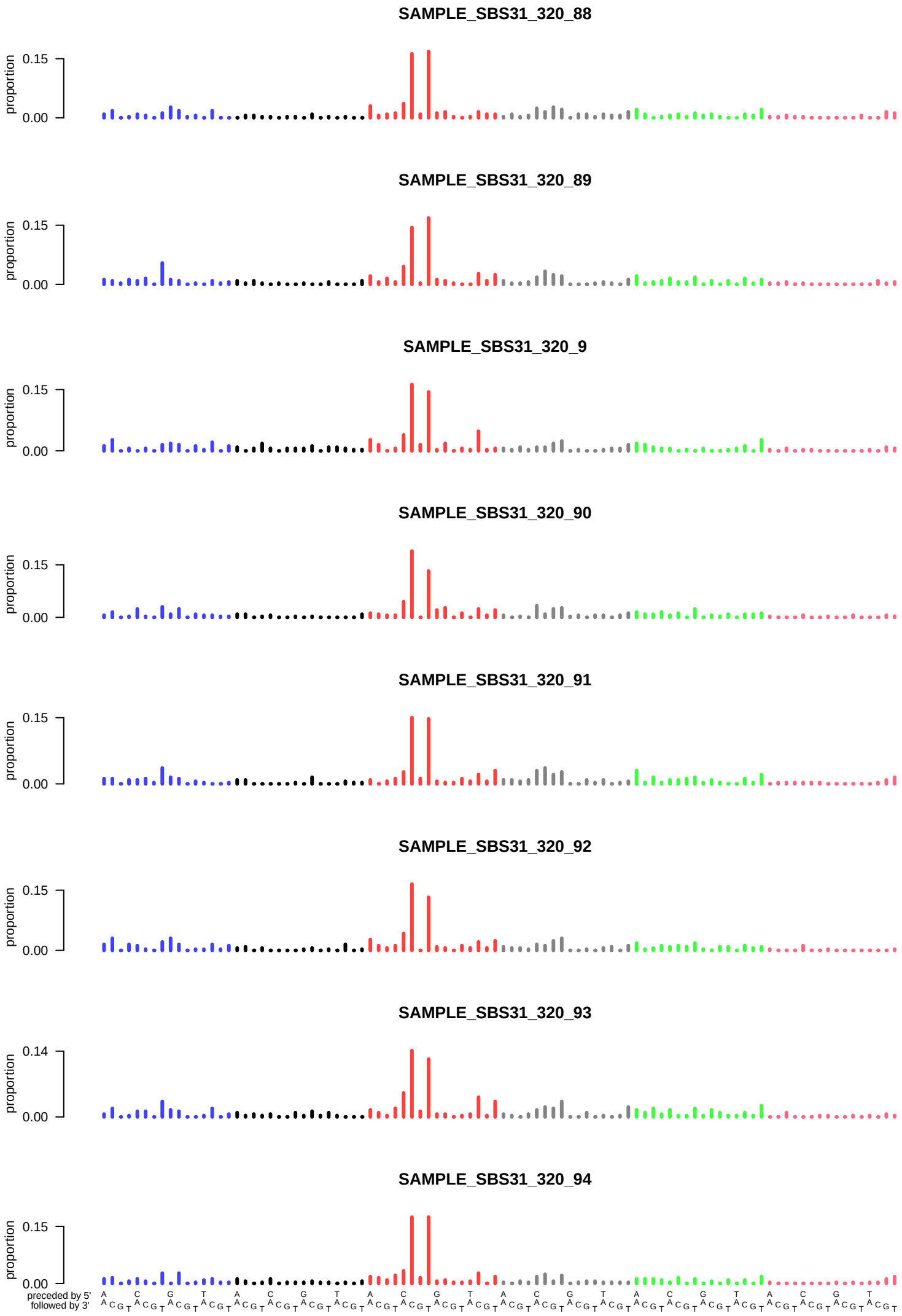
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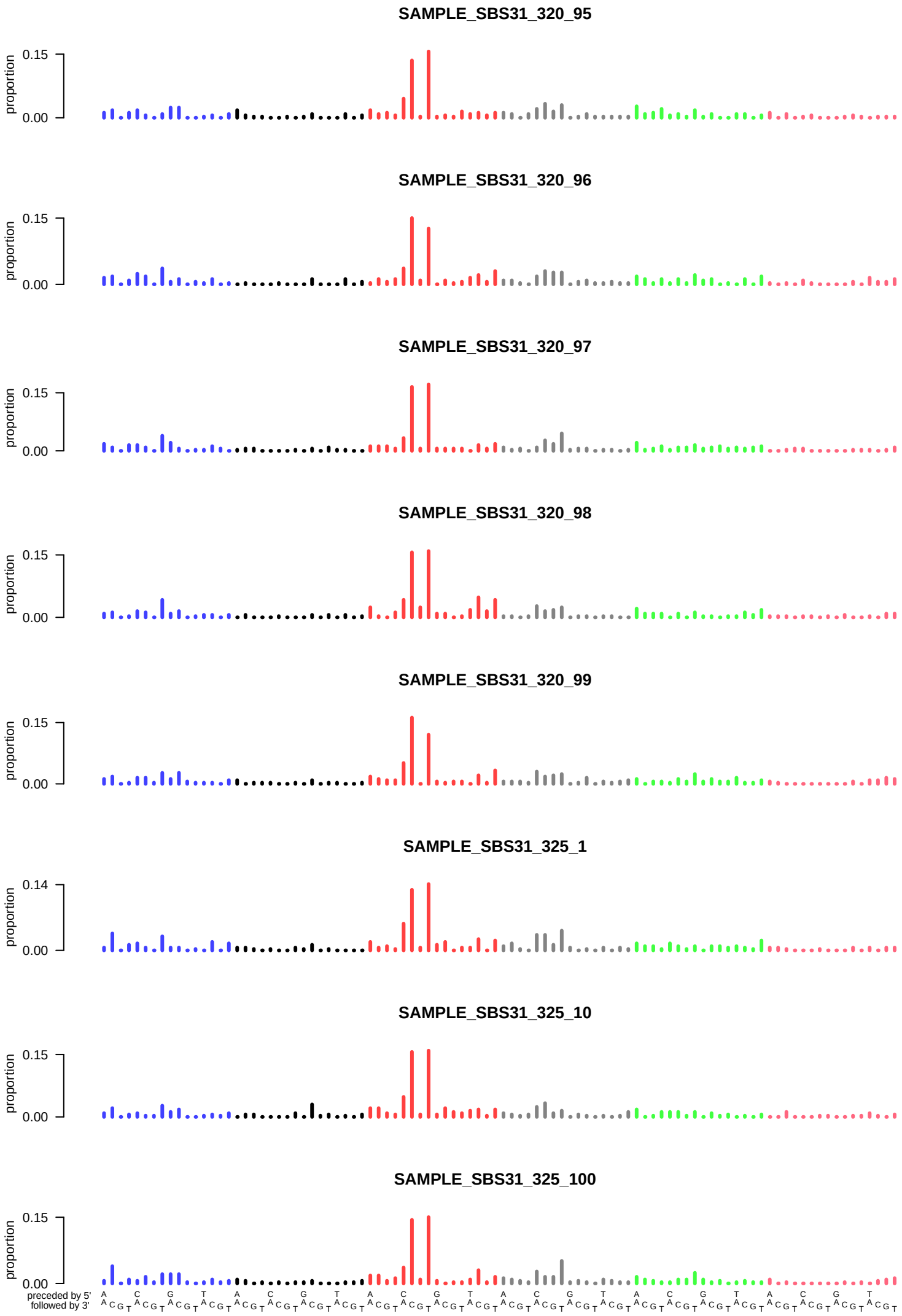
followed by 3'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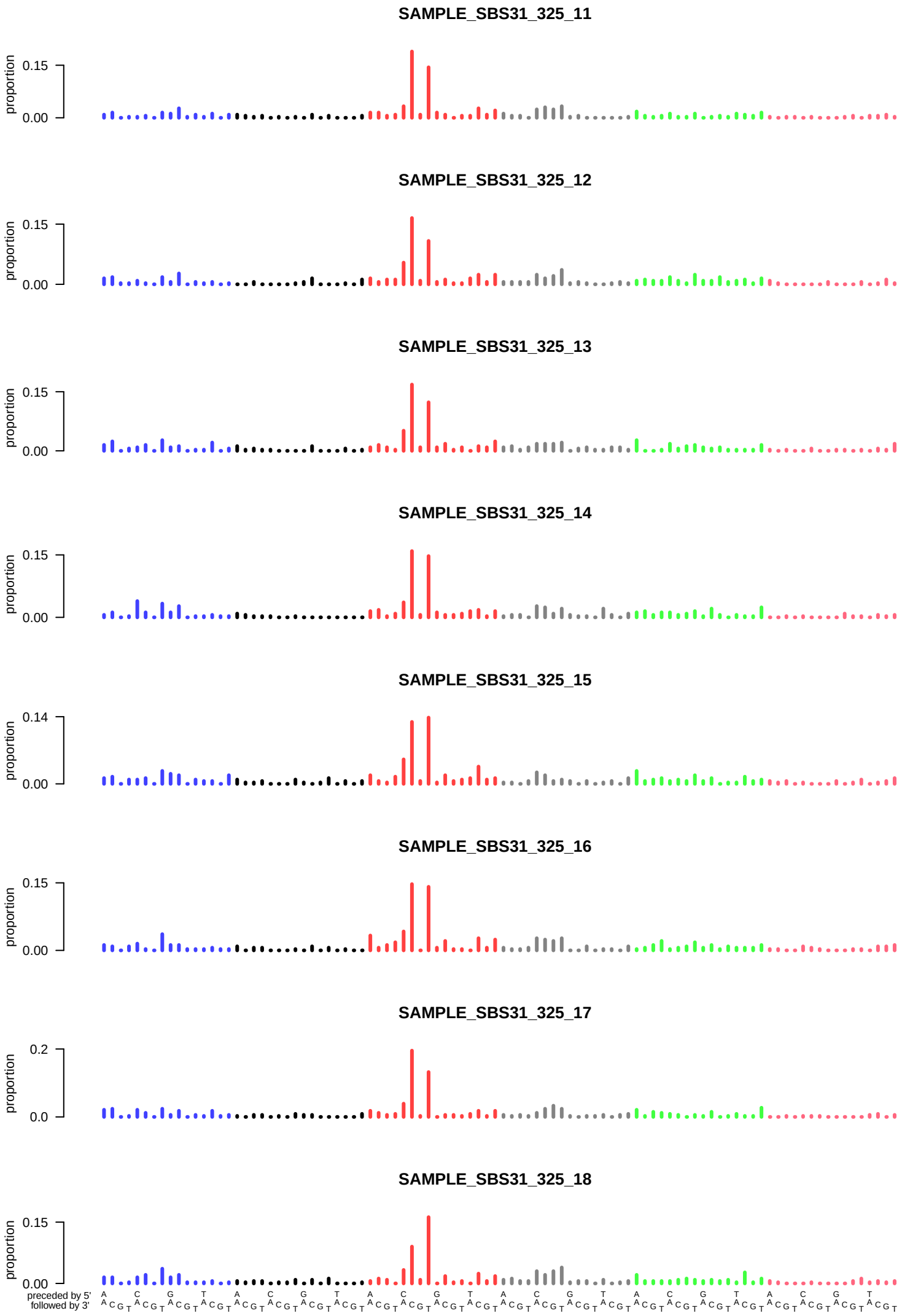
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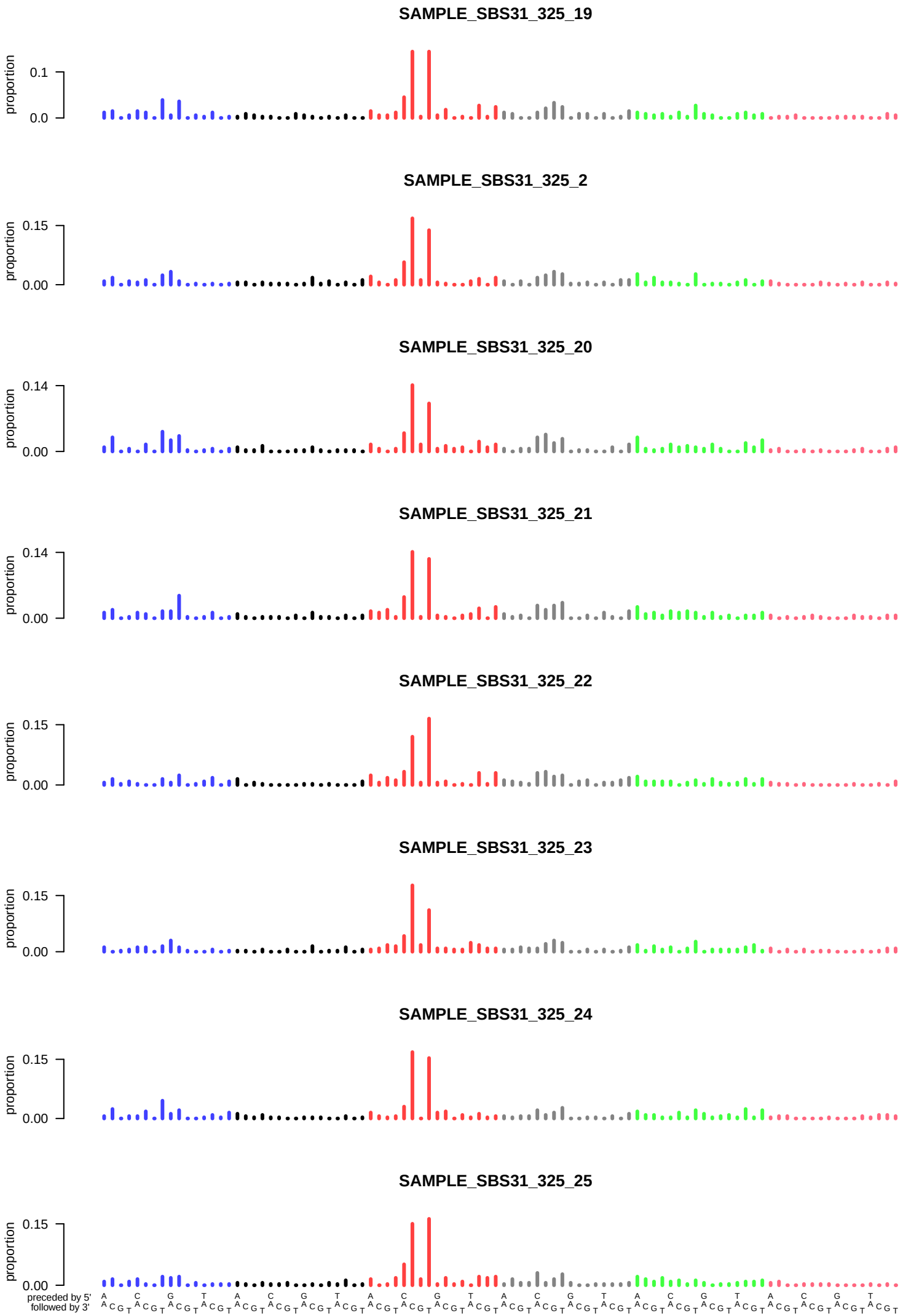
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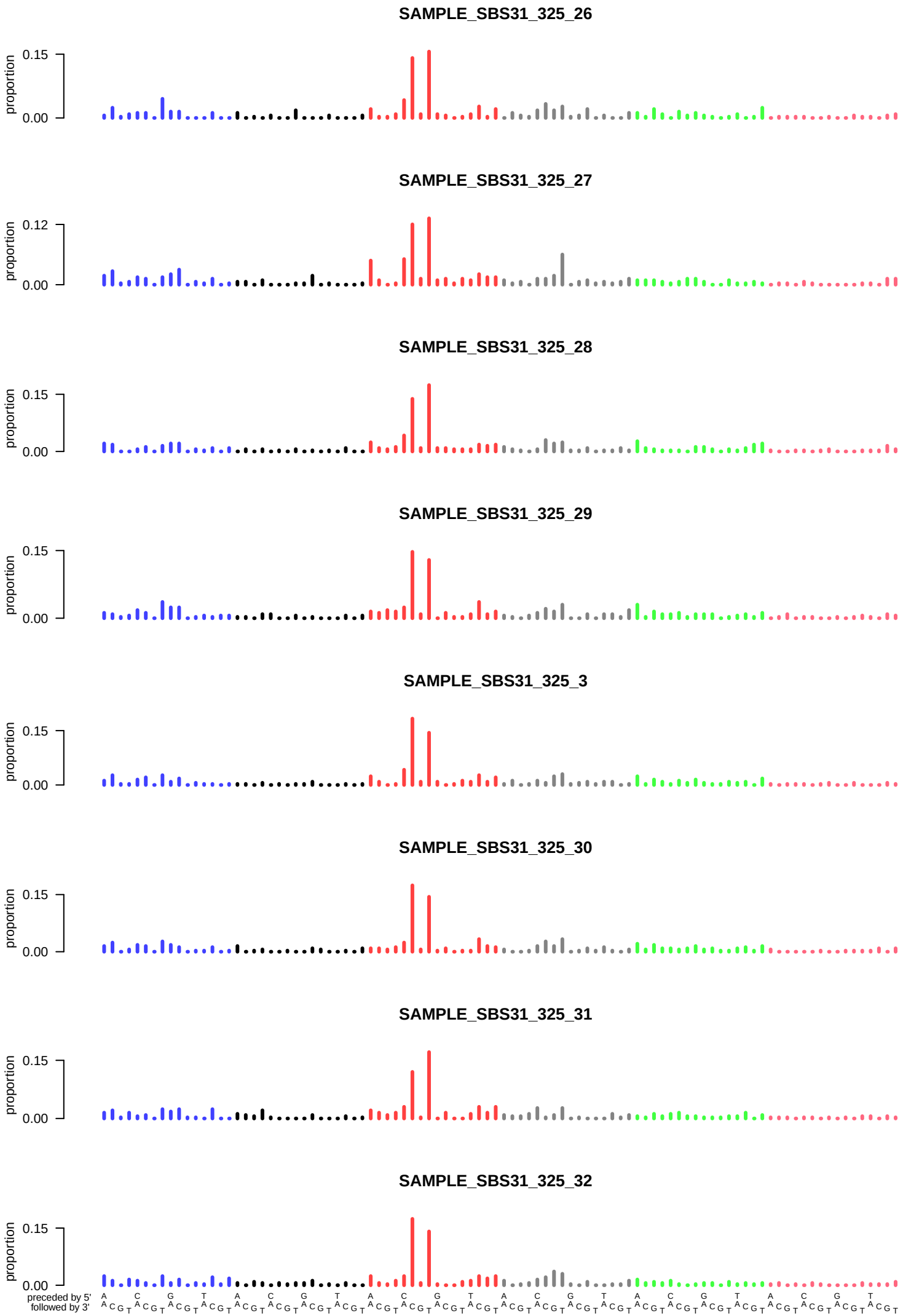
followed by 3'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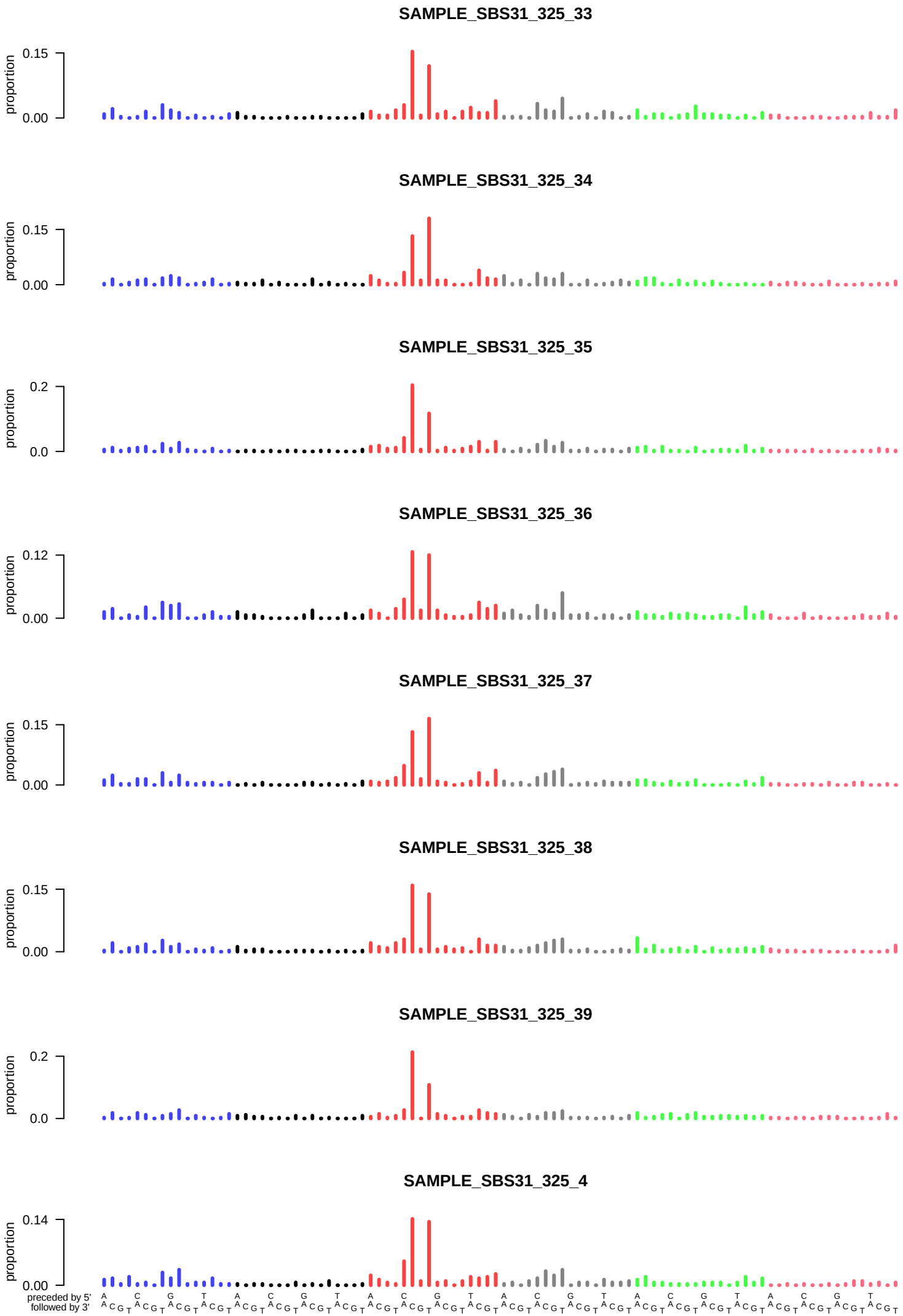
followed by 3'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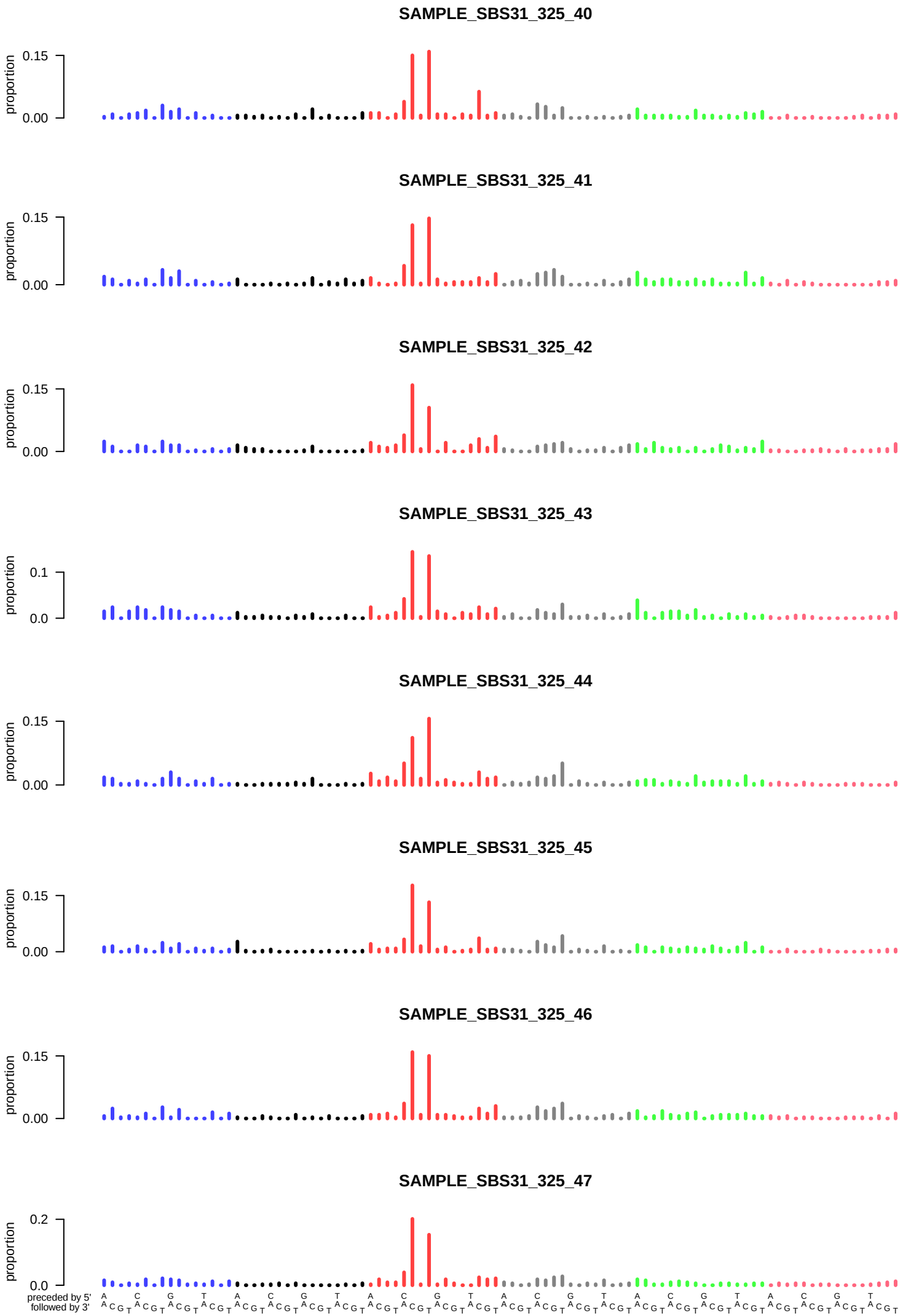
followed by 3'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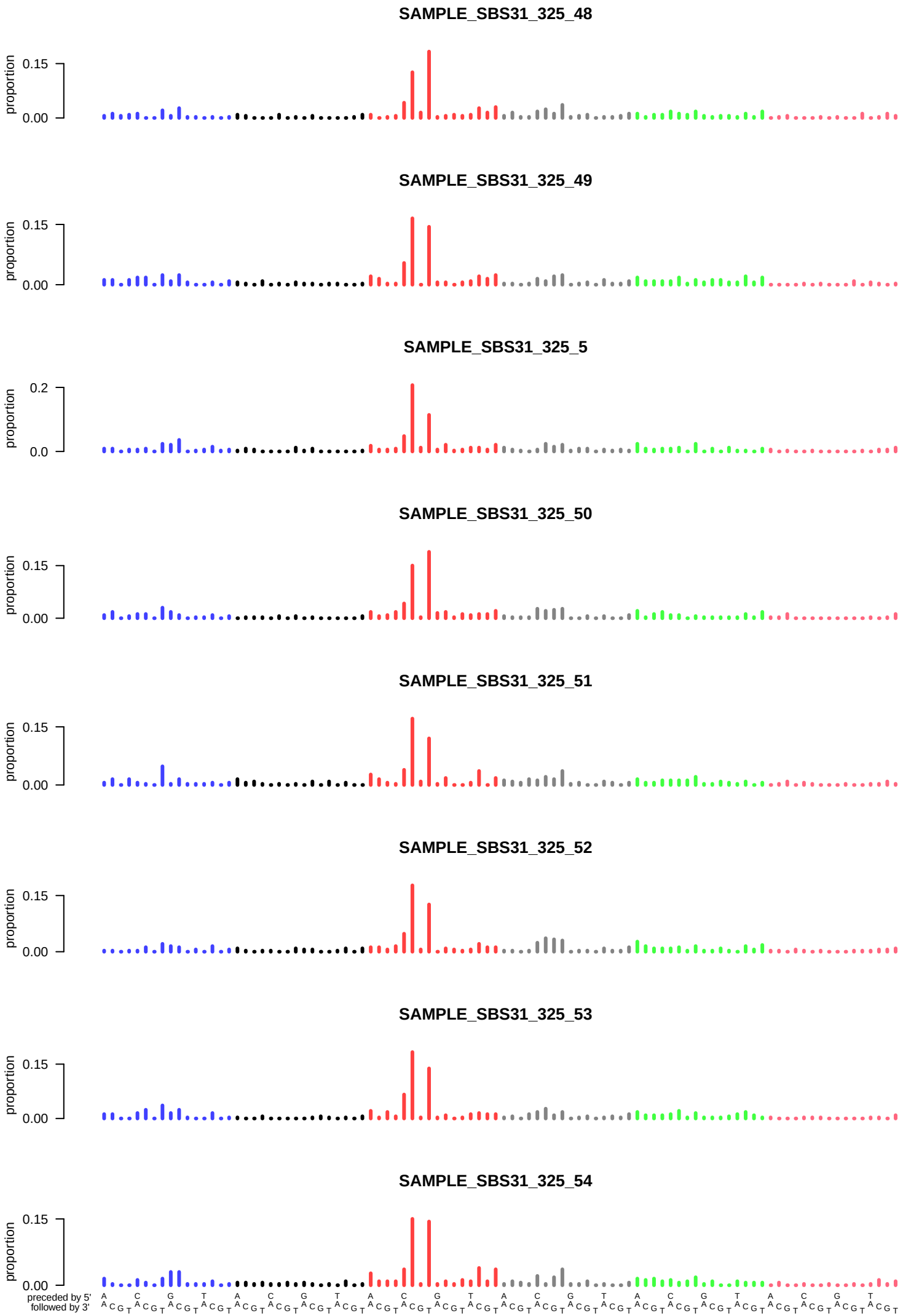
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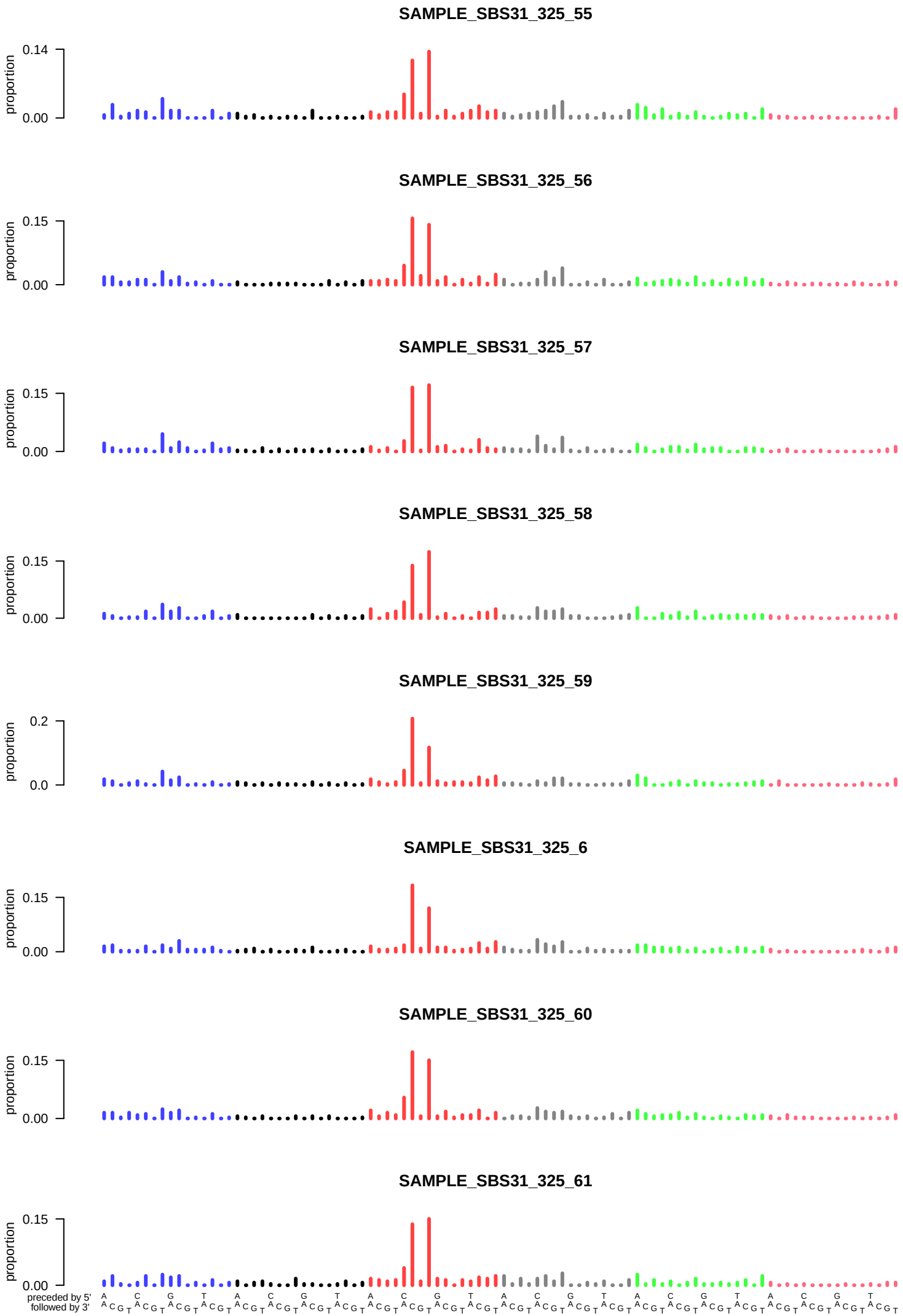
preceded by 5'
followed by 3'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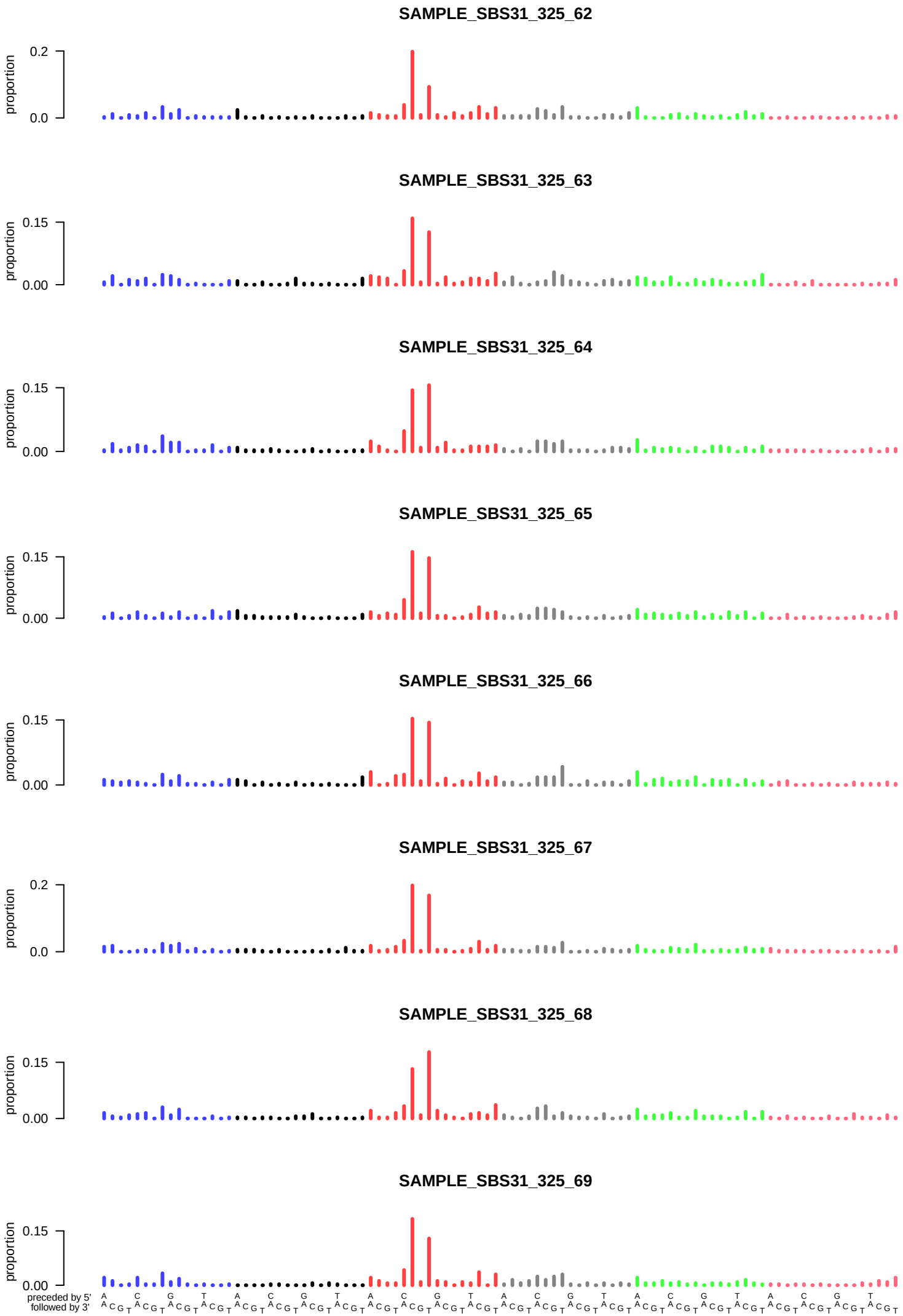
preceded by 5'
followed by 3'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SAMPLE_SBS31_325_67
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SAMPLE_SBS31_325_68
proportion
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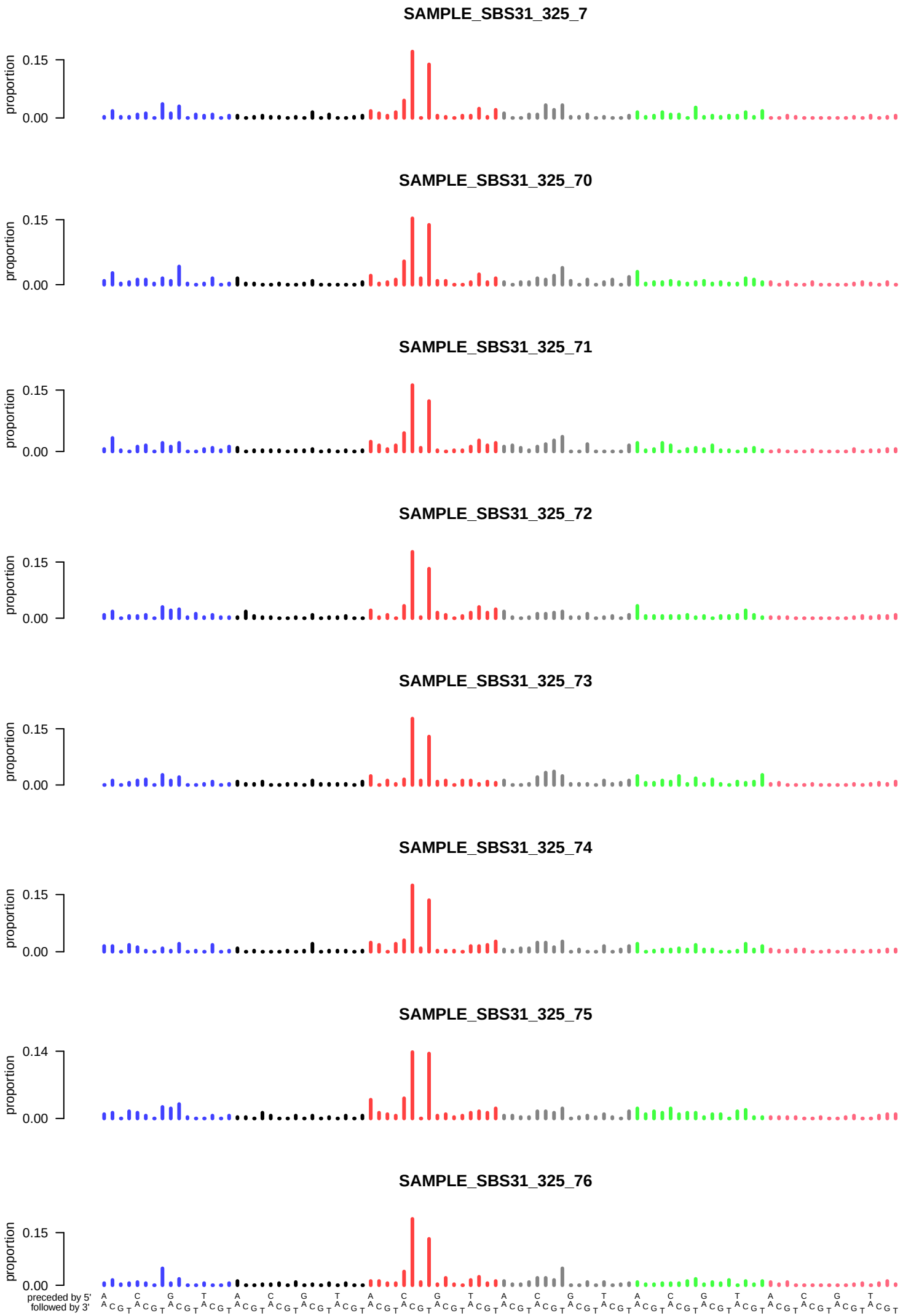
preceded by 5'
followed by 3'
A C G T A C G T A C G T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SAMPLE_SBS31_325_73
SAMPLE_SBS31_325_74
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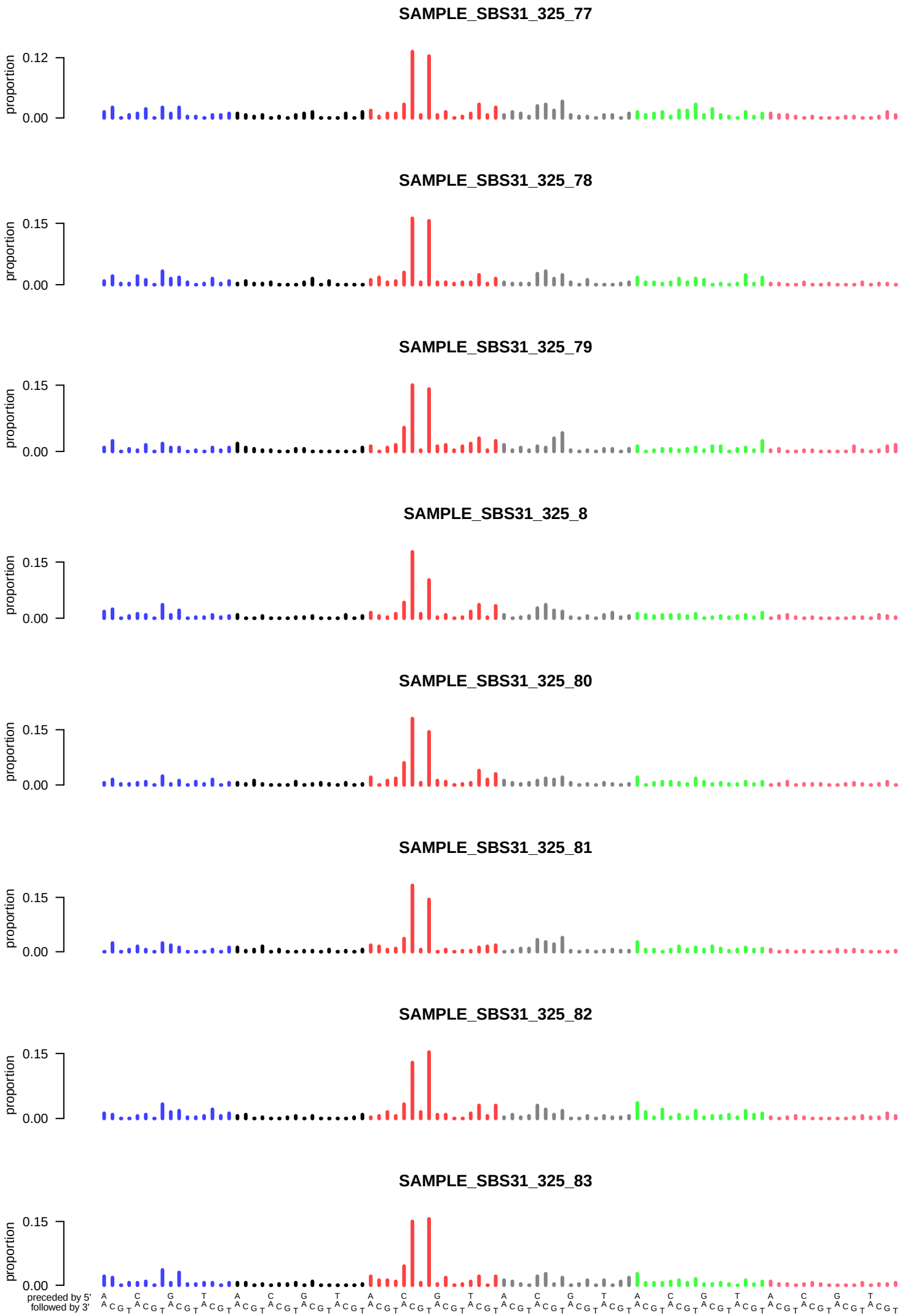
preceded by 5'
followed by 3'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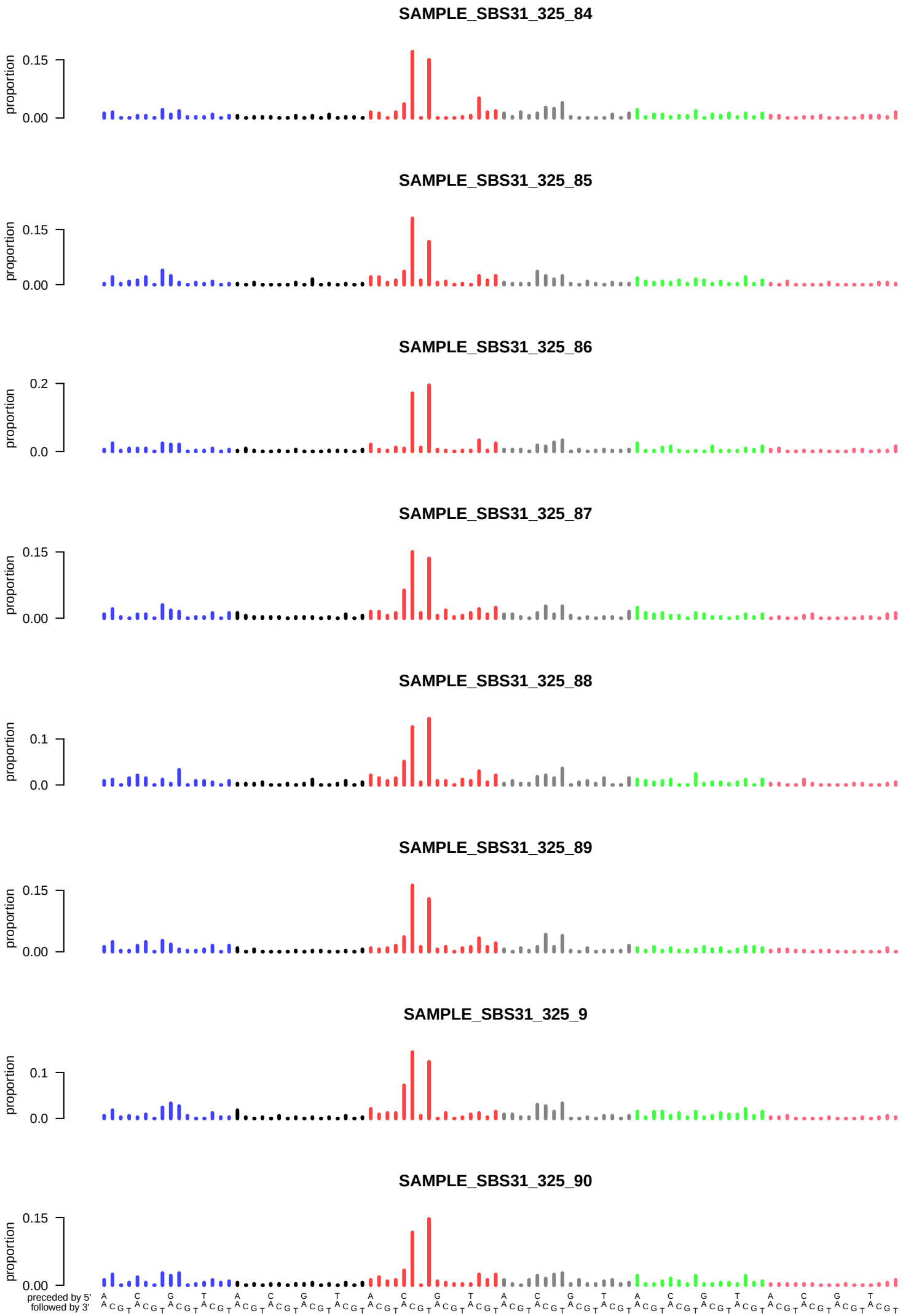
followed by 3'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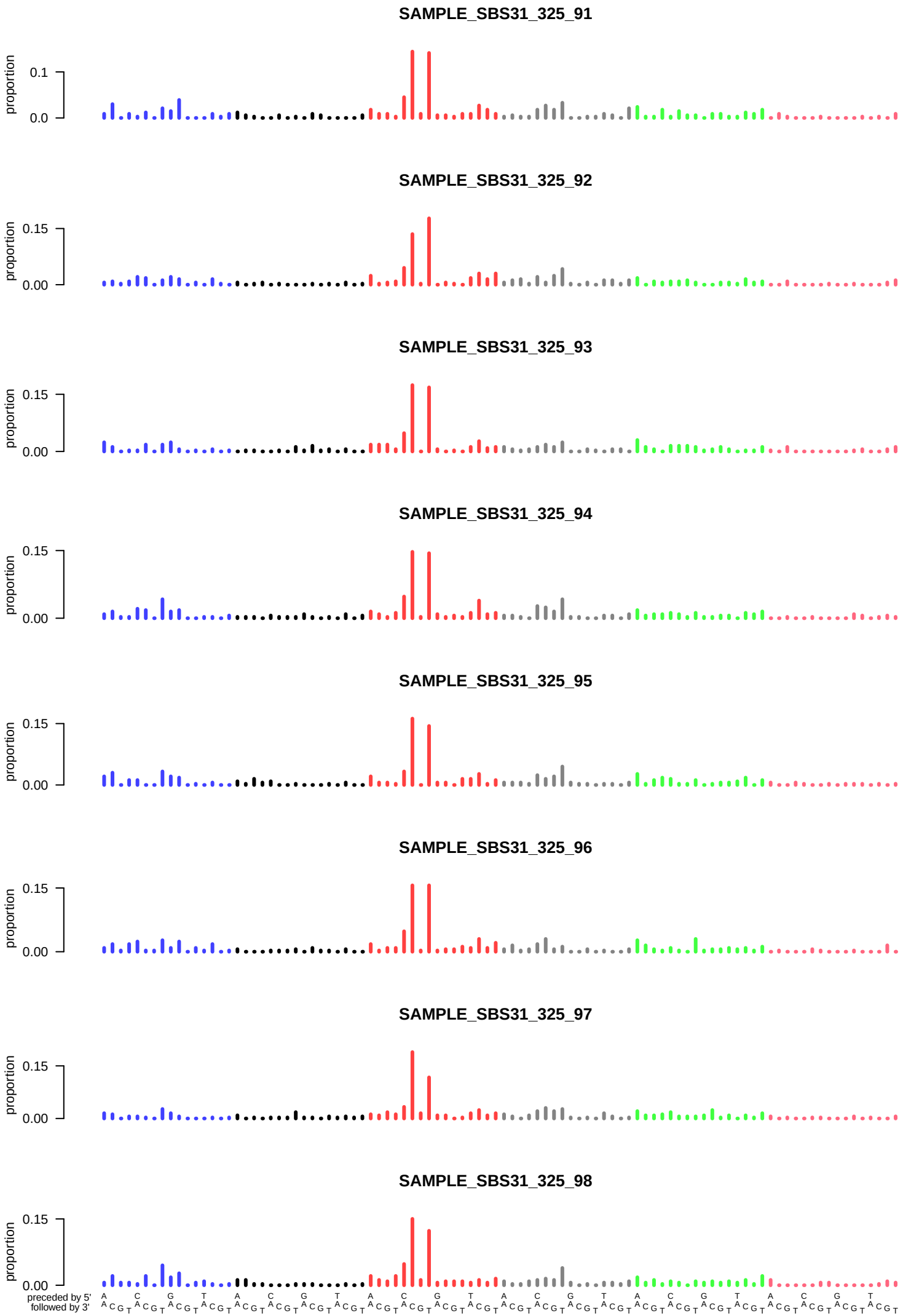
followed by 3'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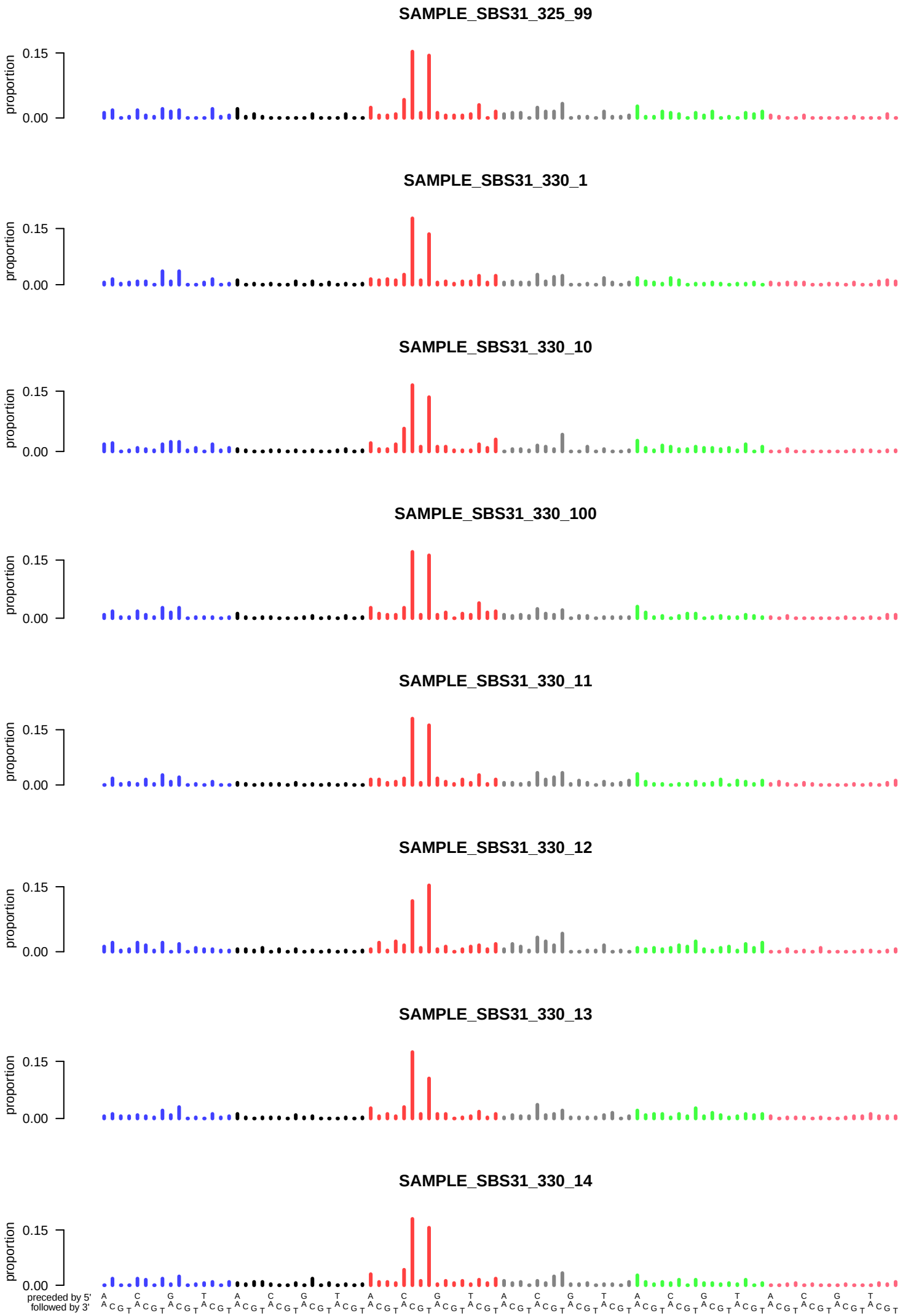
followed by 3'
A C G T A C G T A C G T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SAMPLE_SBS31_330_11
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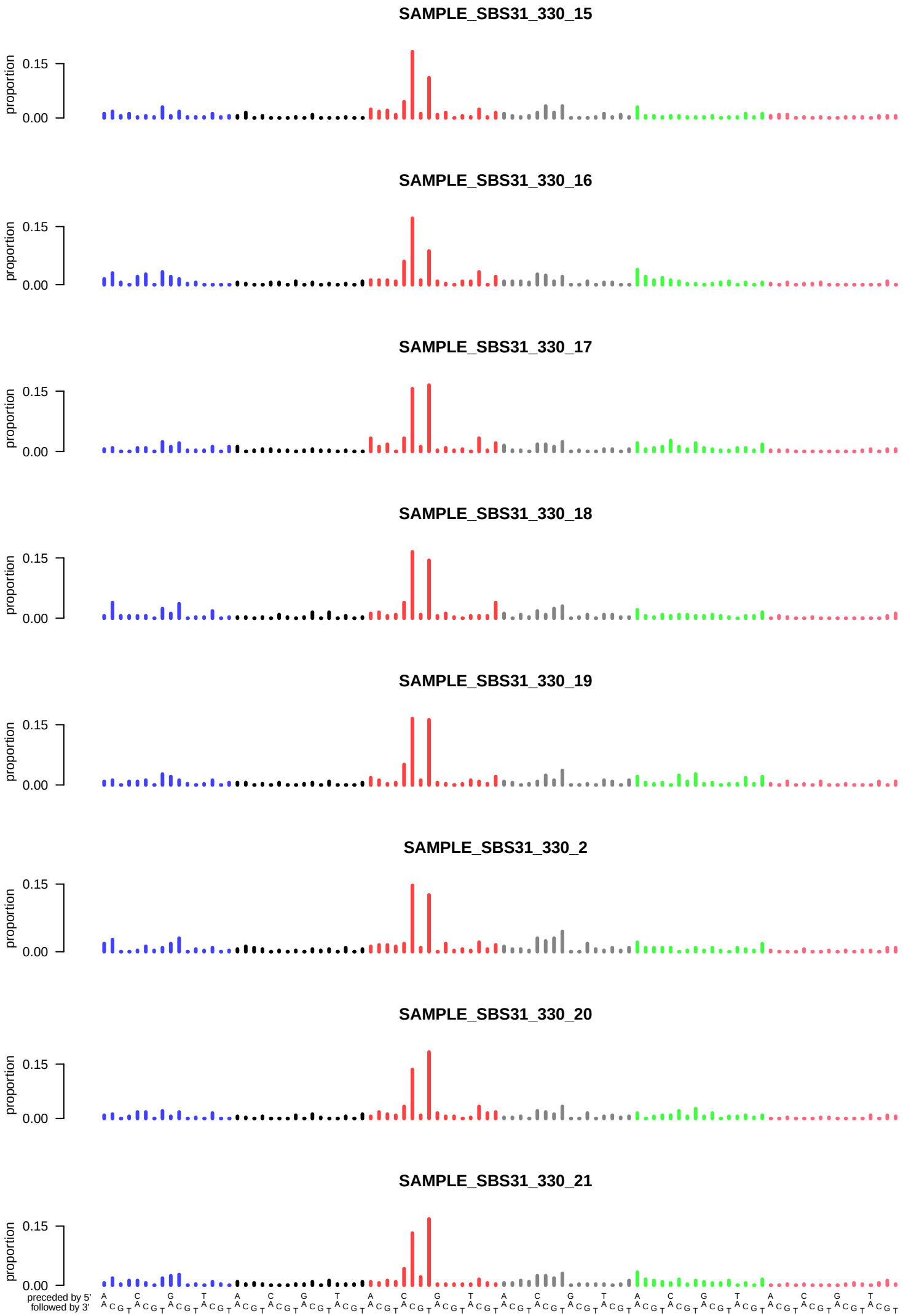
followed by 3'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SAMPLE_SBS31_330_19
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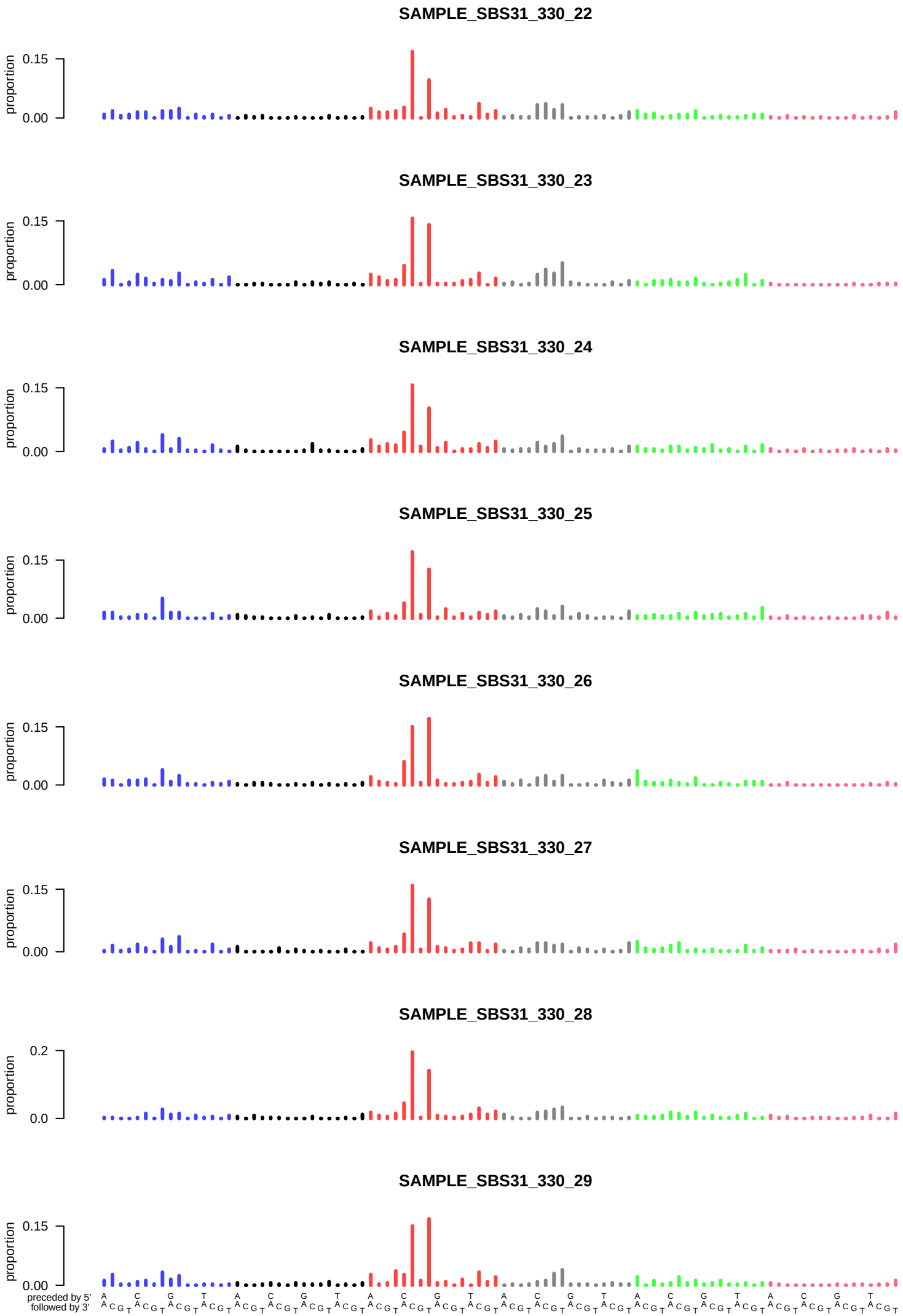
followed by 3'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SAMPLE_SBS31_330_28
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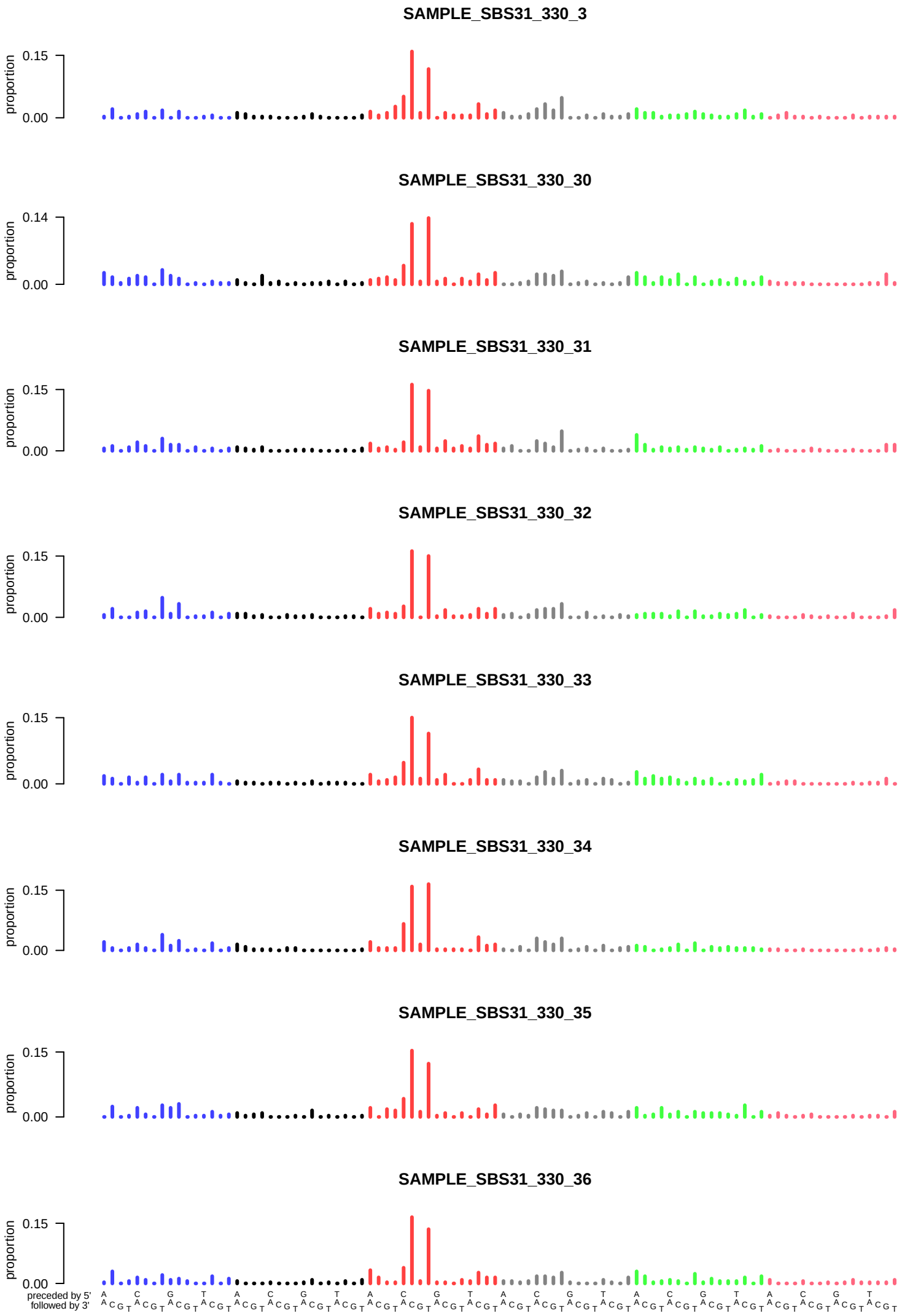
followed by 3'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SAMPLE_SBS31_330_34
SAMPLE_SBS31_330_35
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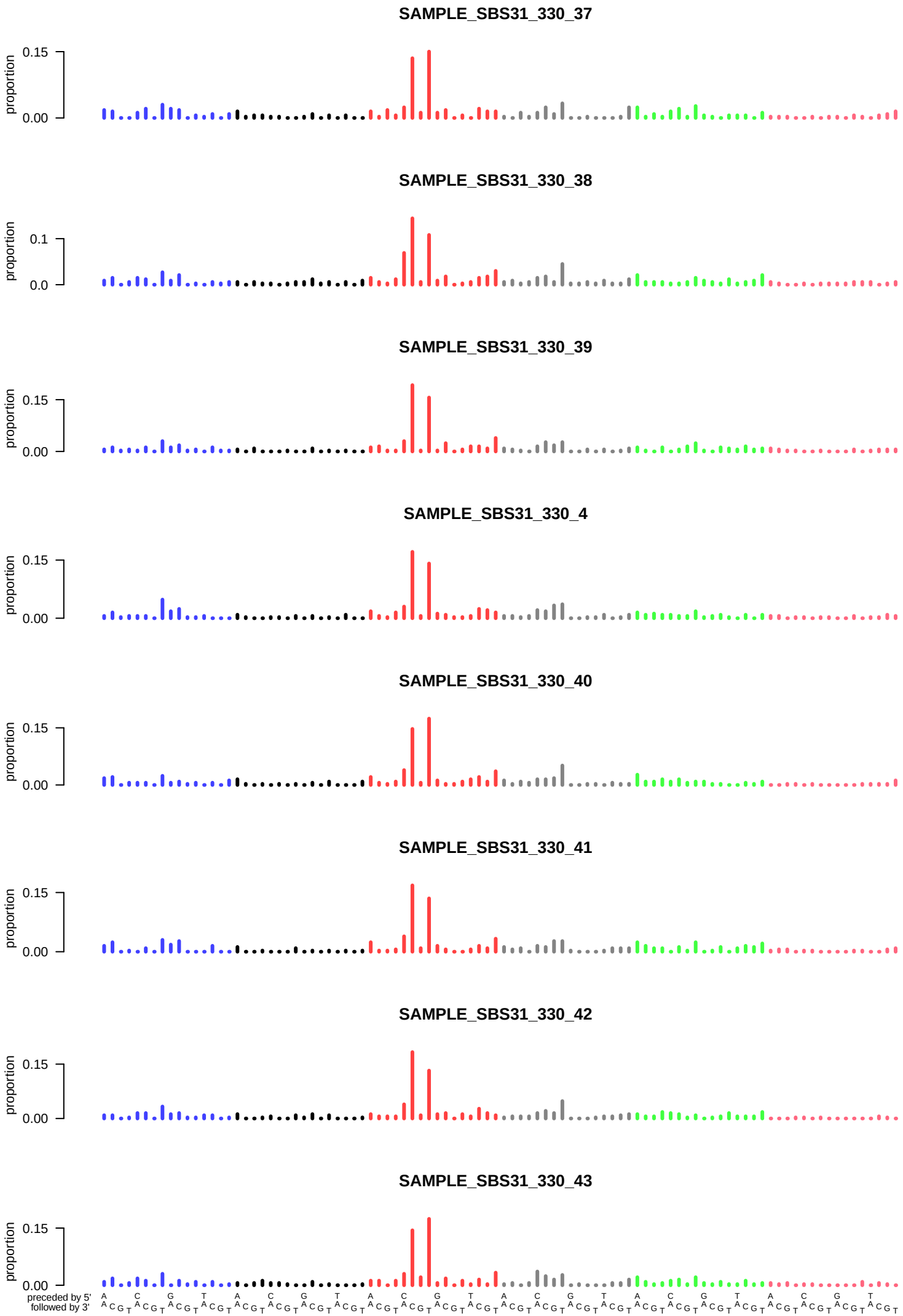
followed by 3'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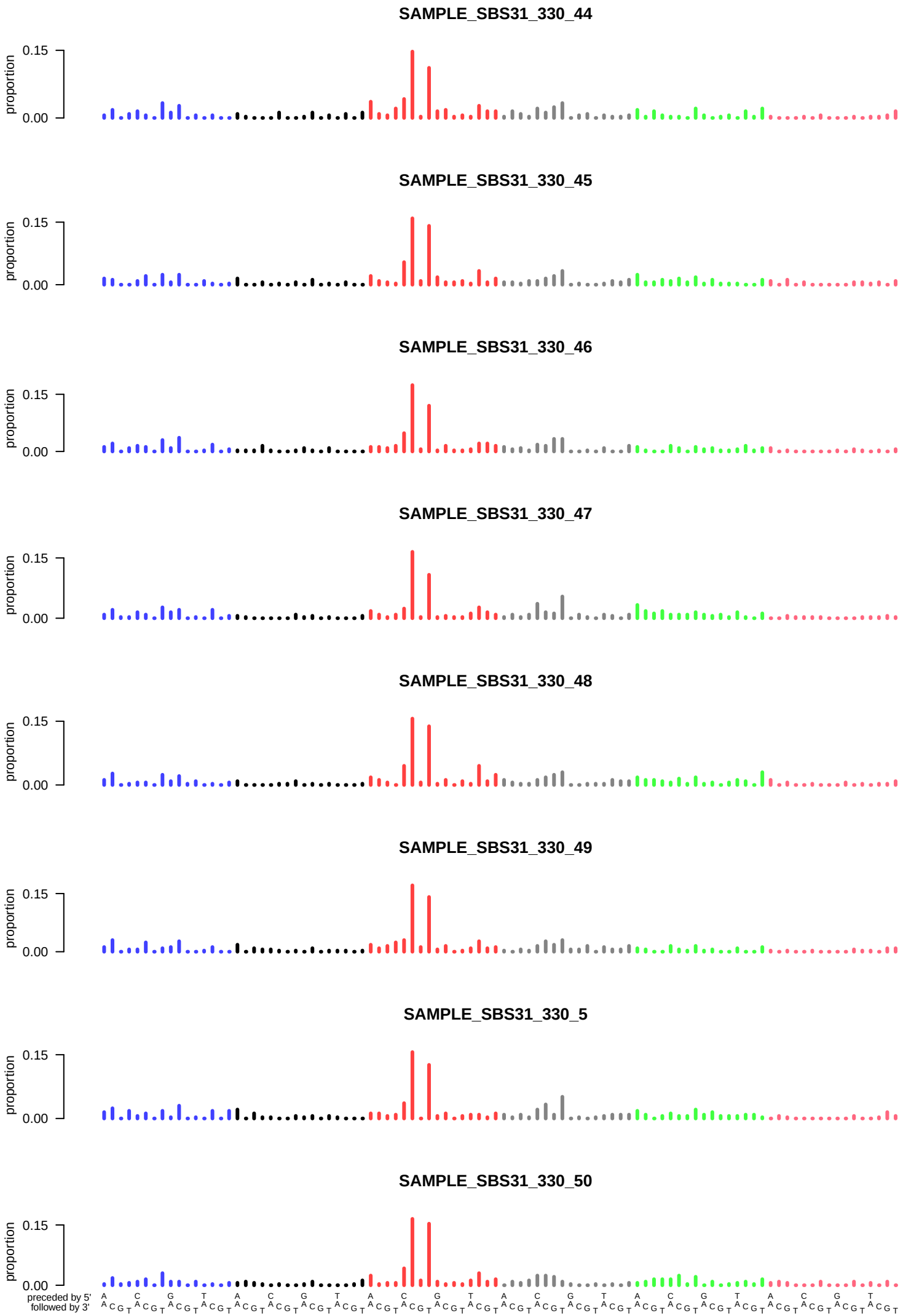
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SAMPLE_SBS31_330_48
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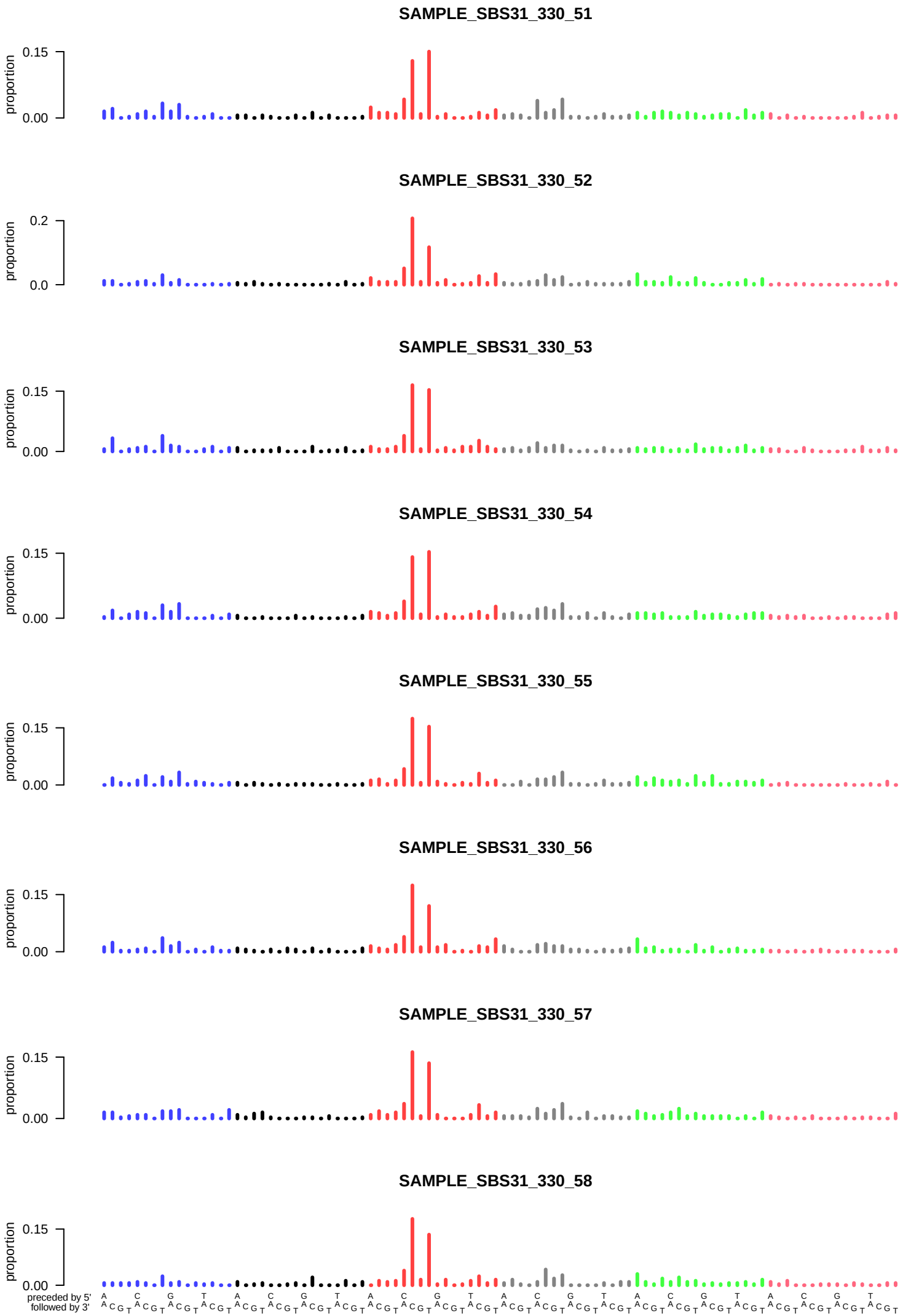
followed by 3'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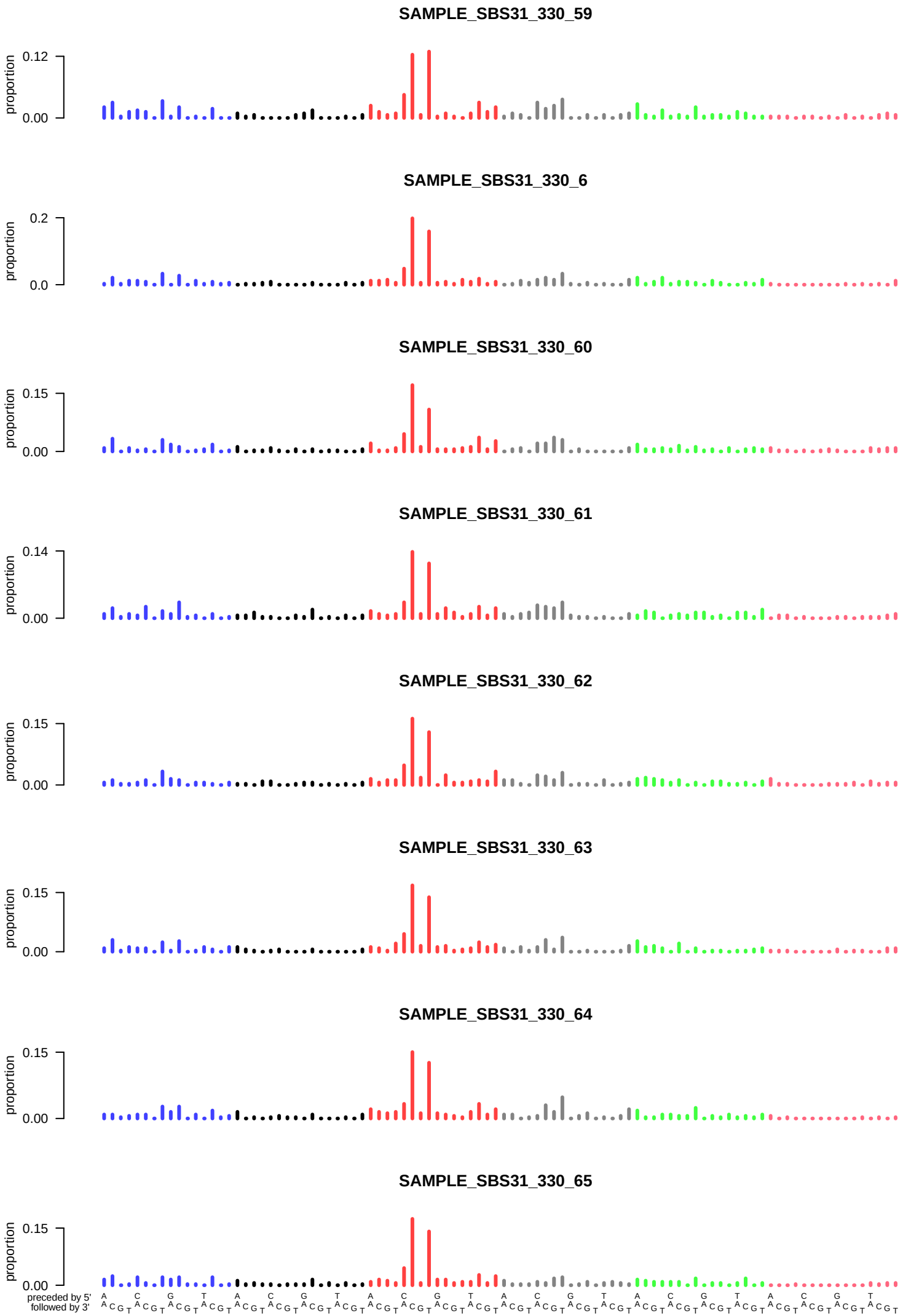
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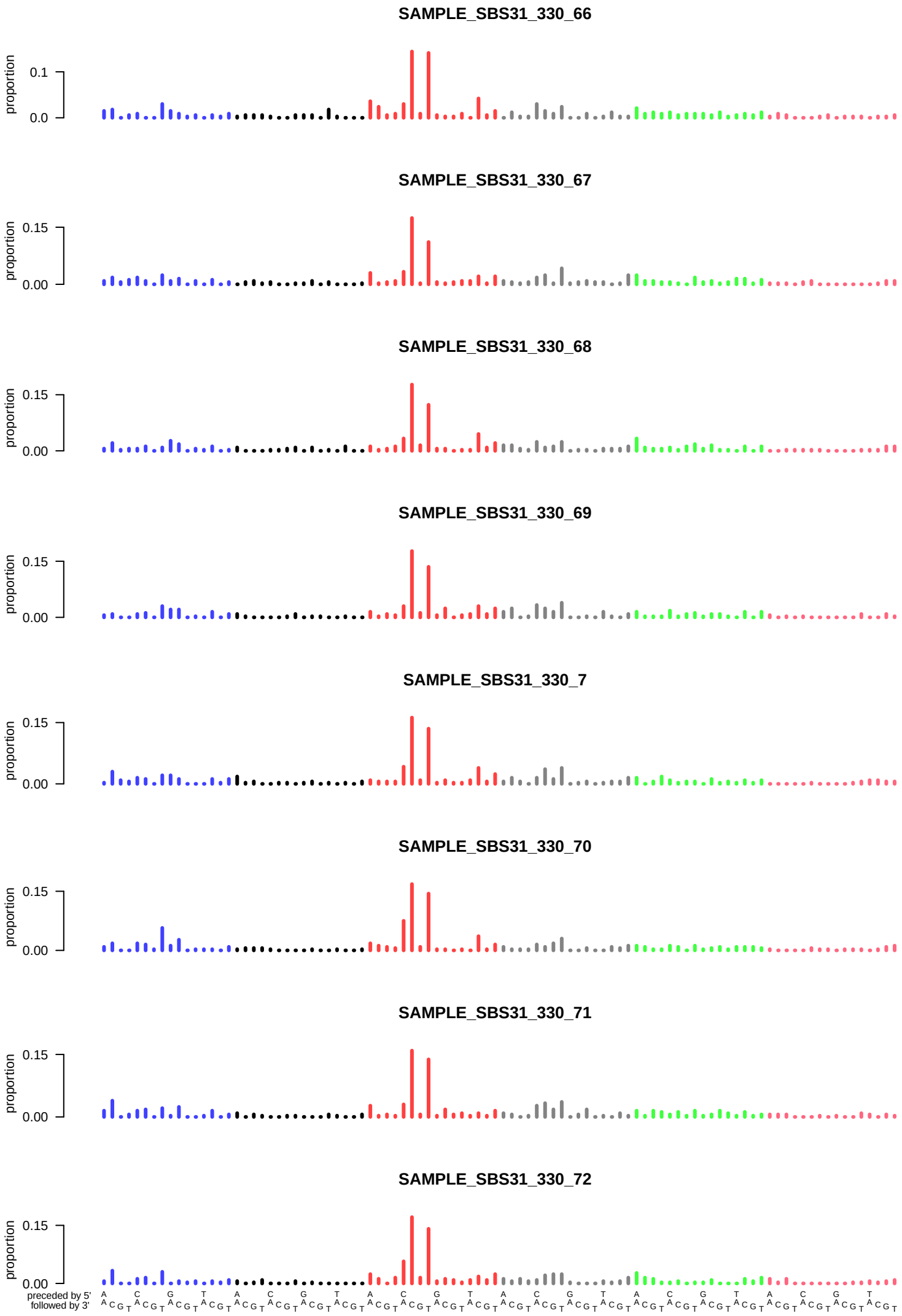
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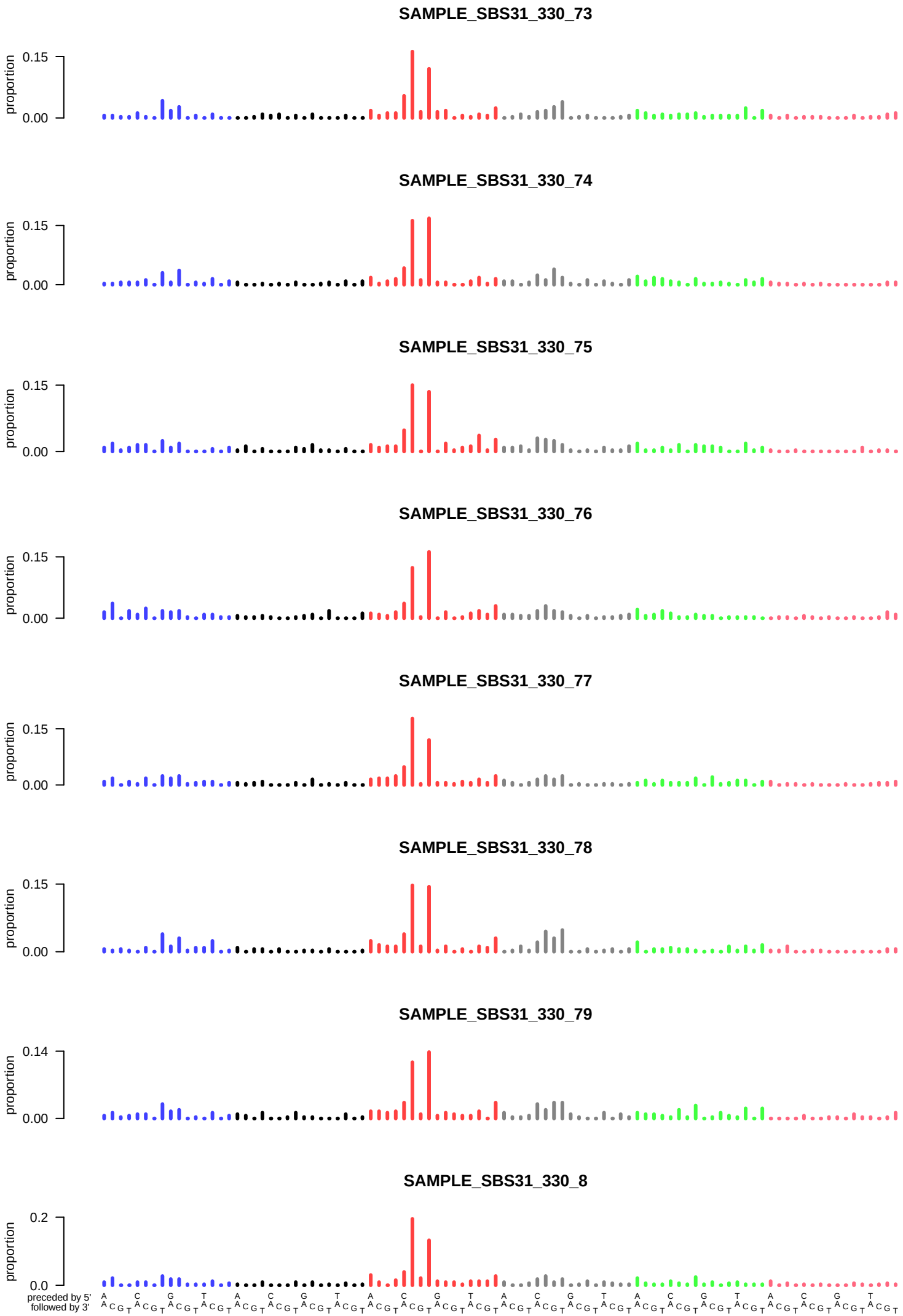
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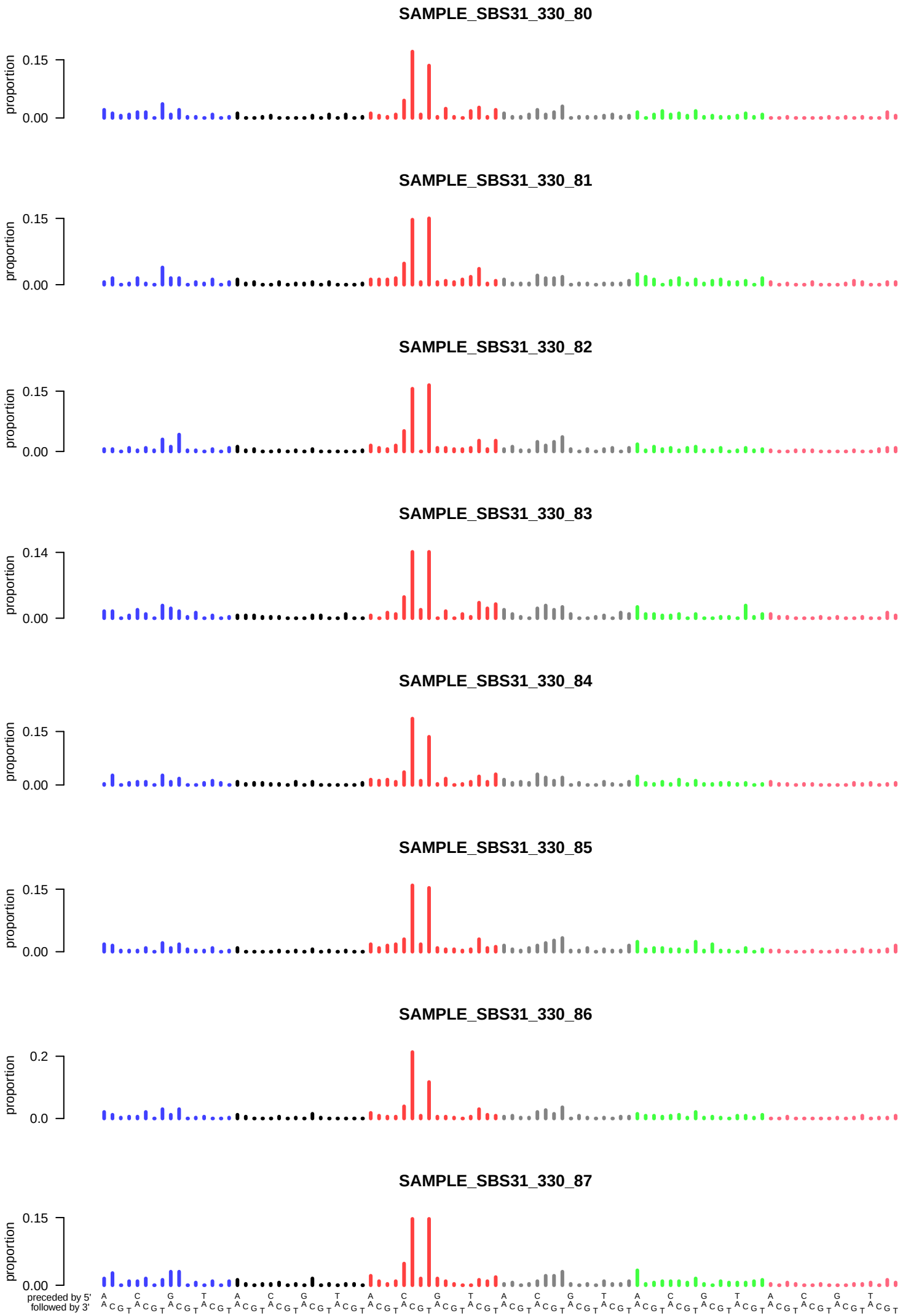
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SAMPLE_SBS31_330_86
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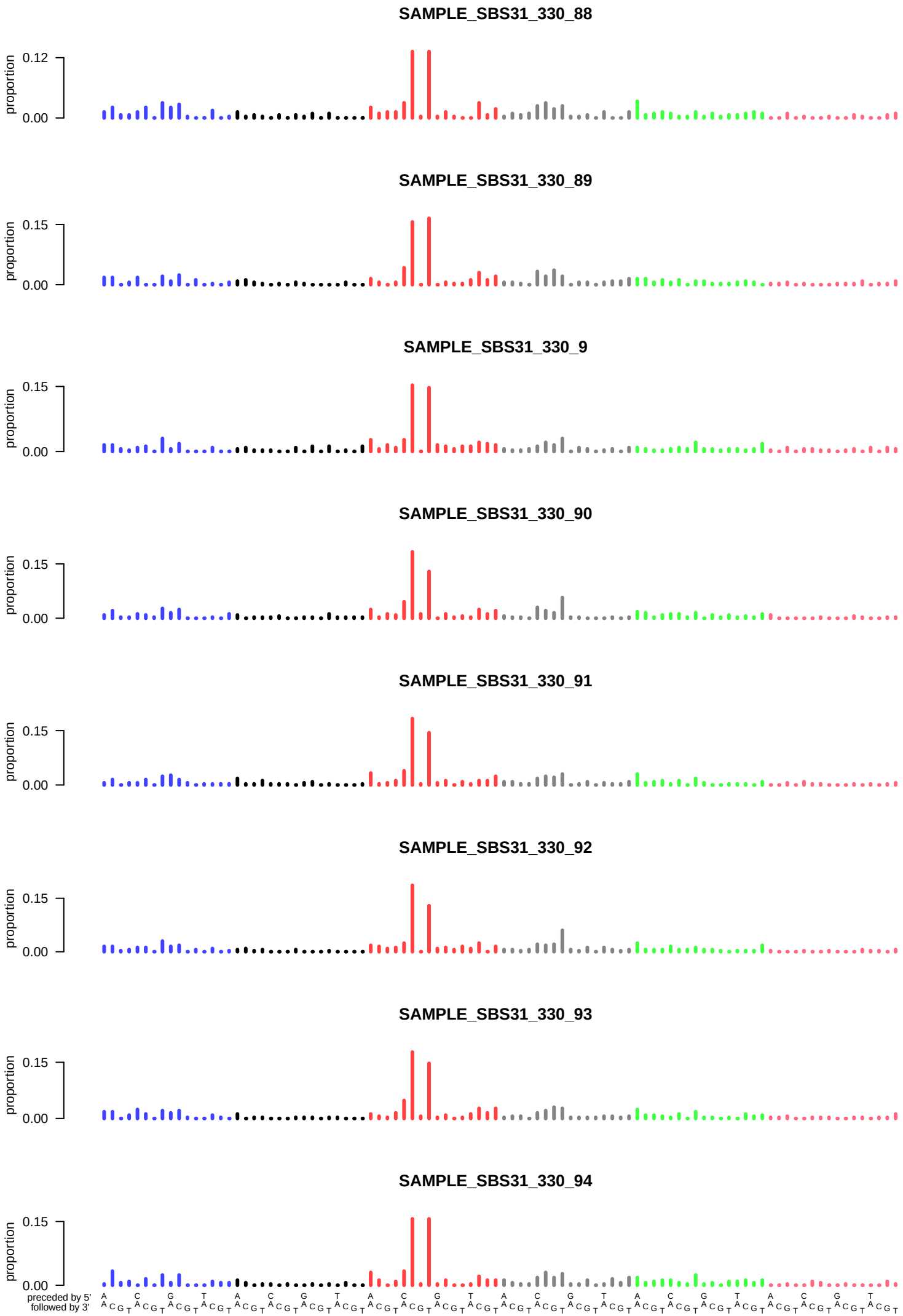
followed by 3'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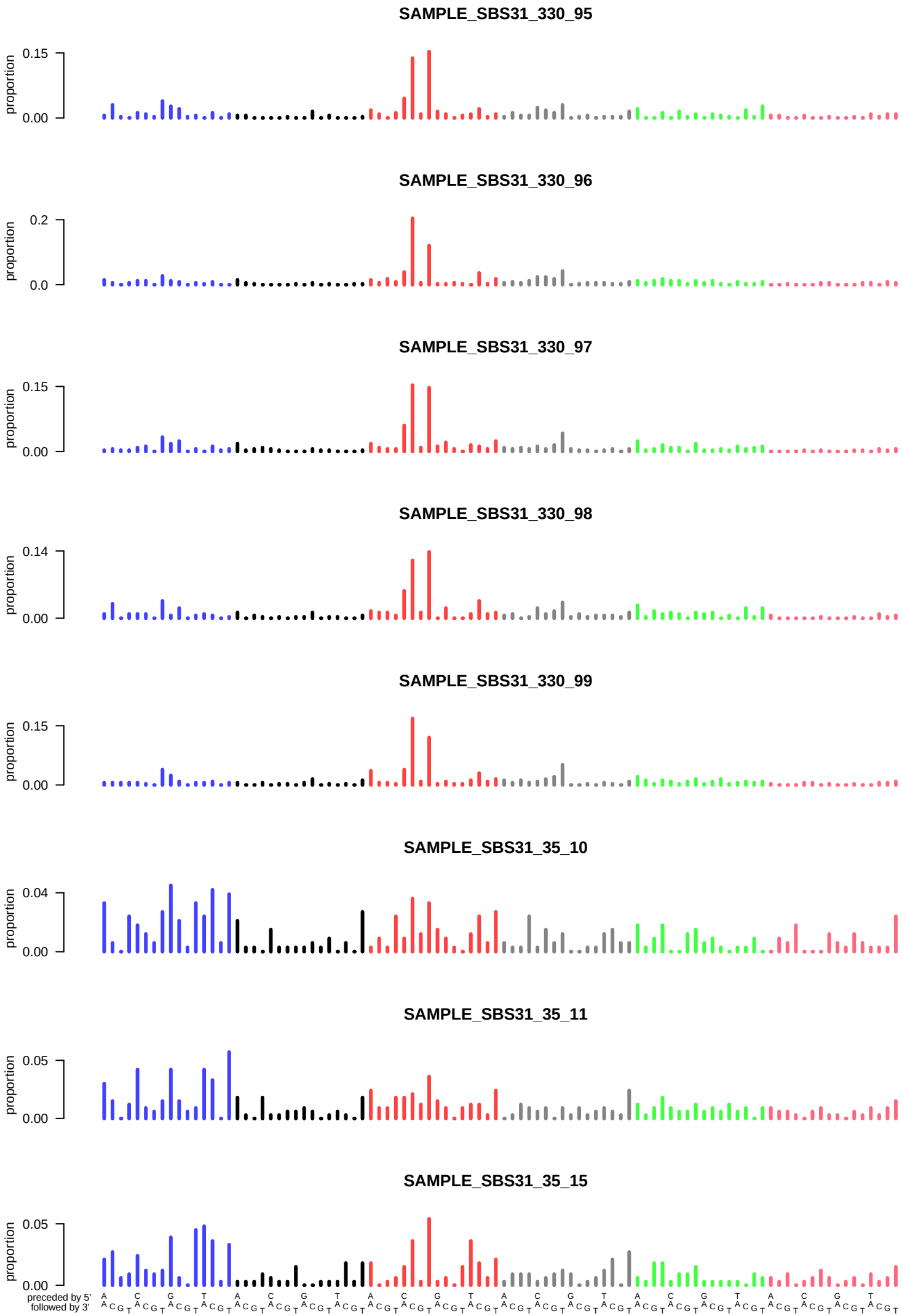
followed by 3'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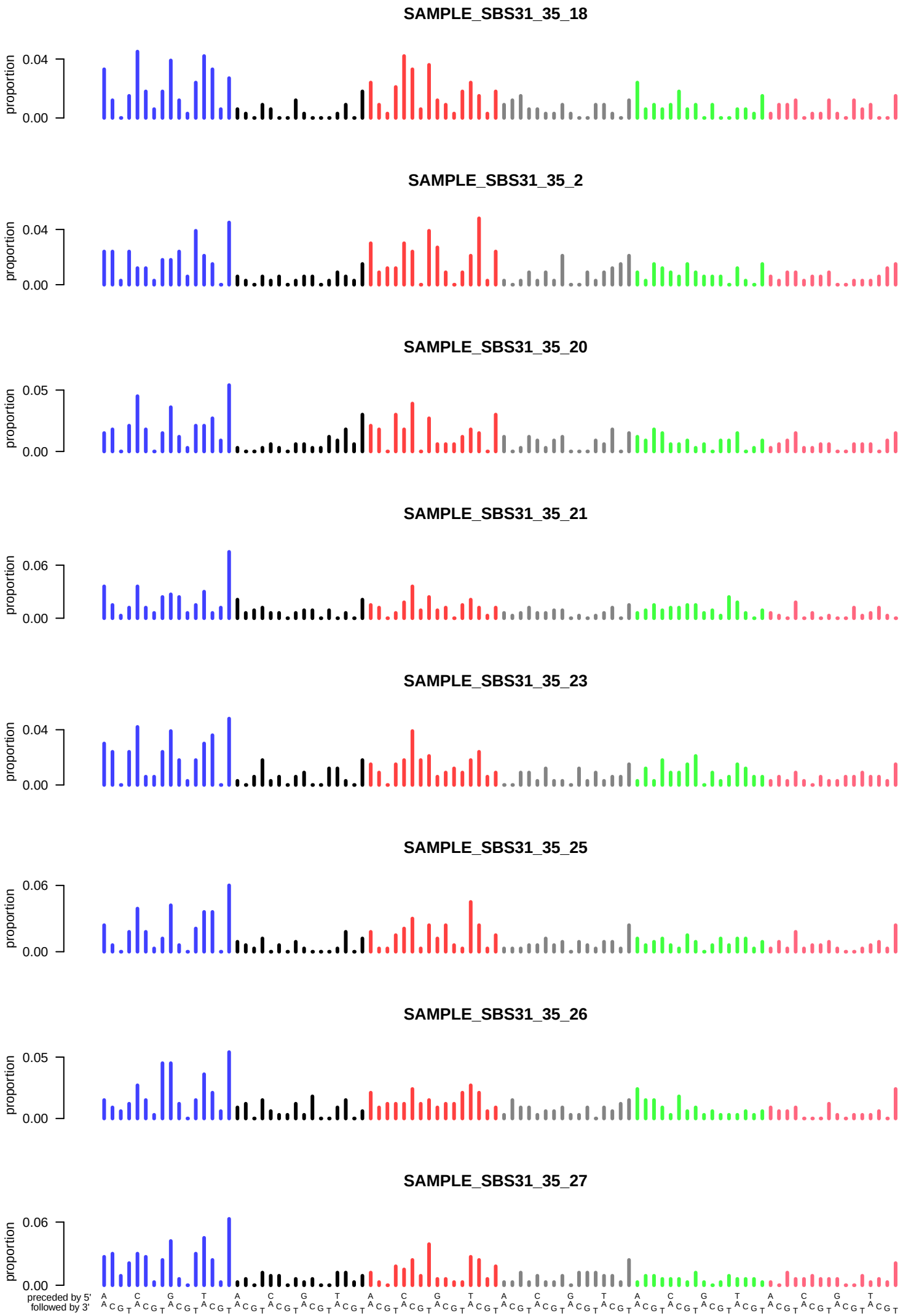
followed by 3'
A C G T A C G T A C G T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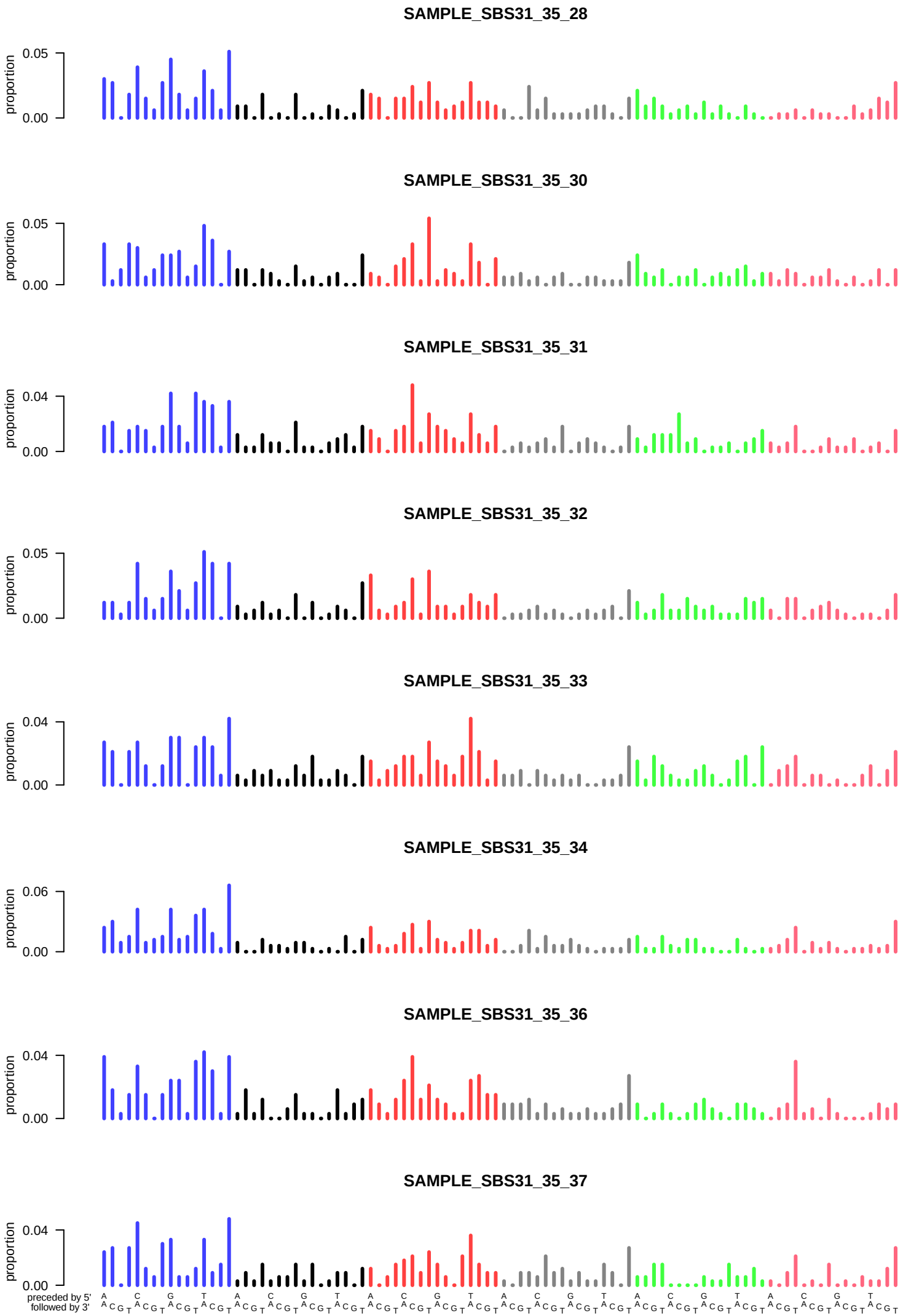
followed by 3'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followed by 3'
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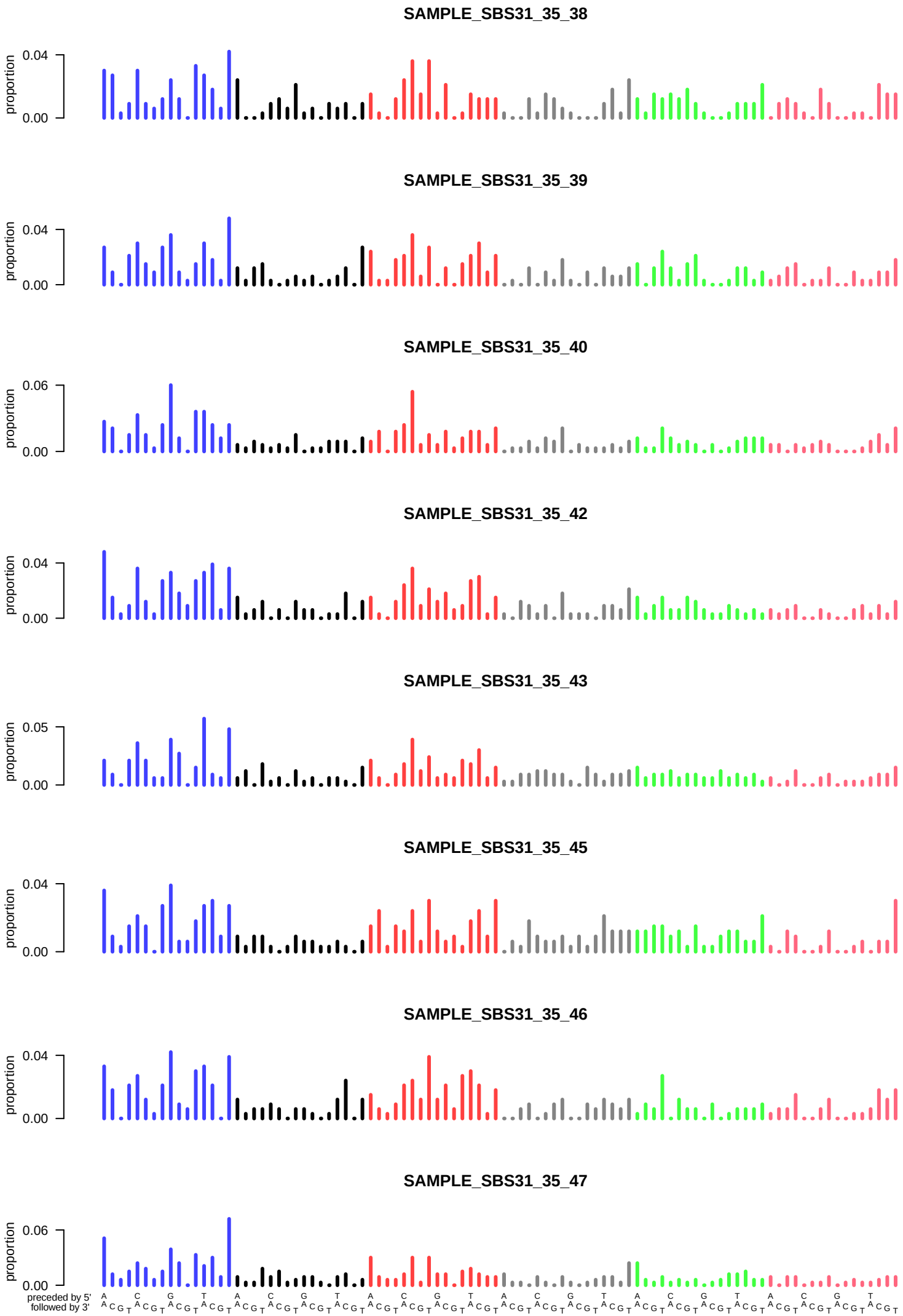
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SAMPLE_SBS31_35_46
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followed by 3'
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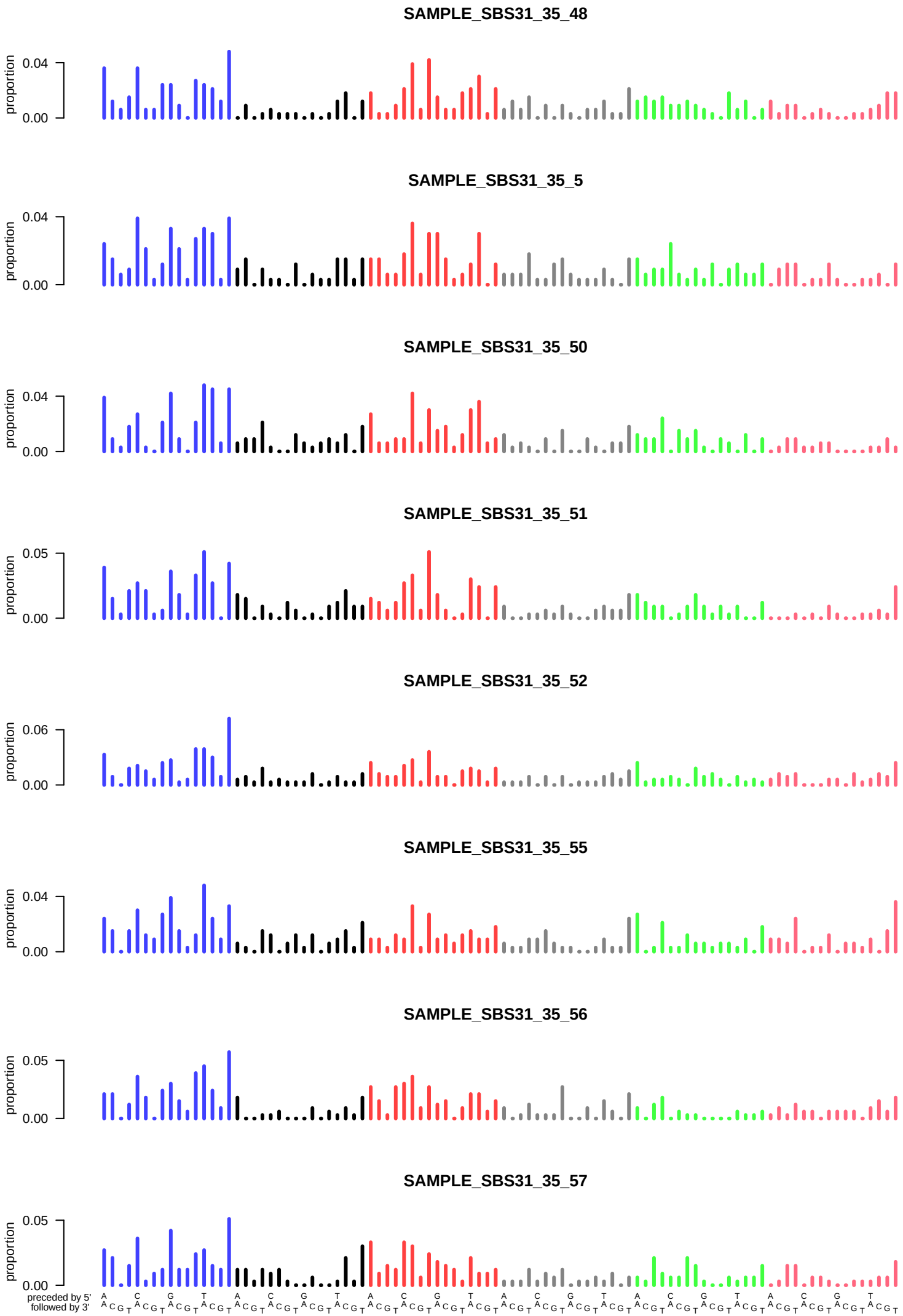
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SAMPLE_SBS31_35_55
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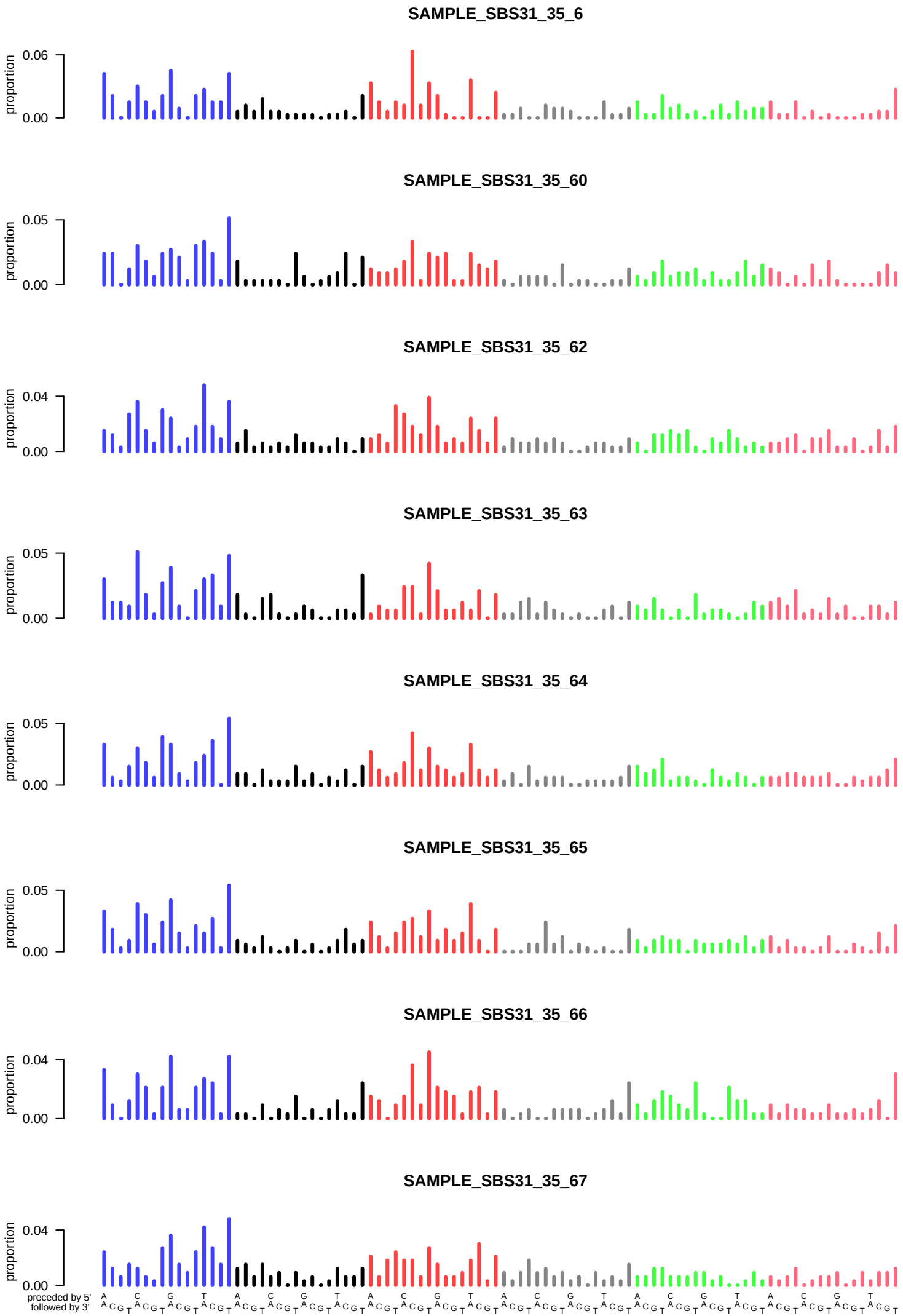
followed by 3'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proportion
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SAMPLE_SBS31_35_66
proportion
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followed by 3'
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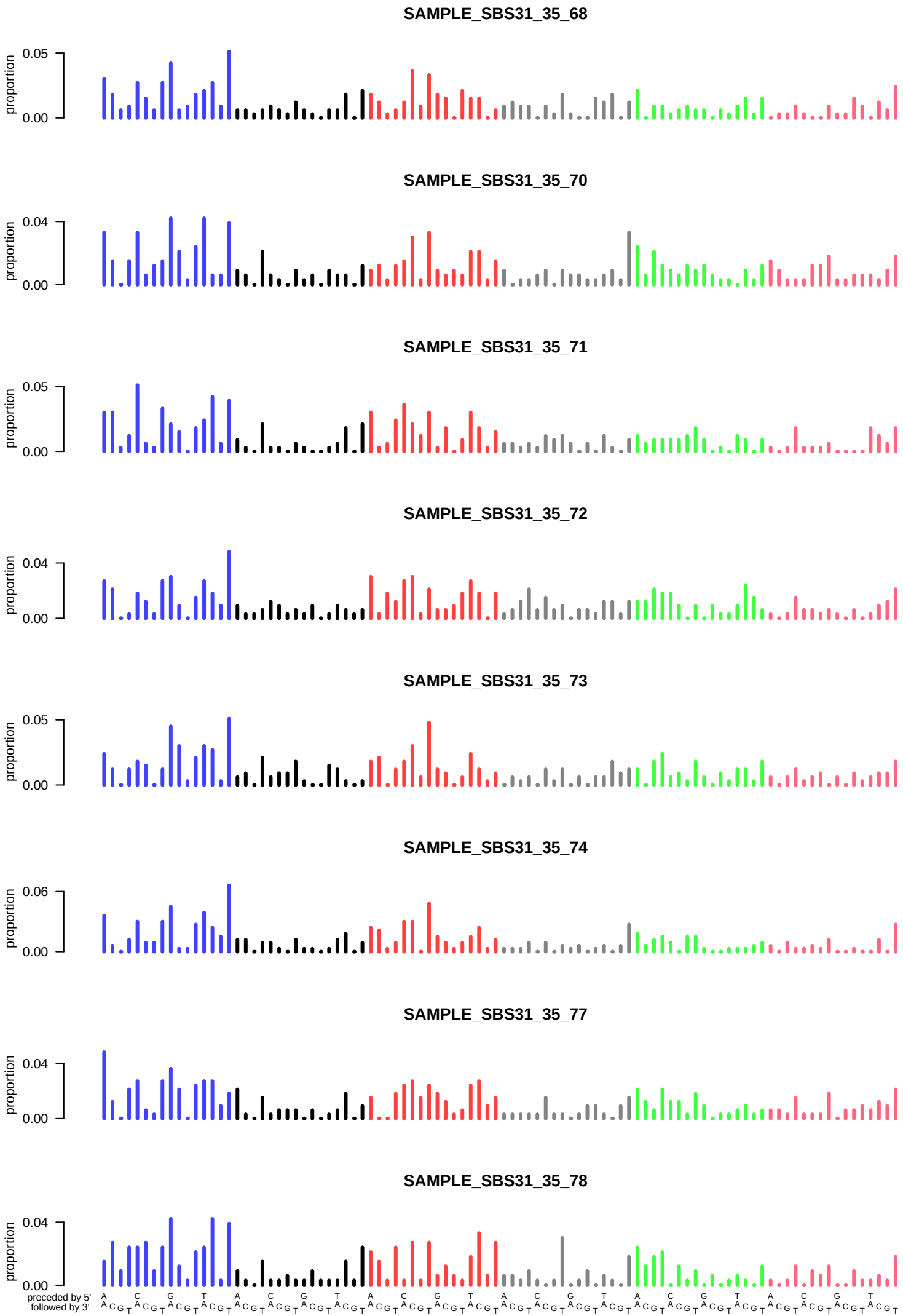
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SAMPLE_SBS31_35_77
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followed by 3'
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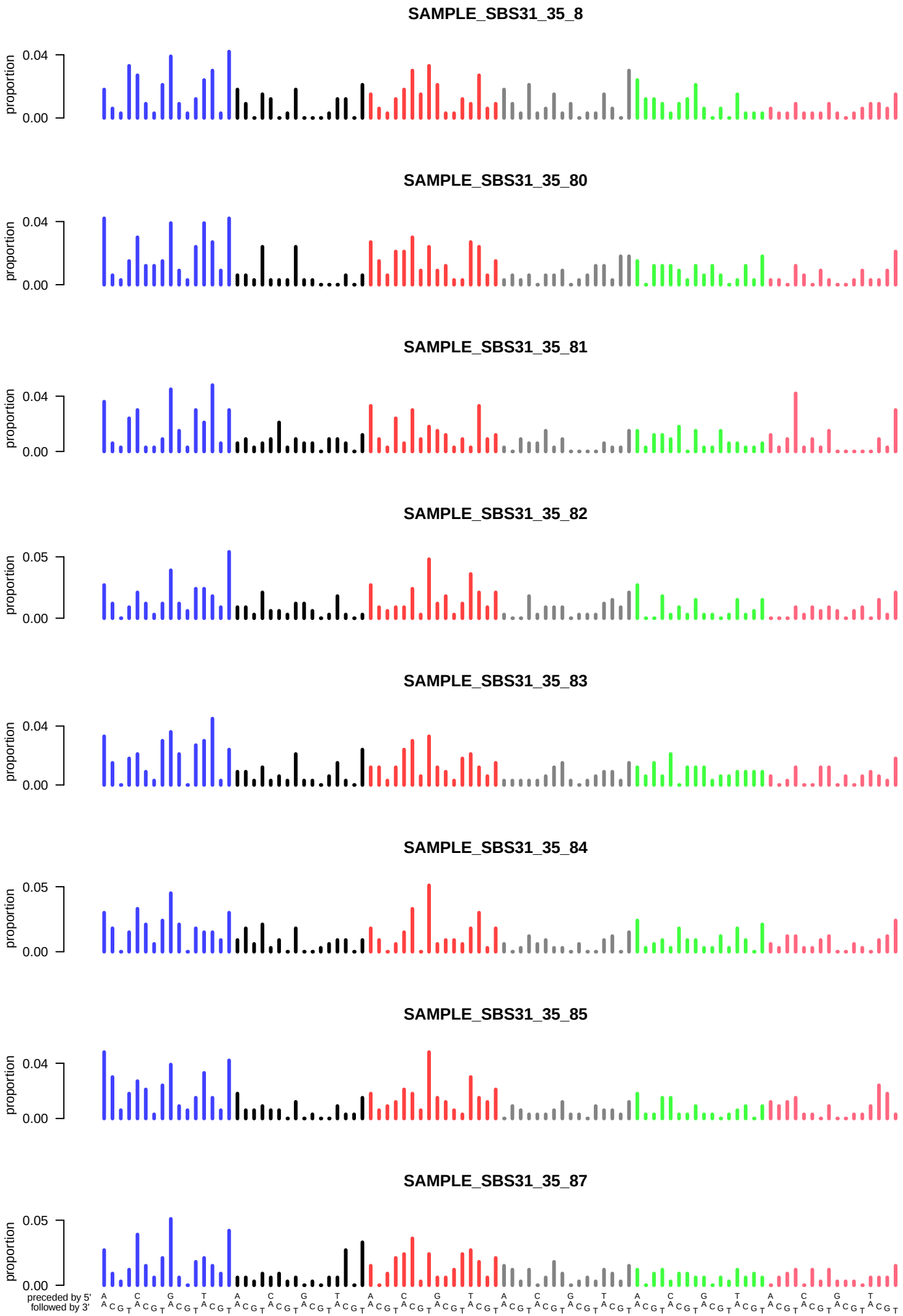
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followed by 3'
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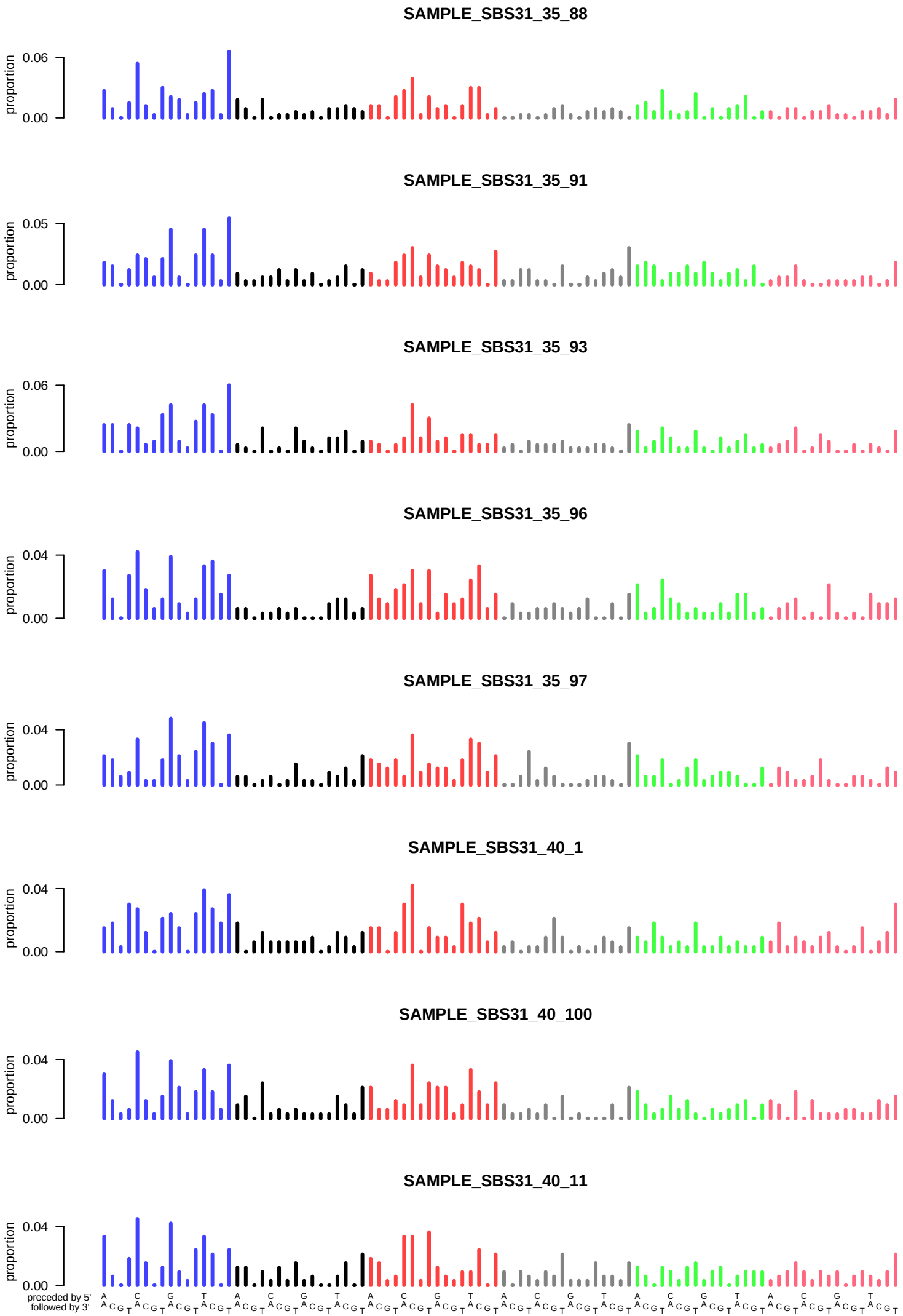
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SAMPLE_SBS31_40_100
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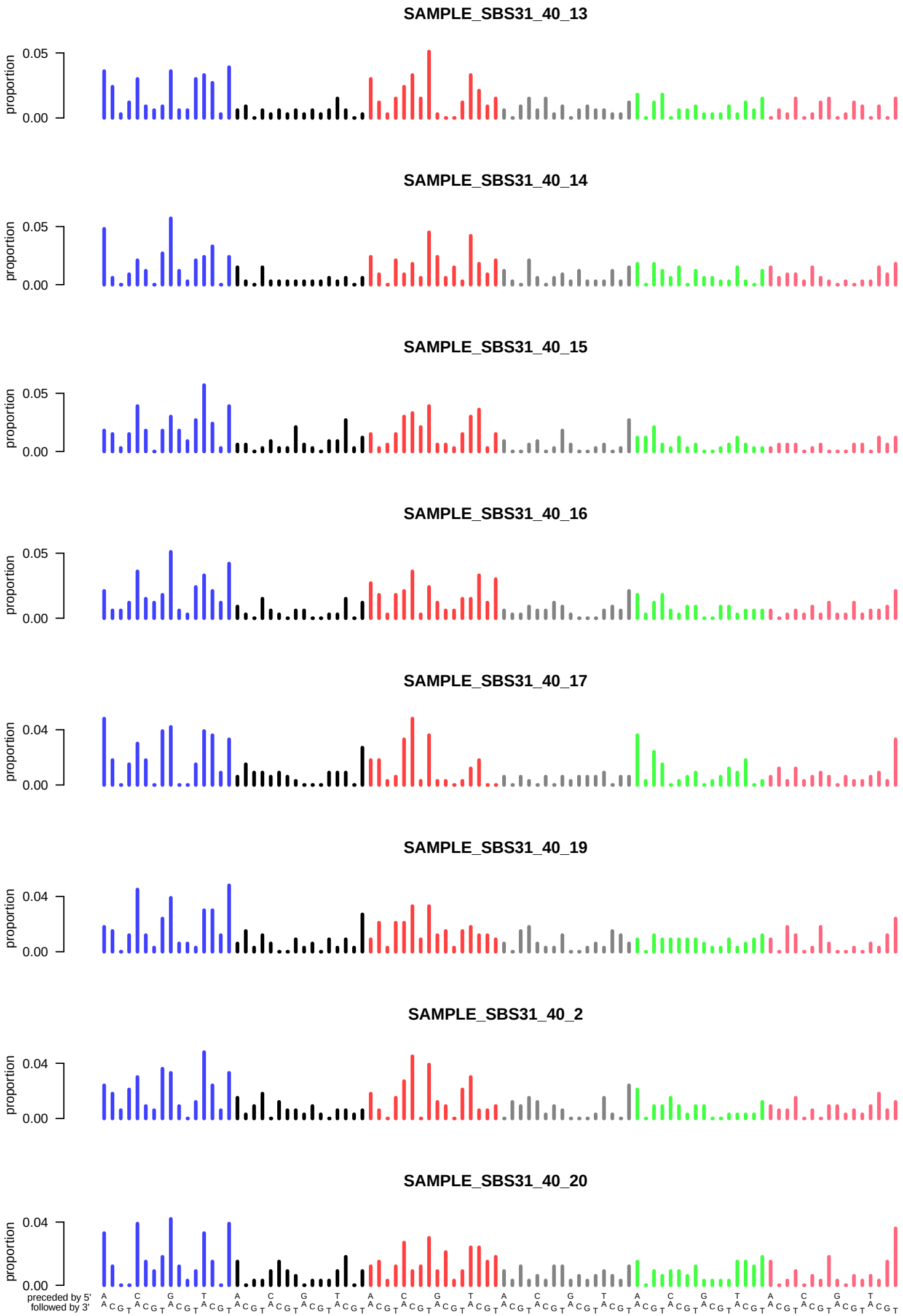
followed by 3'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SAMPLE_SBS31_40_17
SAMPLE_SBS31_40_19
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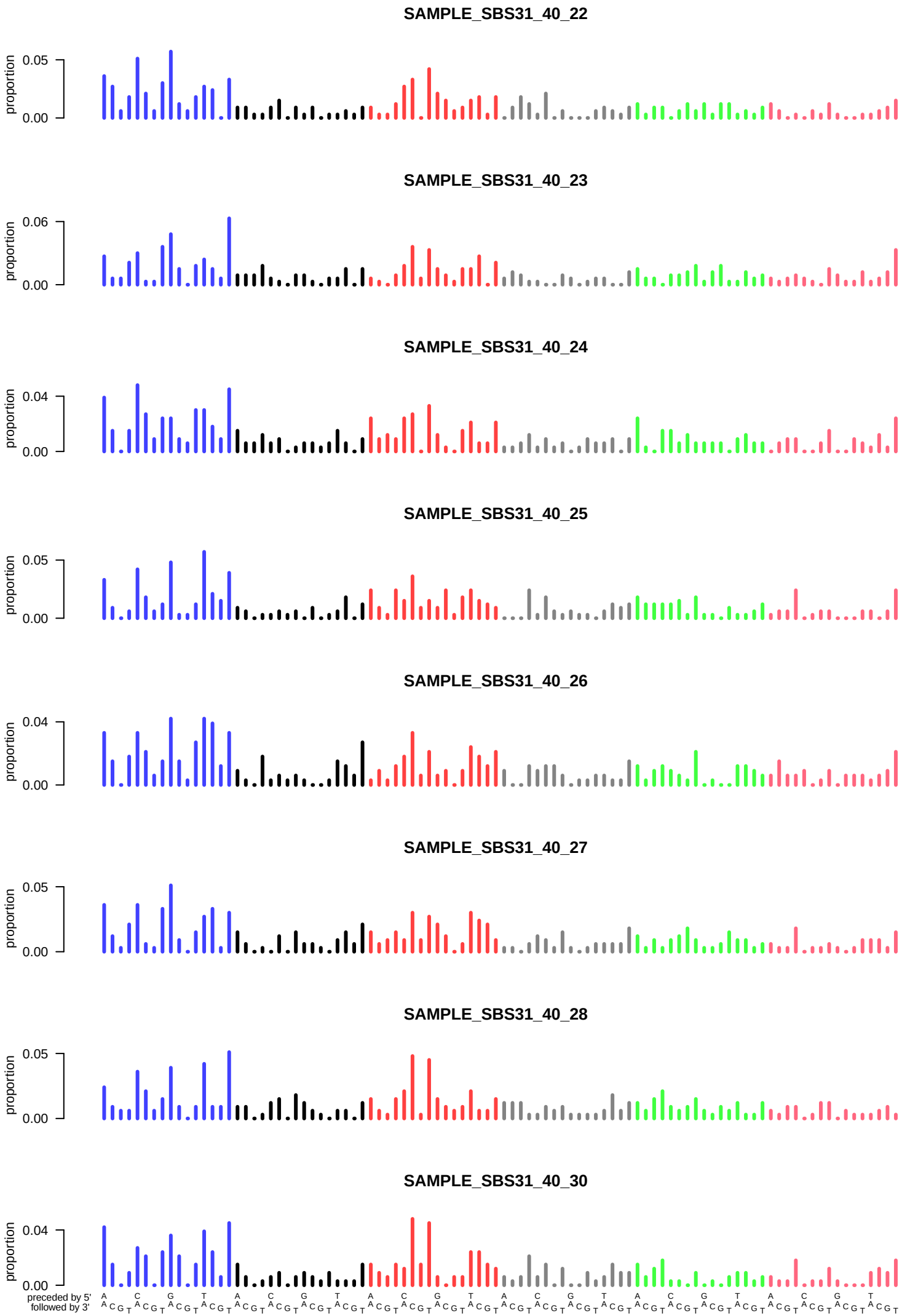
followed by 3'
A C G T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SAMPLE_SBS31_40_26
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proportion
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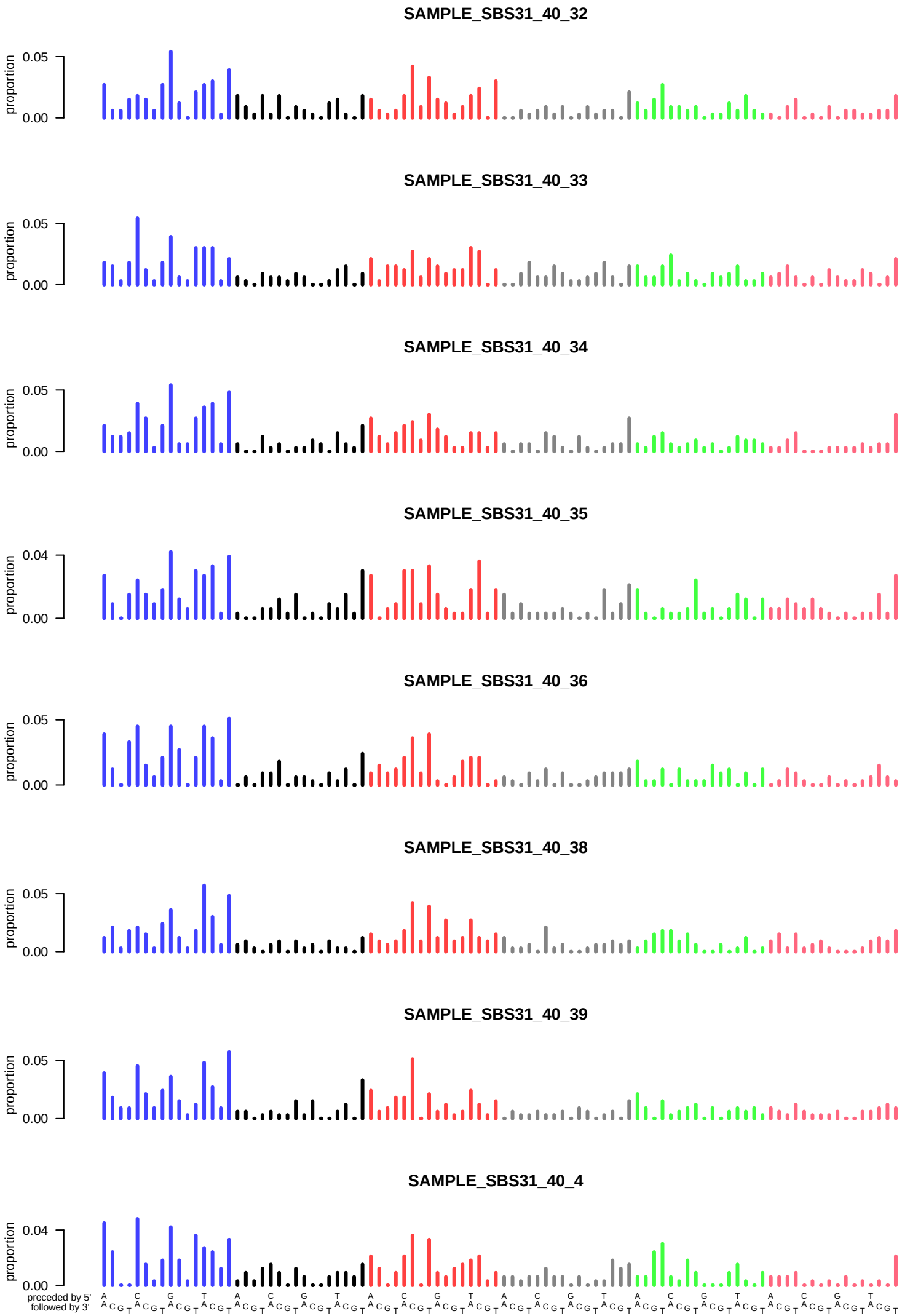
preceded by 5'
followed by 3'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SAMPLE_SBS31_40_39
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followed by 3'
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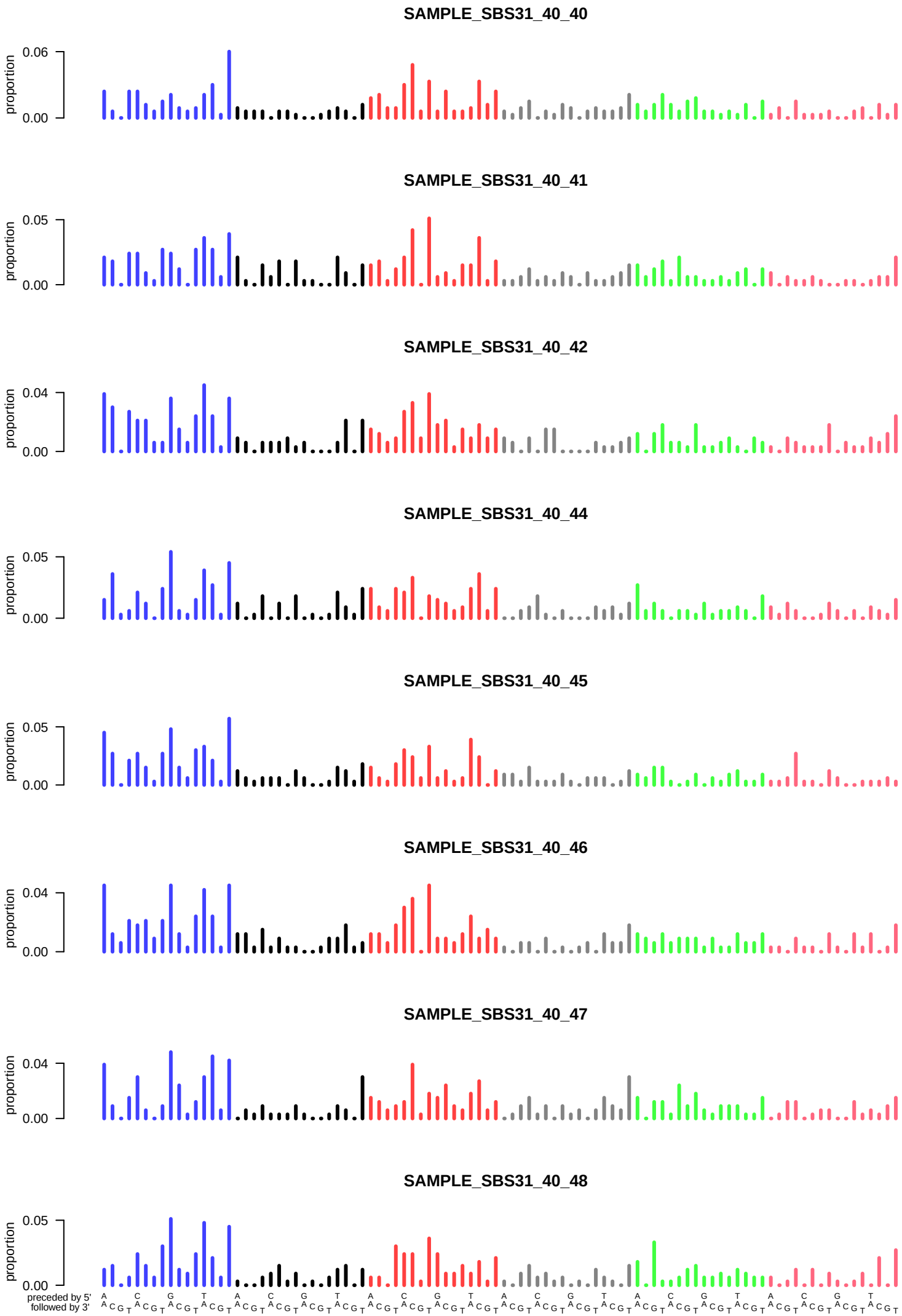
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SAMPLE_SBS31_40_46
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SAMPLE_SBS31_40_47
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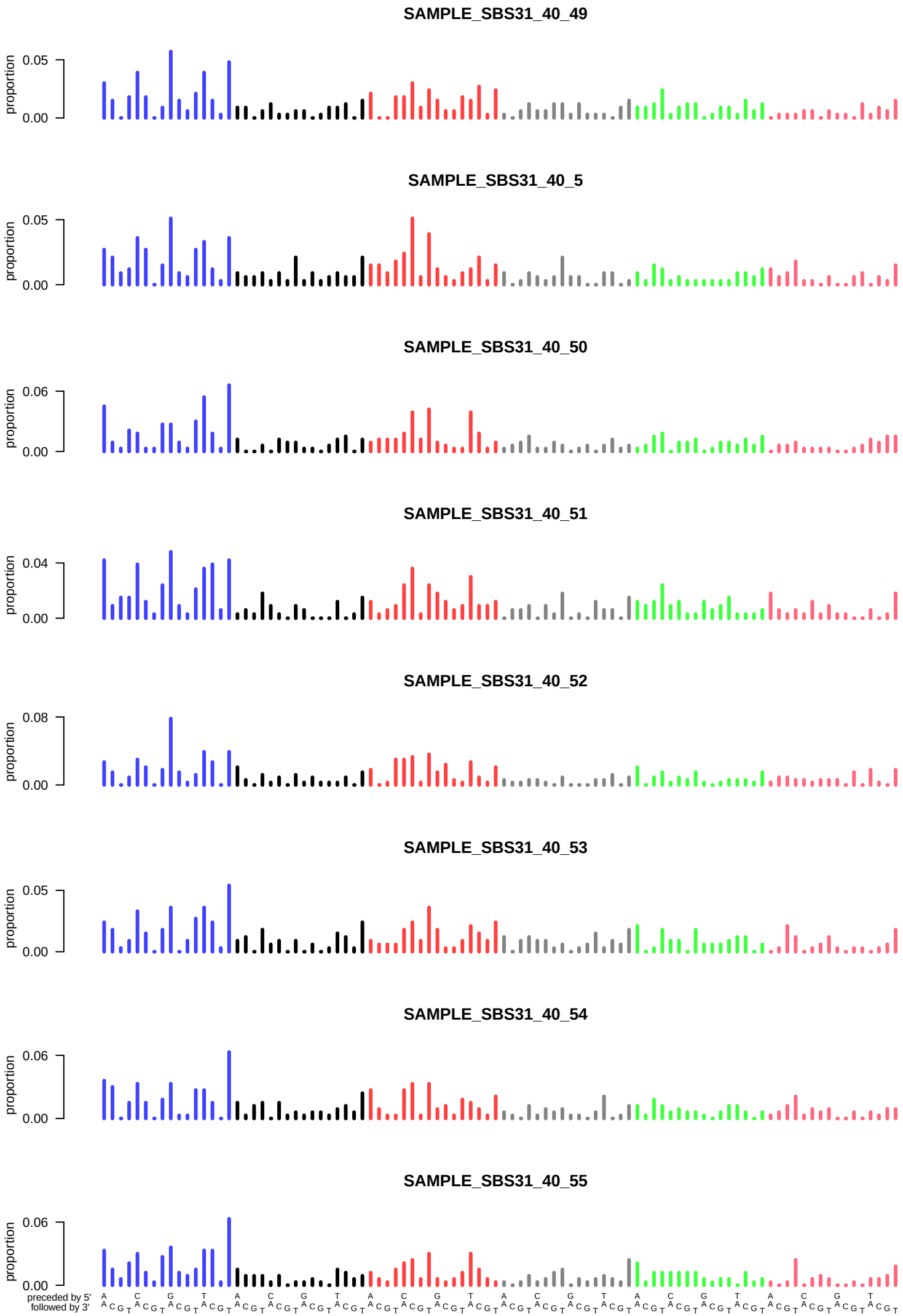
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followed by 3'
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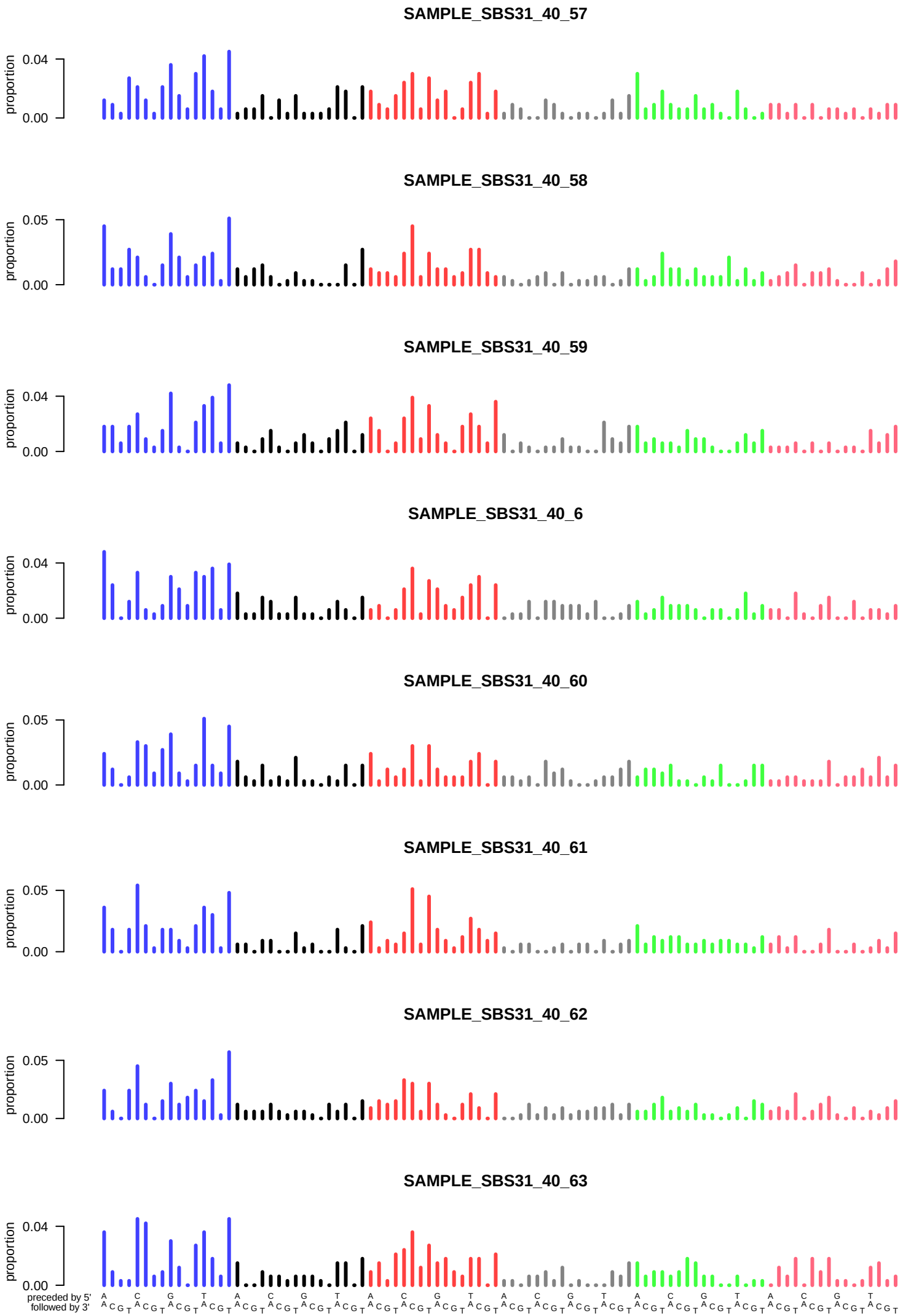
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SAMPLE_SBS31_40_61
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SAMPLE_SBS31_40_62
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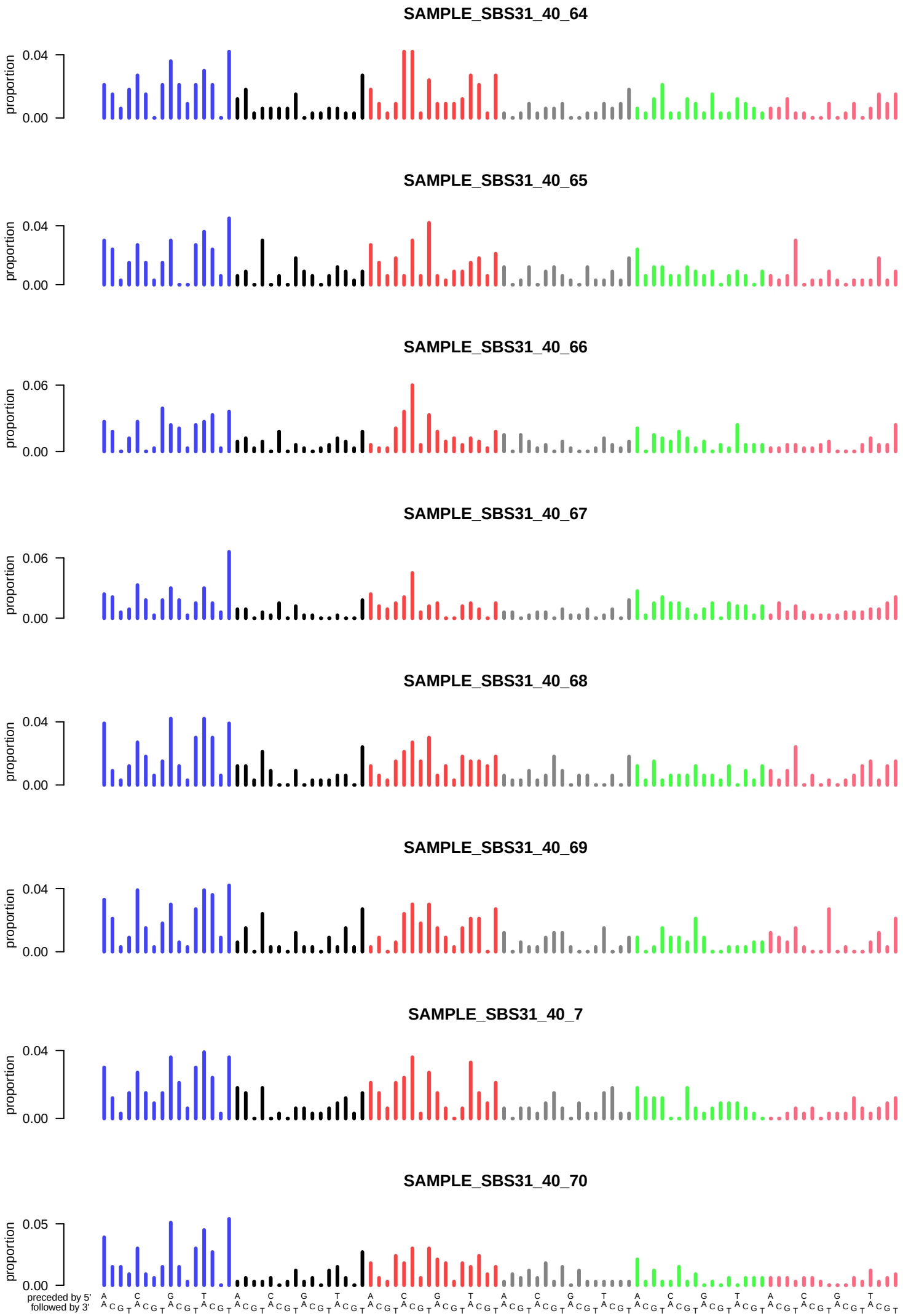
followed by 3'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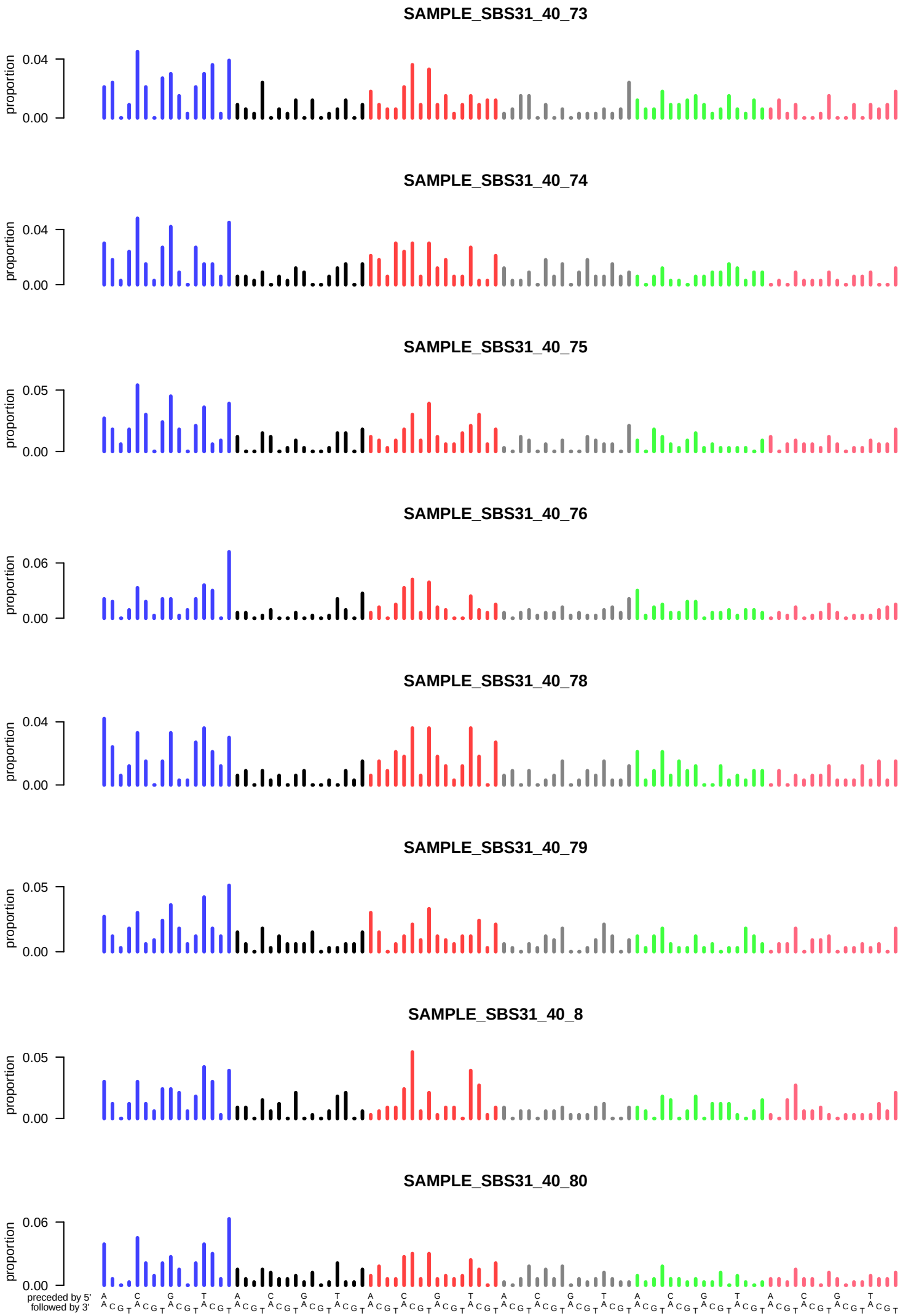
followed by 3'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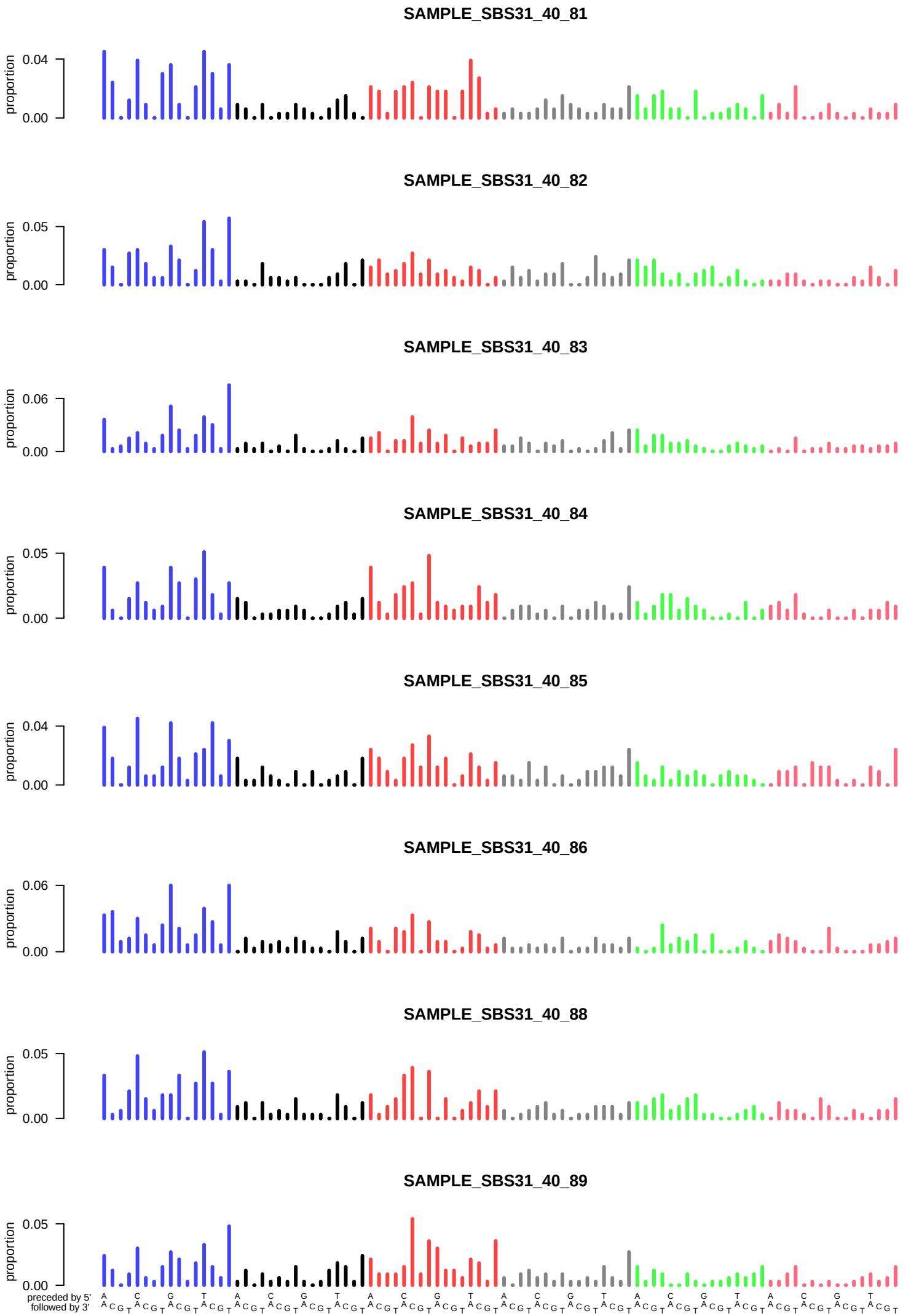
followed by 3'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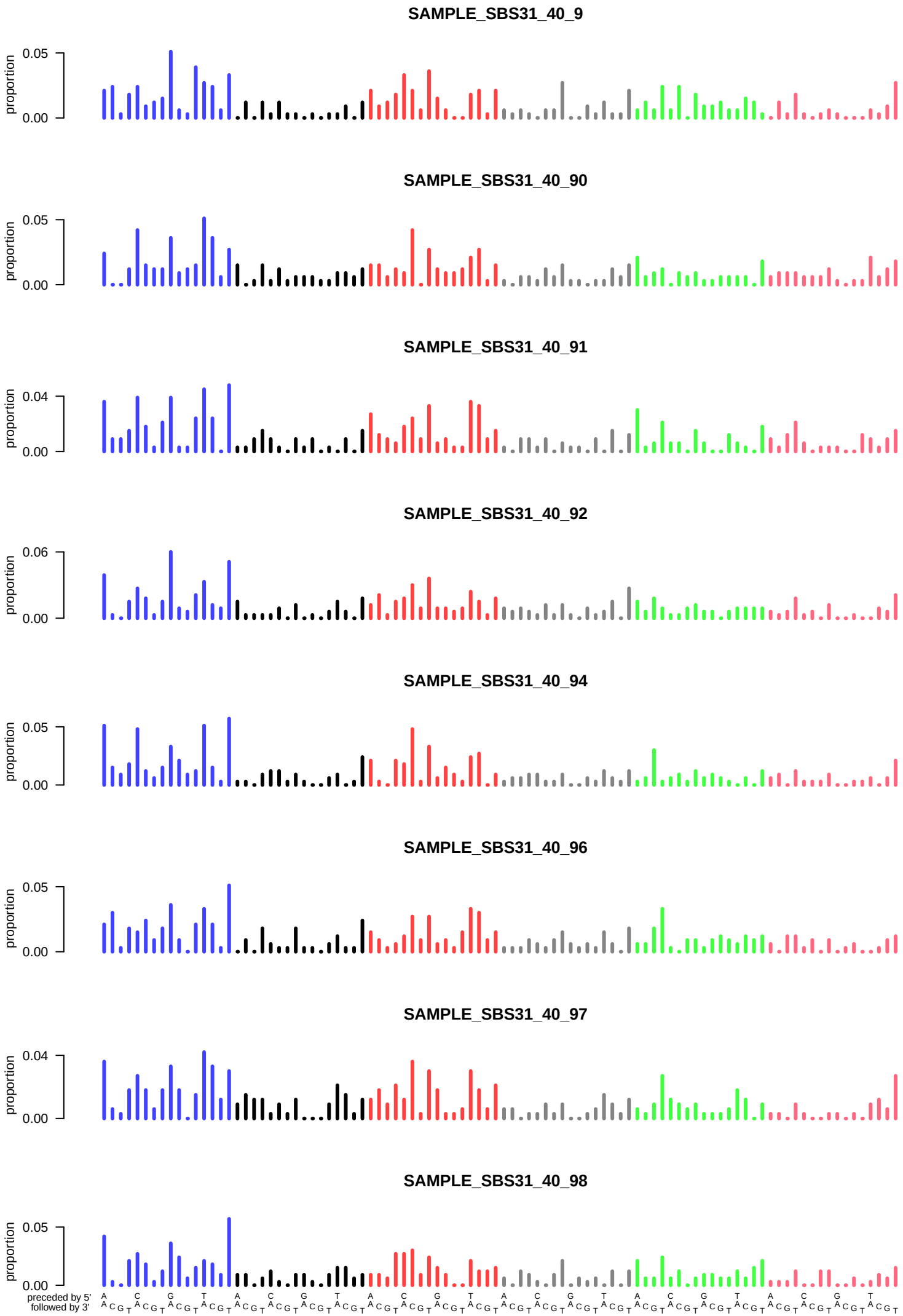
followed by 3'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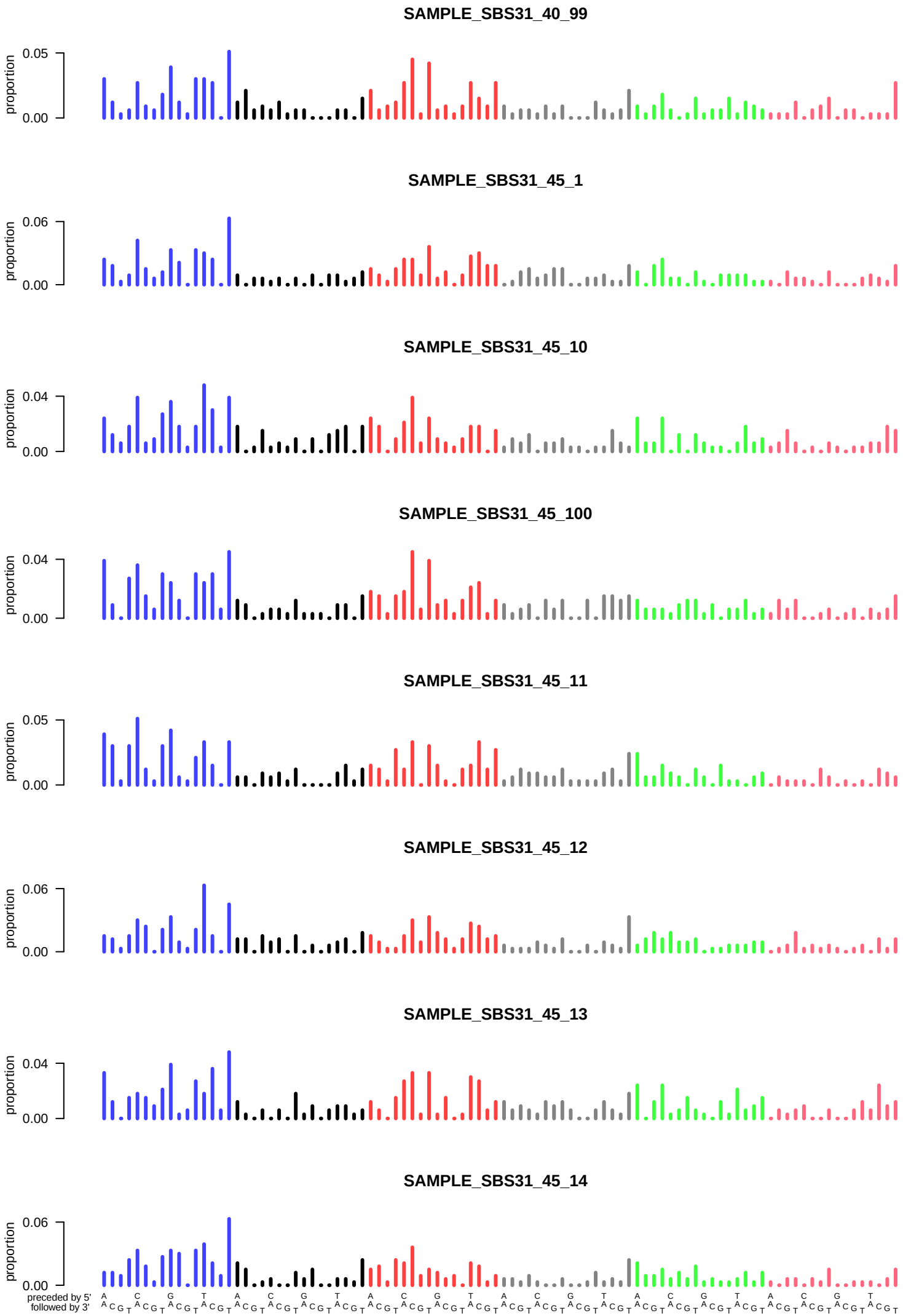
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SAMPLE_SBS31_45_13
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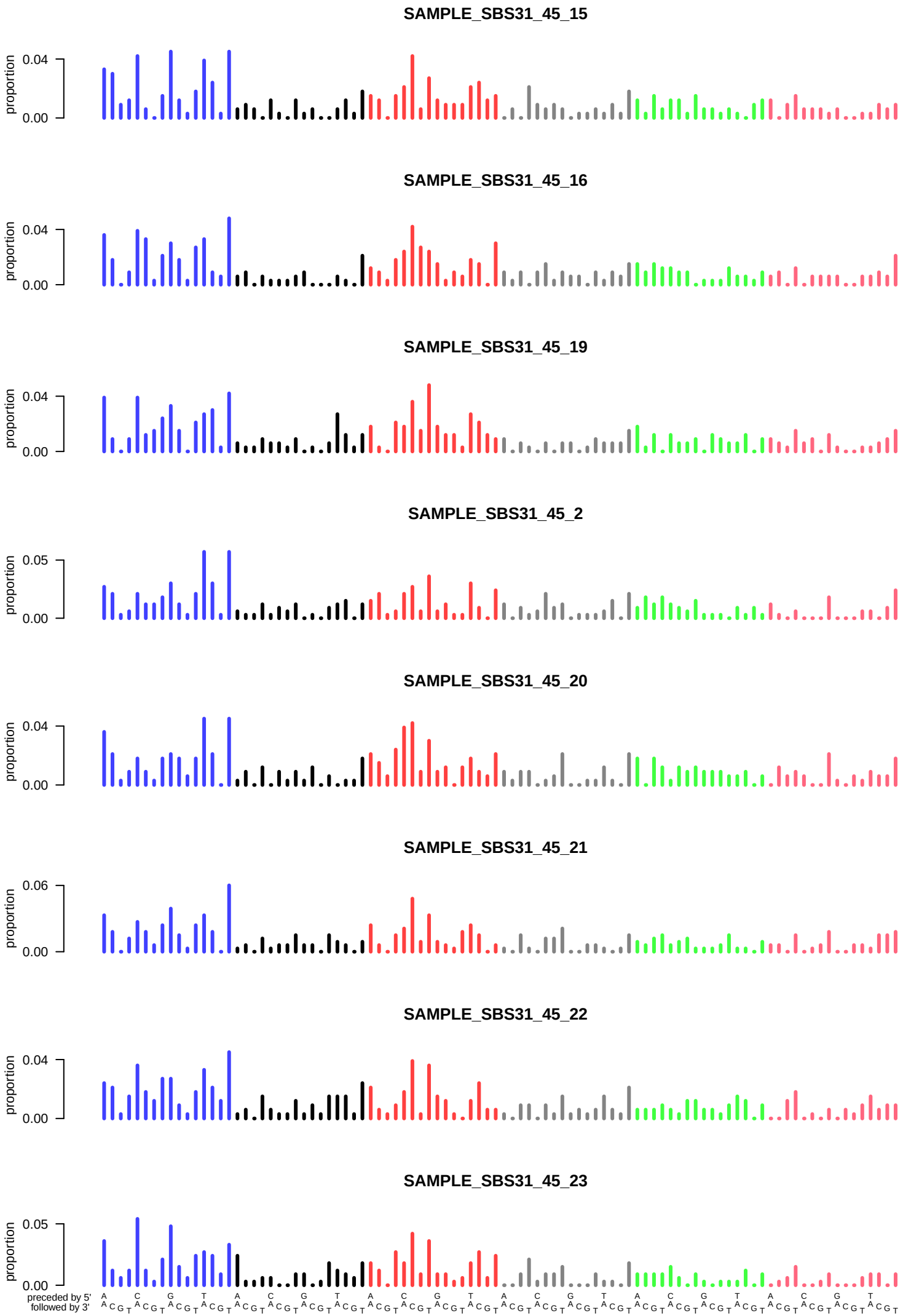
A C G T A C G T A C G T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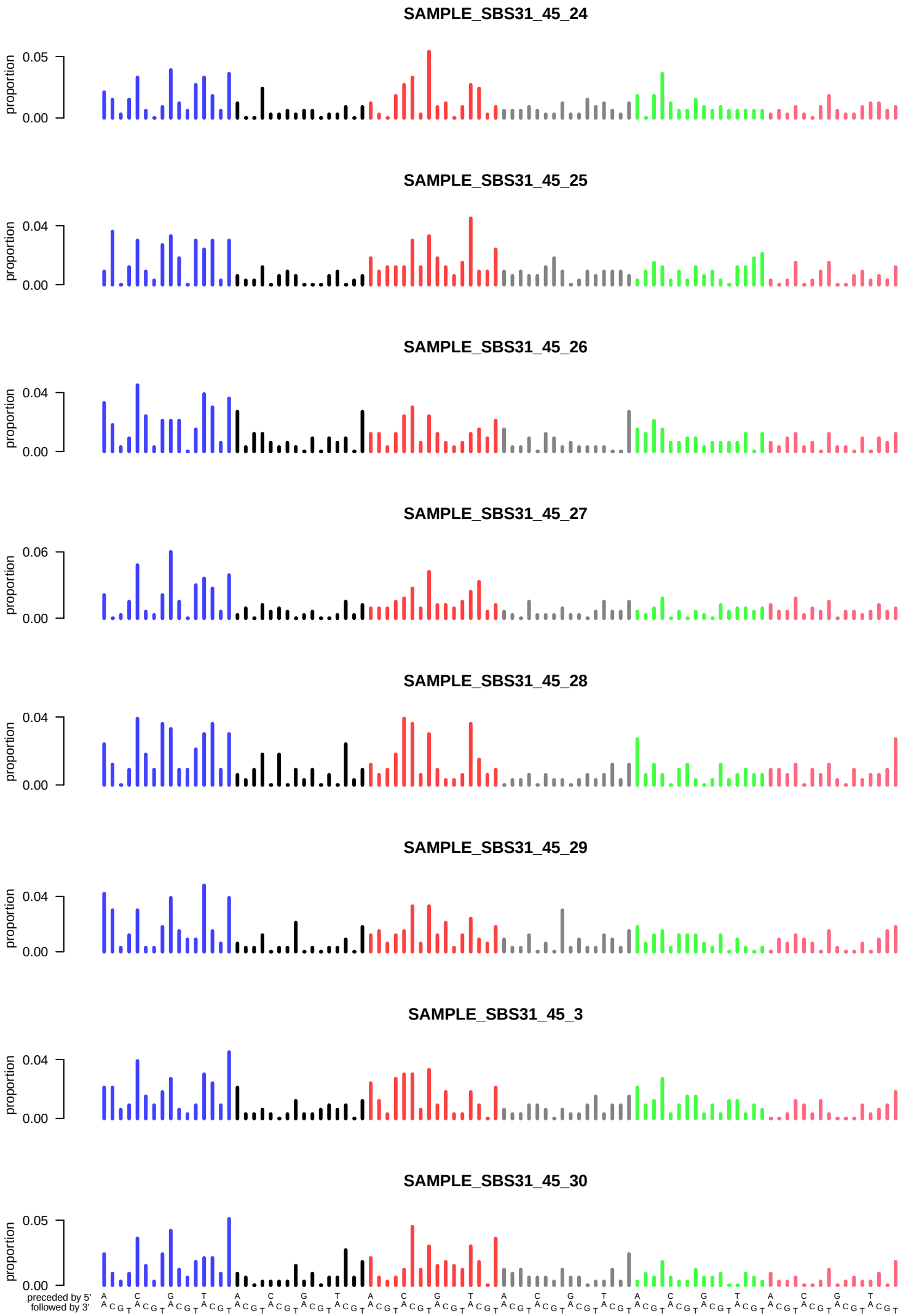
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followed by 3'
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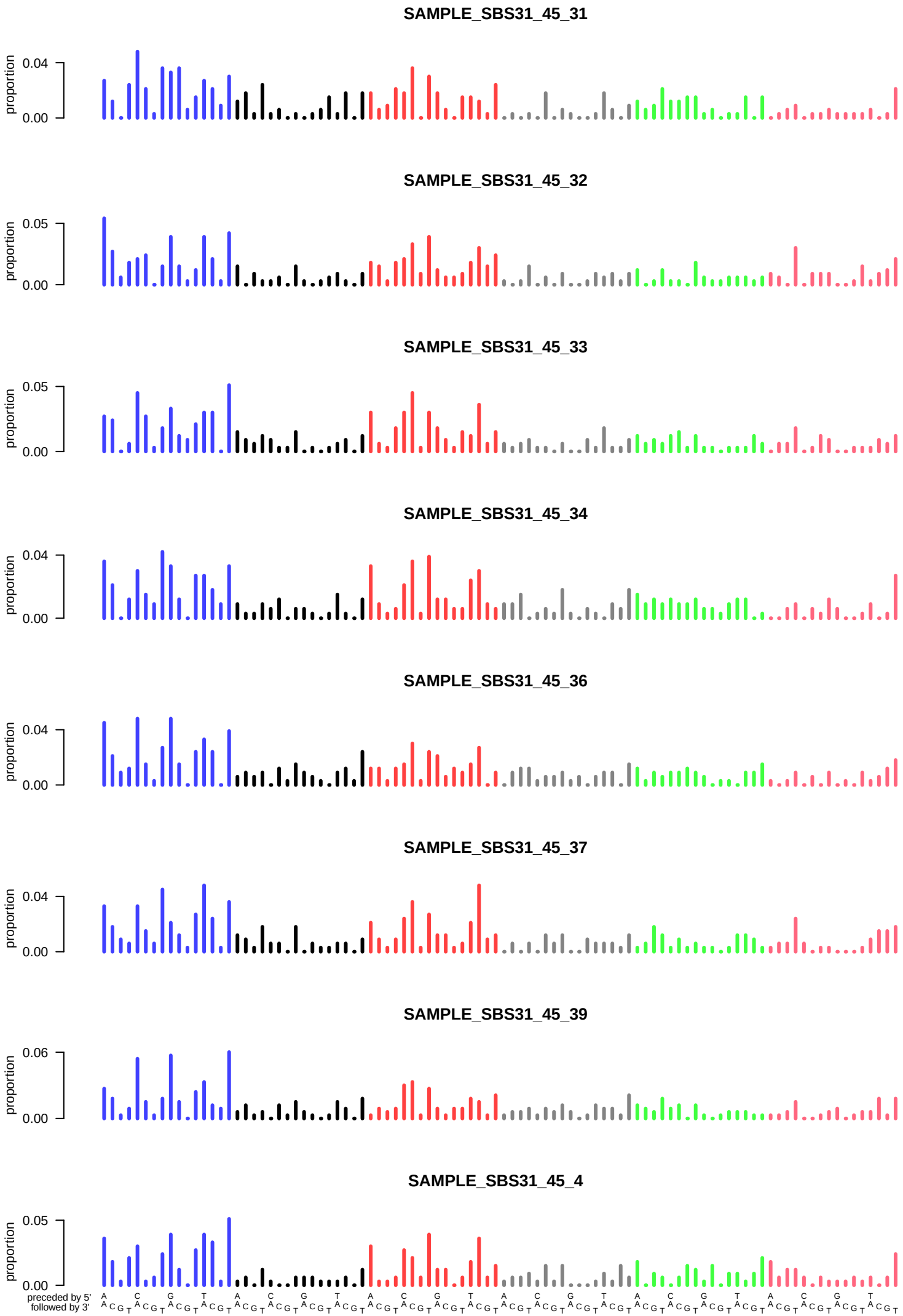
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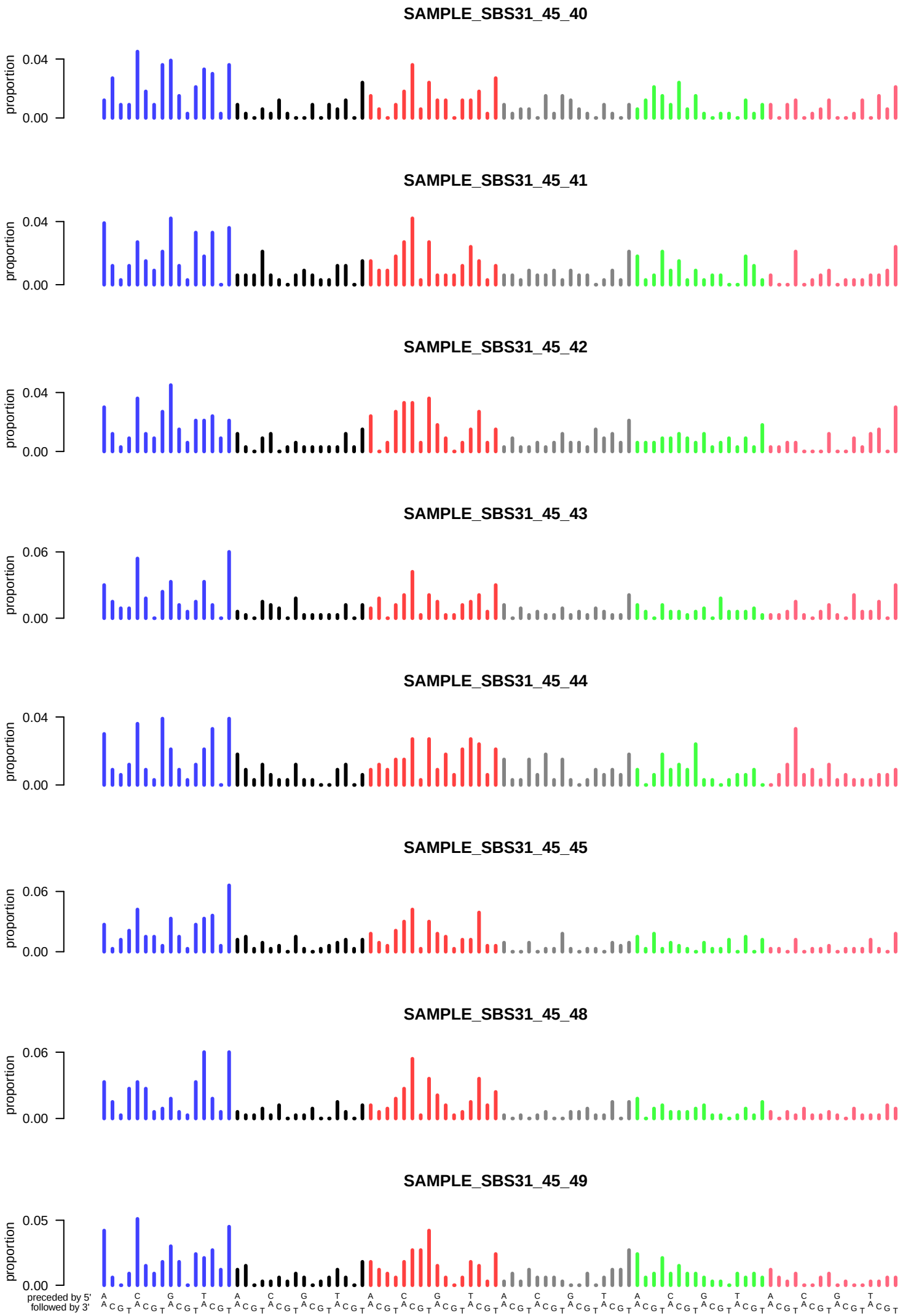
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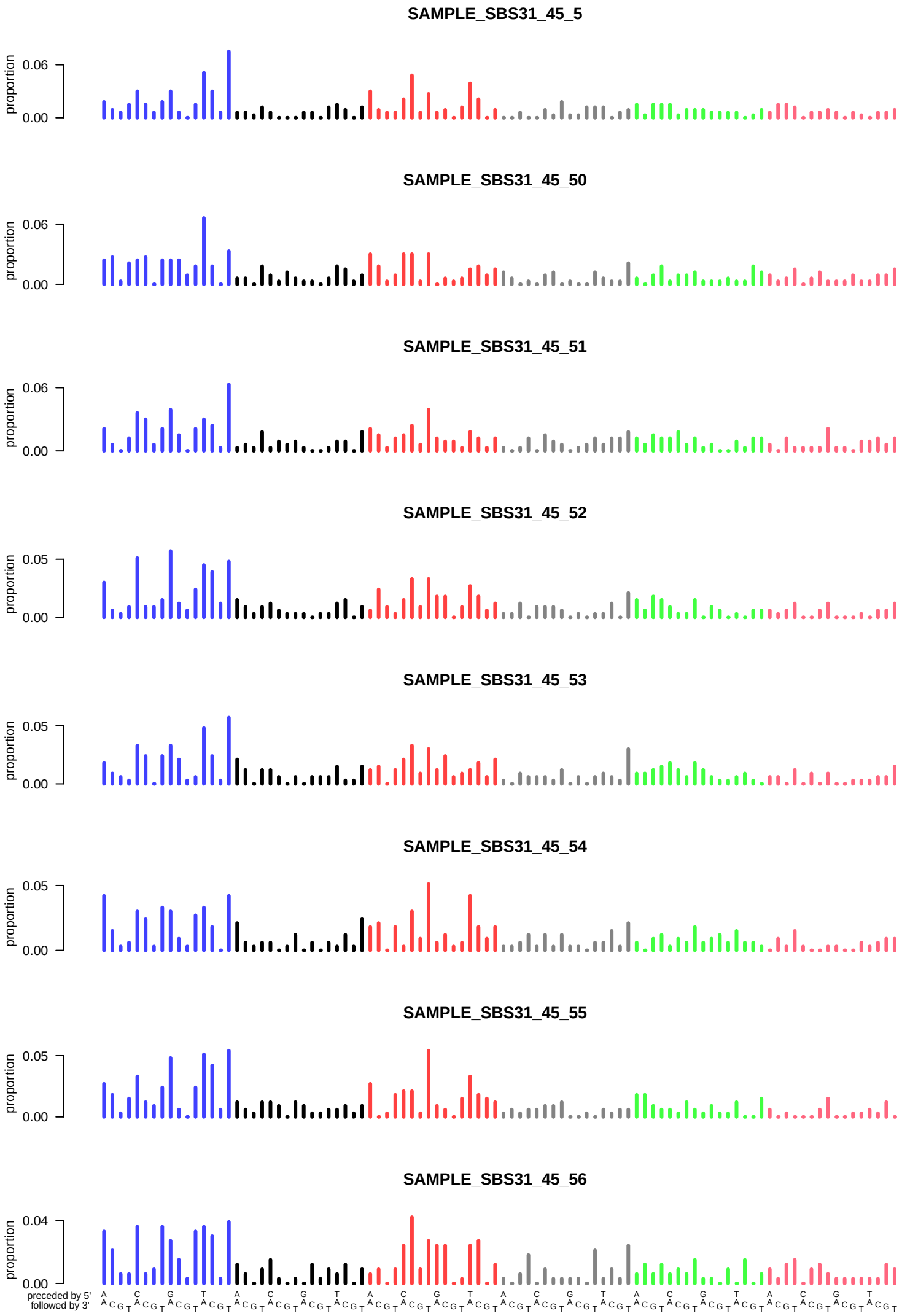
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followed by 3'
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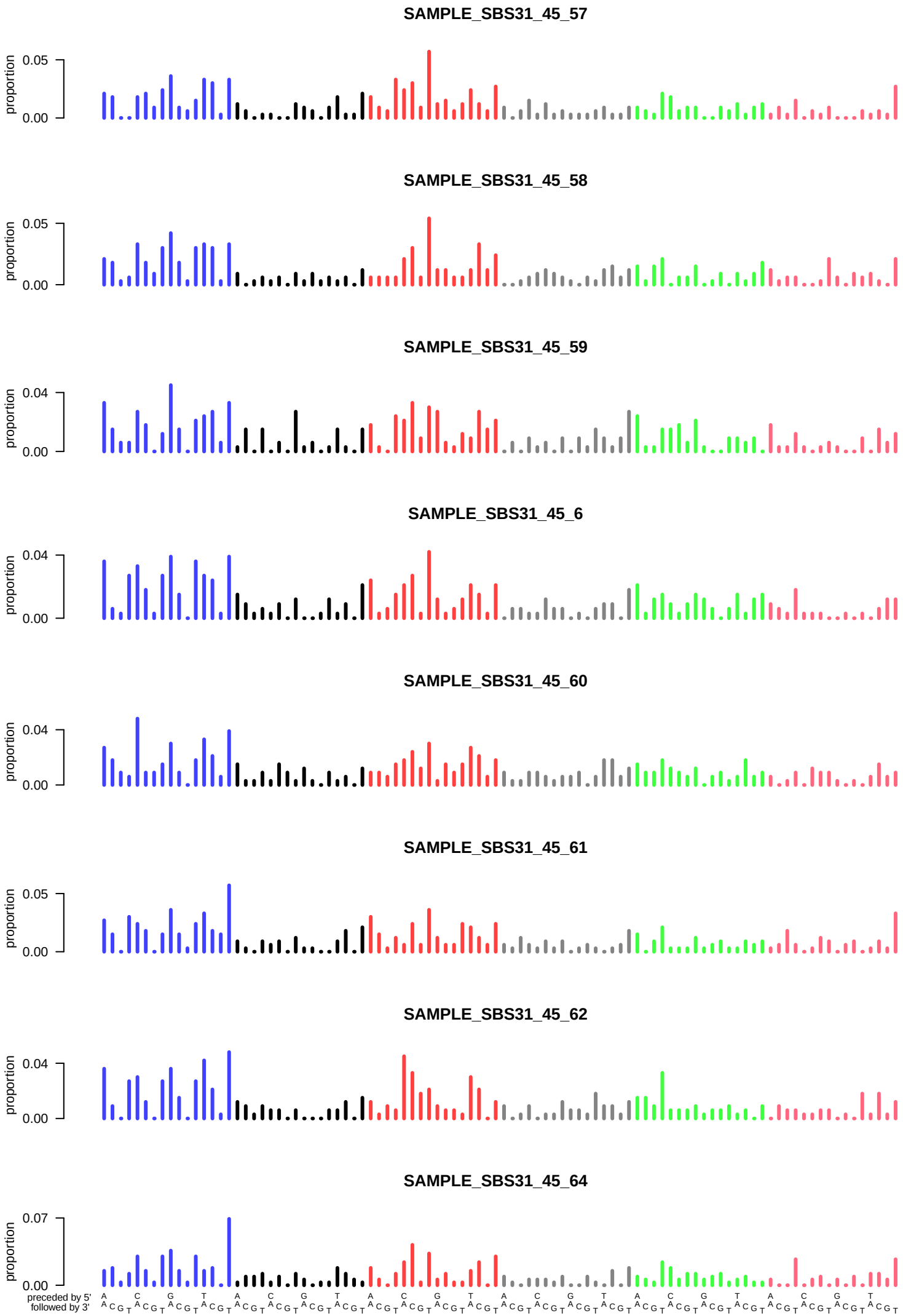
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followed by 3'
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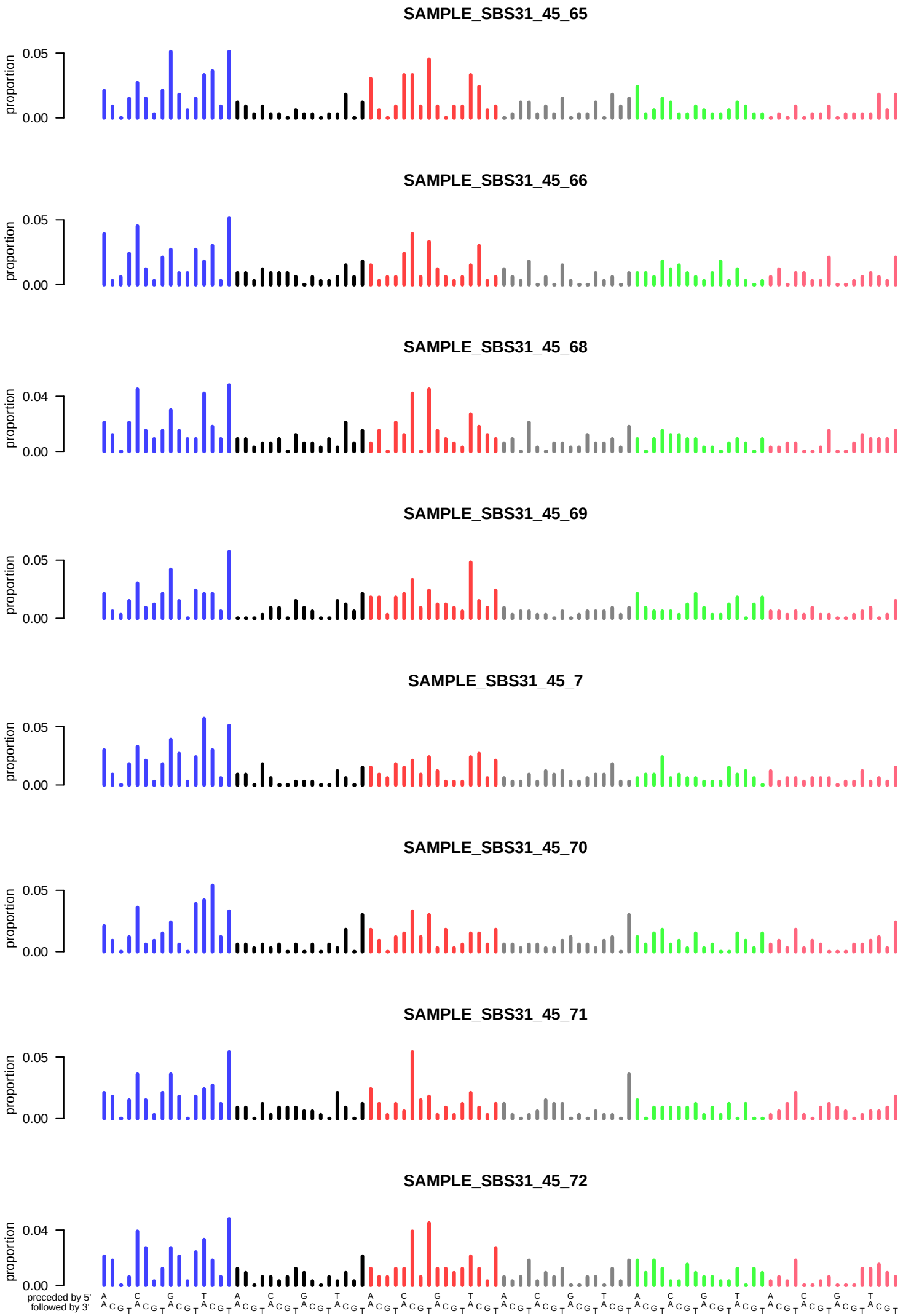
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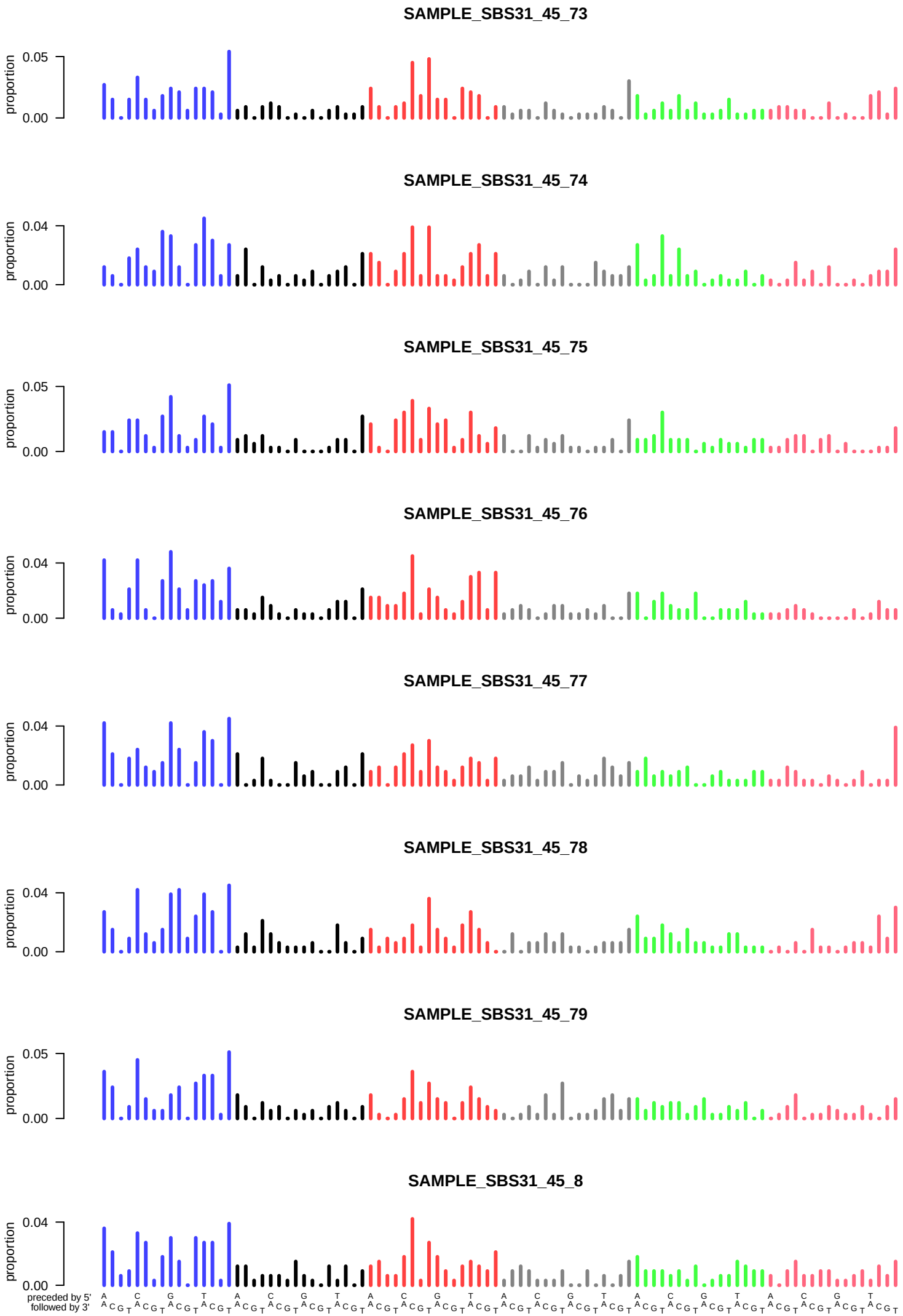
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followed by 3'
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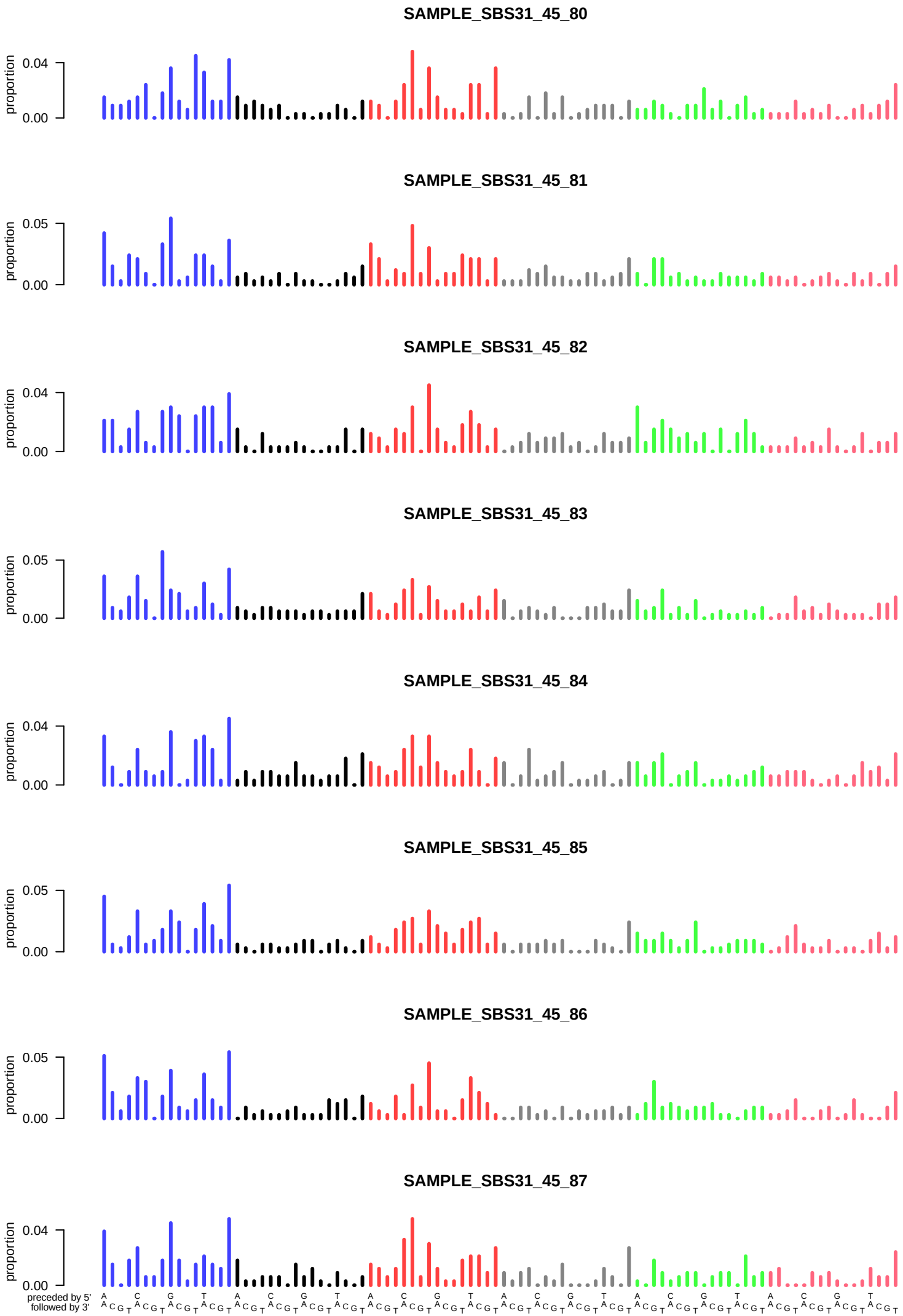
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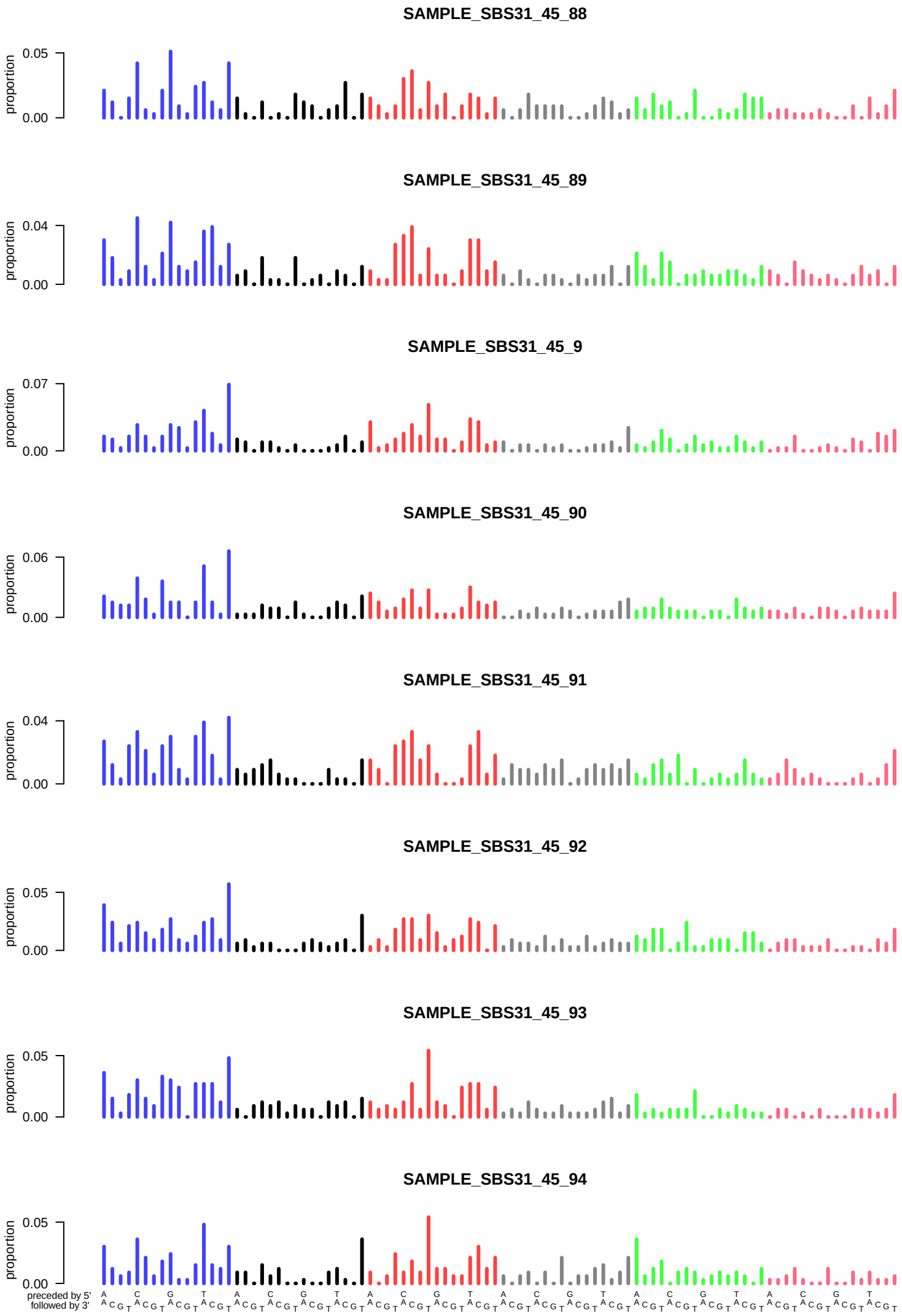
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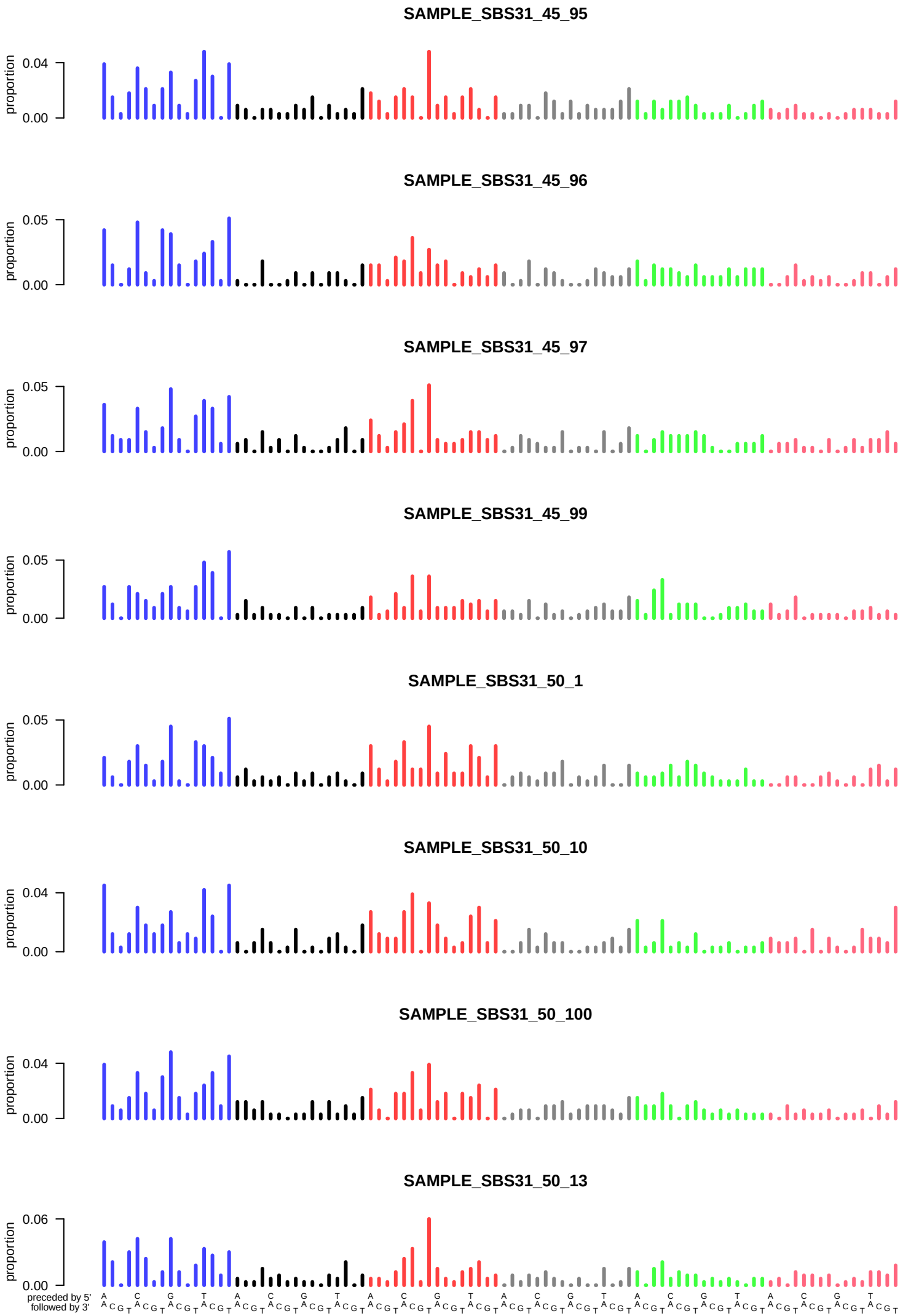
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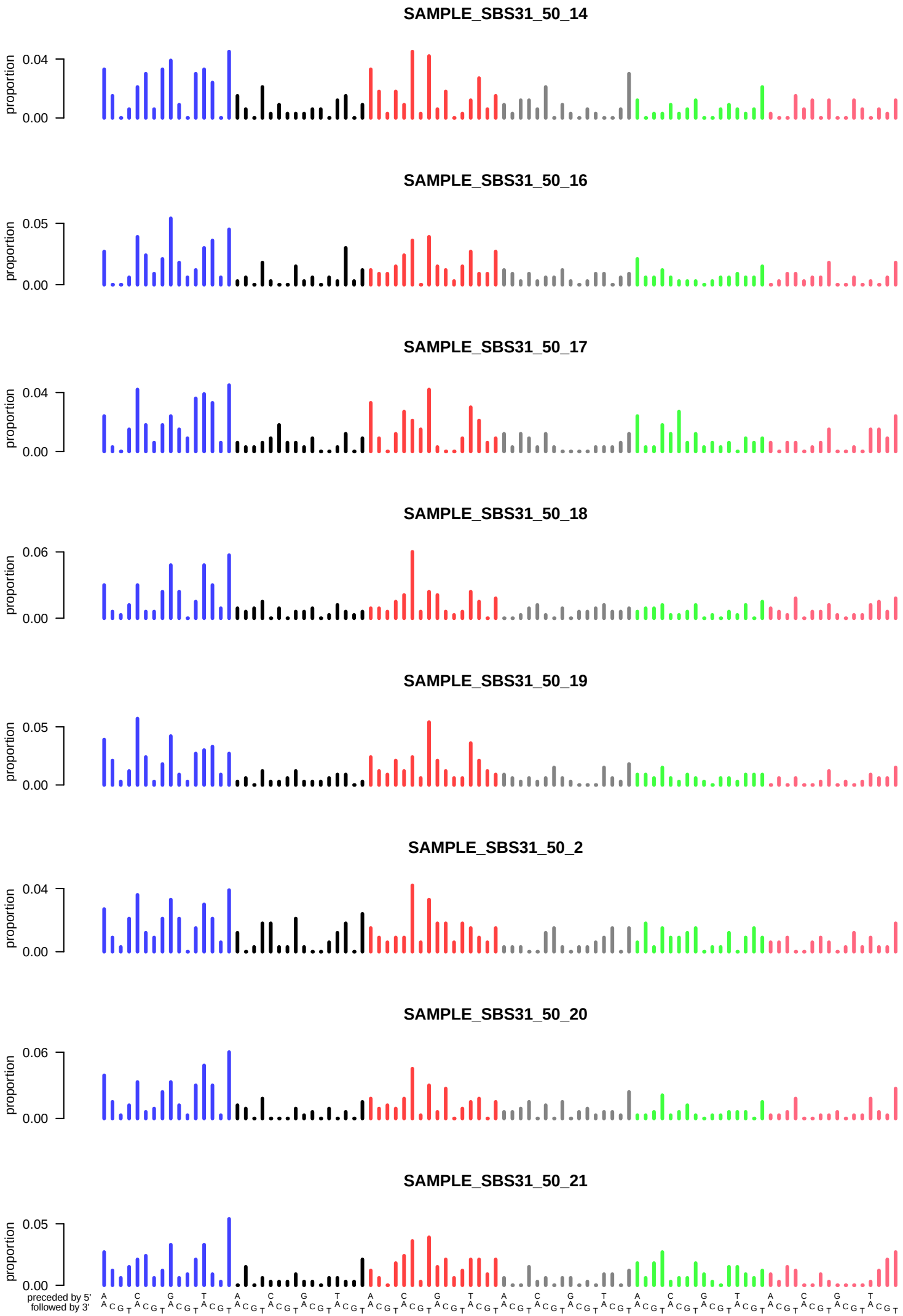
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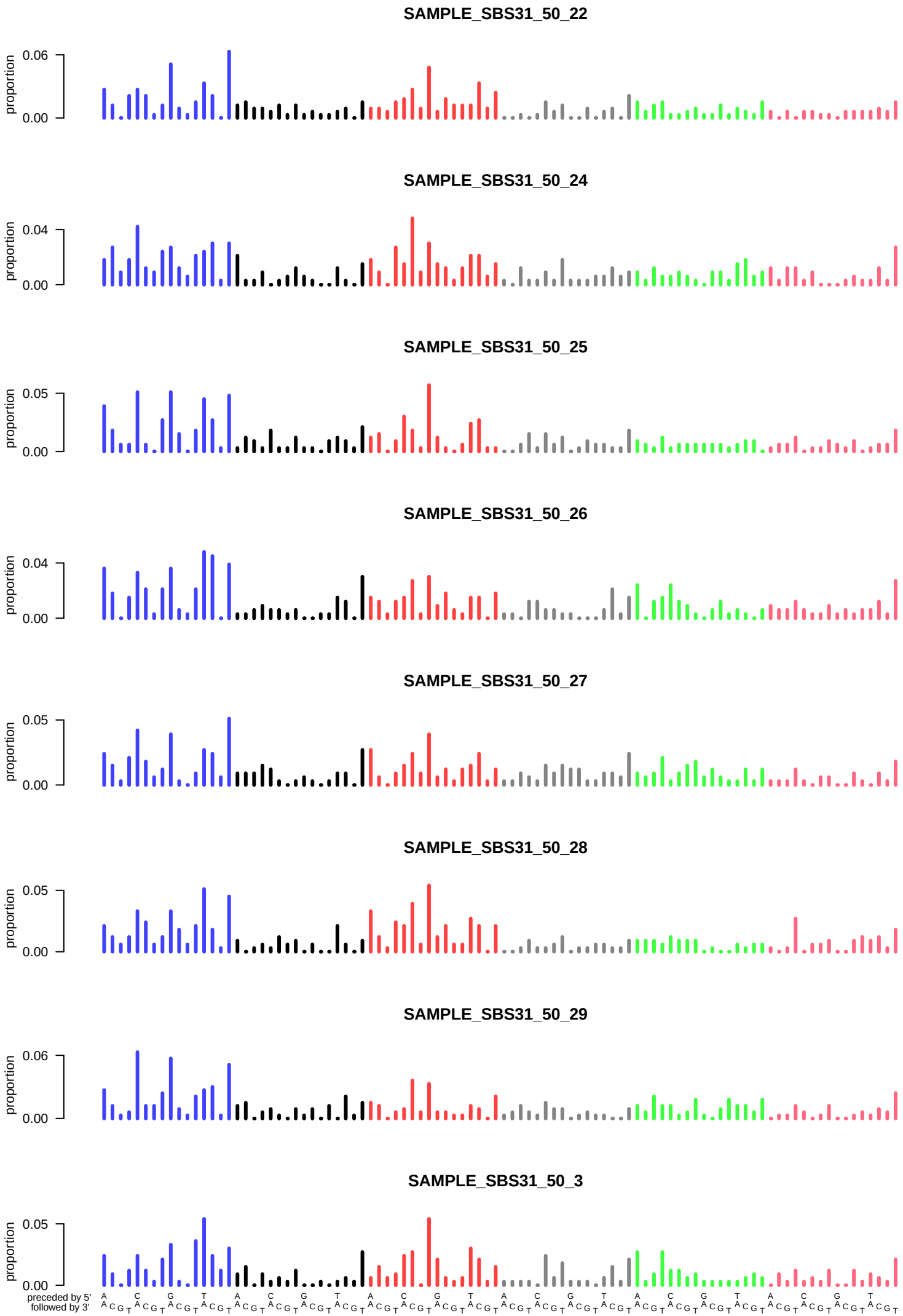
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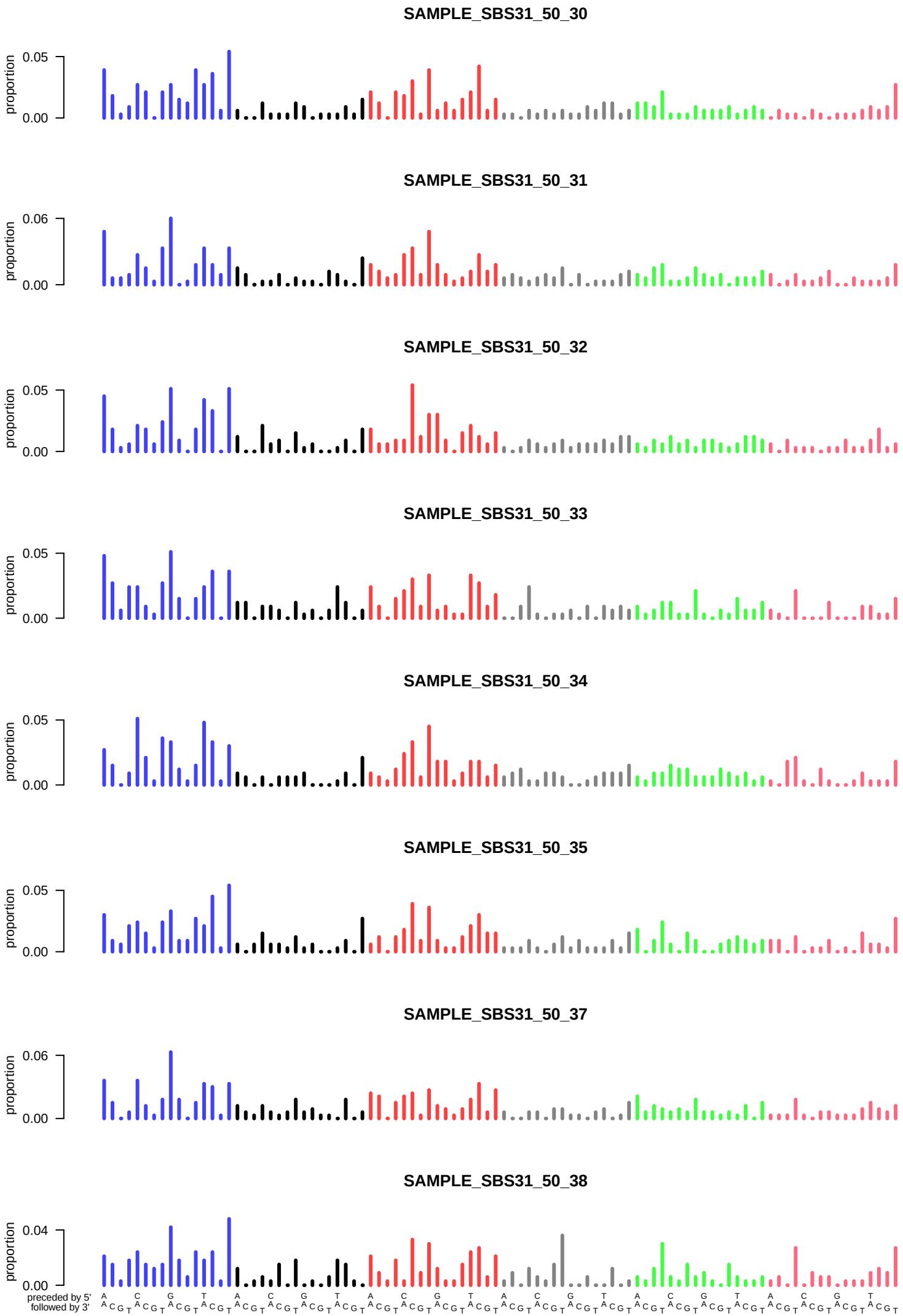
followed by 3'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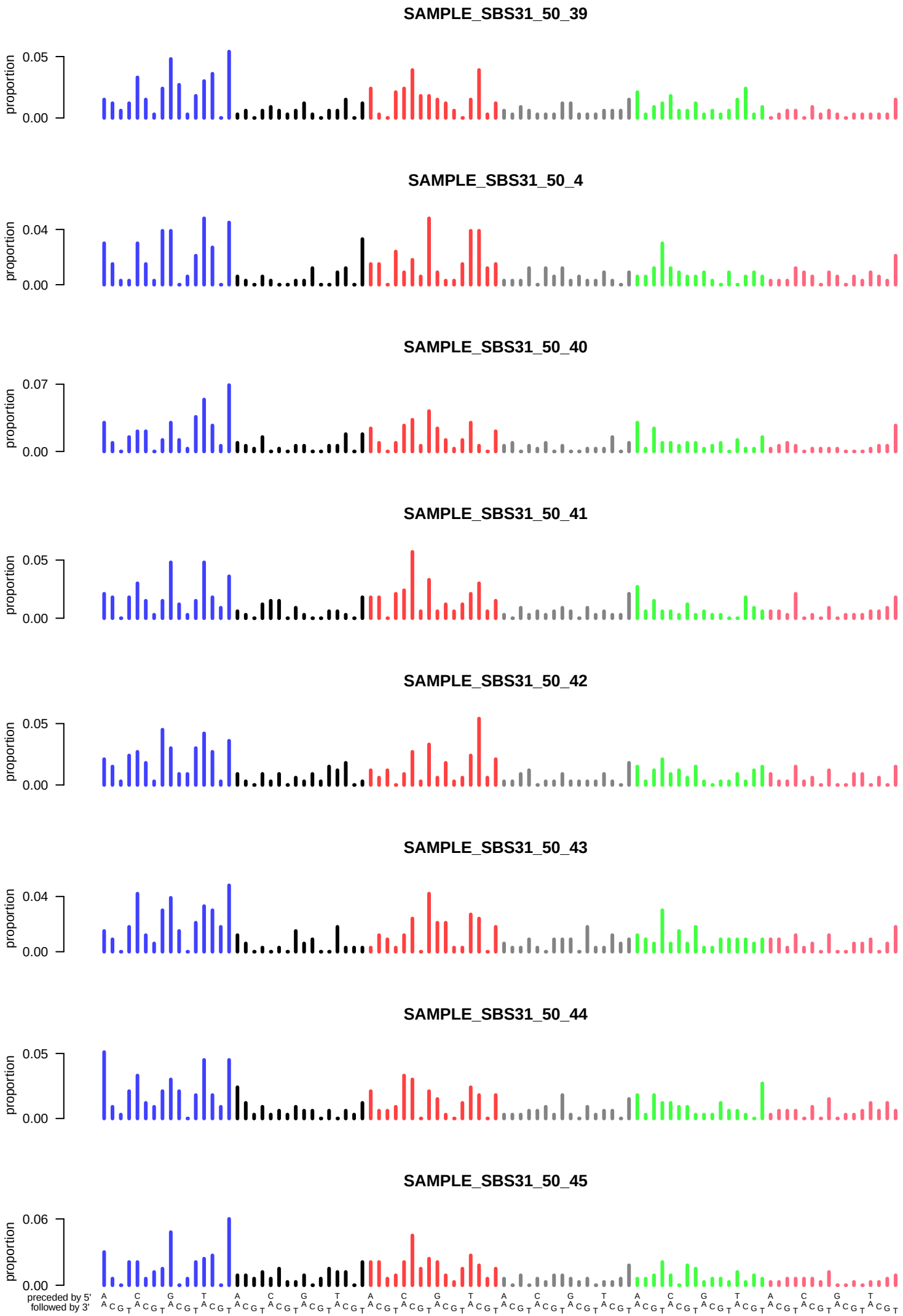
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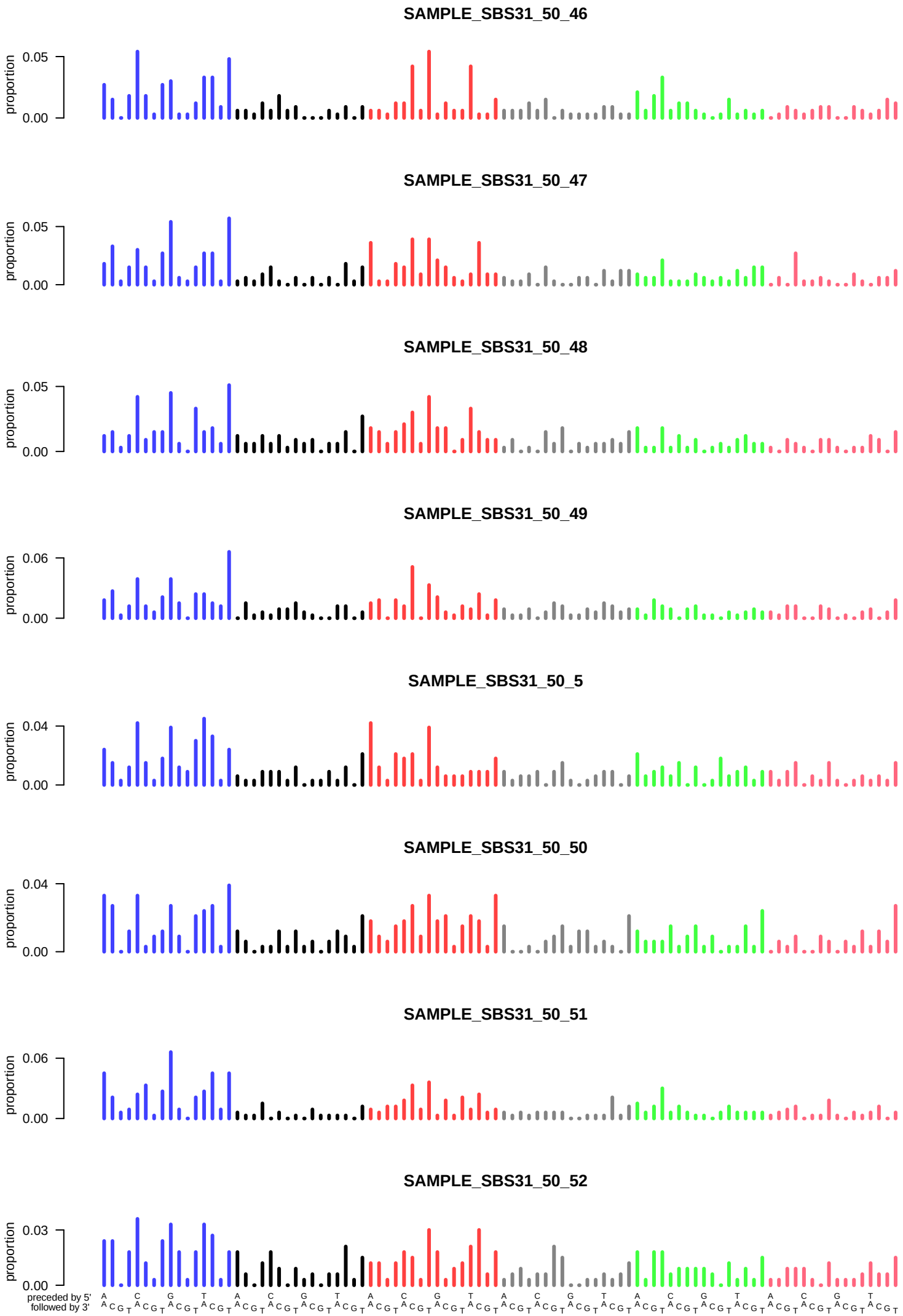
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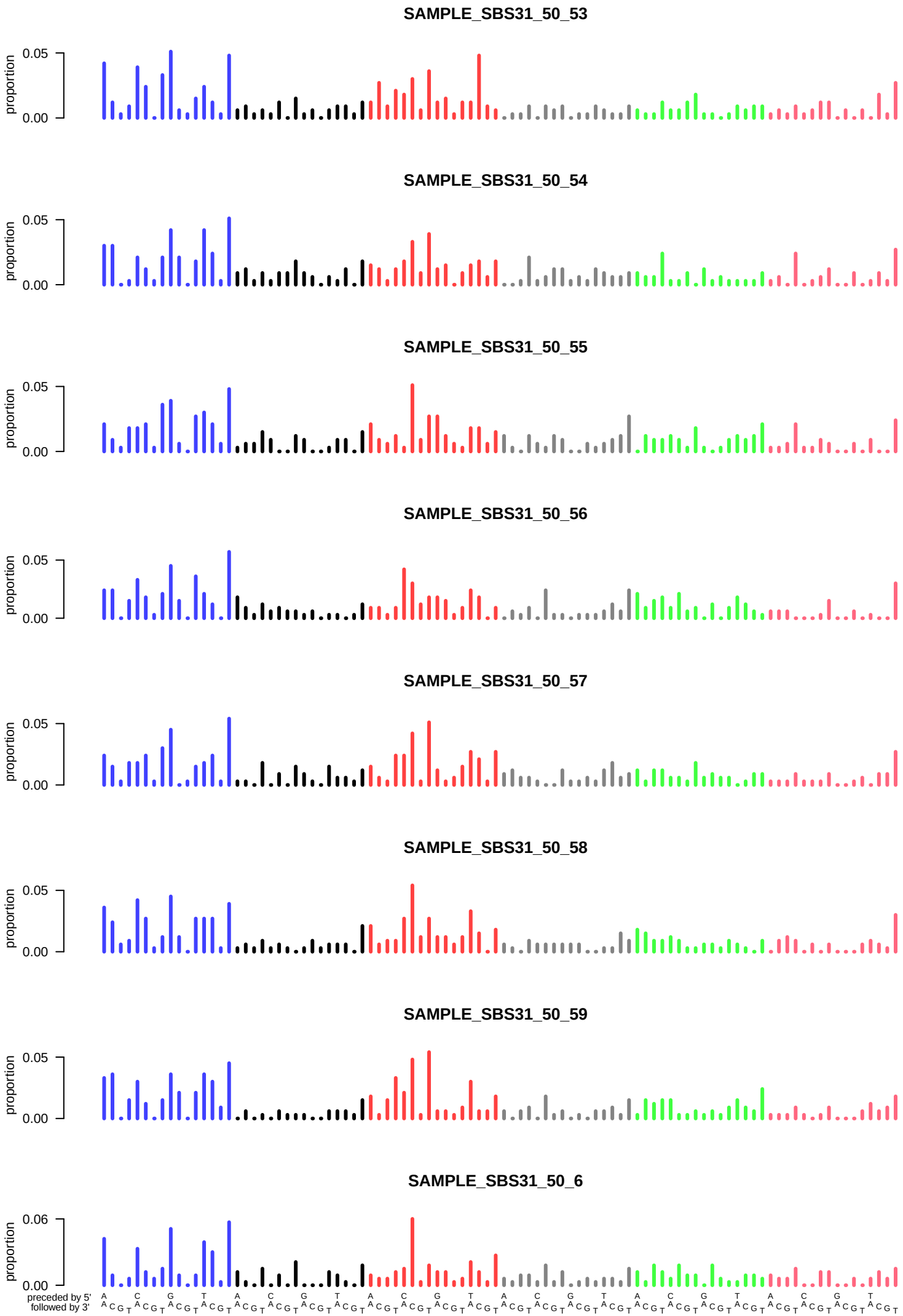
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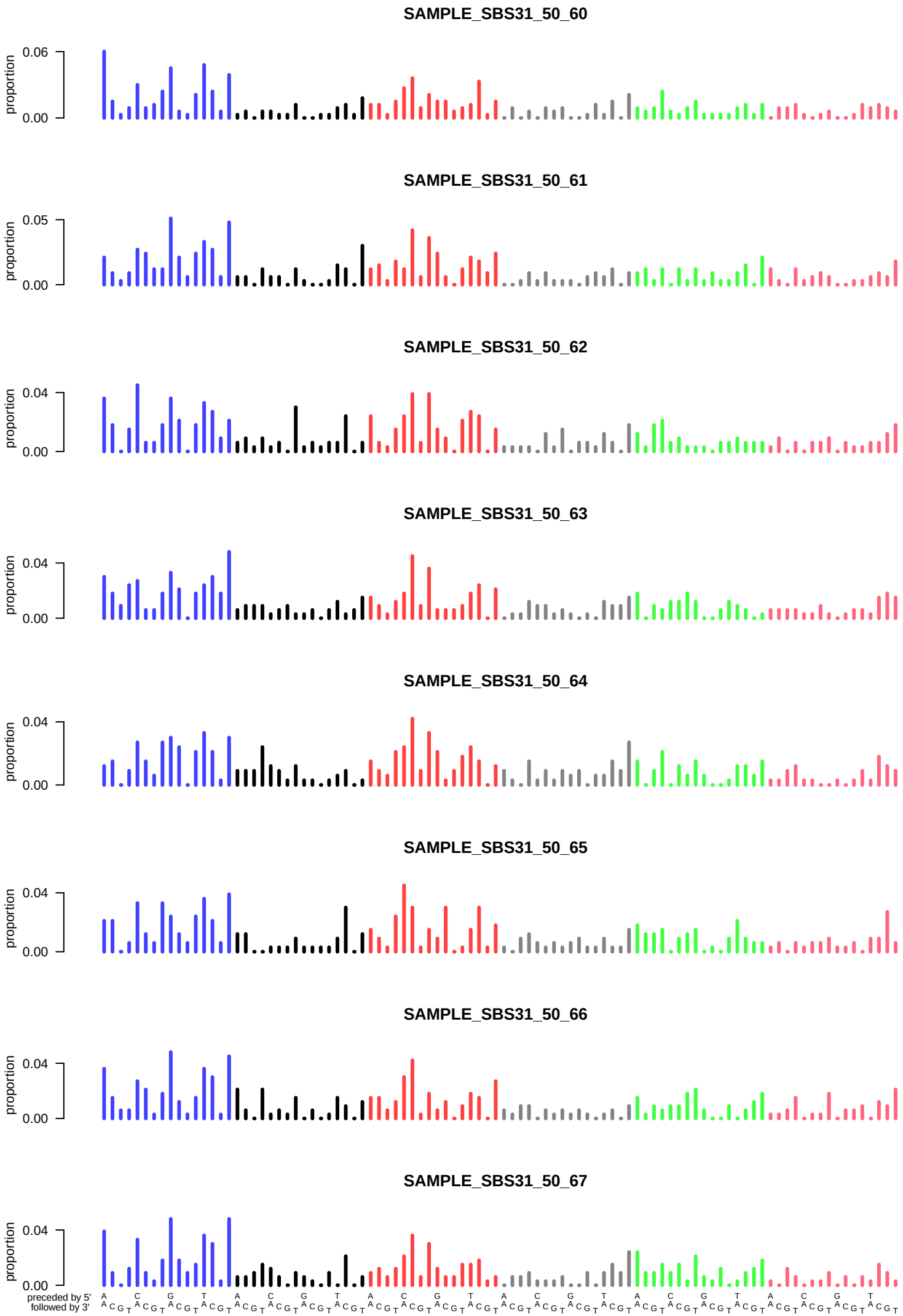
followed by 3'
A C G T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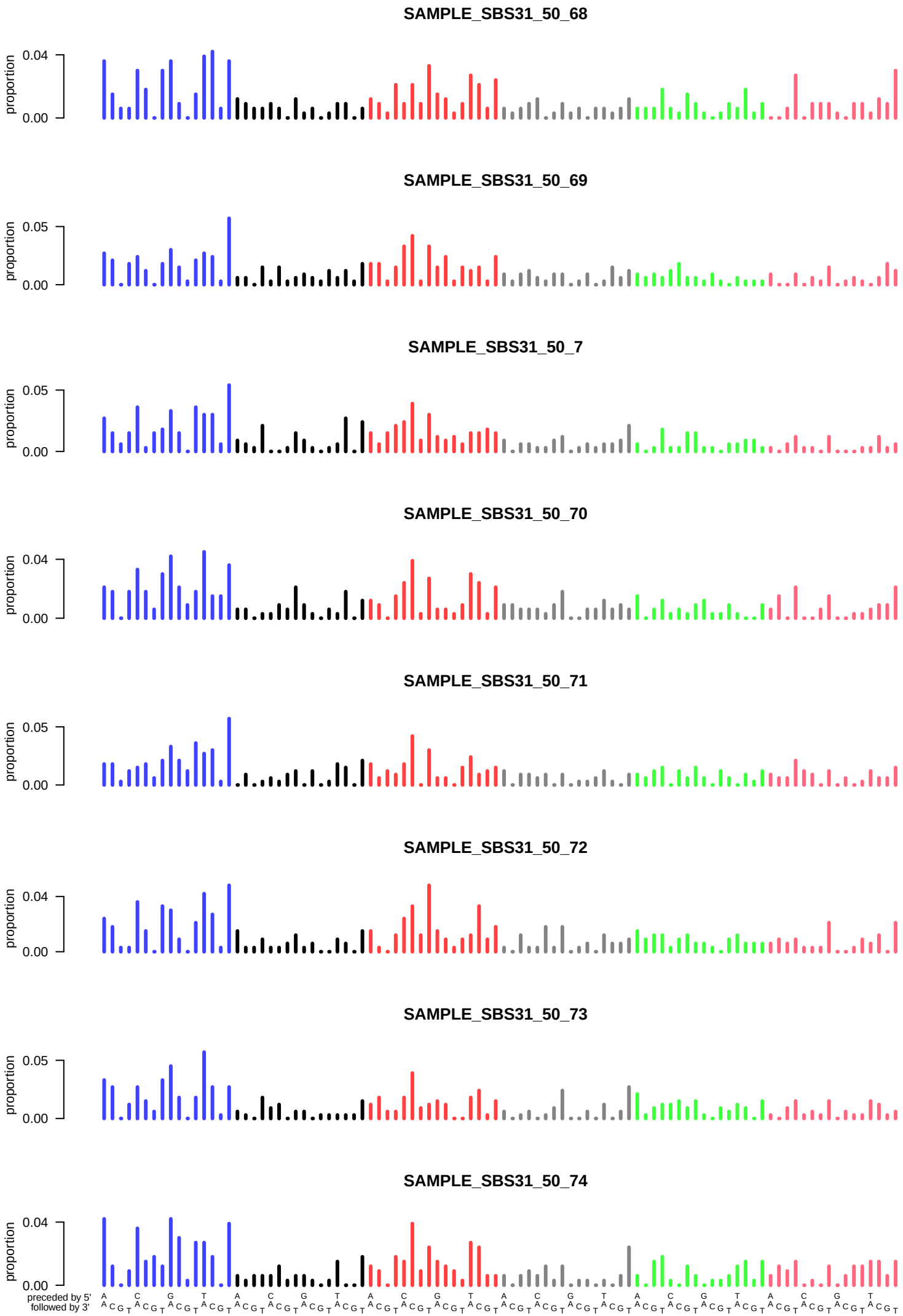
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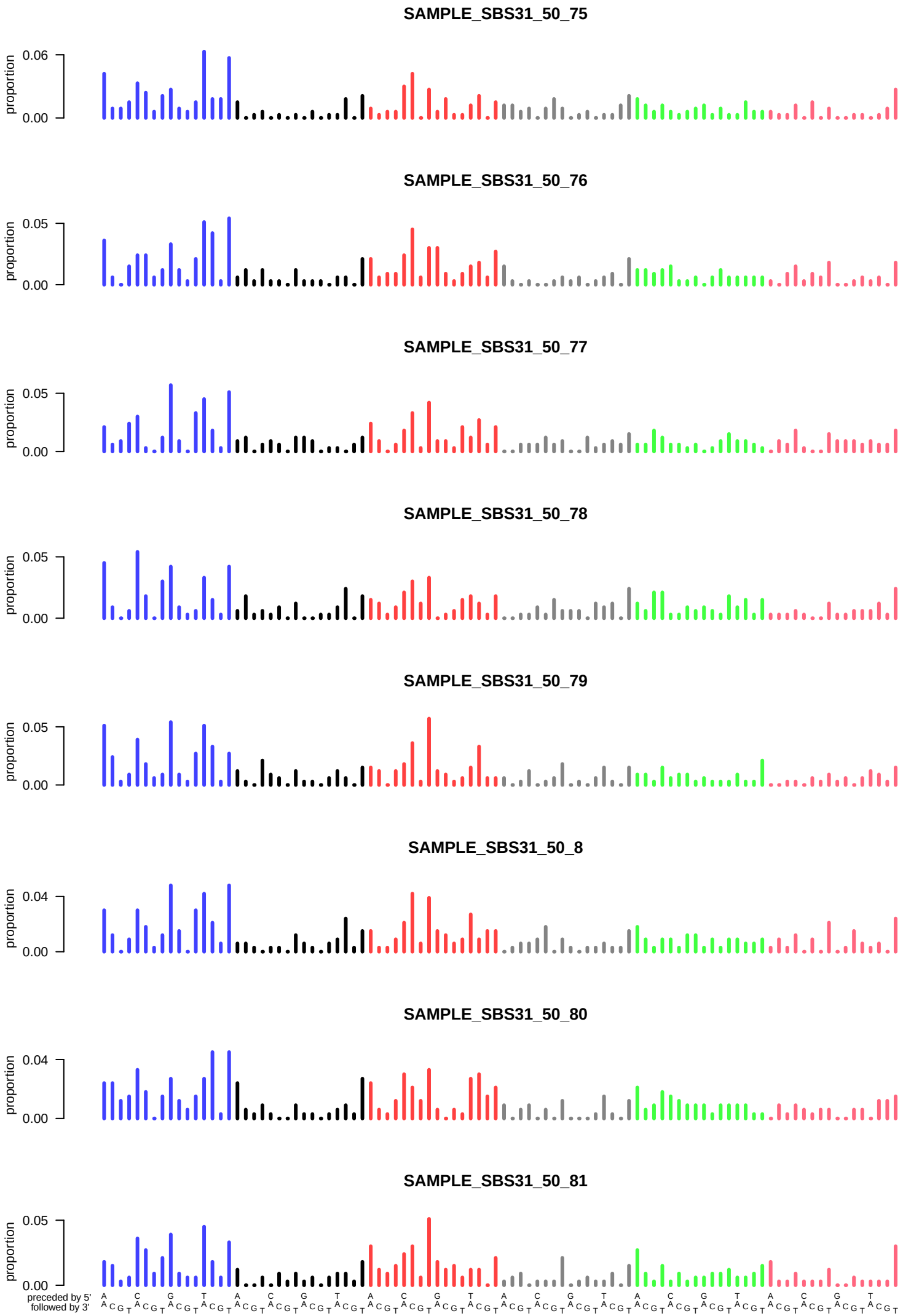
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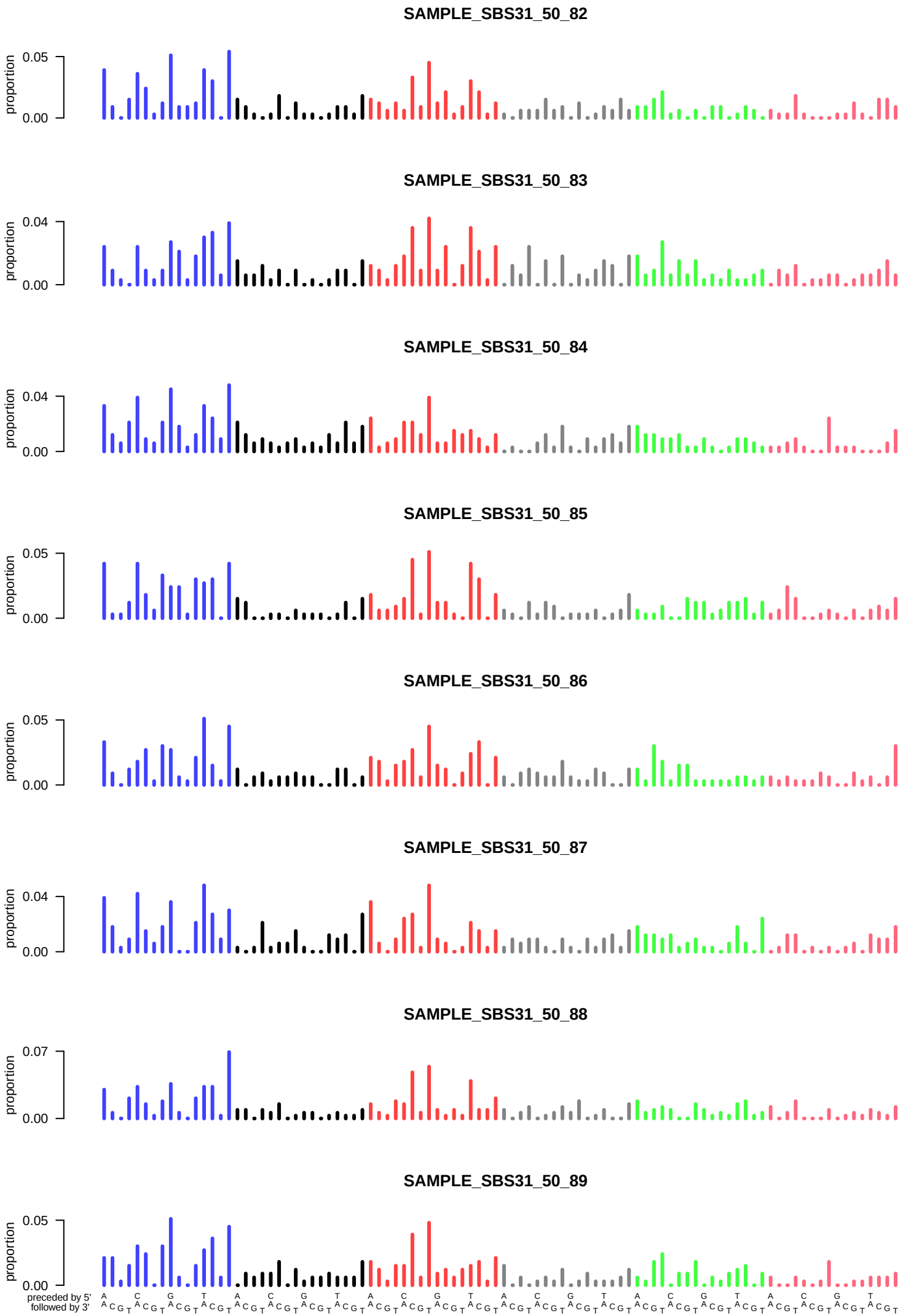
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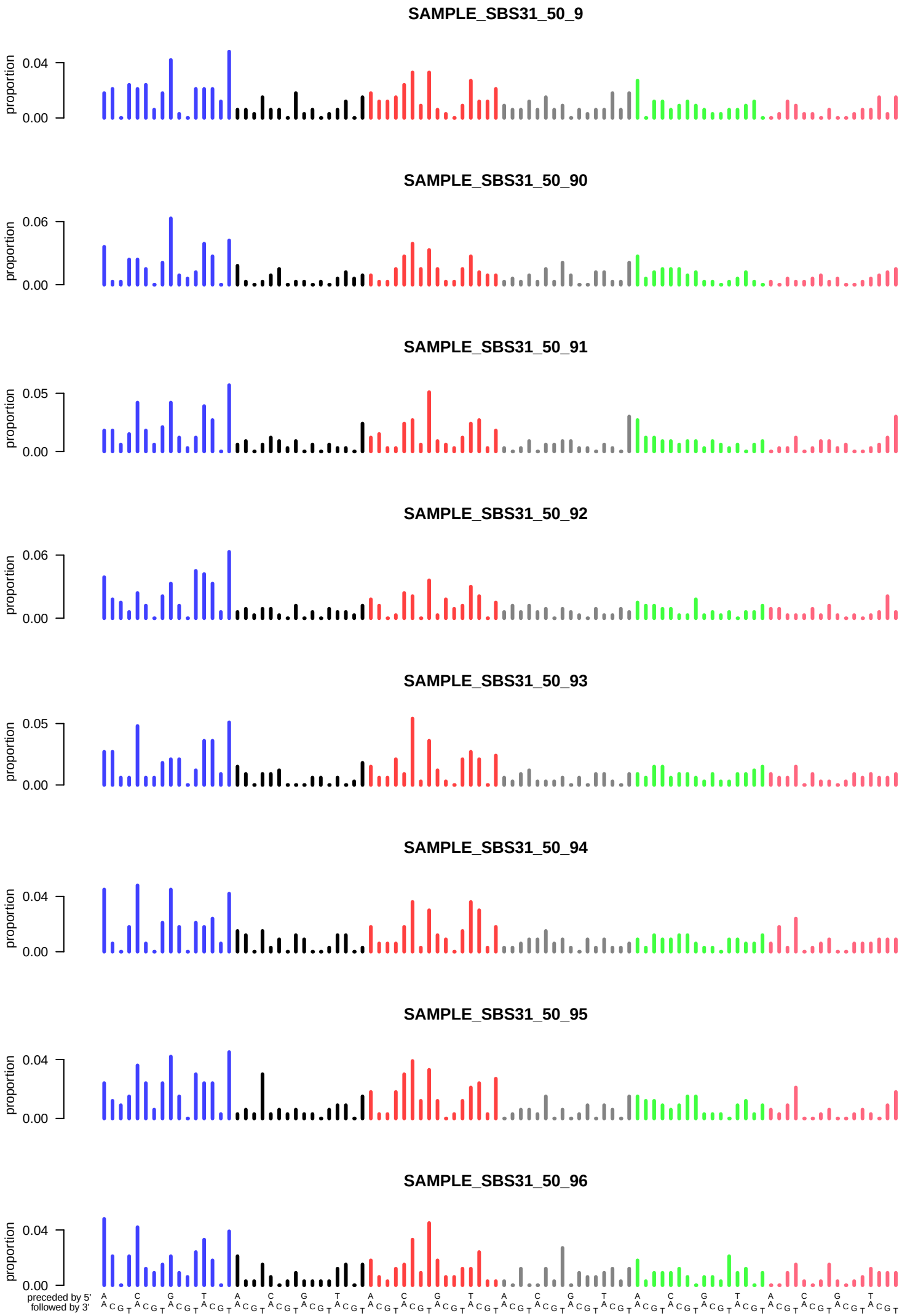
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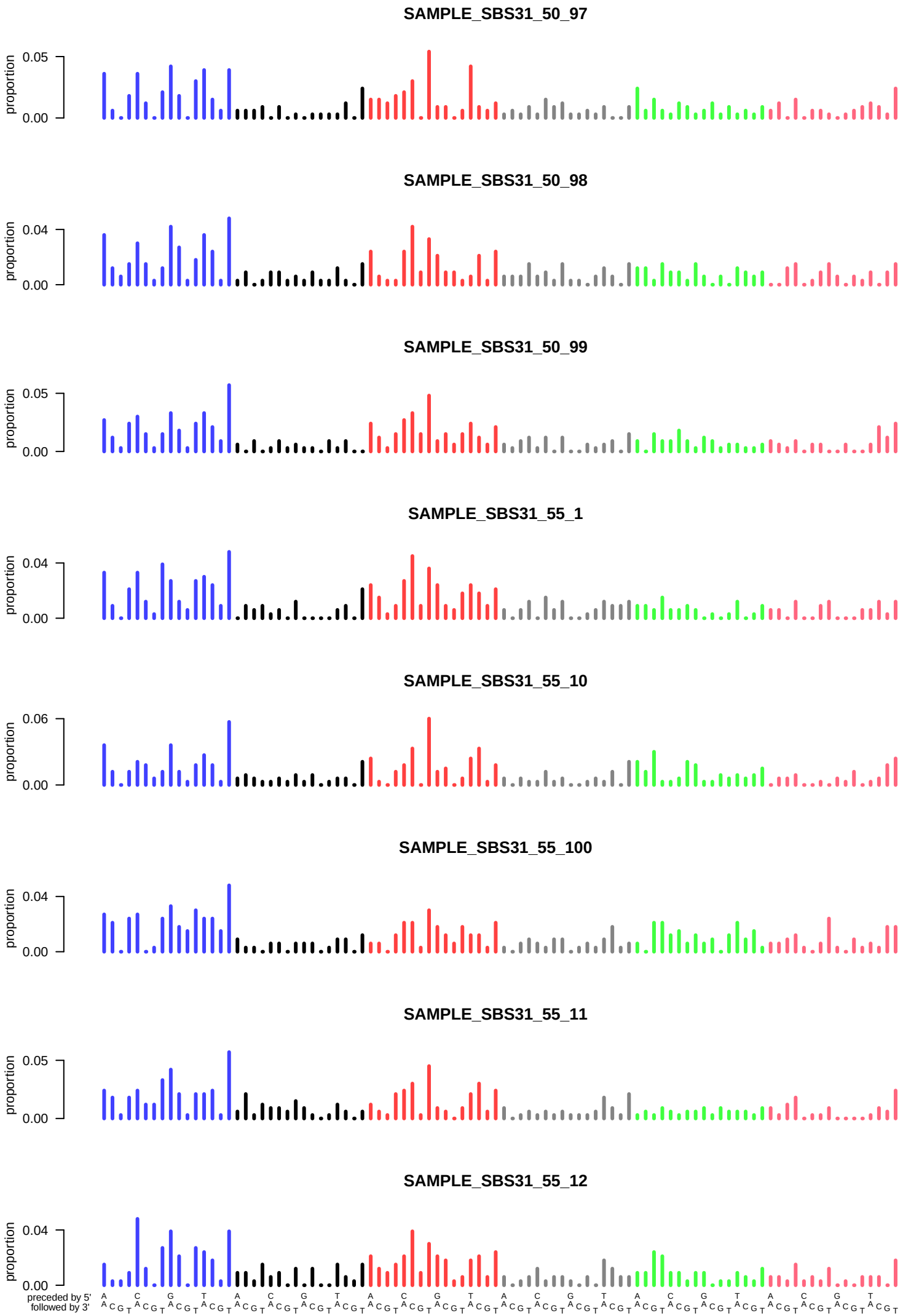
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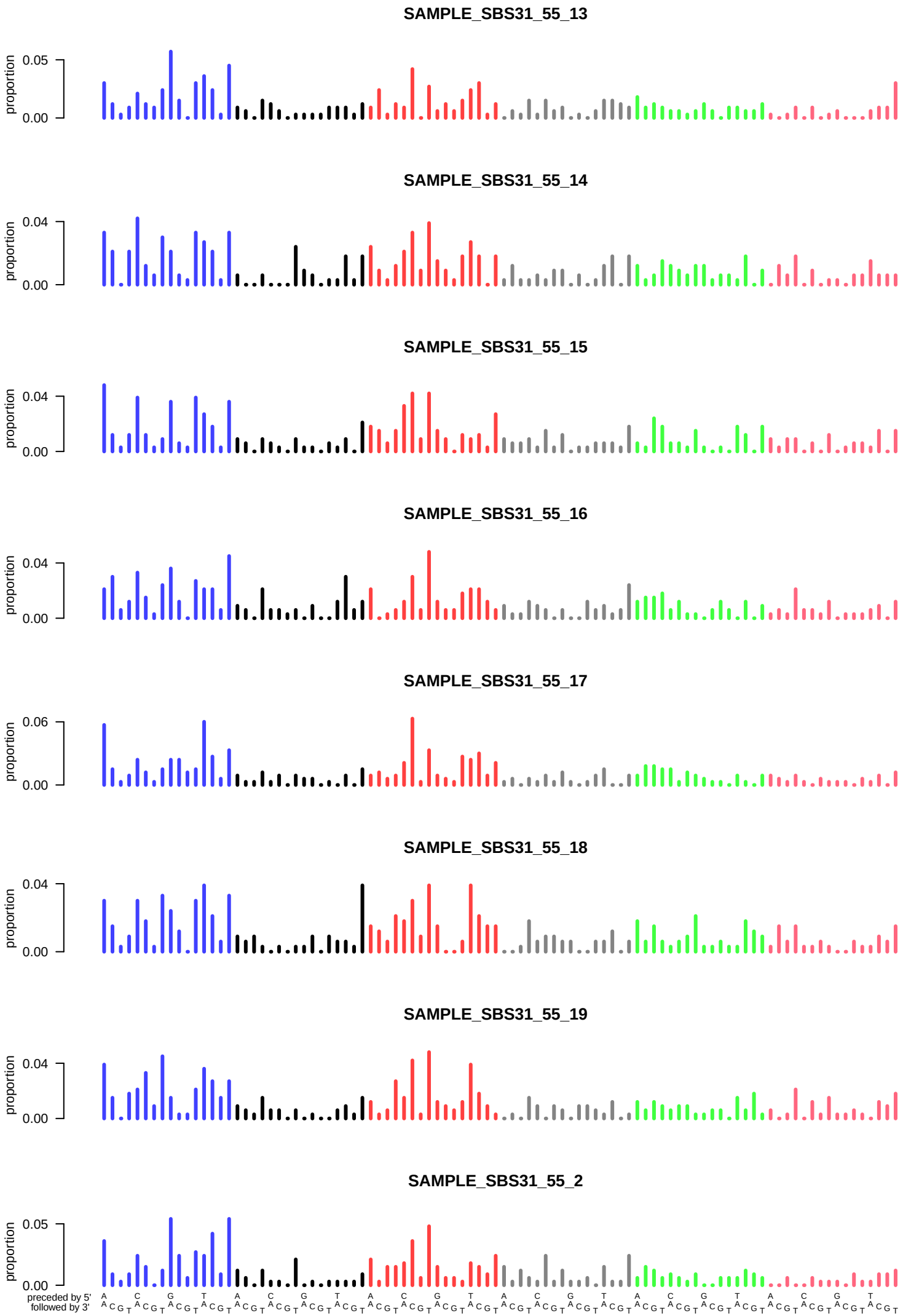
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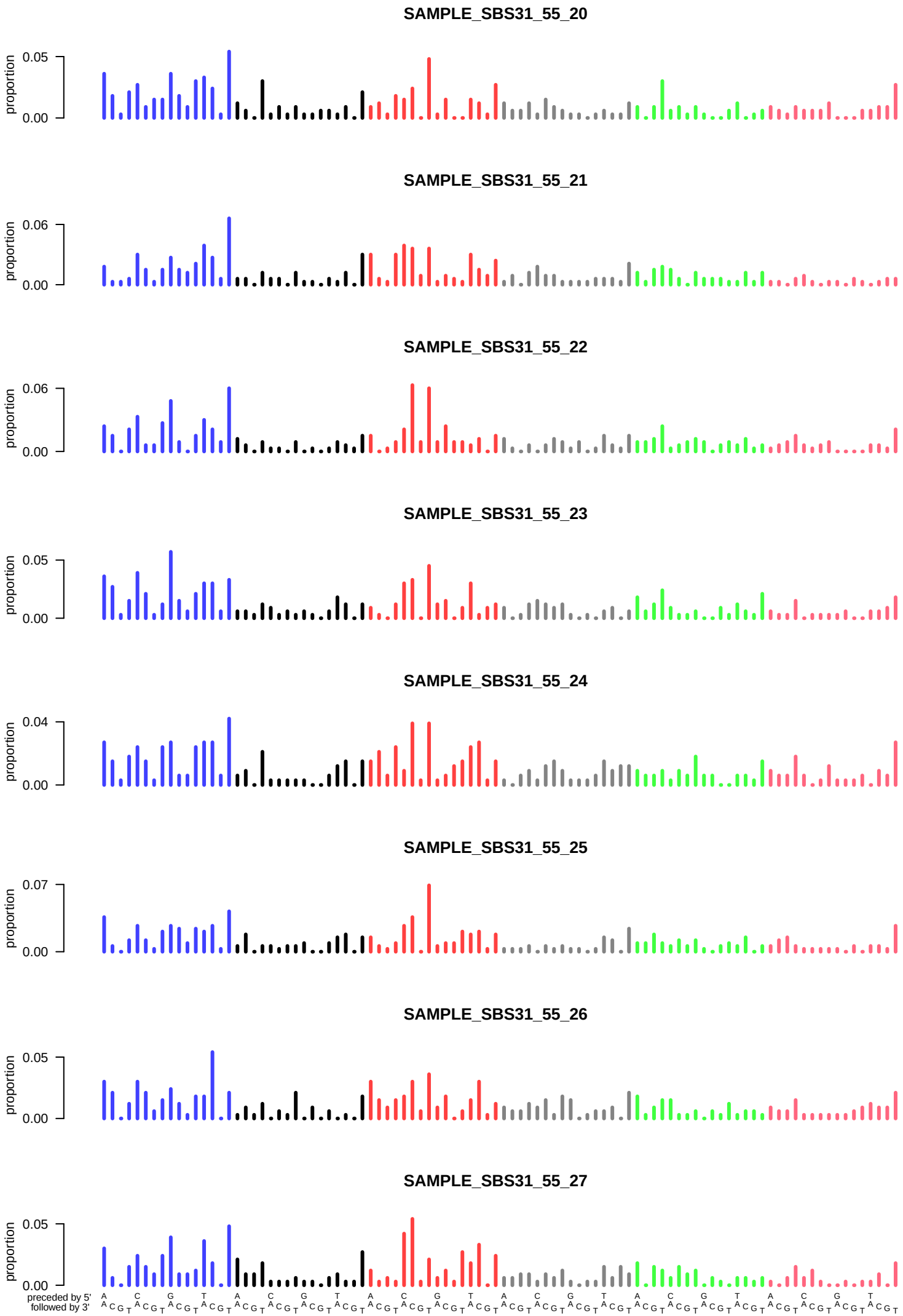
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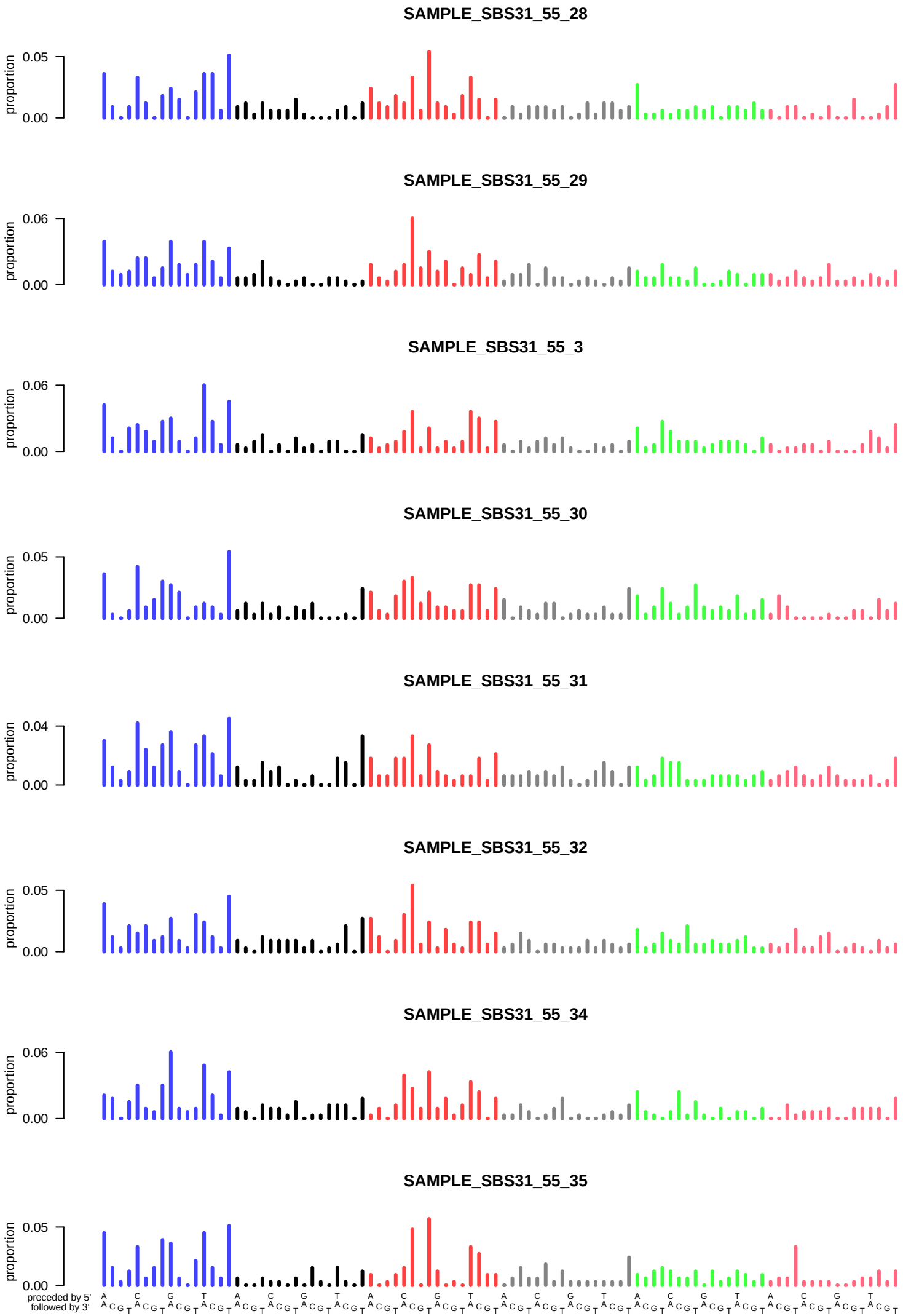
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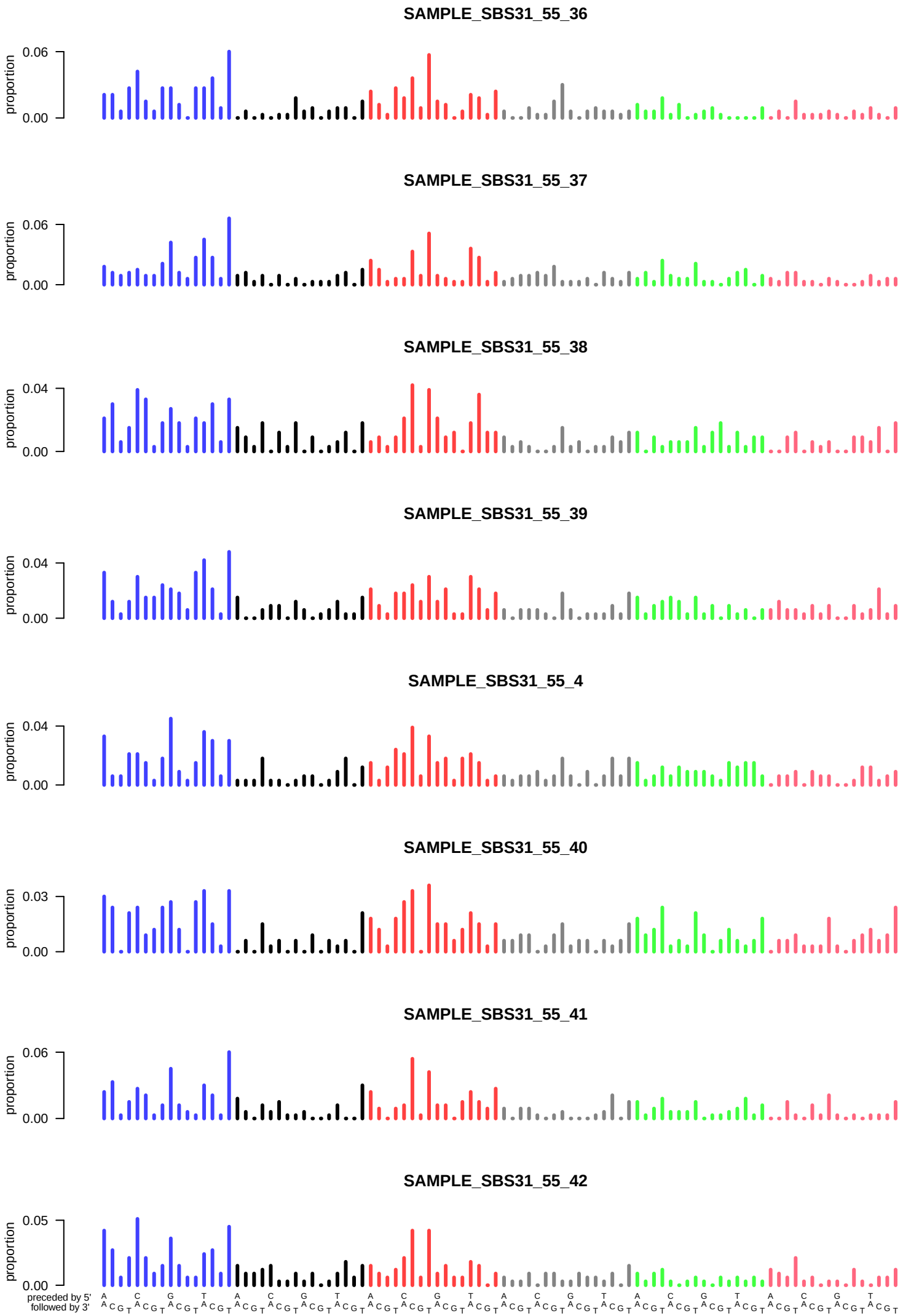
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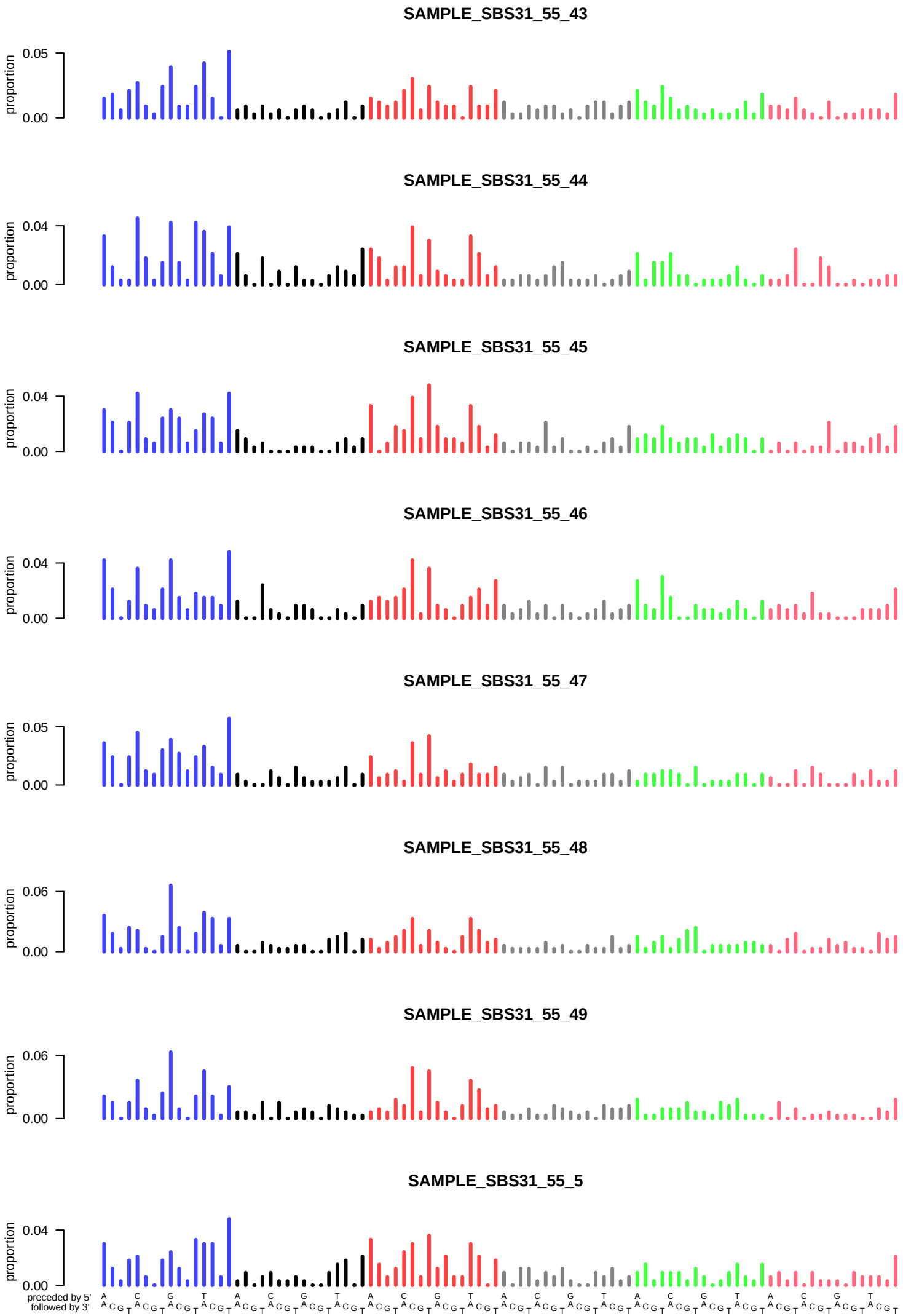
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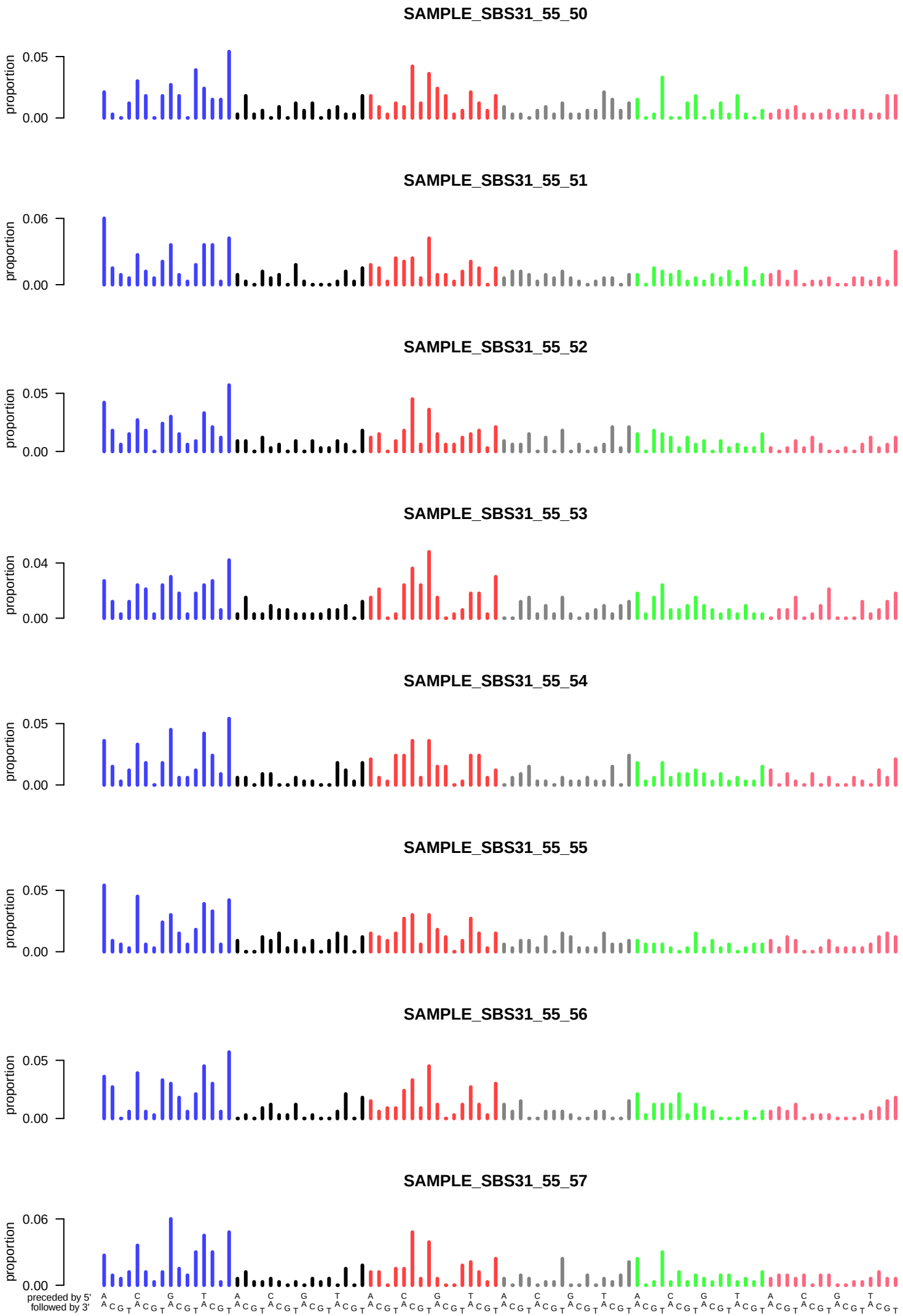
followed by 3'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SAMPLE_SBS31_55_54
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SAMPLE_SBS31_55_56
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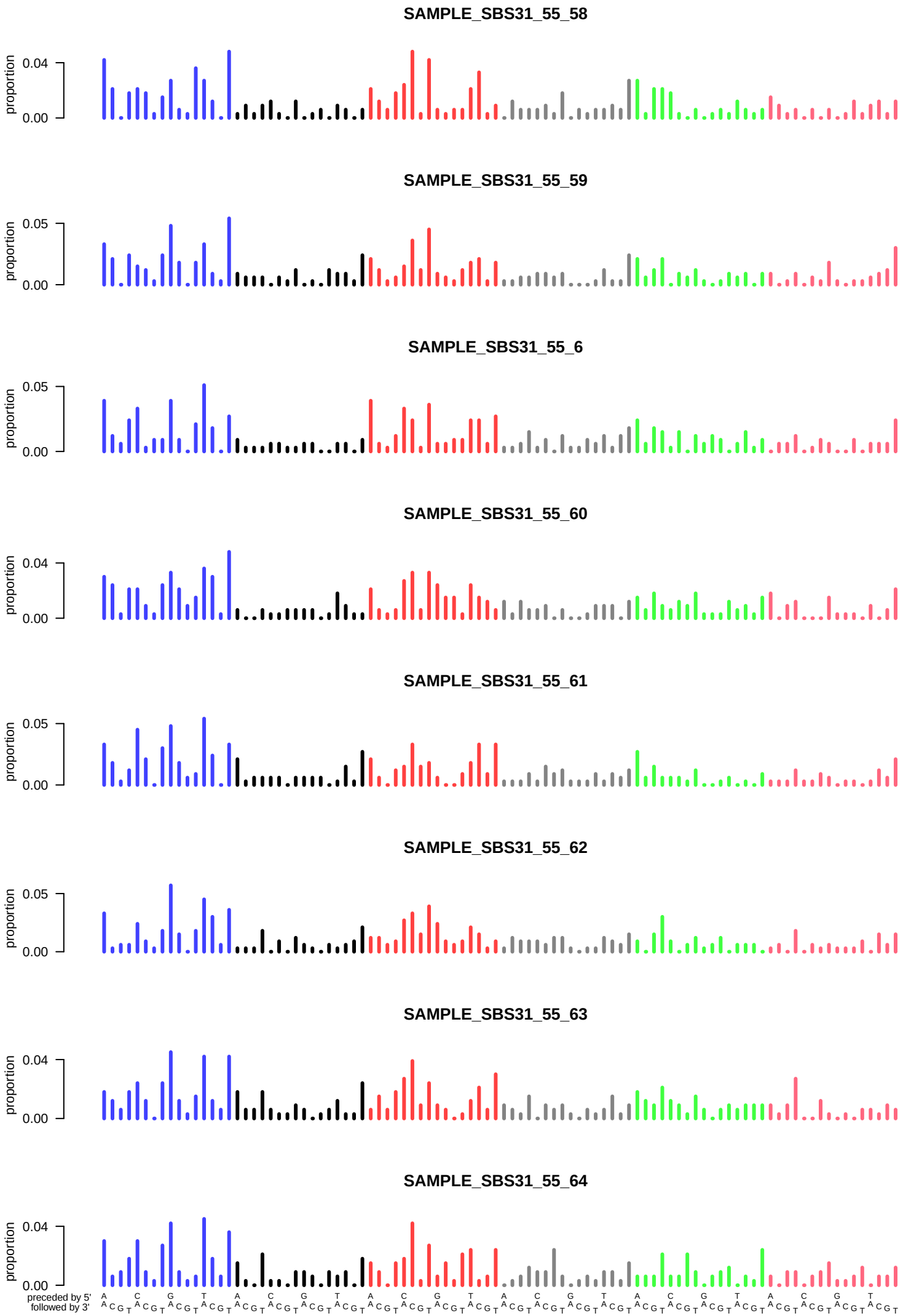
followed by 3'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SAMPLE_SBS31_55_60
proportion
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SAMPLE_SBS31_55_61
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SAMPLE_SBS31_55_62
proportion
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SAMPLE_SBS31_55_63
proportion
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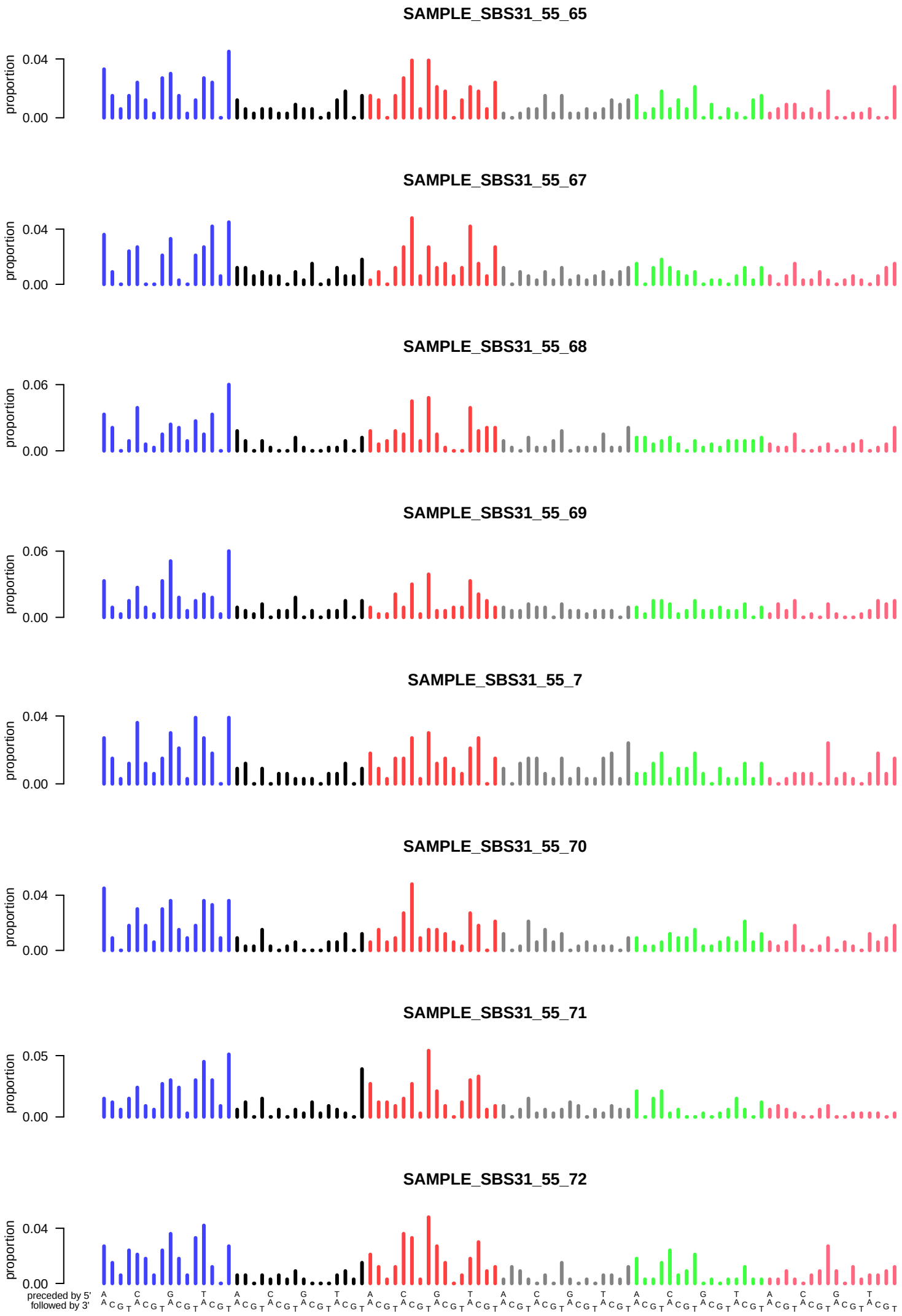
followed by 3'
A C G T A C G T A C G T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SAMPLE_SBS31_55_69
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SAMPLE_SBS31_55_7
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SAMPLE_SBS31_55_70
proportion
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SAMPLE_SBS31_55_71
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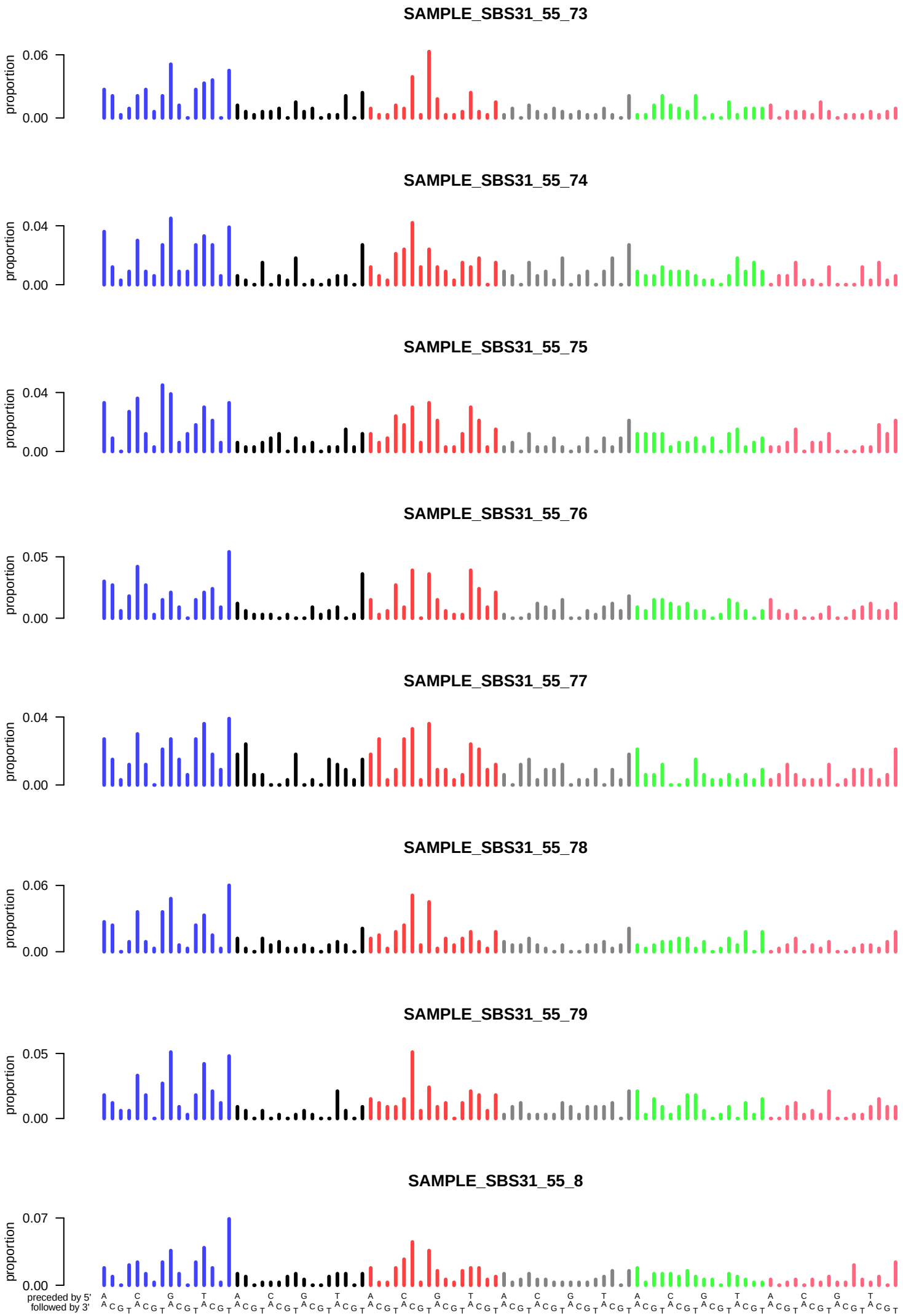
followed by 3'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SAMPLE_SBS31_55_78
proportion
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SAMPLE_SBS31_55_79
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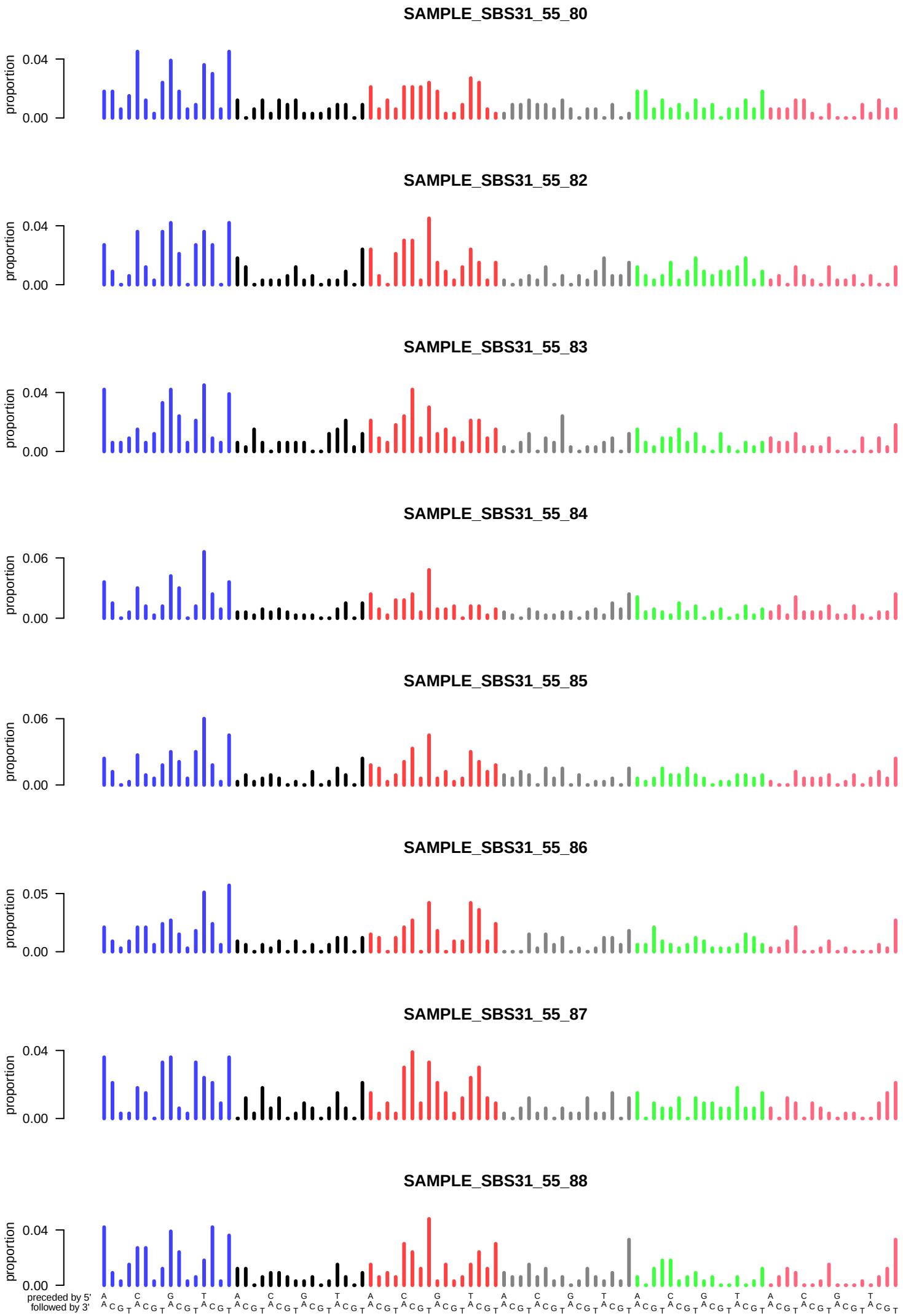
followed by 3'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SAMPLE_SBS31_55_87
proportion
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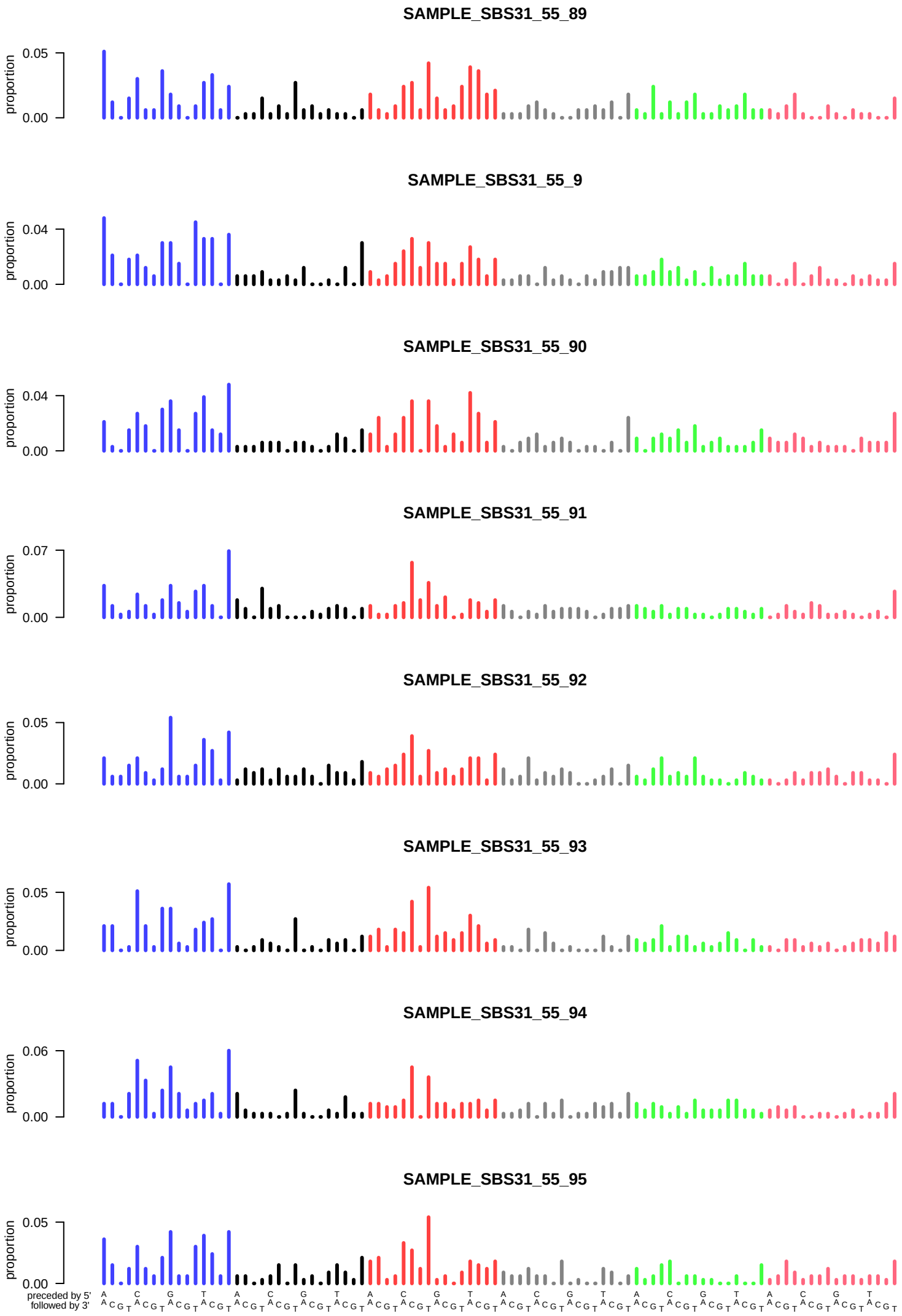
followed by 3'
A C G T A C G T A C G T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SAMPLE_SBS31_55_93
proportion
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SAMPLE_SBS31_55_94
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SAMPLE_SBS31_55_95
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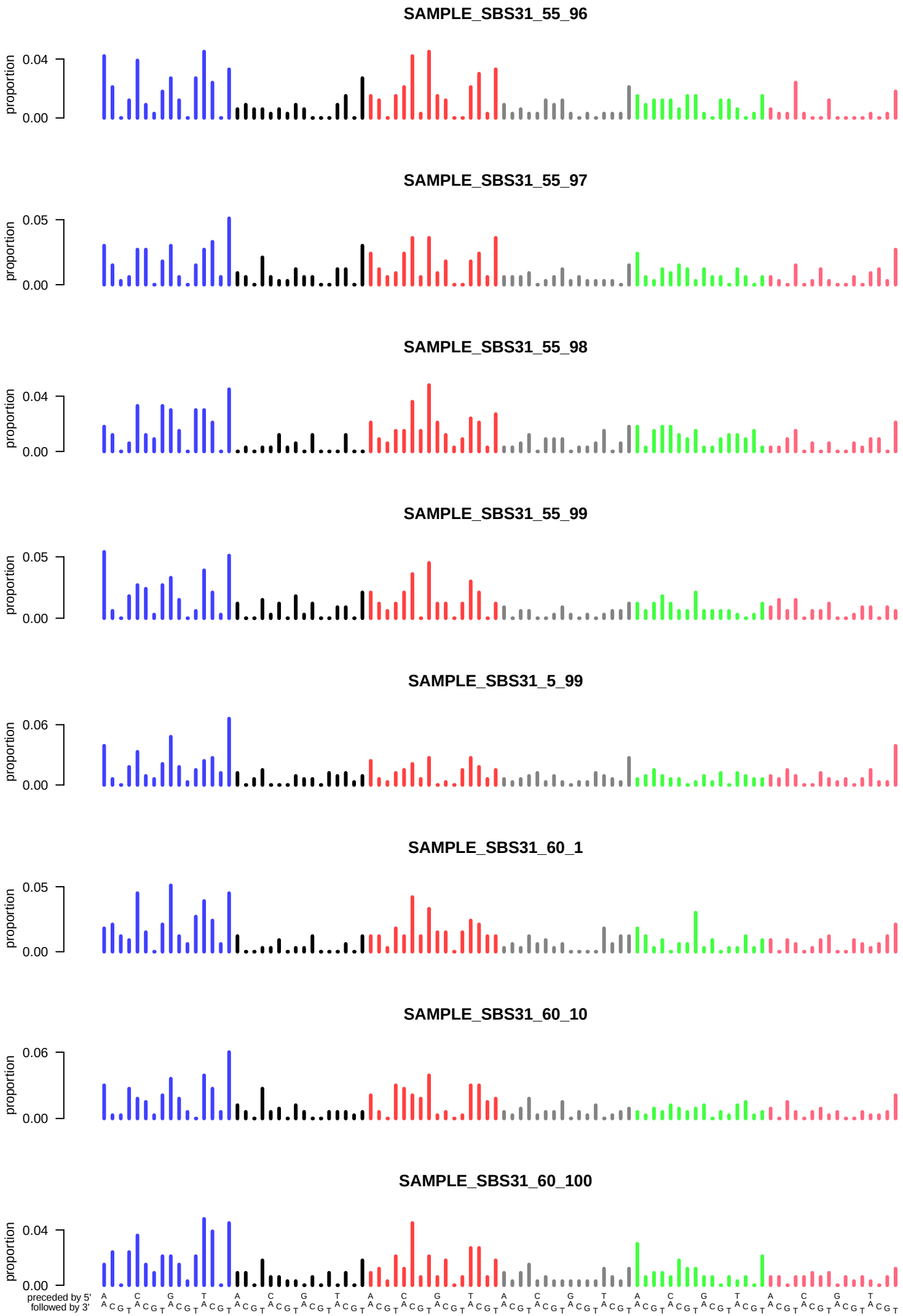
preceded by 5'
followed by 3'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SAMPLE_SBS31_55_98
proportion
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SAMPLE_SBS31_55_99
proportion
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SAMPLE_SBS31_5_99
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SAMPLE_SBS31_60_1
proportion
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SAMPLE_SBS31_60_10
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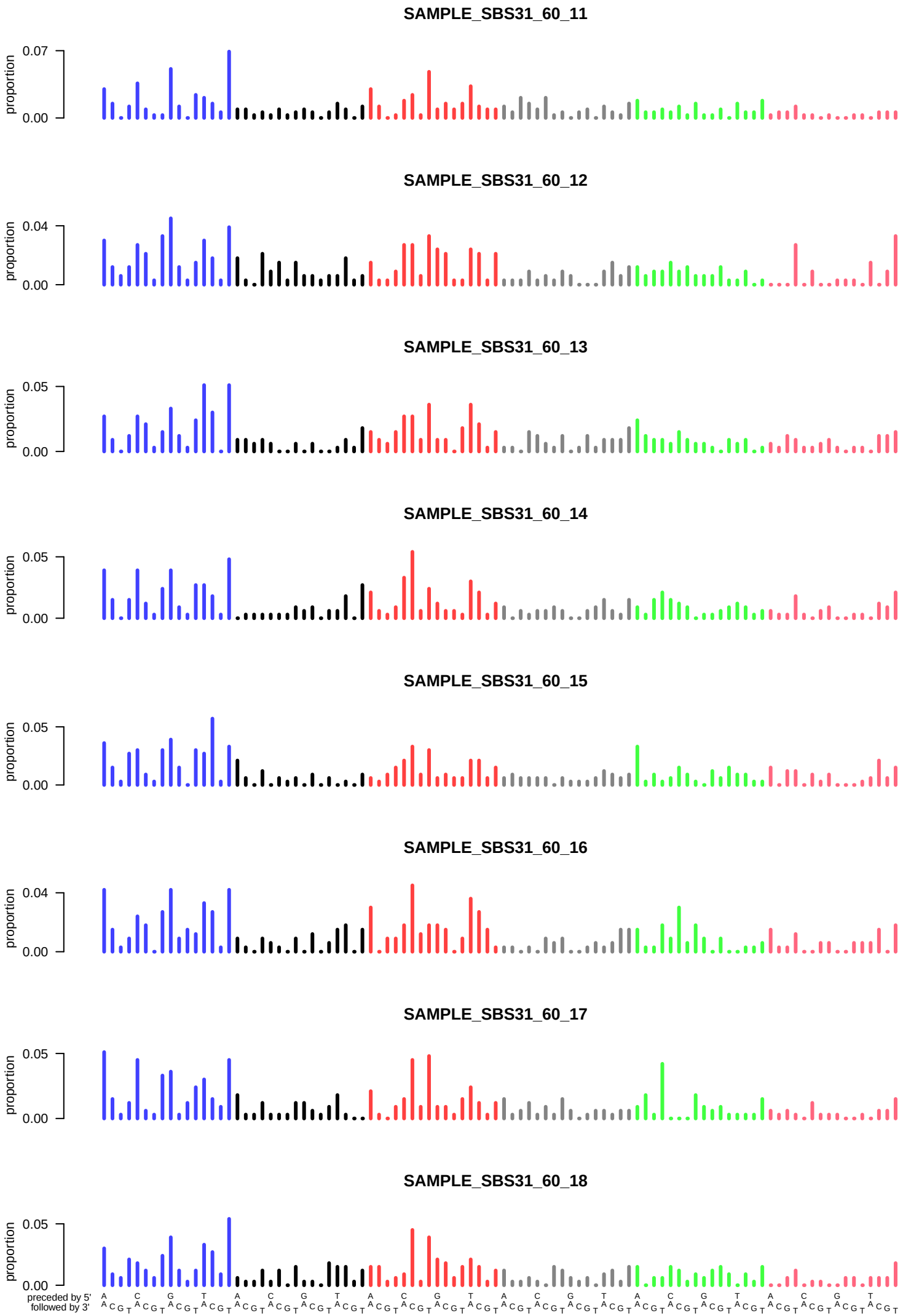
preceded by 5'
followed by 3'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SAMPLE_SBS31_60_15
SAMPLE_SBS31_60_16
SAMPLE_SBS31_60_17
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0.04
0.05
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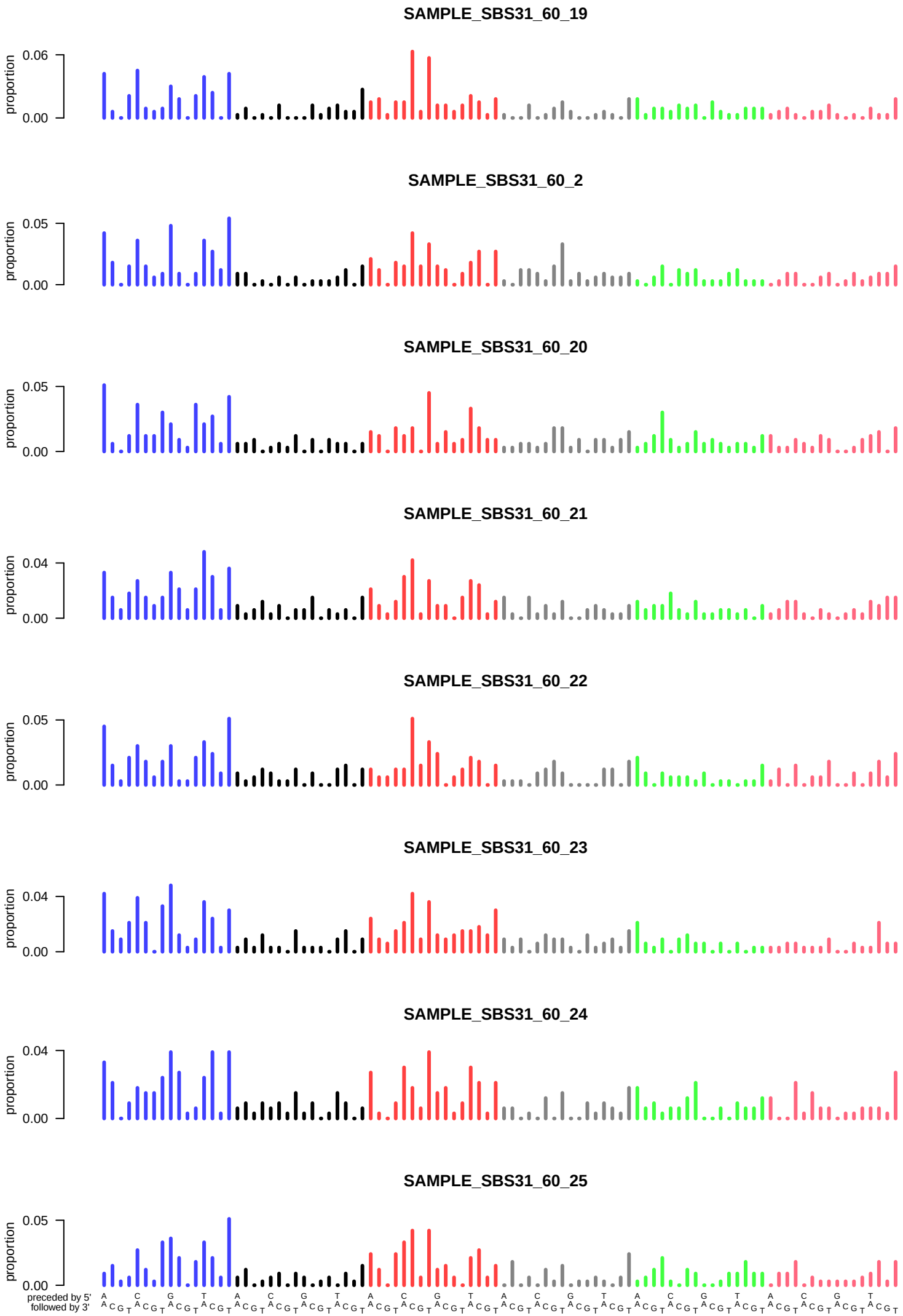
followed by 3'
A C G T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SAMPLE_SBS31_60_24
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SAMPLE_SBS31_60_25
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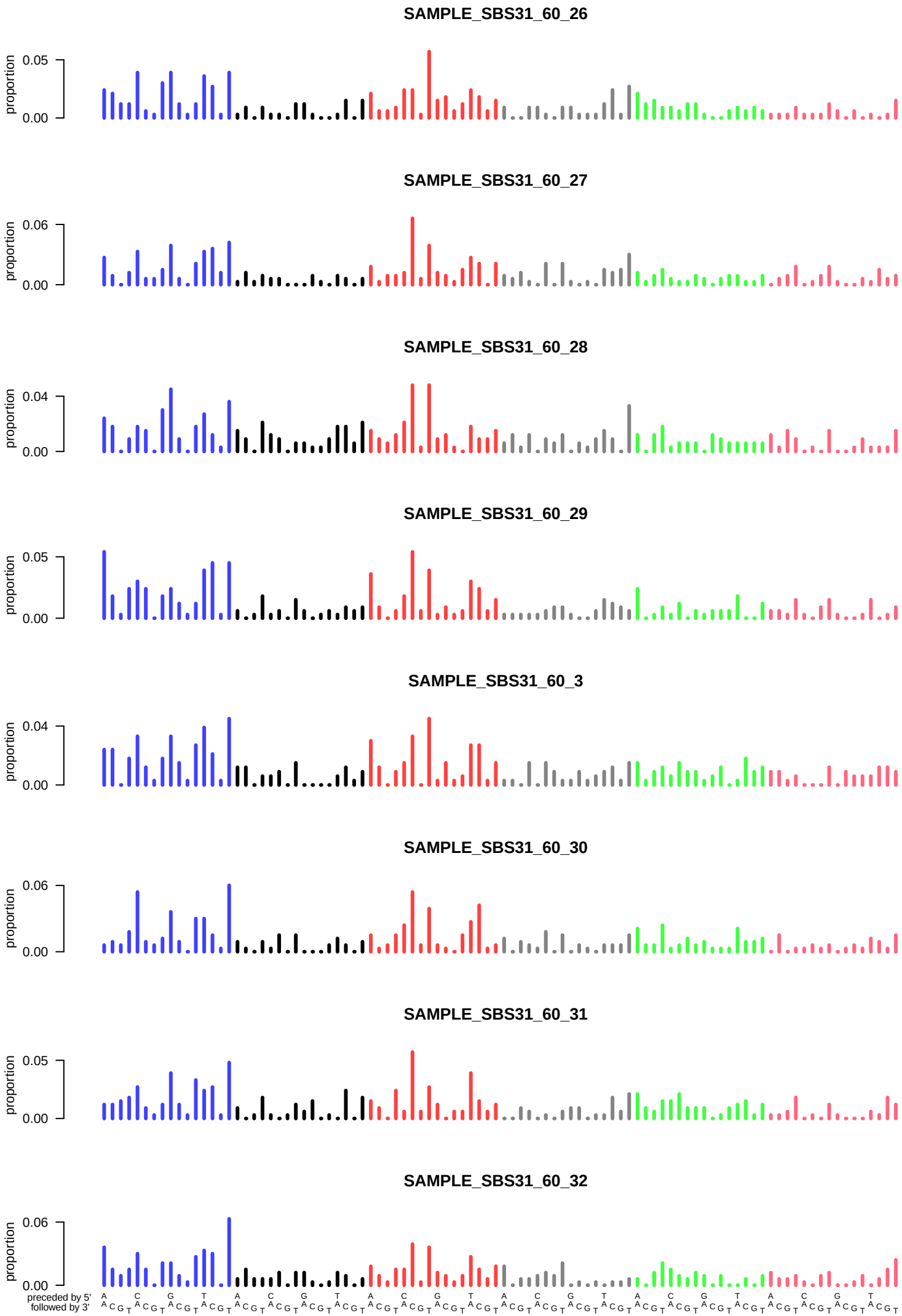
preceded by 5'
followed by 3'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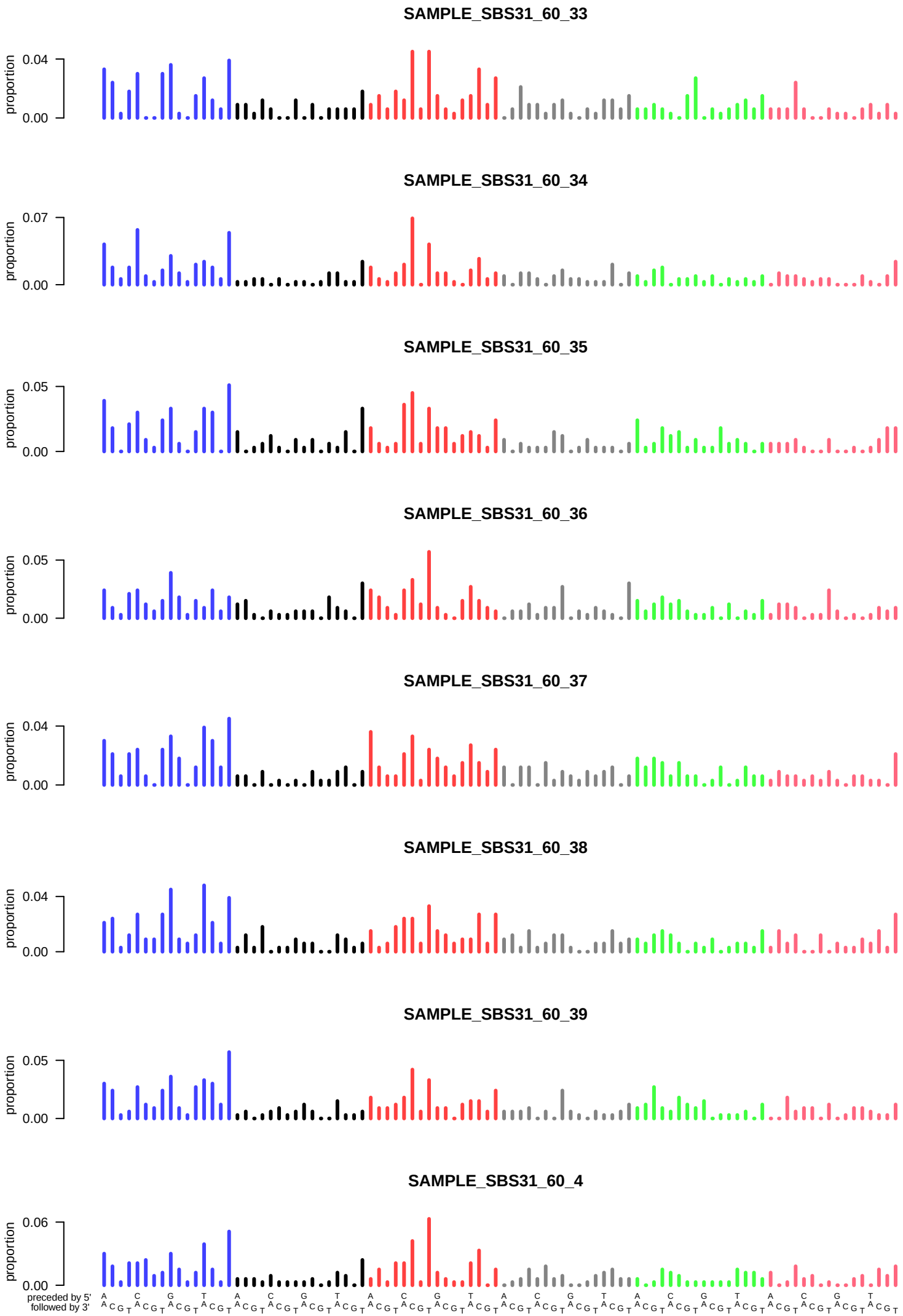
followed by 3'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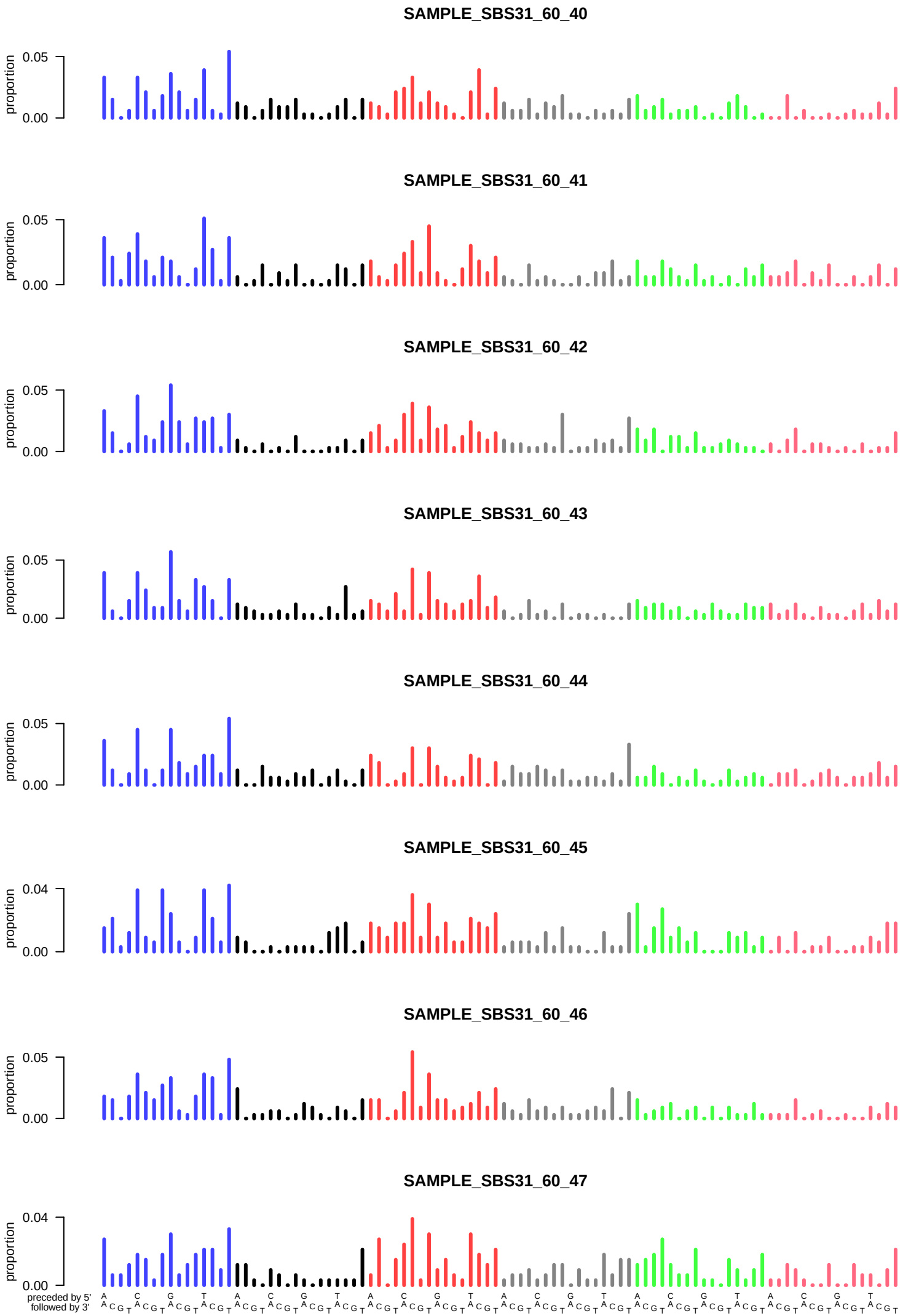
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SAMPLE_SBS31_60_45
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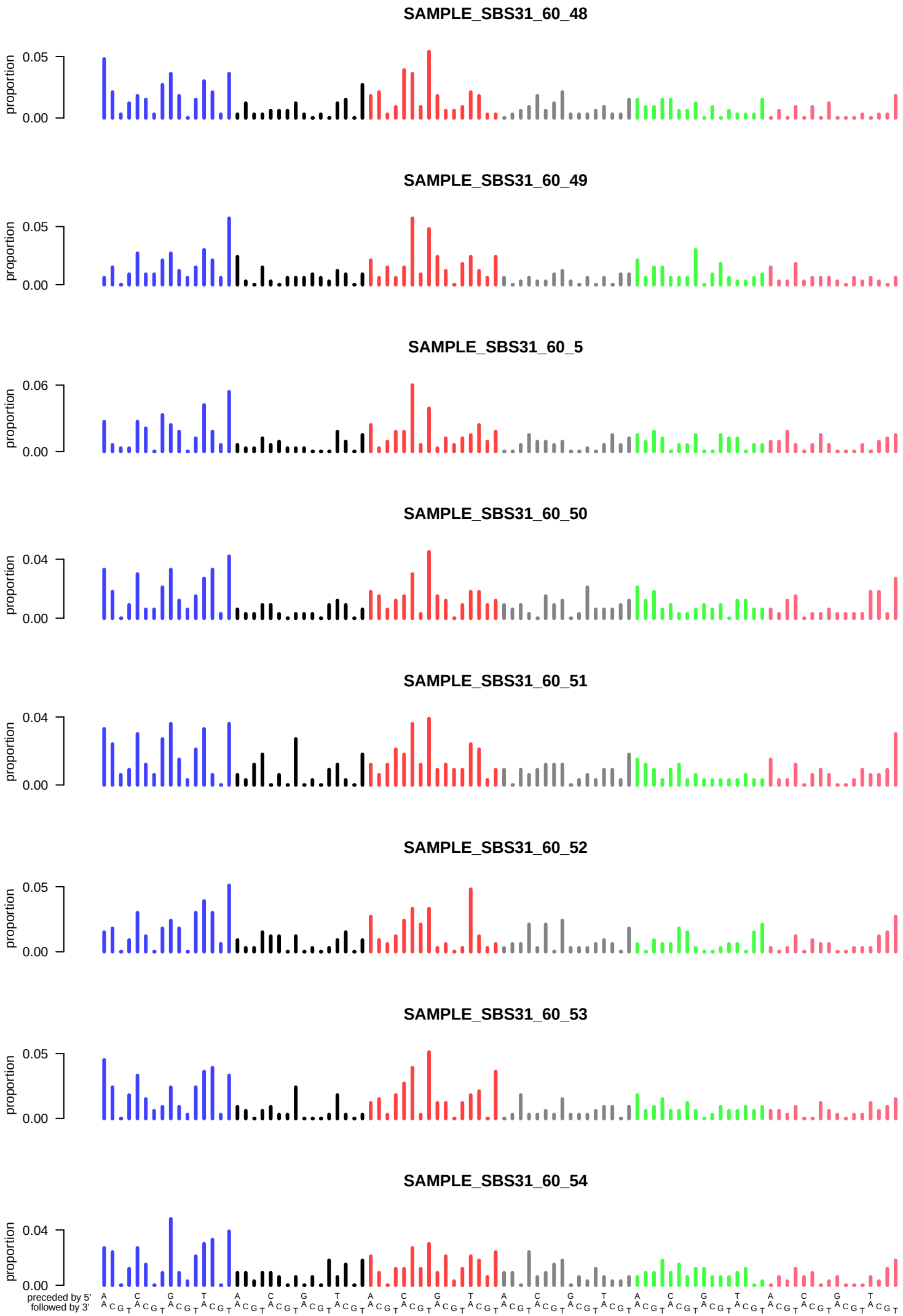
followed by 3'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SAMPLE_SBS31_60_51
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SAMPLE_SBS31_60_53
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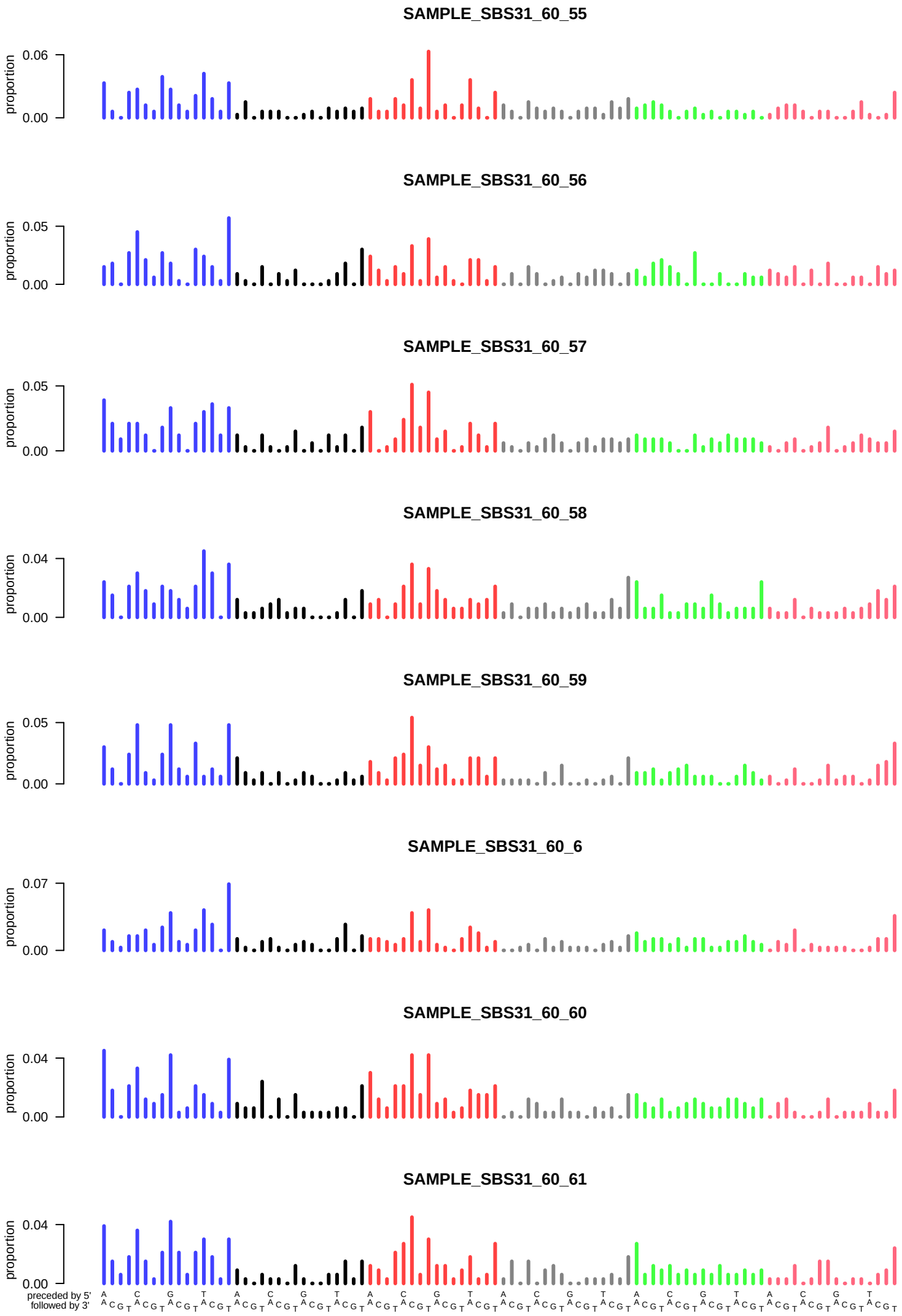
followed by 3'
A C G T A C G T A C G T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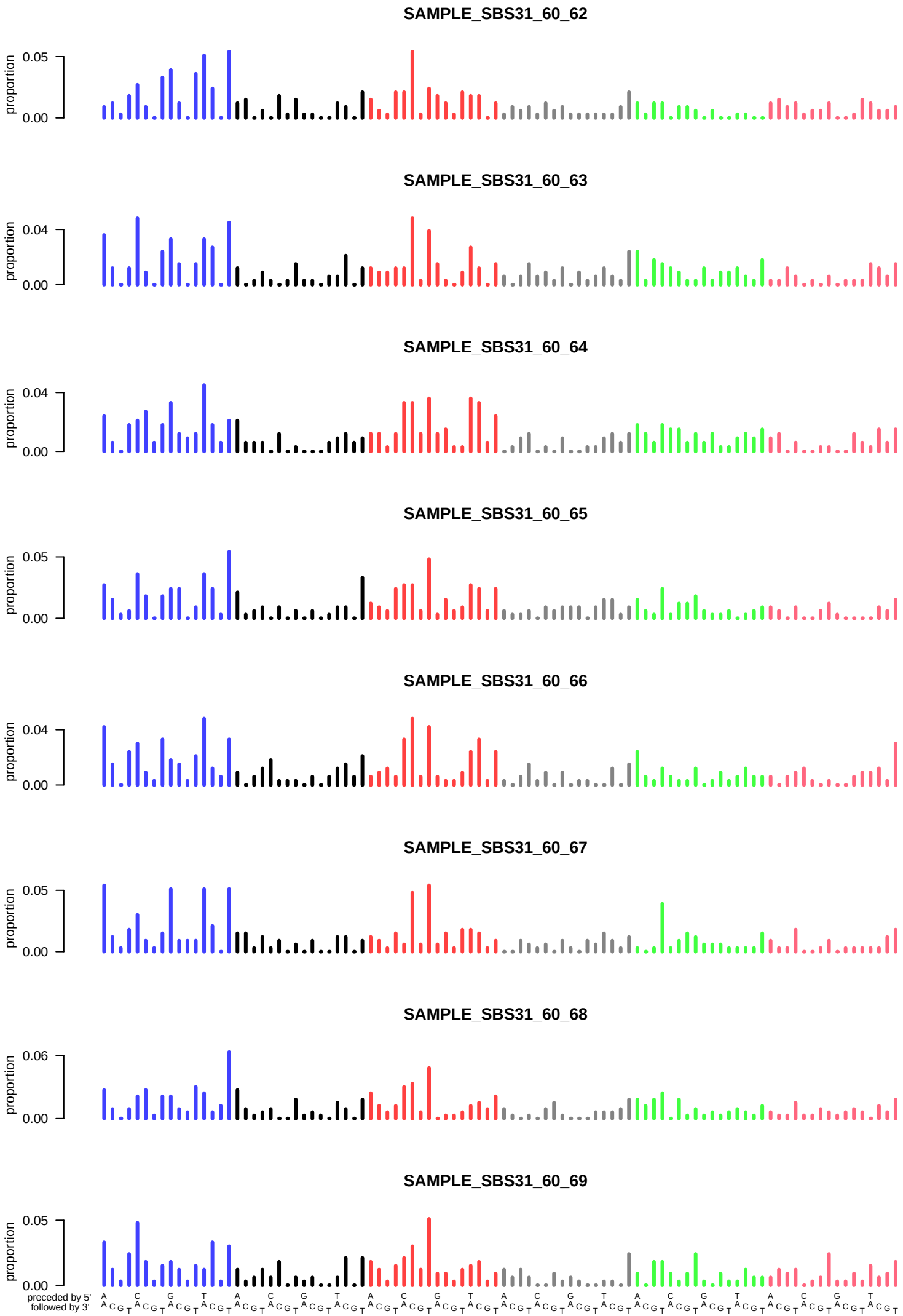
followed by 3'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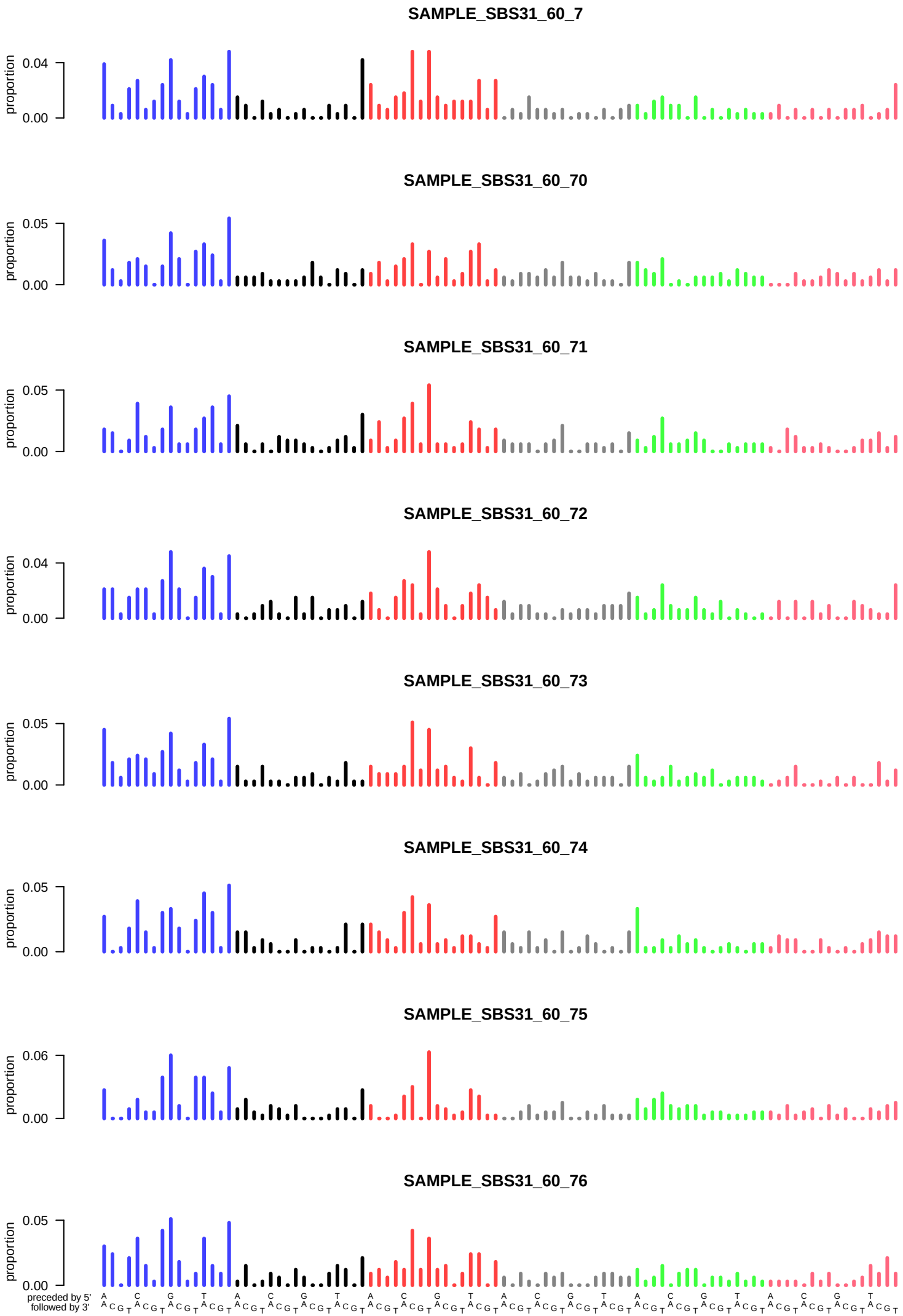
followed by 3'
A C G T A C G T A C G T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proportion
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followed by 3'
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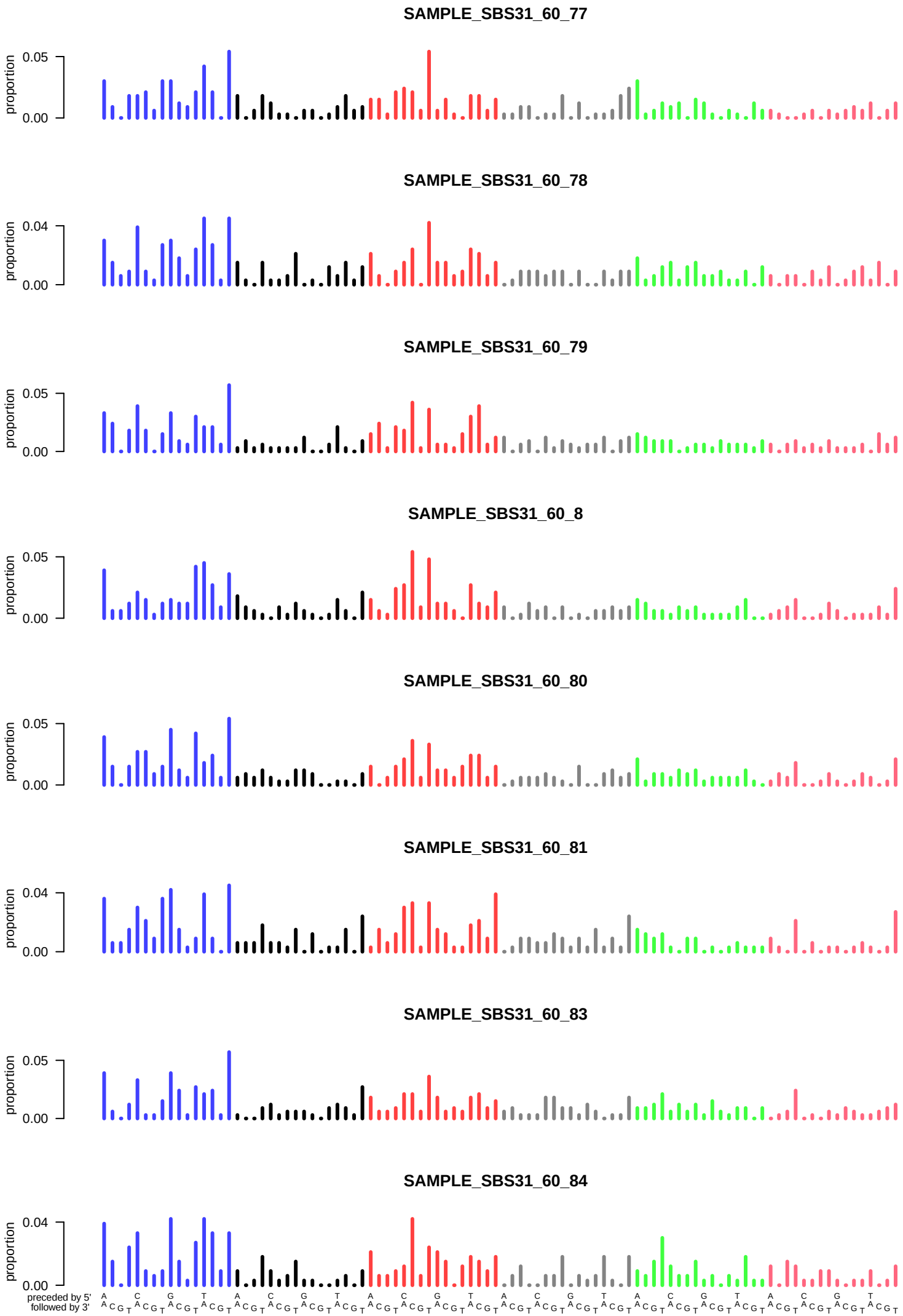
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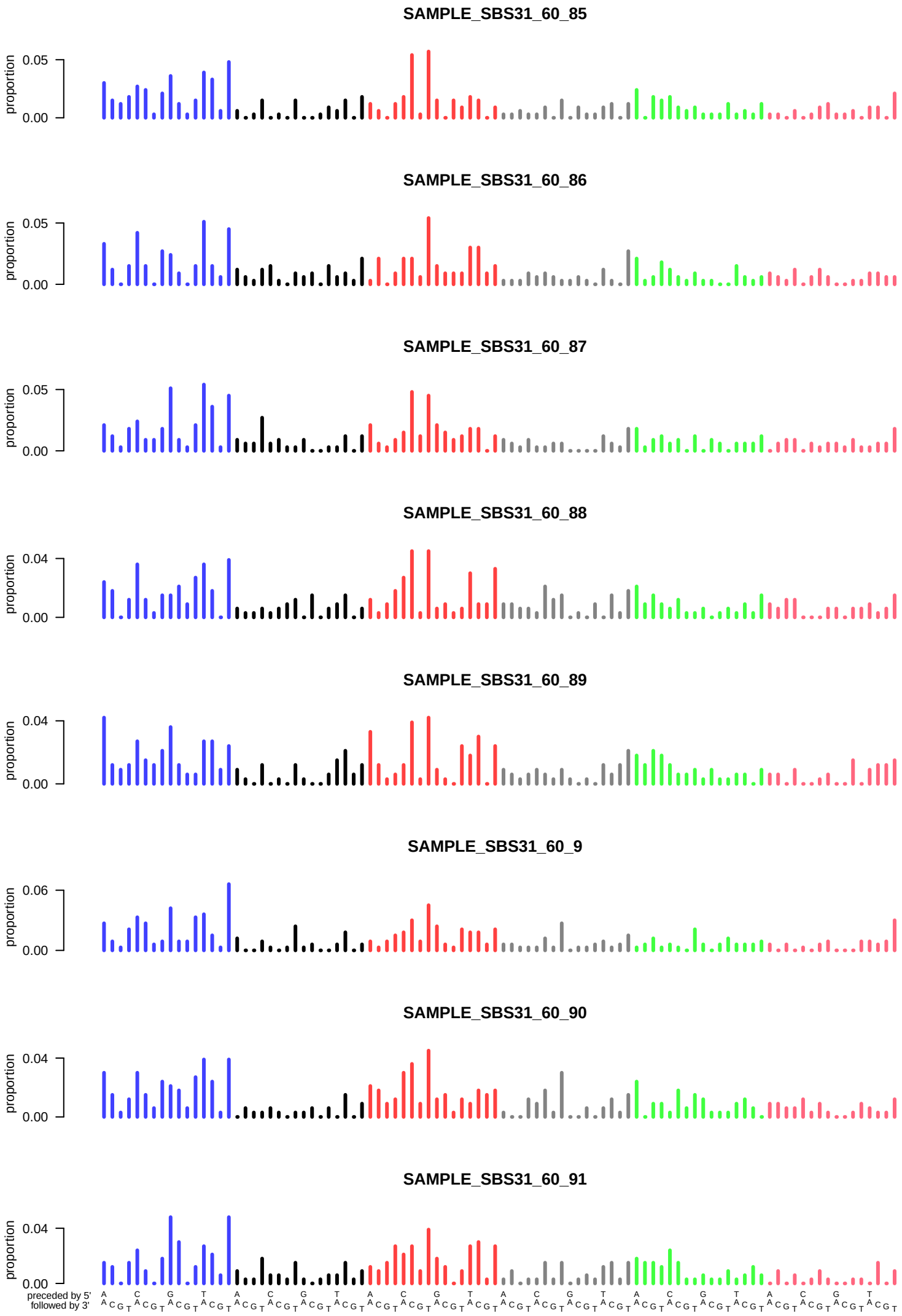
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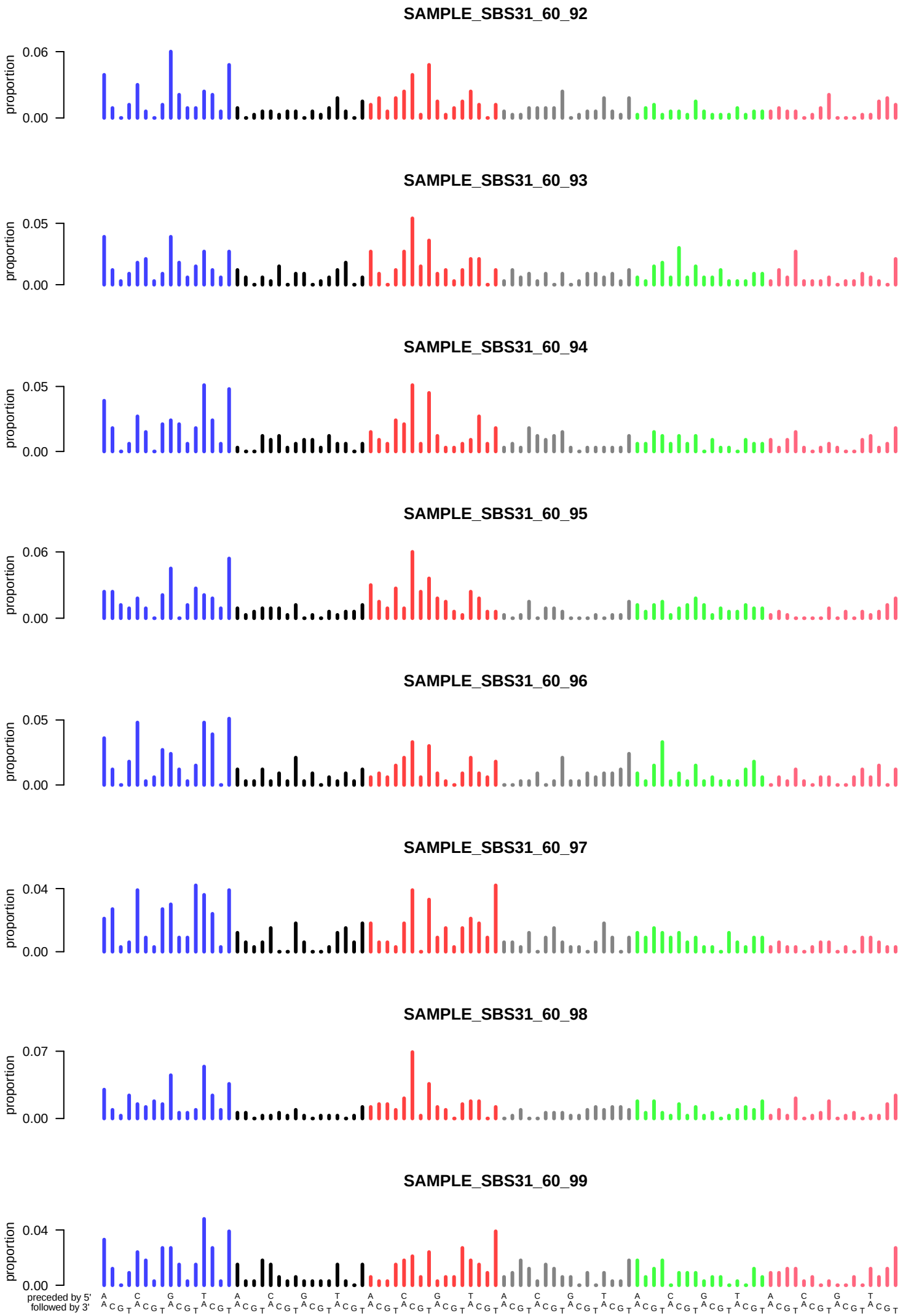
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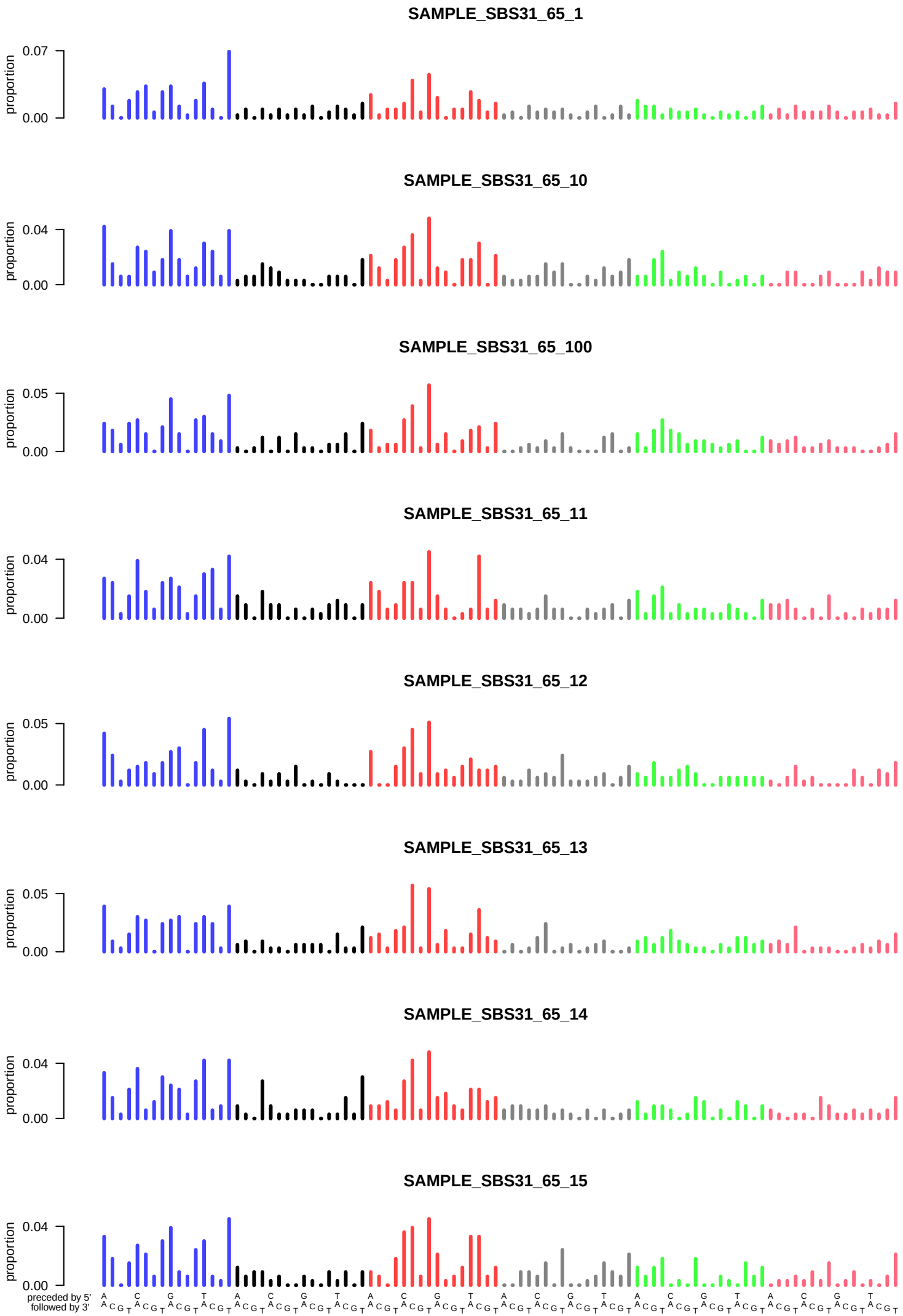
A C G T A C G T A C G T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followed by 3'
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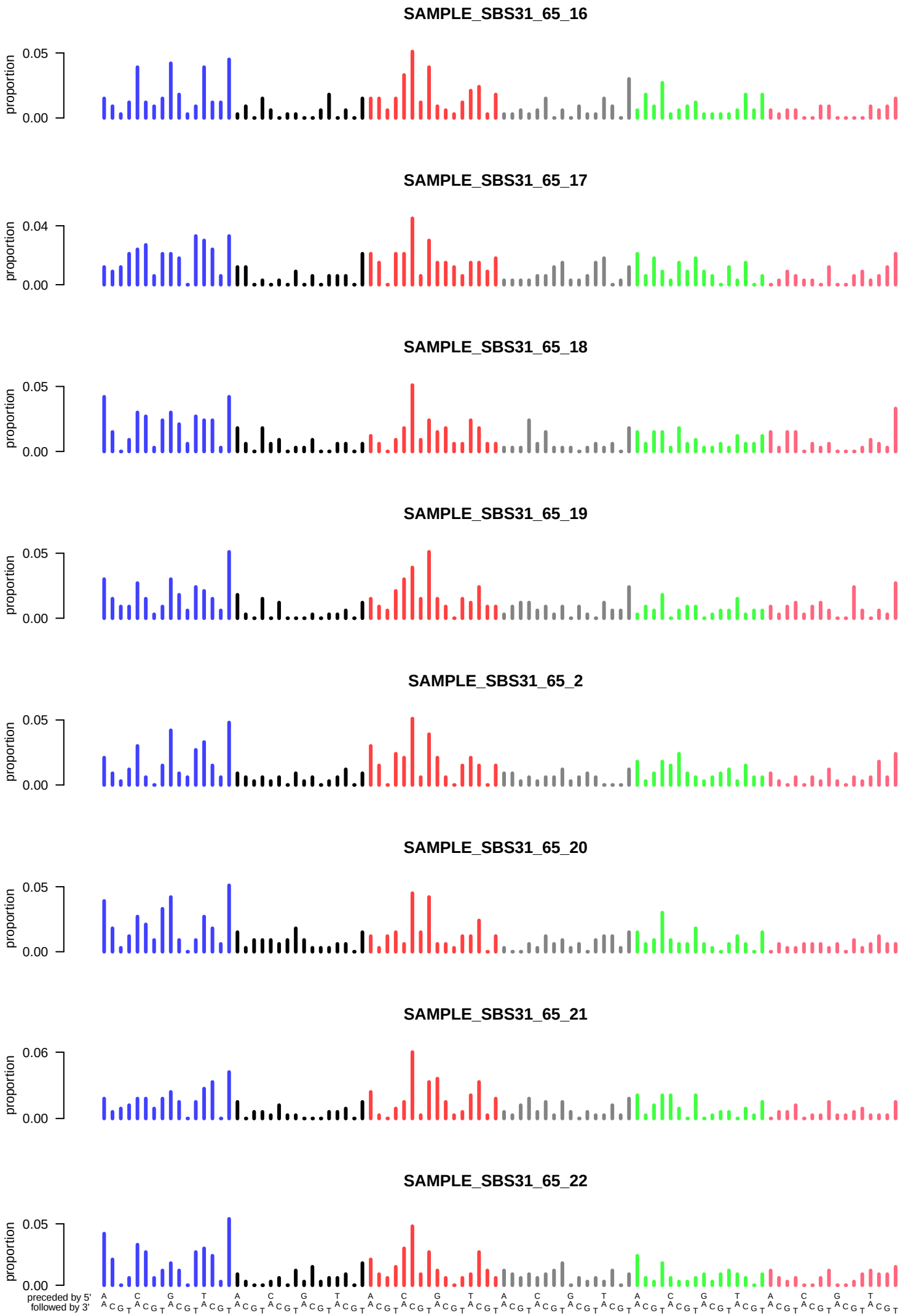
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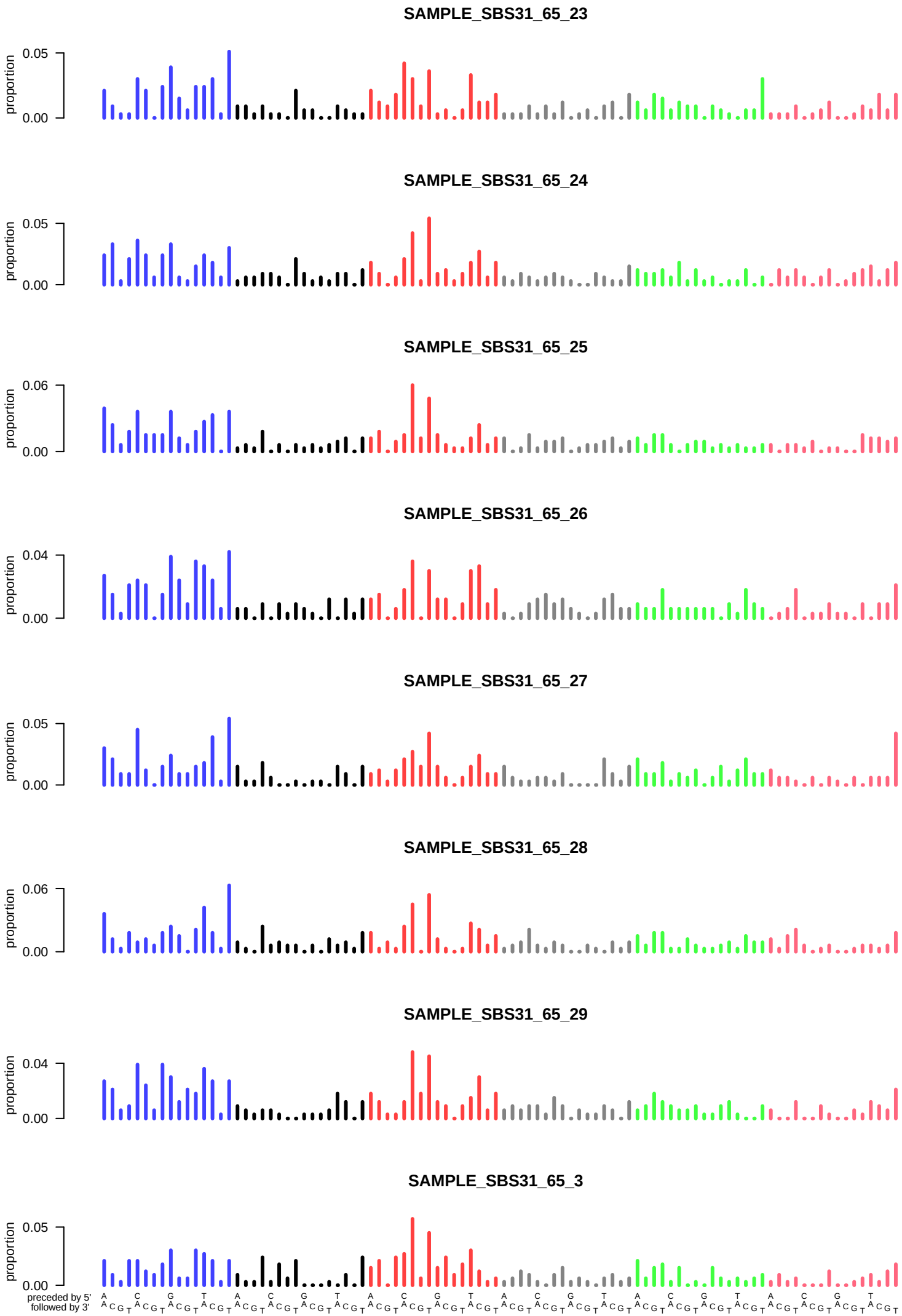
followed by 3'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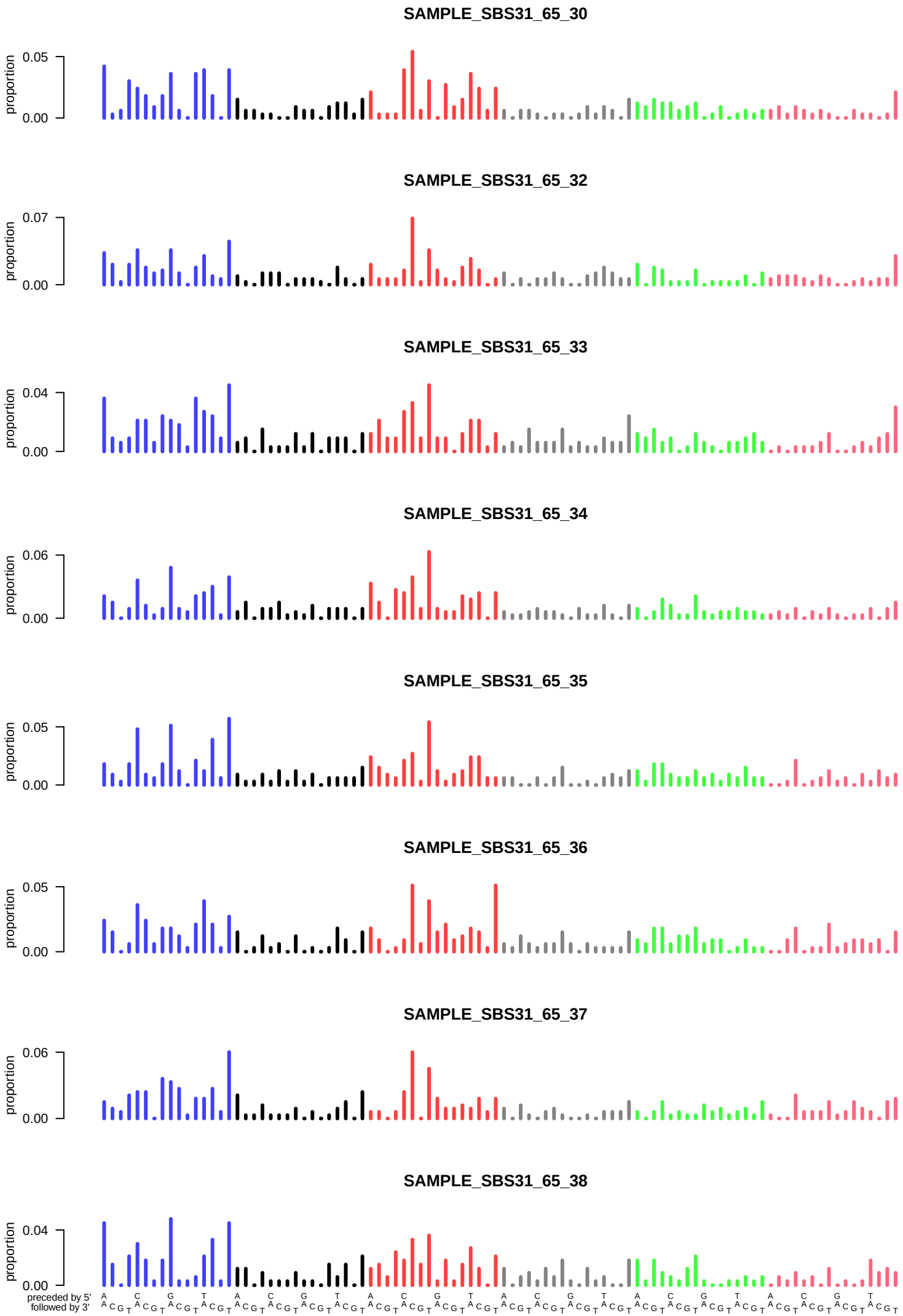
A C G T A C G T A C G T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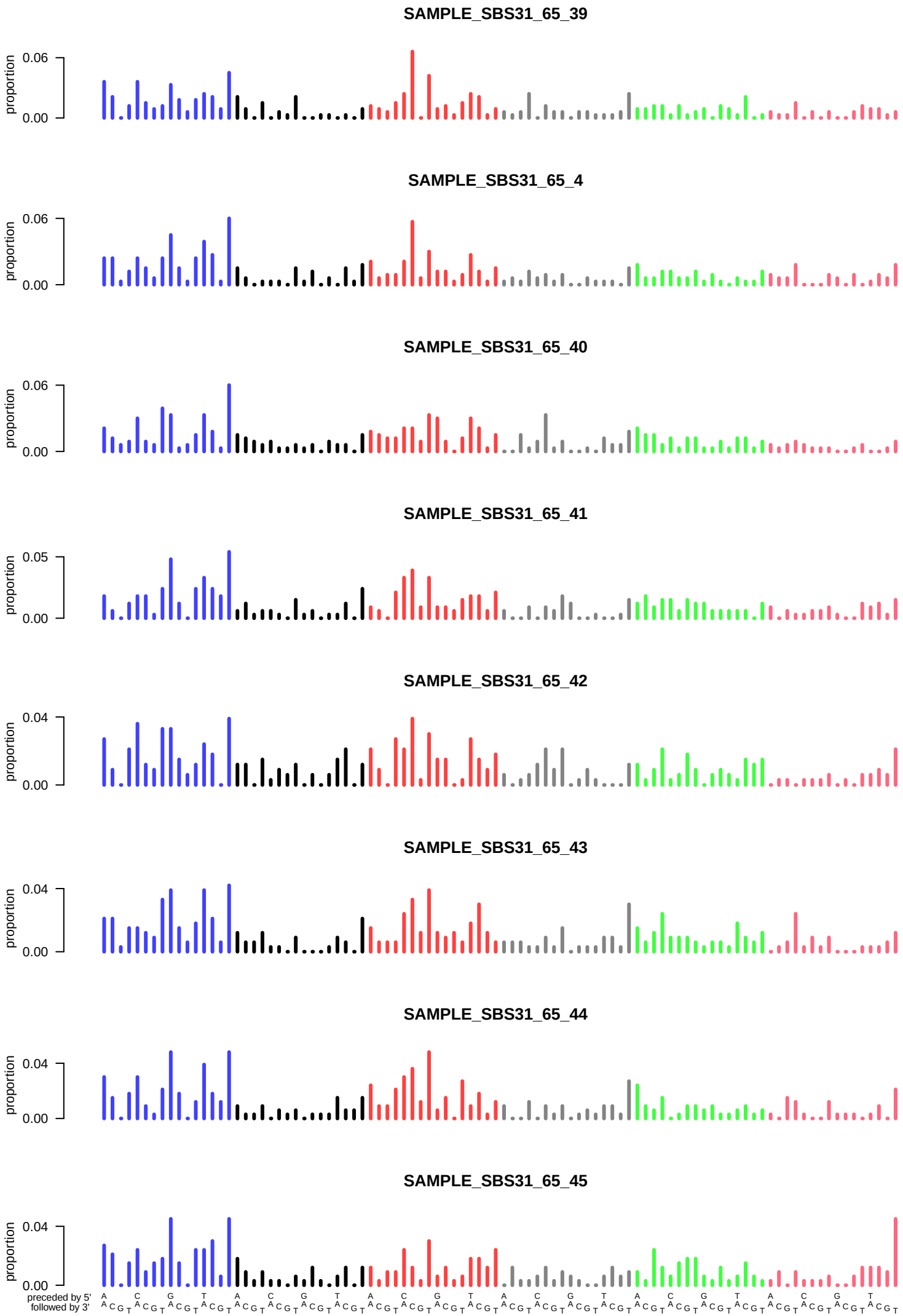
followed by 3'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proportion
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SAMPLE_SBS31_65_44
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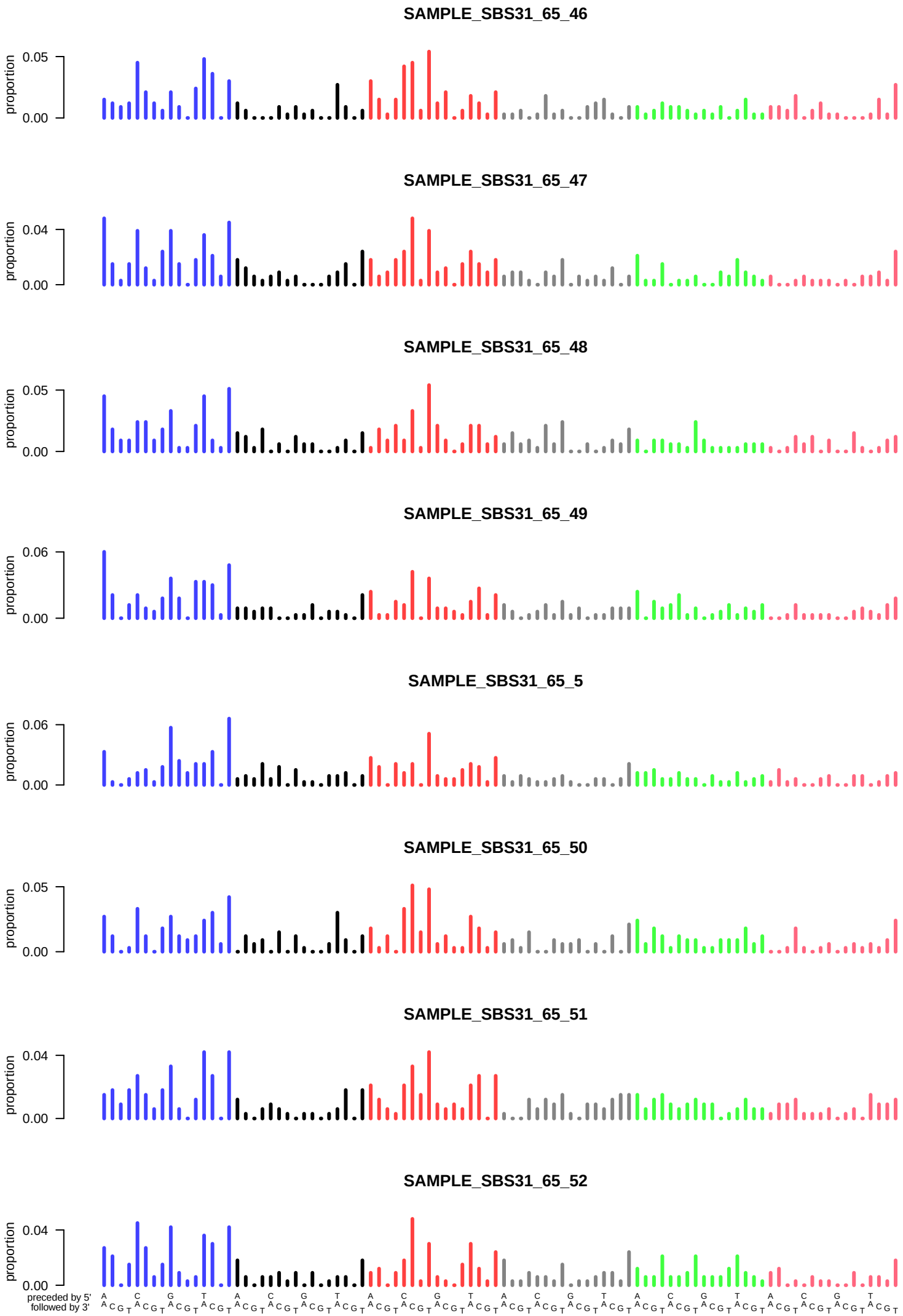
preceded by 5'
followed by 3'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SAMPLE_SBS31_65_49
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SAMPLE_SBS31_65_5
proportion
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SAMPLE_SBS31_65_50
proportion
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0.00
SAMPLE_SBS31_65_51
proportion
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SAMPLE_SBS31_65_52
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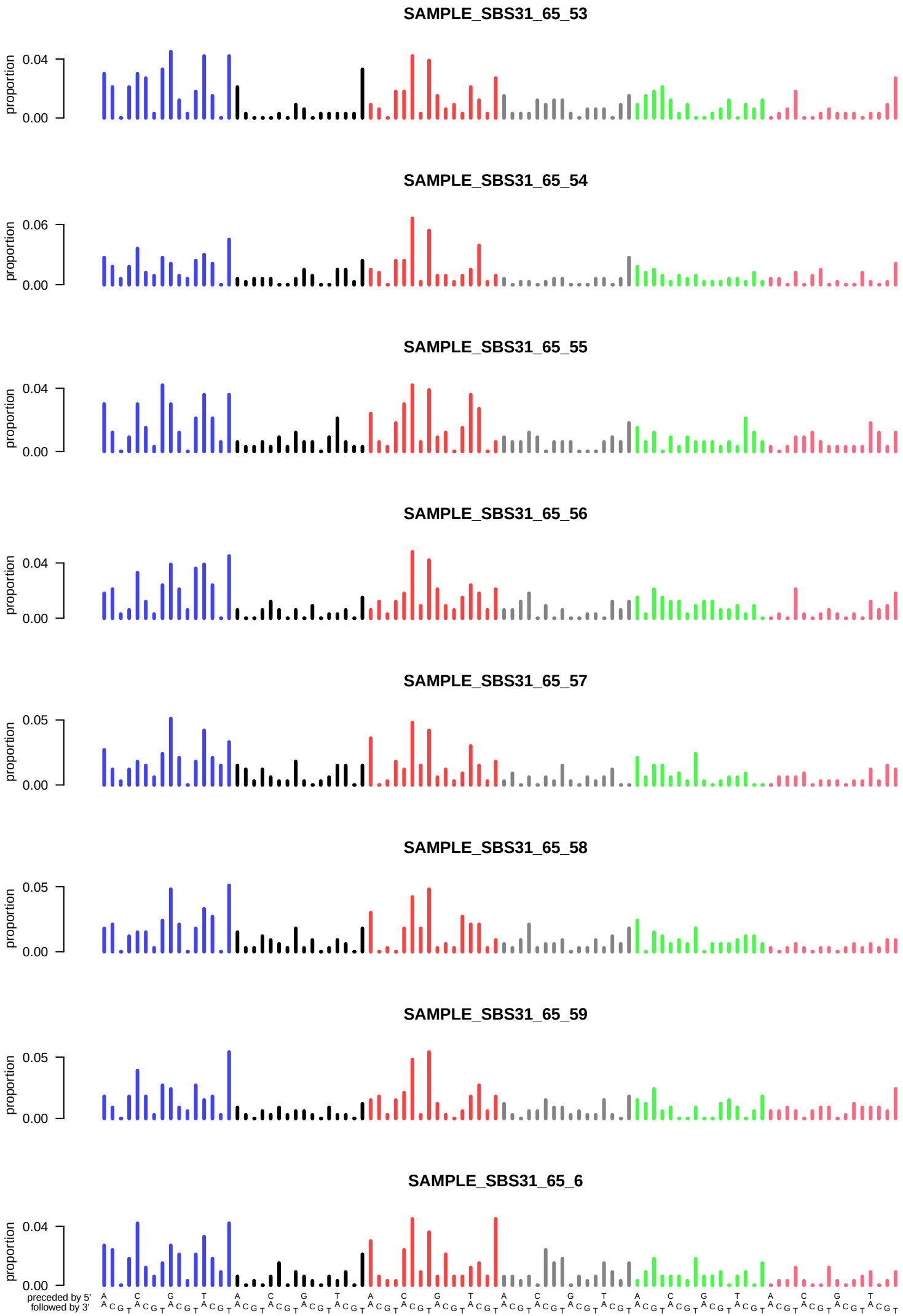
0.00
preceded by 5'
followed by 3'
A C G T A C G T A C G T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proportion
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SAMPLE_SBS31_65_58
proportion
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SAMPLE_SBS31_65_59
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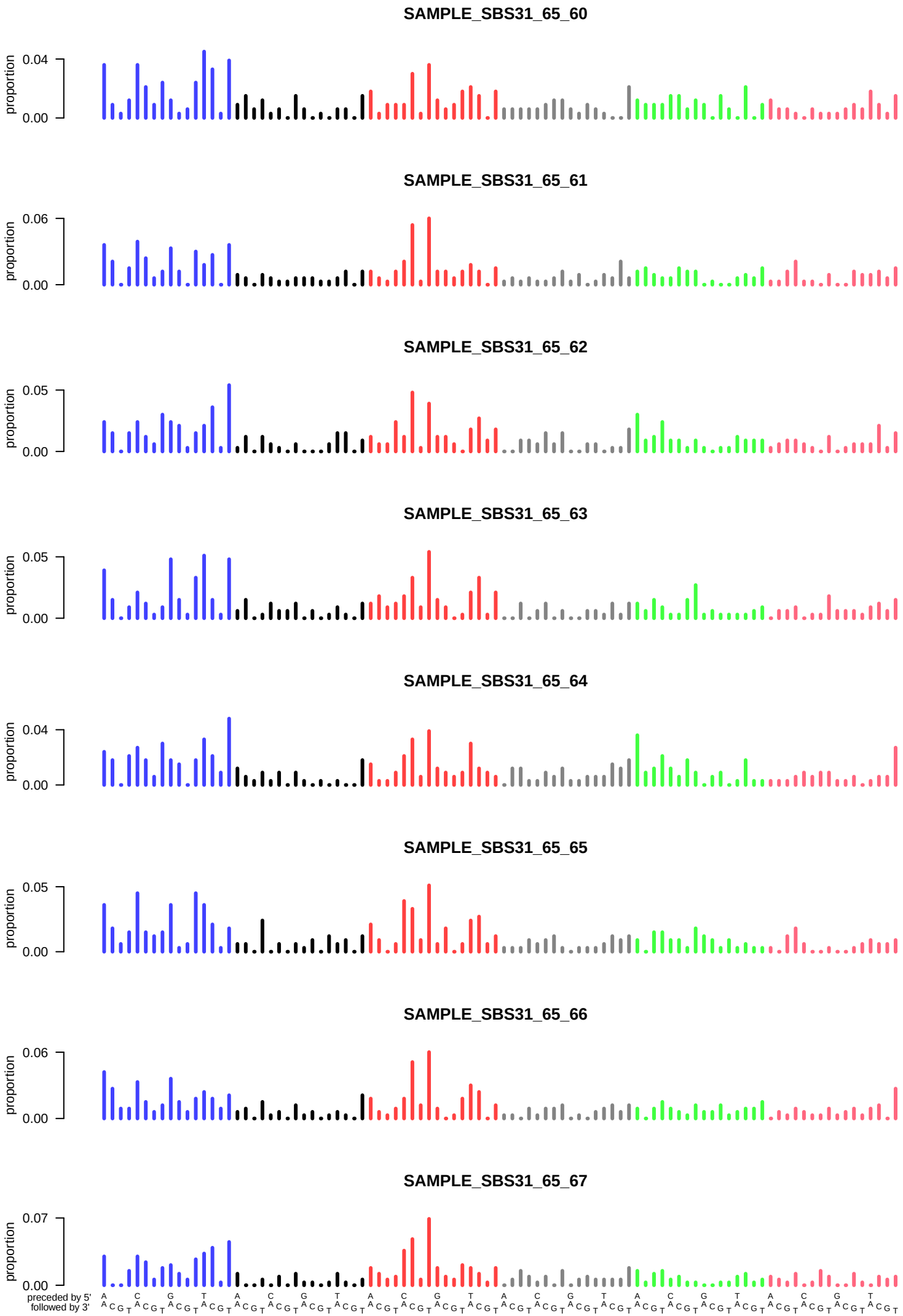
followed by 3'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SAMPLE_SBS31_65_63
proportion
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SAMPLE_SBS31_65_64
proportion
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SAMPLE_SBS31_65_65
proportion
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SAMPLE_SBS31_65_66
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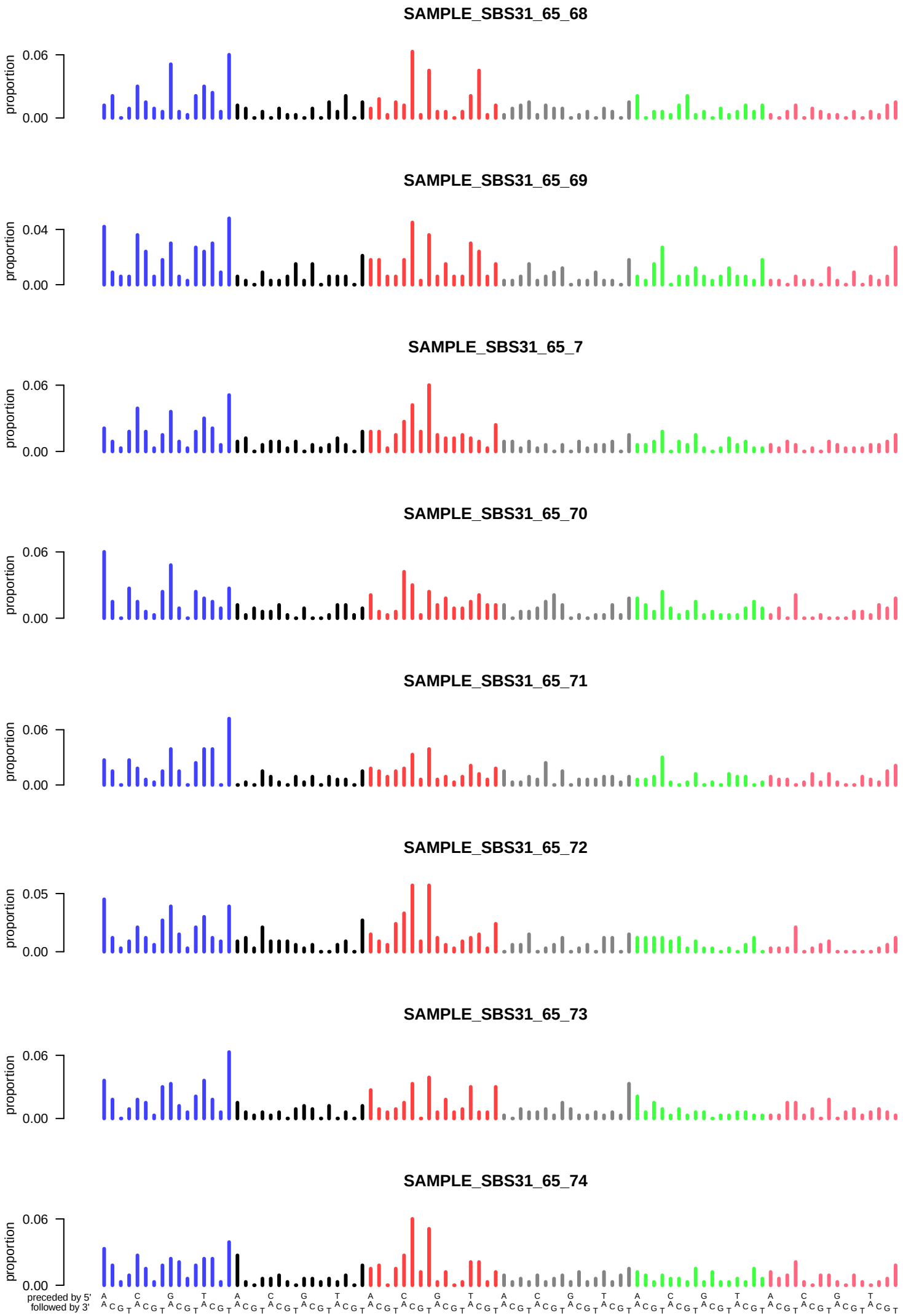
preceded by 5'
followed by 3'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SAMPLE_SBS31_65_70
proportion
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SAMPLE_SBS31_65_71
proportion
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SAMPLE_SBS31_65_72
proportion
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SAMPLE_SBS31_65_73
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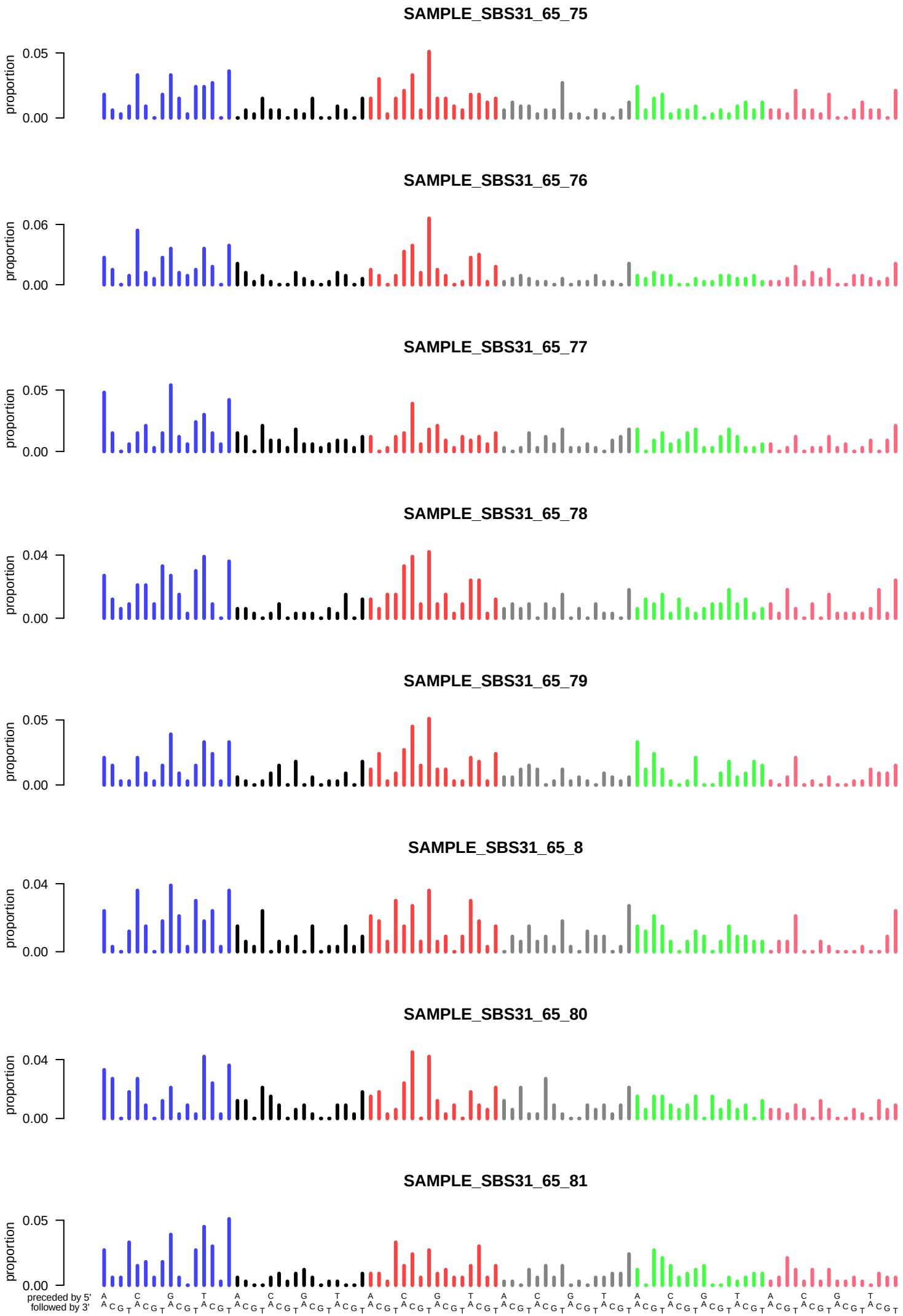
preceded by 5'
followed by 3'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SAMPLE_SBS31_65_79
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proportion
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SAMPLE_SBS31_65_80
proportion
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proportion
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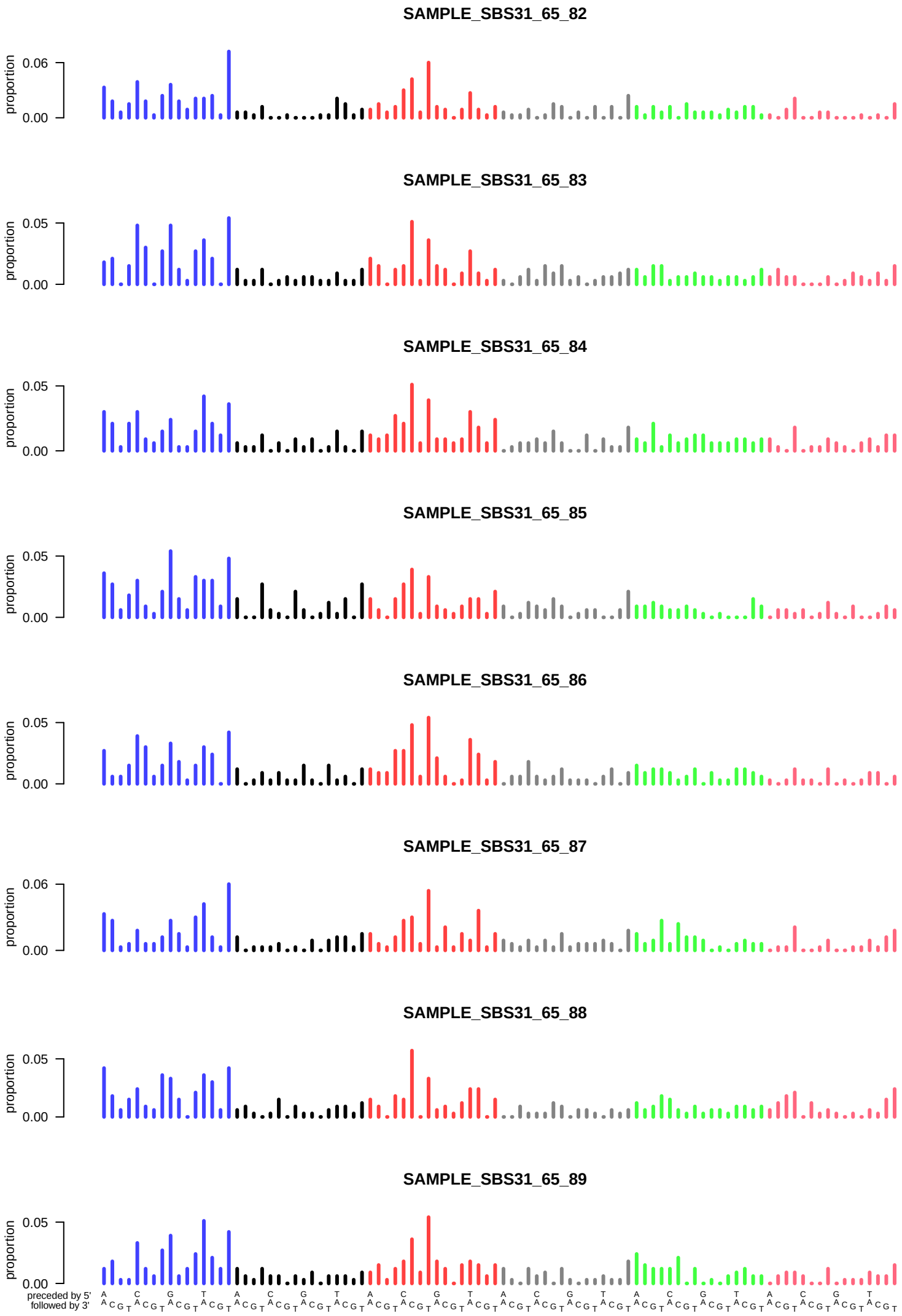
preceded by 5'
followed by 3'
A C G T A C G T A C G T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SAMPLE_SBS31_65_86
SAMPLE_SBS31_65_87
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SAMPLE_SBS31_65_89
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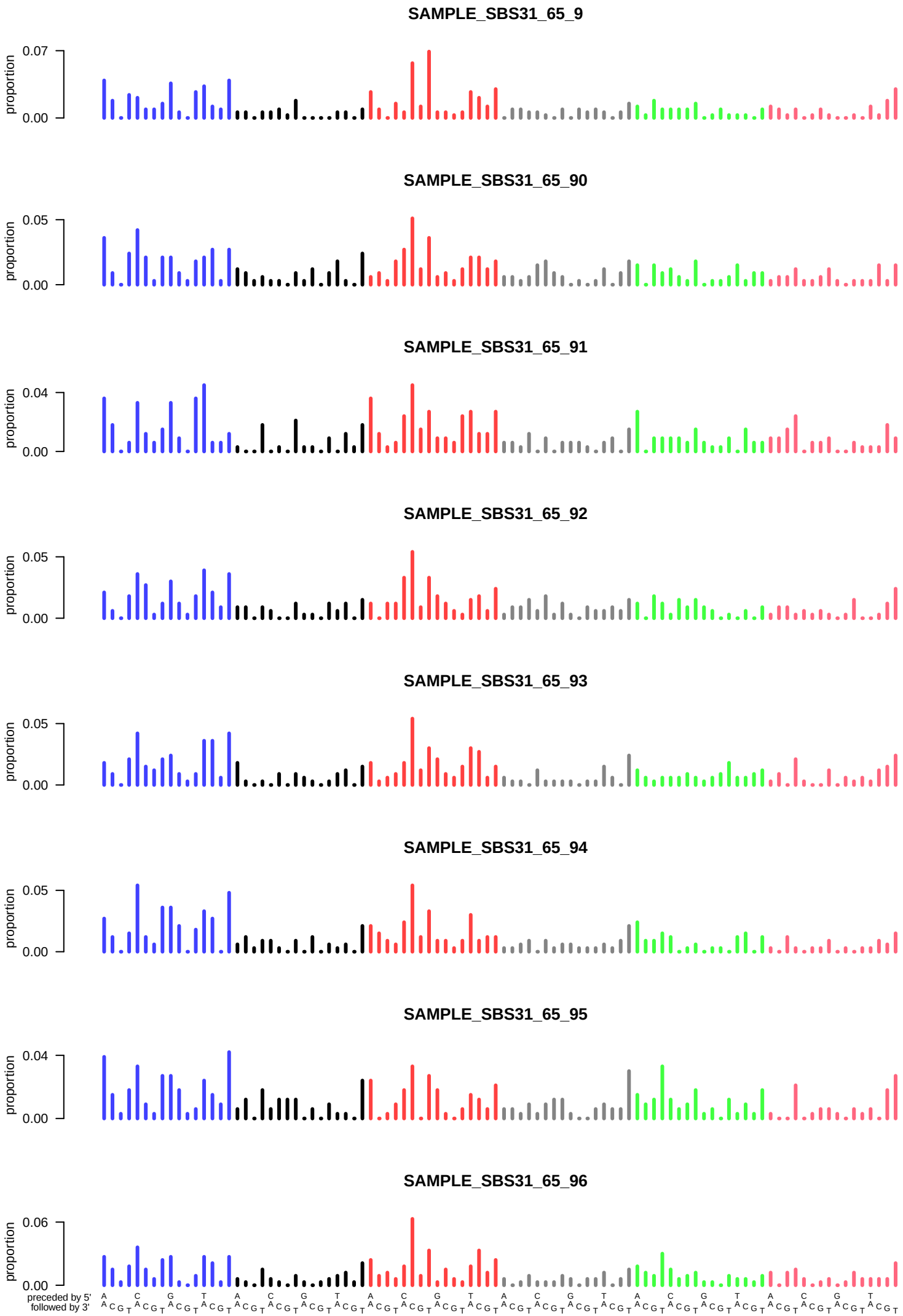
preceded by 5'
followed by 3'
A C G T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proportion
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SAMPLE_SBS31_65_95
proportion
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followed by 3'
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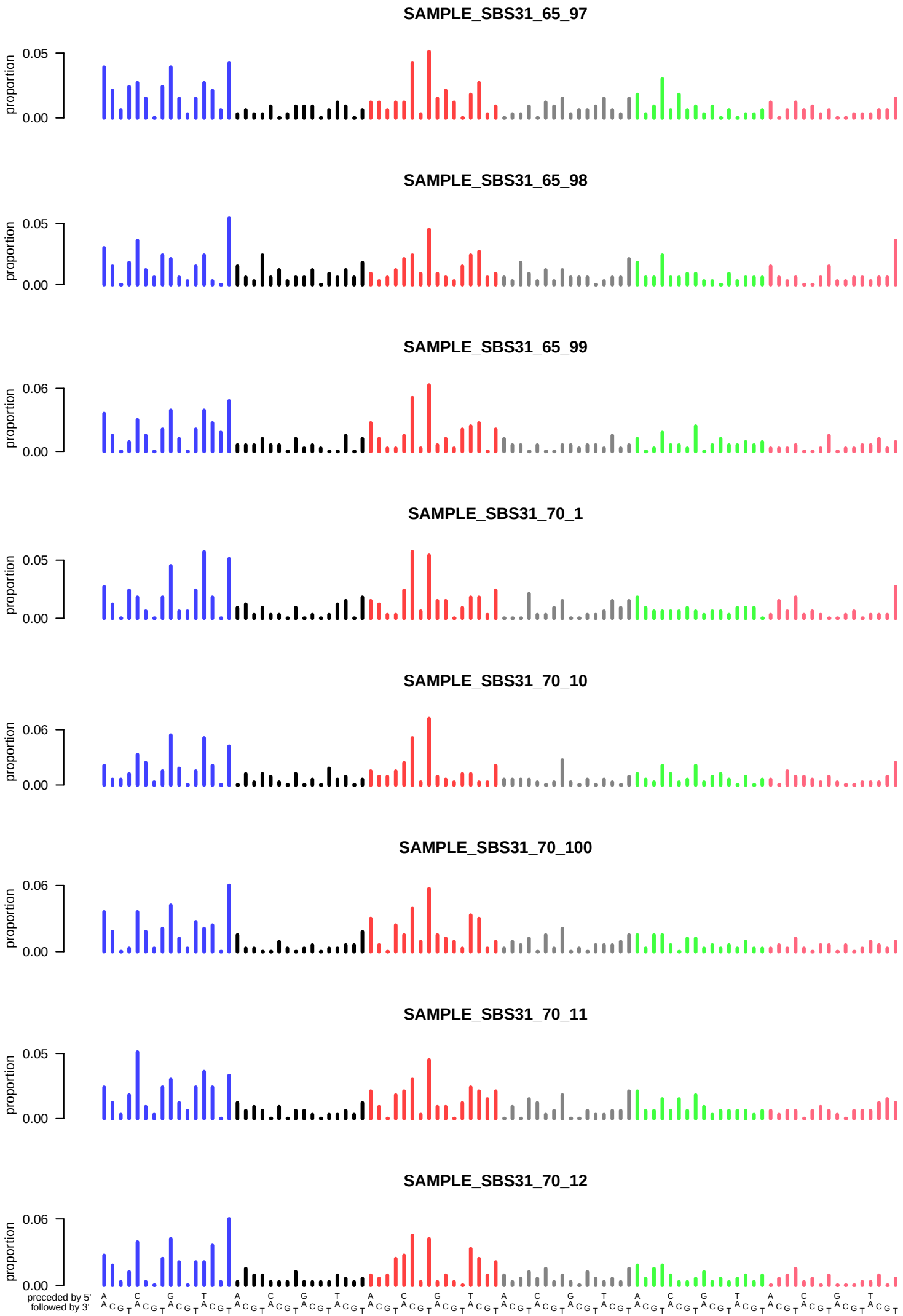
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SAMPLE_SBS31_70_1
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SAMPLE_SBS31_70_10
proportion
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SAMPLE_SBS31_70_100
proportion
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SAMPLE_SBS31_70_11
proportion
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followed by 3'
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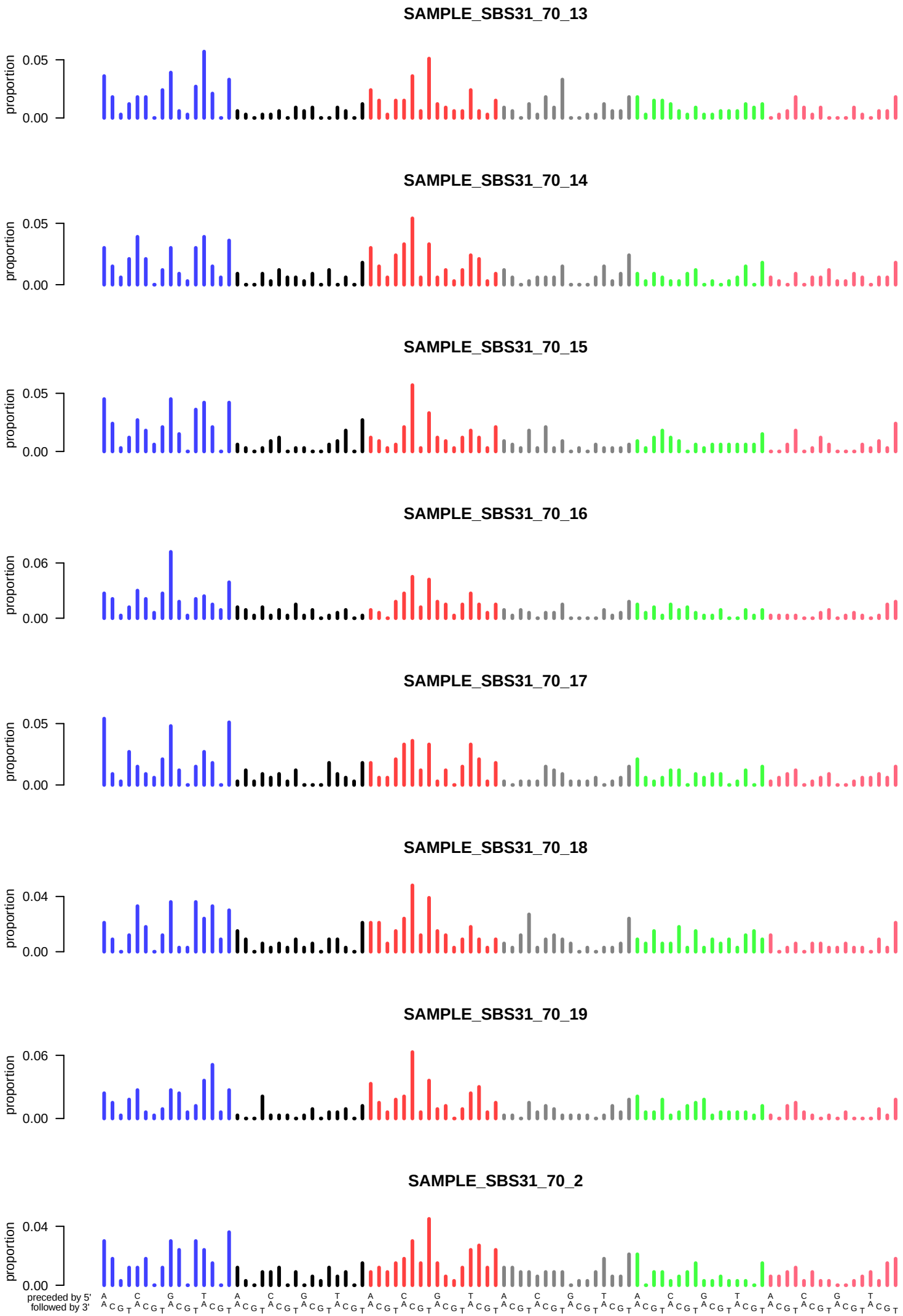
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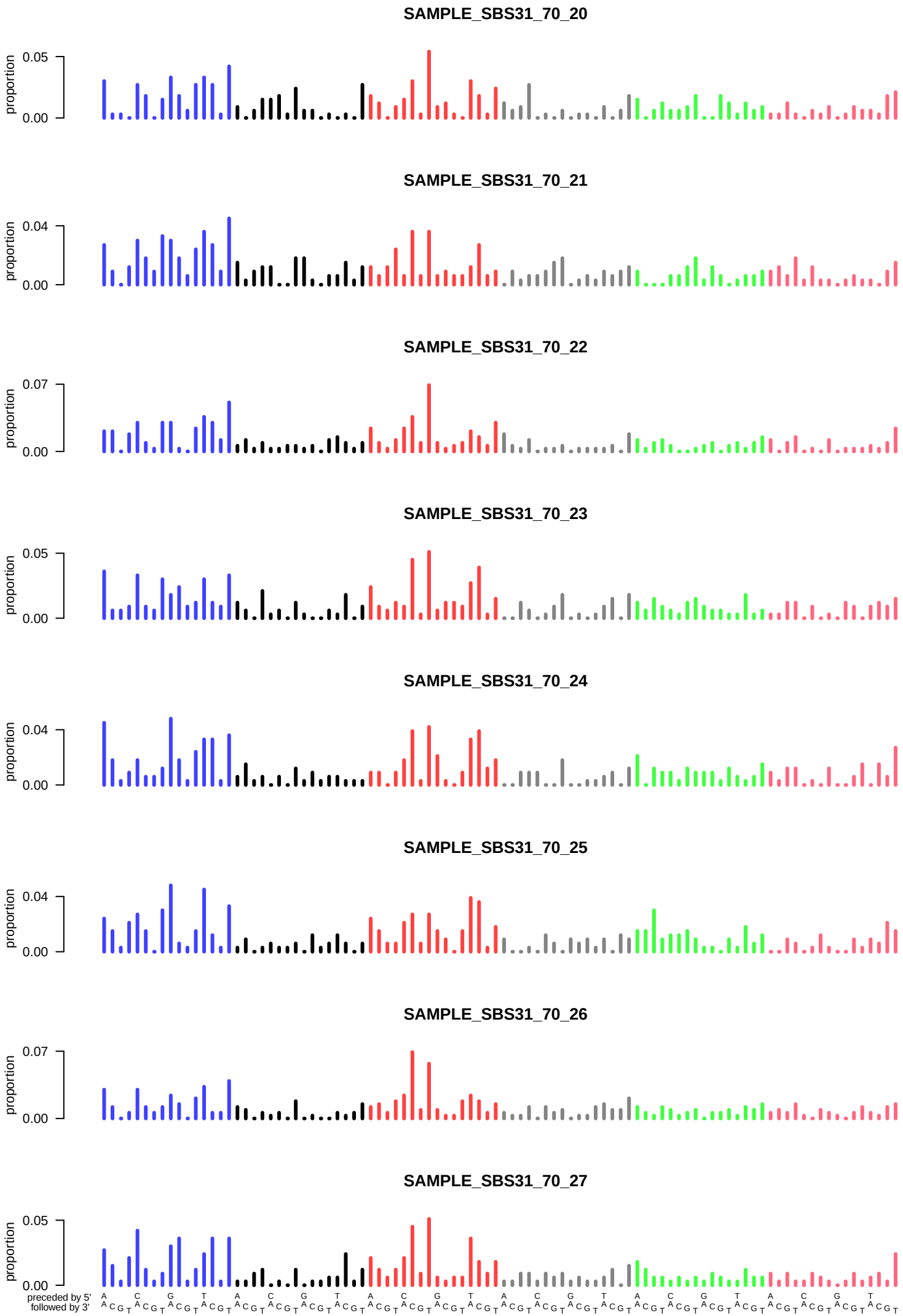
followed by 3'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SAMPLE_SBS31_70_25
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SAMPLE_SBS31_70_26
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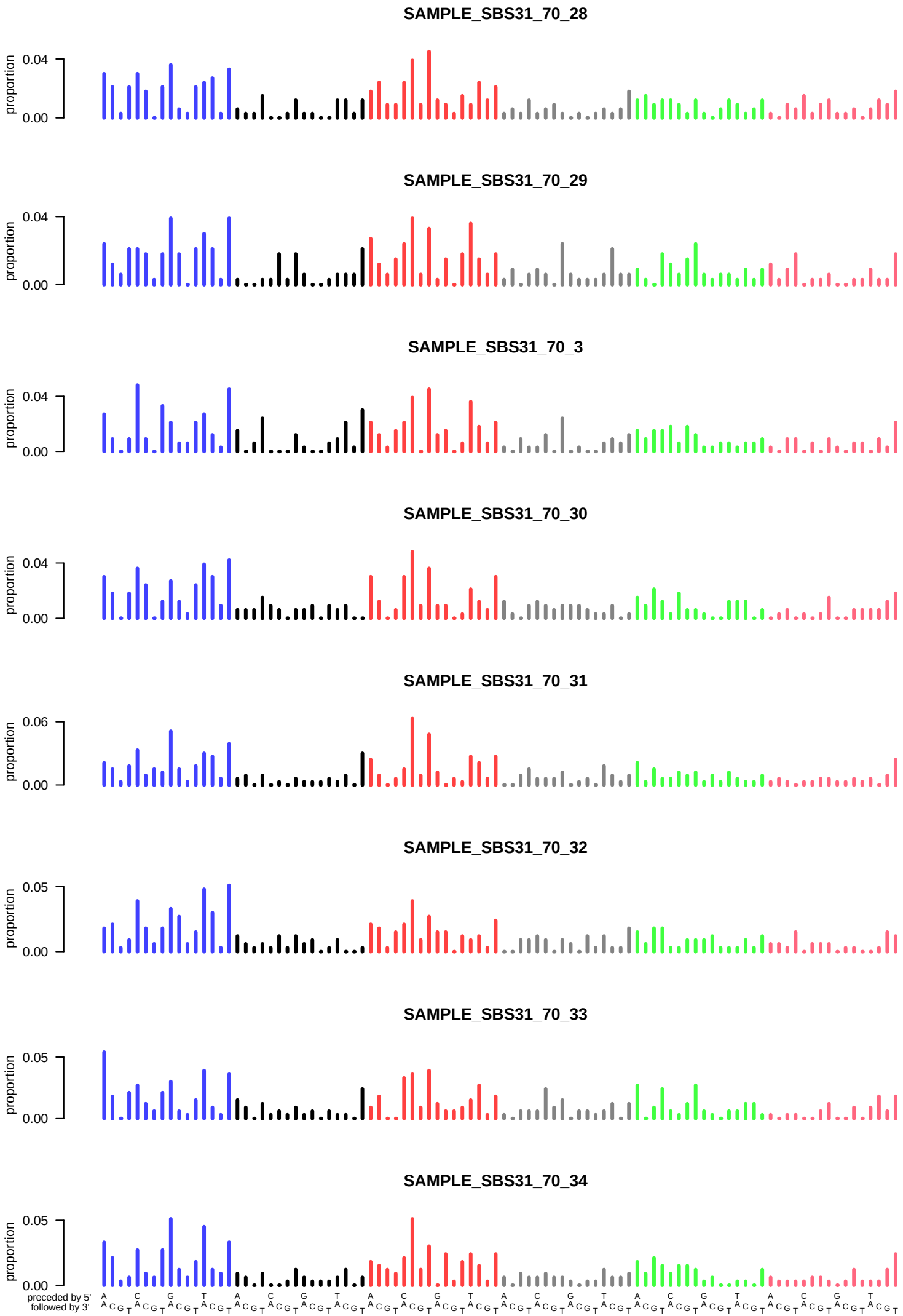
preceded by 5'
followed by 3'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SAMPLE_SBS31_70_33
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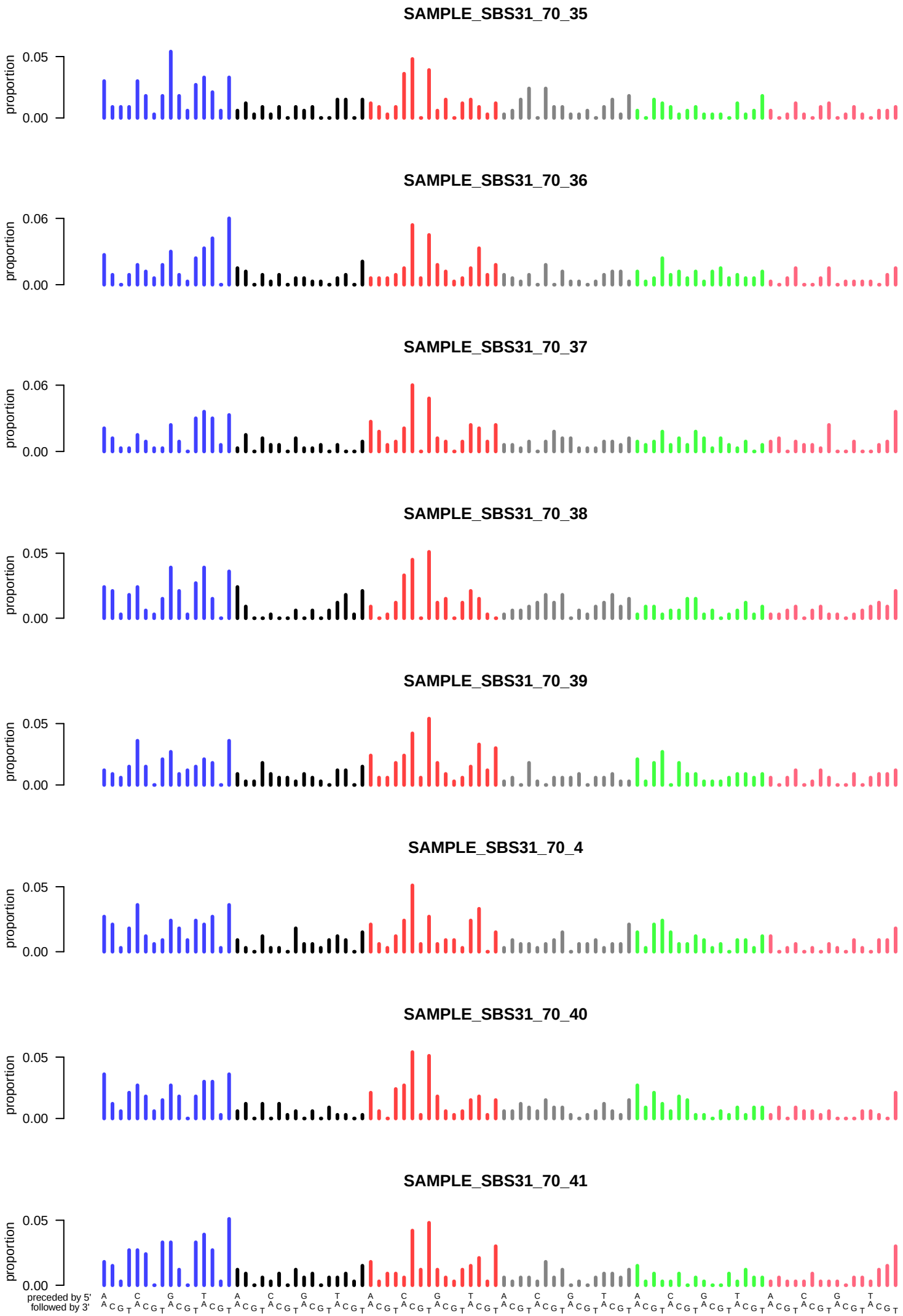
followed by 3'
A C G T A C G T A C G T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SAMPLE_SBS31_70_4
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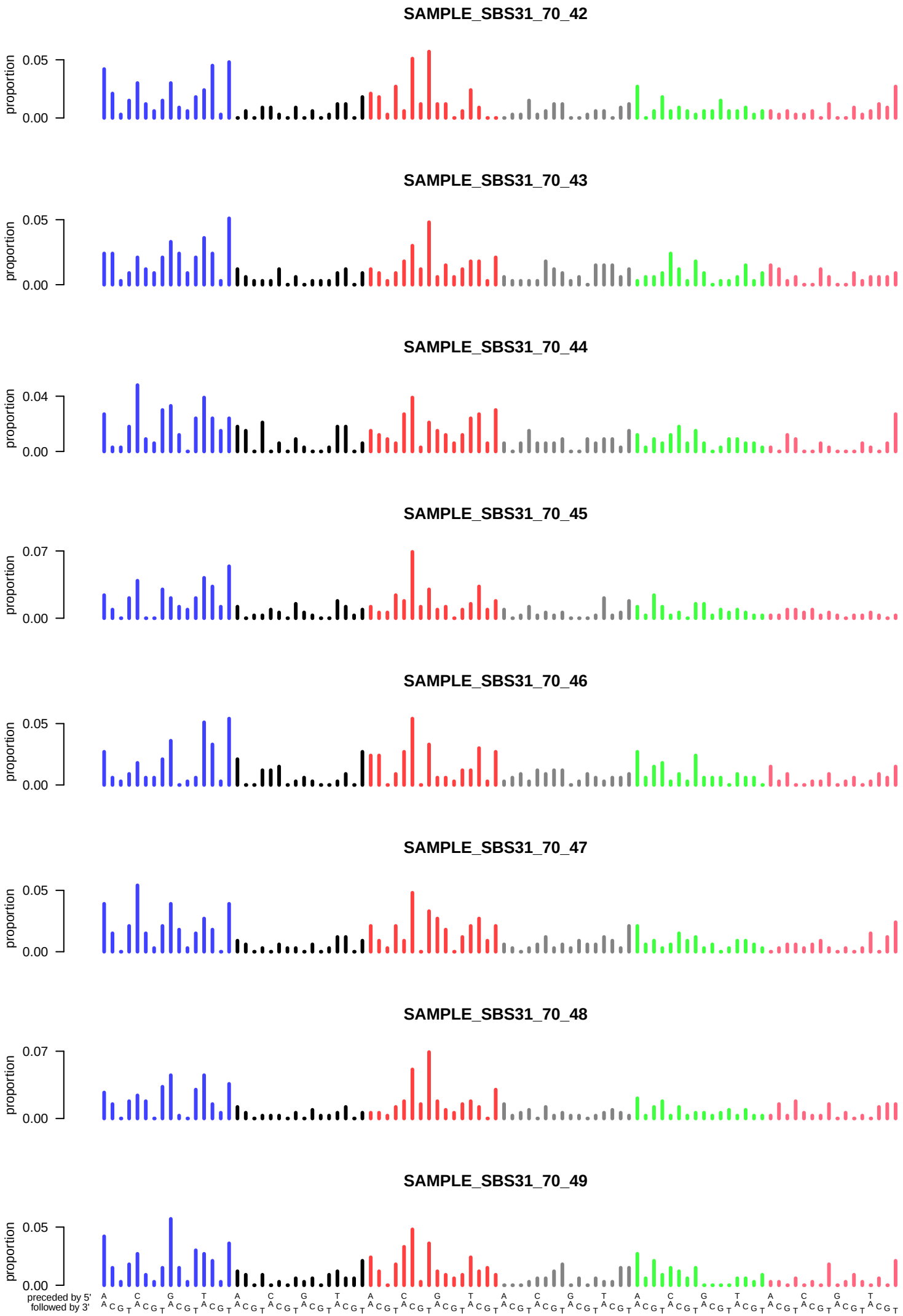
preceded by 5'
followed by 3'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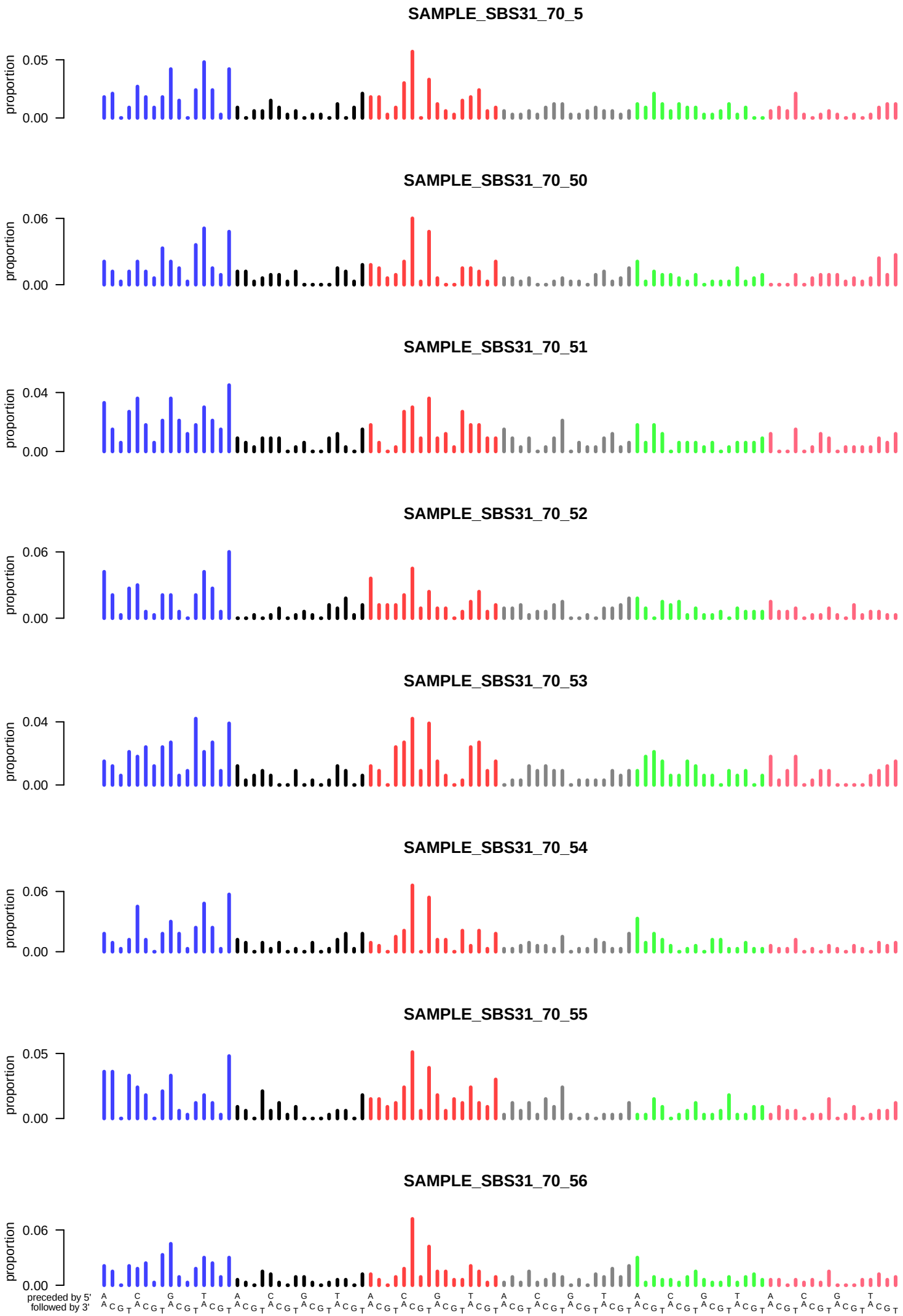
followed by 3'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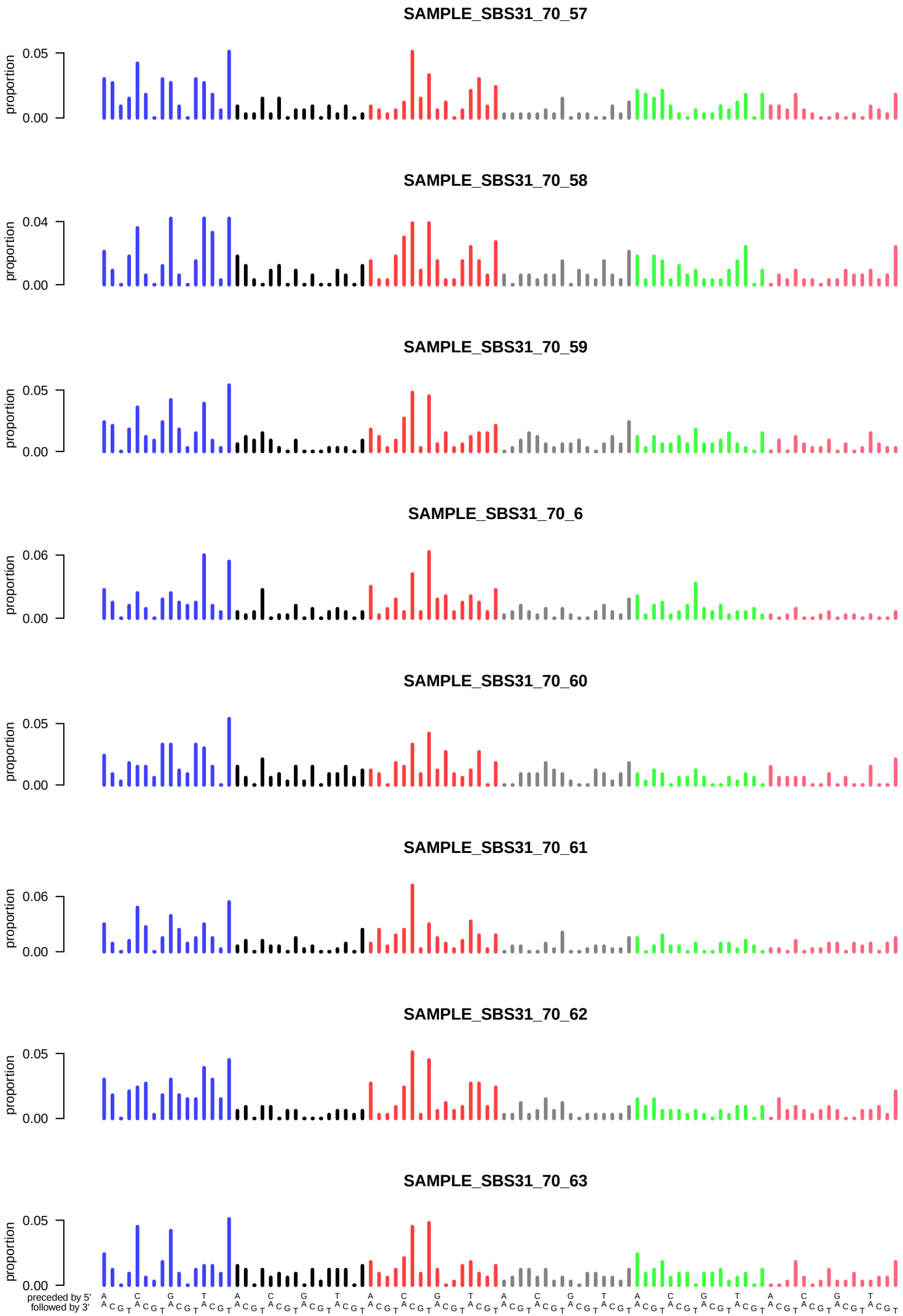
followed by 3'
A C G T A C G T A C G T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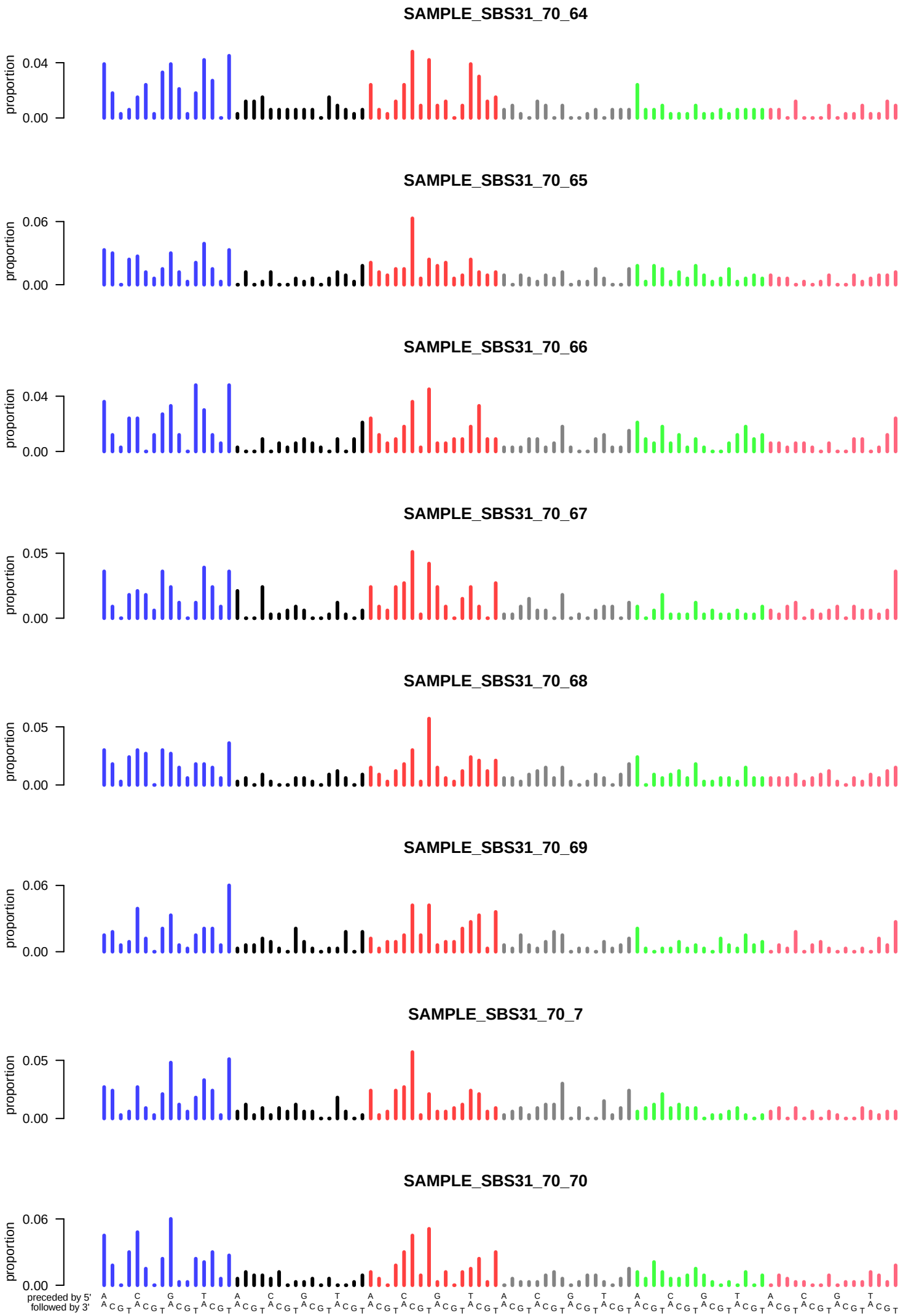
followed by 3'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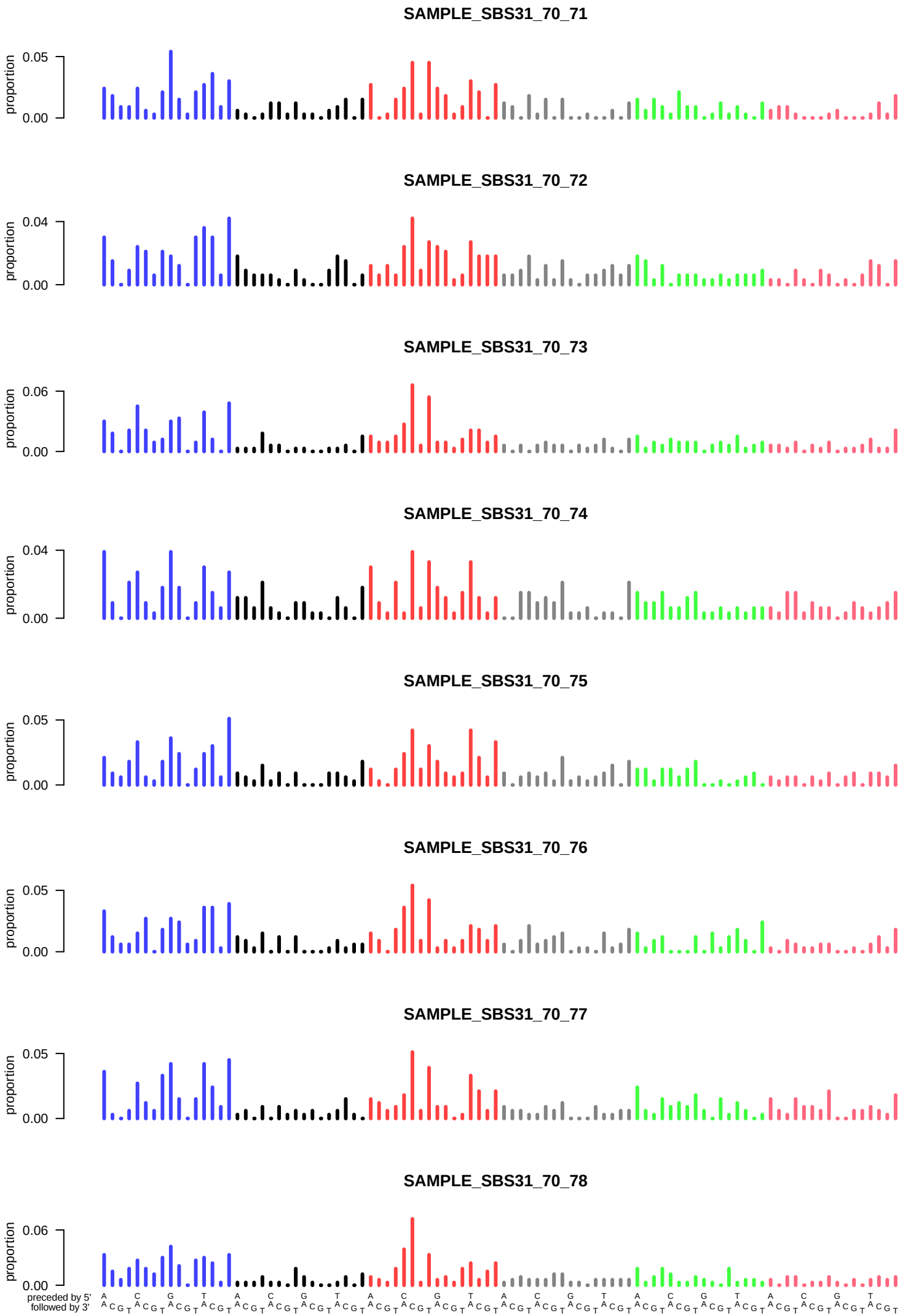
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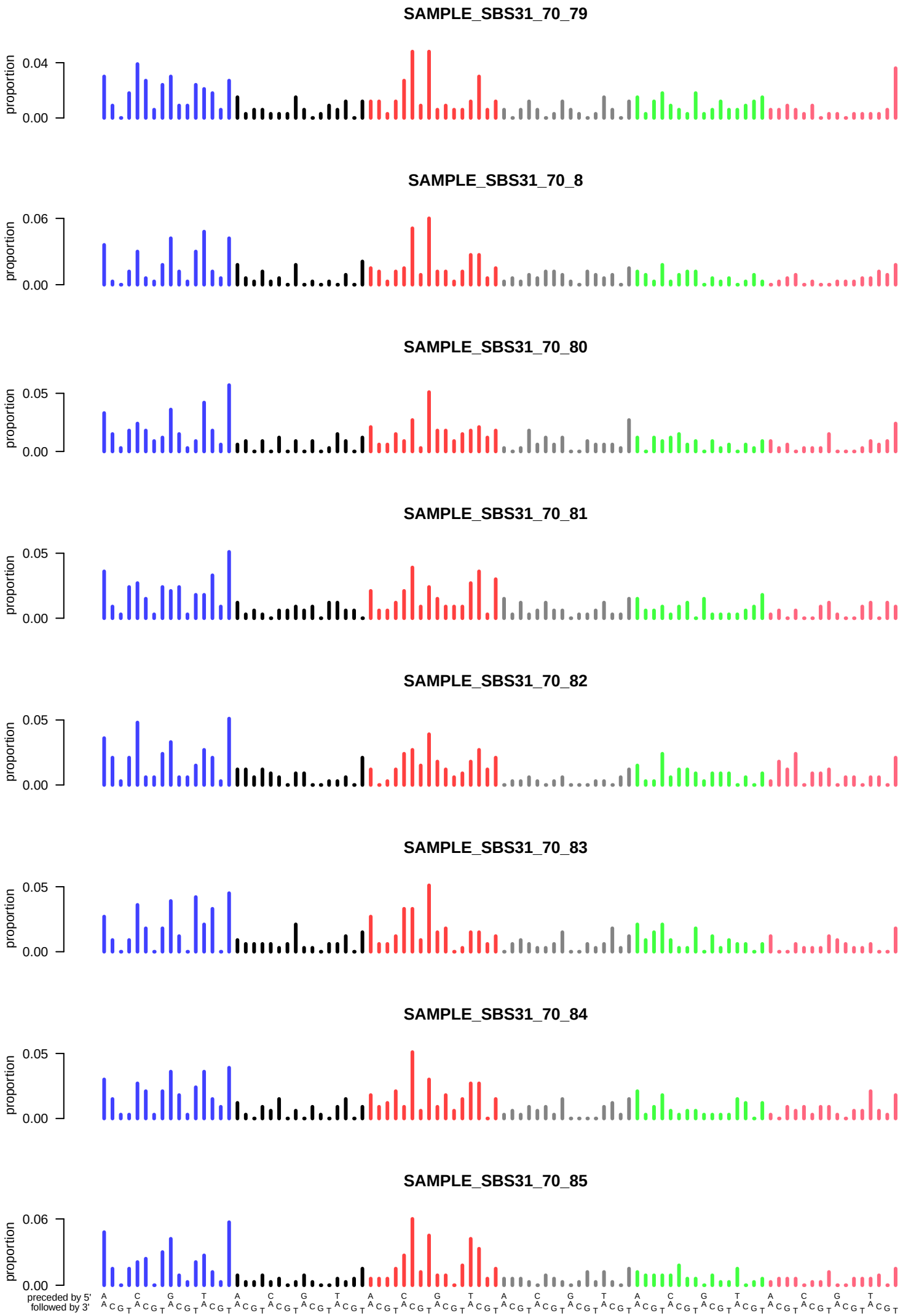
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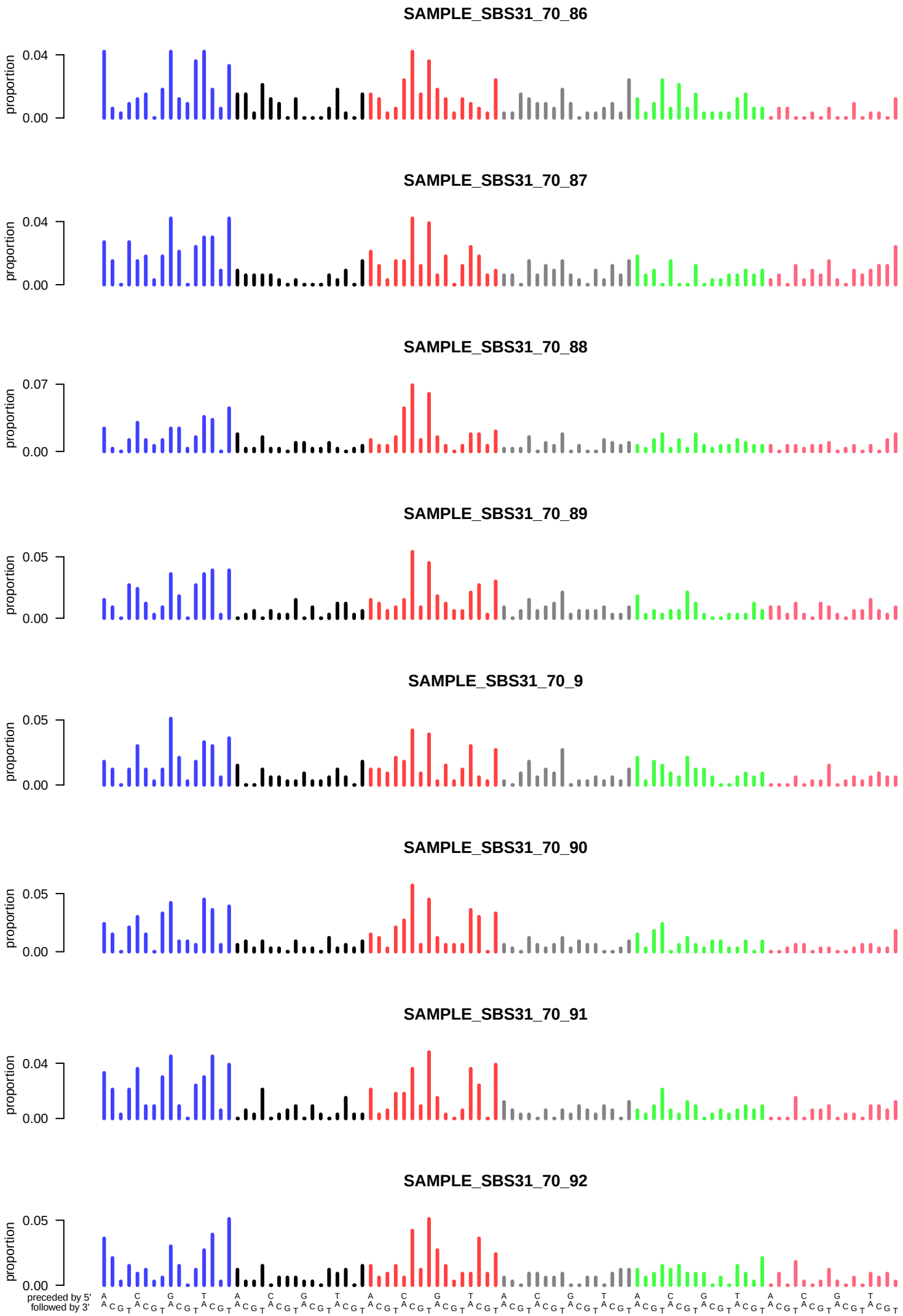
followed by 3'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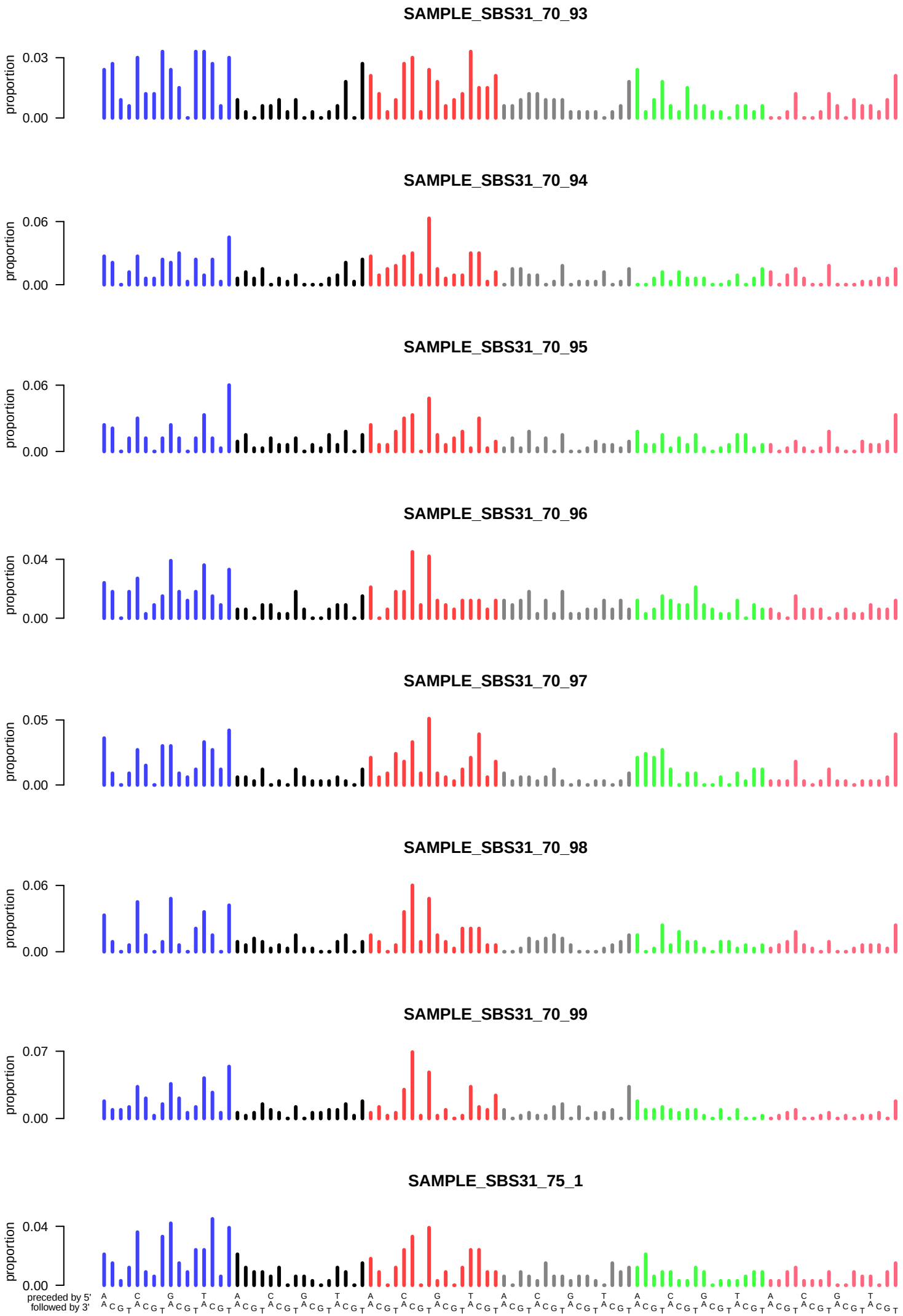
followed by 3'
A C G T A C G T A C G T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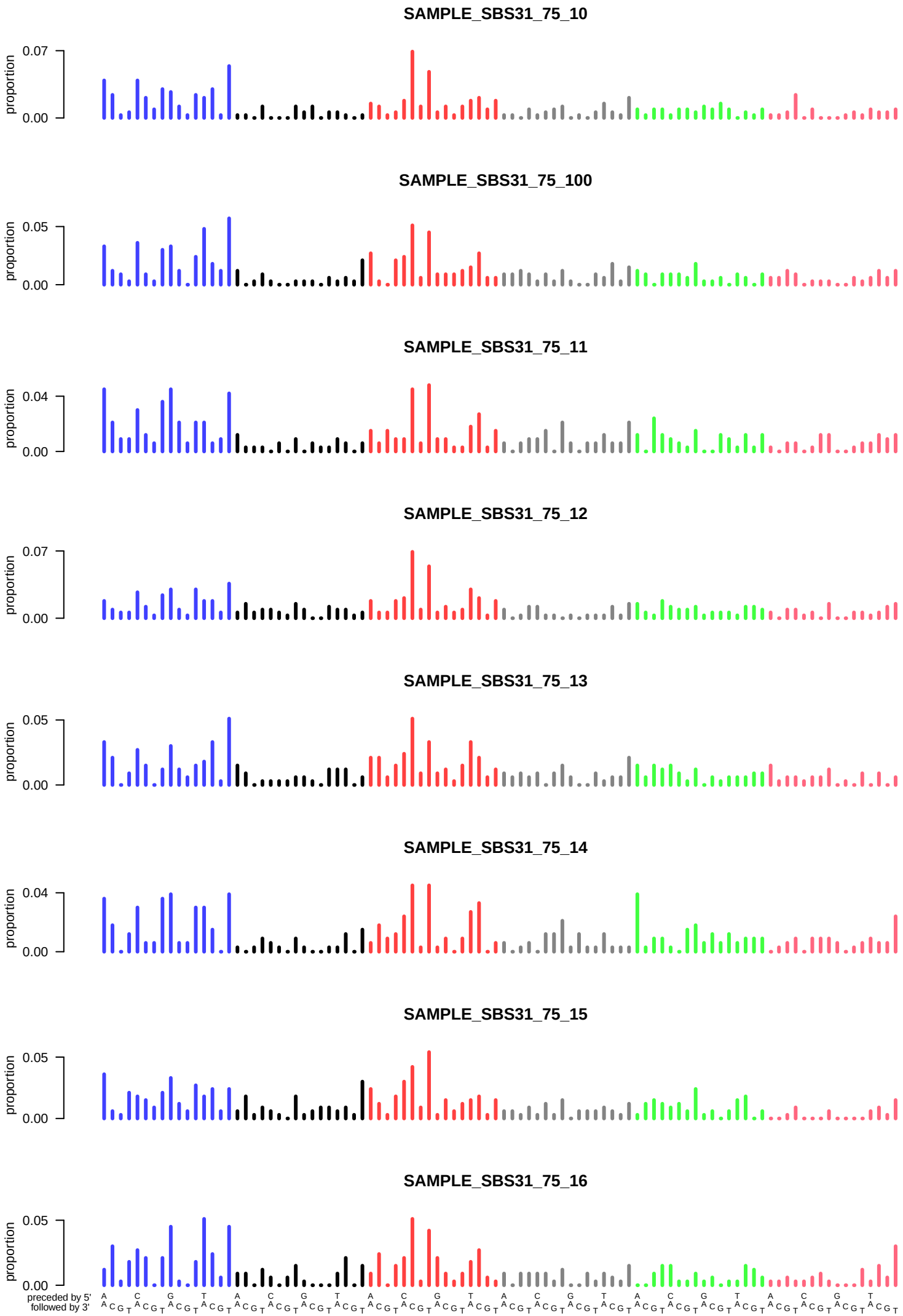
followed by 3'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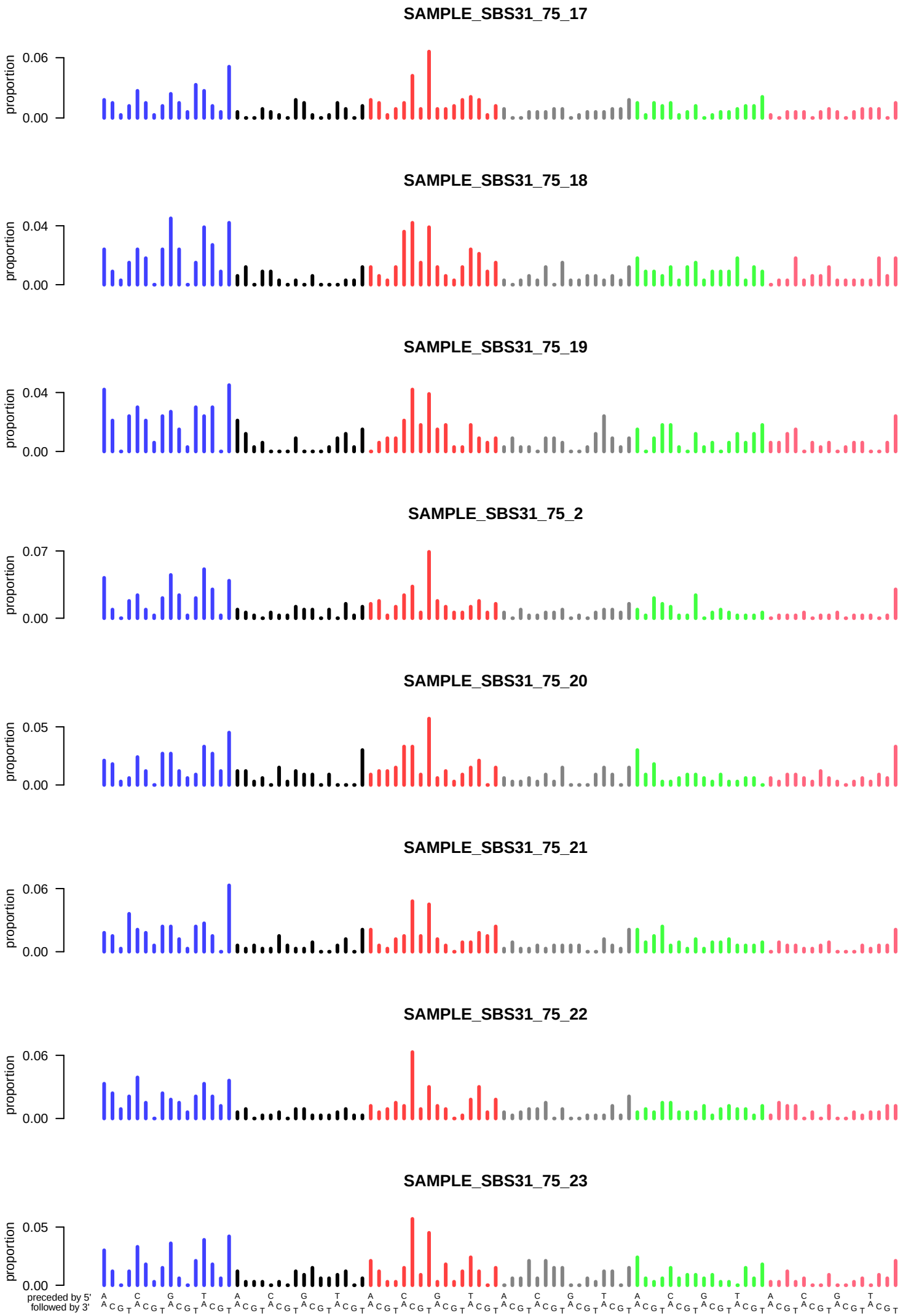
followed by 3'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SAMPLE_SBS31_75_23
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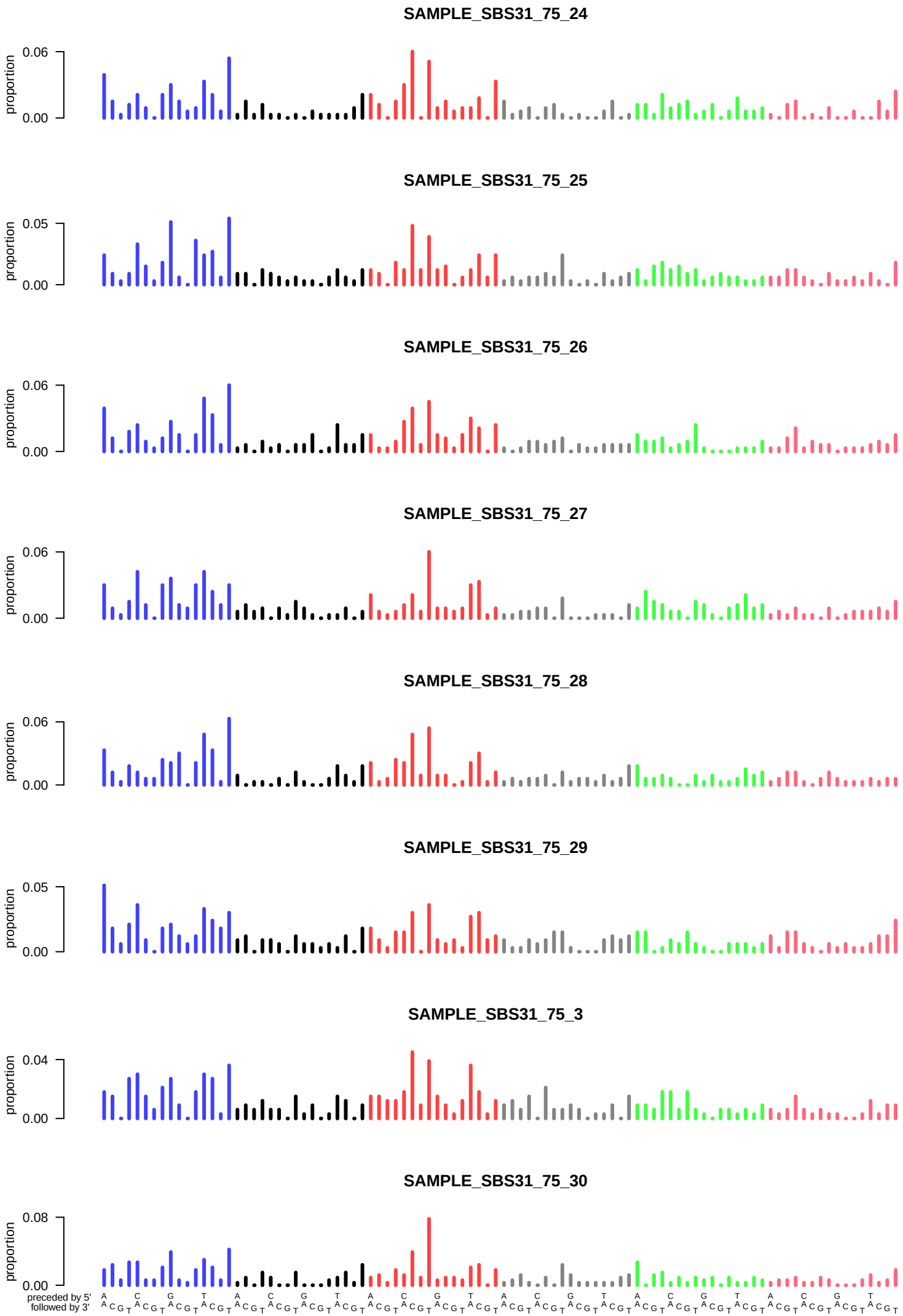
0.00
preceded by 5'
followed by 3'
A C G T A C G T A C G T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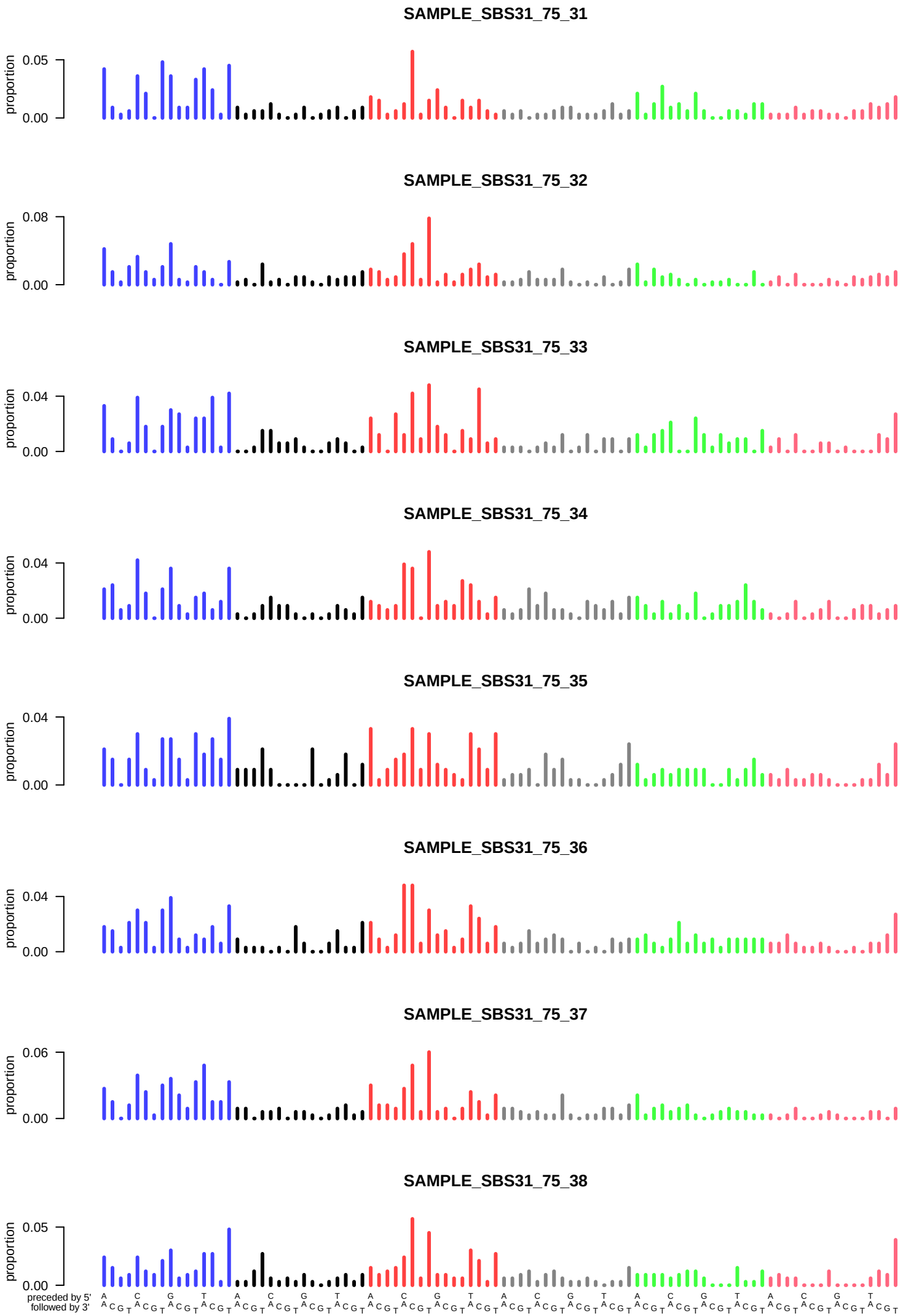
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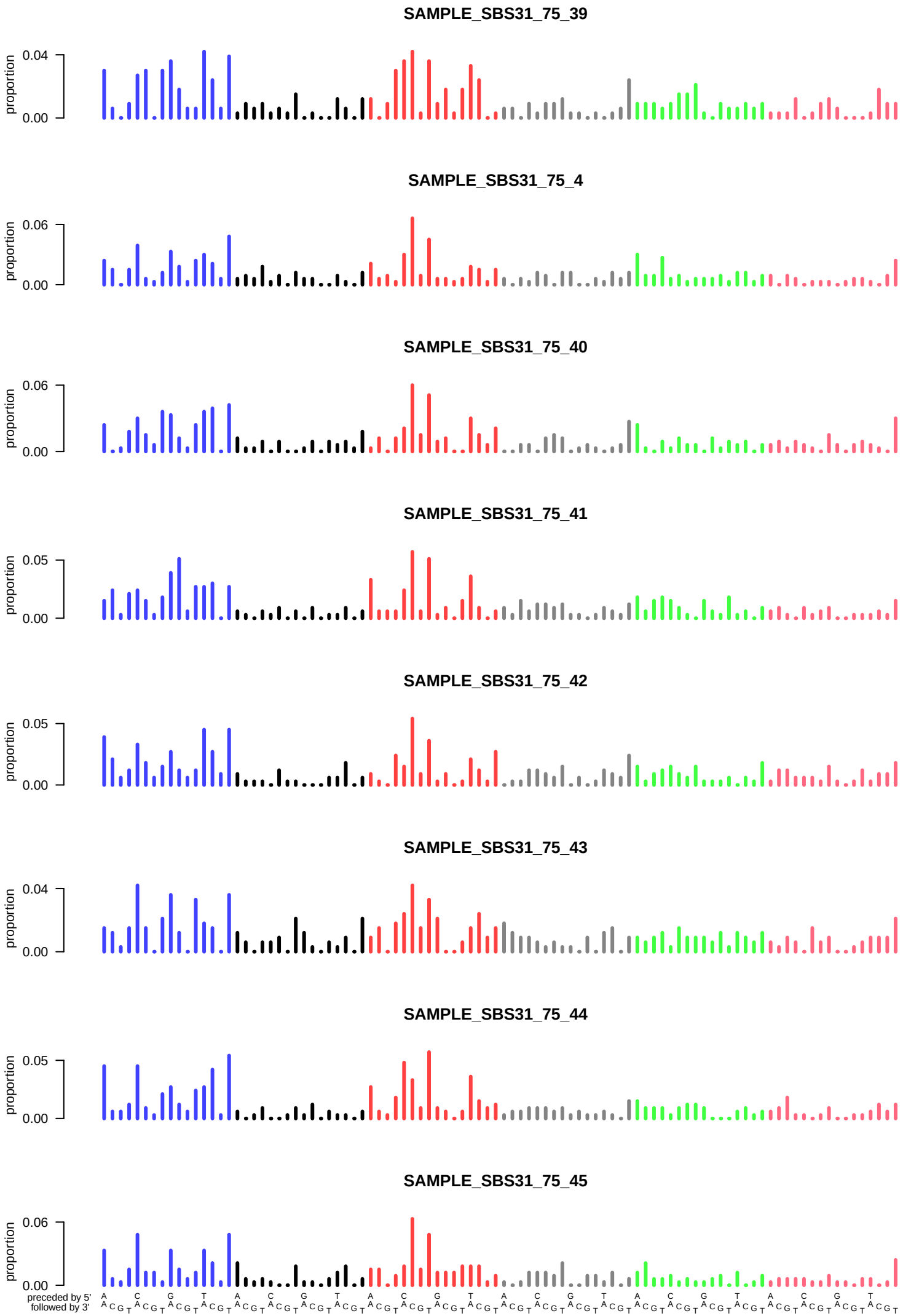
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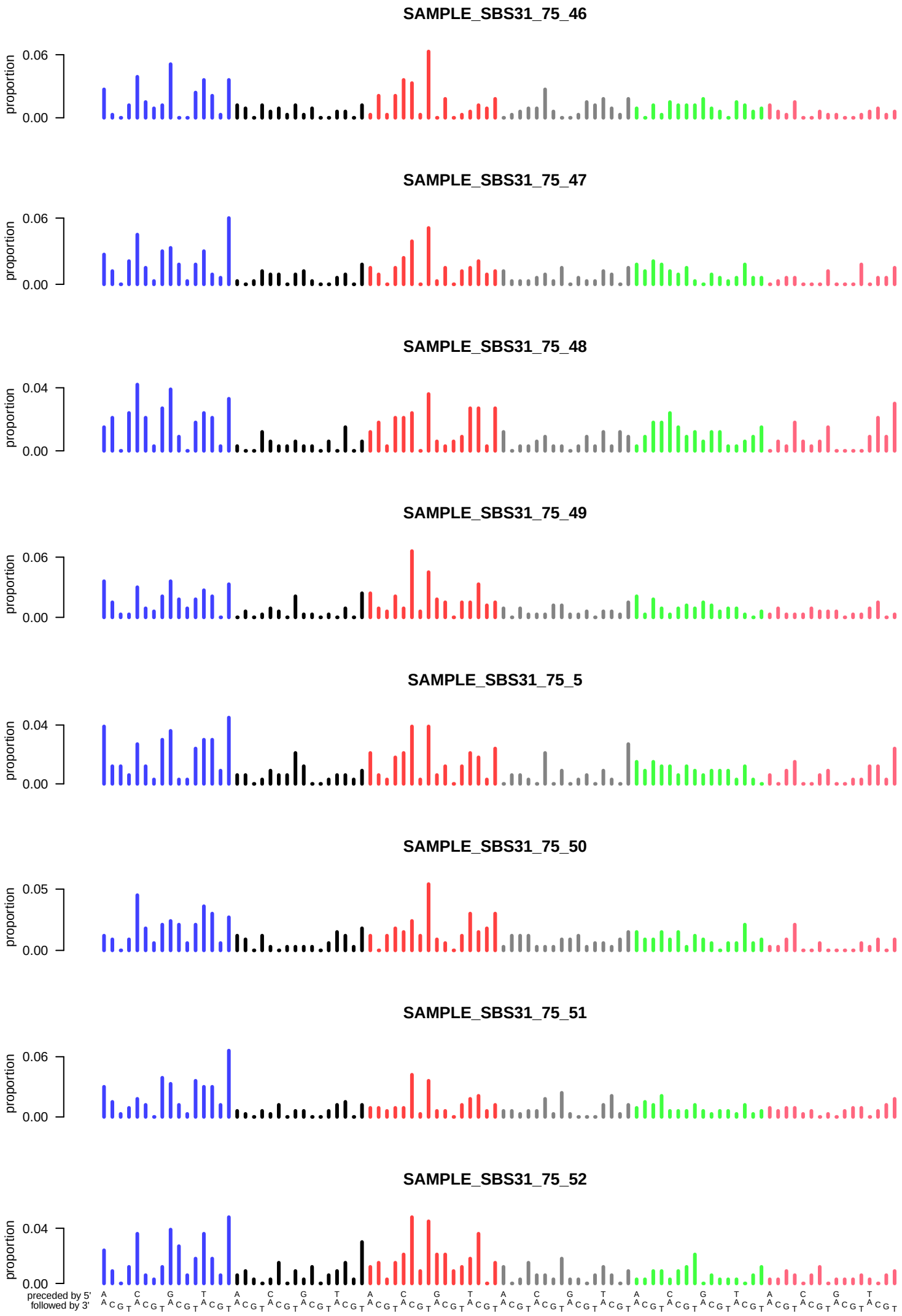
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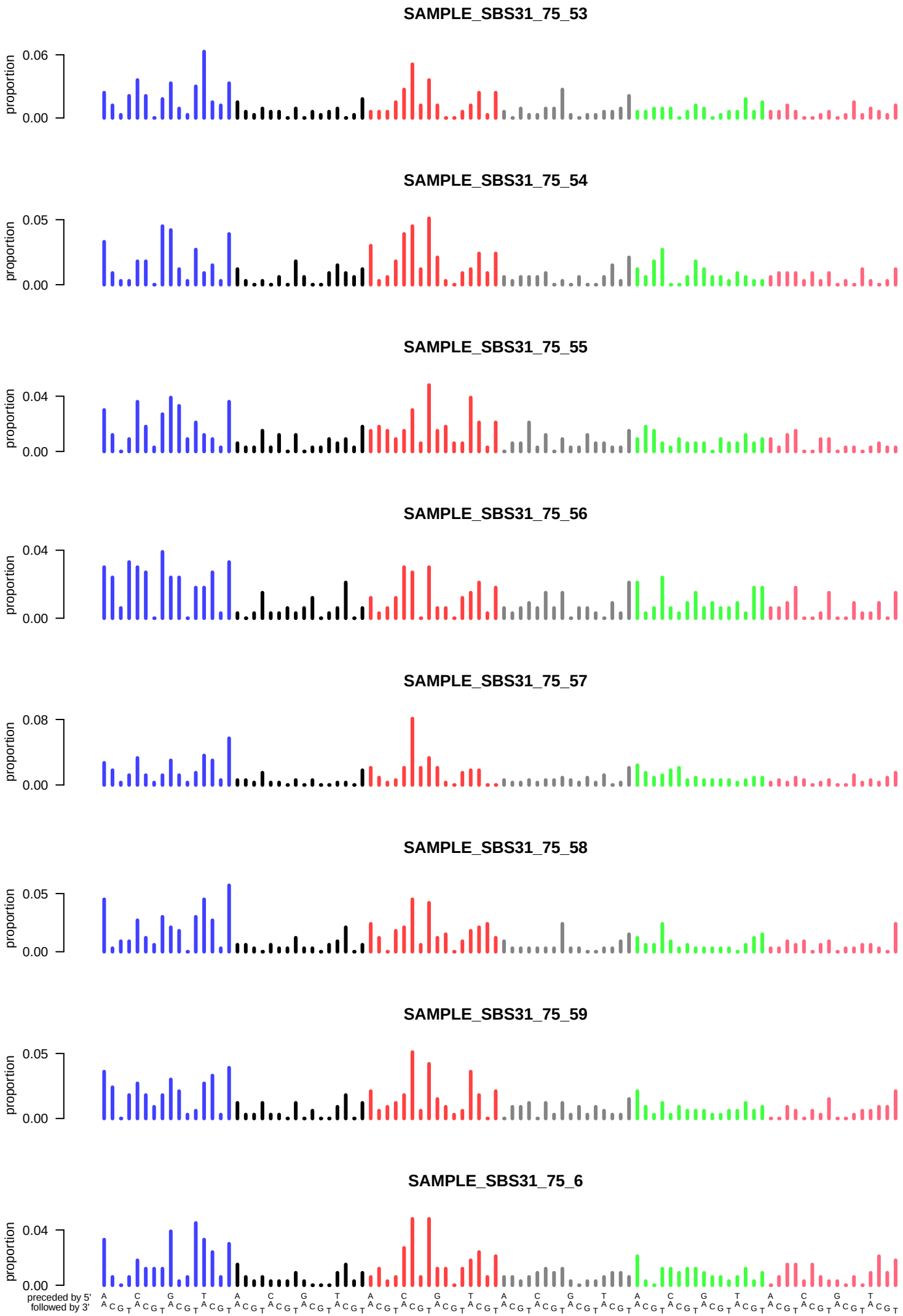
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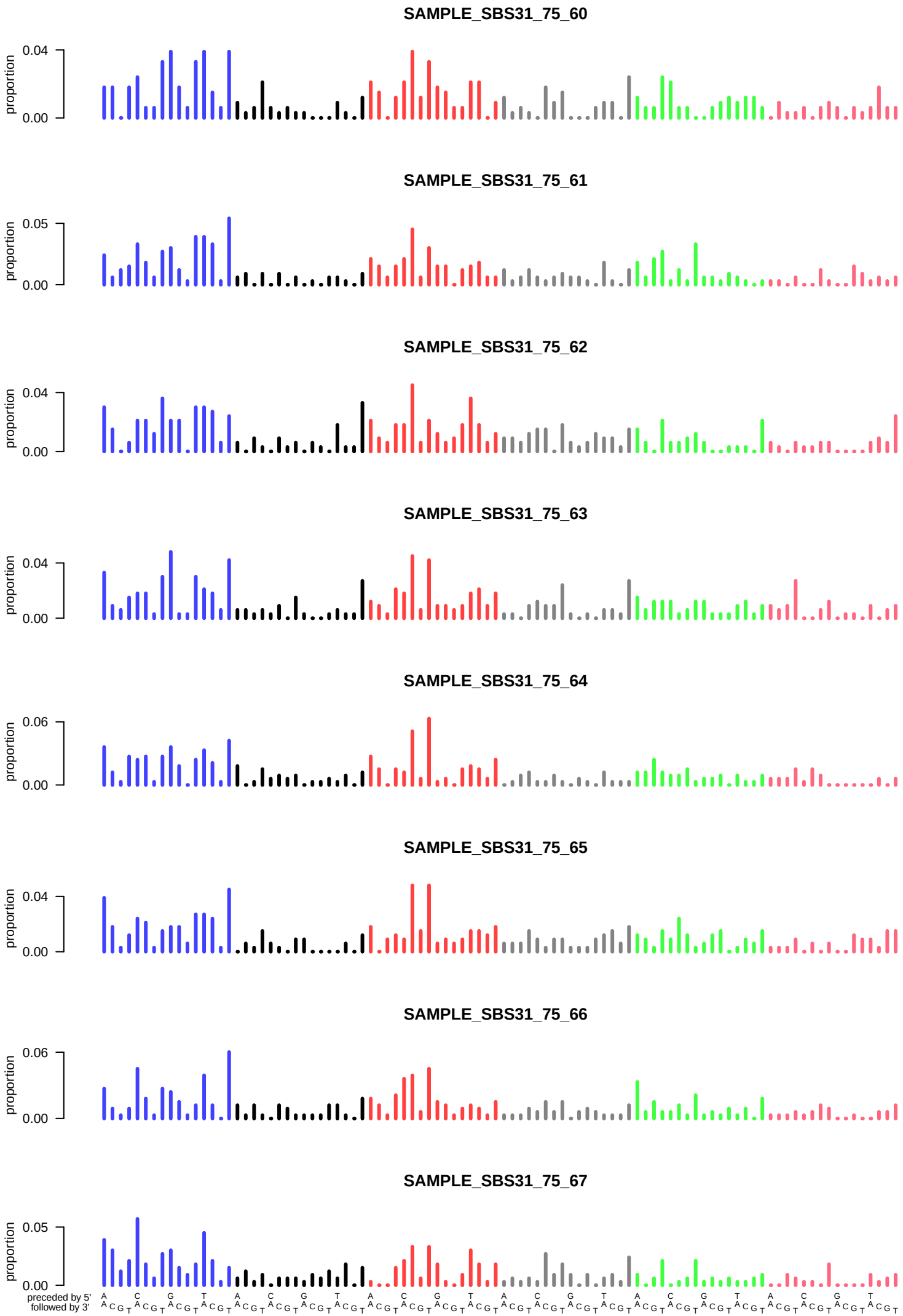
followed by 3'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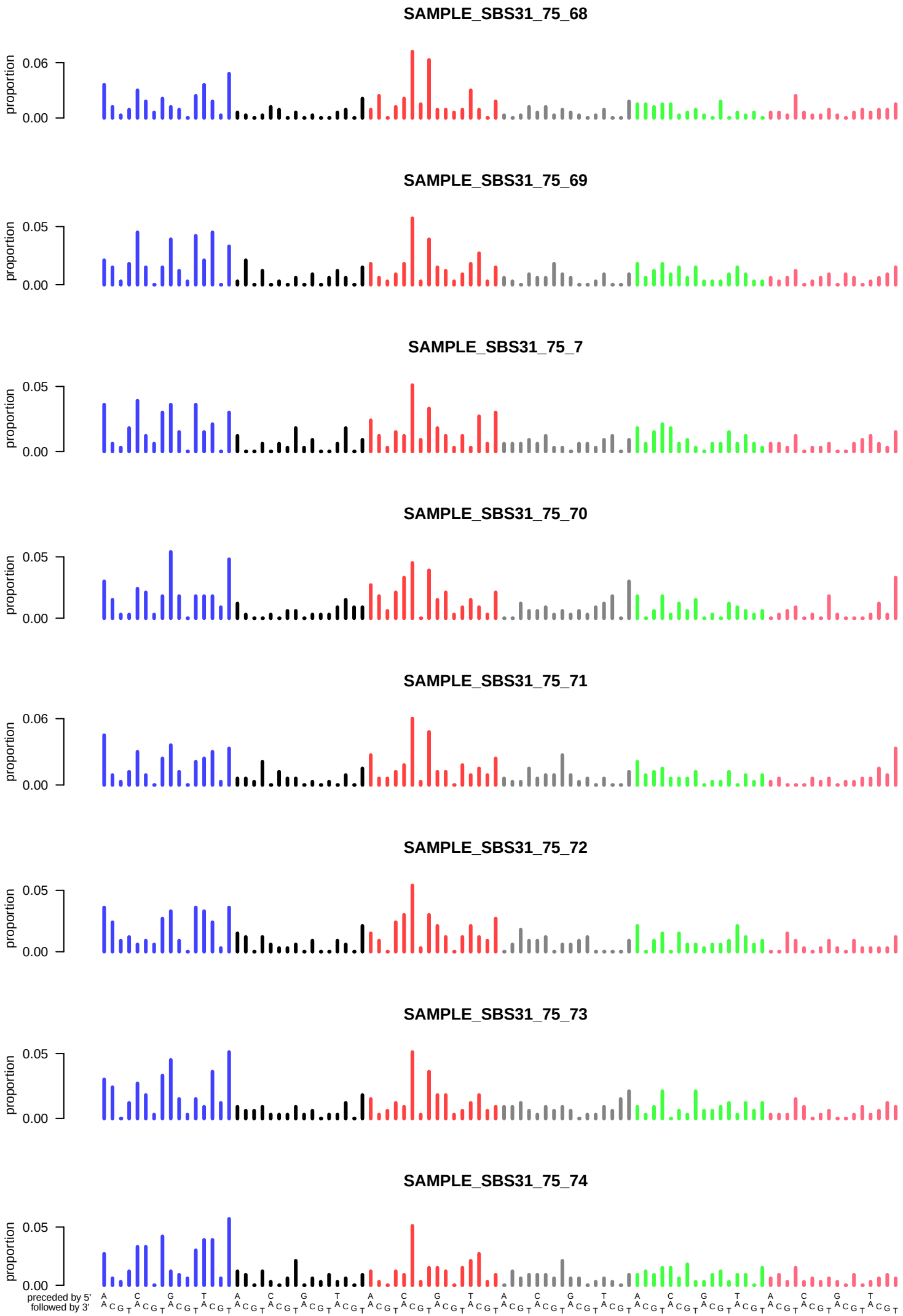
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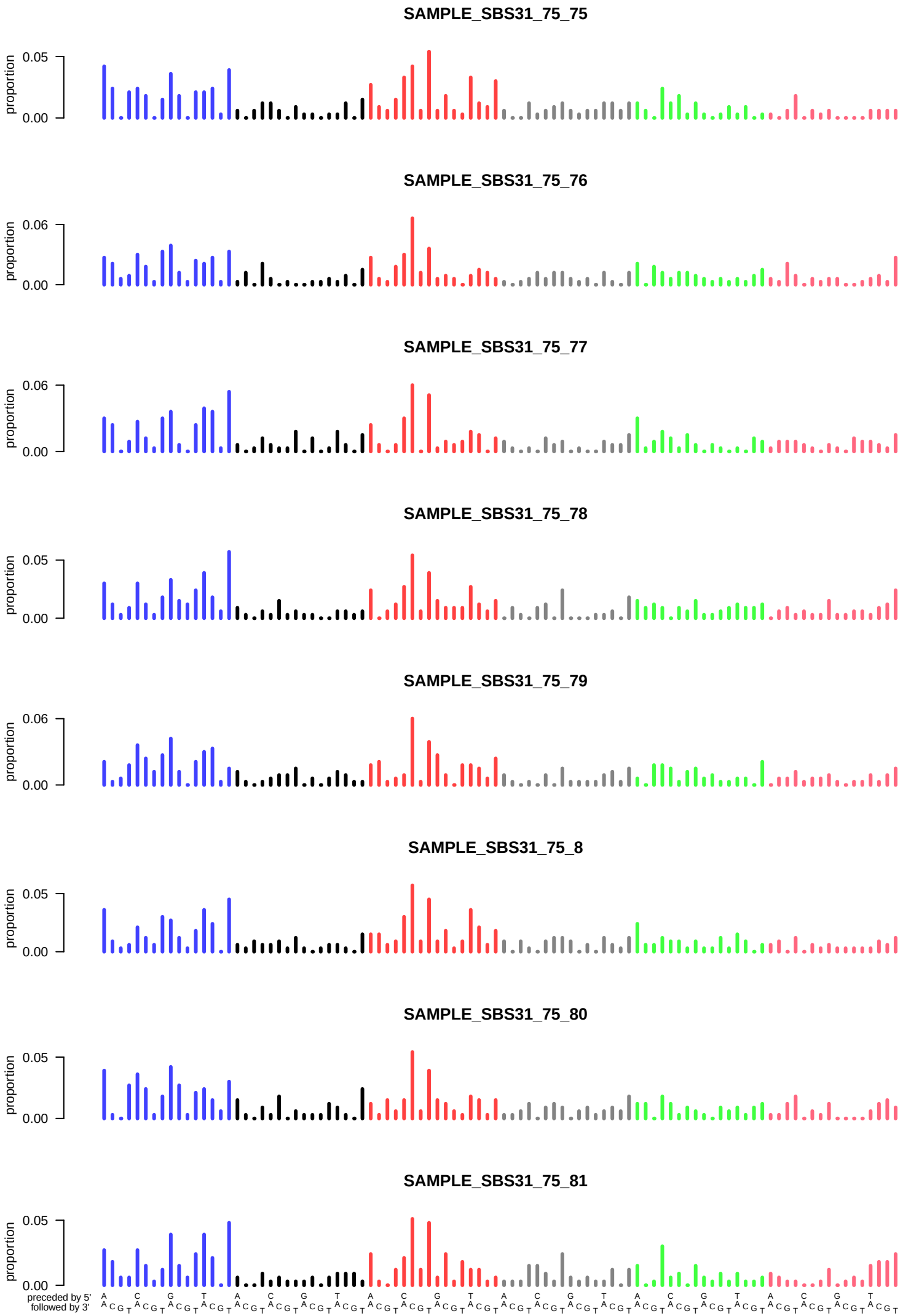
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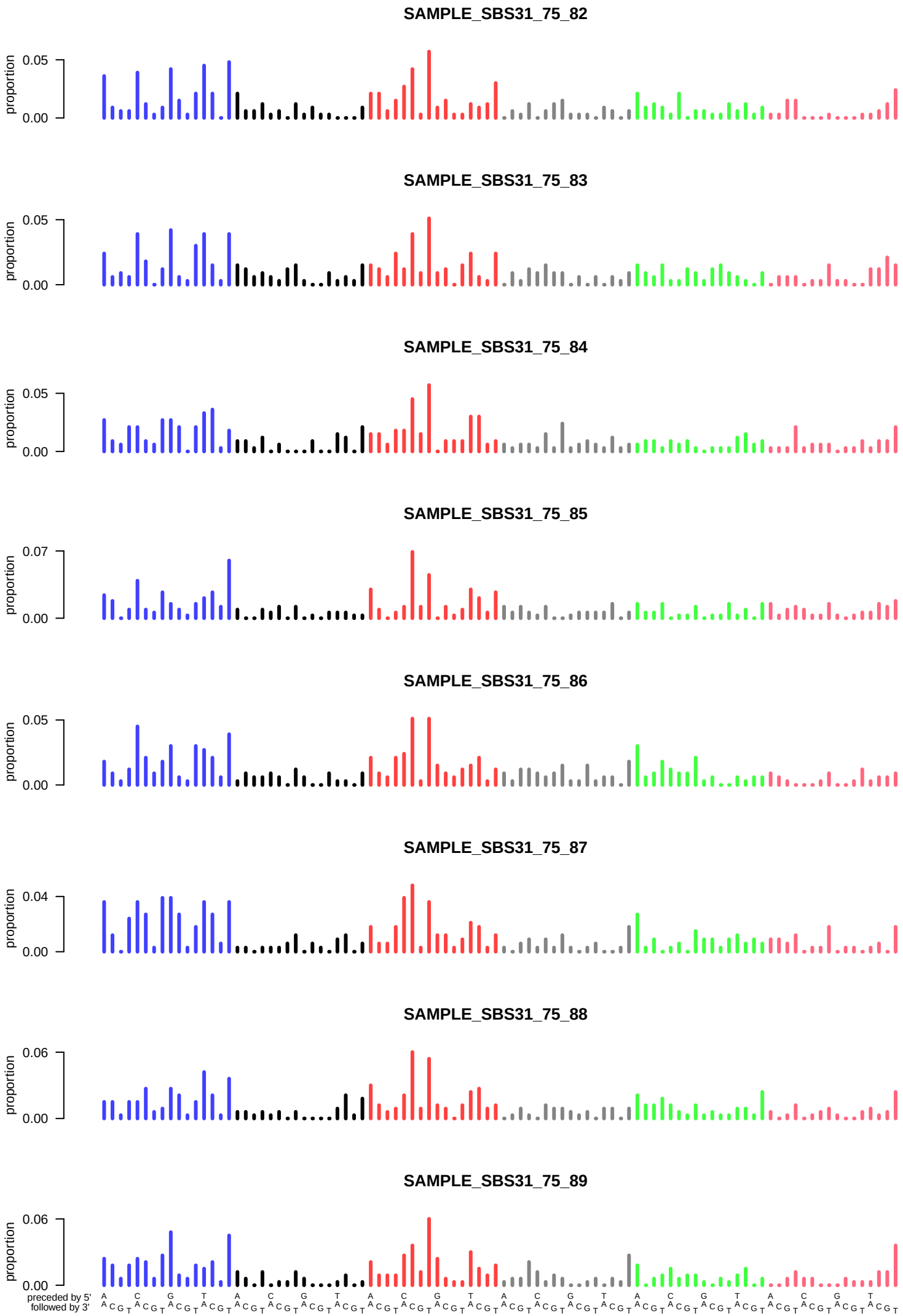
followed by 3'
A C G T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followed by 3'
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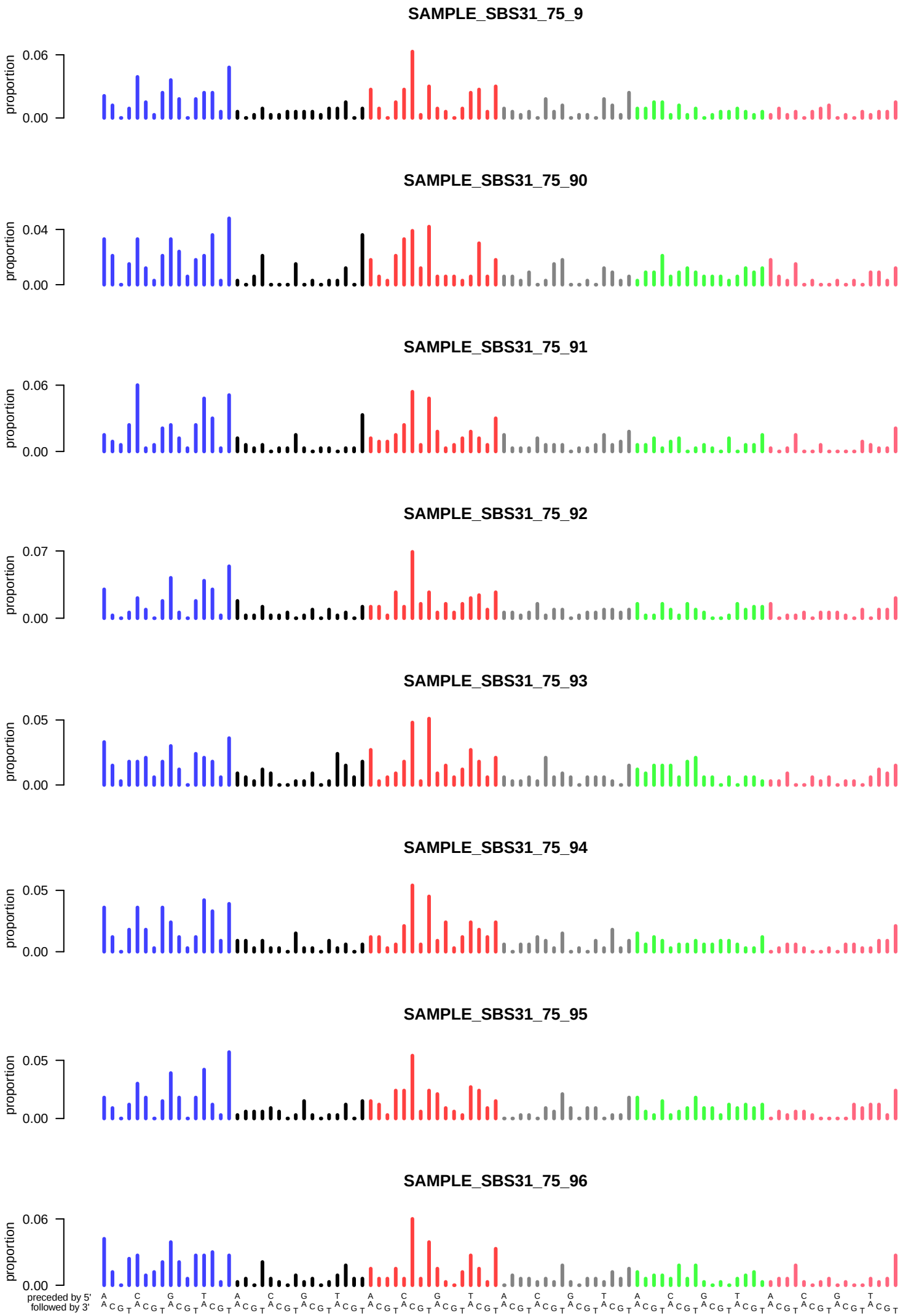
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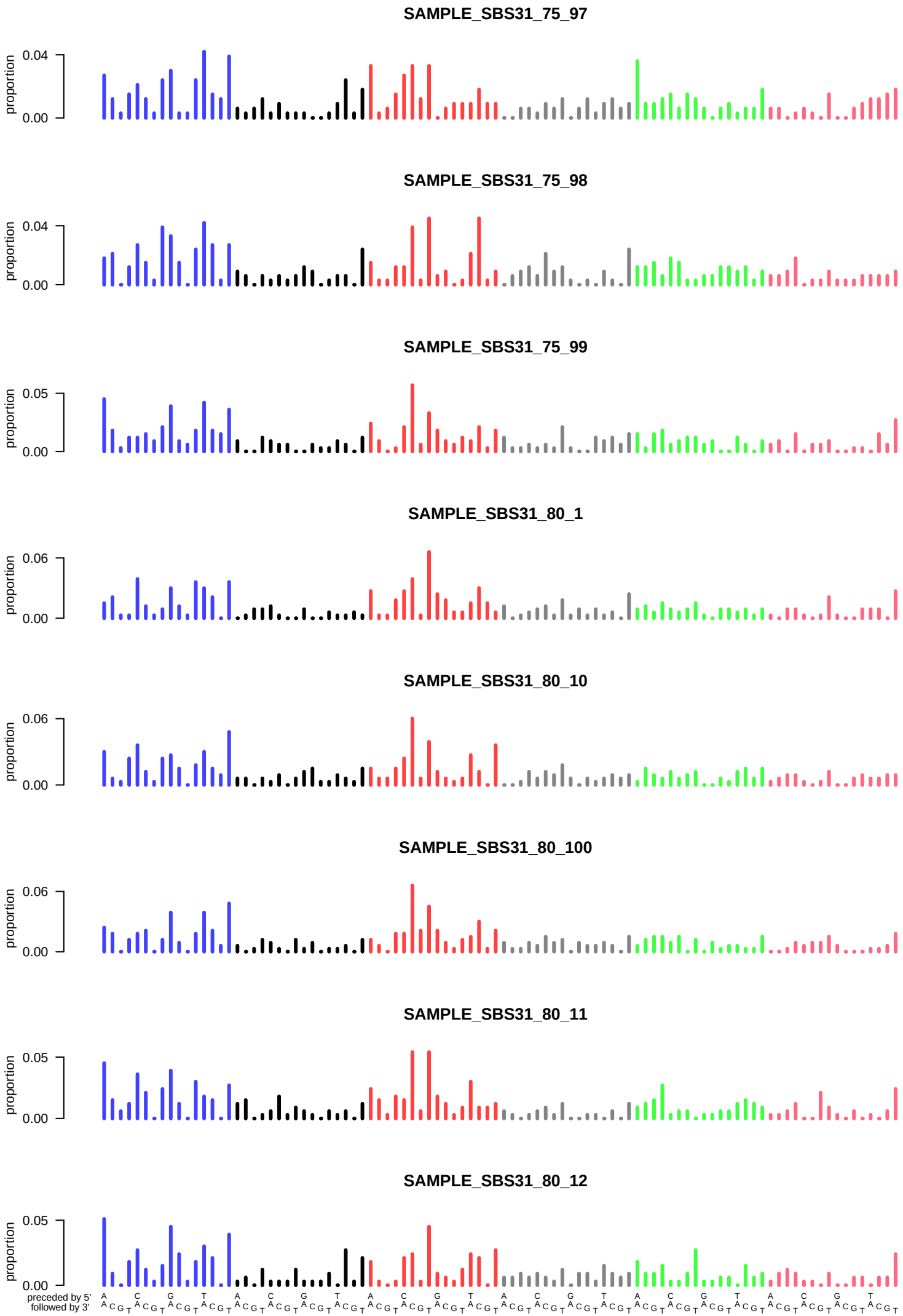
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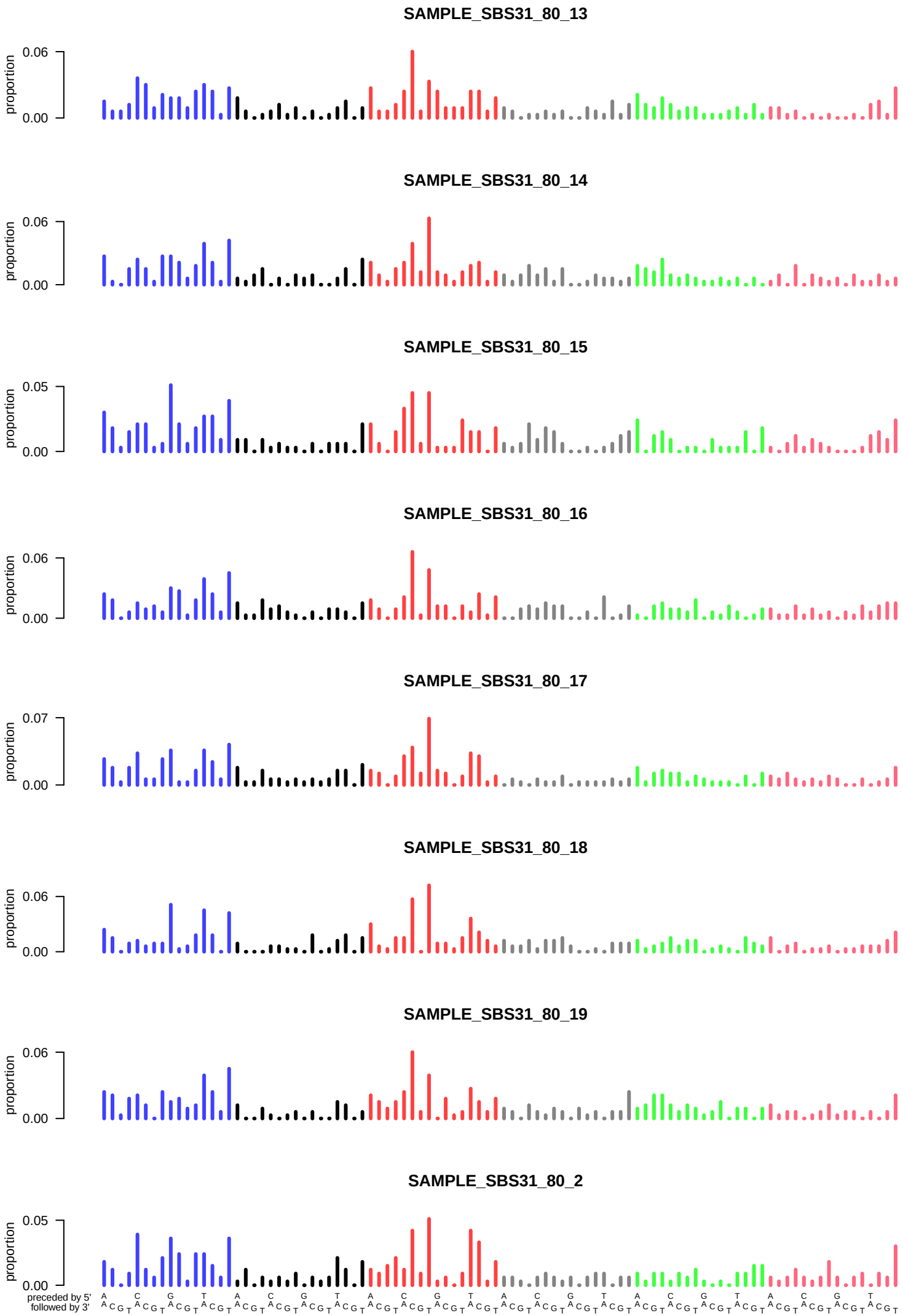
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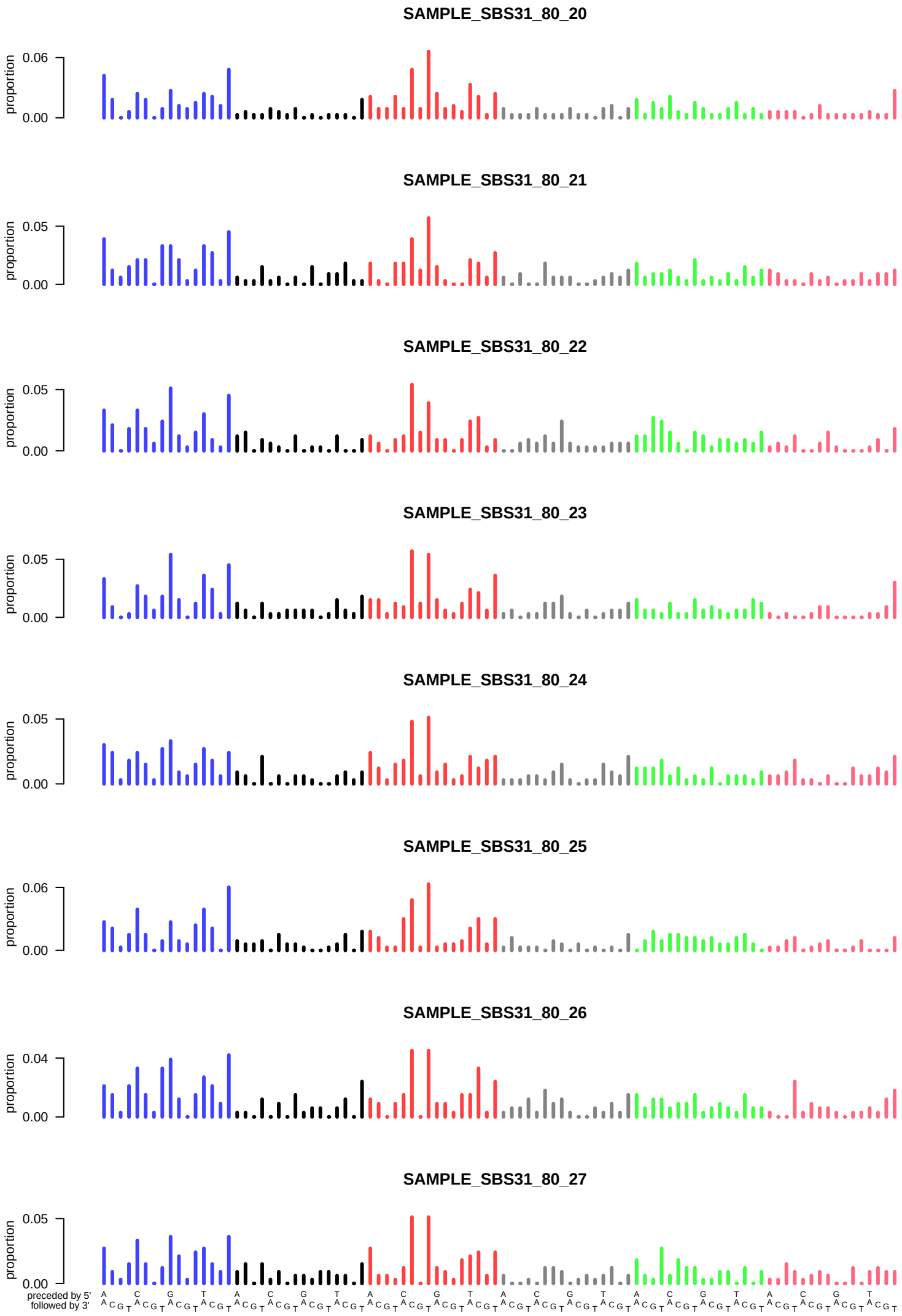
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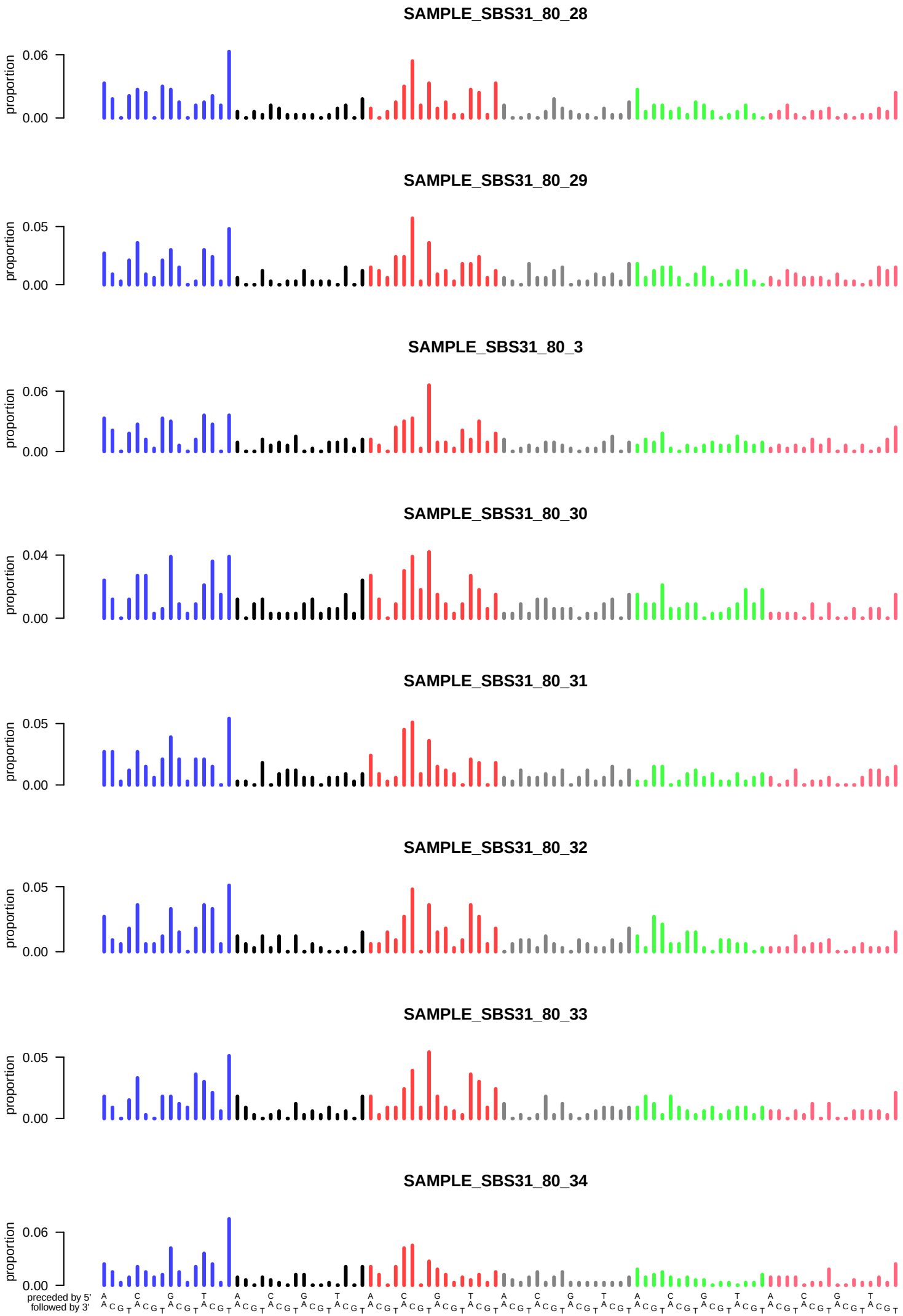
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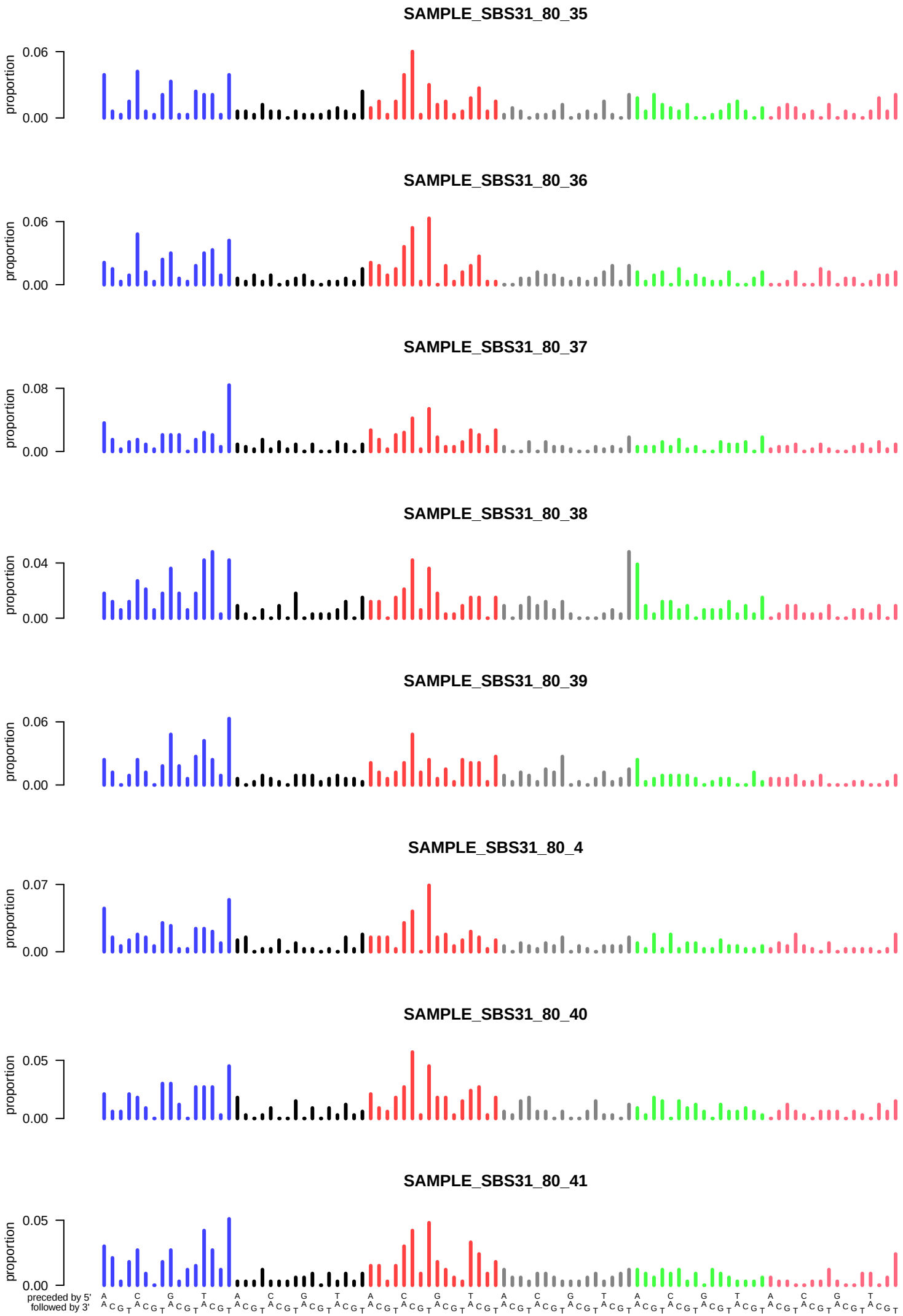
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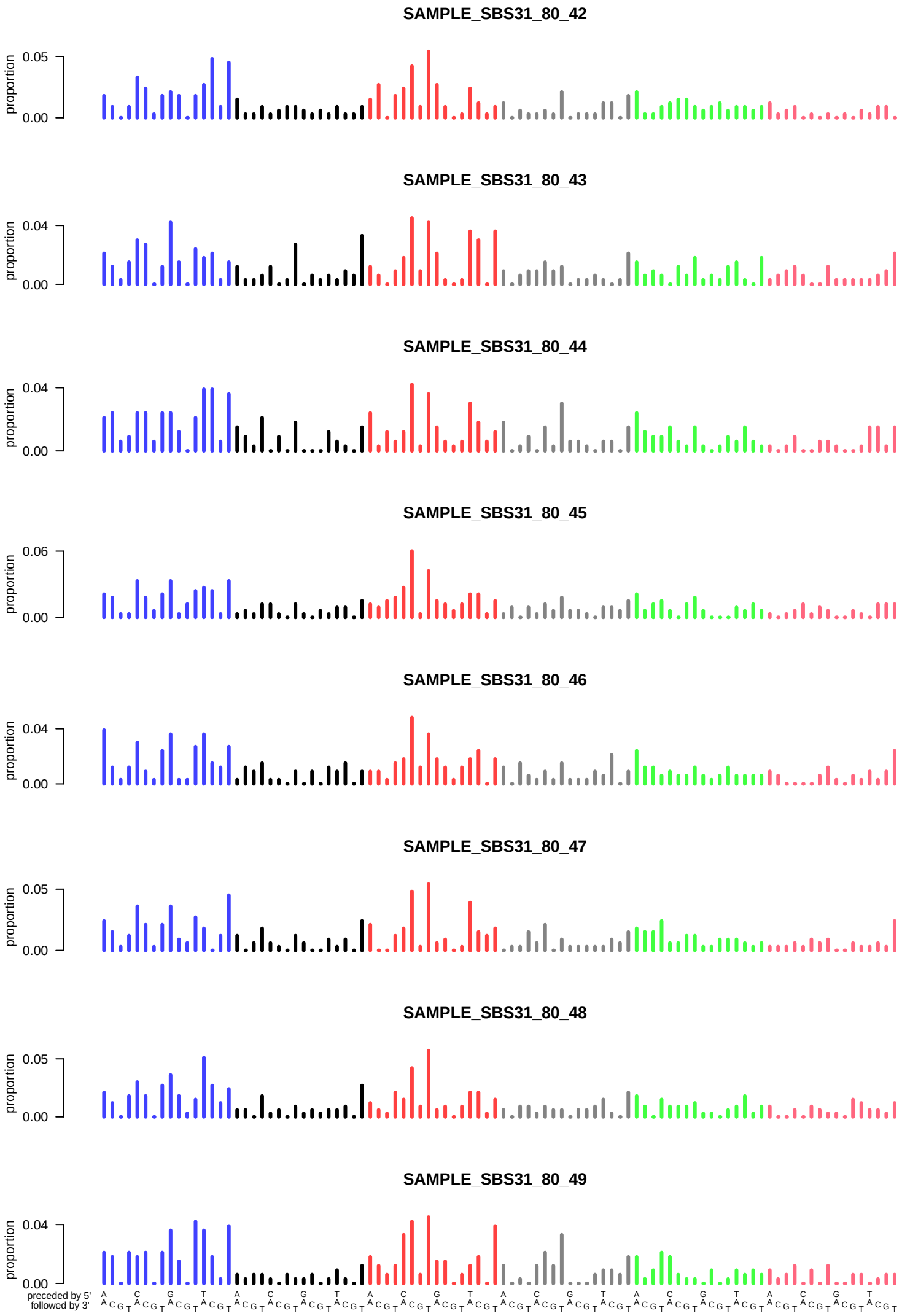
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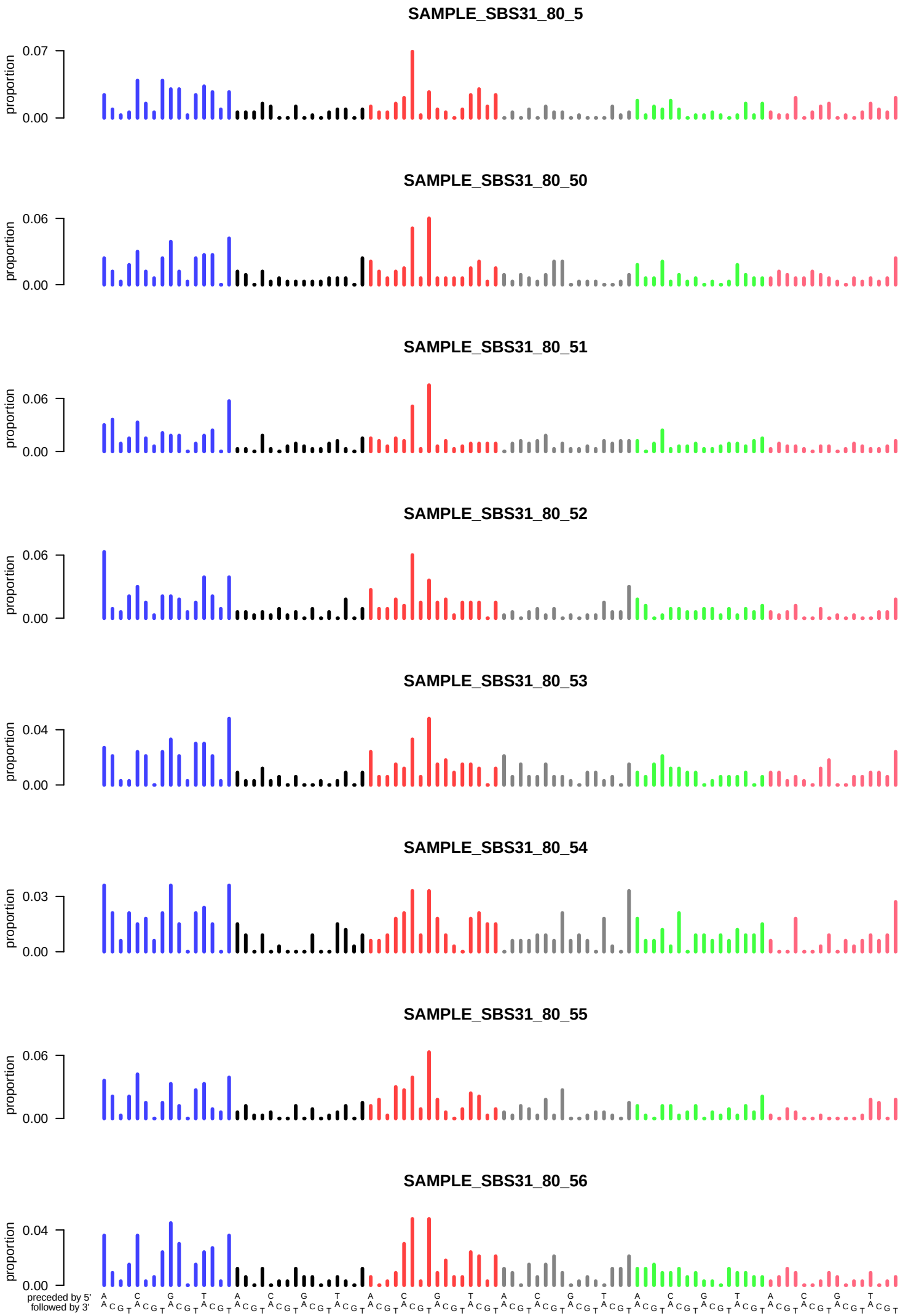
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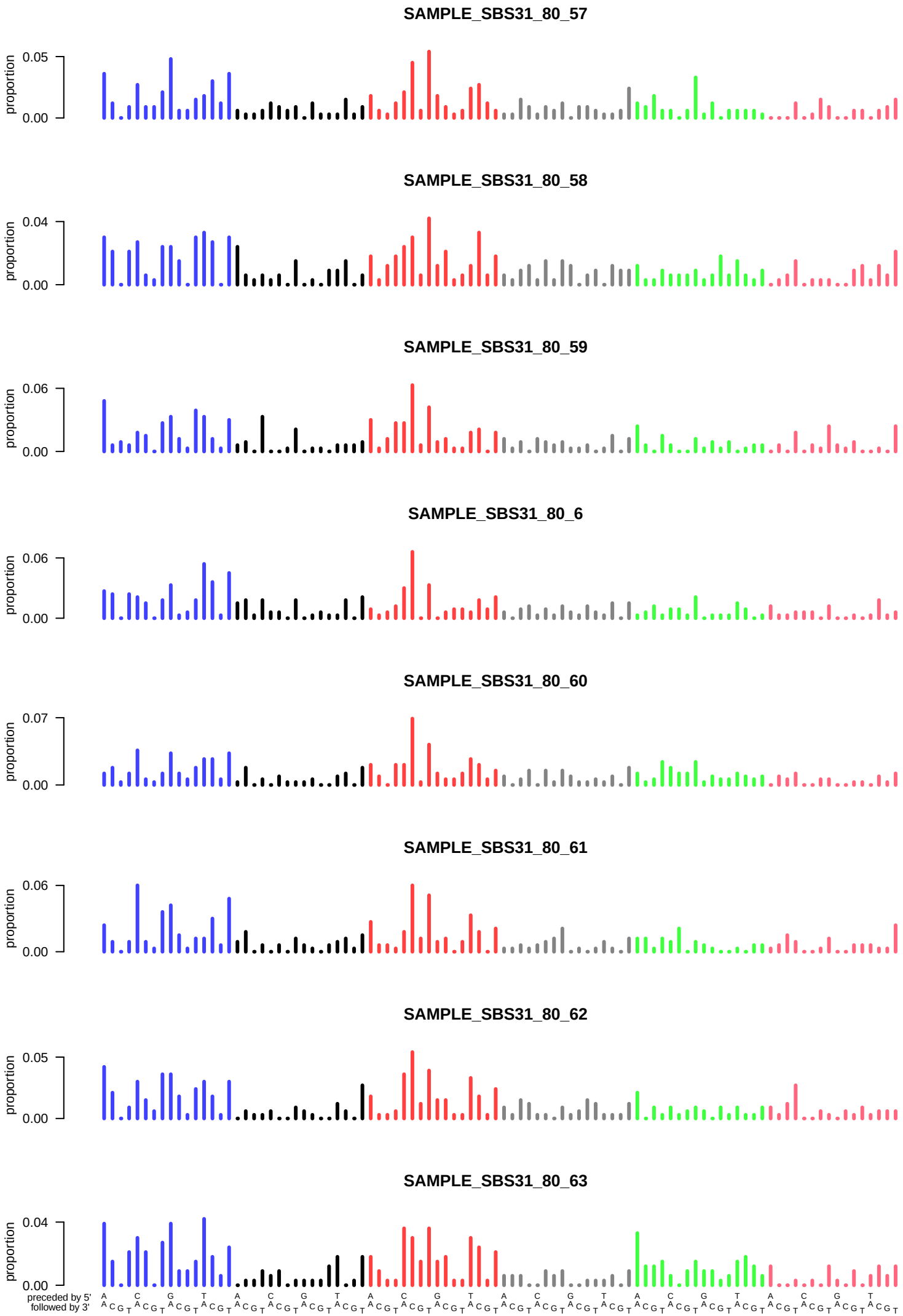
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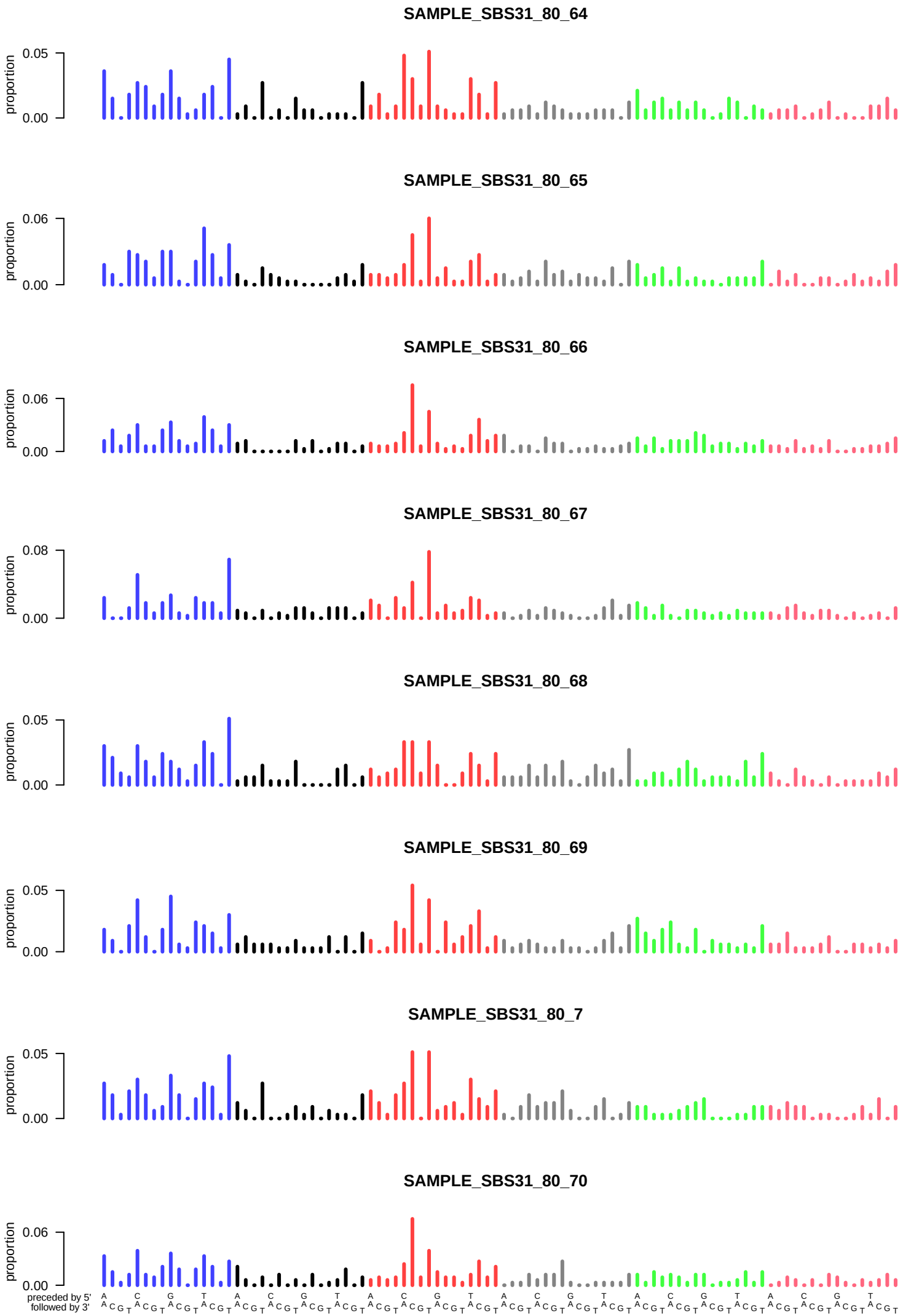
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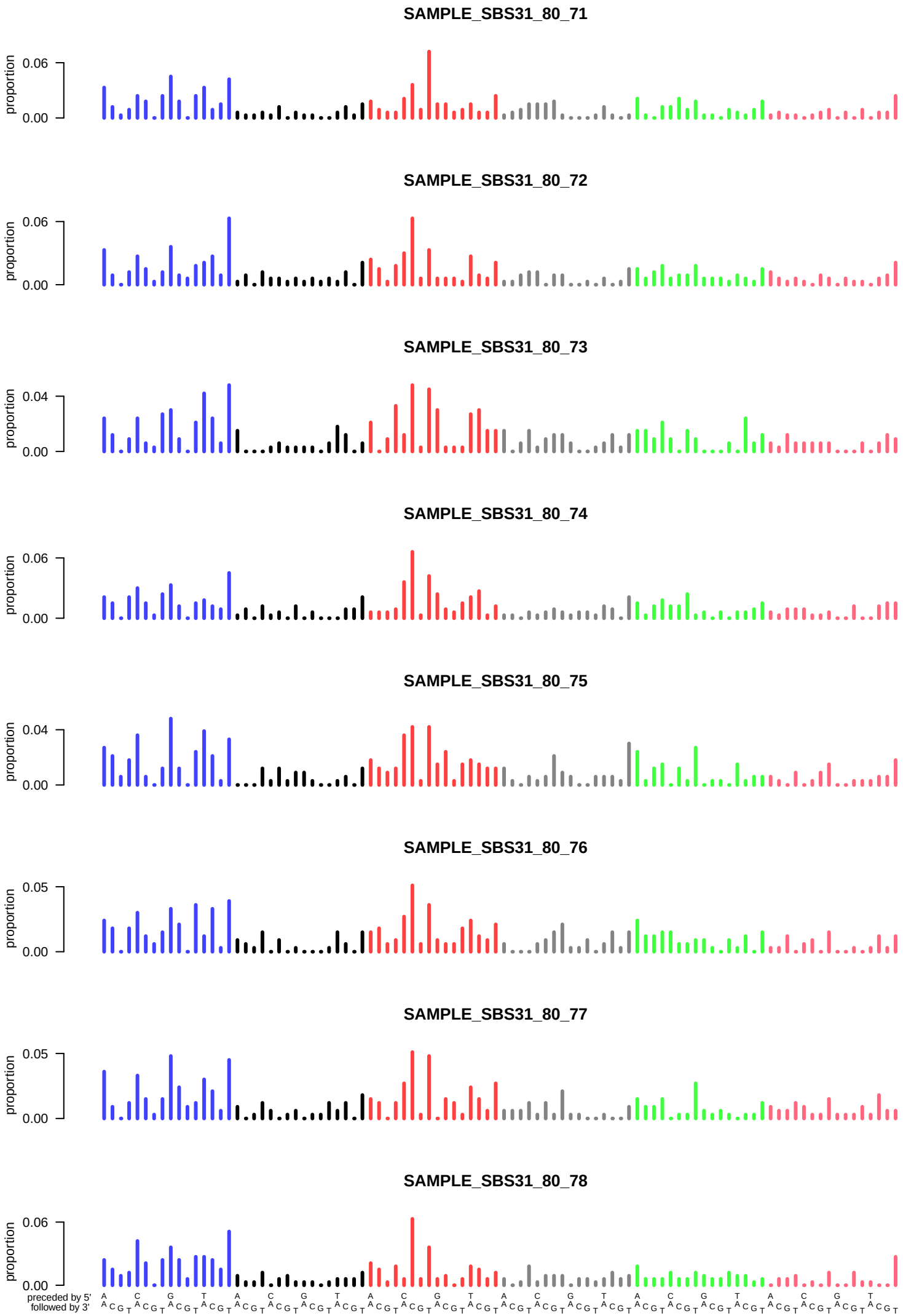
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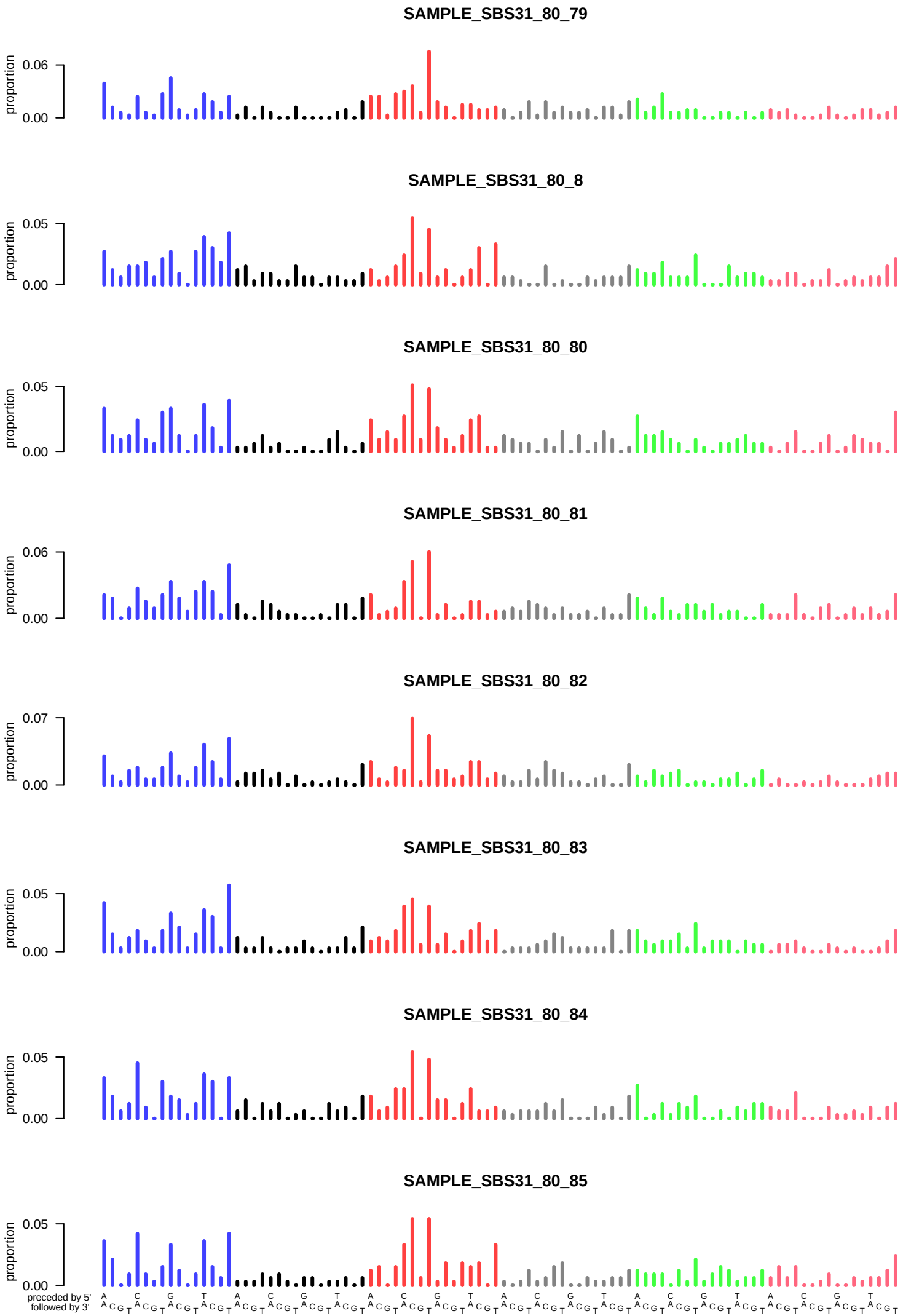
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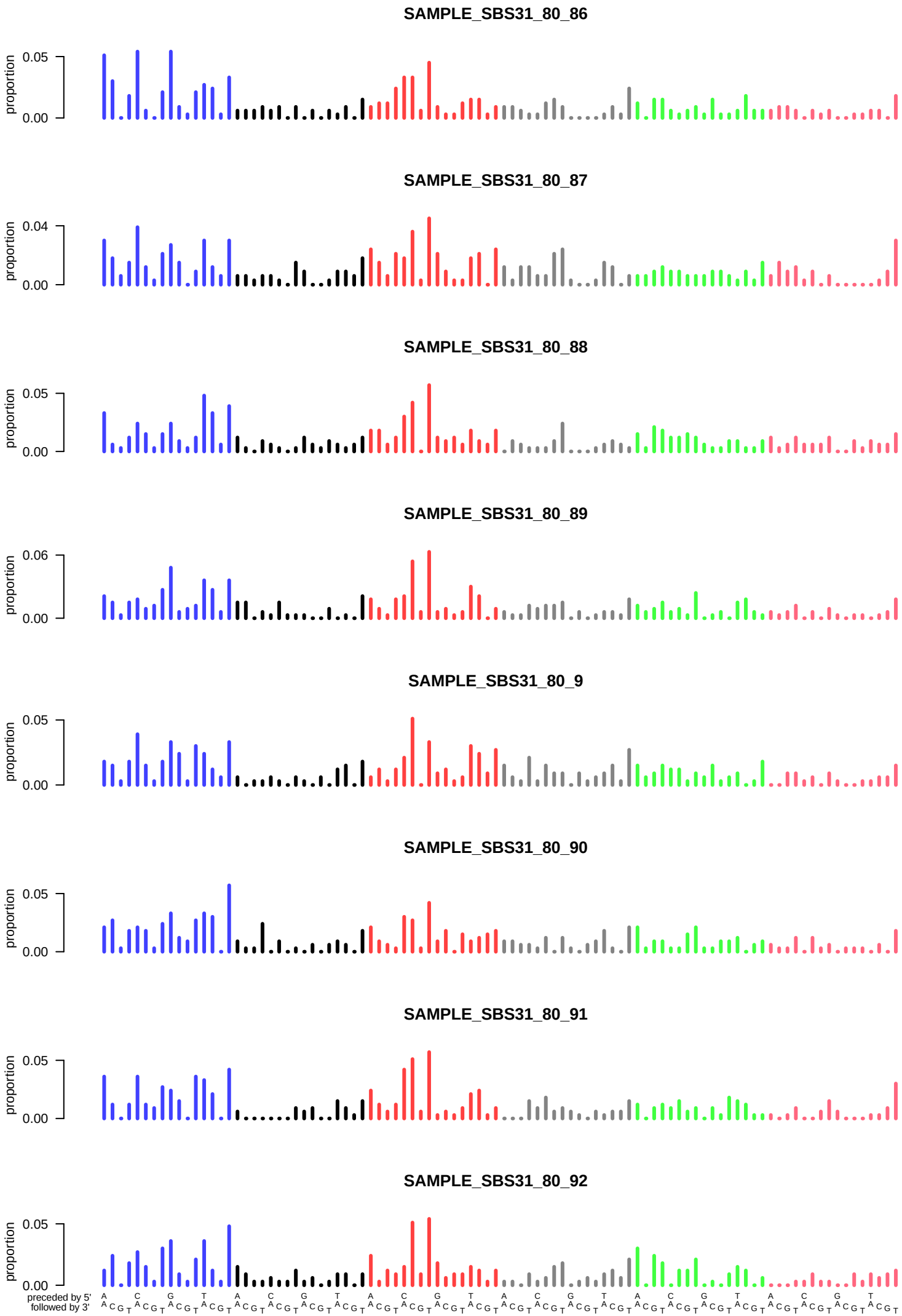
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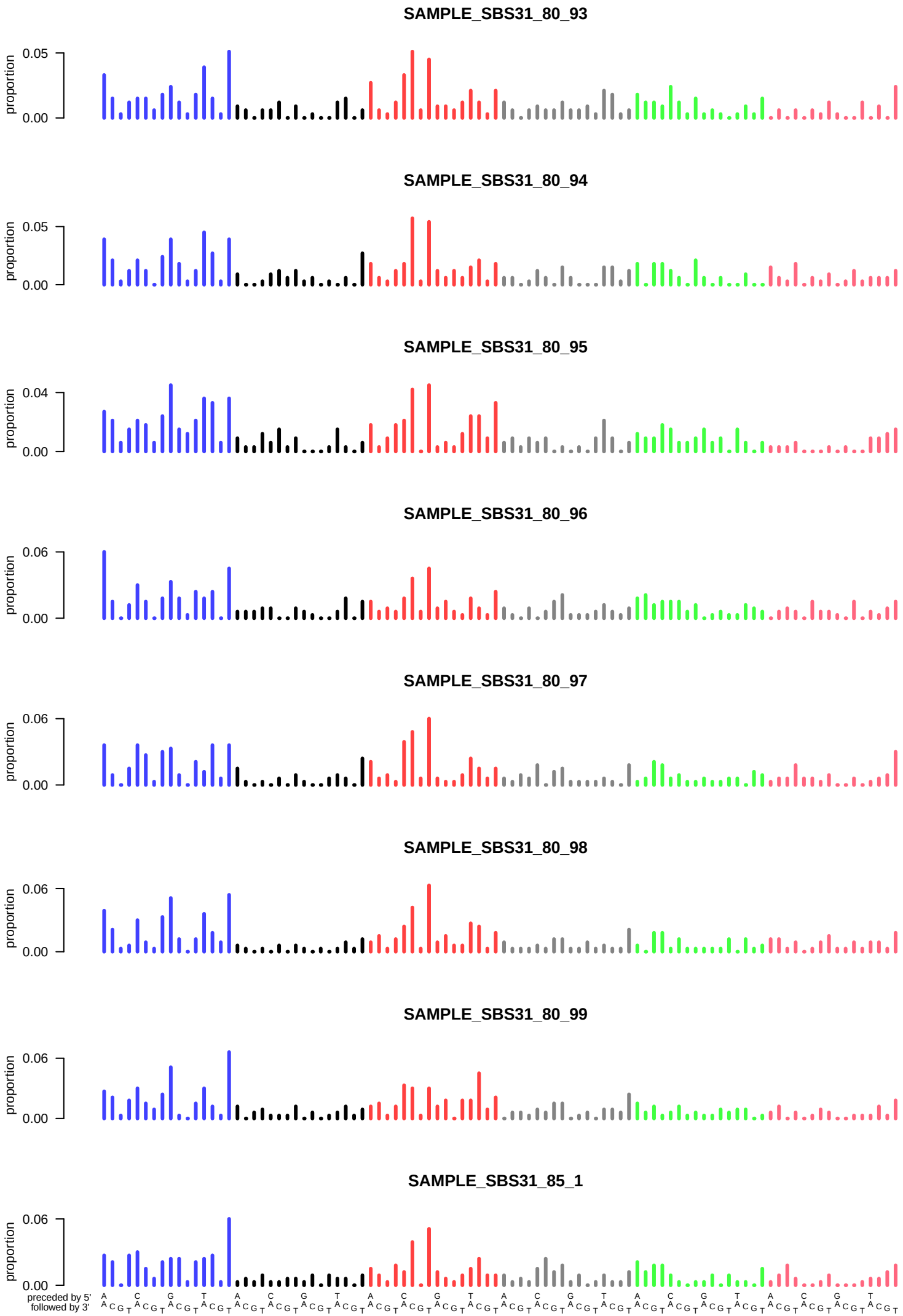
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followed by 3'
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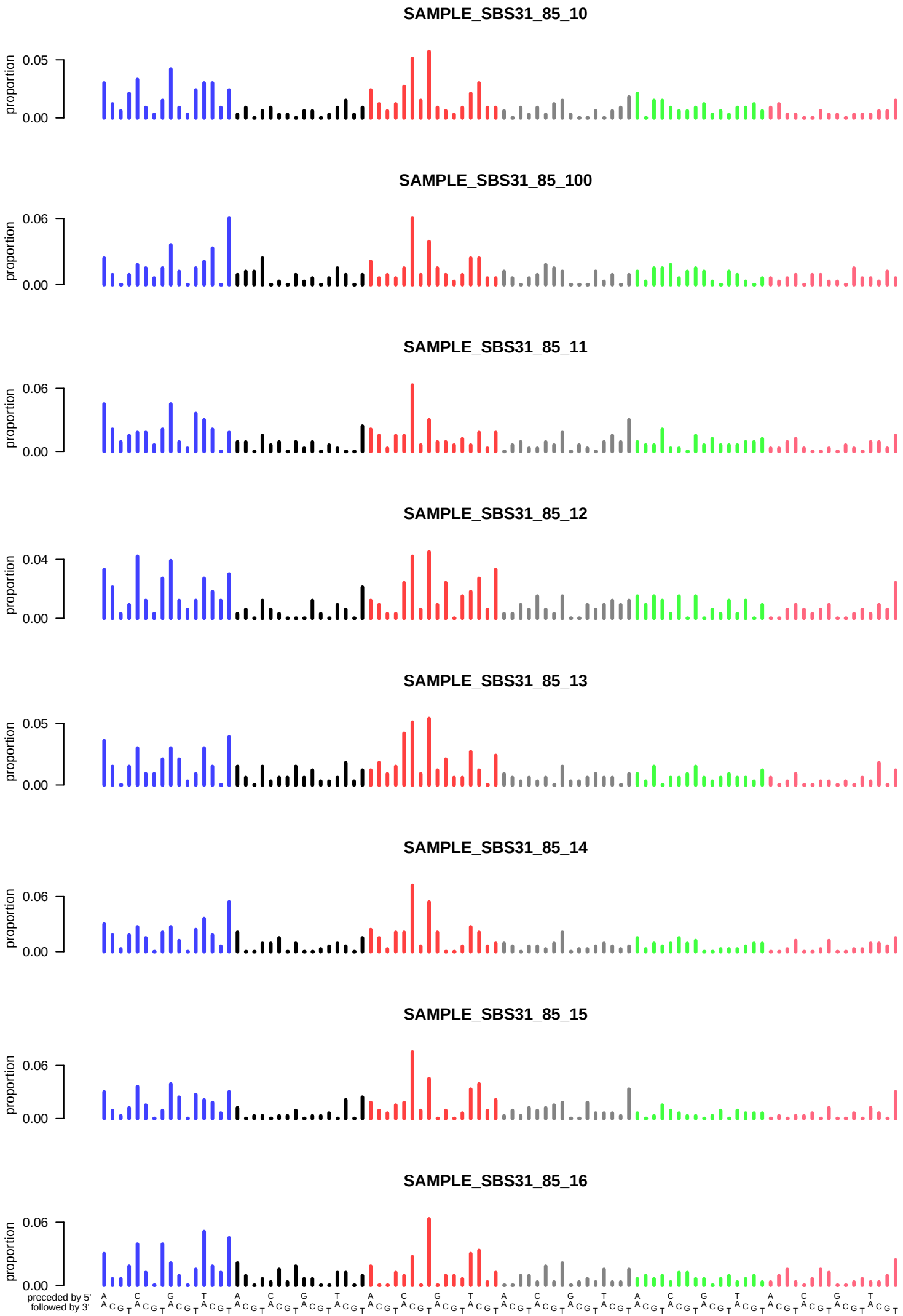
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followed by 3'
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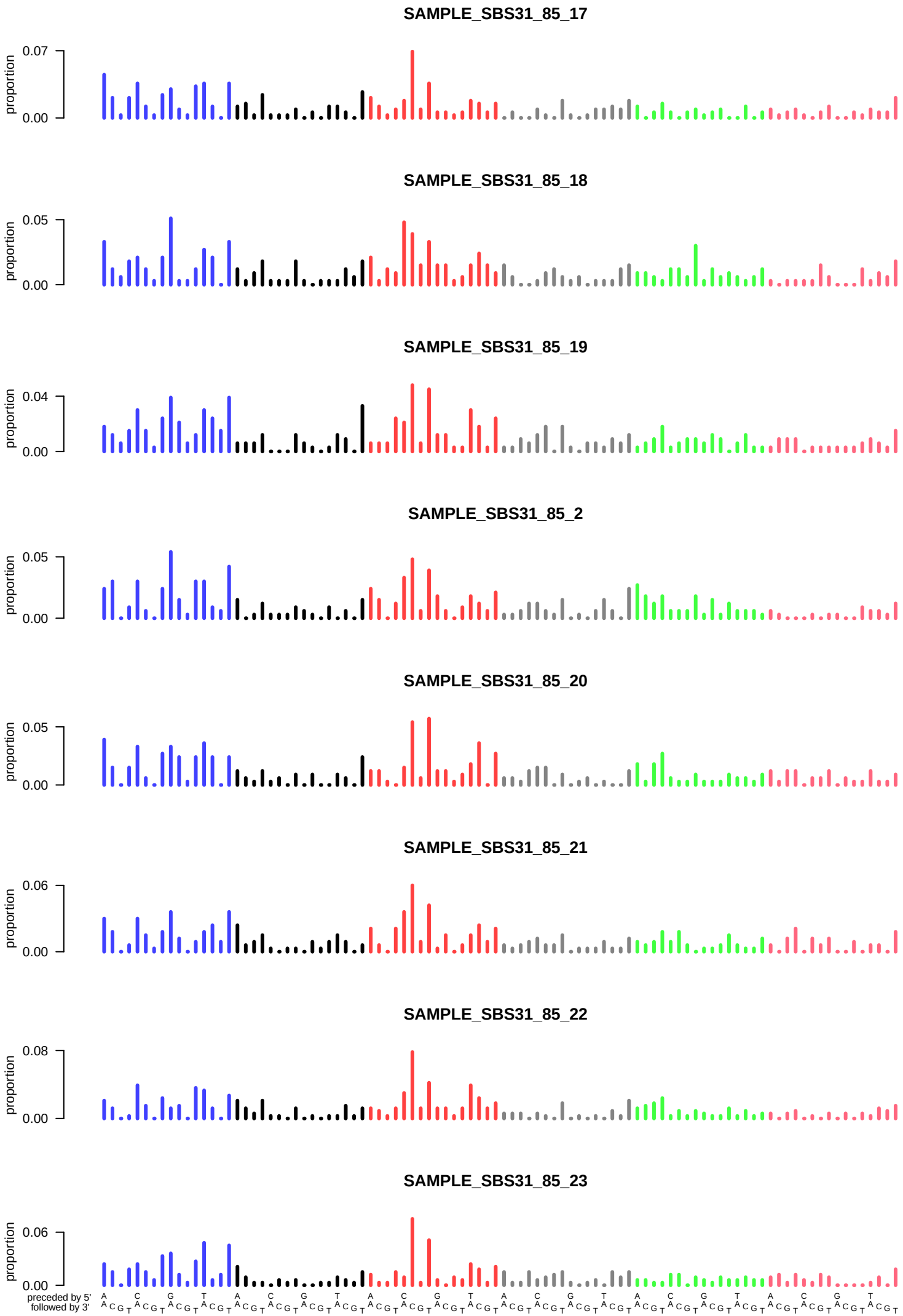
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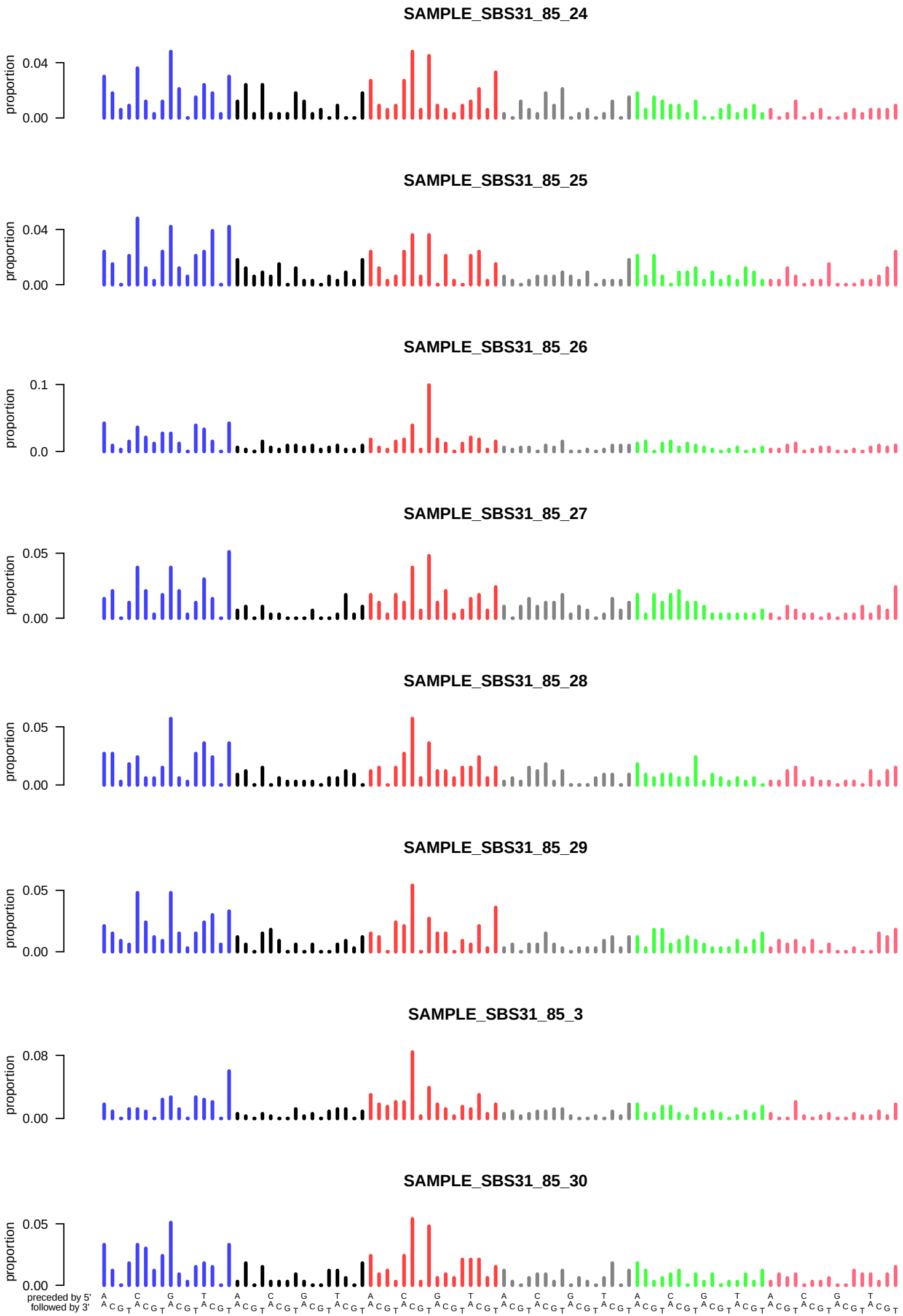
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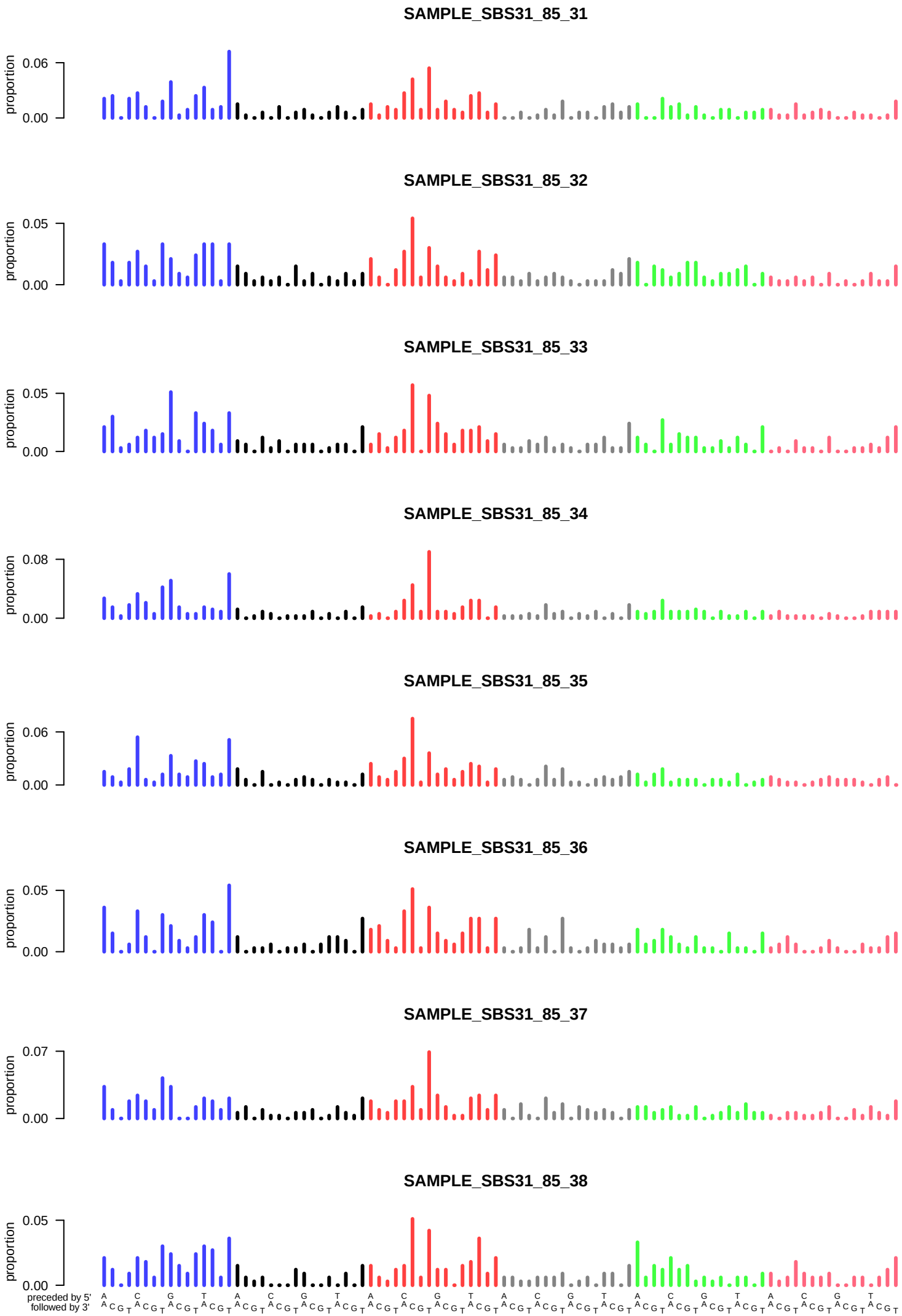
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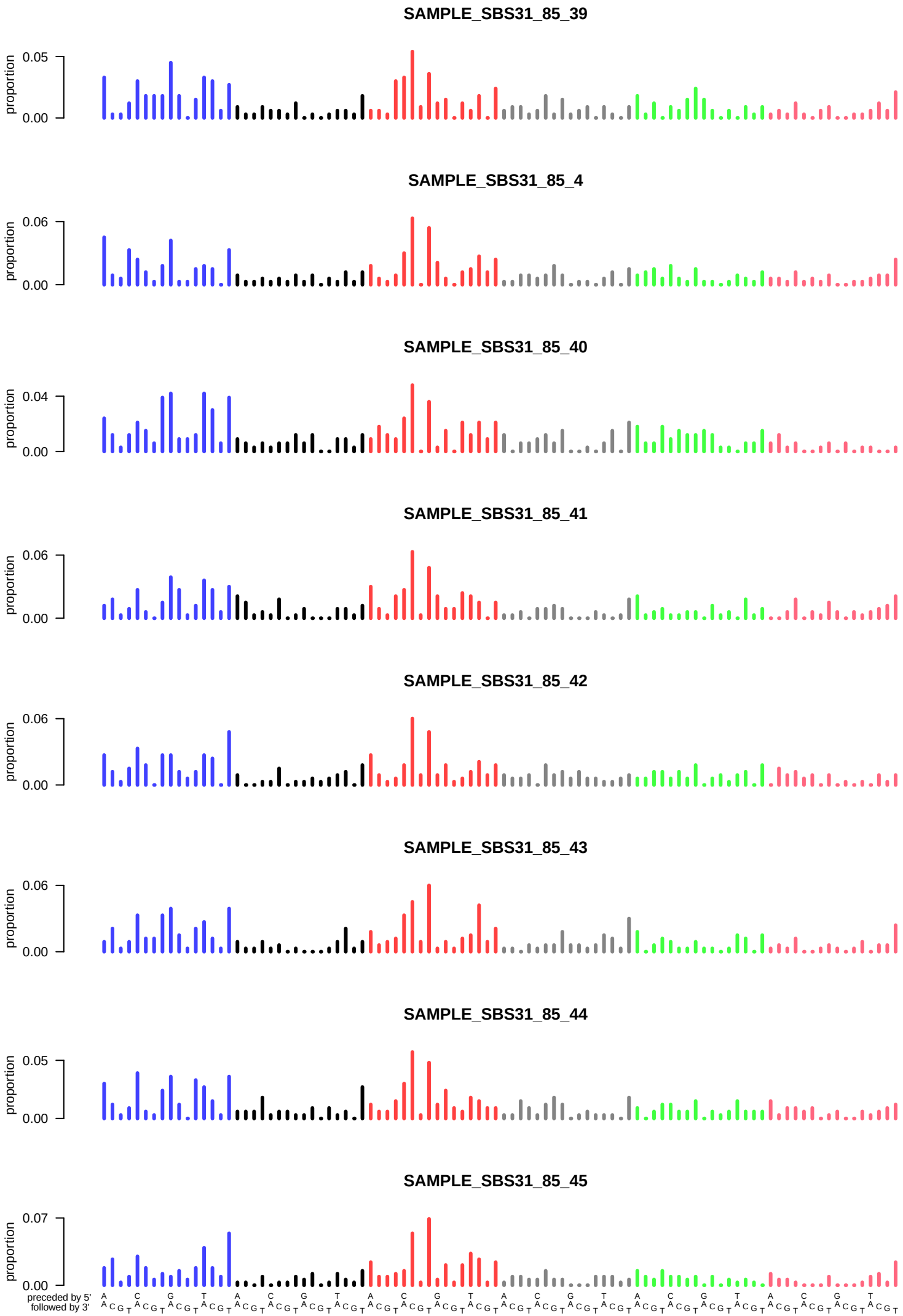
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SAMPLE_SBS31_85_44
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followed by 3'
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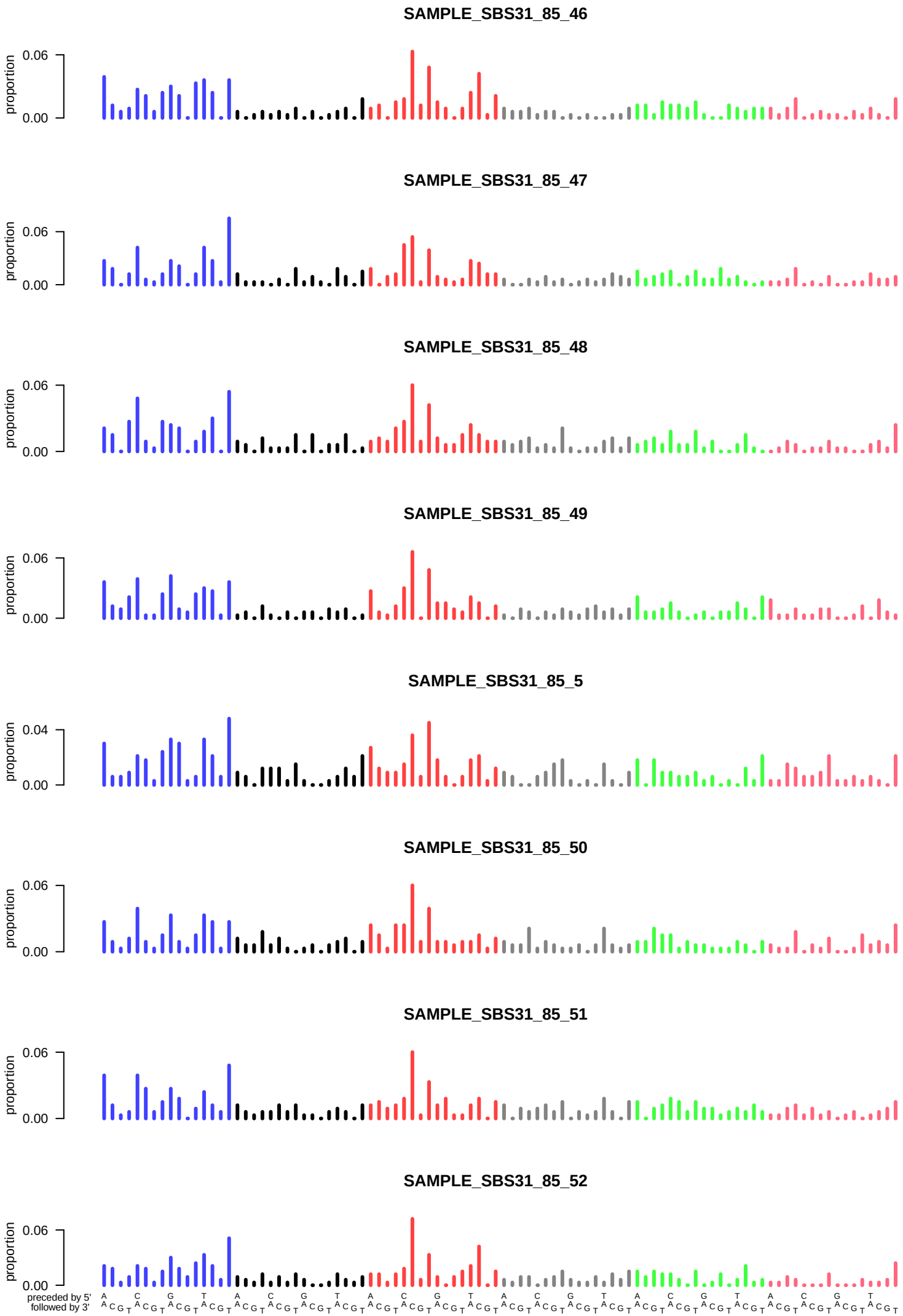
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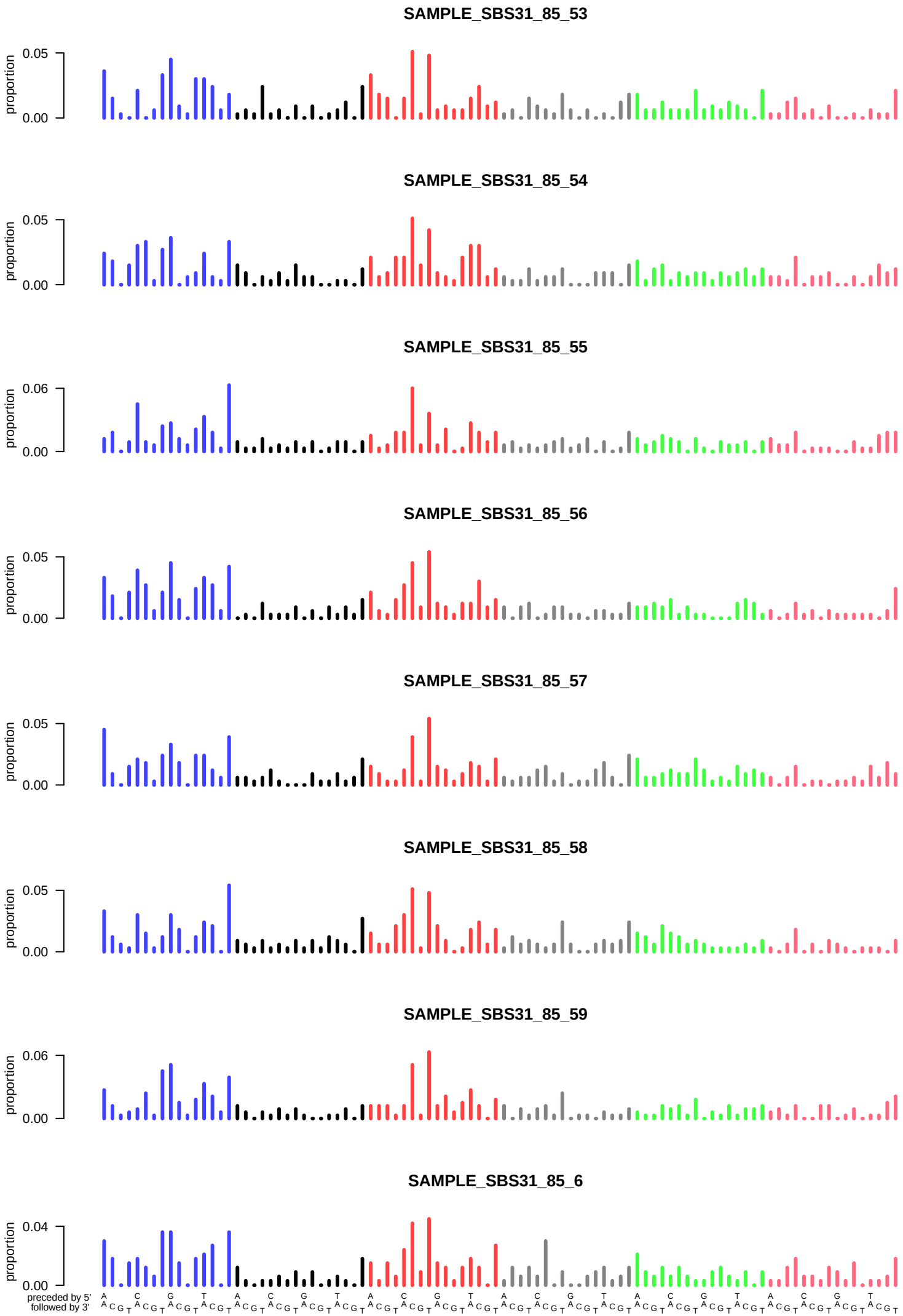
followed by 3'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followed by 3'
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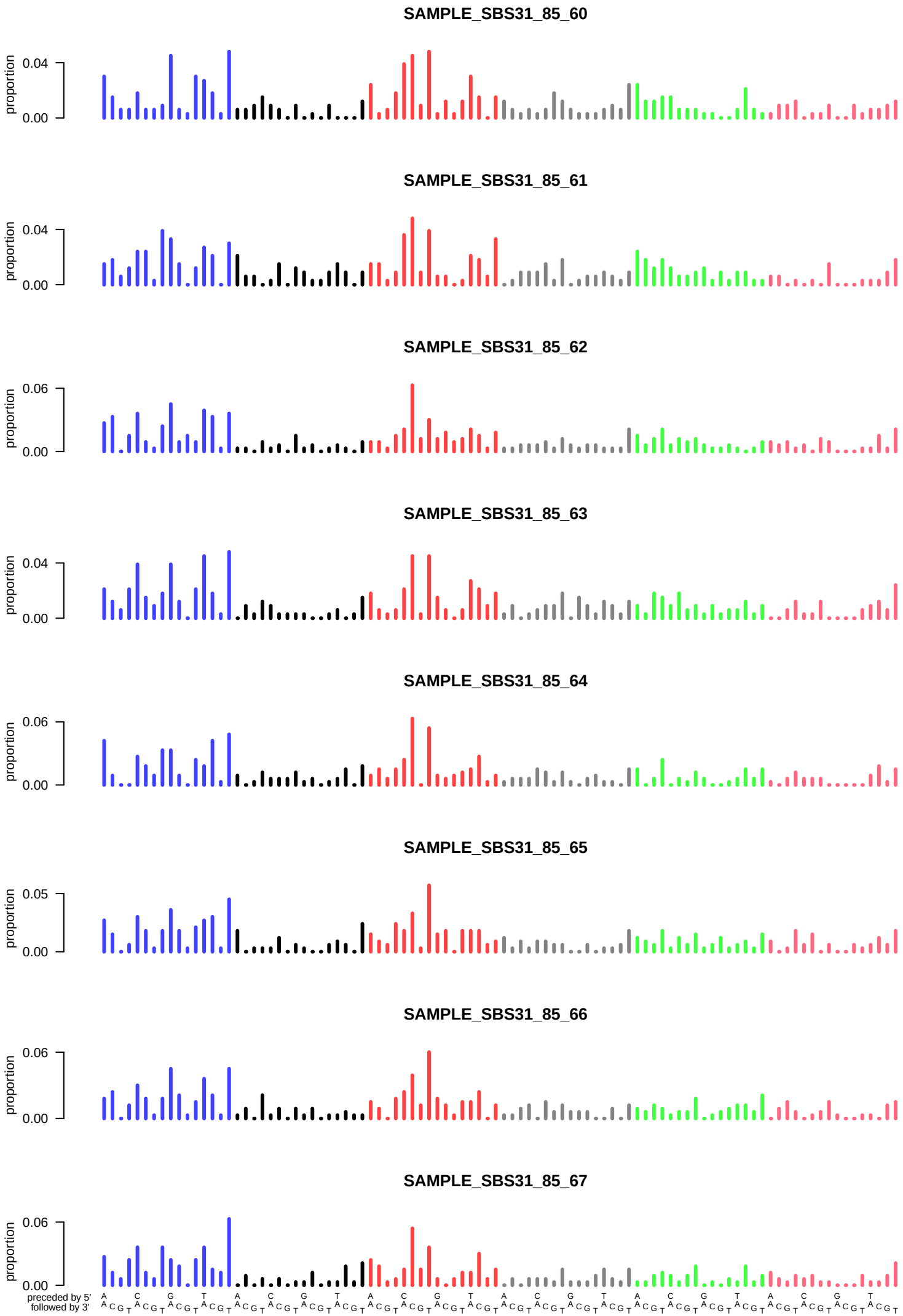
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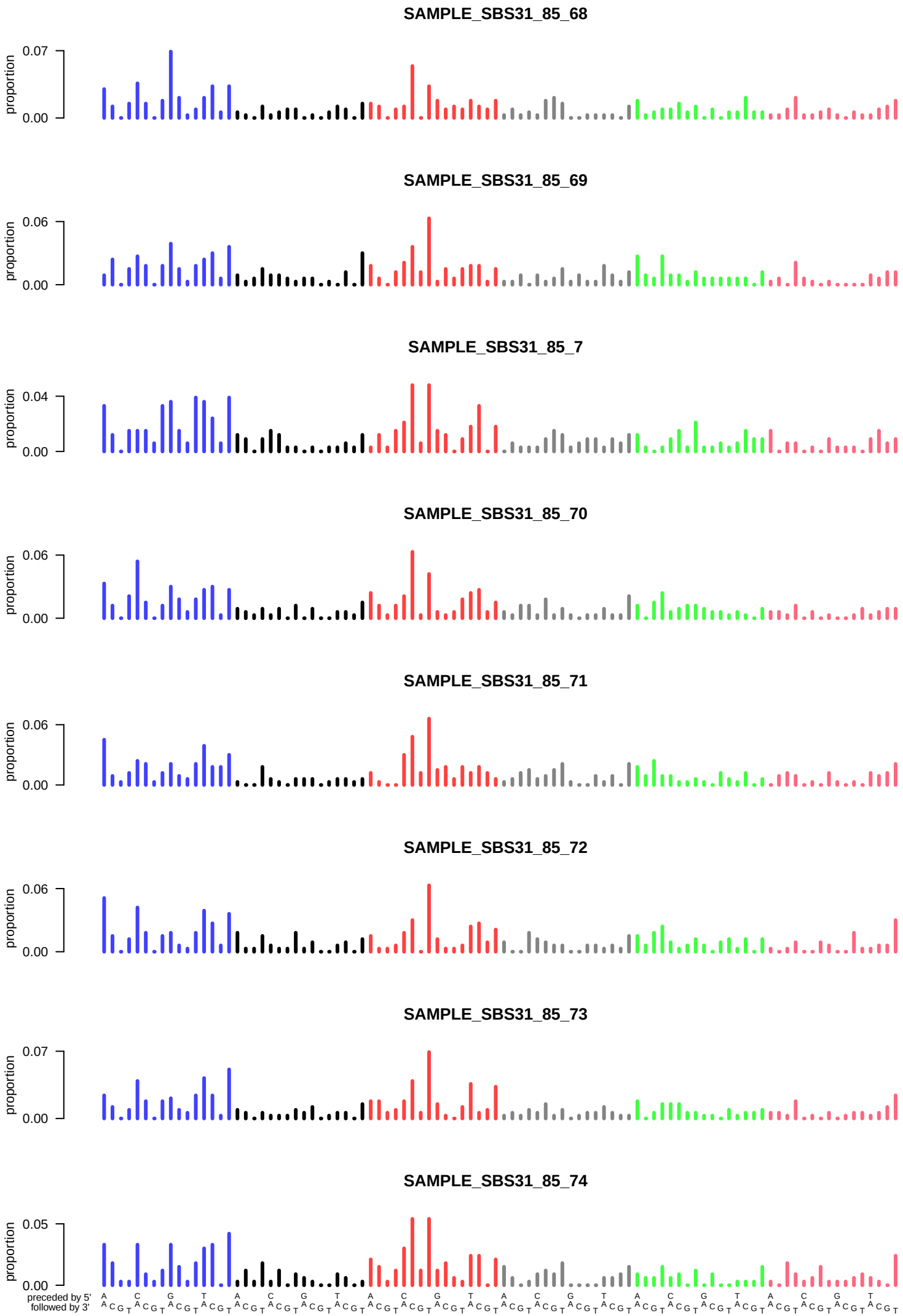
followed by 3'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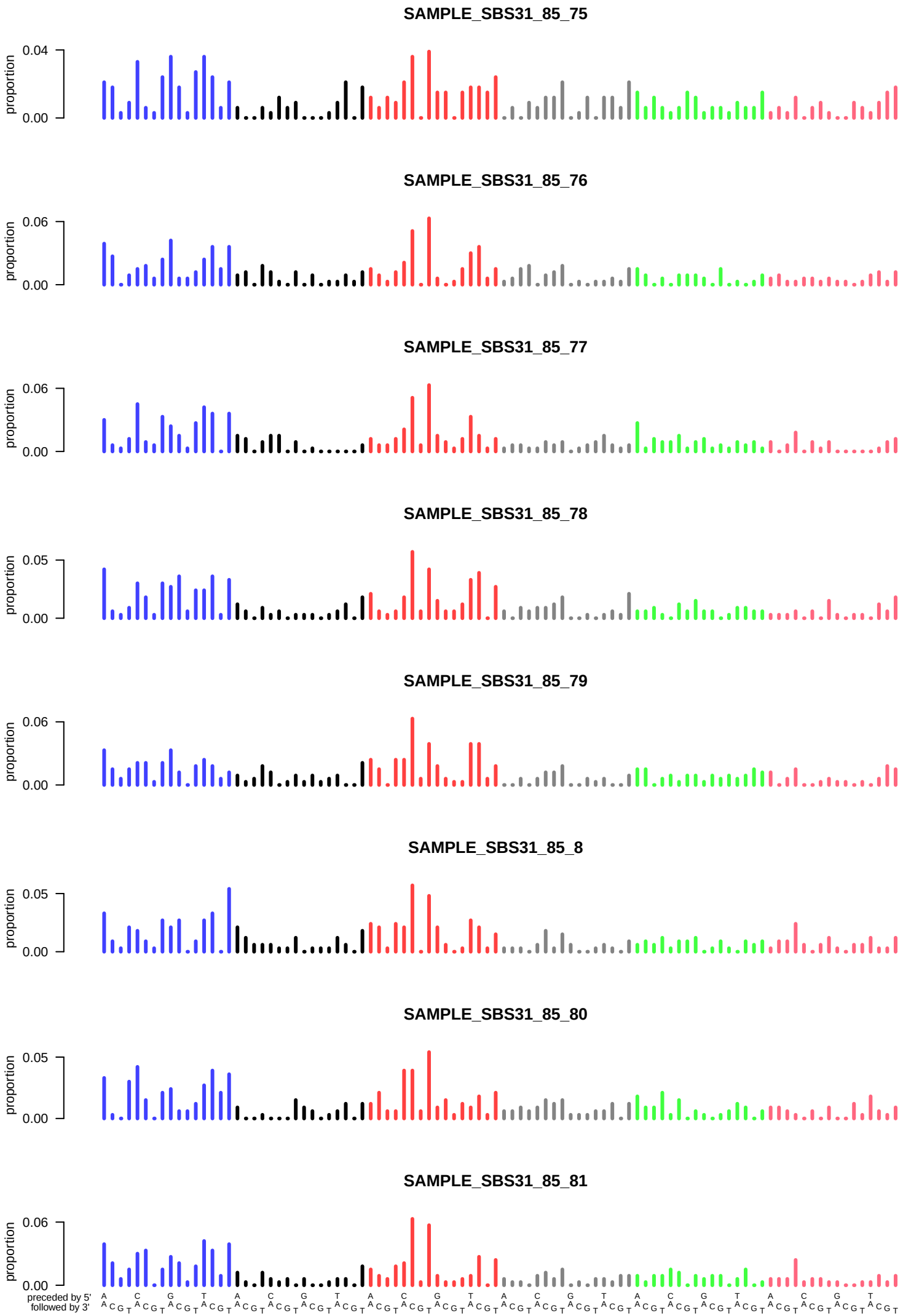
preceded by 5'
followed by 3'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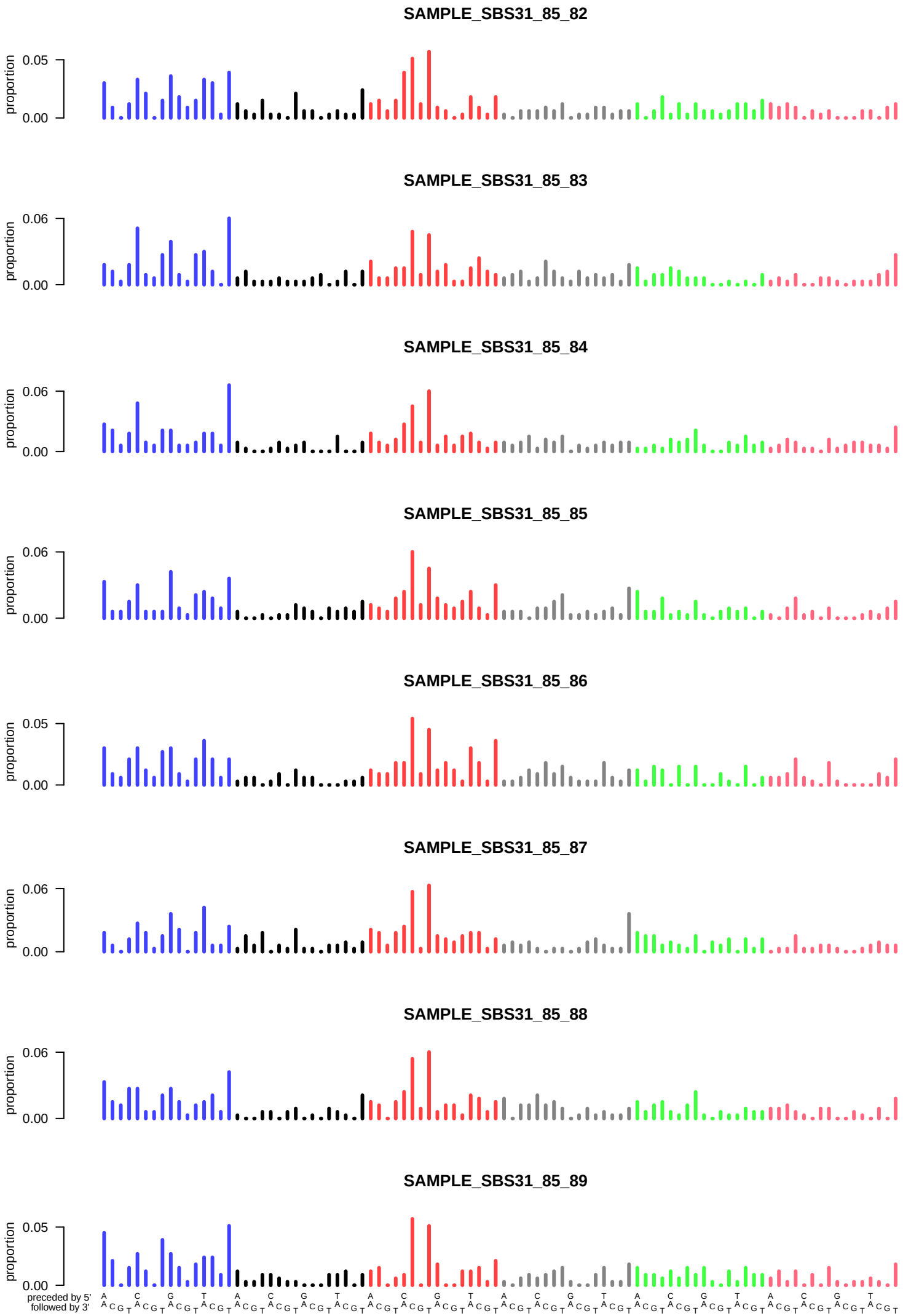
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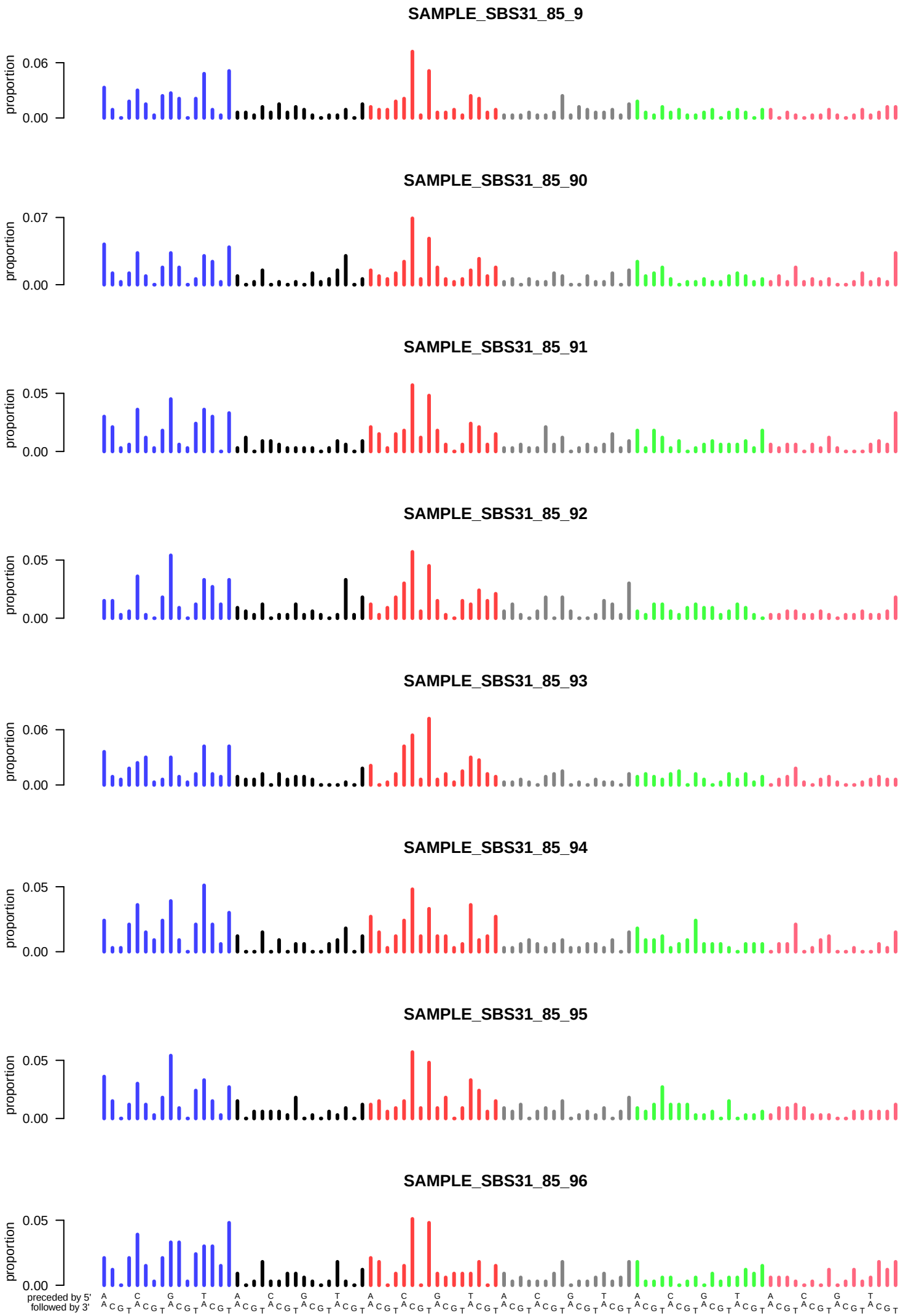
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followed by 3'
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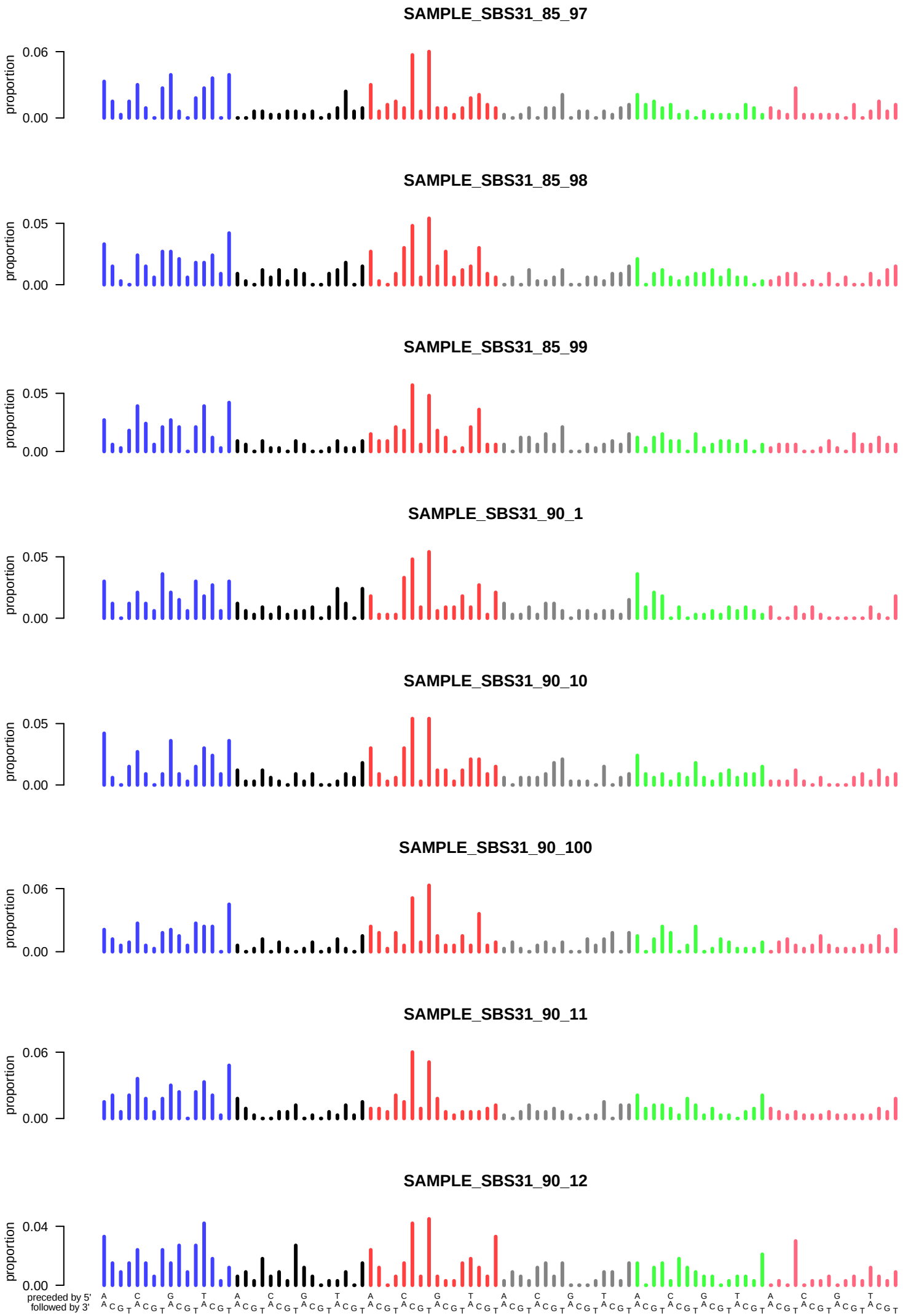
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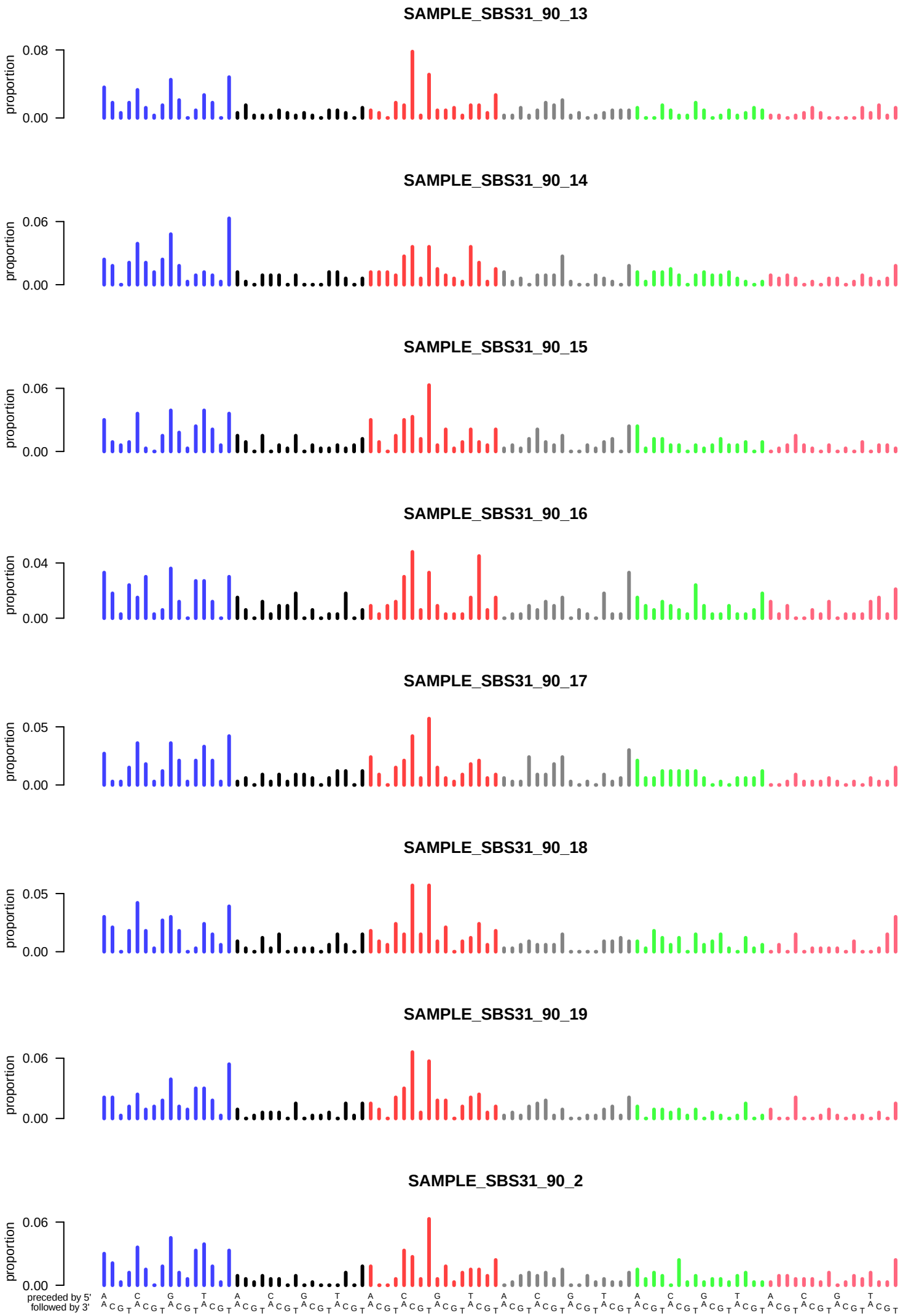
followed by 3'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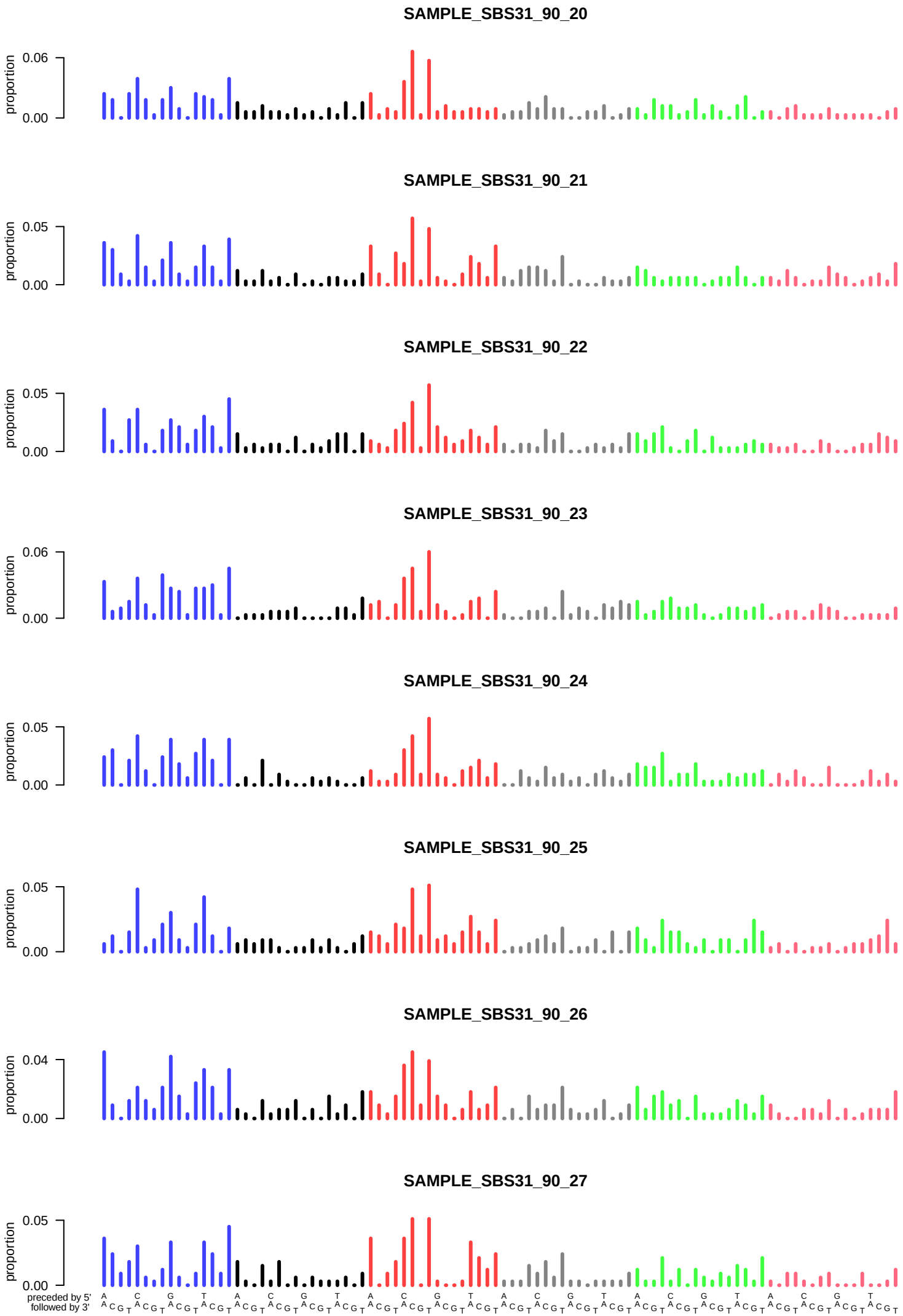
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followed by 3'
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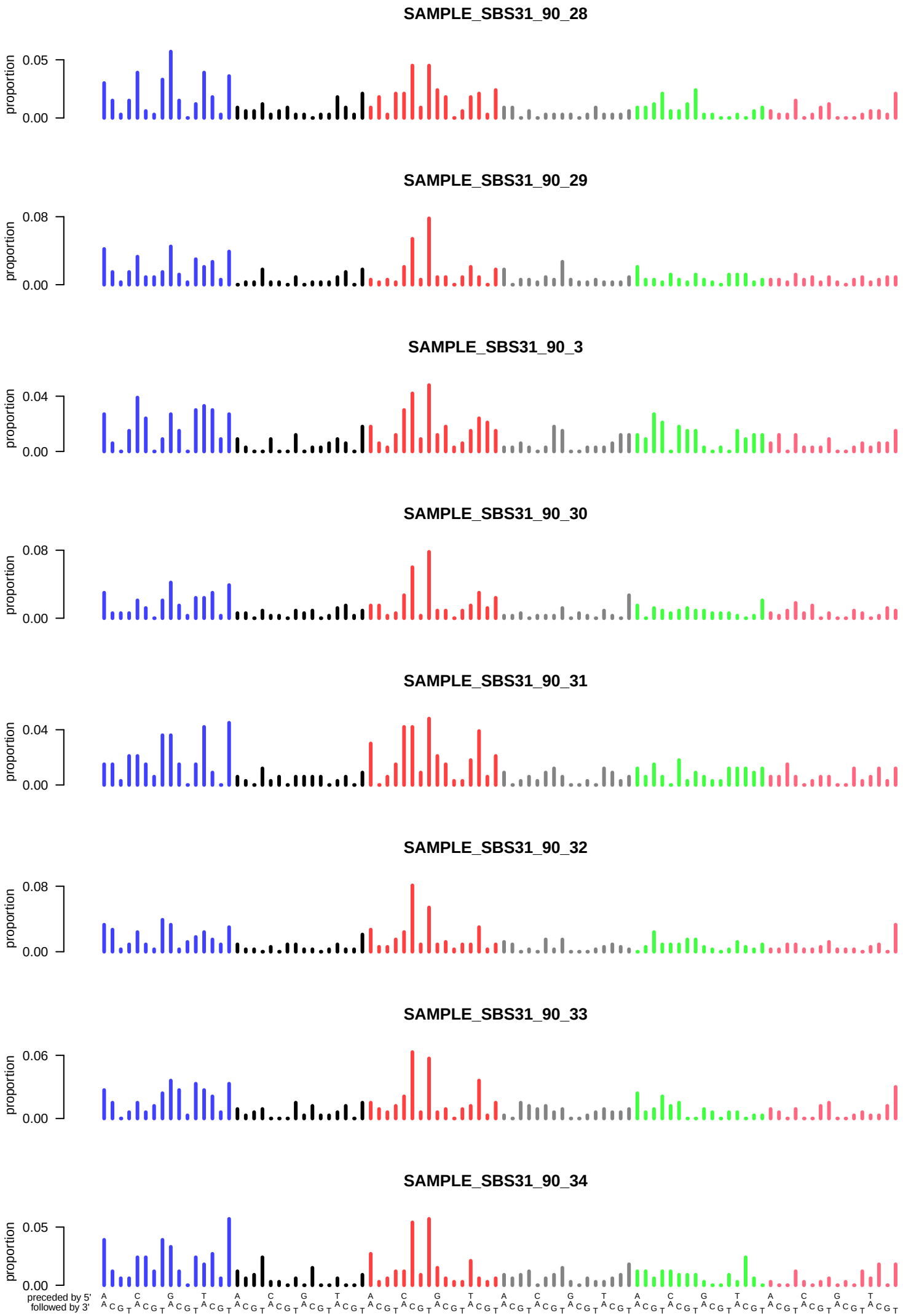
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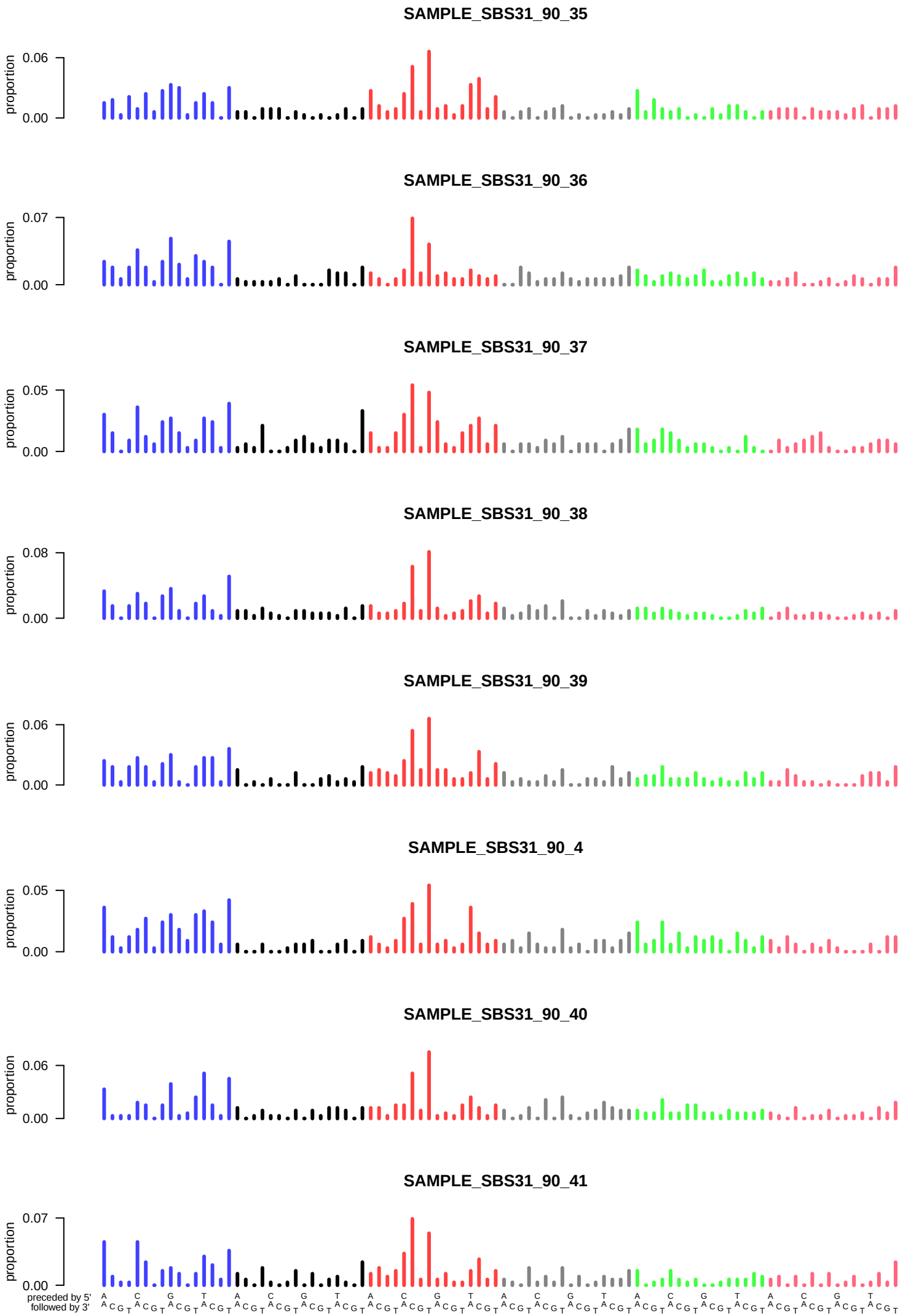
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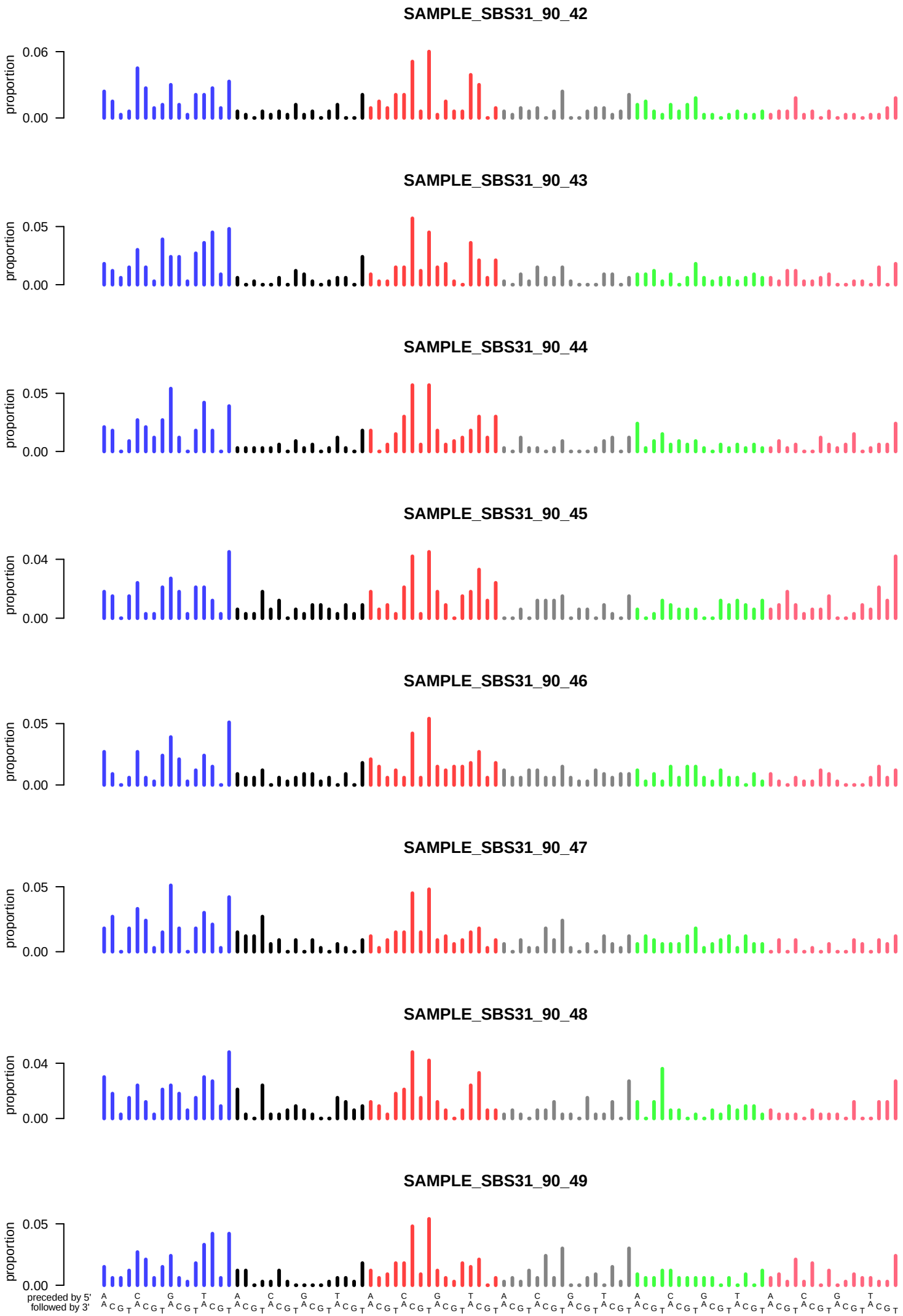
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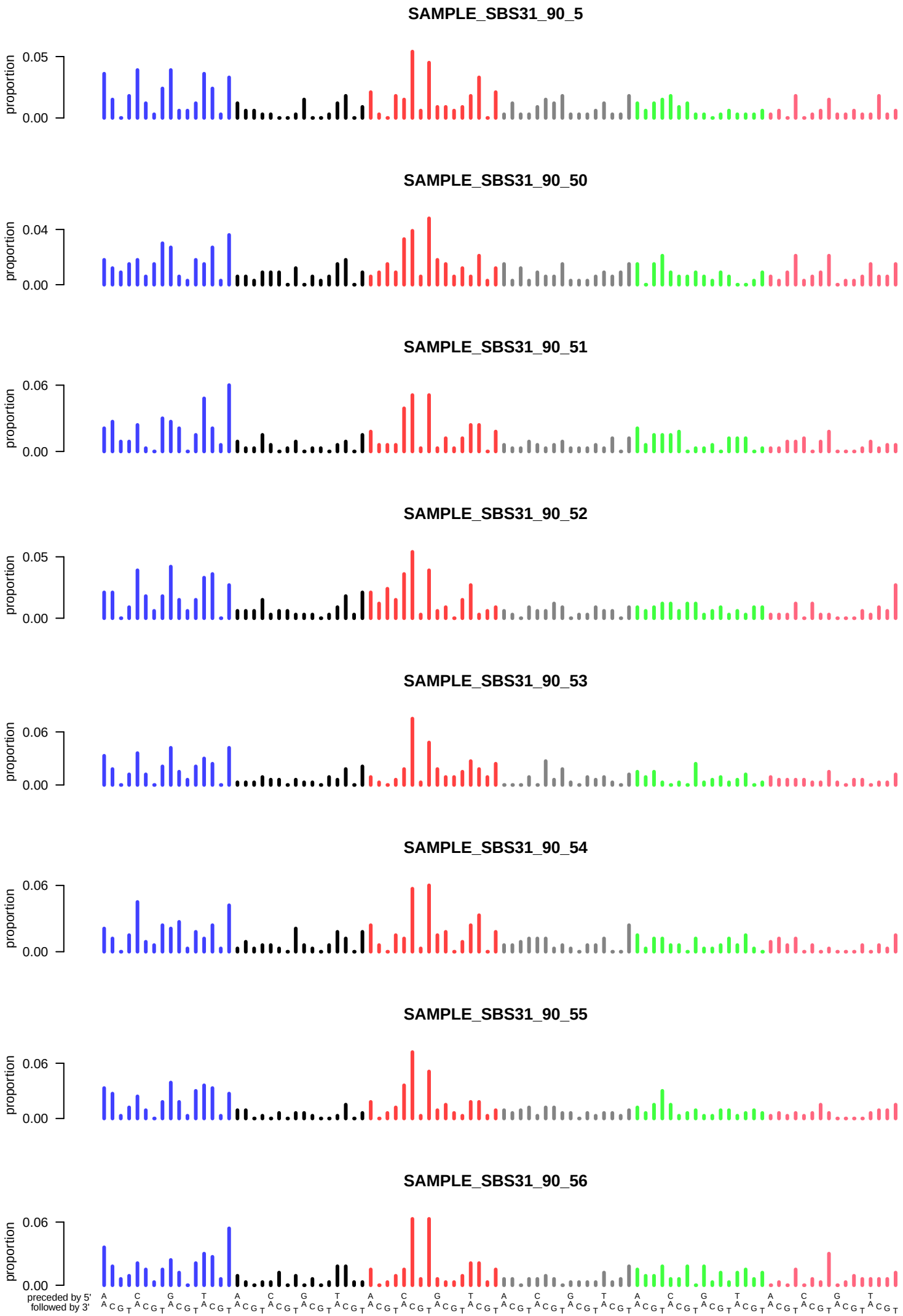
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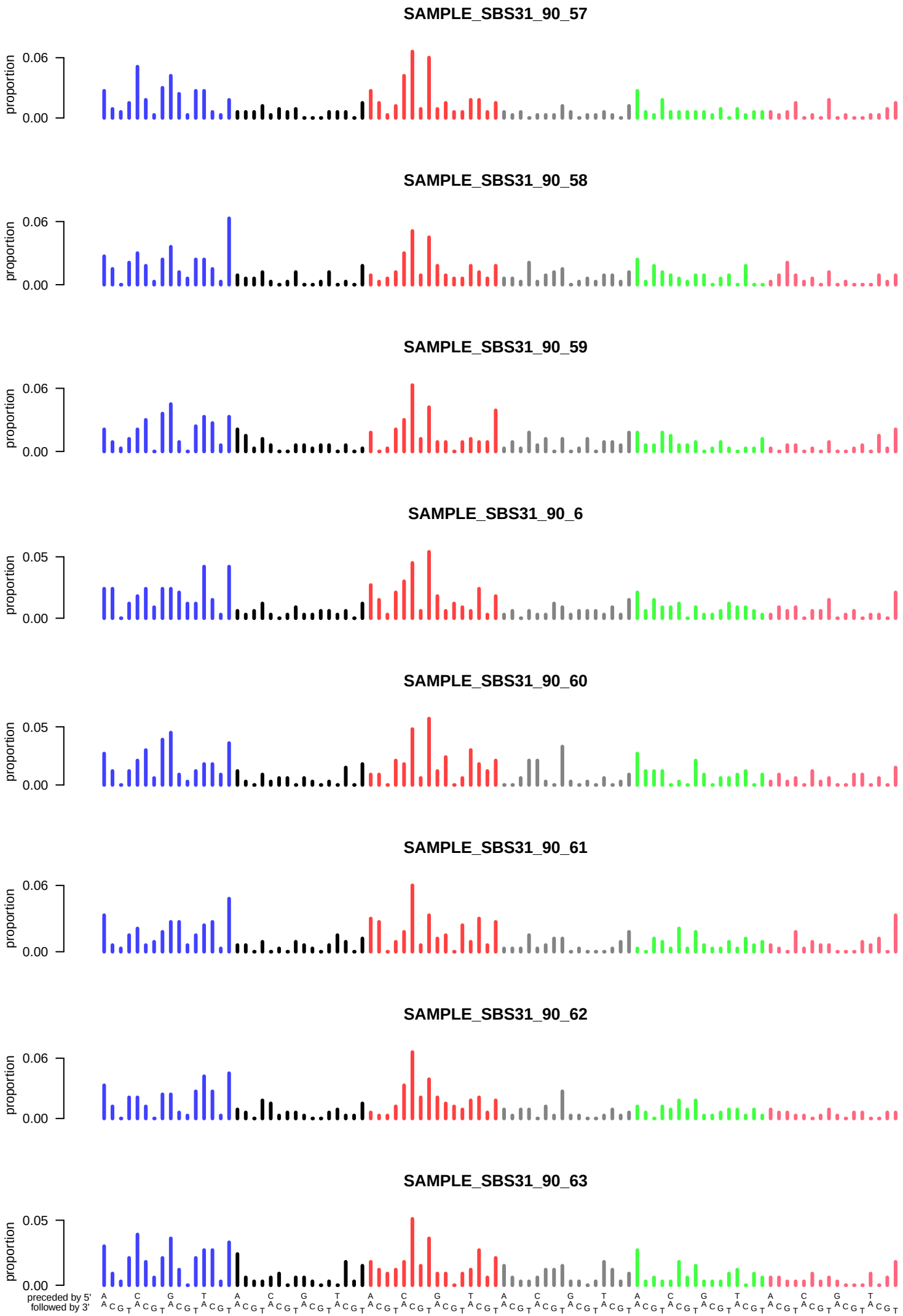
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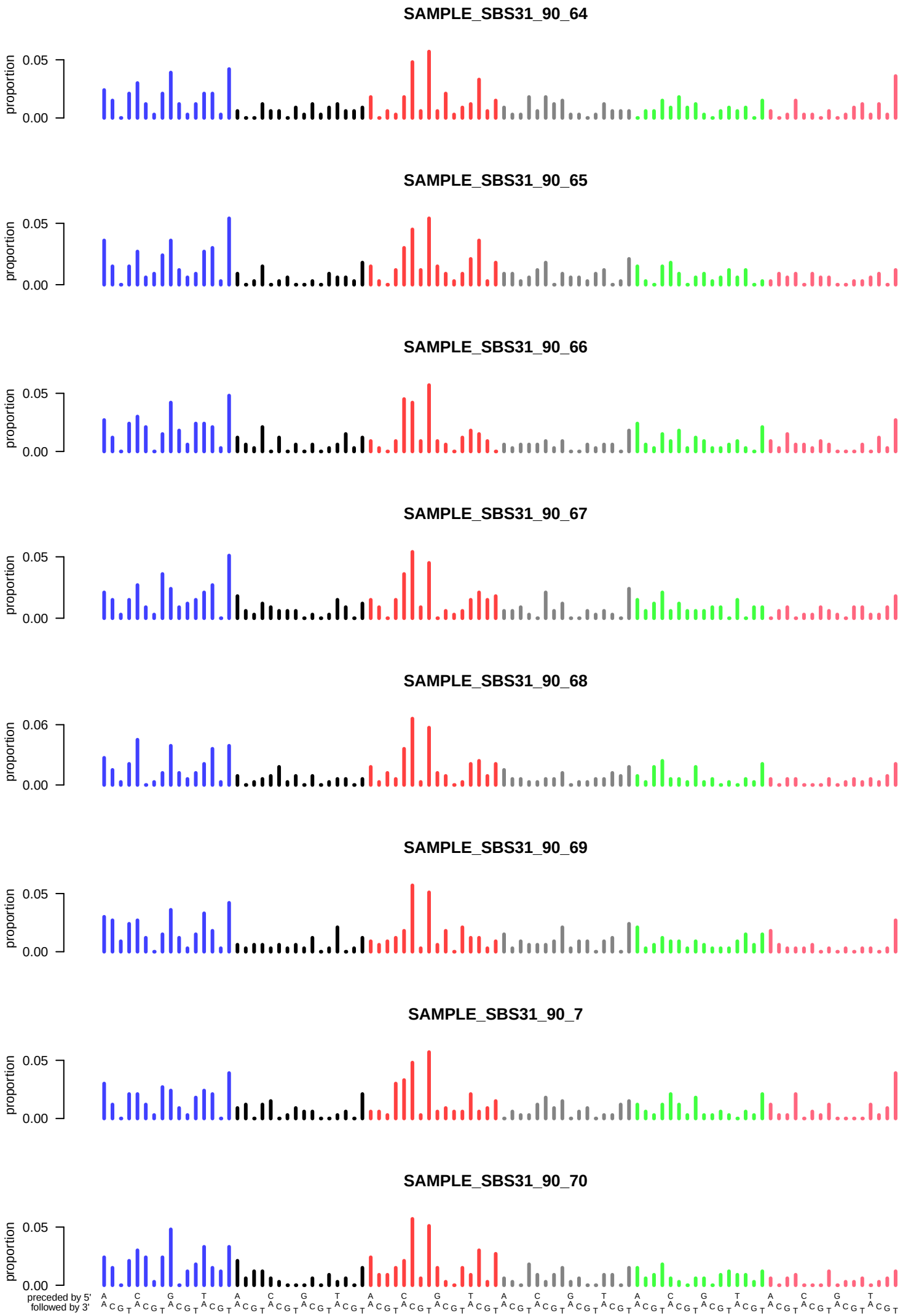
followed by 3'
A C G T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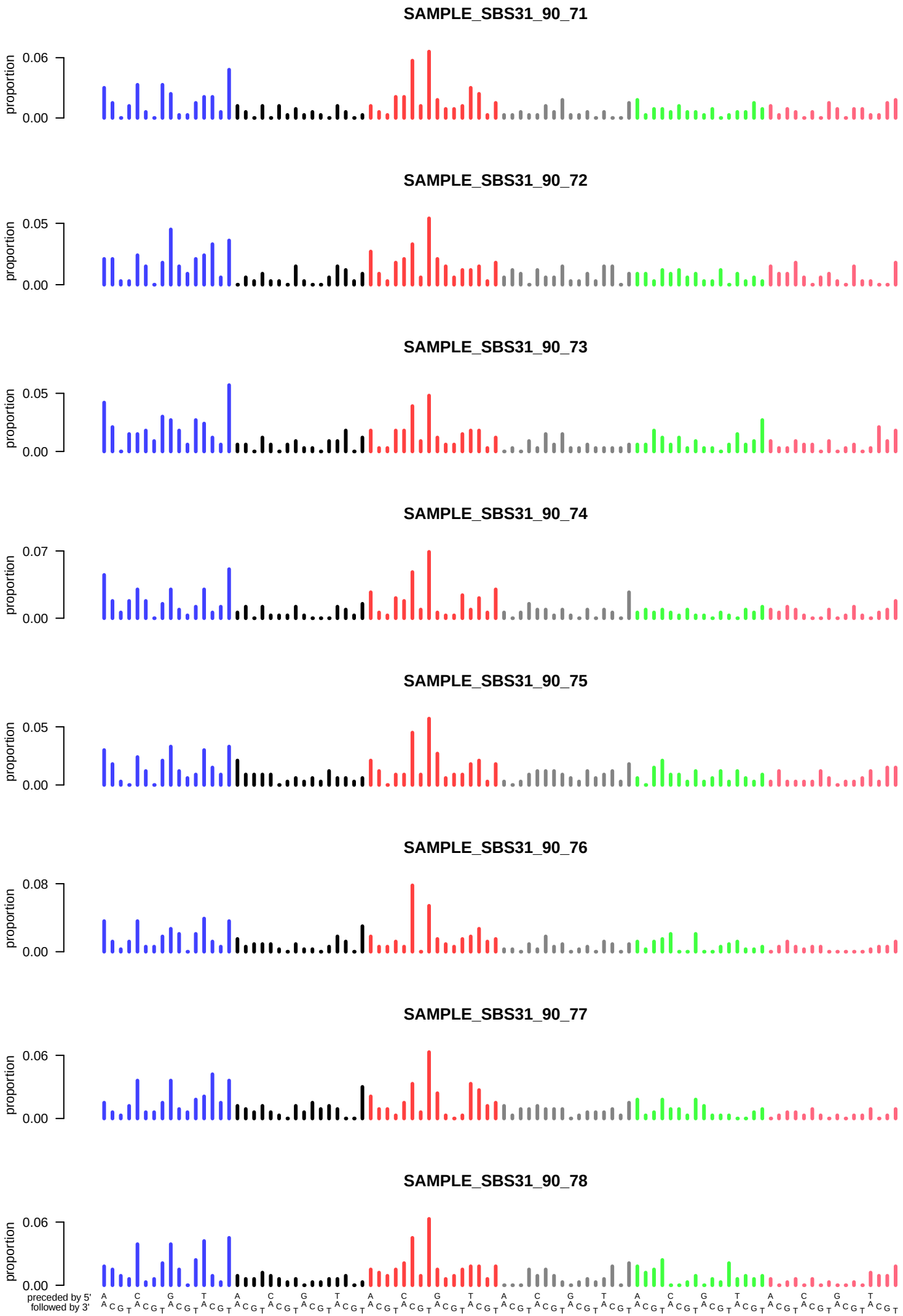
followed by 3'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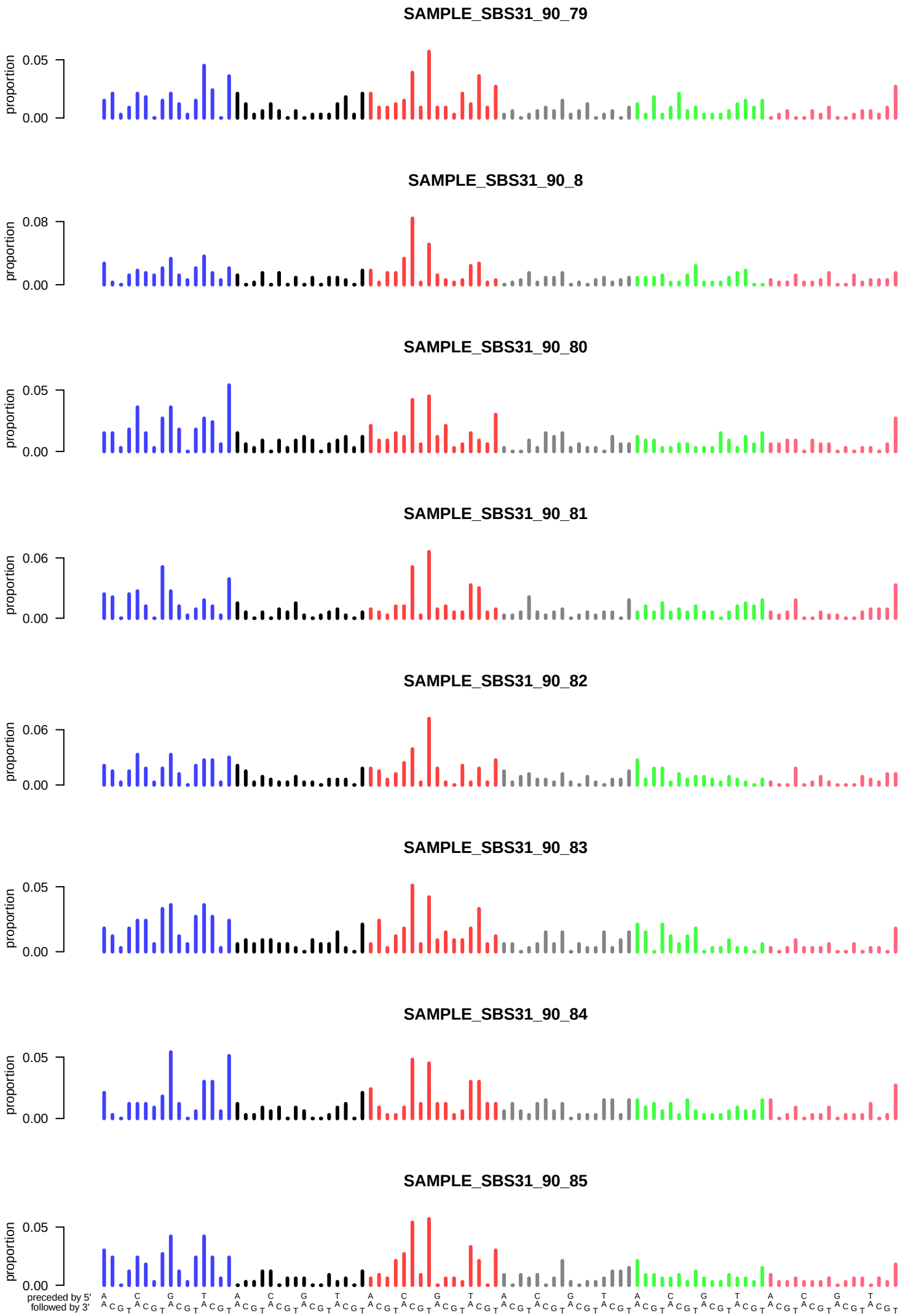
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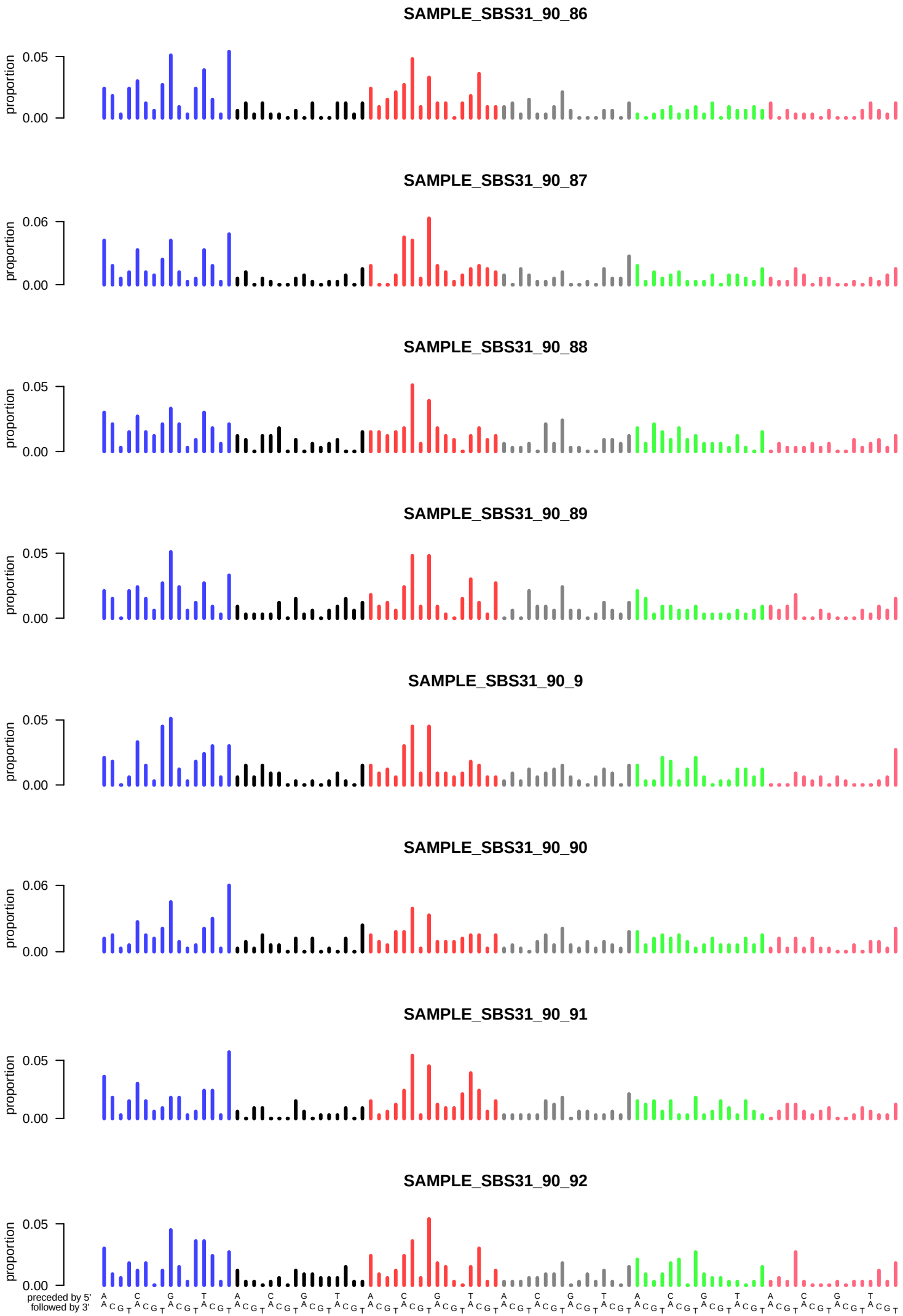
preceded by 5'
followed by 3'
A C G T A C G T A C G T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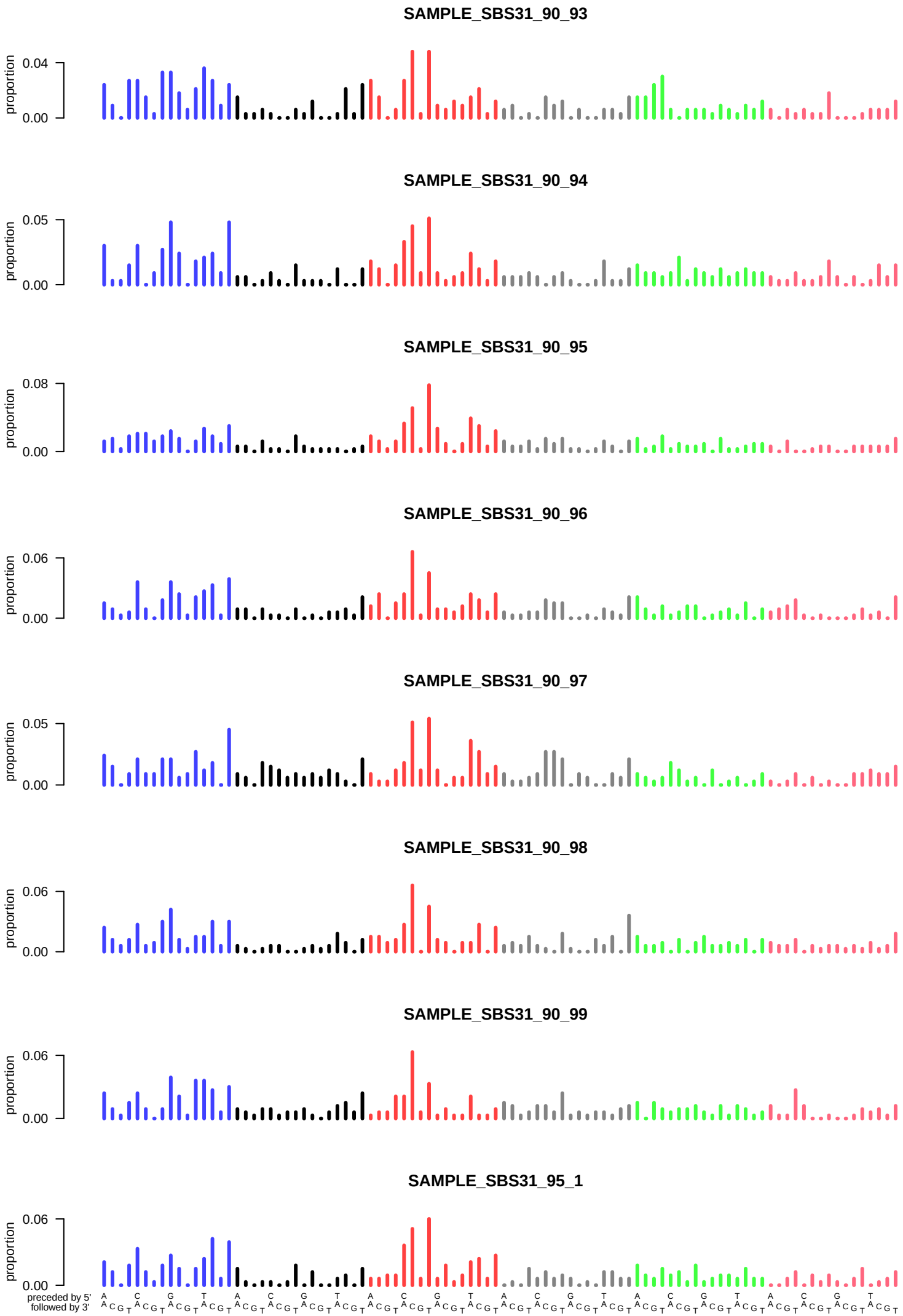
followed by 3'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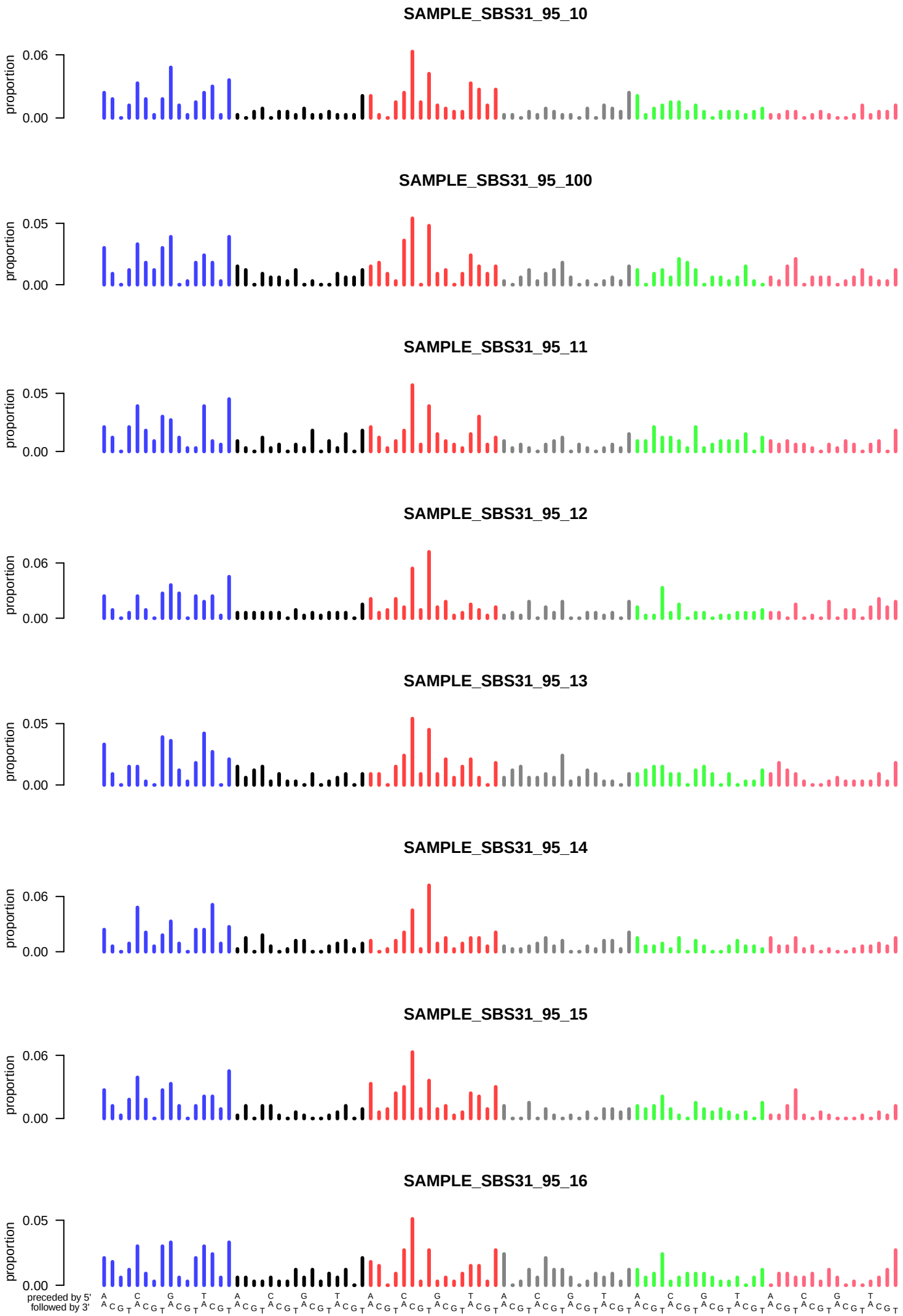
followed by 3'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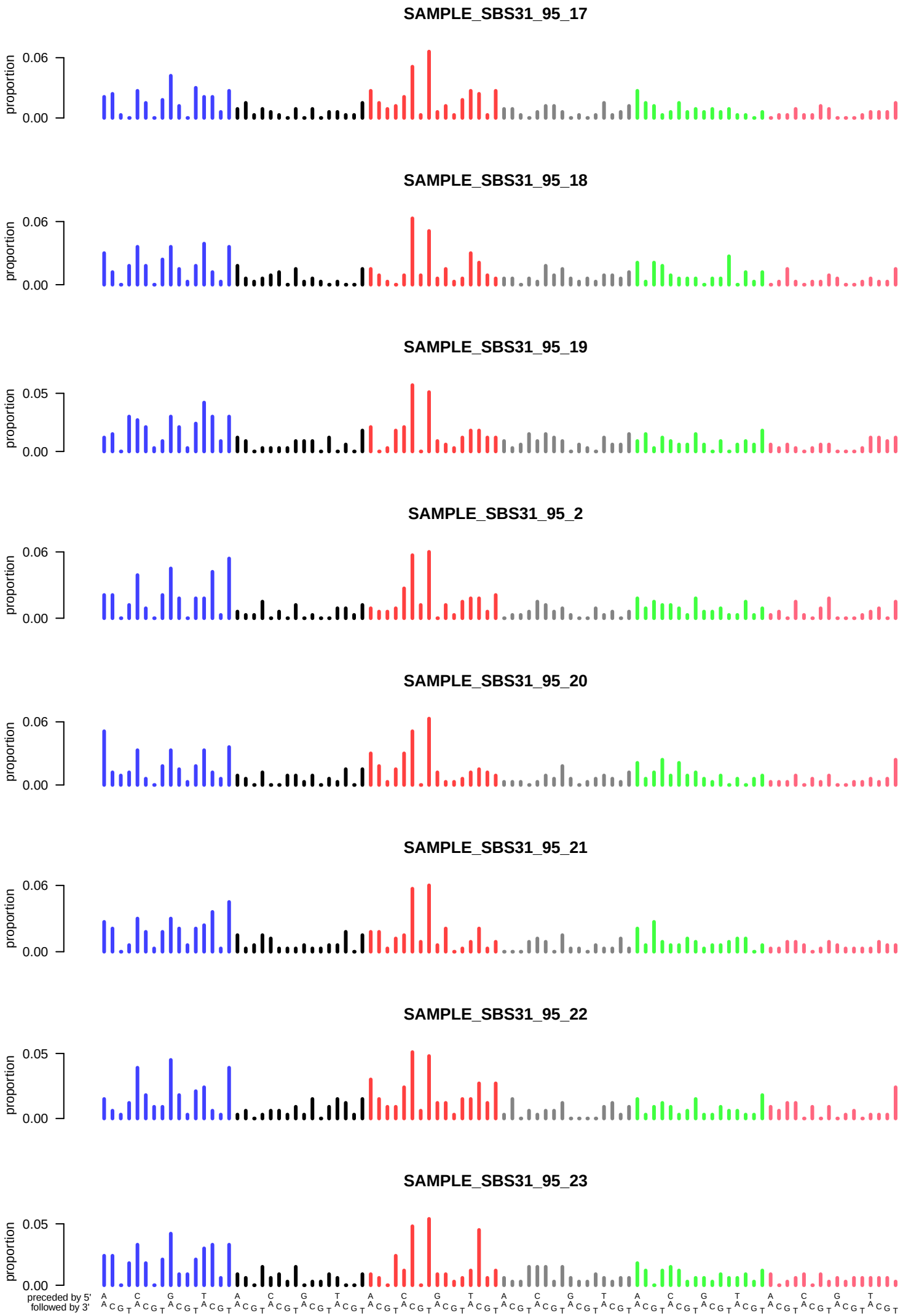
followed by 3'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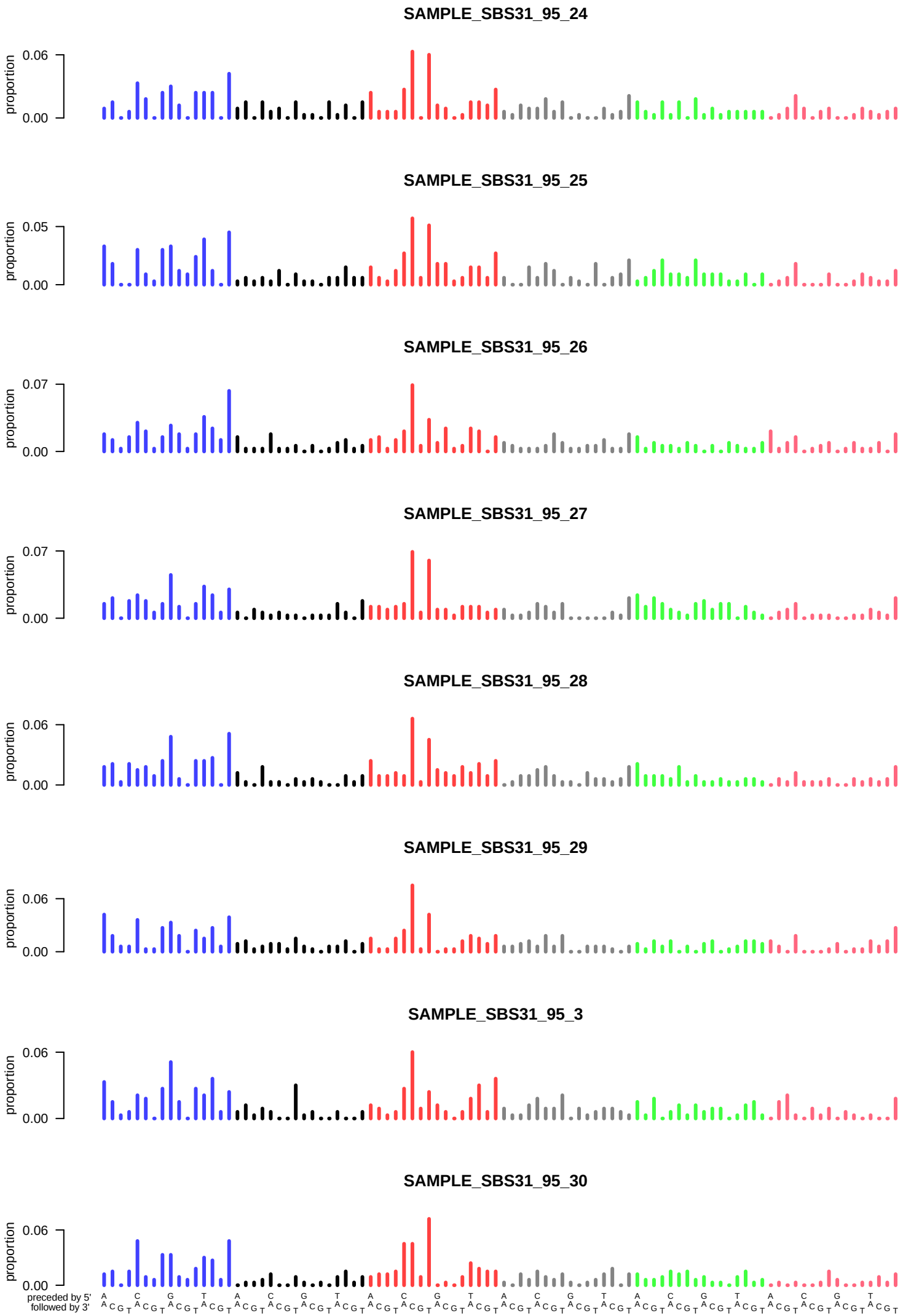
followed by 3'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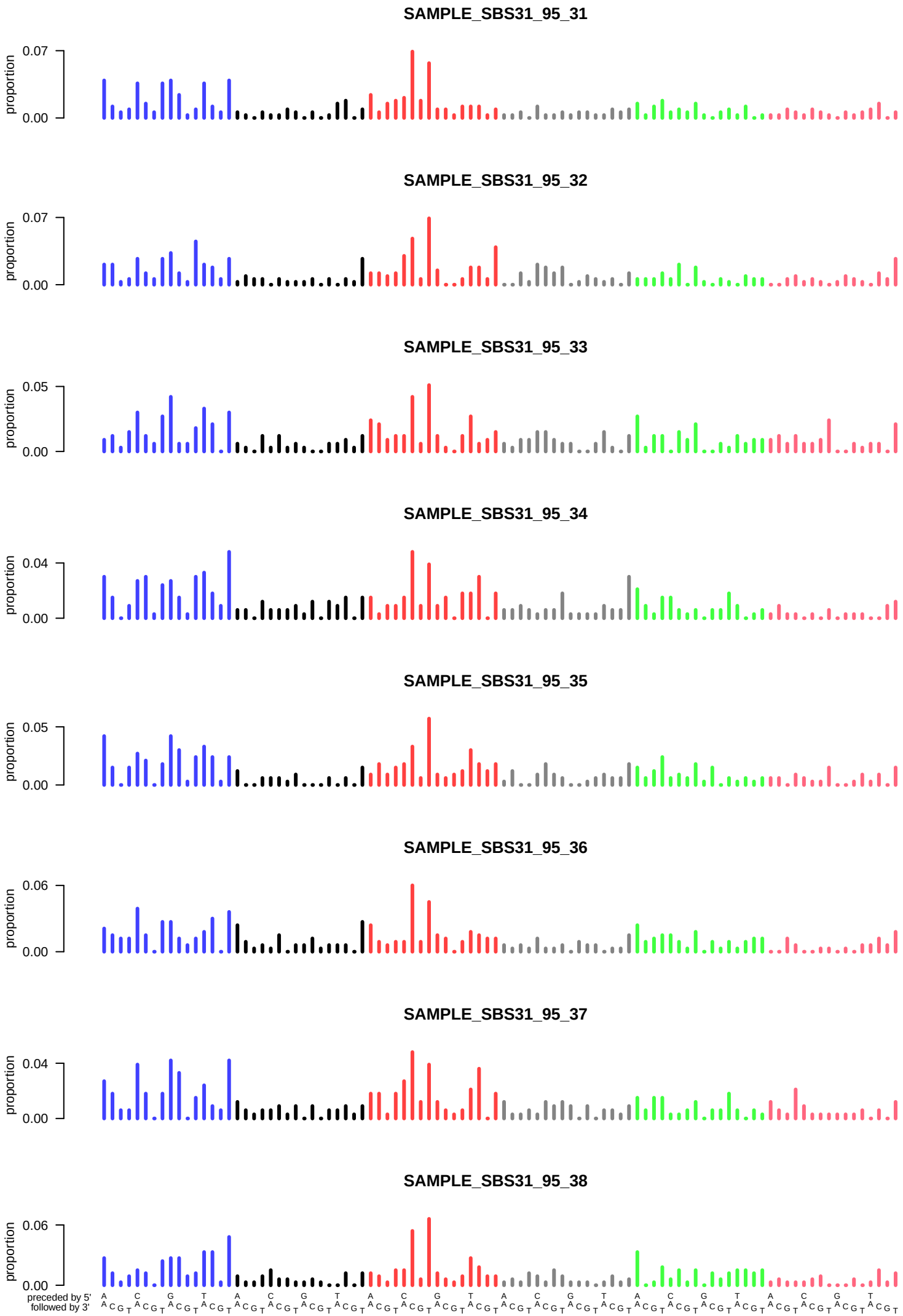
followed by 3'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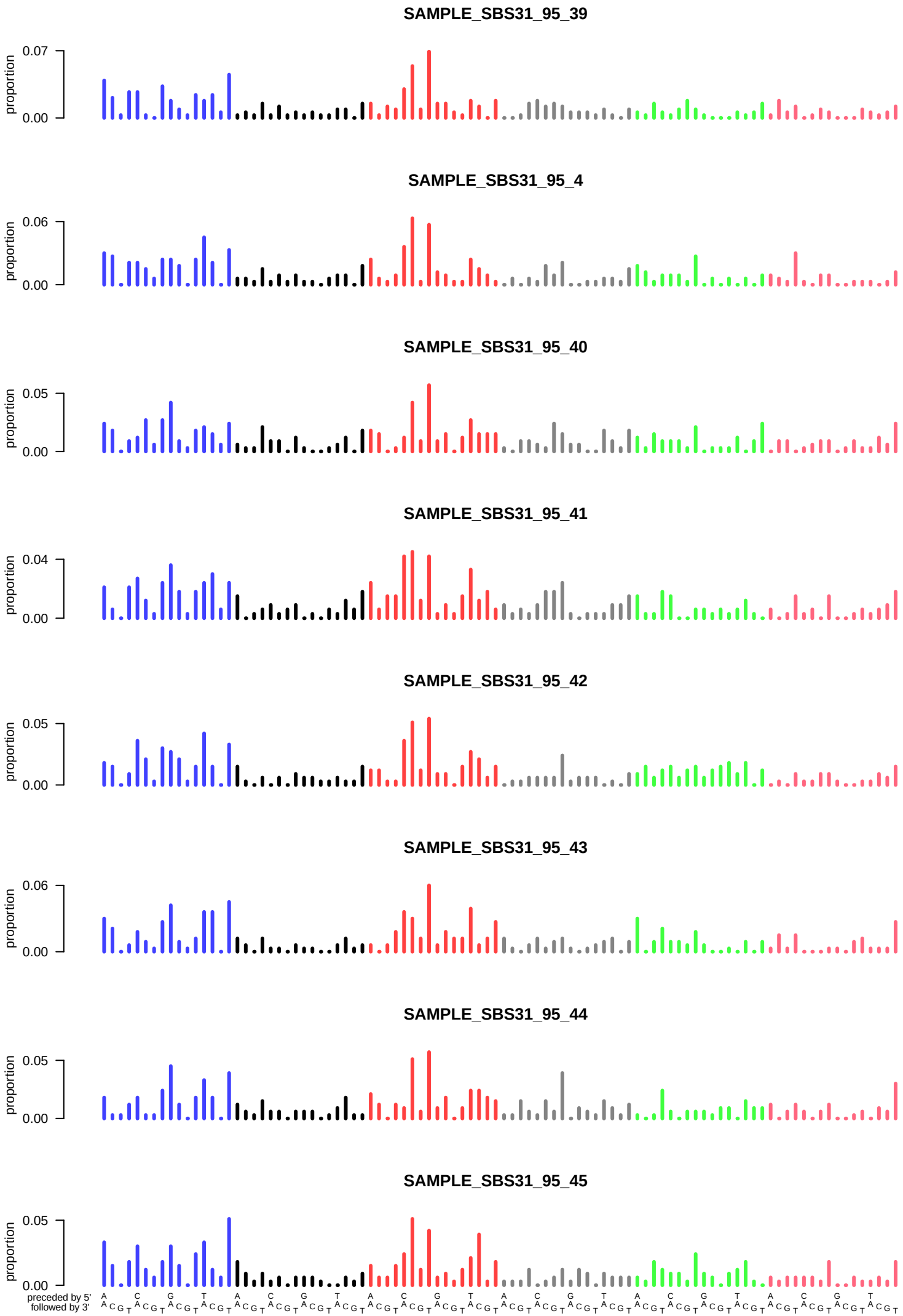
followed by 3'
A C G T A C G T A C G T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followed by 3'
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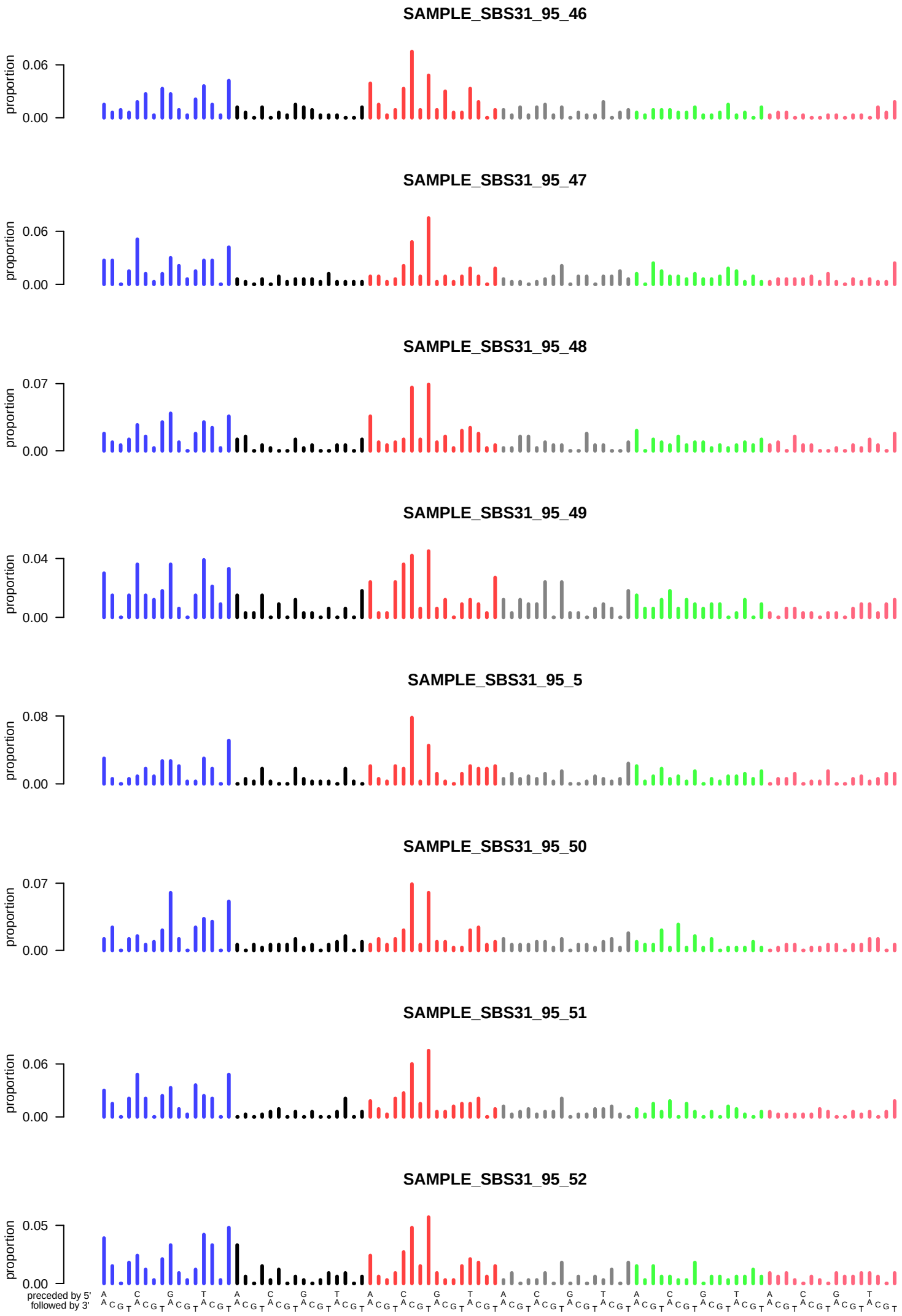
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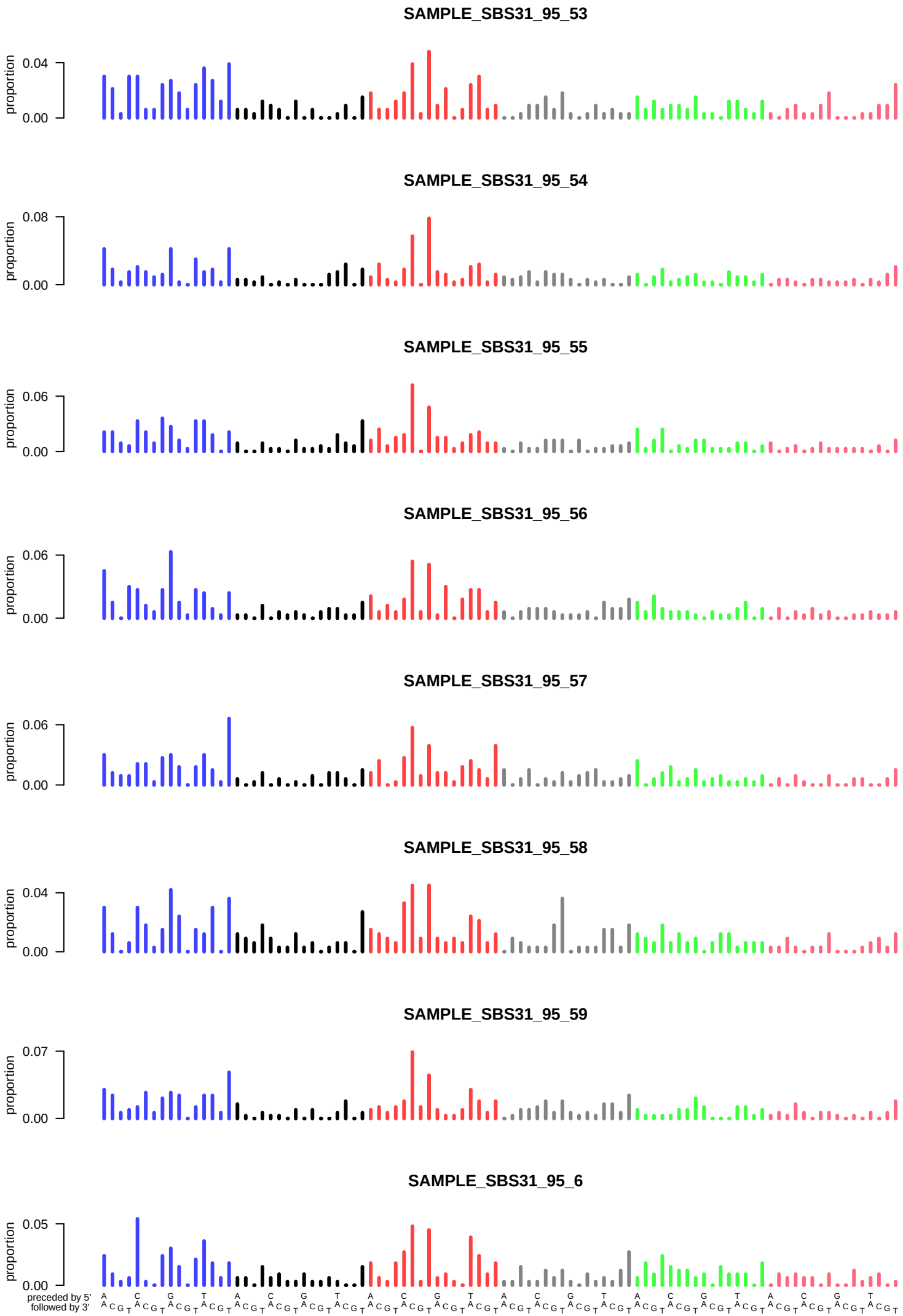
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SAMPLE_SBS31_95_59
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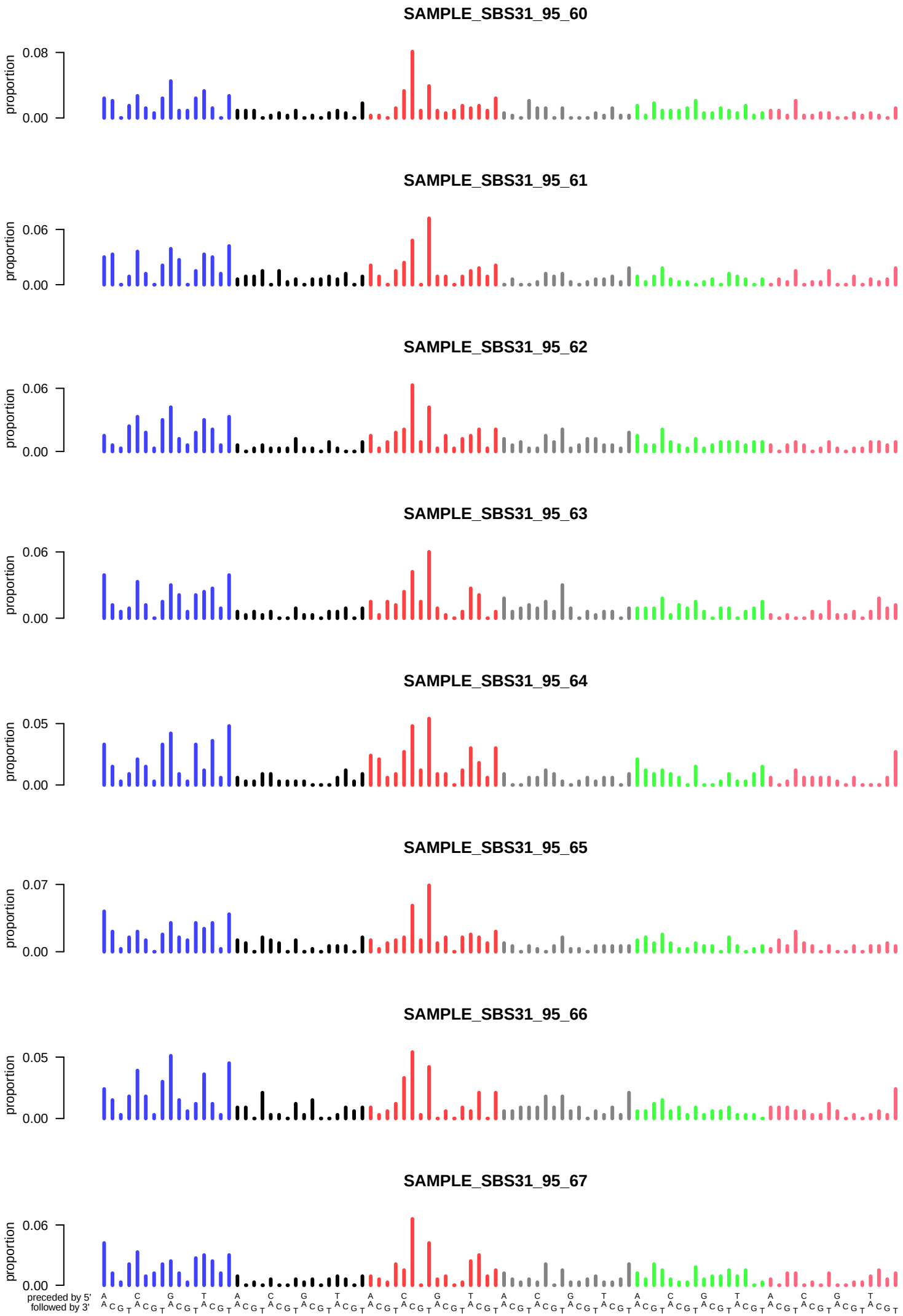
followed by 3'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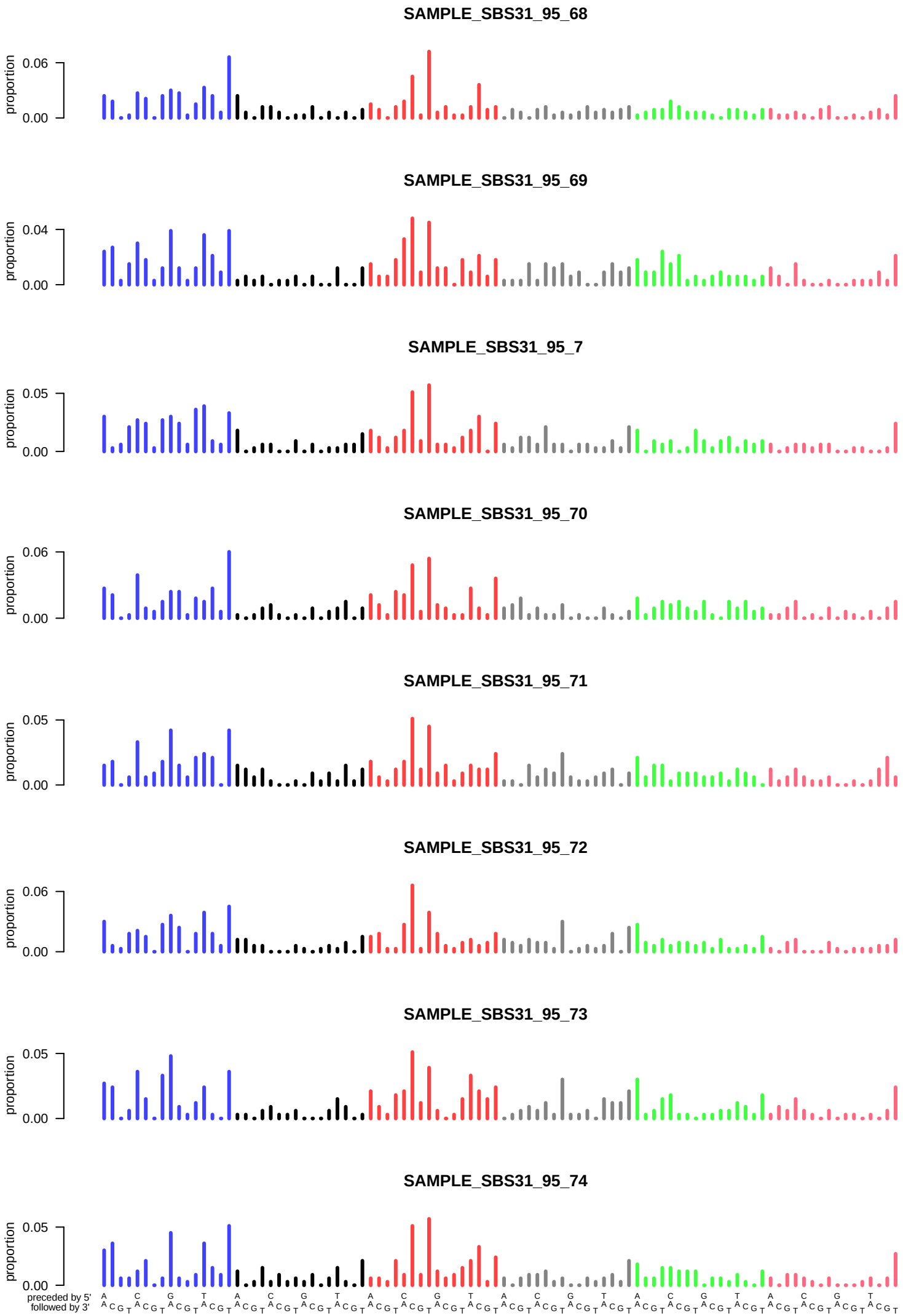
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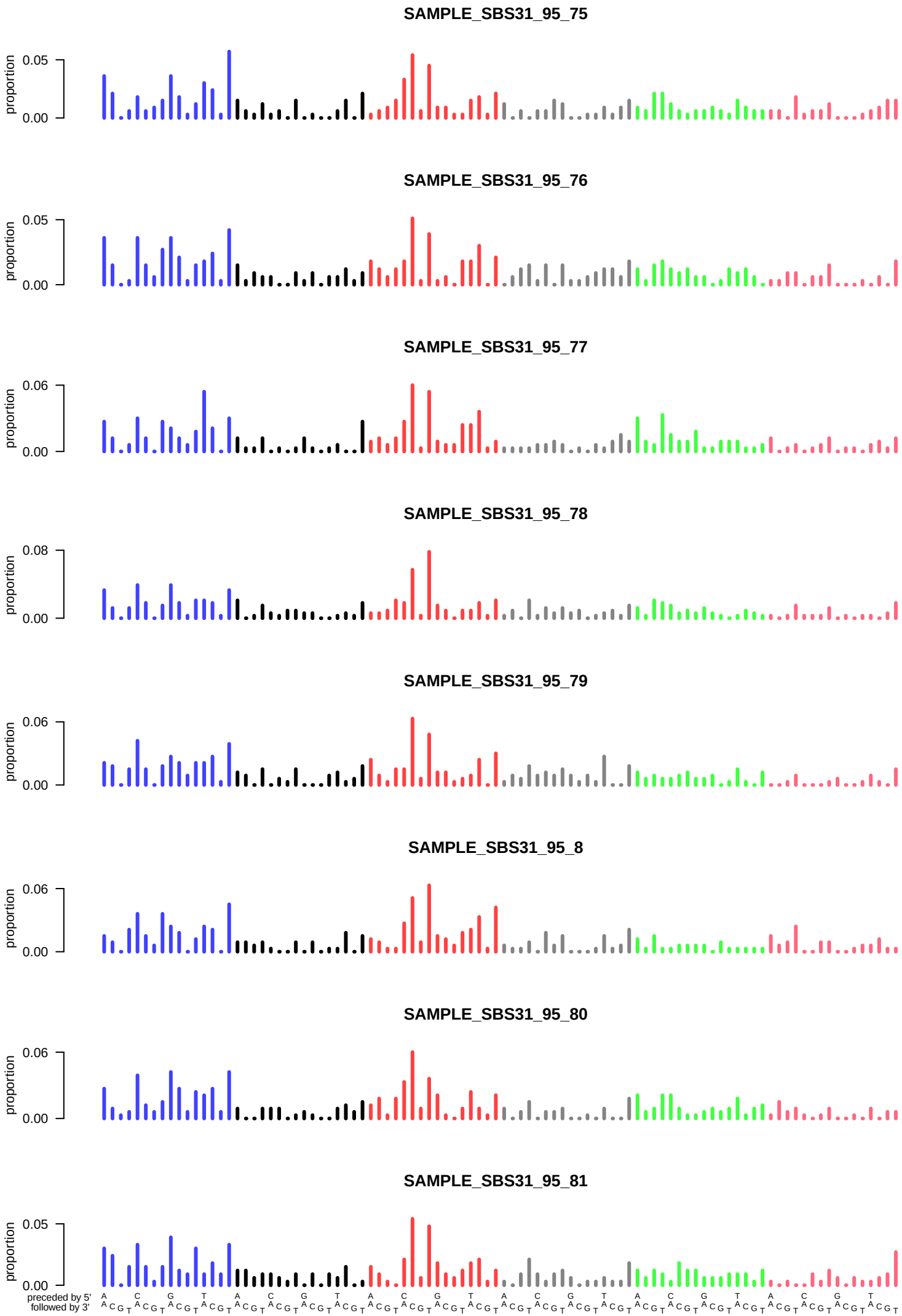
A C G T A C G T A C G T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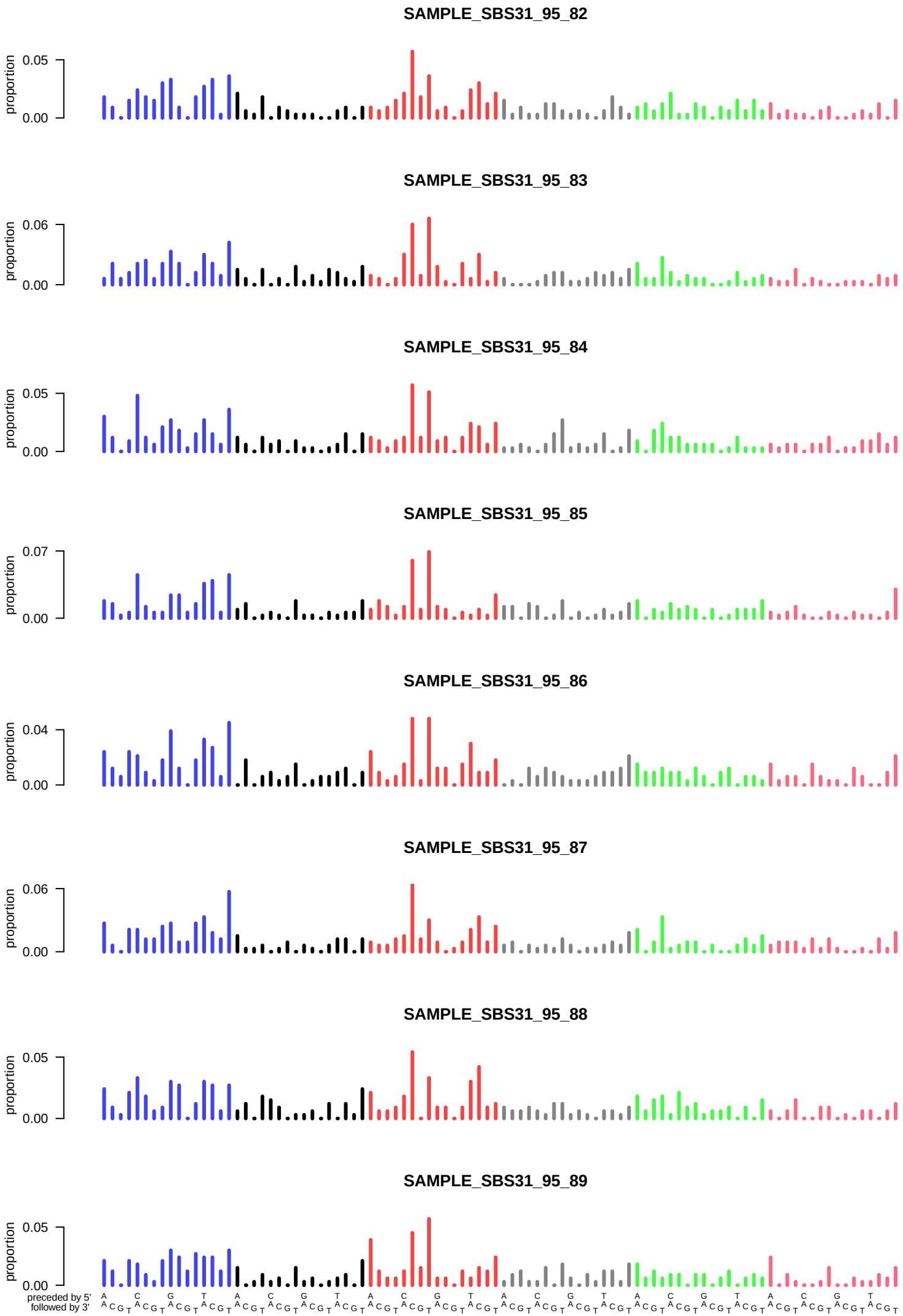
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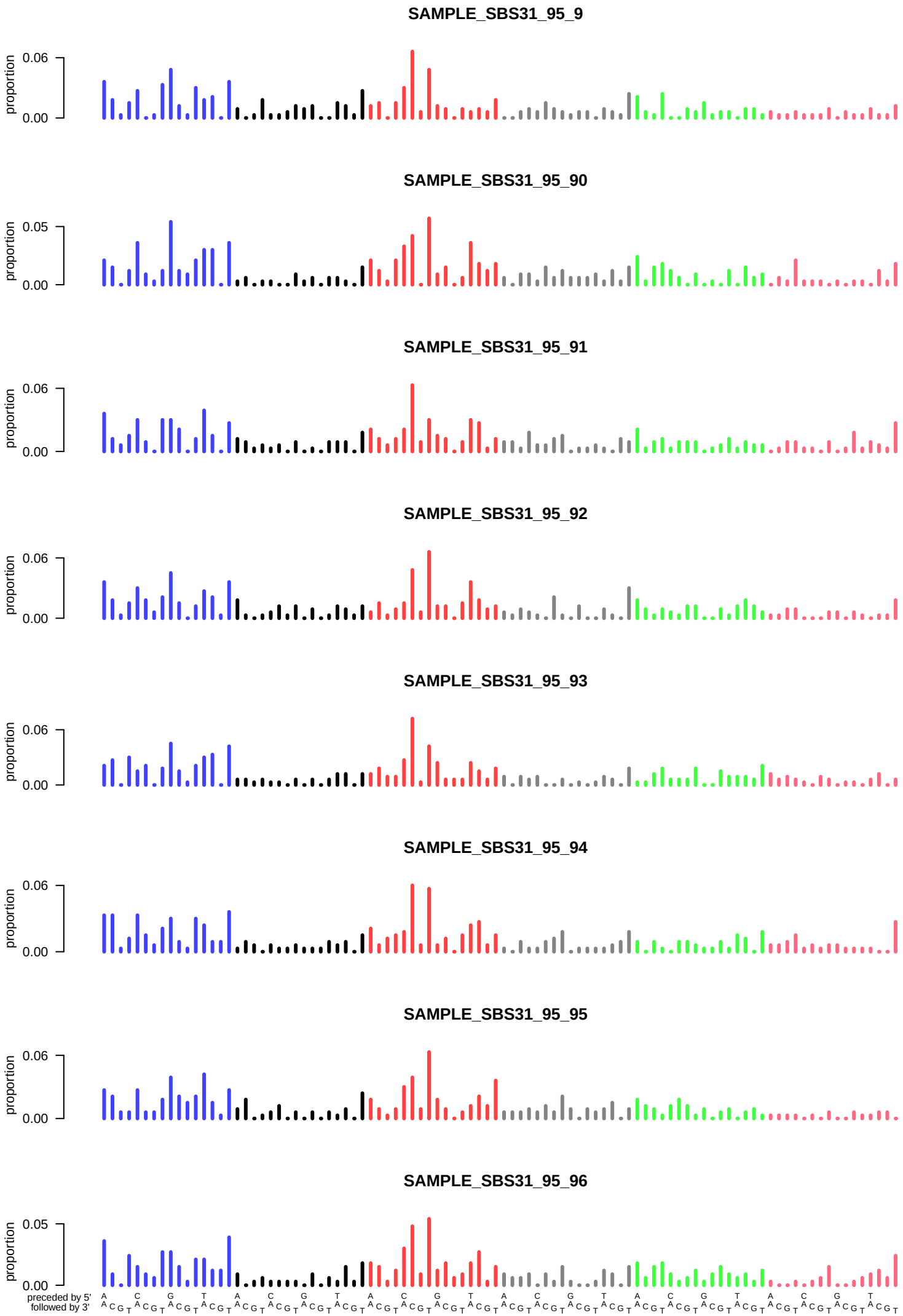
preceded by 5'
followed by 3'
A C G T A C G T A C G T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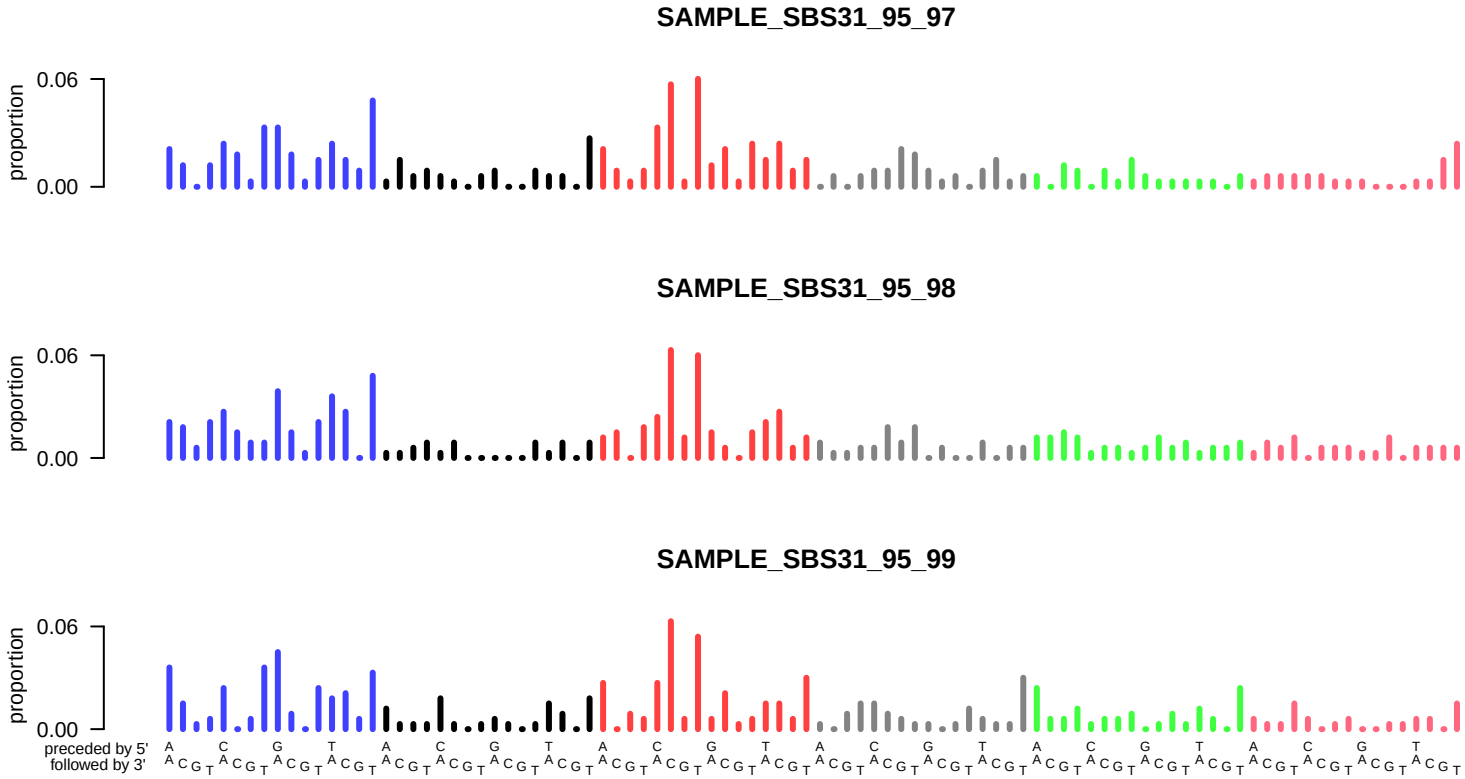
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followed by 3'