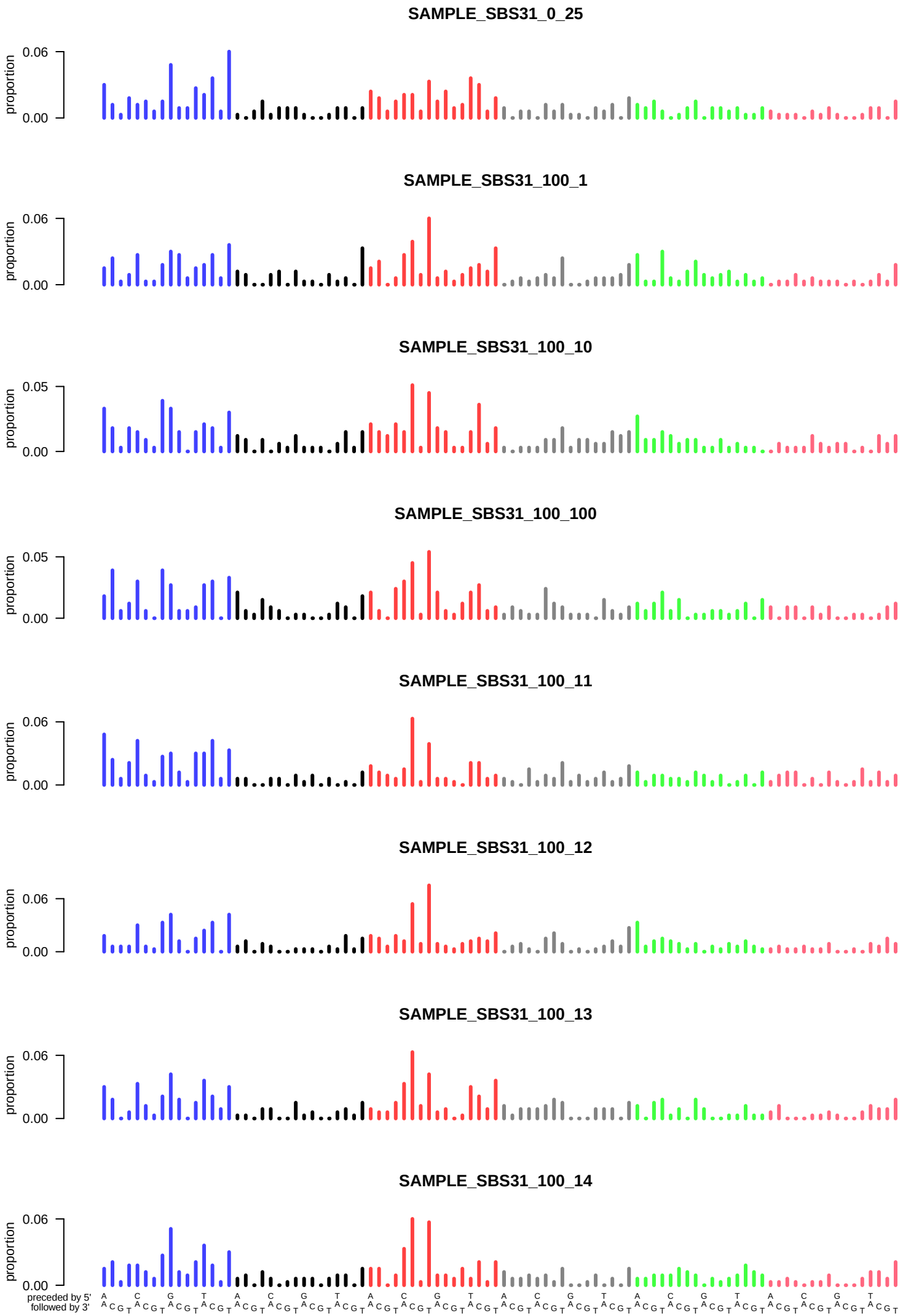
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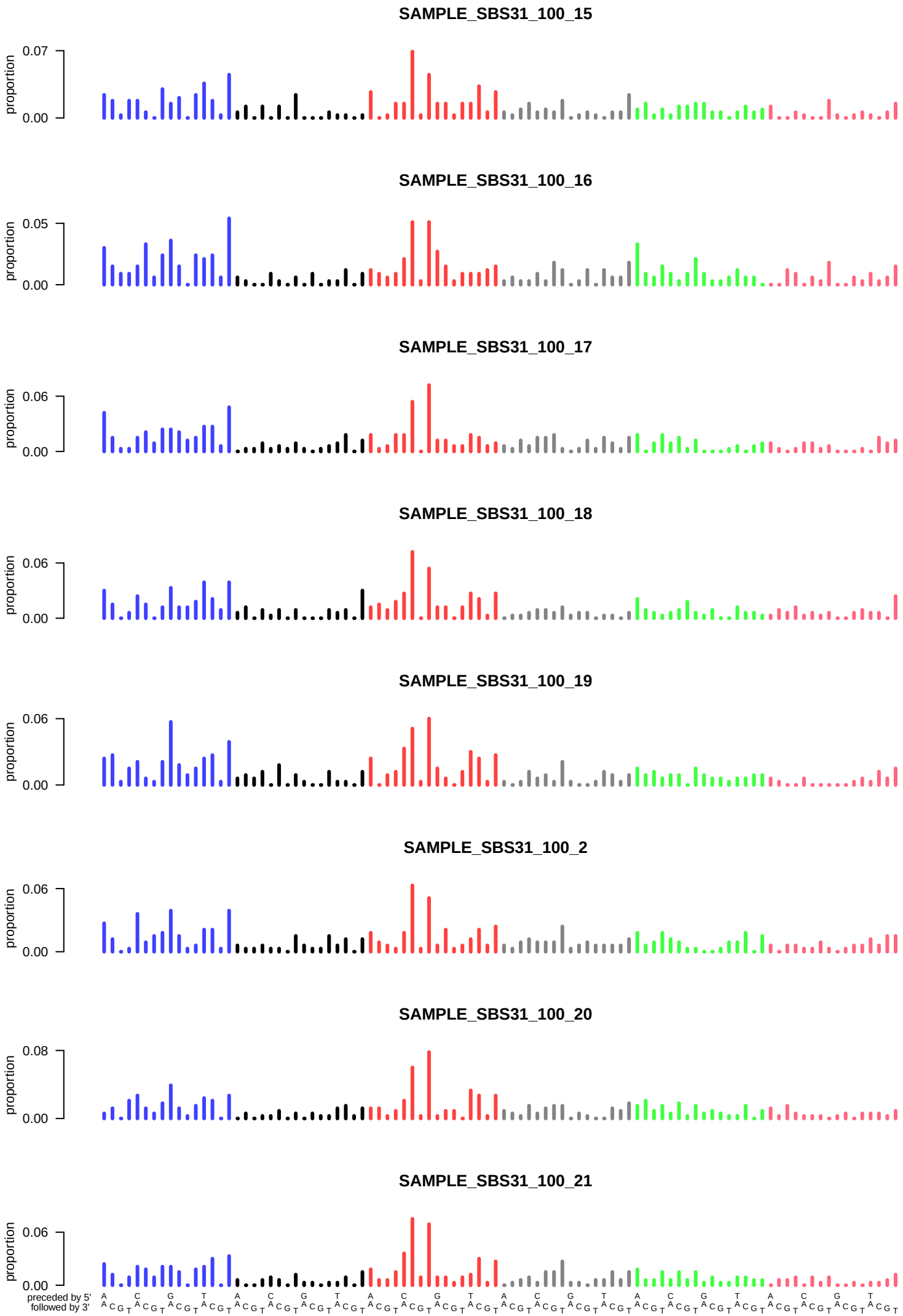
followed by 3'
A C G T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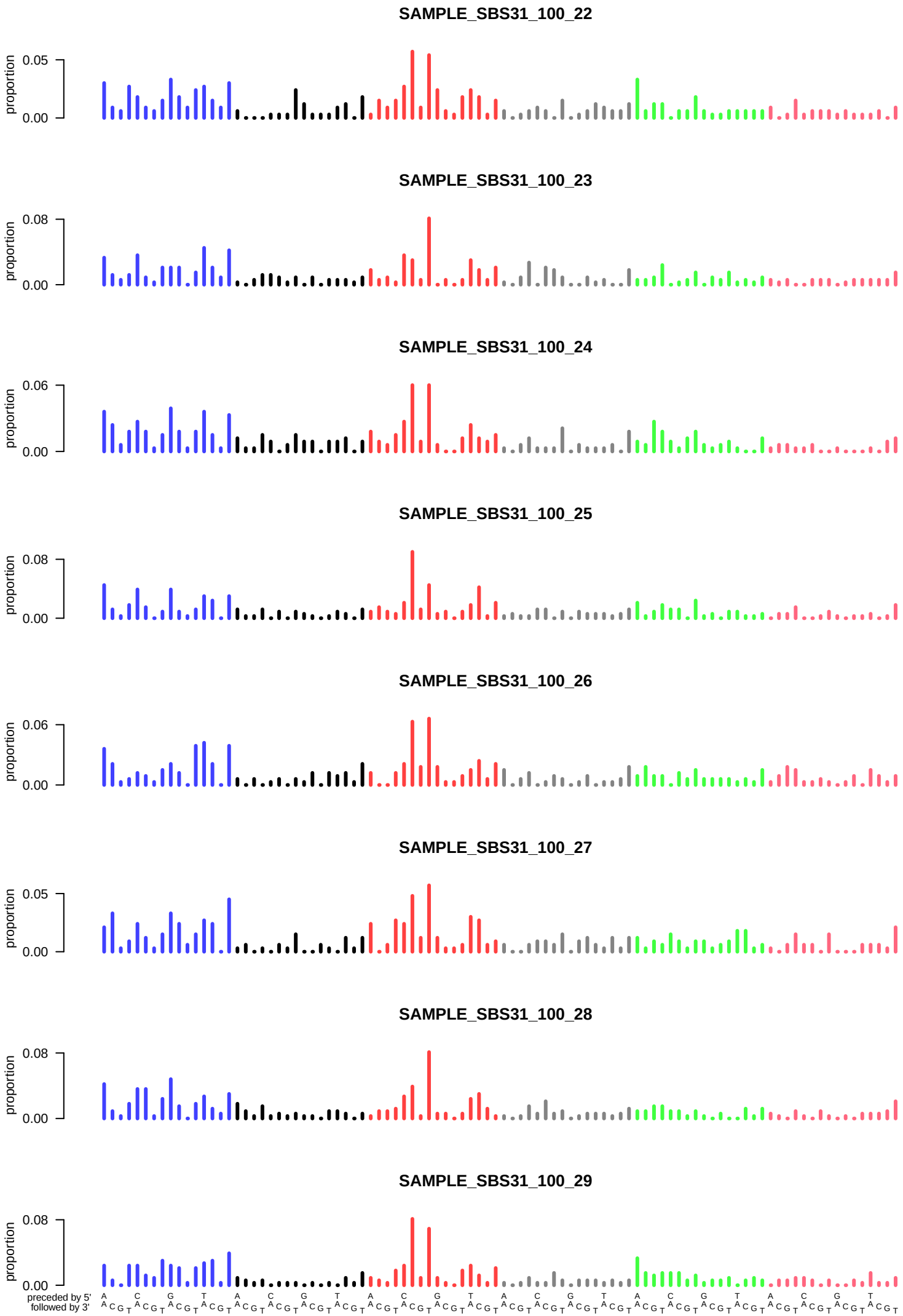
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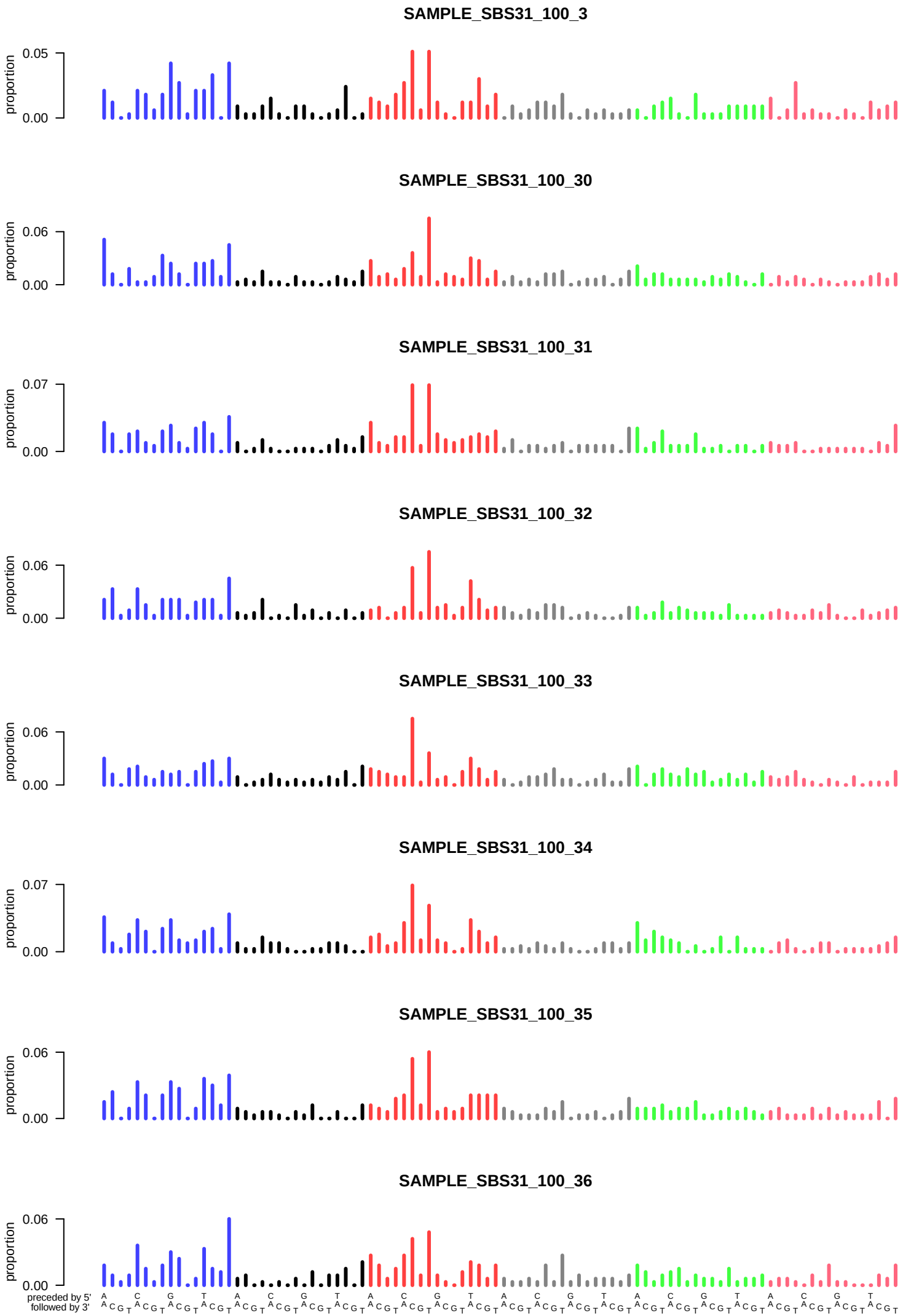
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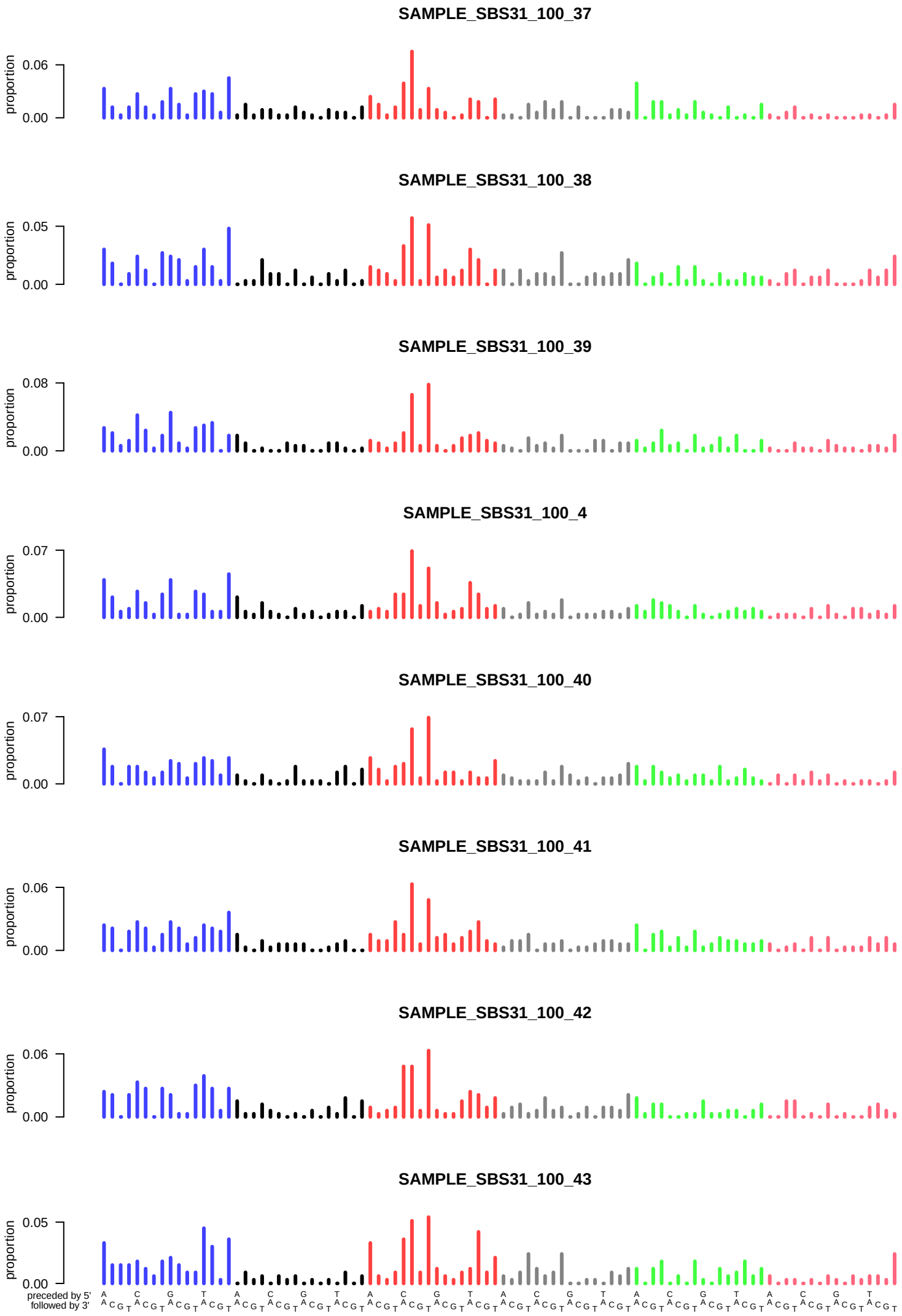
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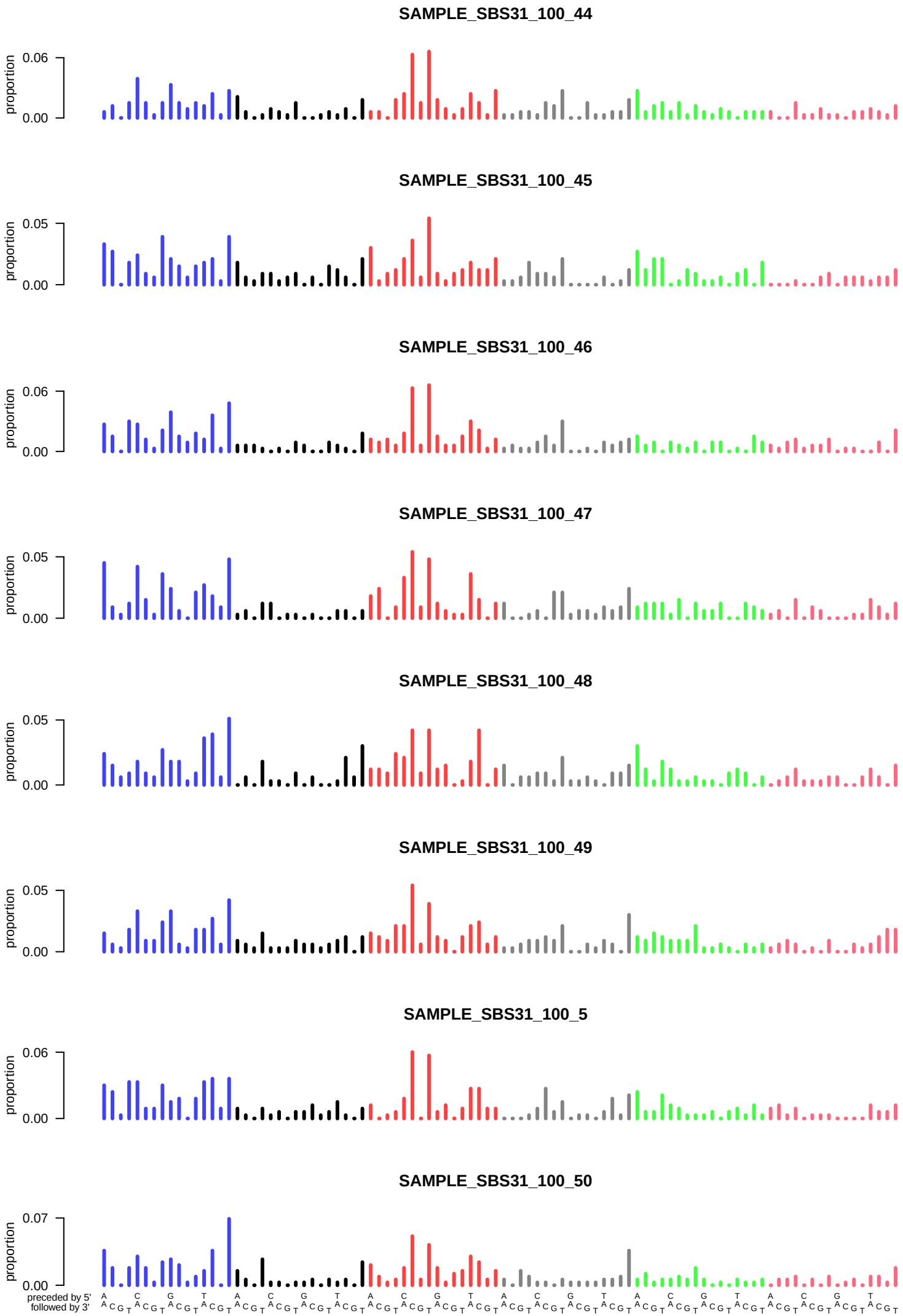
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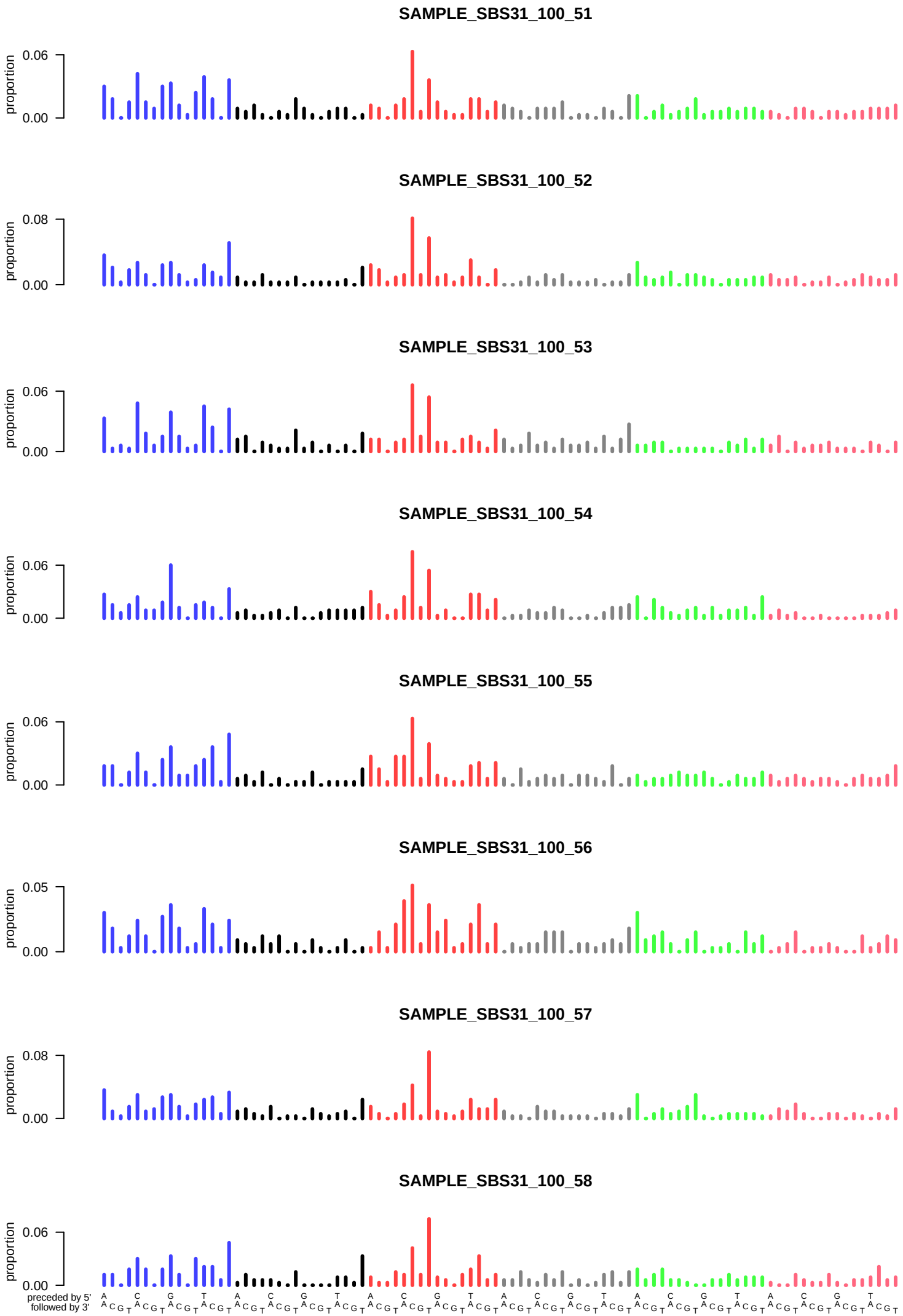
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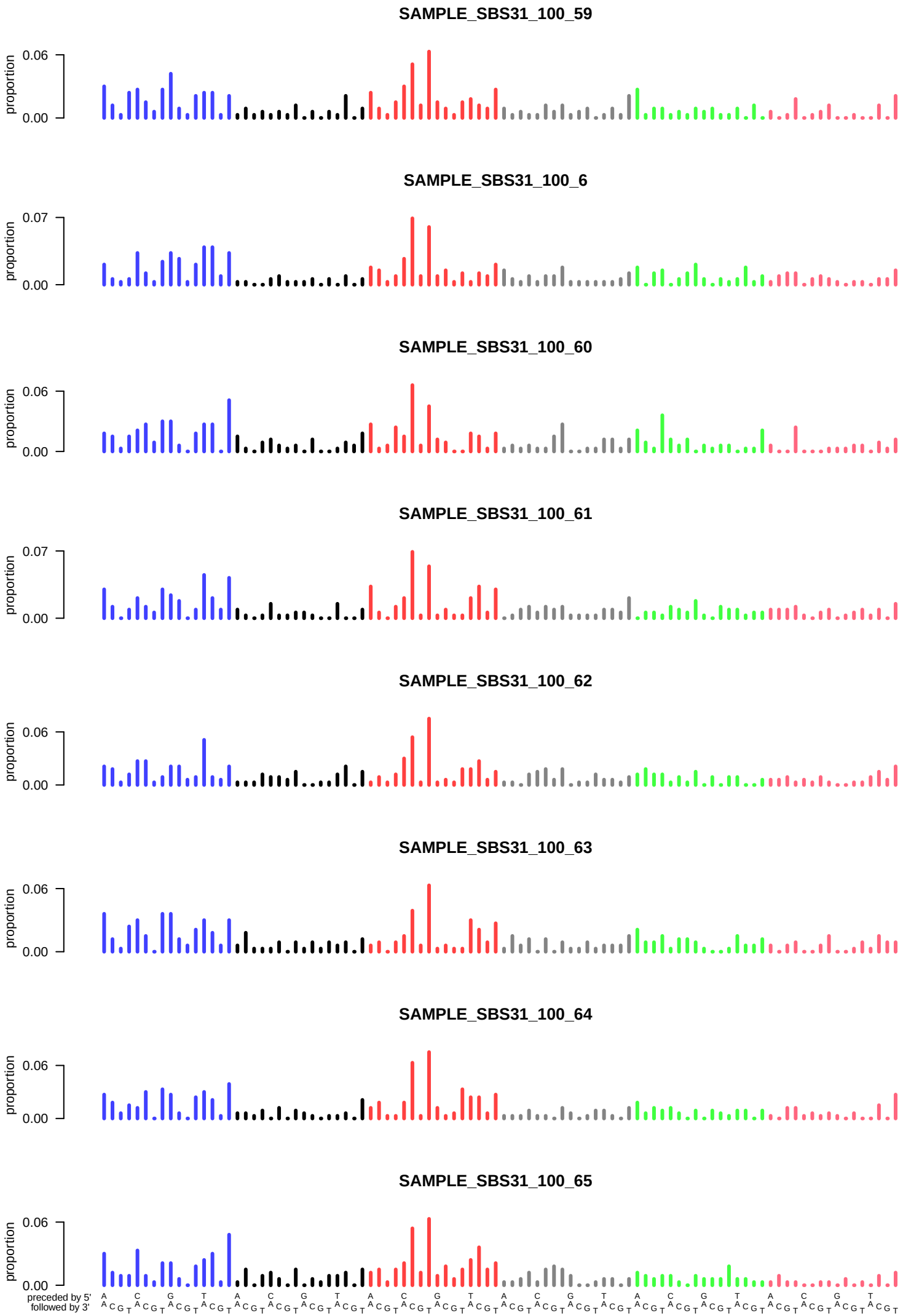
followed by 3'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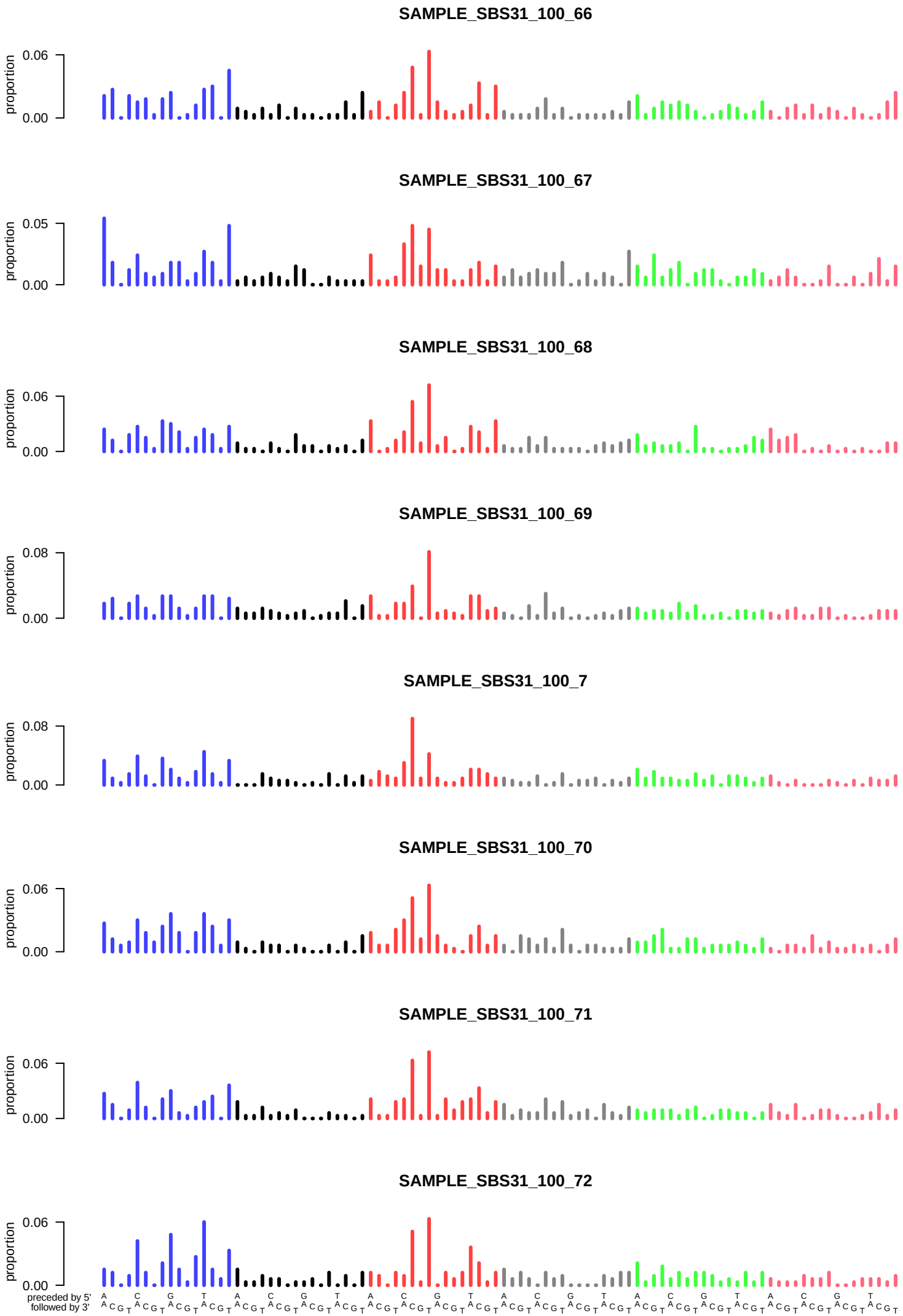
A C G T A C G T A C G T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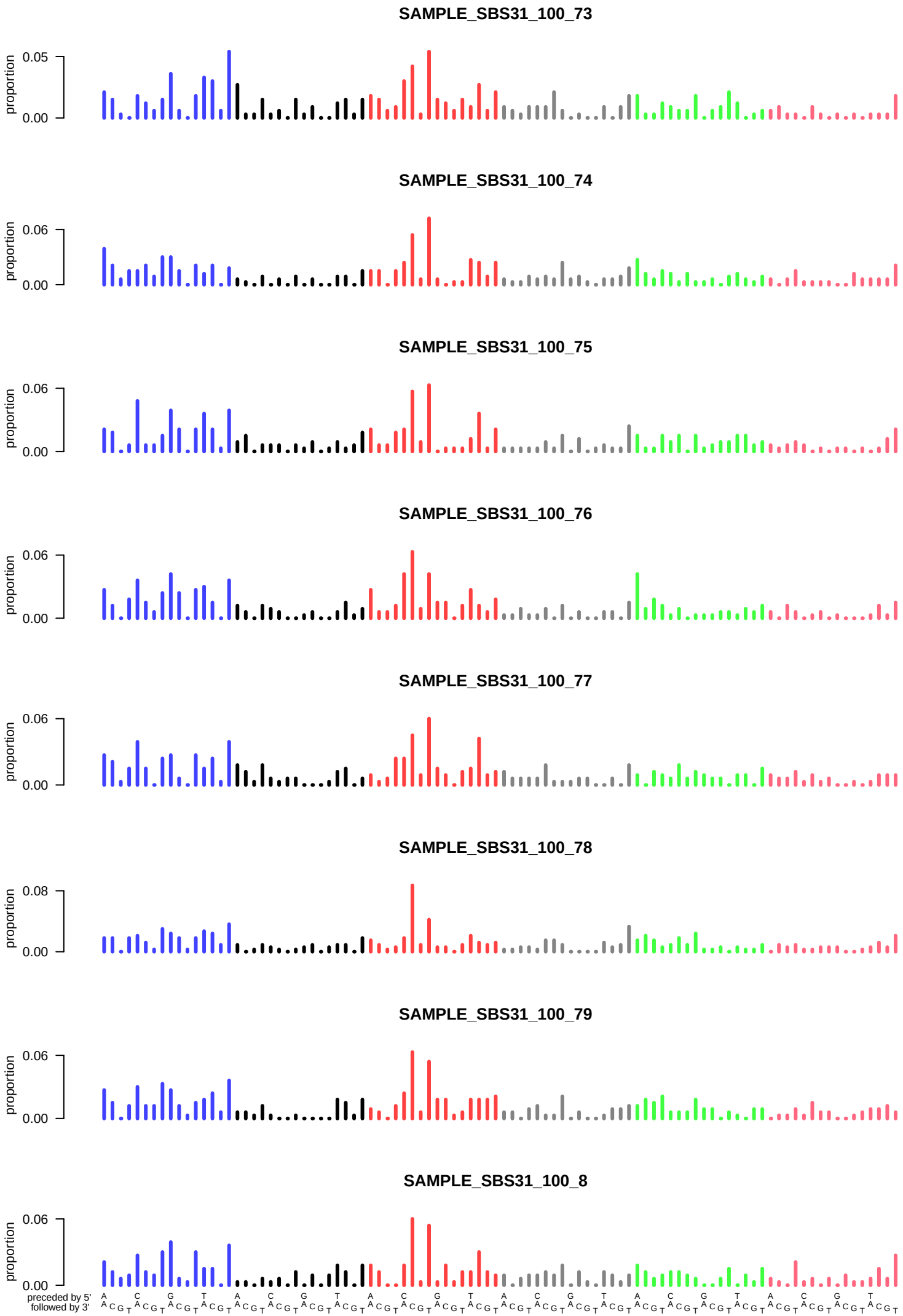
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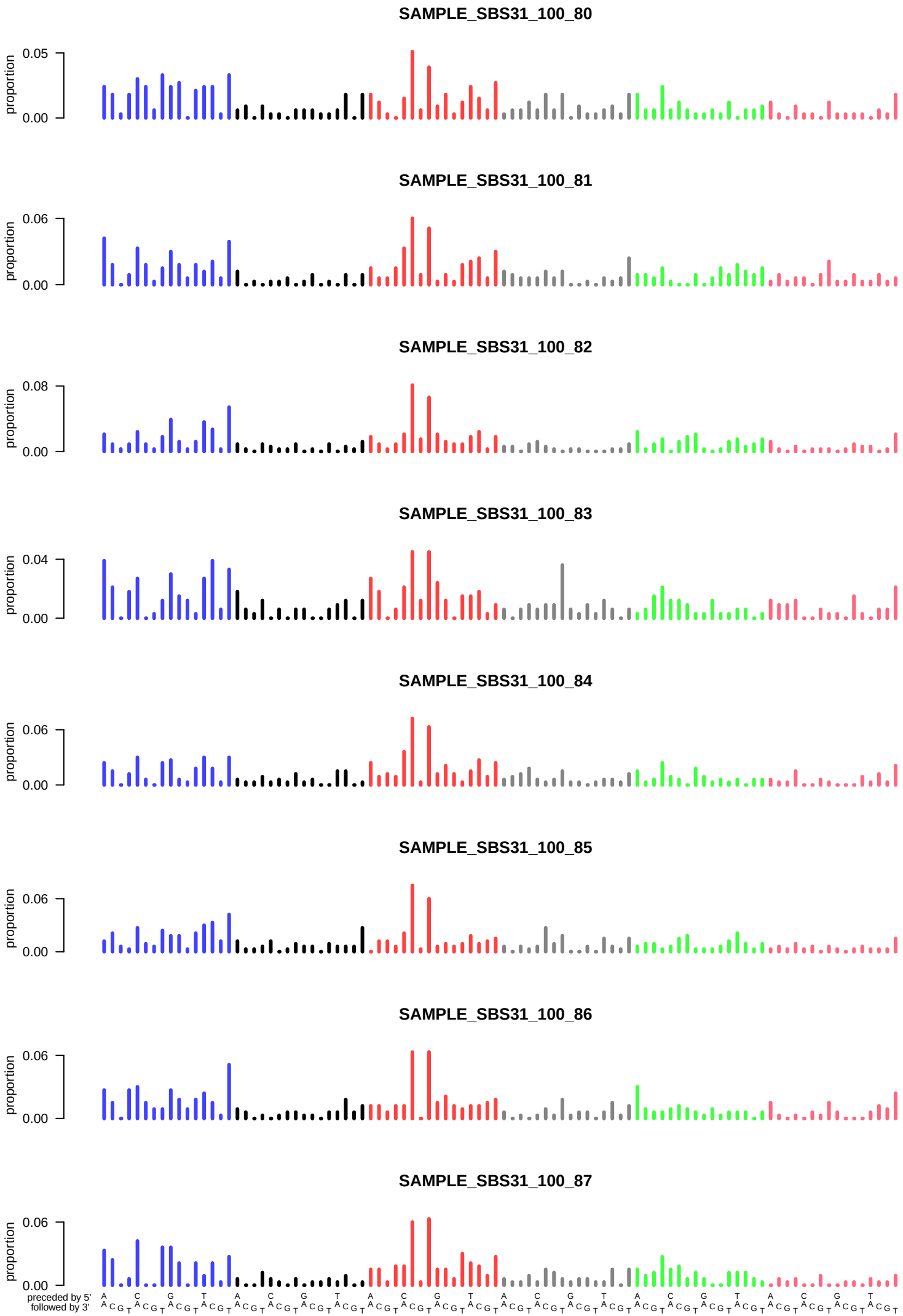
A C G T A C G T A C G T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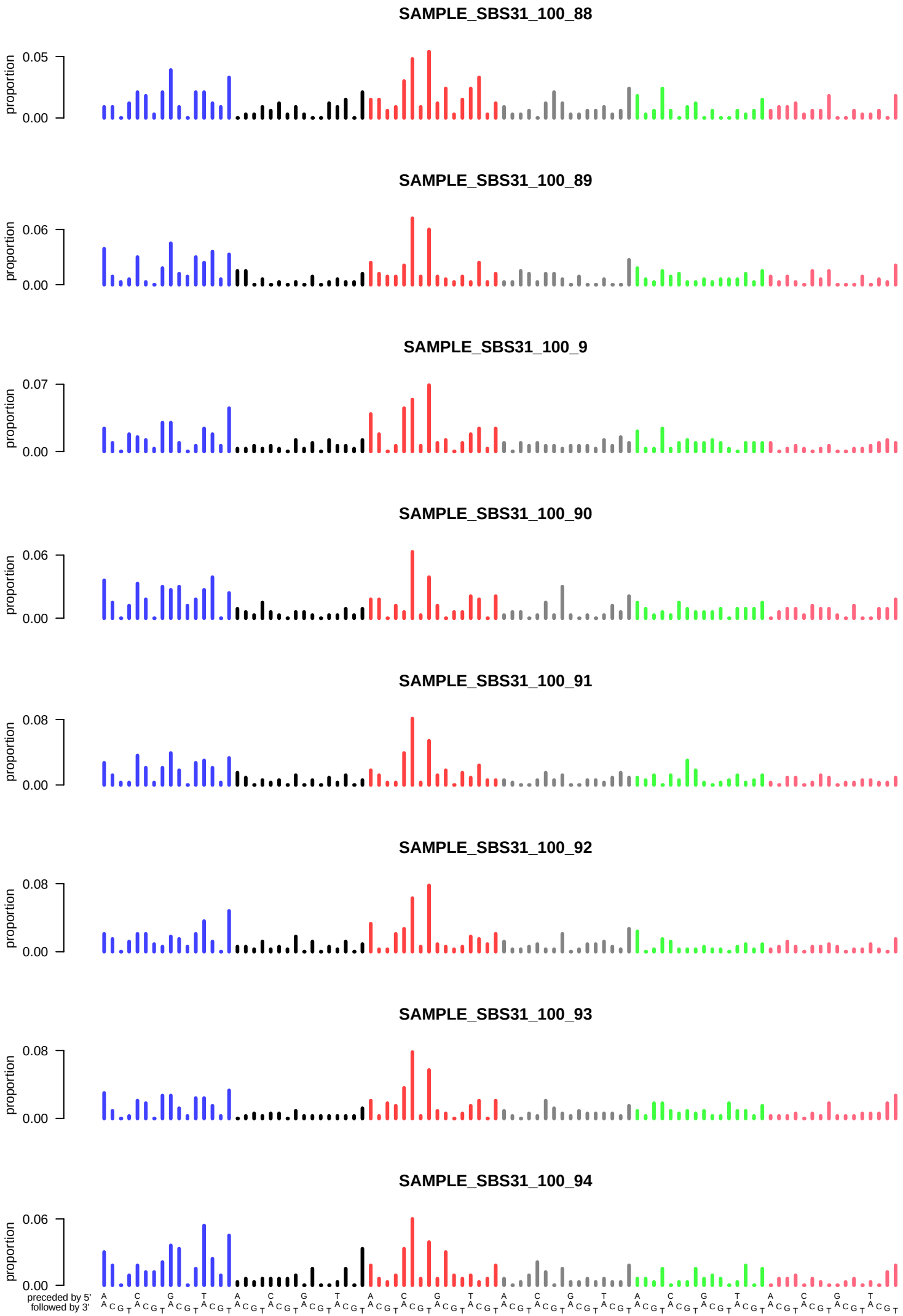
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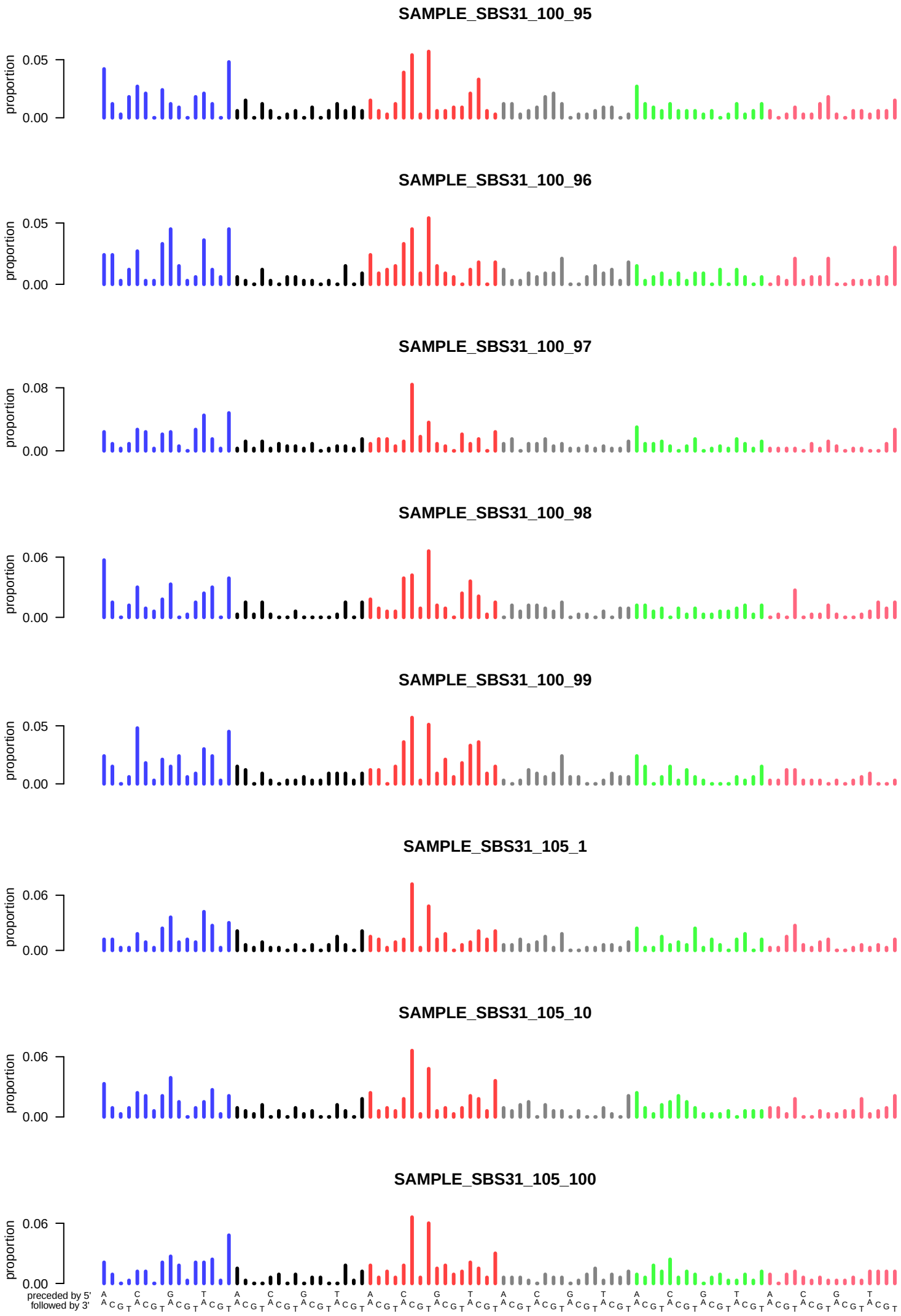
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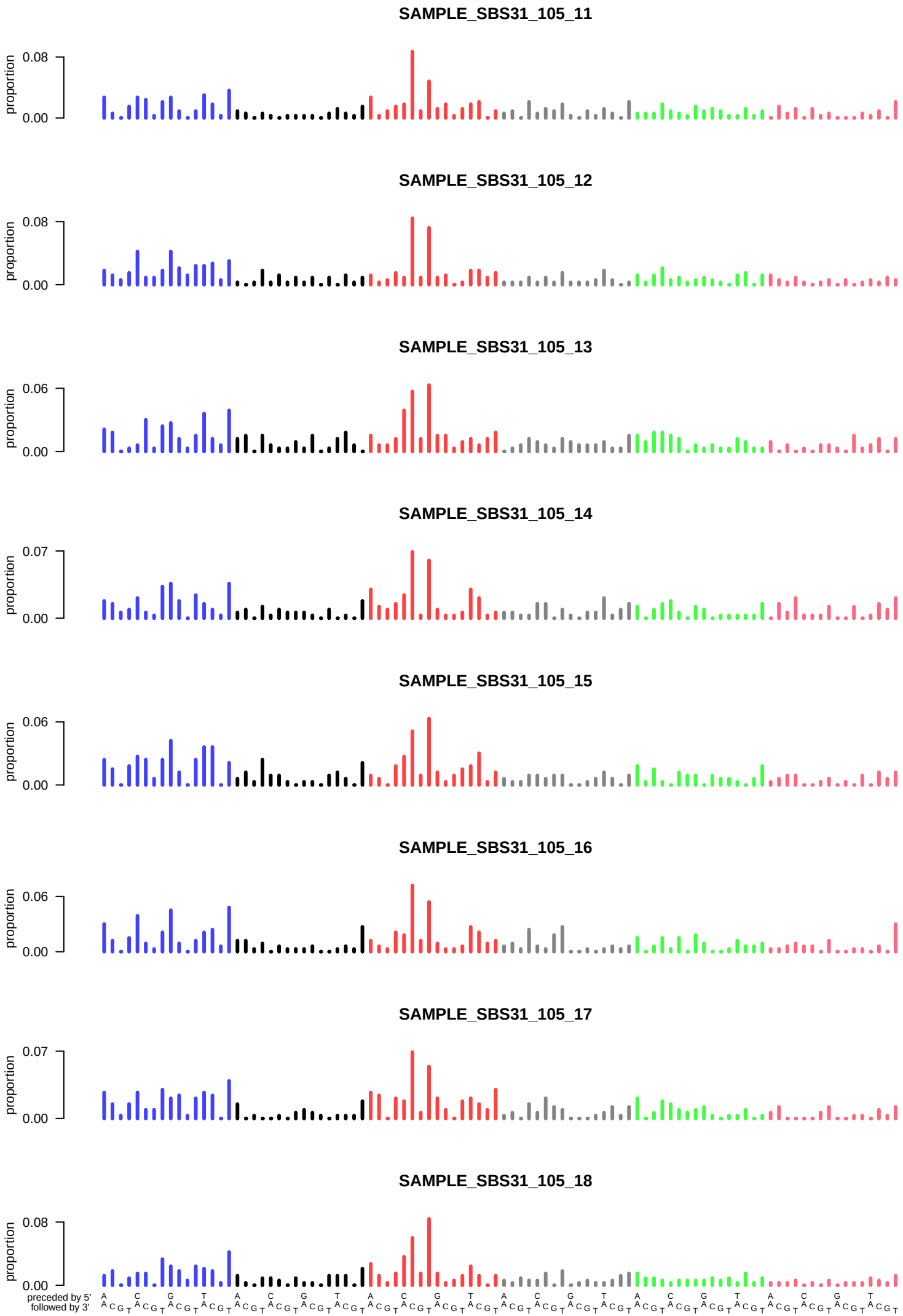
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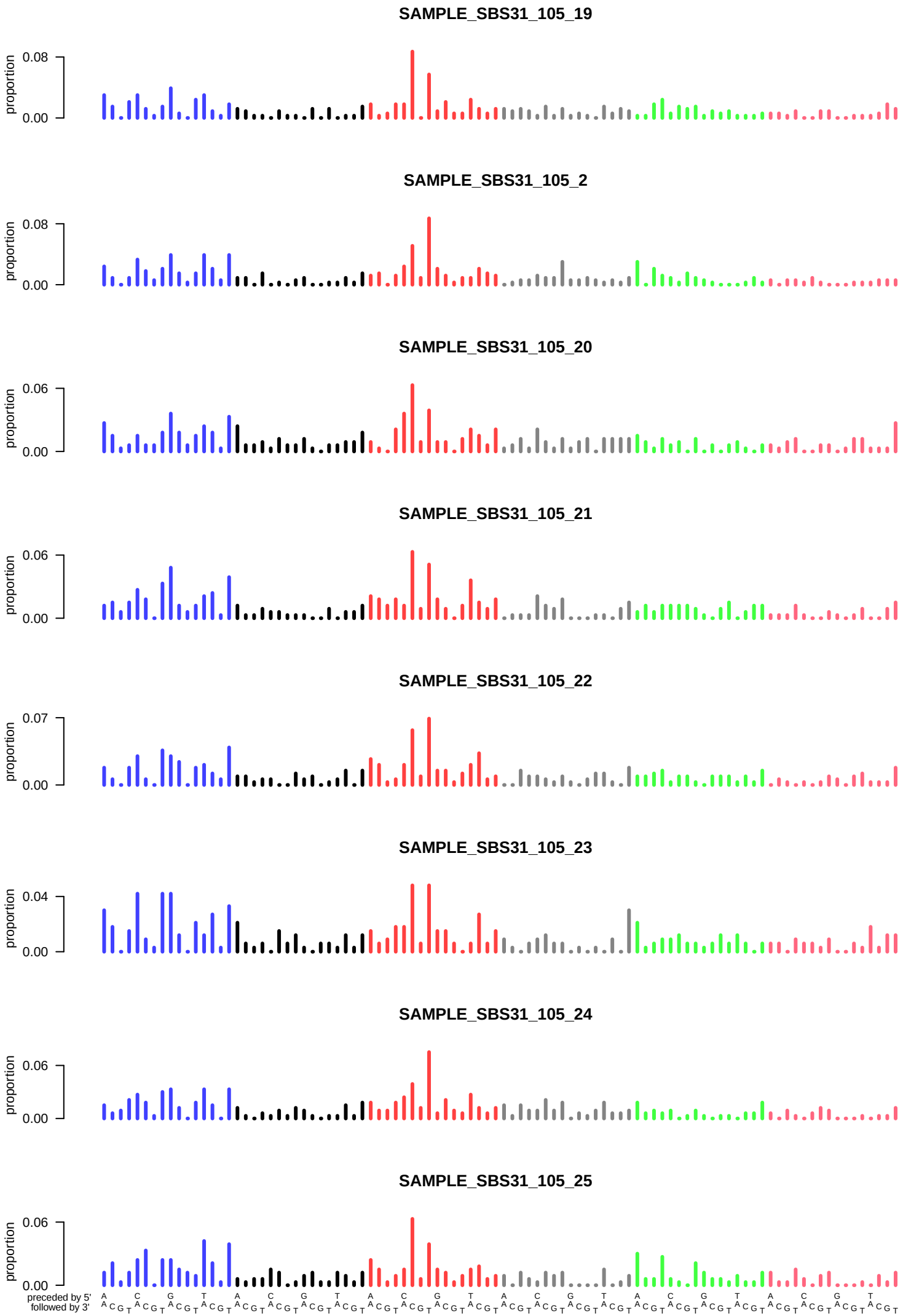
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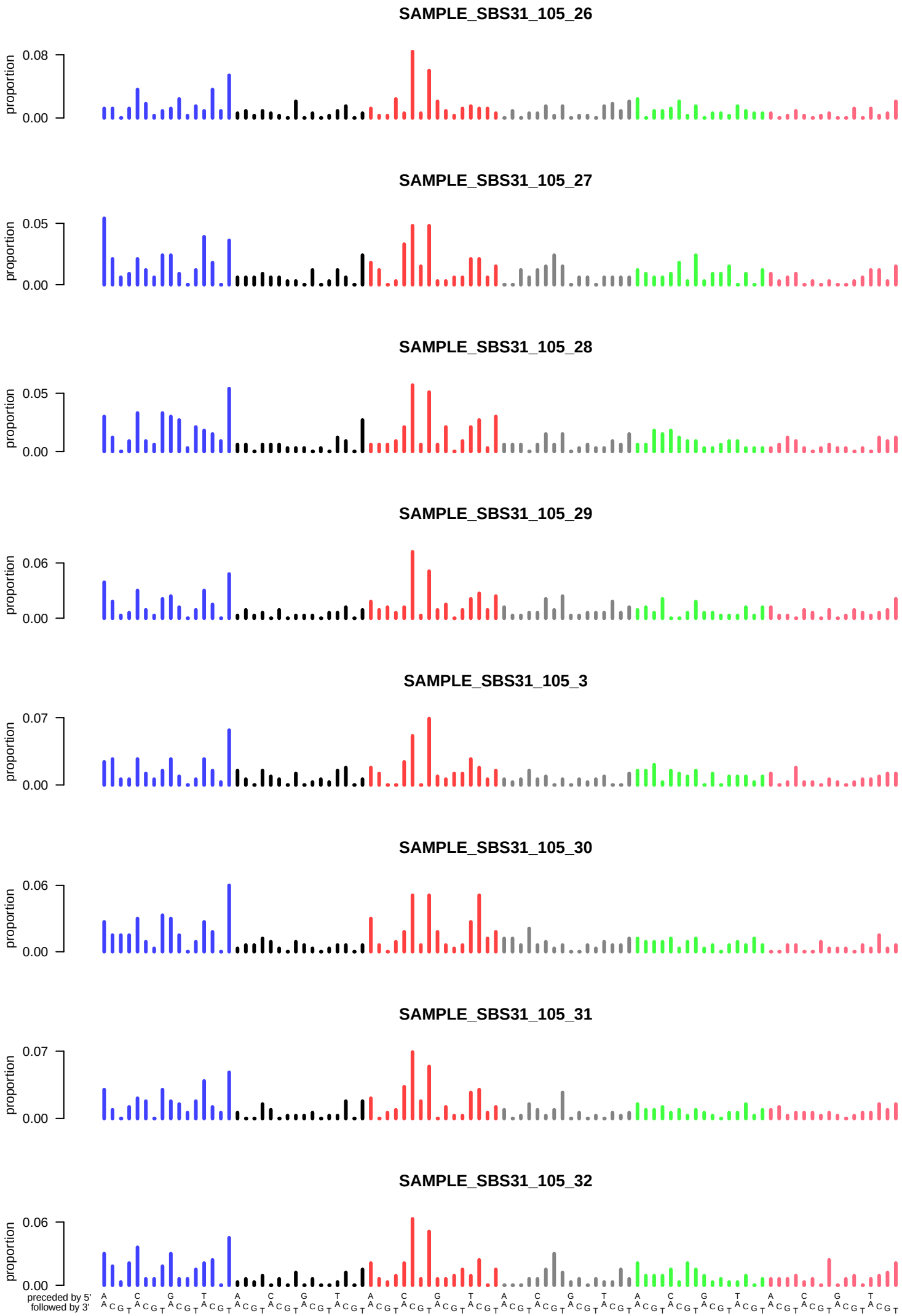
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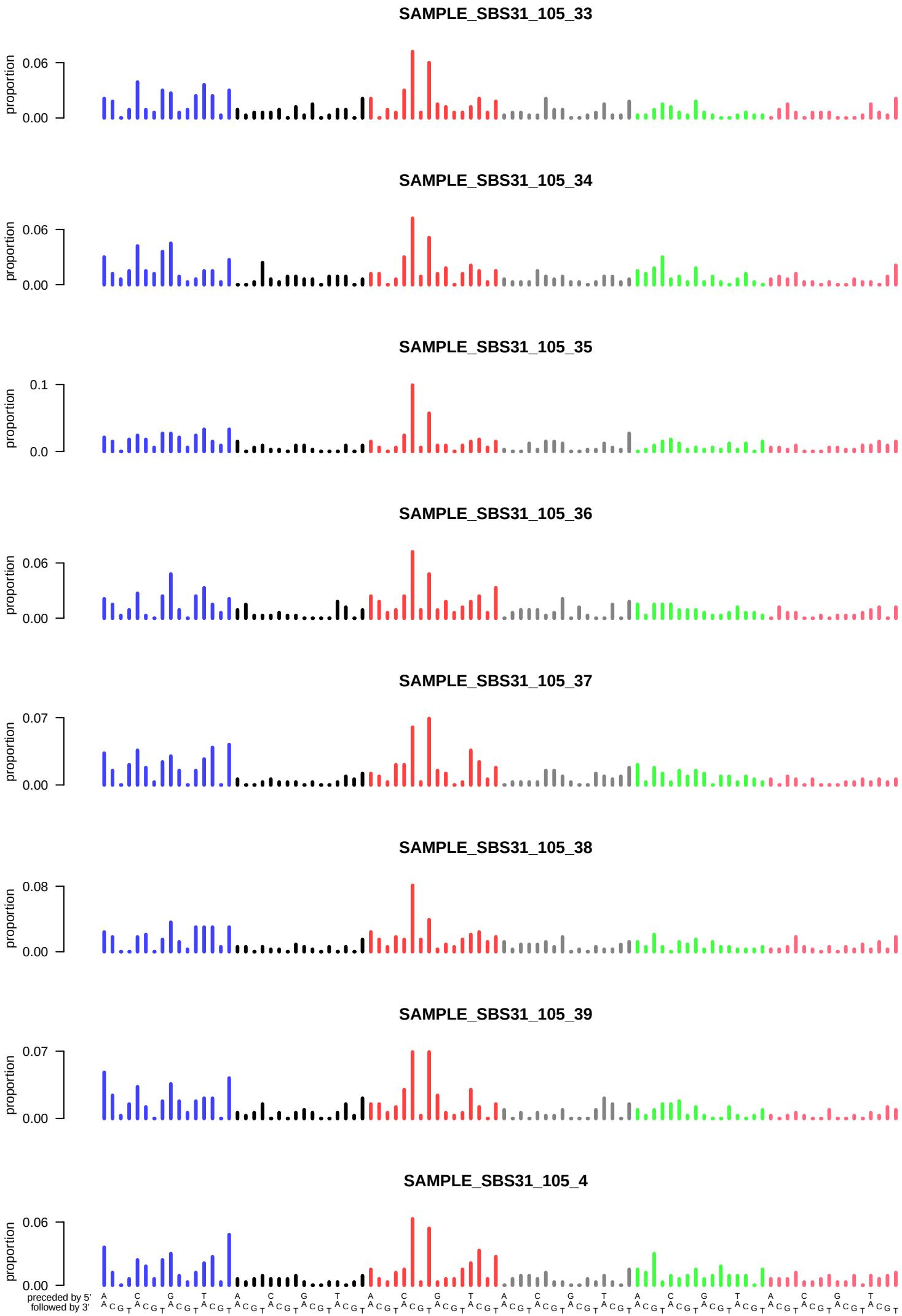
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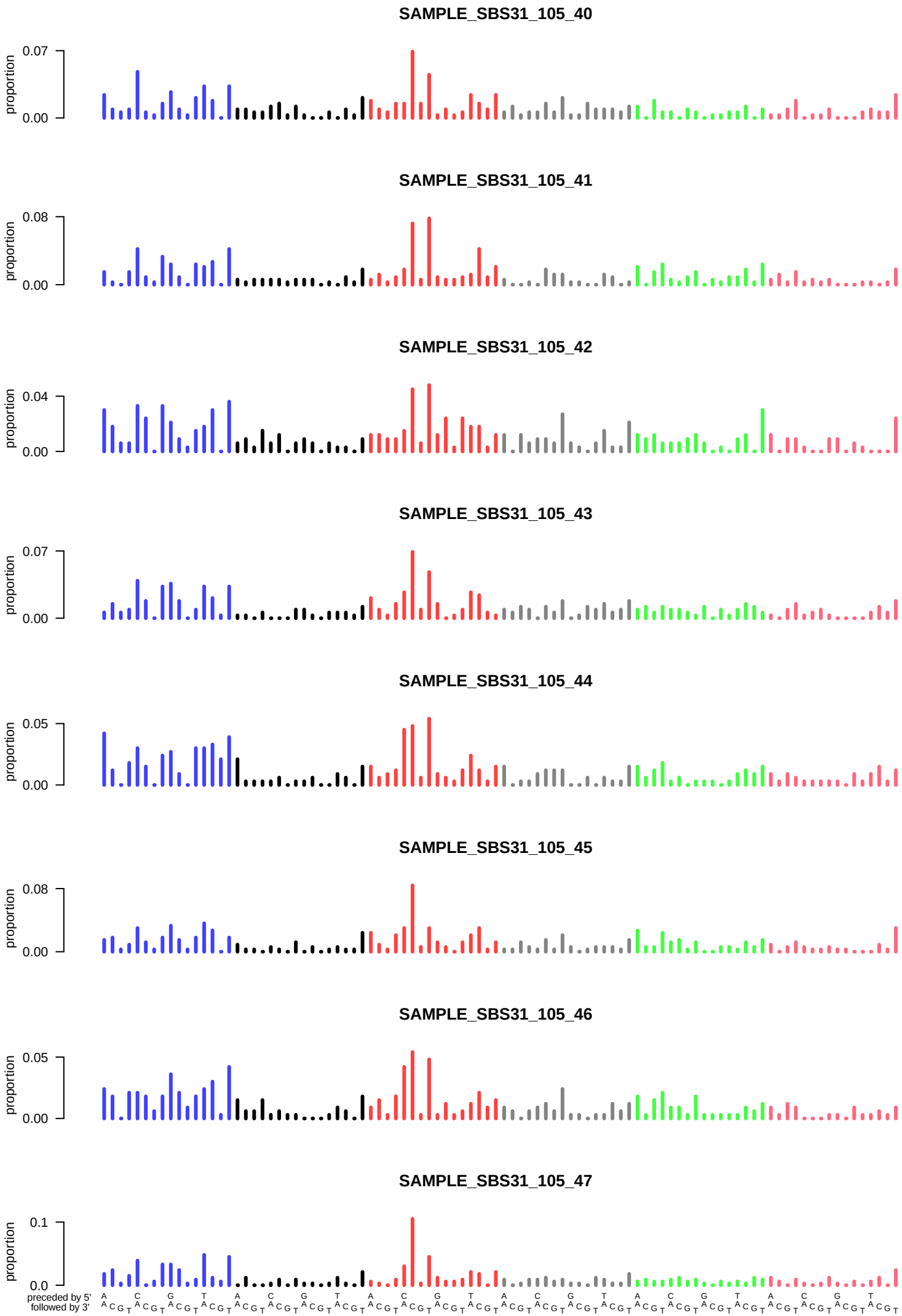
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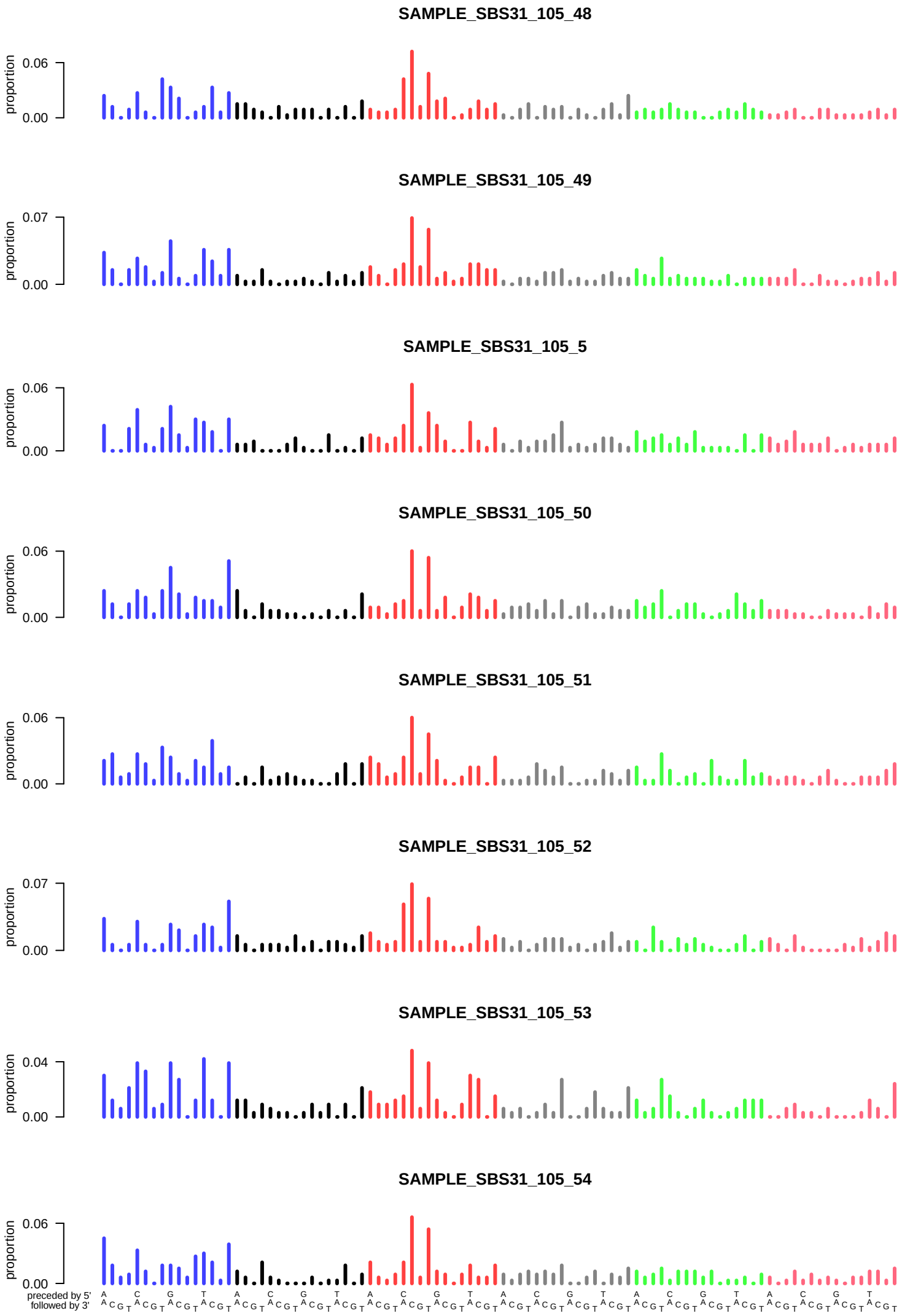
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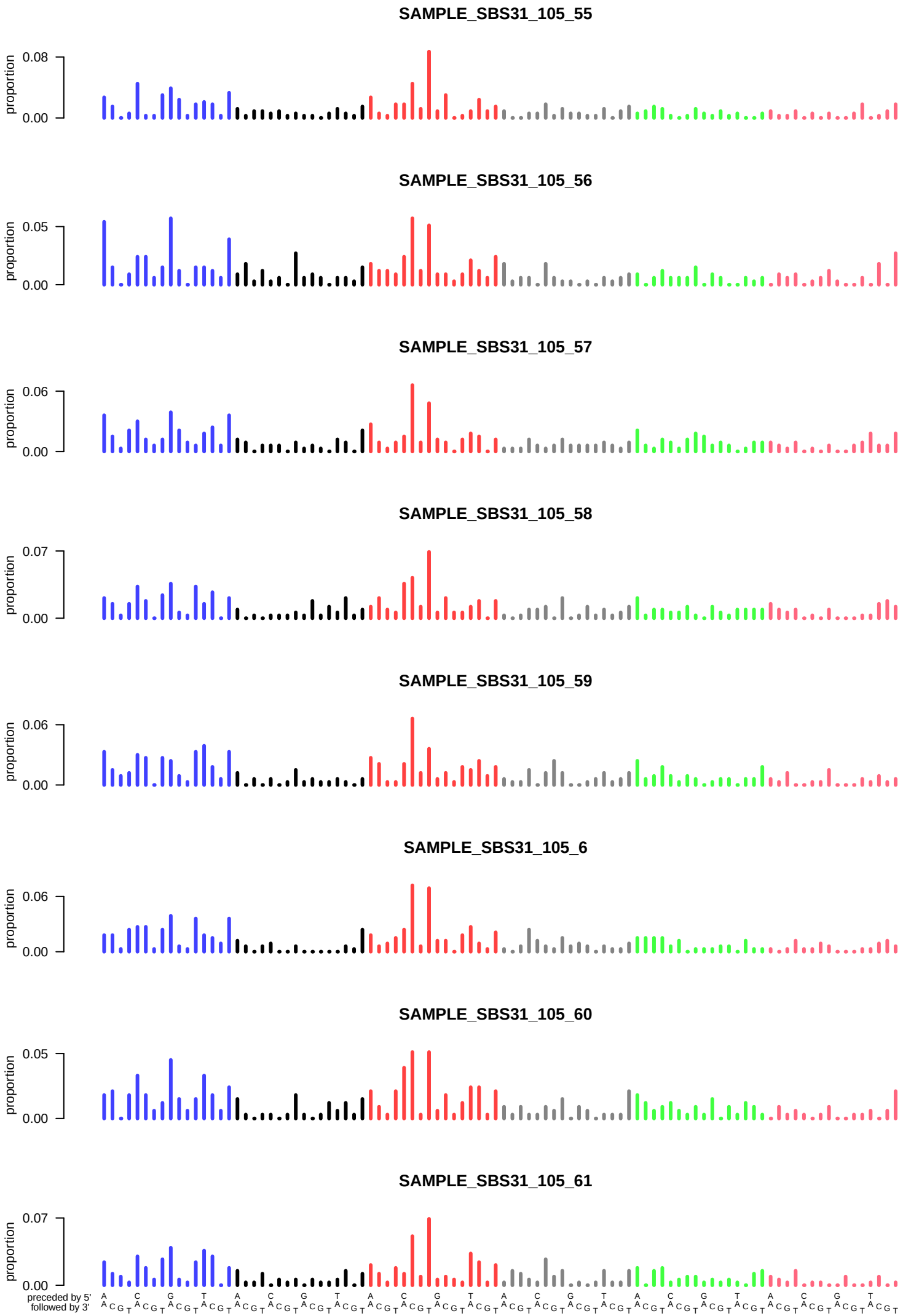
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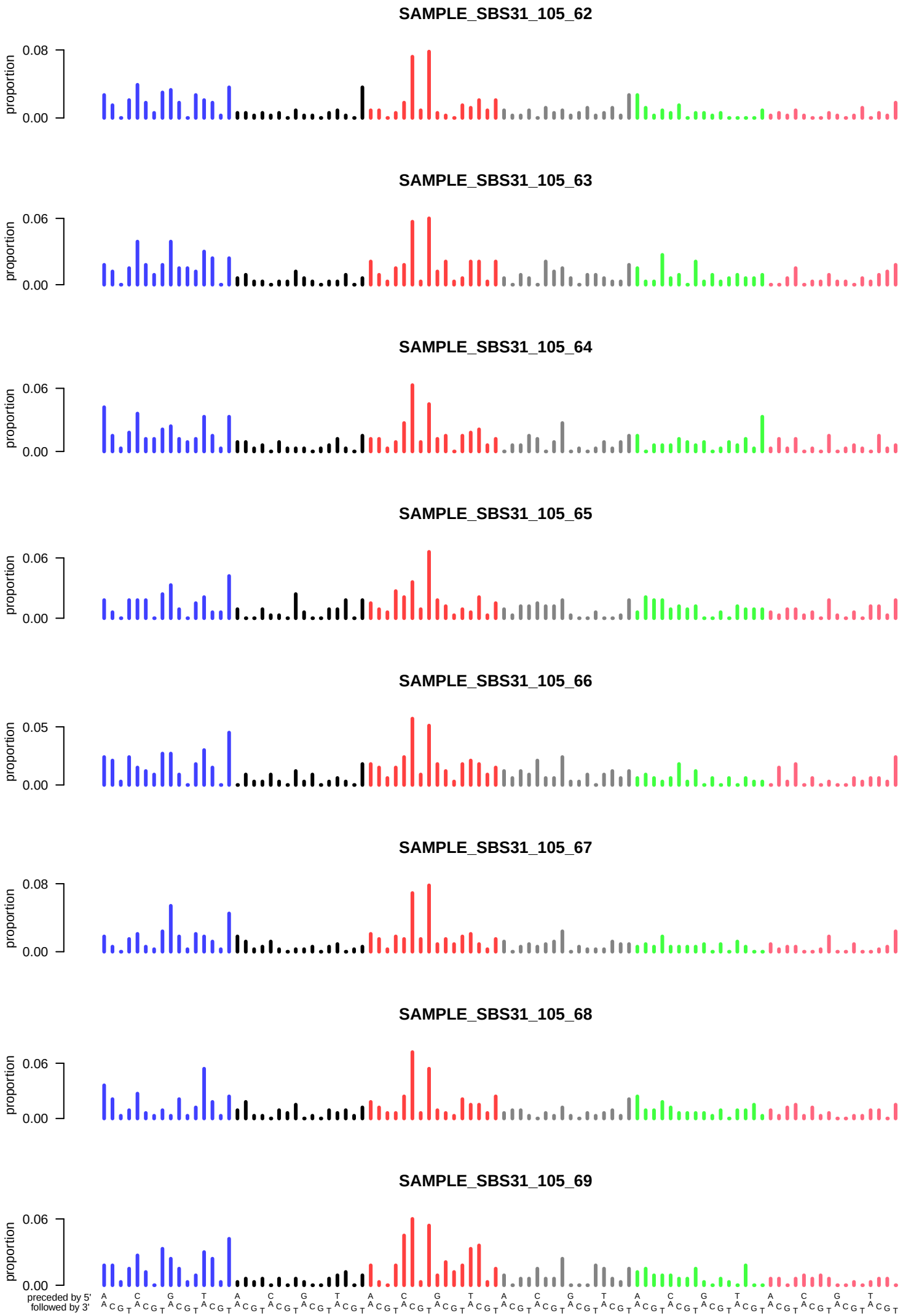
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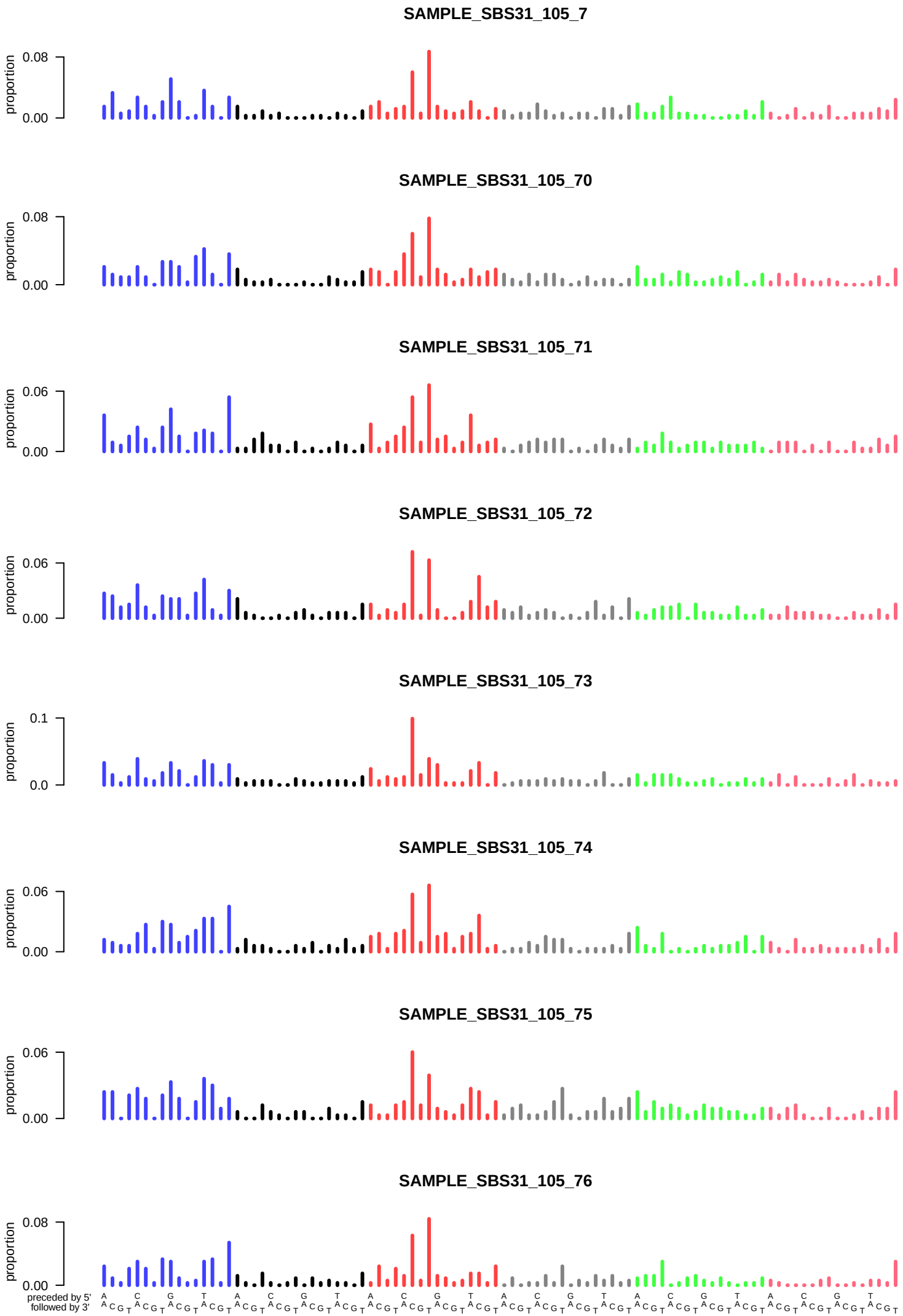
followed by 3'
A C G T A C G T A C G T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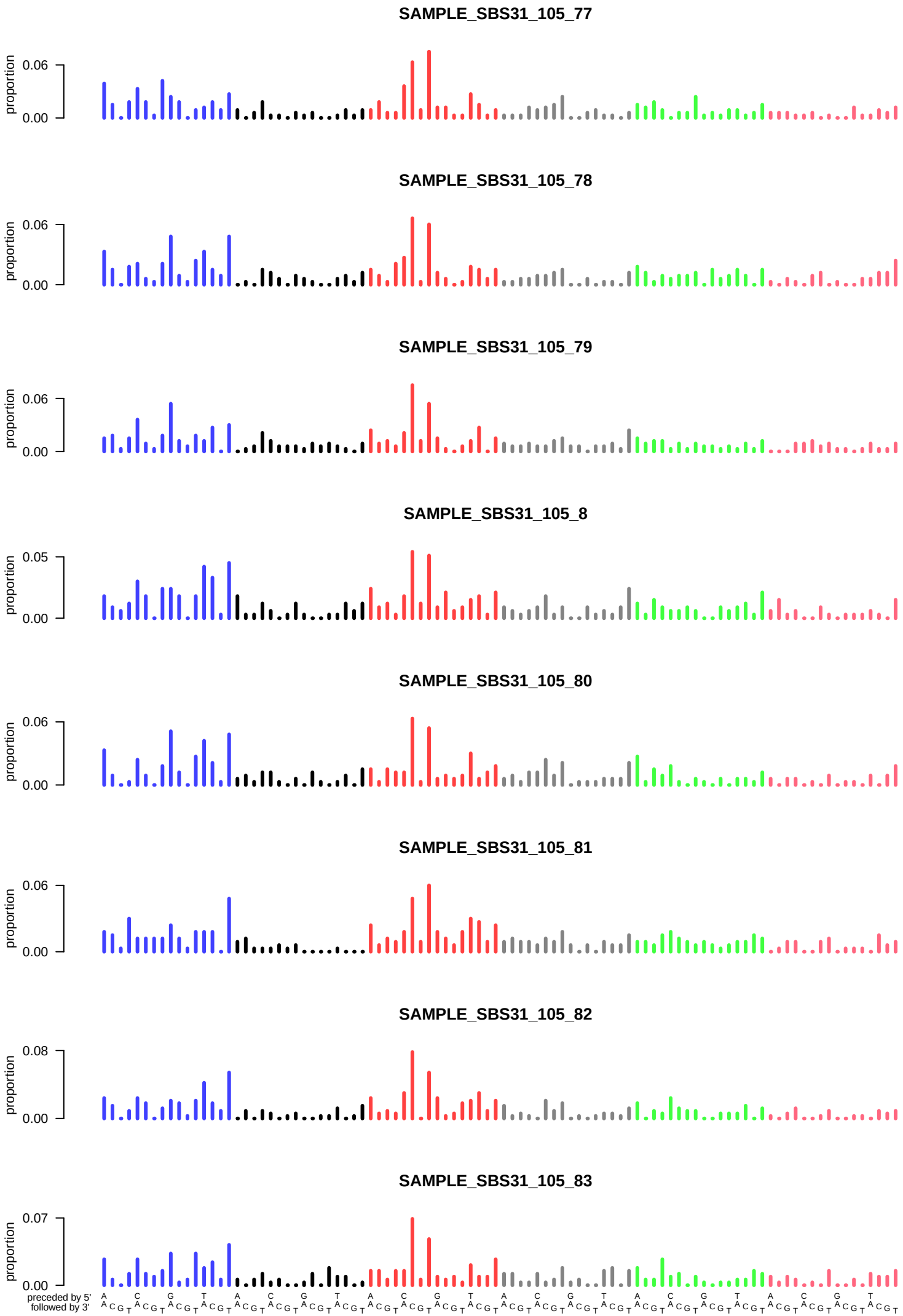
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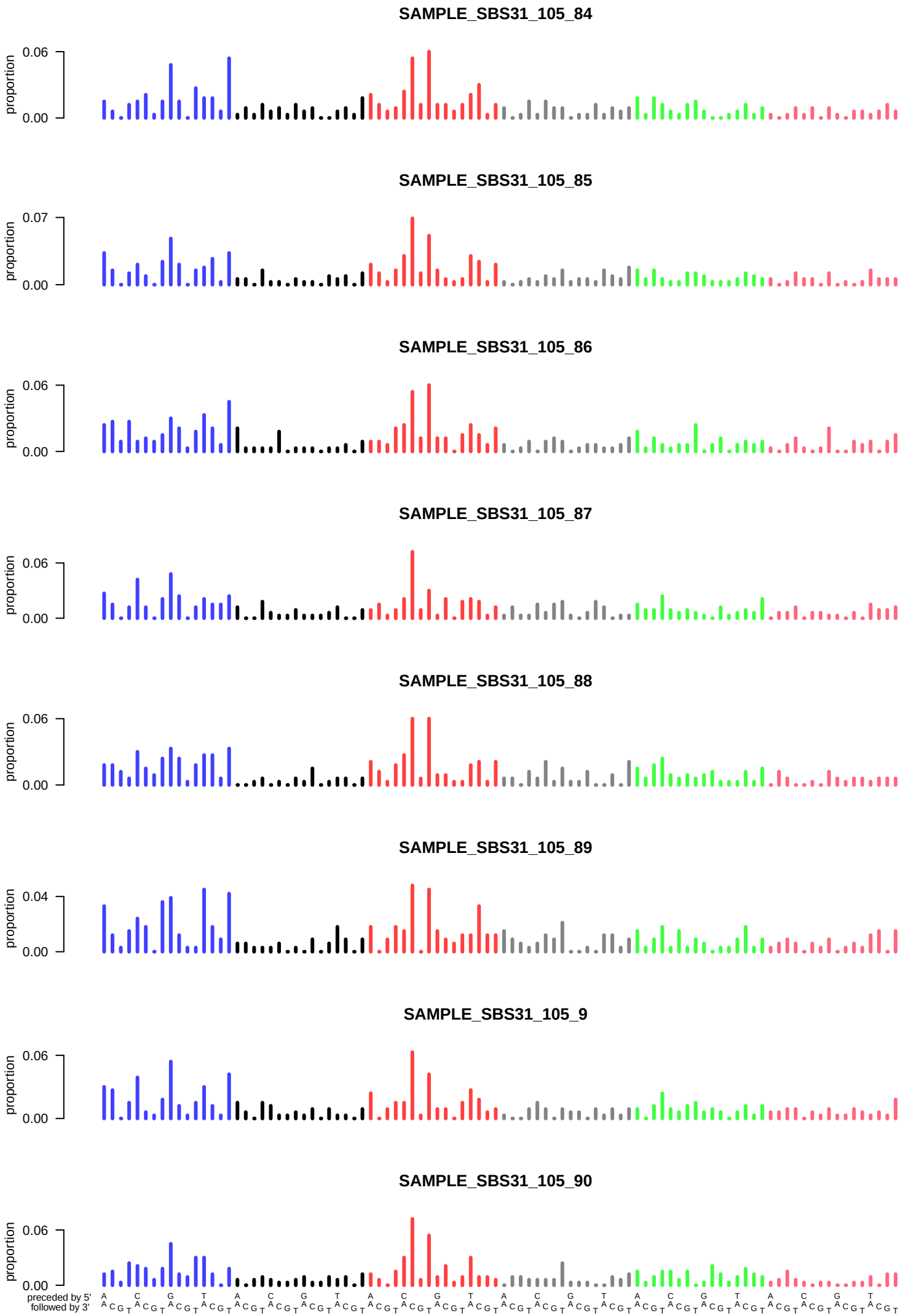
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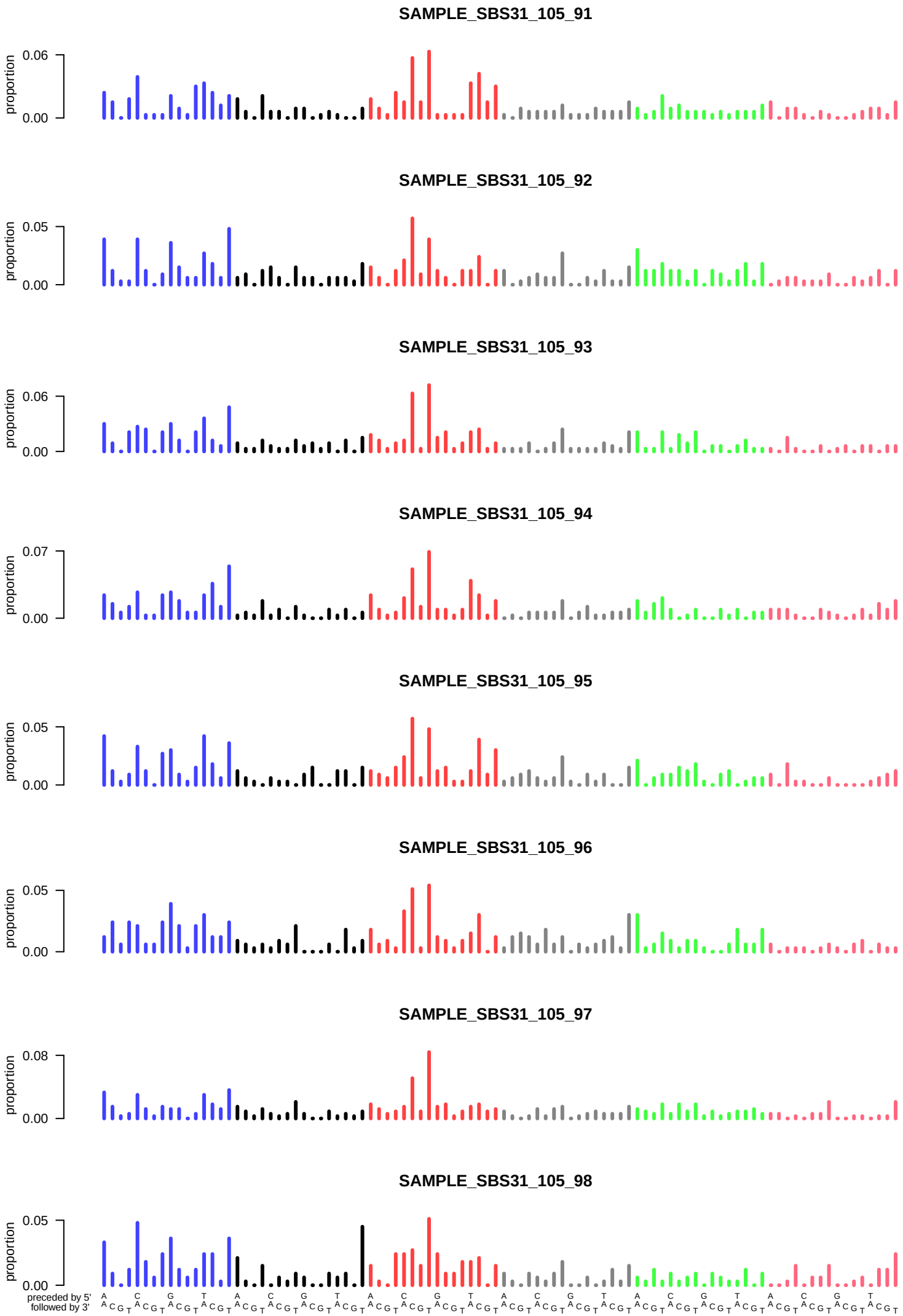
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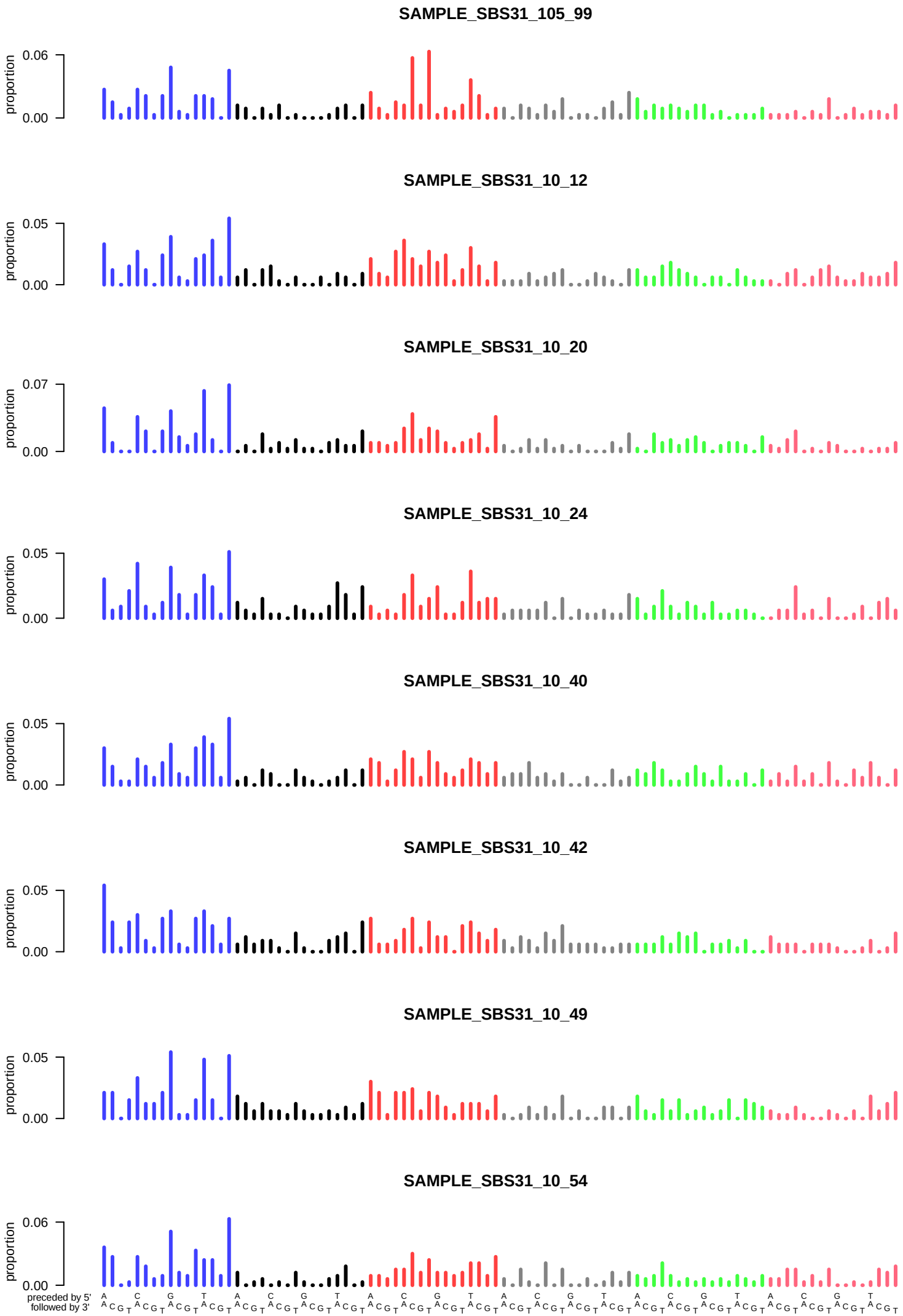
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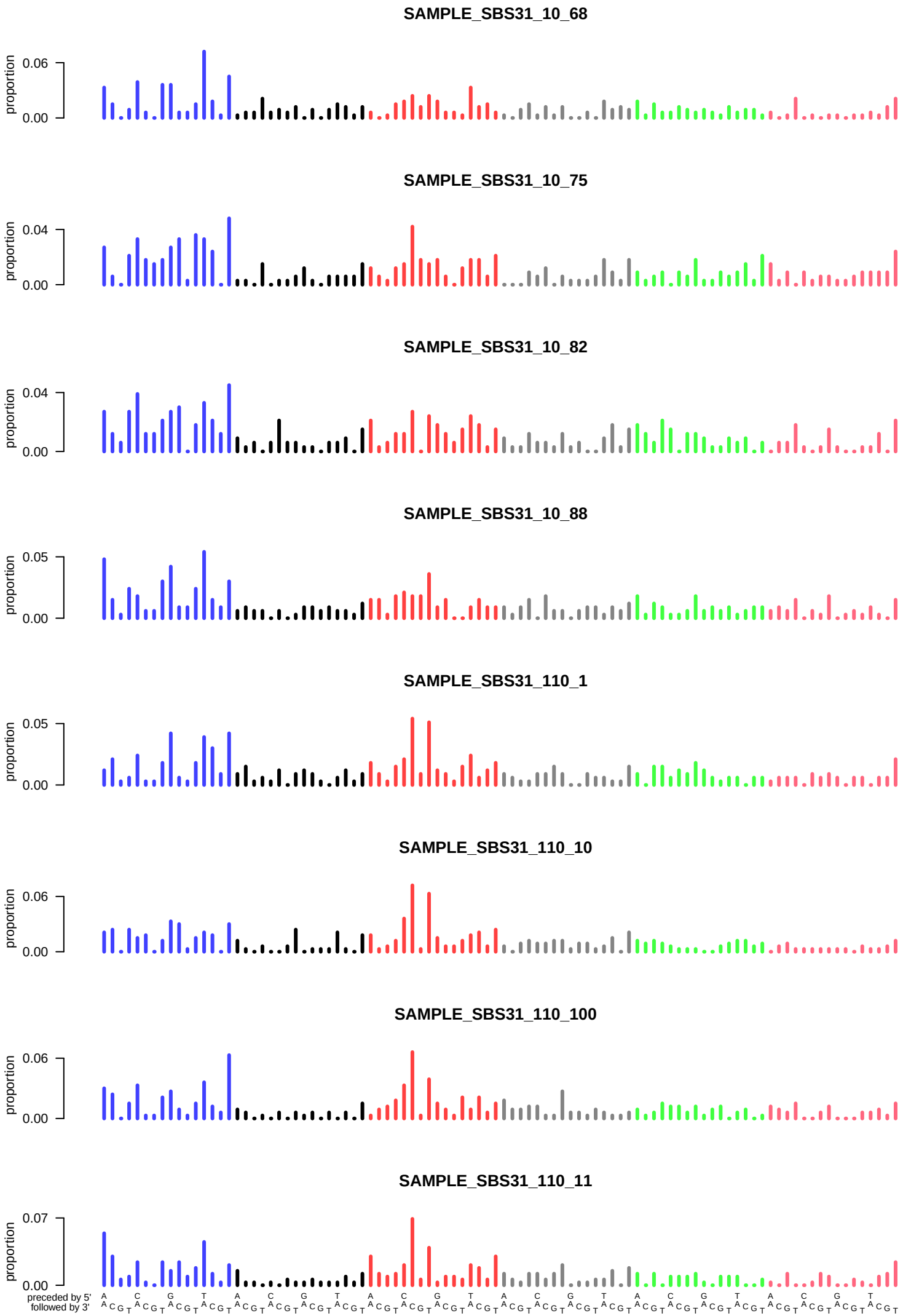
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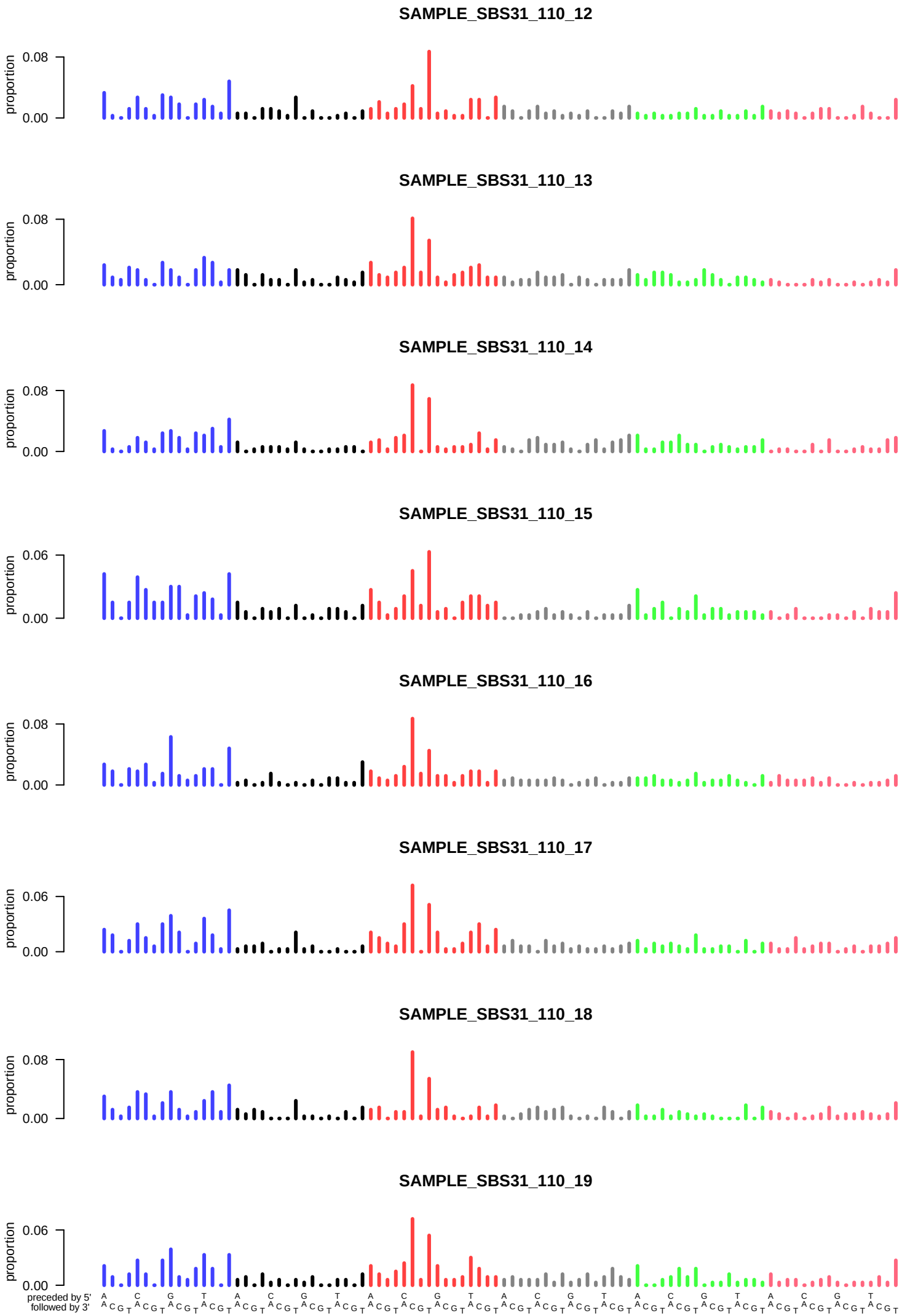
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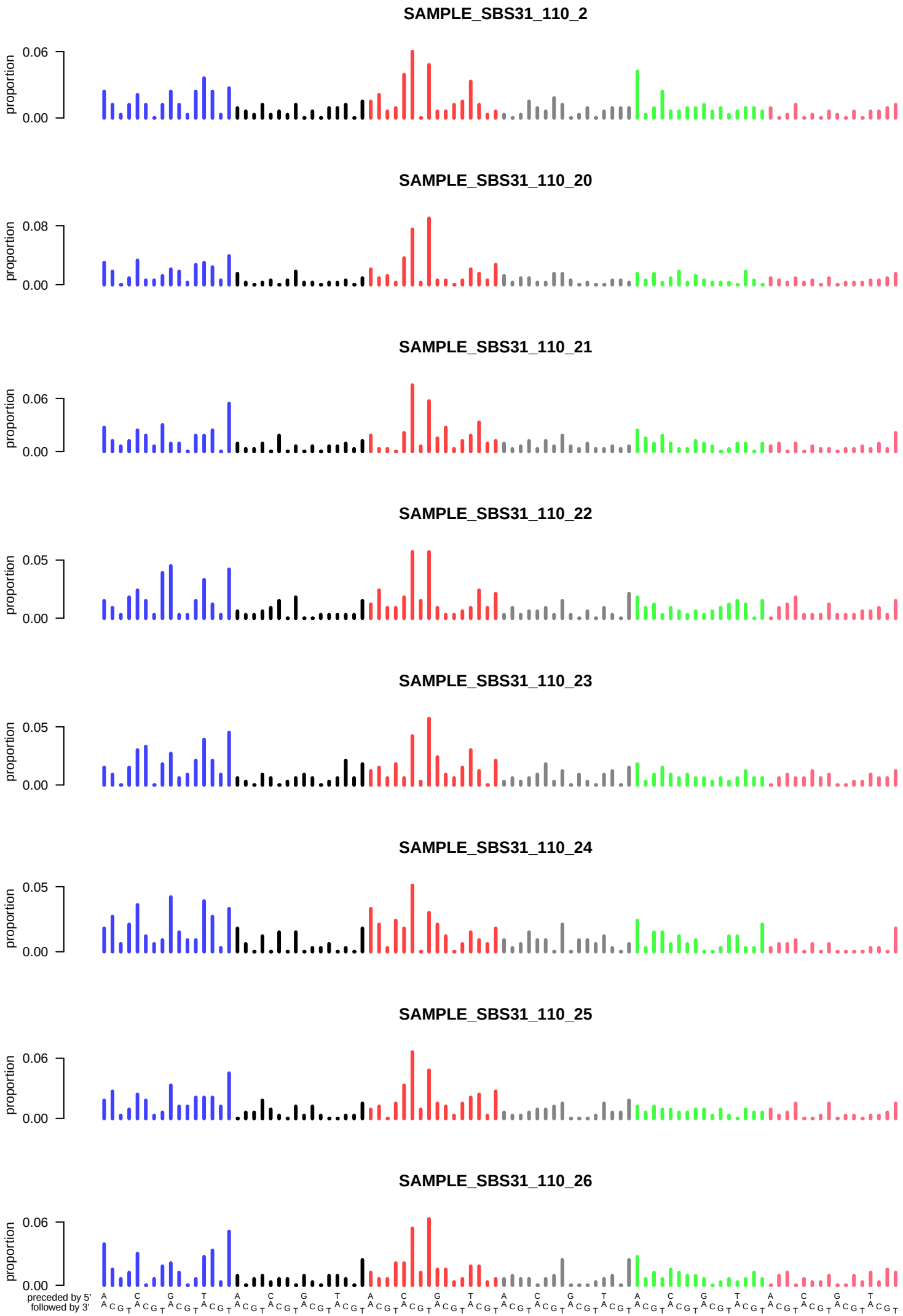
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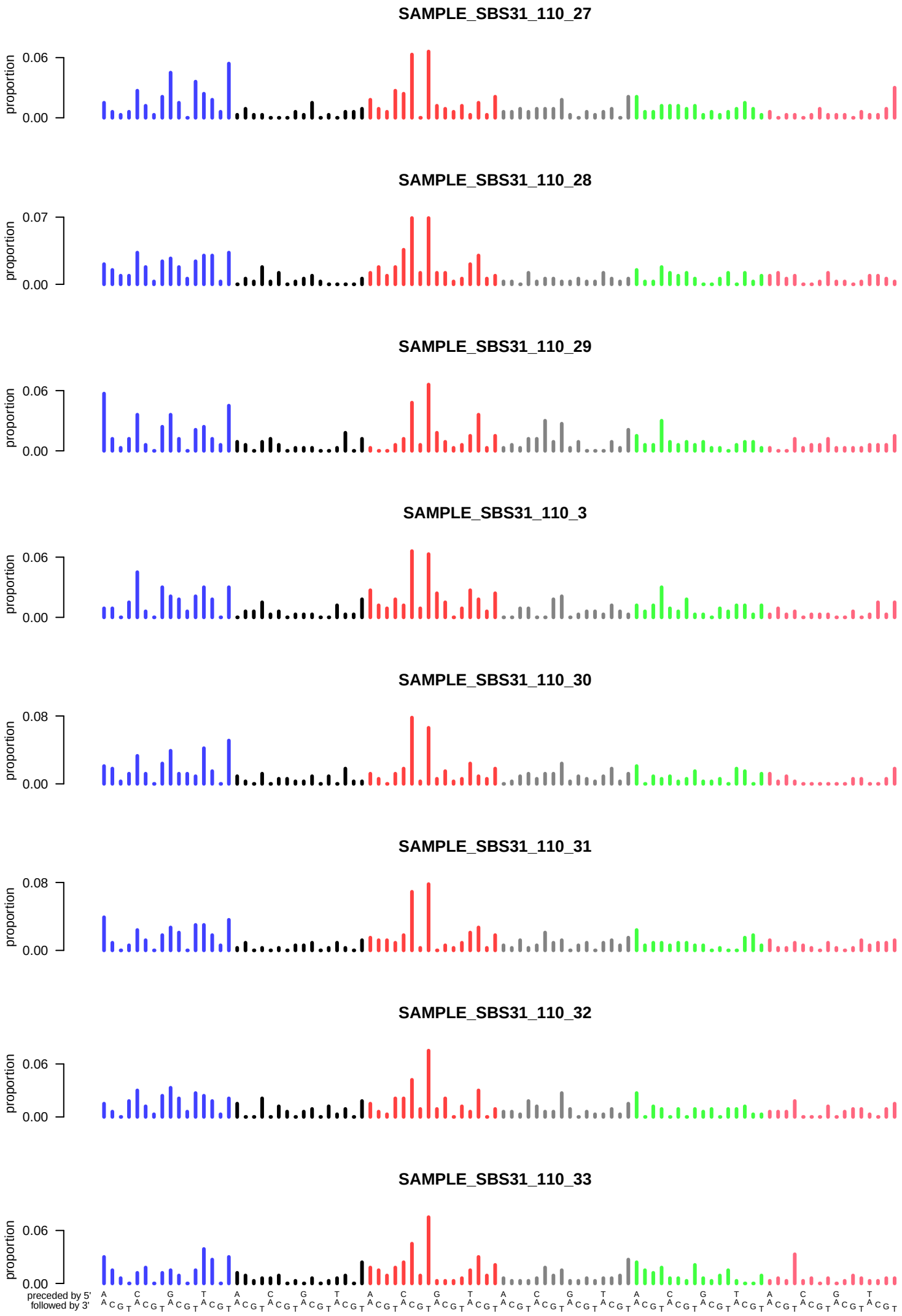
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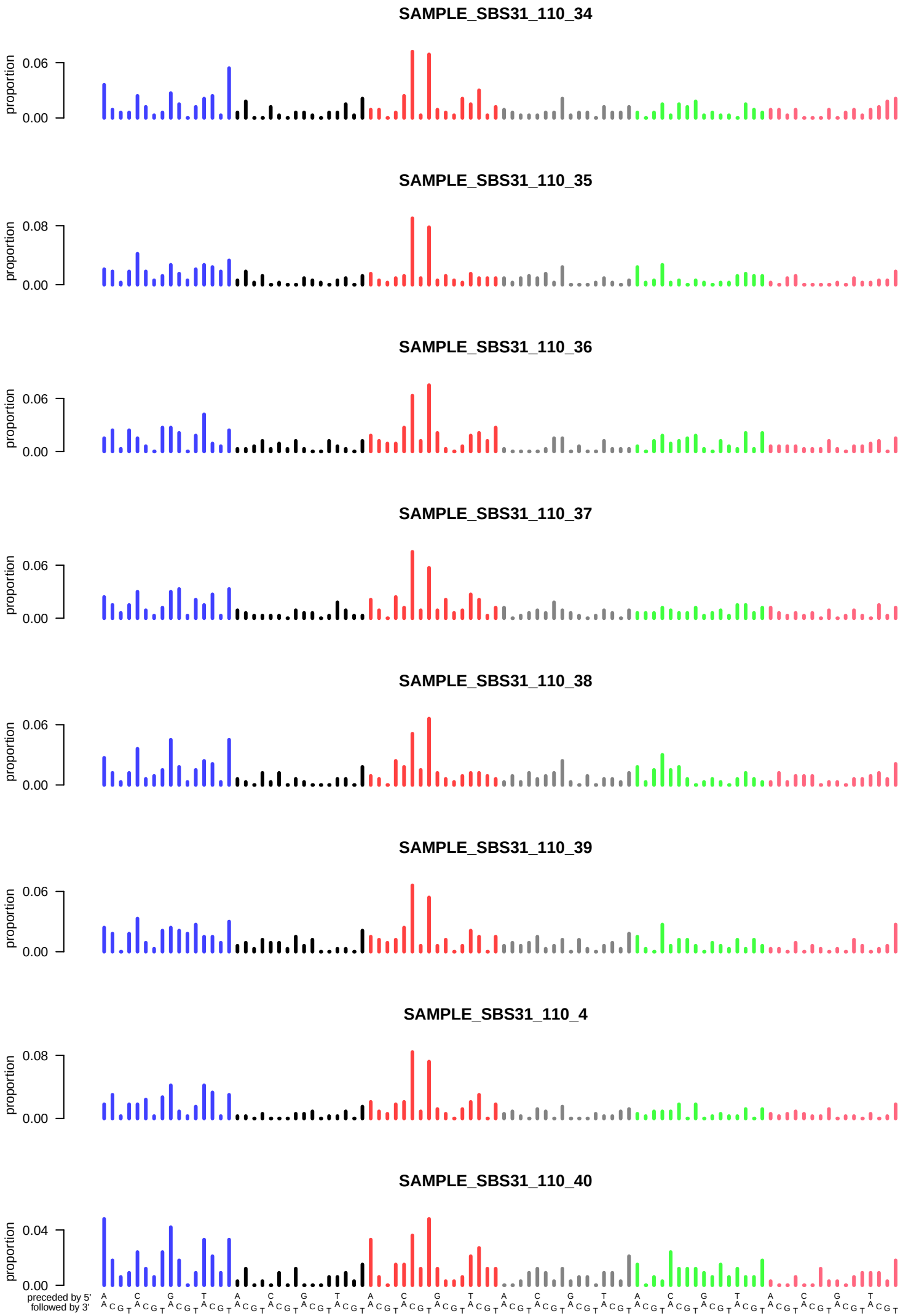
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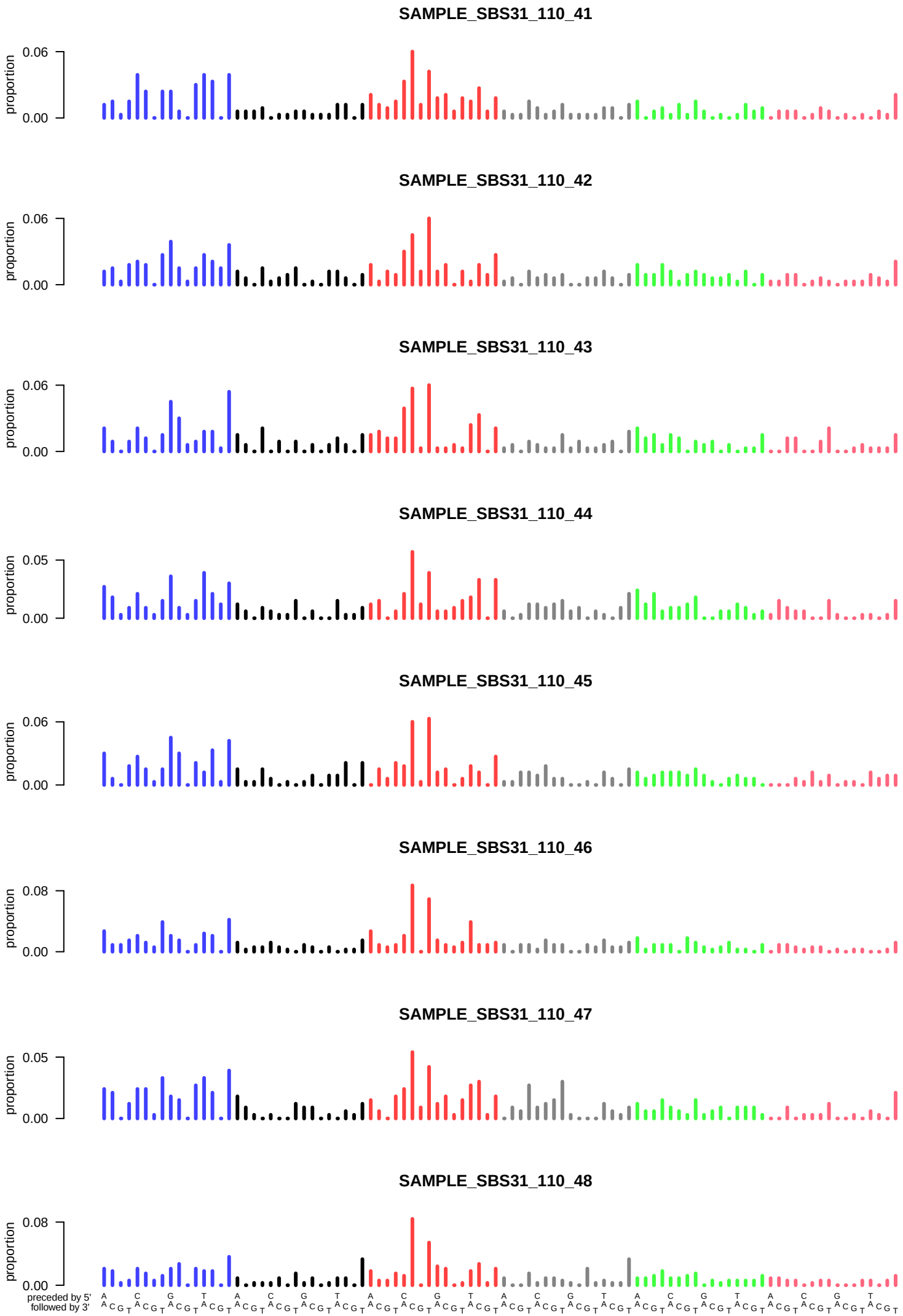
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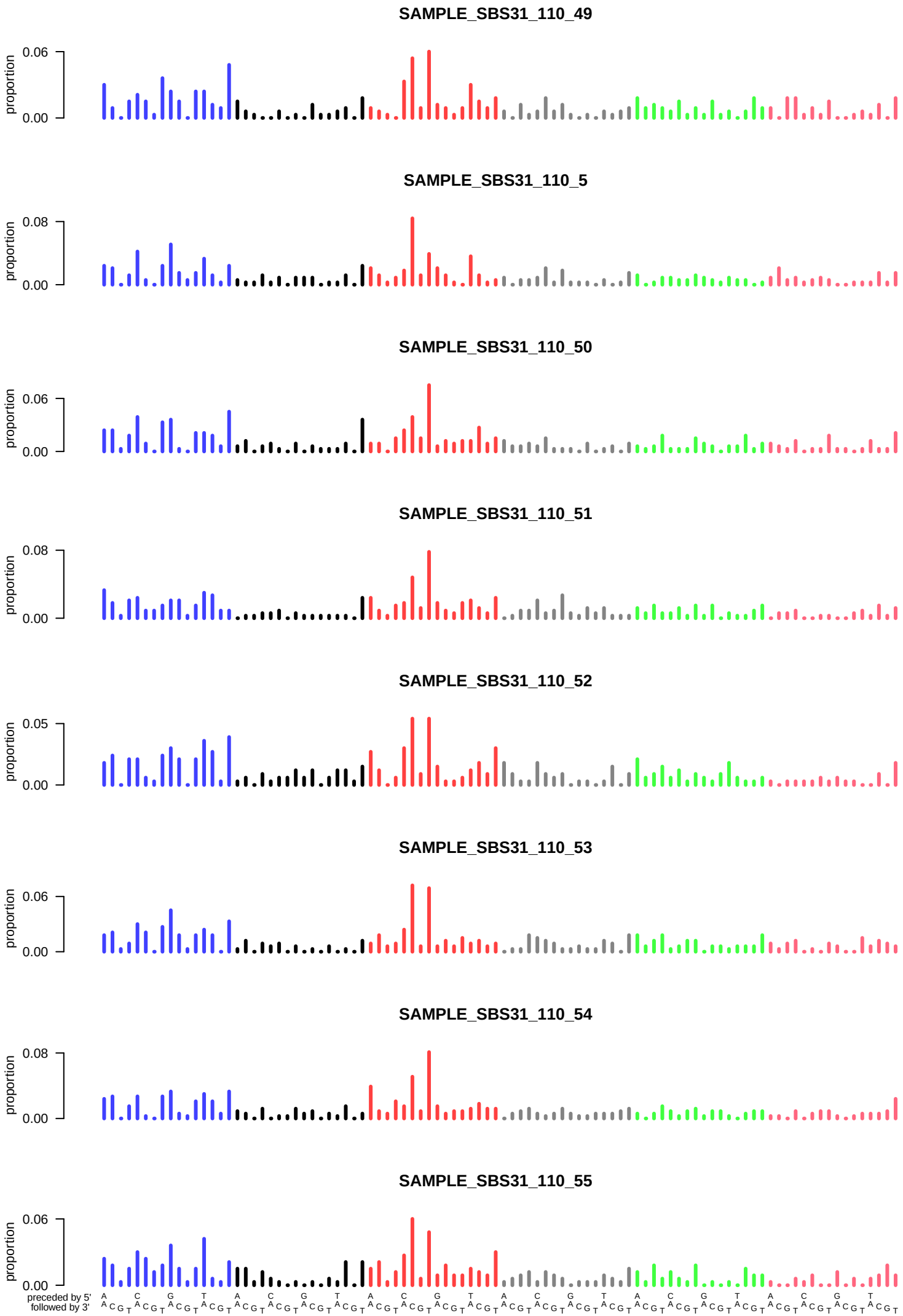
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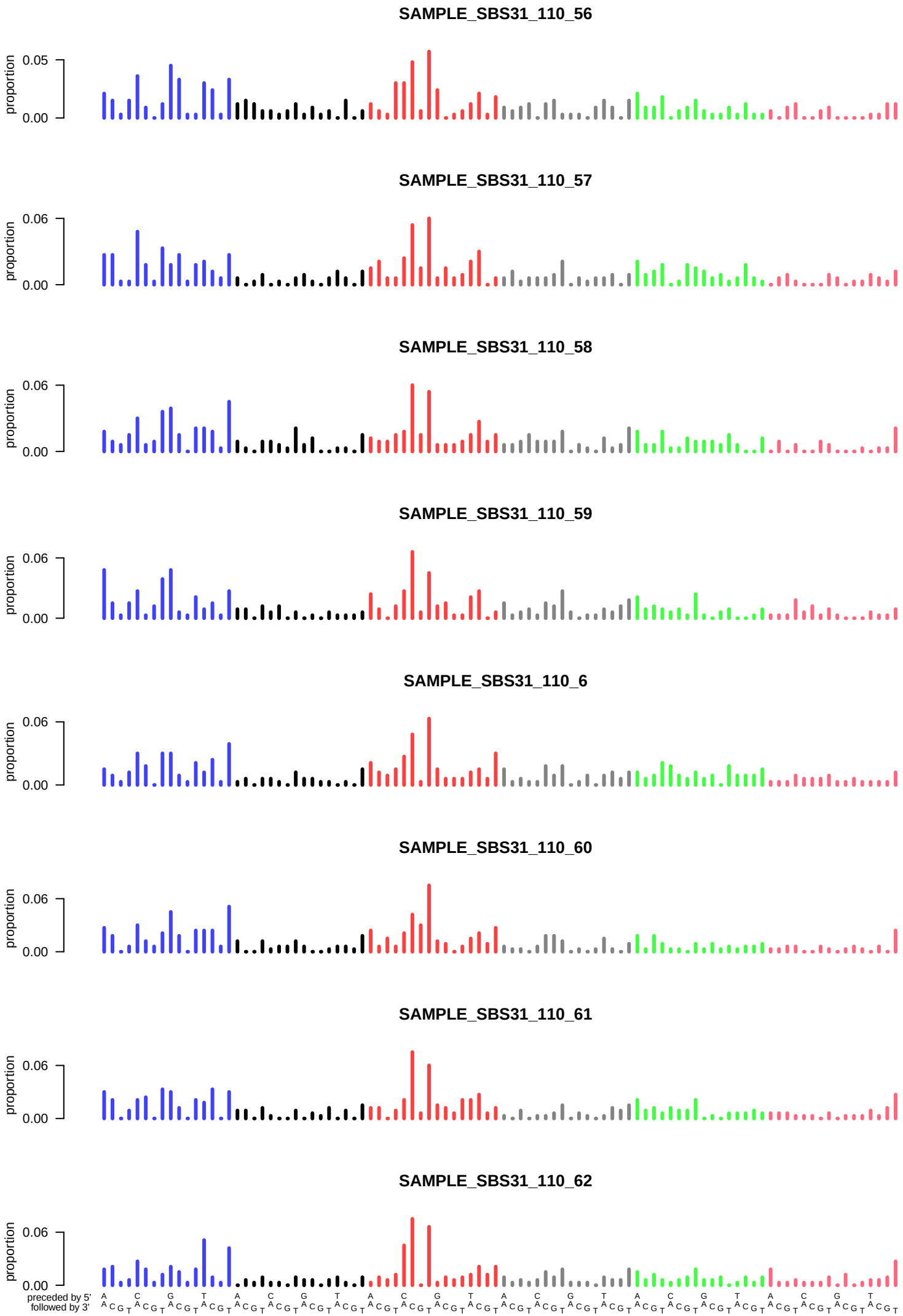
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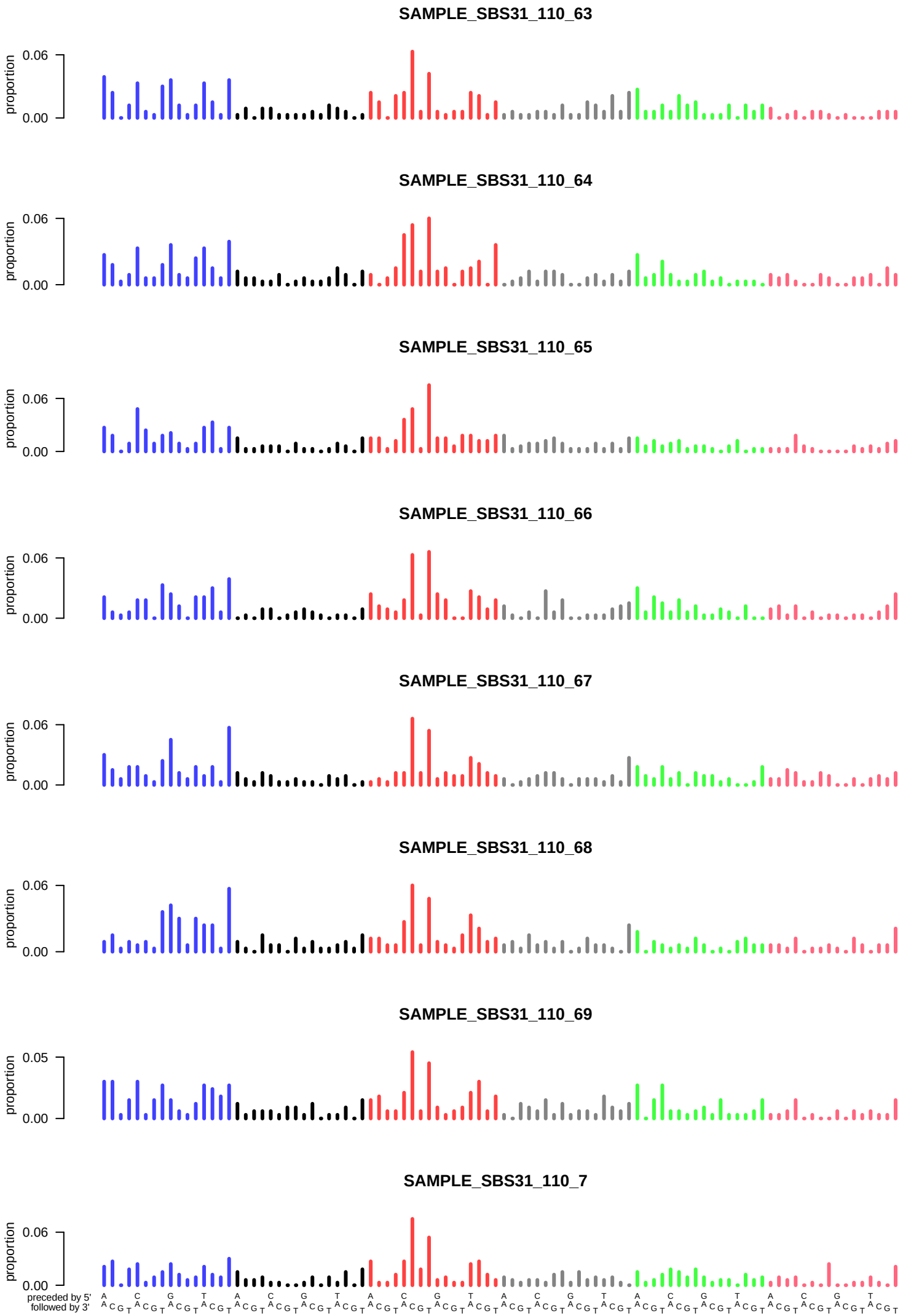
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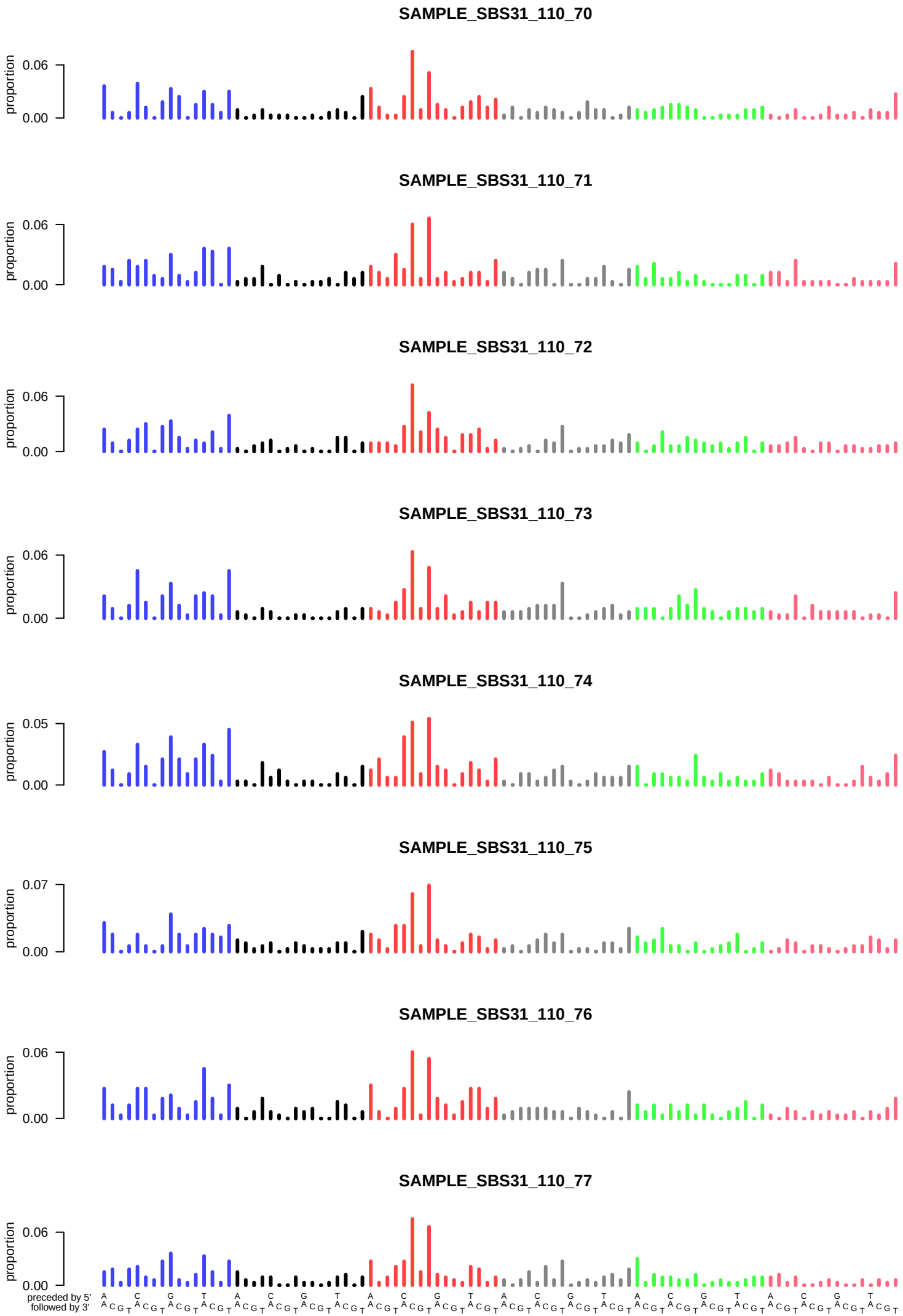
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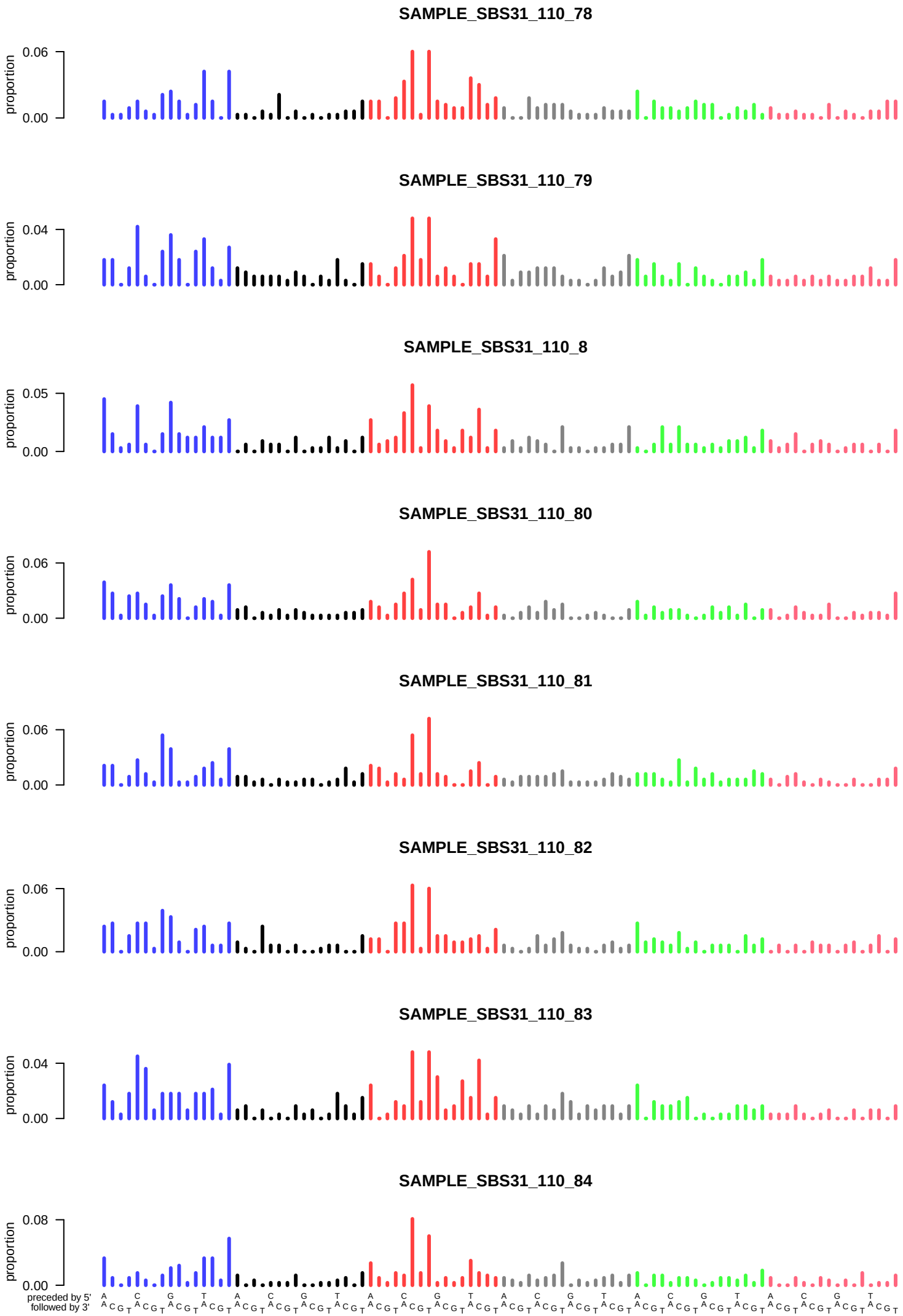
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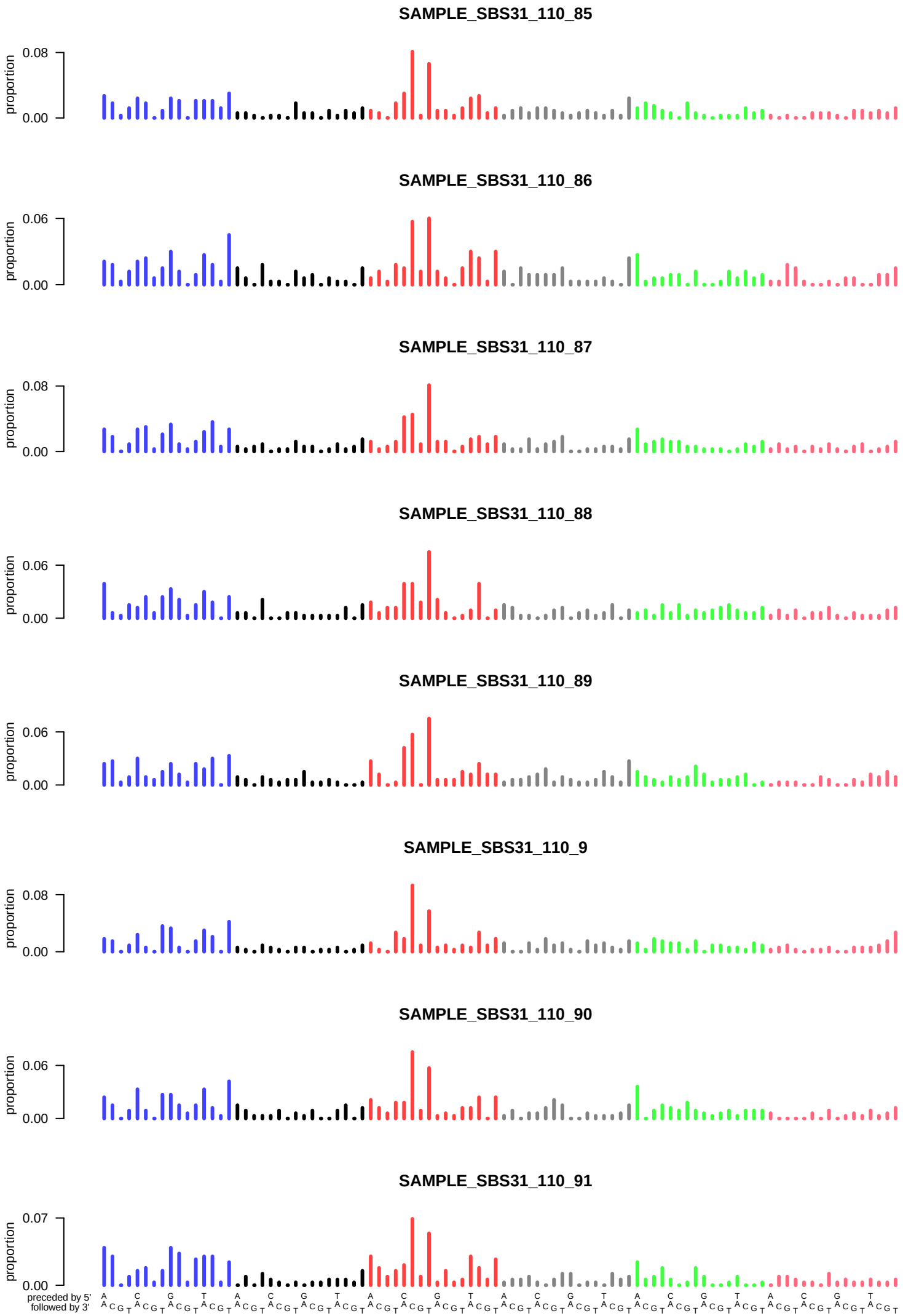
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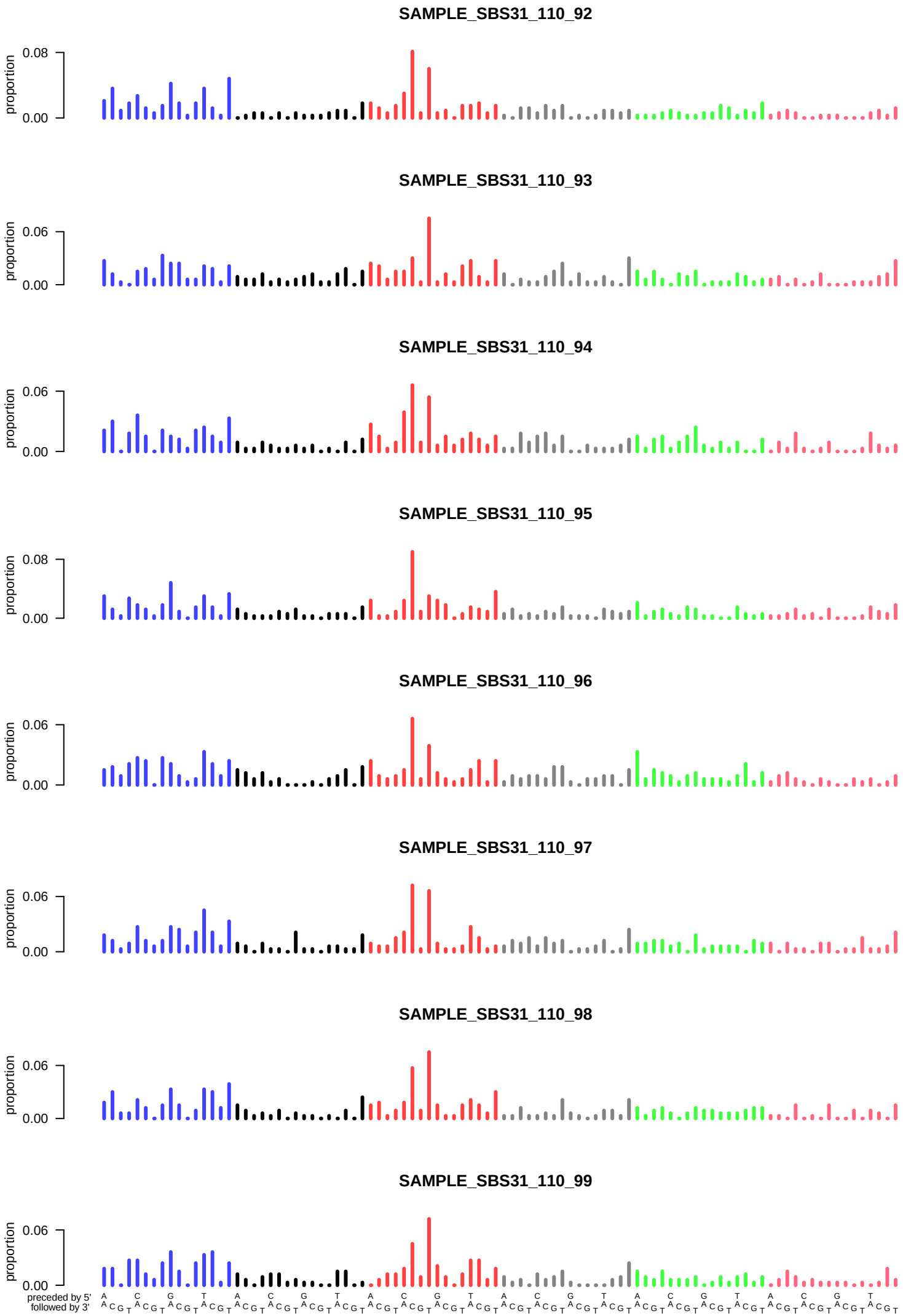
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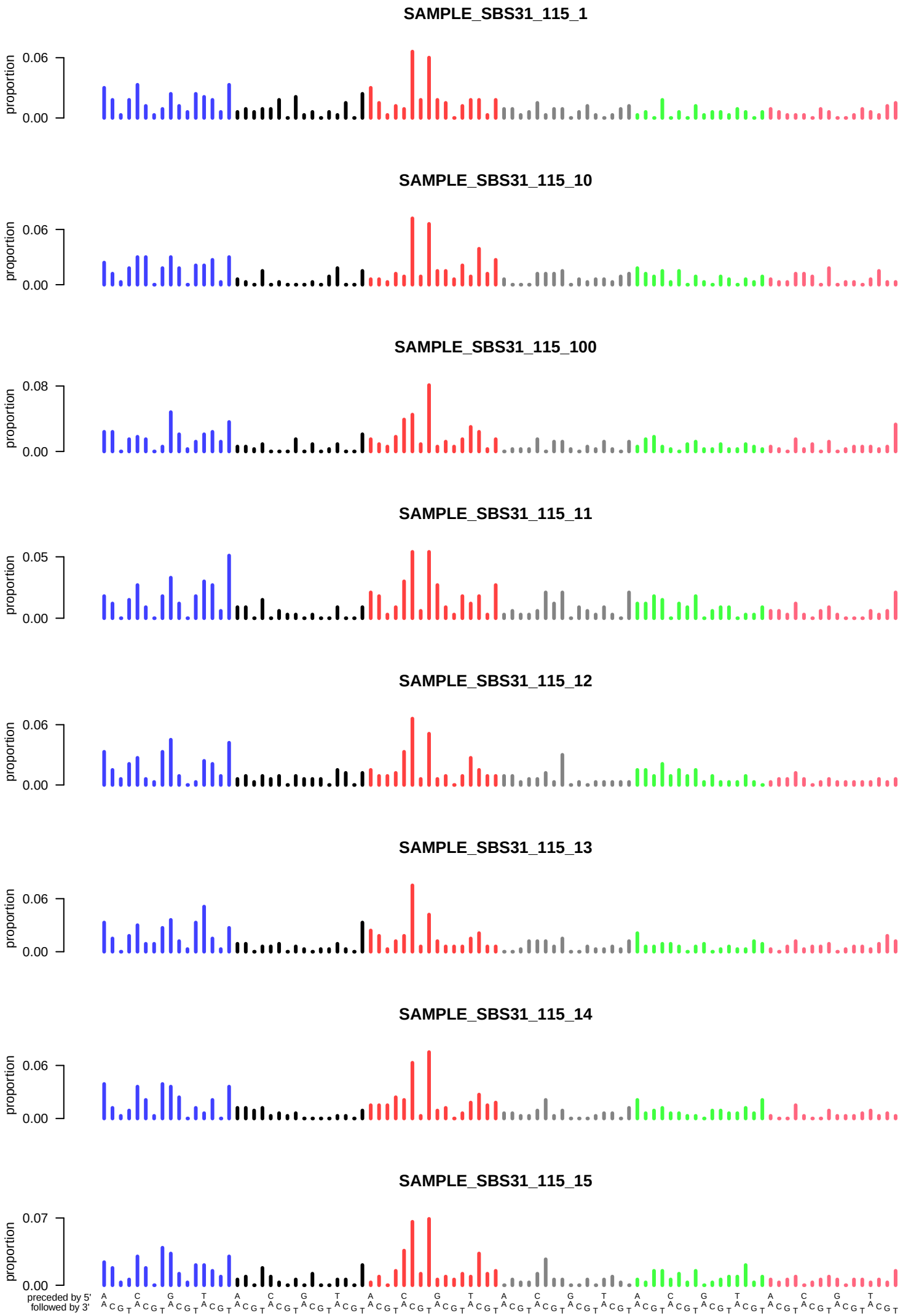
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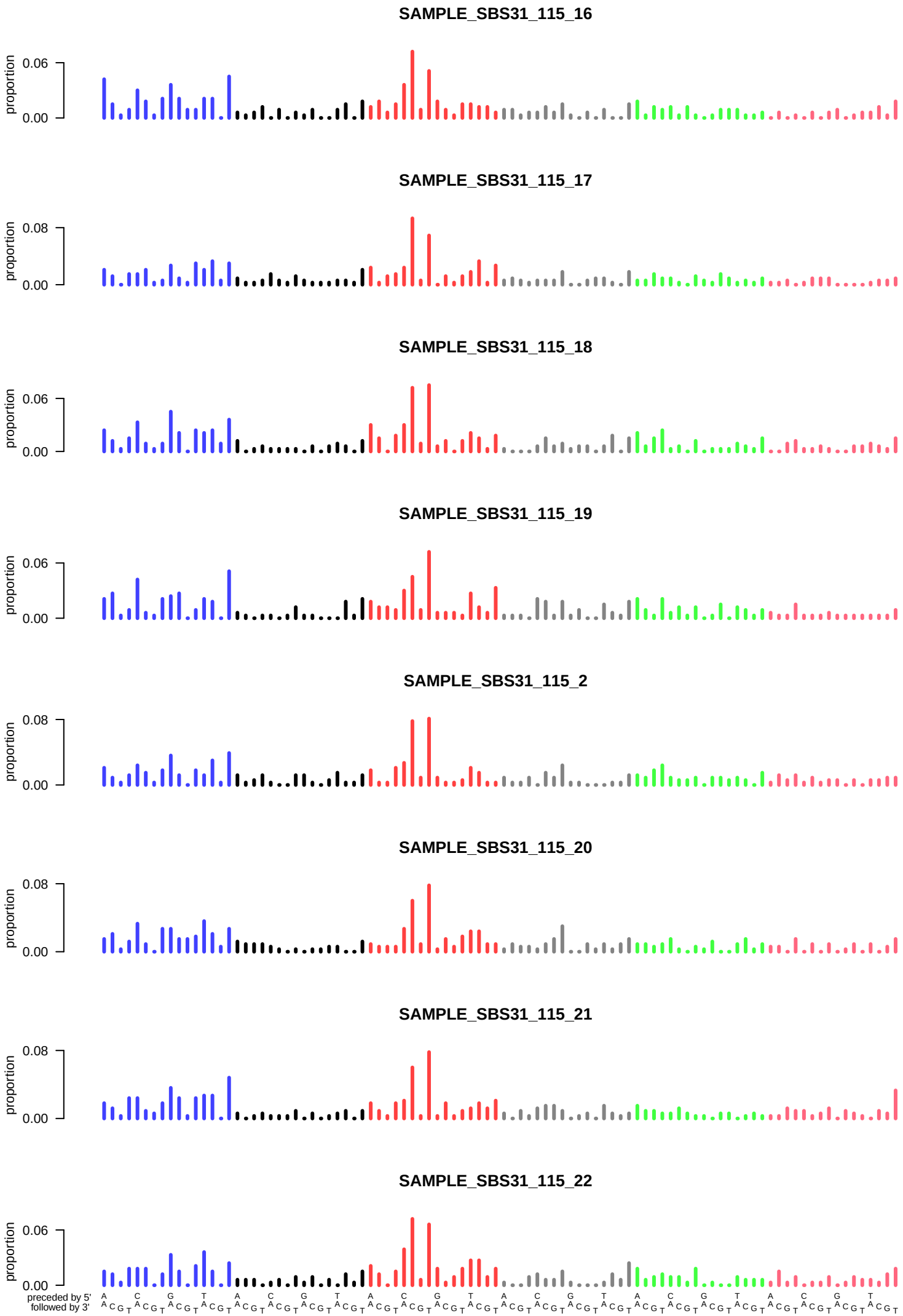
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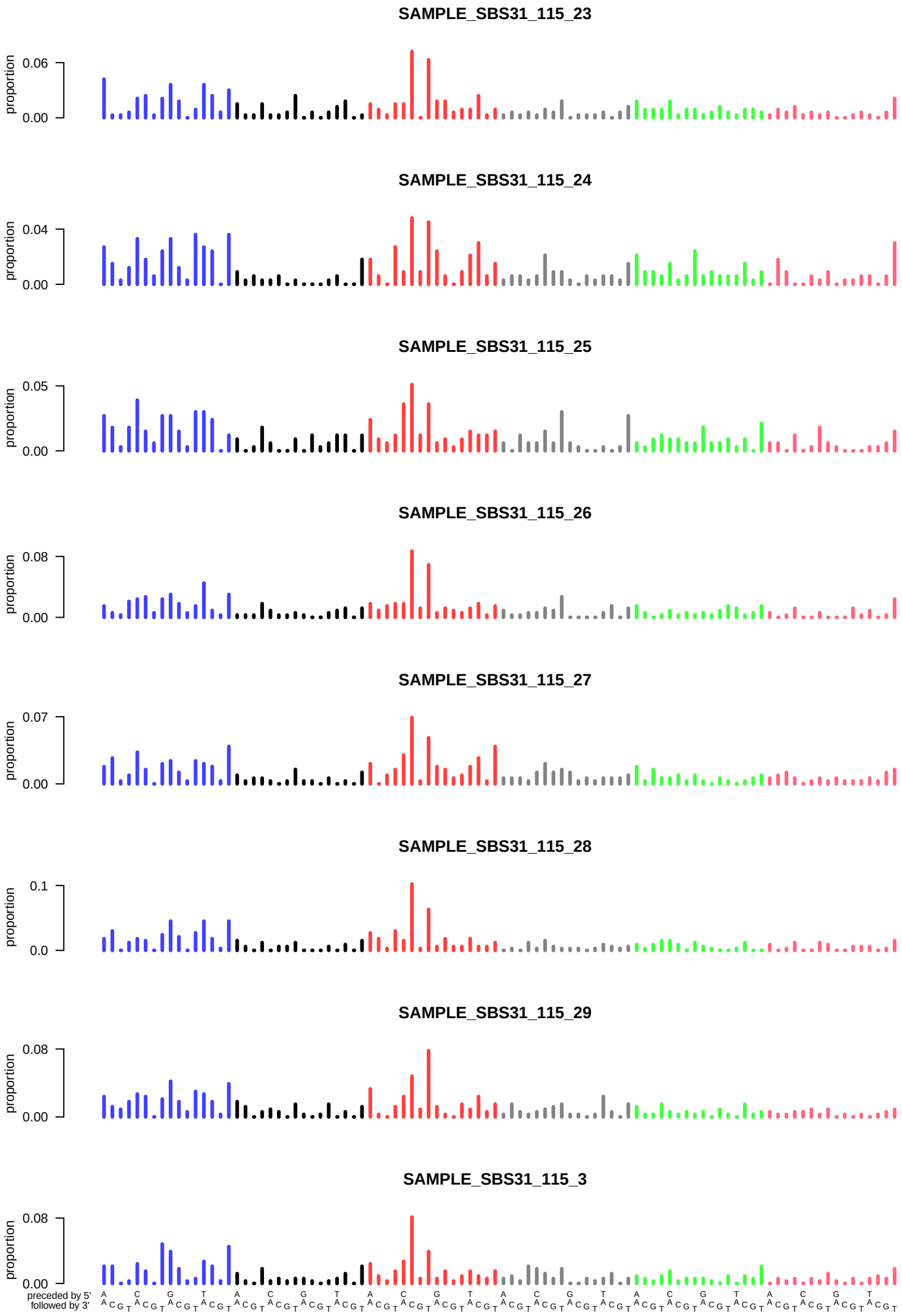
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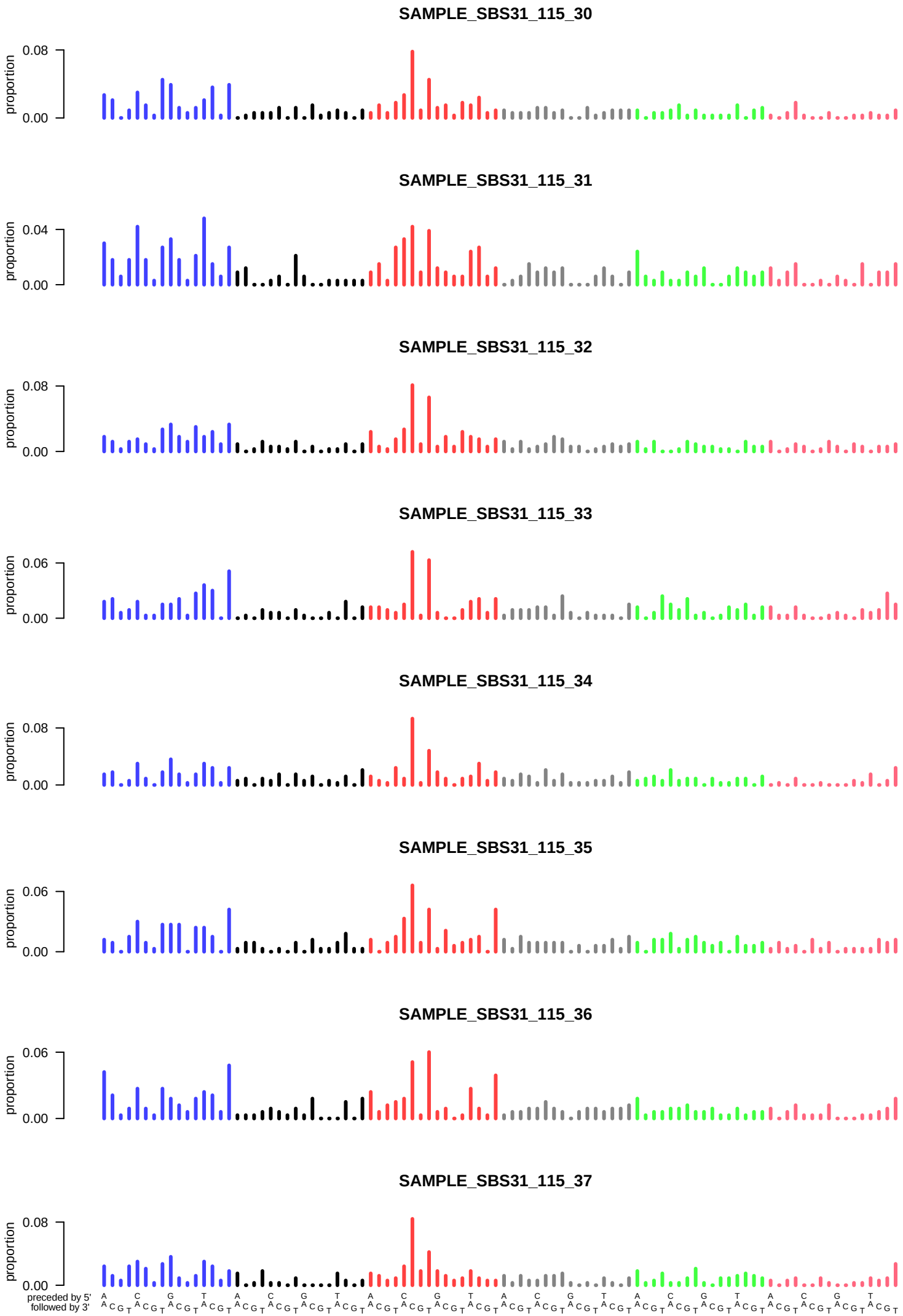
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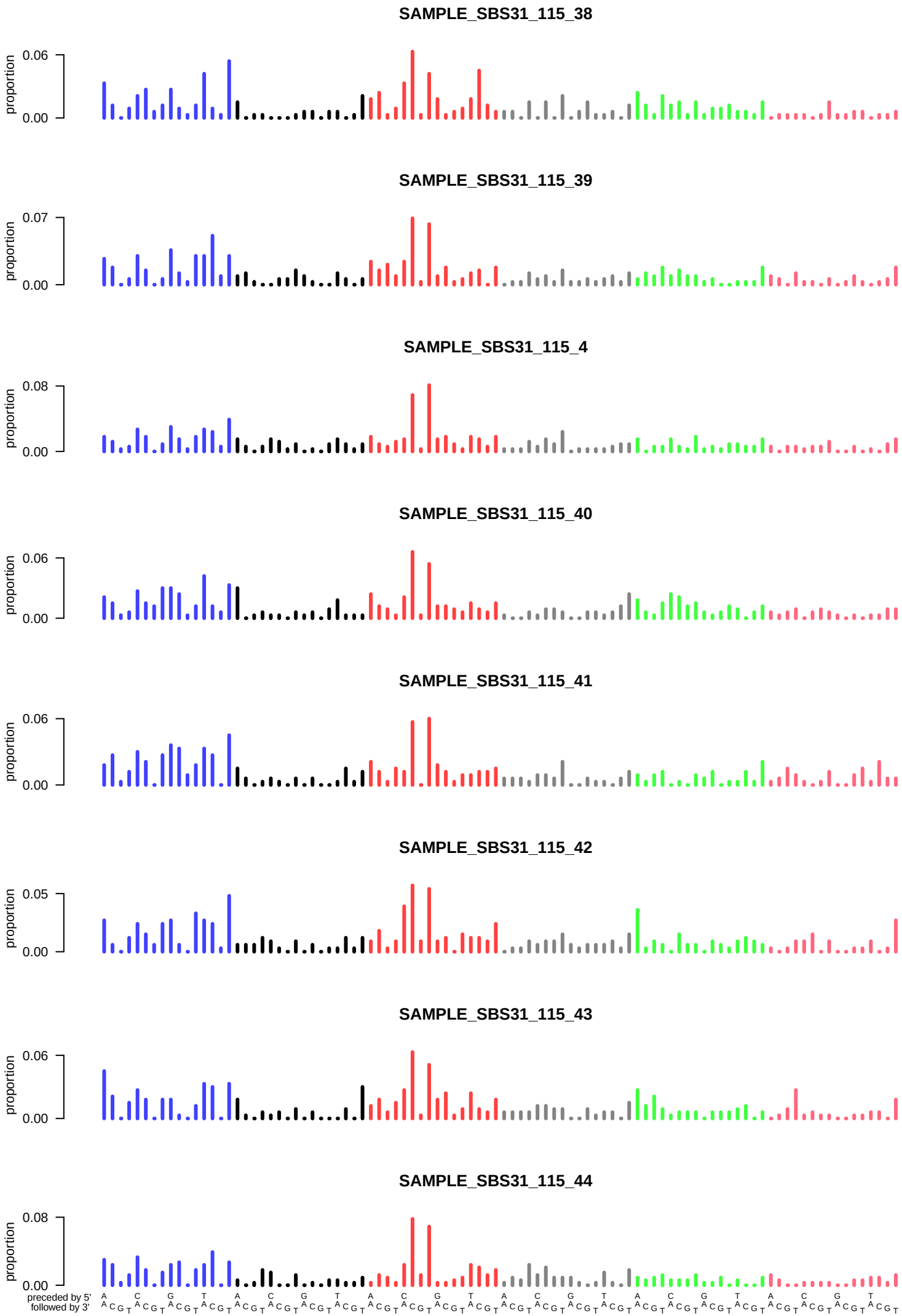
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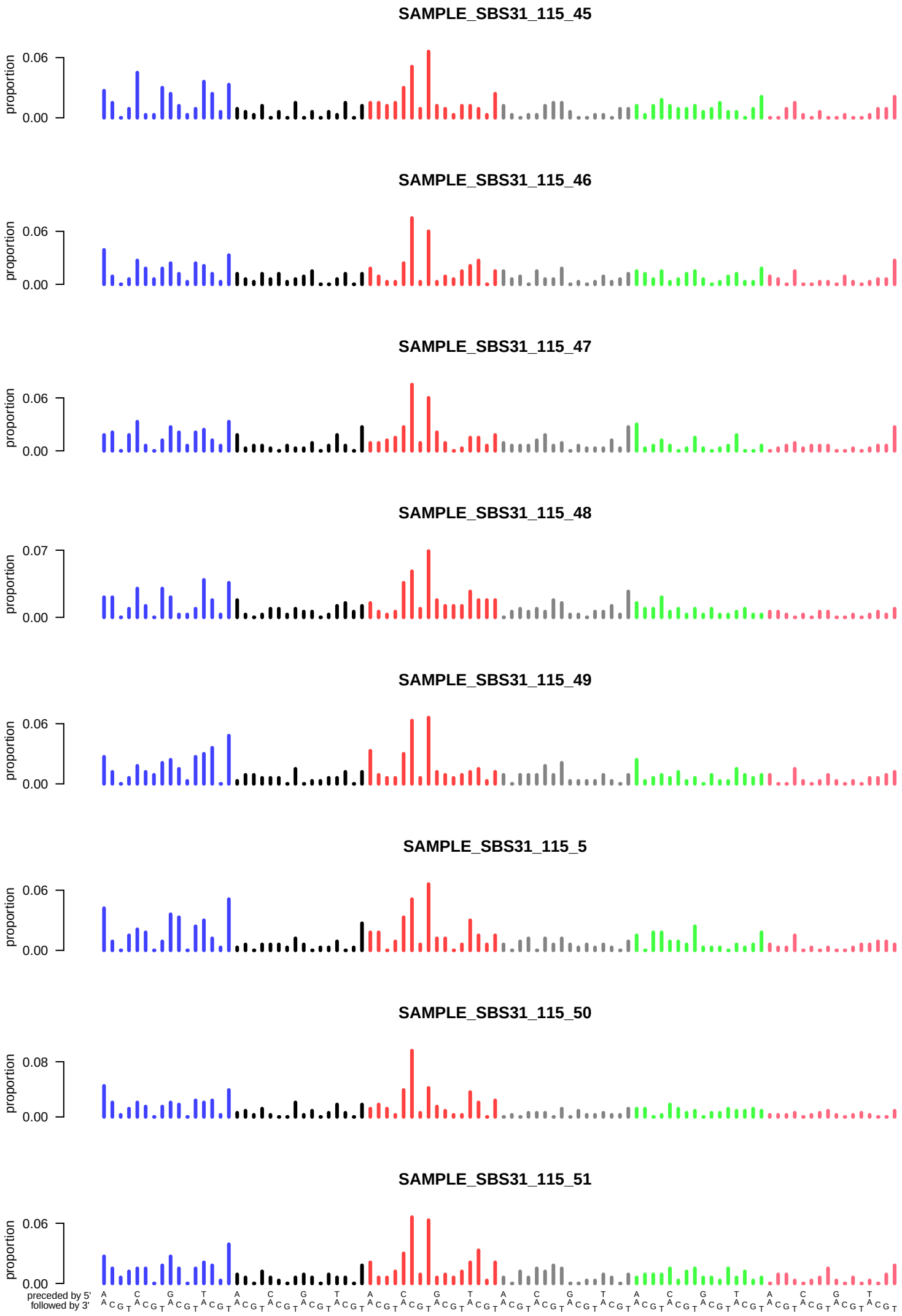
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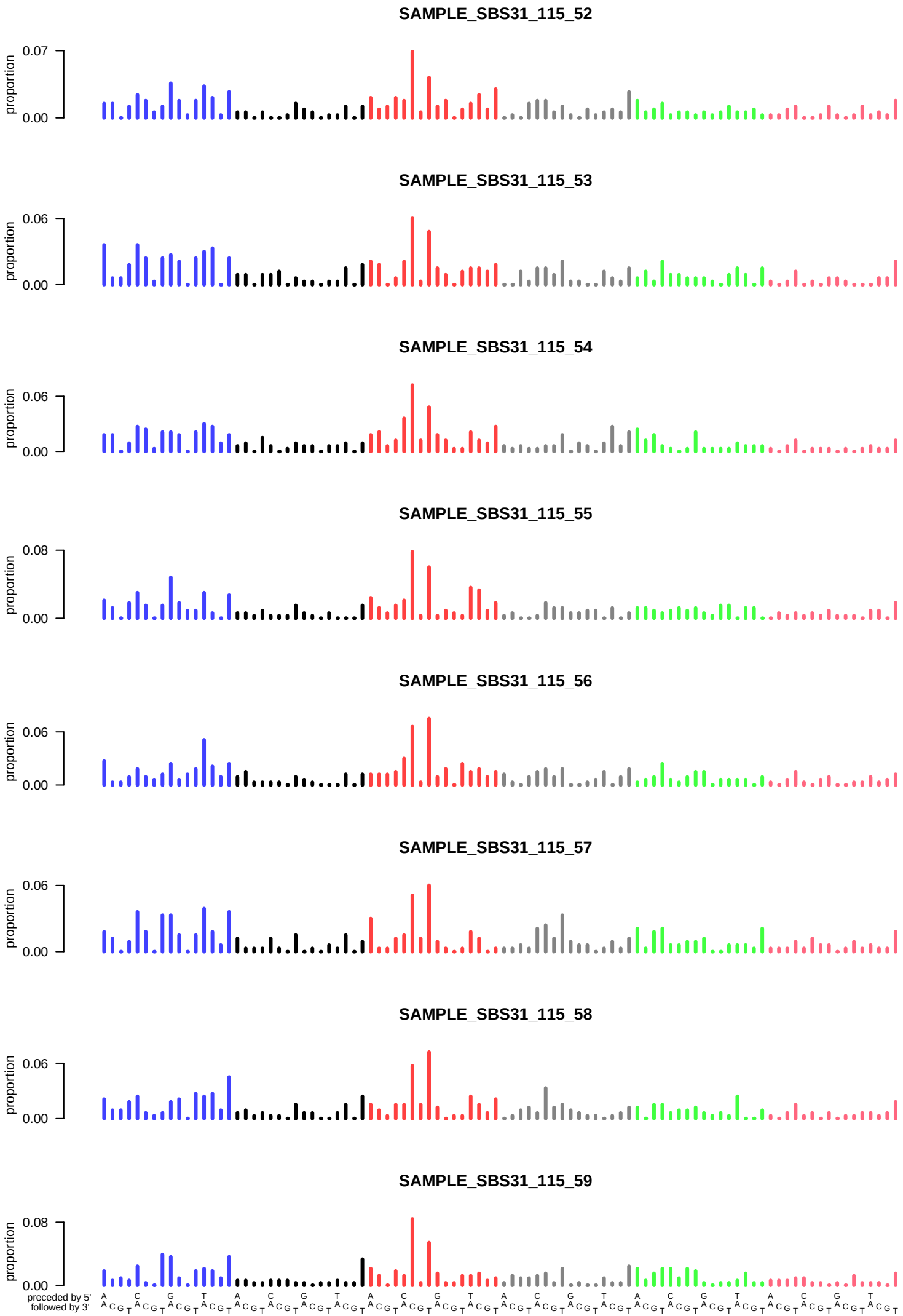
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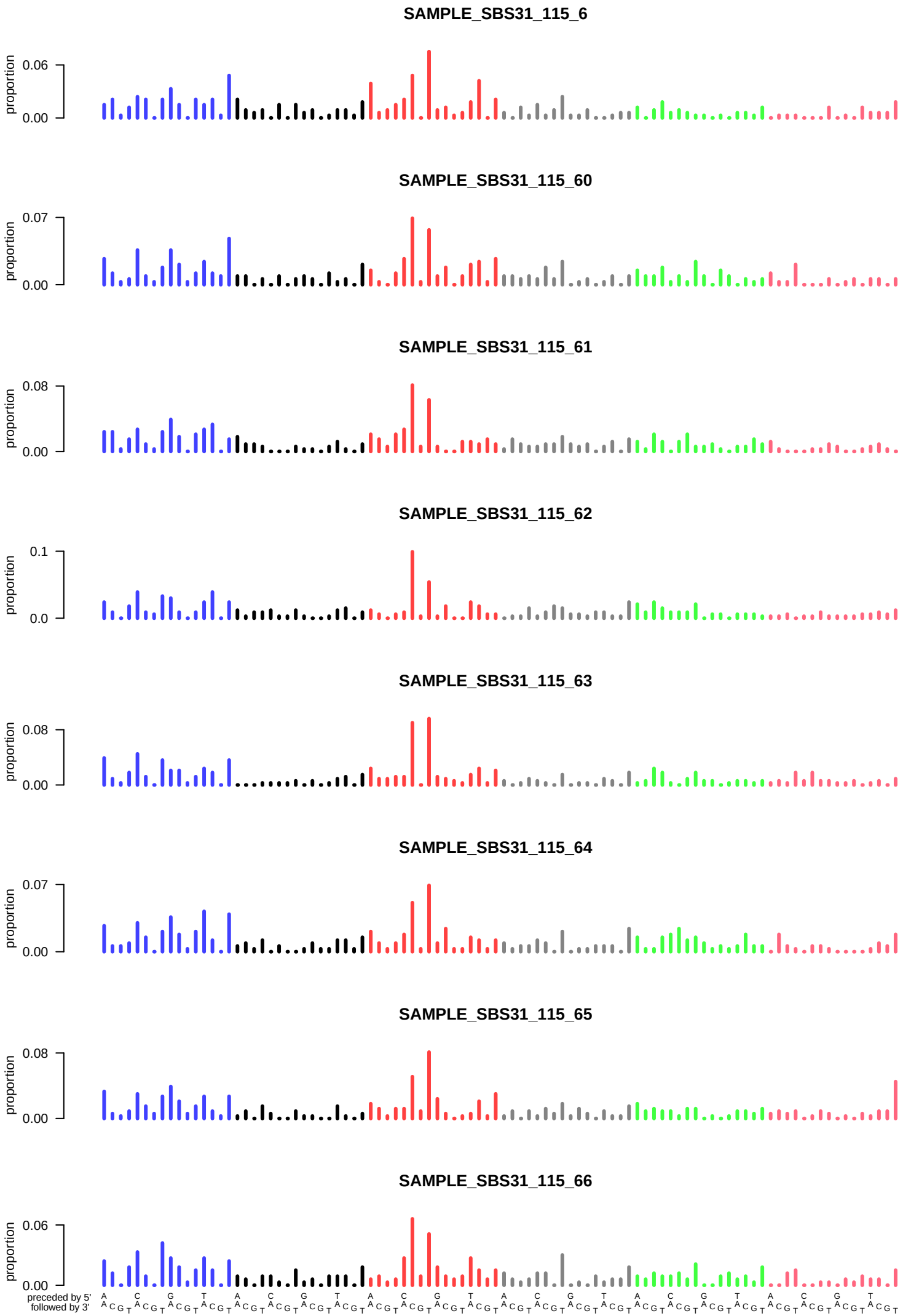
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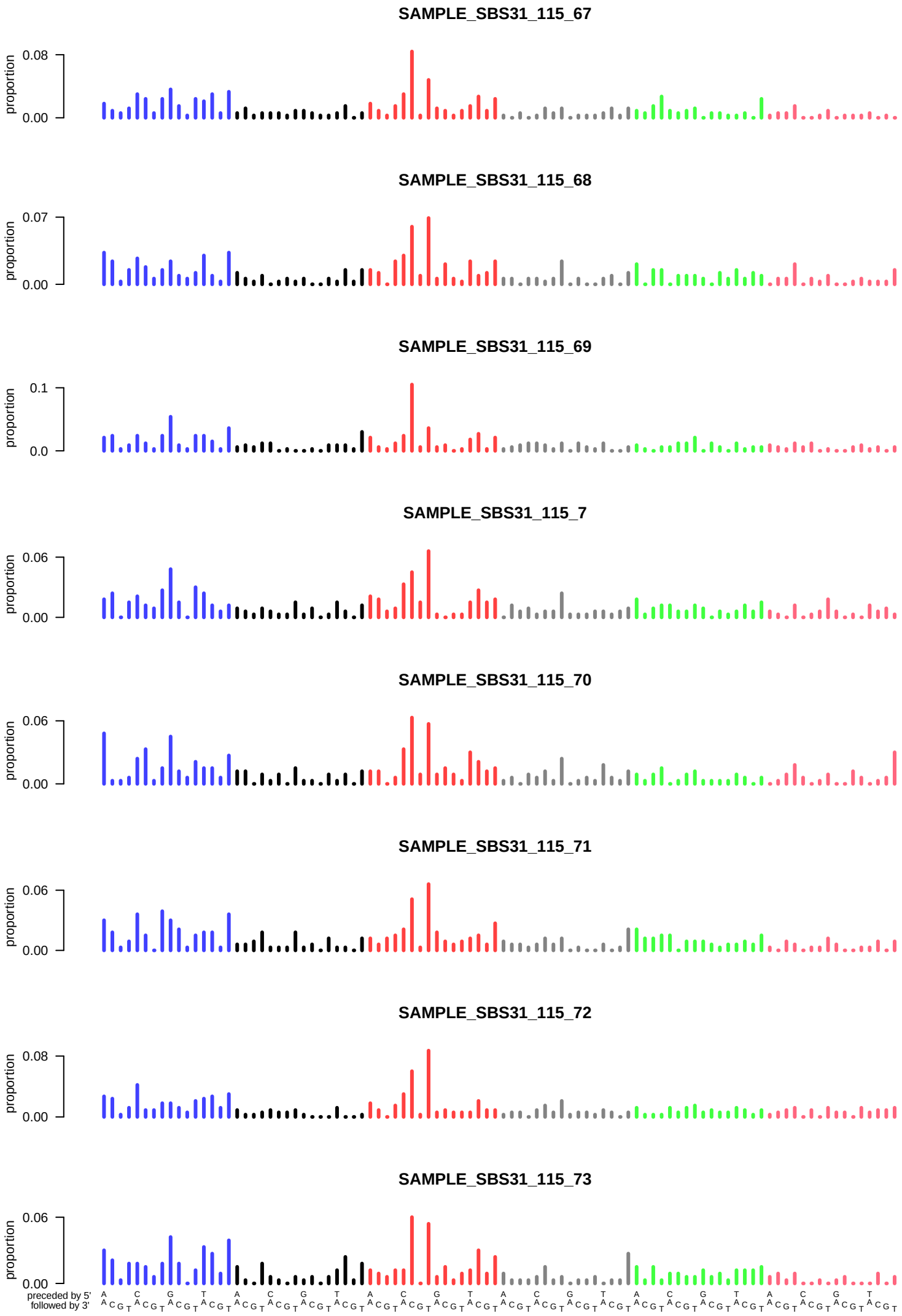
followed by 3'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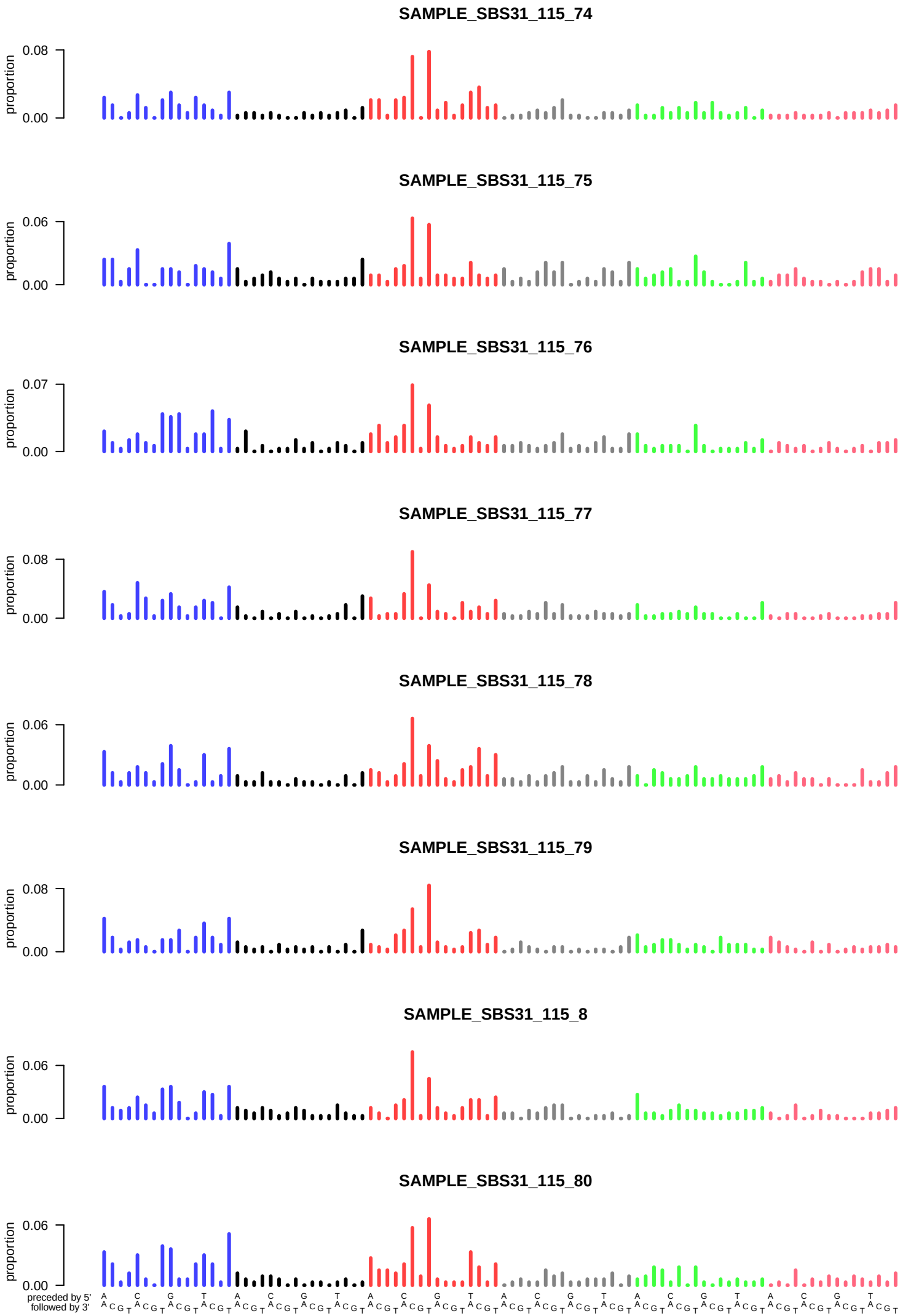
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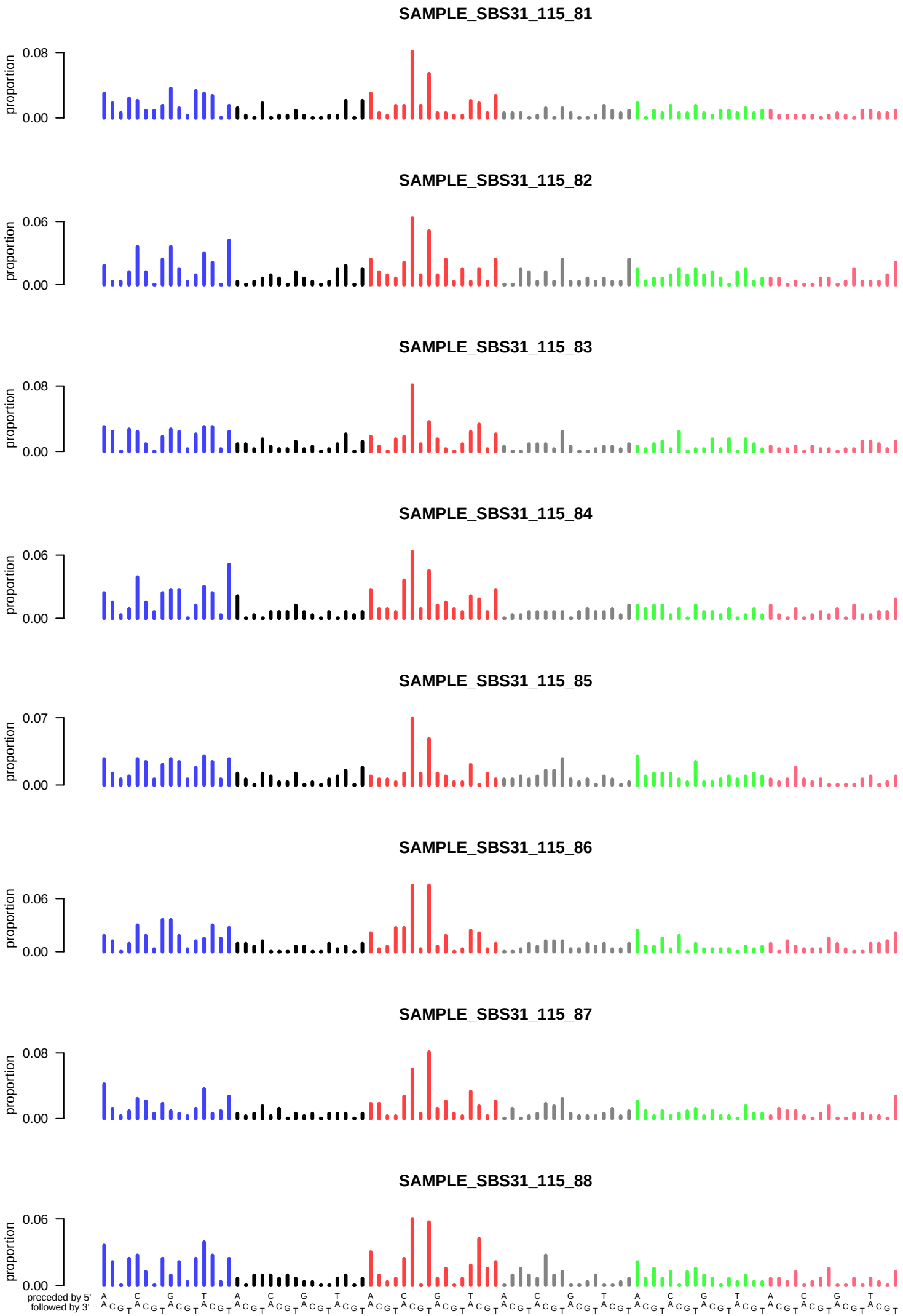
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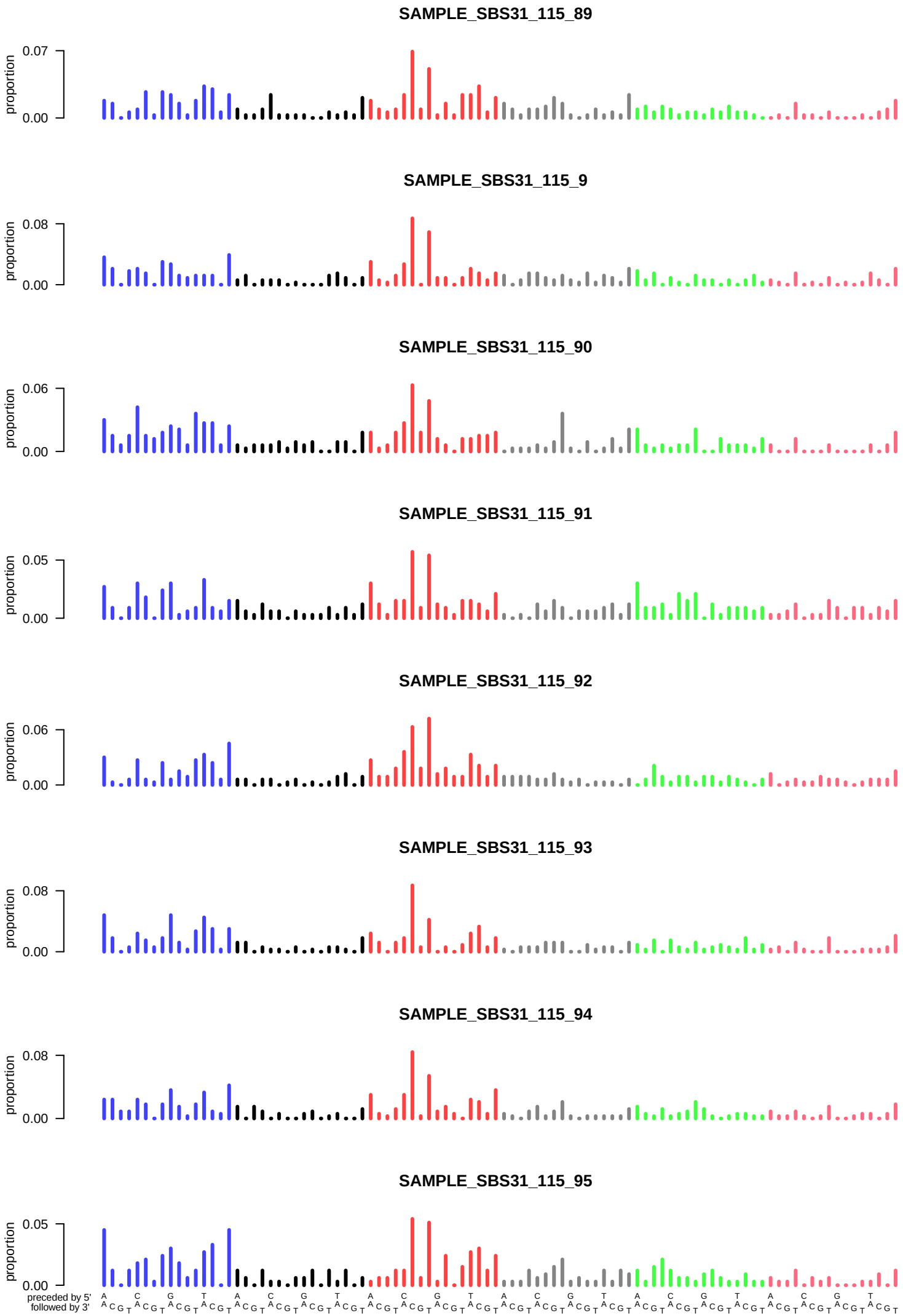
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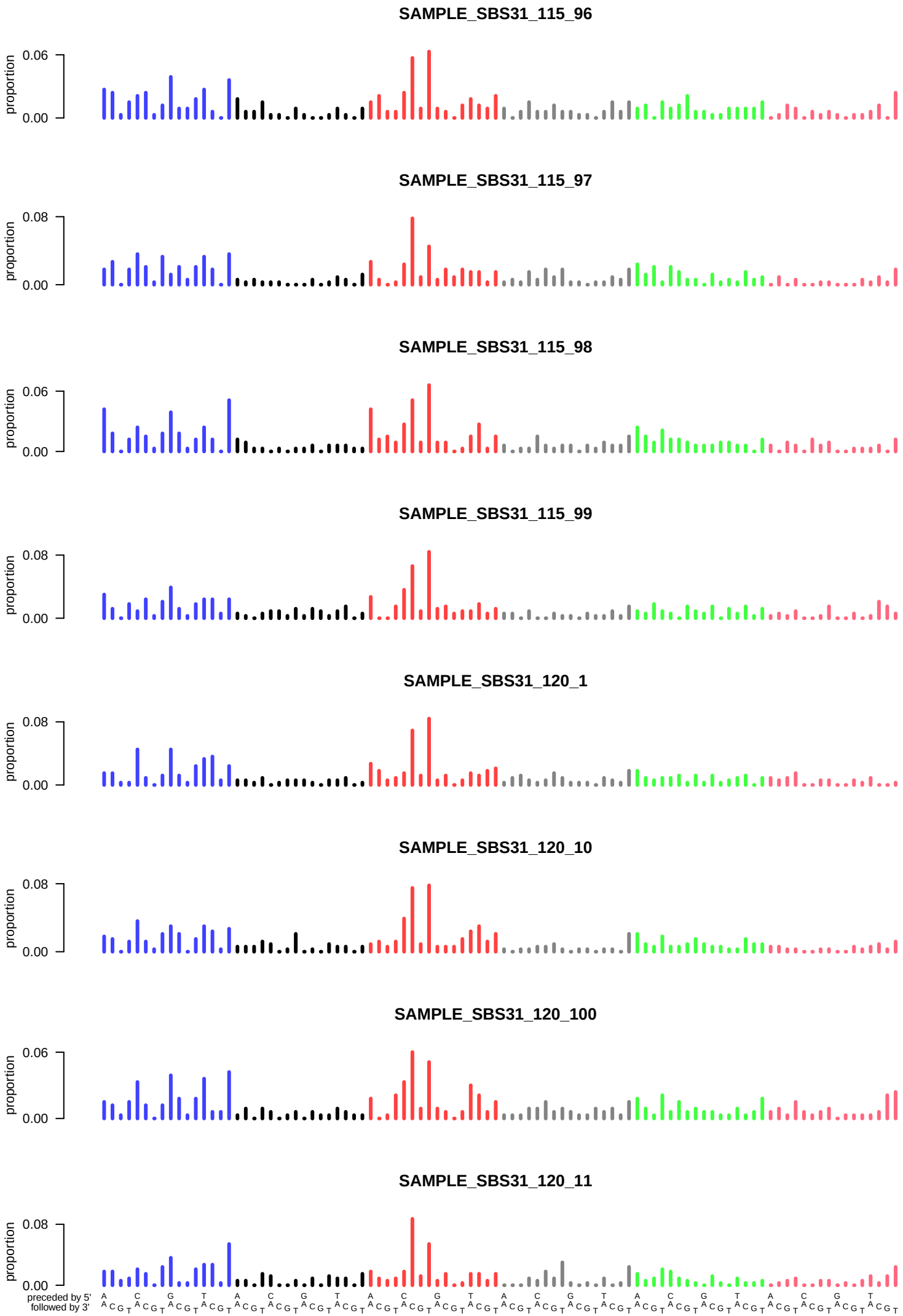
followed by 3'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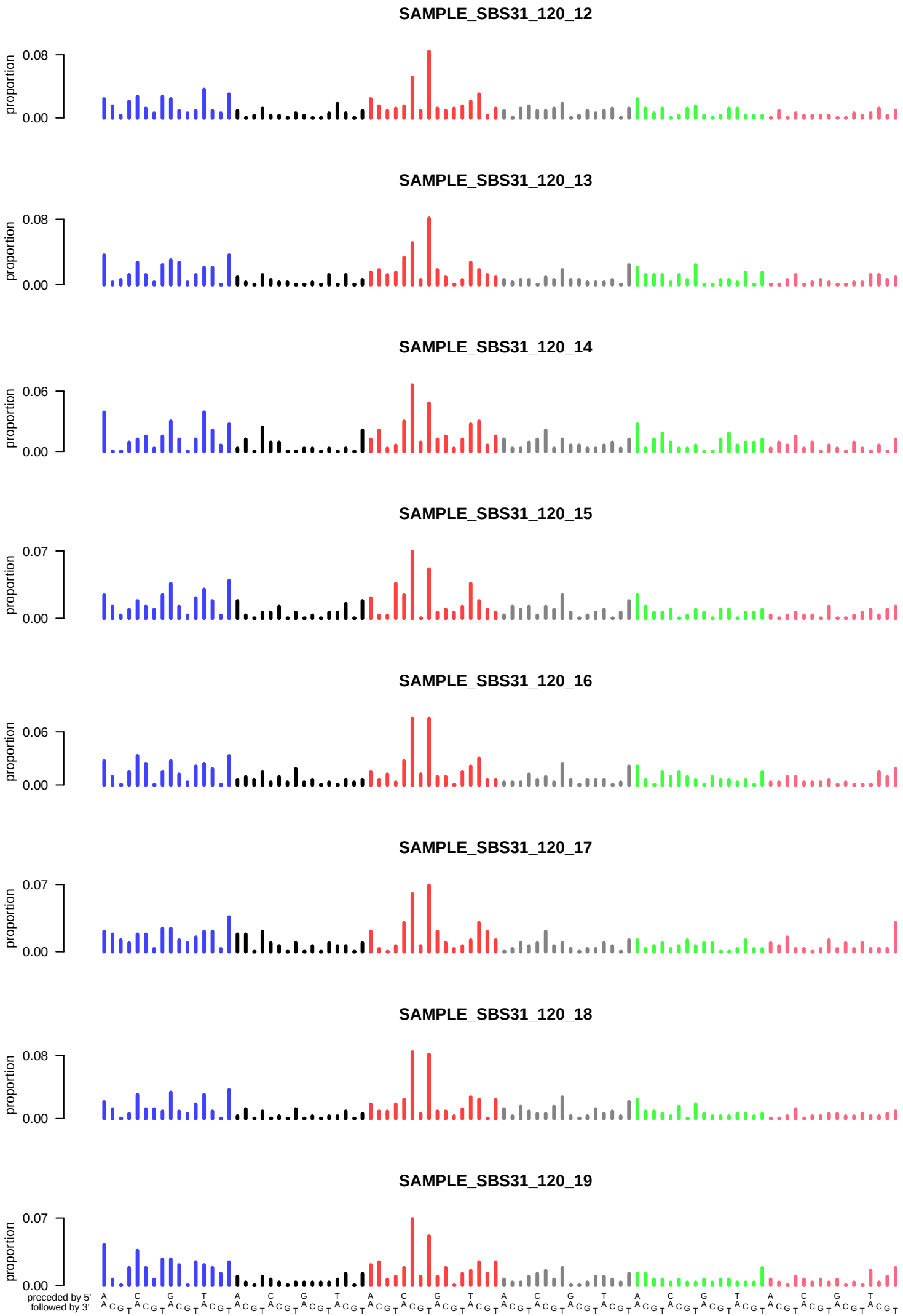
followed by 3'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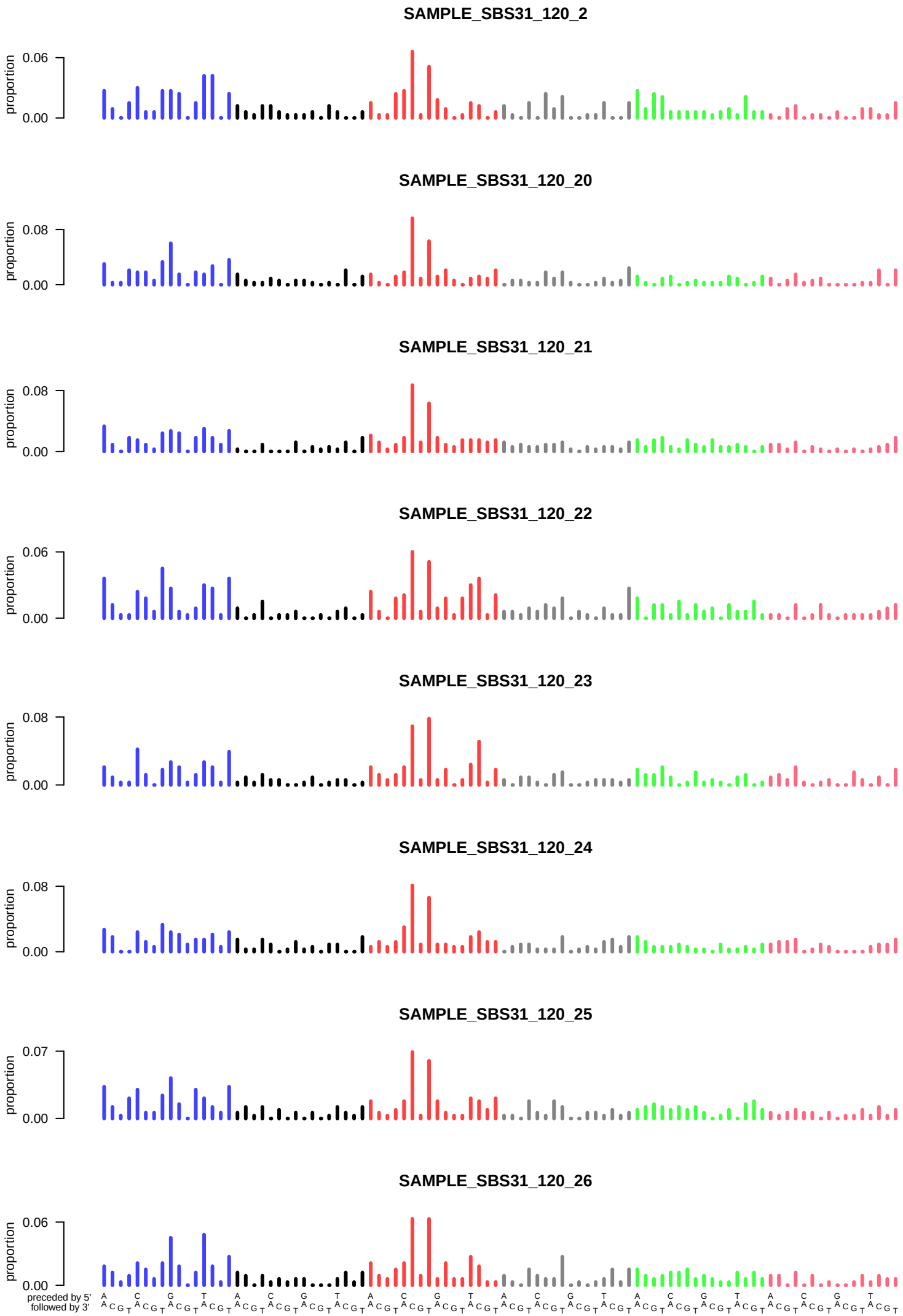
followed by 3'
A C G T A C G T A C G T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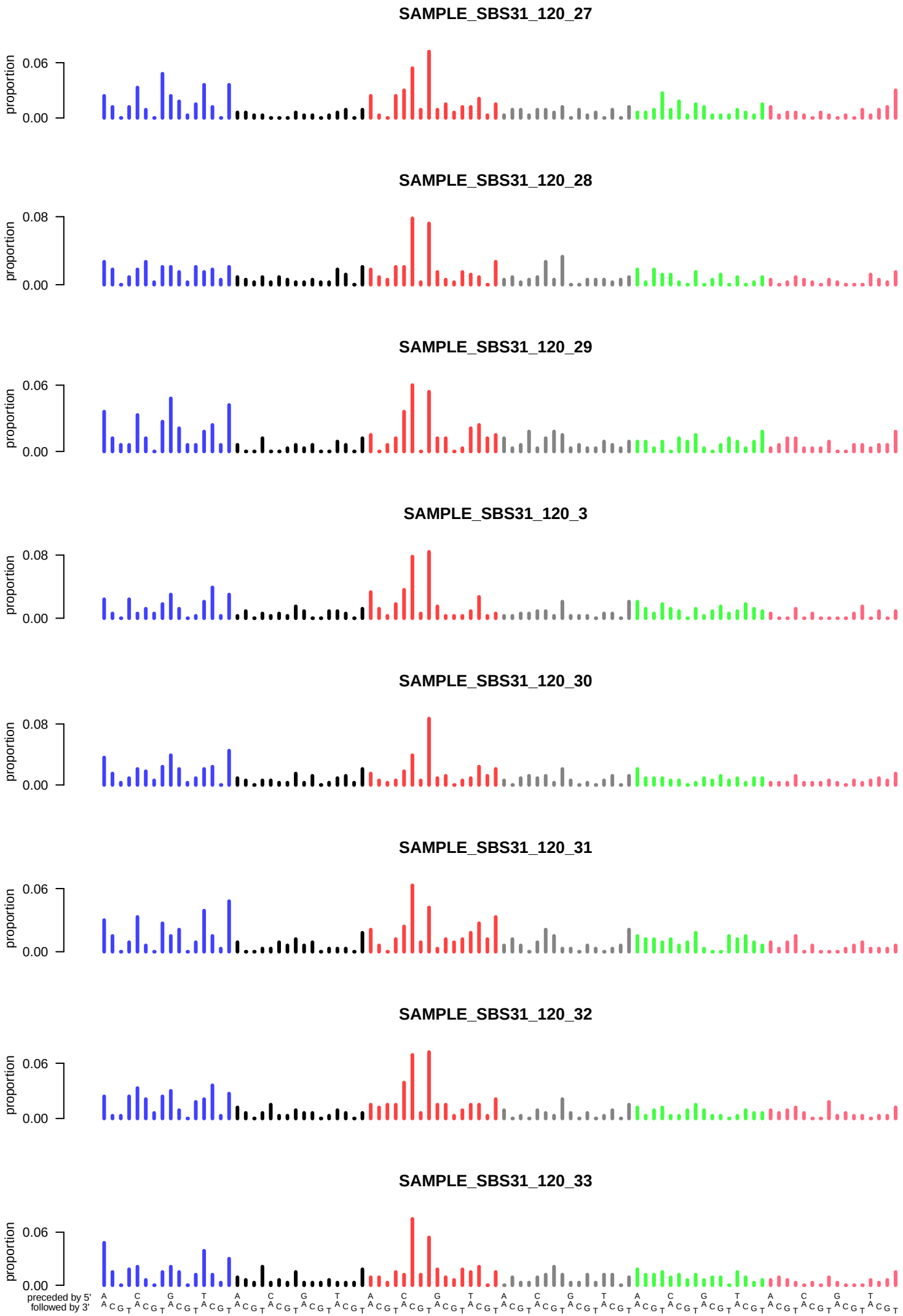
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SAMPLE_SBS31_120_32
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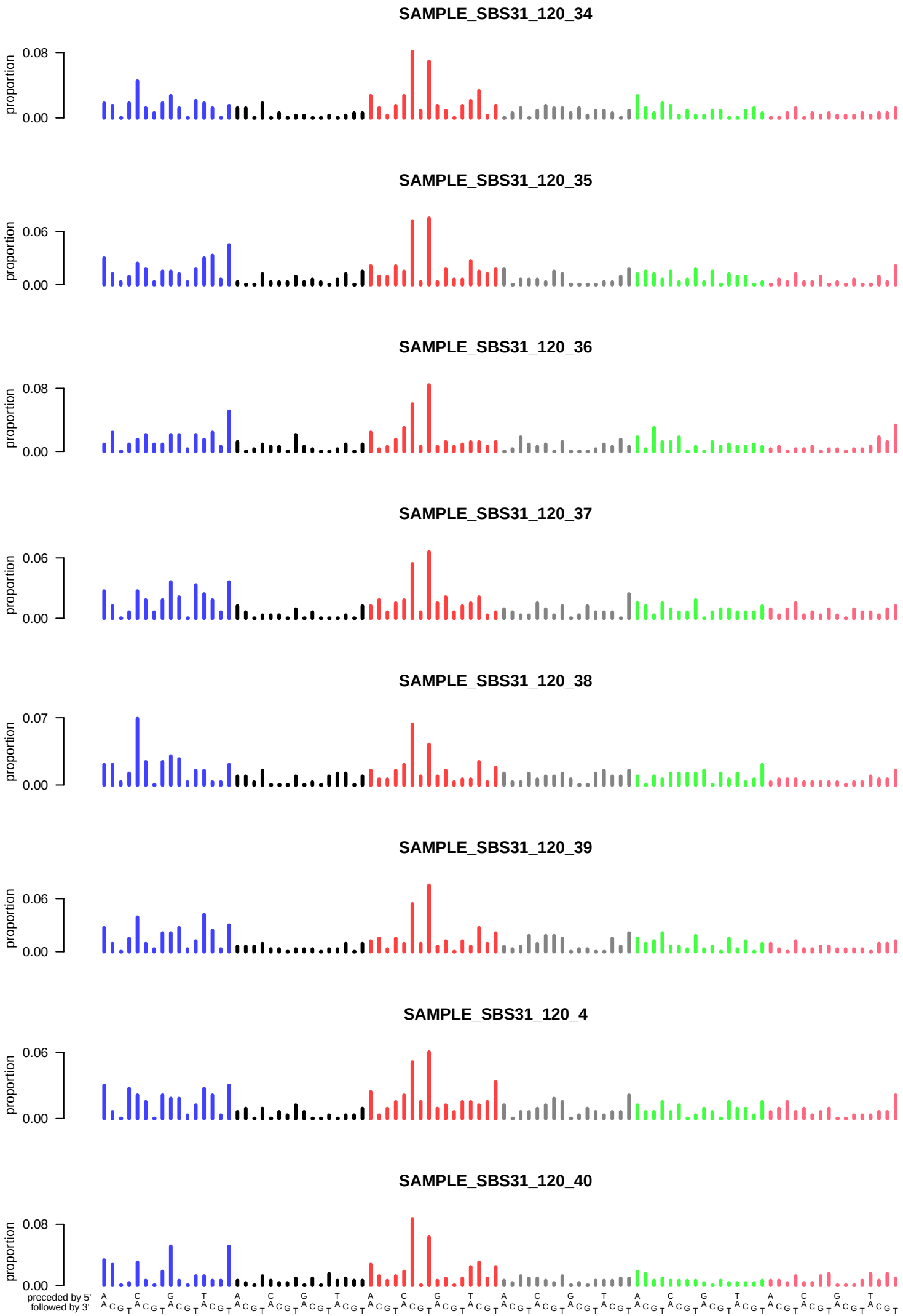
followed by 3'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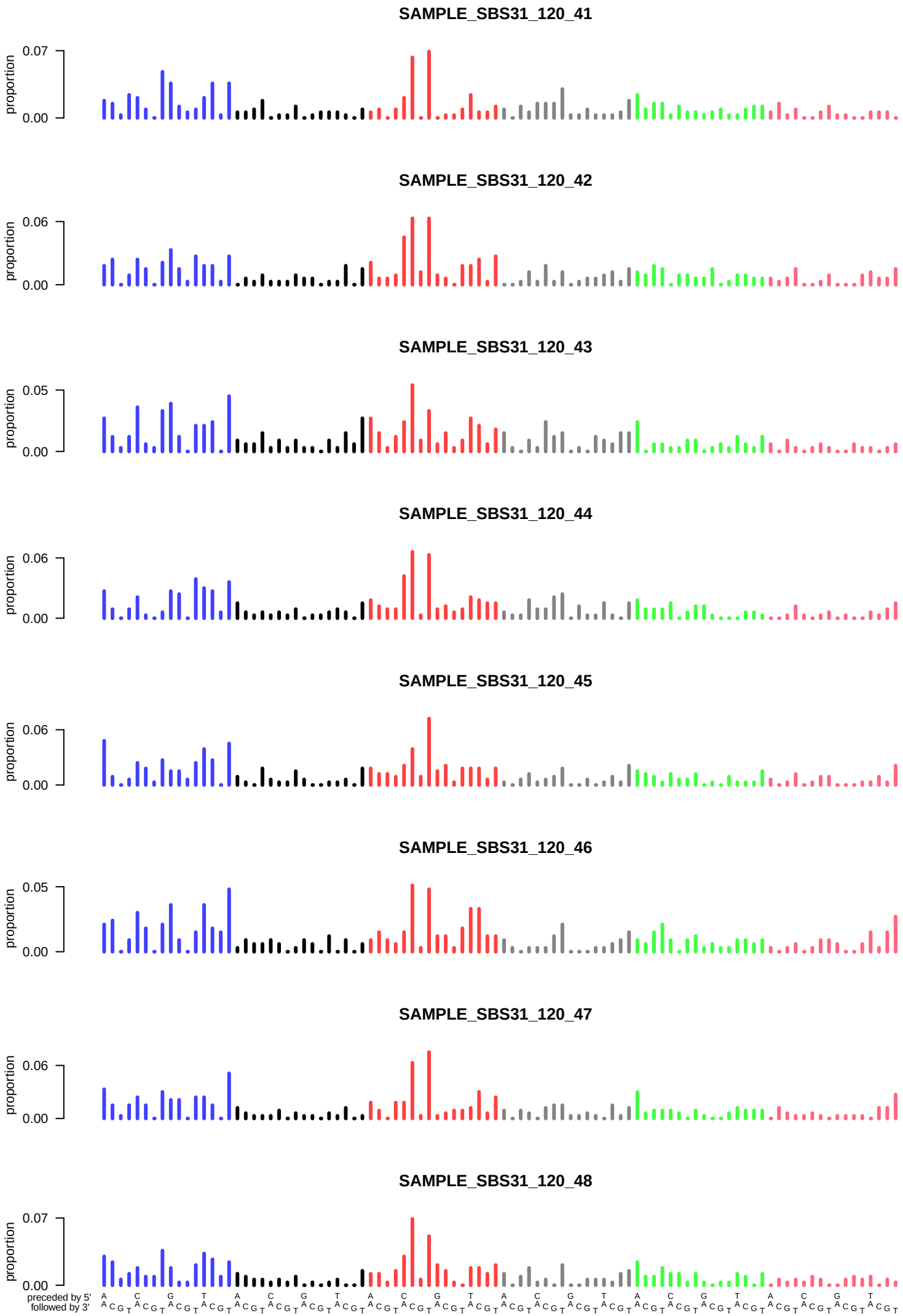
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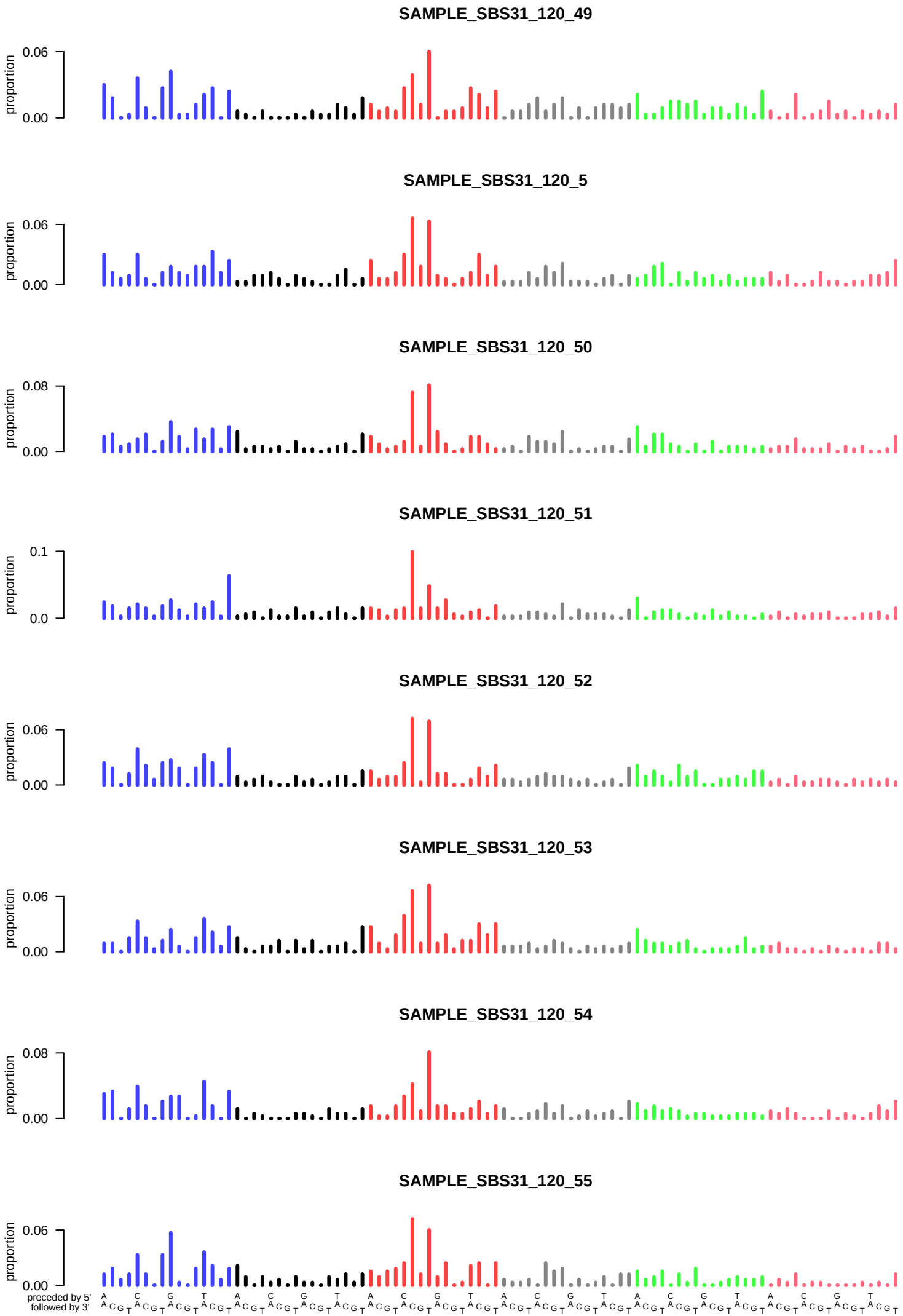
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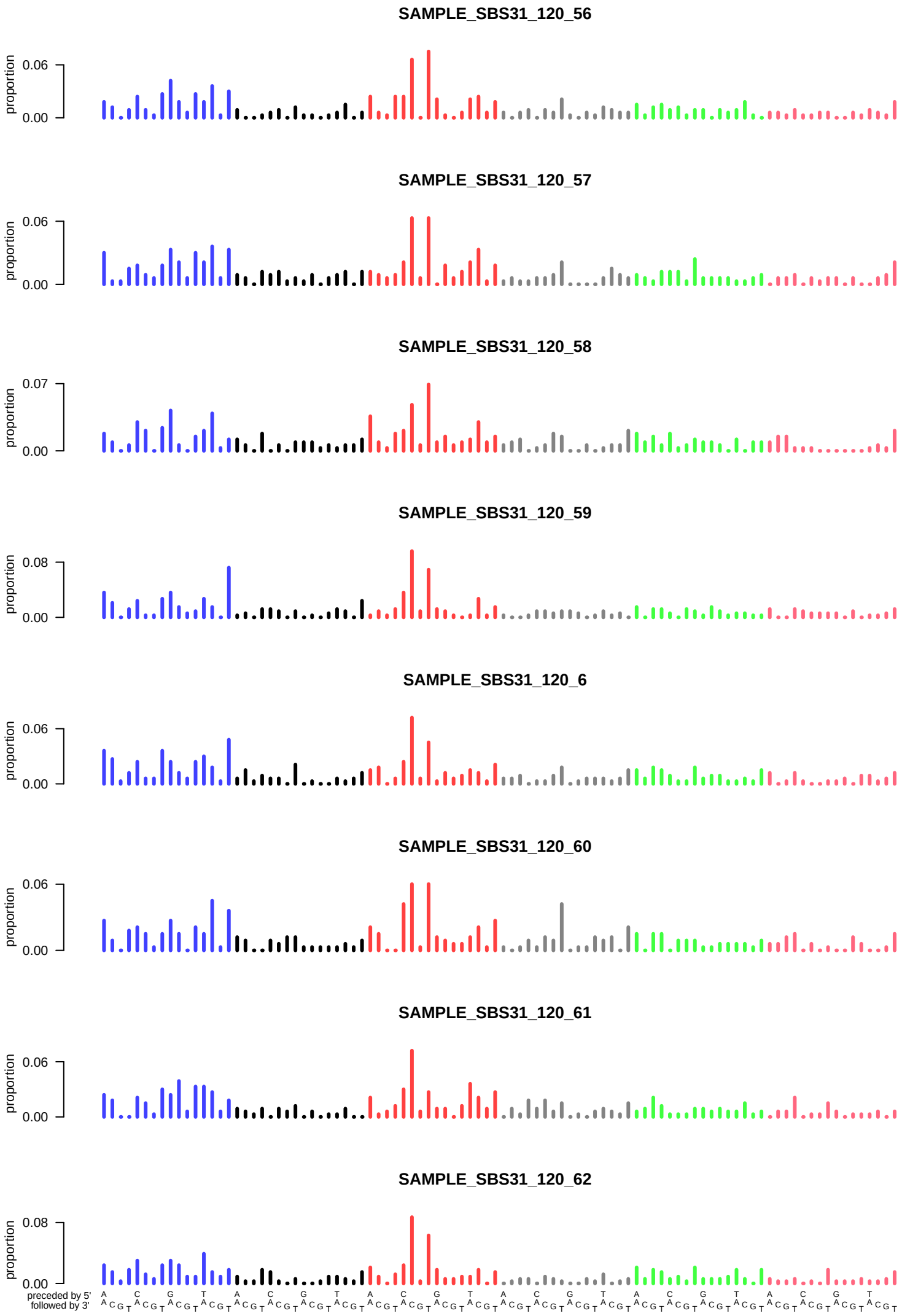
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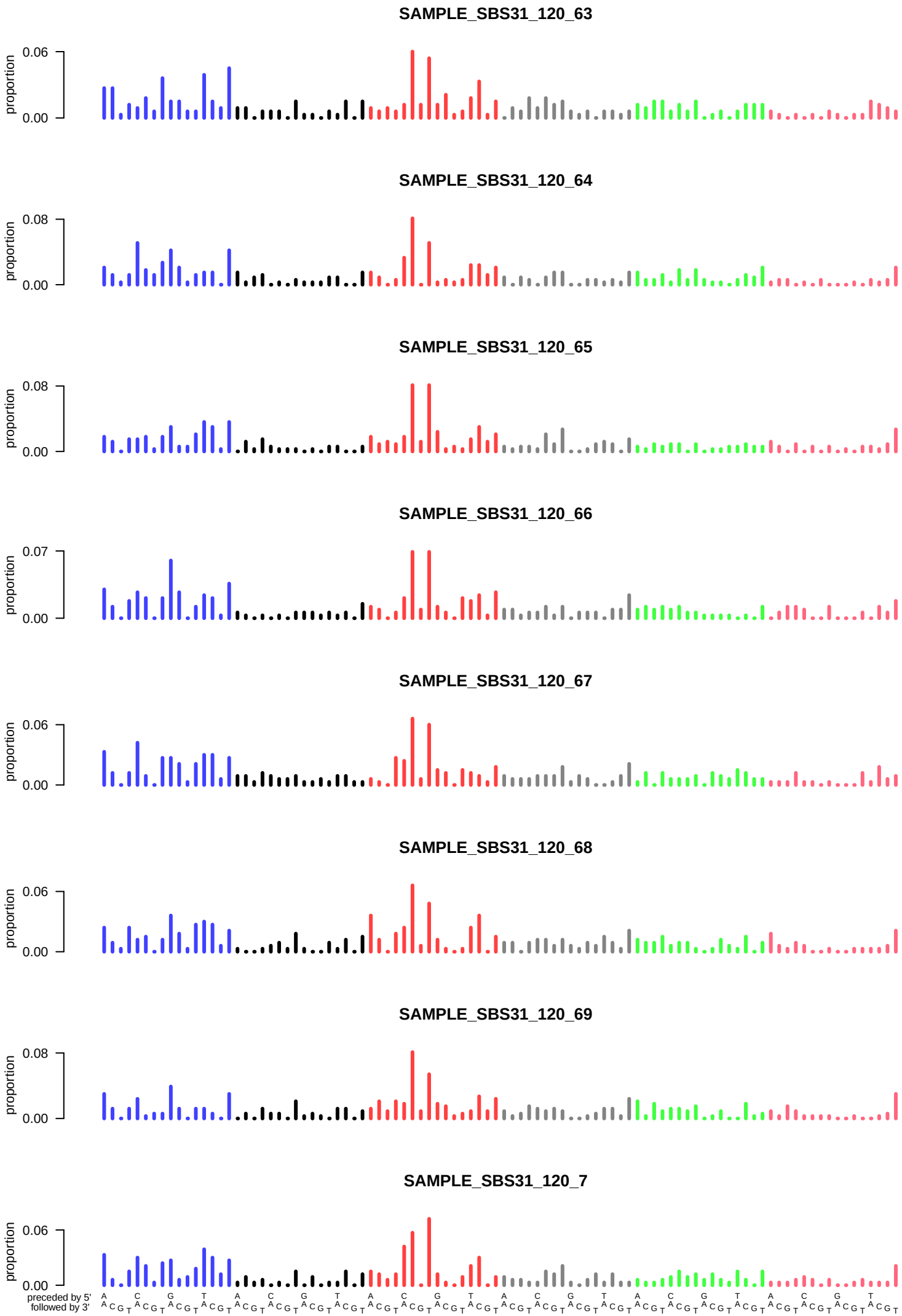
followed by 3'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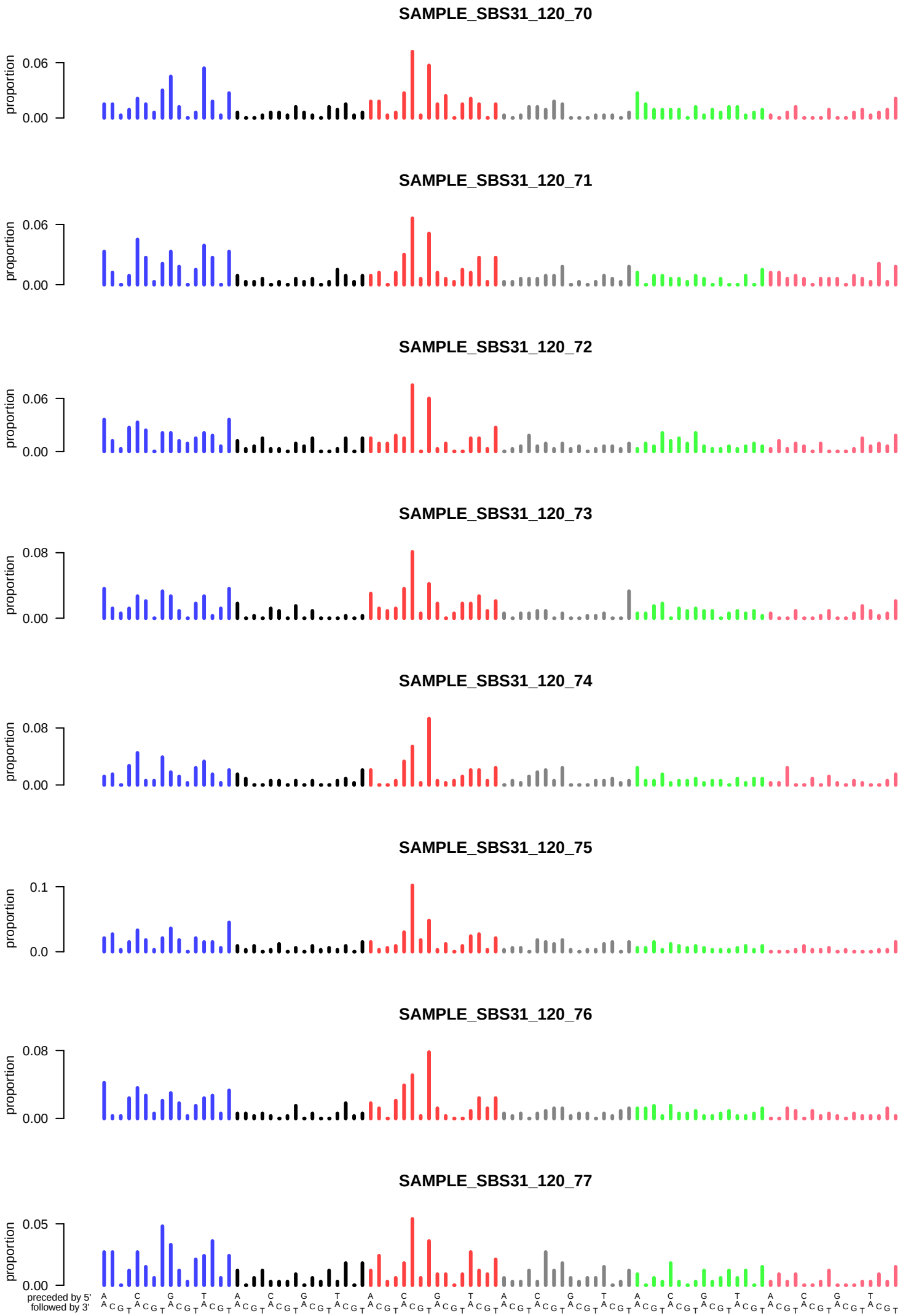
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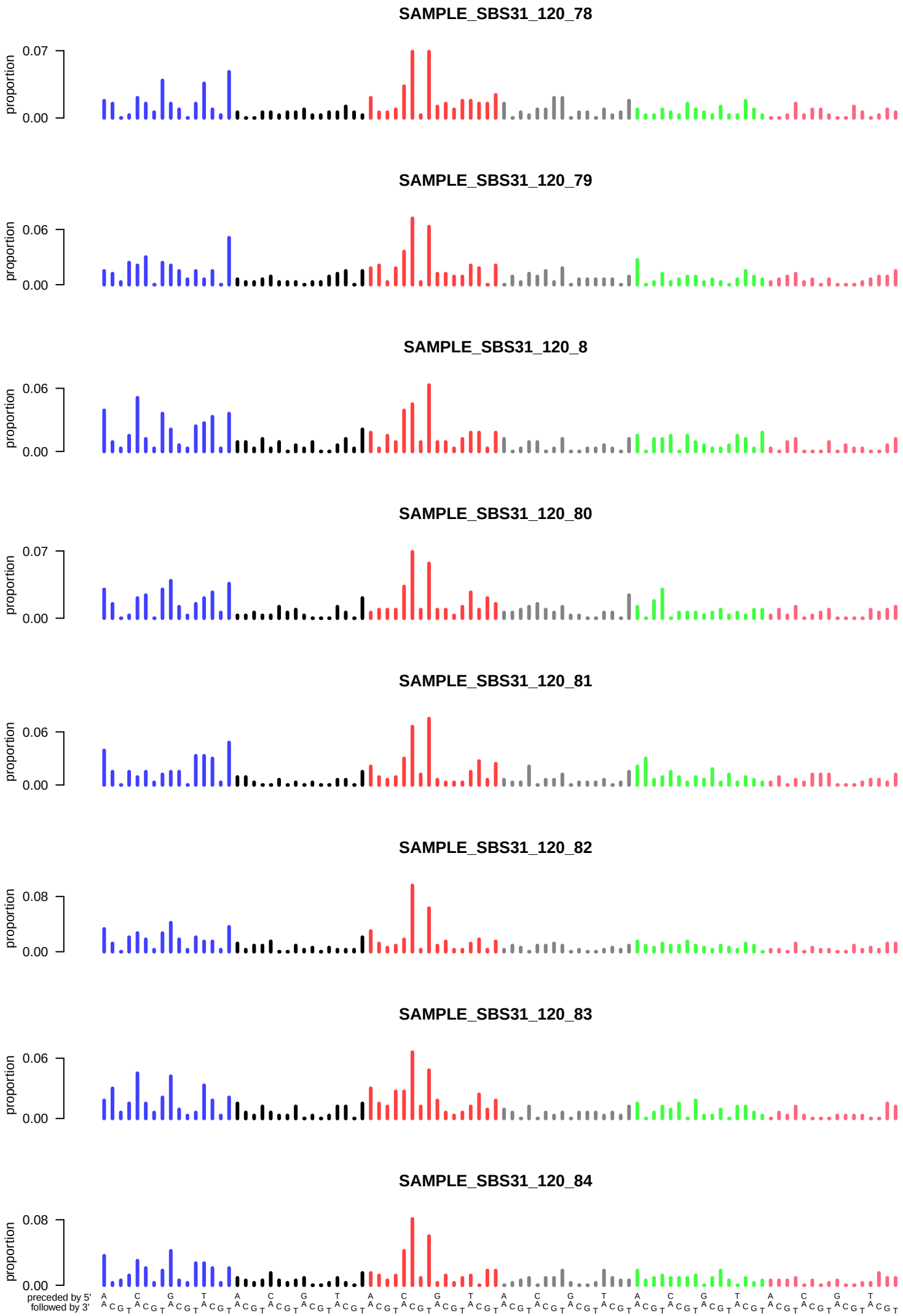
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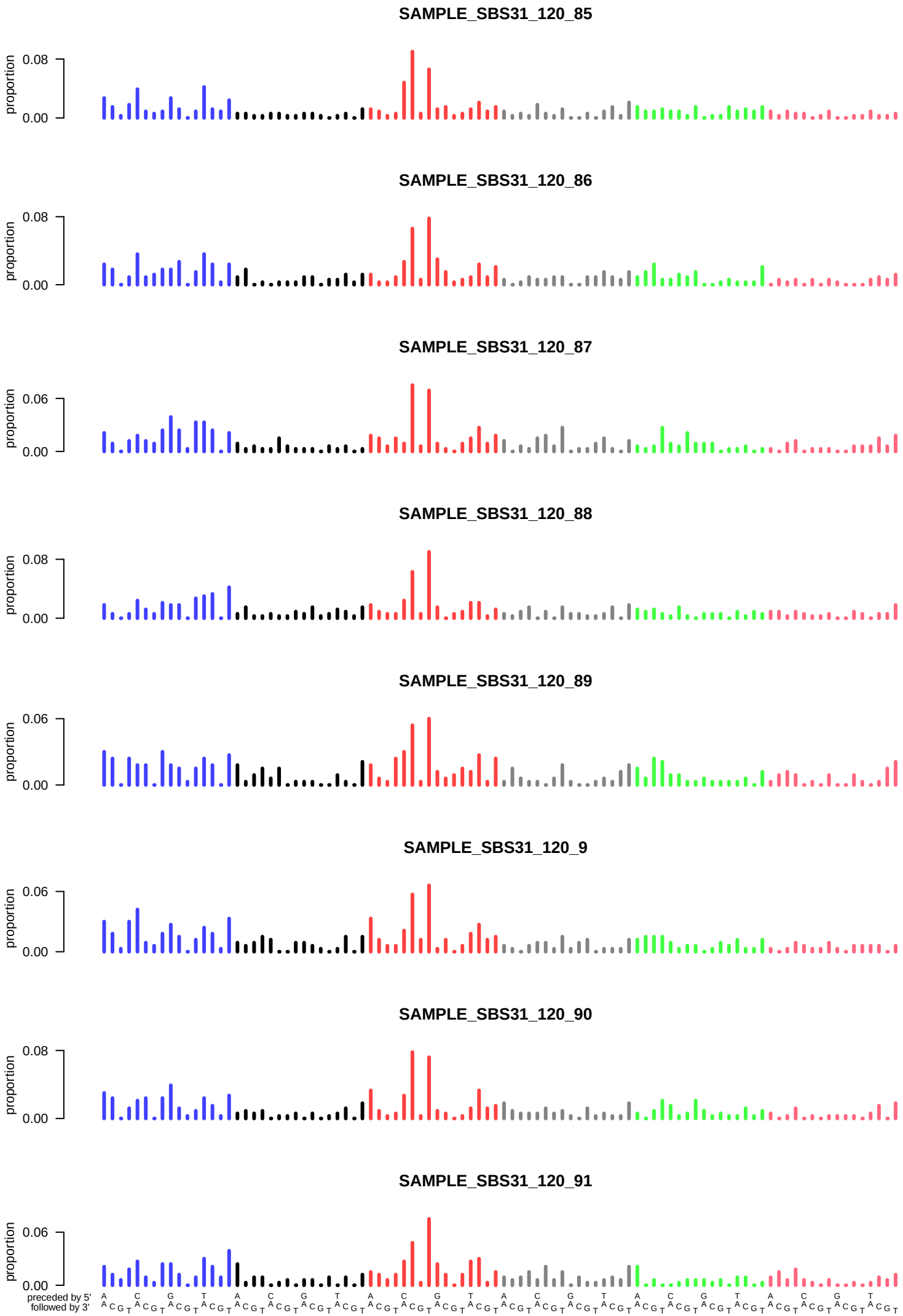
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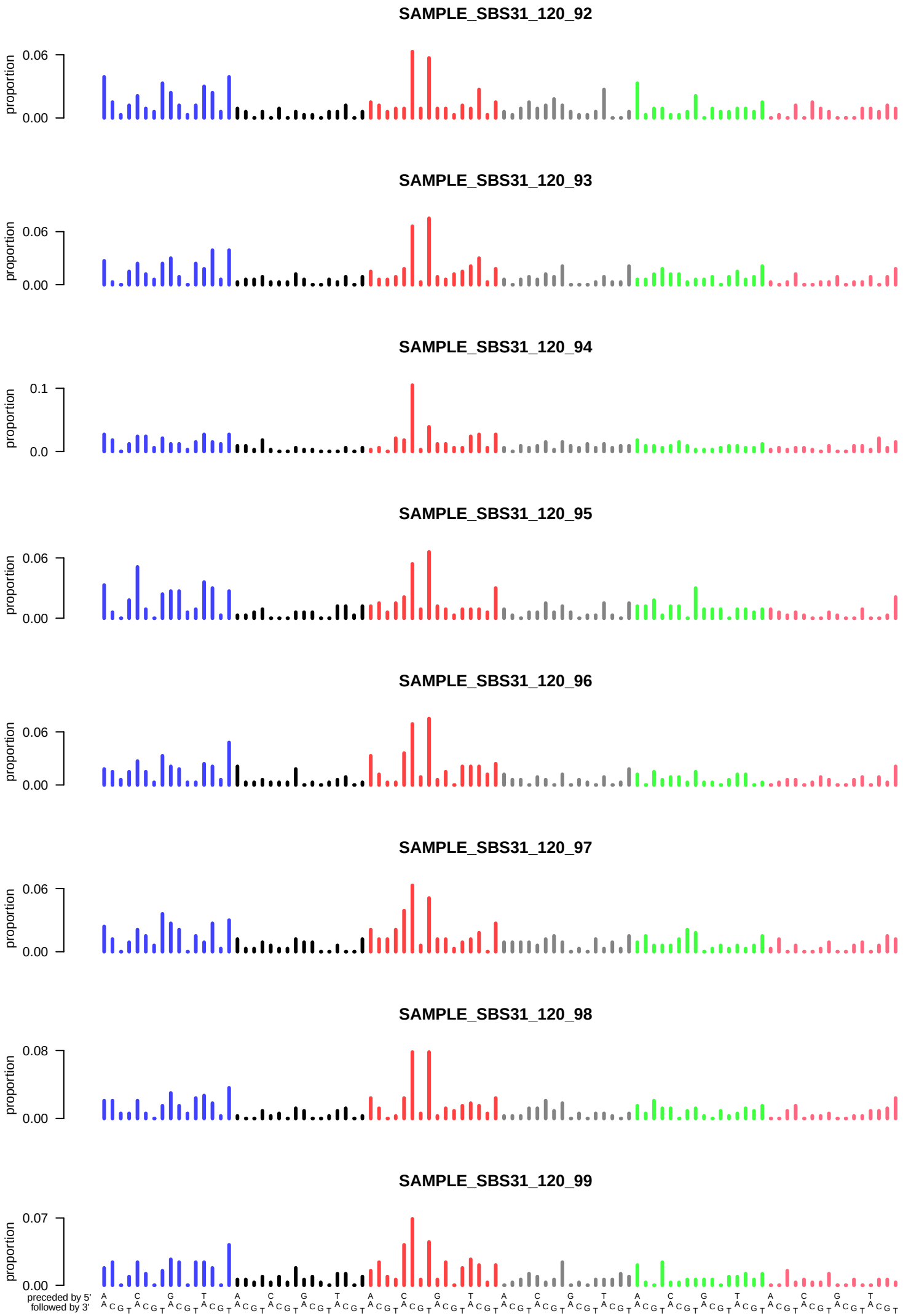
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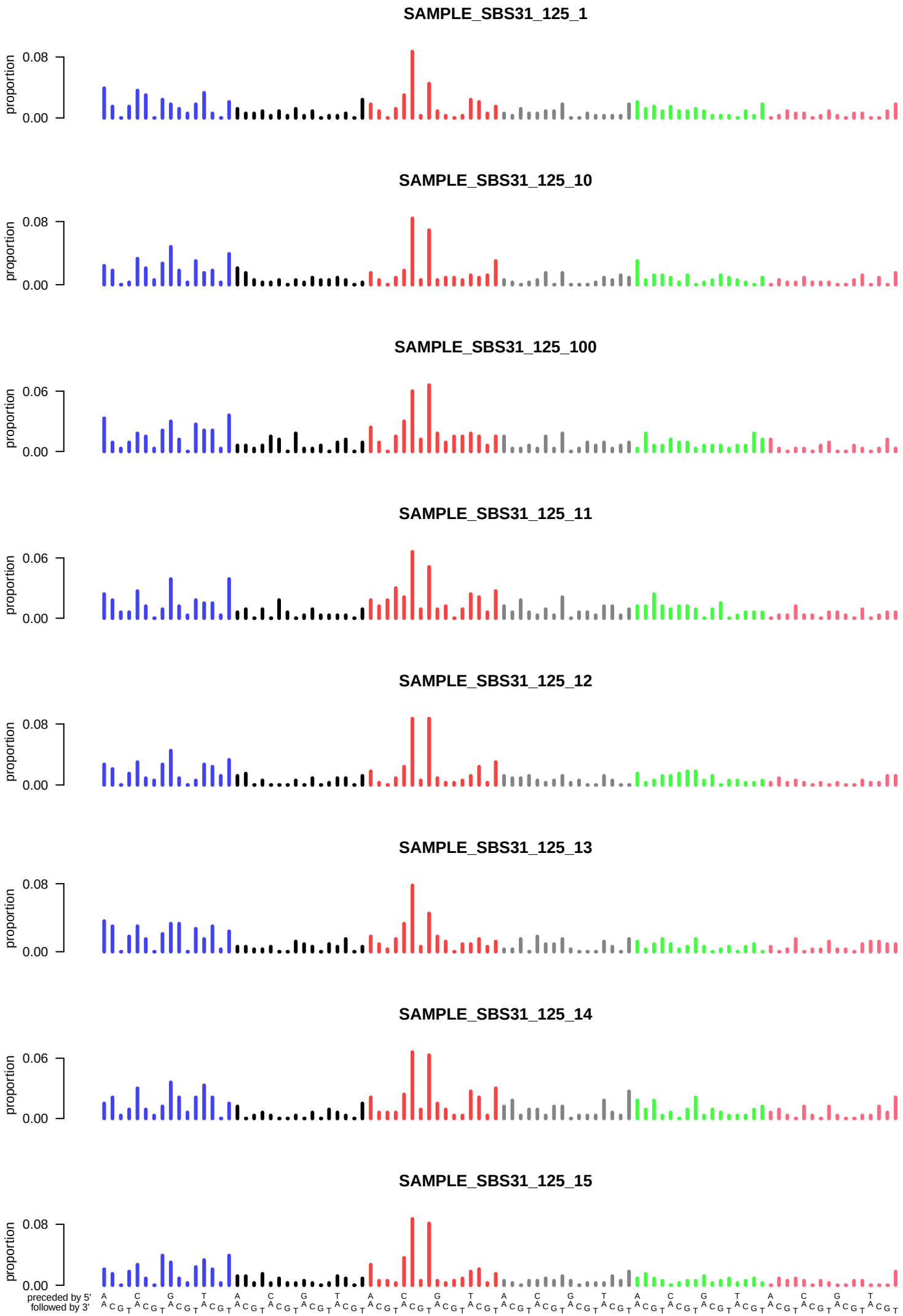
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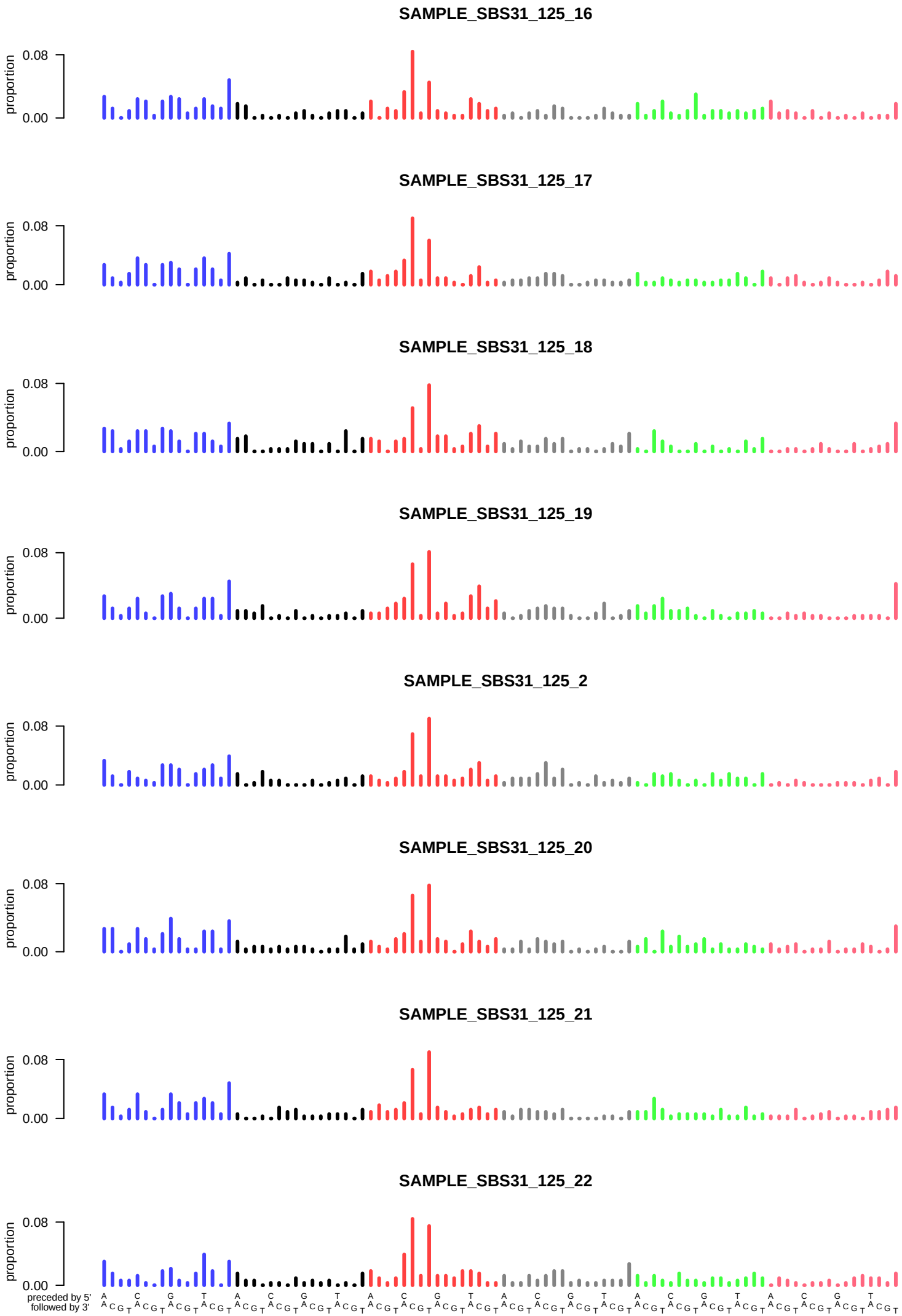
followed by 3'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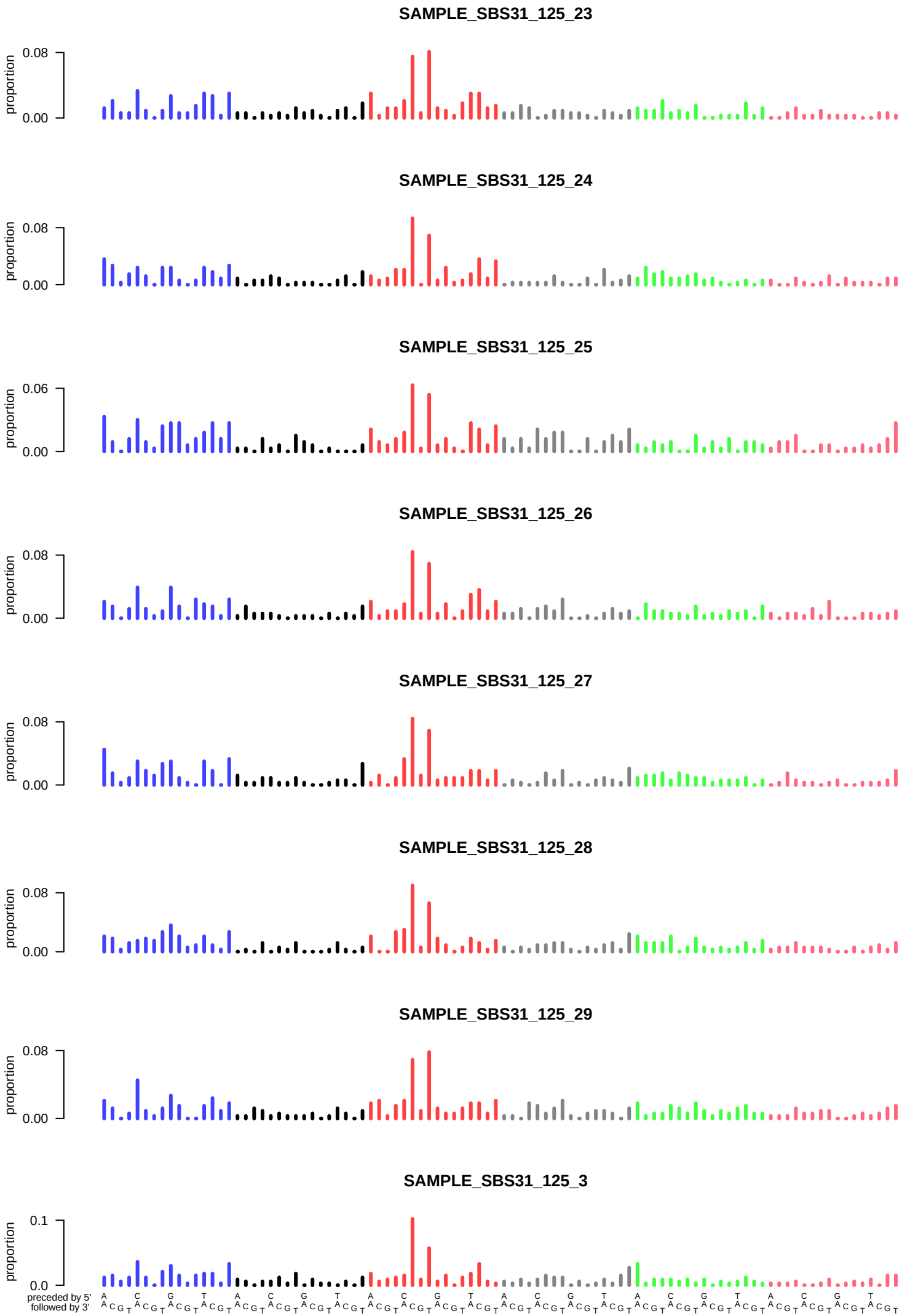
followed by 3'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proportion
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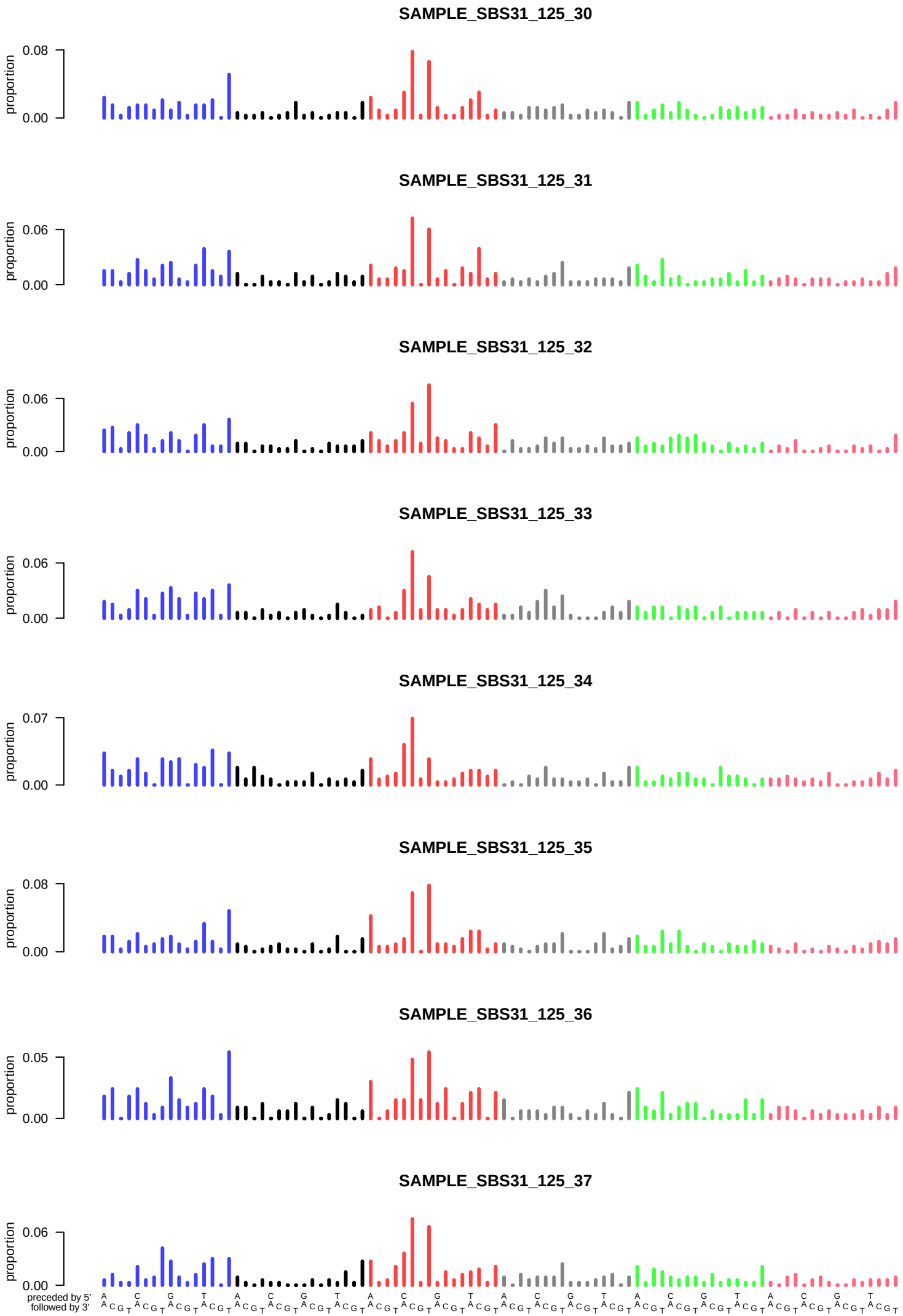
followed by 3'
A C G T A C G T A C G T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followed by 3'
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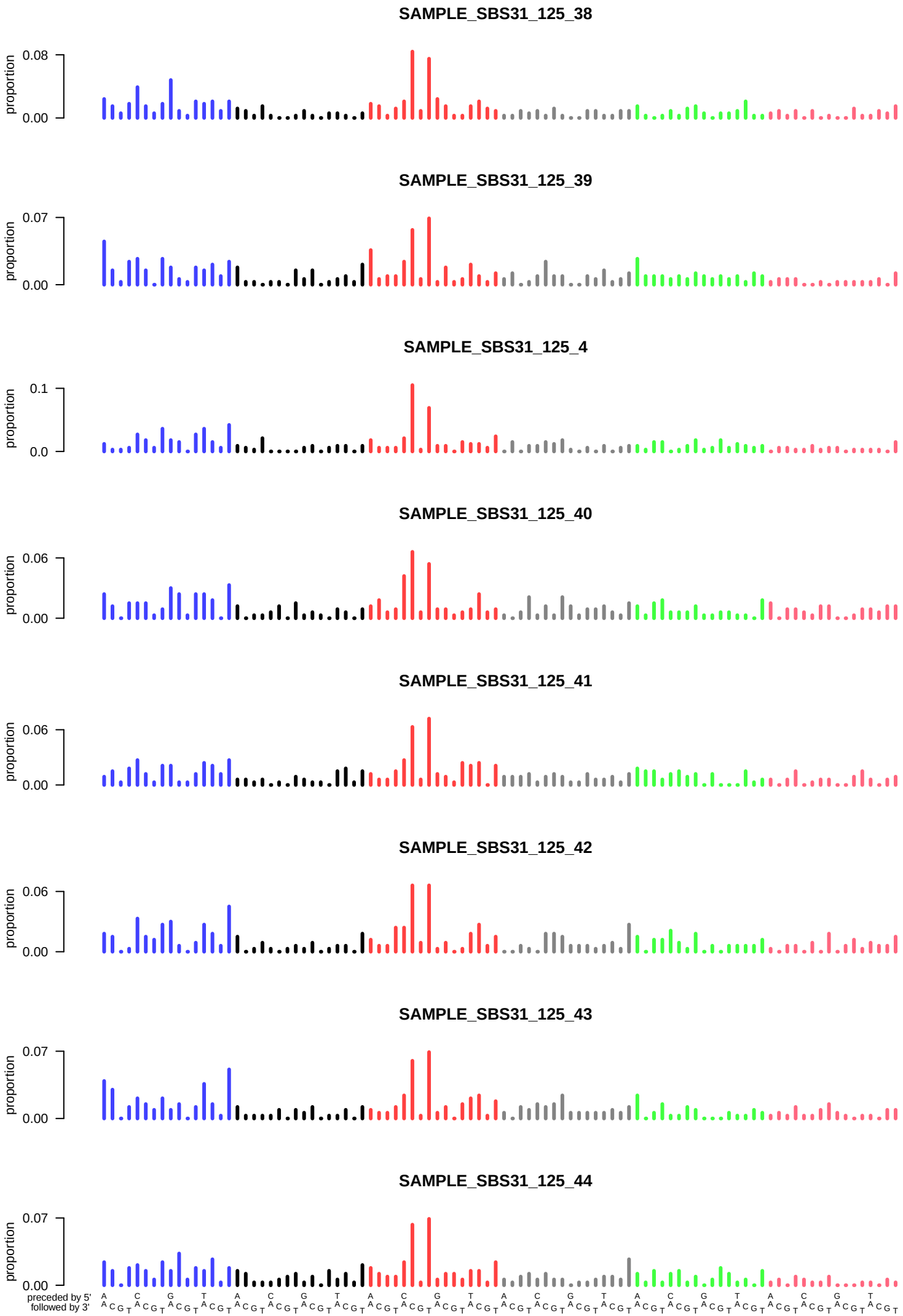
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followed by 3'
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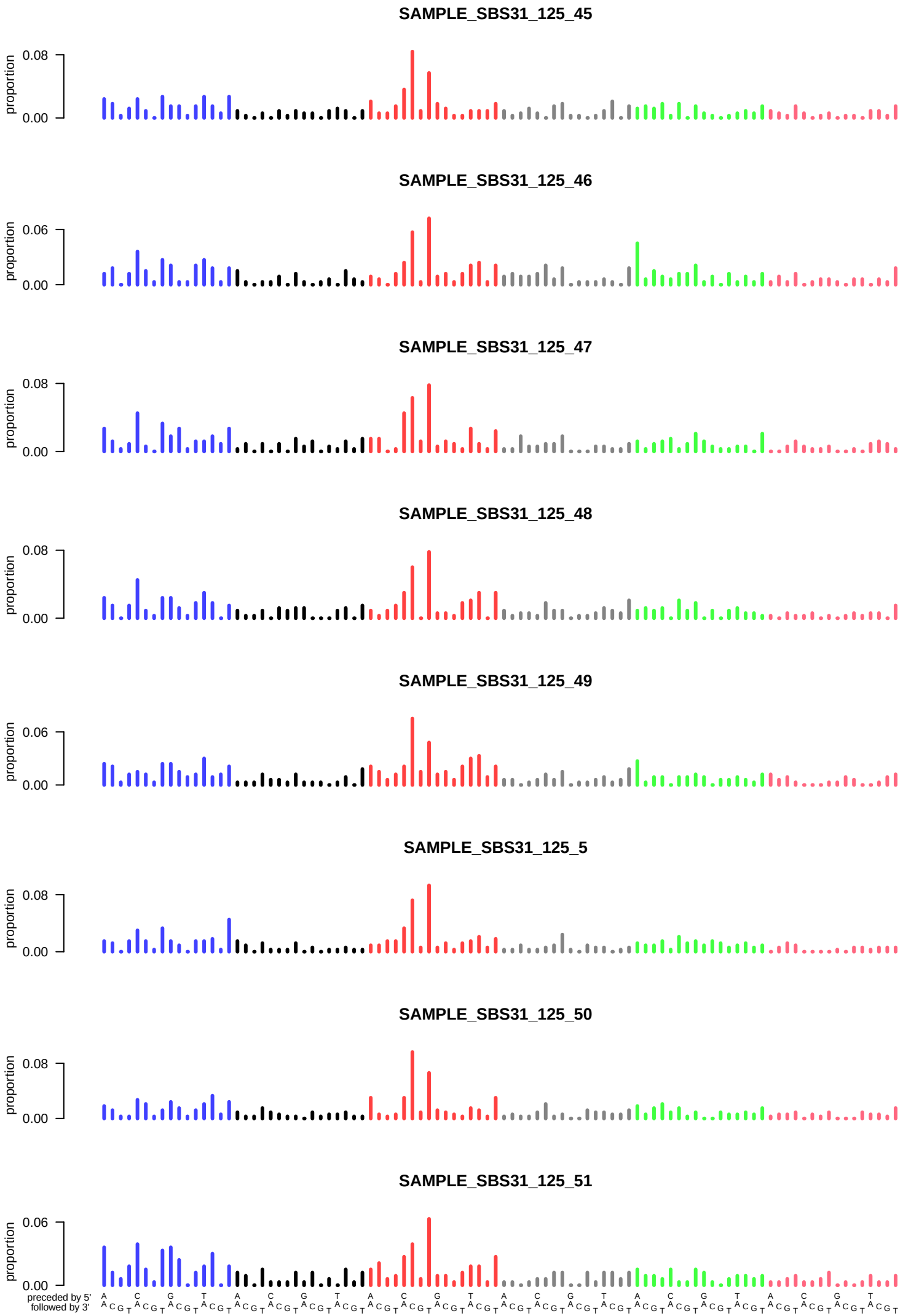
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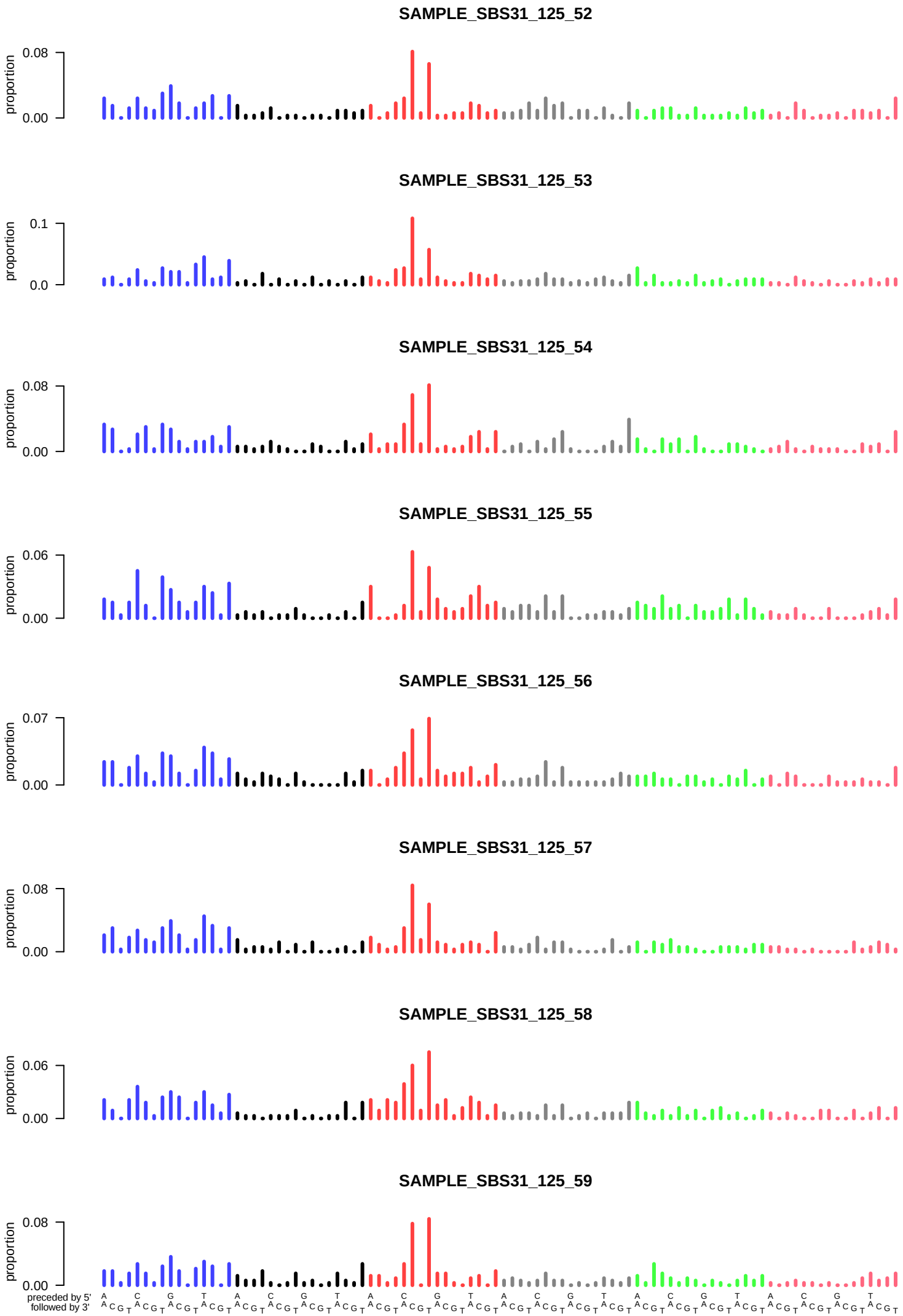
preceded by 5'
followed by 3'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followed by 3'
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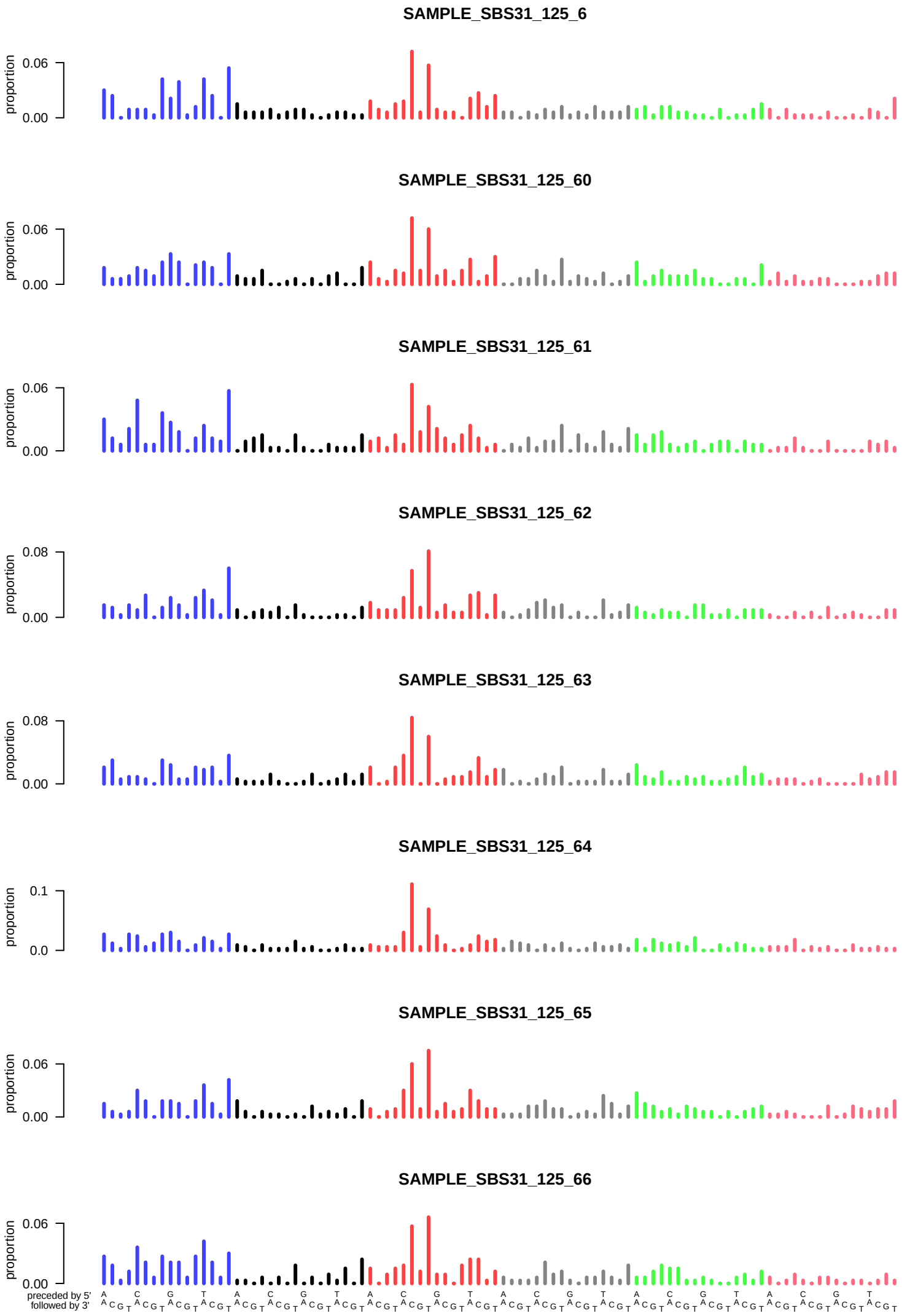
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followed by 3'
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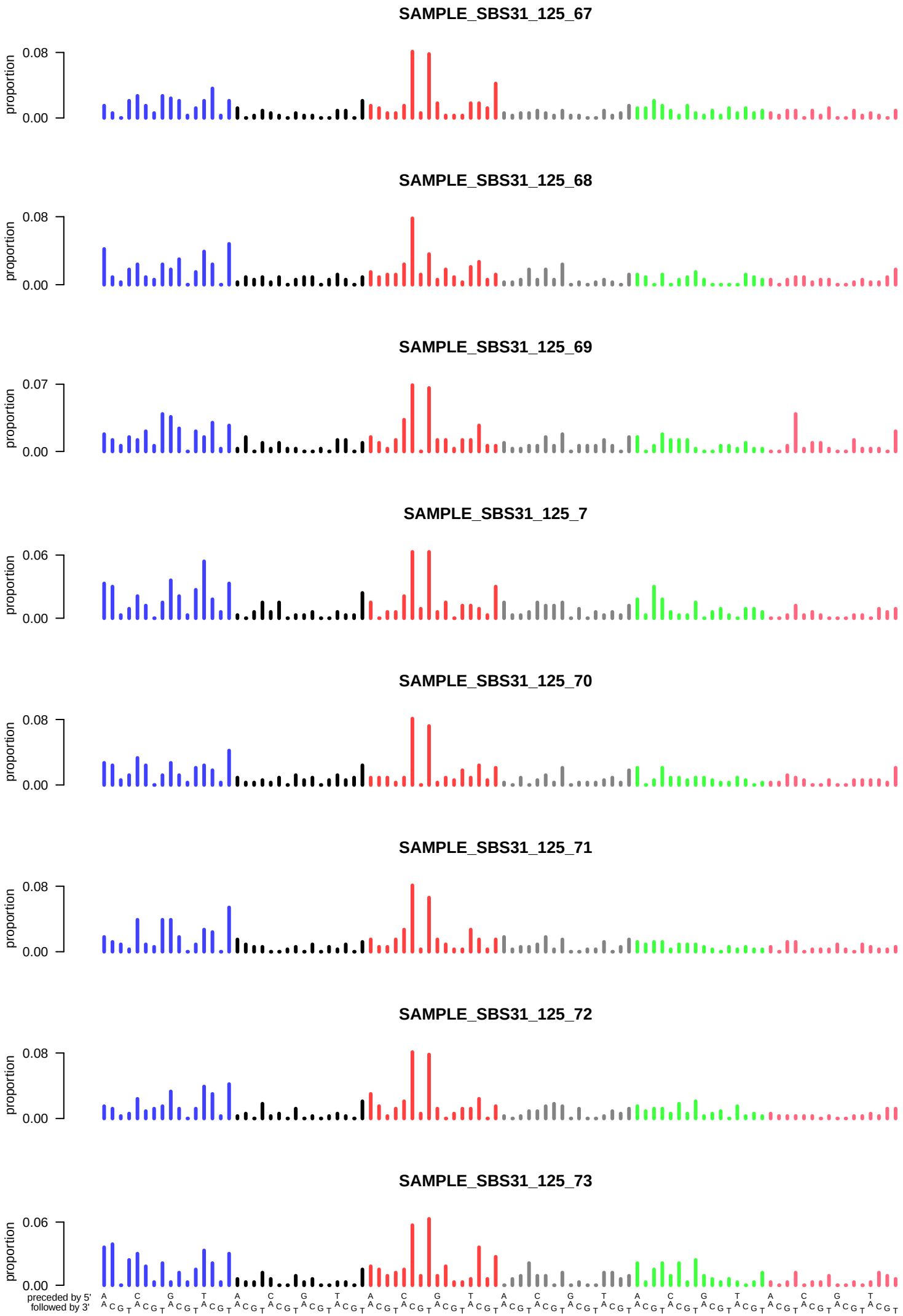
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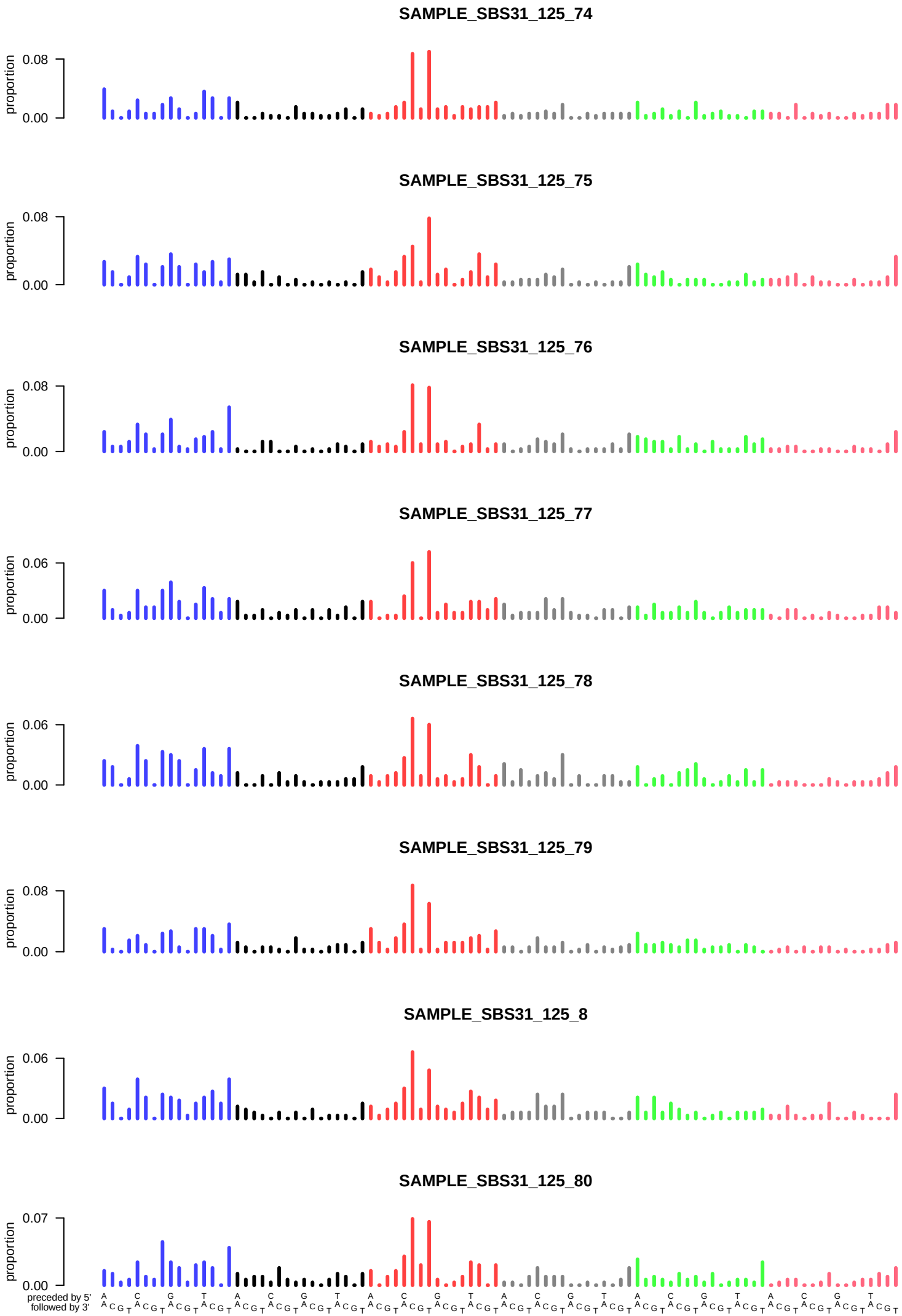
followed by 3'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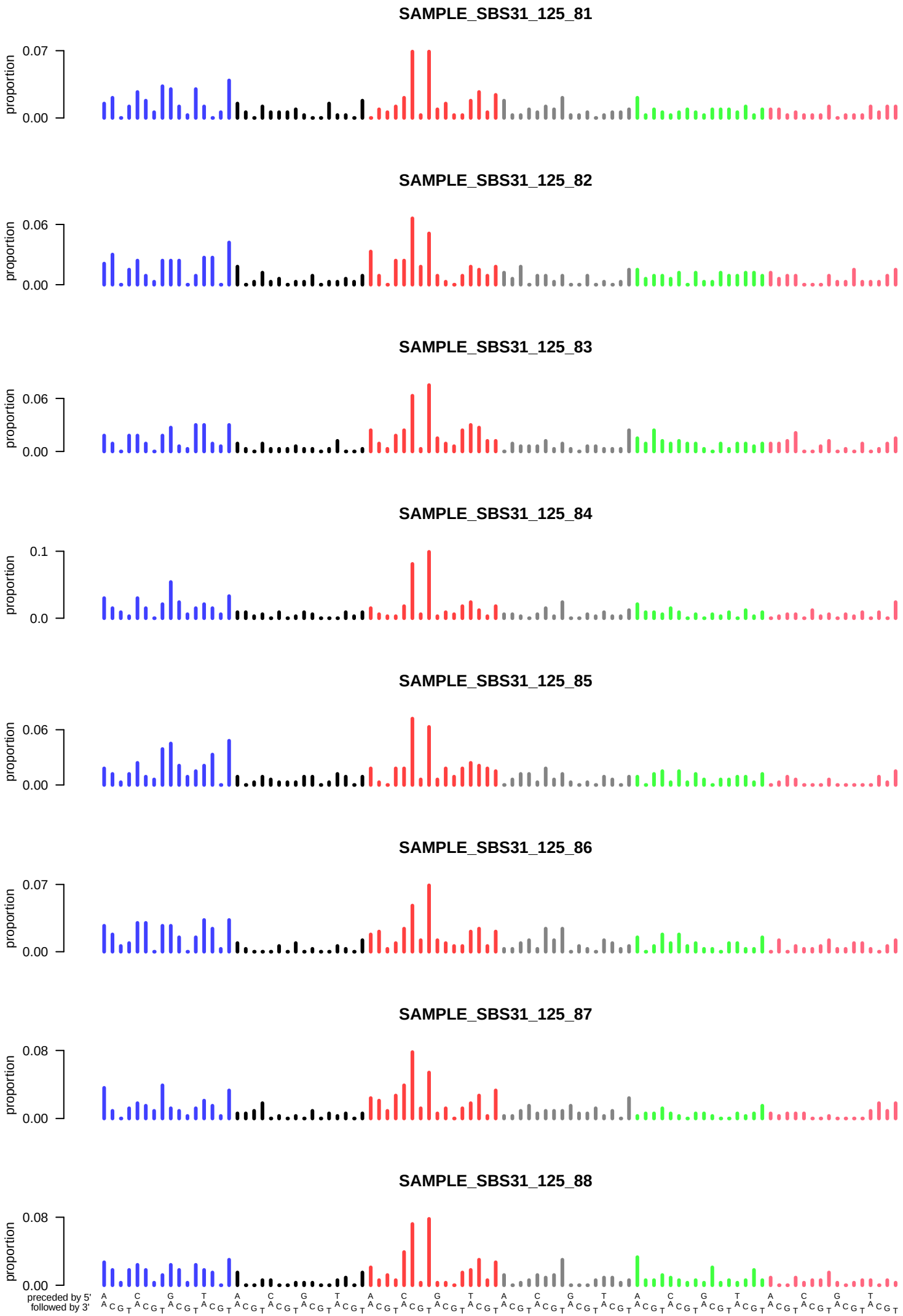
followed by 3'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SAMPLE_SBS31_125_87
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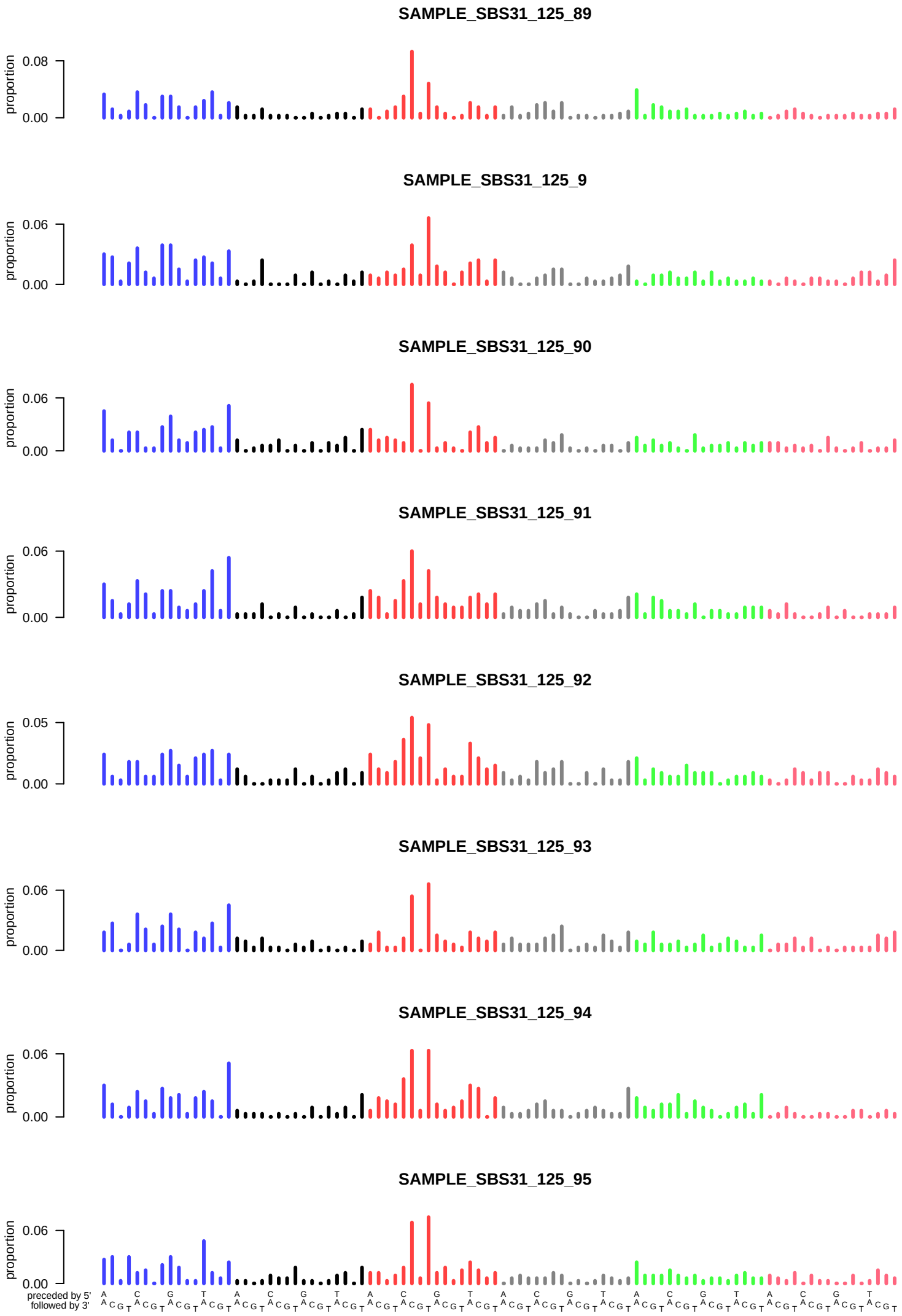
followed by 3'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SAMPLE_SBS31_125_92
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SAMPLE_SBS31_125_93
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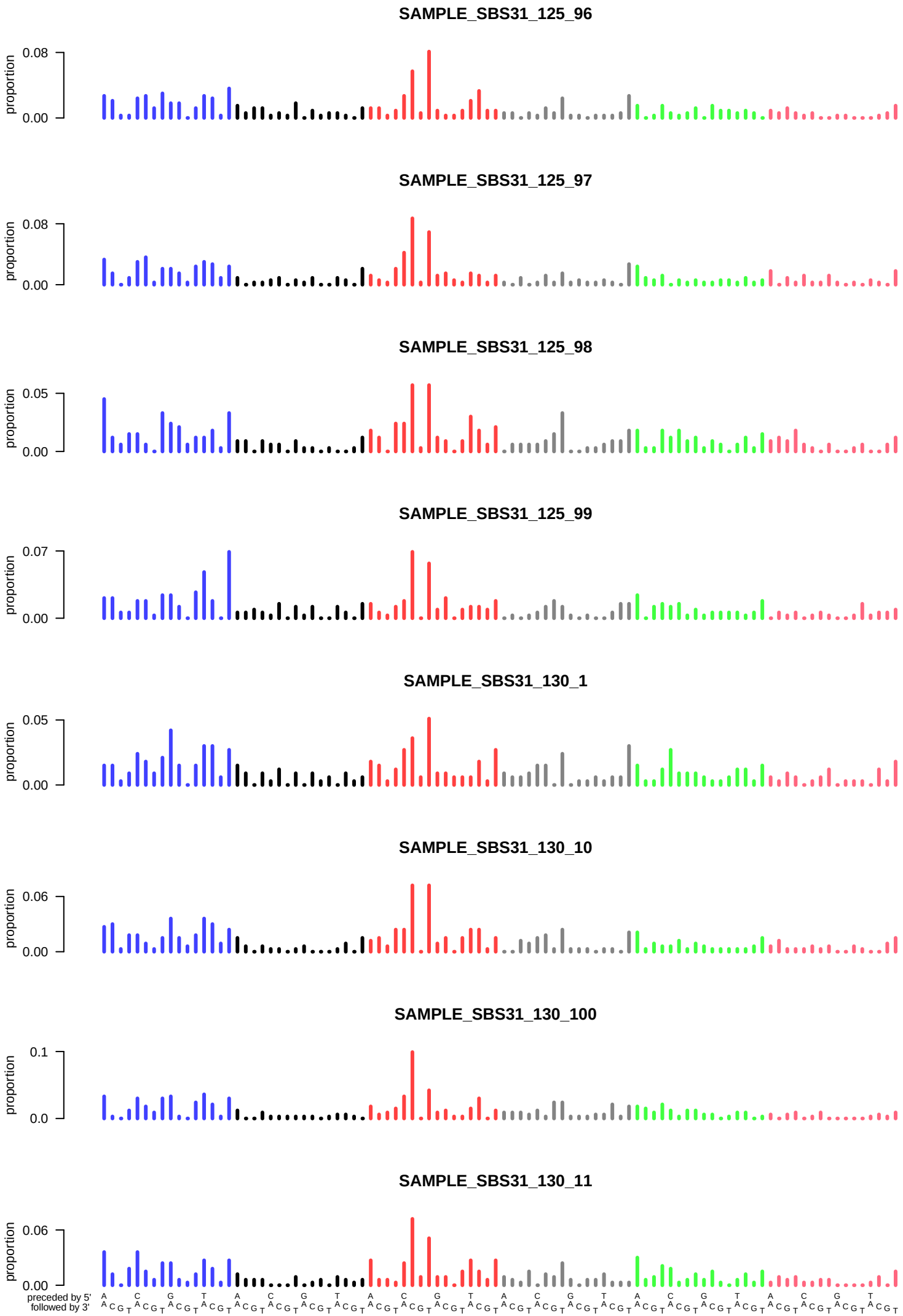
followed by 3'
A C G T A C G T A C G T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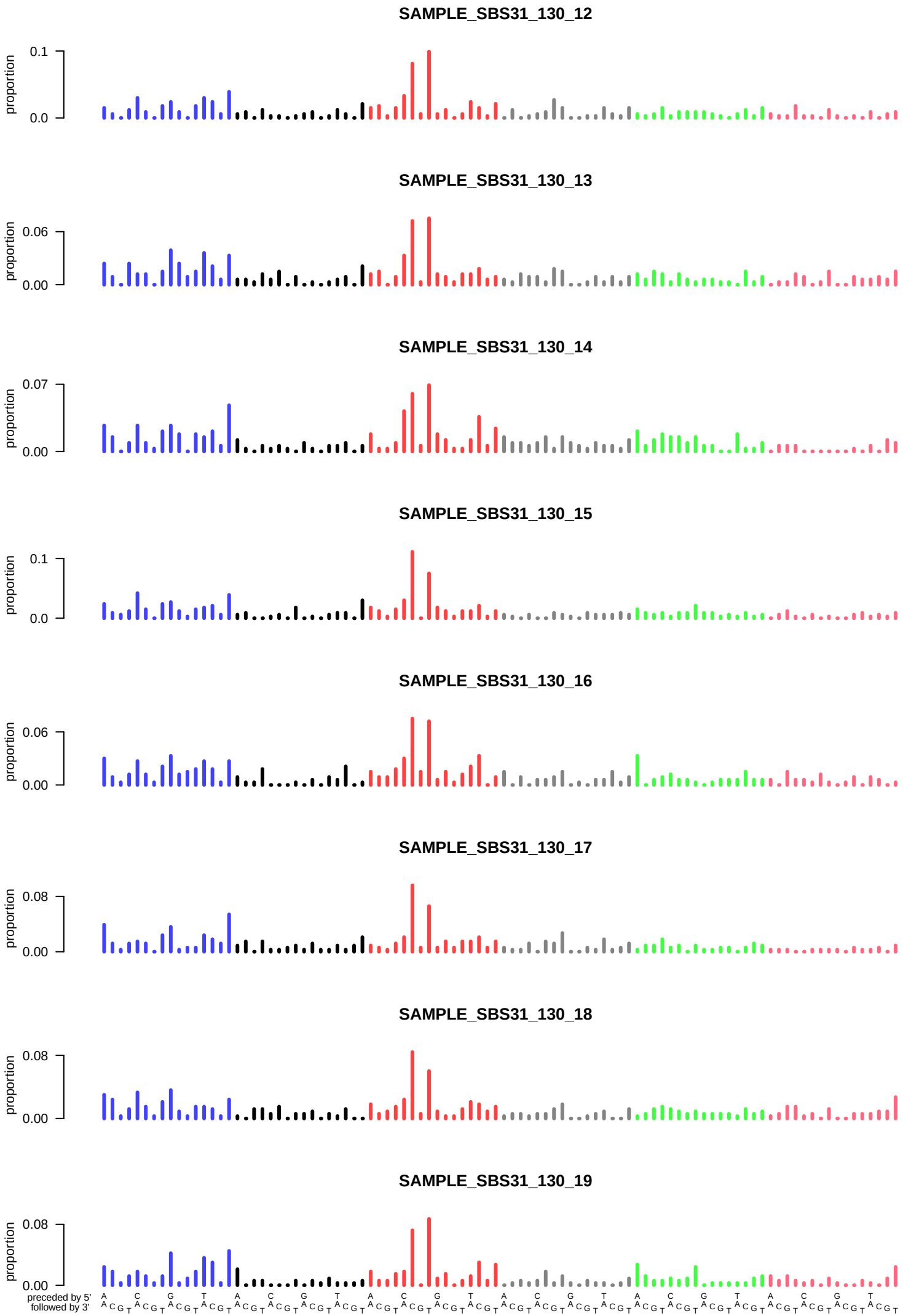
followed by 3'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SAMPLE_SBS31_130_18
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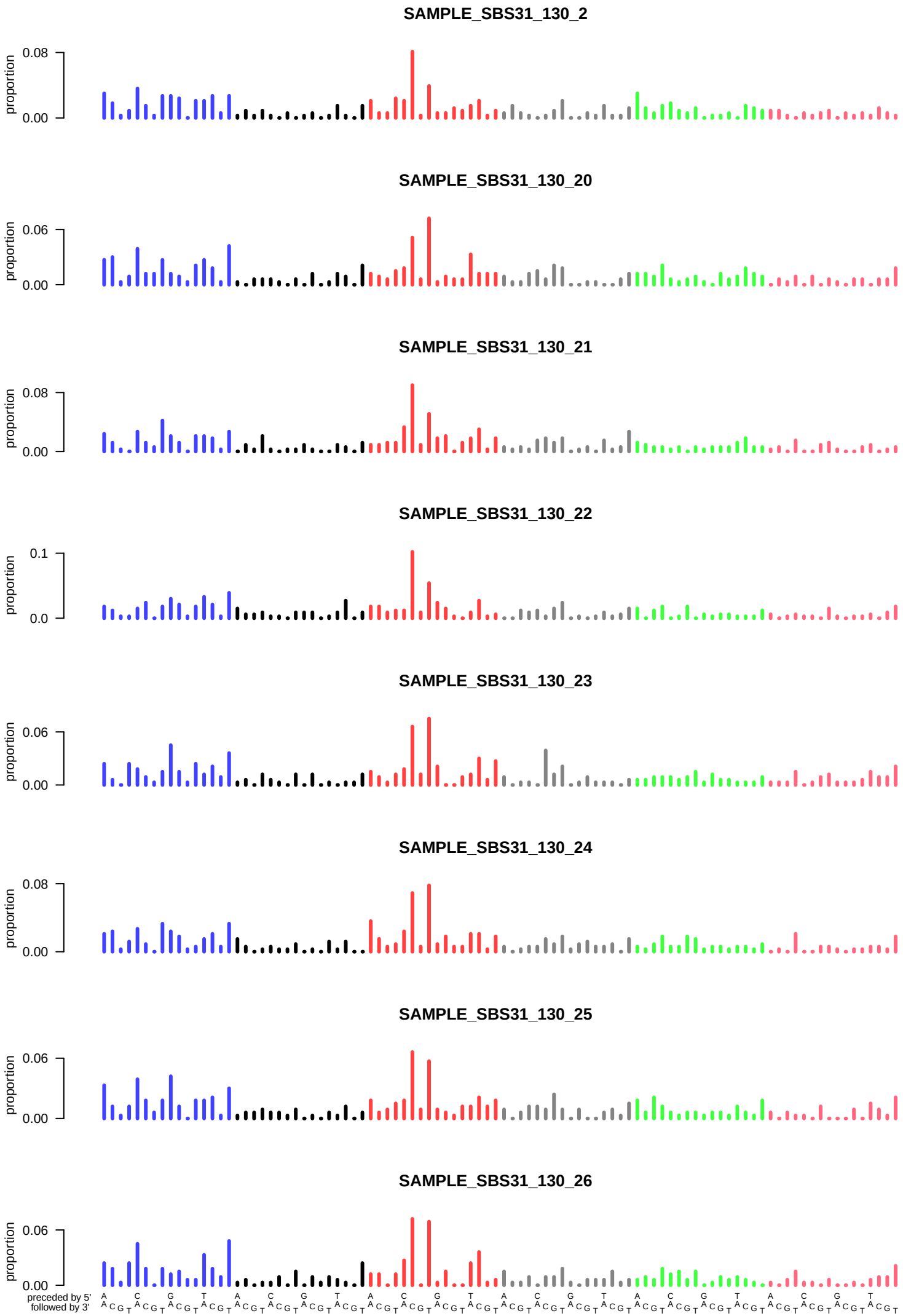
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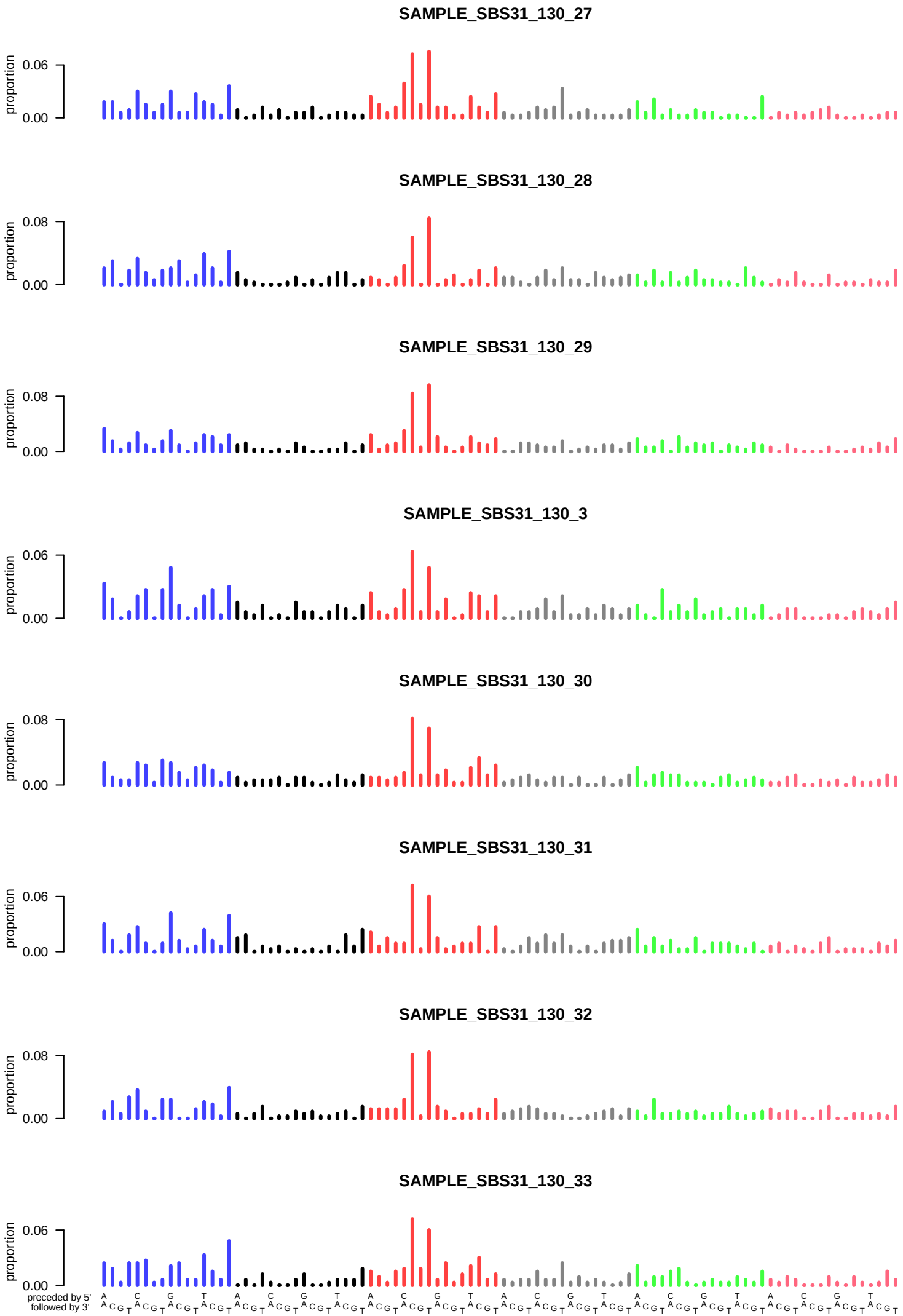
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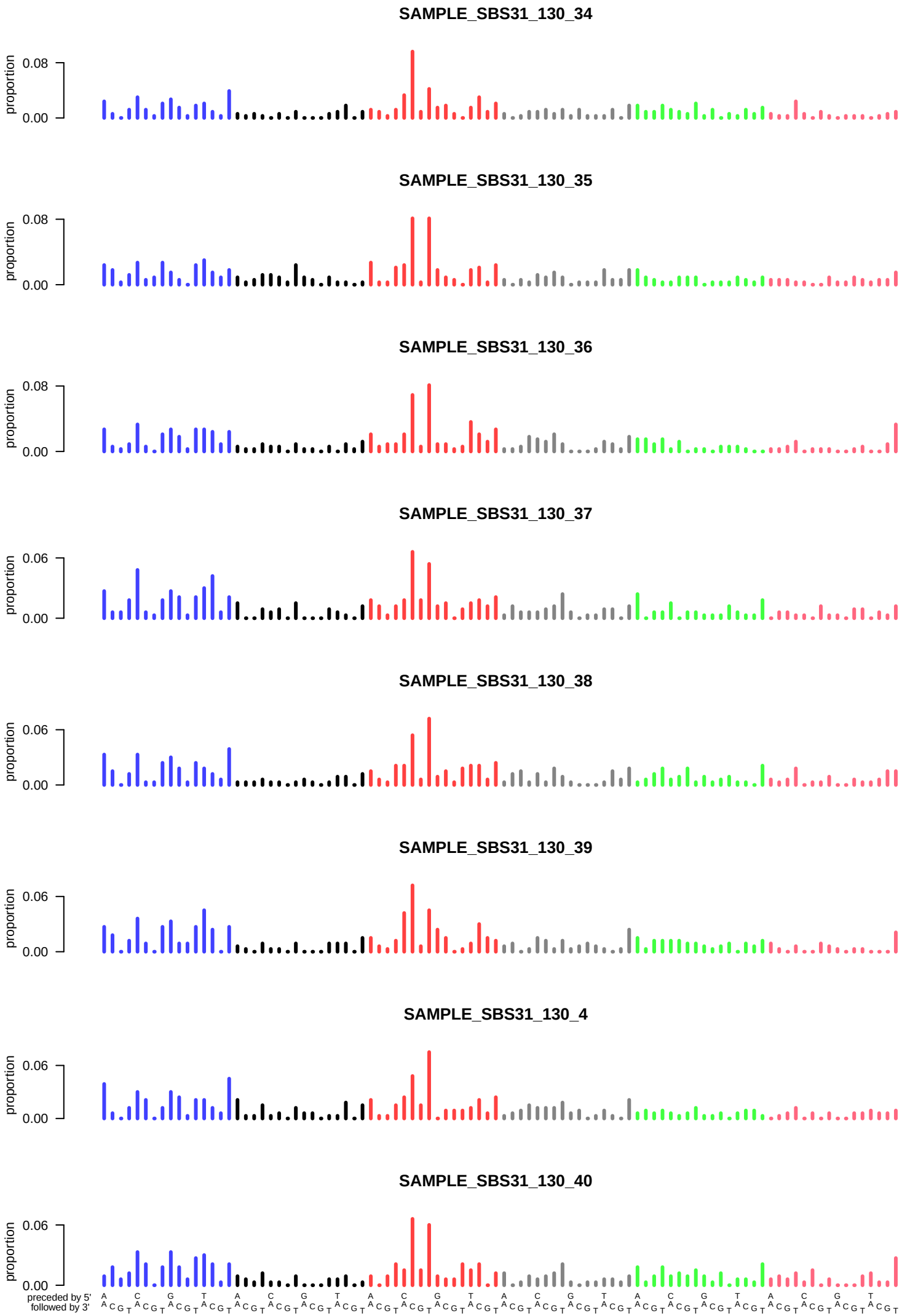
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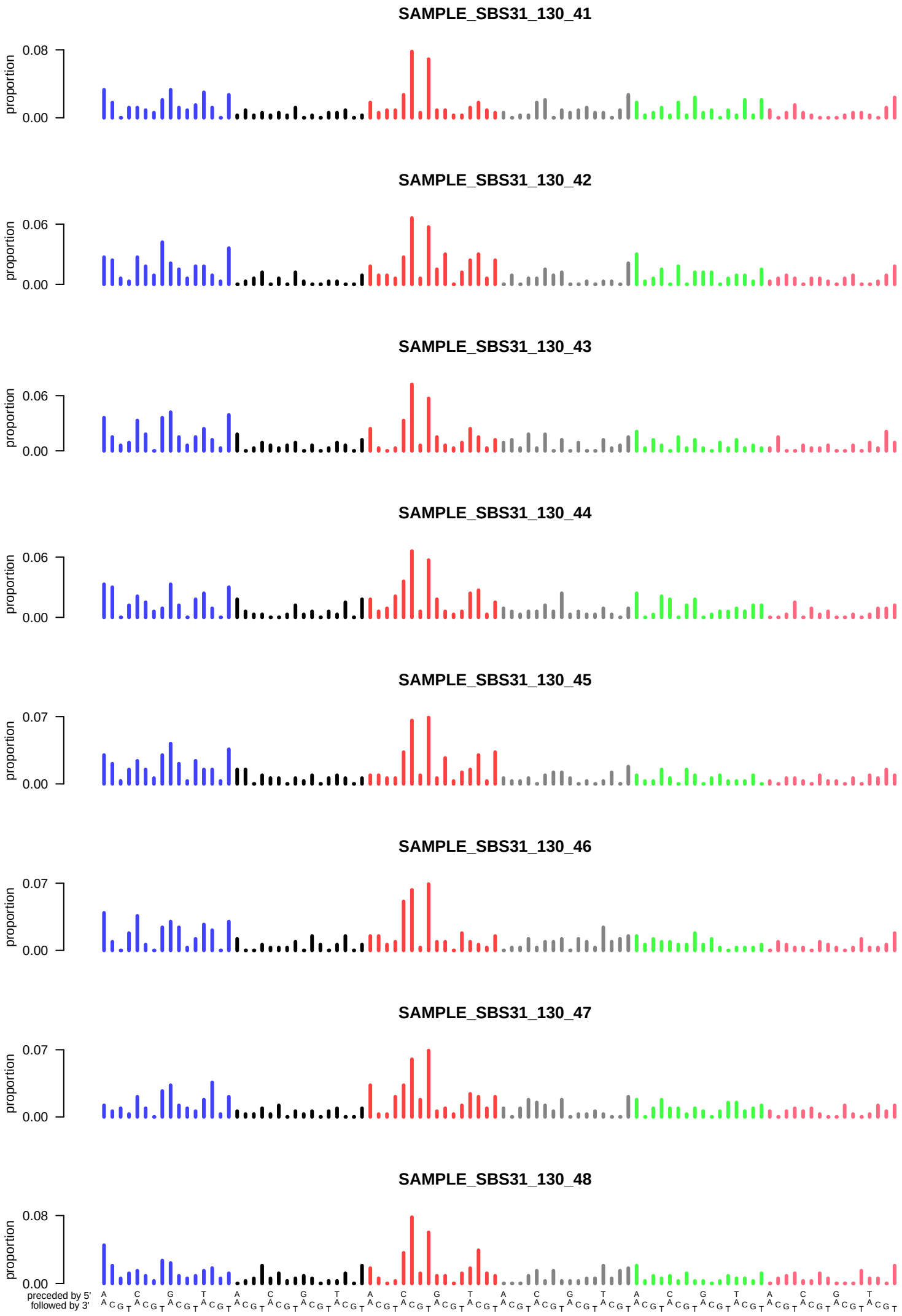
A C G T A C G T A C G T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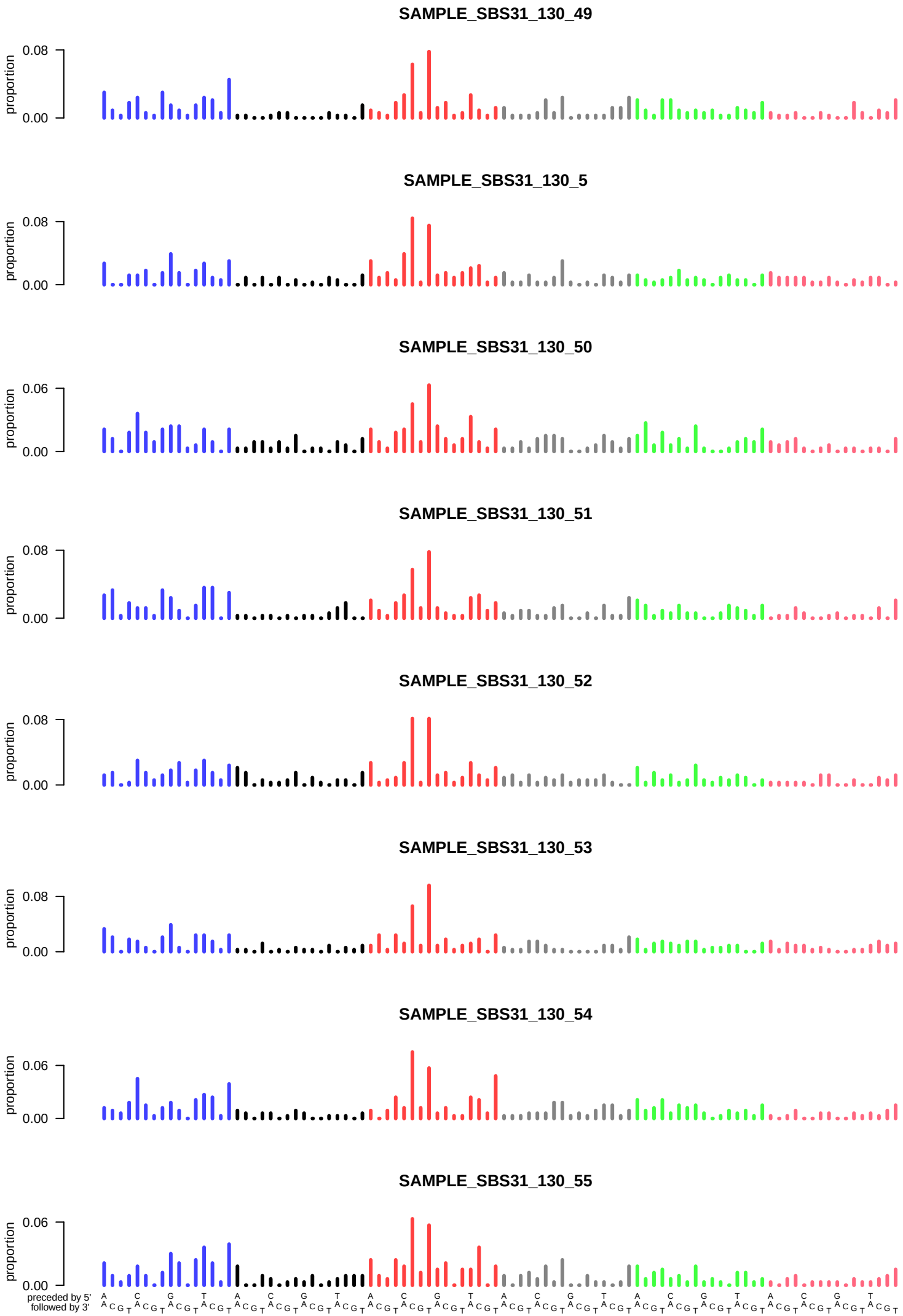
followed by 3'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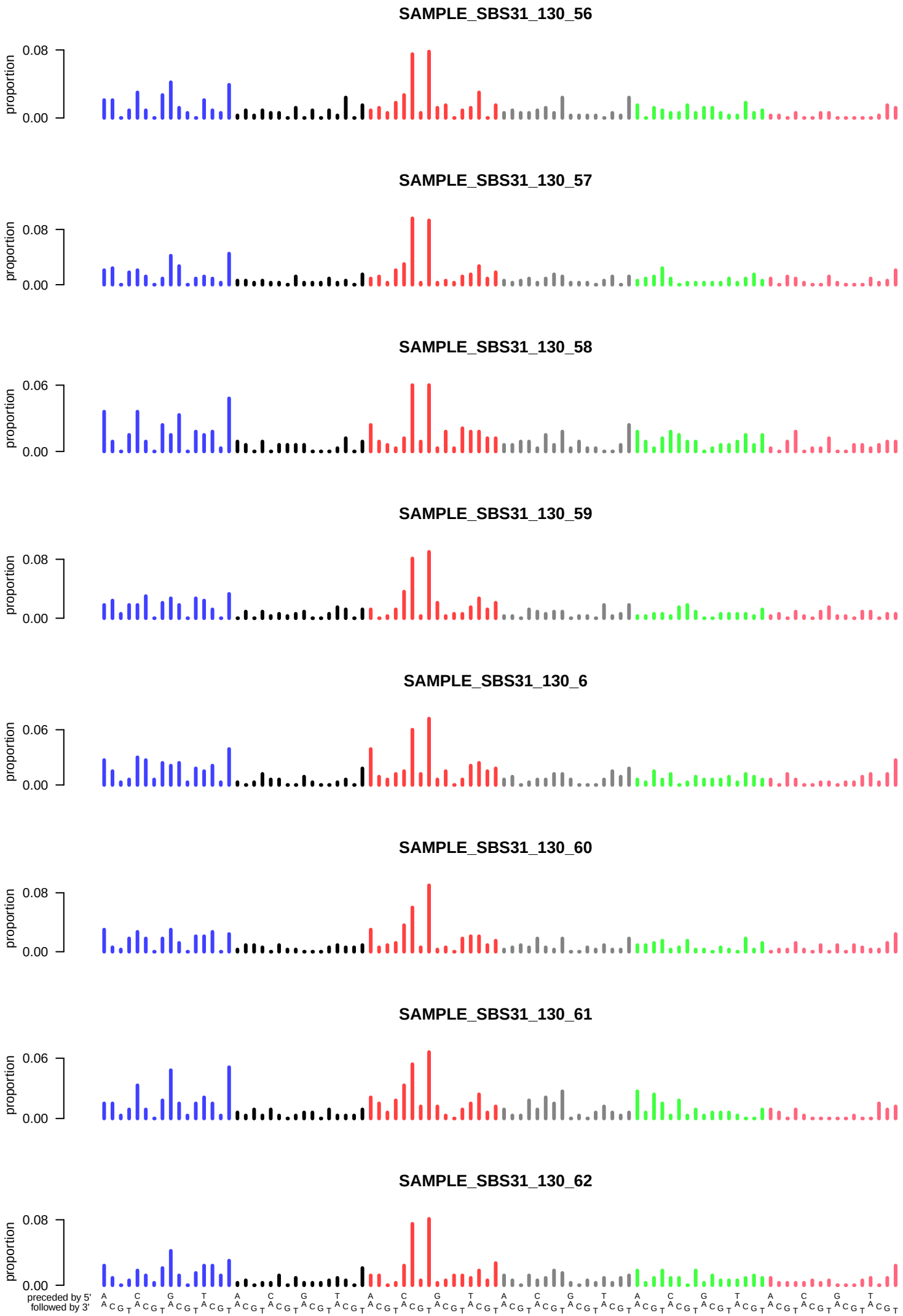
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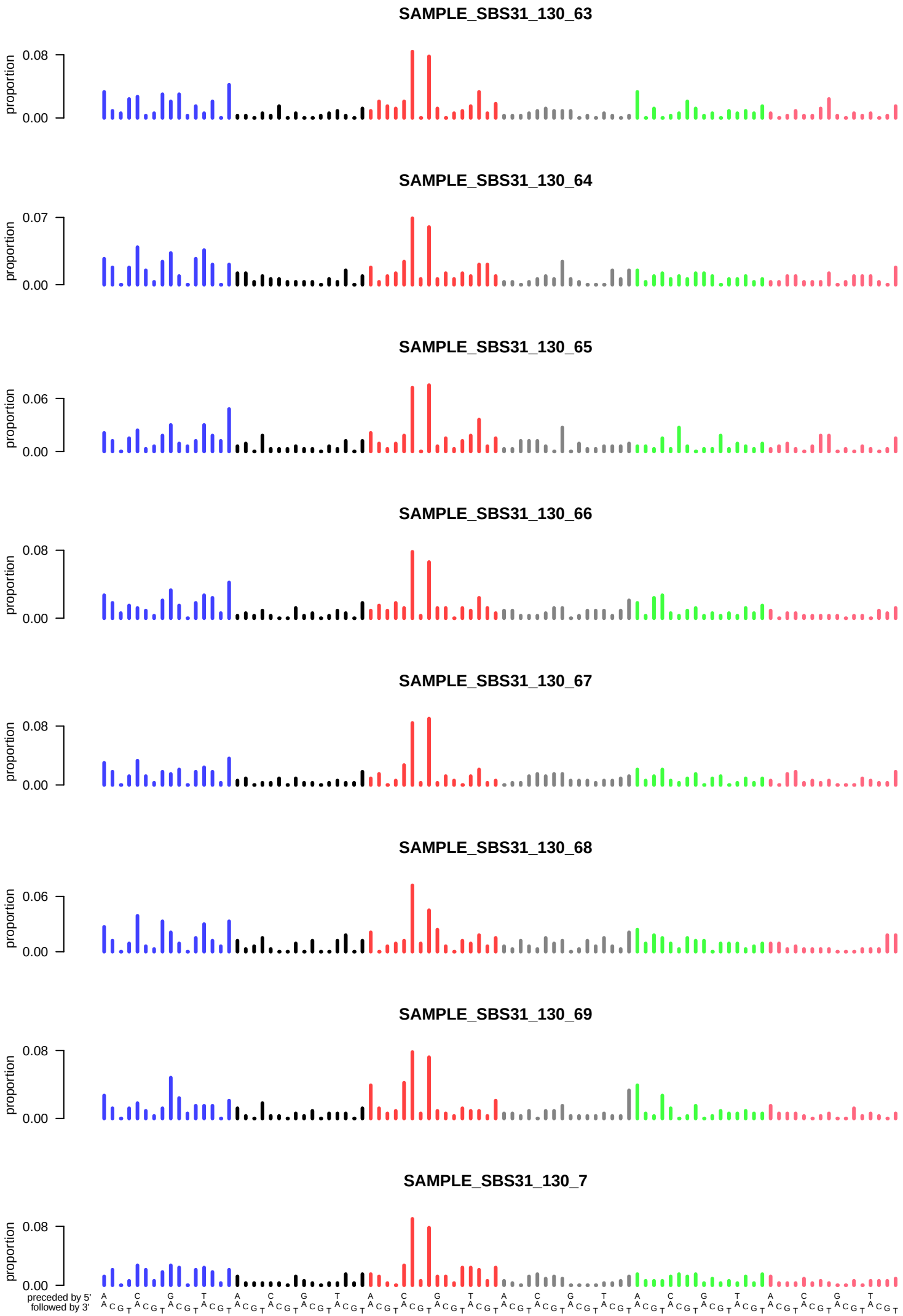
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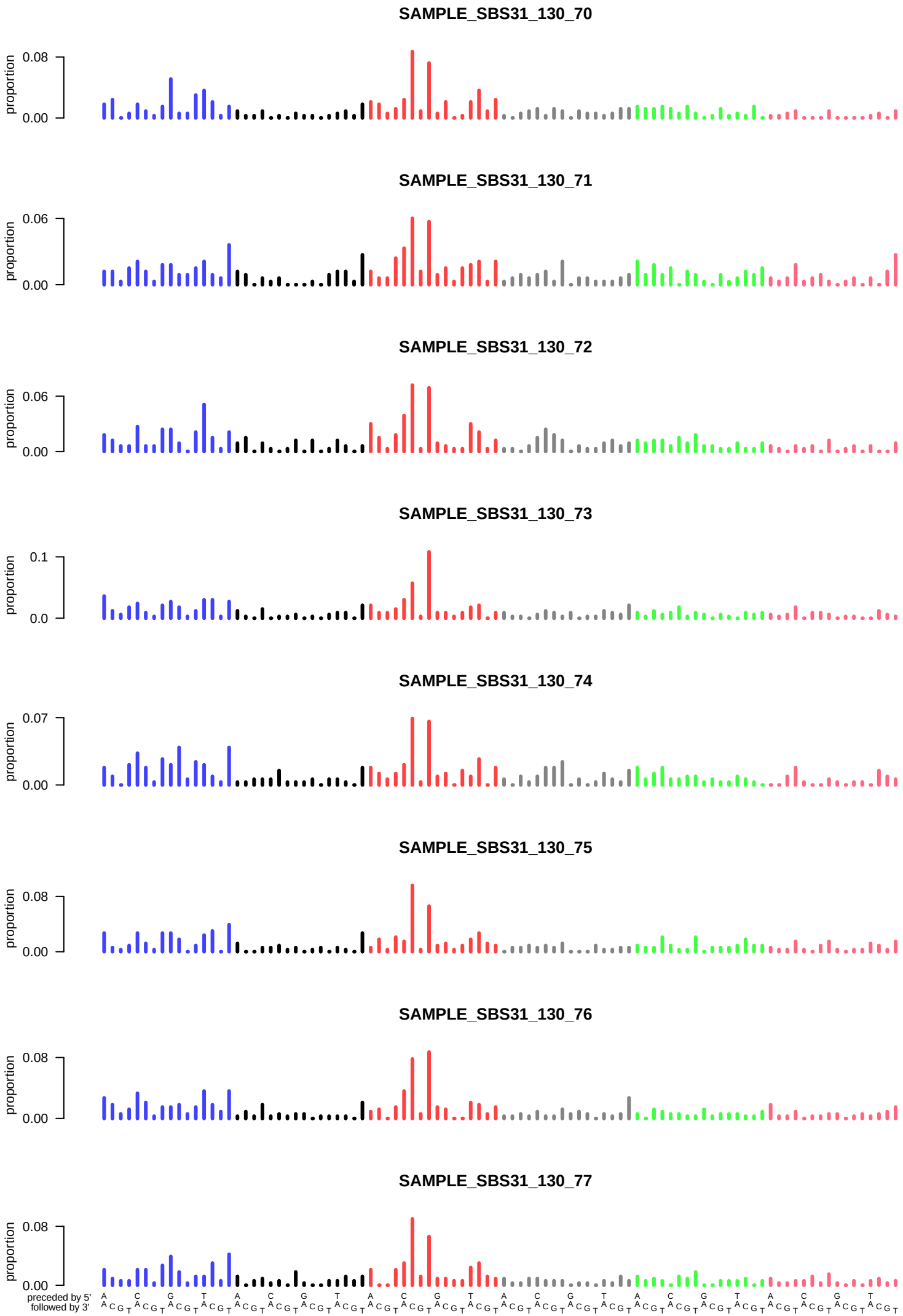
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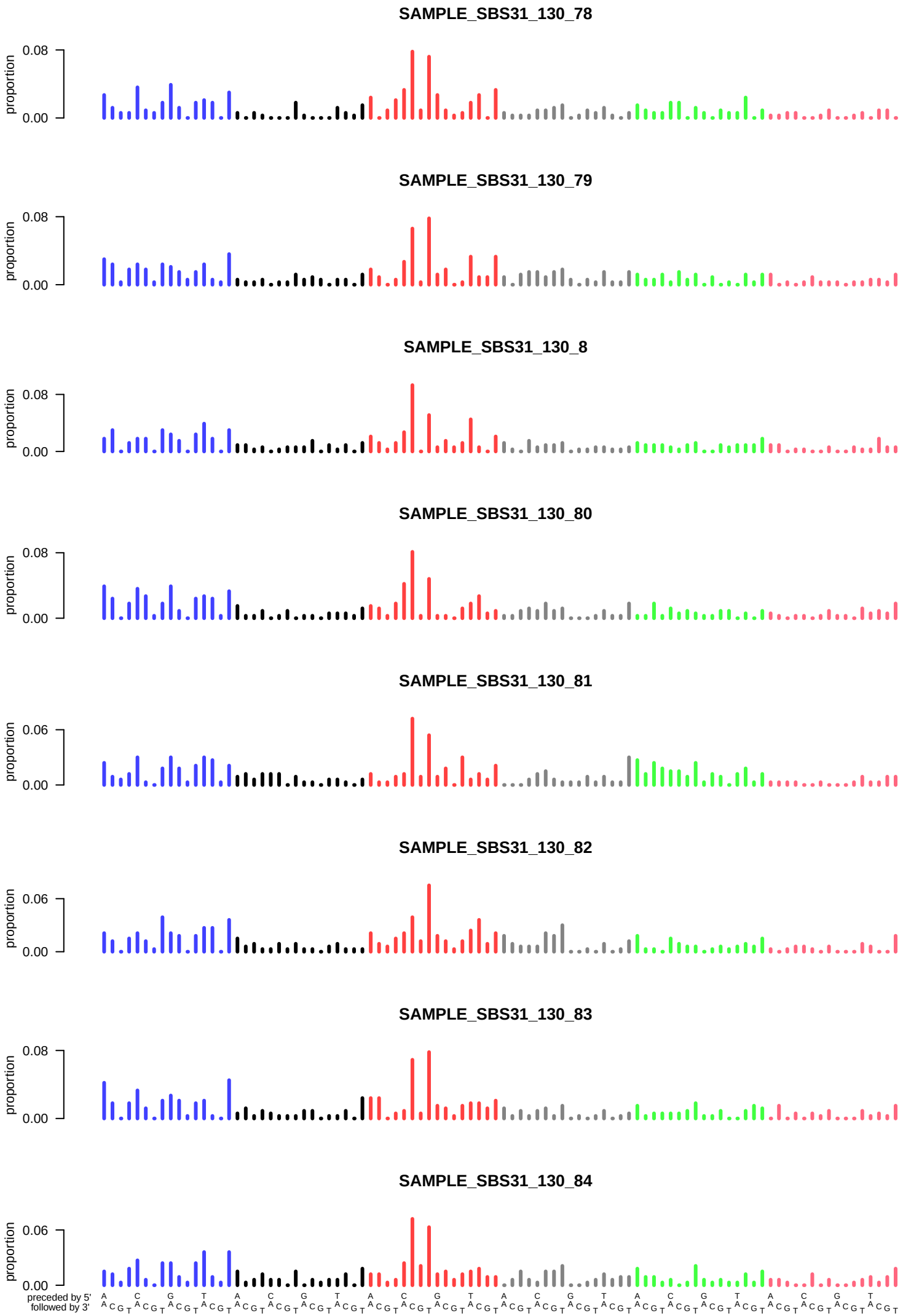
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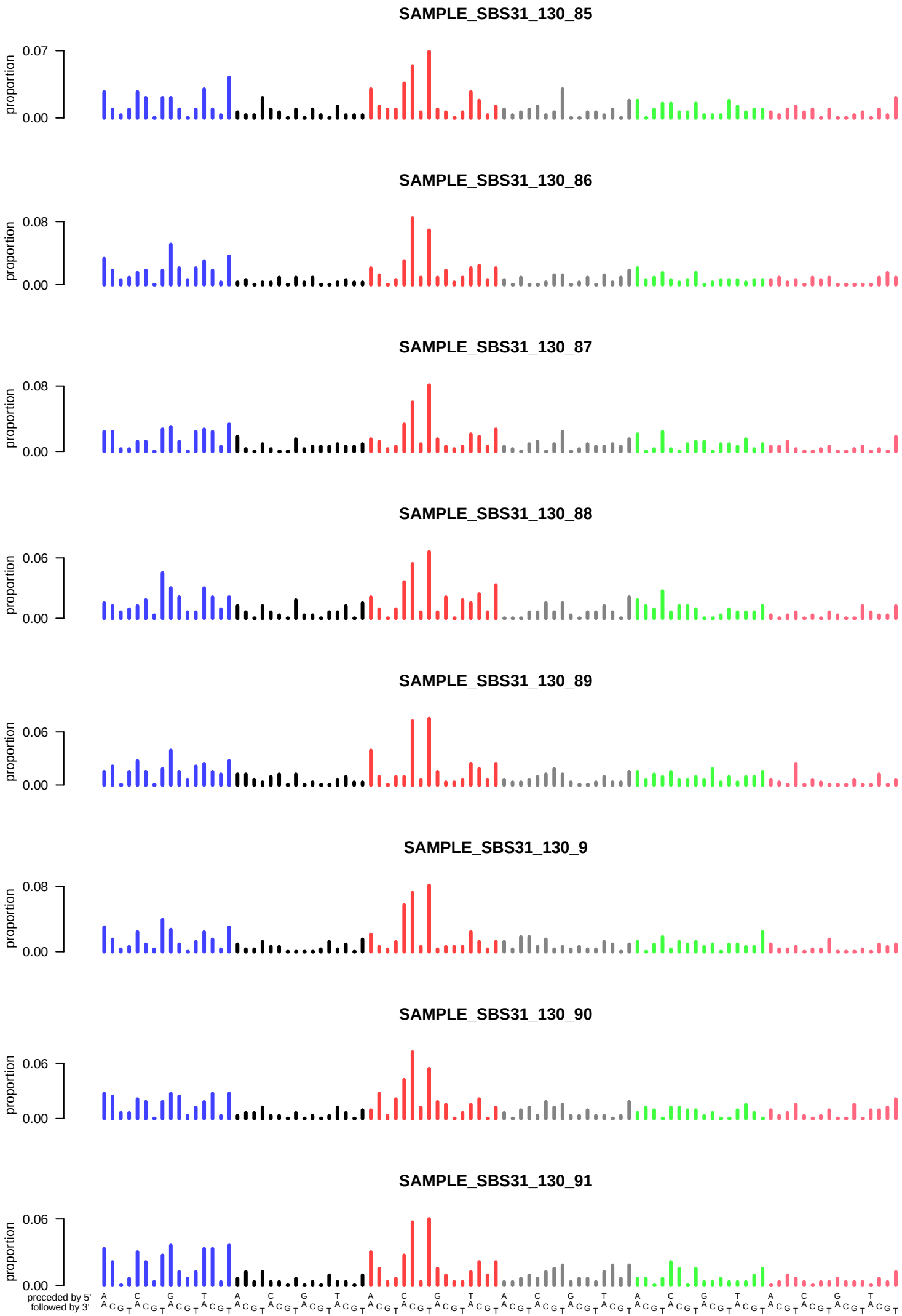
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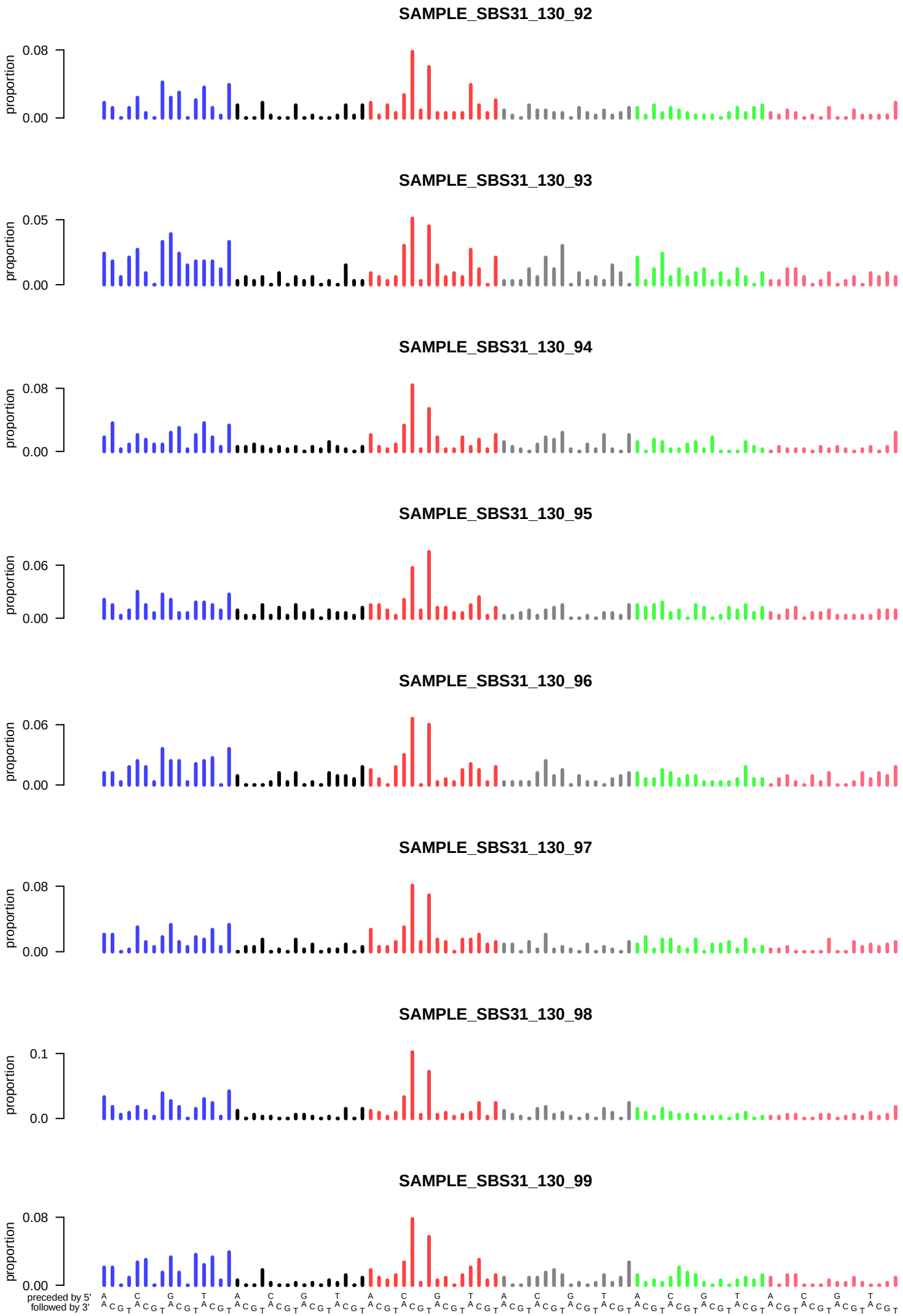
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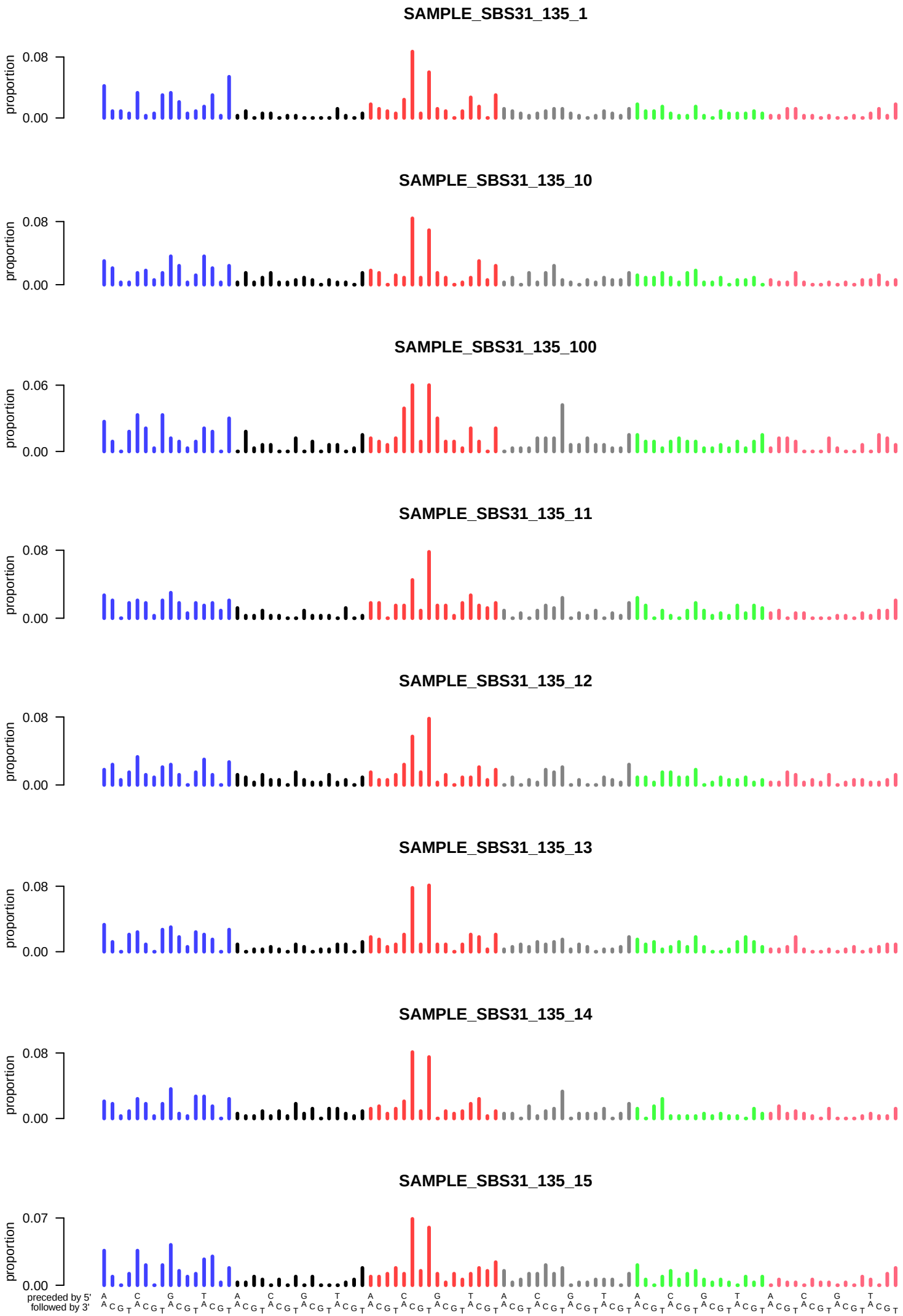
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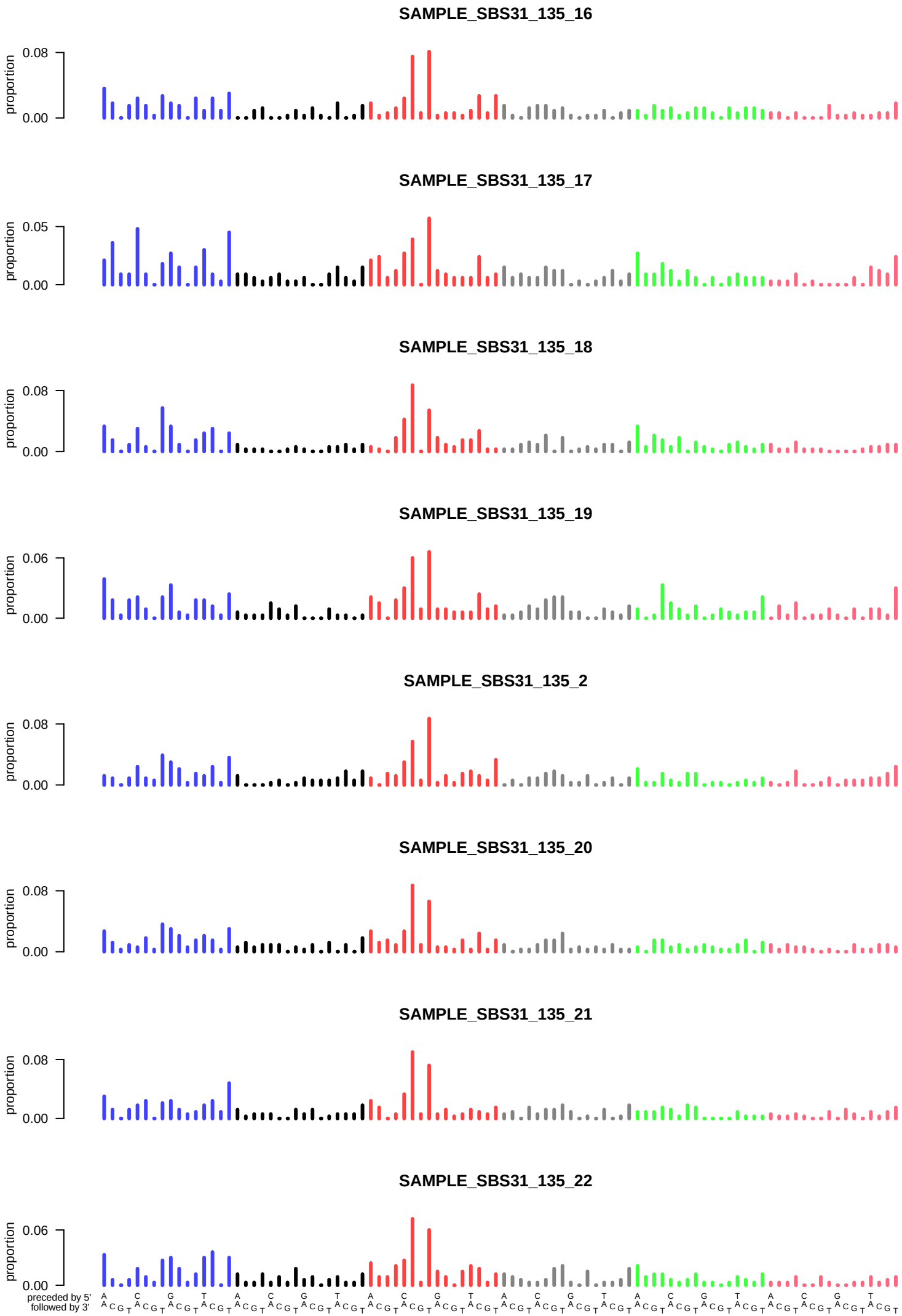
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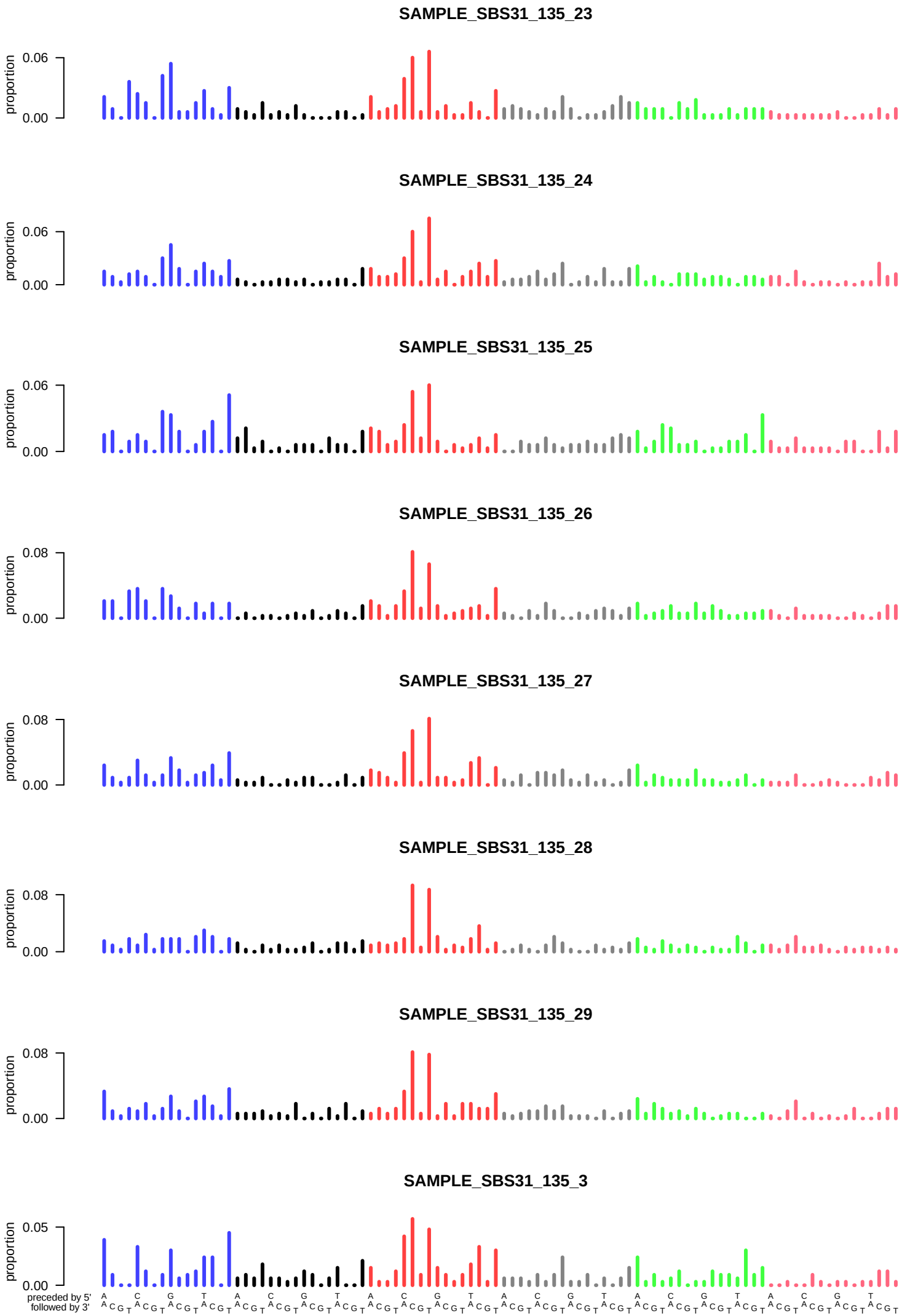
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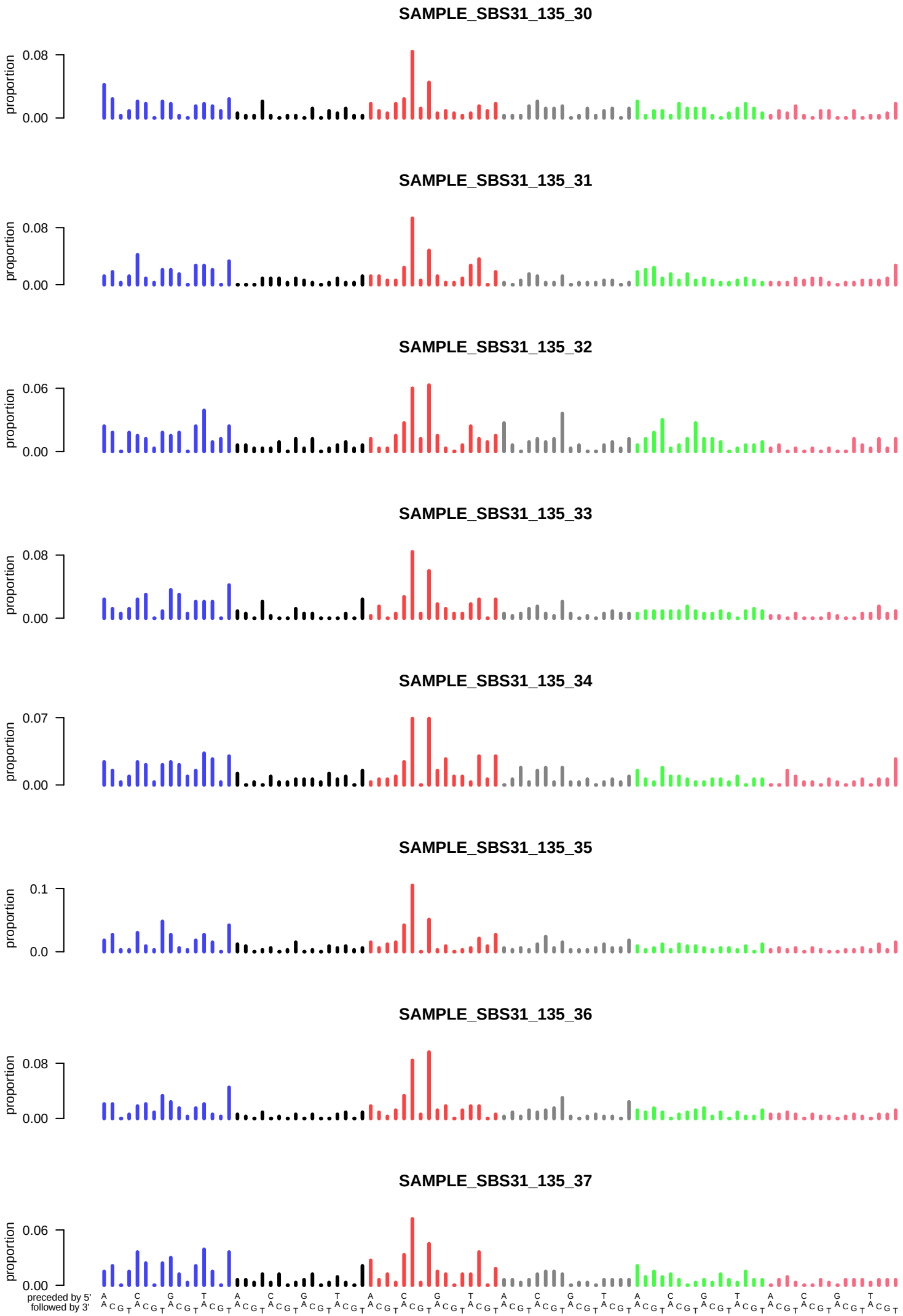
followed by 3'
A C G T A C G T A C G T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followed by 3'
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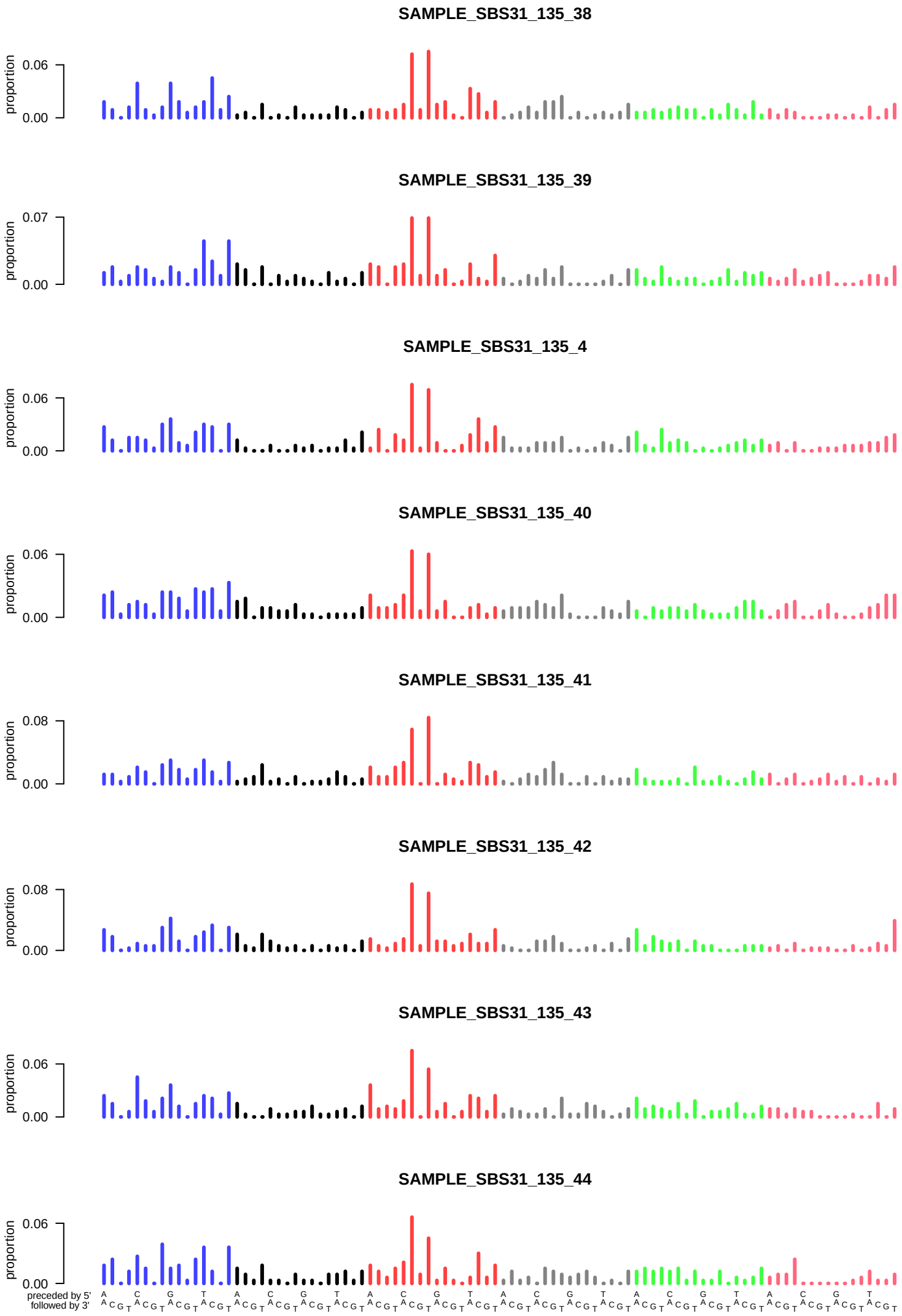
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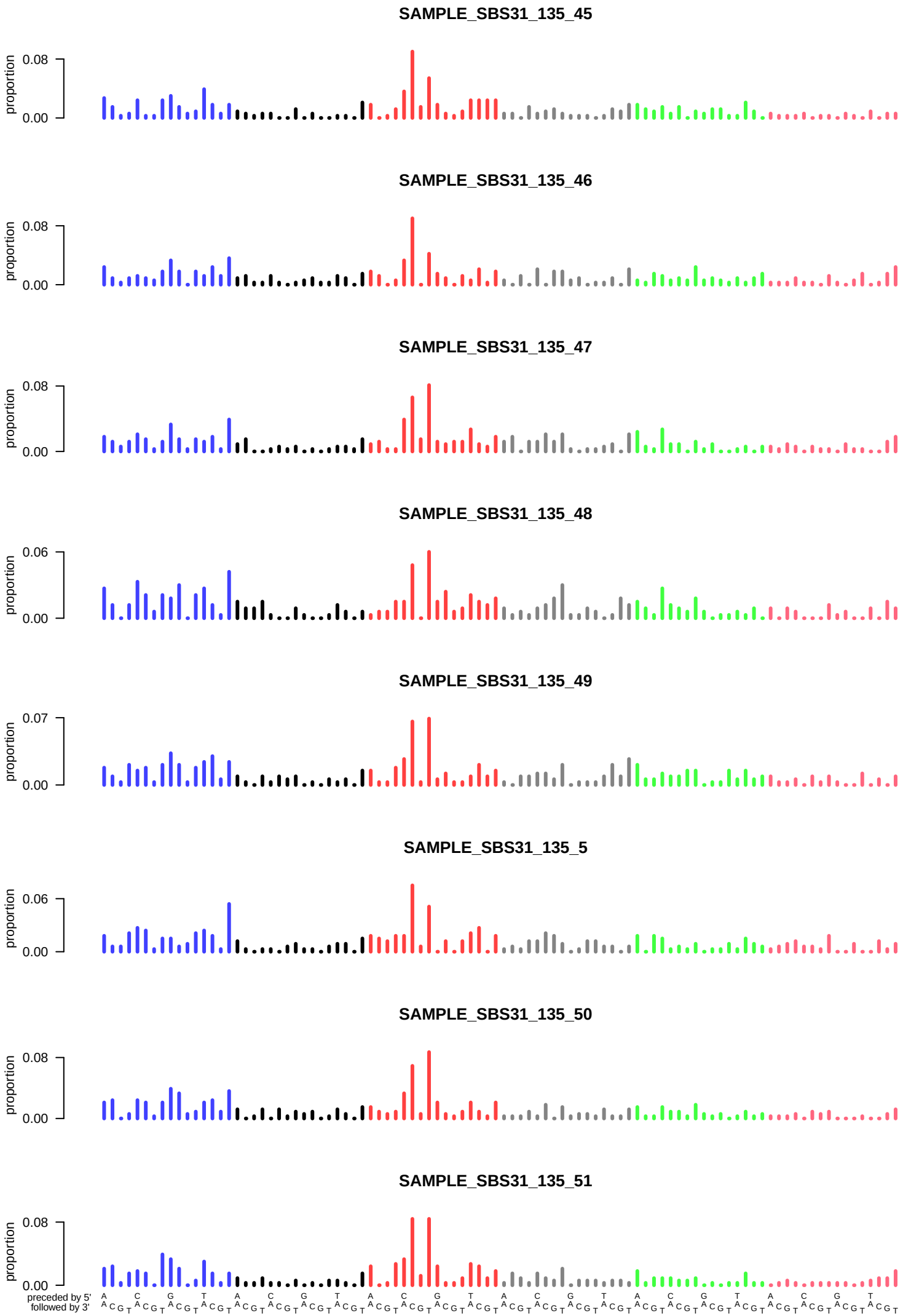
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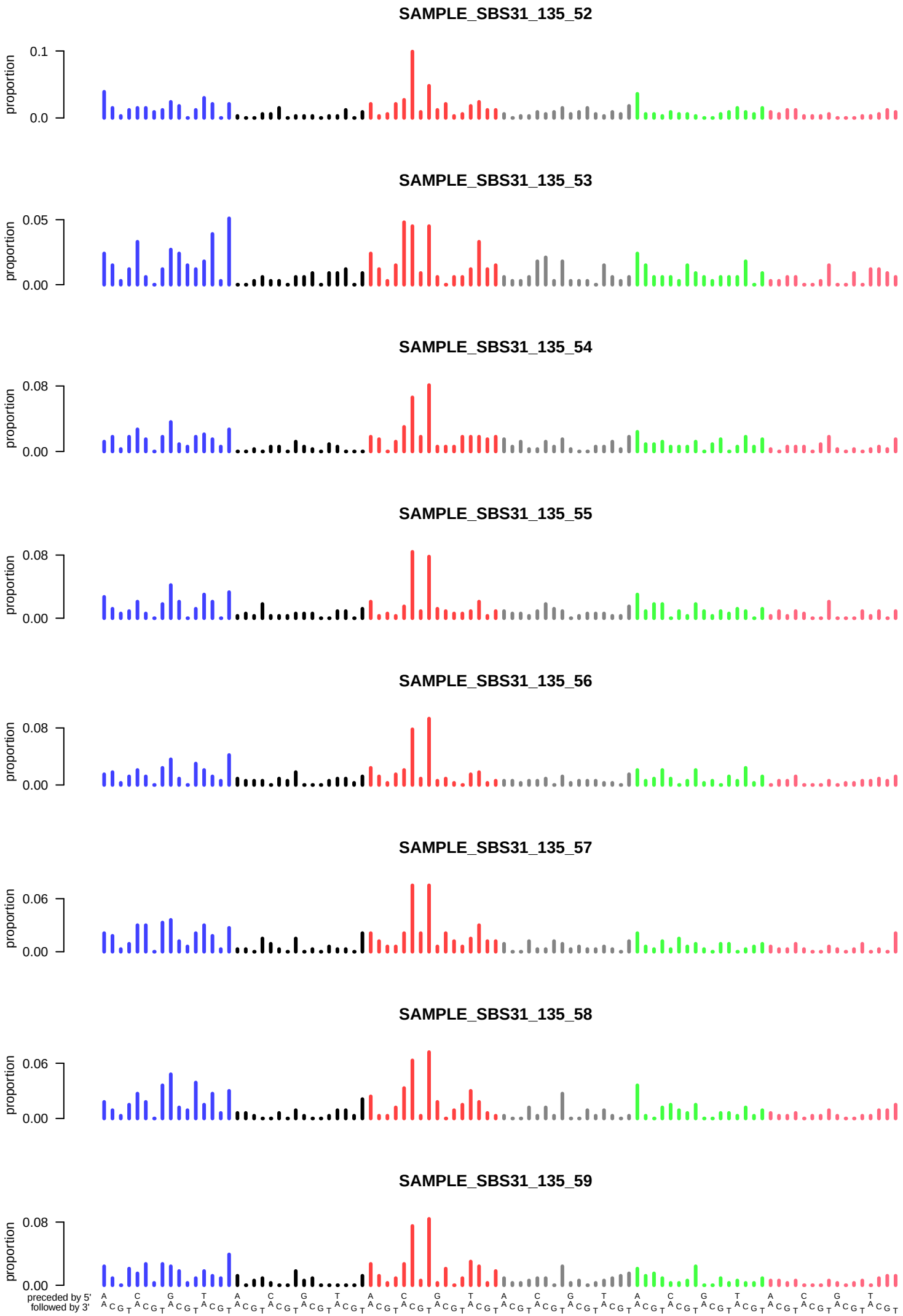
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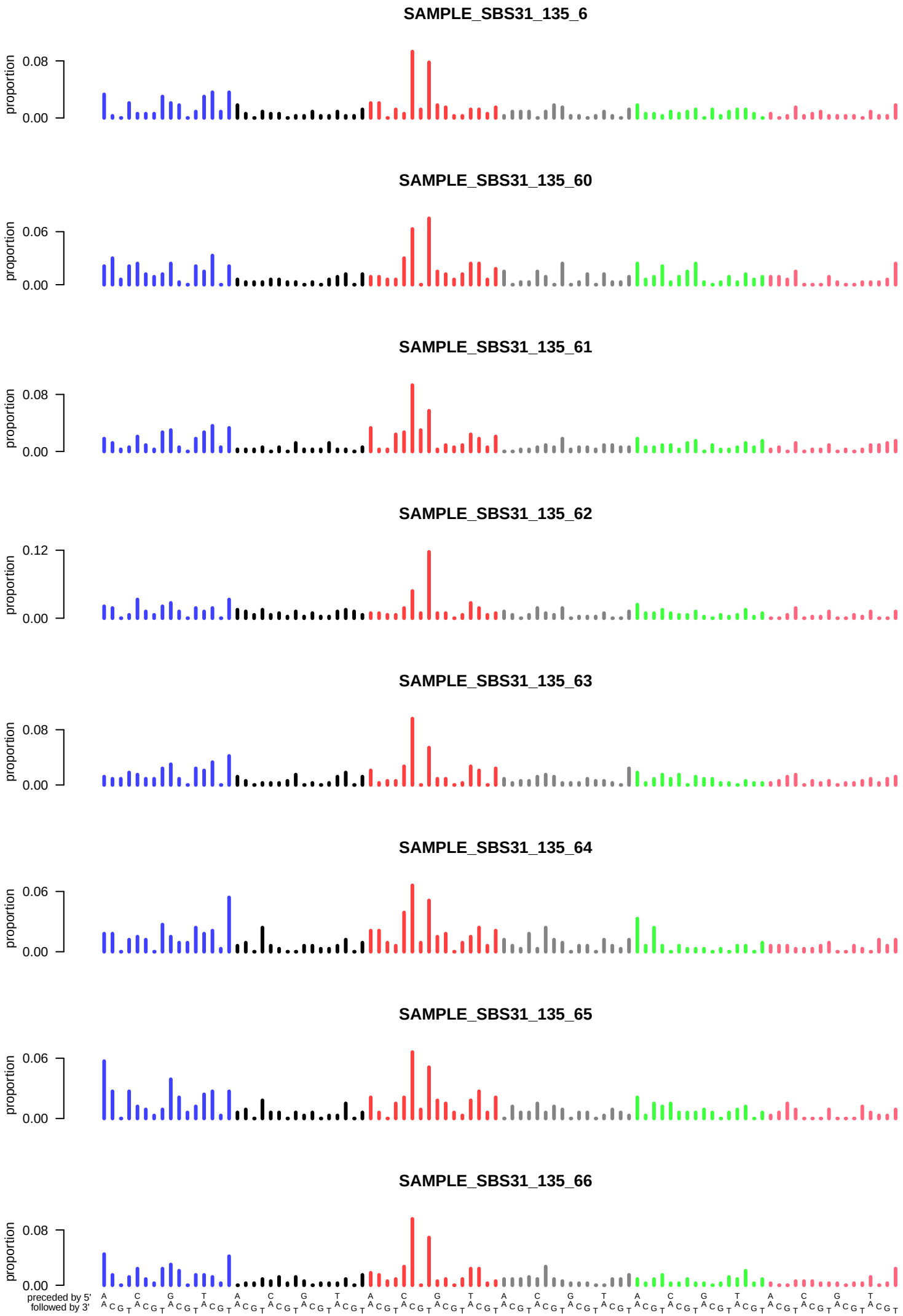
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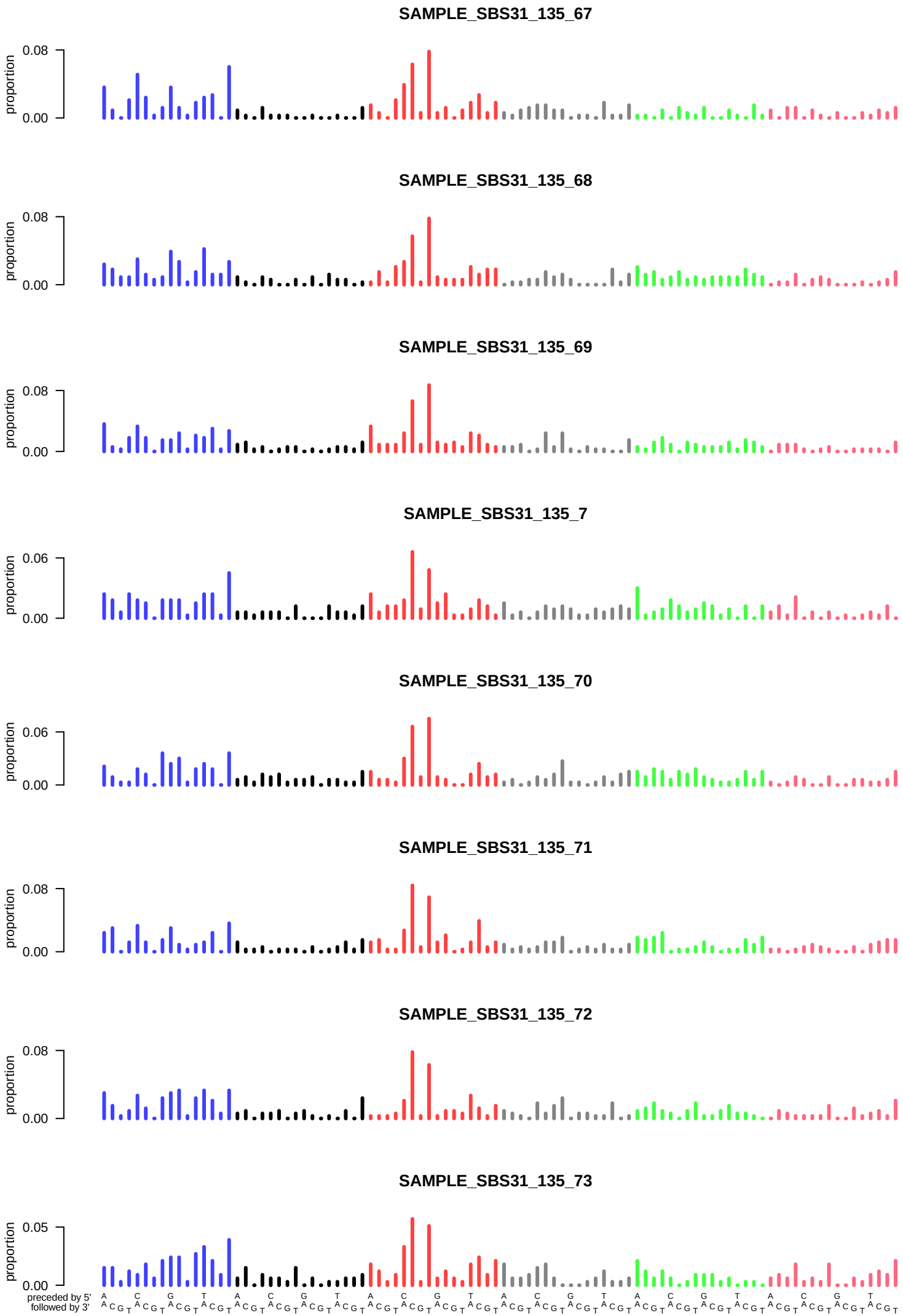
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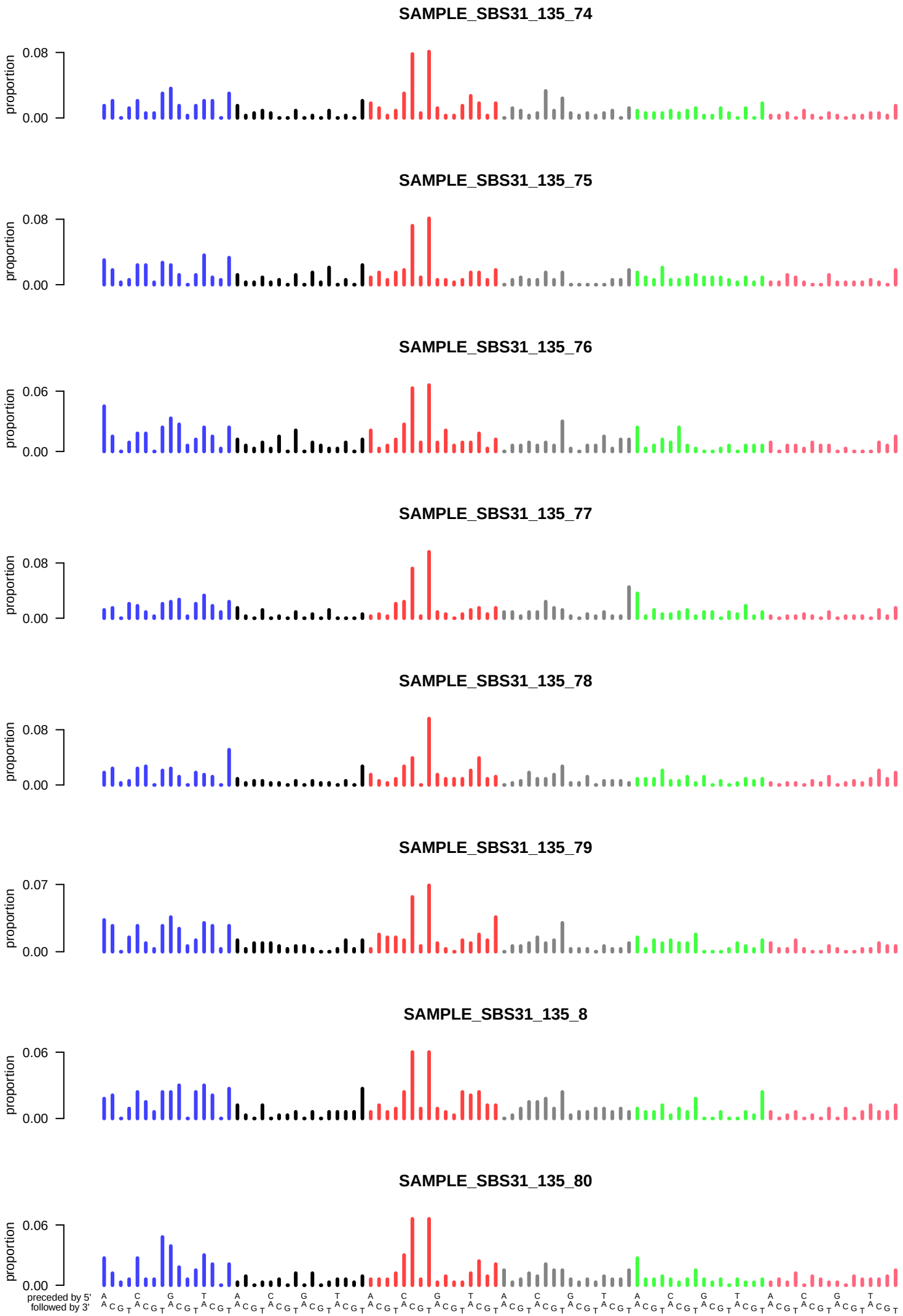
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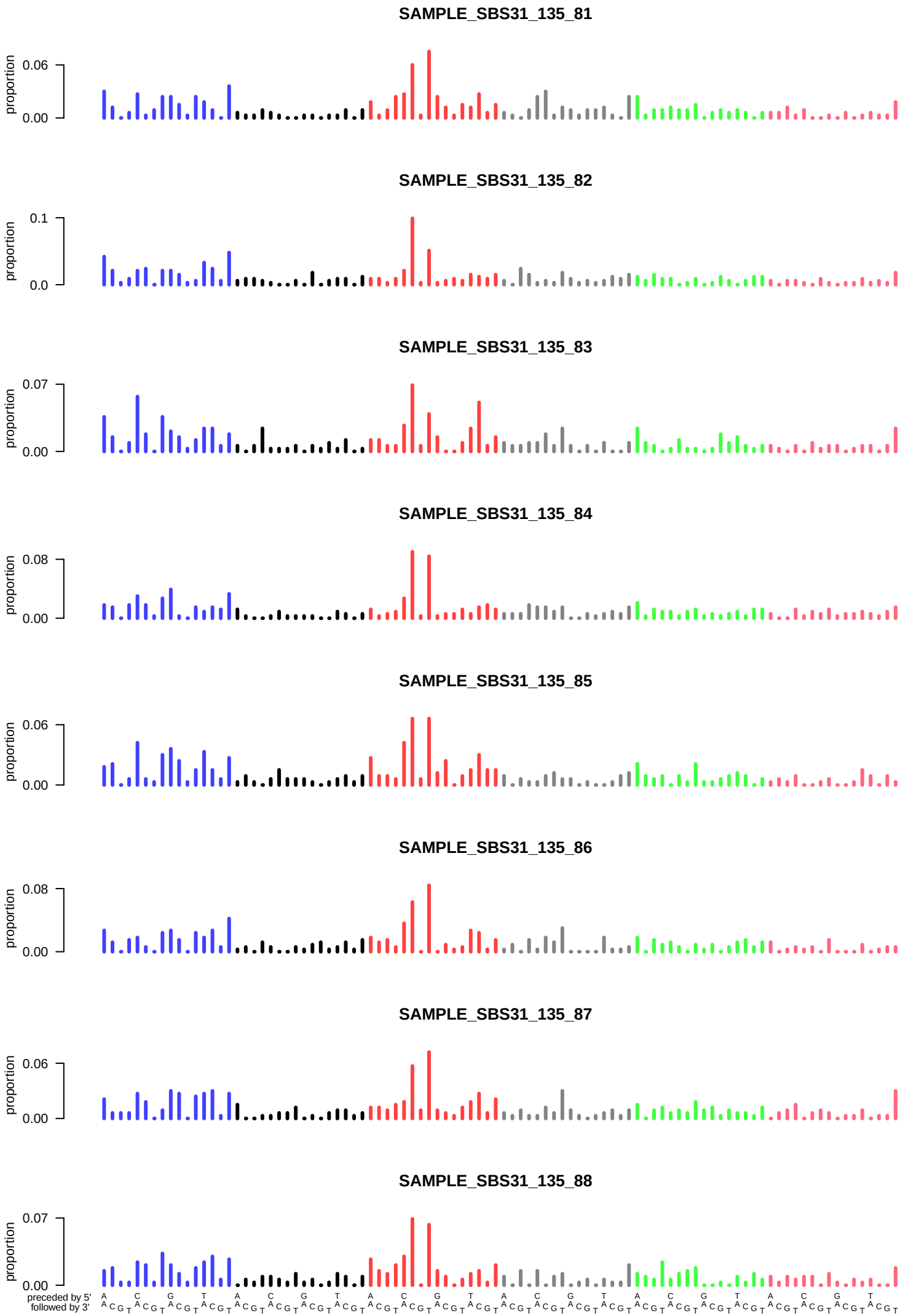
followed by 3'
A C G T A C G T A C G T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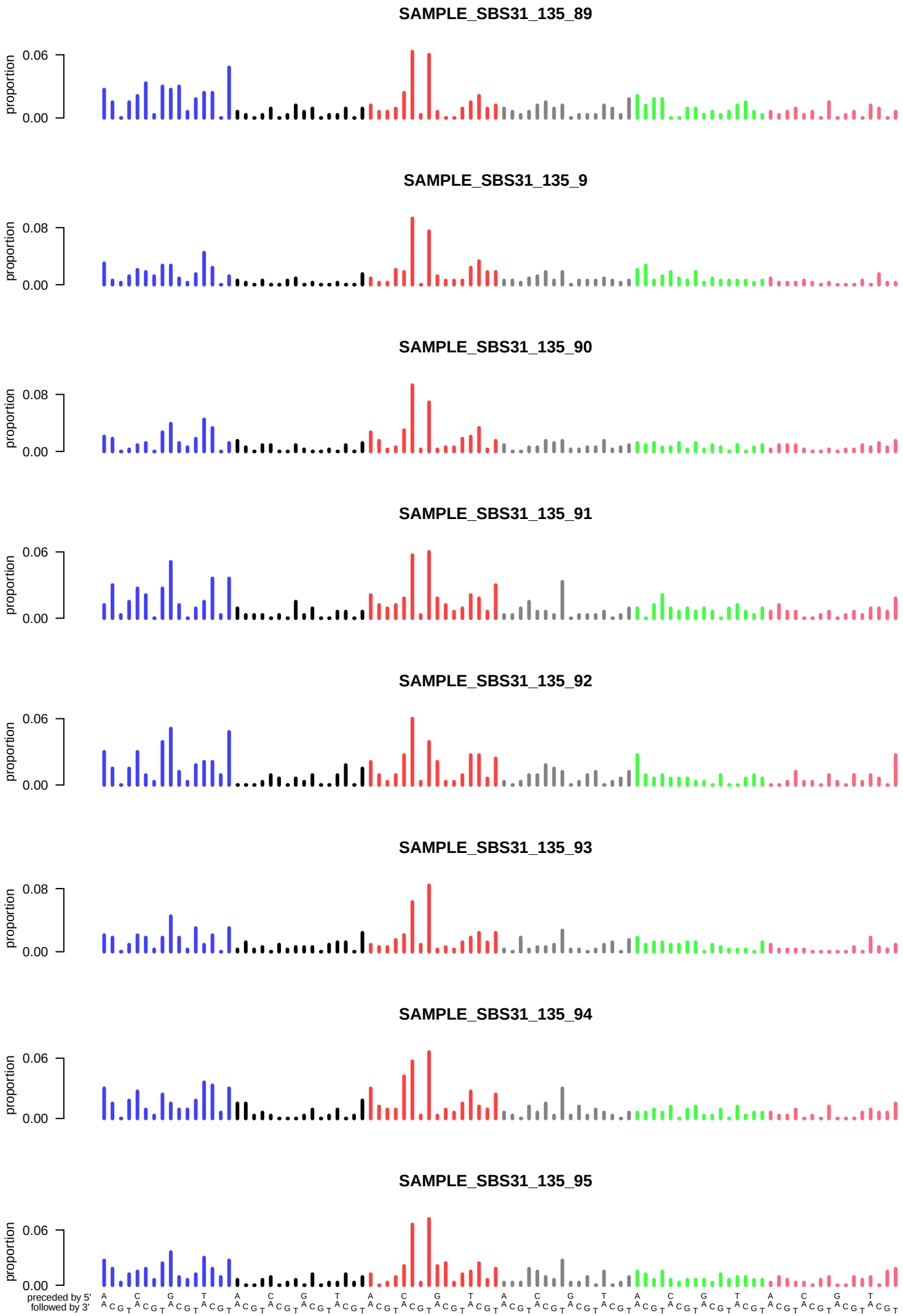
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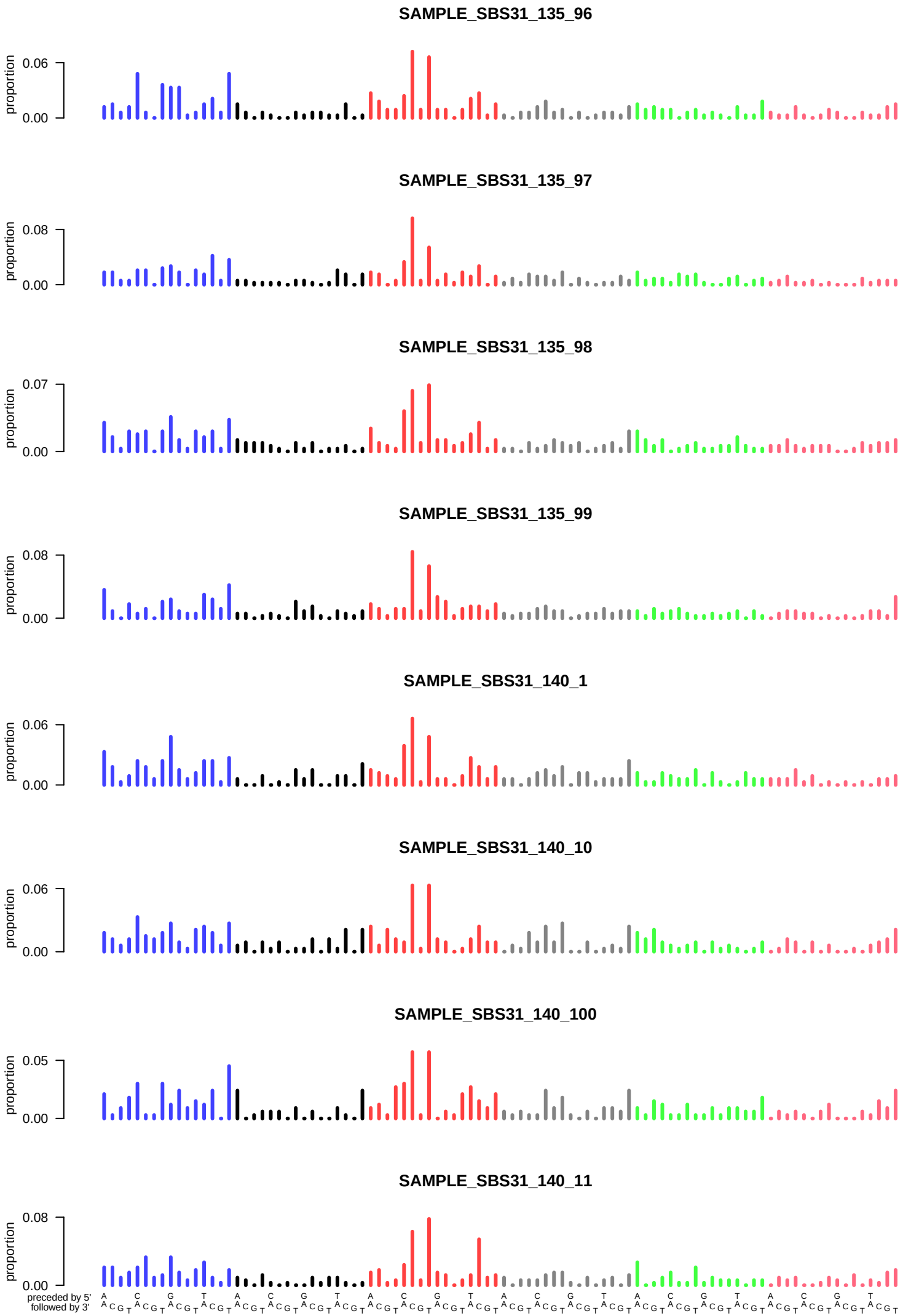
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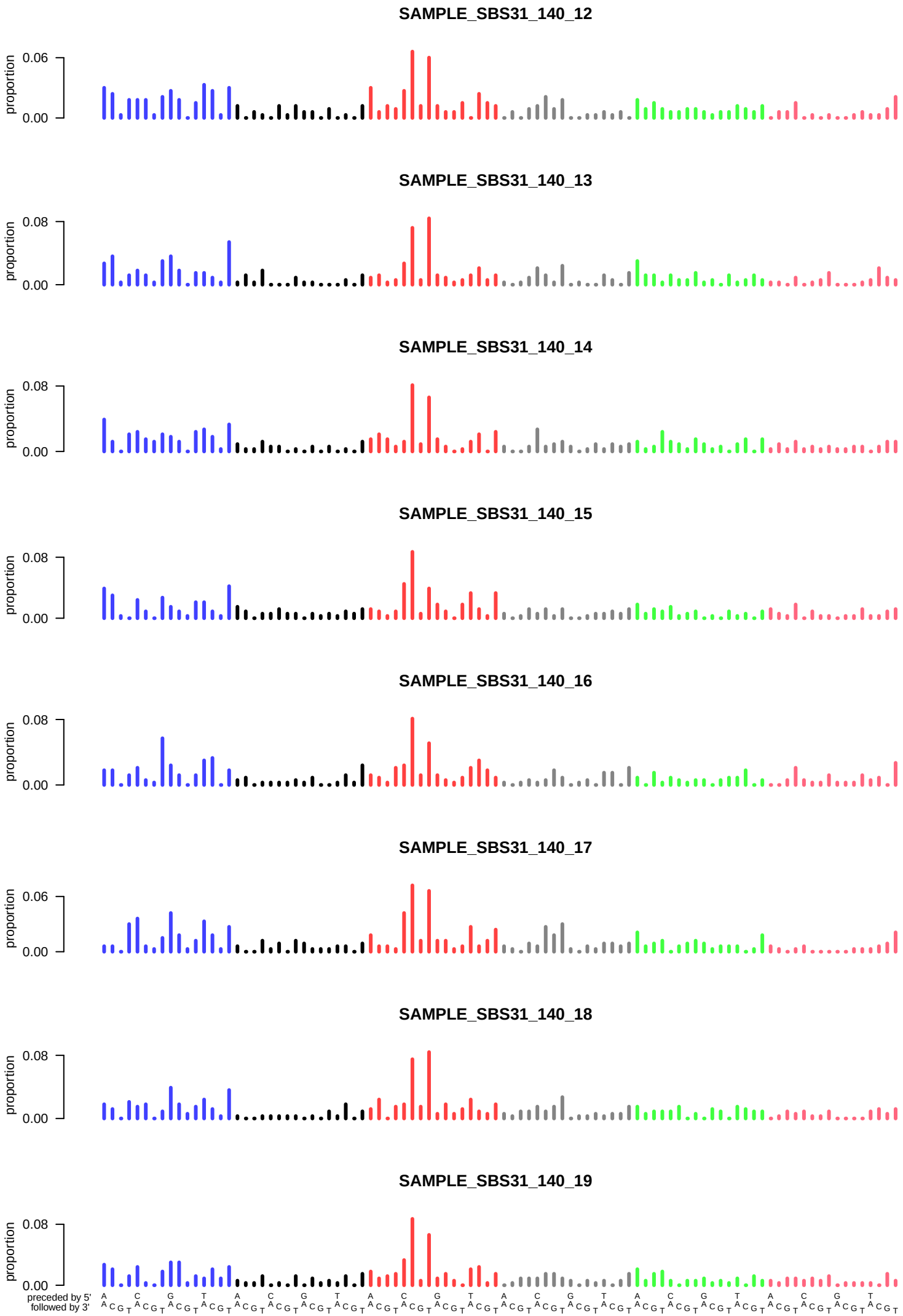
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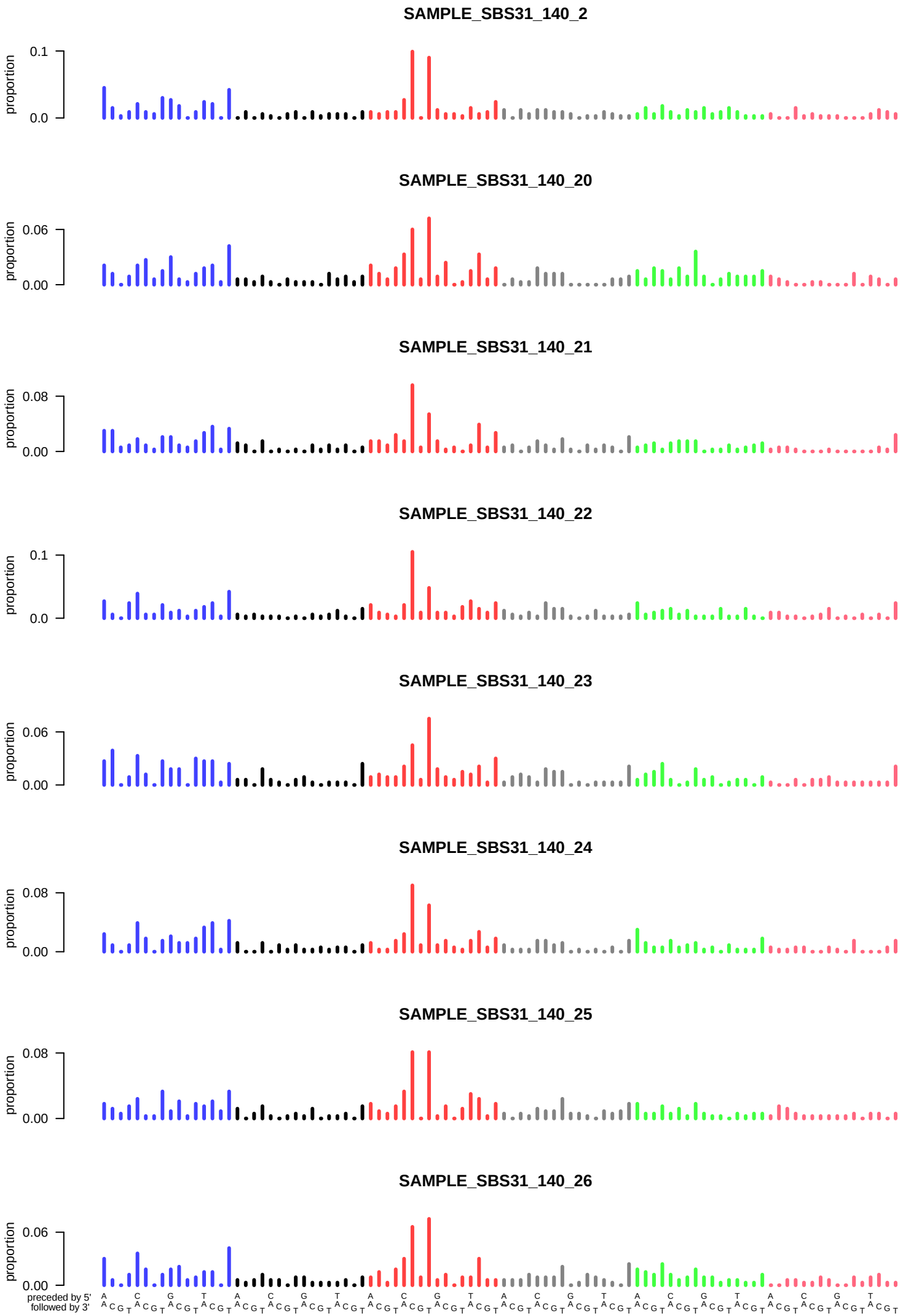
A C G T A C G T A C G T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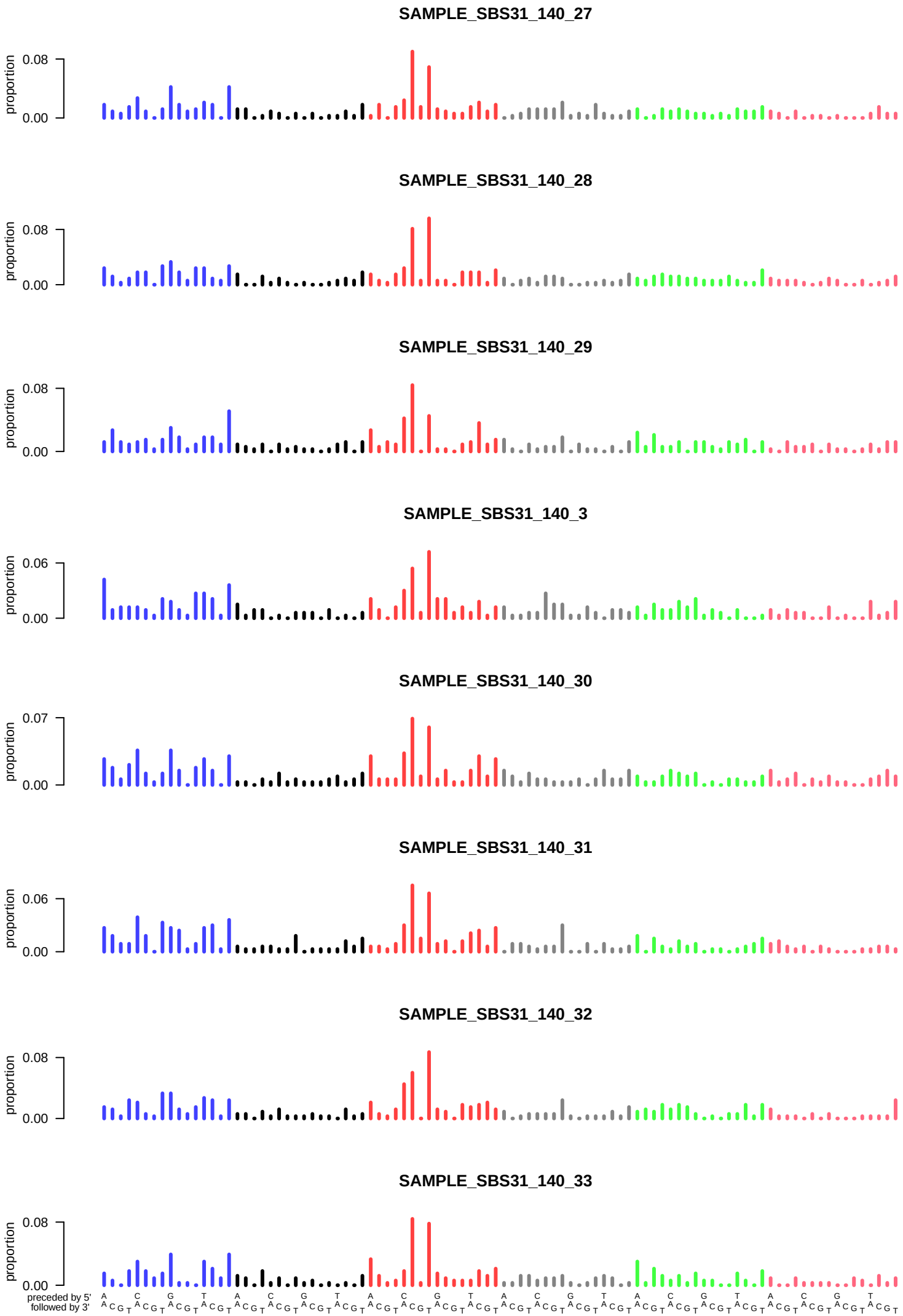
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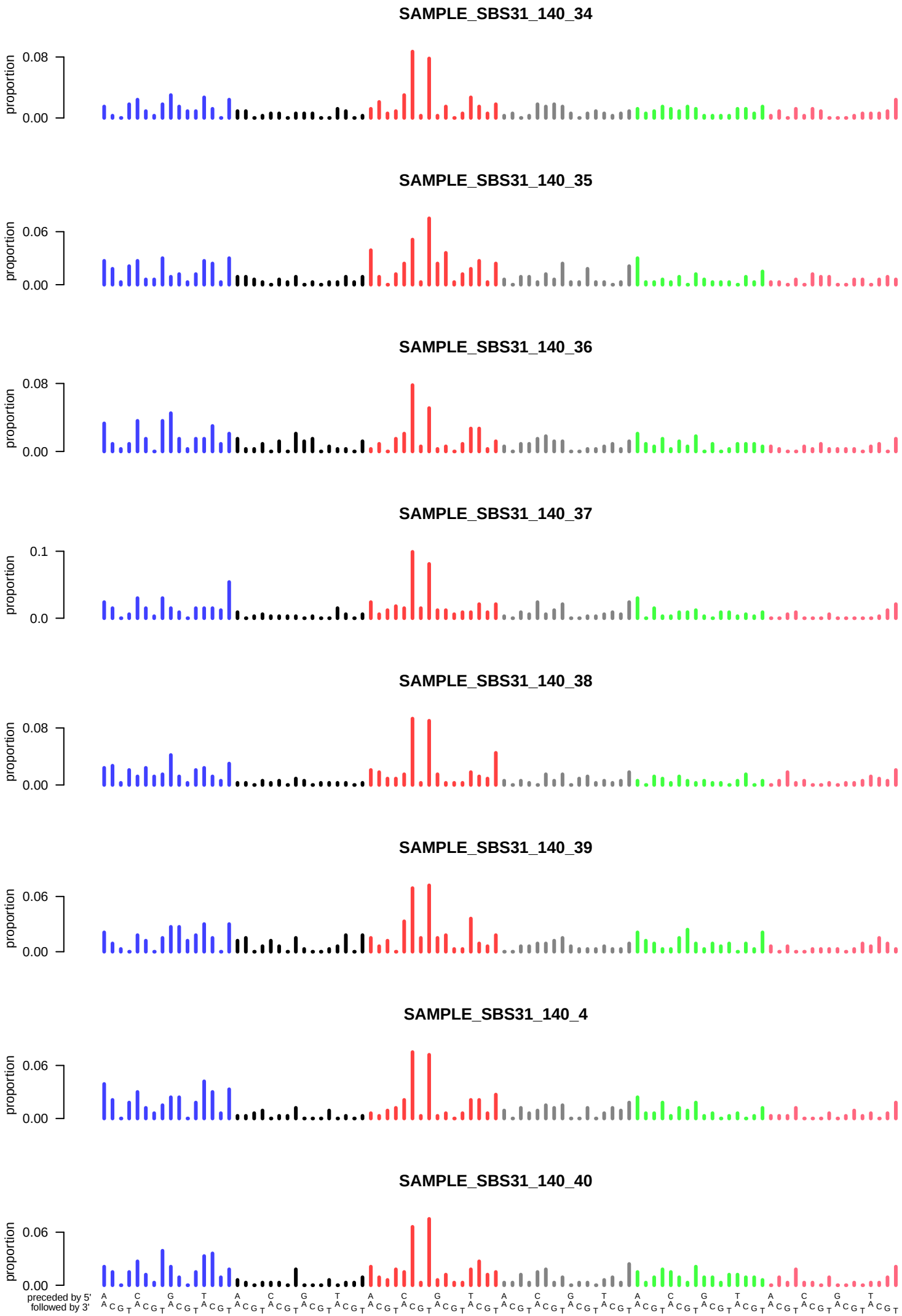
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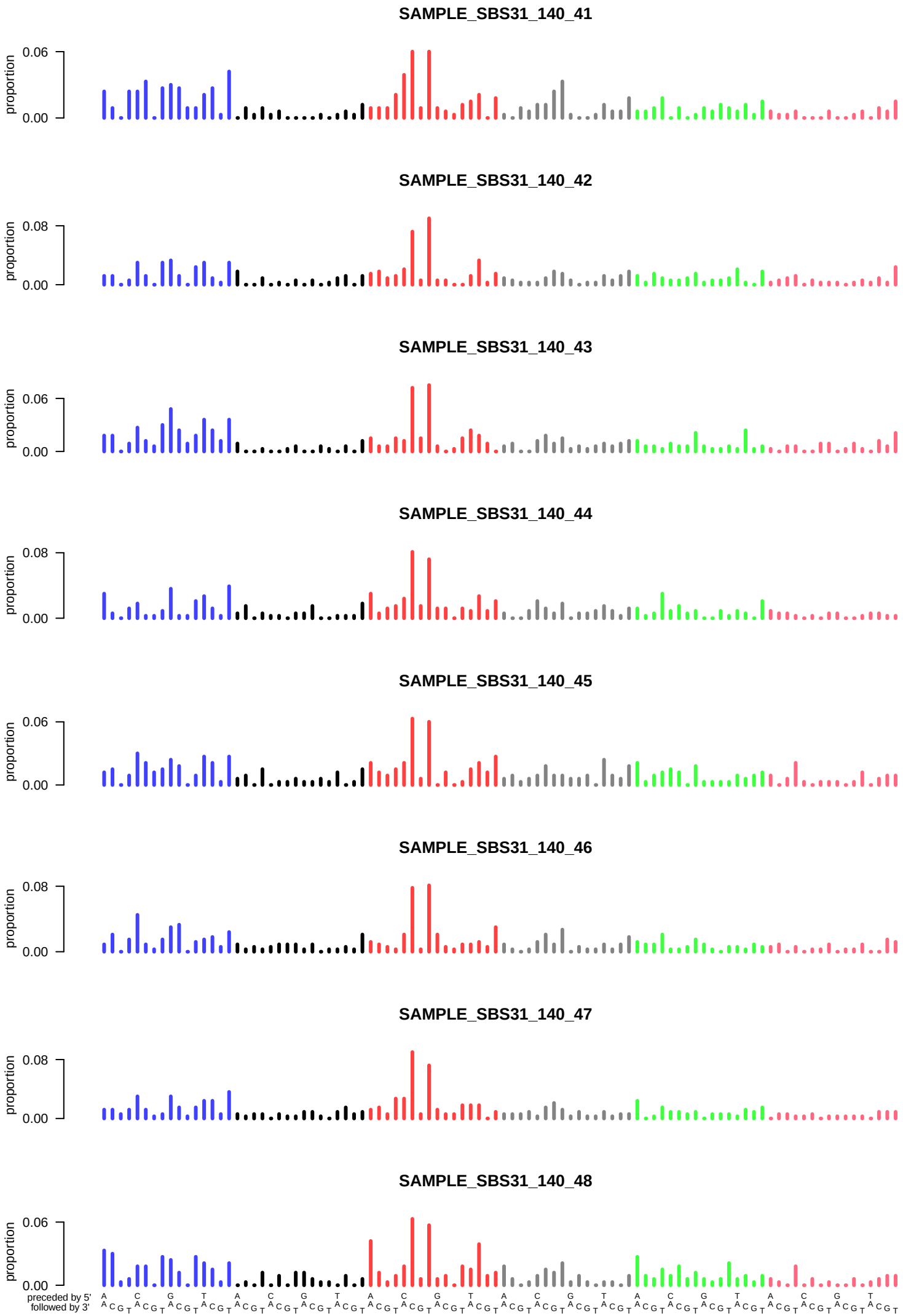
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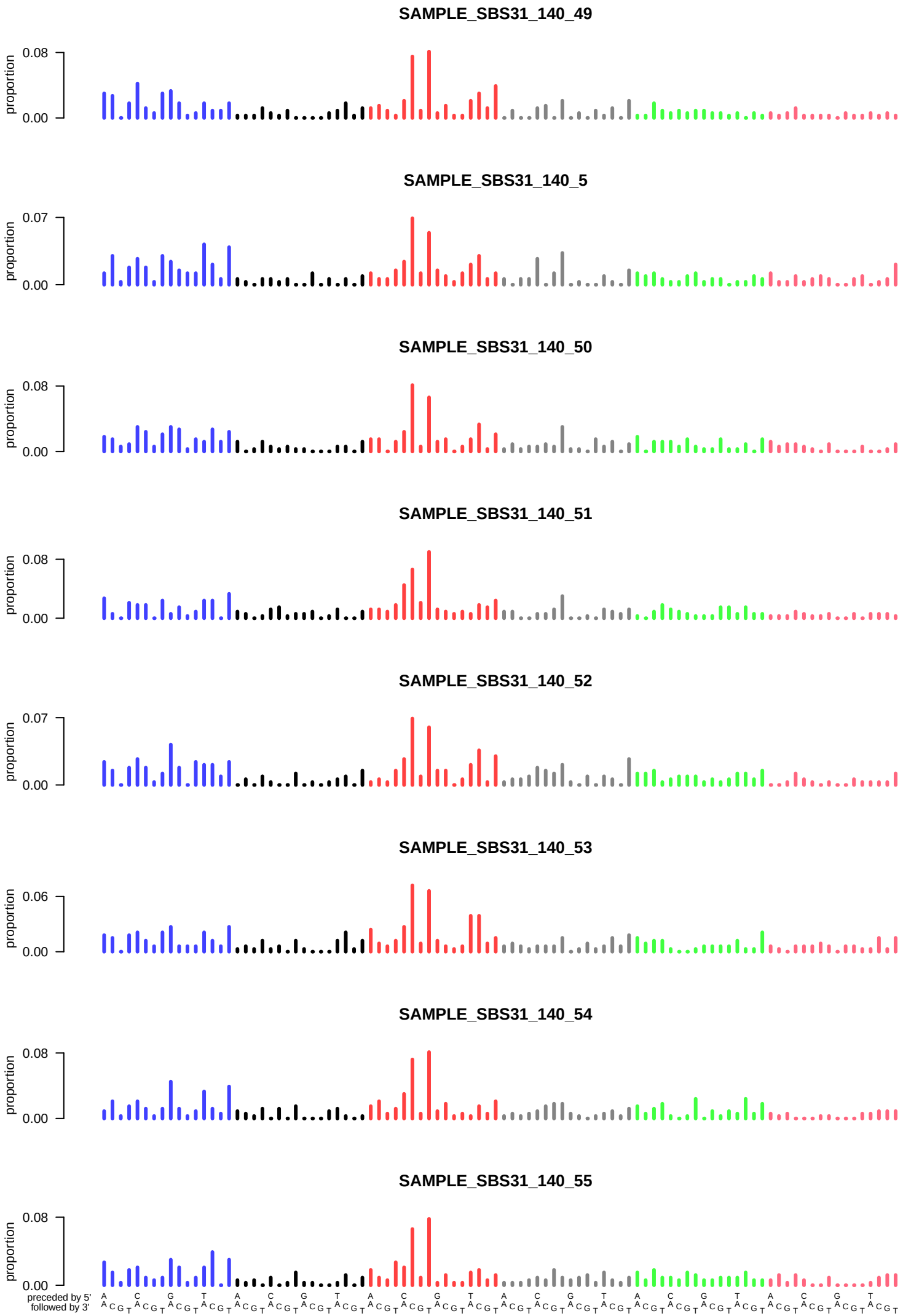
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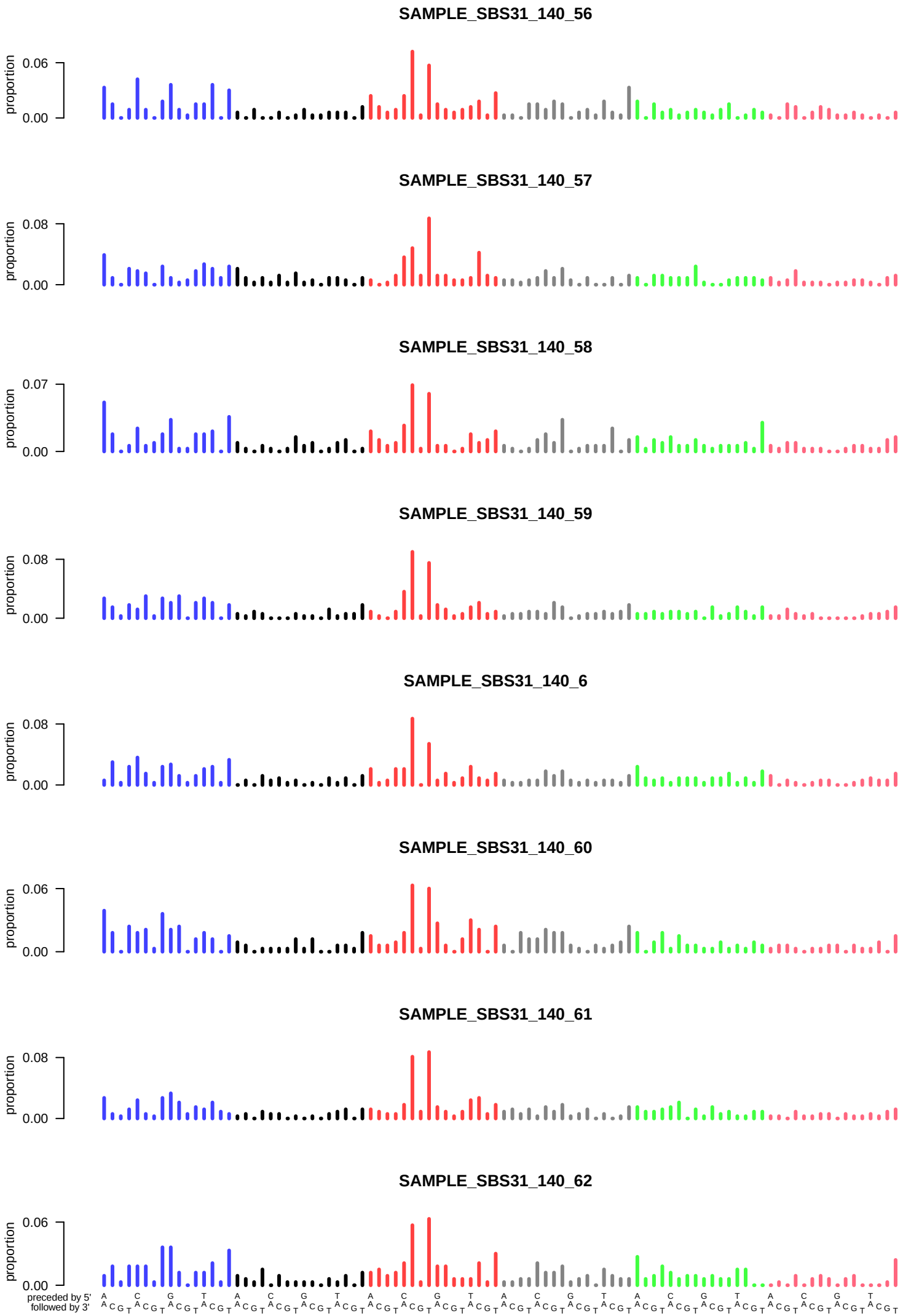
A C G T A C G T A C G T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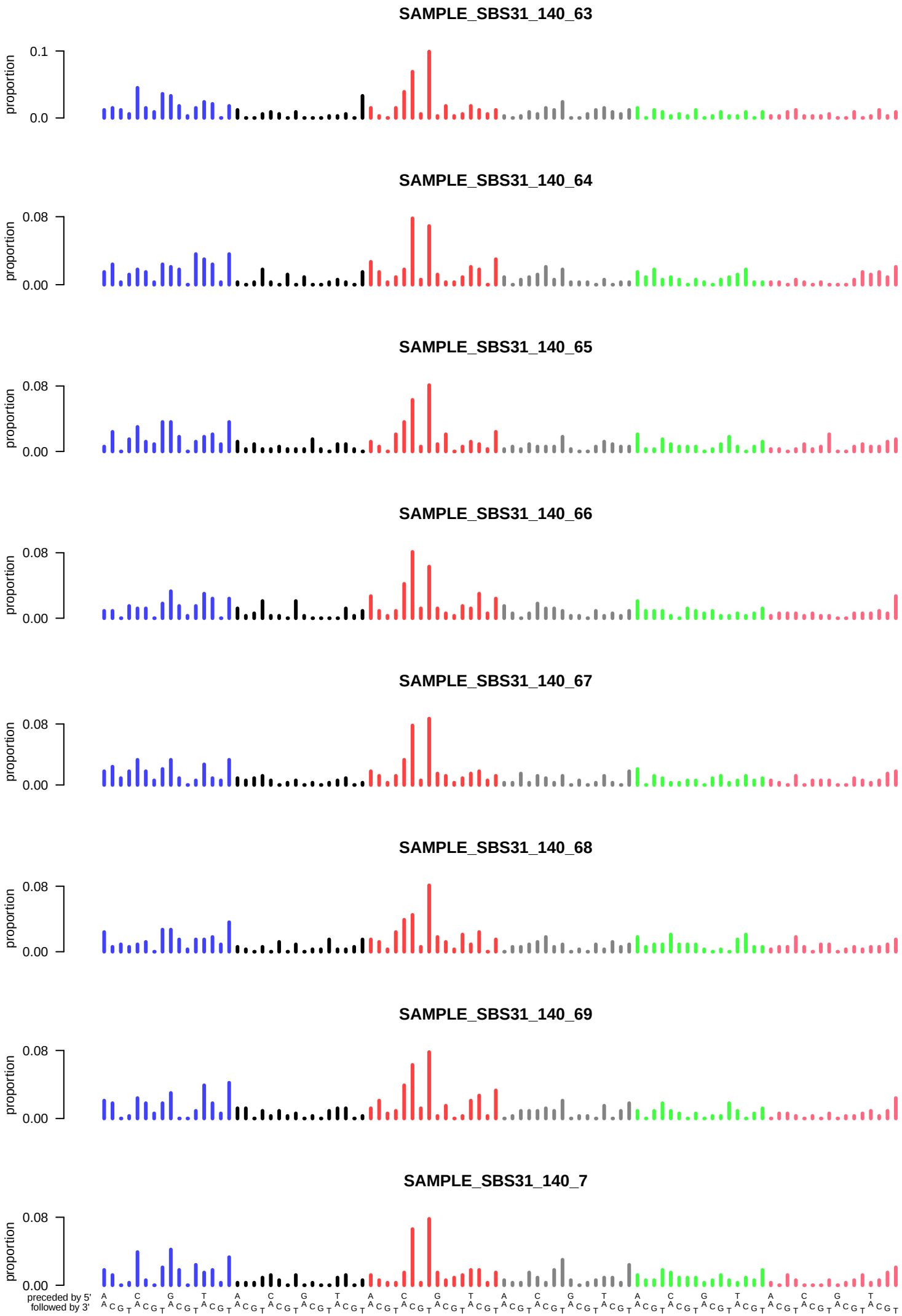
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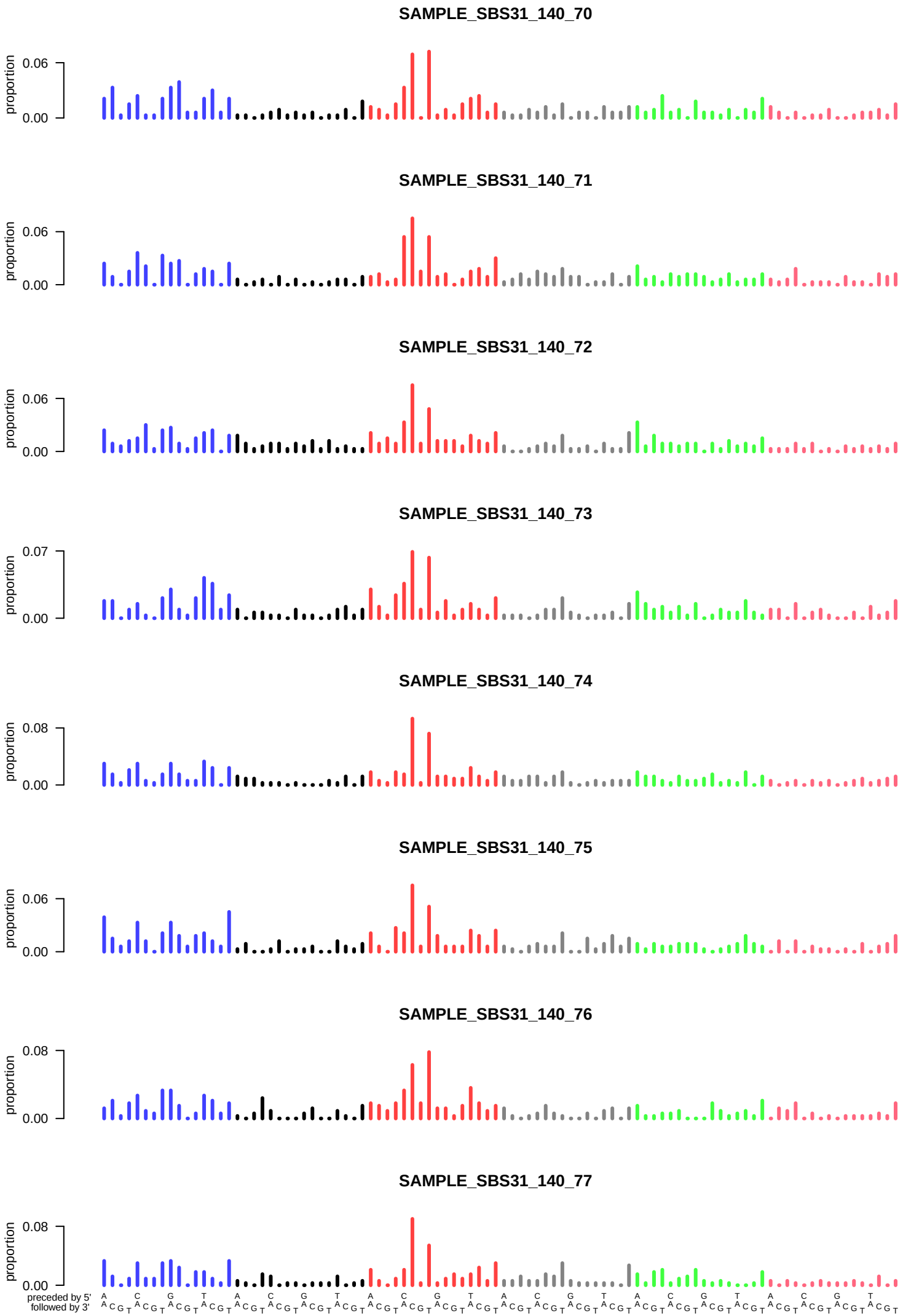
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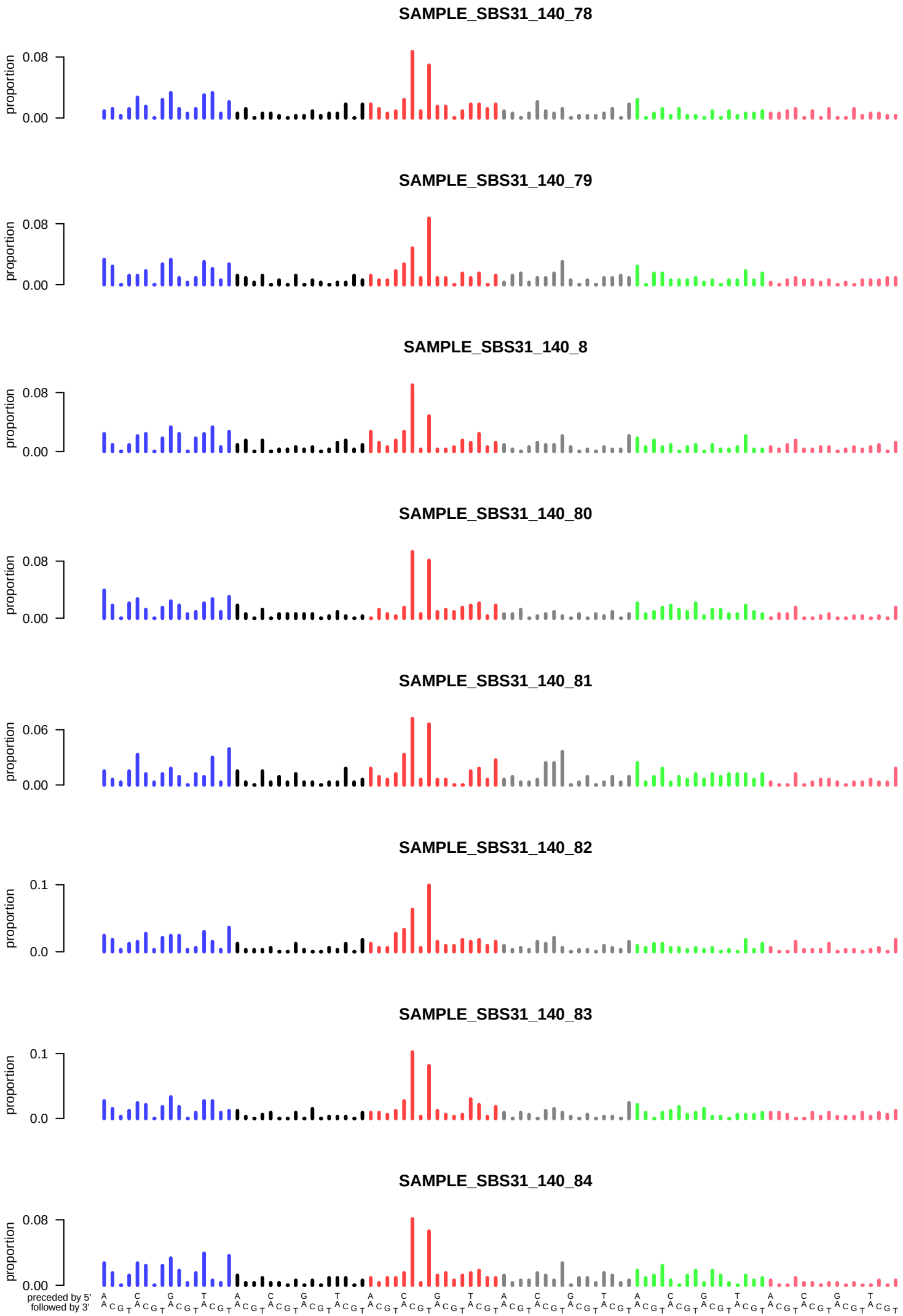
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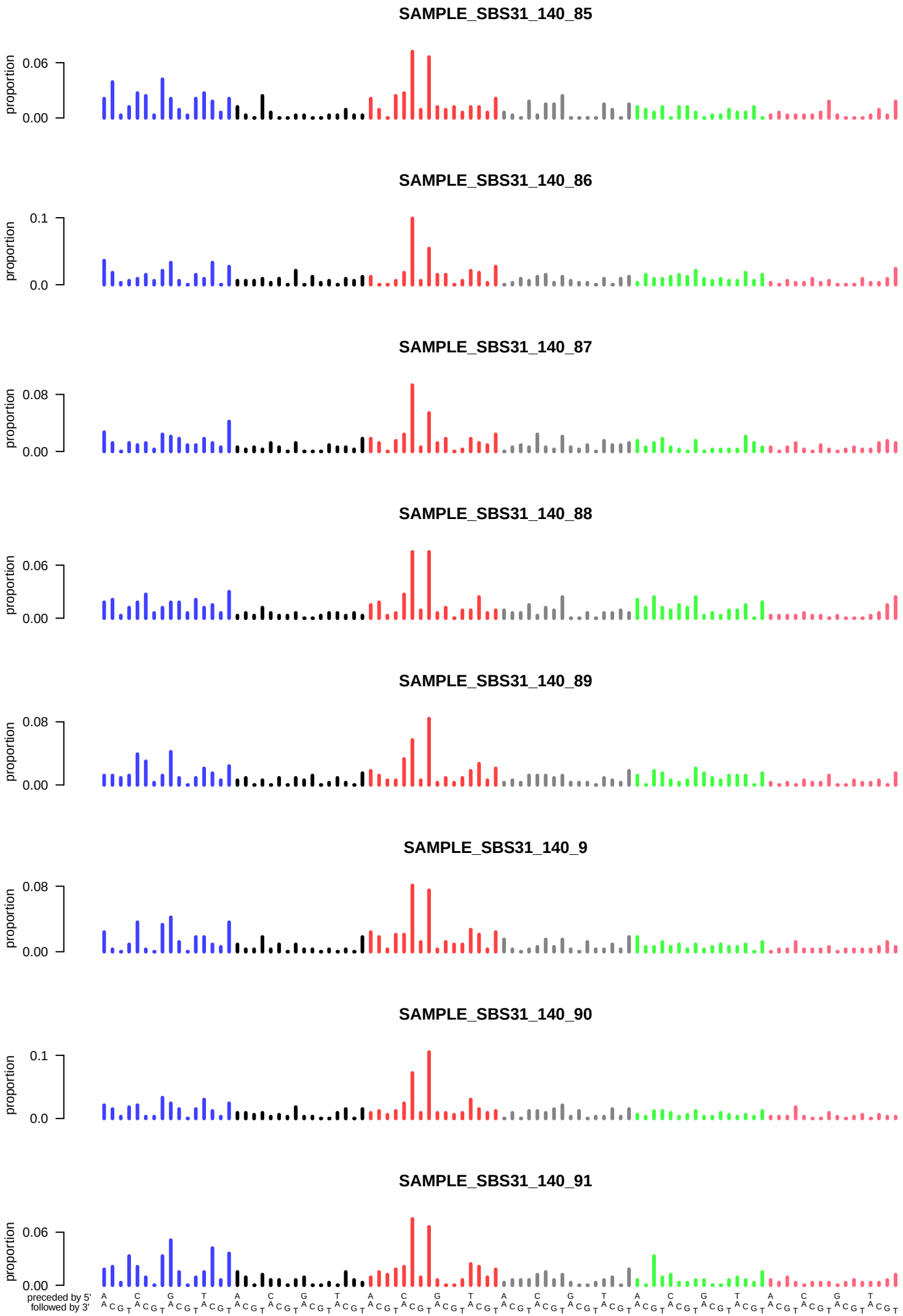
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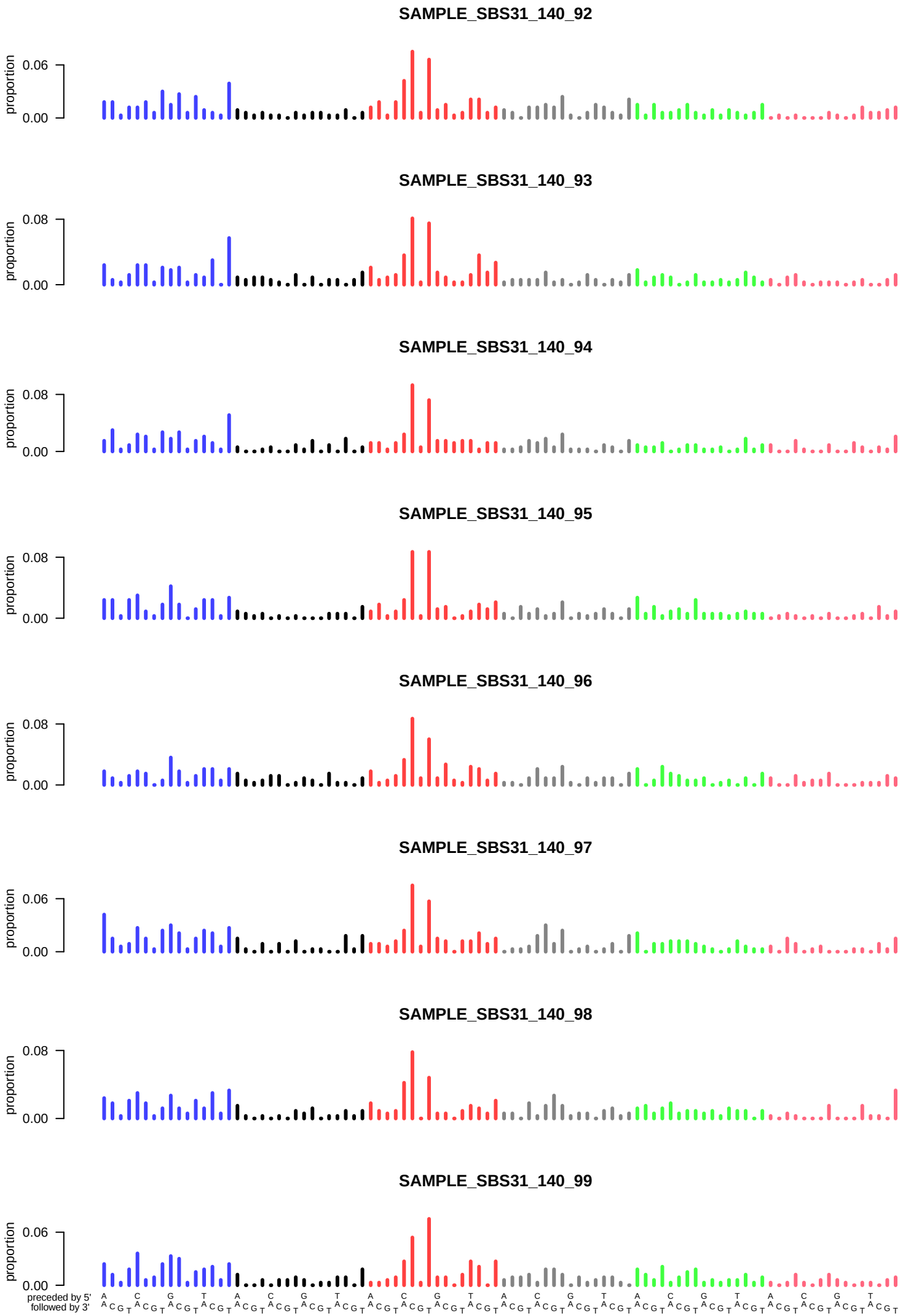
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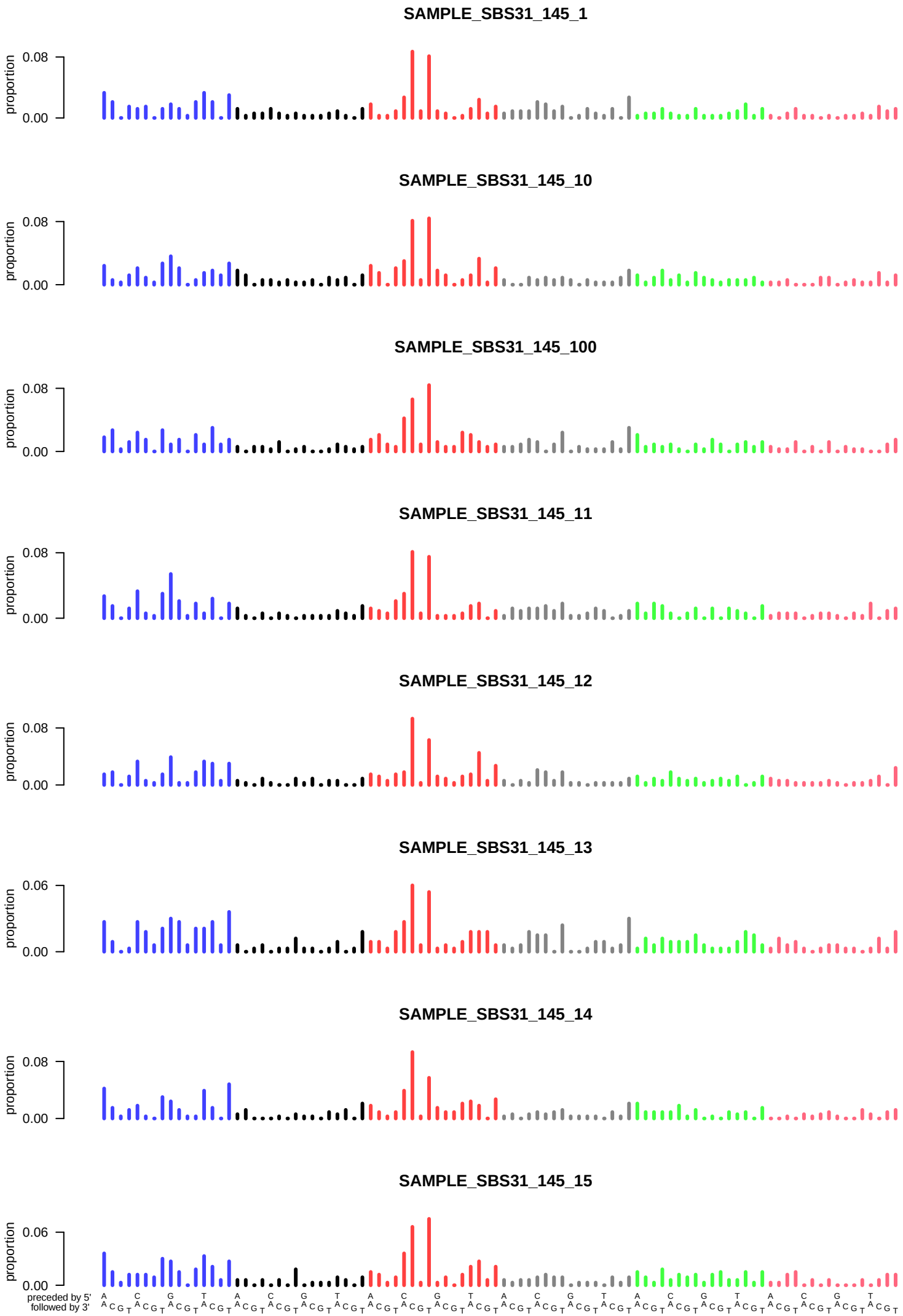
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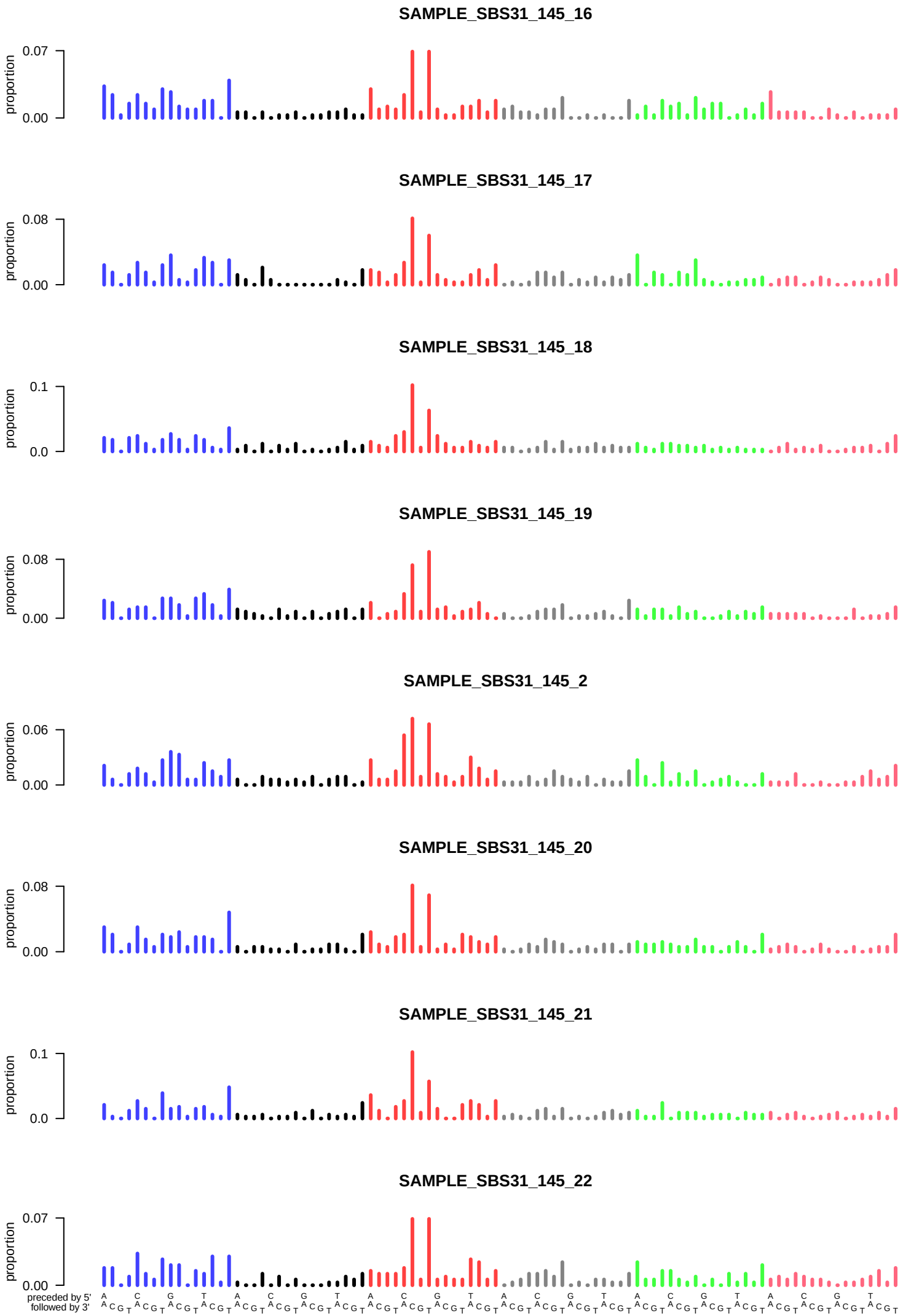
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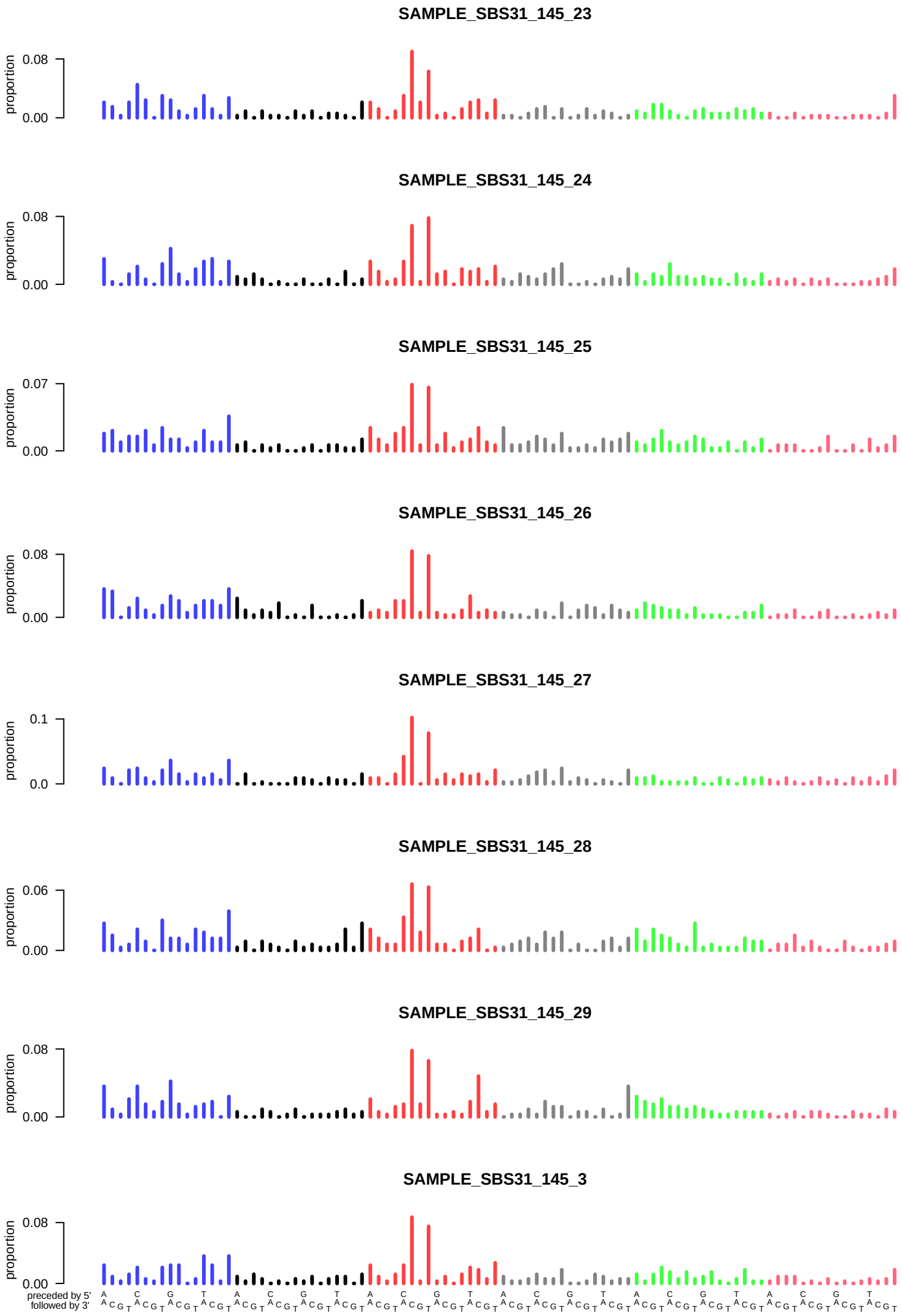
followed by 3'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proportion
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SAMPLE_SBS31_145_29
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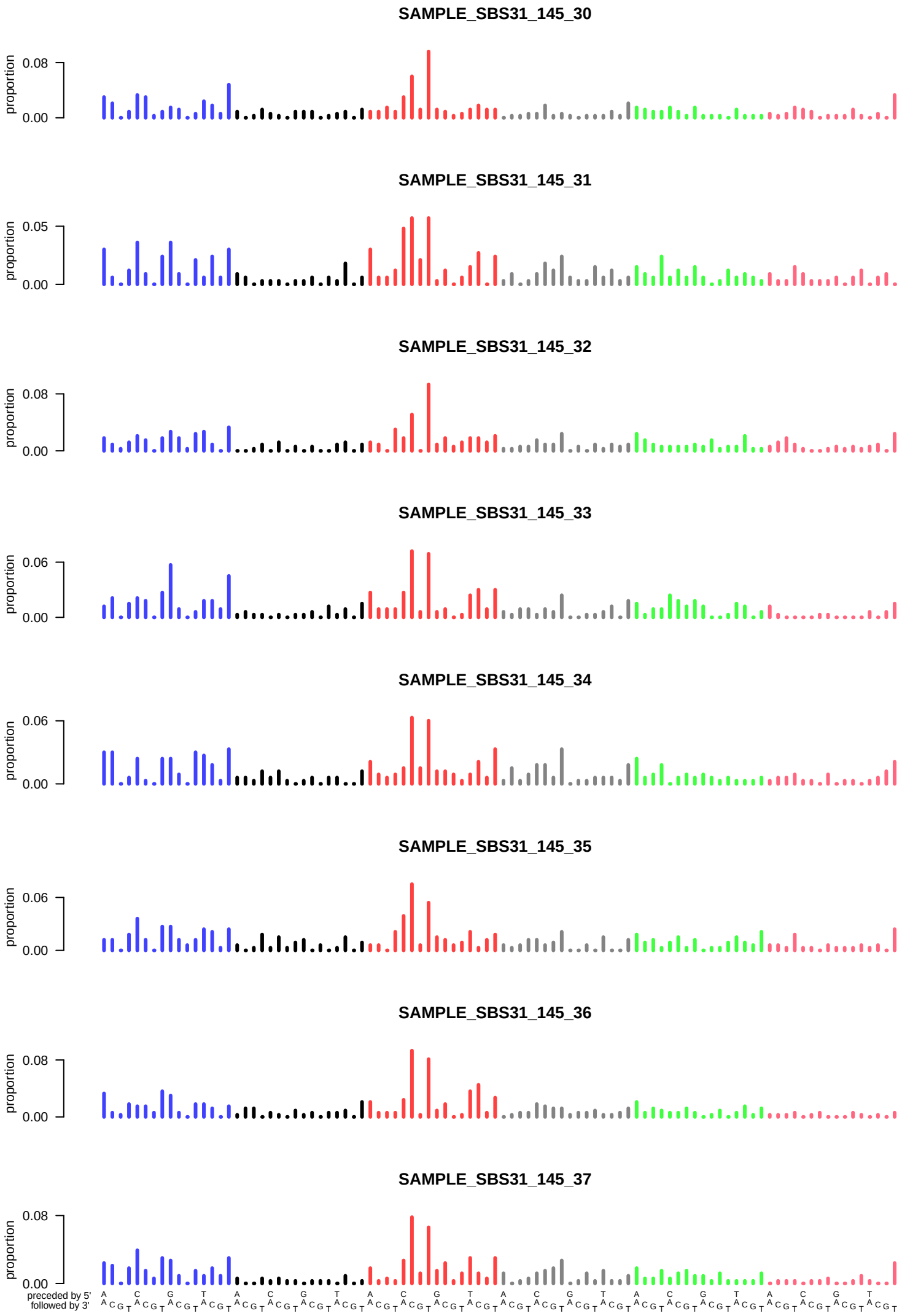
followed by 3'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SAMPLE_SBS31_145_35
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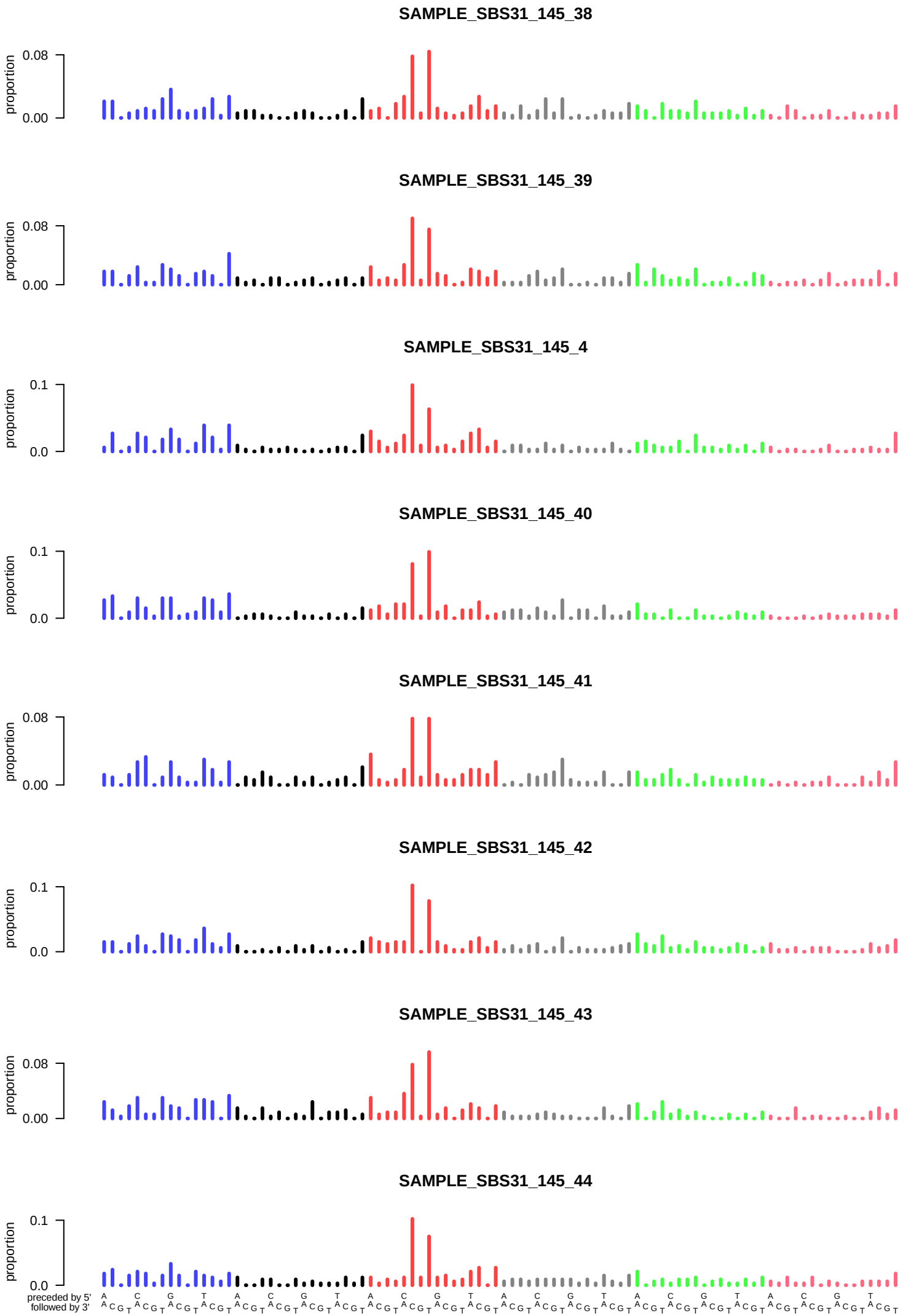
followed by 3'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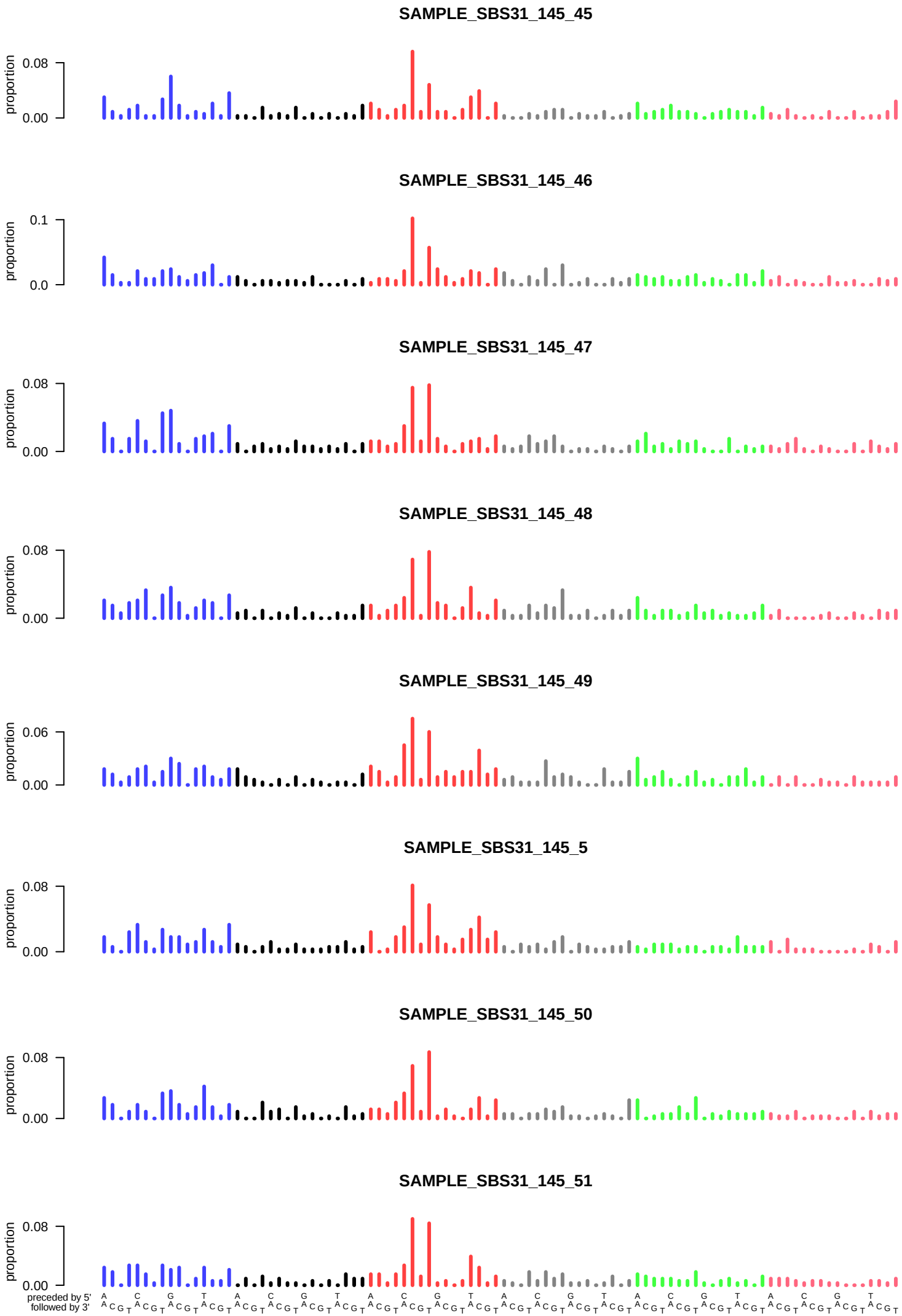
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SAMPLE_SBS31_145_5
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SAMPLE_SBS31_145_50
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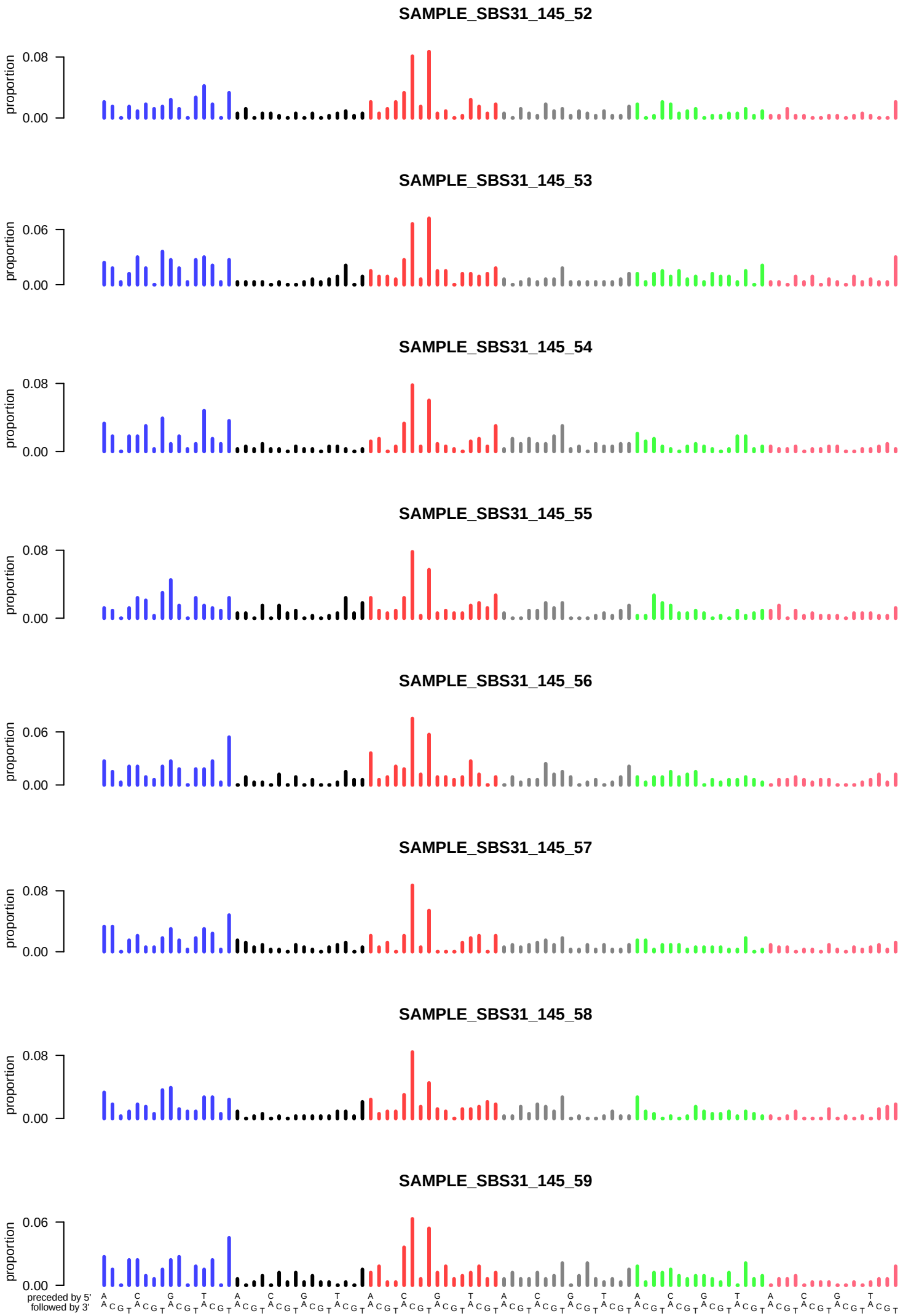
followed by 3'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SAMPLE_SBS31_145_58
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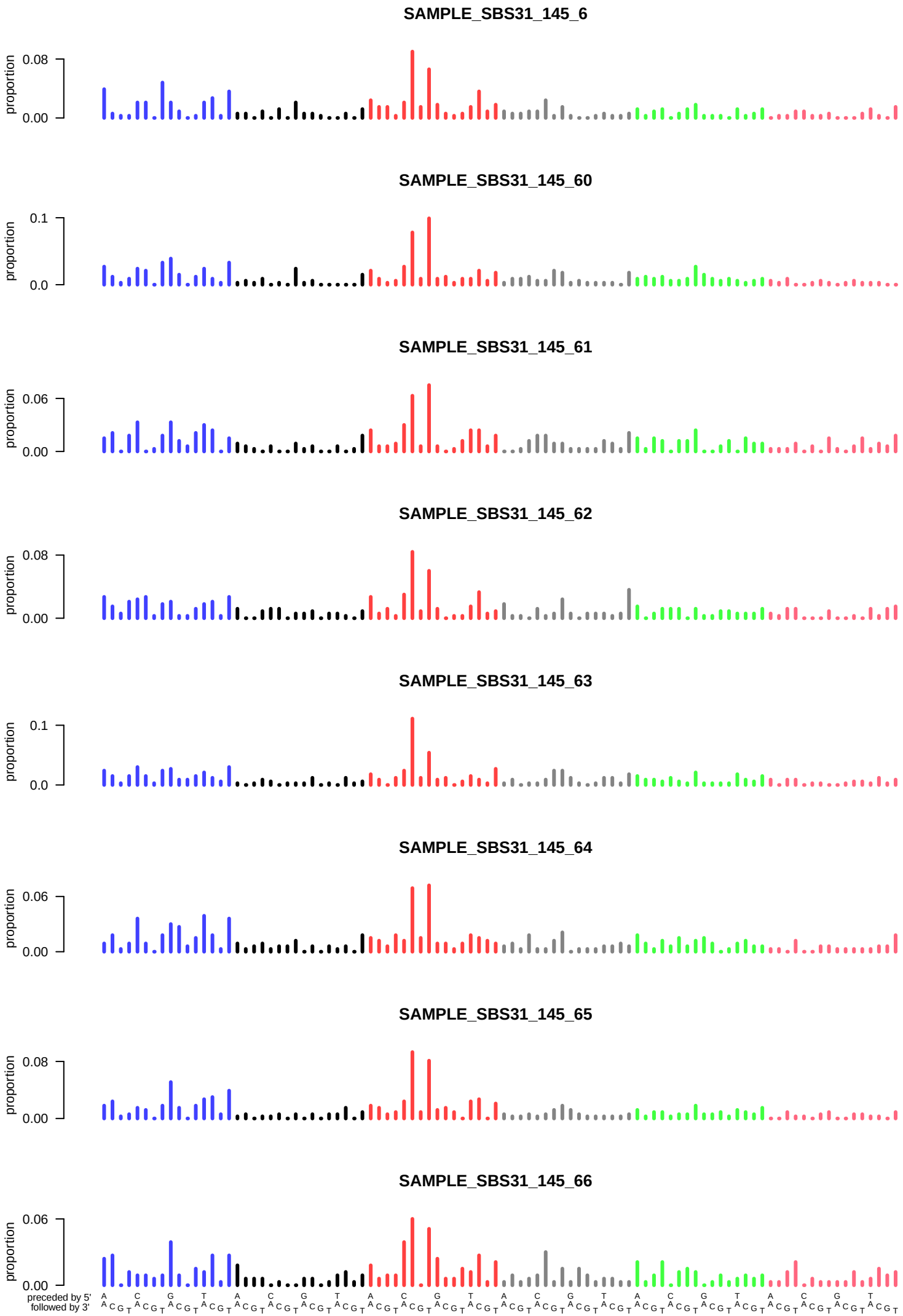
followed by 3'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SAMPLE_SBS31_145_64
proportion
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SAMPLE_SBS31_145_65
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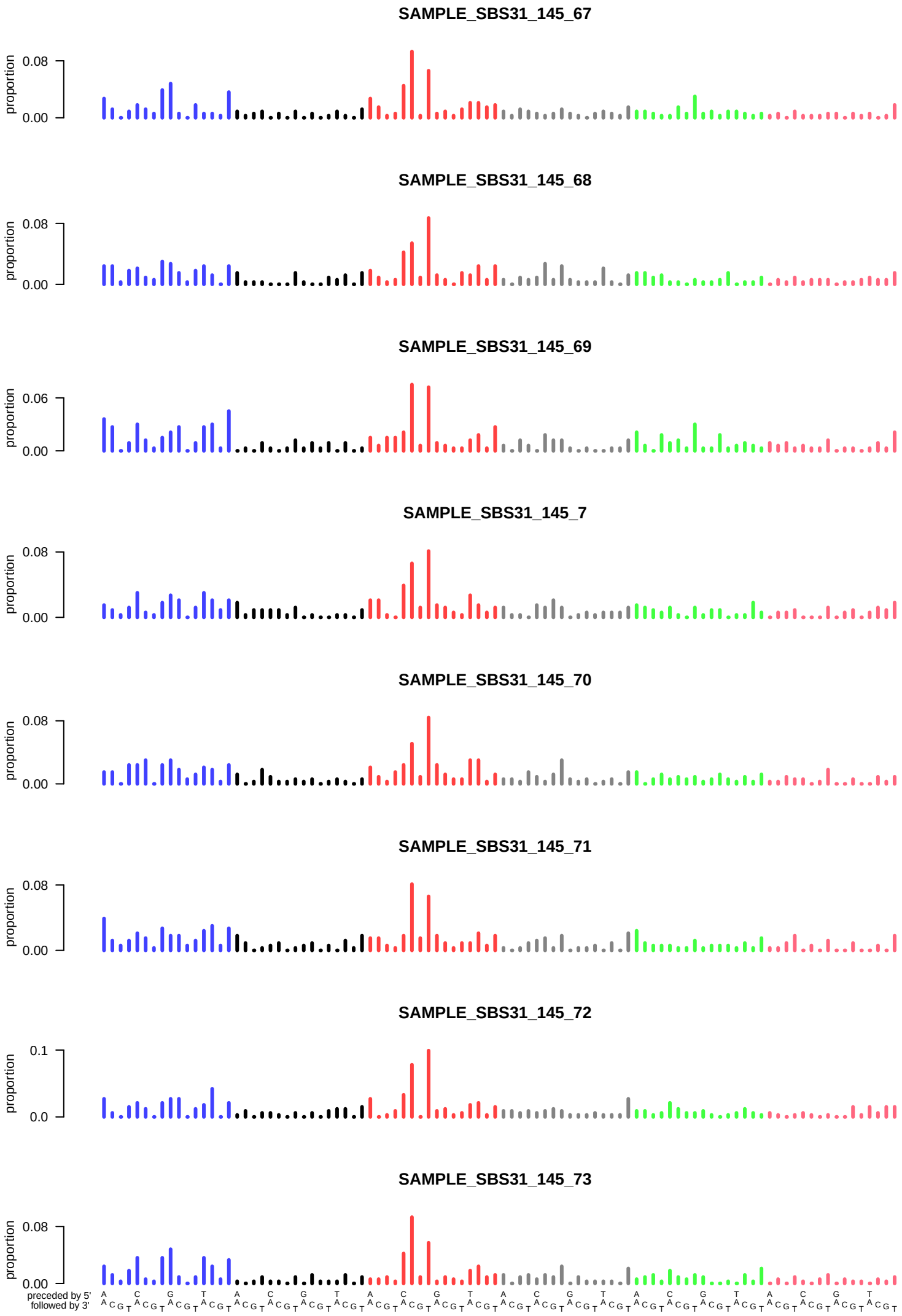
followed by 3'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SAMPLE_SBS31_145_71
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SAMPLE_SBS31_145_72
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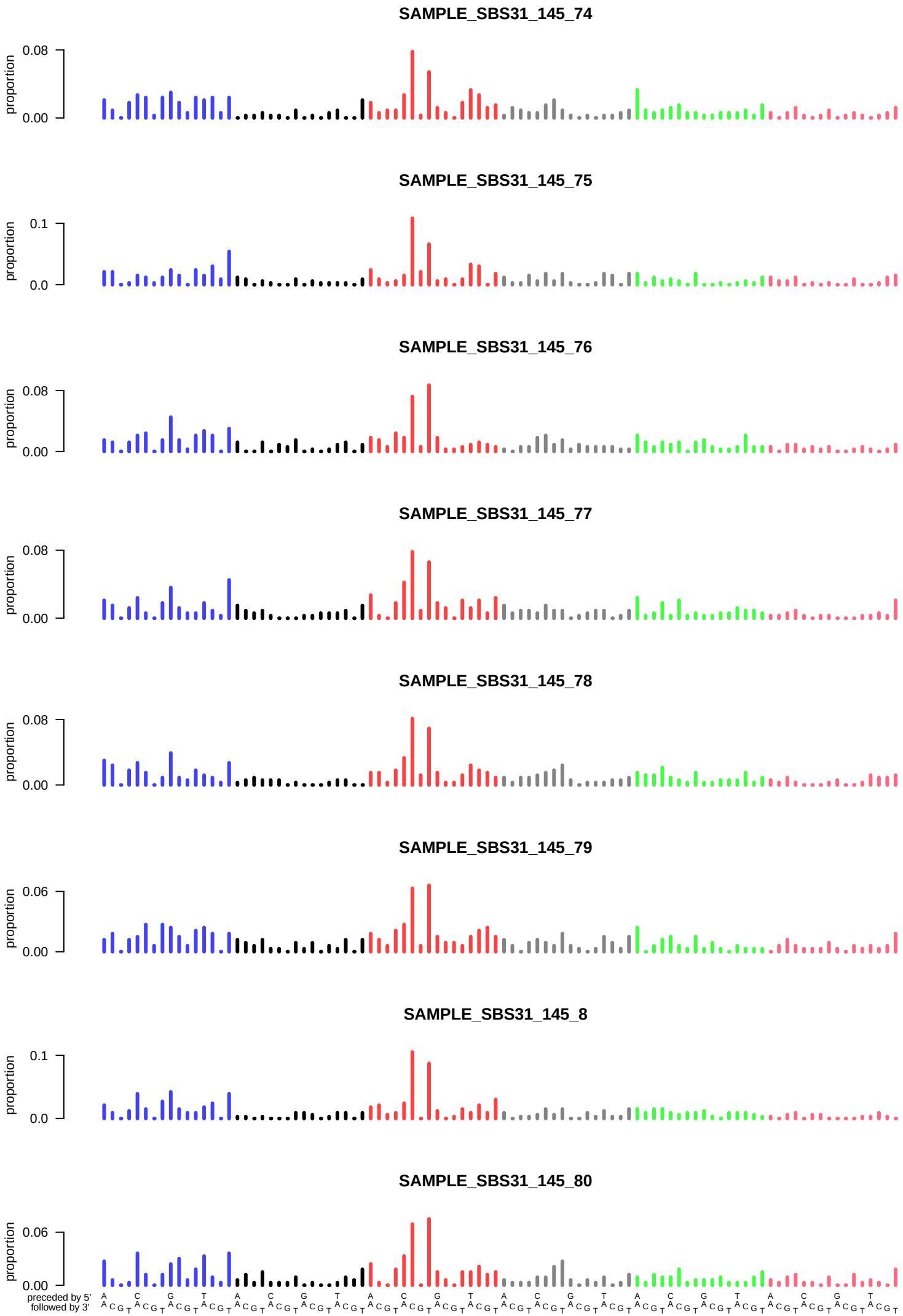
followed by 3'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SAMPLE_SBS31_145_78
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SAMPLE_SBS31_145_79
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SAMPLE_SBS31_145_8
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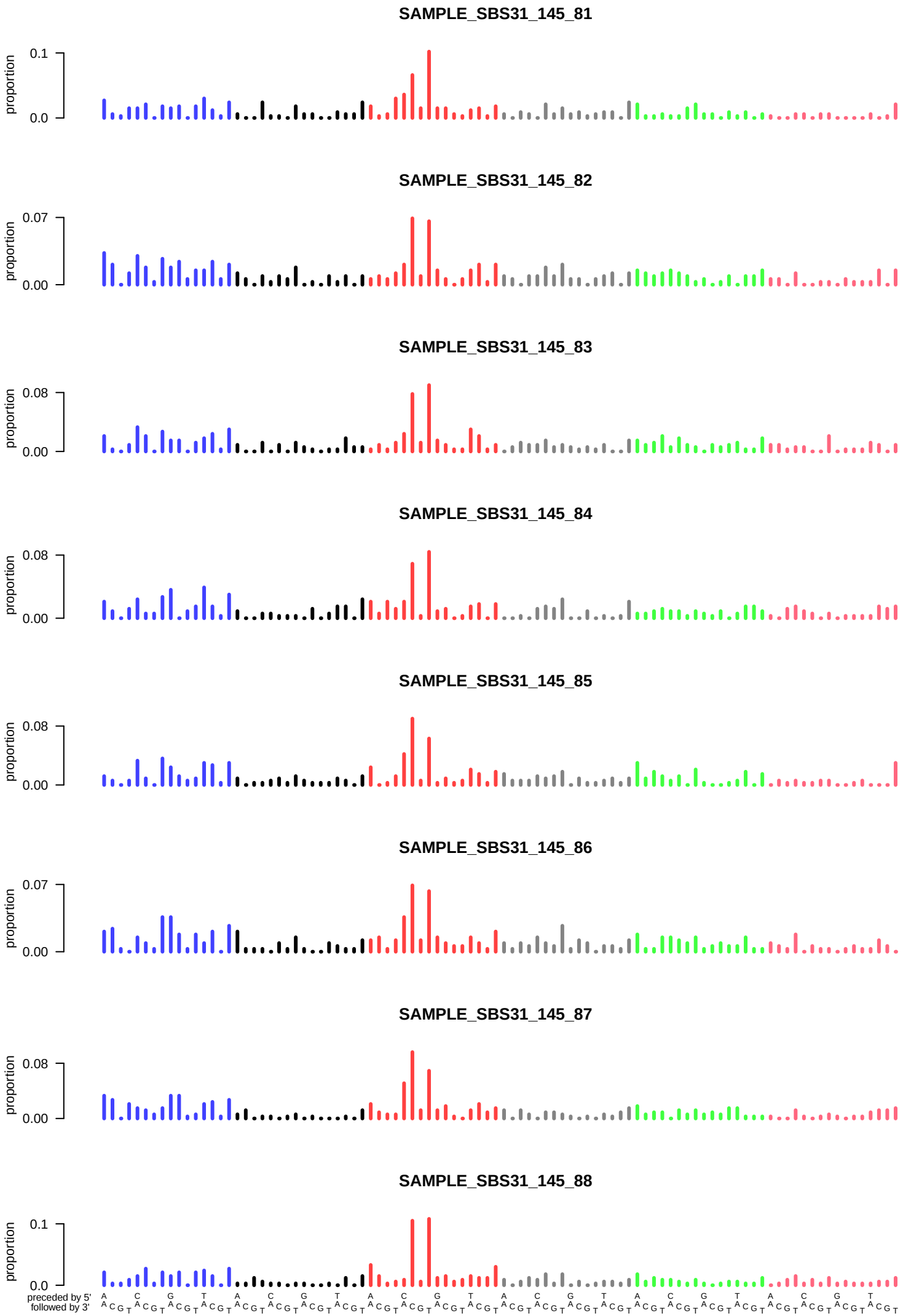
followed by 3'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SAMPLE_SBS31_145_84
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SAMPLE_SBS31_145_86
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SAMPLE_SBS31_145_87
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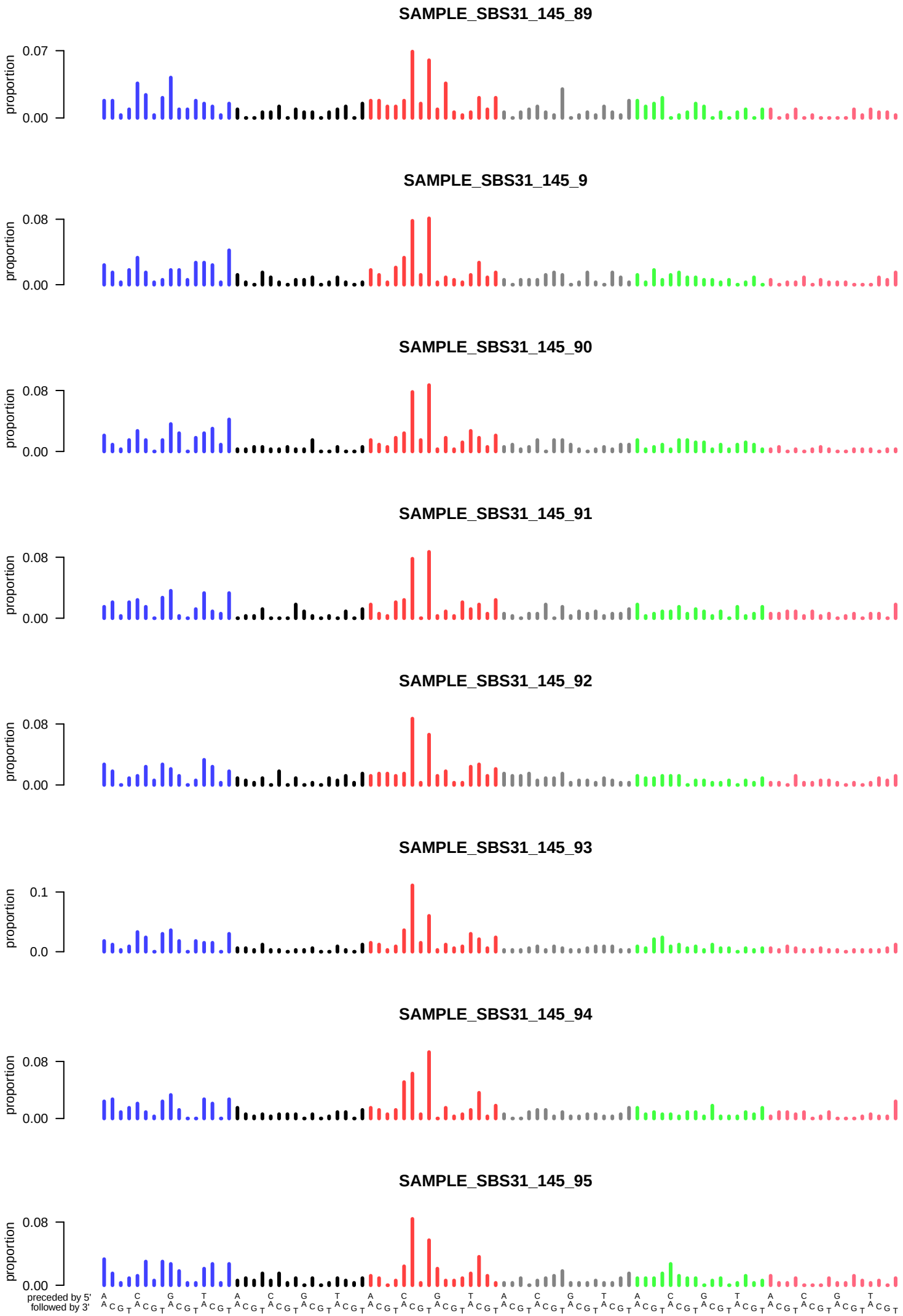
preceded by 5'
followed by 3'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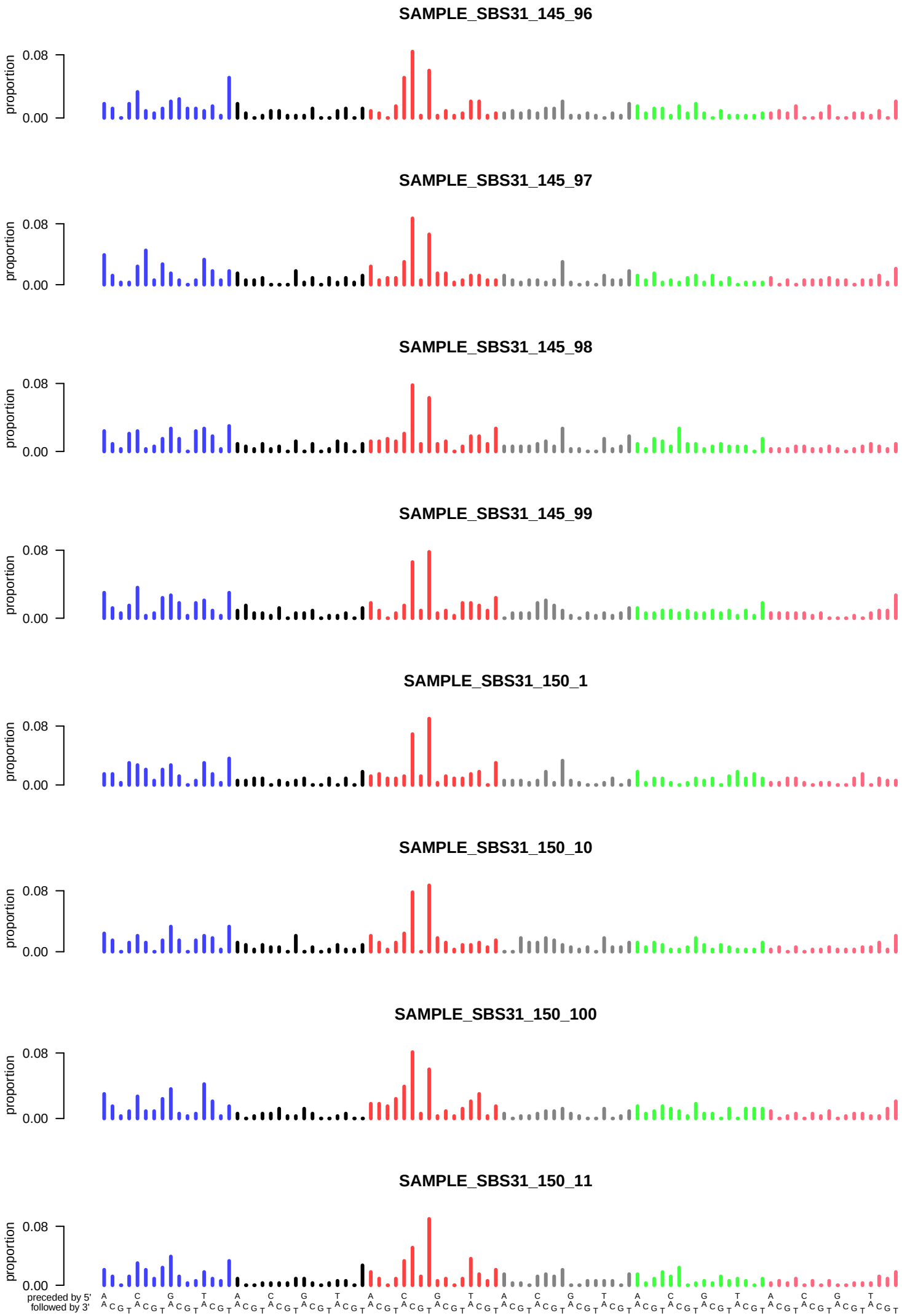
followed by 3'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SAMPLE_SBS31_150_10
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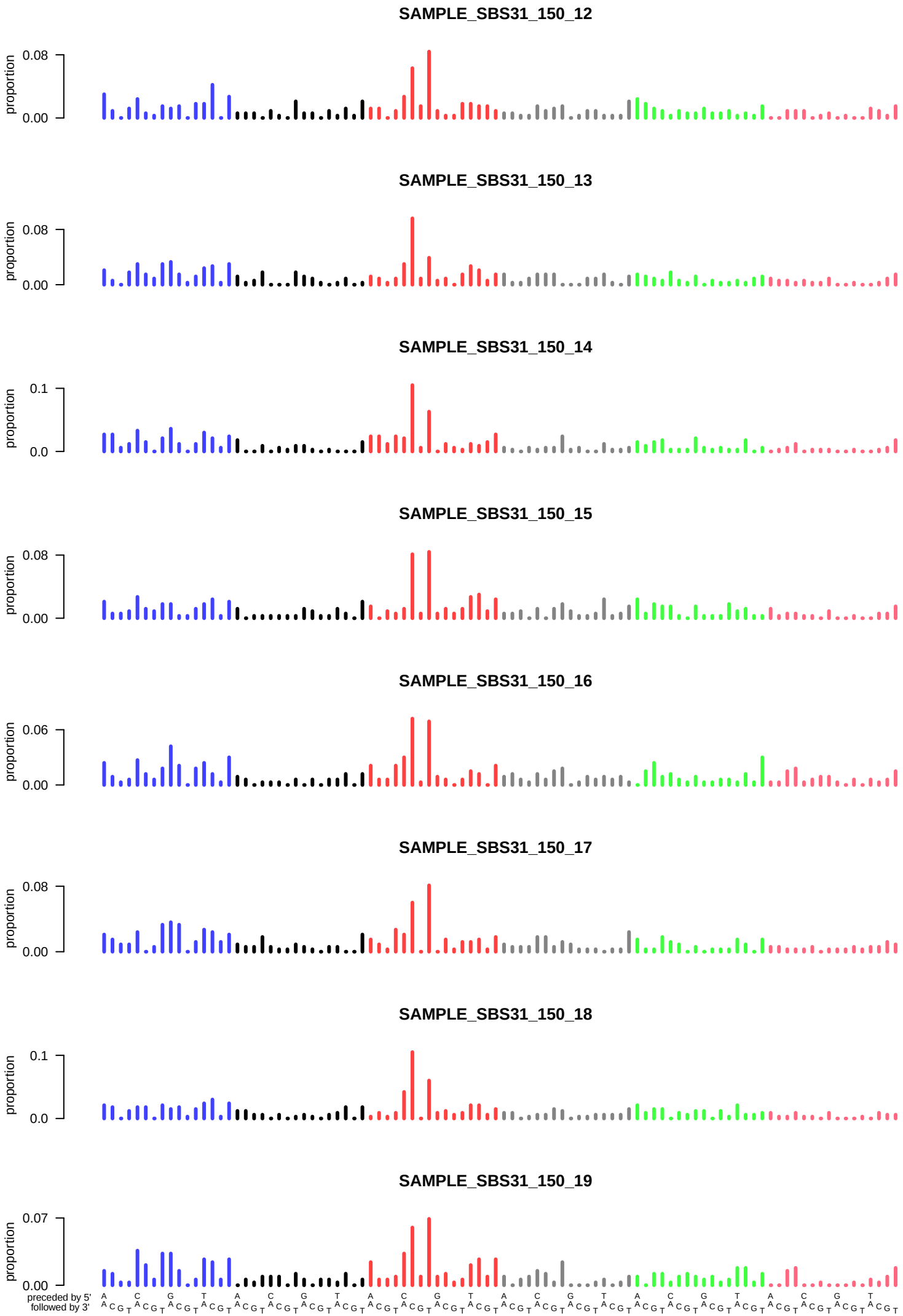
followed by 3'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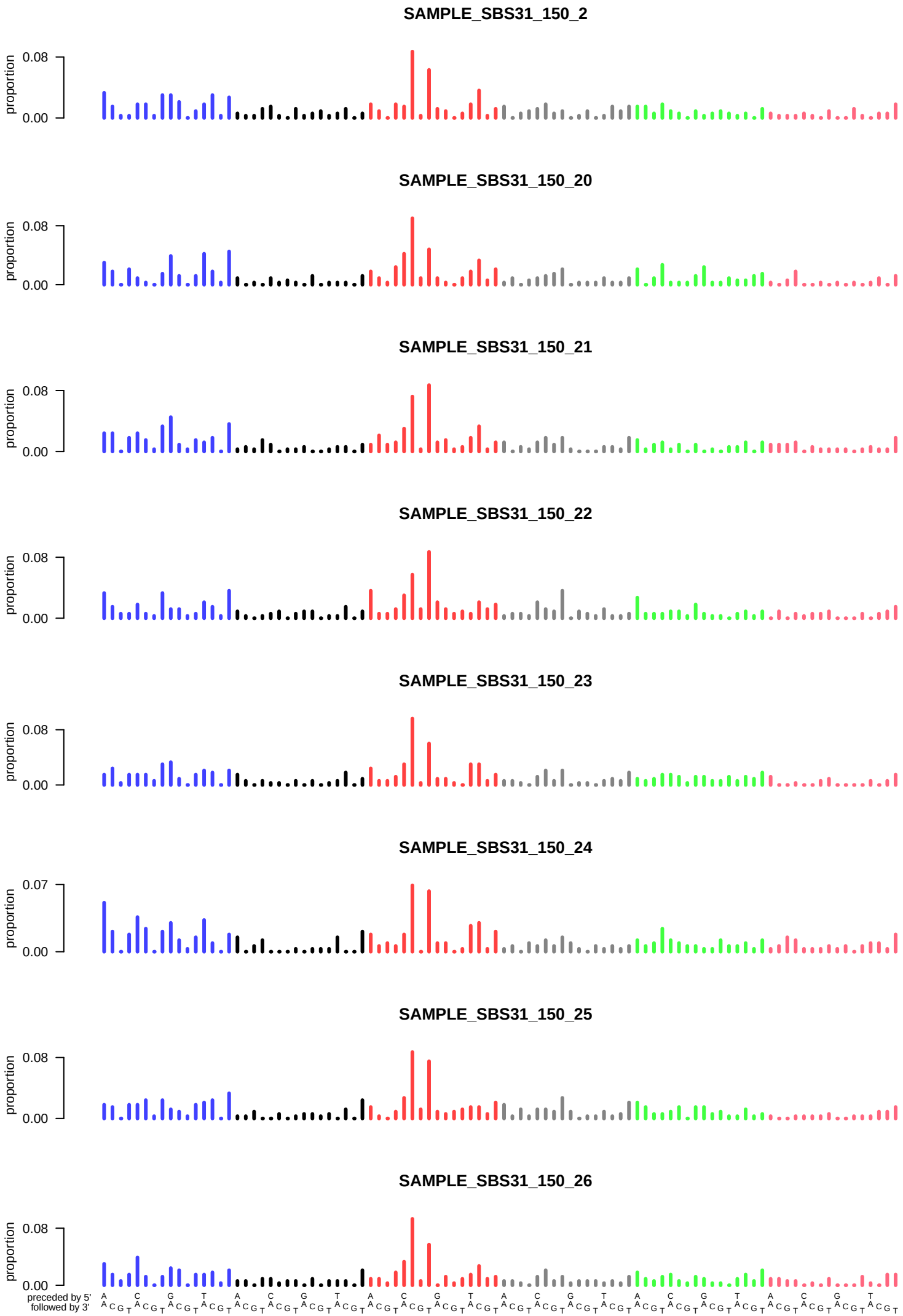
followed by 3'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SAMPLE_SBS31_150_23
SAMPLE_SBS31_150_24
SAMPLE_SBS31_150_25
SAMPLE_SBS31_150_26
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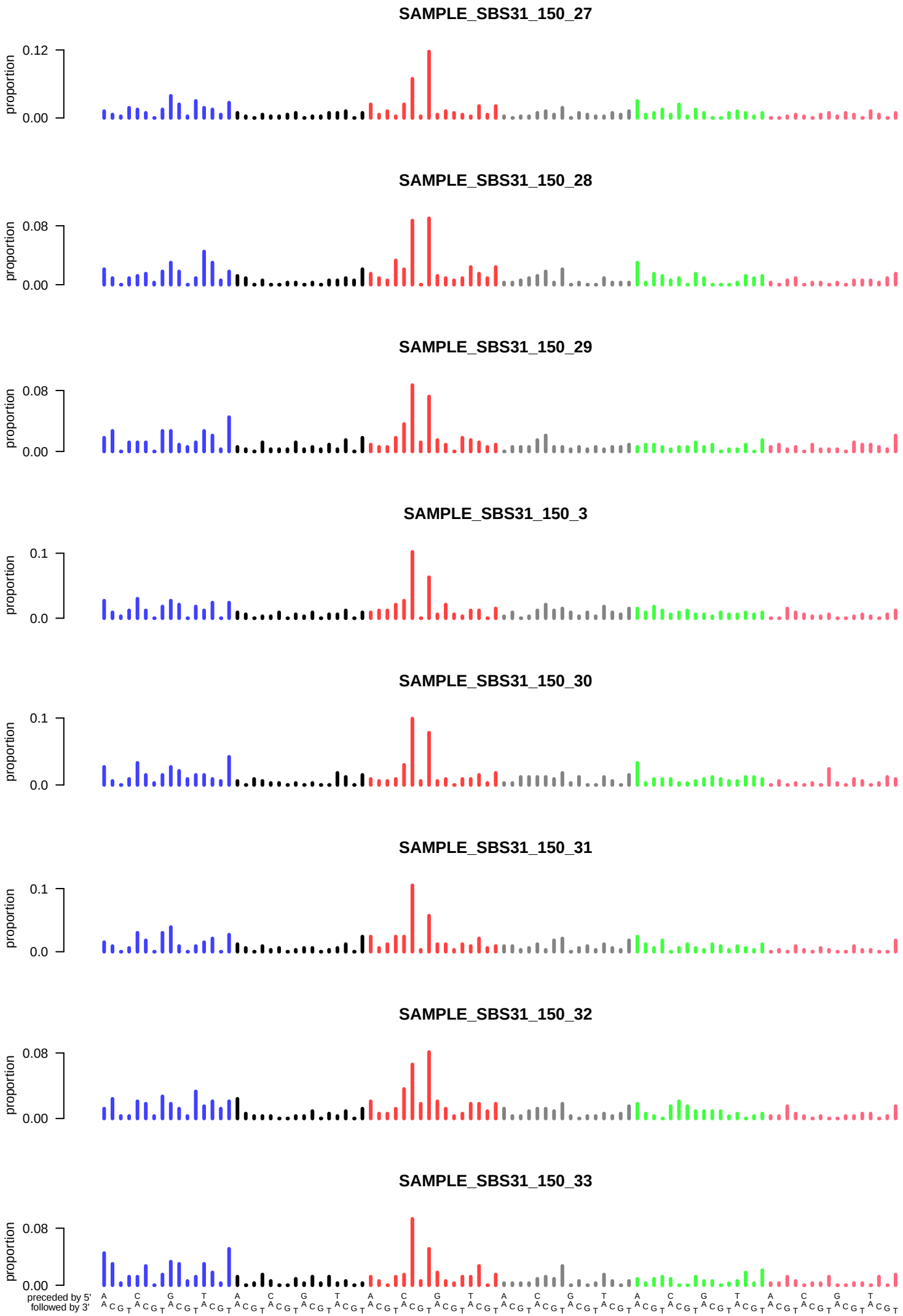
followed by 3'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SAMPLE_SBS31_150_3
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SAMPLE_SBS31_150_30
proportion
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SAMPLE_SBS31_150_31
proportion
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SAMPLE_SBS31_150_32
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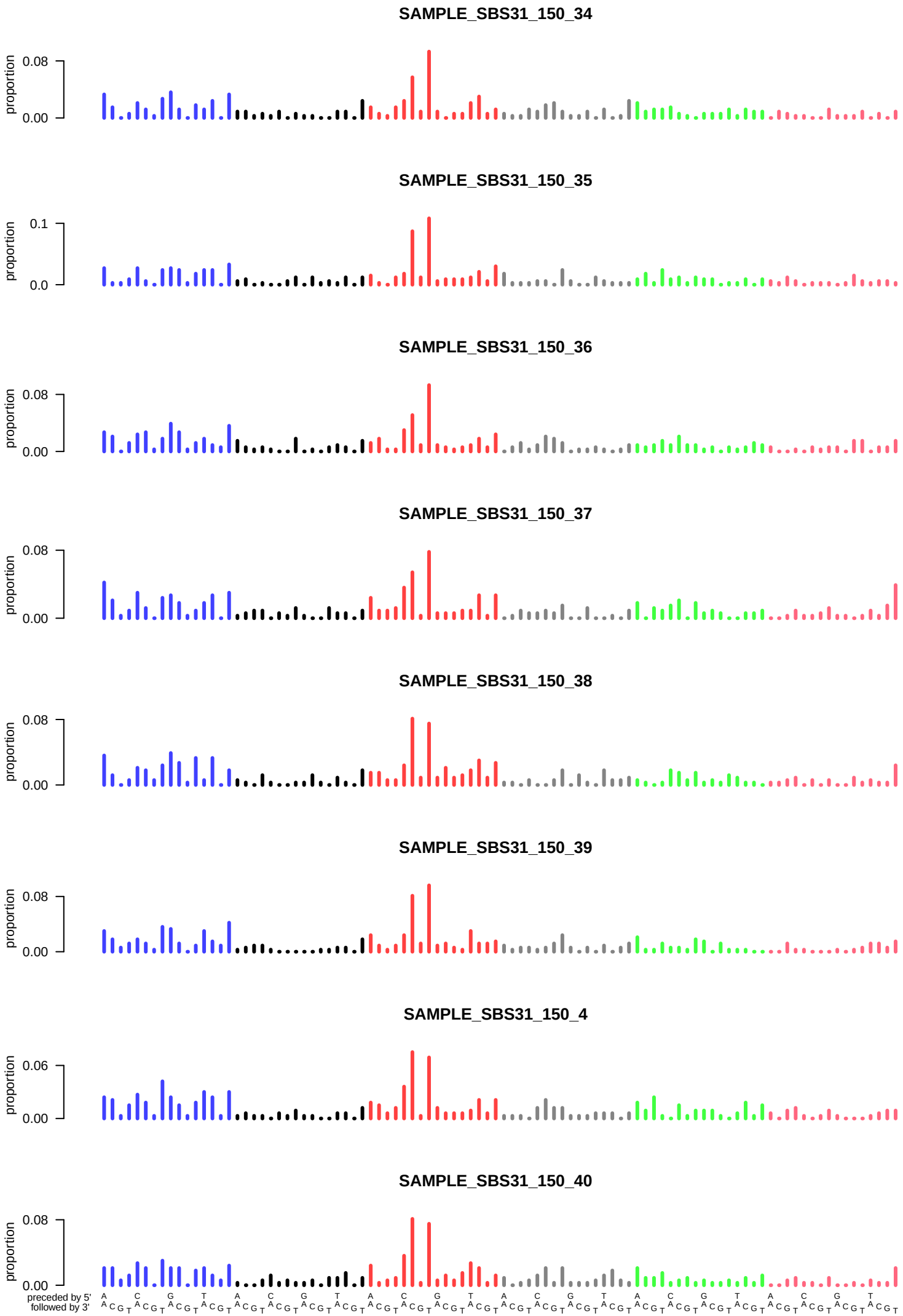
followed by 3'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SAMPLE_SBS31_150_37
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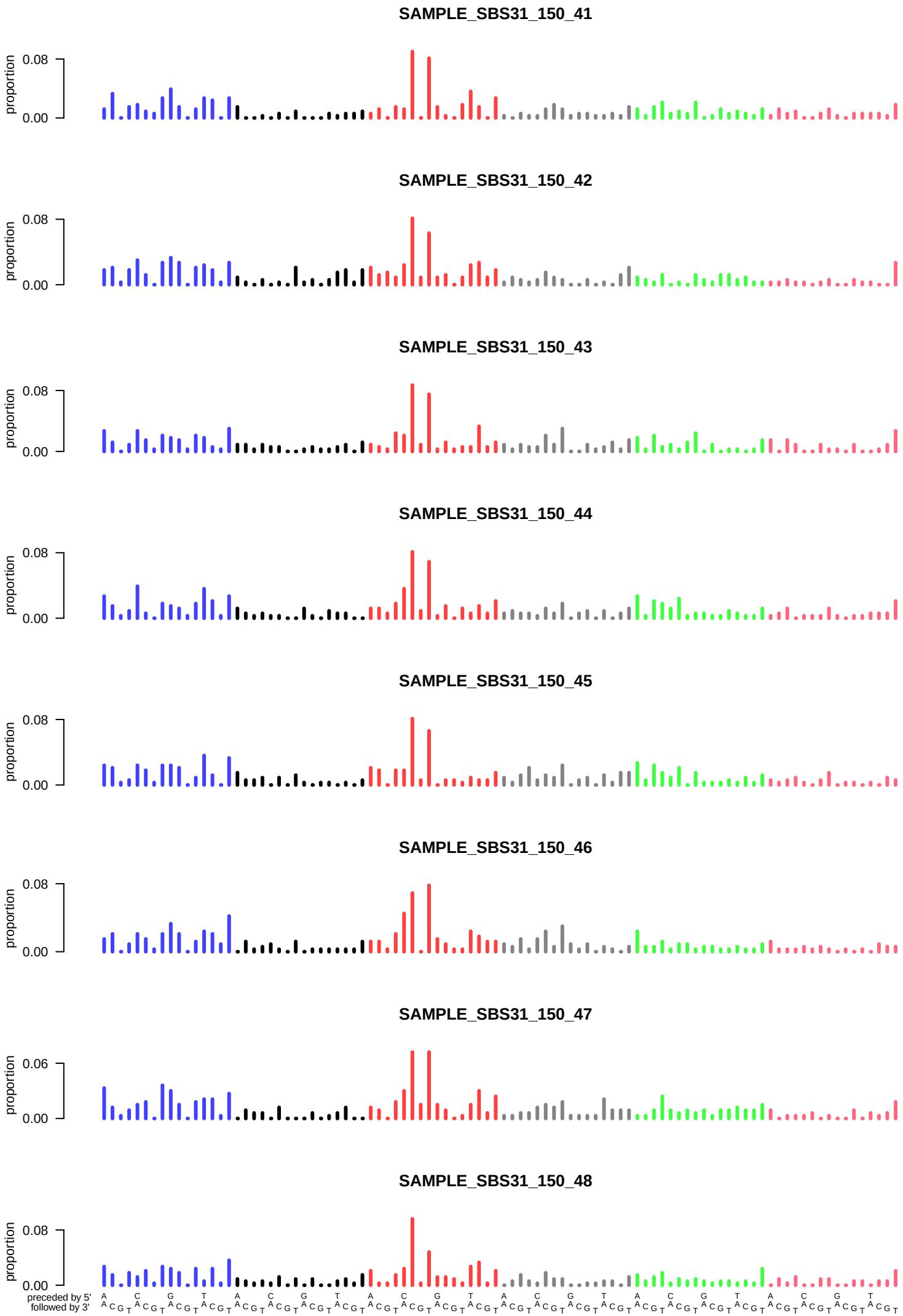
followed by 3'
A C G T A C G T A C G T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SAMPLE_SBS31_150_45
SAMPLE_SBS31_150_46
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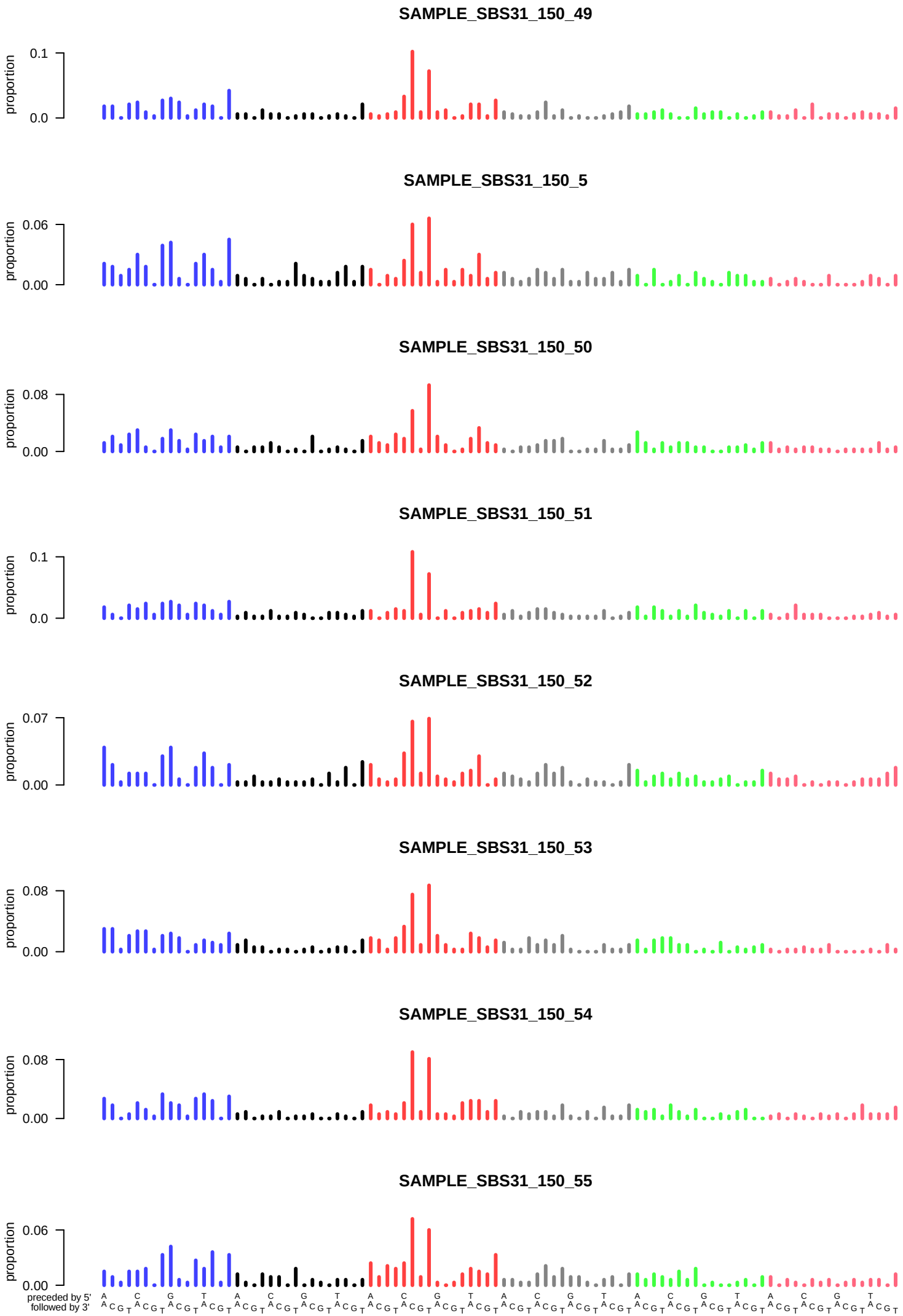
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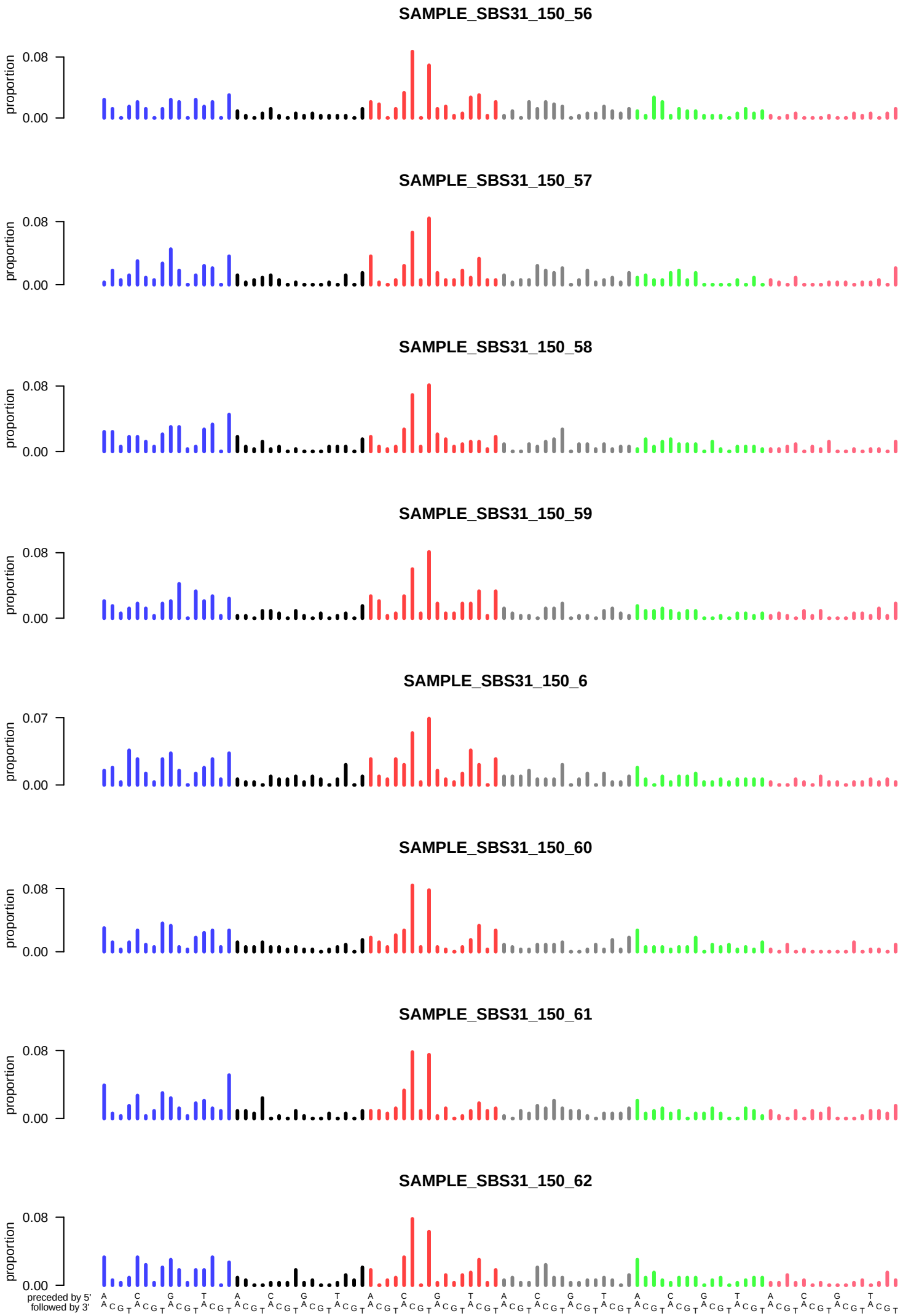
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SAMPLE_SBS31_150_60
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0.07
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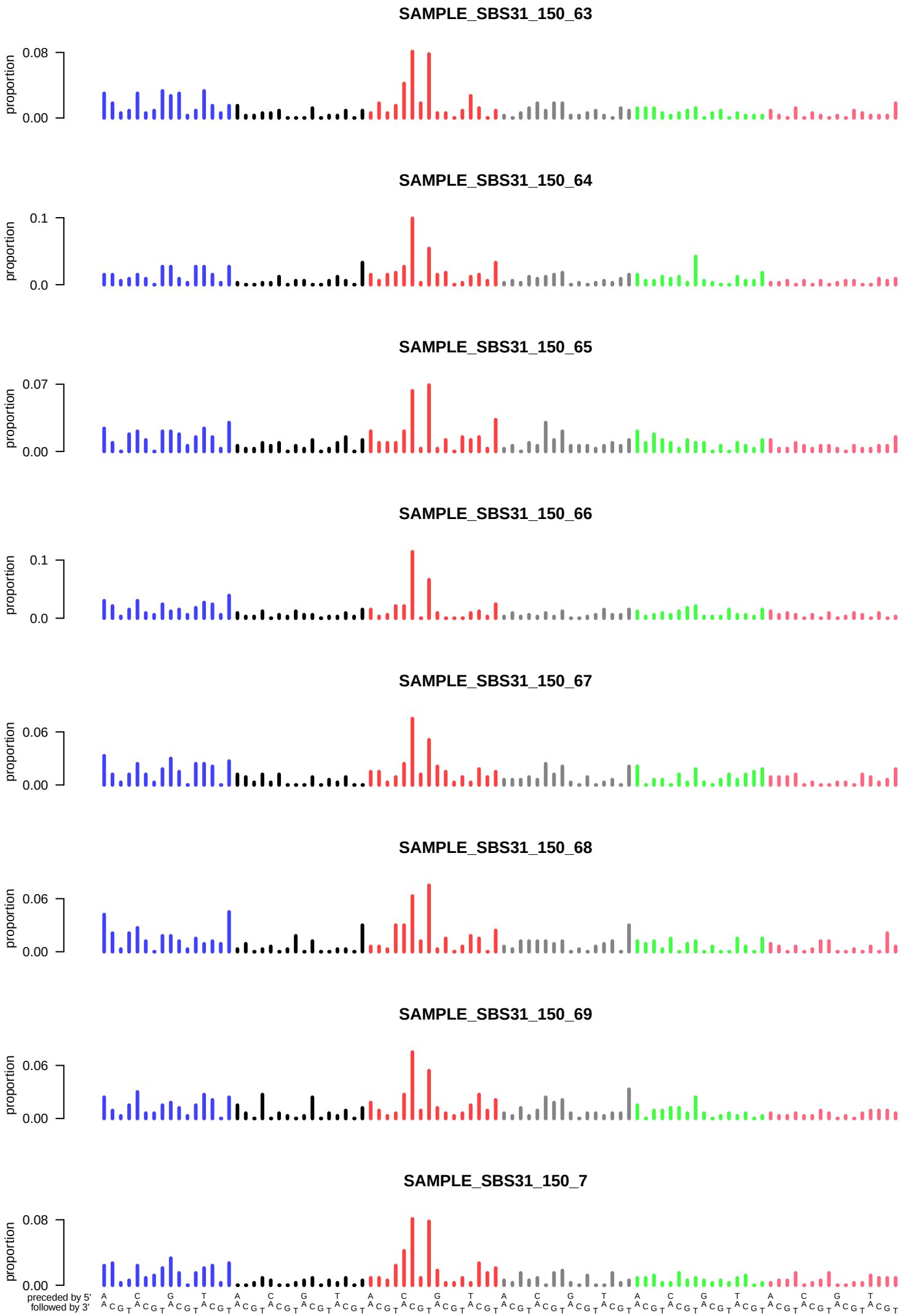
followed by 3'
A C G T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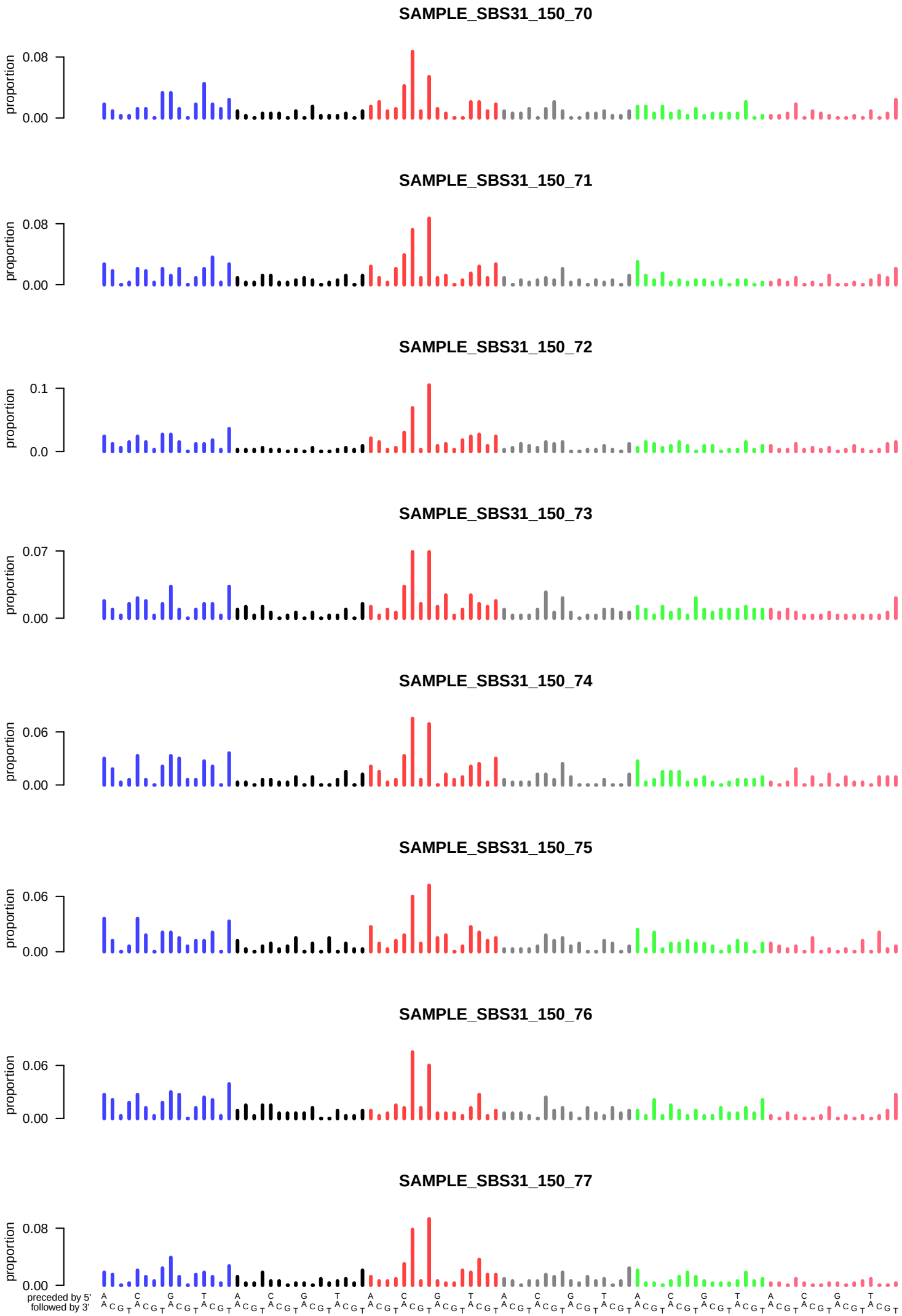
followed by 3'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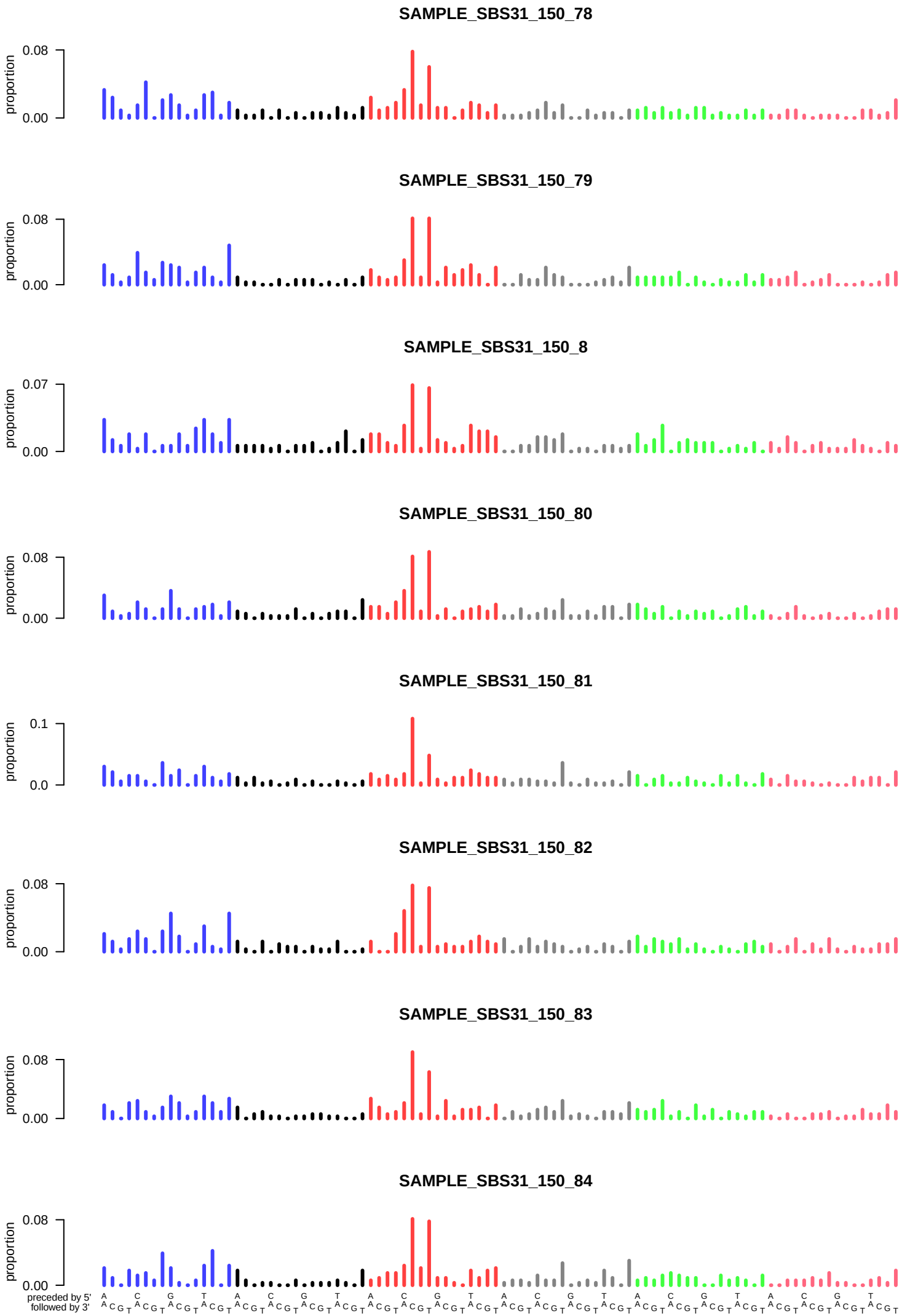
followed by 3'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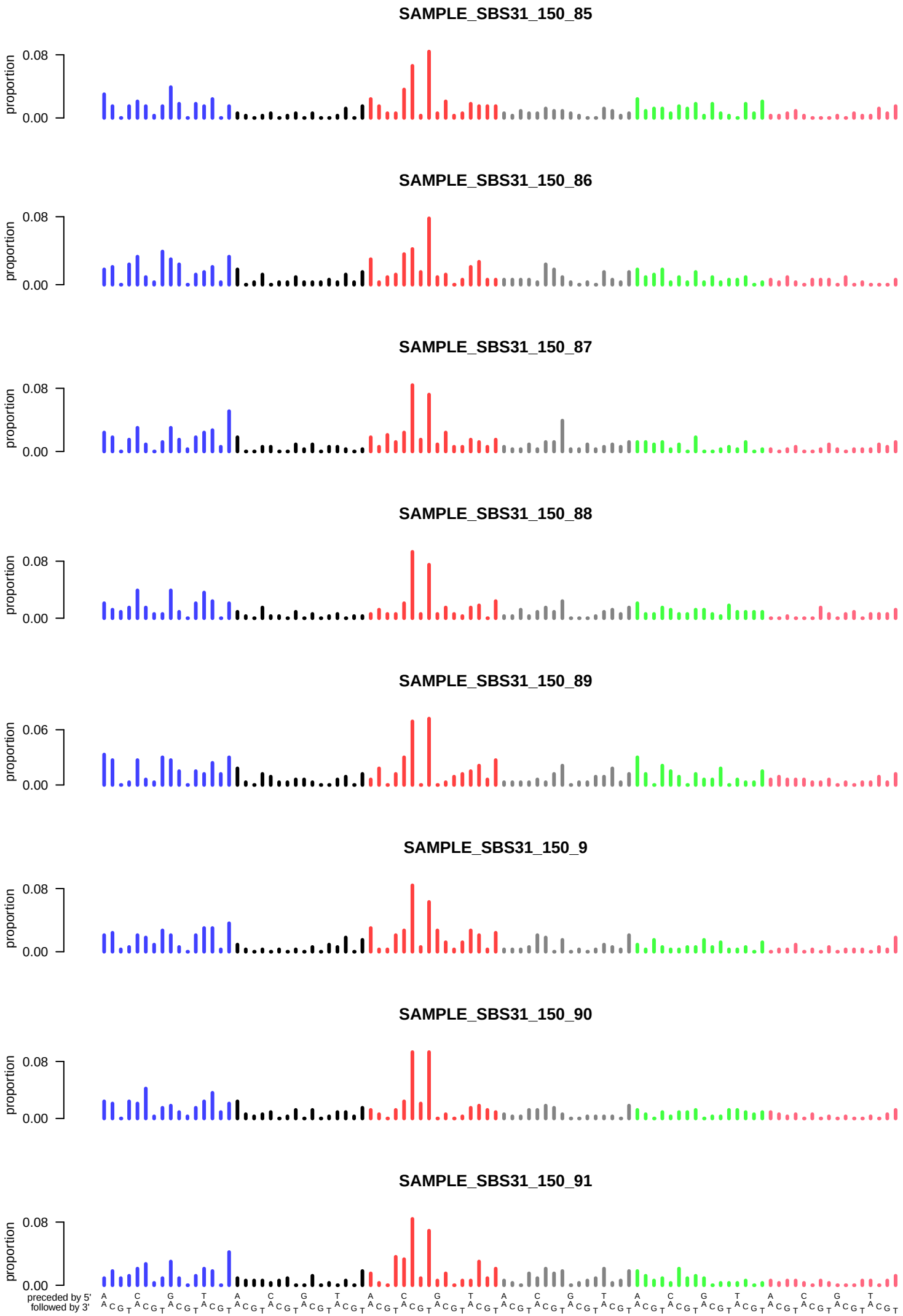
followed by 3'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SAMPLE_SBS31_150_9
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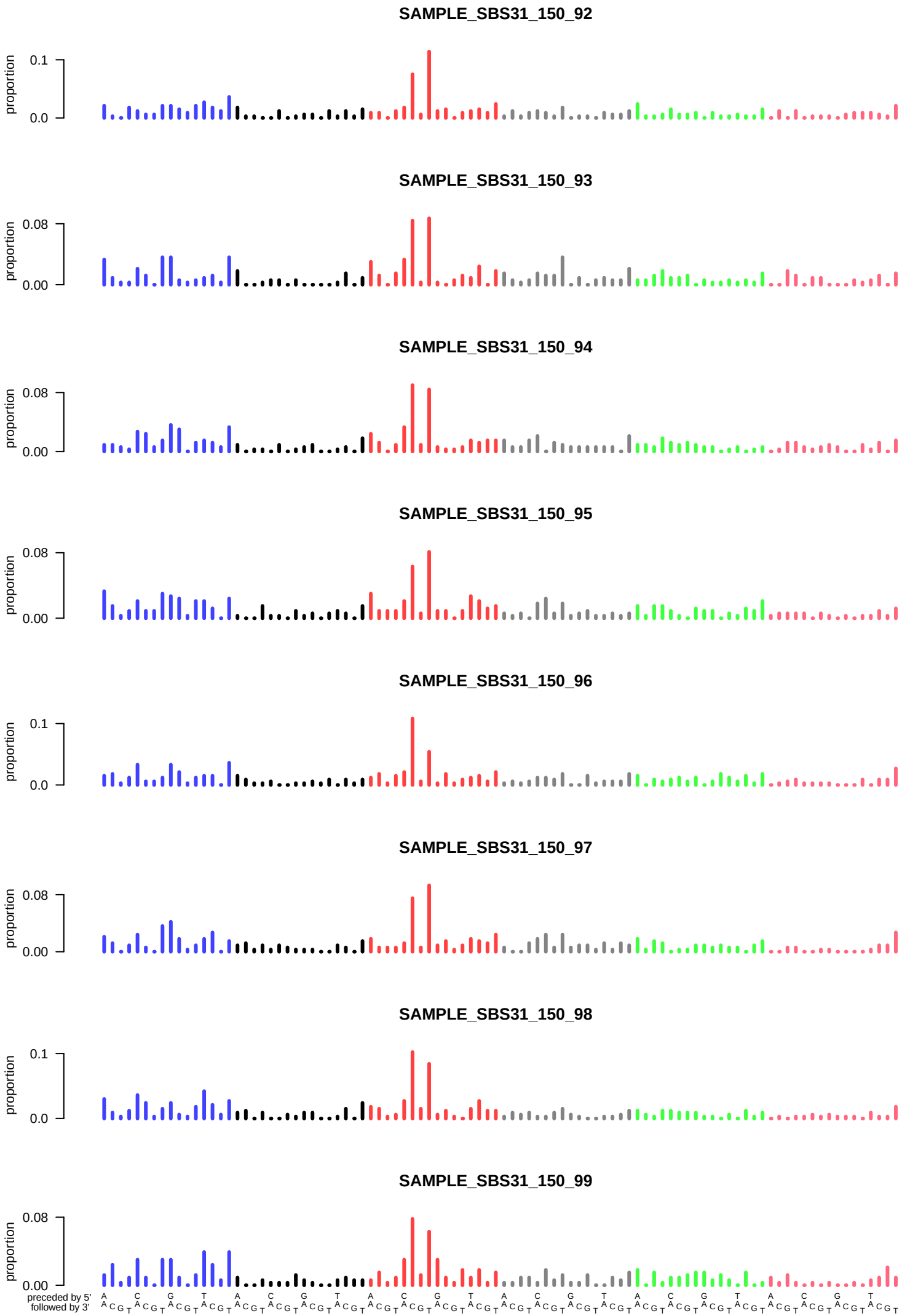
followed by 3'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SAMPLE_SBS31_150_97
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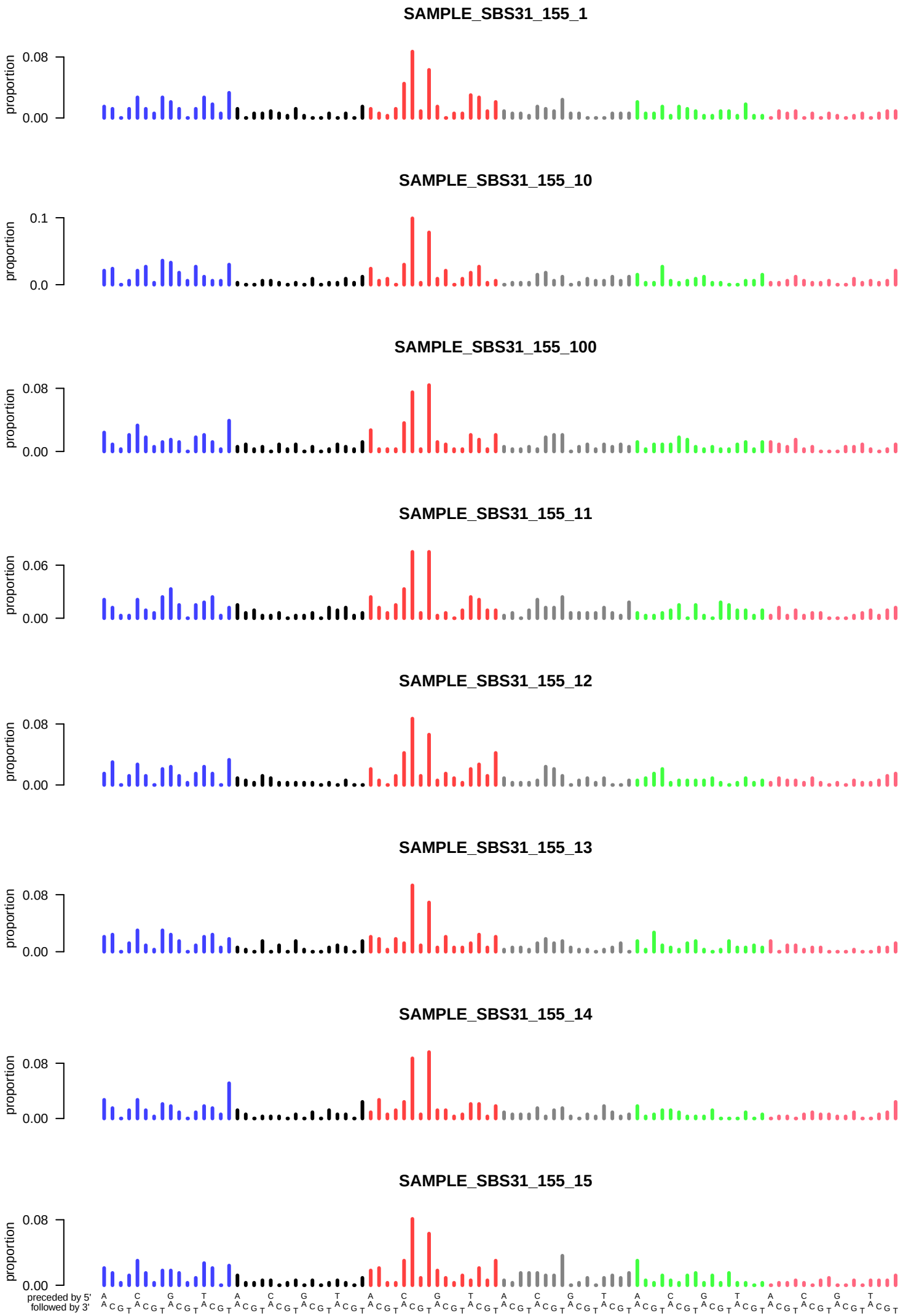
followed by 3'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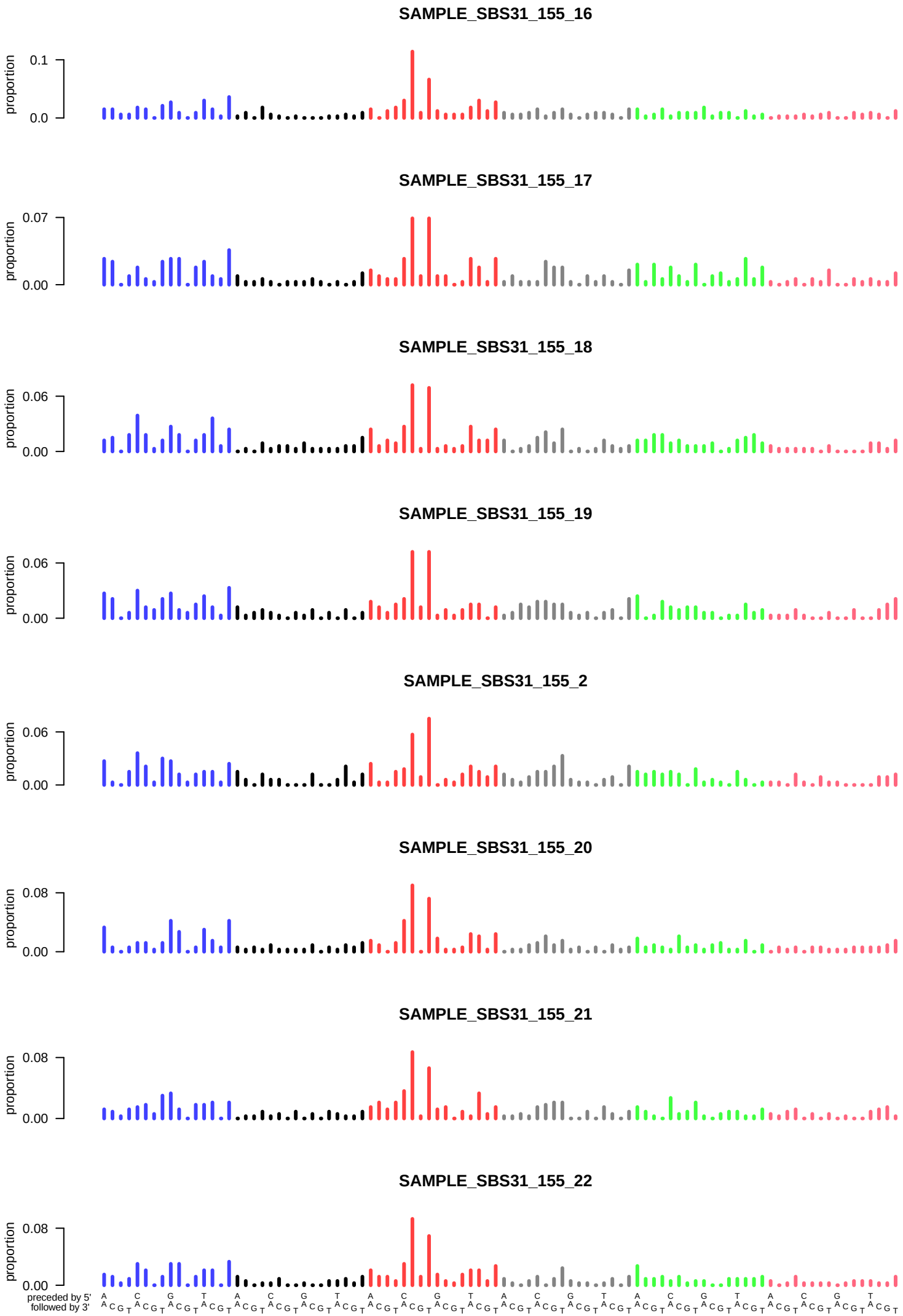
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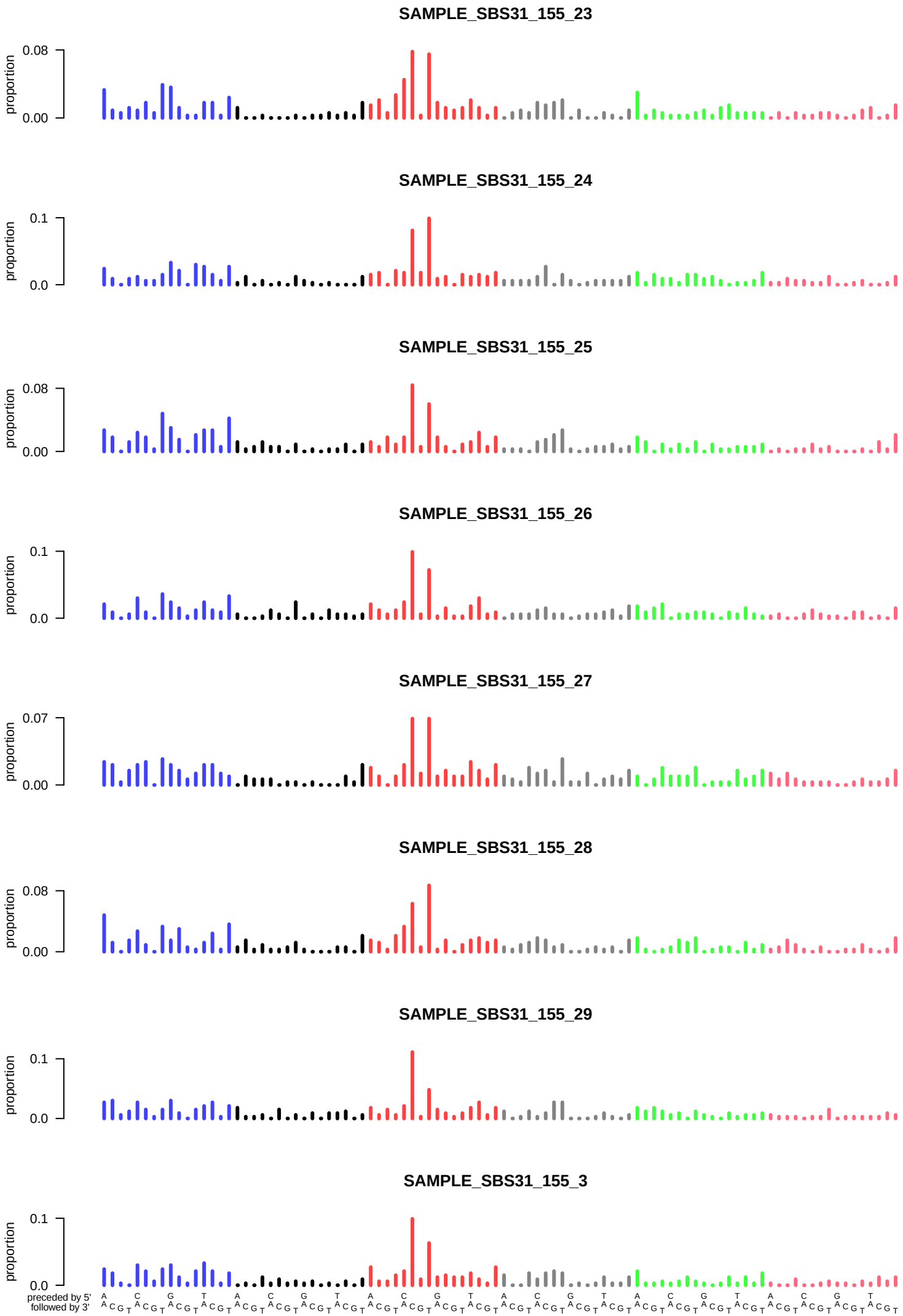
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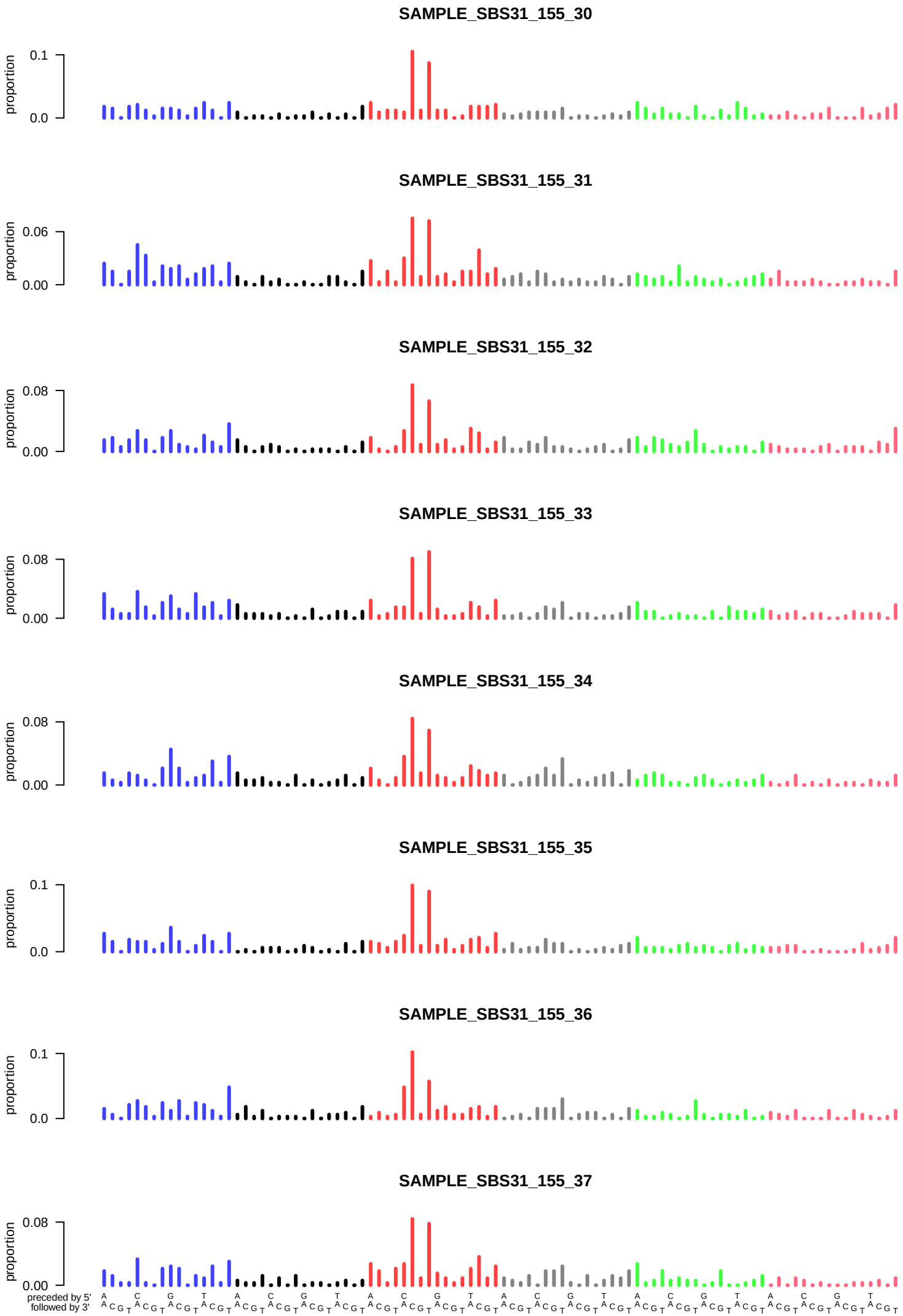
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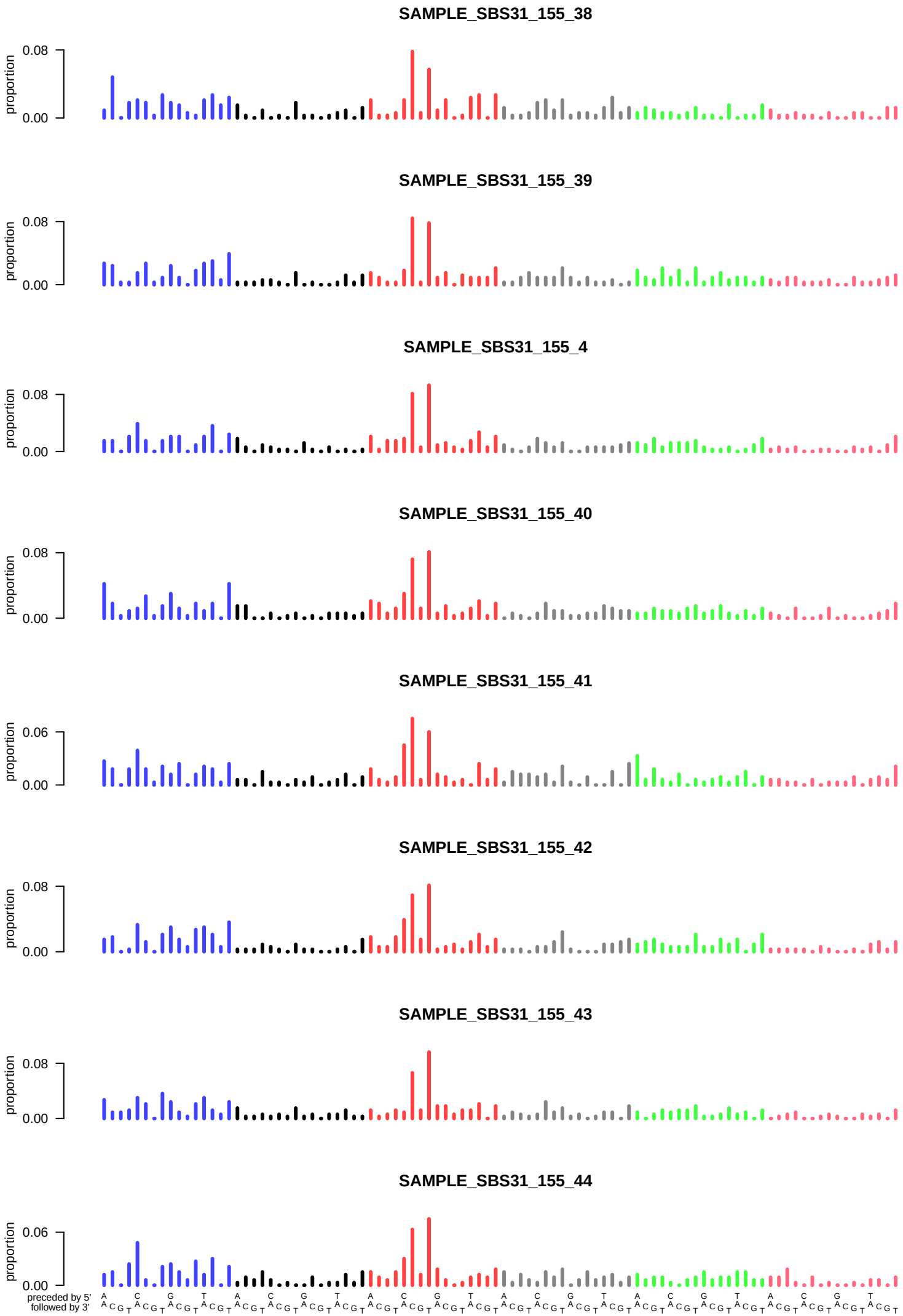
followed by 3'
A C G T A C G T A C G T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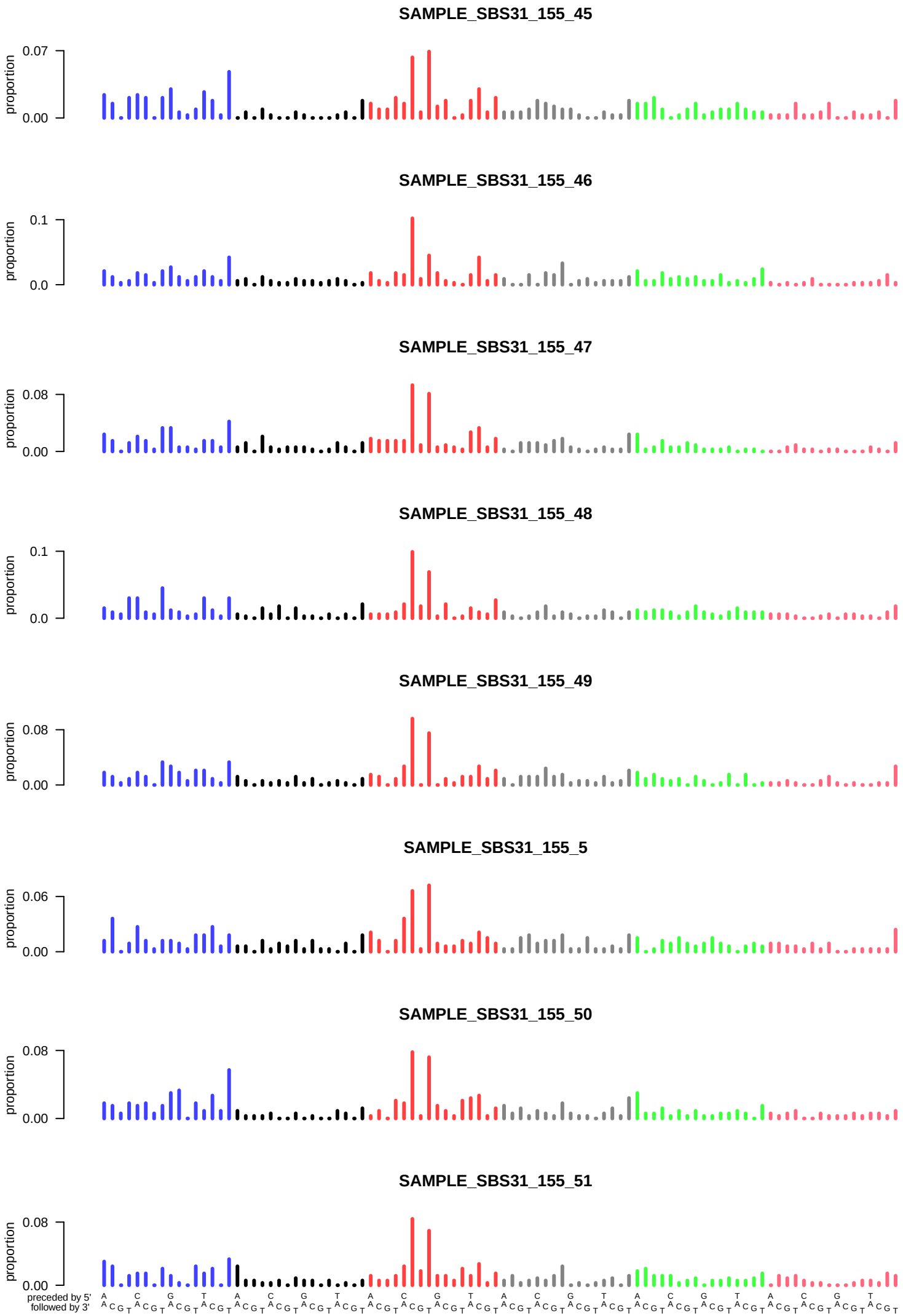
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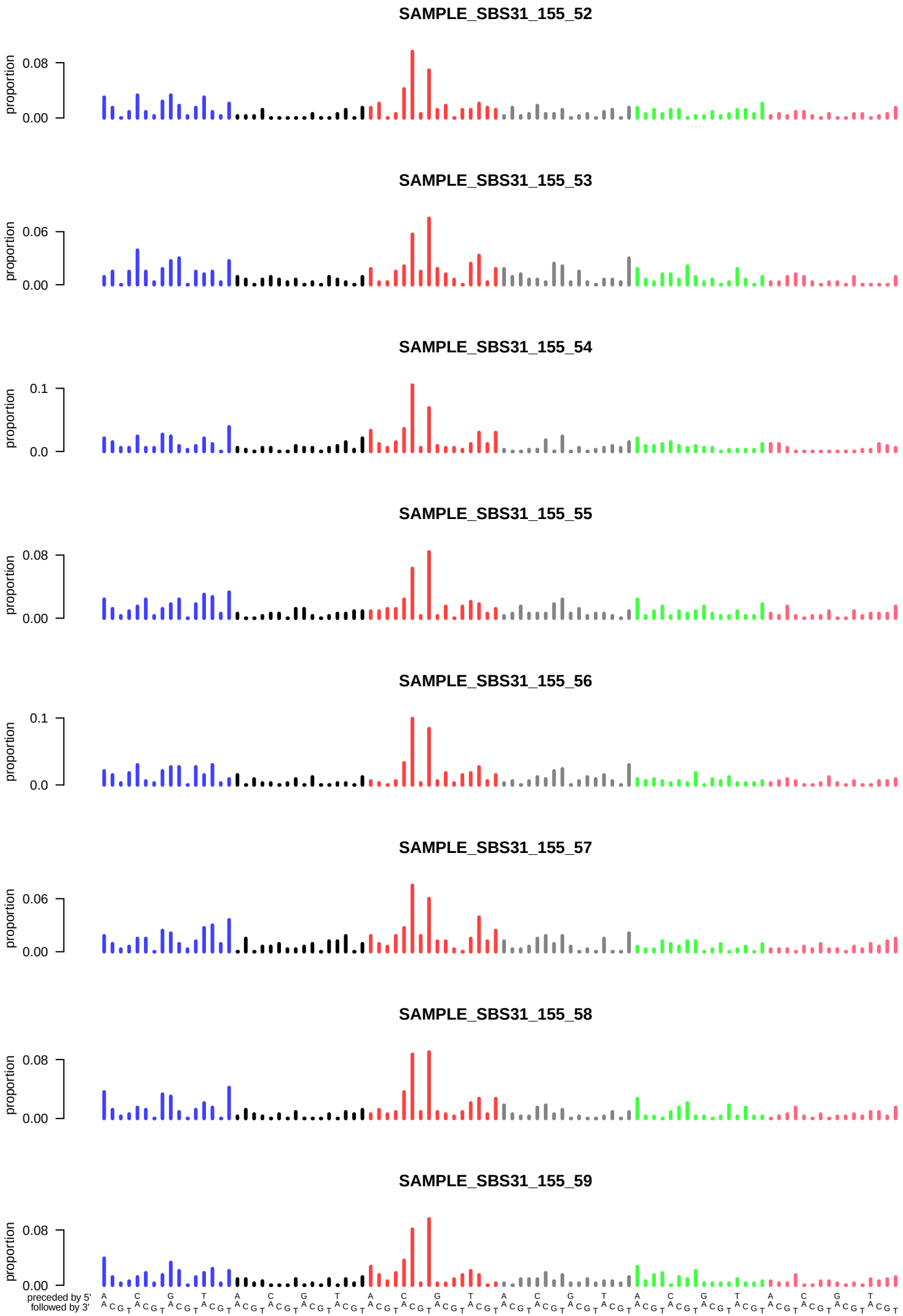
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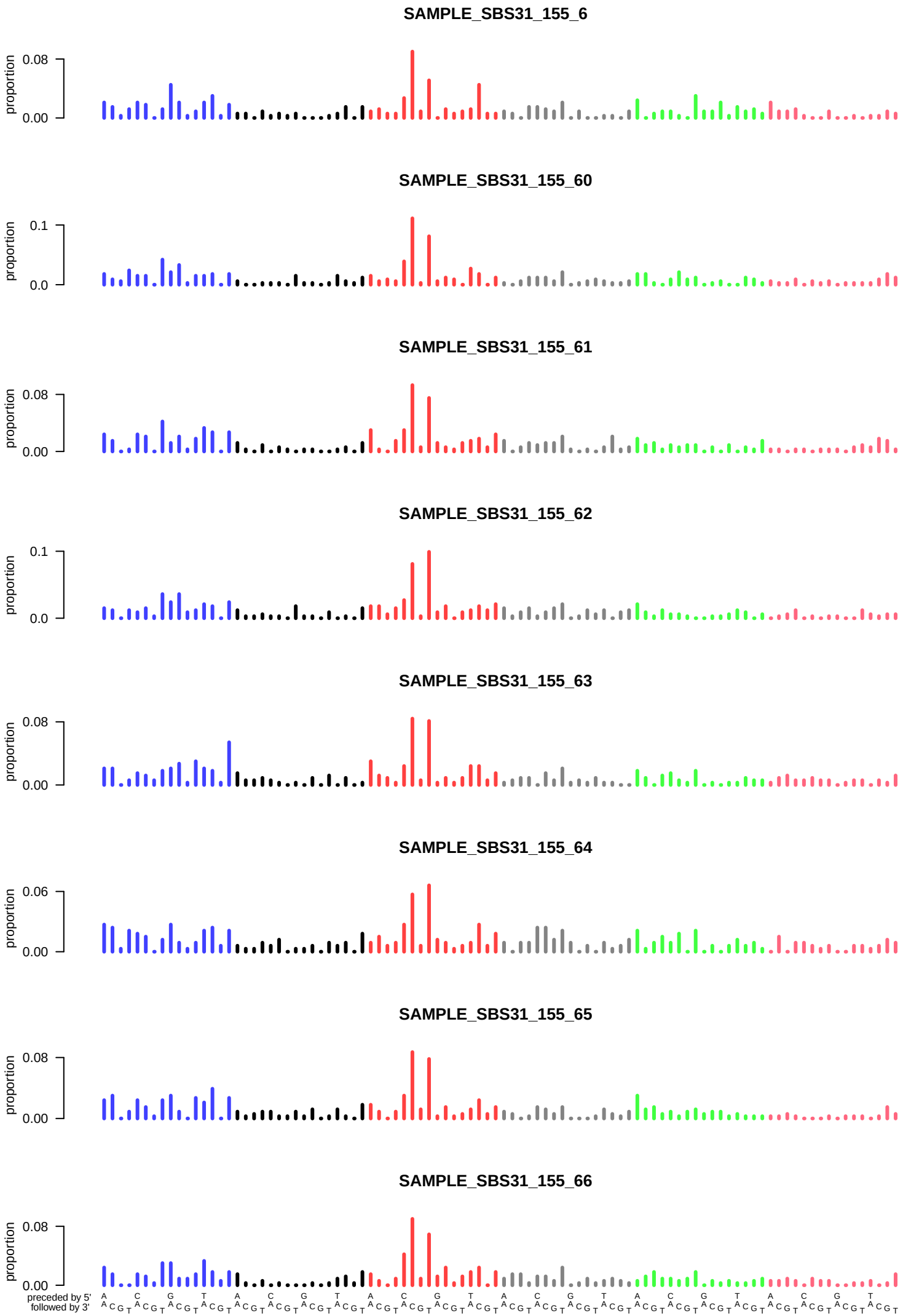
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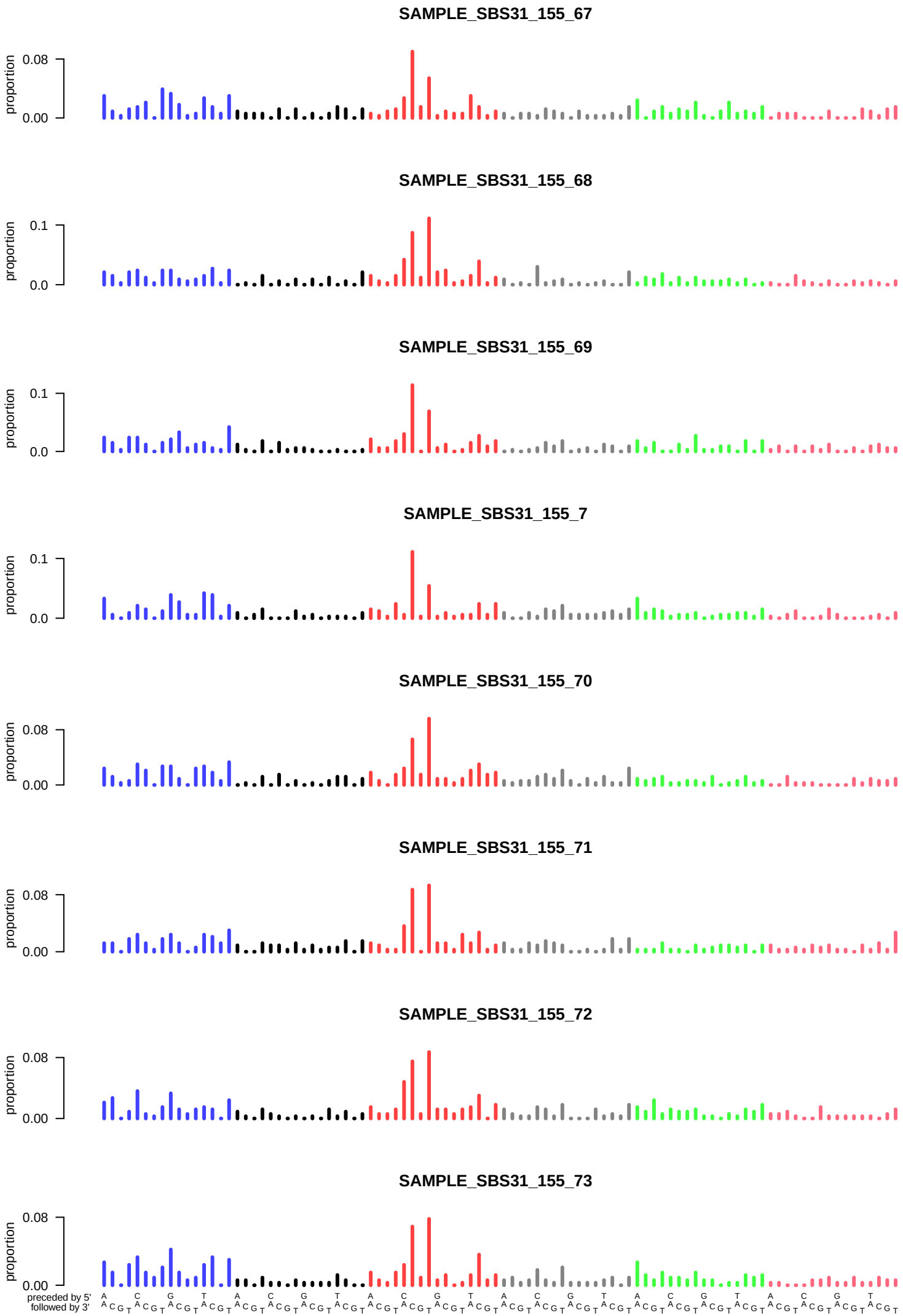
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SAMPLE_SBS31_155_70
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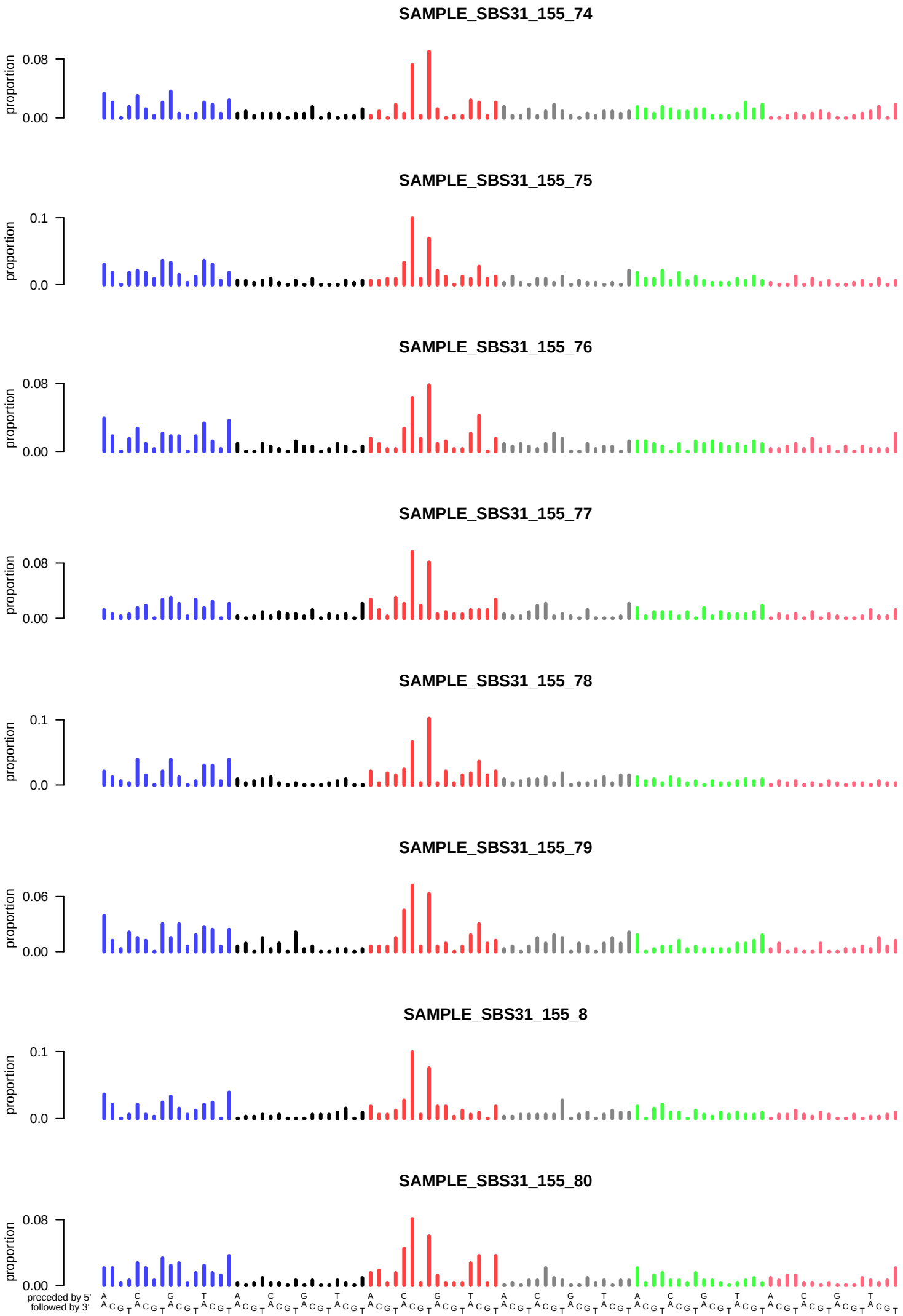
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SAMPLE_SBS31_155_78
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SAMPLE_SBS31_155_79
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SAMPLE_SBS31_155_8
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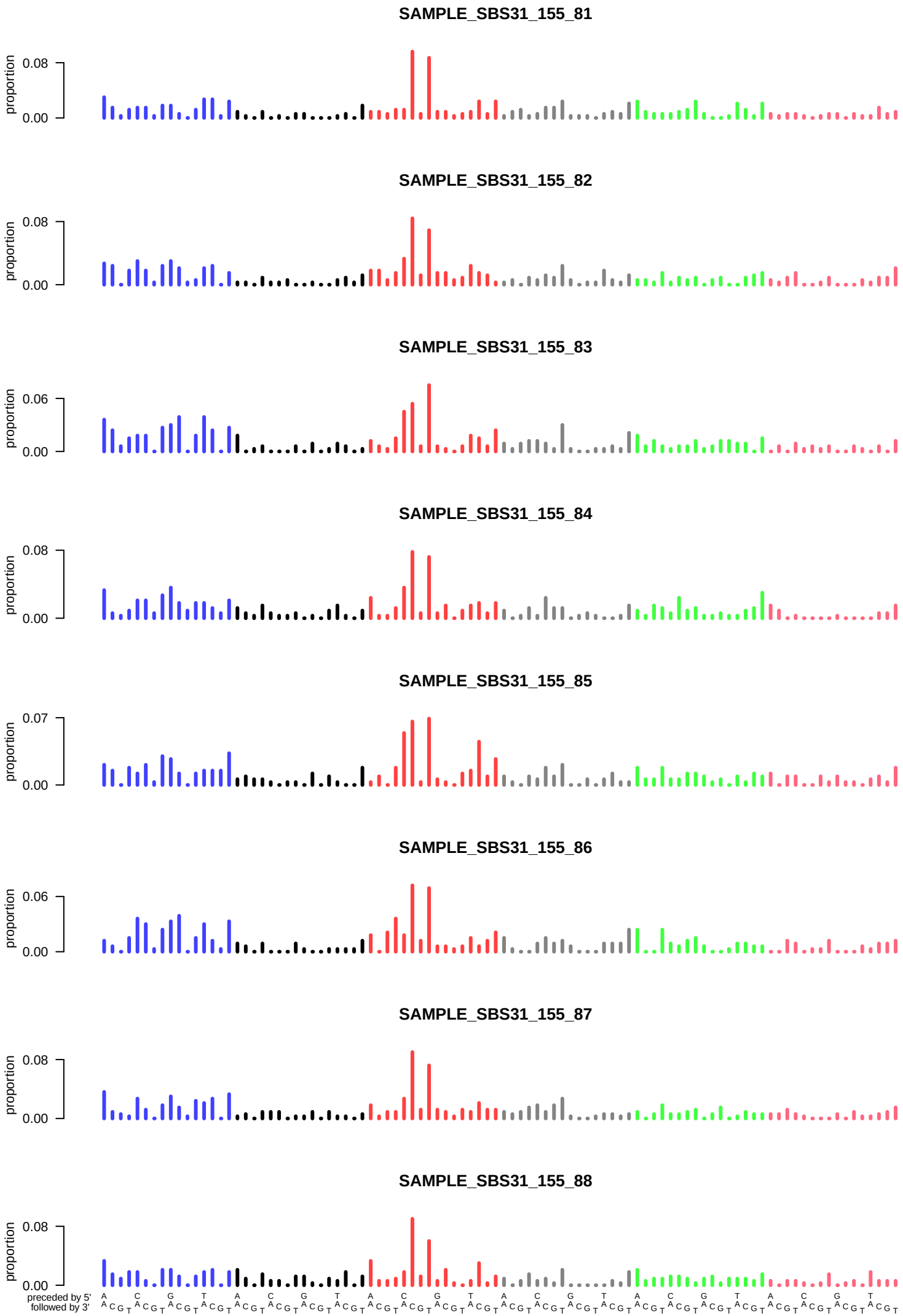
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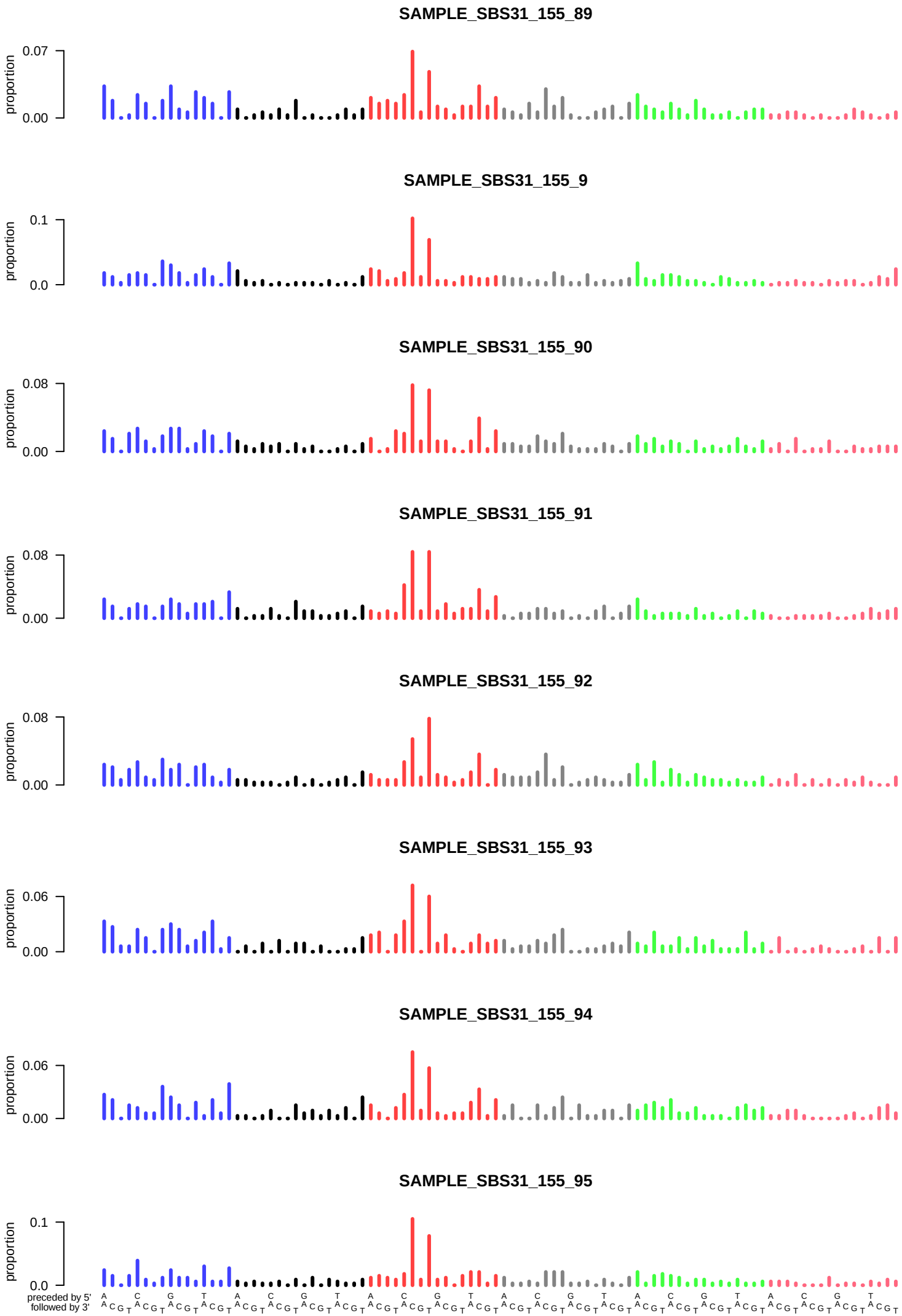
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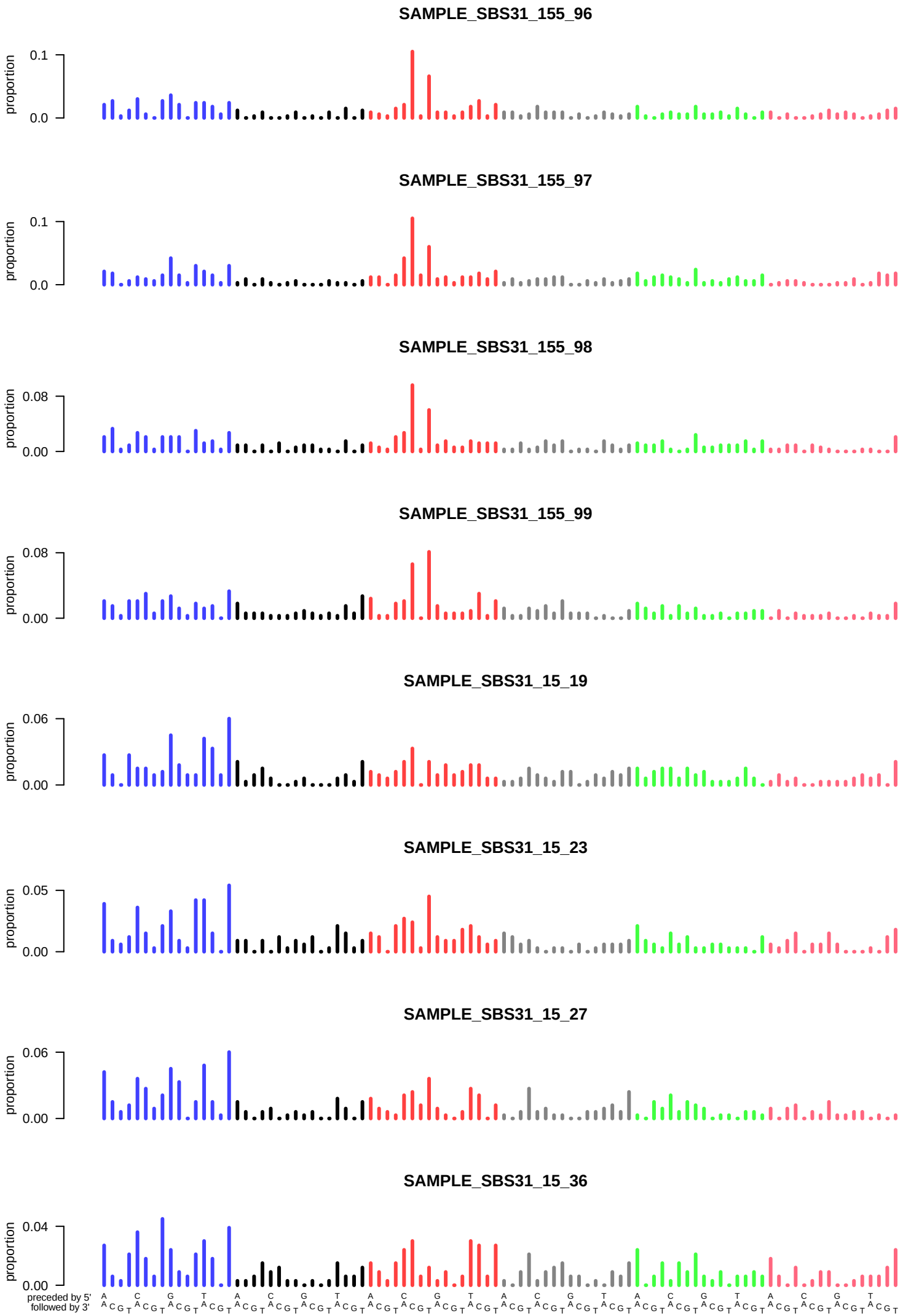
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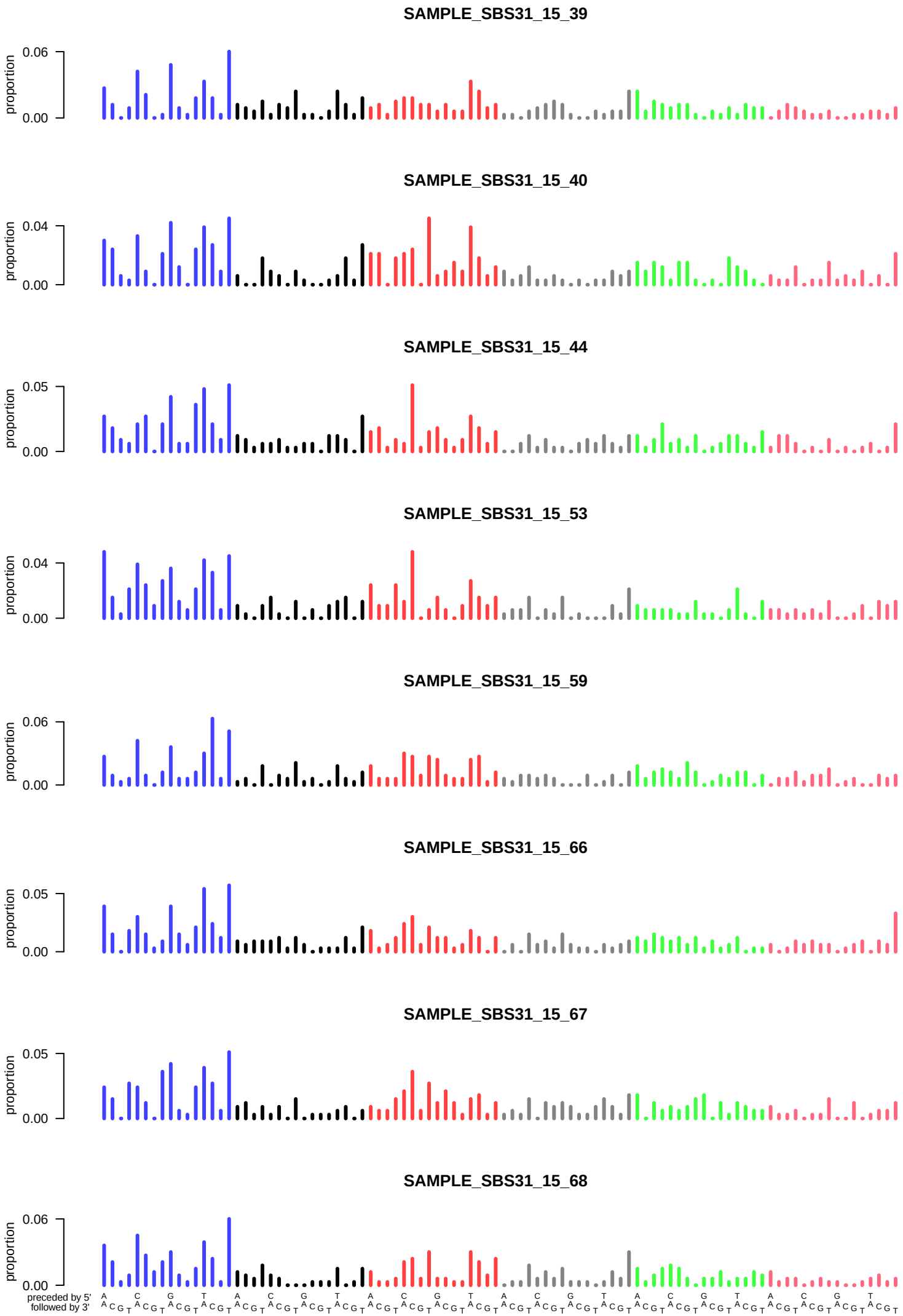
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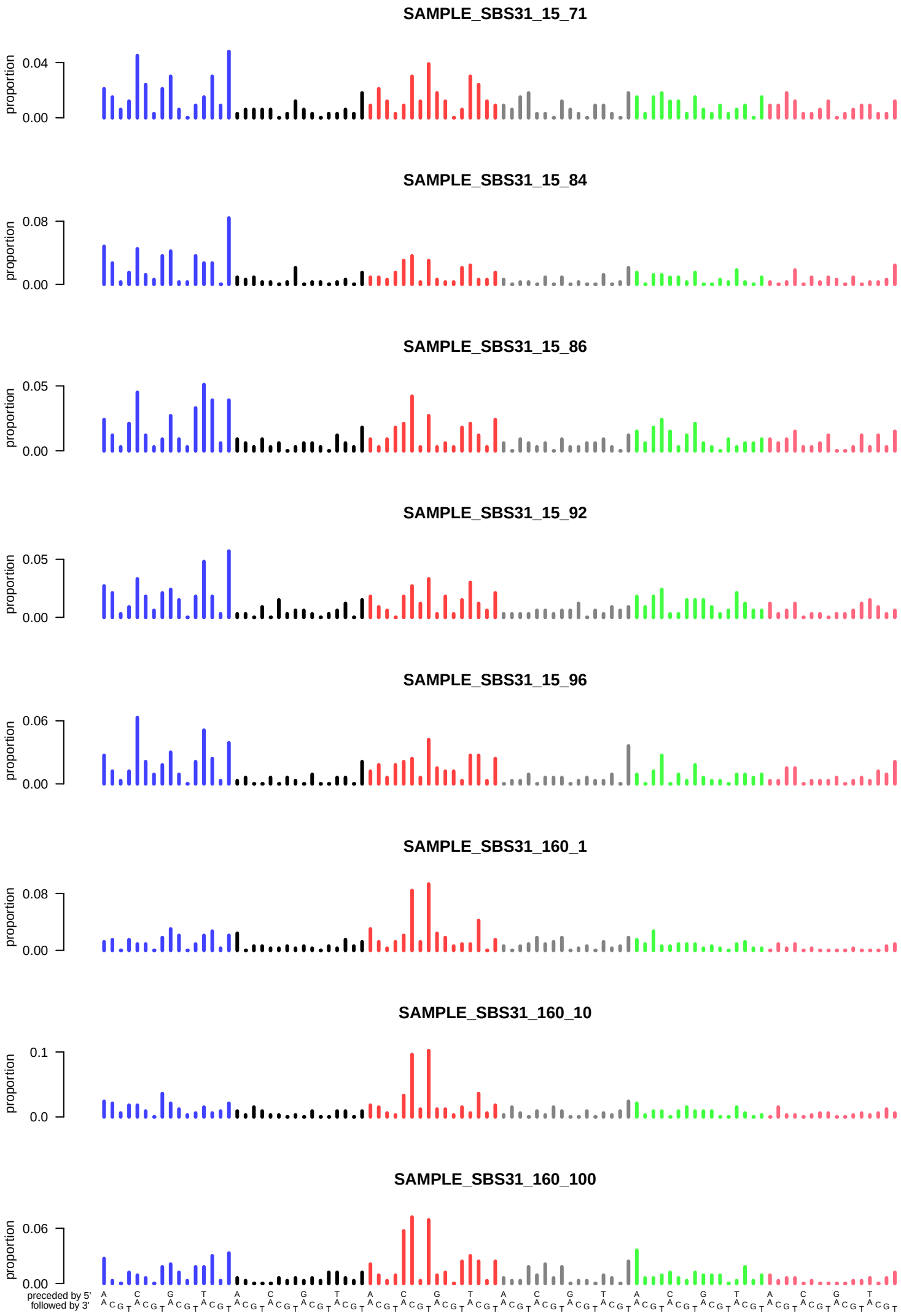
followed by 3'
A C G T A C G T A C G T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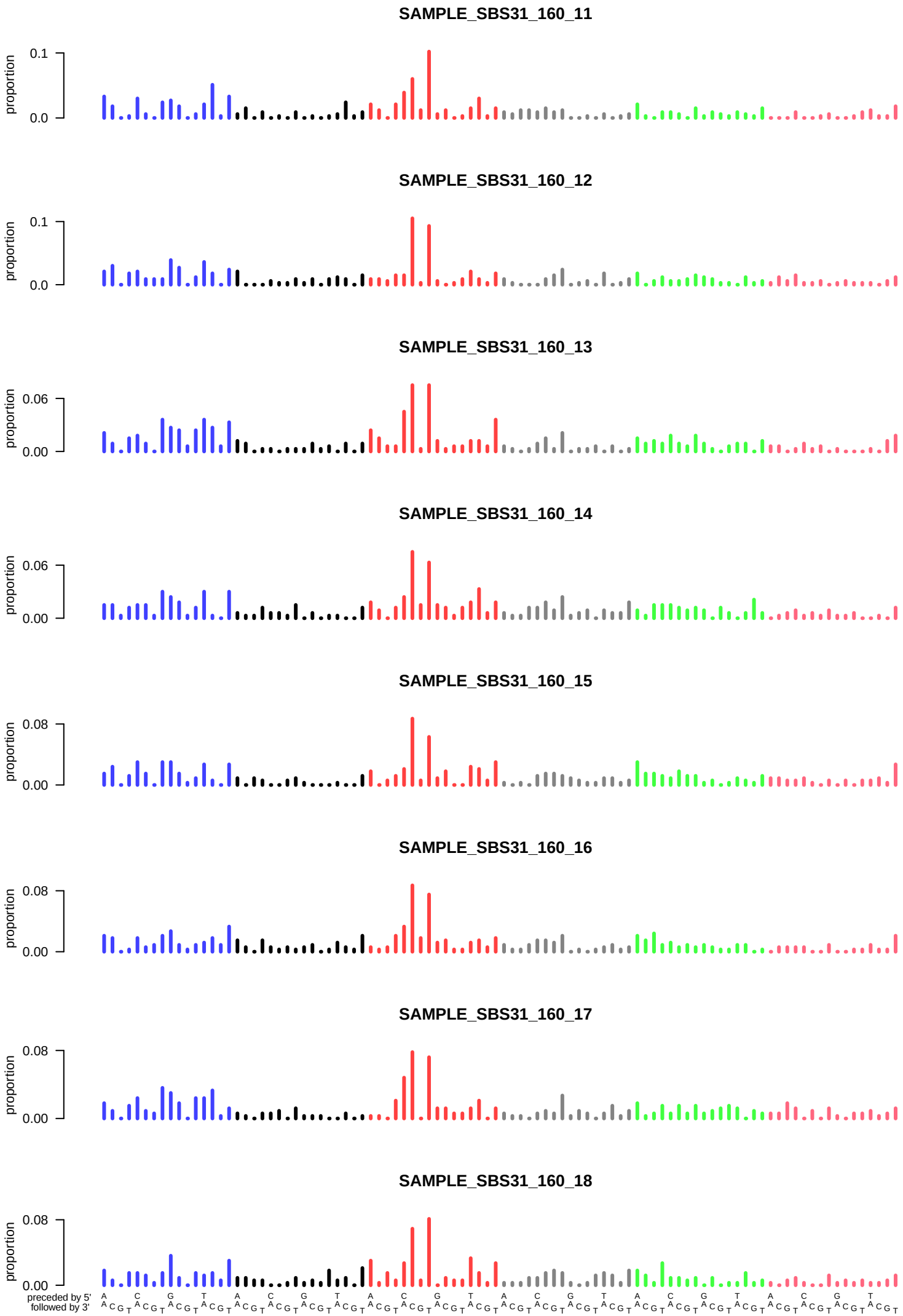
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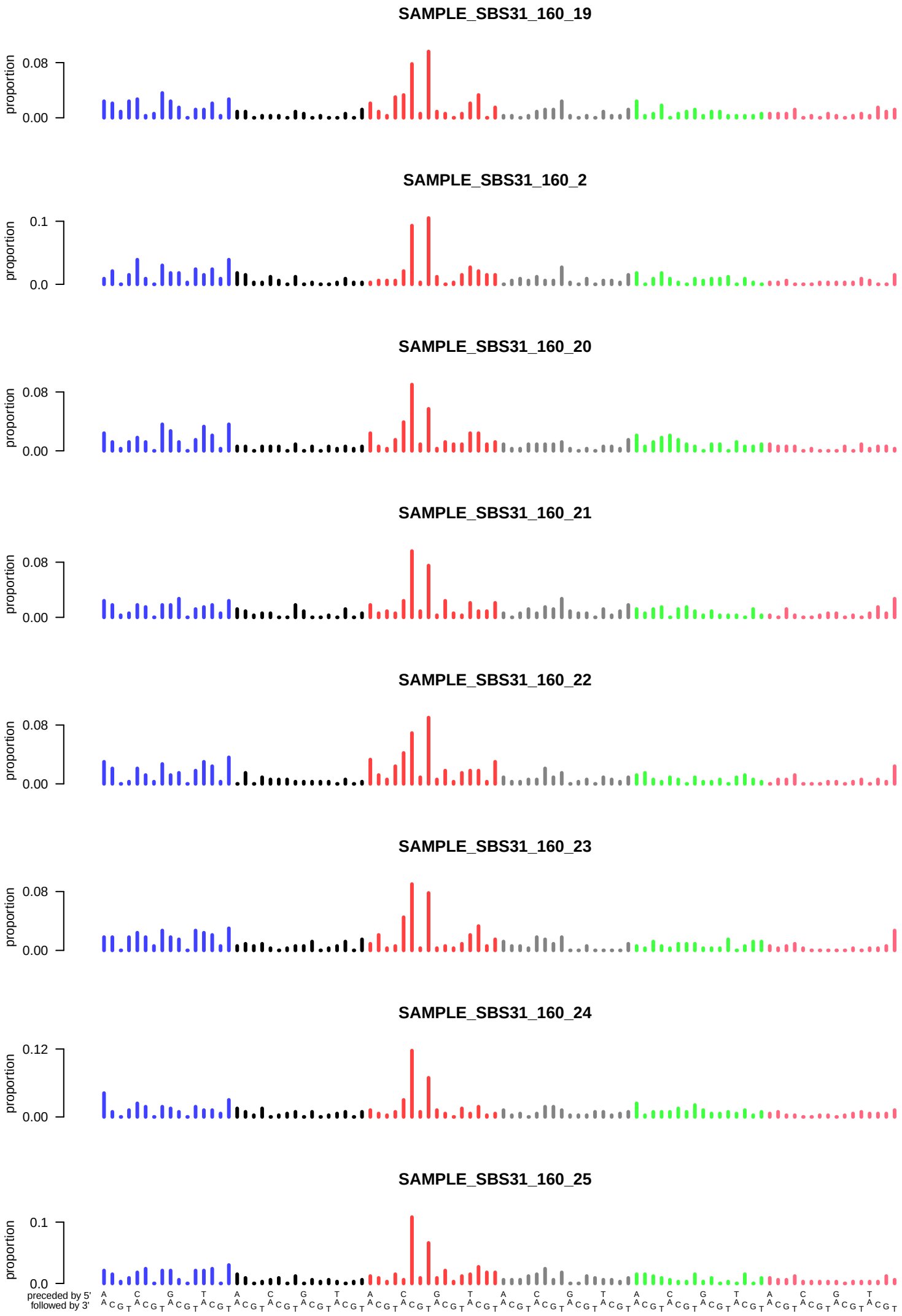
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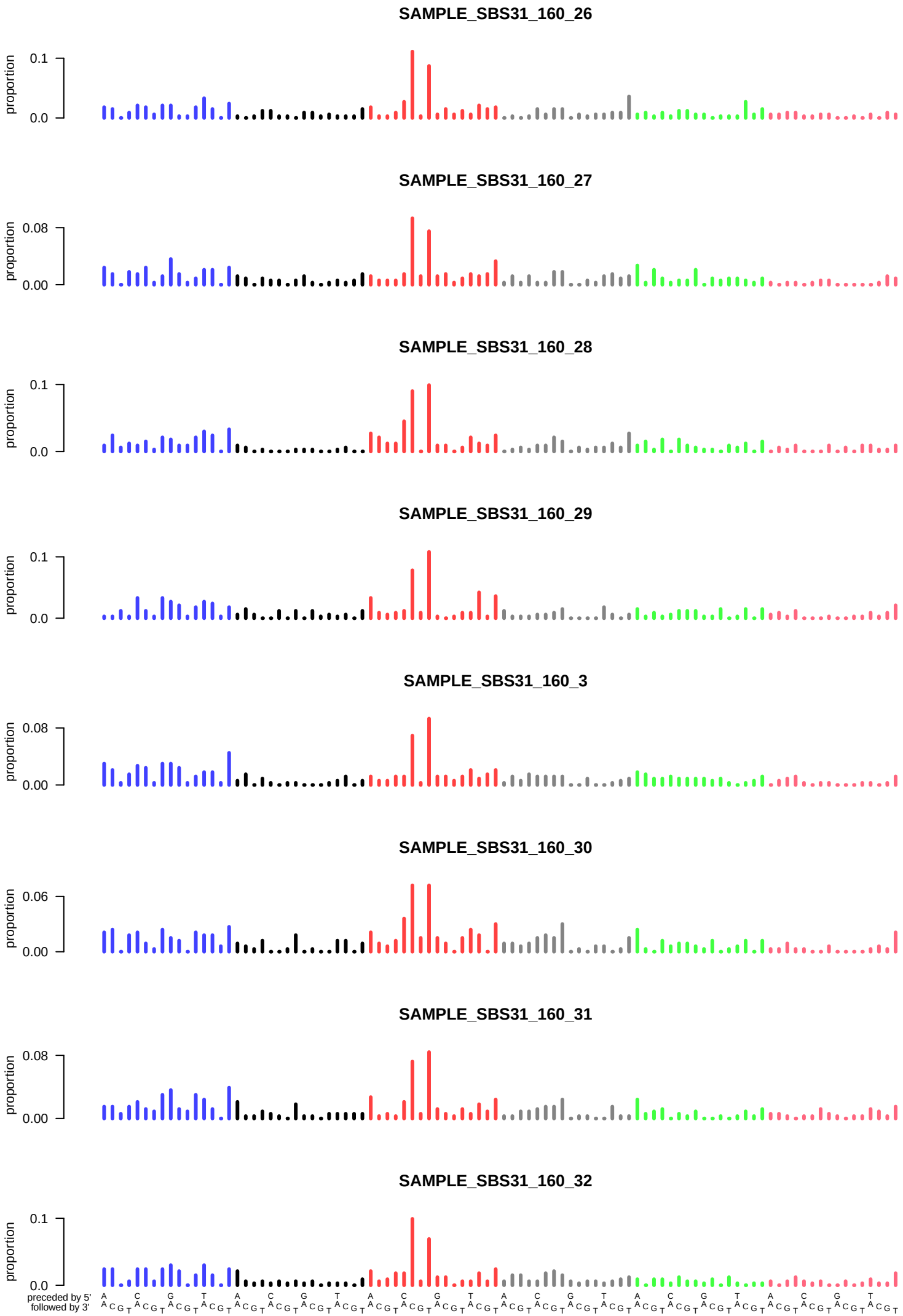
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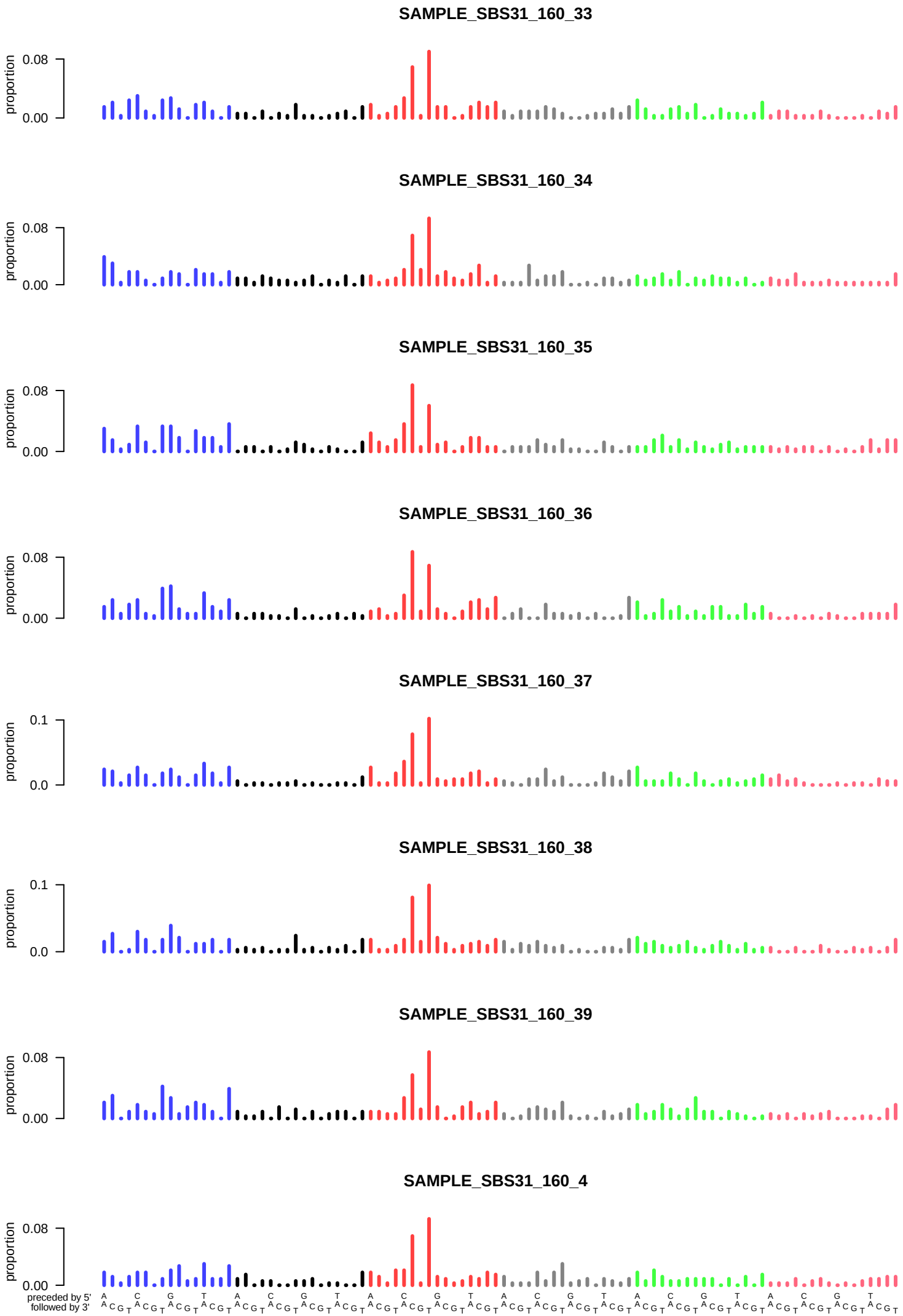
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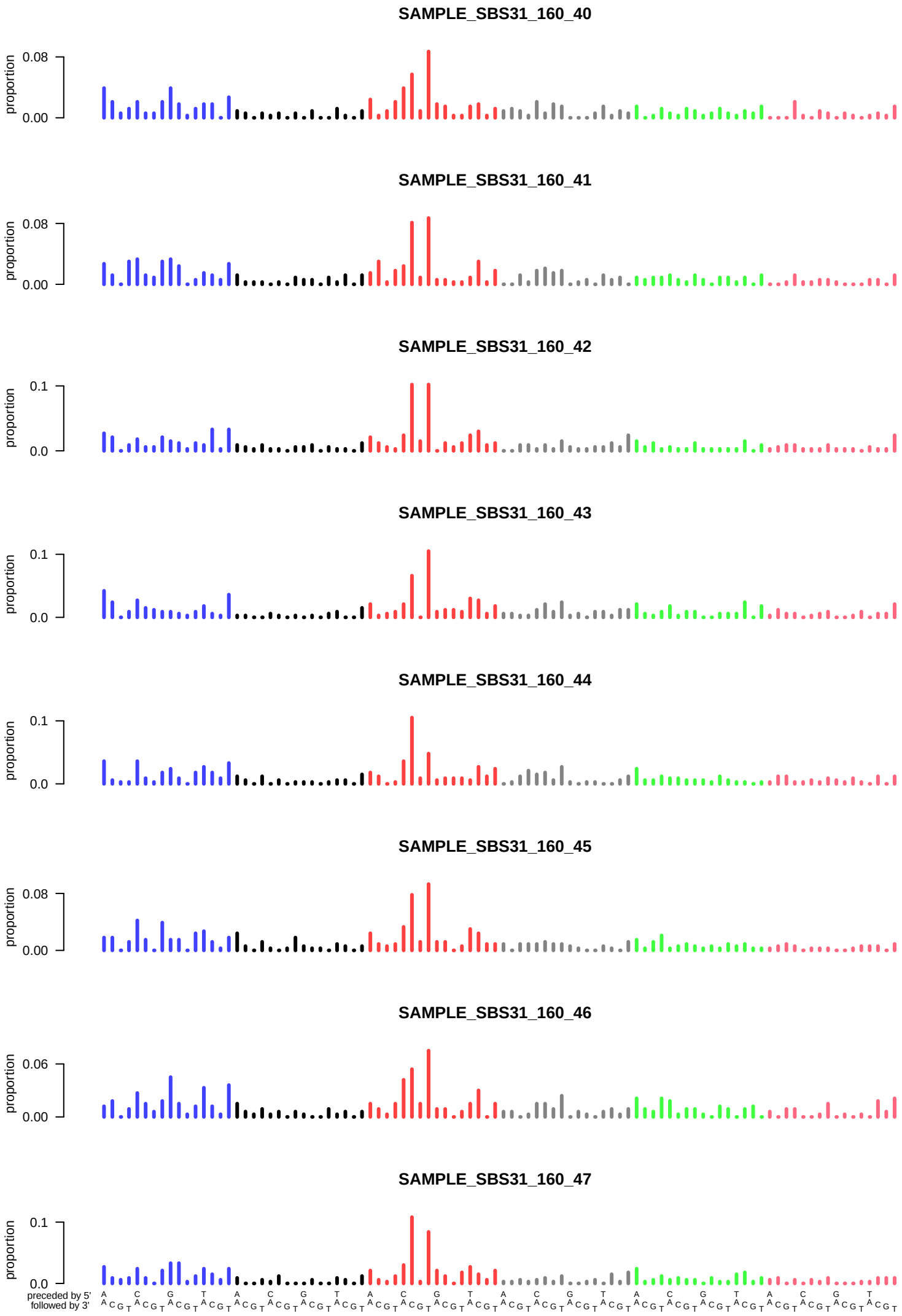
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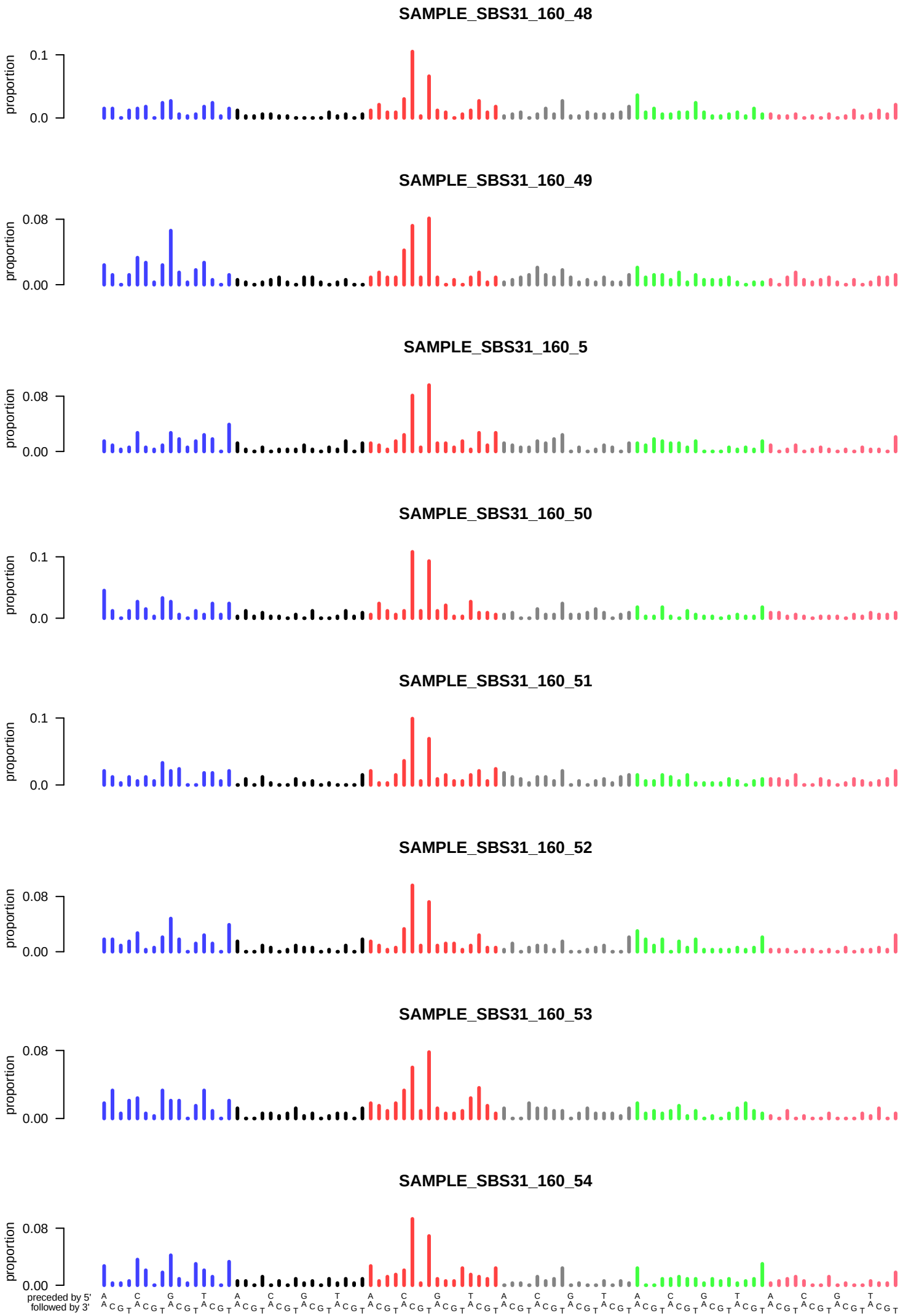
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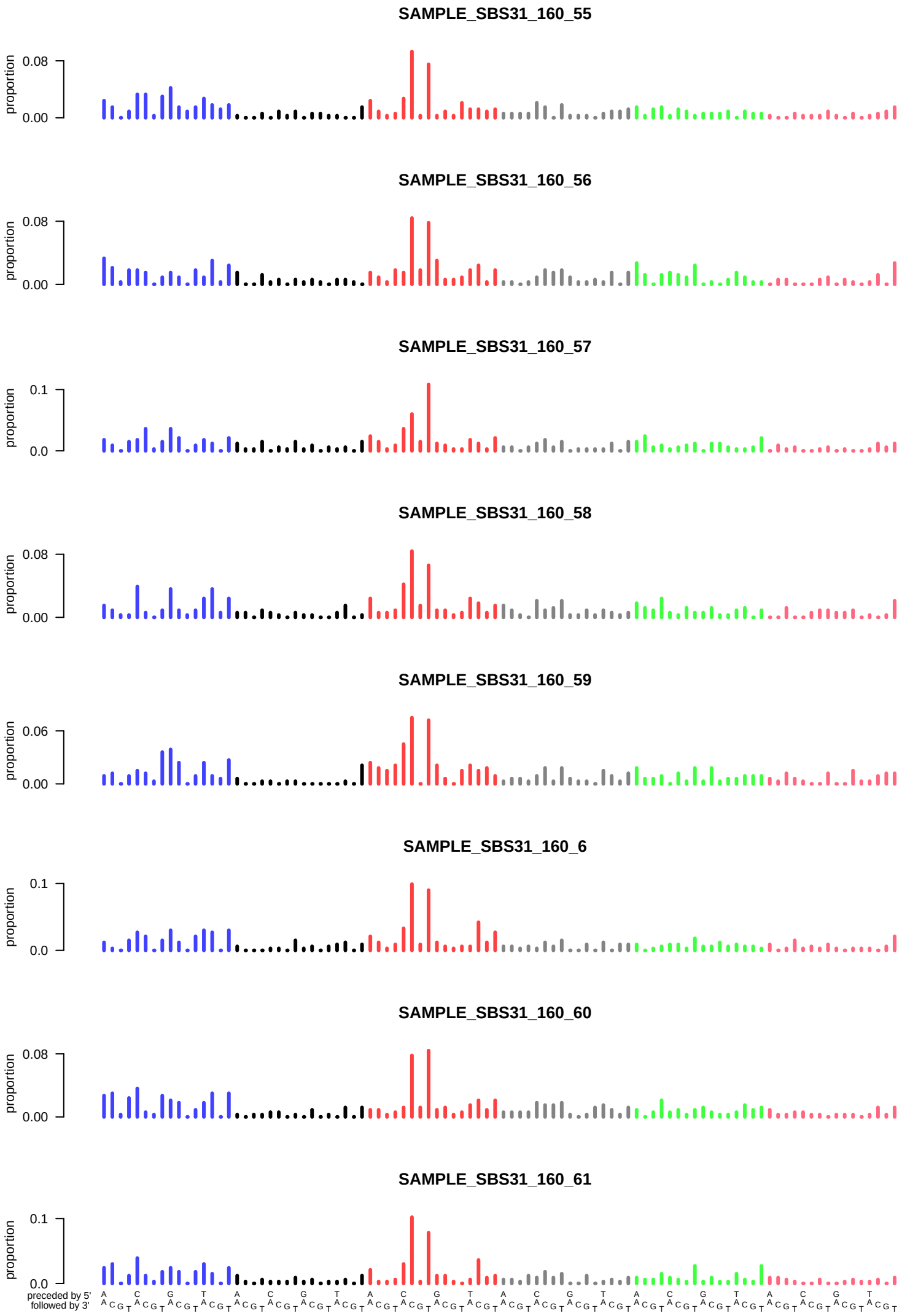
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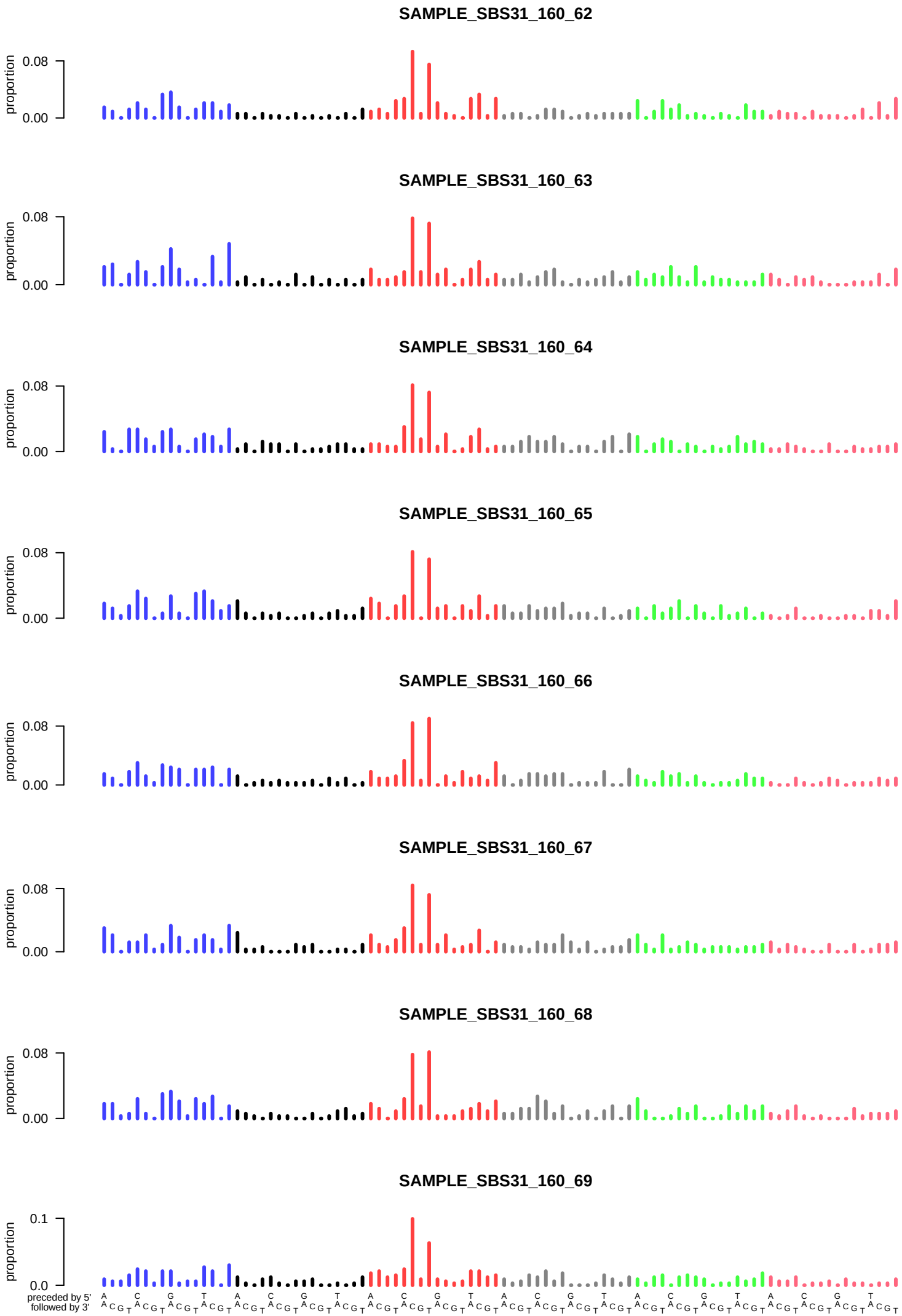
A C G T A C G T A C G T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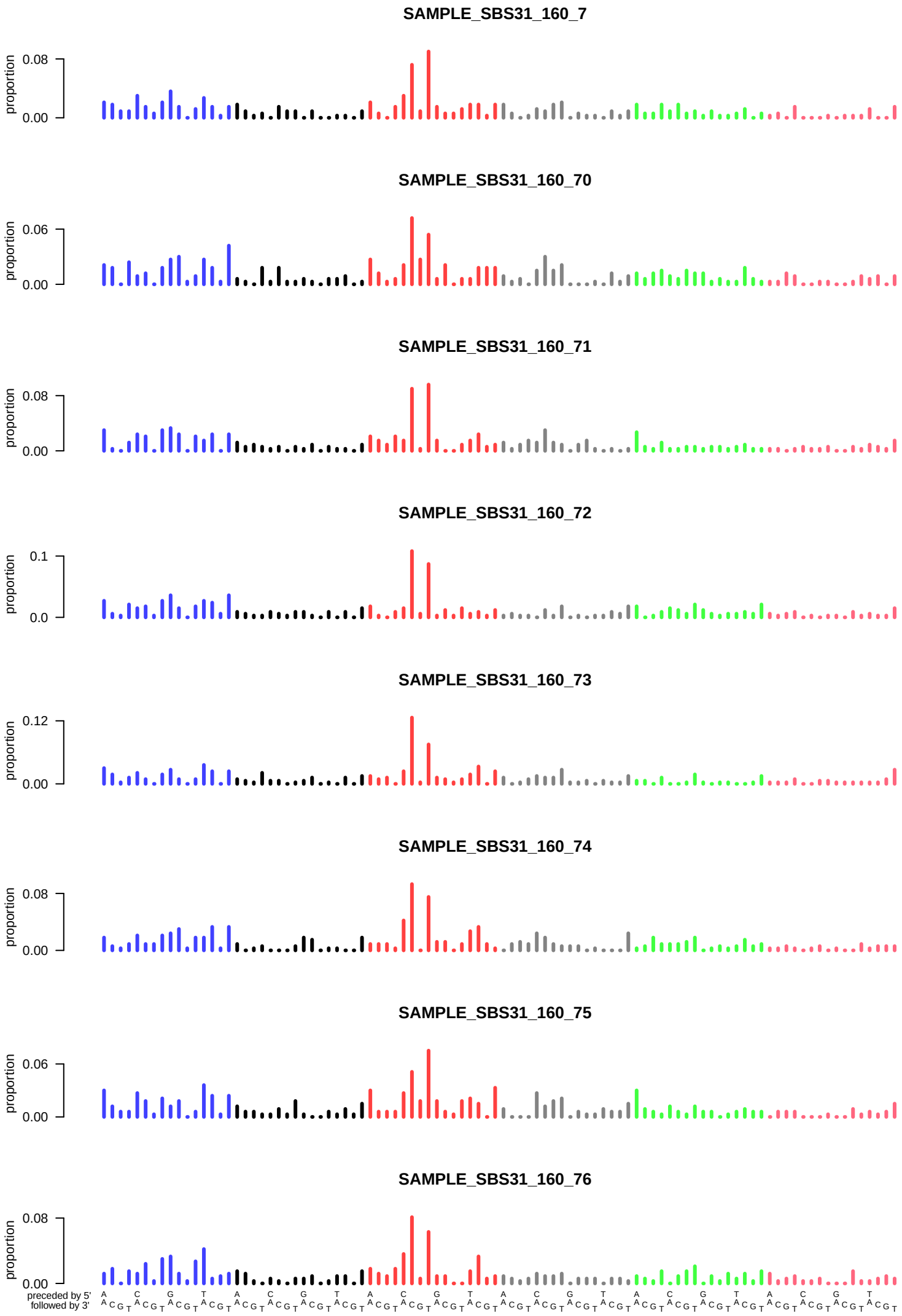
followed by 3'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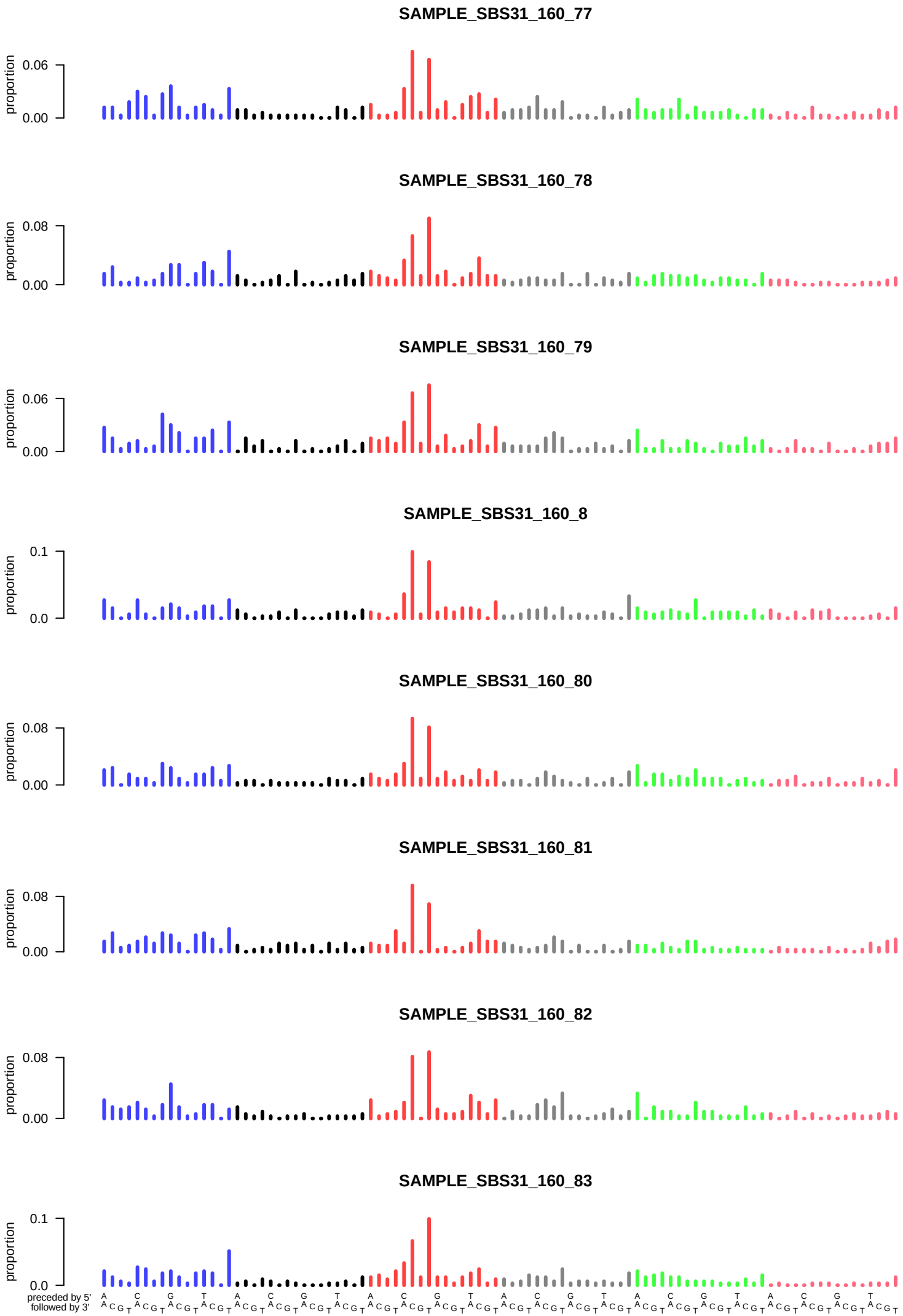
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SAMPLE_SBS31_160_8
proportion
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SAMPLE_SBS31_160_80
proportion
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SAMPLE_SBS31_160_81
proportion
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SAMPLE_SBS31_160_82
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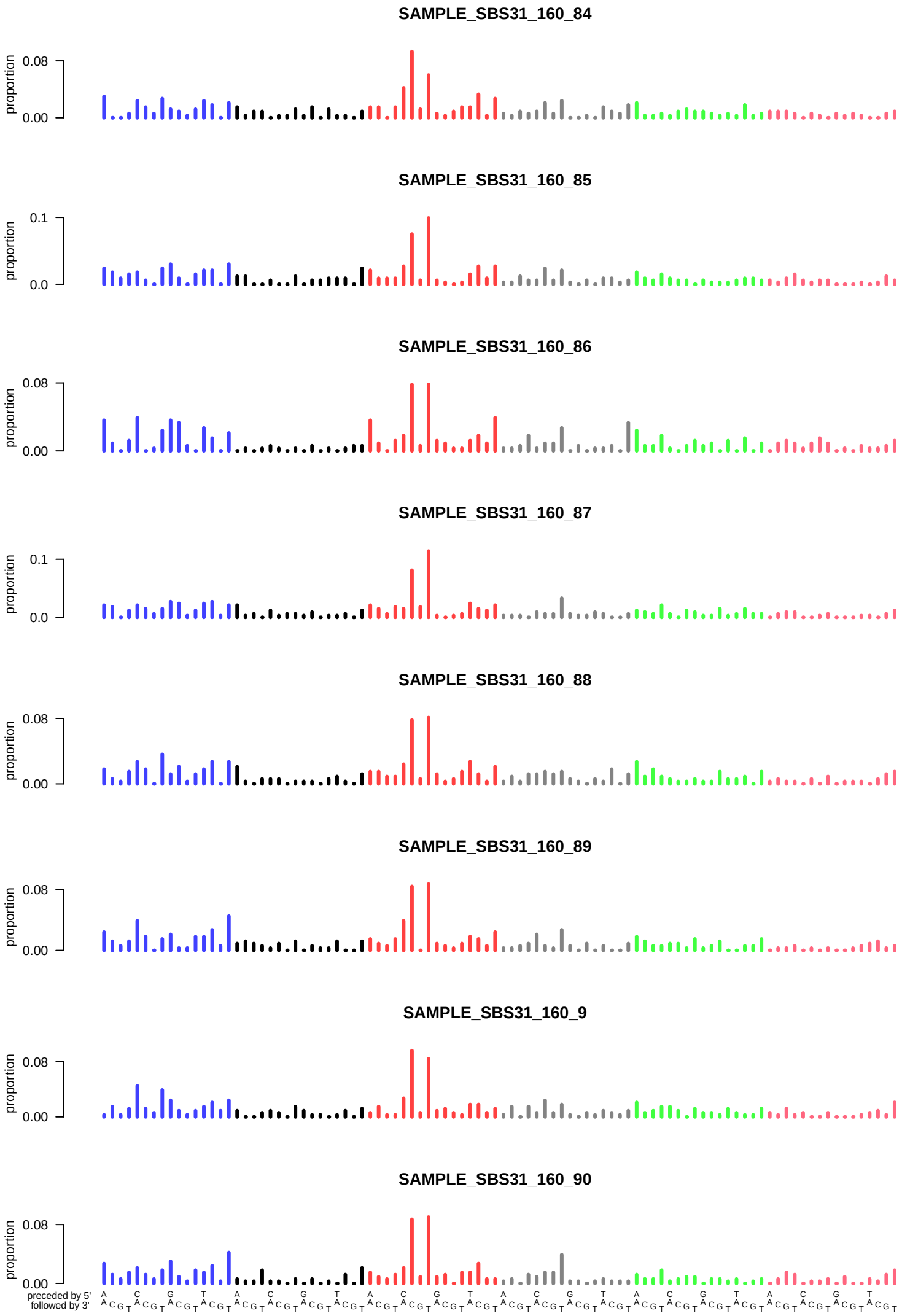
followed by 3'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SAMPLE_SBS31_160_87
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SAMPLE_SBS31_160_88
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SAMPLE_SBS31_160_89
proportion
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SAMPLE_SBS31_160_9
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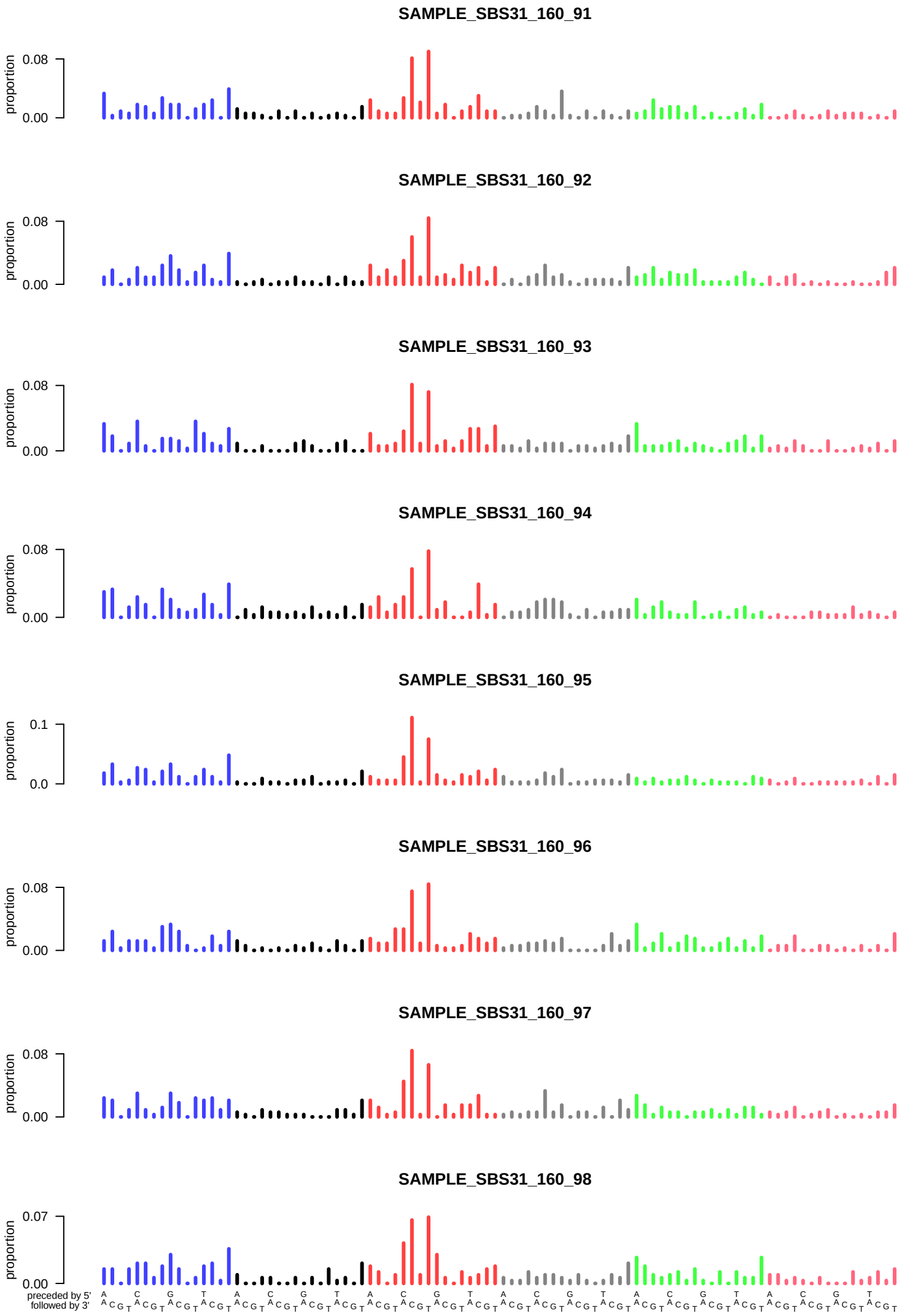
preceded by 5'
followed by 3'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SAMPLE_SBS31_160_94
proportion
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SAMPLE_SBS31_160_95
proportion
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SAMPLE_SBS31_160_96
proportion
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0.00
SAMPLE_SBS31_160_97
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SAMPLE_SBS31_160_98
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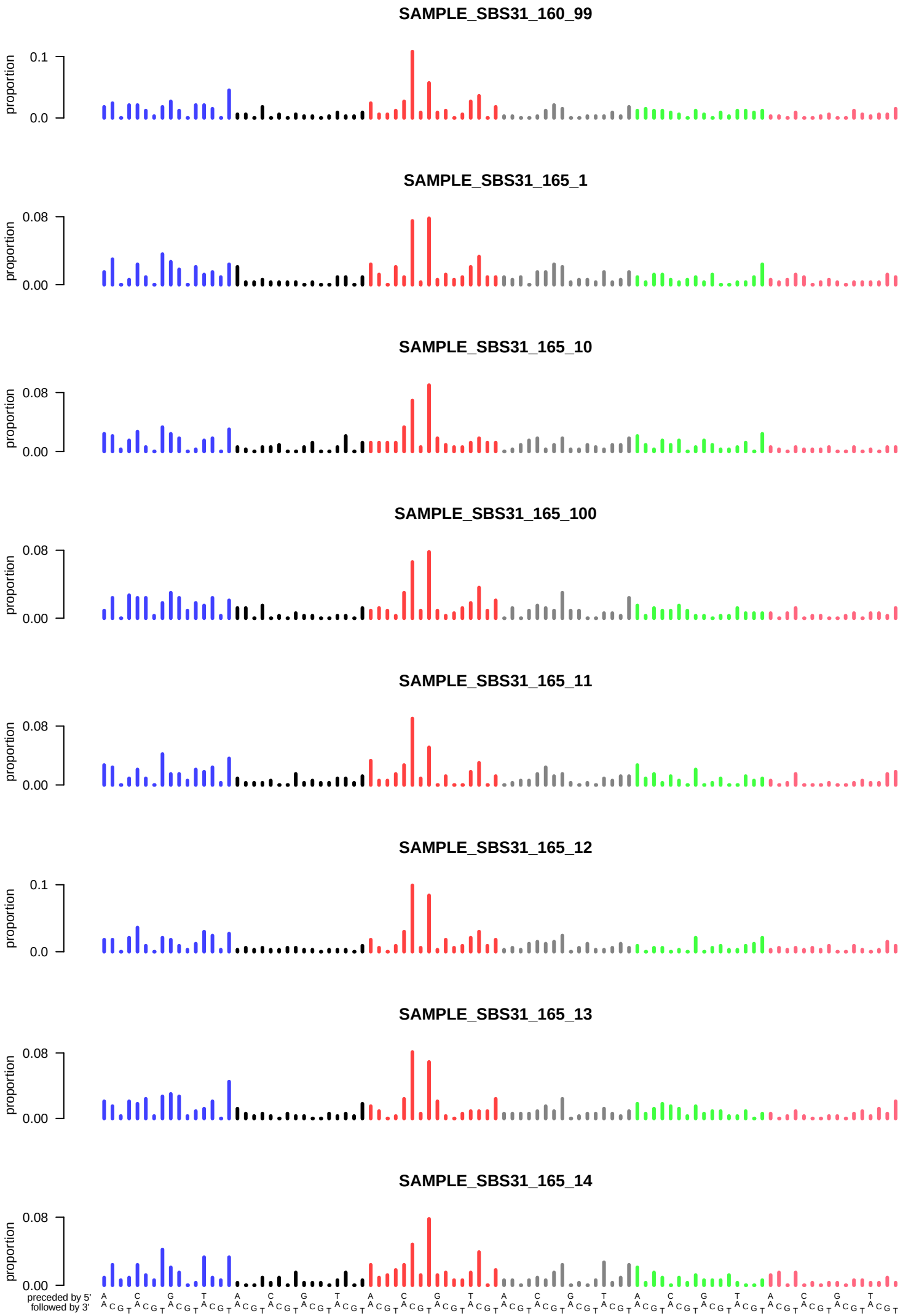
preceded by 5'
followed by 3'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SAMPLE_SBS31_165_100
proportion
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SAMPLE_SBS31_165_11
proportion
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SAMPLE_SBS31_165_12
proportion
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SAMPLE_SBS31_165_13
proportion
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SAMPLE_SBS31_165_14
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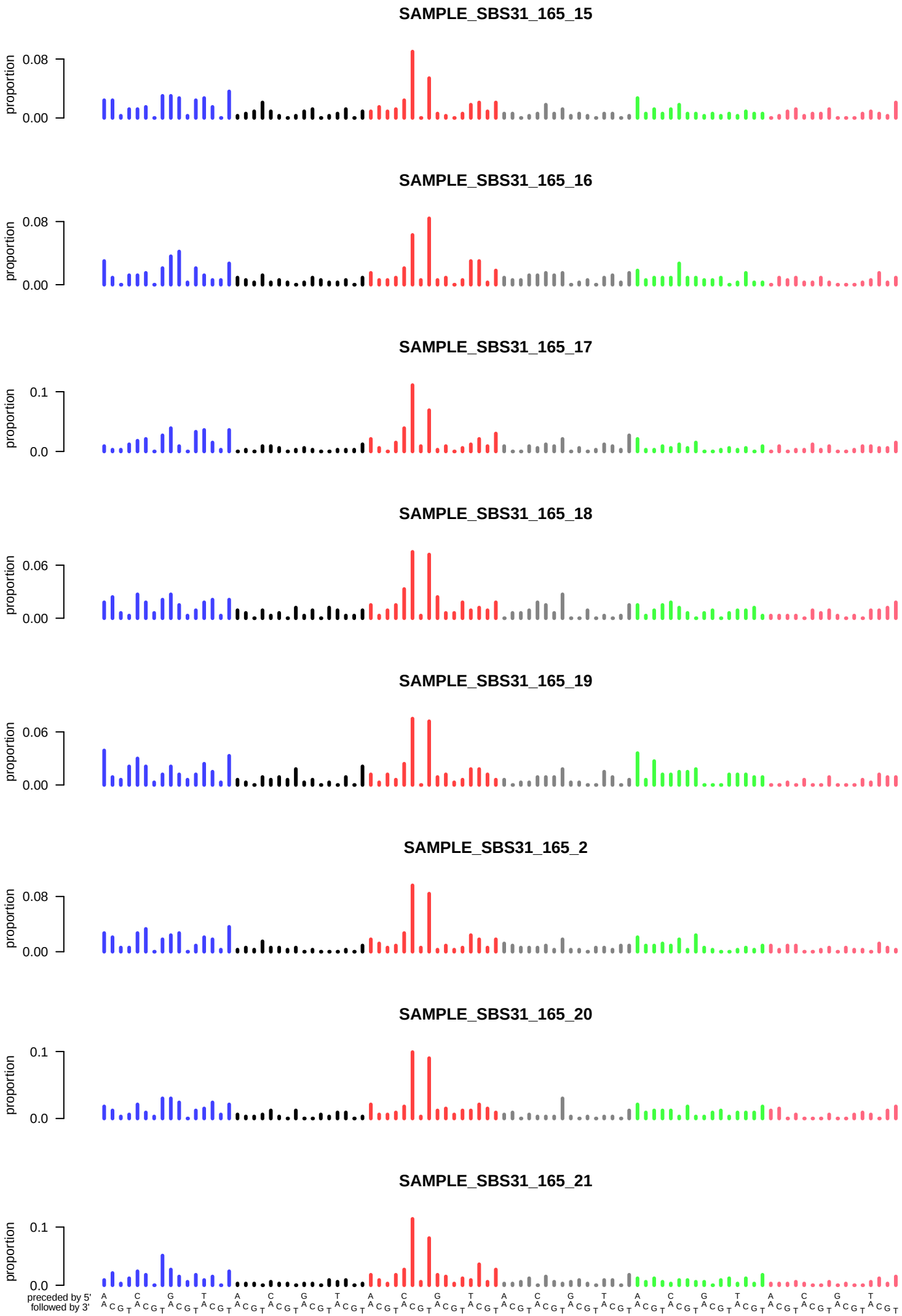
preceded by 5'
followed by 3'
A C G T A C G T A C G T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SAMPLE_SBS31_165_18
proportion
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SAMPLE_SBS31_165_19
proportion
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0.00
SAMPLE_SBS31_165_2
proportion
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SAMPLE_SBS31_165_20
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SAMPLE_SBS31_165_21
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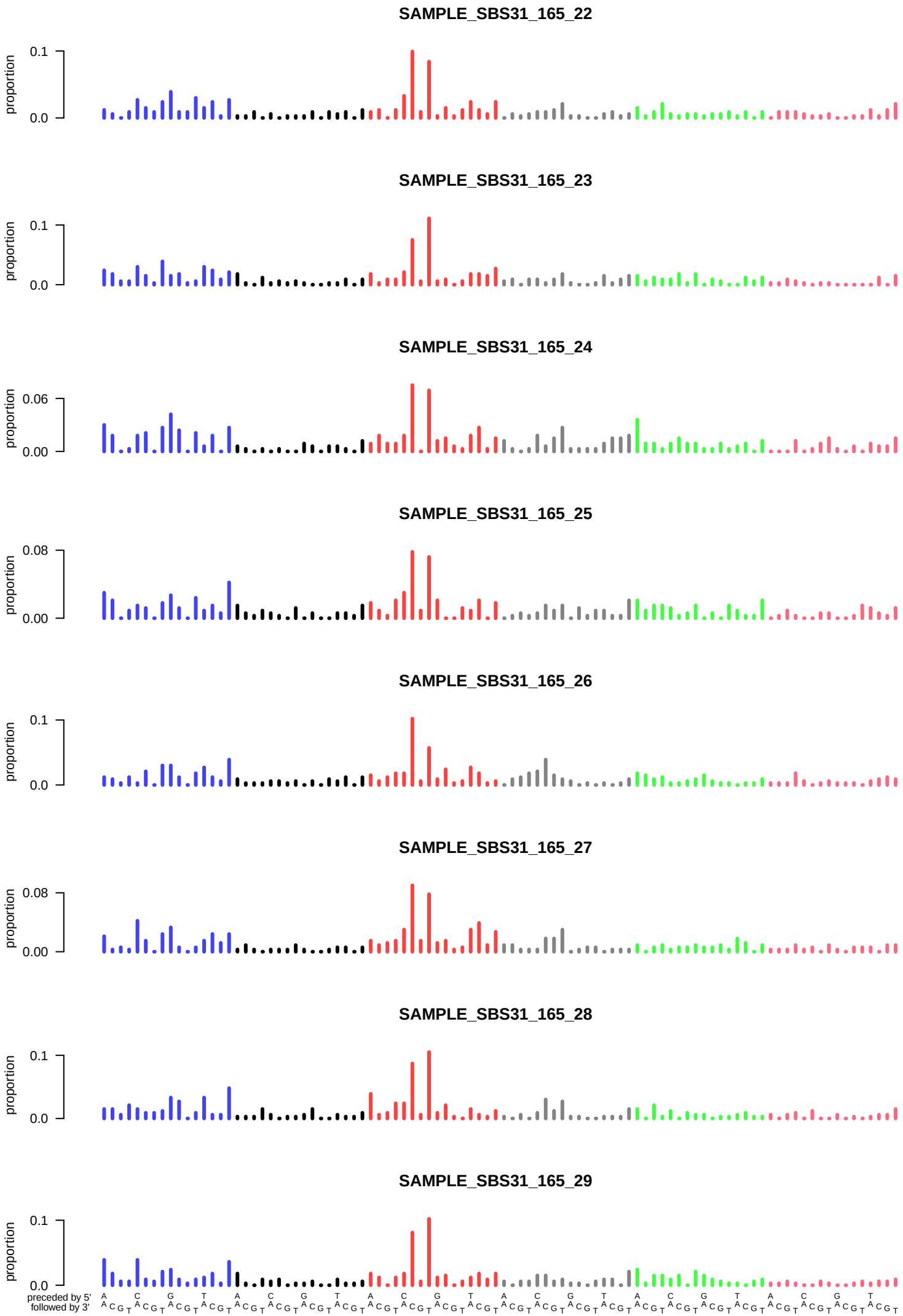
preceded by 5'
followed by 3'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SAMPLE_SBS31_165_25
proportion
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SAMPLE_SBS31_165_26
proportion
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SAMPLE_SBS31_165_27
proportion
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0.00
SAMPLE_SBS31_165_28
proportion
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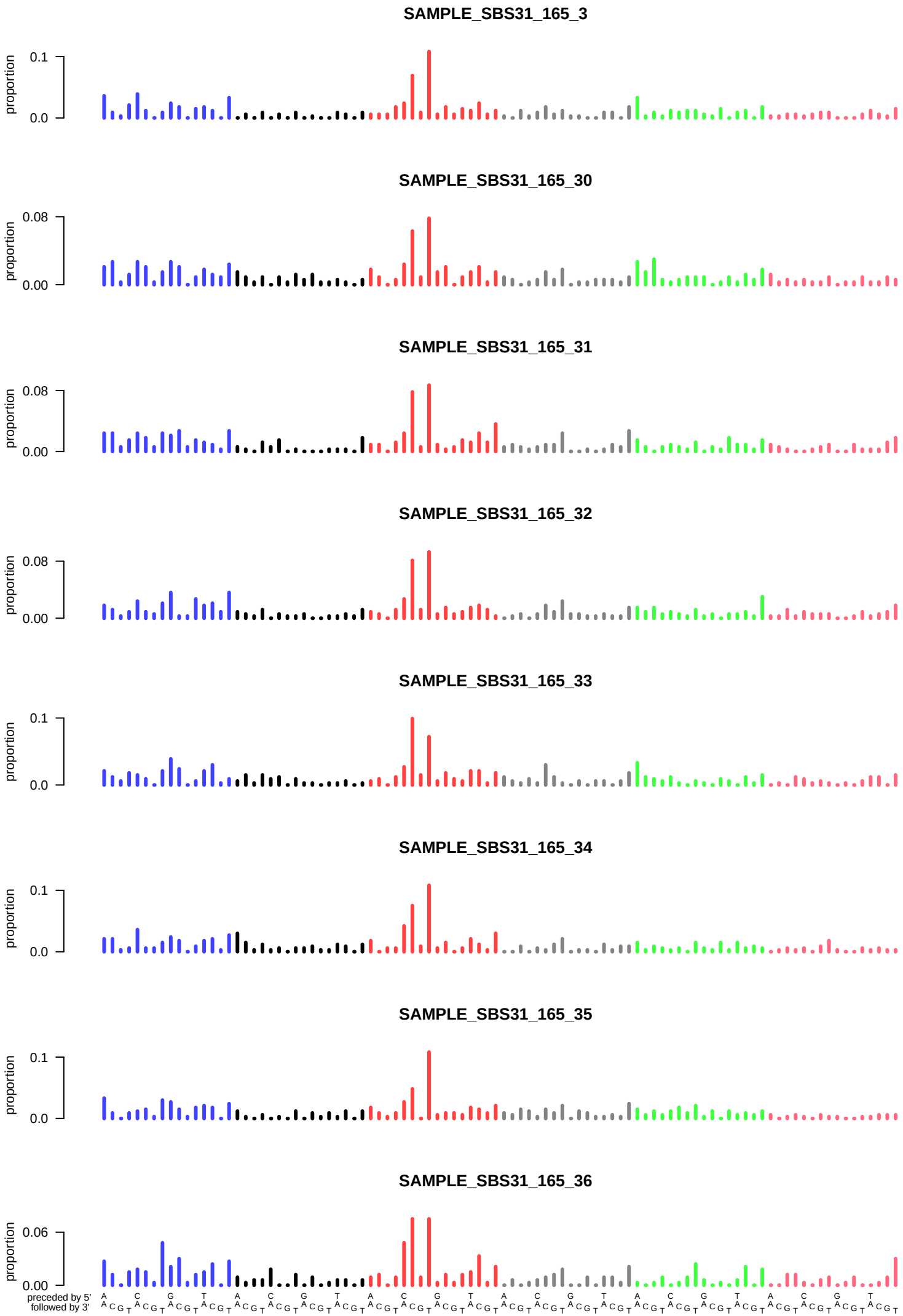
preceded by 5'
followed by 3'
A C G T A C G T A C G T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SAMPLE_SBS31_165_32
proportion
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SAMPLE_SBS31_165_33
proportion
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SAMPLE_SBS31_165_34
proportion
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SAMPLE_SBS31_165_35
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SAMPLE_SBS31_165_36
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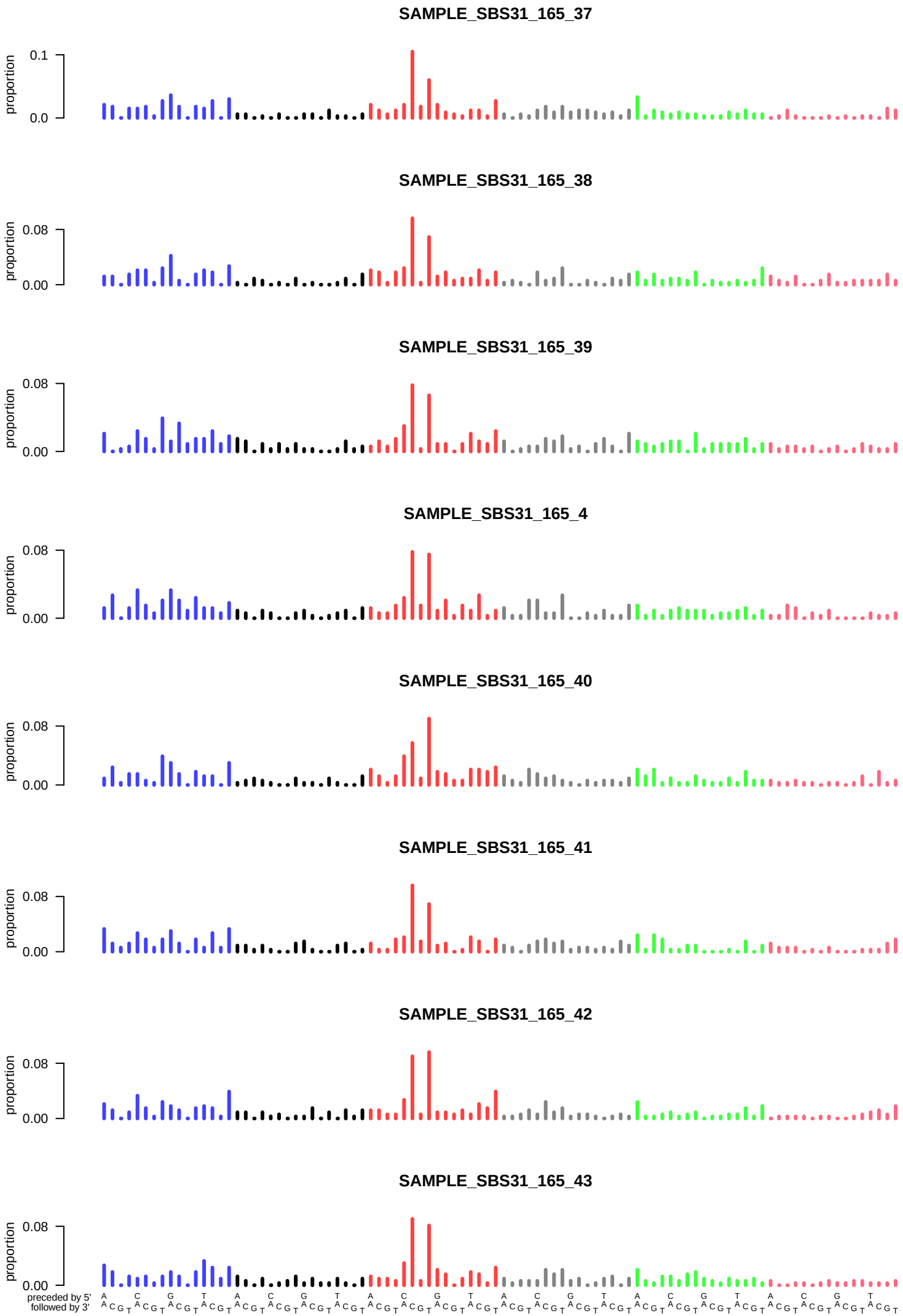
preceded by 5'
followed by 3'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SAMPLE_SBS31_165_4
SAMPLE_SBS31_165_40
SAMPLE_SBS31_165_41
SAMPLE_SBS31_165_42
SAMPLE_SBS31_165_43
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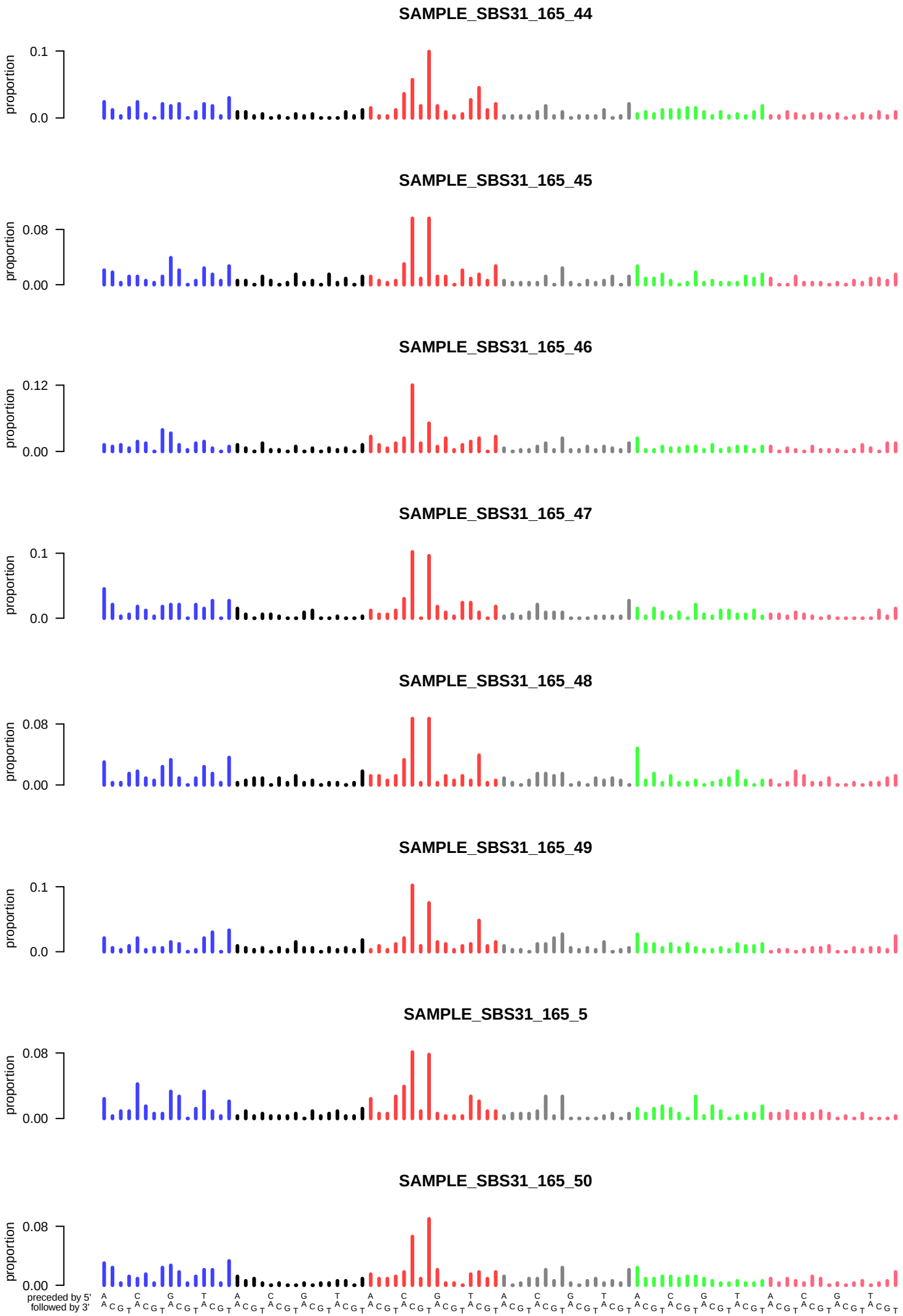
0.08
0.00
preceded by 5'
followed by 3'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SAMPLE_SBS31_165_46
proportion
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SAMPLE_SBS31_165_47
proportion
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SAMPLE_SBS31_165_48
proportion
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SAMPLE_SBS31_165_49
proportion
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SAMPLE_SBS31_165_5
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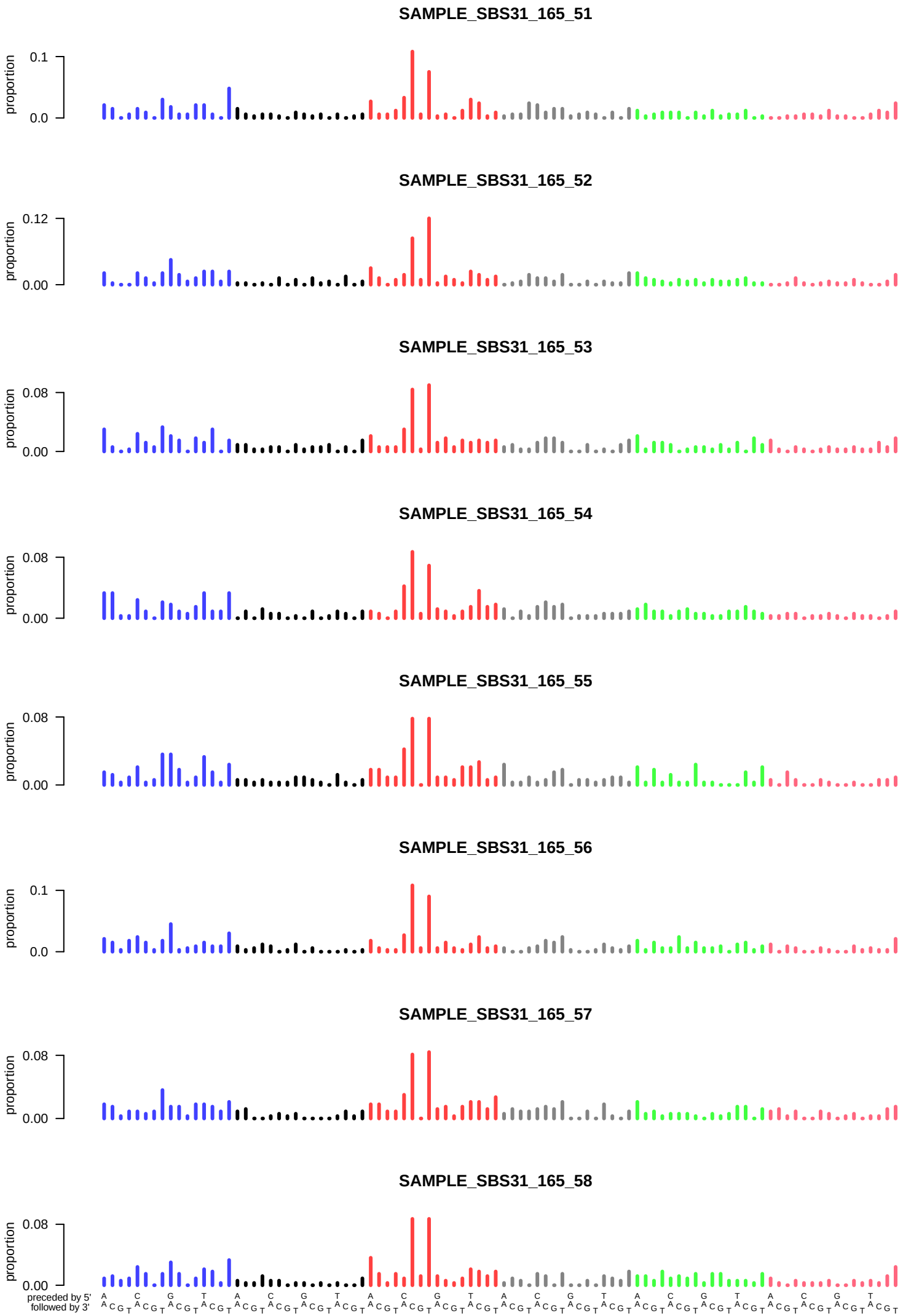
preceded by 5'
followed by 3'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SAMPLE_SBS31_165_54
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SAMPLE_SBS31_165_56
proportion
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SAMPLE_SBS31_165_57
proportion
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SAMPLE_SBS31_165_58
proportion
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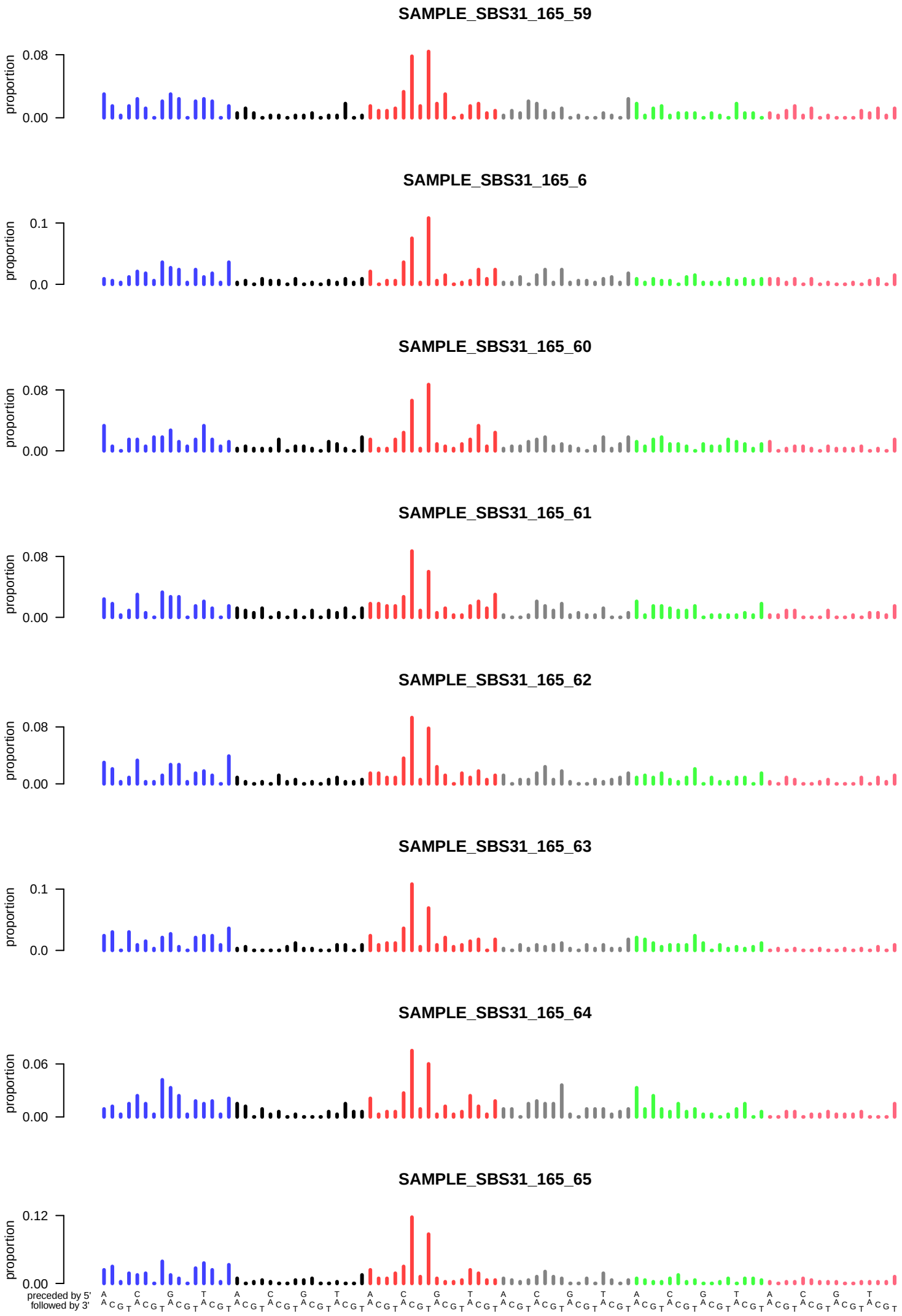
preceded by 5'
followed by 3'
A C G T A C G T A C G T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proportion
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SAMPLE_SBS31_165_61
proportion
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SAMPLE_SBS31_165_62
proportion
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SAMPLE_SBS31_165_63
proportion
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SAMPLE_SBS31_165_64
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SAMPLE_SBS31_165_65
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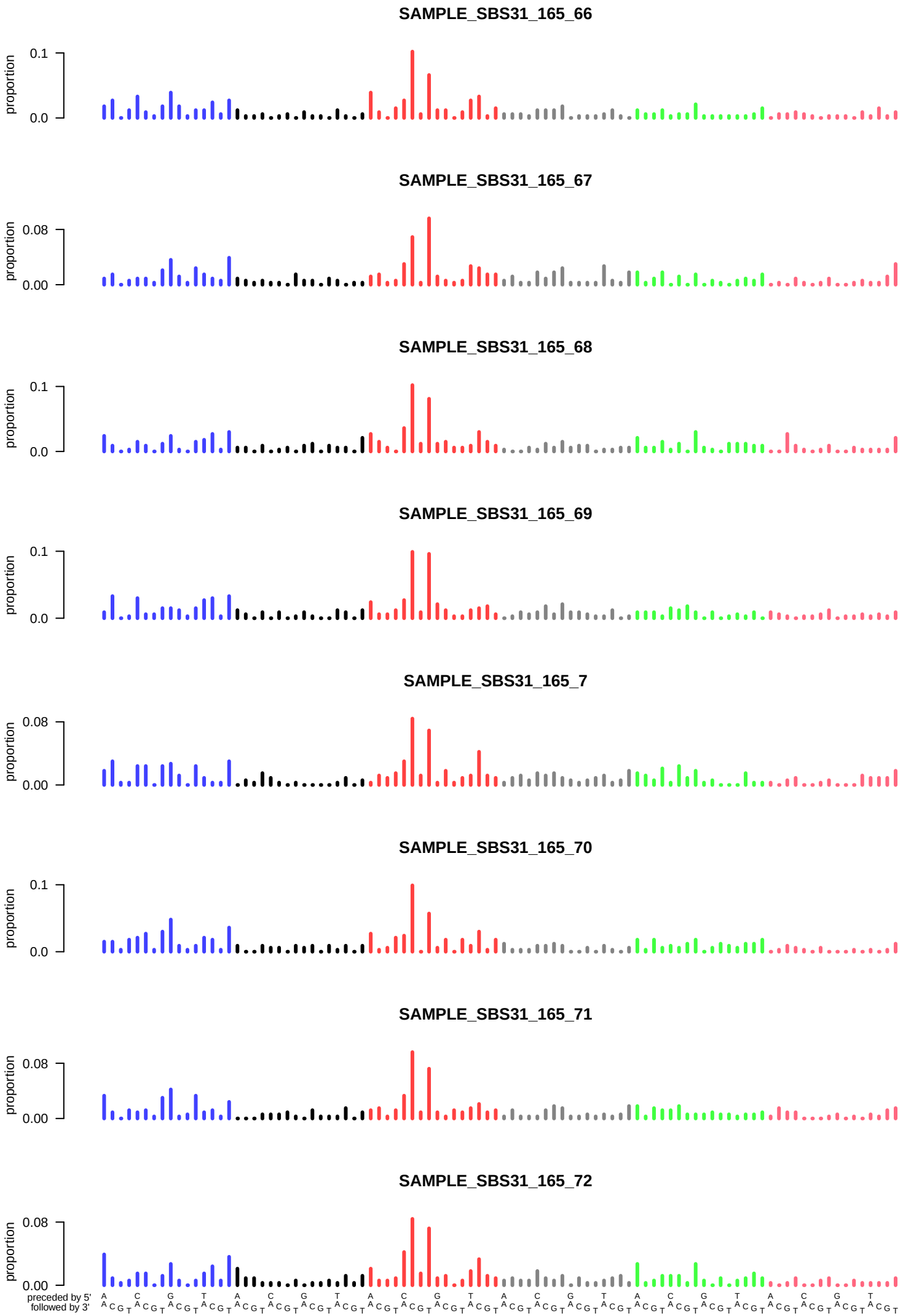
preceded by 5'
followed by 3'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SAMPLE_SBS31_165_69
proportion
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SAMPLE_SBS31_165_7
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SAMPLE_SBS31_165_70
proportion
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SAMPLE_SBS31_165_71
proportion
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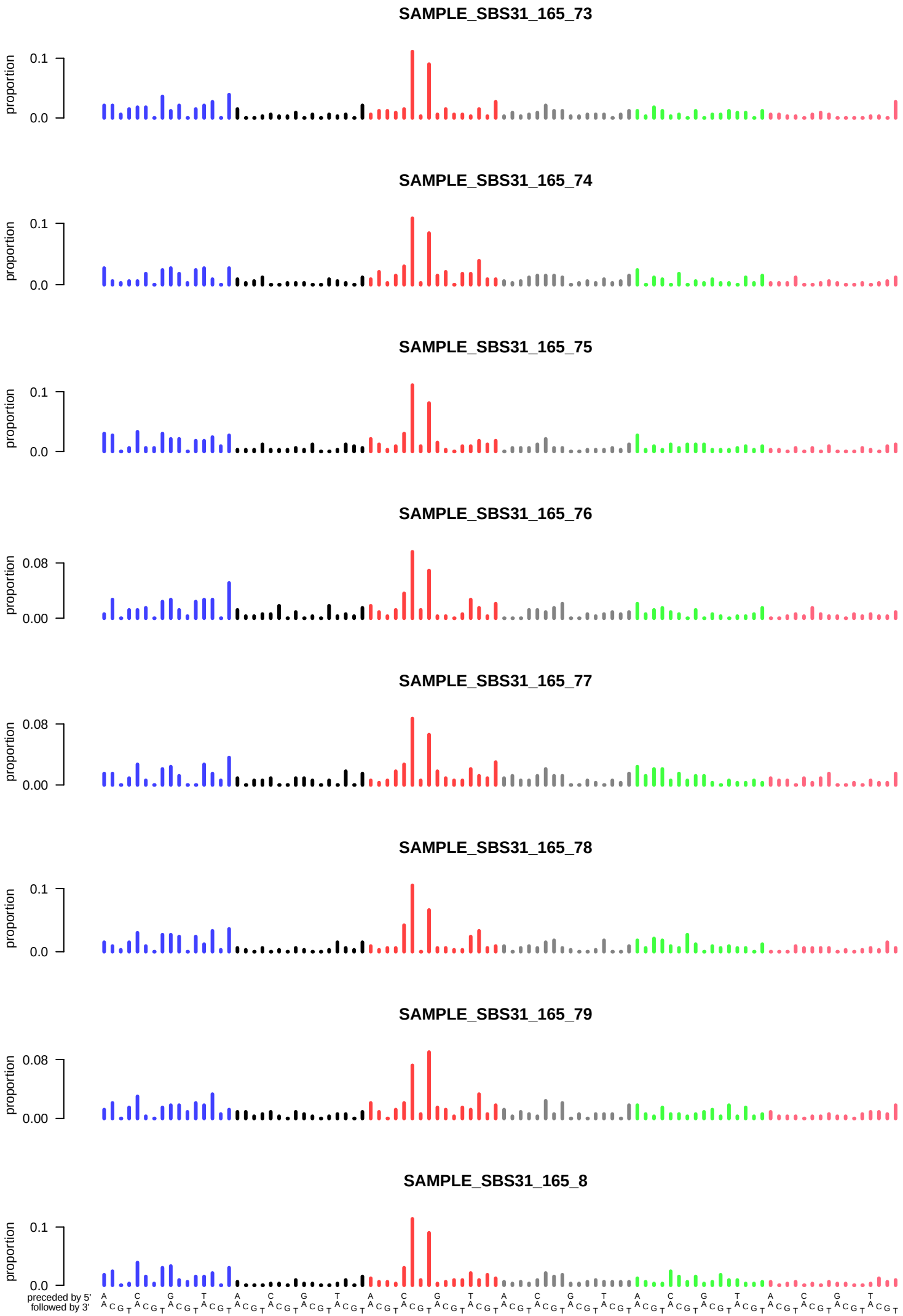
preceded by 5'
followed by 3'
A C G T A C G T A C G T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SAMPLE_SBS31_165_76
SAMPLE_SBS31_165_77
SAMPLE_SBS31_165_78
SAMPLE_SBS31_165_79
SAMPLE_SBS31_165_8
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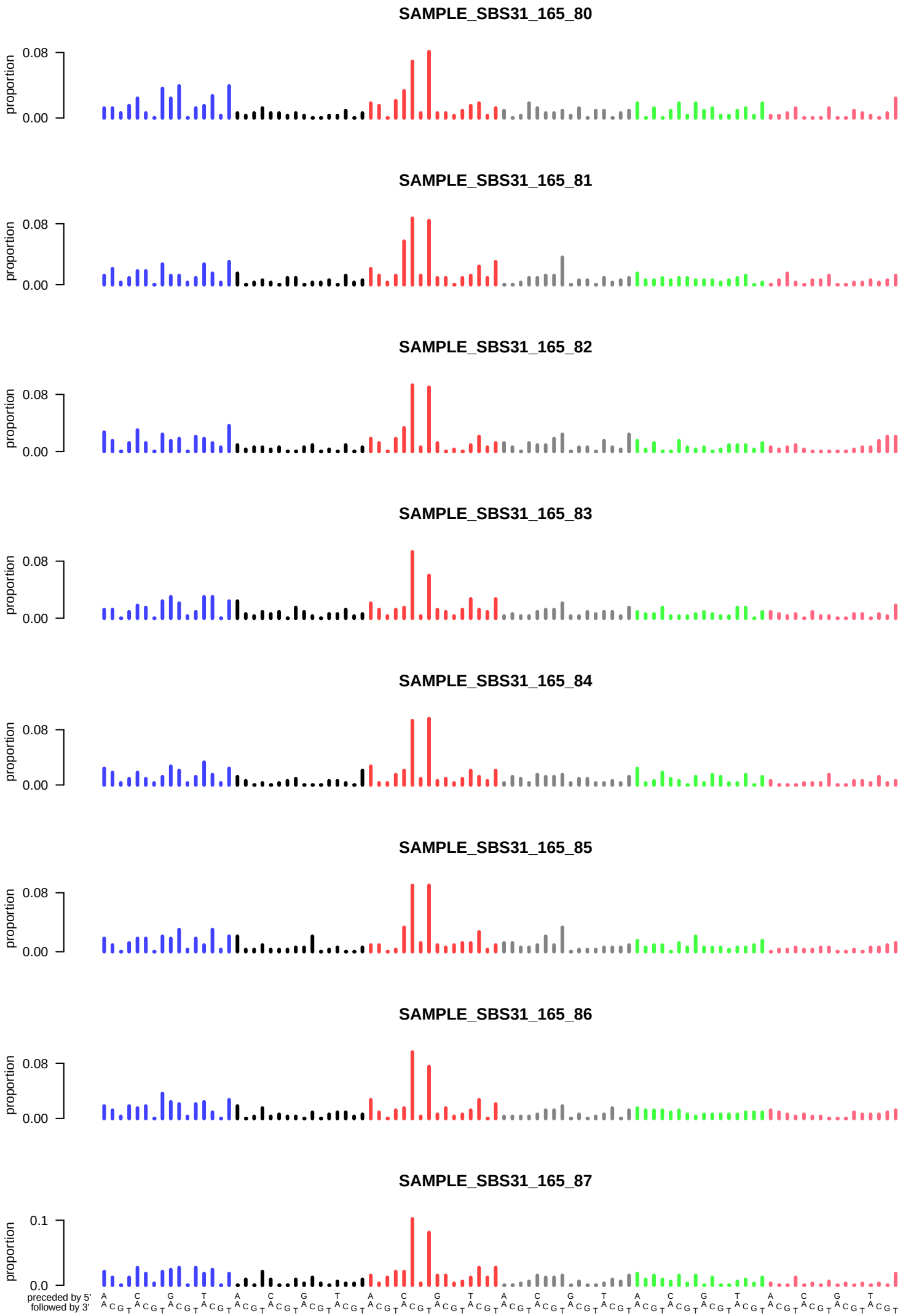
preceded by 5'
followed by 3'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SAMPLE_SBS31_165_84
SAMPLE_SBS31_165_85
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SAMPLE_SBS31_165_87
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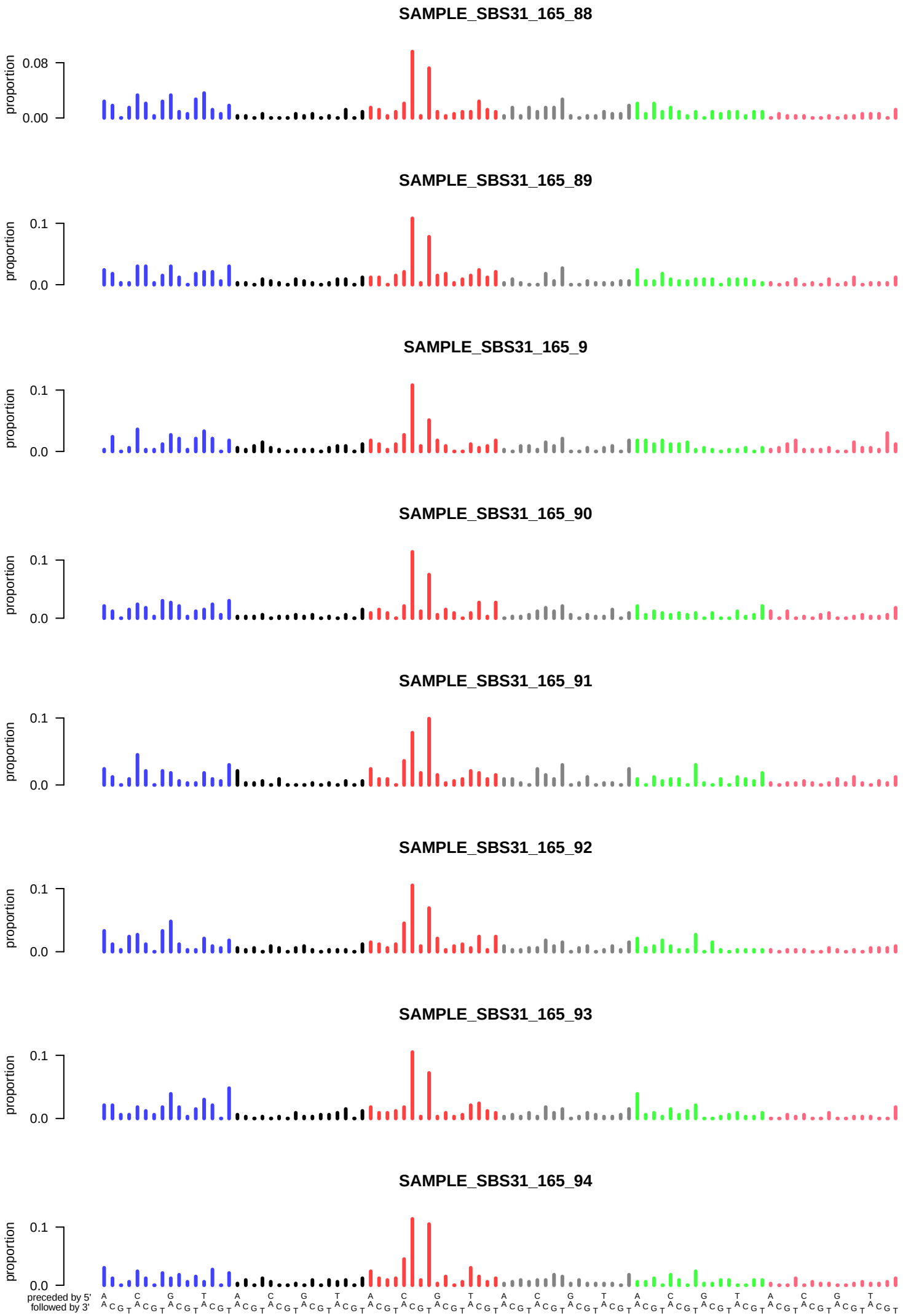
followed by 3'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proportion
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SAMPLE_SBS31_165_90
proportion
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SAMPLE_SBS31_165_91
proportion
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SAMPLE_SBS31_165_92
proportion
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SAMPLE_SBS31_165_93
proportion
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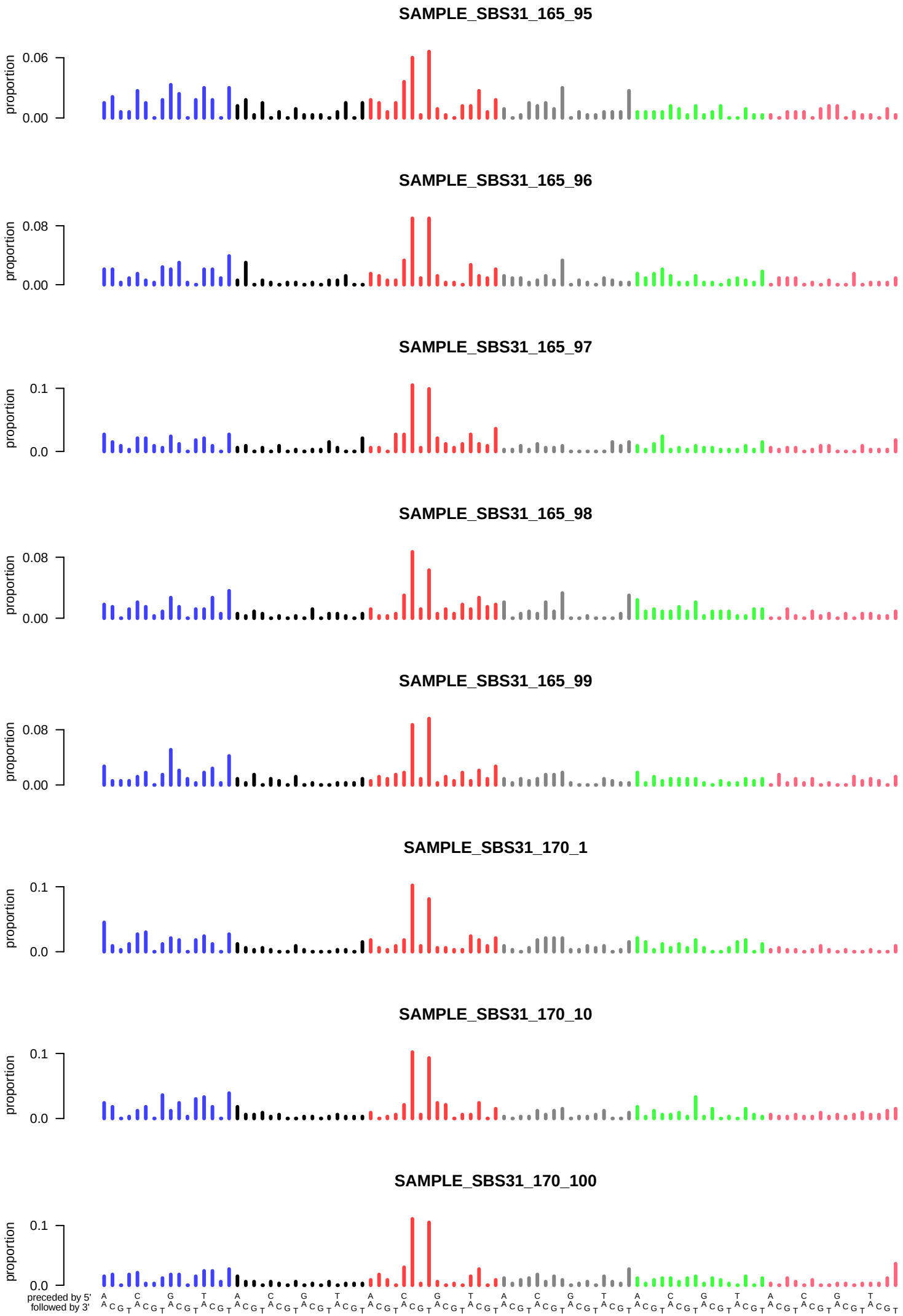
preceded by 5'
followed by 3'
A C G T A C G T A C G T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proportion
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proportion
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SAMPLE_SBS31_170_1
proportion
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SAMPLE_SBS31_170_10
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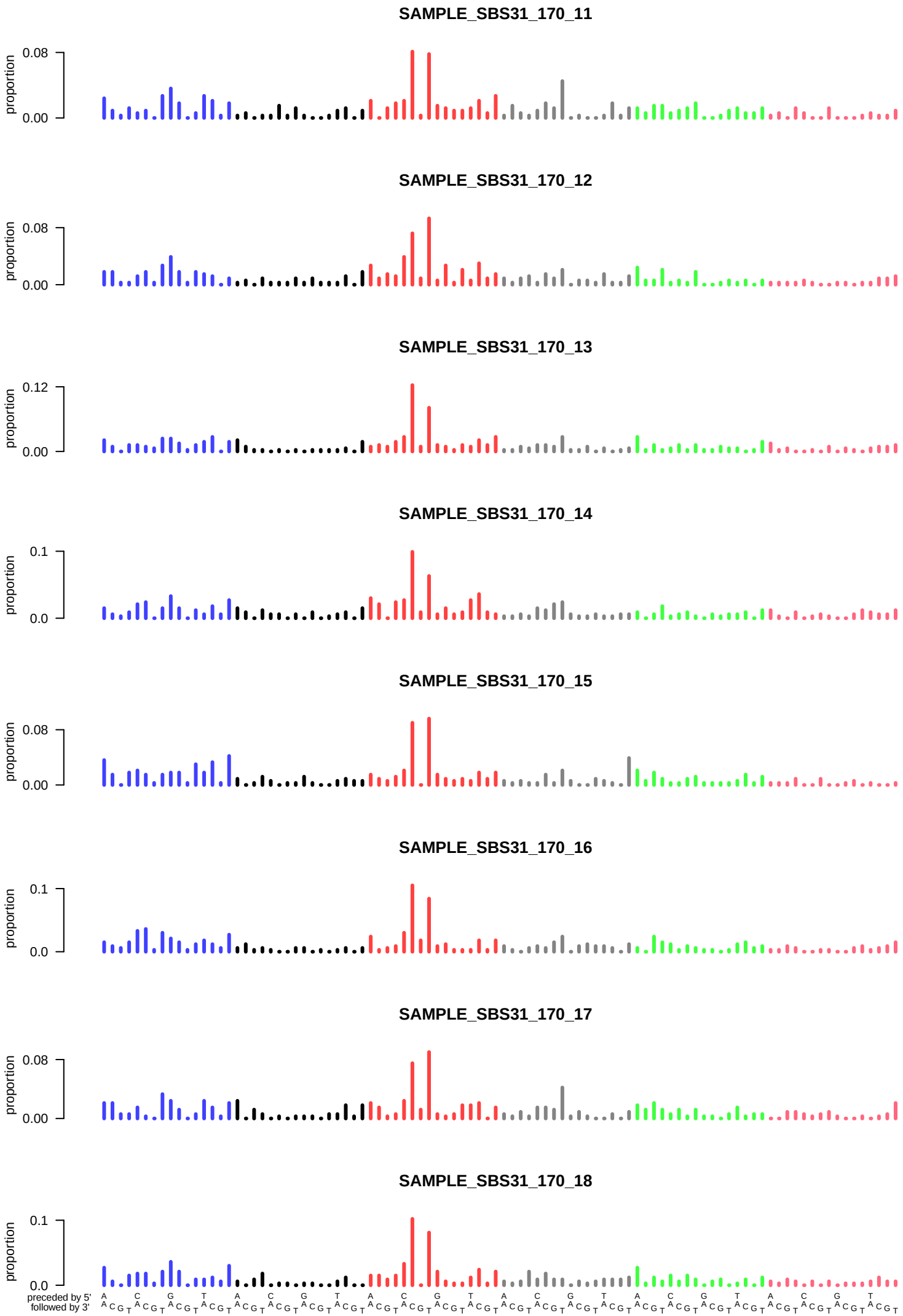
followed by 3'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SAMPLE_SBS31_170_14
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SAMPLE_SBS31_170_15
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SAMPLE_SBS31_170_16
proportion
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SAMPLE_SBS31_170_17
proportion
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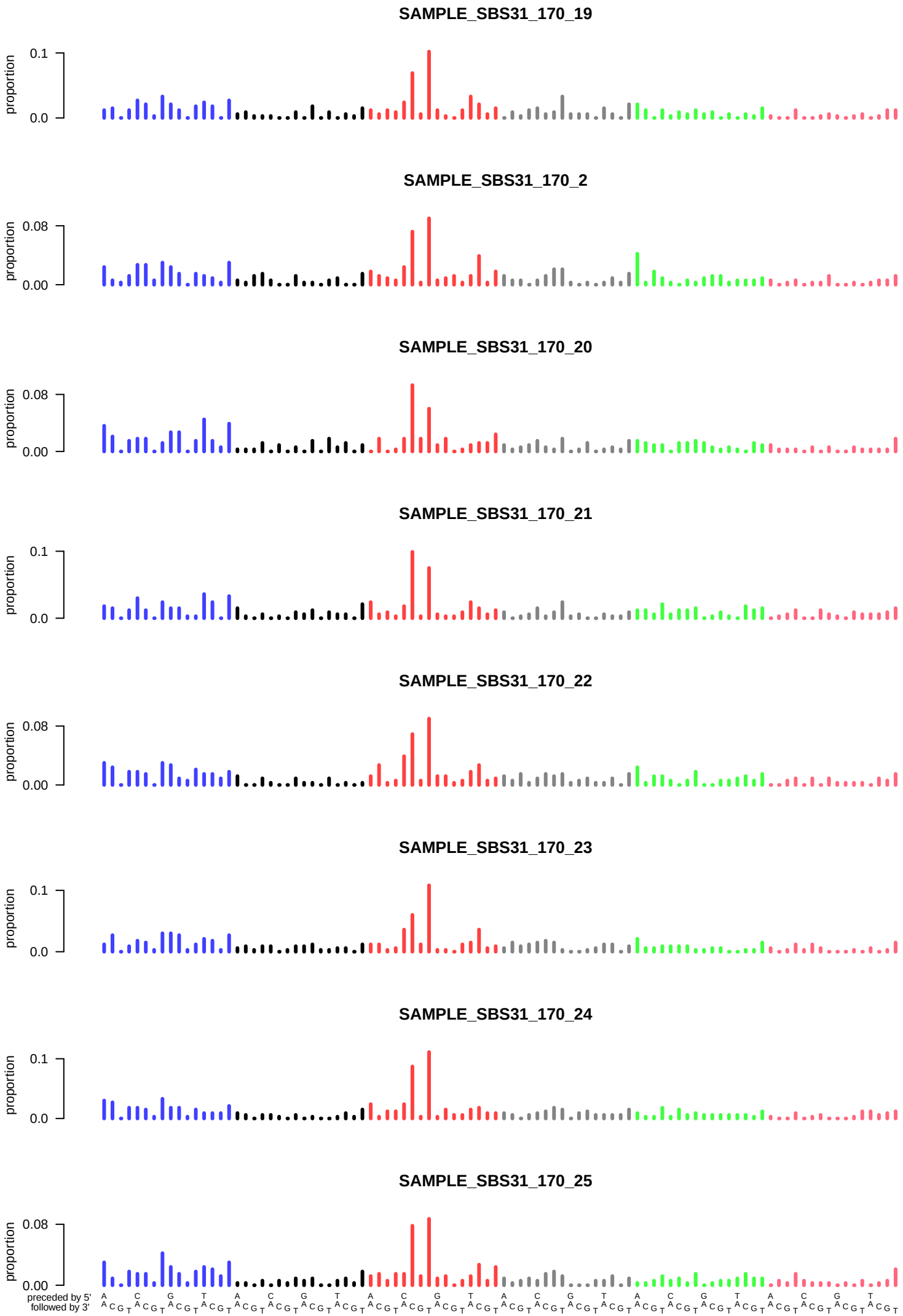
A C G T A C G T A C G T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SAMPLE_SBS31_170_20
SAMPLE_SBS31_170_21
SAMPLE_SBS31_170_22
SAMPLE_SBS31_170_23
SAMPLE_SBS31_170_24
SAMPLE_SBS31_170_25
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0.0
0.08
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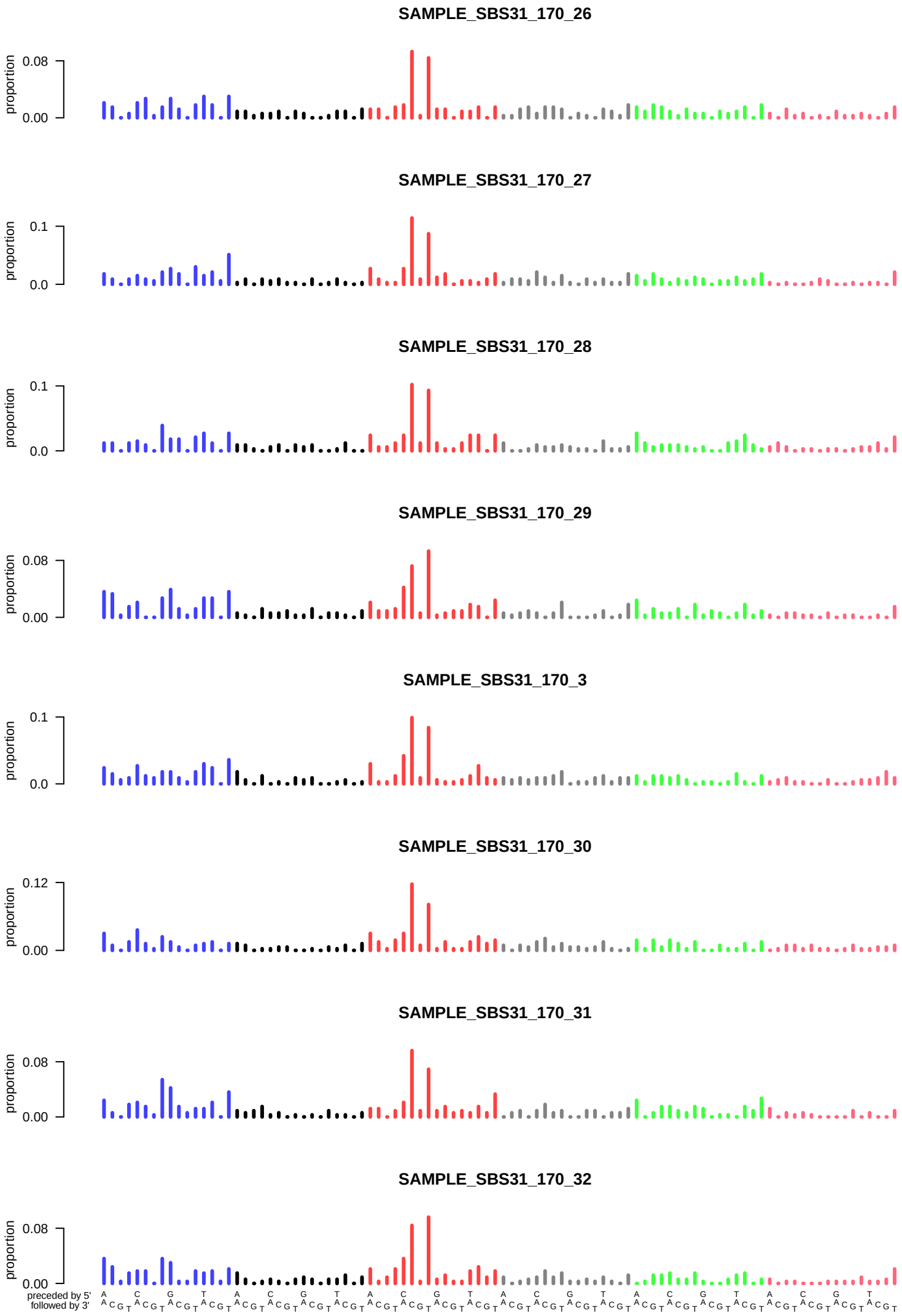
preceded by 5'
followed by 3'
A C G T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SAMPLE_SBS31_170_28
proportion
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proportion
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SAMPLE_SBS31_170_3
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SAMPLE_SBS31_170_30
proportion
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SAMPLE_SBS31_170_31
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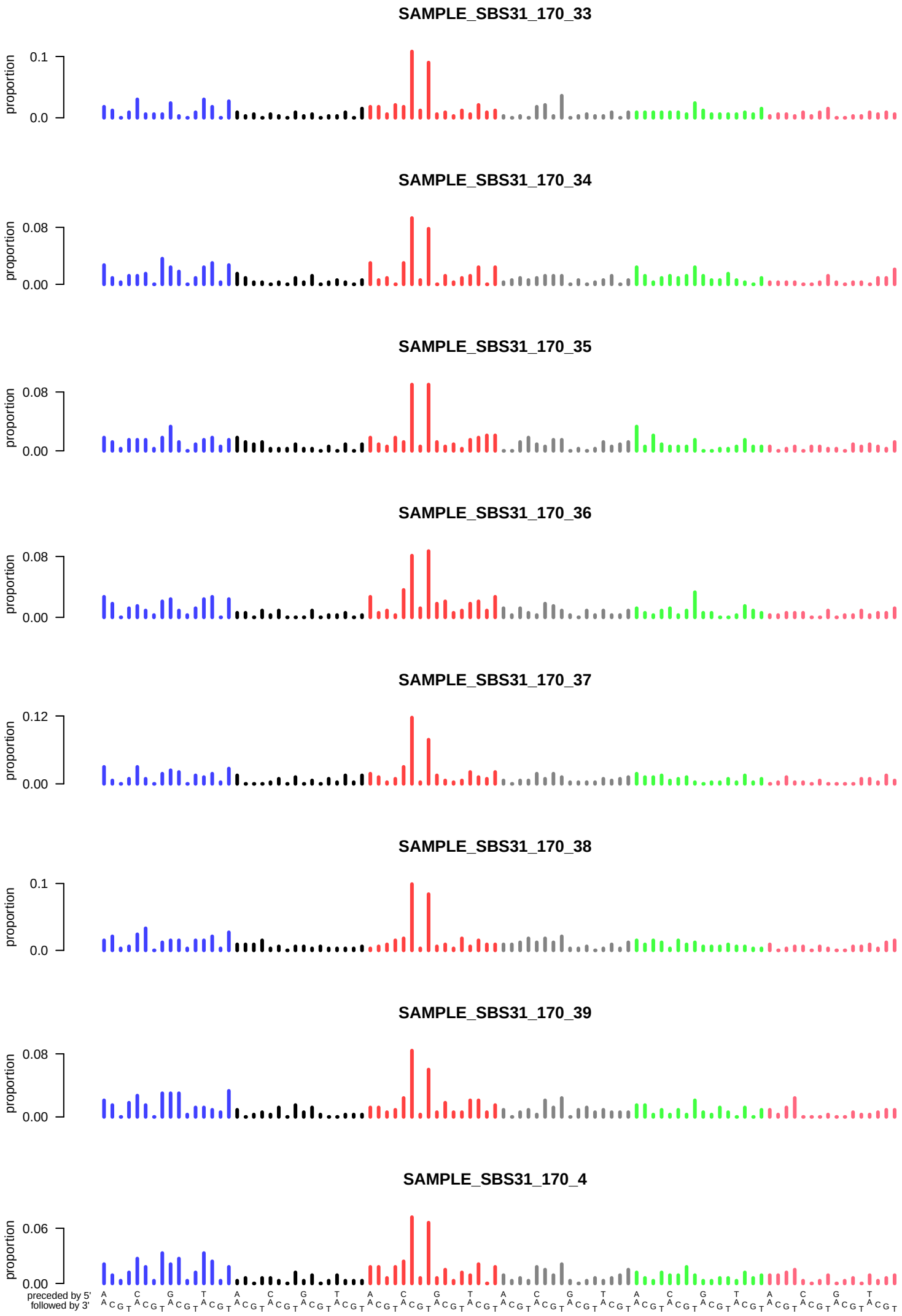
followed by 3'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SAMPLE_SBS31_170_39
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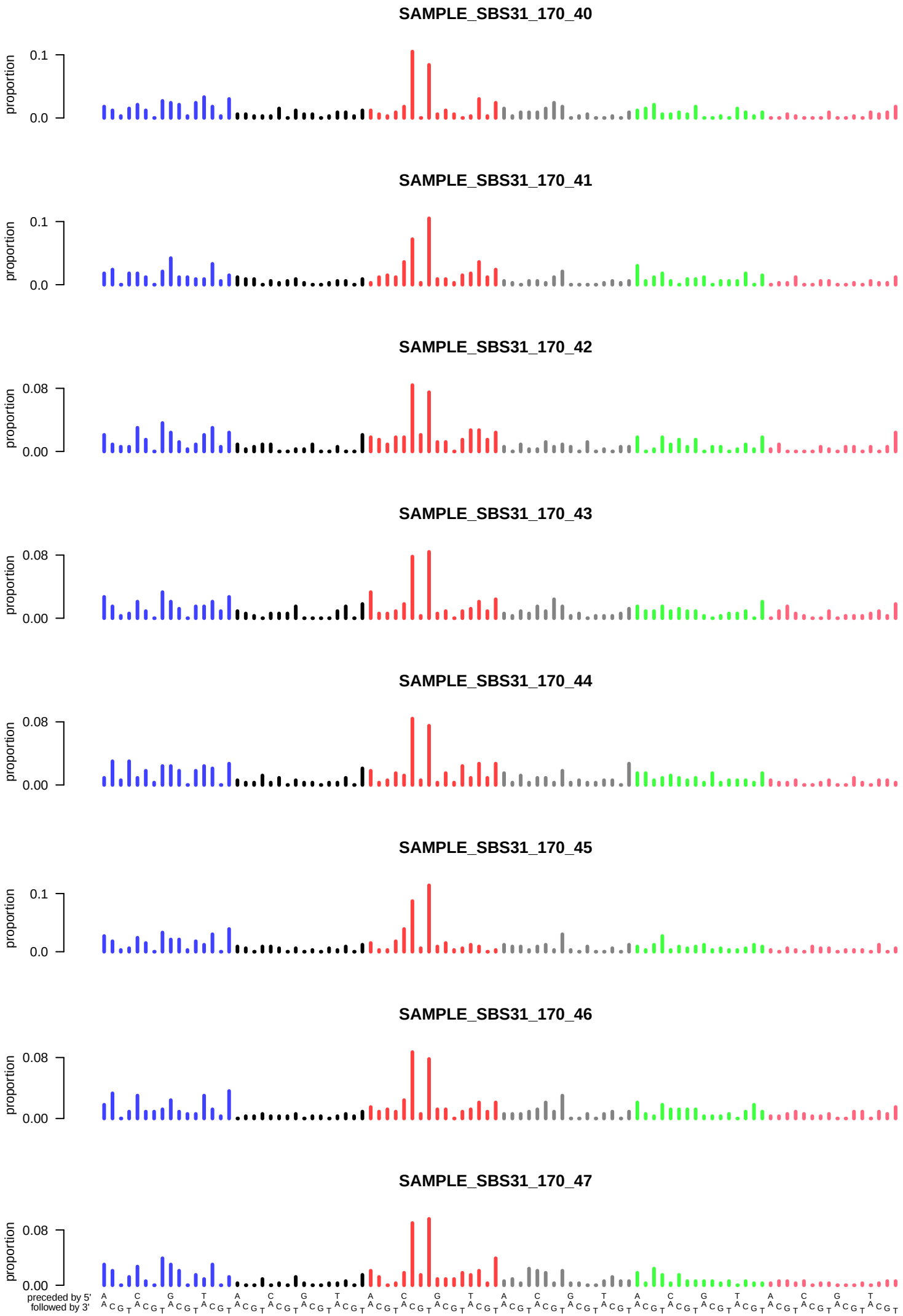
followed by 3'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SAMPLE_SBS31_170_43
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SAMPLE_SBS31_170_45
proportion
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SAMPLE_SBS31_170_46
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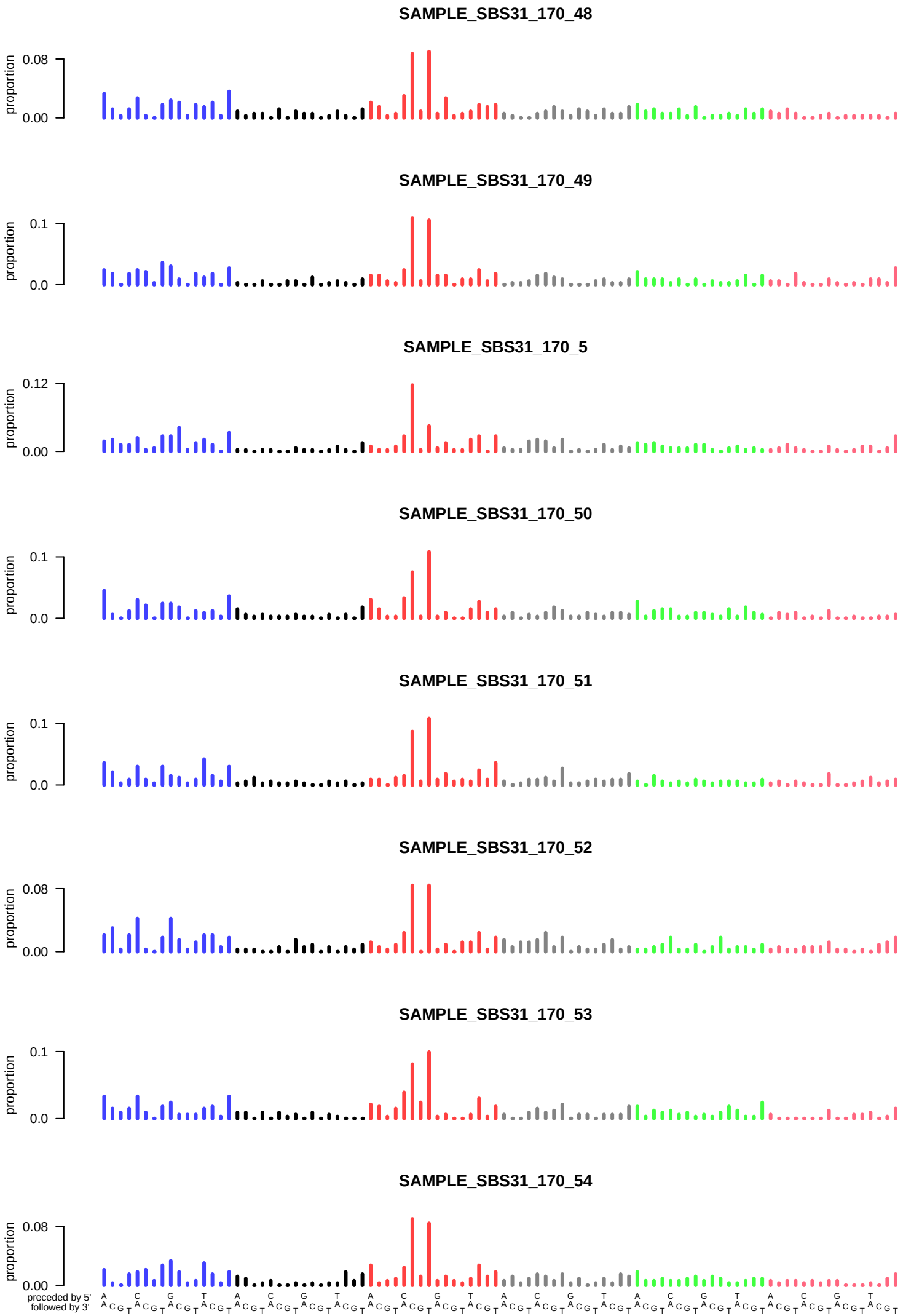
preceded by 5'
followed by 3'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SAMPLE_SBS31_170_50
proportion
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SAMPLE_SBS31_170_51
proportion
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SAMPLE_SBS31_170_52
proportion
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SAMPLE_SBS31_170_53
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SAMPLE_SBS31_170_54
proportion
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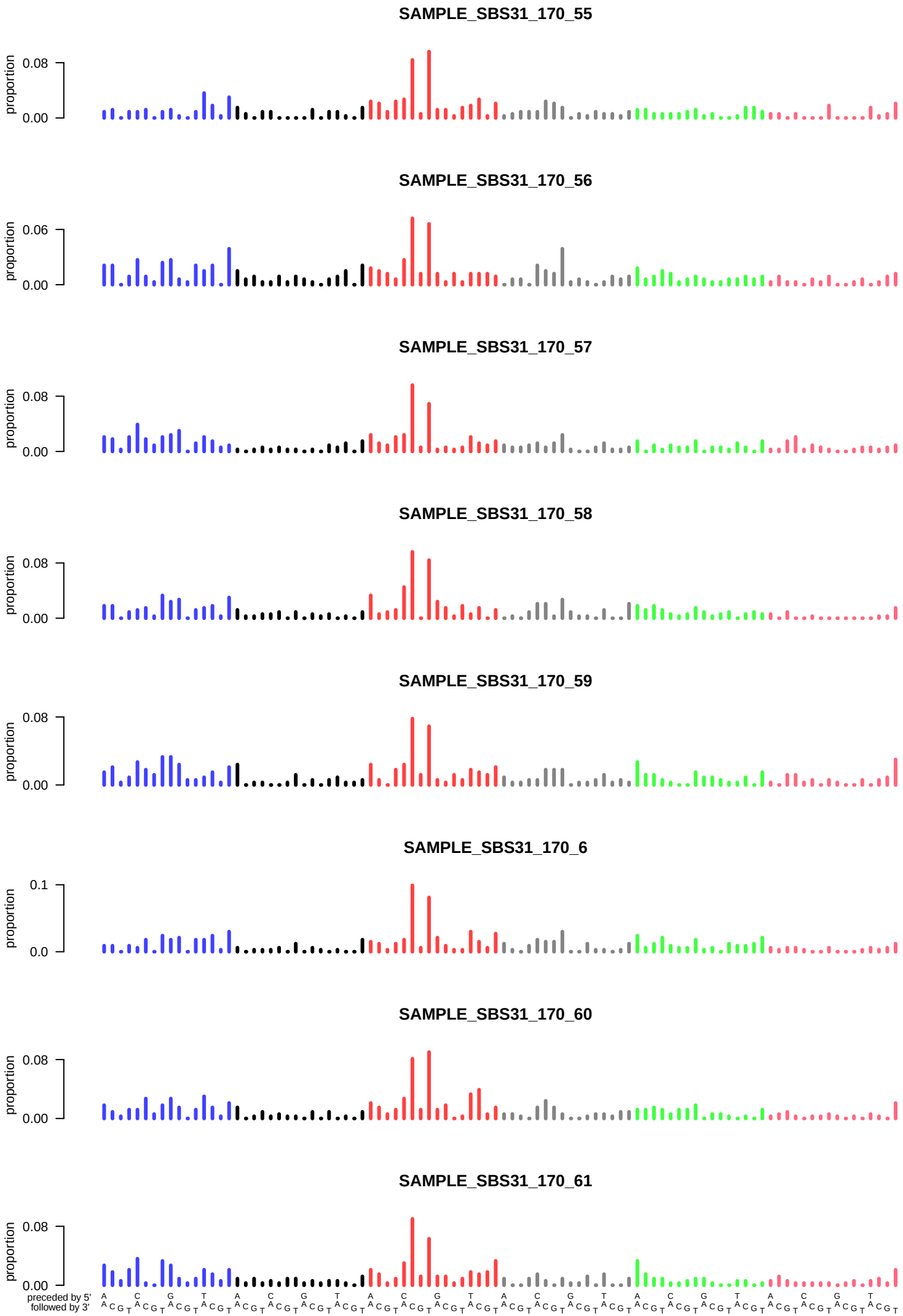
preceded by 5'
followed by 3'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SAMPLE_SBS31_170_60
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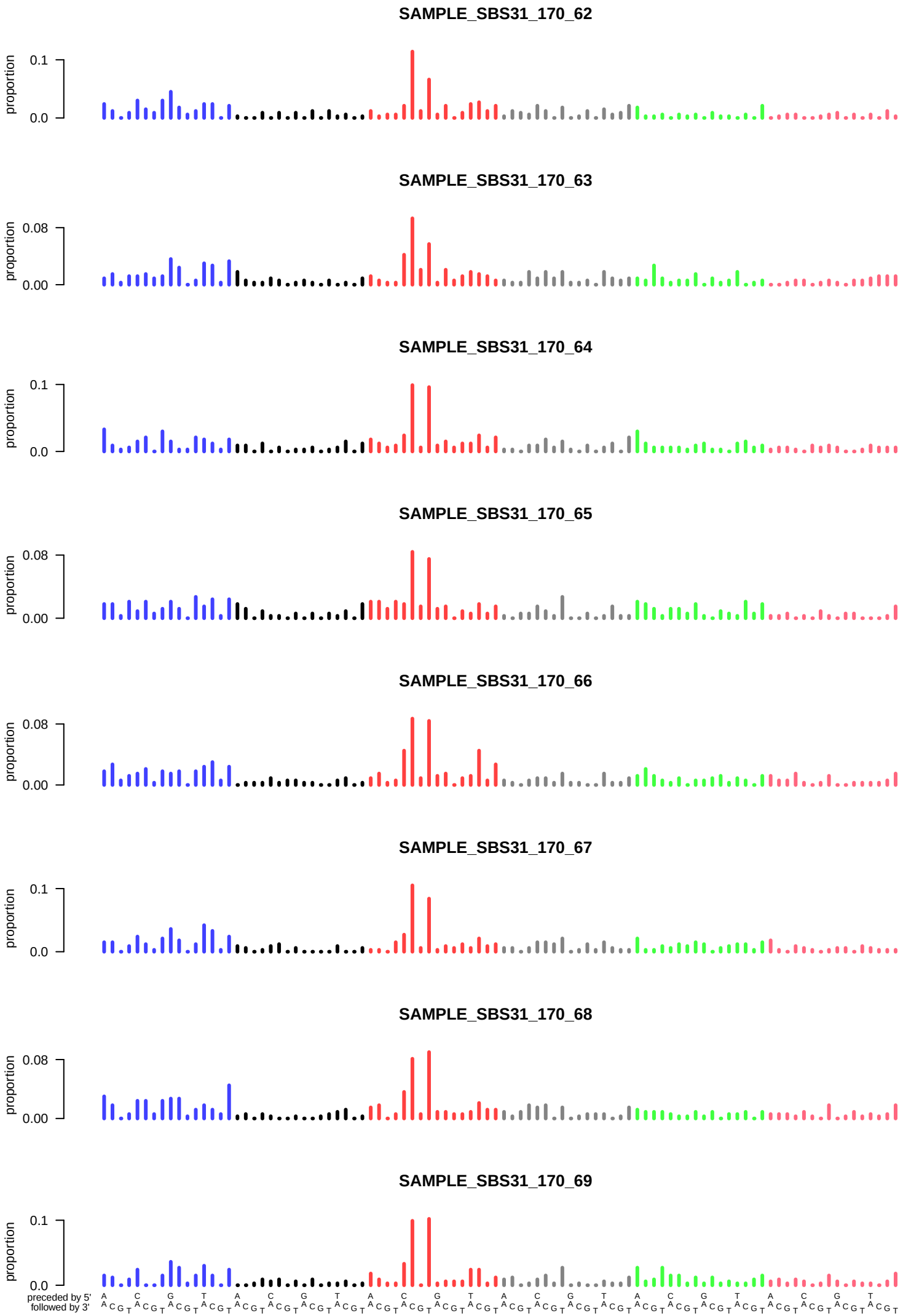
followed by 3'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proportion
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proportion
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SAMPLE_SBS31_170_68
proportion
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SAMPLE_SBS31_170_69
proportion
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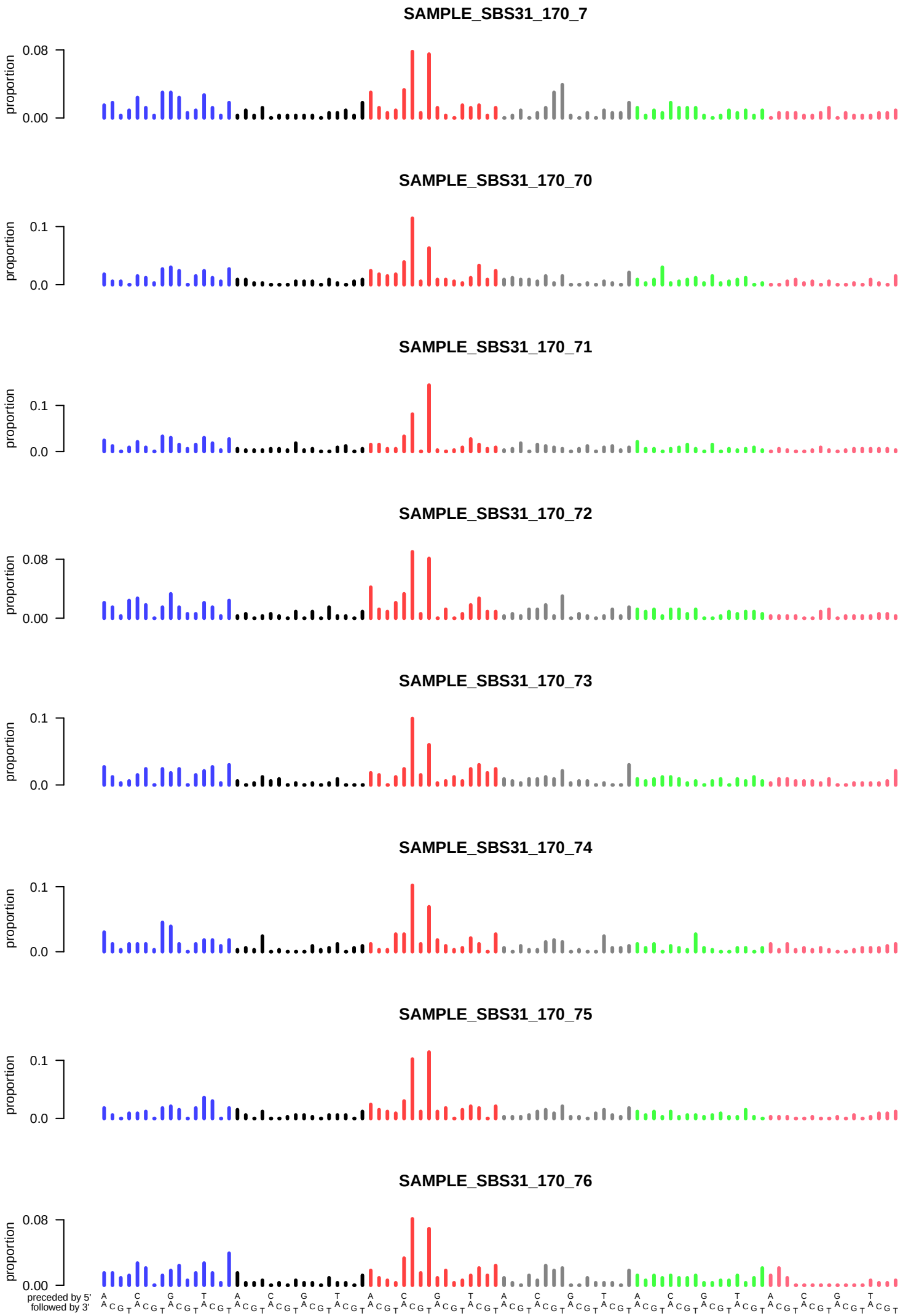
0.0
preceded by 5'
followed by 3'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SAMPLE_SBS31_170_74
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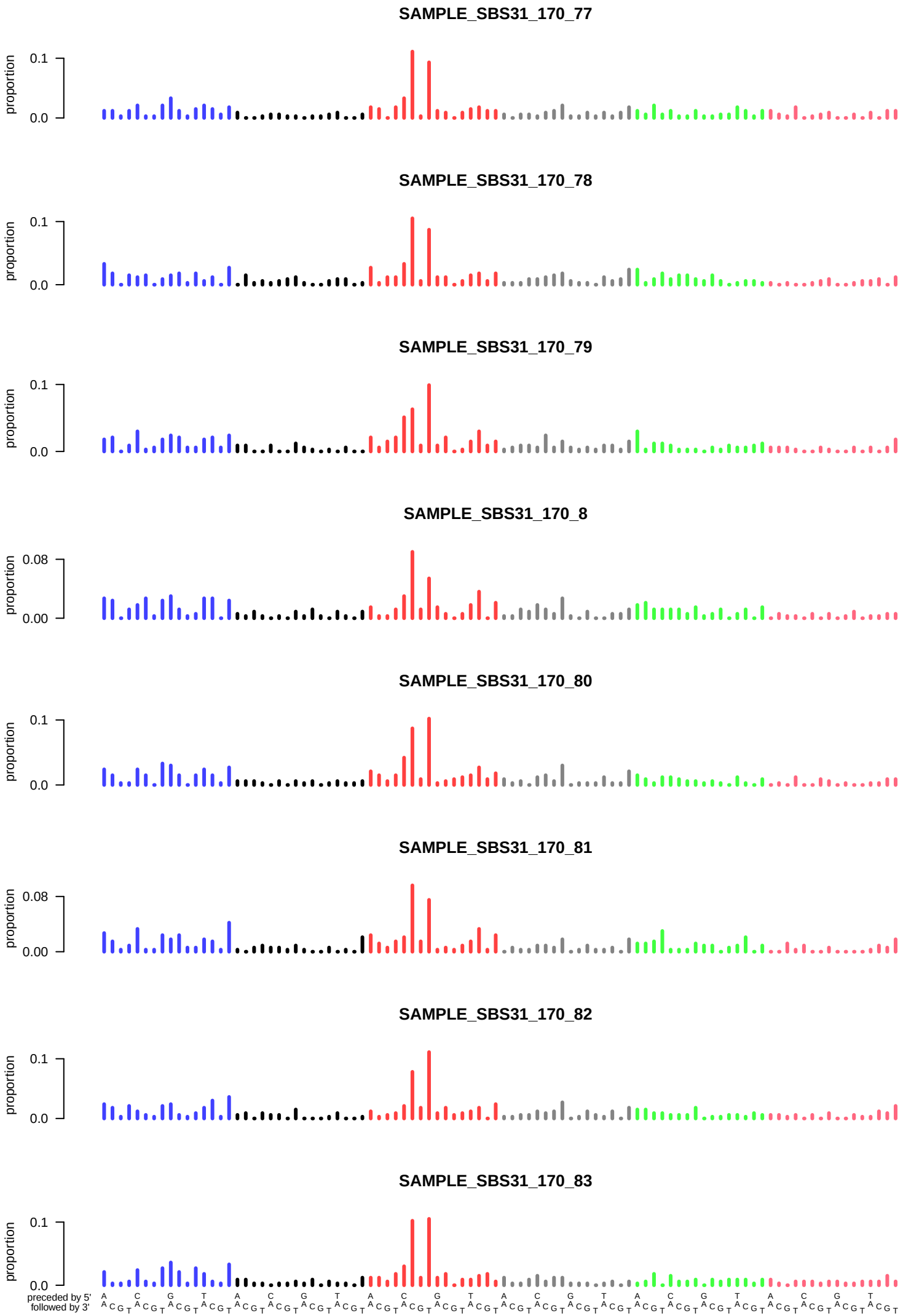
followed by 3'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SAMPLE_SBS31_170_80
SAMPLE_SBS31_170_81
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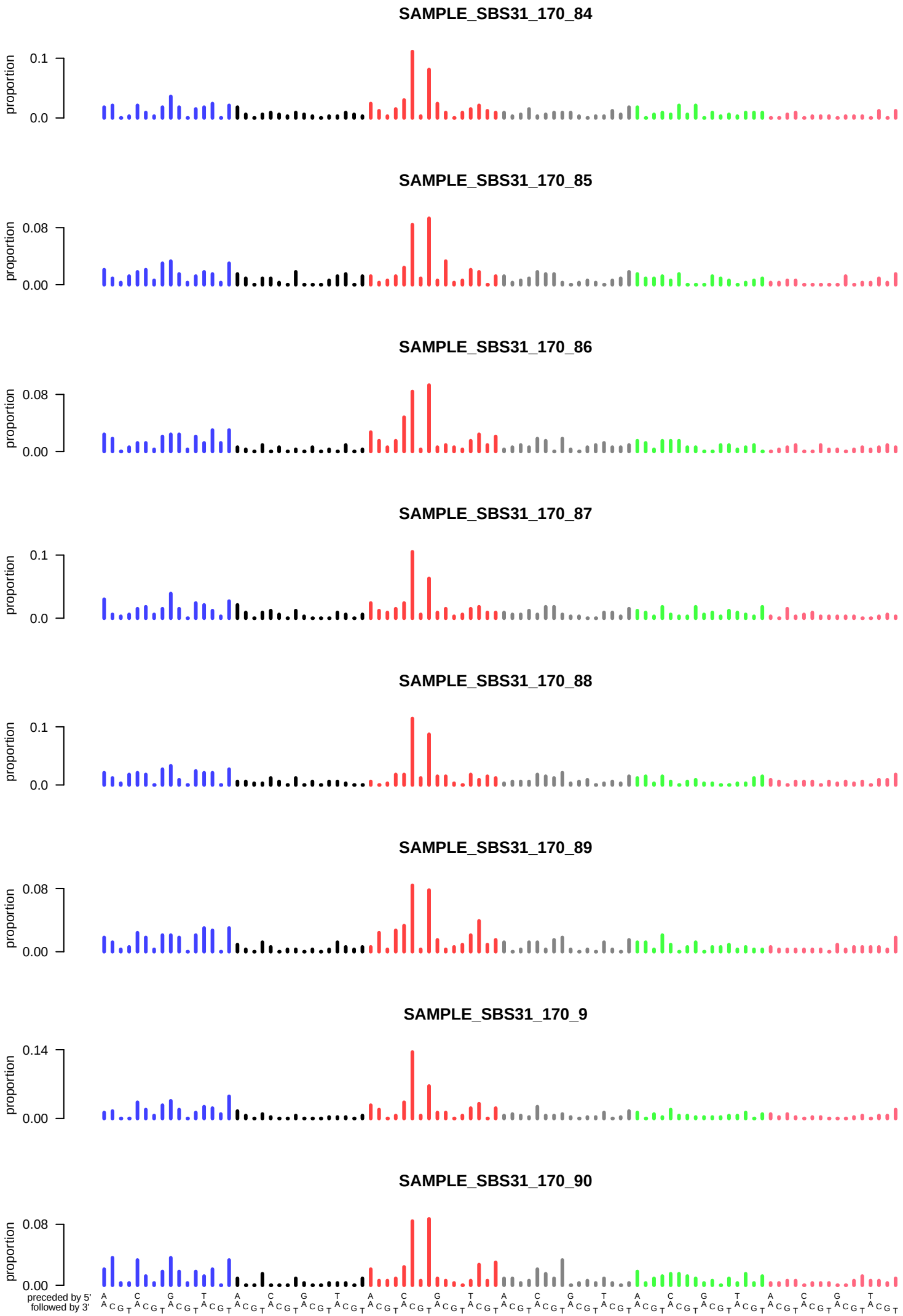
followed by 3'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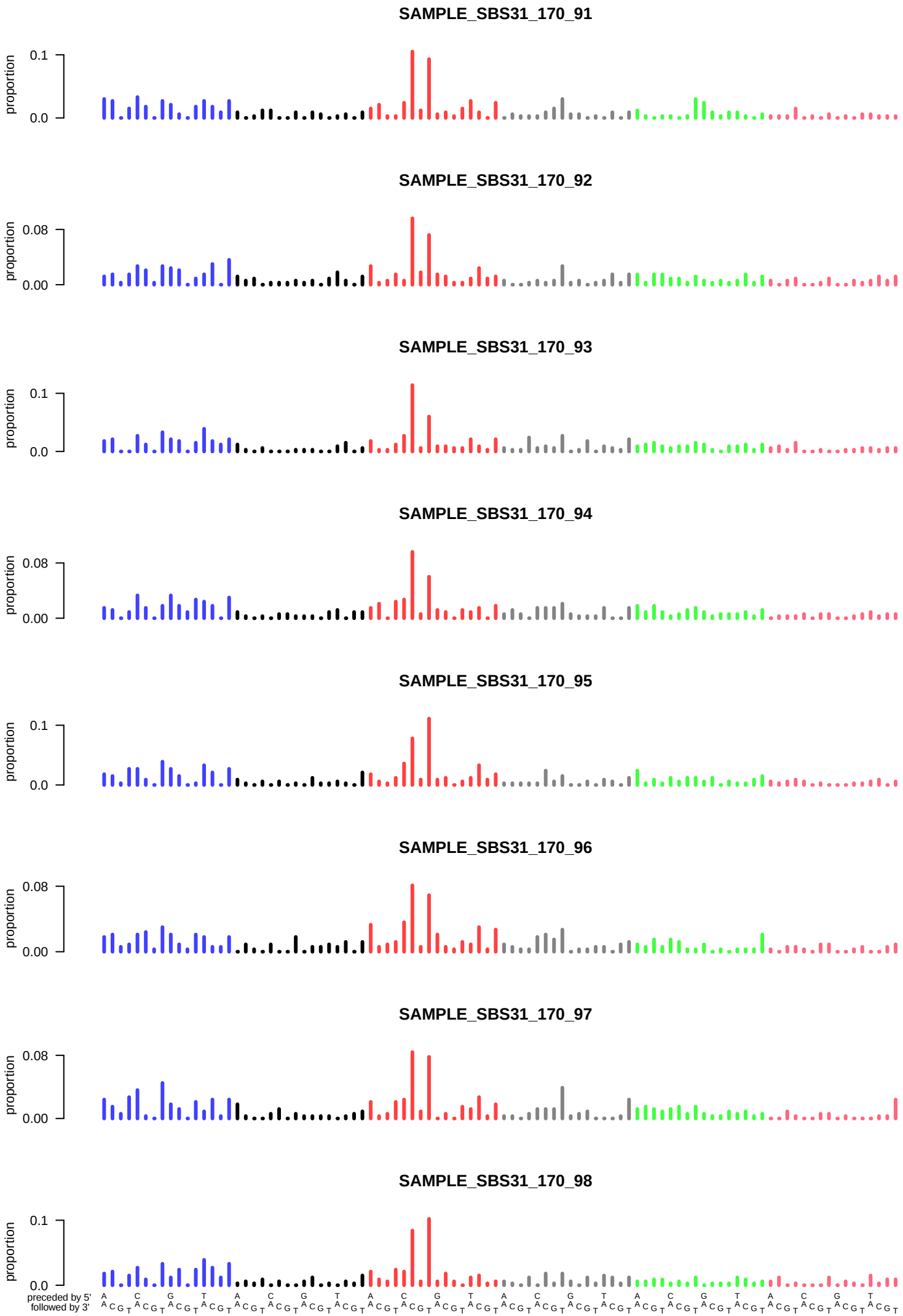
followed by 3'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proportion
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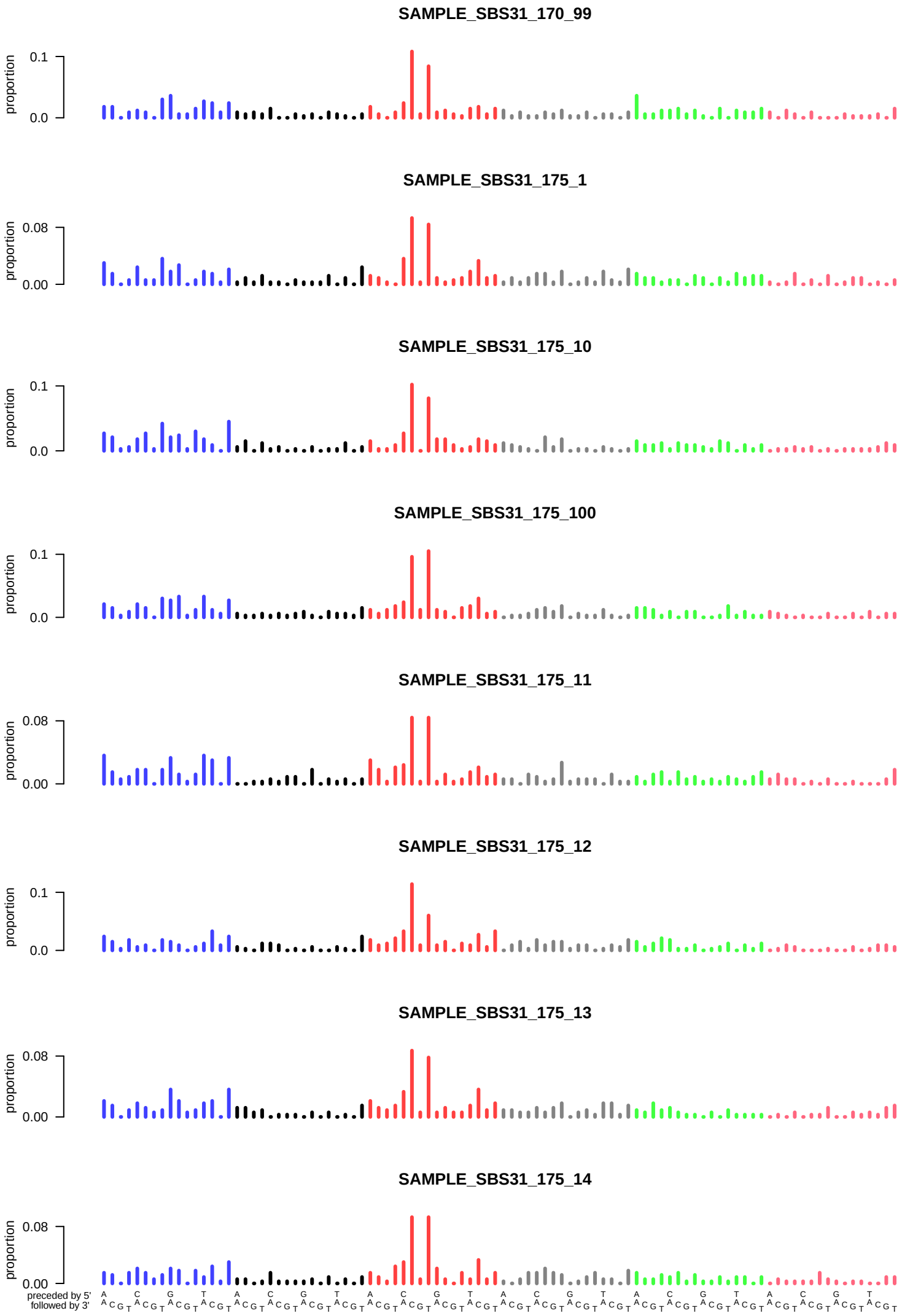
followed by 3'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SAMPLE_SBS31_175_11
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SAMPLE_SBS31_175_12
proportion
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SAMPLE_SBS31_175_13
proportion
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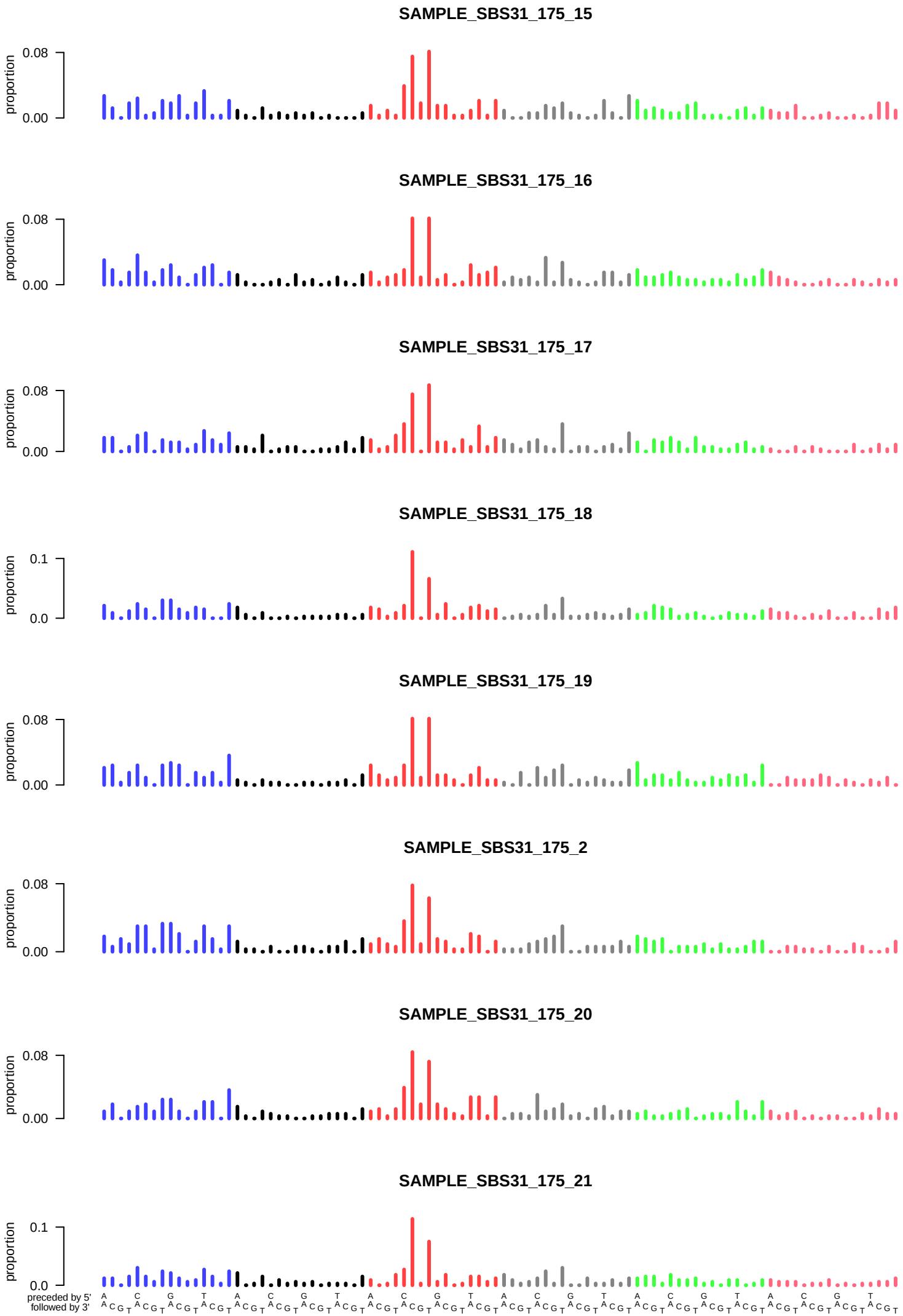
preceded by 5'
followed by 3'
A C G T A C G T A C G T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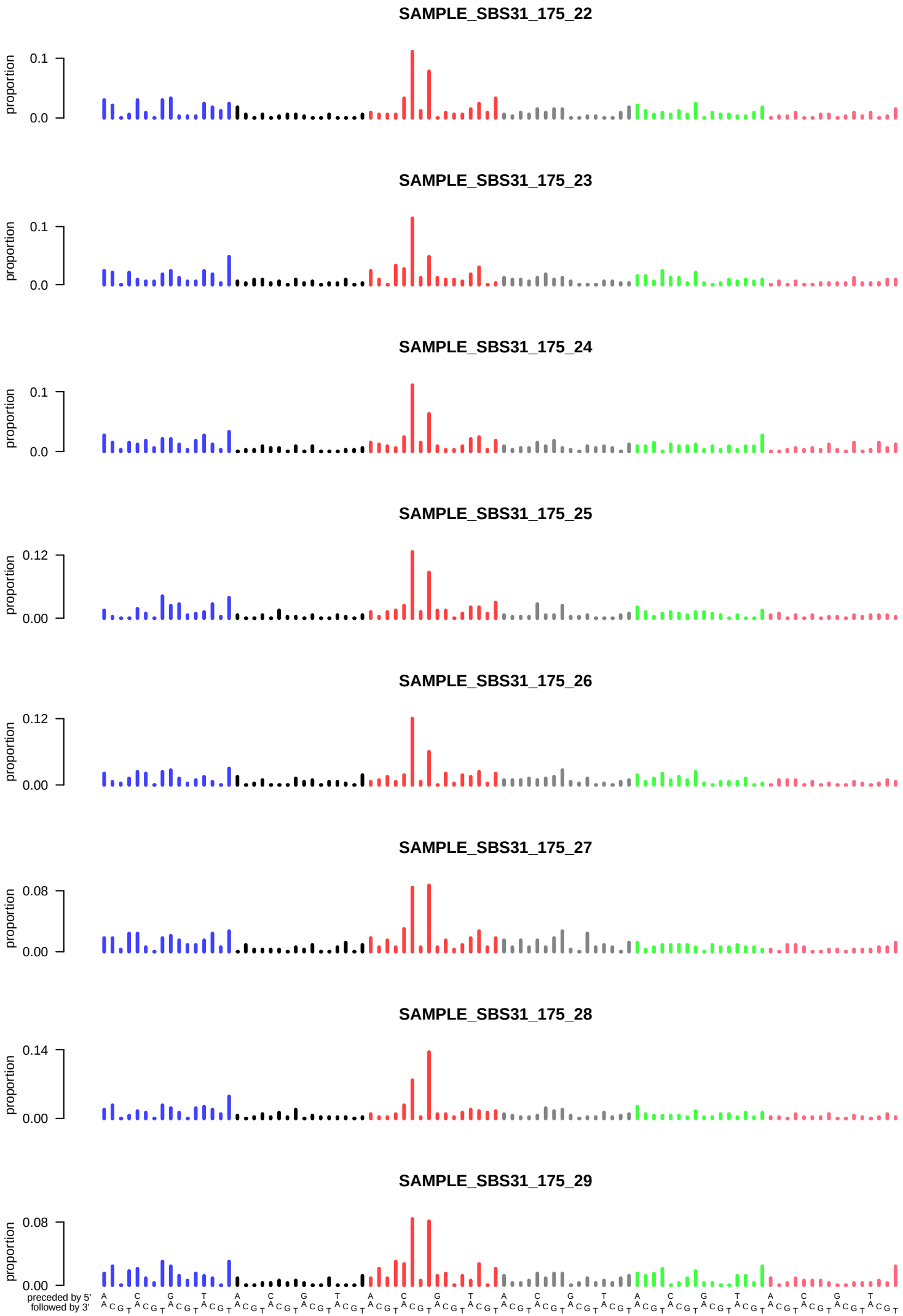
followed by 3'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SAMPLE_SBS31_175_24
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SAMPLE_SBS31_175_27
proportion
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SAMPLE_SBS31_175_28
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SAMPLE_SBS31_175_29
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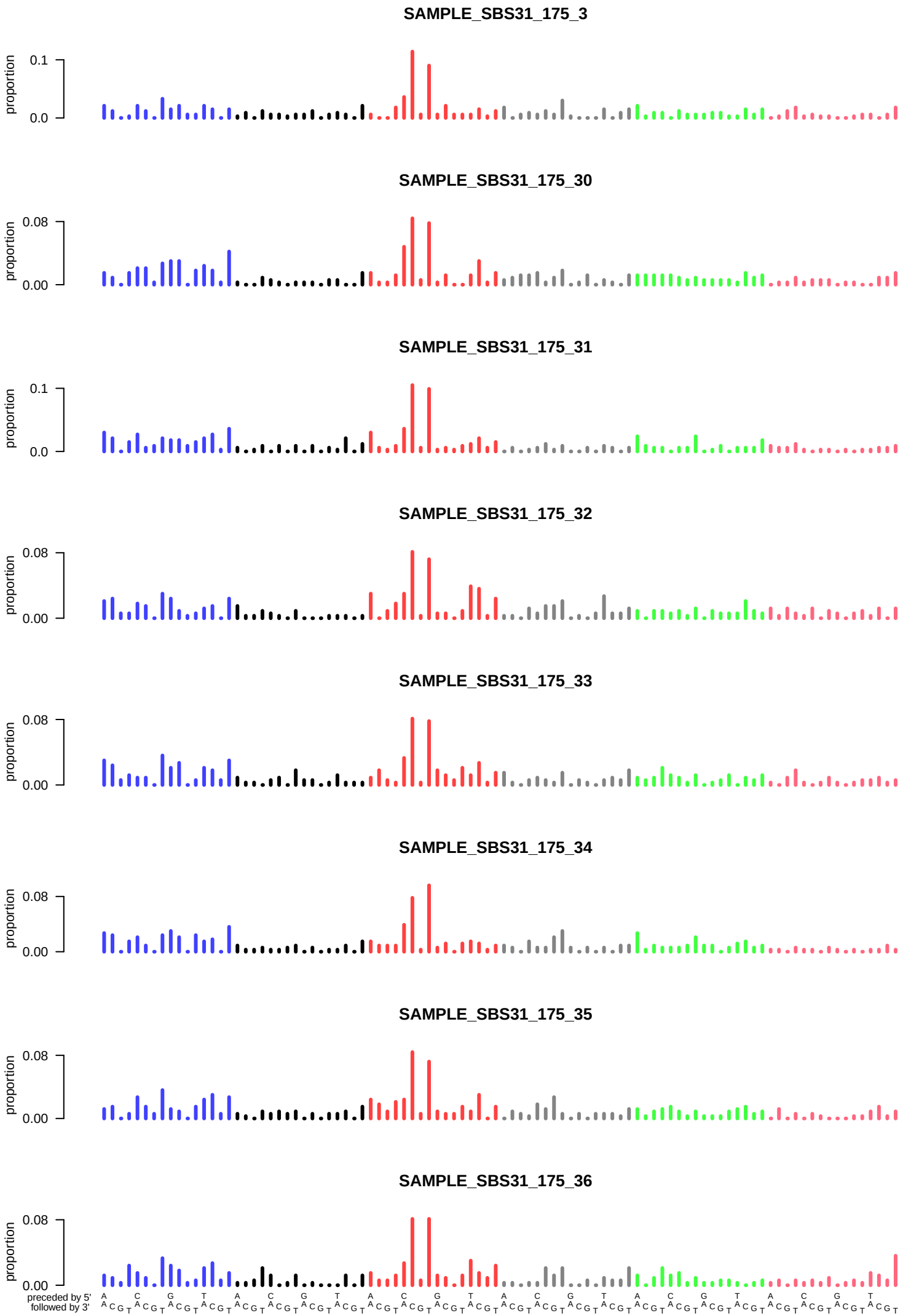
preceded by 5'
followed by 3'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SAMPLE_SBS31_175_32
SAMPLE_SBS31_175_33
SAMPLE_SBS31_175_34
SAMPLE_SBS31_175_35
SAMPLE_SBS31_175_36
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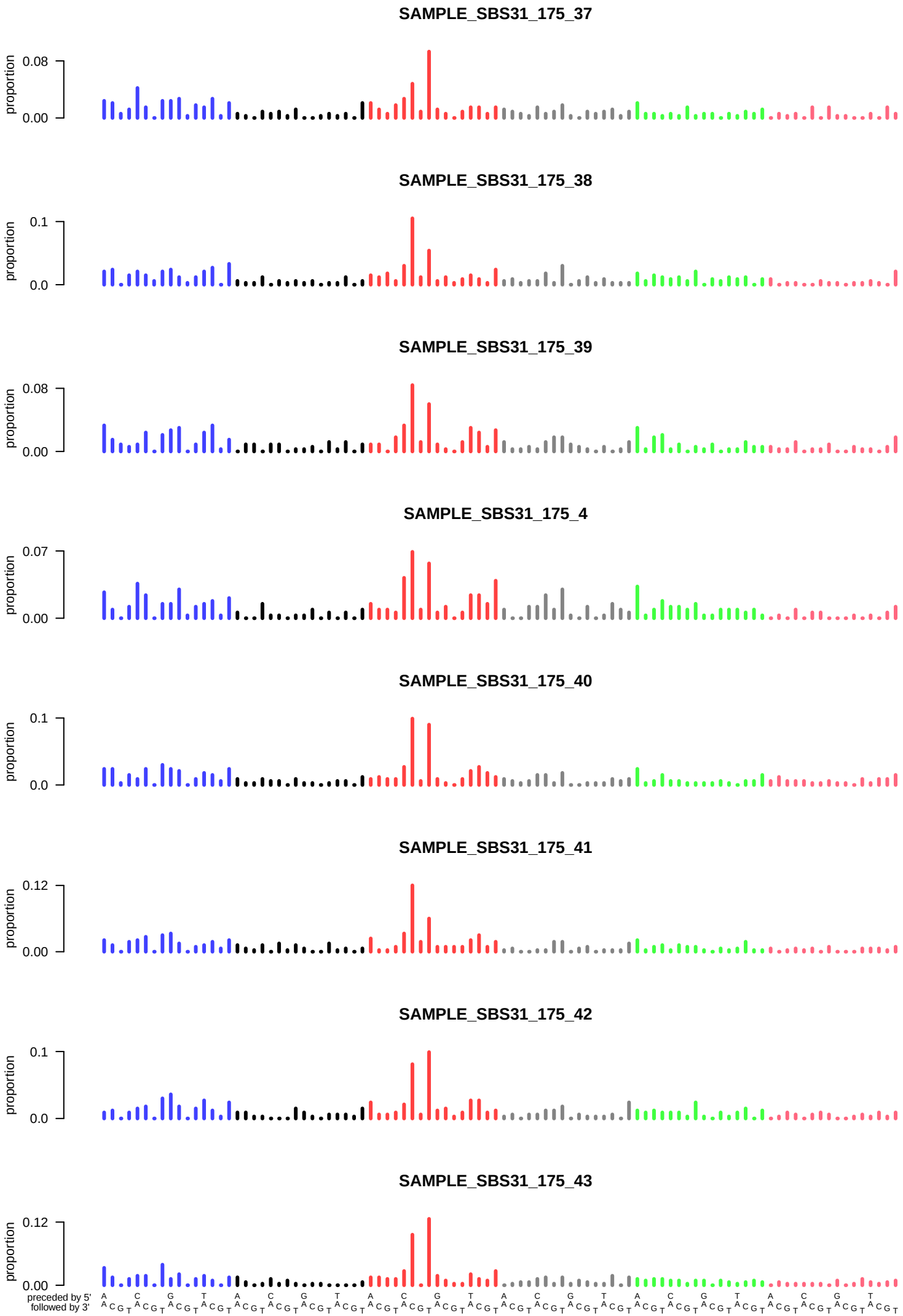
followed by 3'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SAMPLE_SBS31_175_40
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SAMPLE_SBS31_175_41
proportion
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SAMPLE_SBS31_175_42
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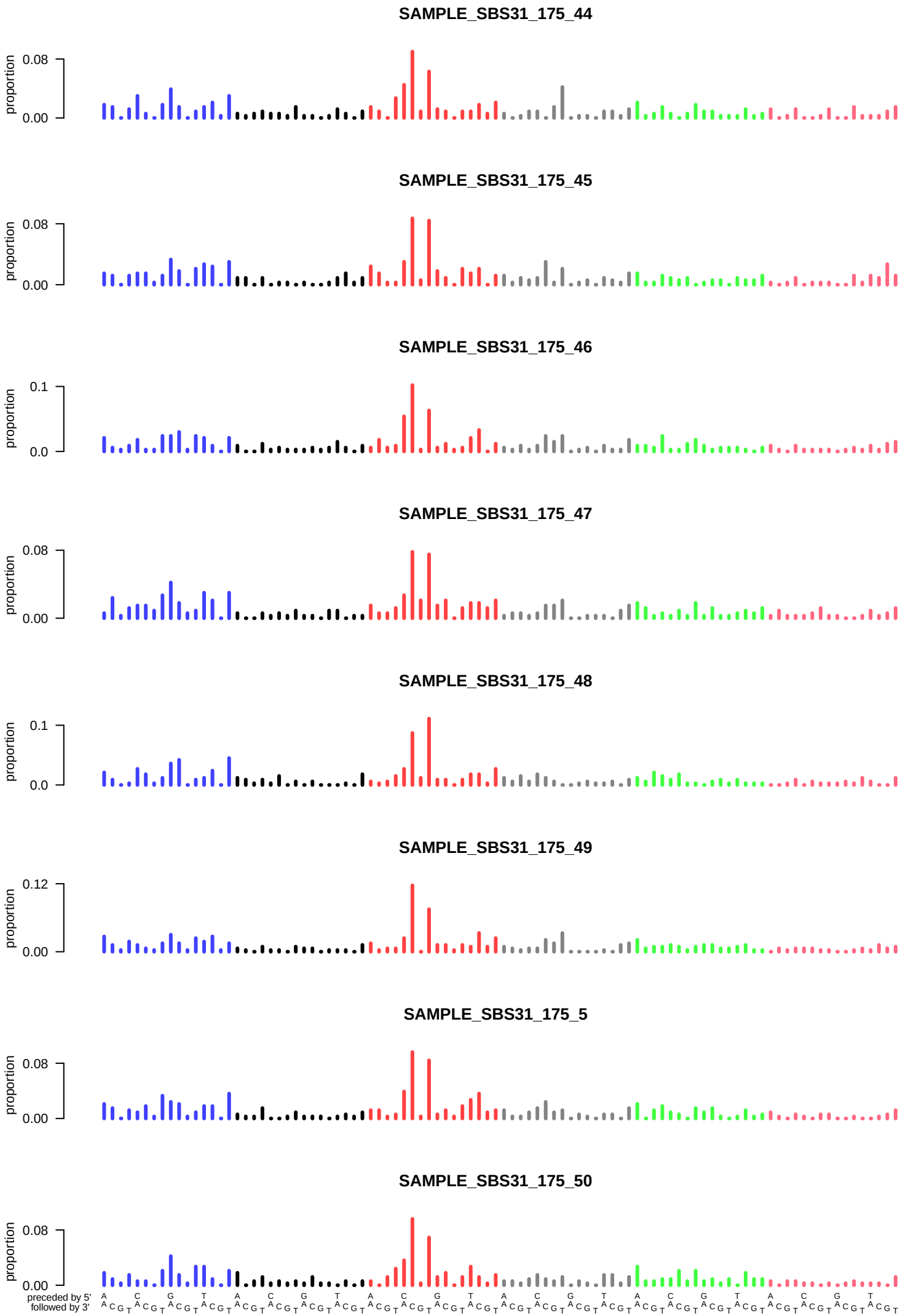
followed by 3'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SAMPLE_SBS31_175_46
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SAMPLE_SBS31_175_48
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SAMPLE_SBS31_175_49
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SAMPLE_SBS31_175_5
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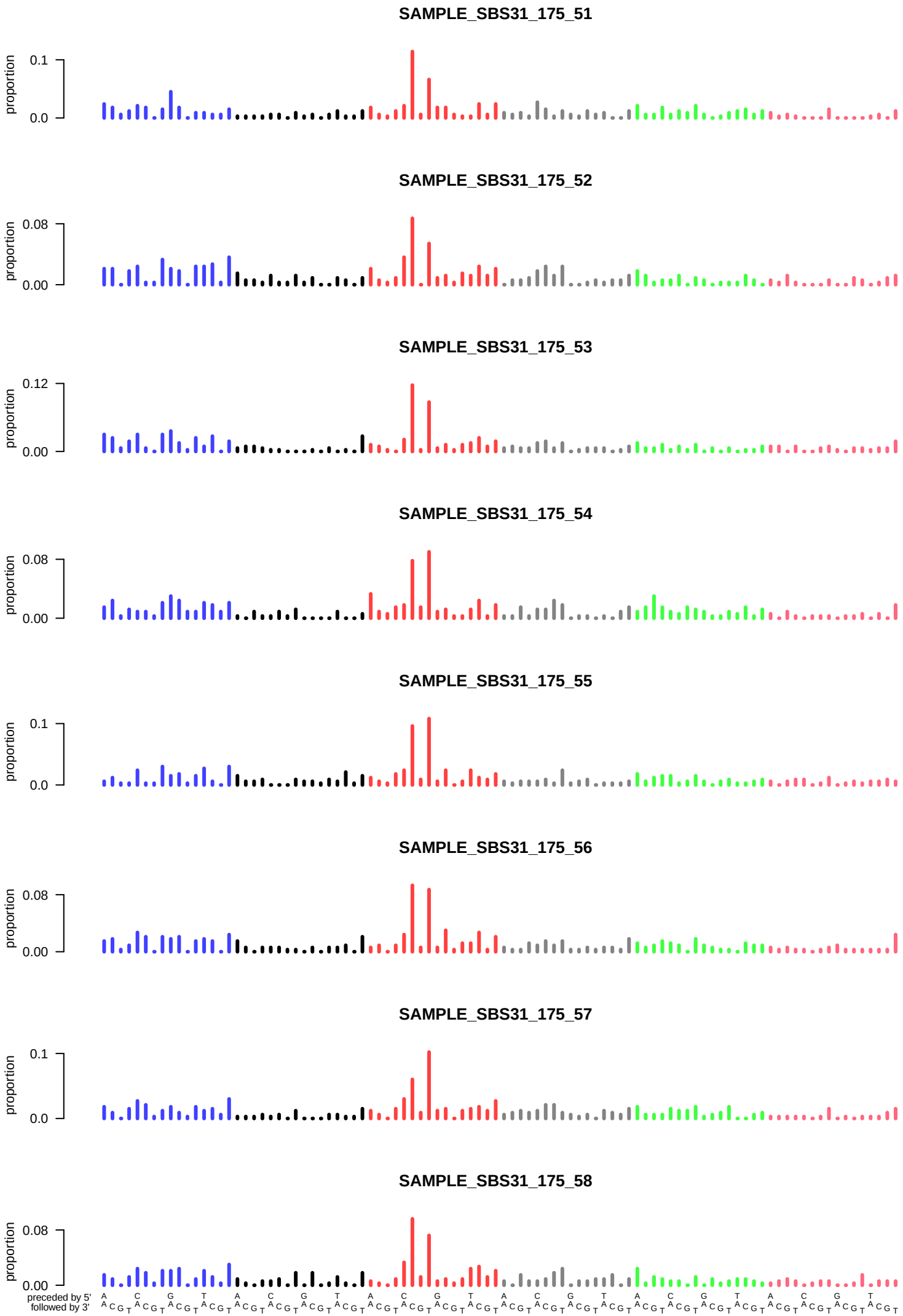
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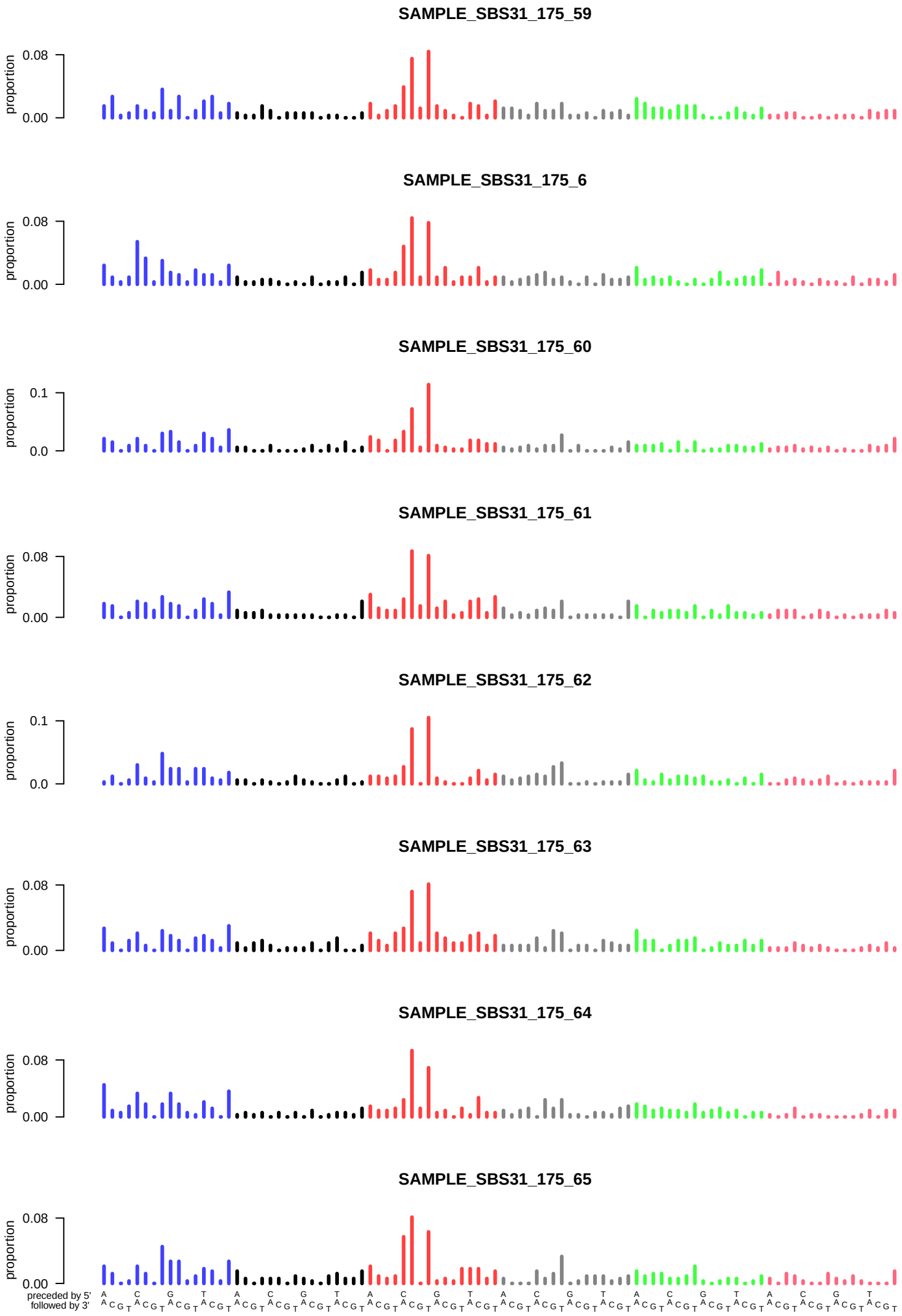
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SAMPLE_SBS31_175_61
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SAMPLE_SBS31_175_64
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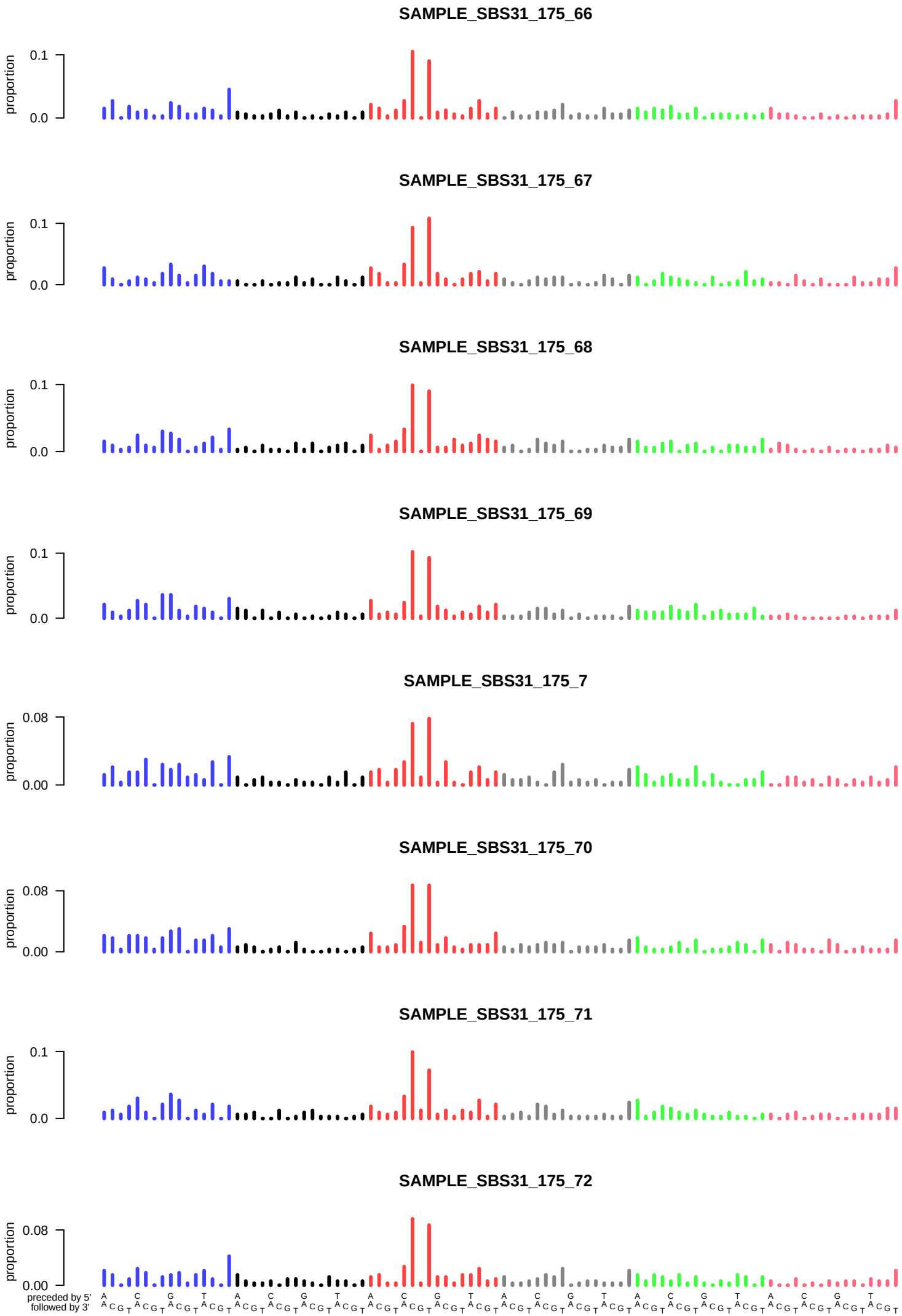
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SAMPLE_SBS31_175_70
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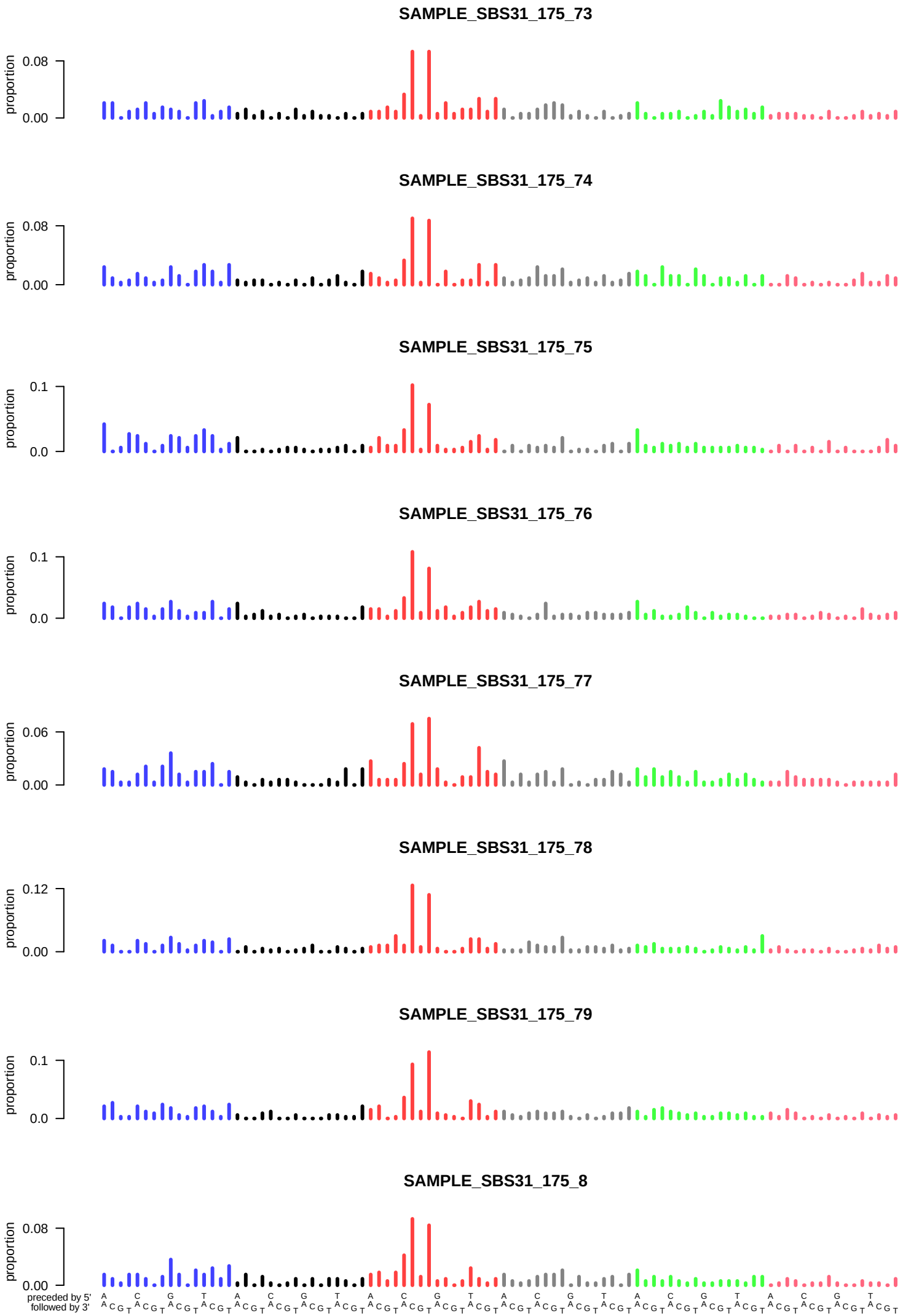
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SAMPLE_SBS31_175_76
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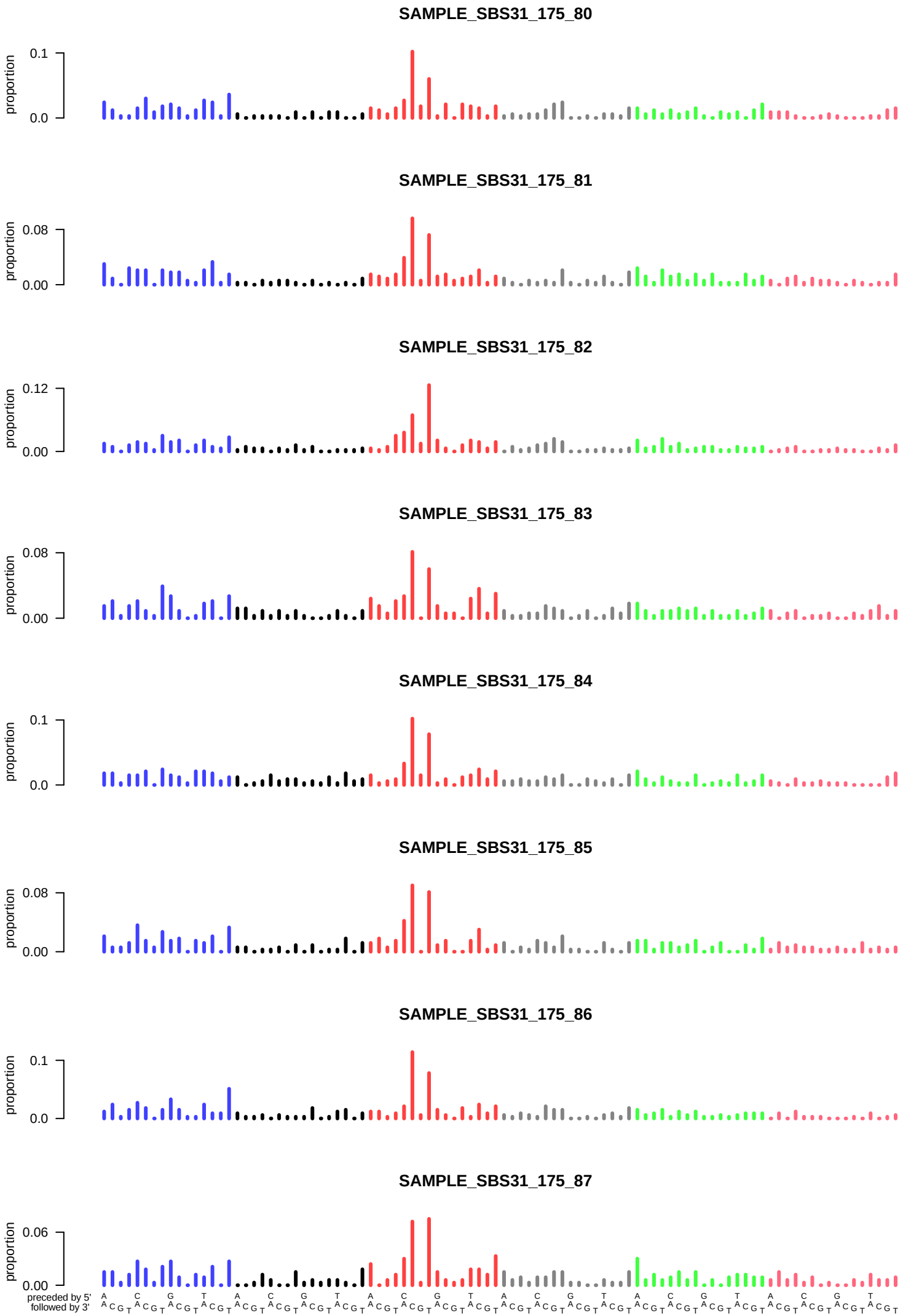
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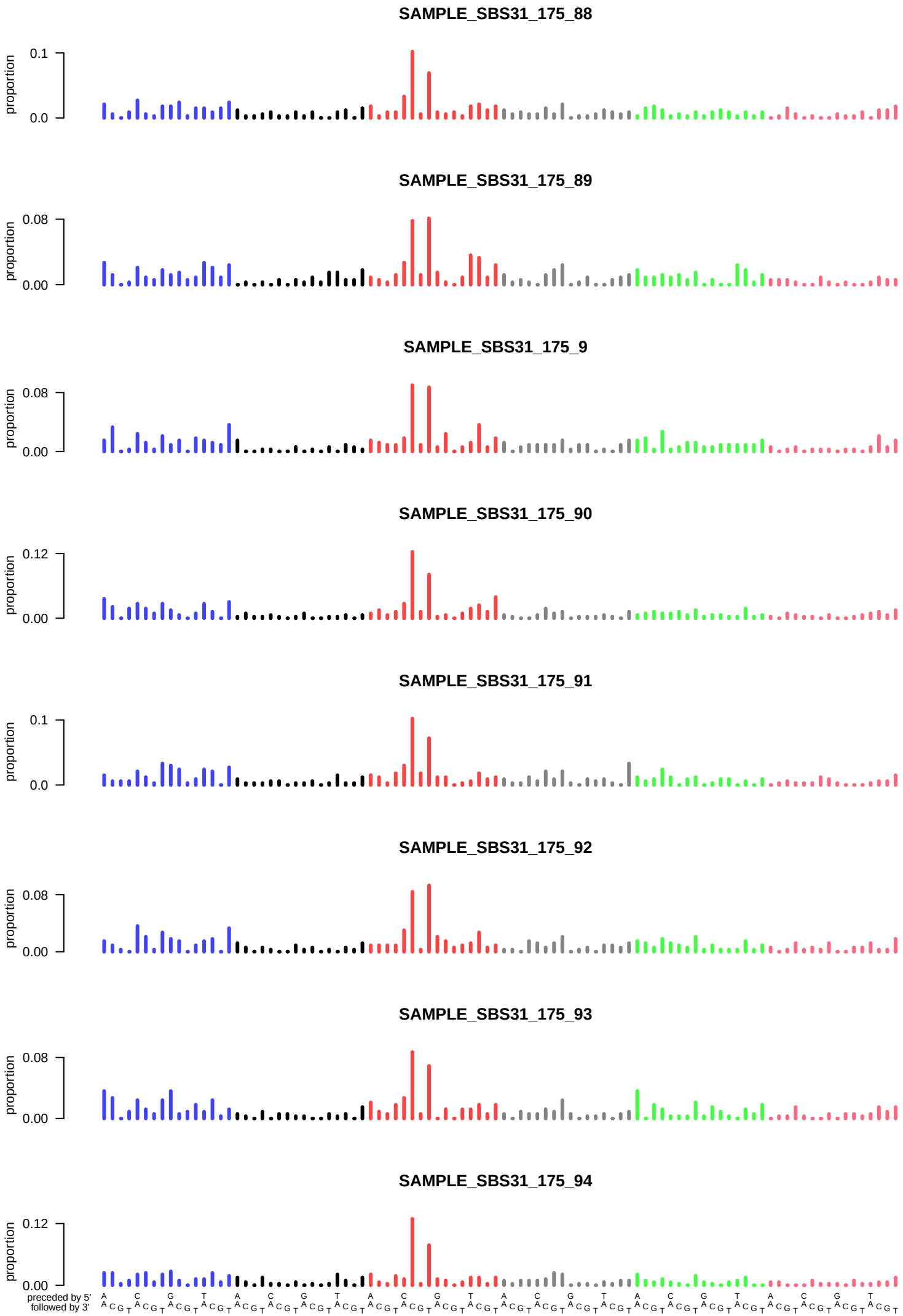
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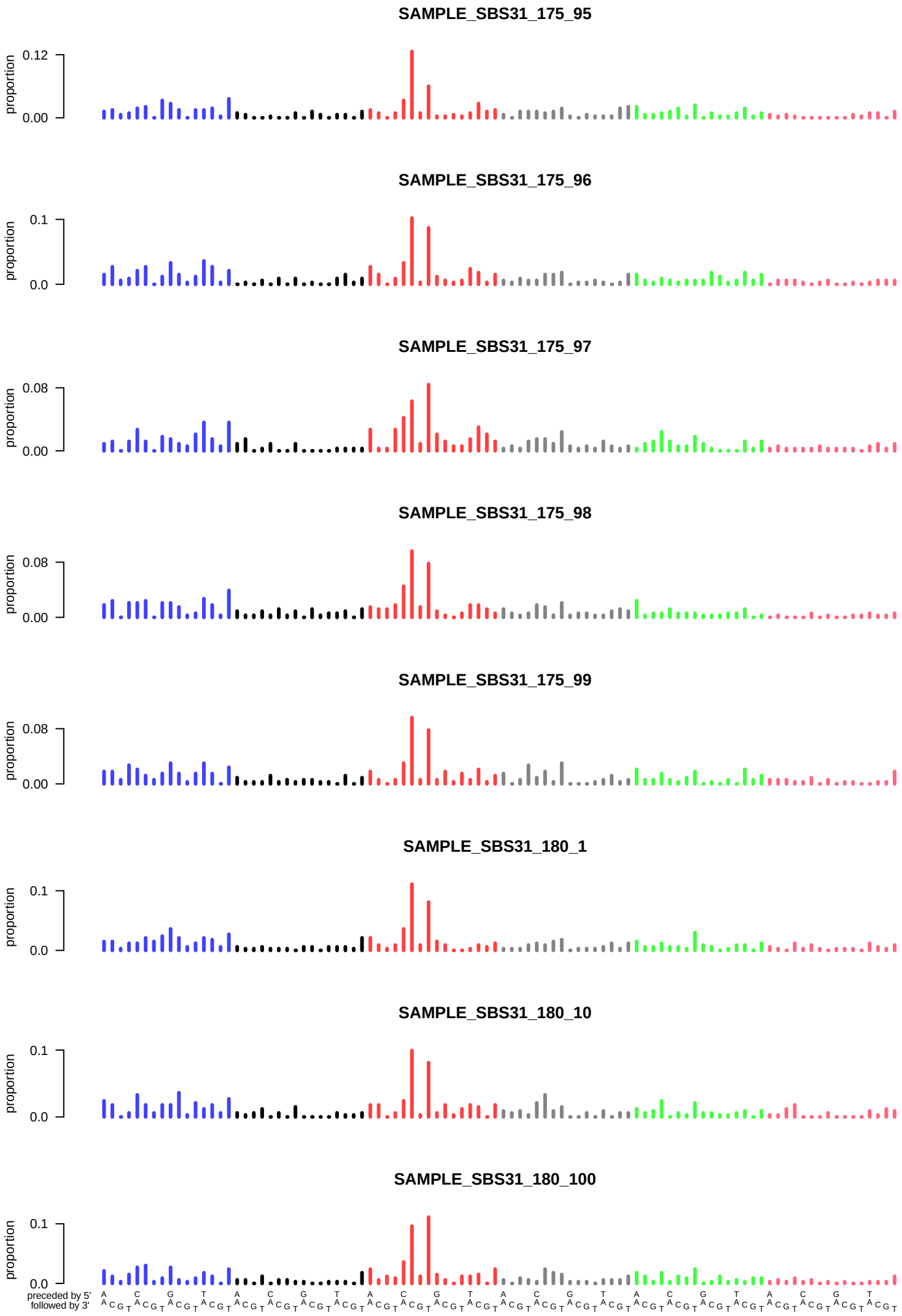
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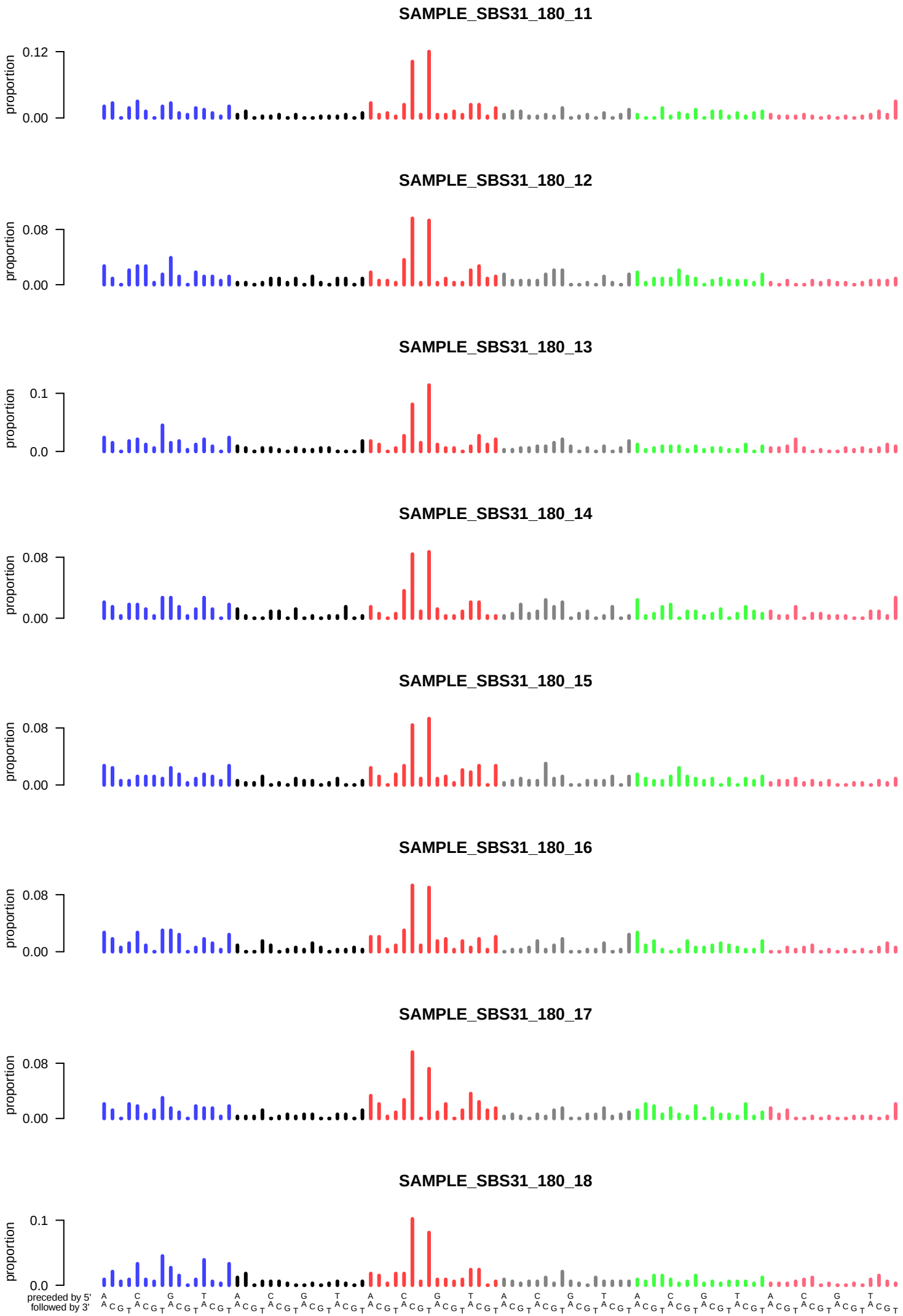
A C G T A C G T A C G T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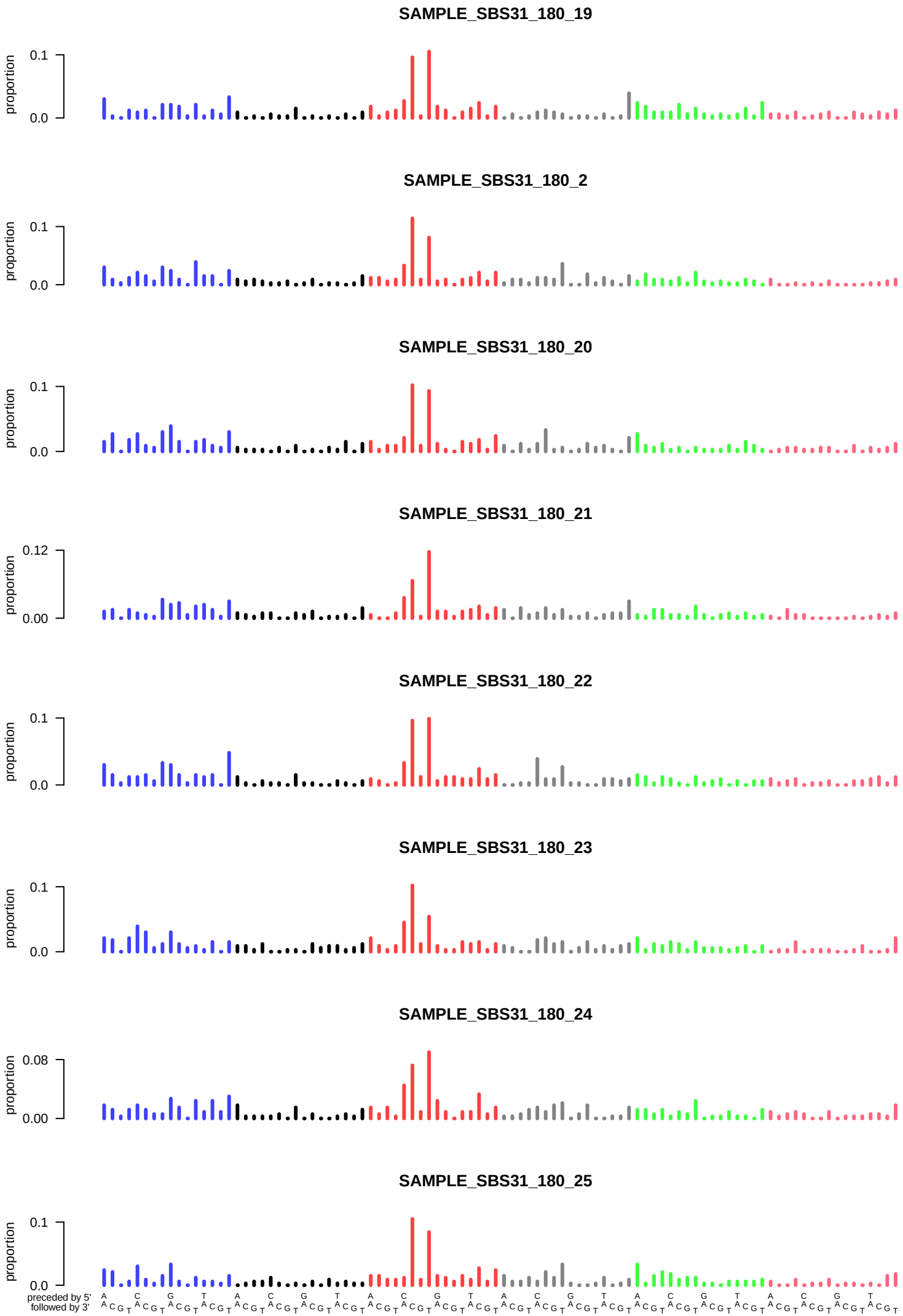
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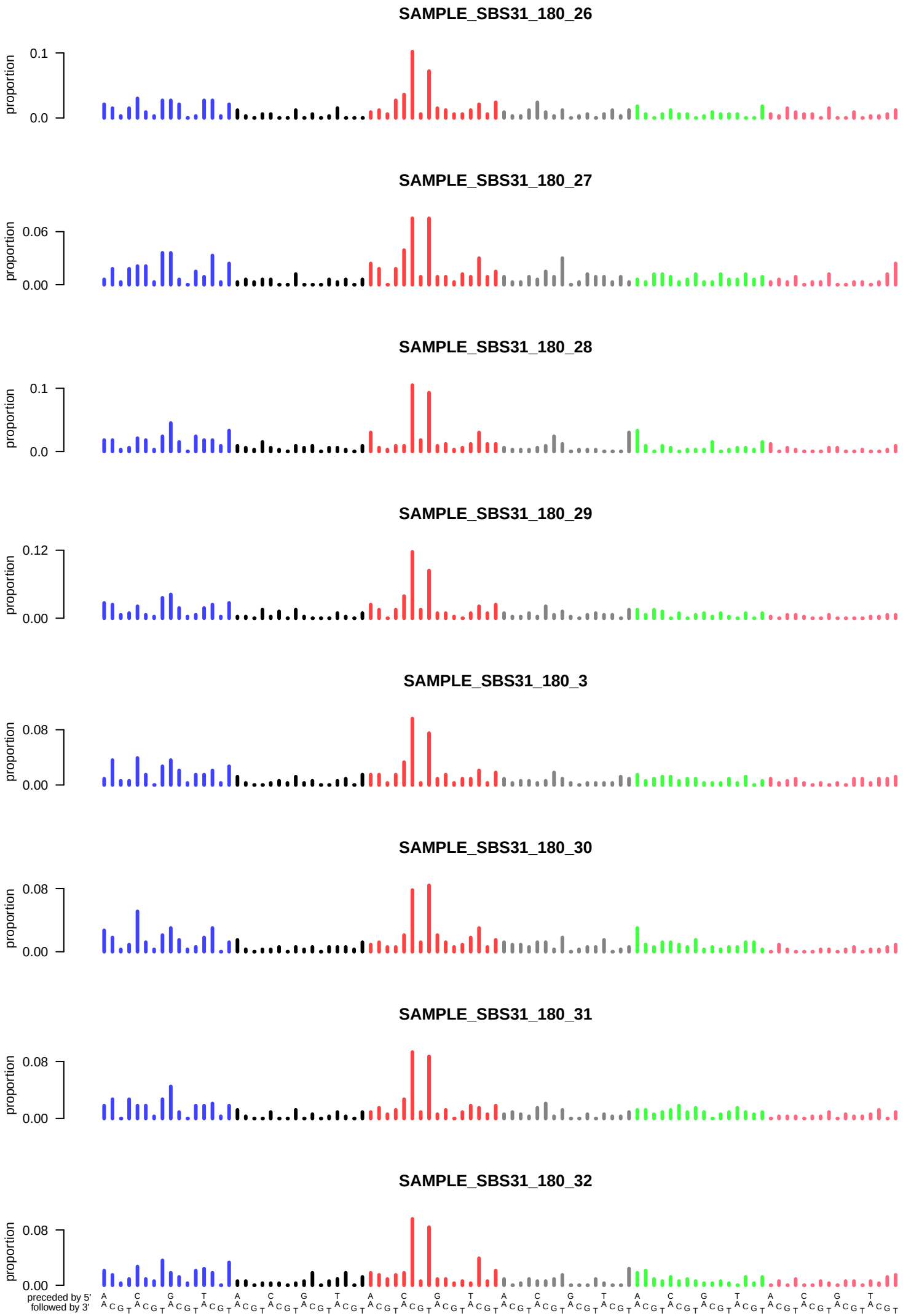
followed by 3'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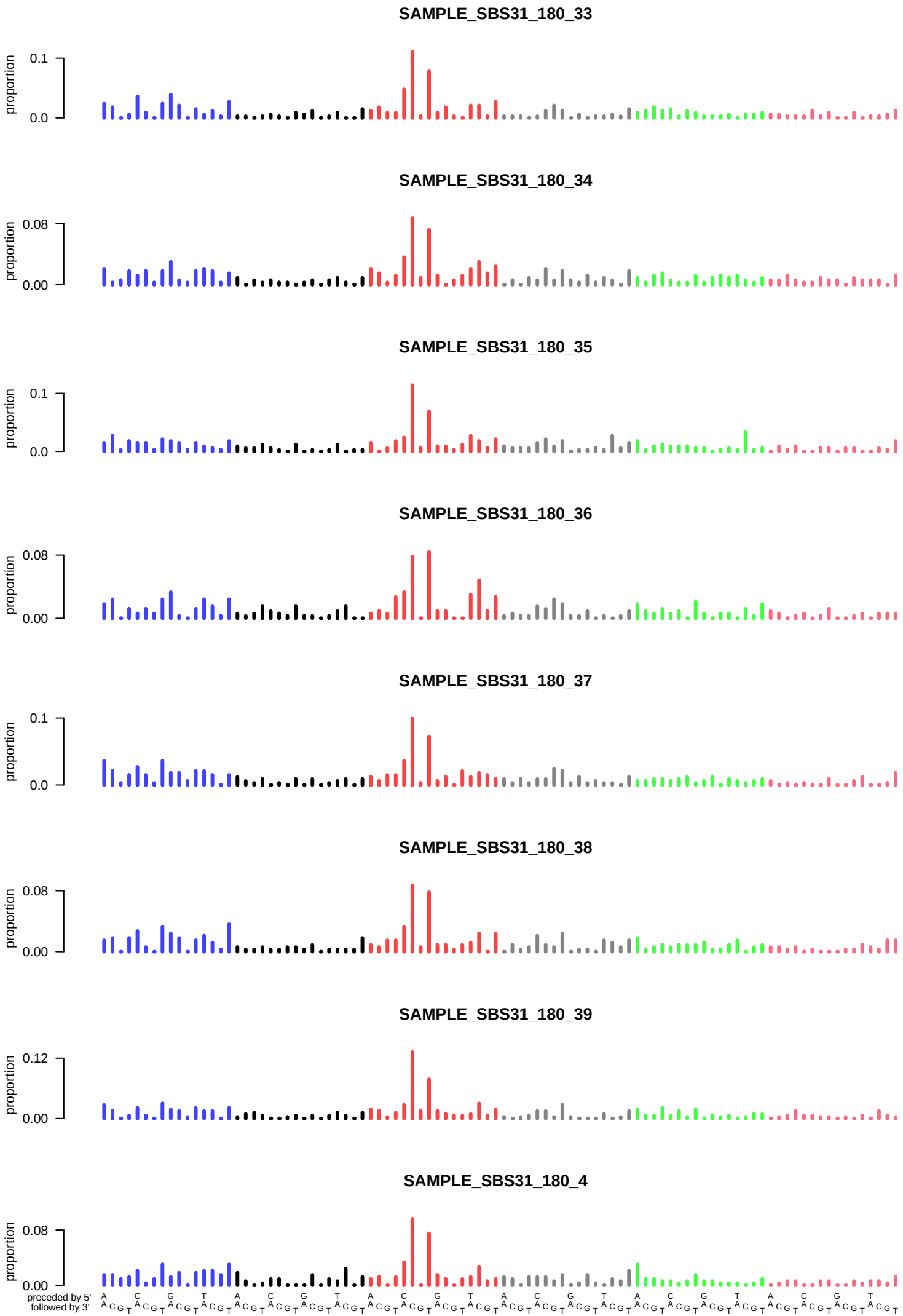
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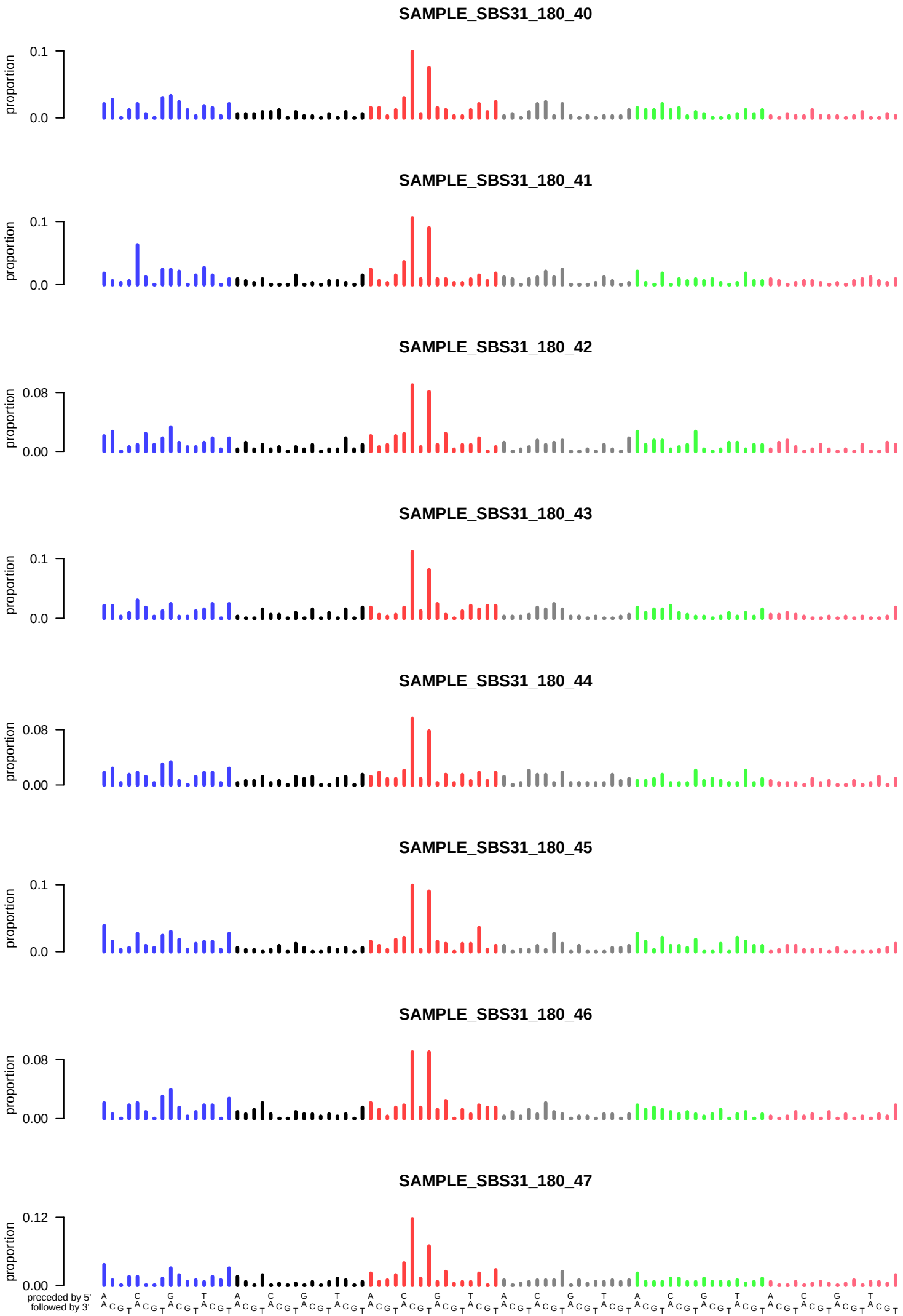
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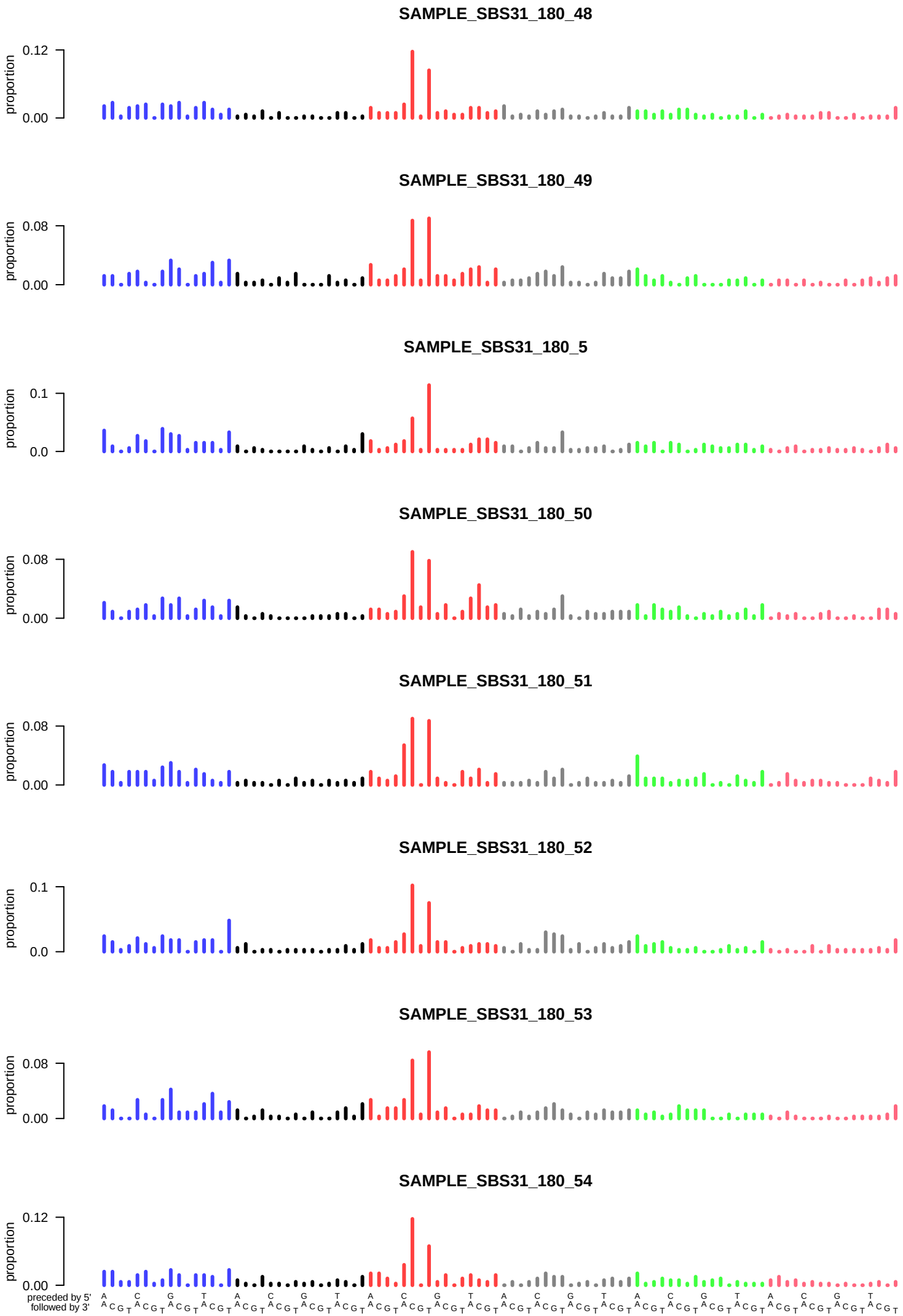
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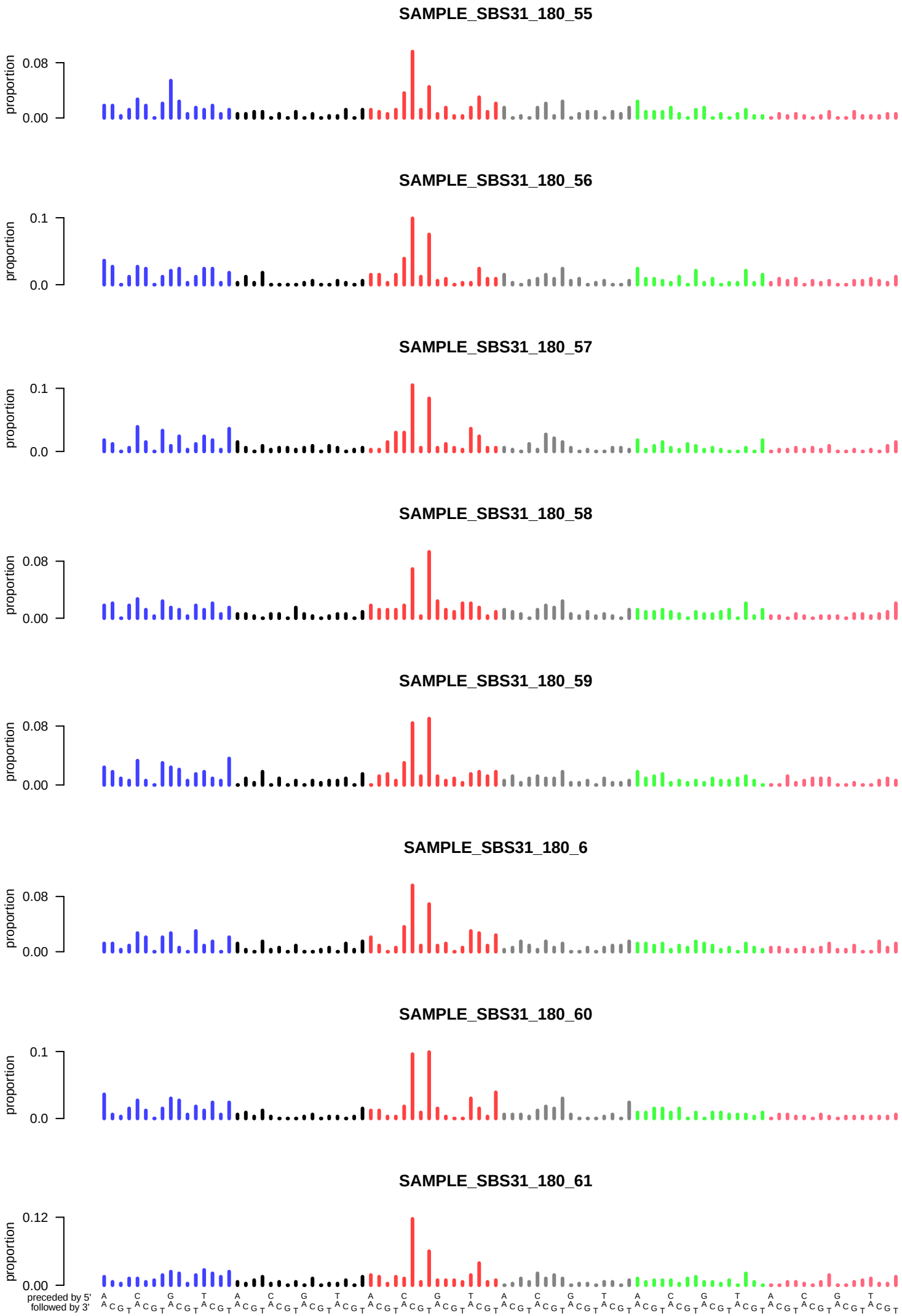
followed by 3'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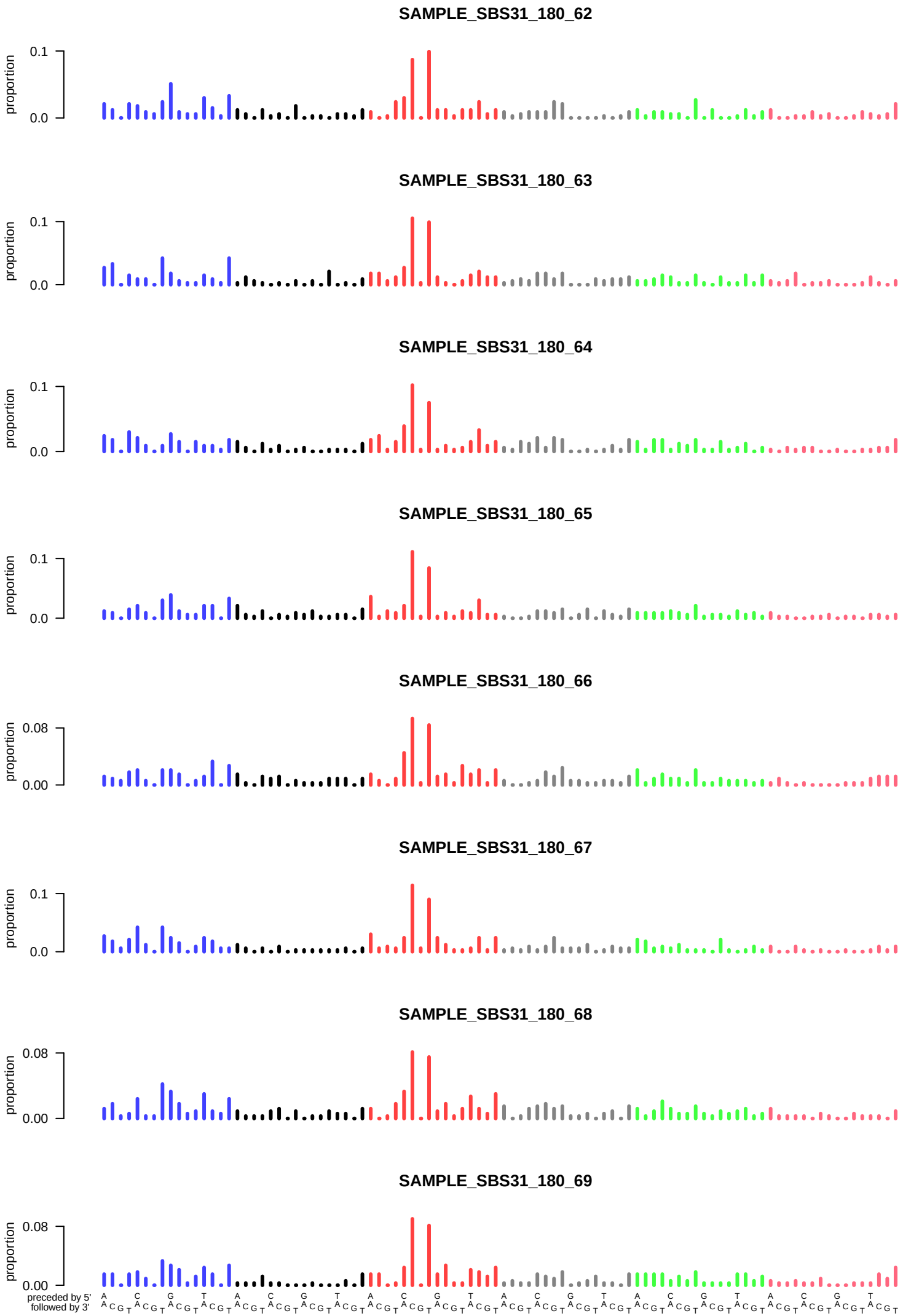
followed by 3'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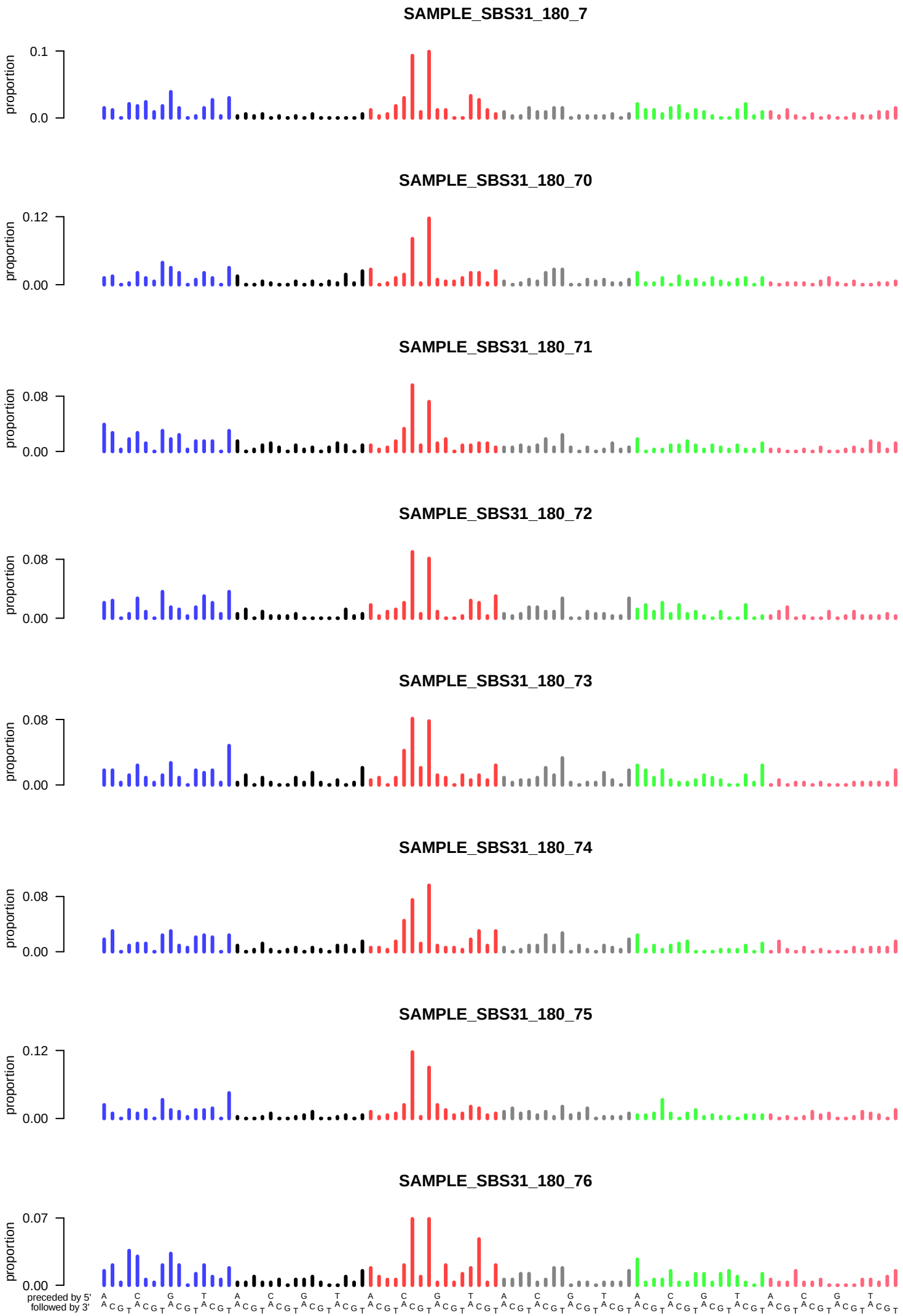
followed by 3'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followed by 3'
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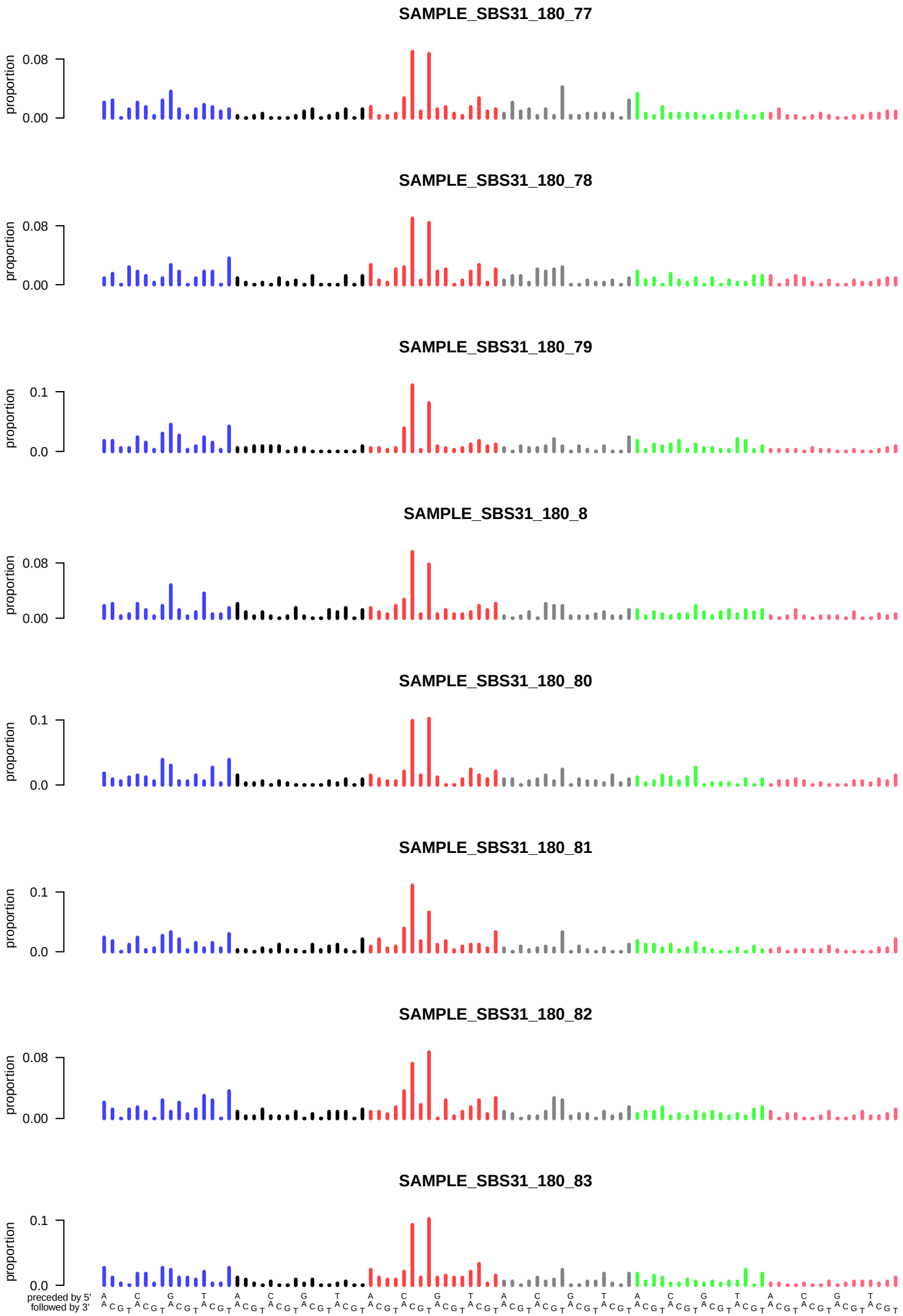
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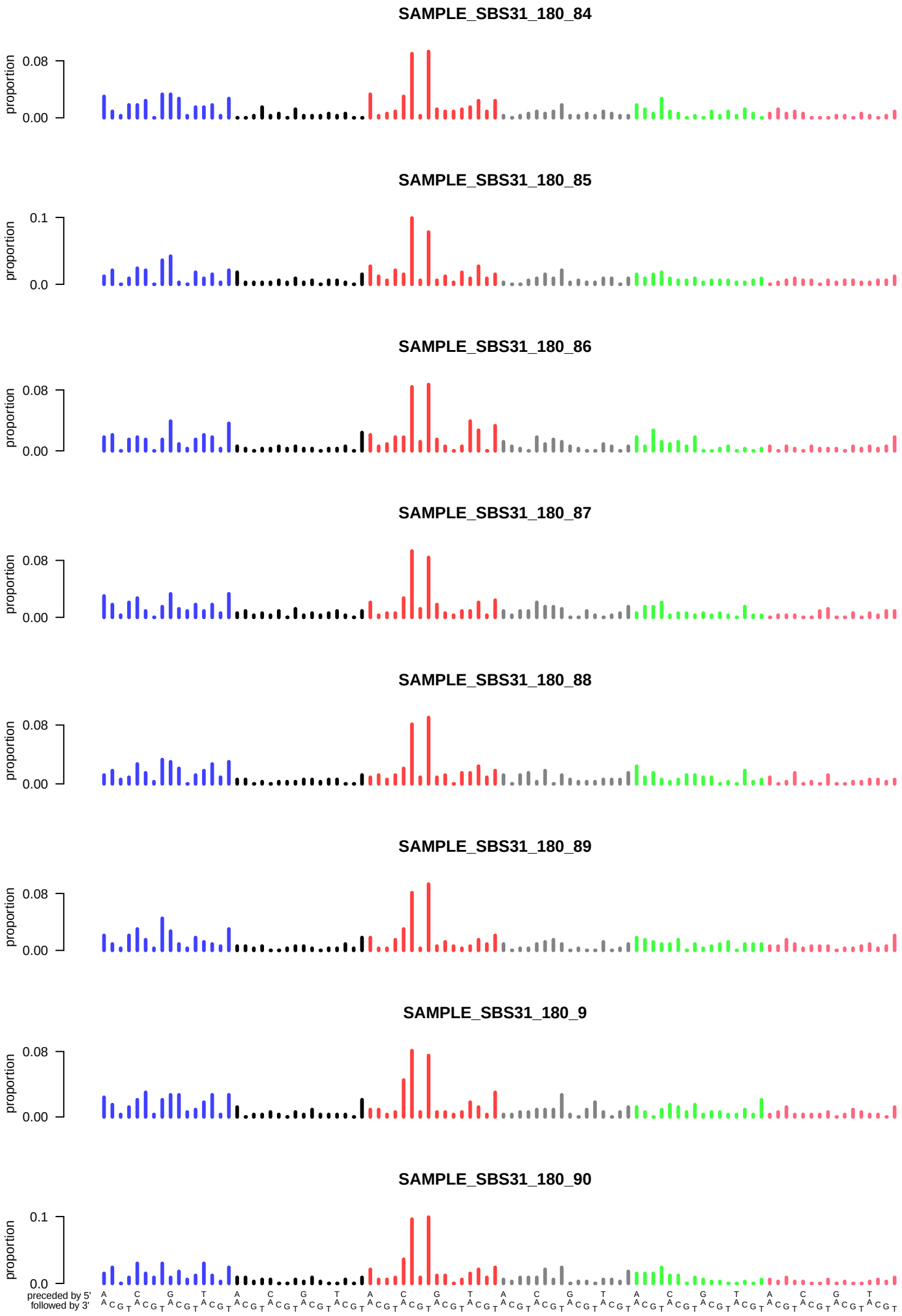
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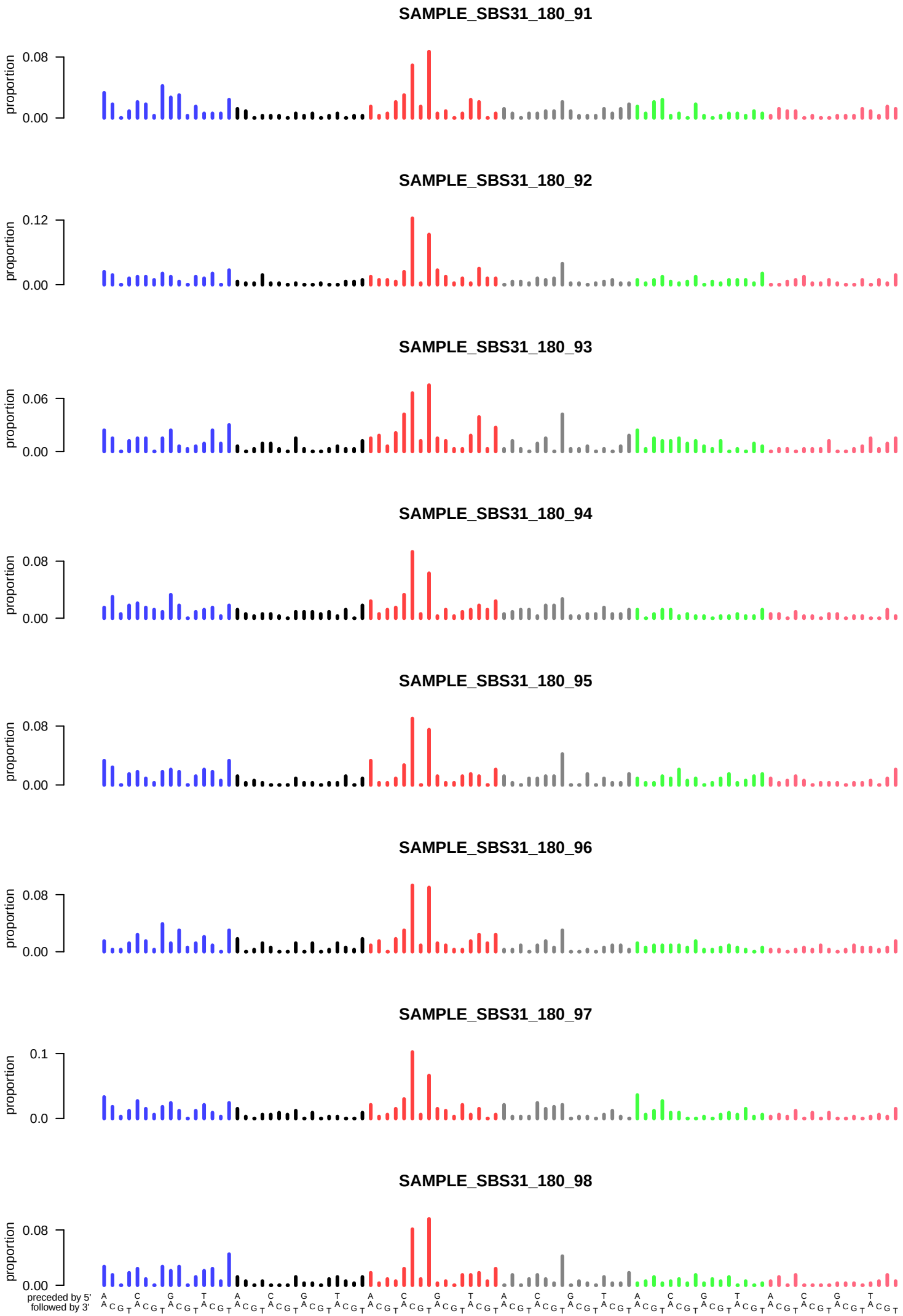
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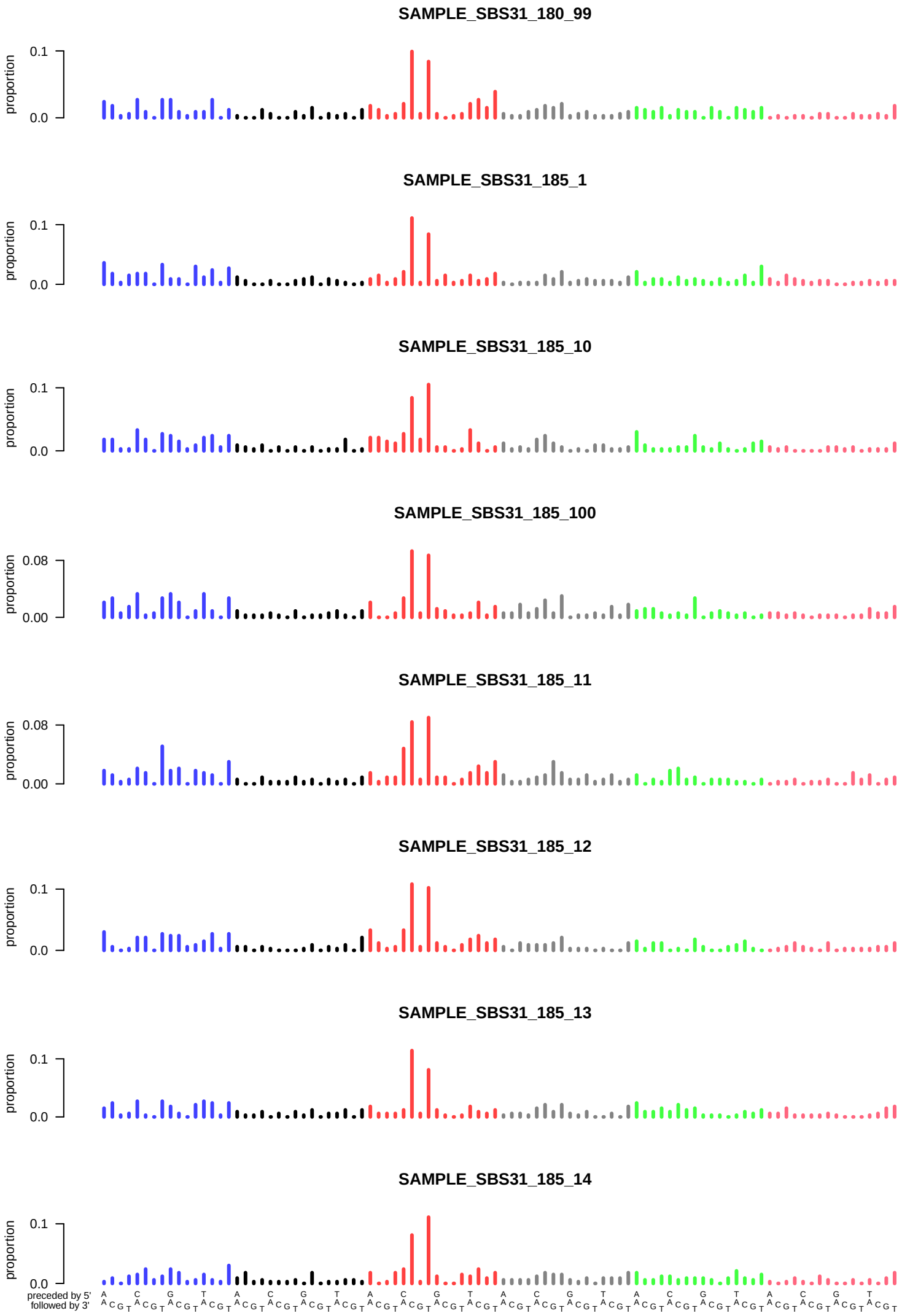
followed by 3'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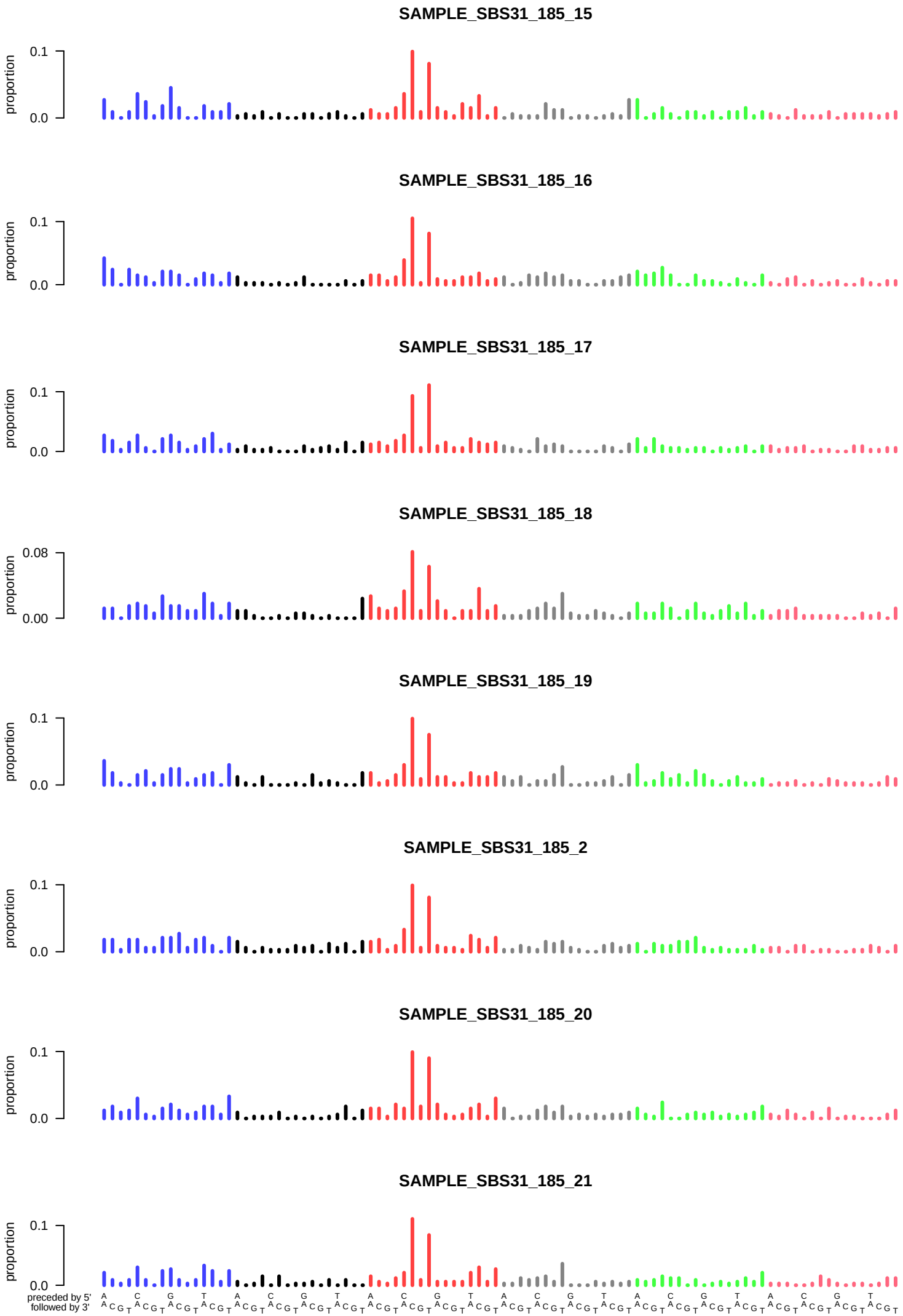
followed by 3'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SAMPLE_SBS31_185_2
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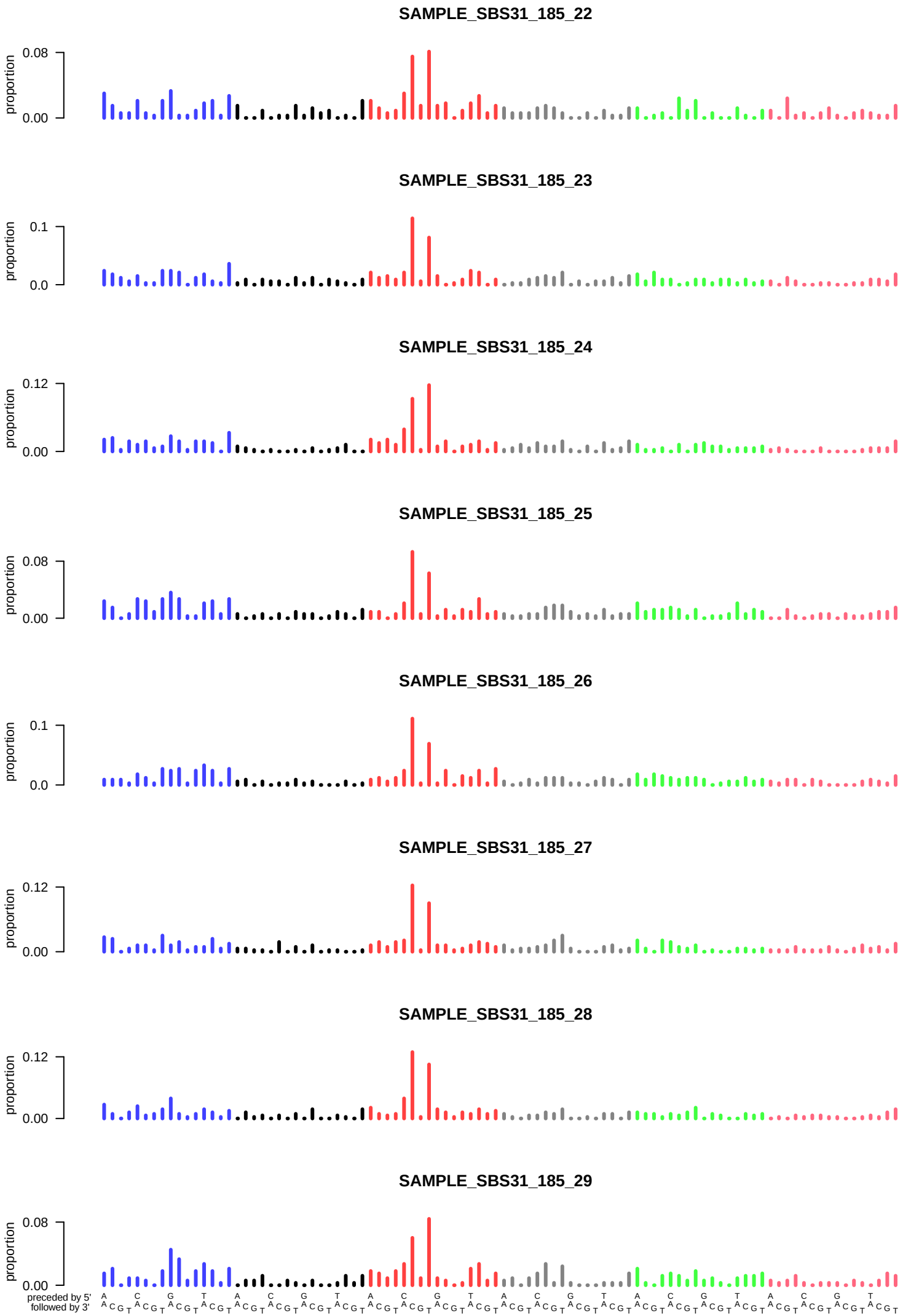
preceded by 5'
followed by 3'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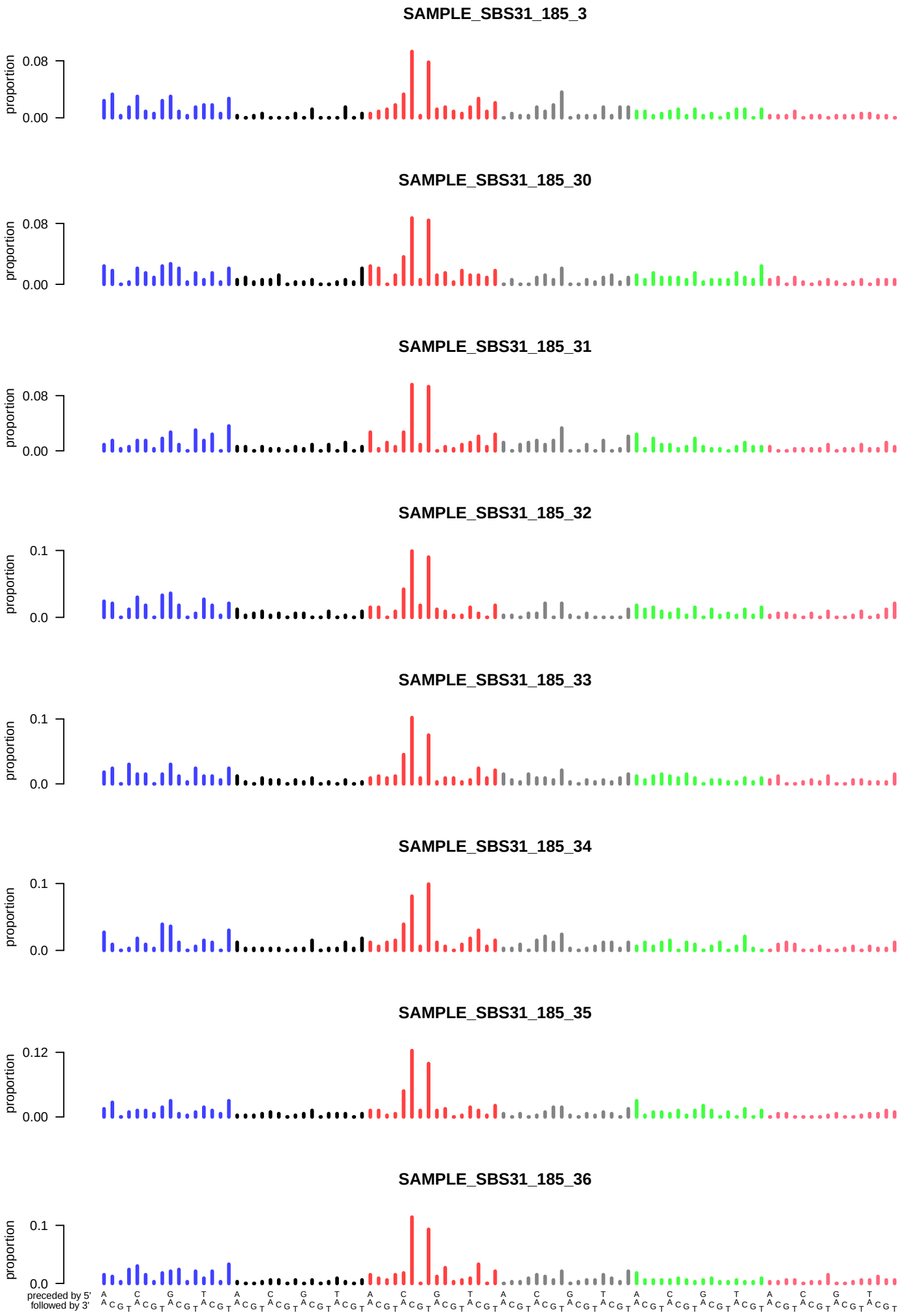
followed by 3'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SAMPLE_SBS31_185_34
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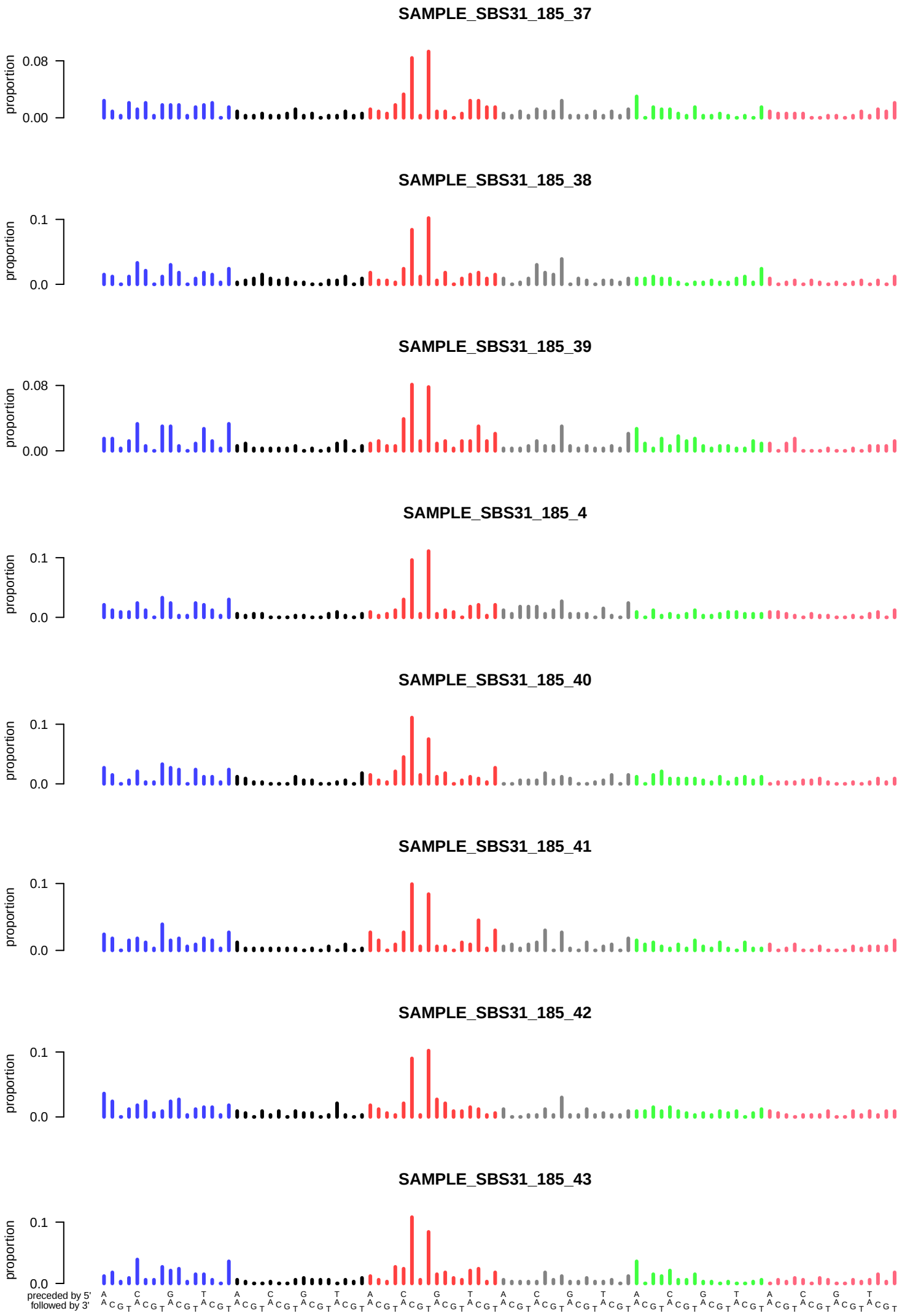
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SAMPLE_SBS31_185_41
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SAMPLE_SBS31_185_42
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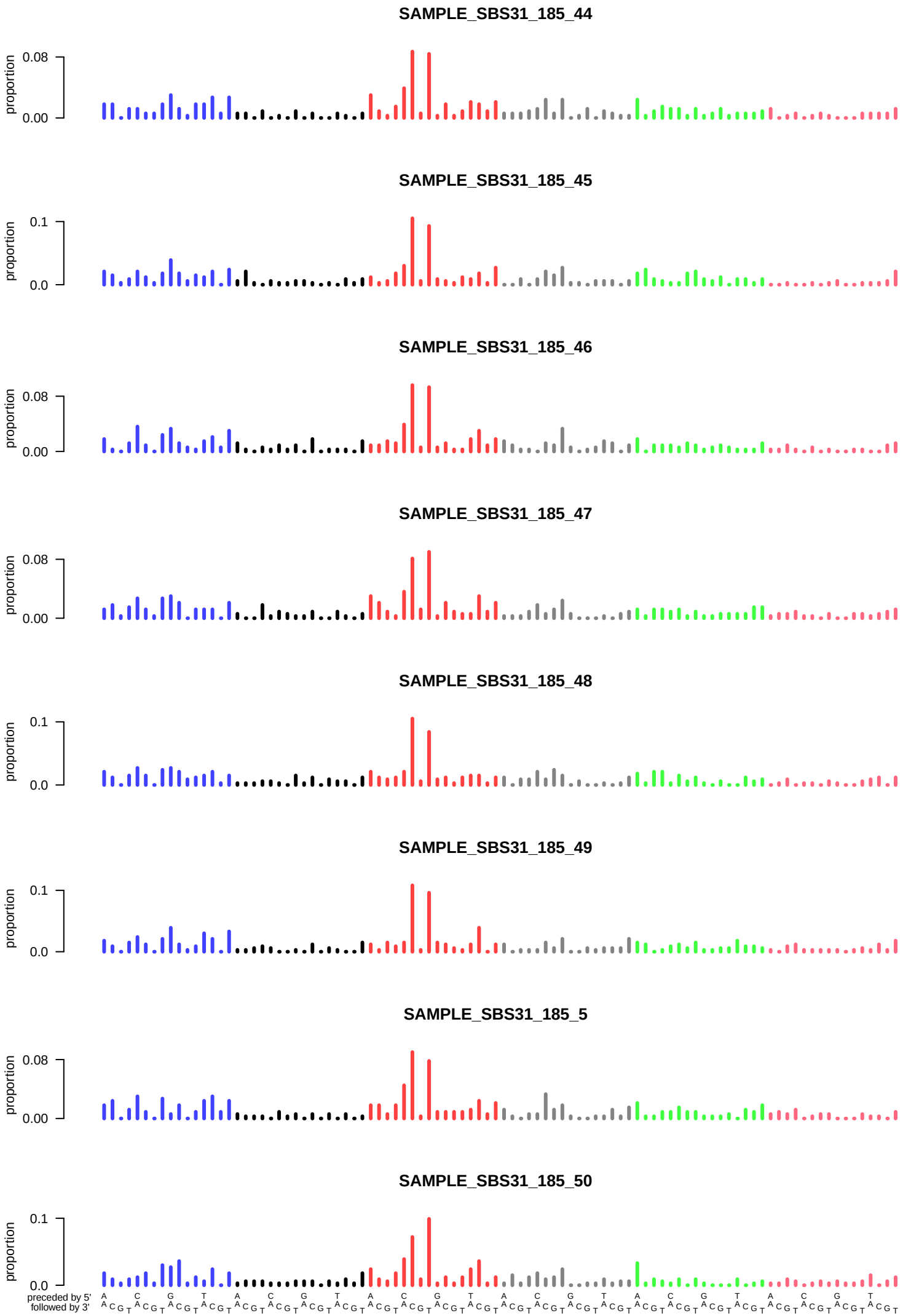
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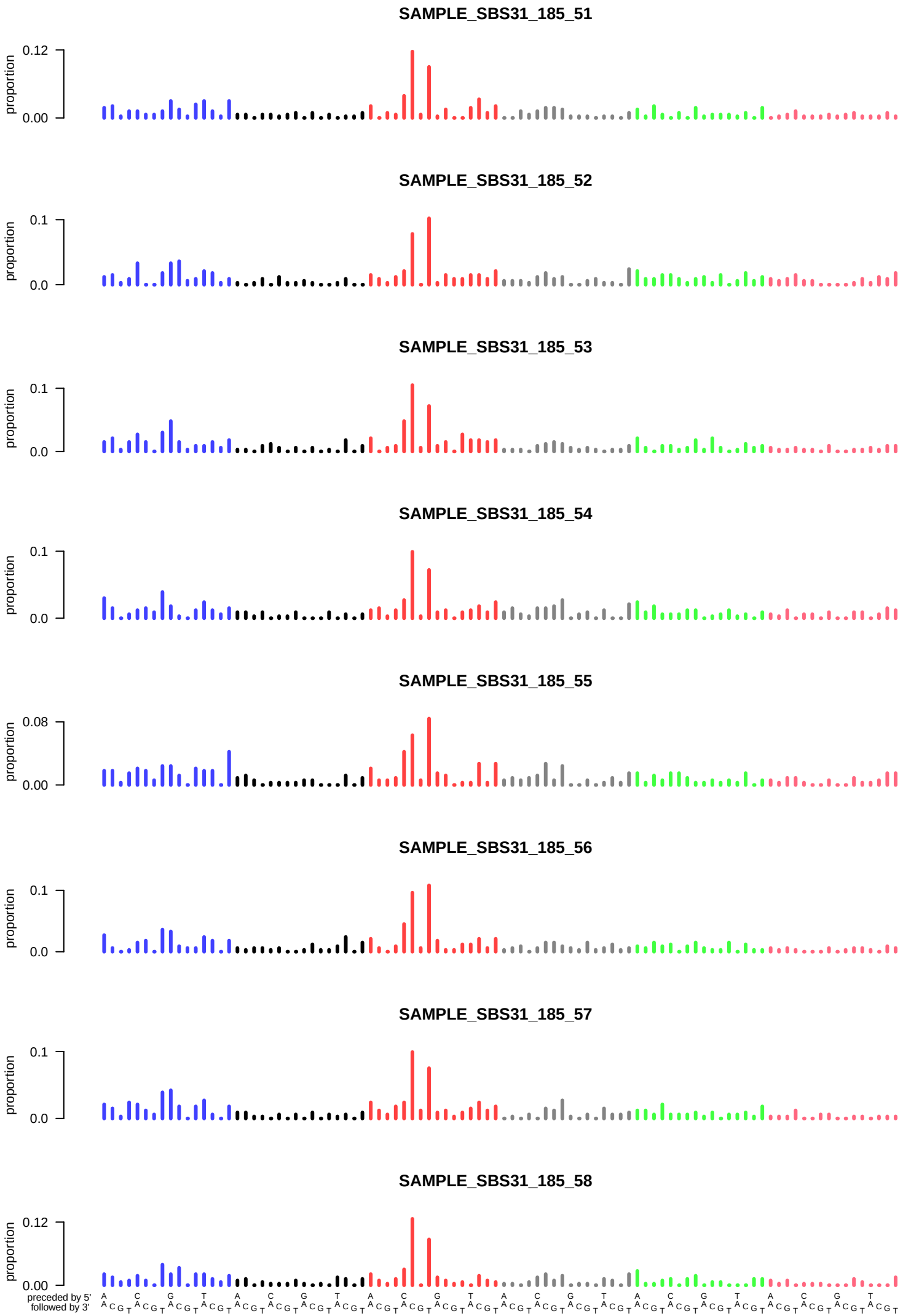
followed by 3'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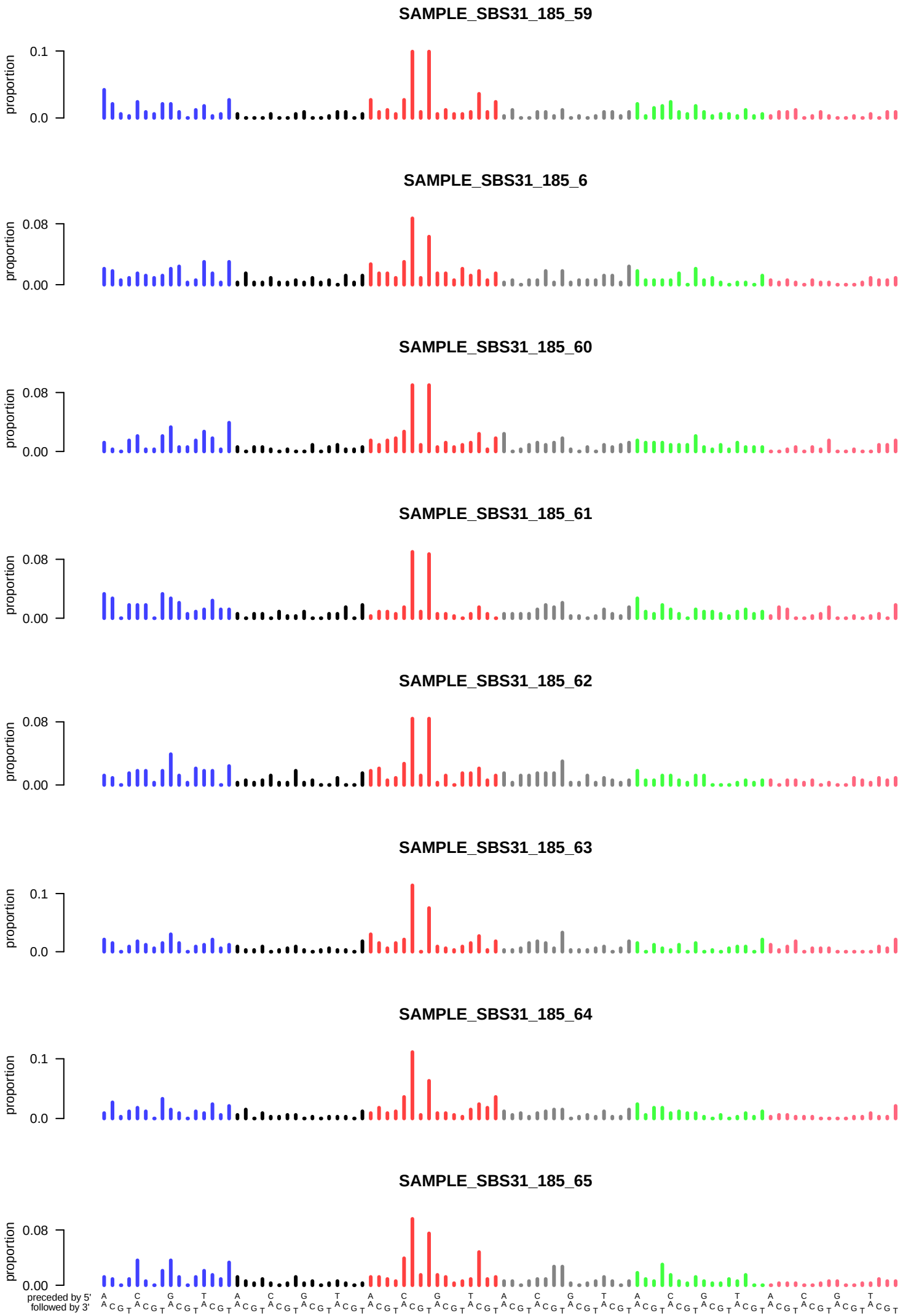
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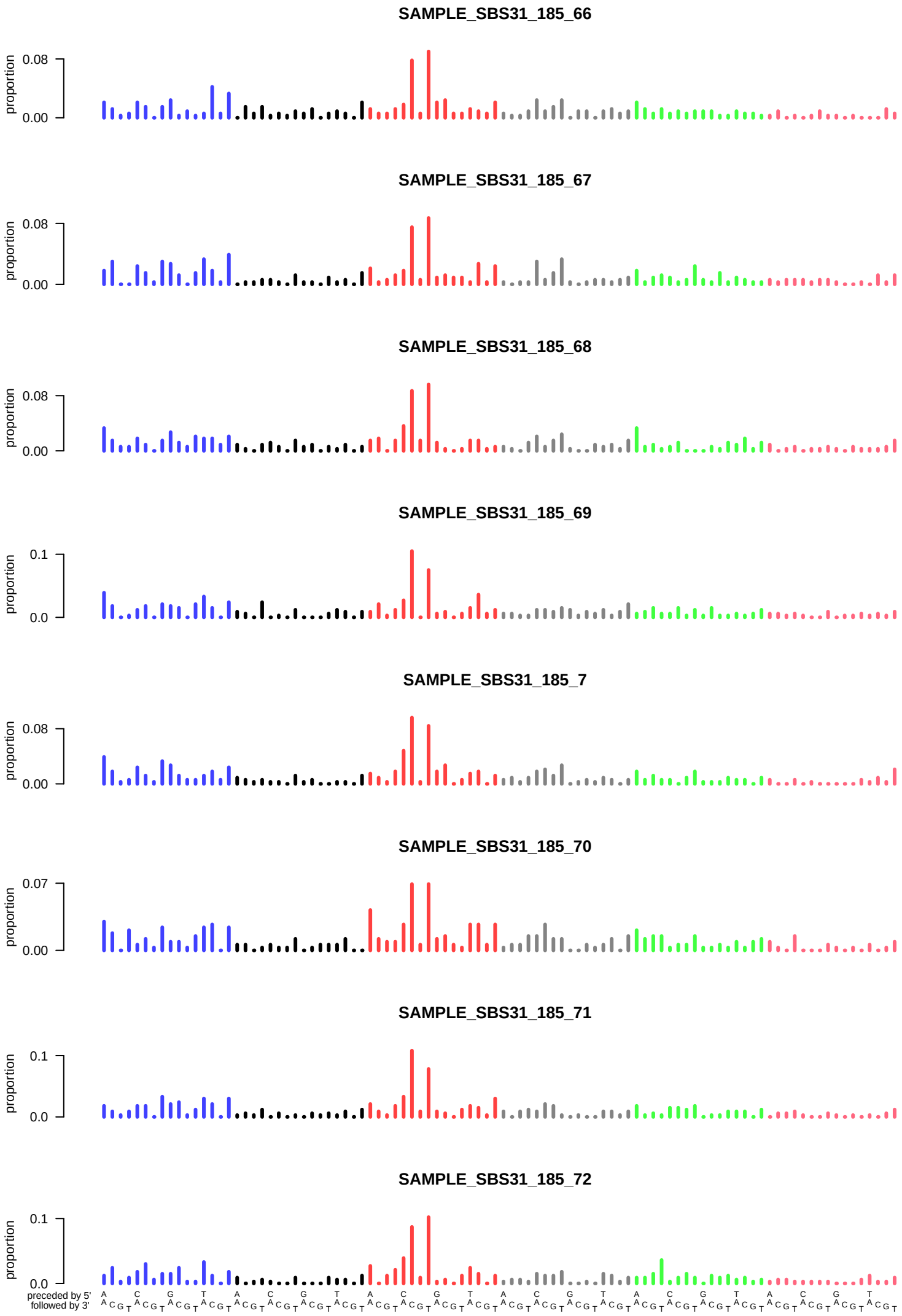
followed by 3'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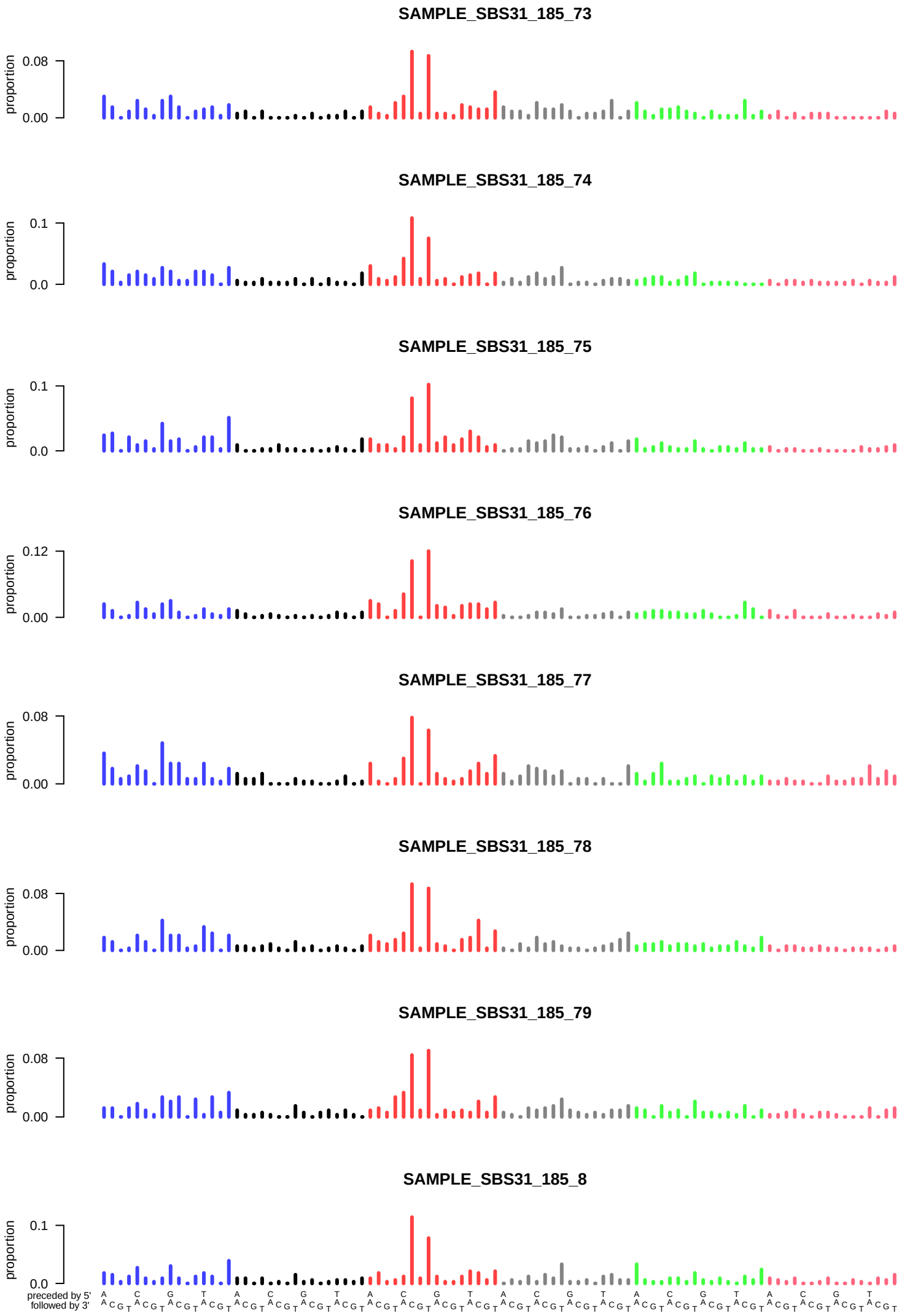
followed by 3'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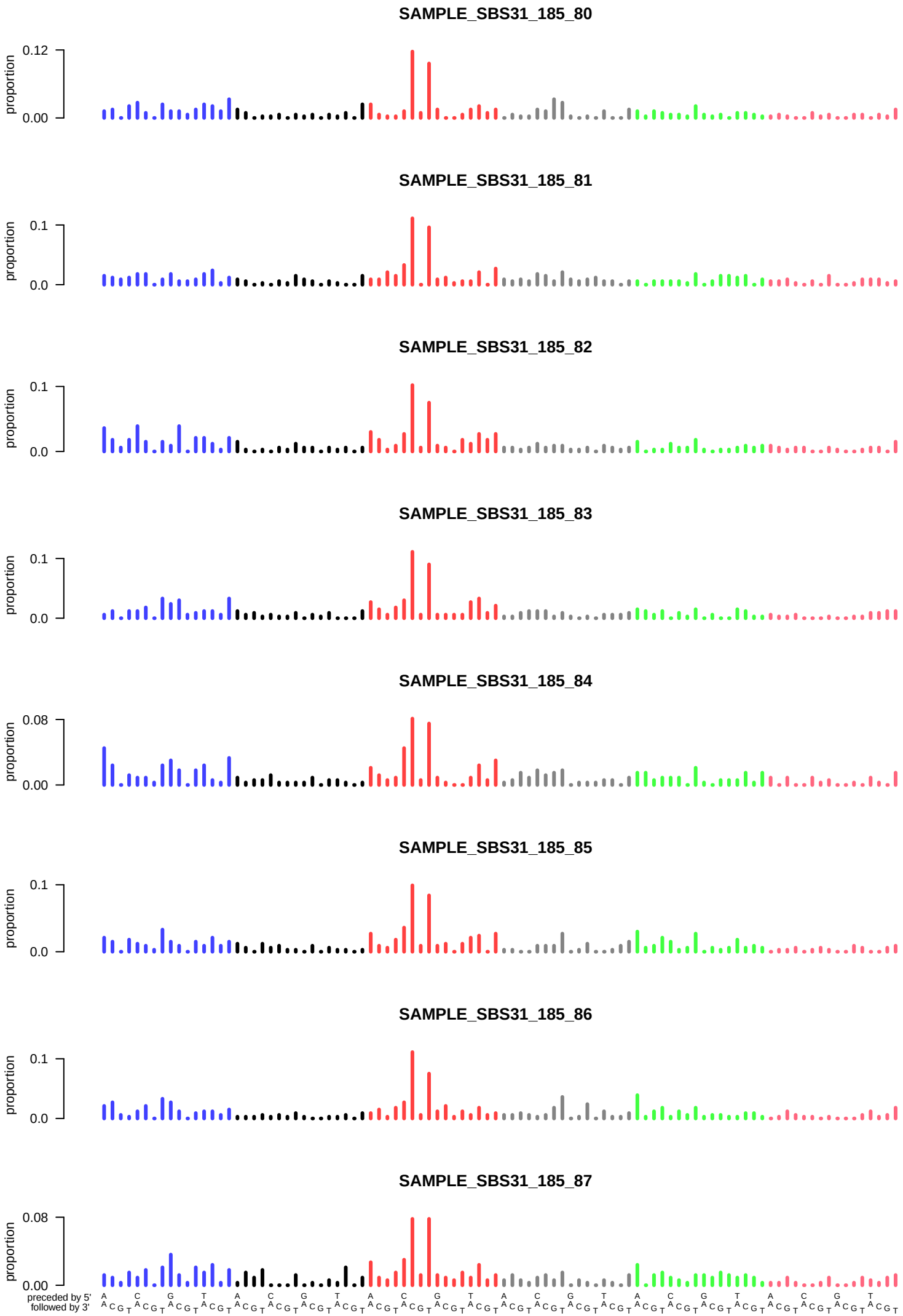
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SAMPLE_SBS31_185_86
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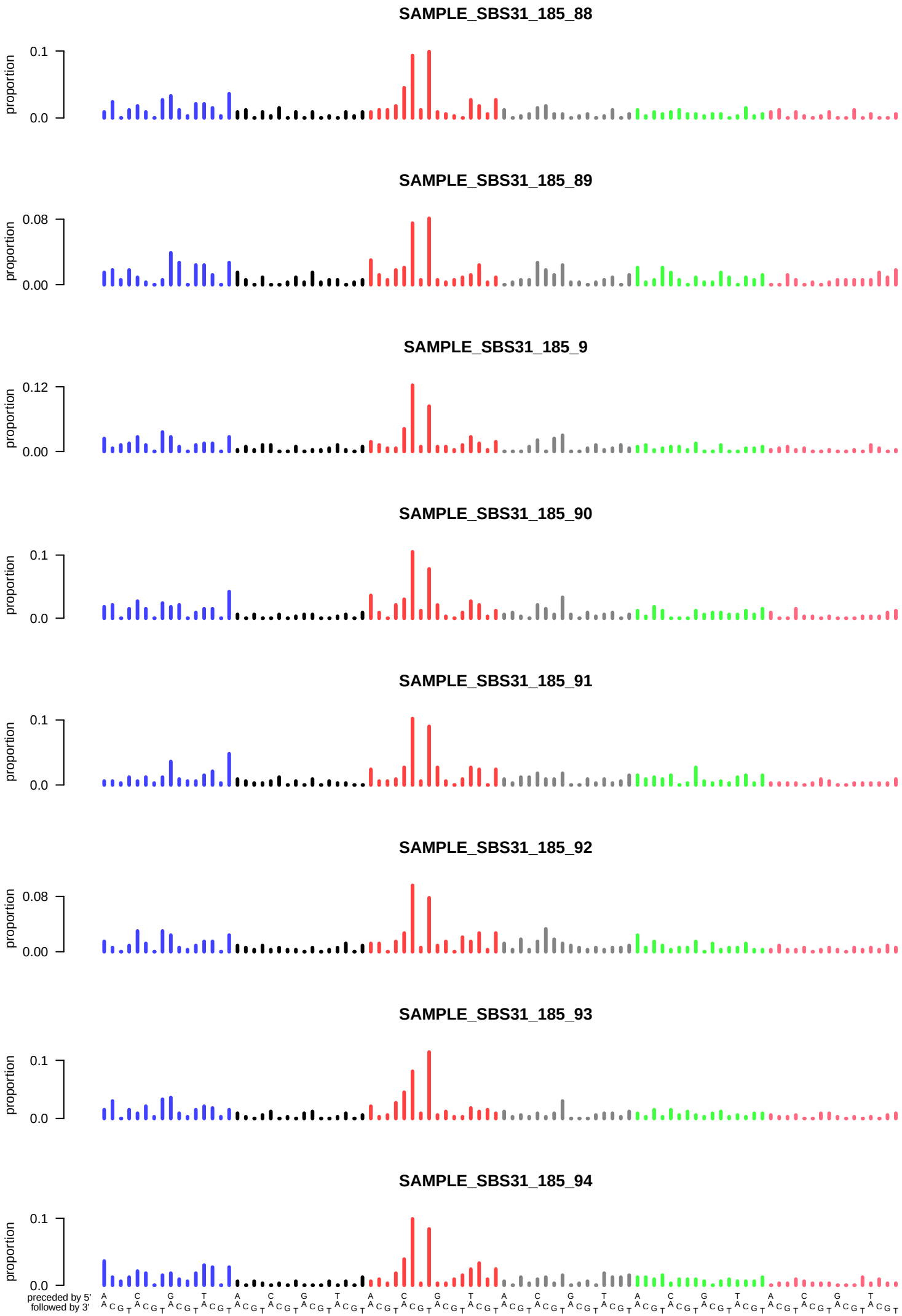
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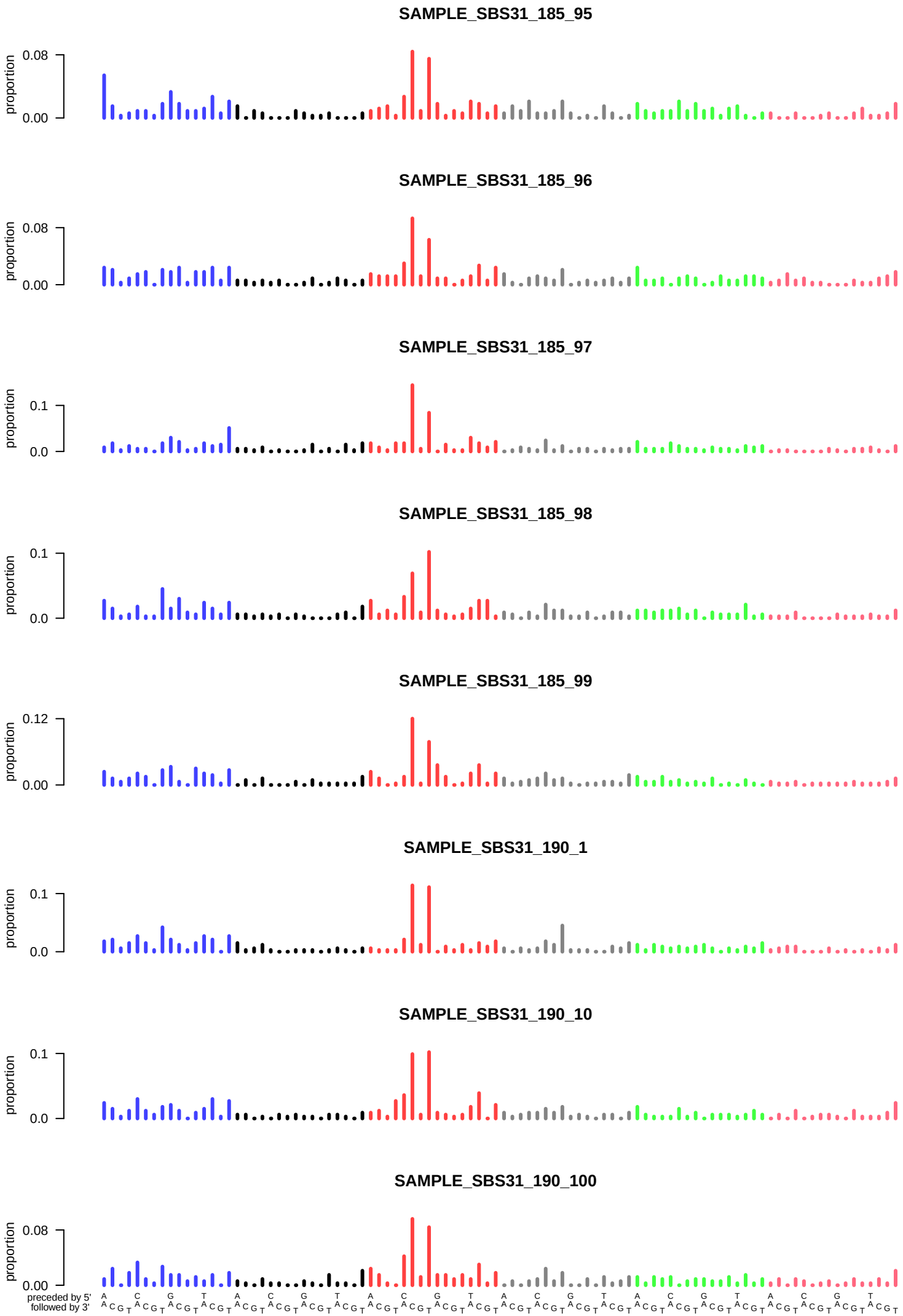
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SAMPLE_SBS31_190_10
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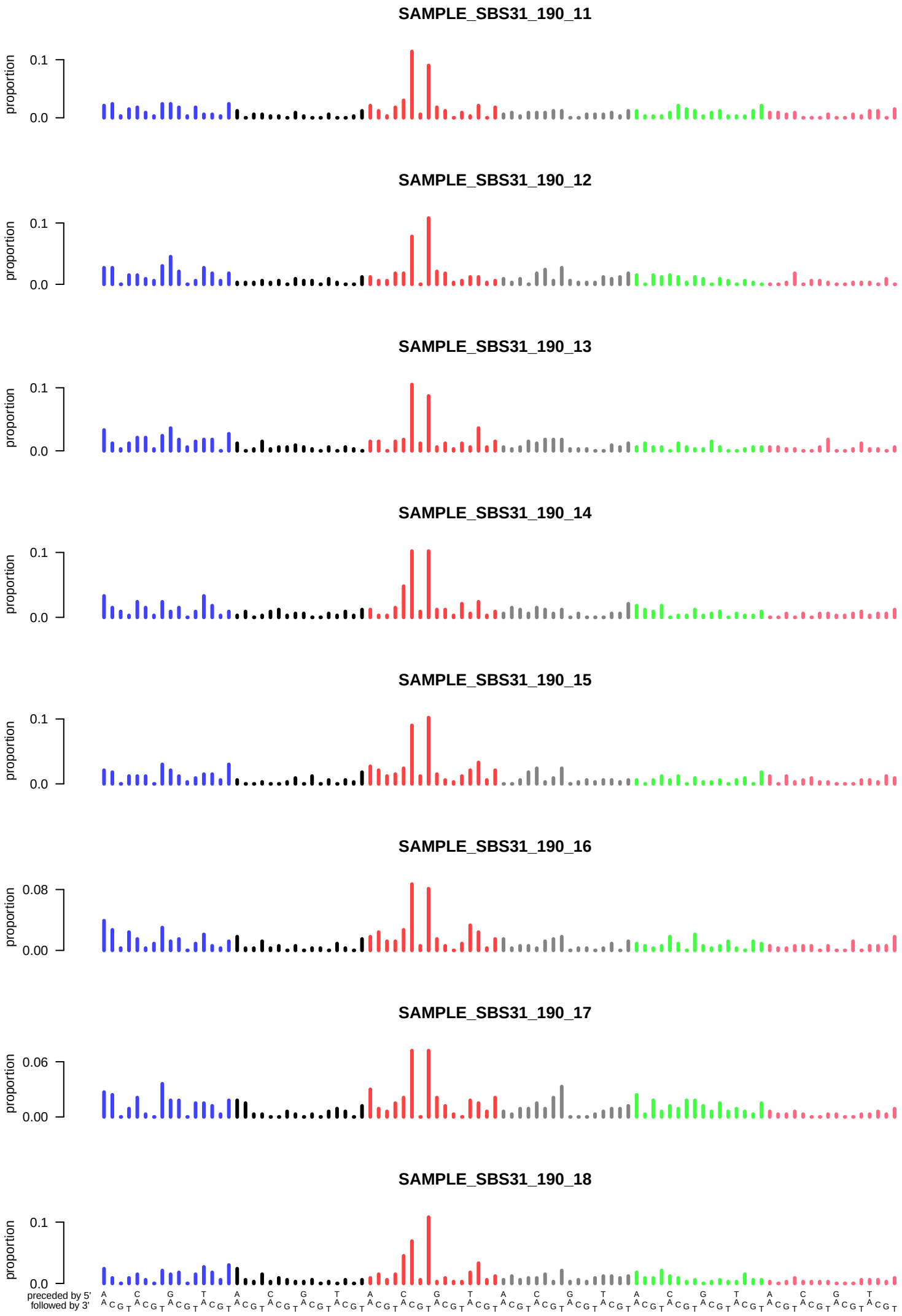
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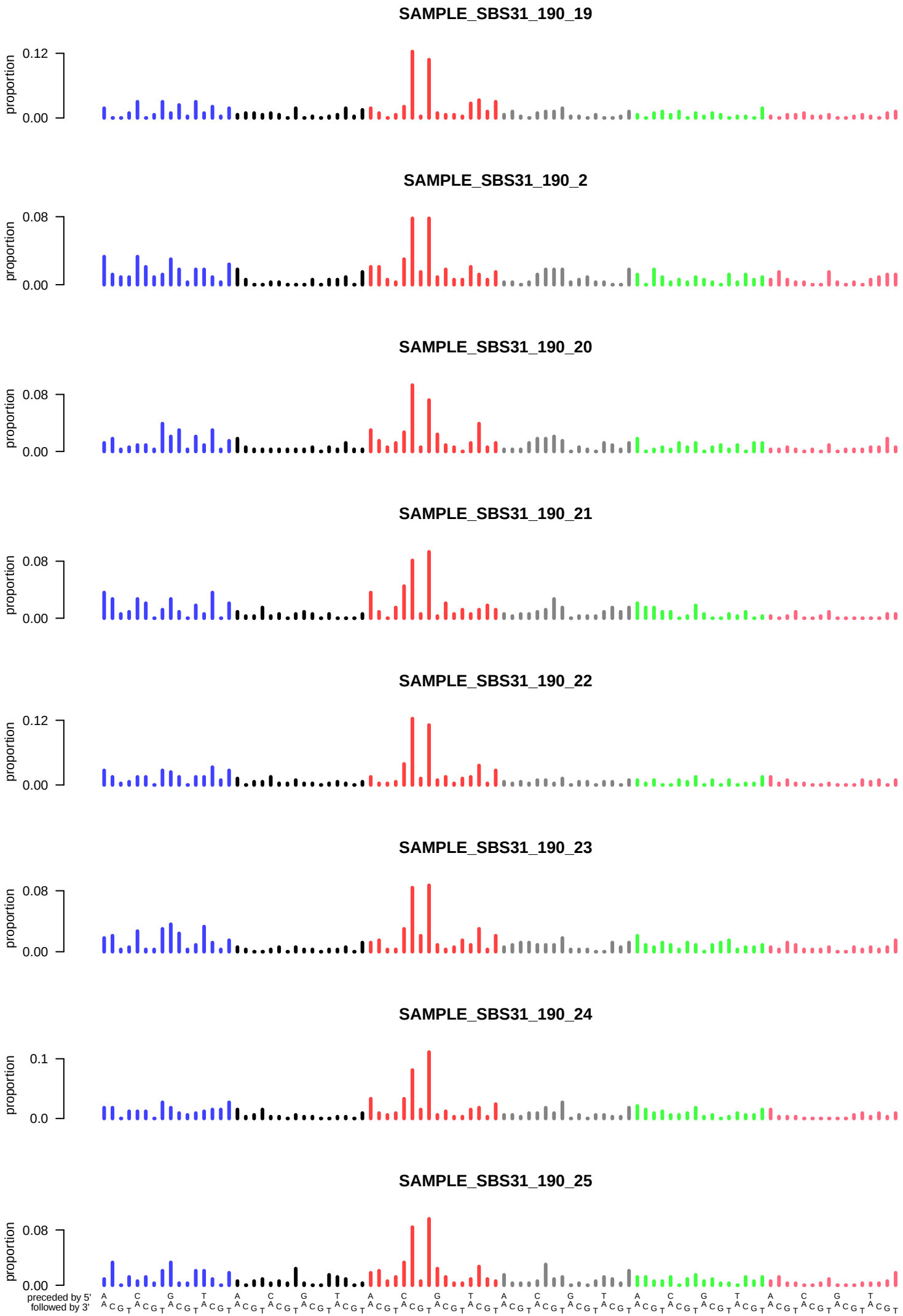
followed by 3'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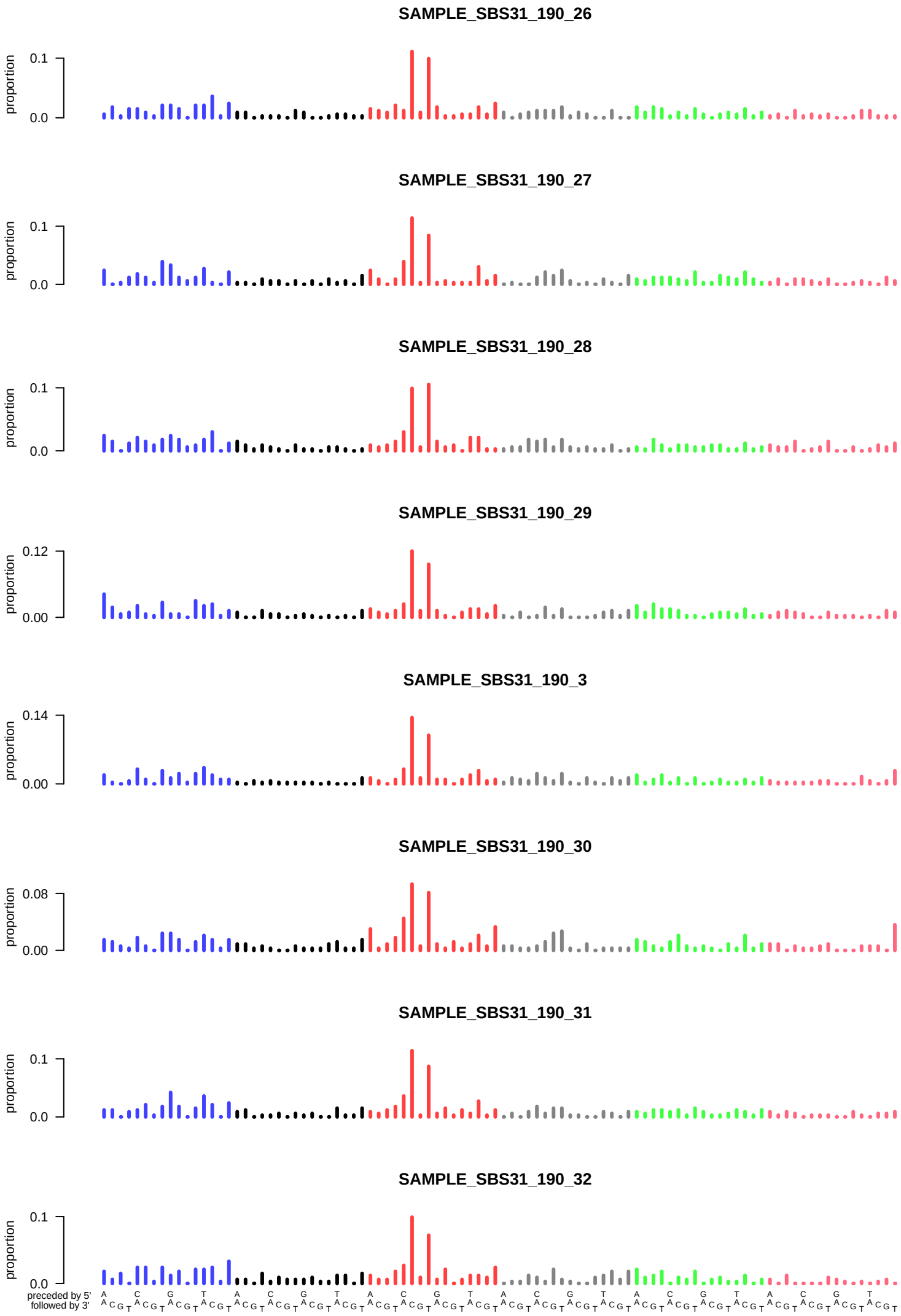
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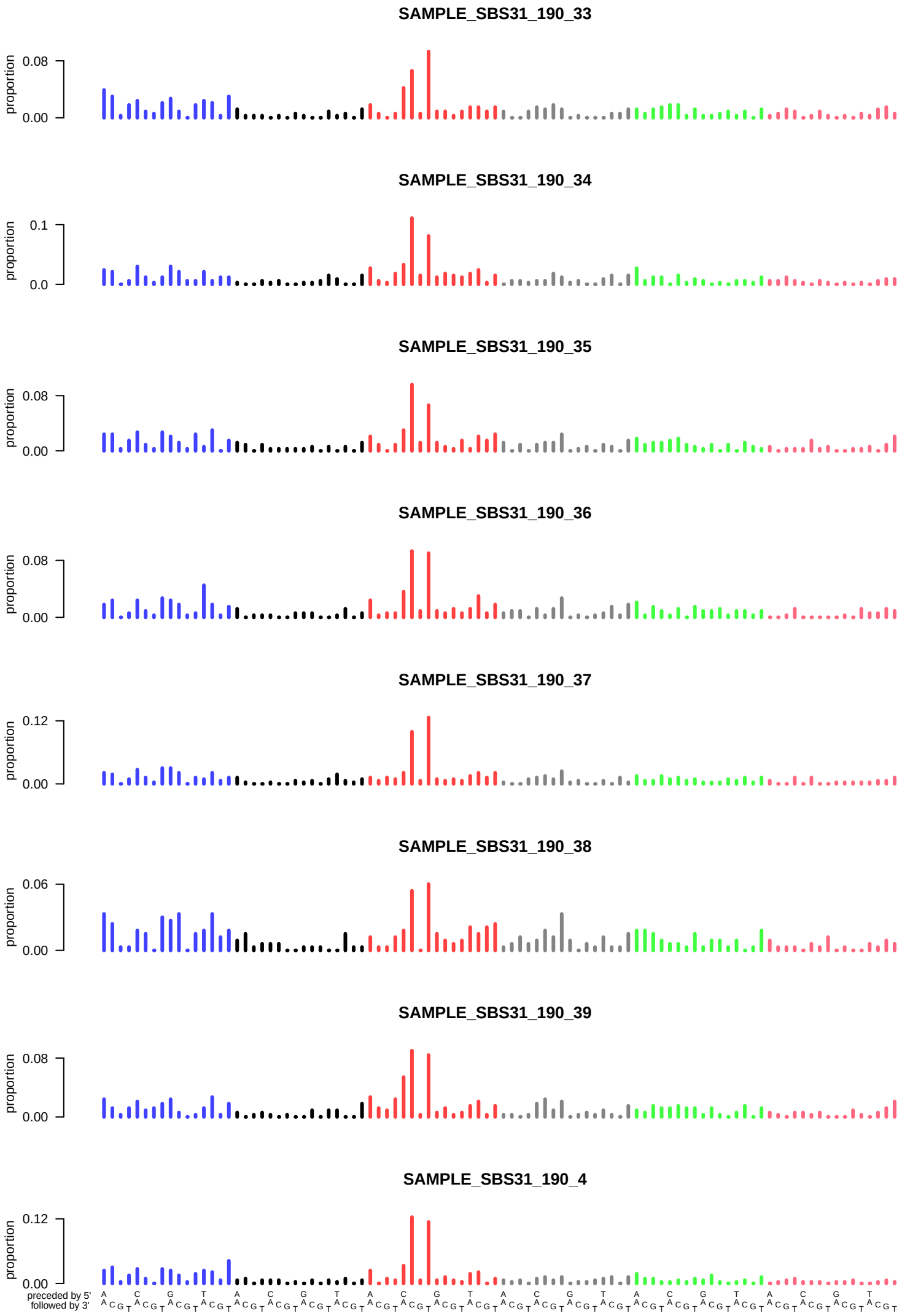
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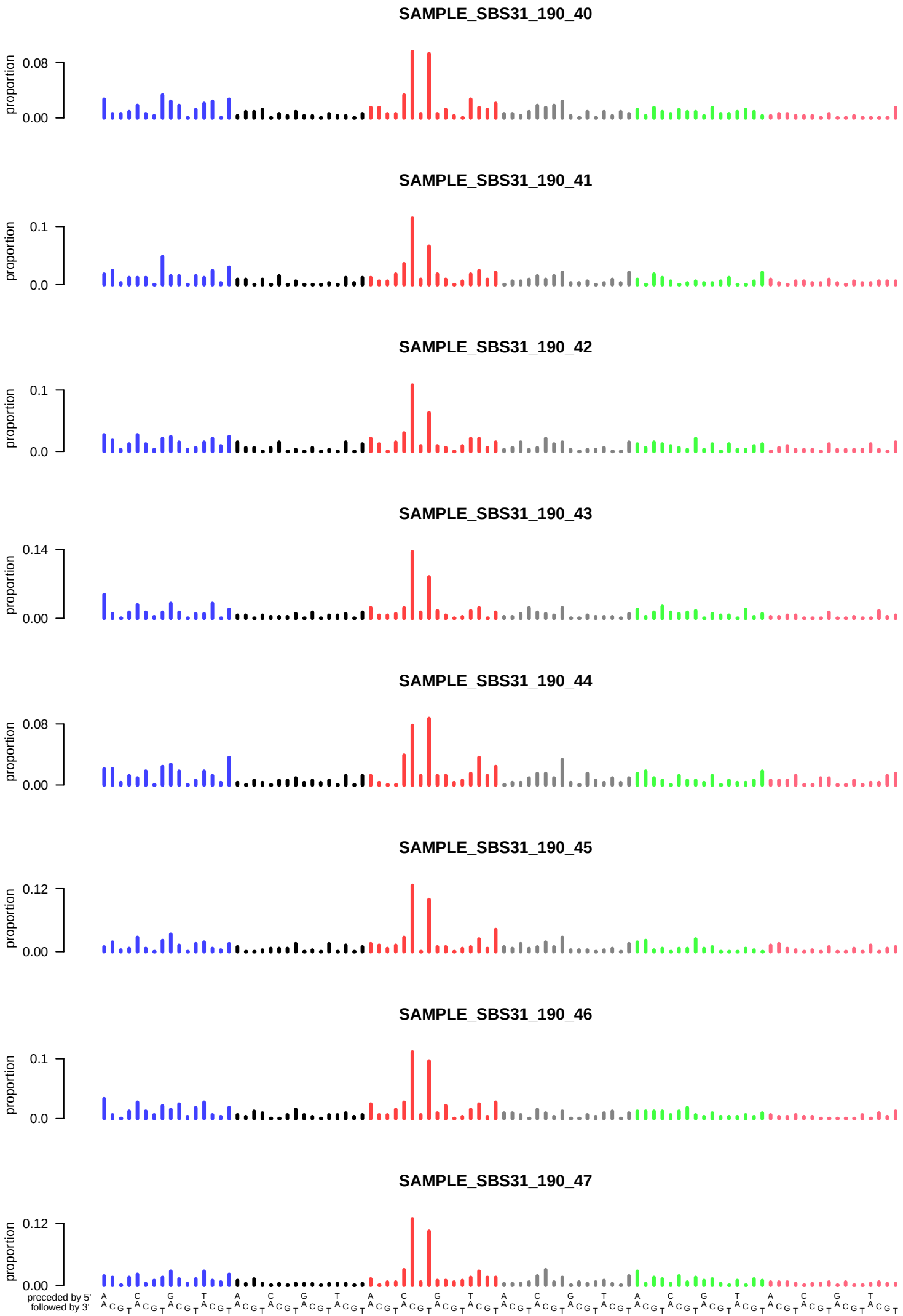
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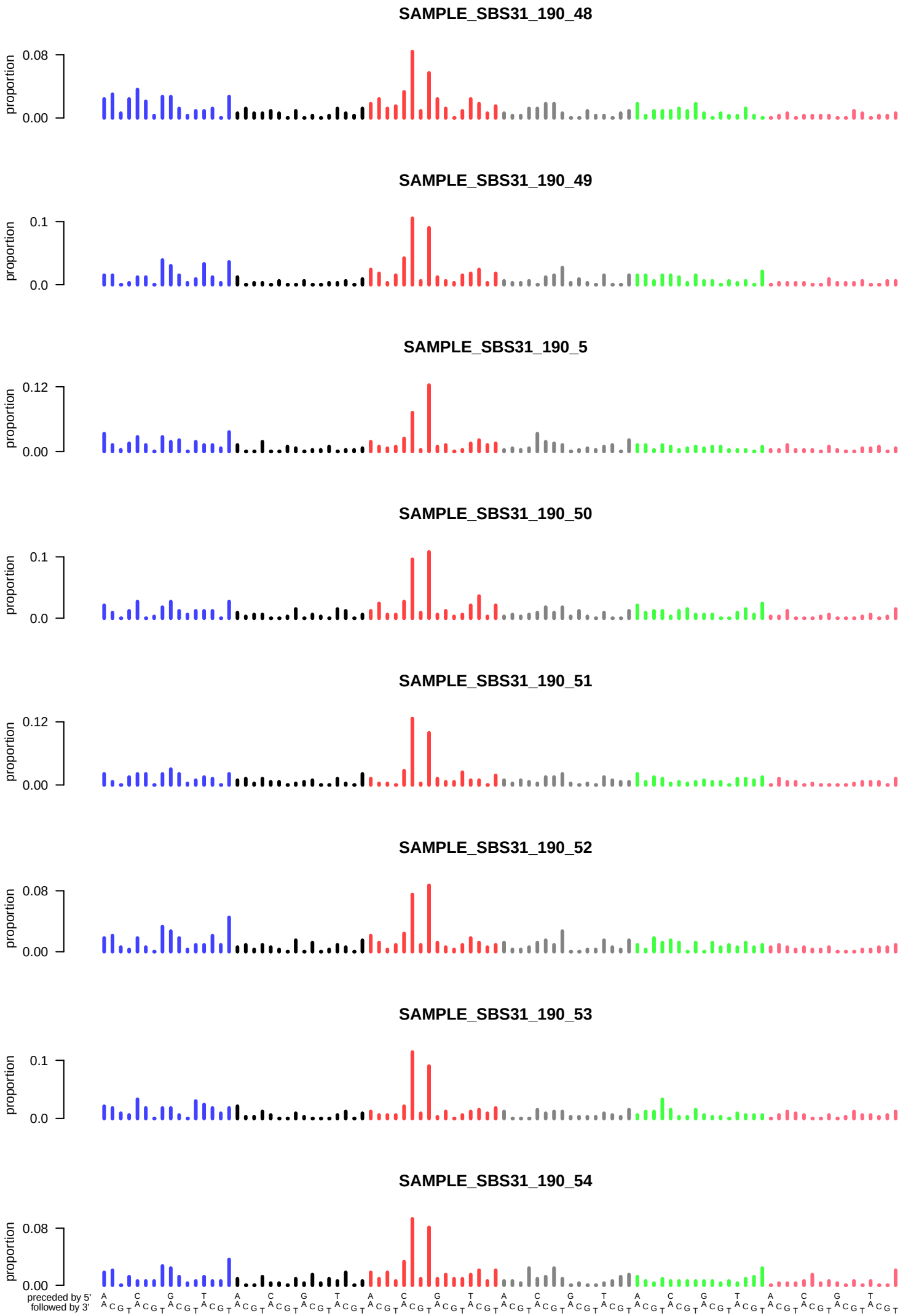
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SAMPLE_SBS31_190_52
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SAMPLE_SBS31_190_53
proportion
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SAMPLE_SBS31_190_54
proportion
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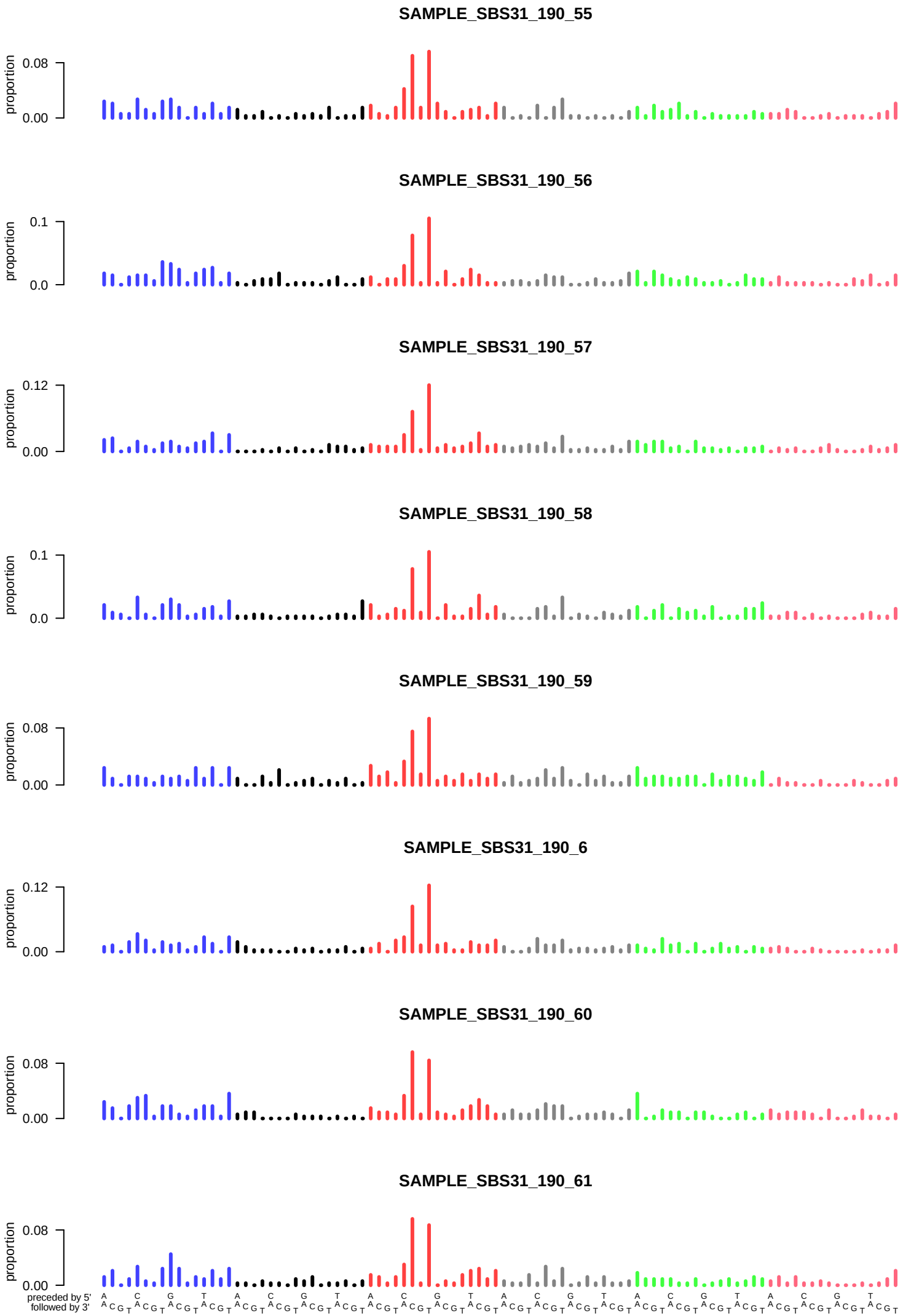
followed by 3'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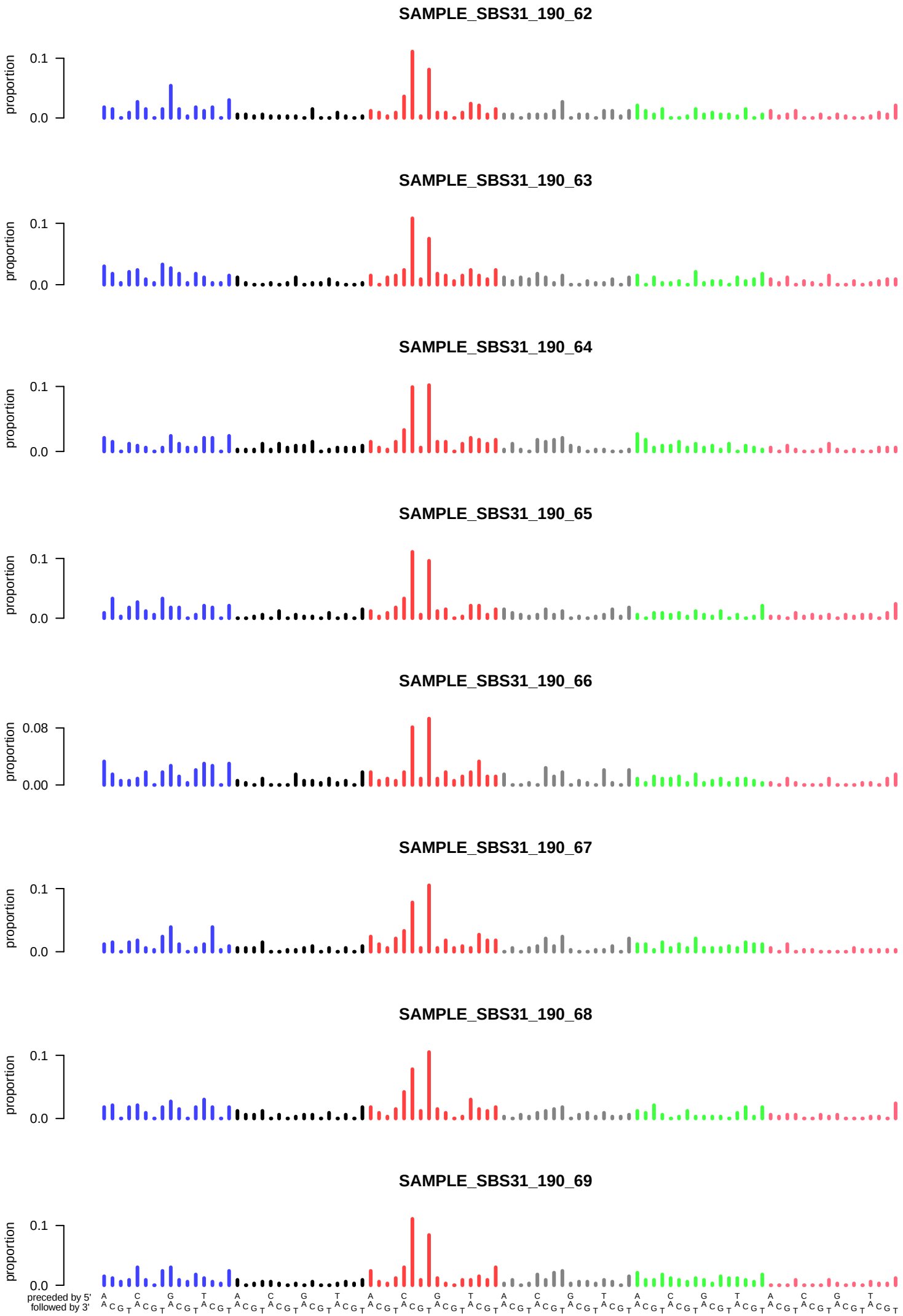
followed by 3'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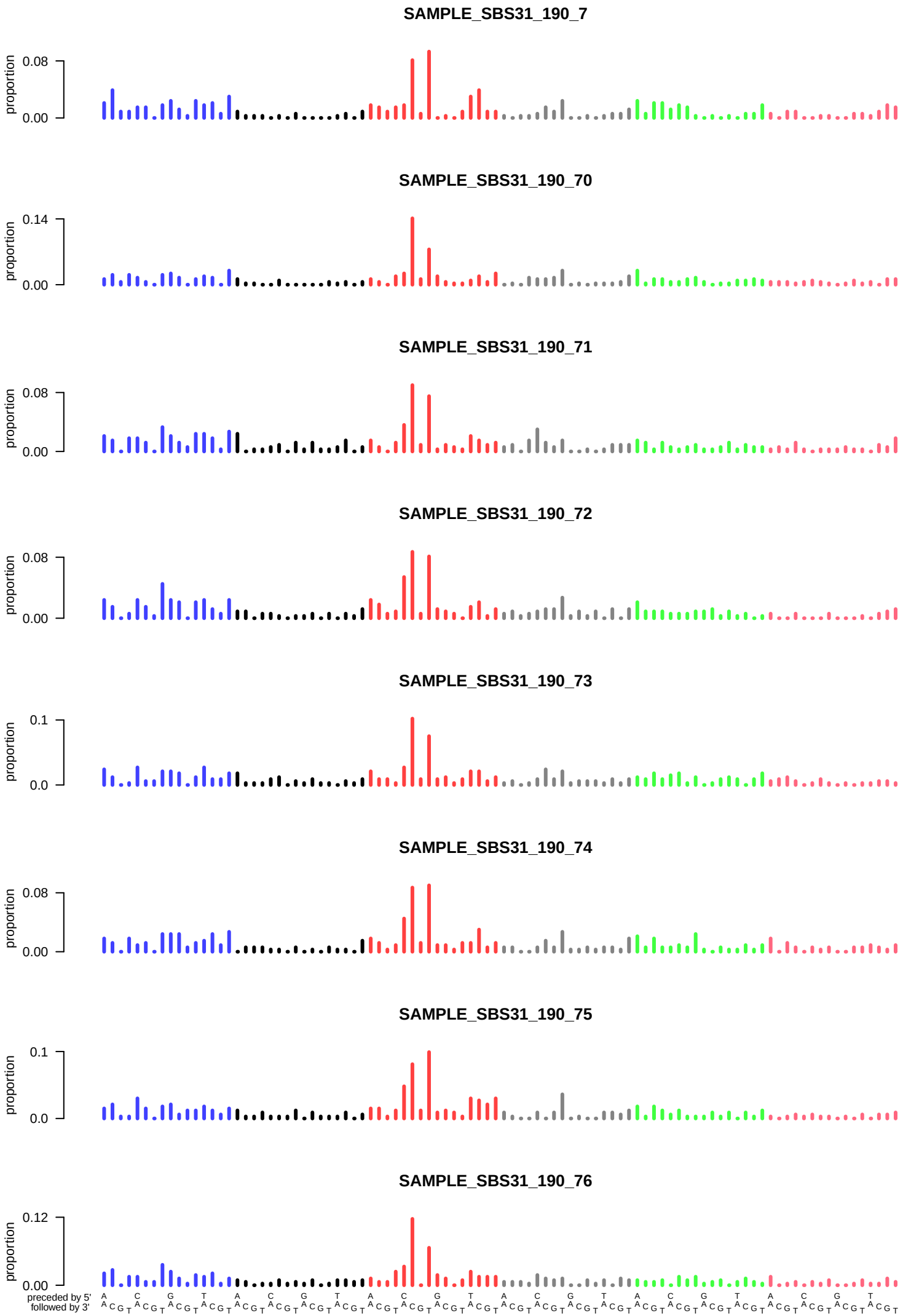
followed by 3'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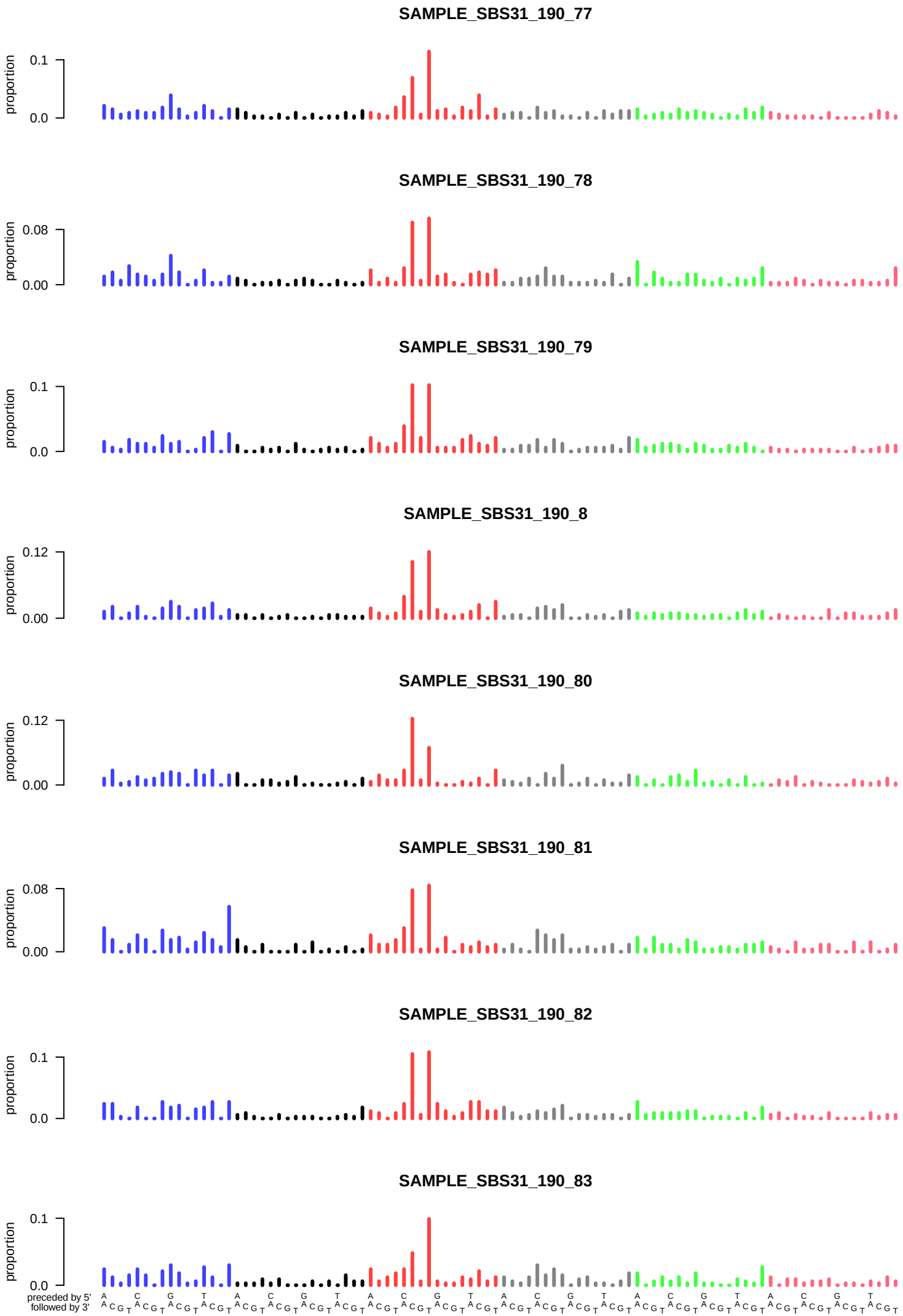
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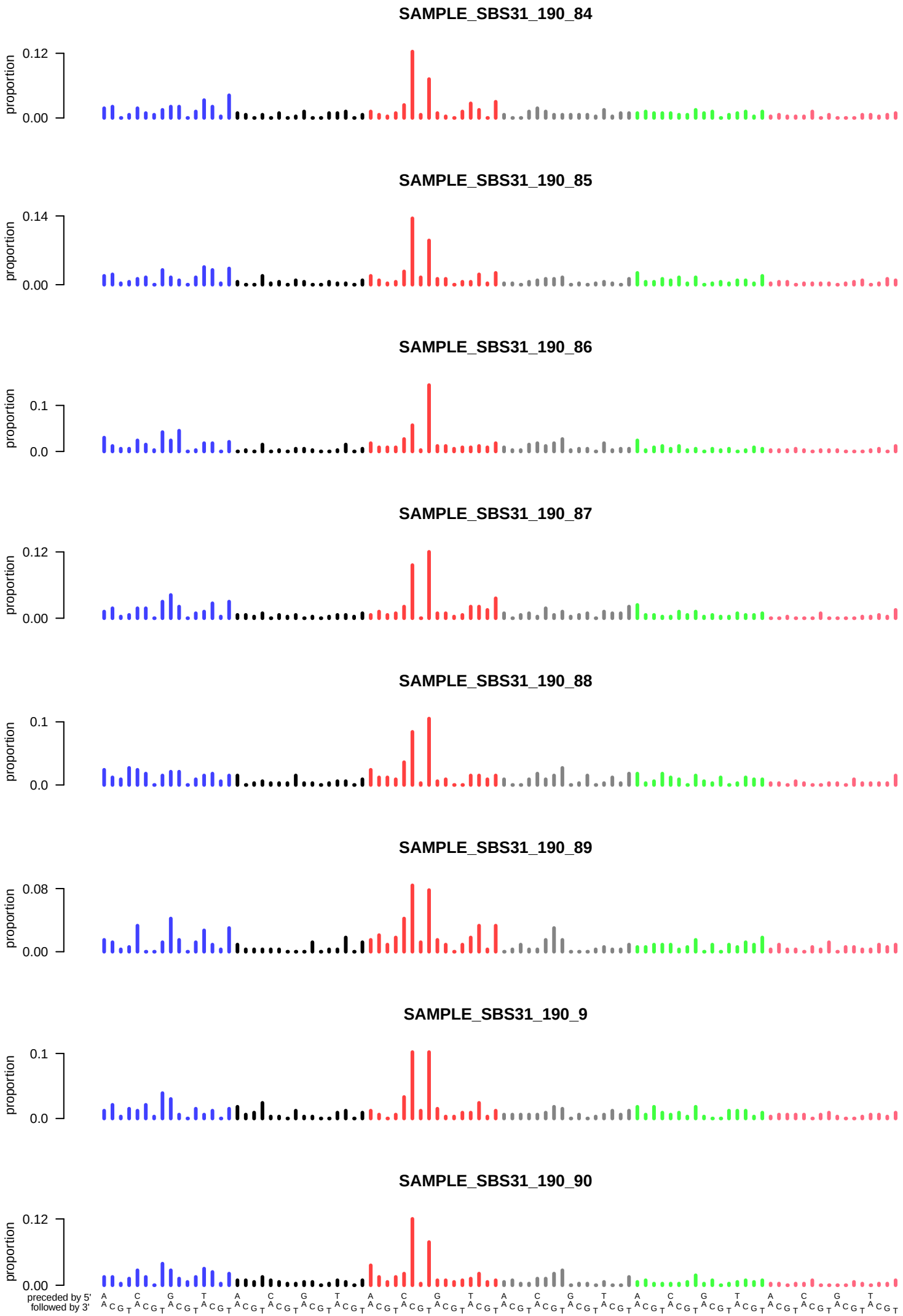
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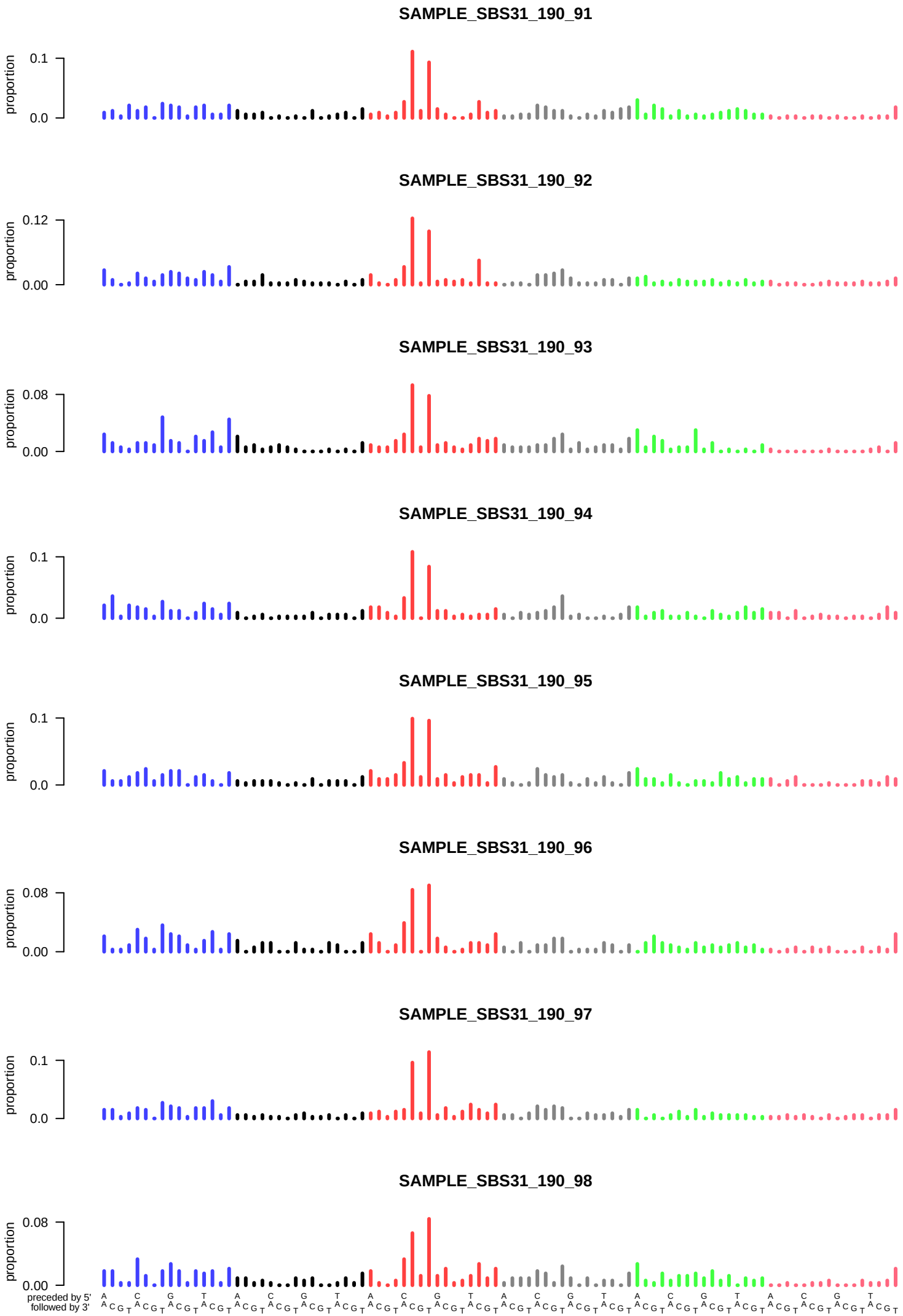
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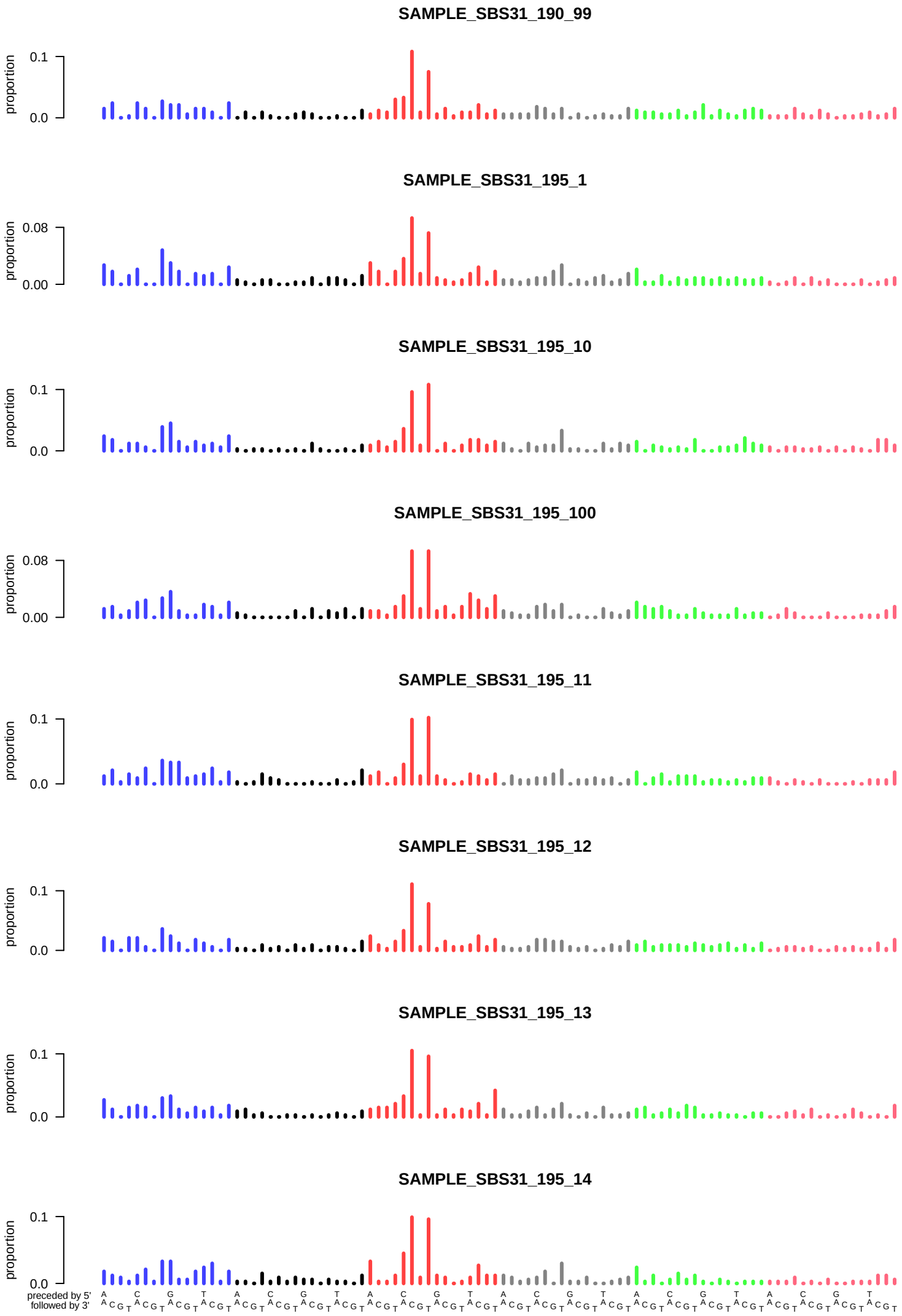
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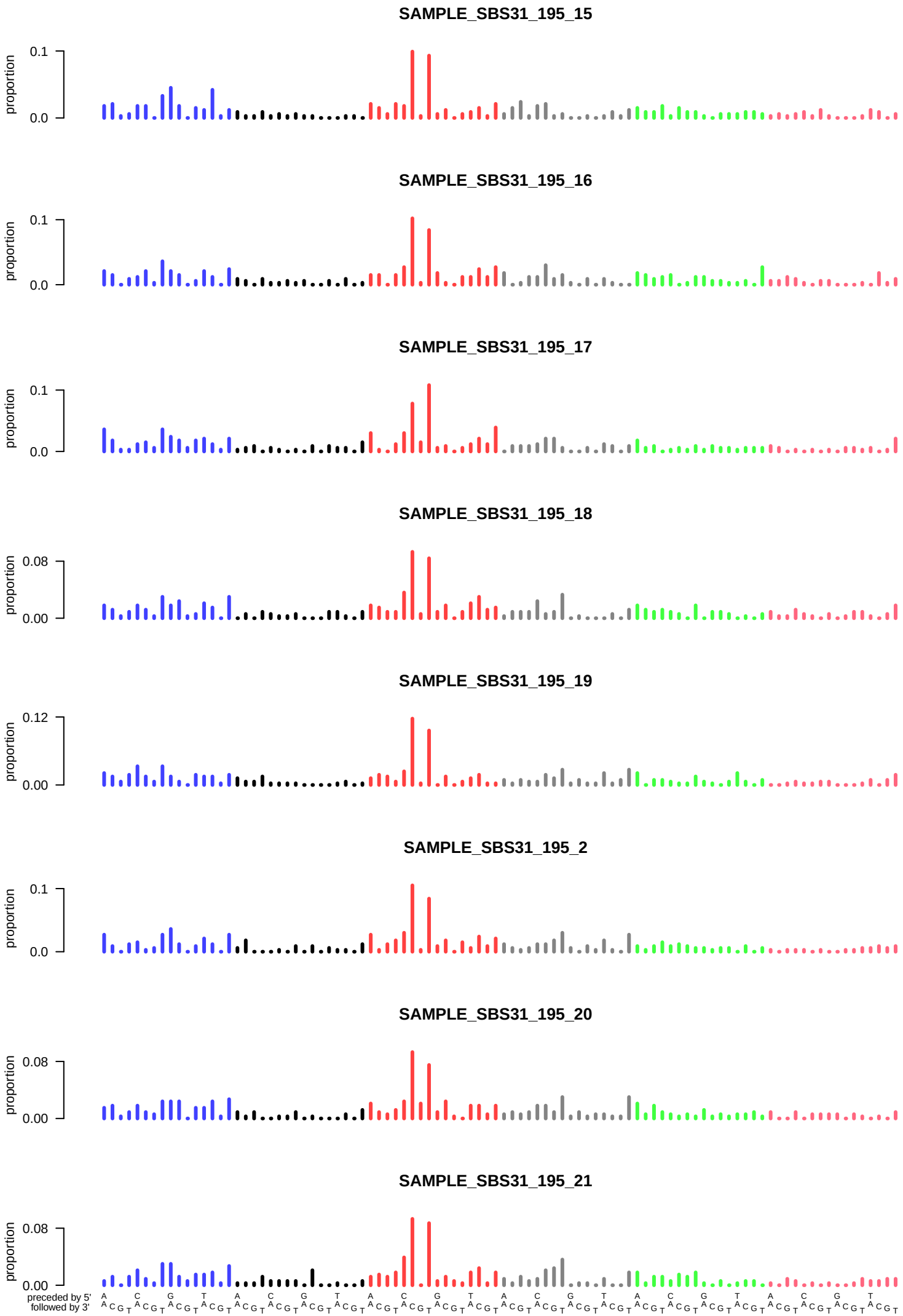
A C G T A C G T A C G T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SAMPLE_SBS31_195_20
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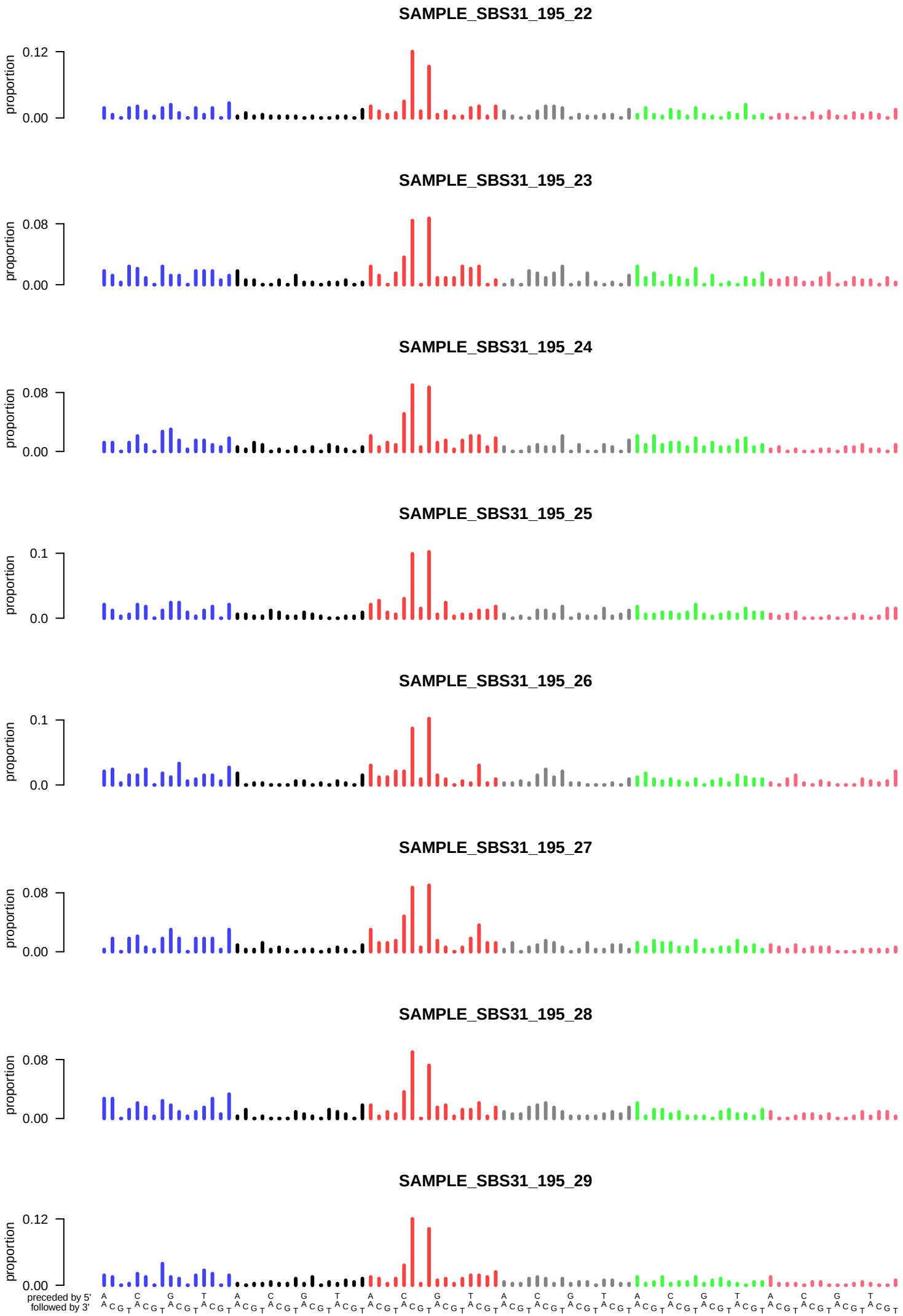
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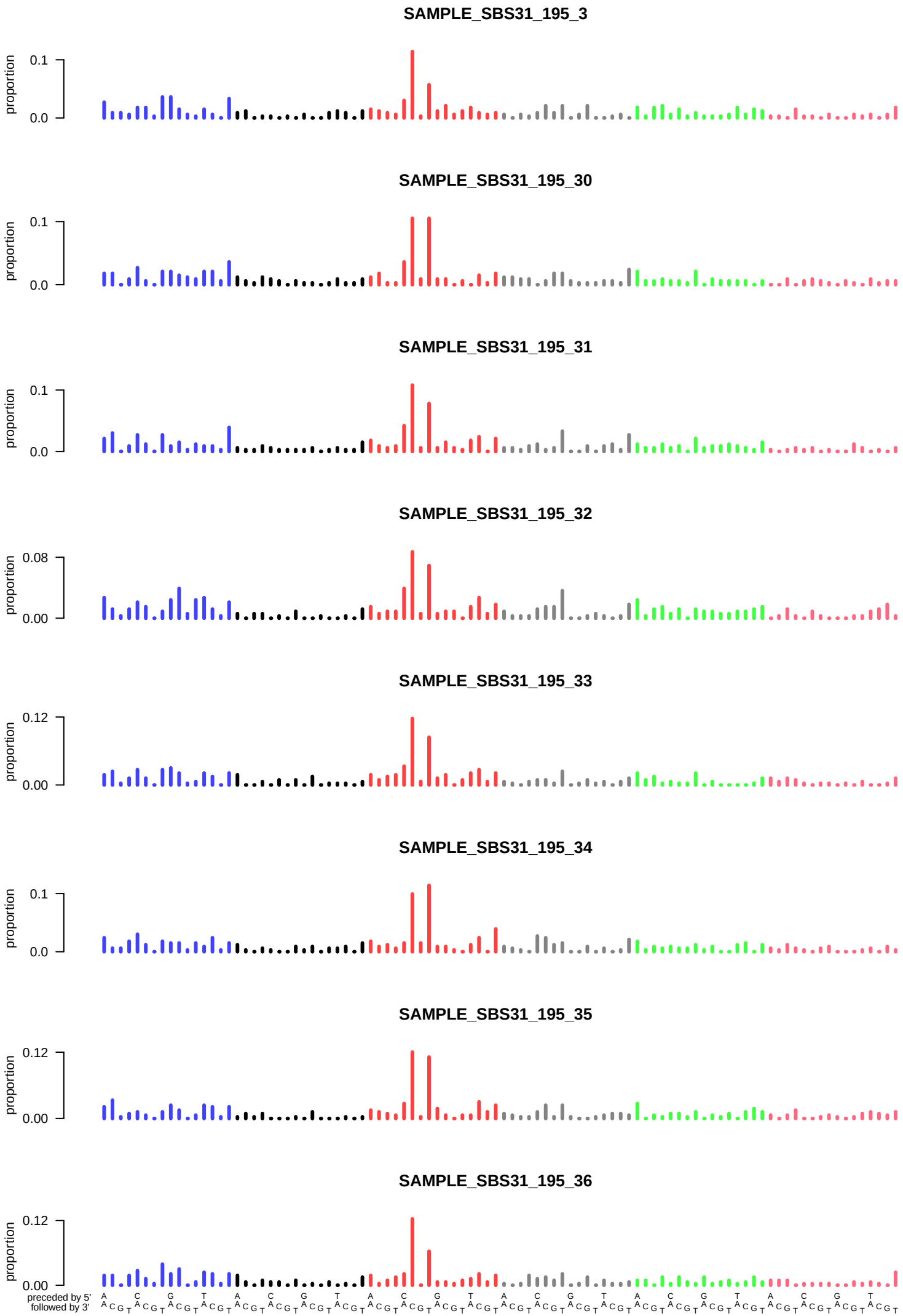
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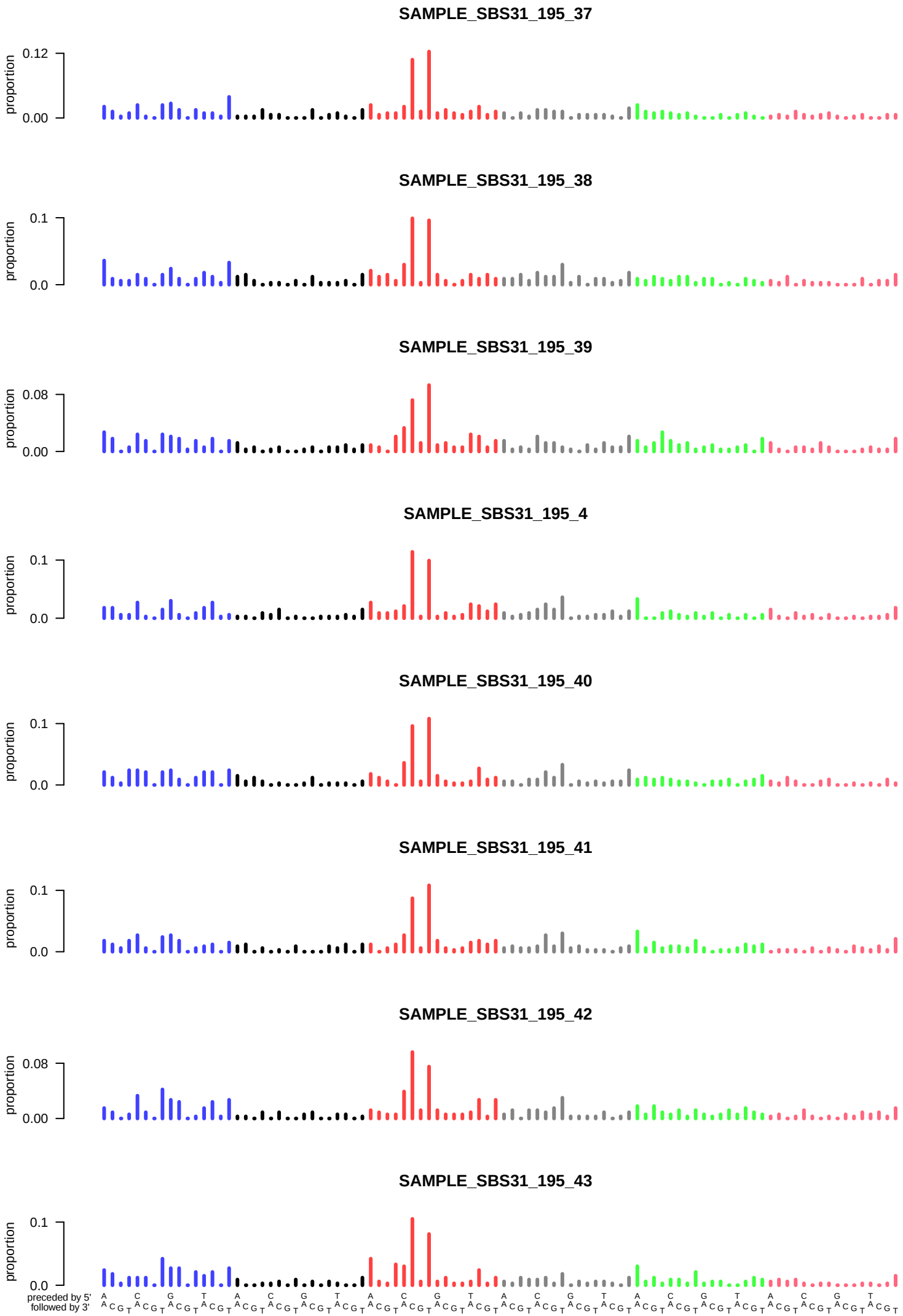
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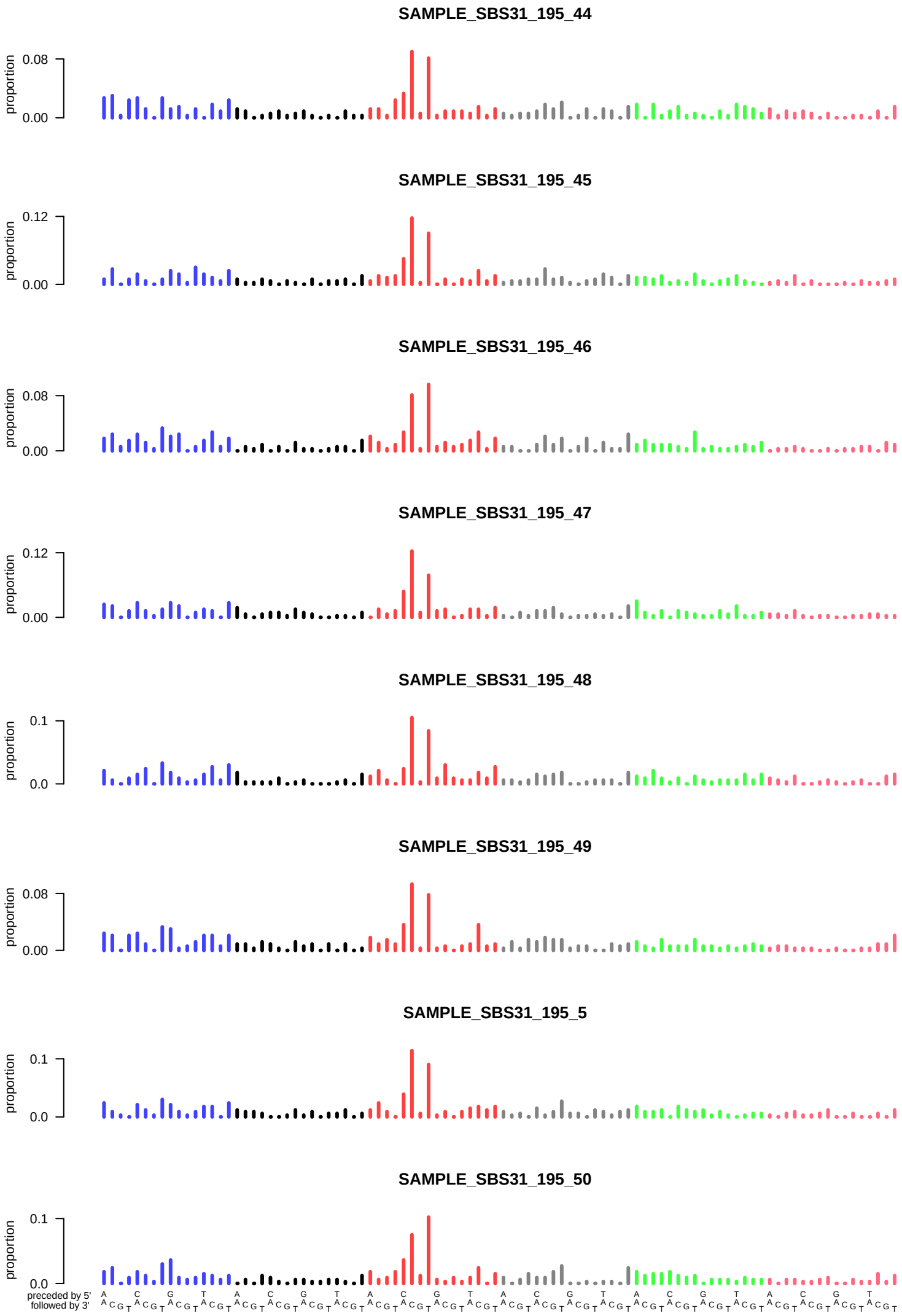
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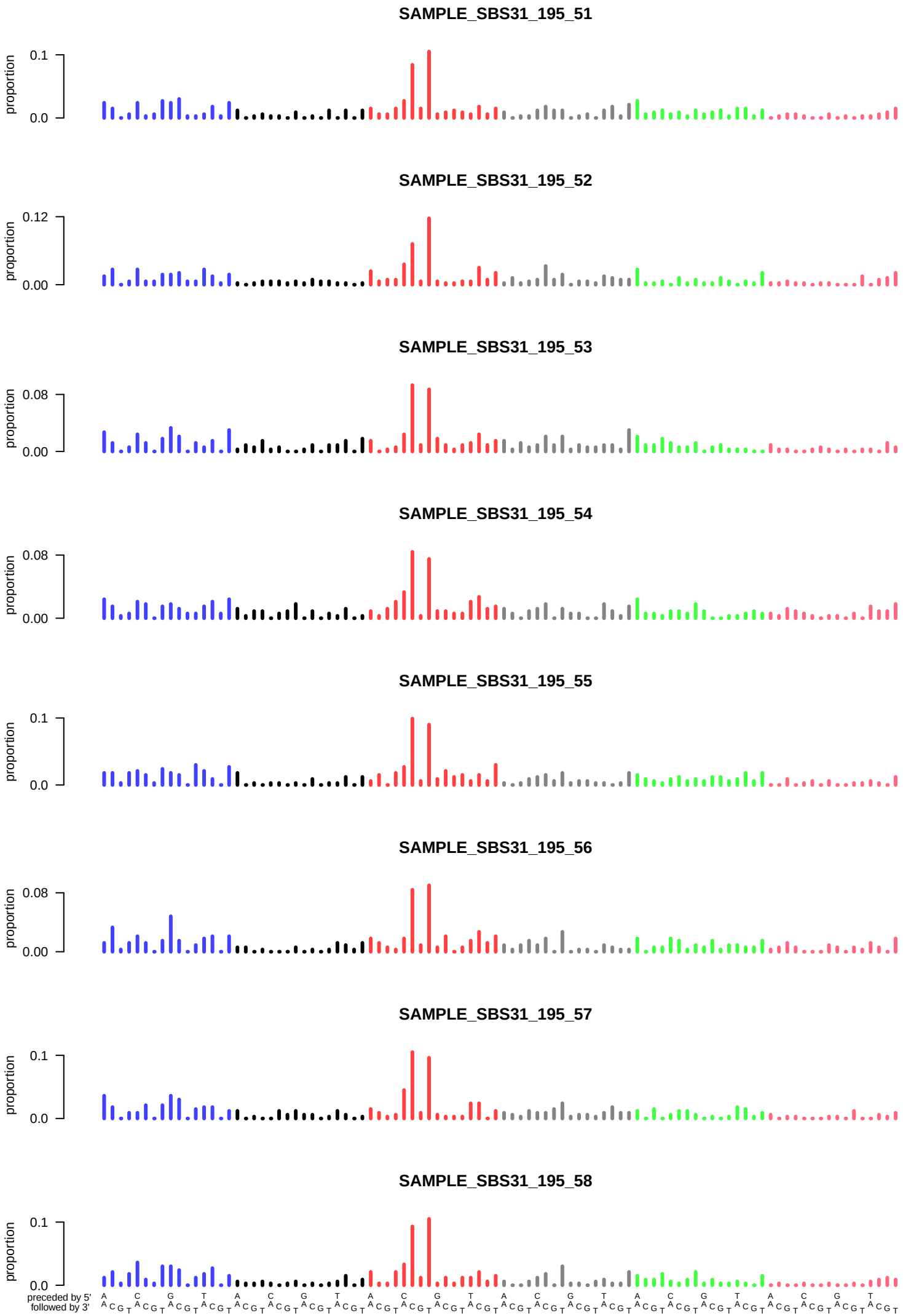
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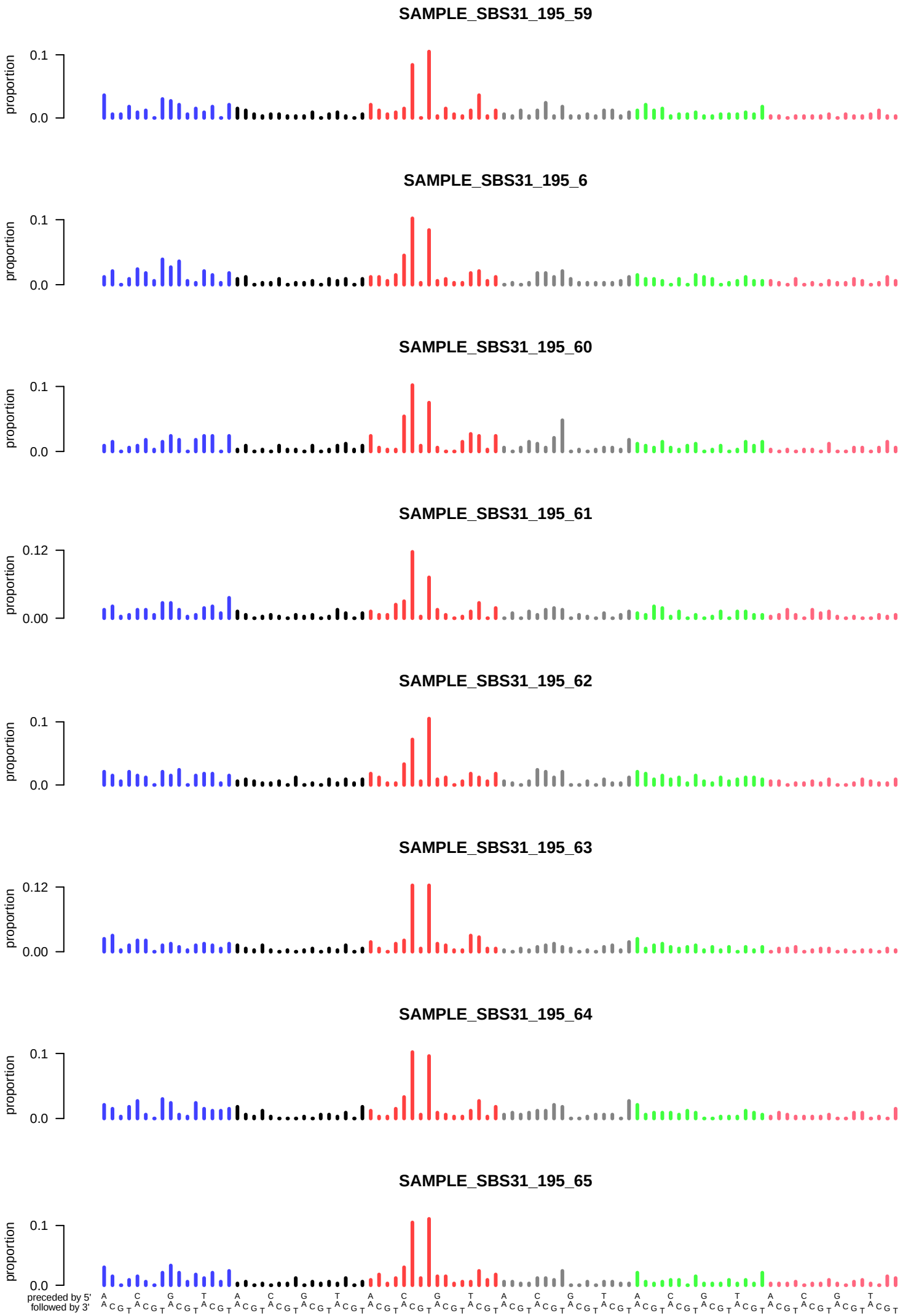
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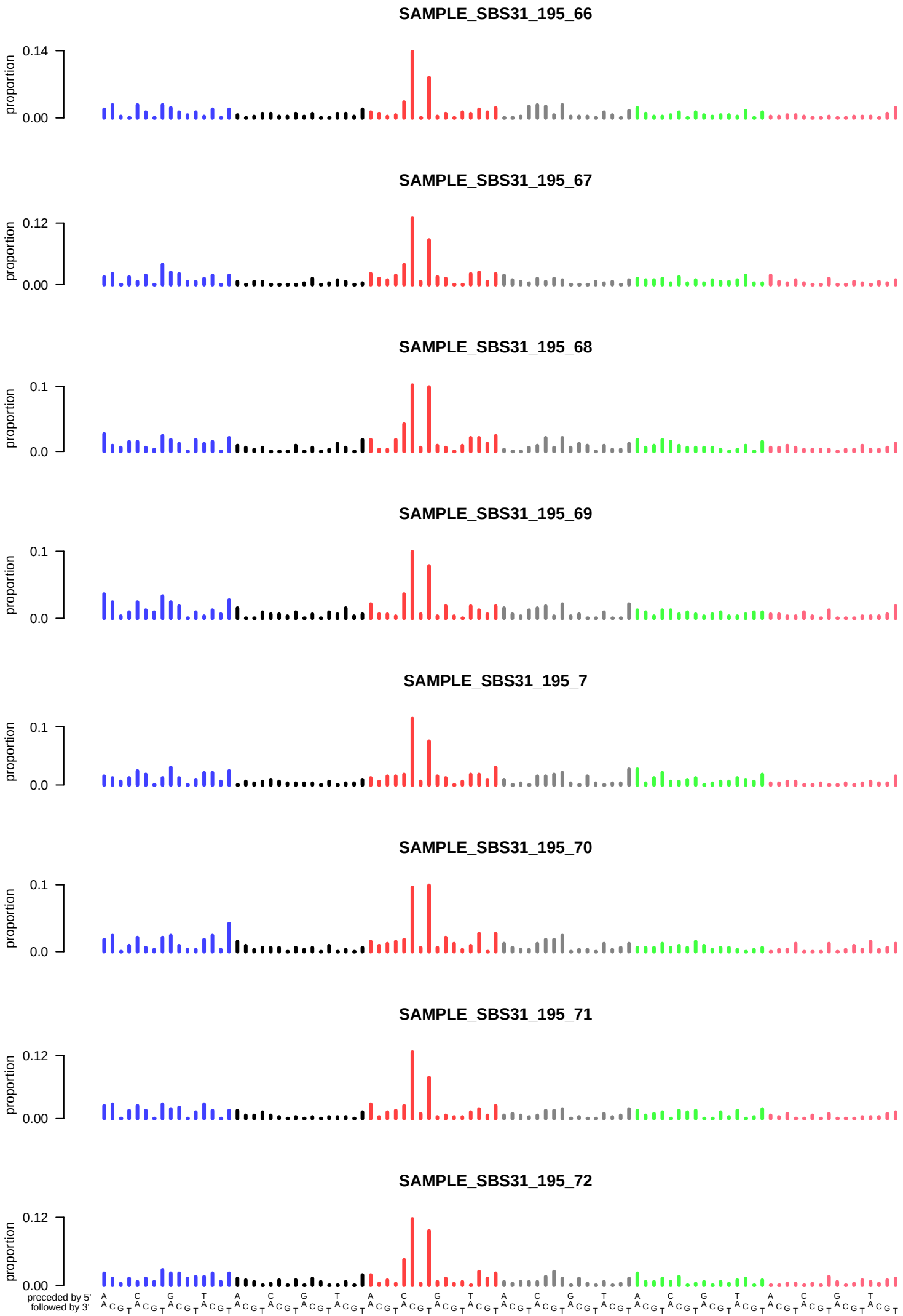
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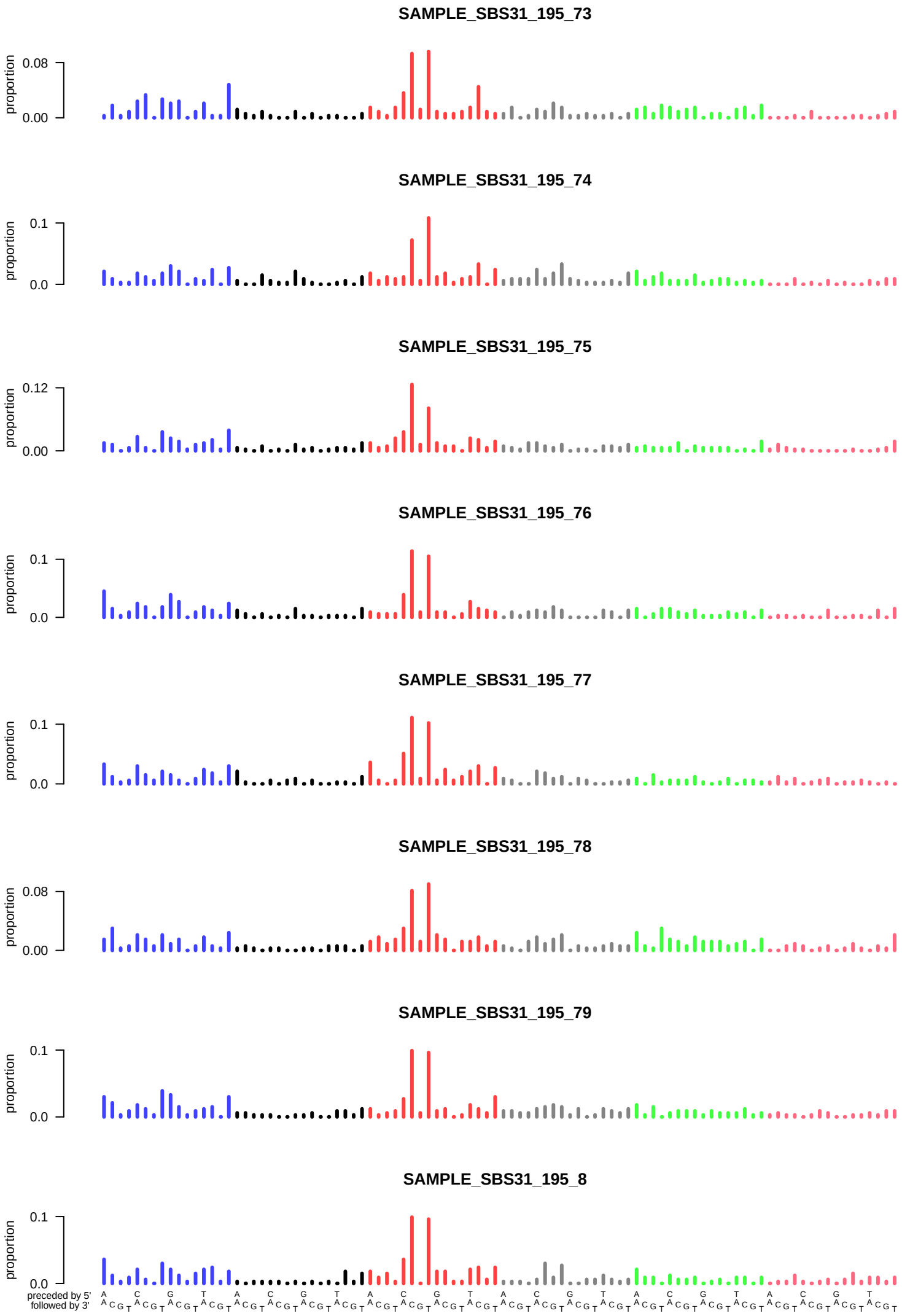
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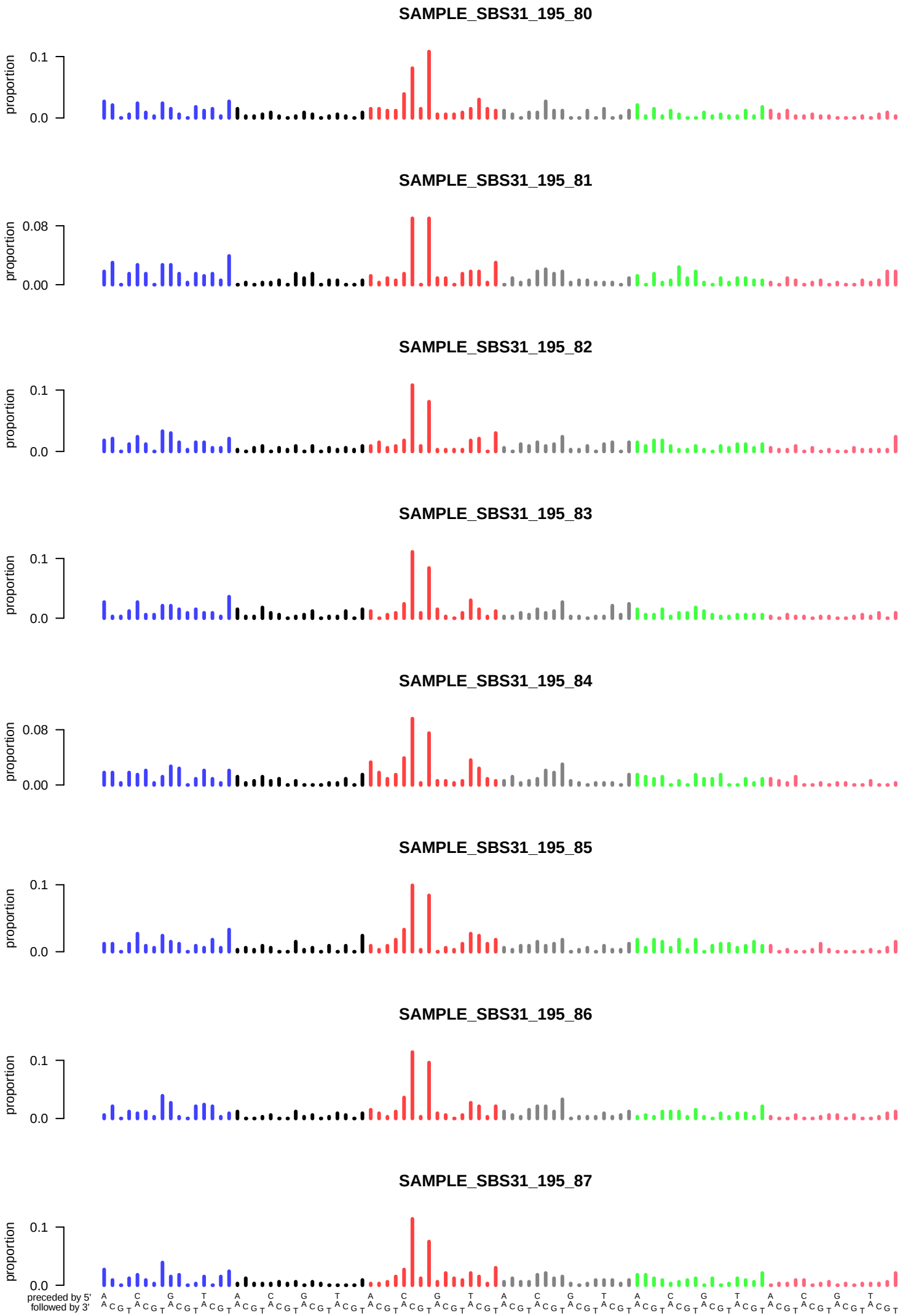
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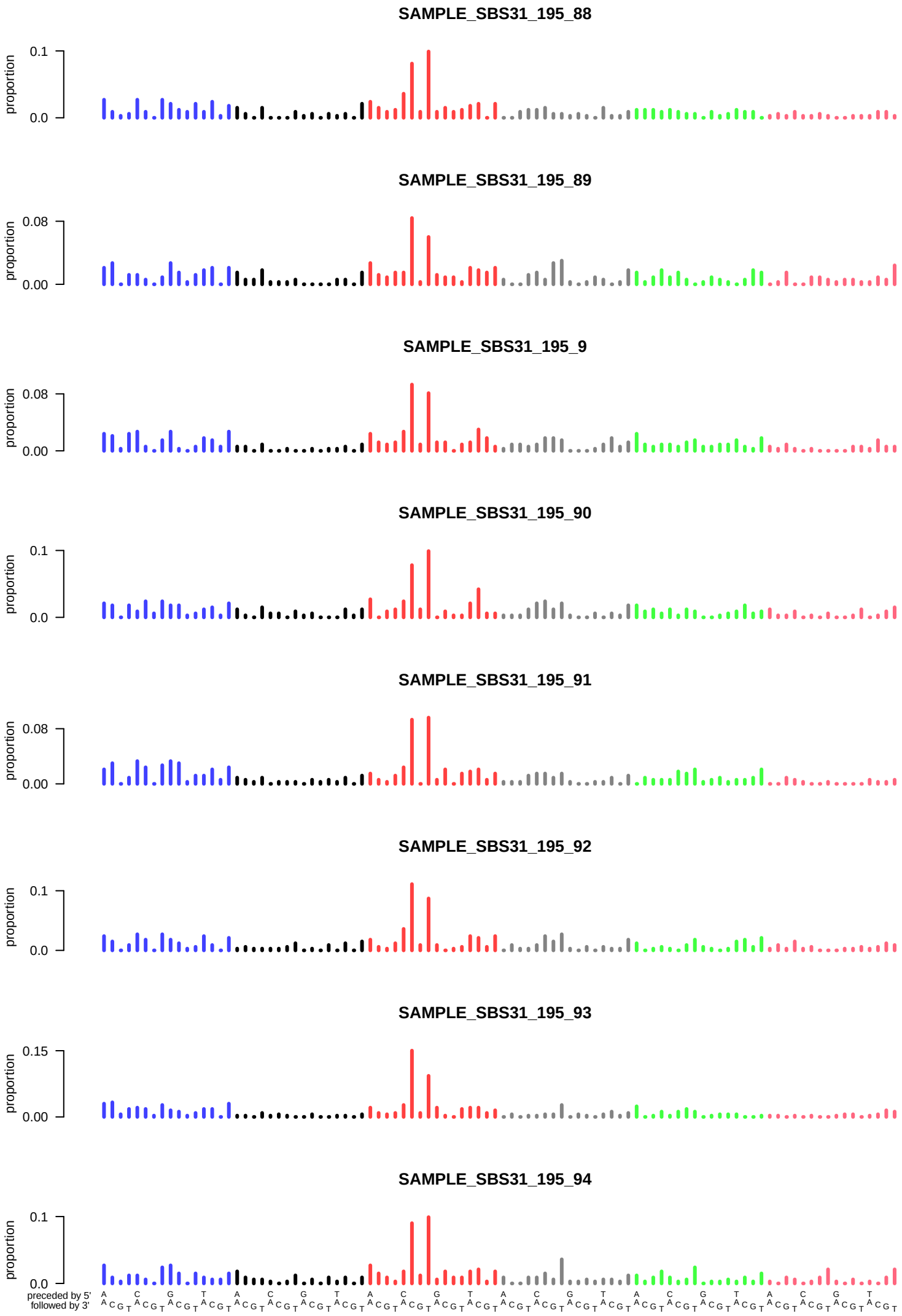
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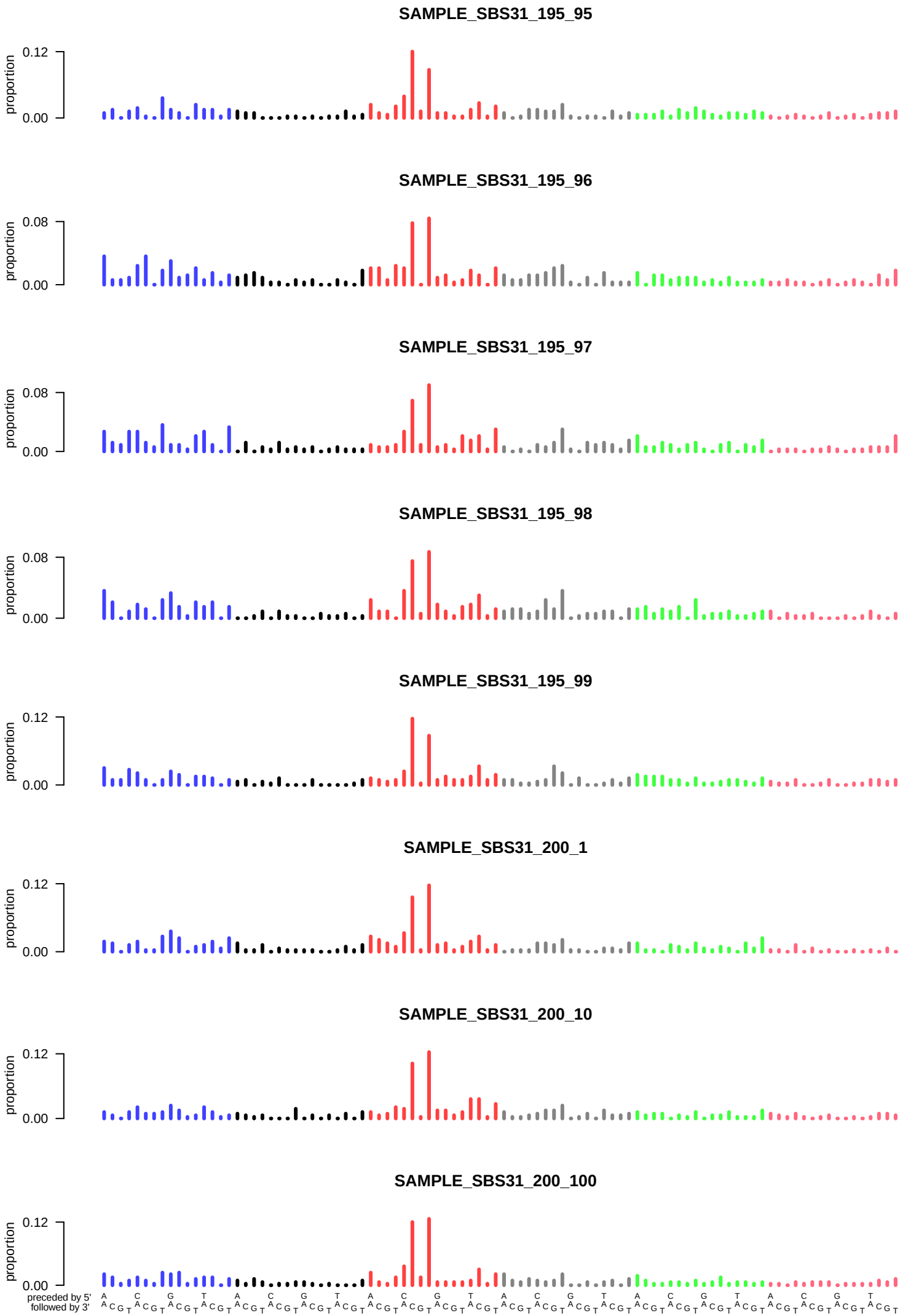
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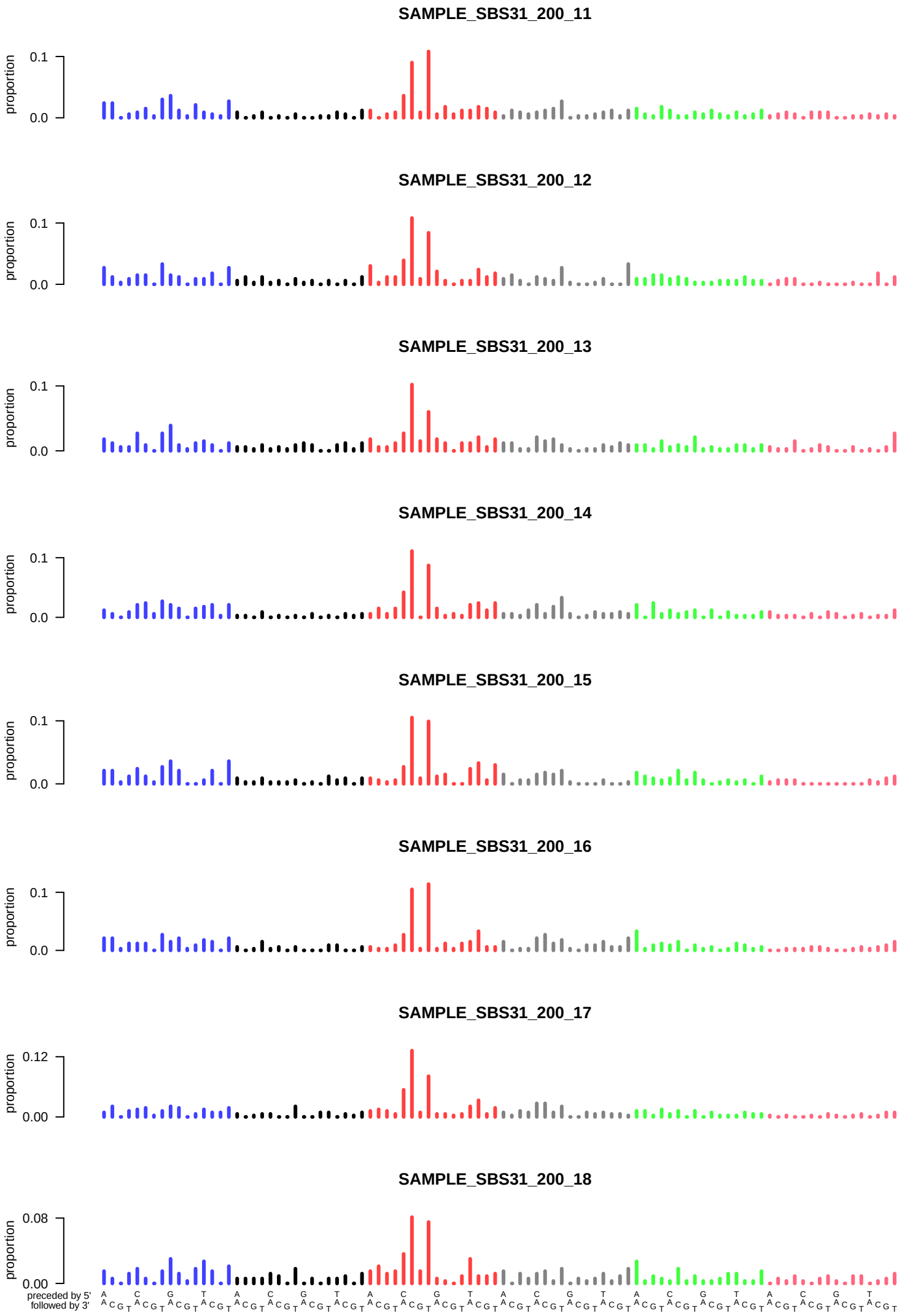
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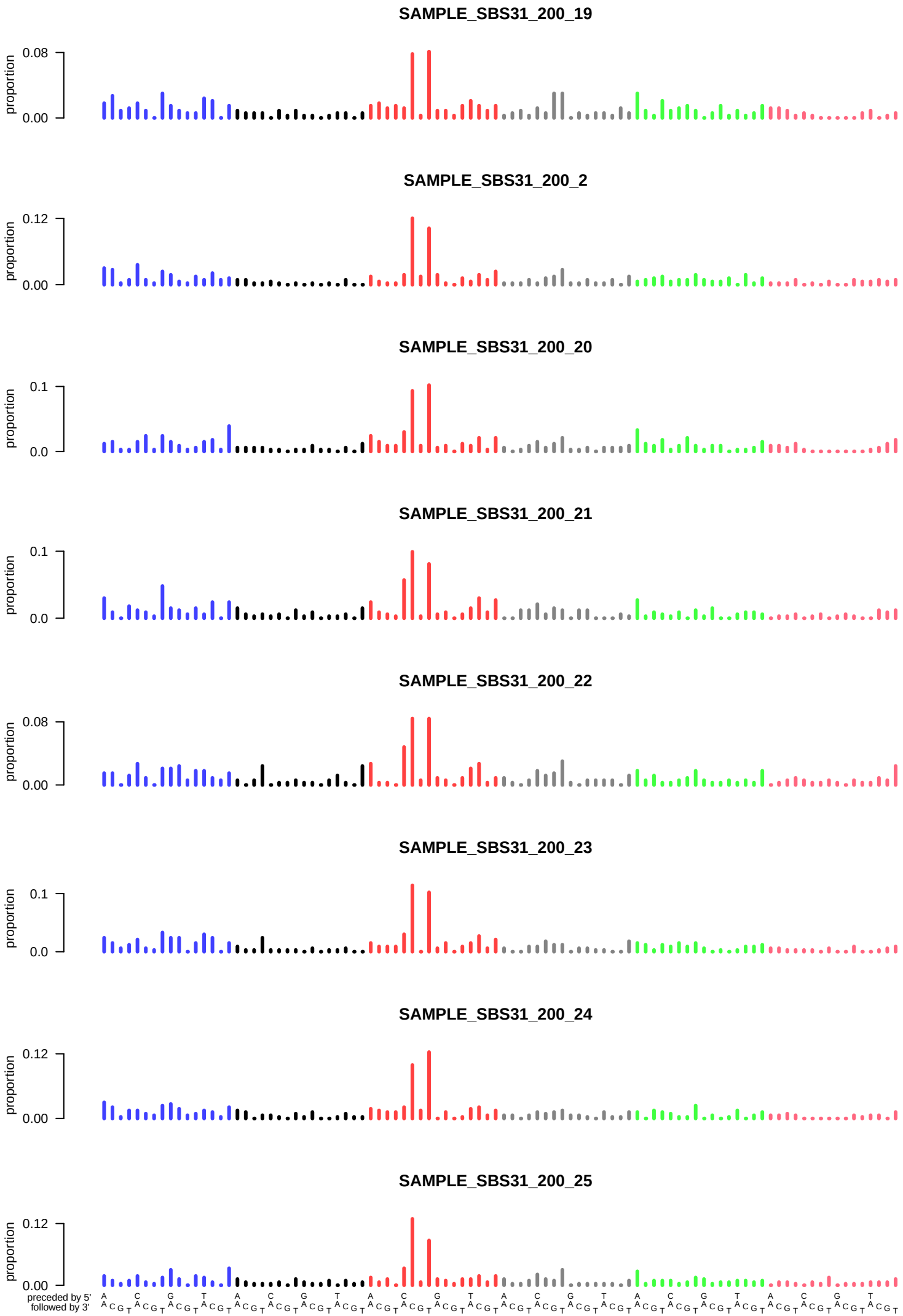
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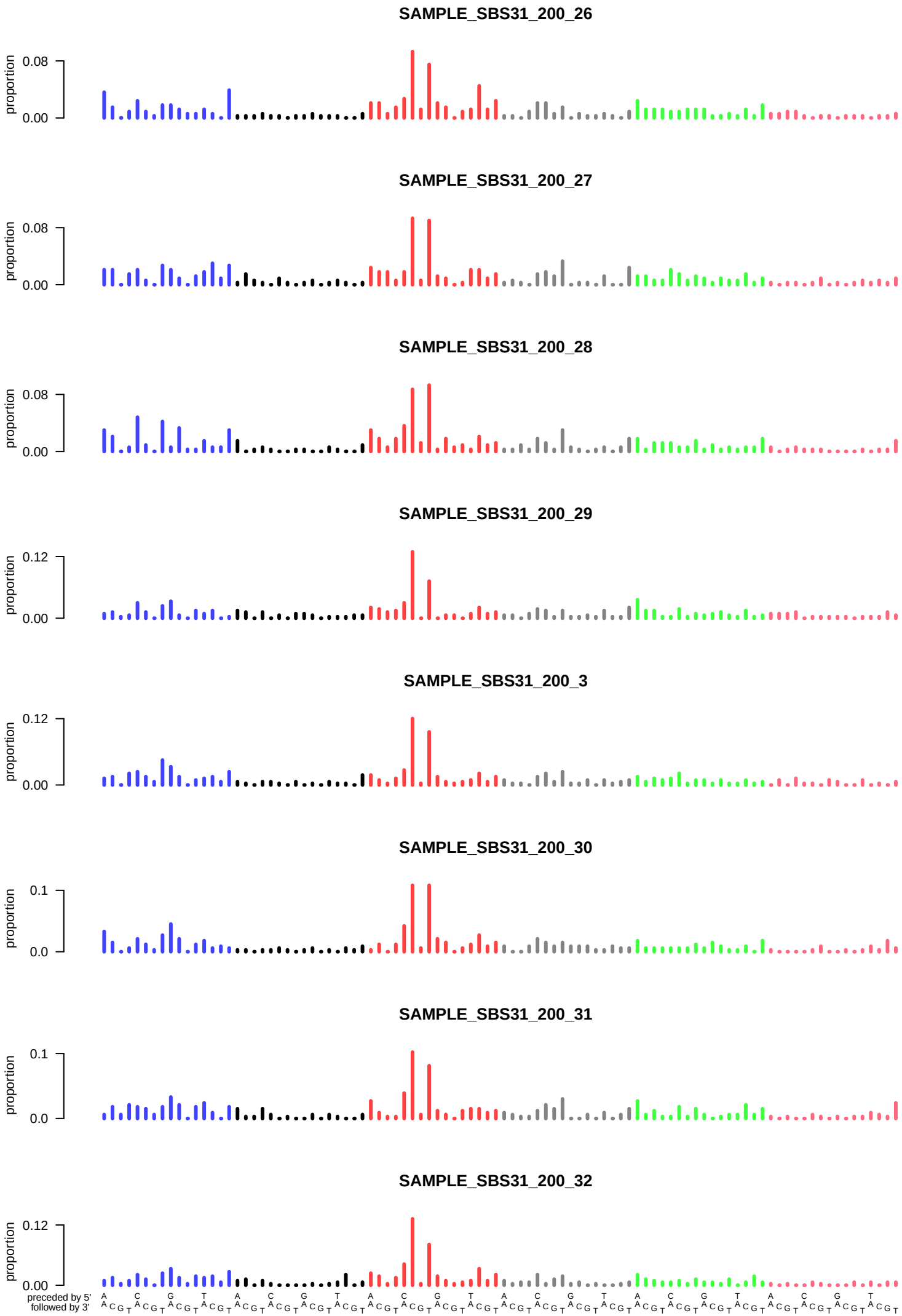
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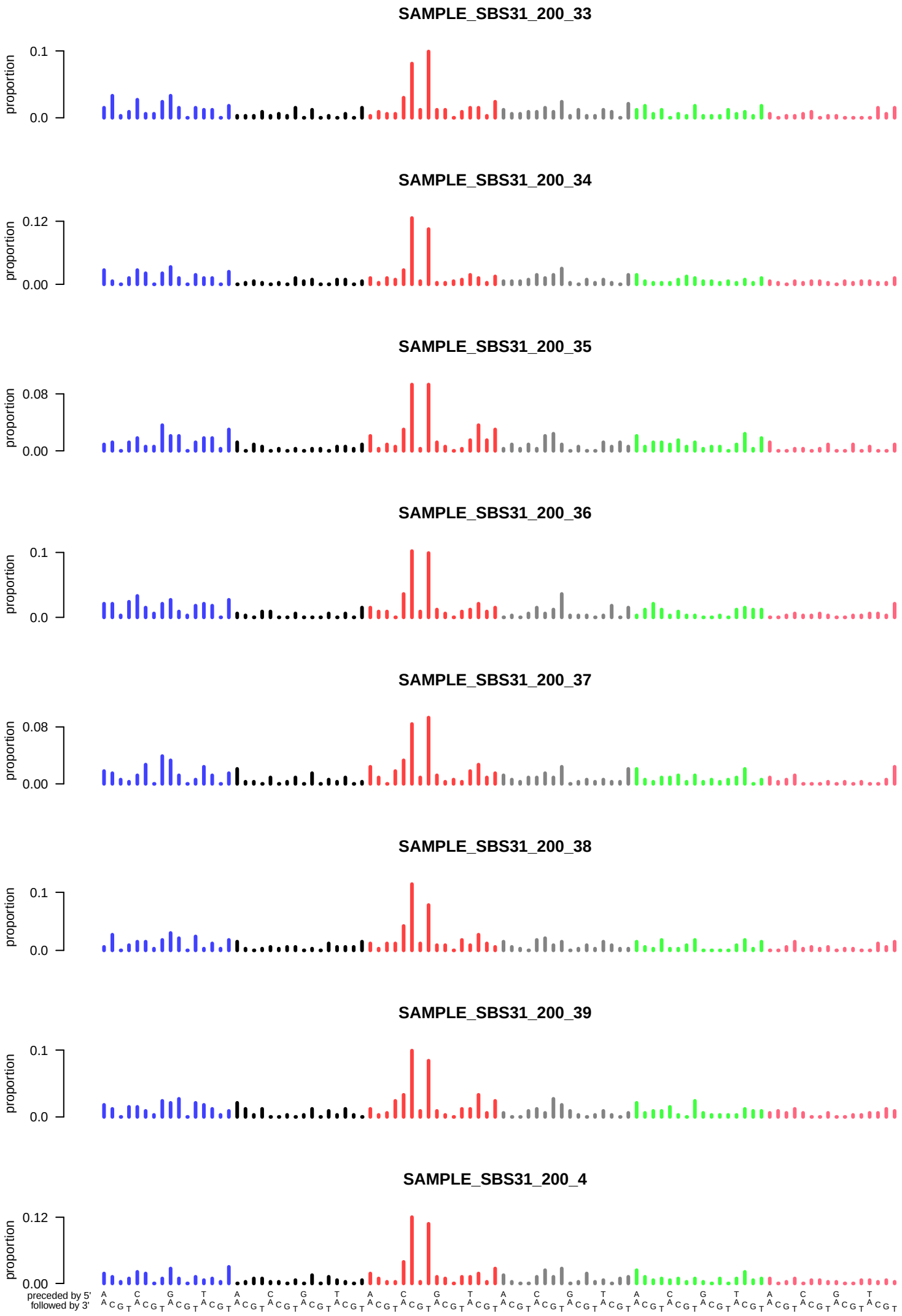
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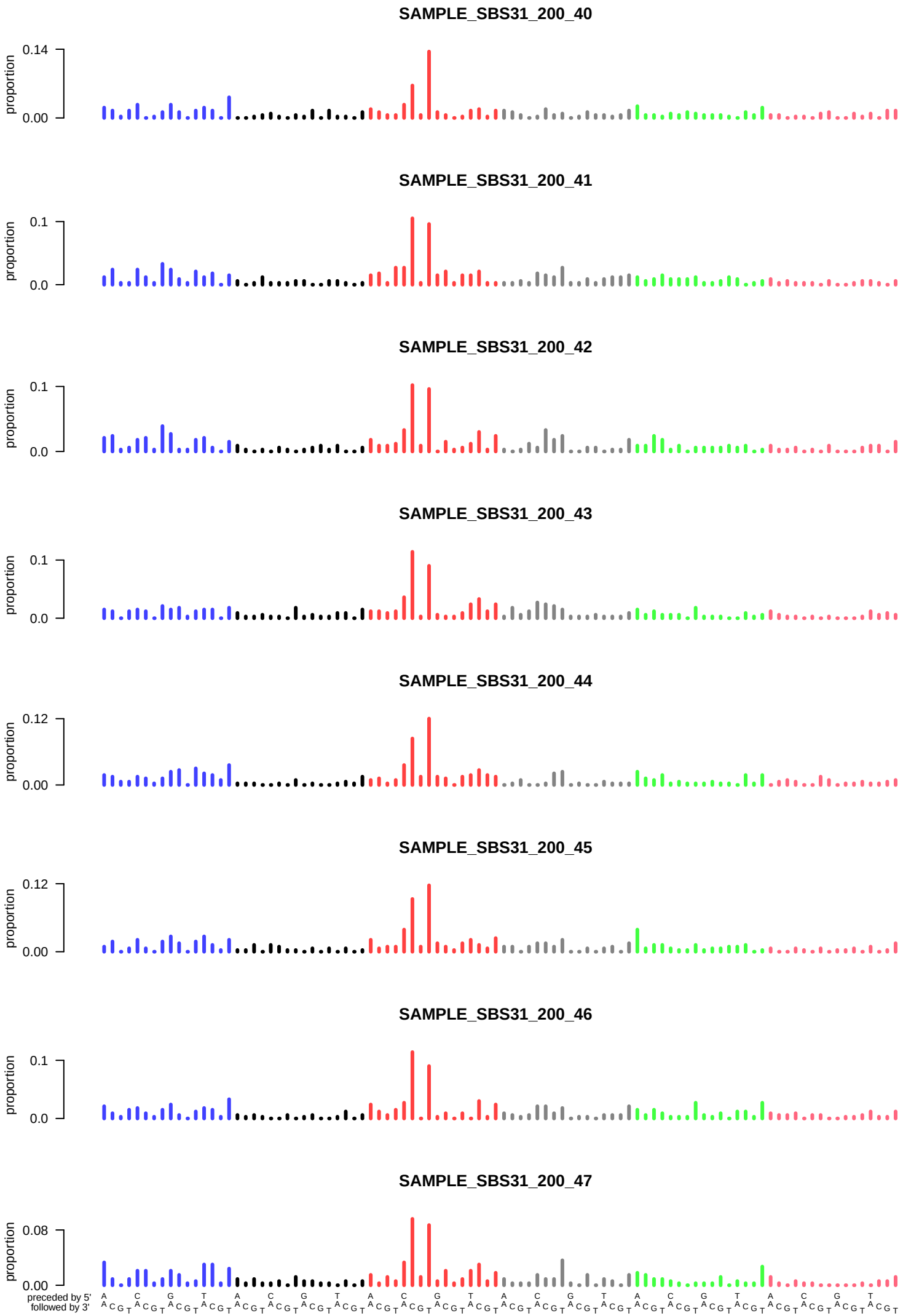
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SAMPLE_SBS31_200_44
proportion
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SAMPLE_SBS31_200_46
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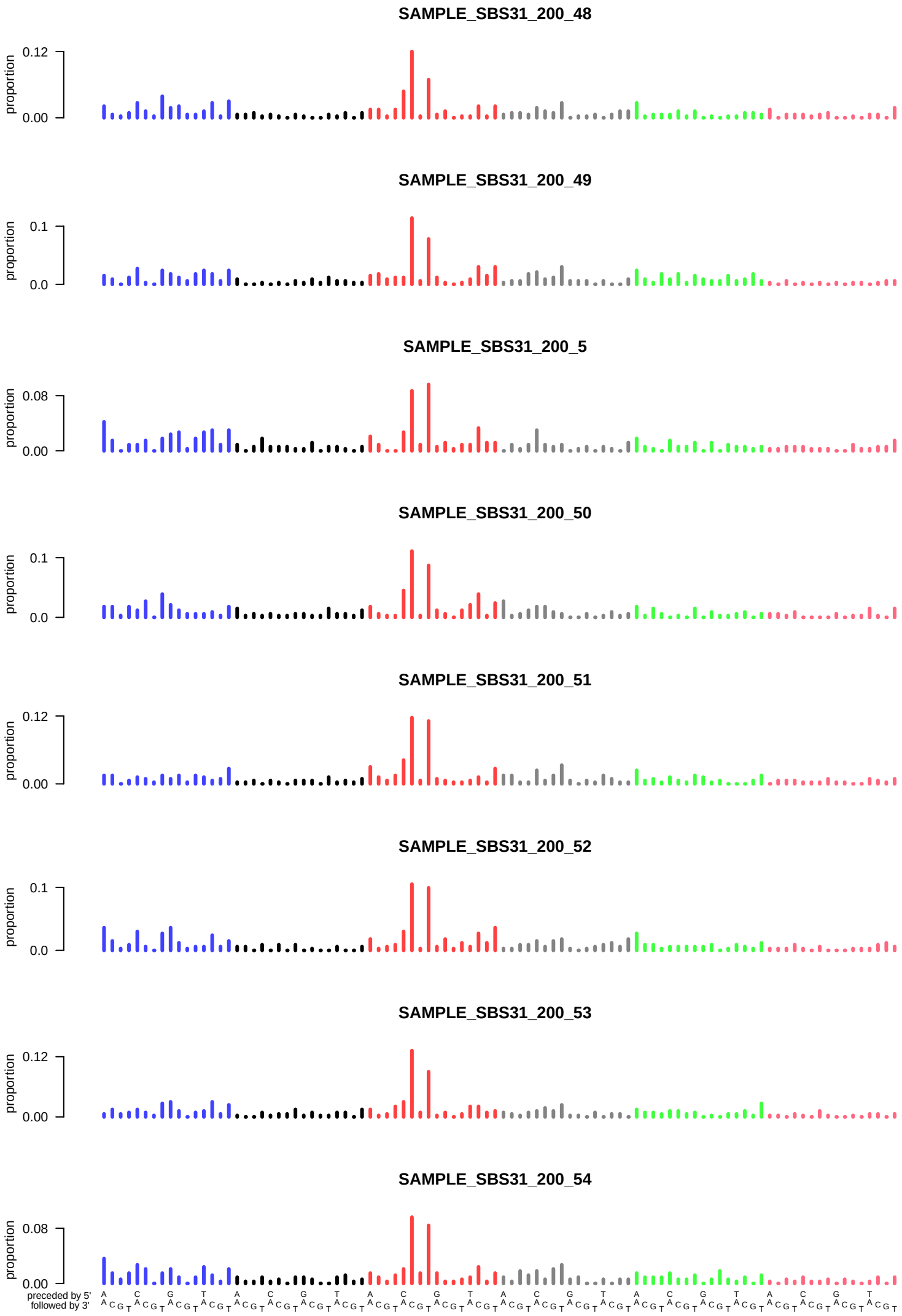
preceded by 5'
followed by 3'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SAMPLE_SBS31_200_50
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SAMPLE_SBS31_200_51
proportion
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SAMPLE_SBS31_200_53
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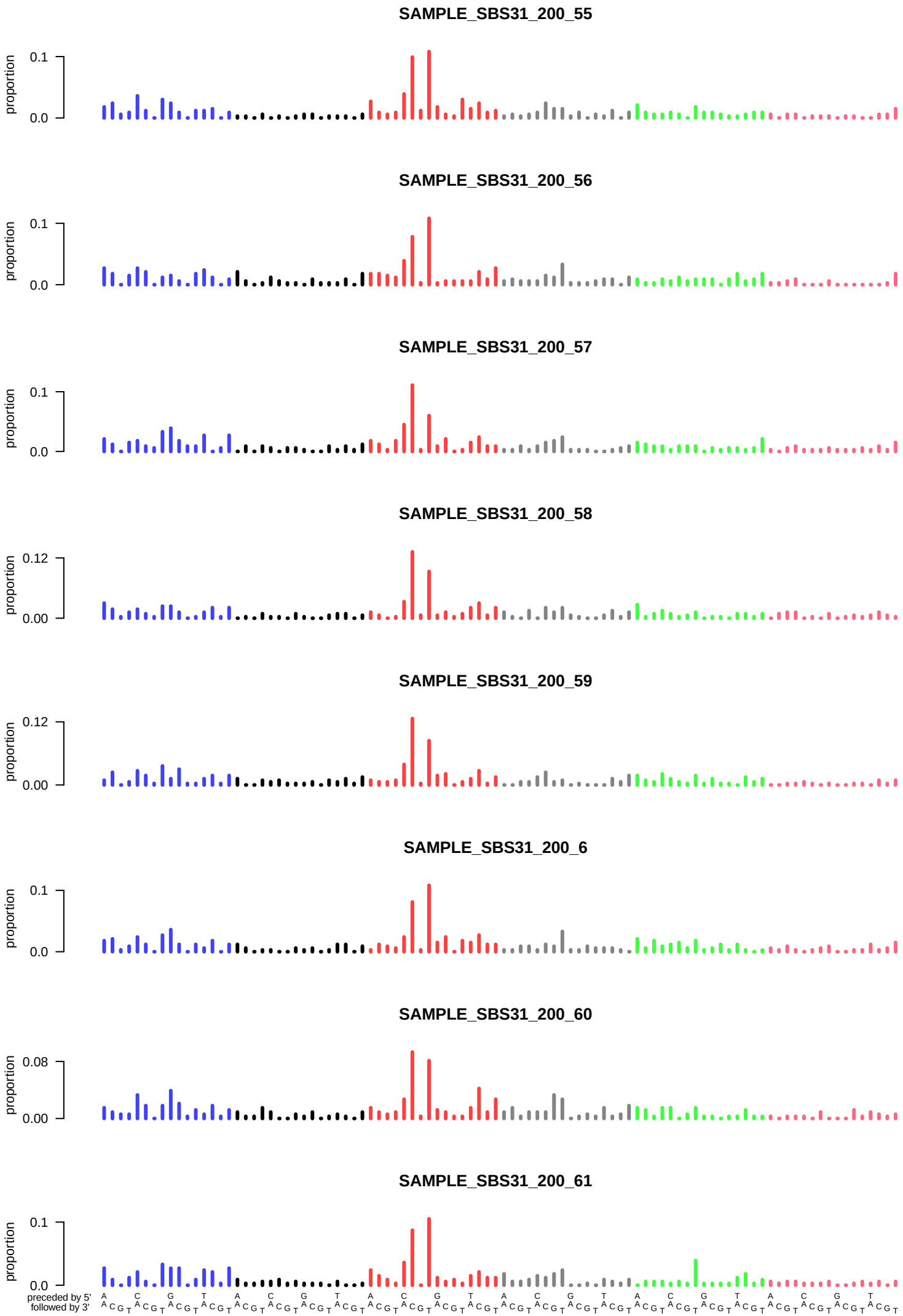
followed by 3'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SAMPLE_SBS31_200_58
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SAMPLE_SBS31_200_59
proportion
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SAMPLE_SBS31_200_6
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SAMPLE_SBS31_200_60
proportion
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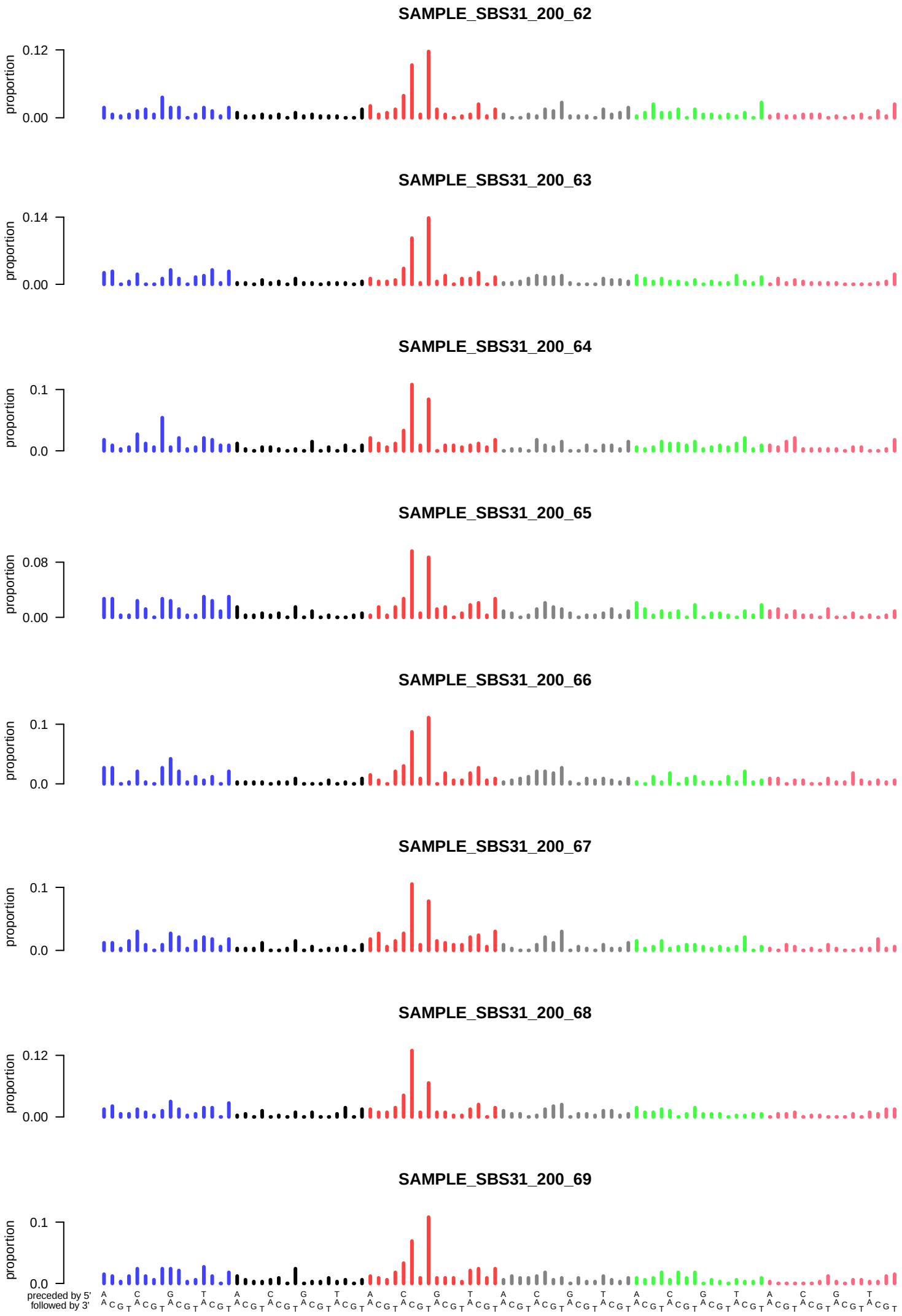
preceded by 5'
followed by 3'
A C G T A C G T A C G T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SAMPLE_SBS31_200_65
proportion
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SAMPLE_SBS31_200_66
proportion
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SAMPLE_SBS31_200_67
proportion
0.1
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SAMPLE_SBS31_200_68
proportion
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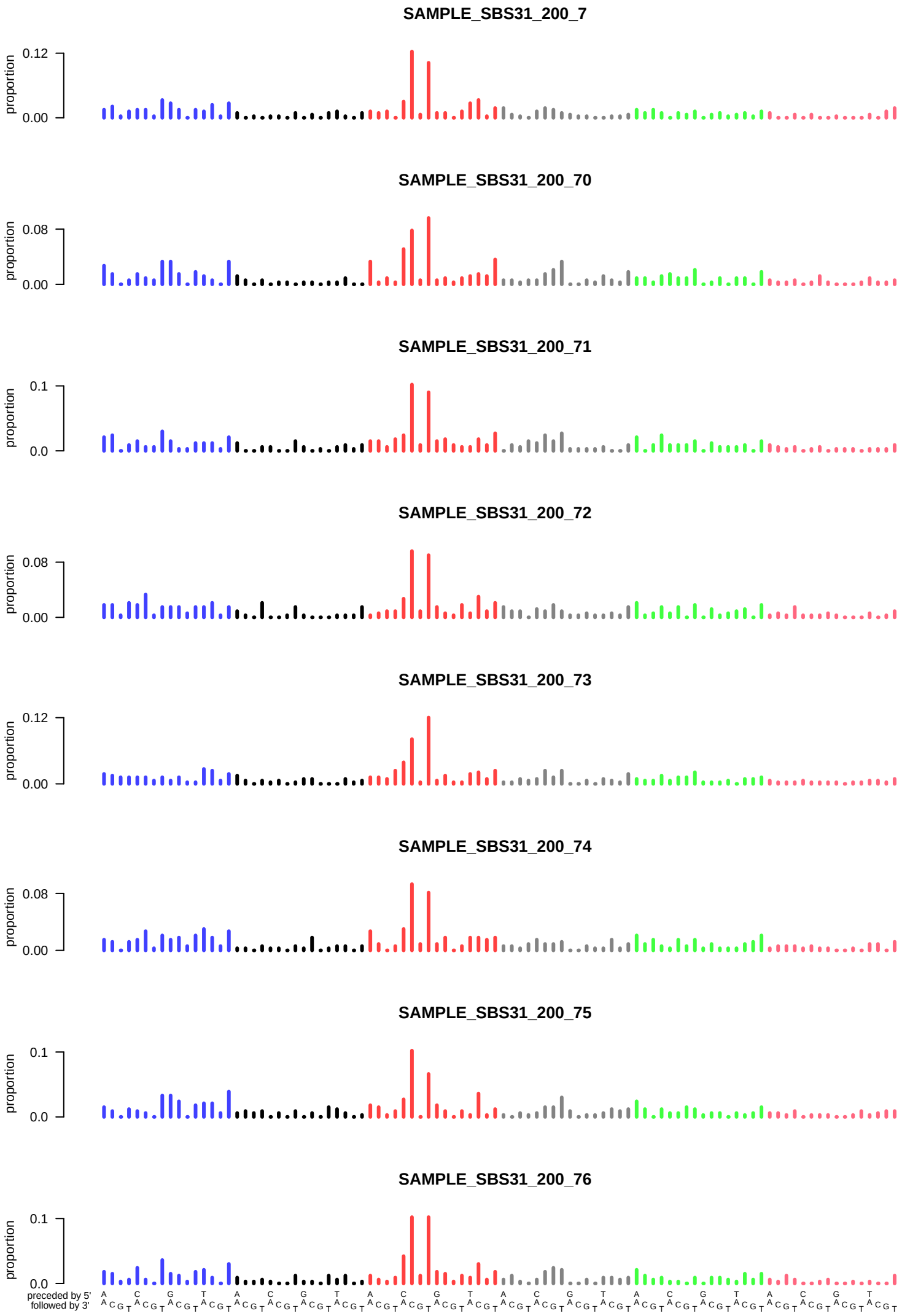
followed by 3'
A C G T A C G T A C G T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SAMPLE_SBS31_200_72
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SAMPLE_SBS31_200_73
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SAMPLE_SBS31_200_74
proportion
0.08
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SAMPLE_SBS31_200_75
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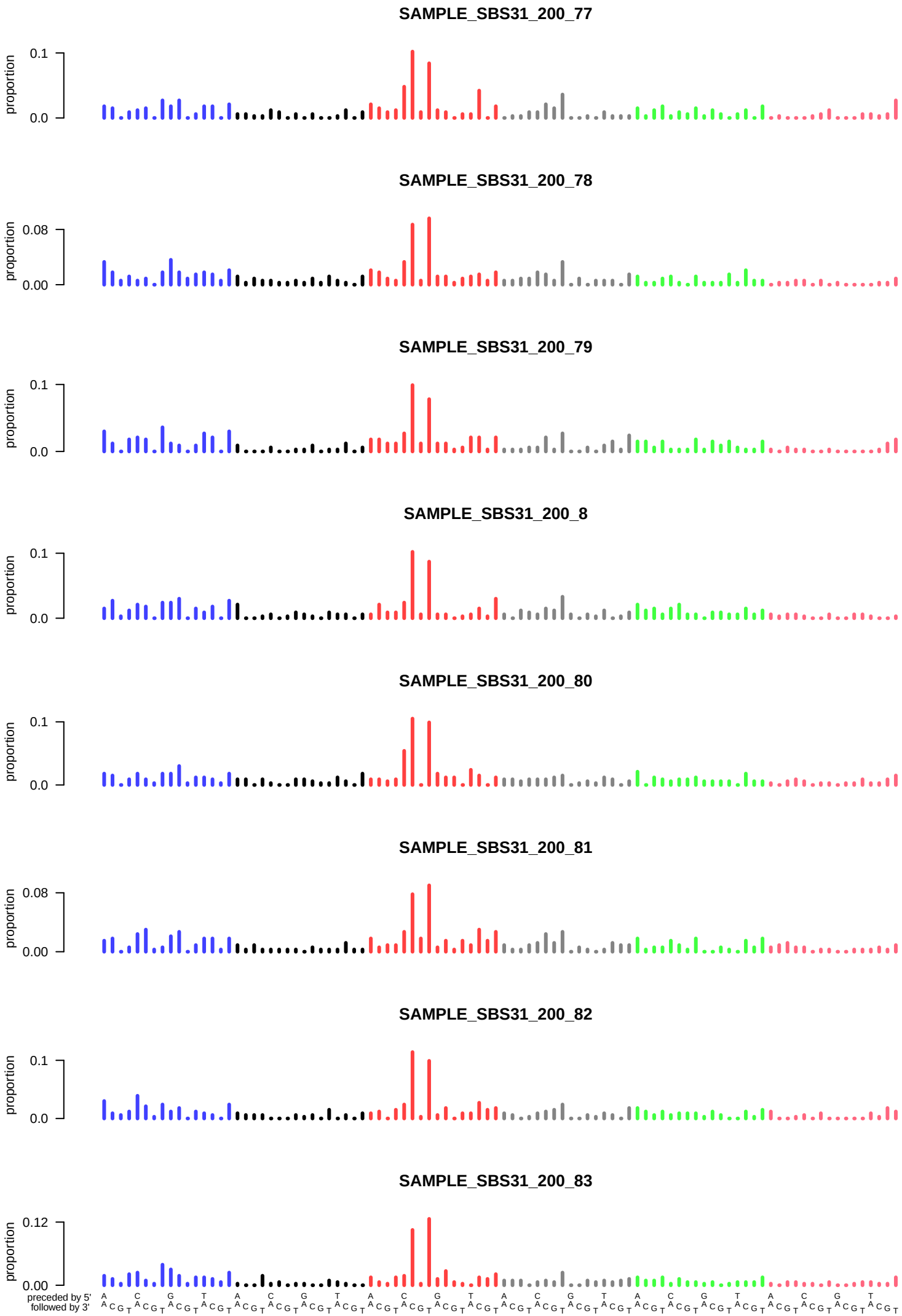
preceded by 5'
followed by 3'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SAMPLE_SBS31_200_8
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SAMPLE_SBS31_200_80
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SAMPLE_SBS31_200_81
proportion
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SAMPLE_SBS31_200_82
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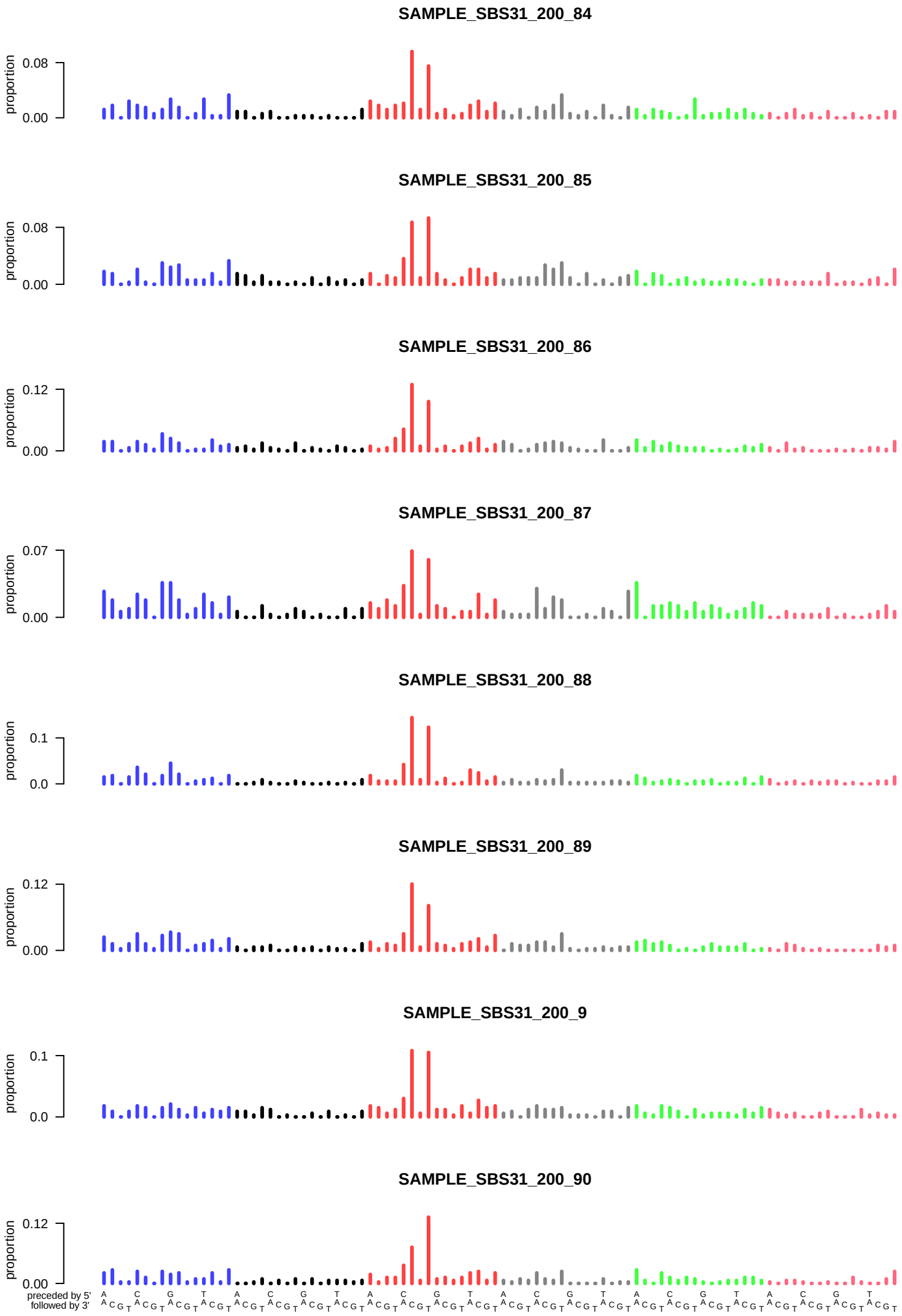
preceded by 5'
followed by 3'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SAMPLE_SBS31_200_87
proportion
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SAMPLE_SBS31_200_88
proportion
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SAMPLE_SBS31_200_89
proportion
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0.00
SAMPLE_SBS31_200_9
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SAMPLE_SBS31_200_90
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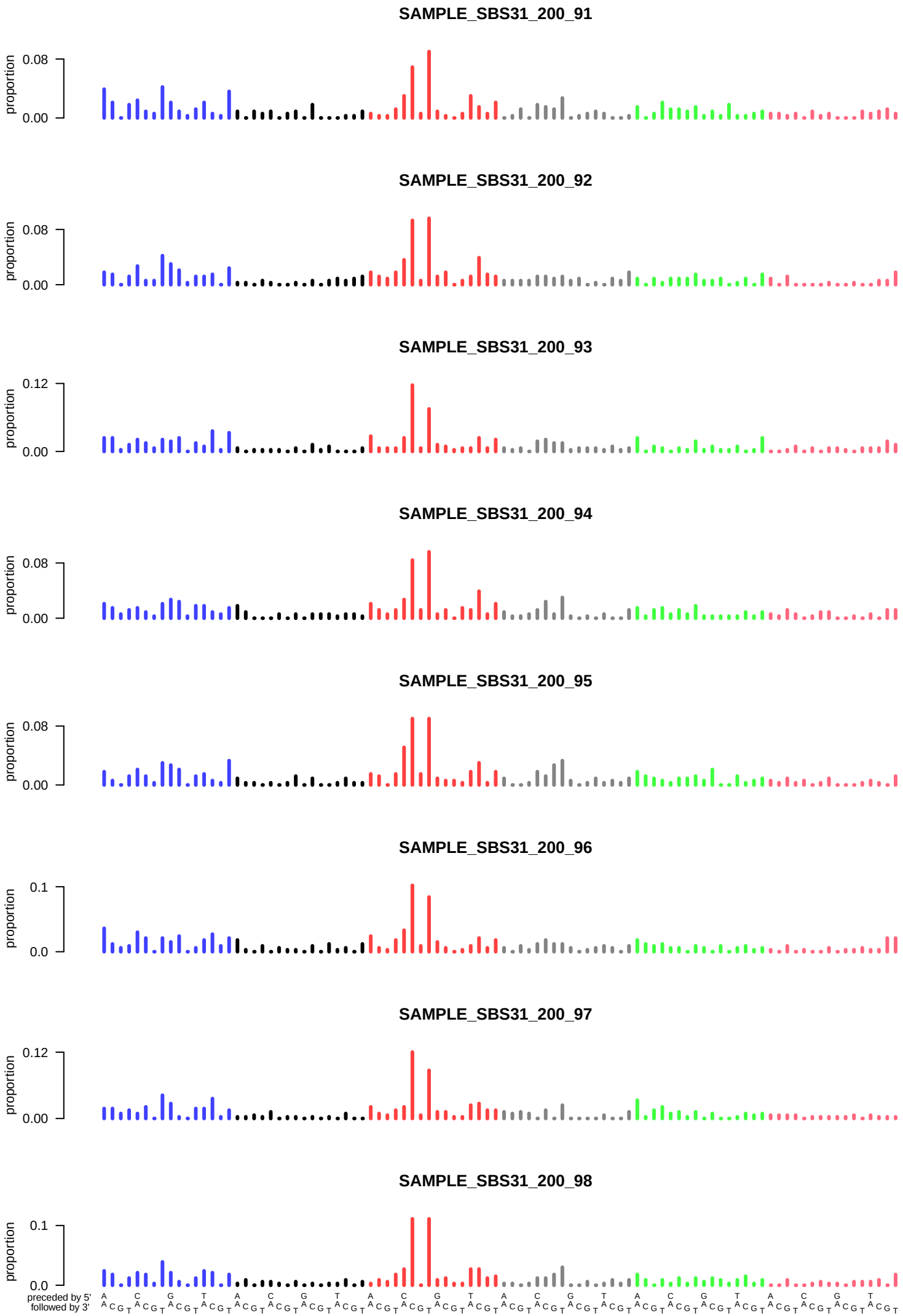
preceded by 5'
followed by 3'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proportion
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SAMPLE_SBS31_200_94
proportion
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SAMPLE_SBS31_200_95
proportion
0.08
0.00
SAMPLE_SBS31_200_96
proportion
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0.0
SAMPLE_SBS31_200_97
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SAMPLE_SBS31_200_98
proportion
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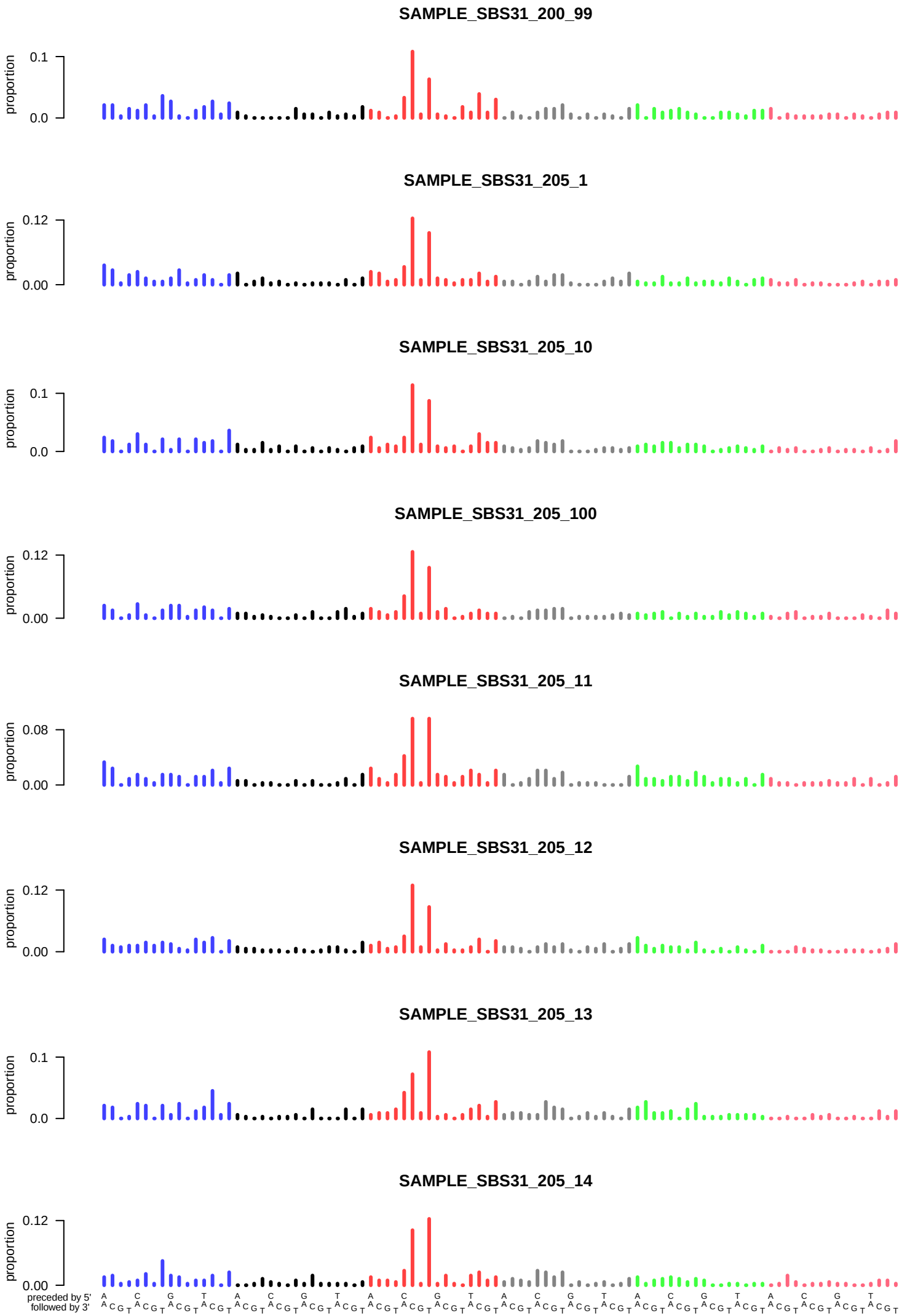
0.0
preceded by 5'
followed by 3'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SAMPLE_SBS31_205_10
proportion
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SAMPLE_SBS31_205_100
proportion
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SAMPLE_SBS31_205_11
proportion
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SAMPLE_SBS31_205_12
proportion
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SAMPLE_SBS31_205_13
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SAMPLE_SBS31_205_14
proportion
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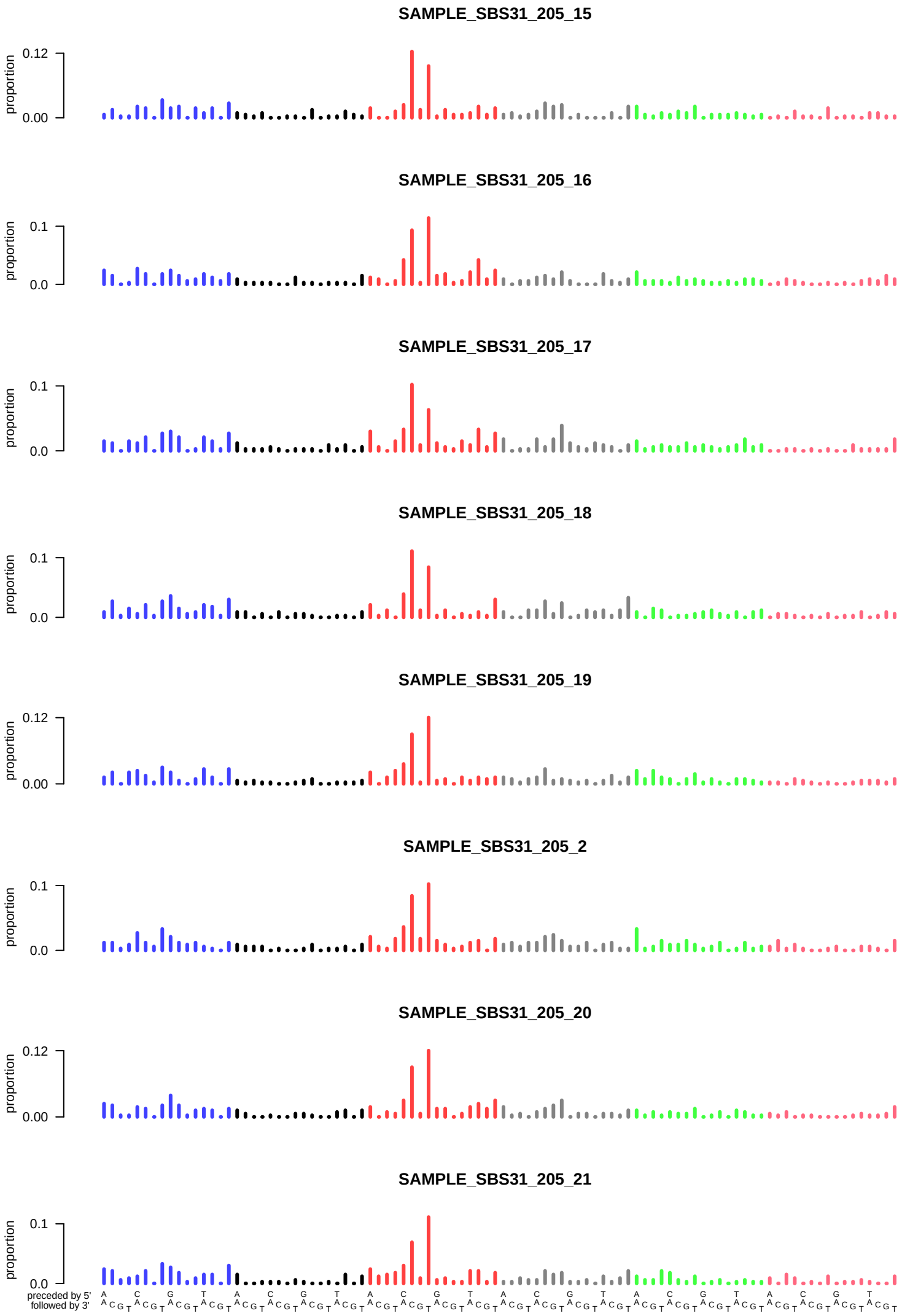
0.00
preceded by 5'
followed by 3'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proportion
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SAMPLE_SBS31_205_18
proportion
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SAMPLE_SBS31_205_19
proportion
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SAMPLE_SBS31_205_2
proportion
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SAMPLE_SBS31_205_20
proportion
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proportion
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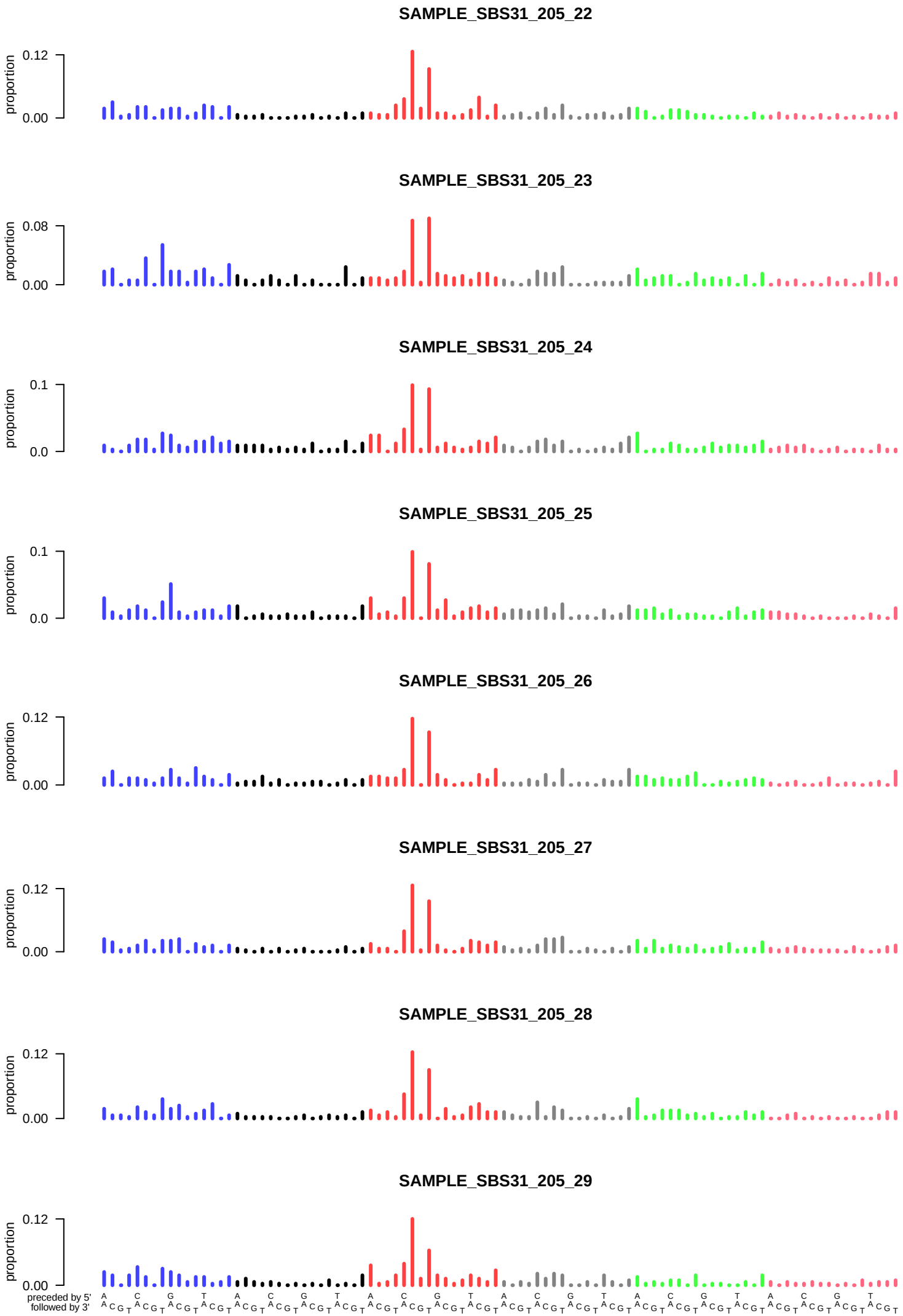
preceded by 5'
followed by 3'
A C G T A C G T A C G T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SAMPLE_SBS31_205_25
proportion
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SAMPLE_SBS31_205_26
proportion
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SAMPLE_SBS31_205_27
proportion
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SAMPLE_SBS31_205_28
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SAMPLE_SBS31_205_29
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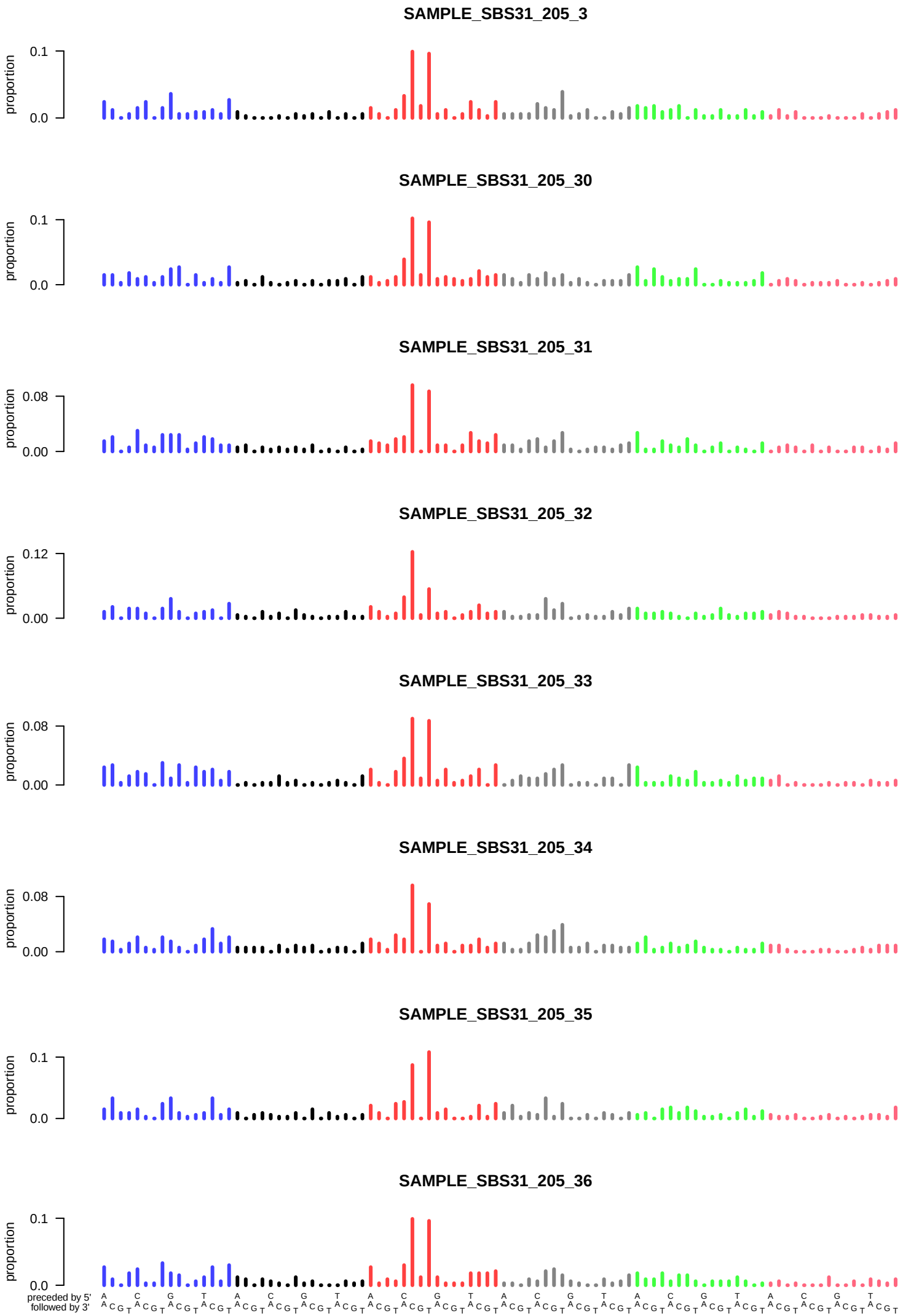
0.00
preceded by 5'
followed by 3'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SAMPLE_SBS31_205_31
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SAMPLE_SBS31_205_32
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SAMPLE_SBS31_205_33
proportion
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SAMPLE_SBS31_205_34
proportion
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SAMPLE_SBS31_205_35
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SAMPLE_SBS31_205_36
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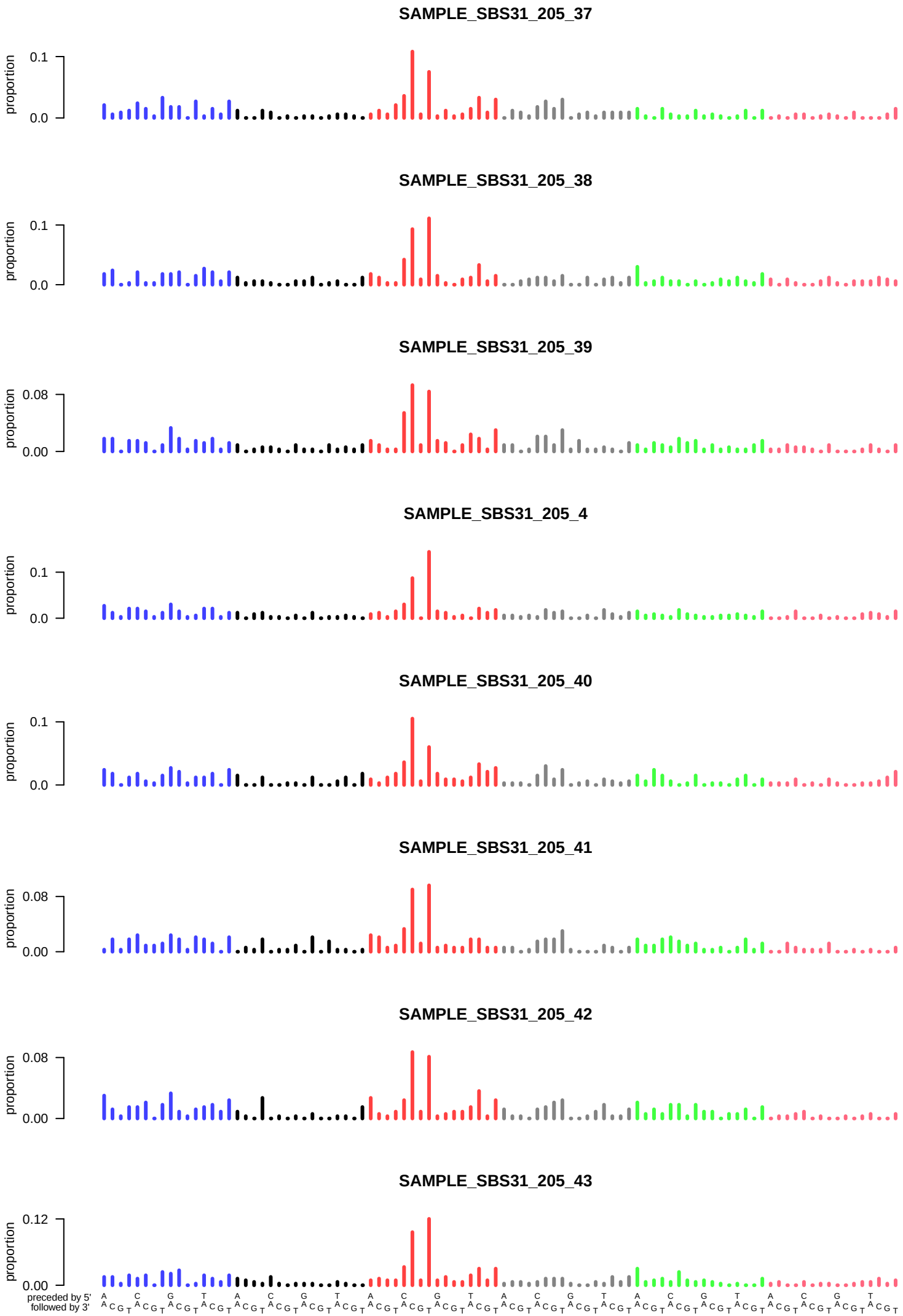
preceded by 5'
followed by 3'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SAMPLE_SBS31_205_4
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SAMPLE_SBS31_205_40
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SAMPLE_SBS31_205_41
proportion
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SAMPLE_SBS31_205_42
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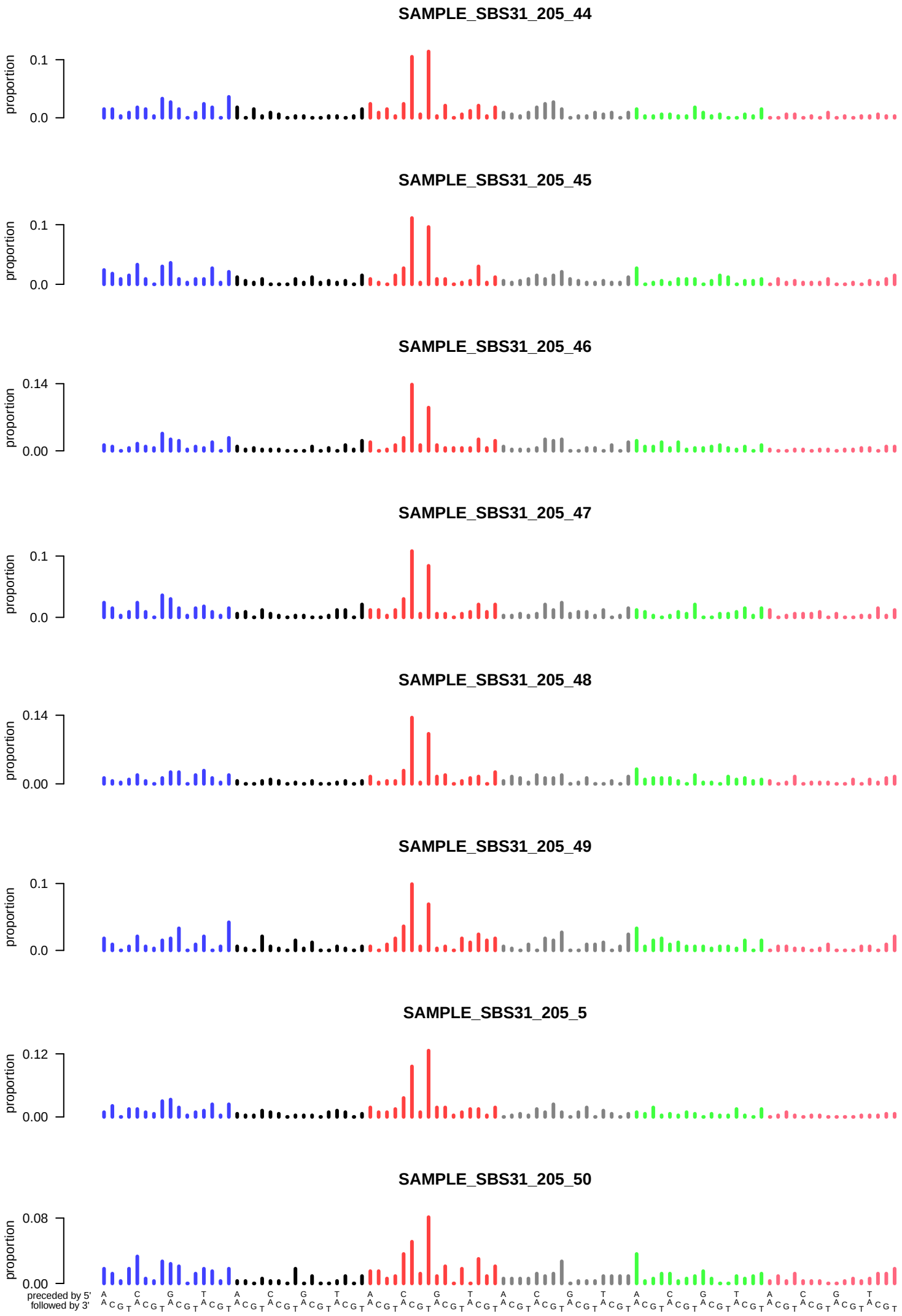
preceded by 5'
followed by 3'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SAMPLE_SBS31_205_47
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SAMPLE_SBS31_205_48
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SAMPLE_SBS31_205_49
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SAMPLE_SBS31_205_5
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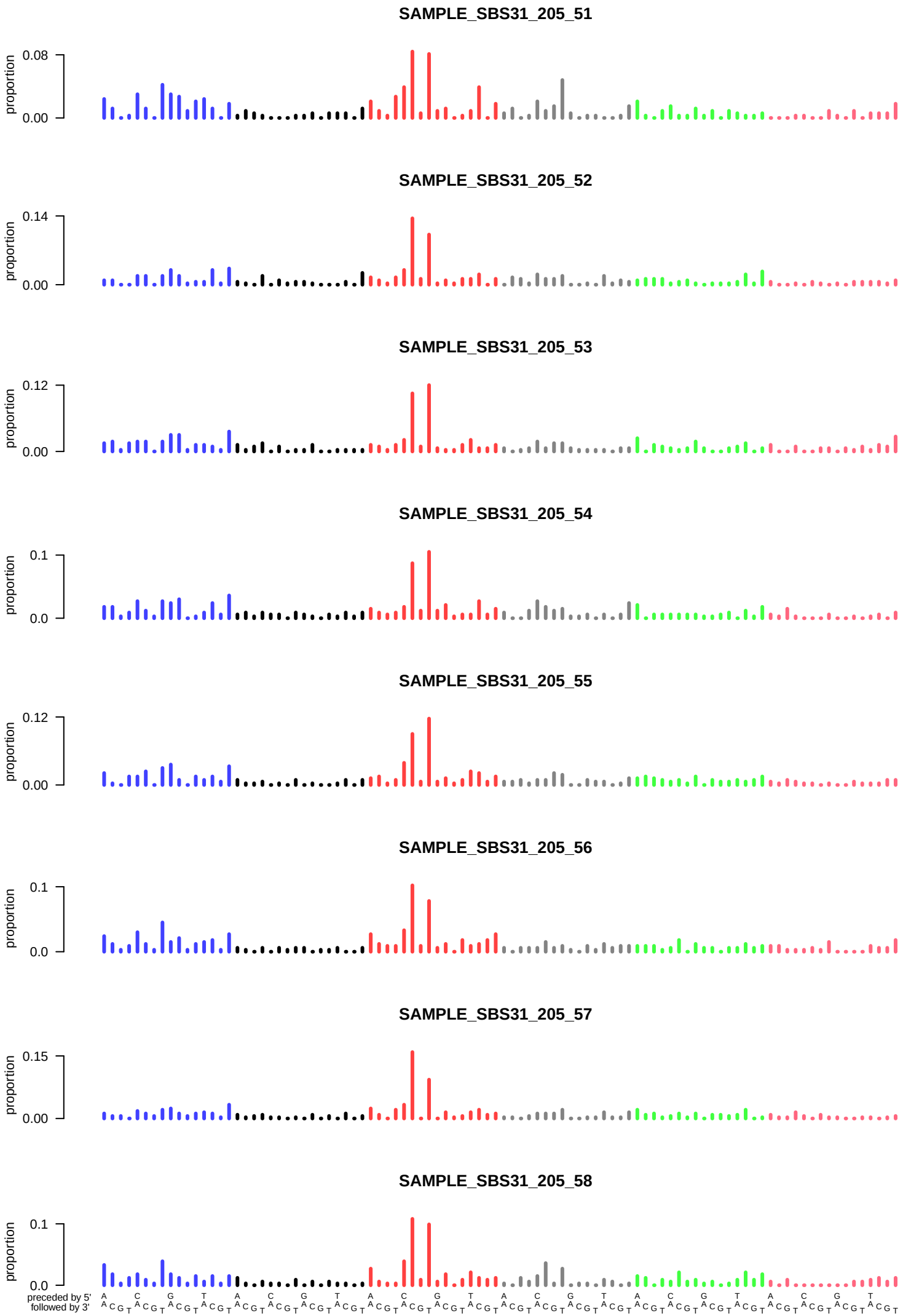
preceded by 5'
followed by 3'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SAMPLE_SBS31_205_56
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SAMPLE_SBS31_205_57
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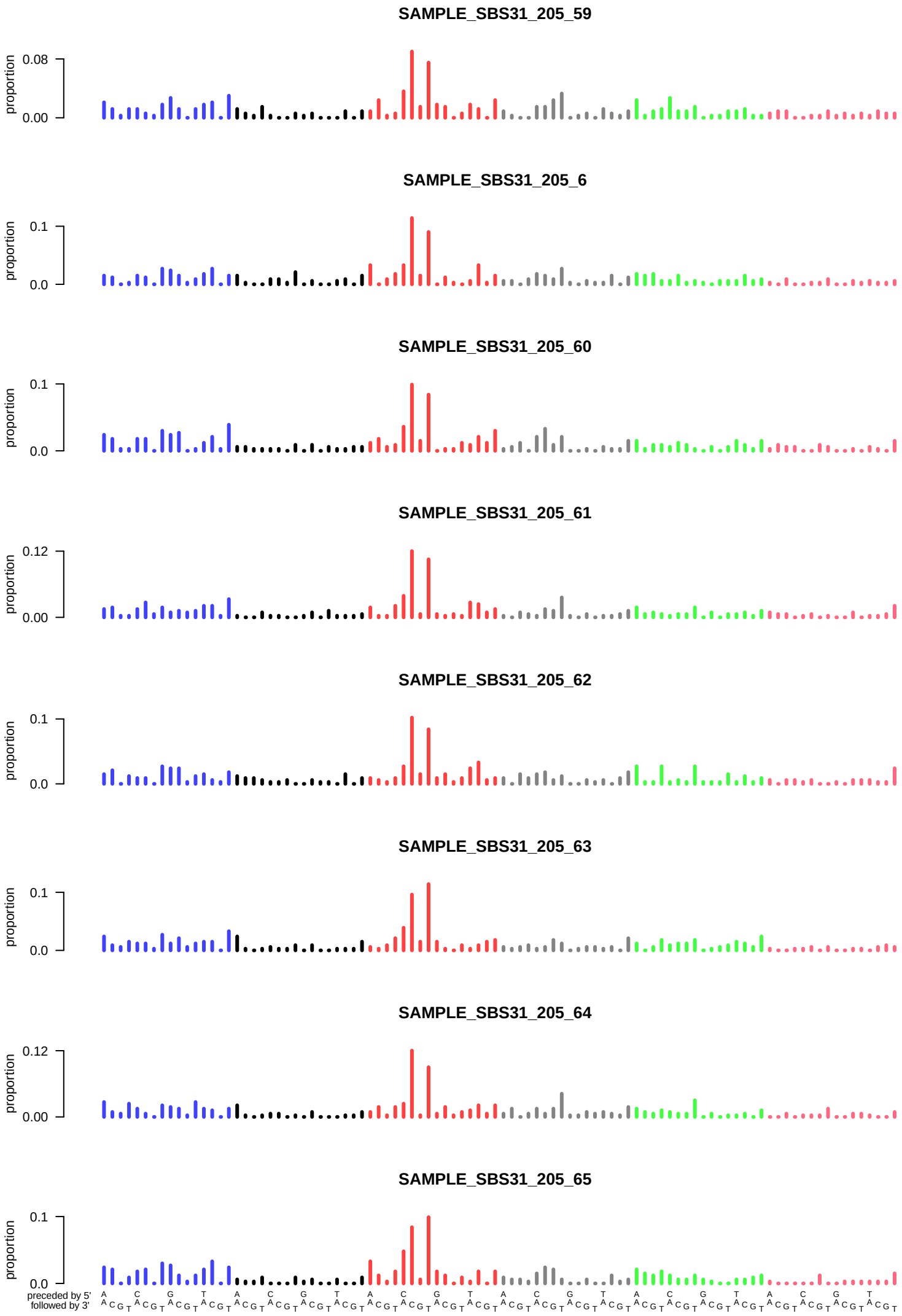
preceded by 5'
followed by 3'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SAMPLE_SBS31_205_63
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SAMPLE_SBS31_205_64
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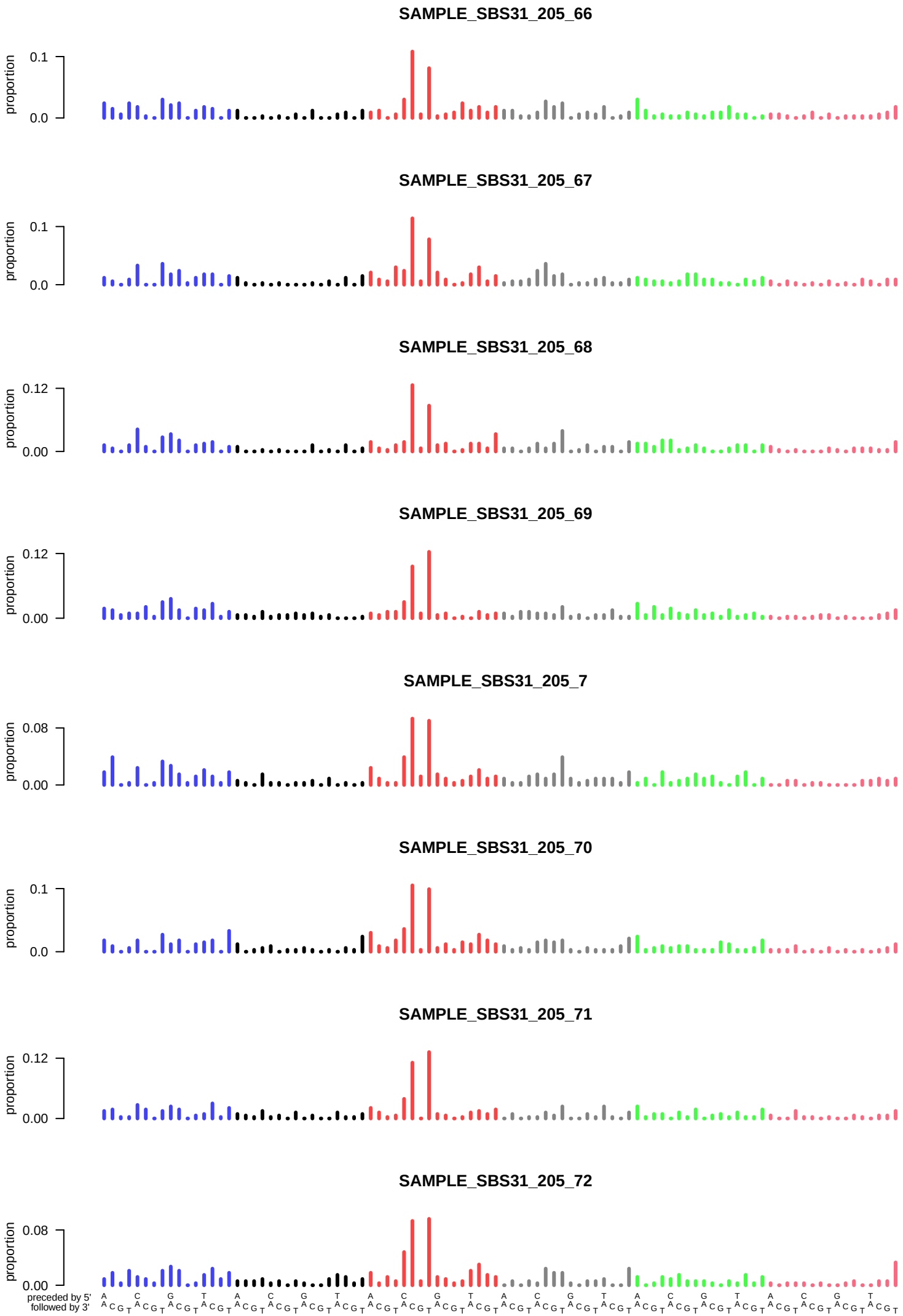
followed by 3'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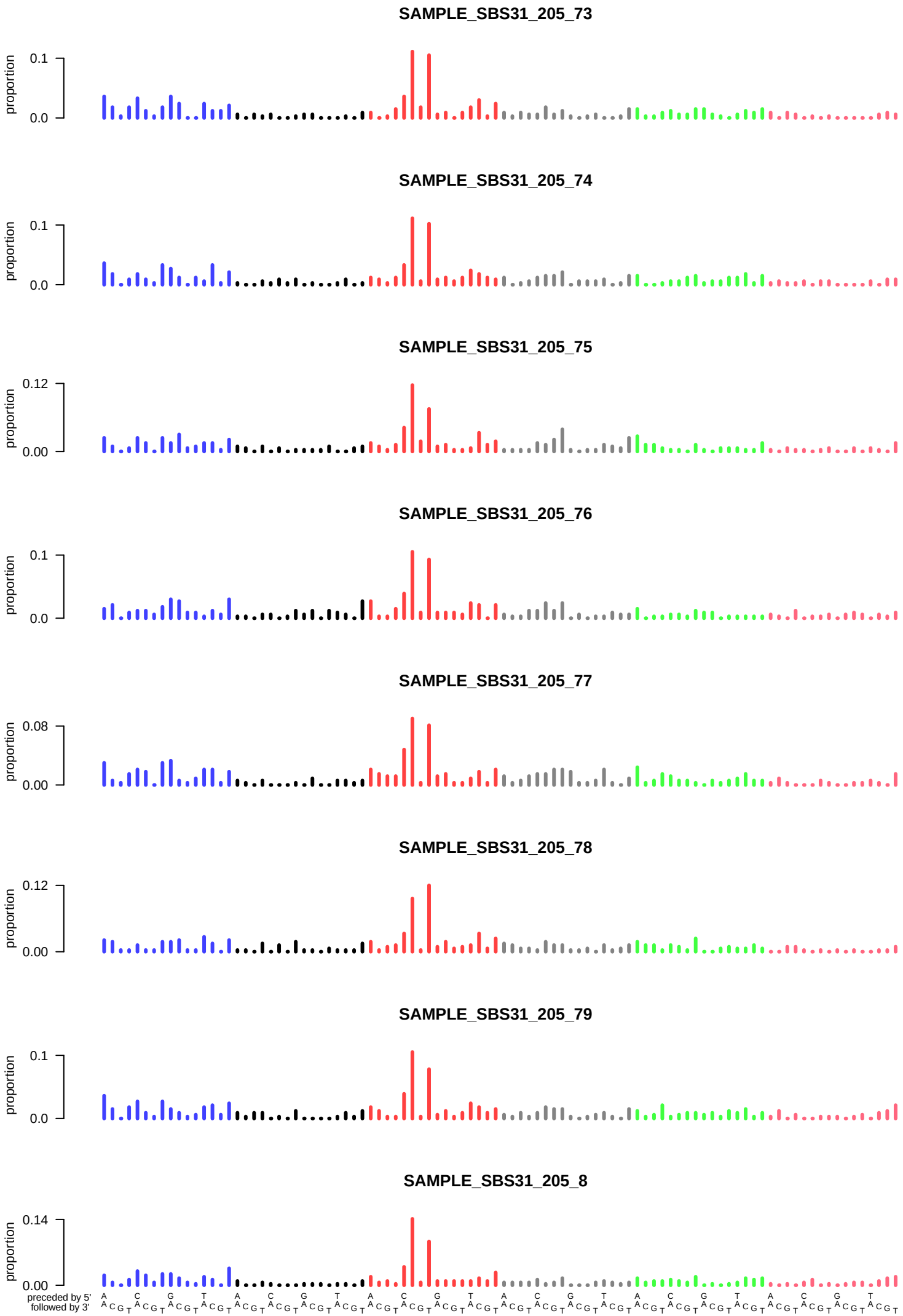
followed by 3'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SAMPLE_SBS31_205_79
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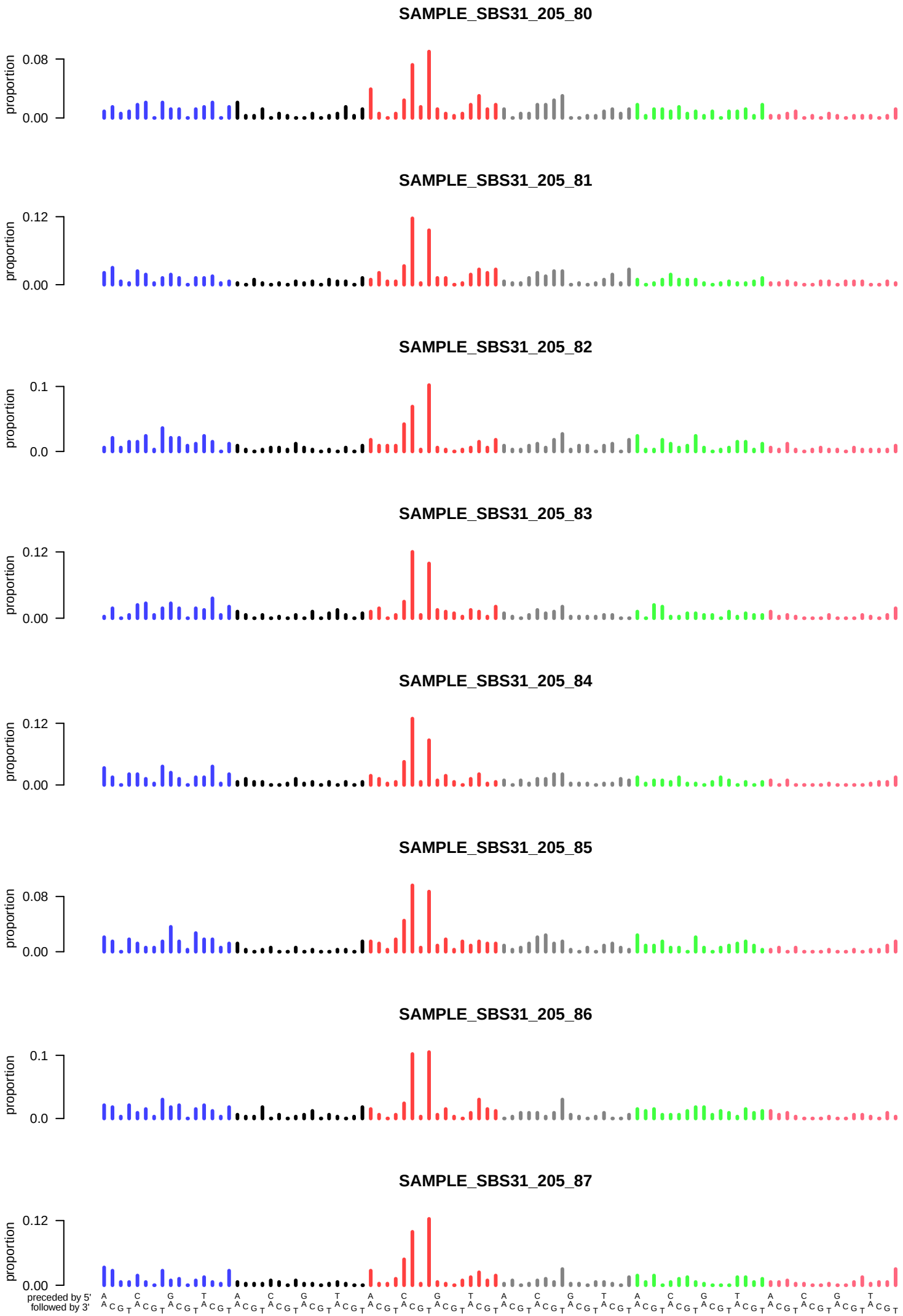
followed by 3'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proportion
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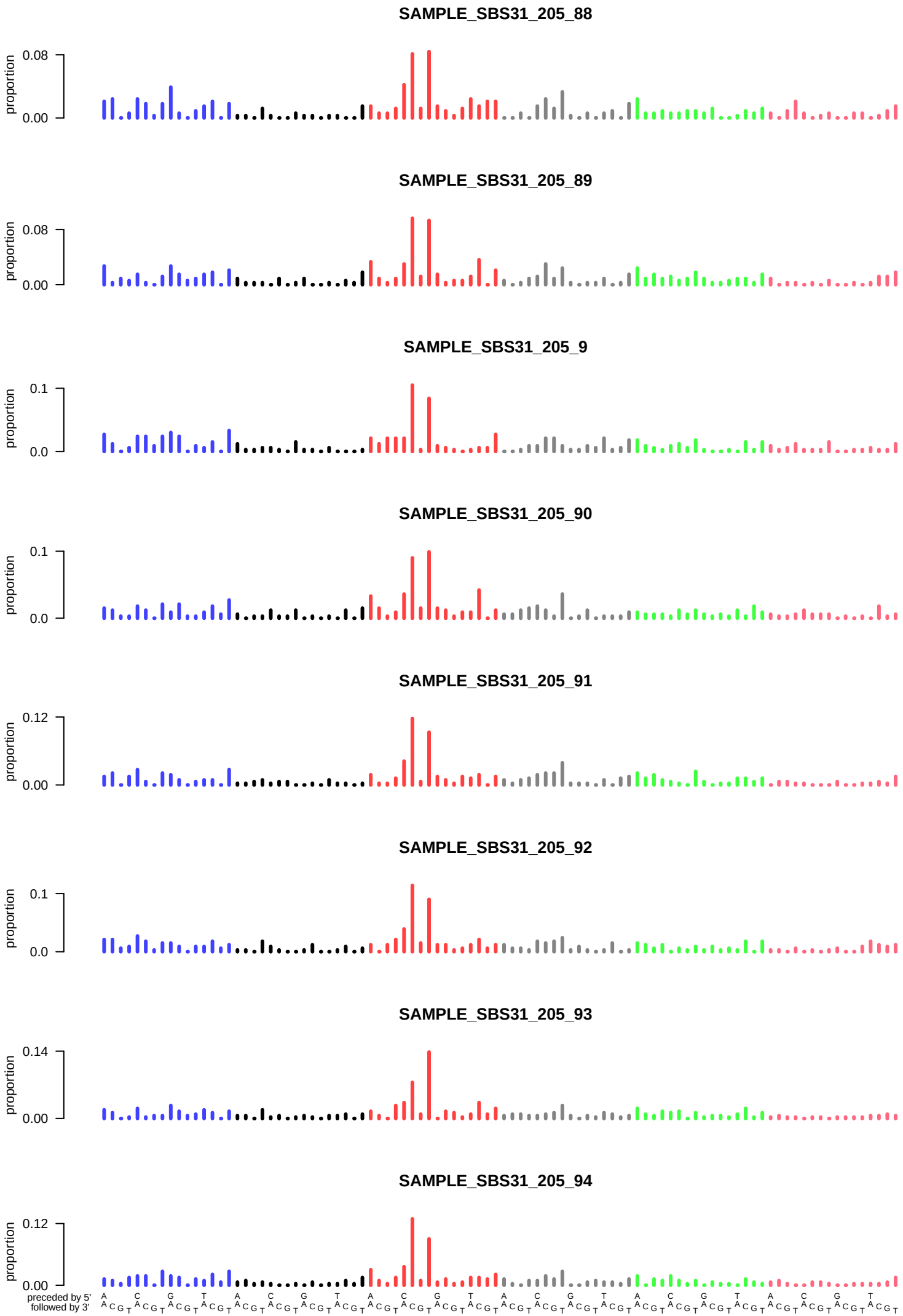
followed by 3'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SAMPLE_SBS31_205_92
proportion
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SAMPLE_SBS31_205_93
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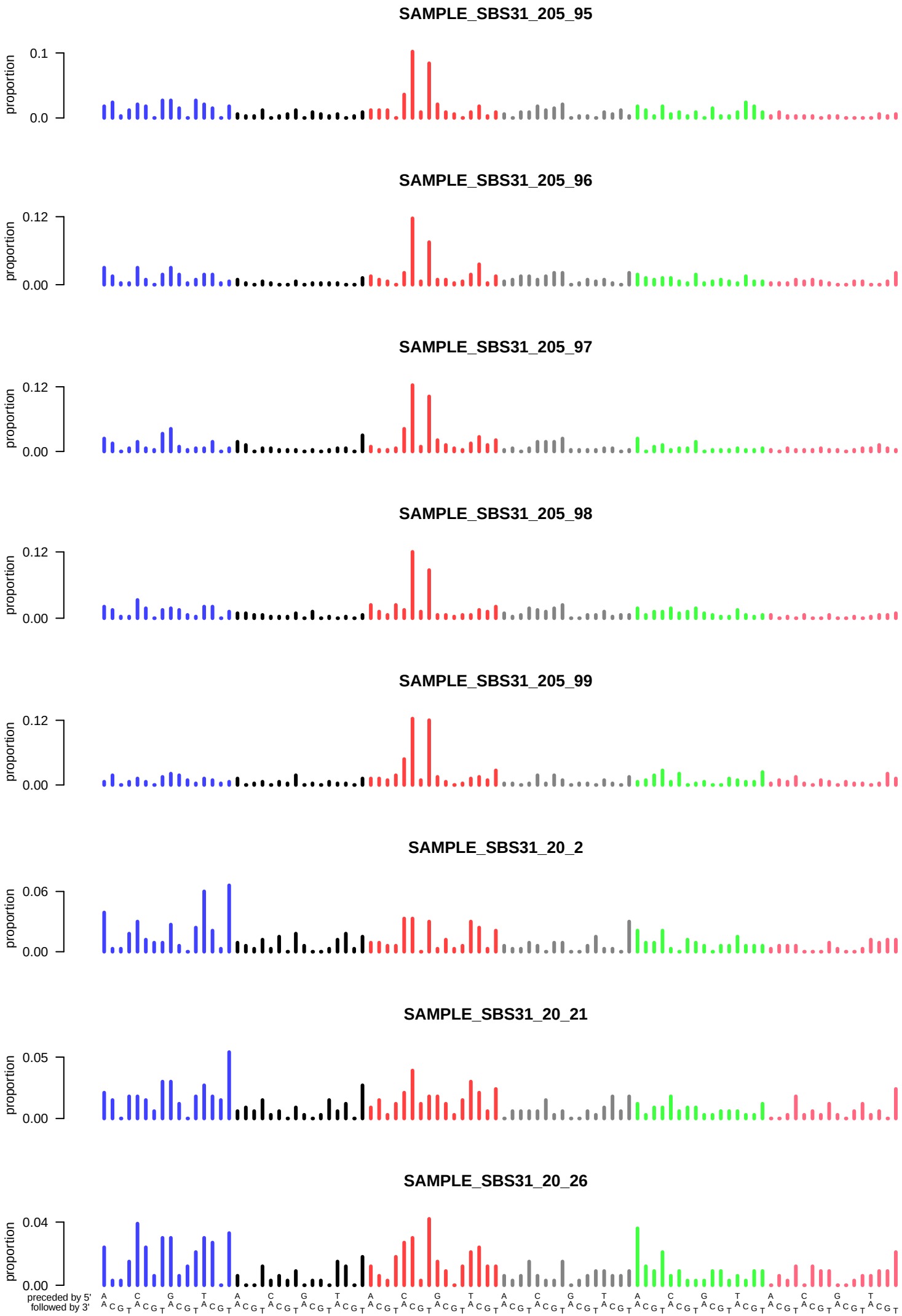
followed by 3'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SAMPLE_SBS31_20_2
proportion
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SAMPLE_SBS31_20_21
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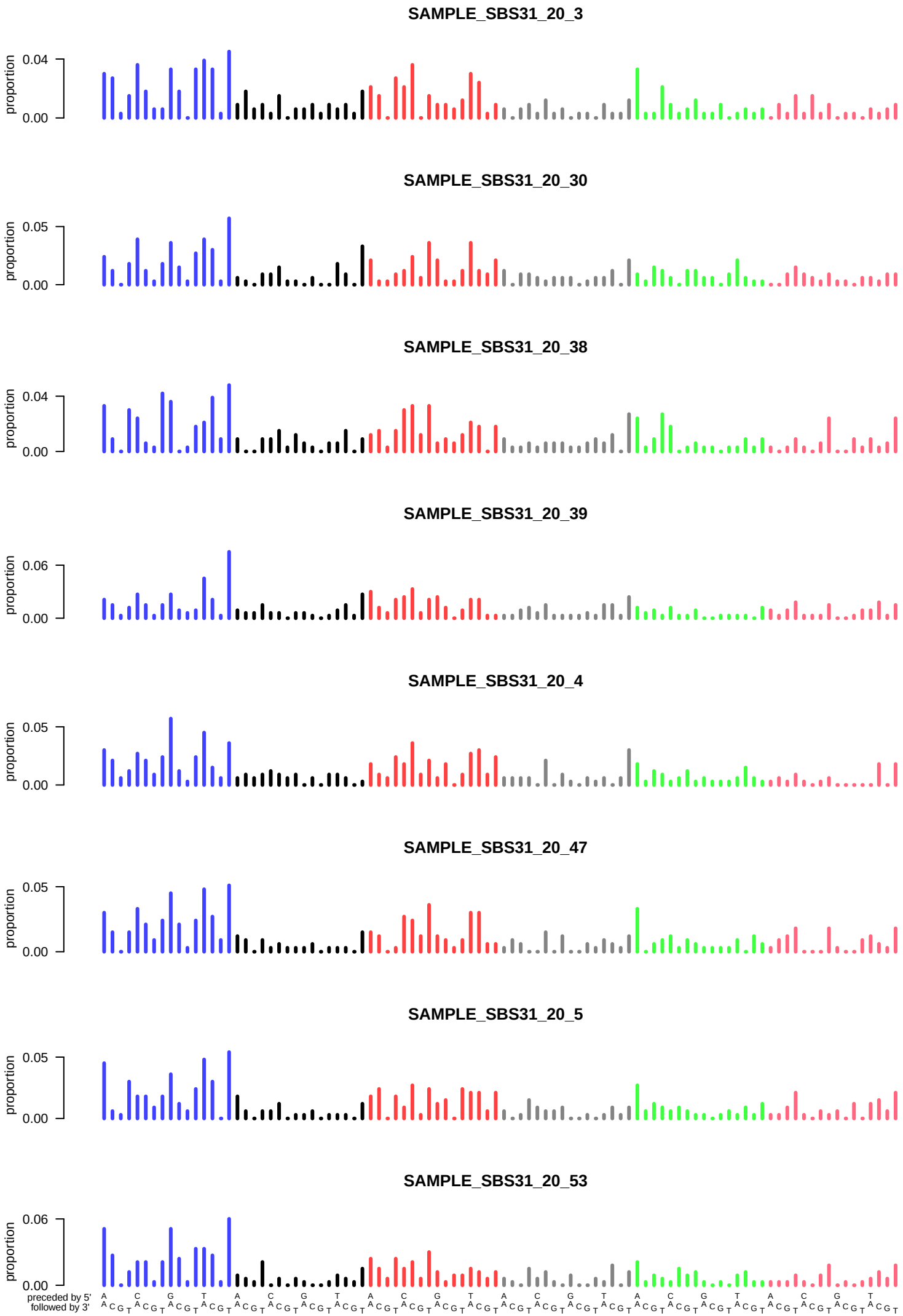
followed by 3'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proportion
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SAMPLE_SBS31_20_4
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SAMPLE_SBS31_20_47
proportion
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SAMPLE_SBS31_20_5
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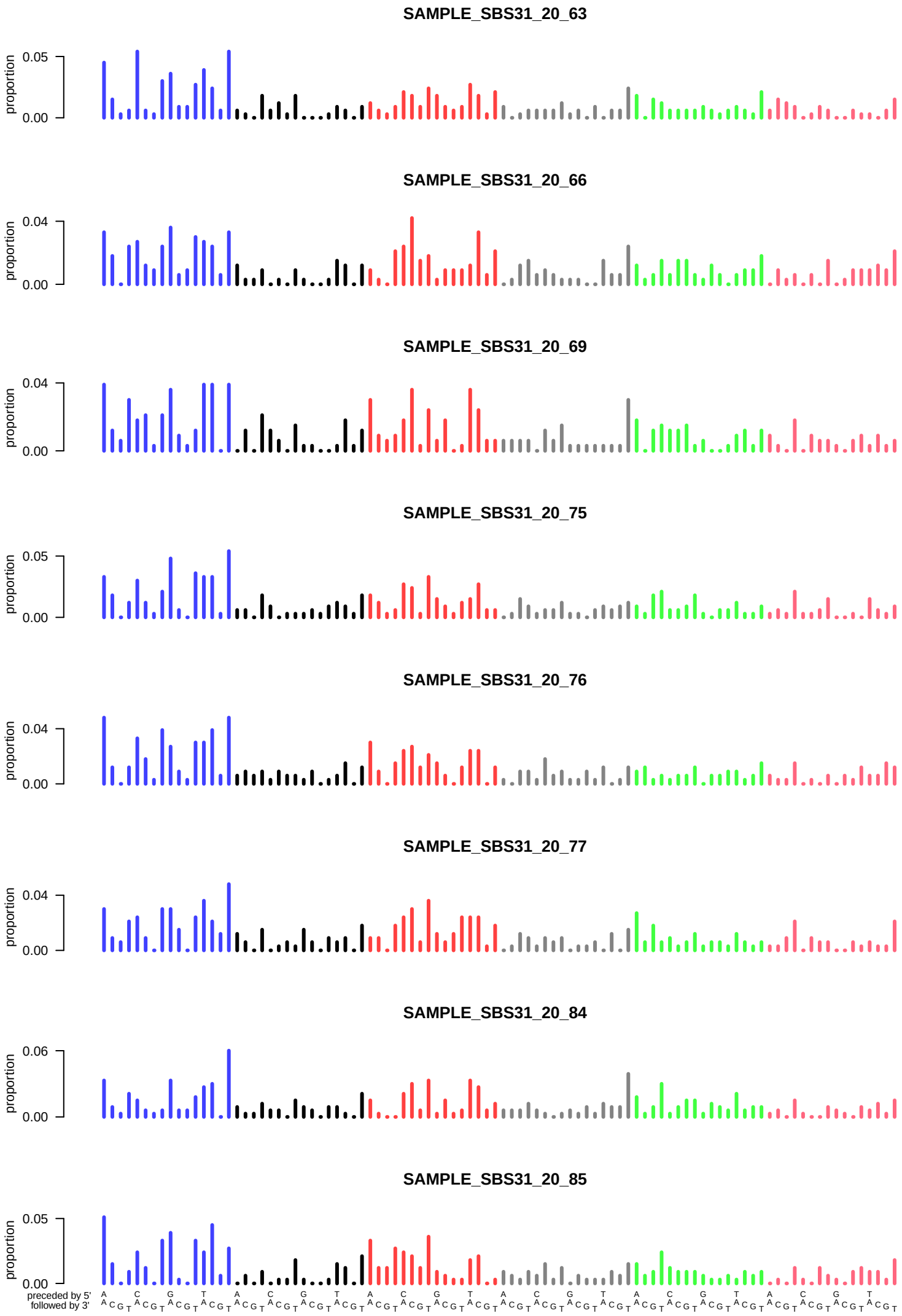
preceded by 5'
followed by 3'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SAMPLE_SBS31_20_77
proportion
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SAMPLE_SBS31_20_84
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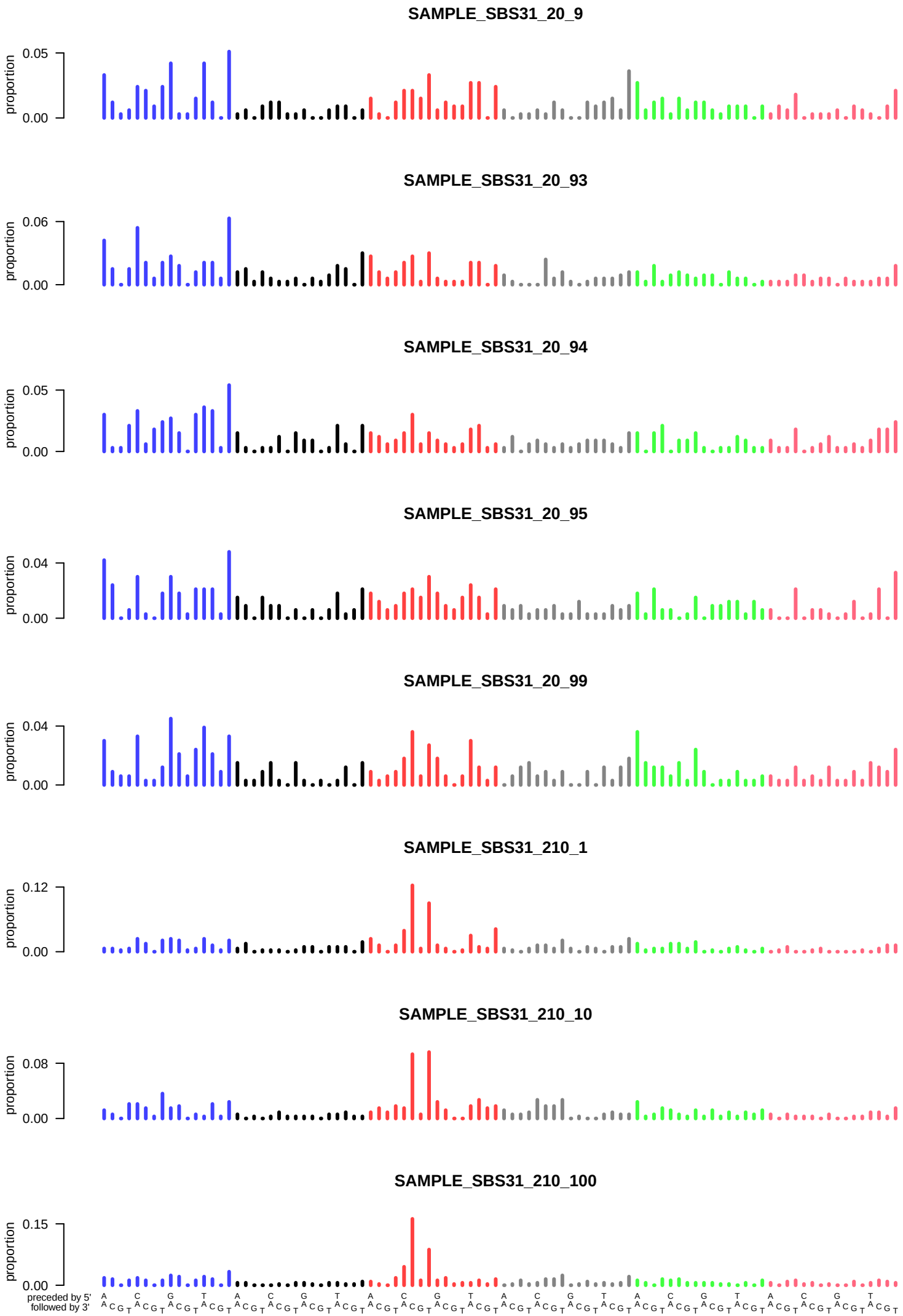
preceded by 5'
followed by 3'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SAMPLE_SBS31_210_1
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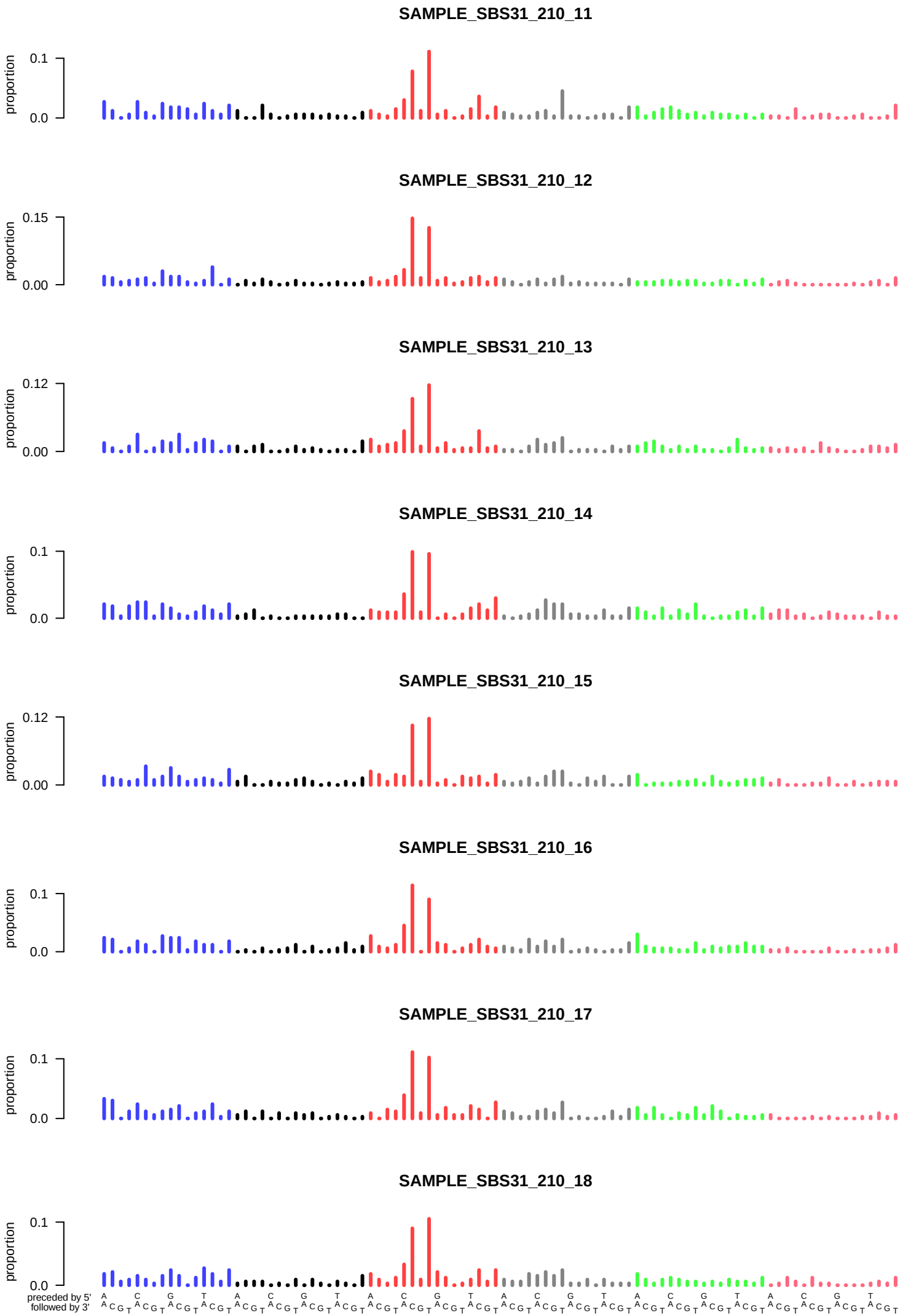
followed by 3'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SAMPLE_SBS31_210_14
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SAMPLE_SBS31_210_15
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SAMPLE_SBS31_210_16
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SAMPLE_SBS31_210_17
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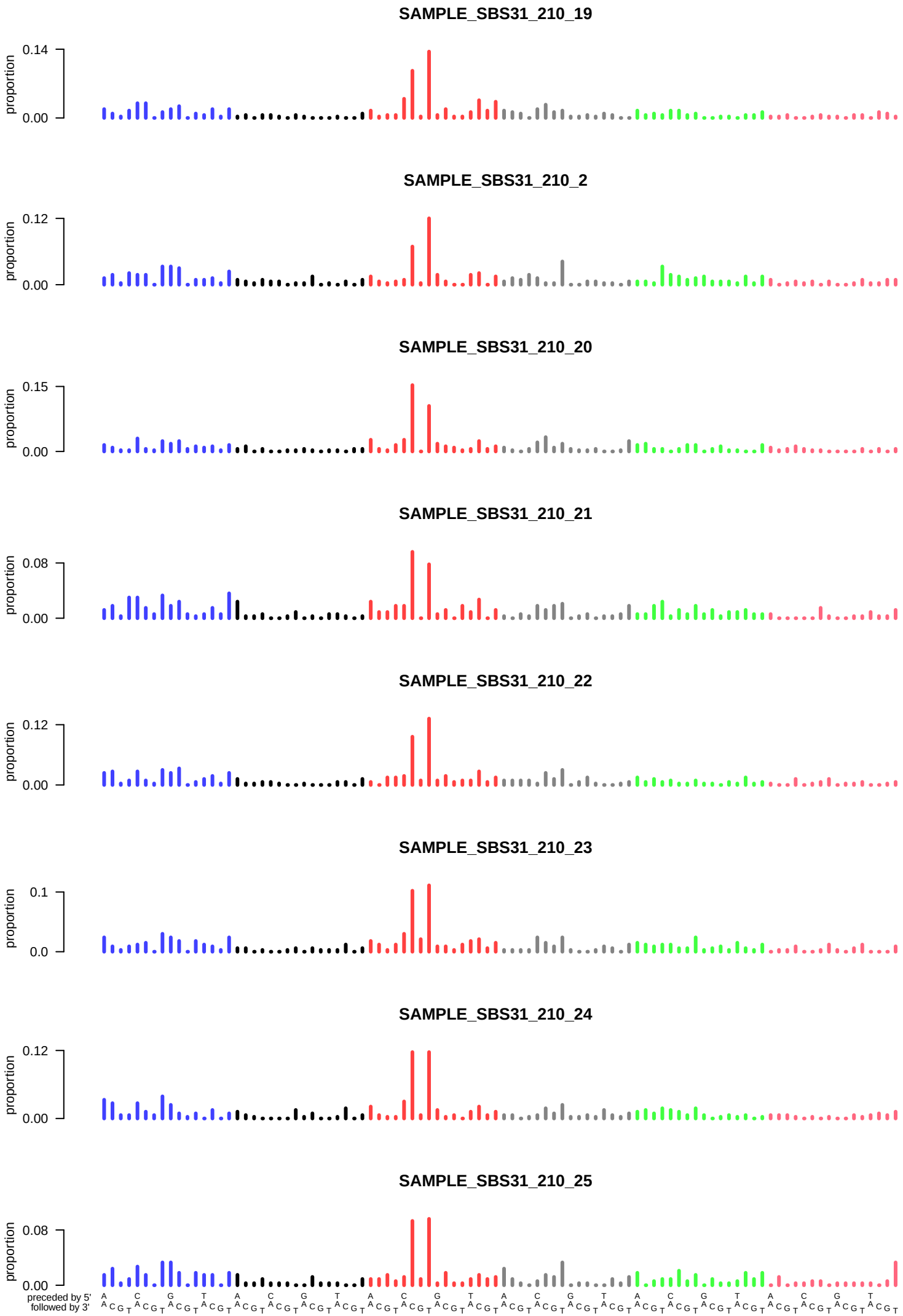
followed by 3'
A C G T A C G T A C G T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SAMPLE_SBS31_210_22
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SAMPLE_SBS31_210_23
proportion
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SAMPLE_SBS31_210_24
proportion
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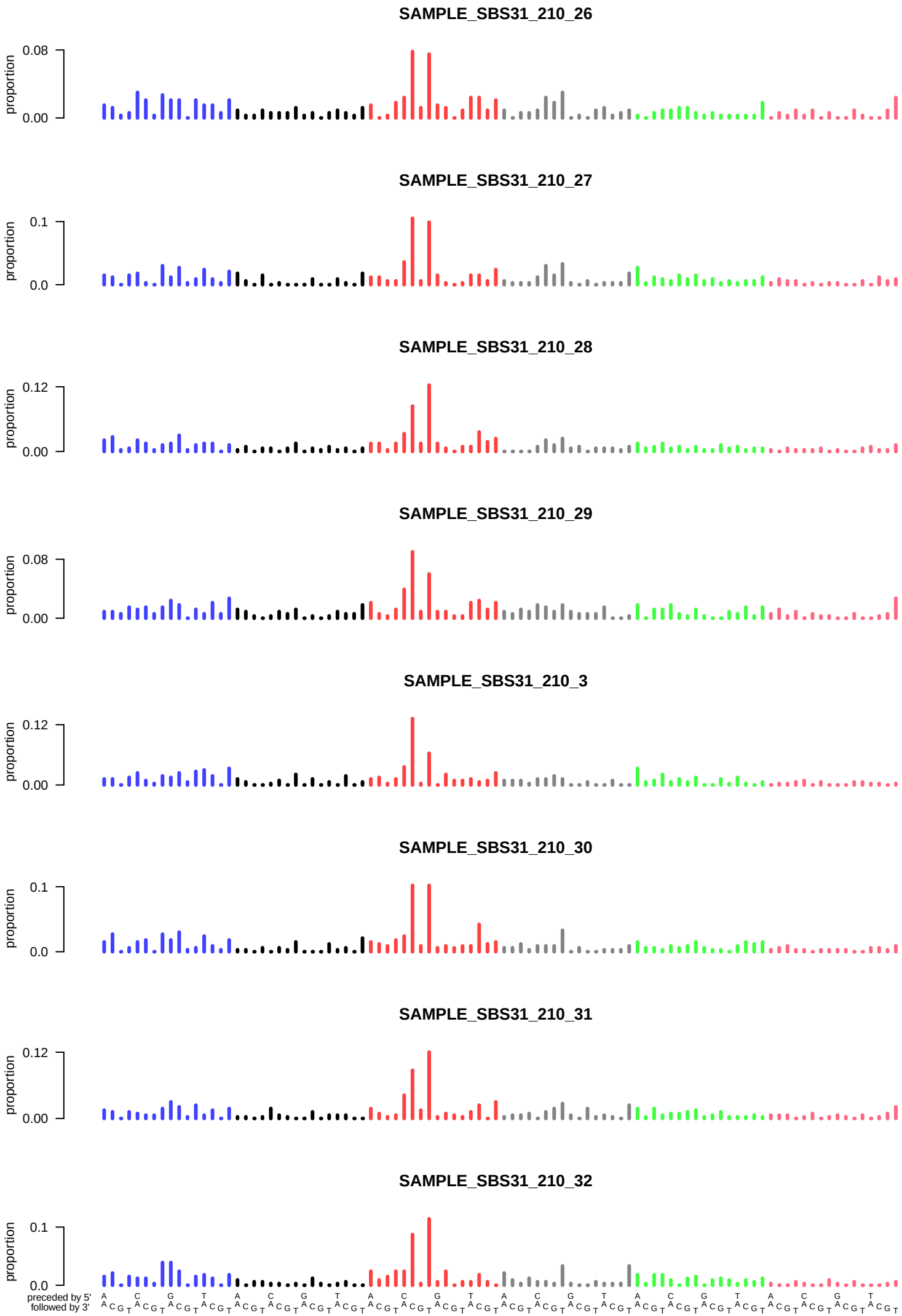
followed by 3'
A C G T A C G T A C G T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proportion
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SAMPLE_SBS31_210_3
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SAMPLE_SBS31_210_30
proportion
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SAMPLE_SBS31_210_31
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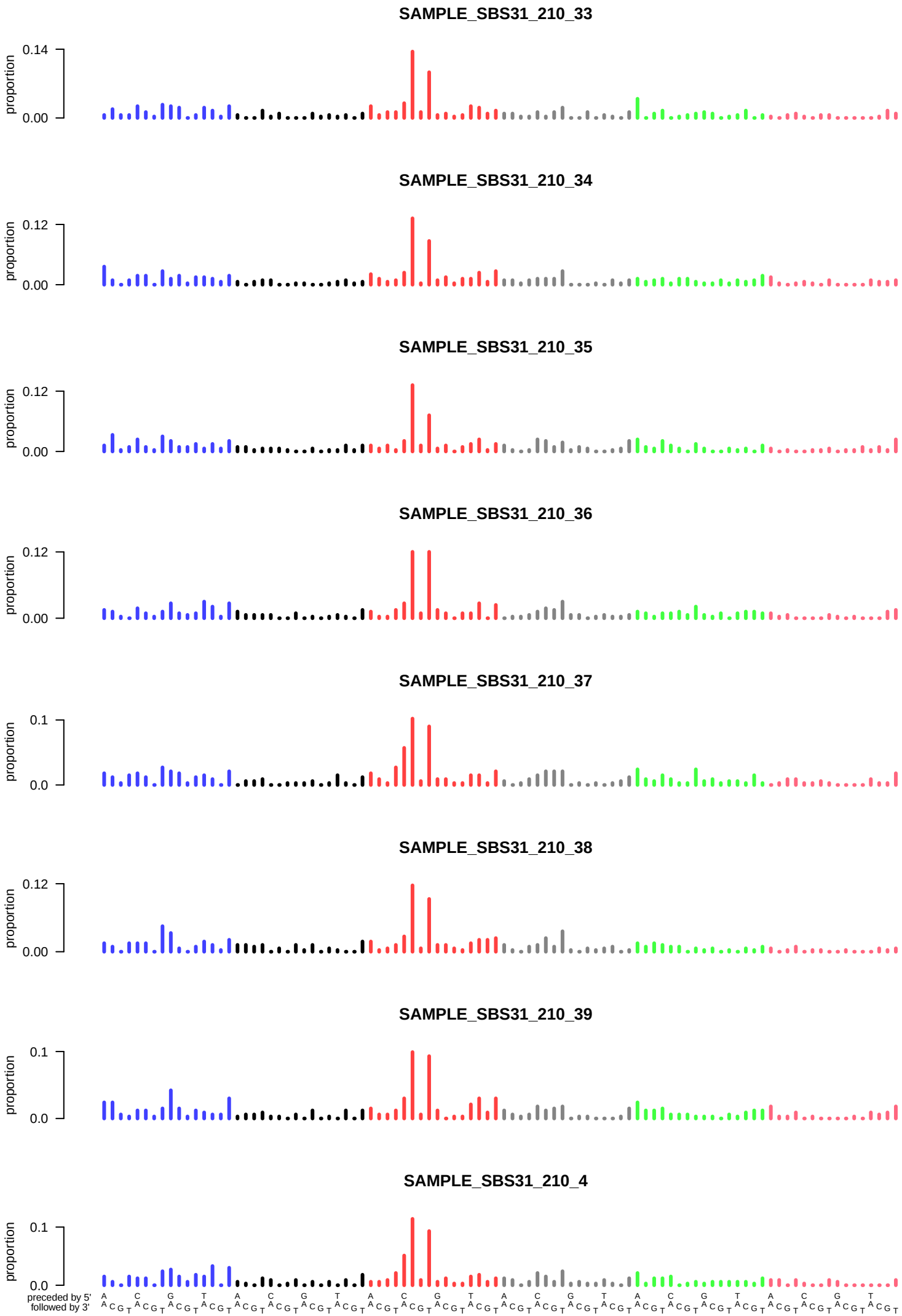
followed by 3'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SAMPLE_SBS31_210_37
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SAMPLE_SBS31_210_38
proportion
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SAMPLE_SBS31_210_39
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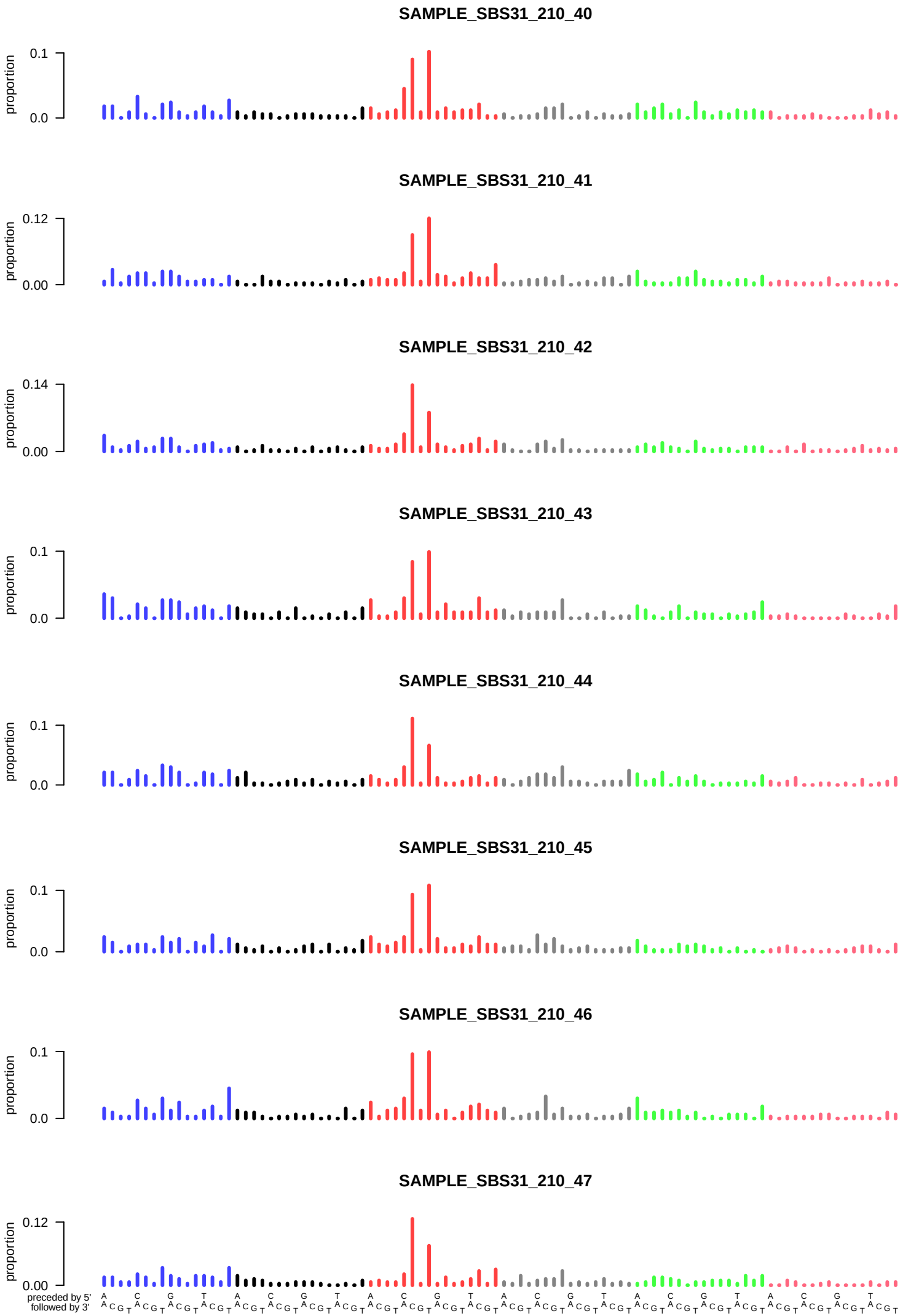
followed by 3'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SAMPLE_SBS31_210_45
proportion
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SAMPLE_SBS31_210_46
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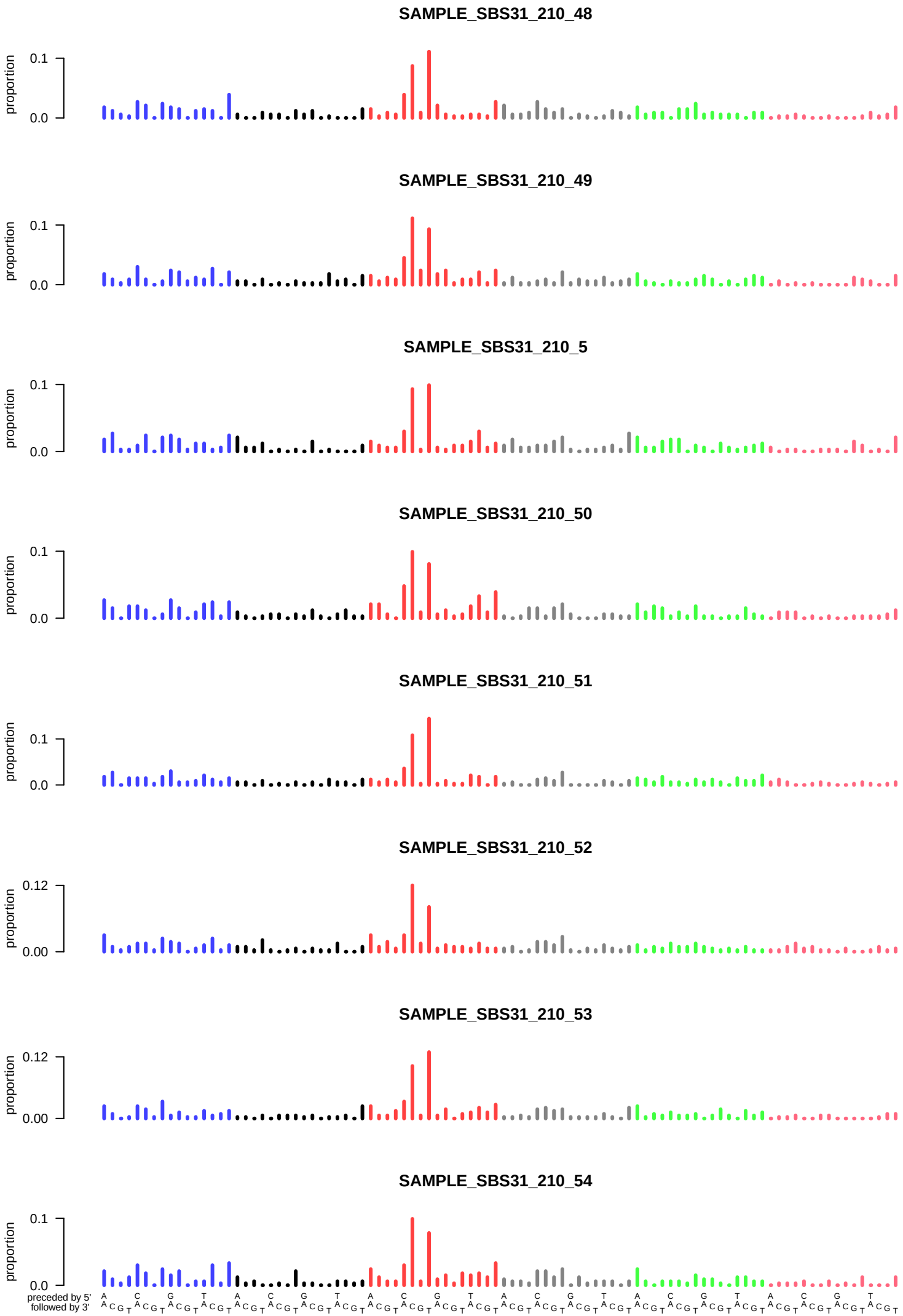
followed by 3'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SAMPLE_SBS31_210_50
SAMPLE_SBS31_210_51
SAMPLE_SBS31_210_52
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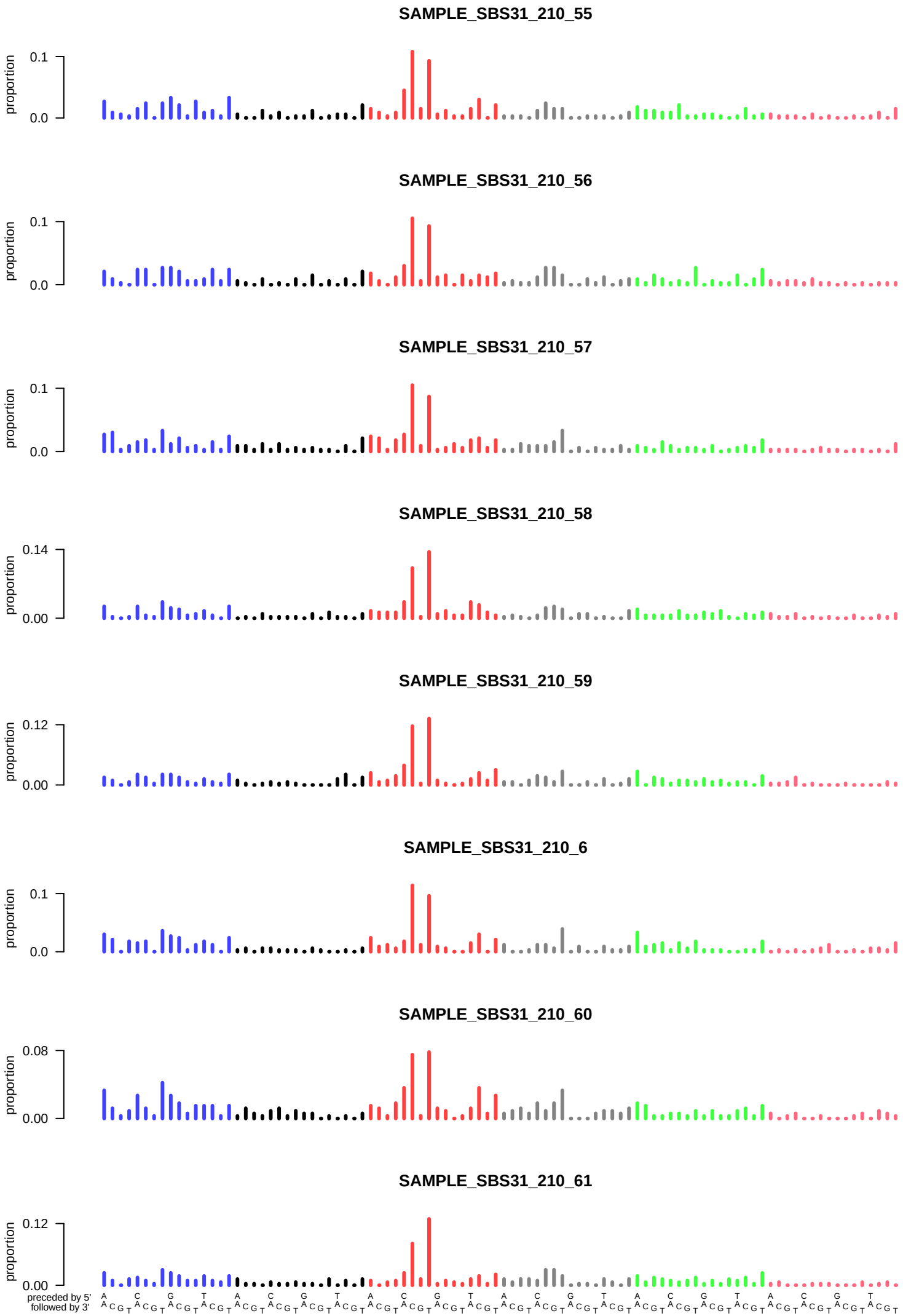
followed by 3'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SAMPLE_SBS31_210_57
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SAMPLE_SBS31_210_58
proportion
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SAMPLE_SBS31_210_59
proportion
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SAMPLE_SBS31_210_6
proportion
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SAMPLE_SBS31_210_60
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SAMPLE_SBS31_210_61
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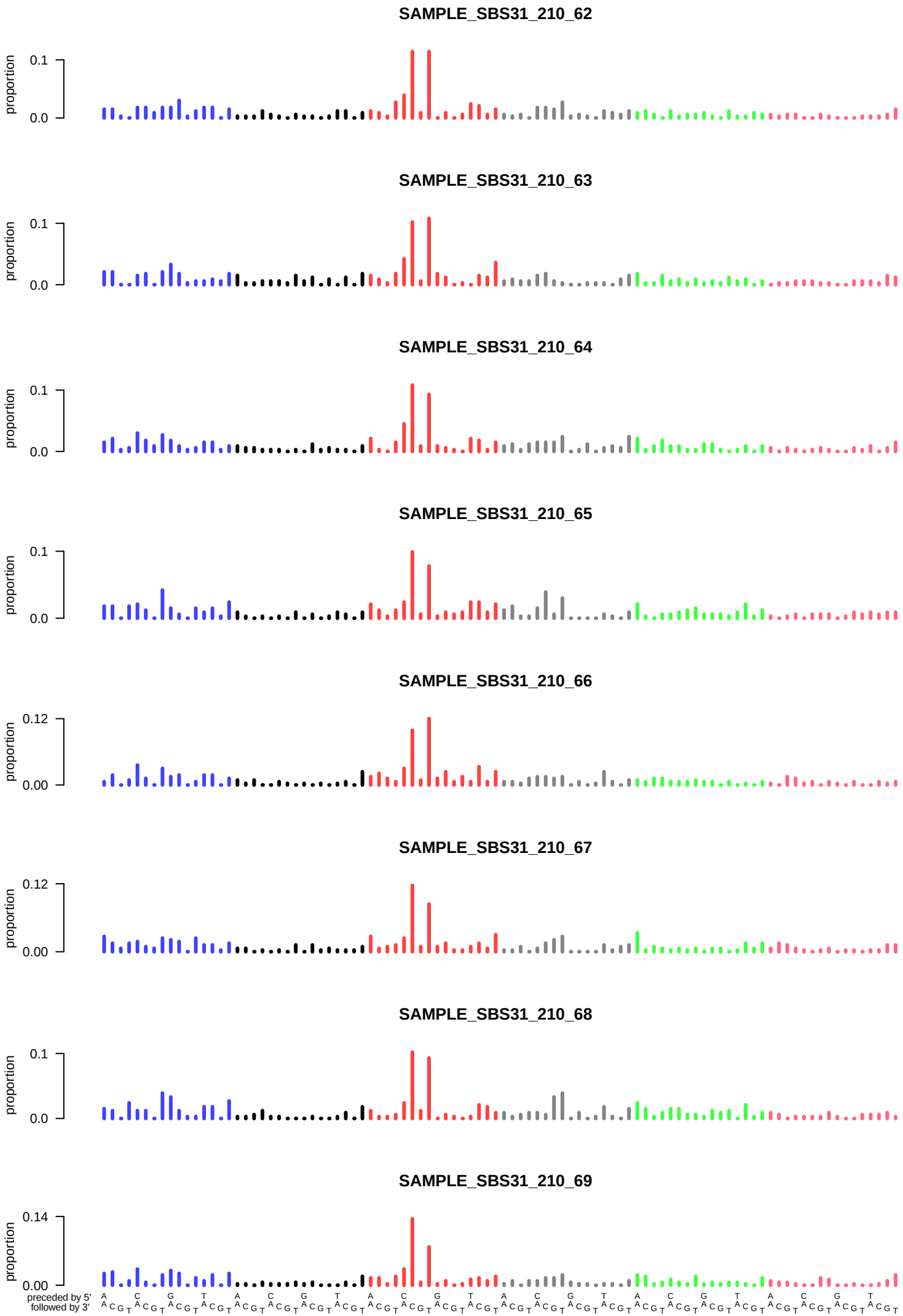
0.00
preceded by 5'
followed by 3'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SAMPLE_SBS31_210_65
proportion
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proportion
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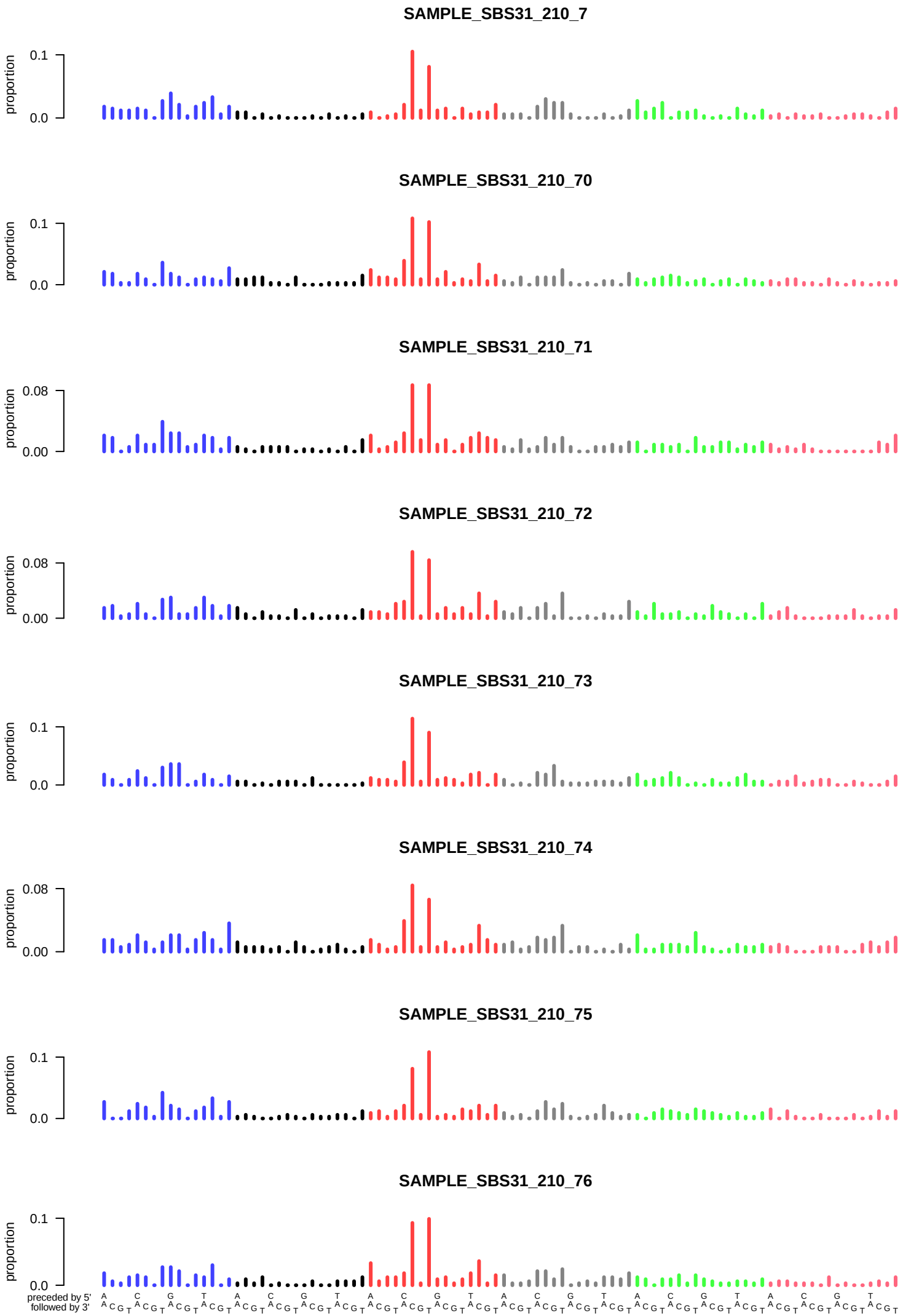
followed by 3'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SAMPLE_SBS31_210_74
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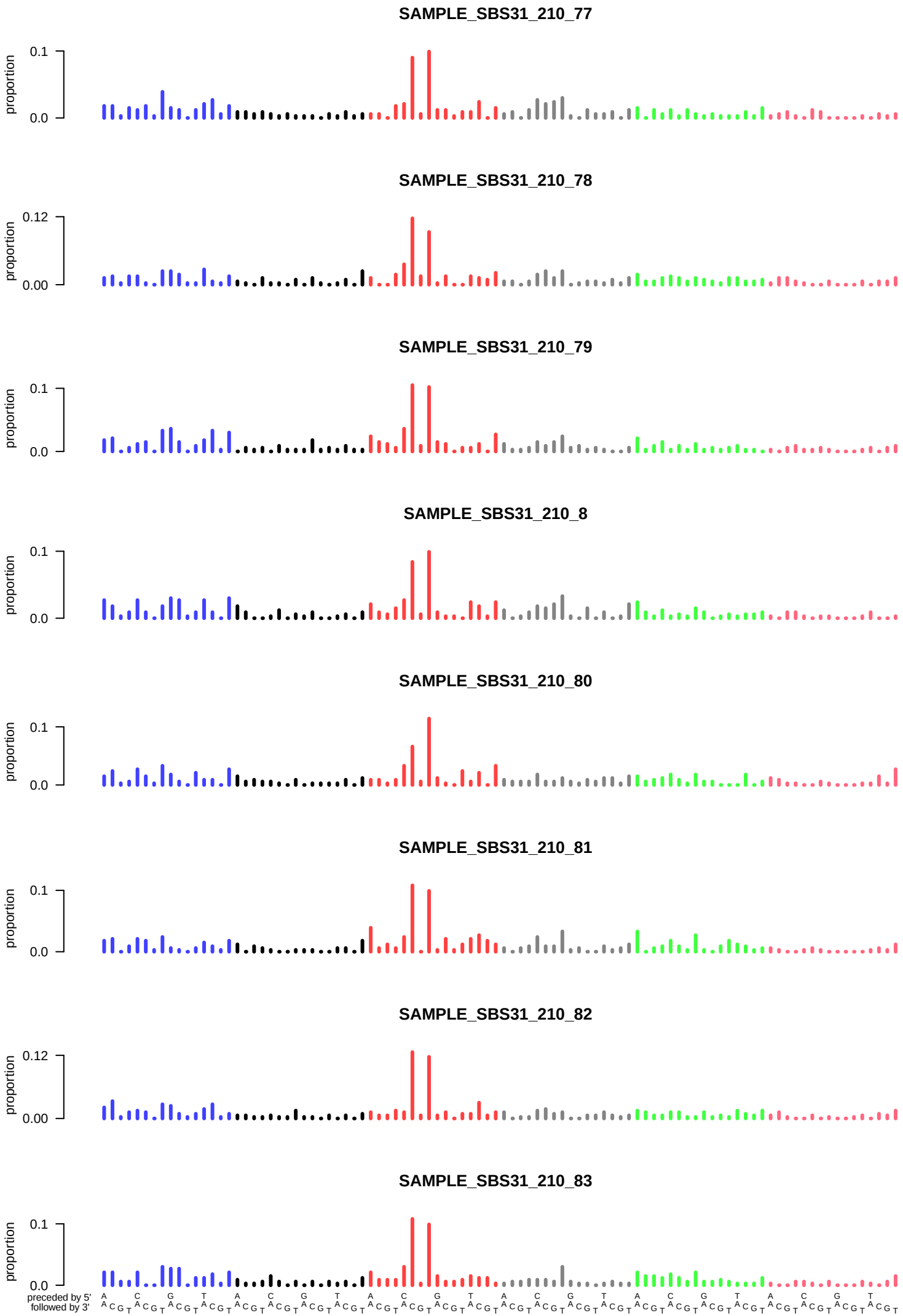
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SAMPLE_SBS31_210_8
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SAMPLE_SBS31_210_81
proportion
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SAMPLE_SBS31_210_82
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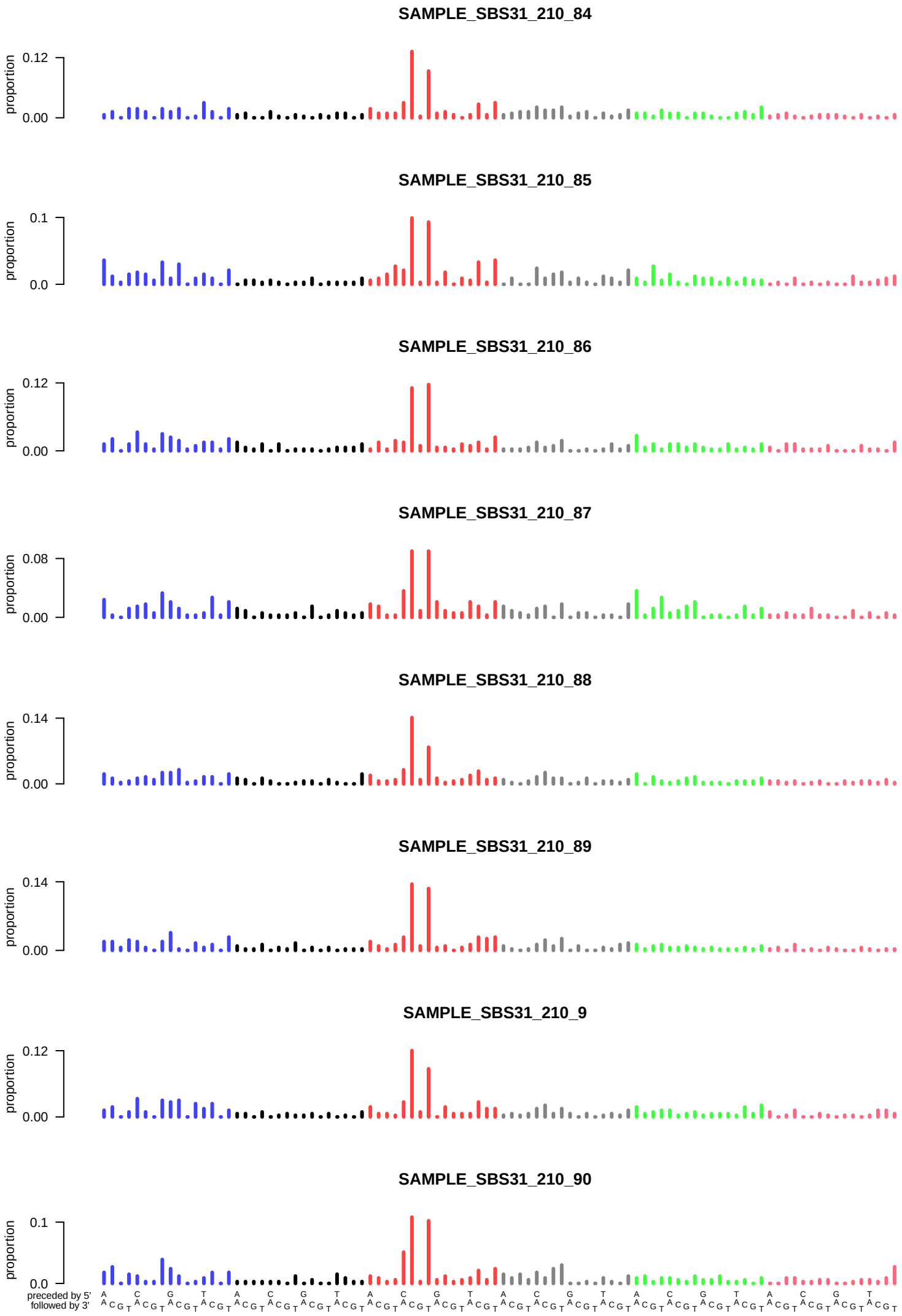
preceded by 5'
followed by 3'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SAMPLE_SBS31_210_89
proportion
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SAMPLE_SBS31_210_9
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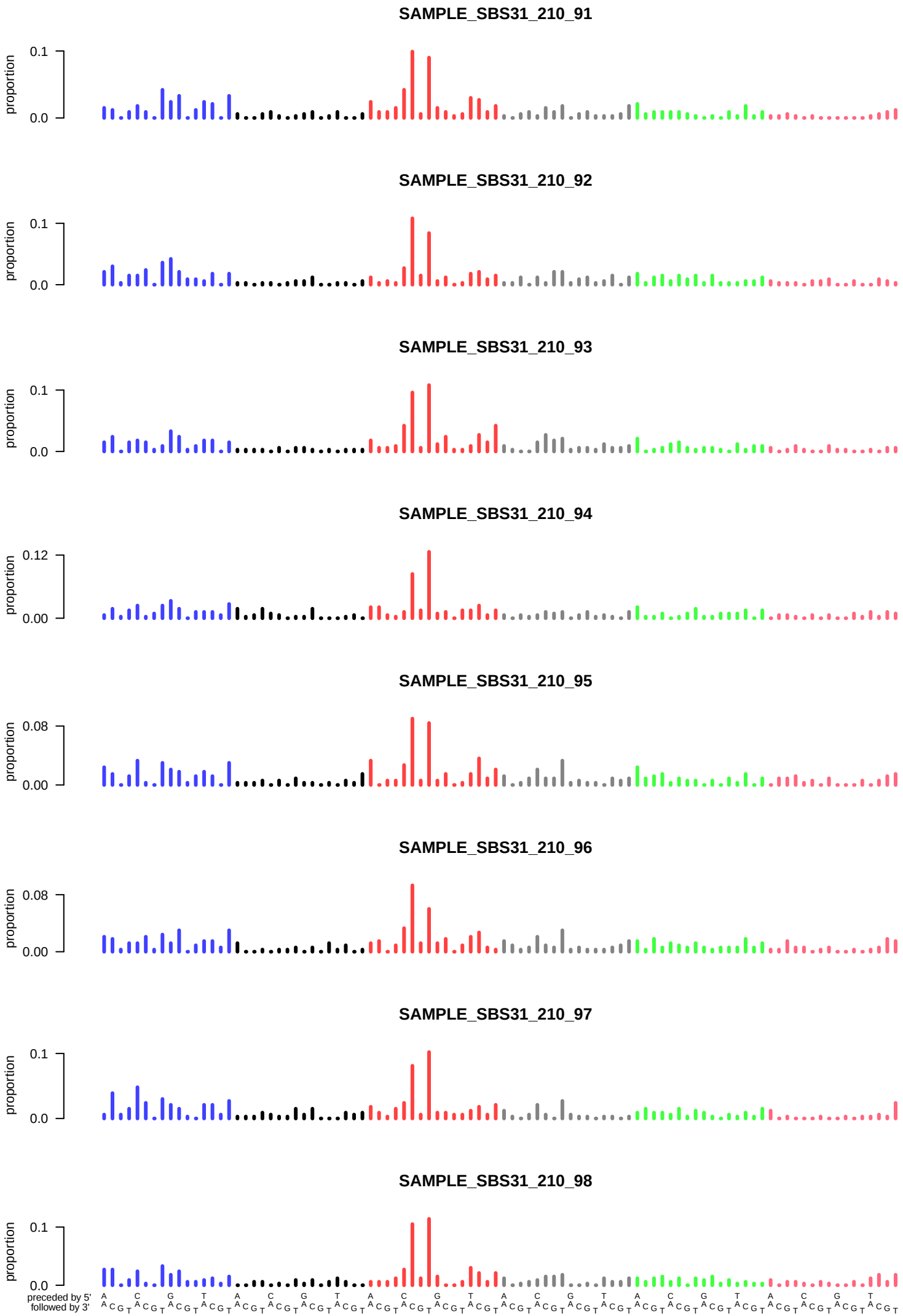
preceded by 5'
followed by 3'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SAMPLE_SBS31_210_93
proportion
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SAMPLE_SBS31_210_94
proportion
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SAMPLE_SBS31_210_95
proportion
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SAMPLE_SBS31_210_96
proportion
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SAMPLE_SBS31_210_97
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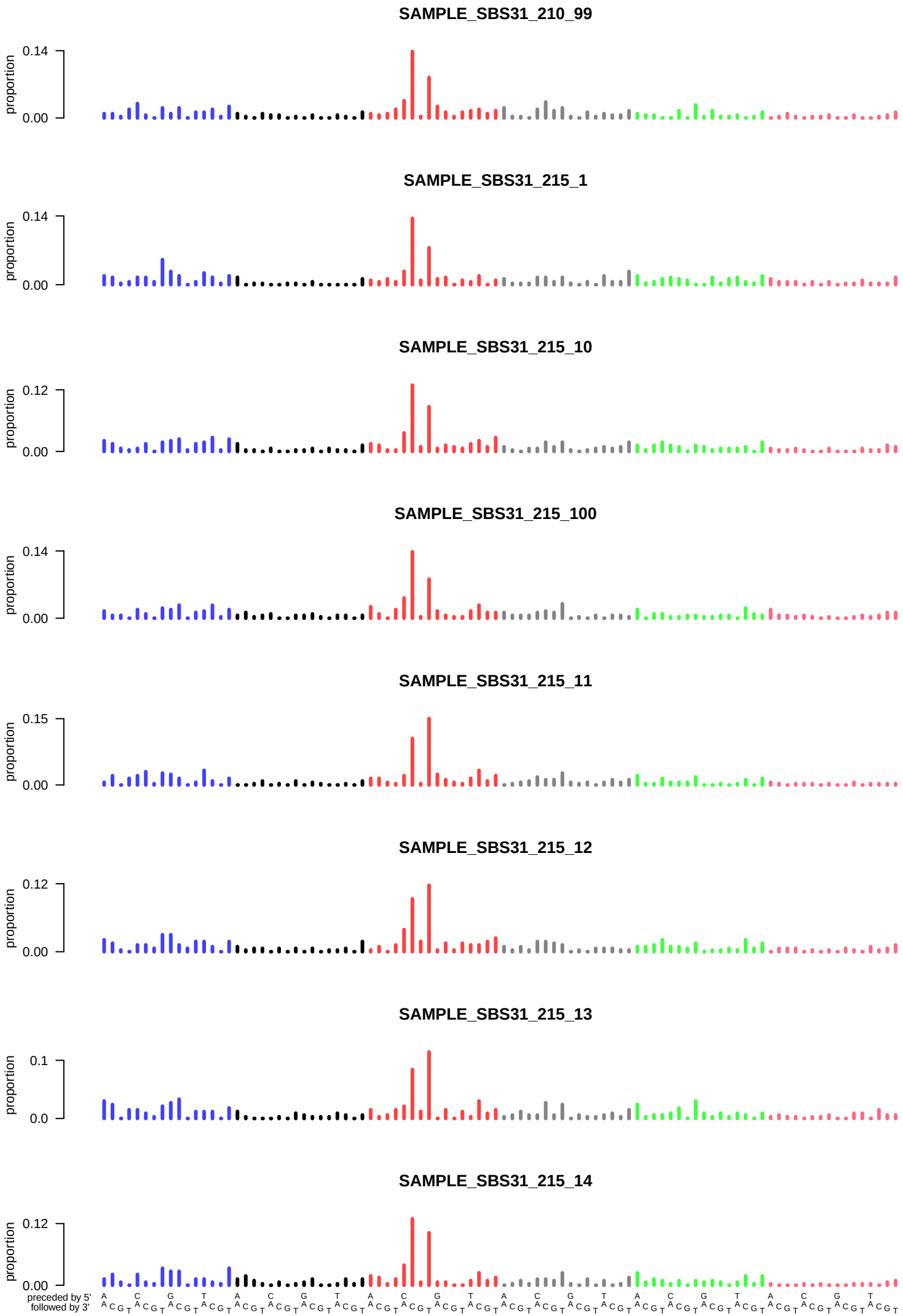
preceded by 5'
followed by 3'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SAMPLE_SBS31_215_11
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SAMPLE_SBS31_215_12
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SAMPLE_SBS31_215_13
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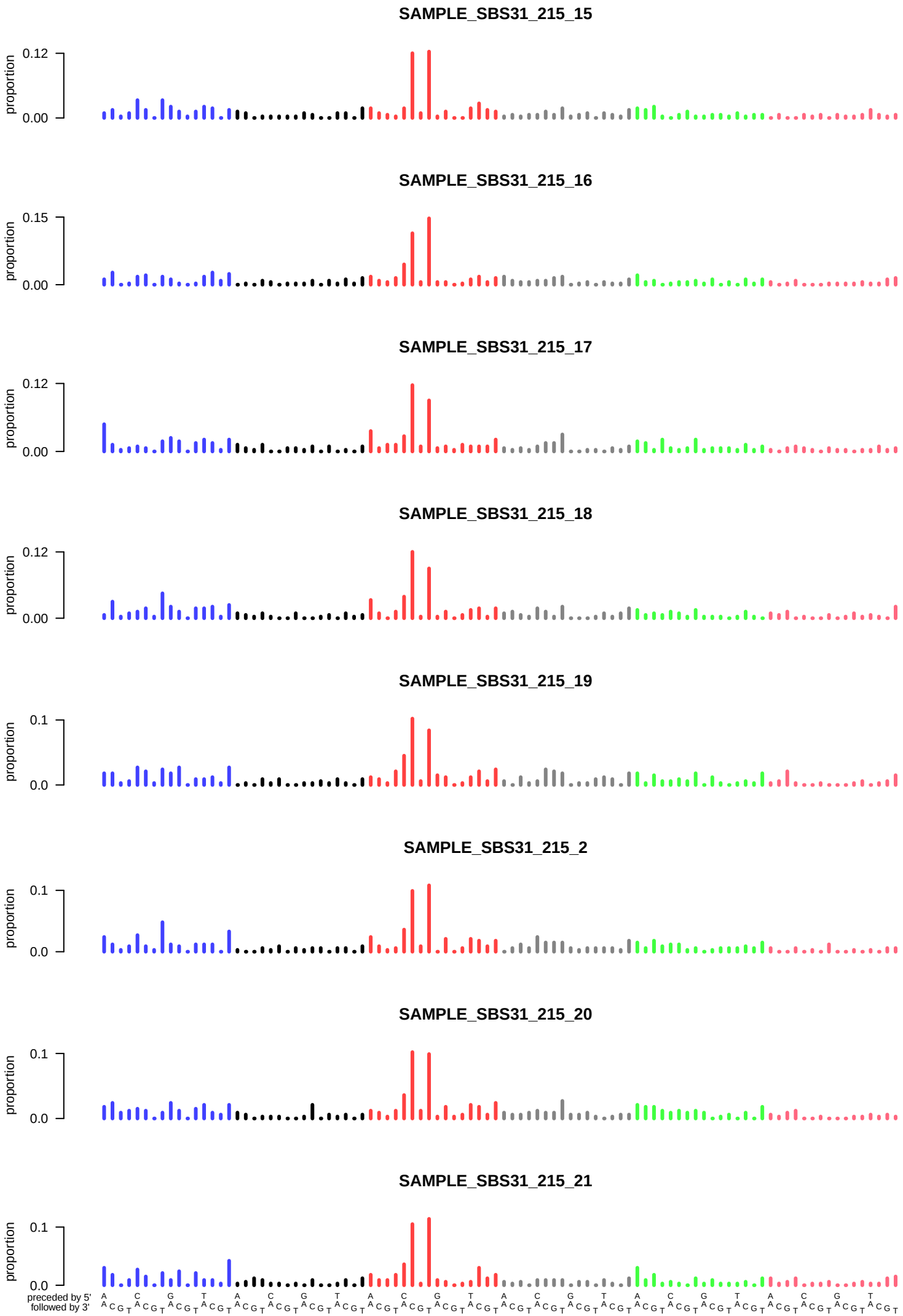
preceded by 5'
followed by 3'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SAMPLE_SBS31_215_19
proportion
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SAMPLE_SBS31_215_2
proportion
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SAMPLE_SBS31_215_20
proportion
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proportion
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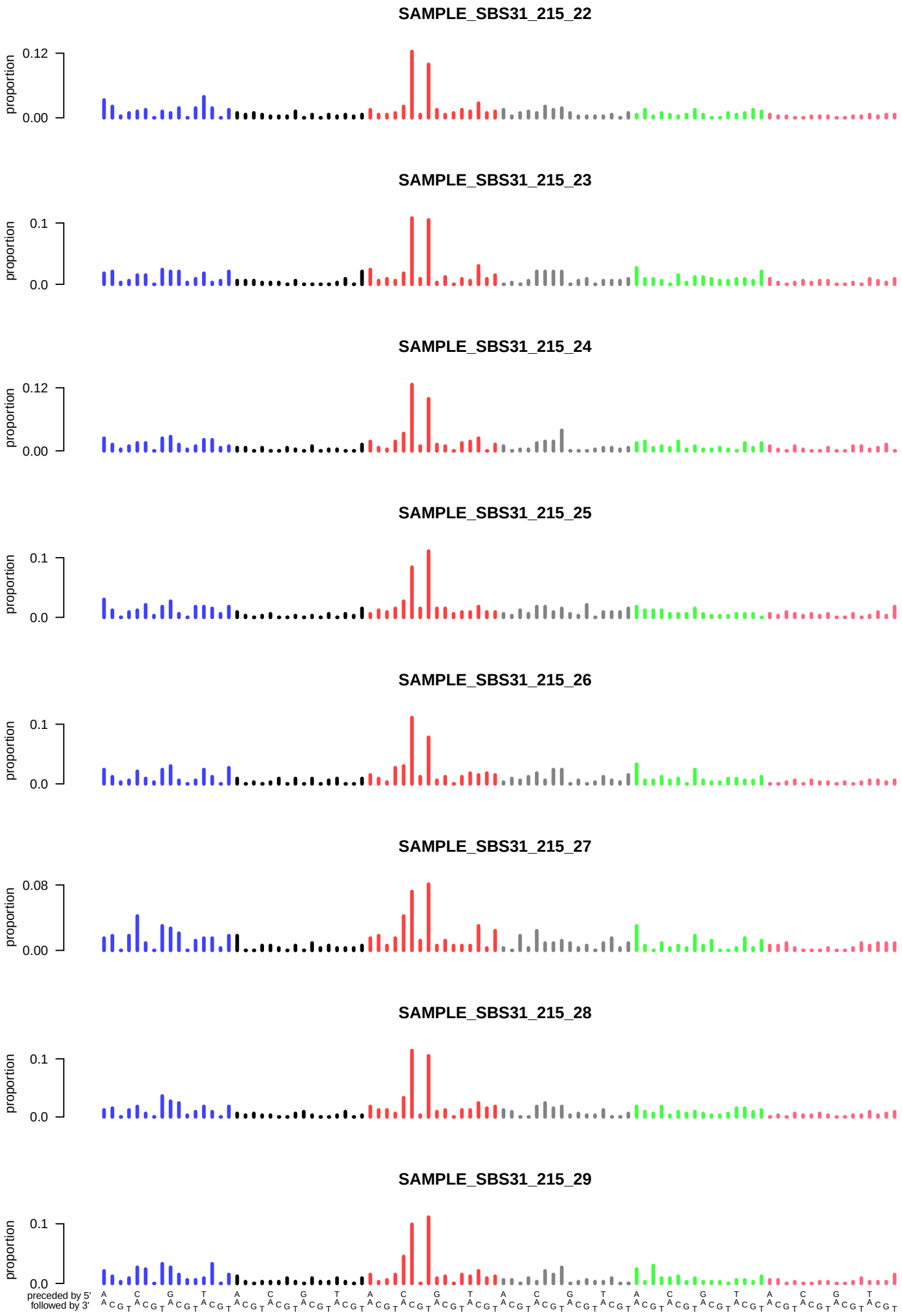
preceded by 5'
followed by 3'
A C G T A C G T A C G T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SAMPLE_SBS31_215_24
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SAMPLE_SBS31_215_26
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SAMPLE_SBS31_215_27
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SAMPLE_SBS31_215_28
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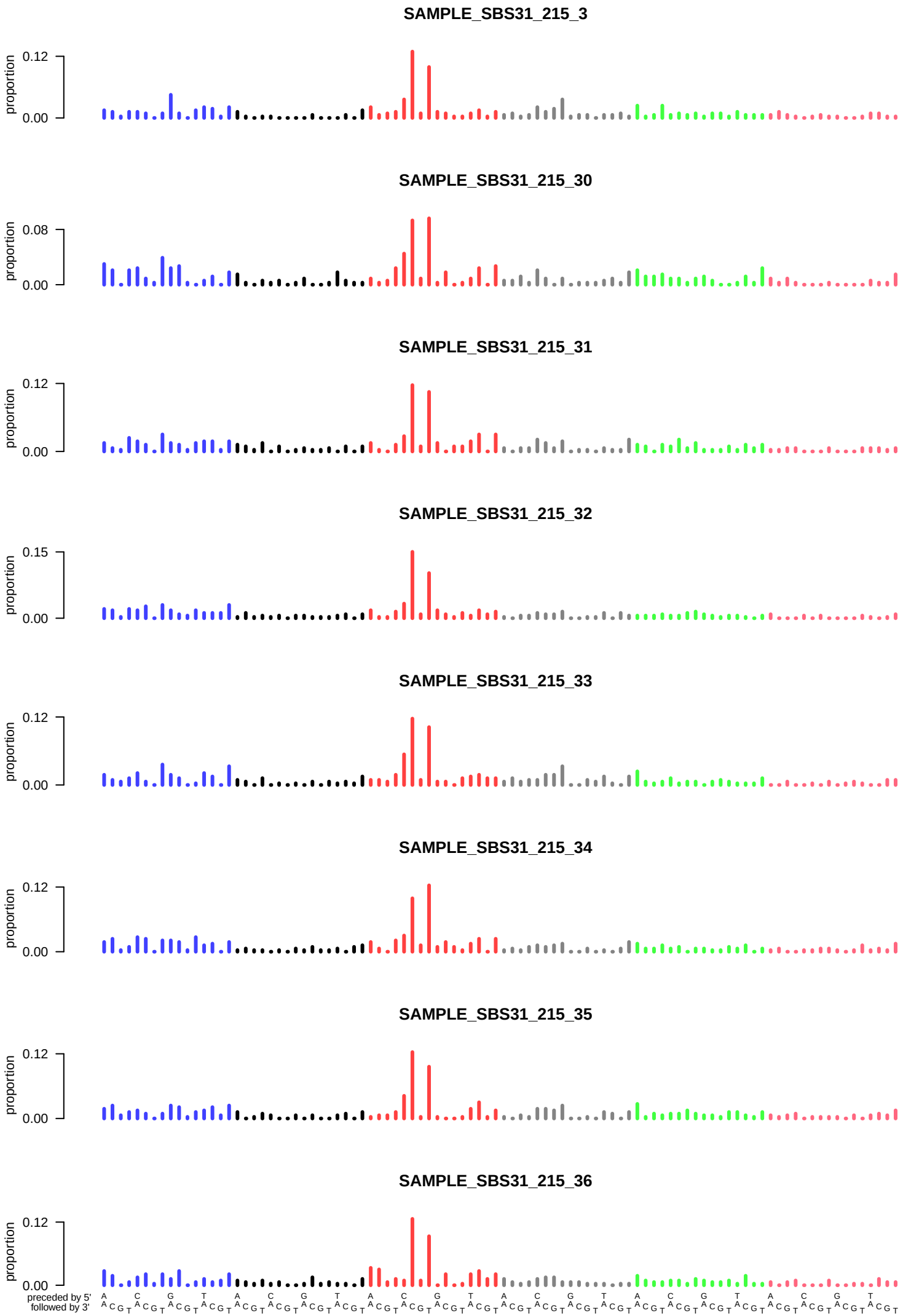
followed by 3'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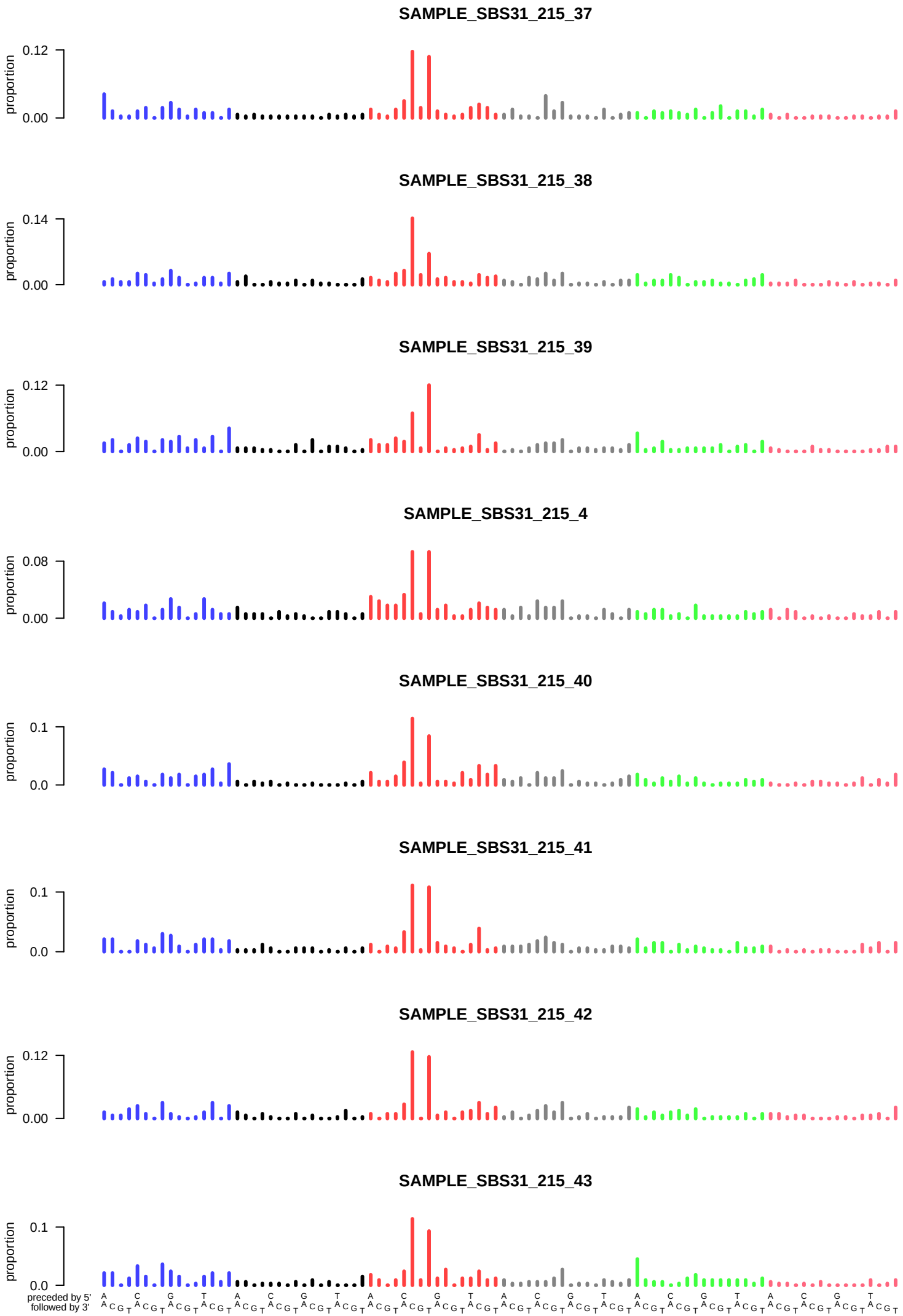
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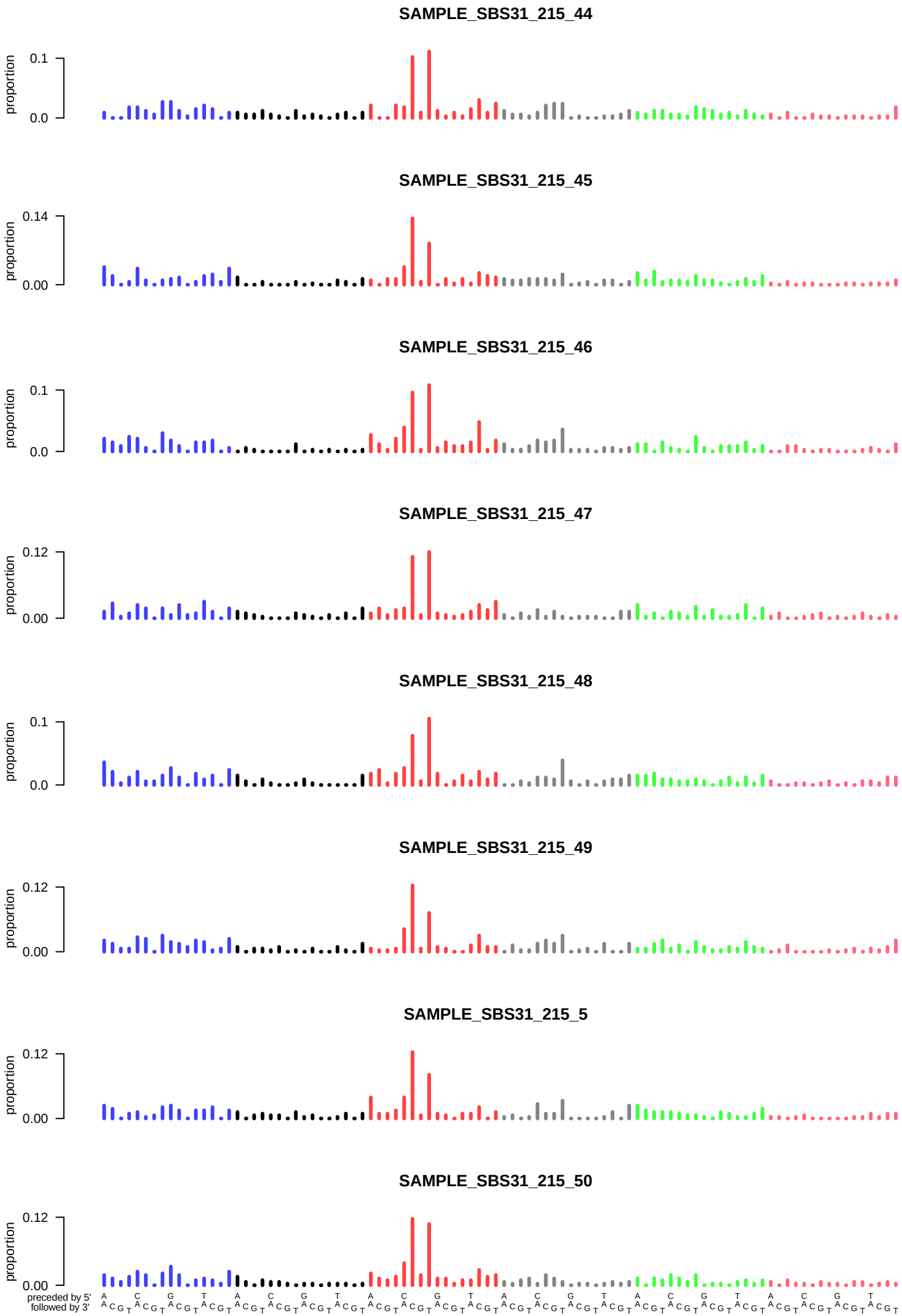
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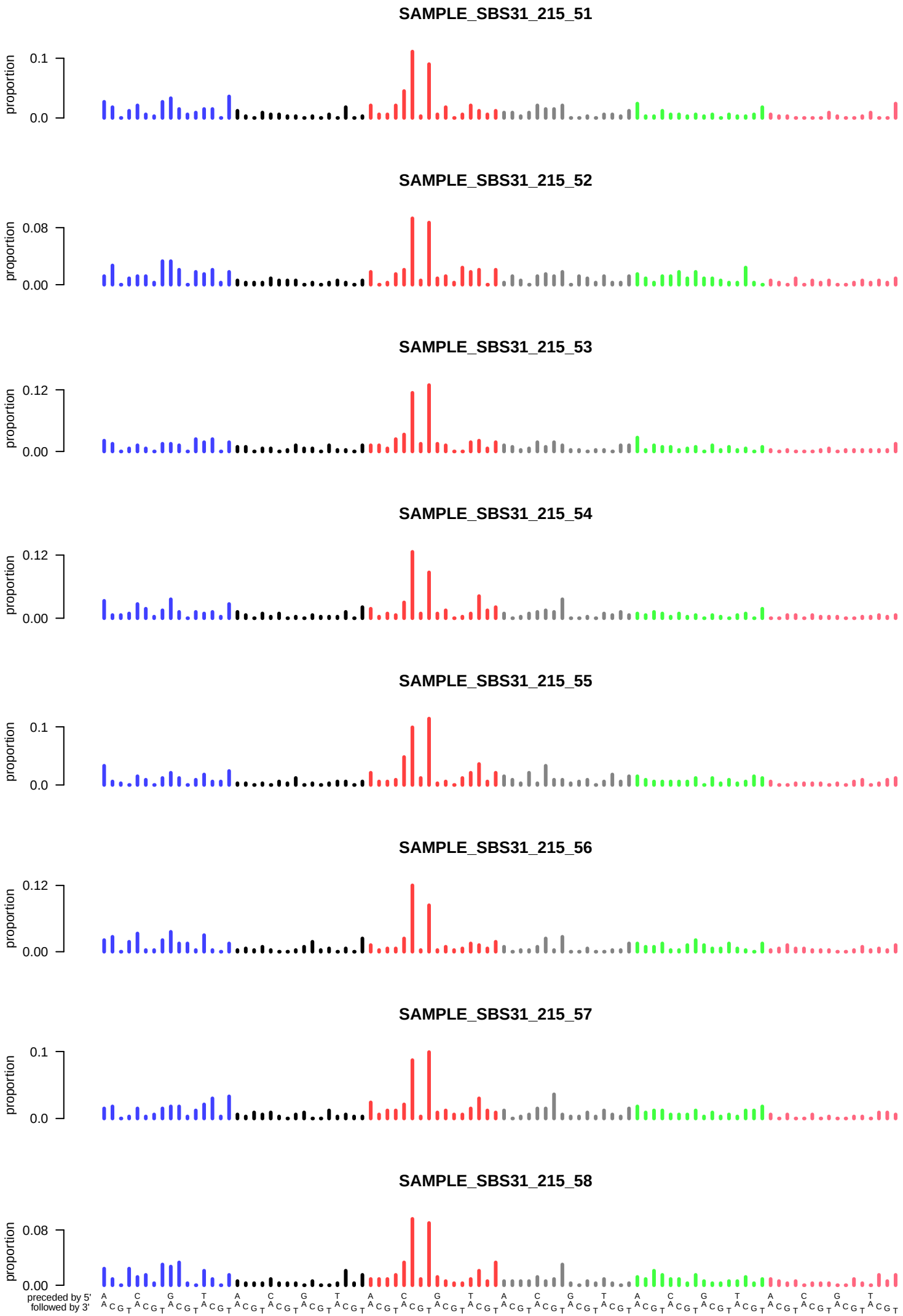
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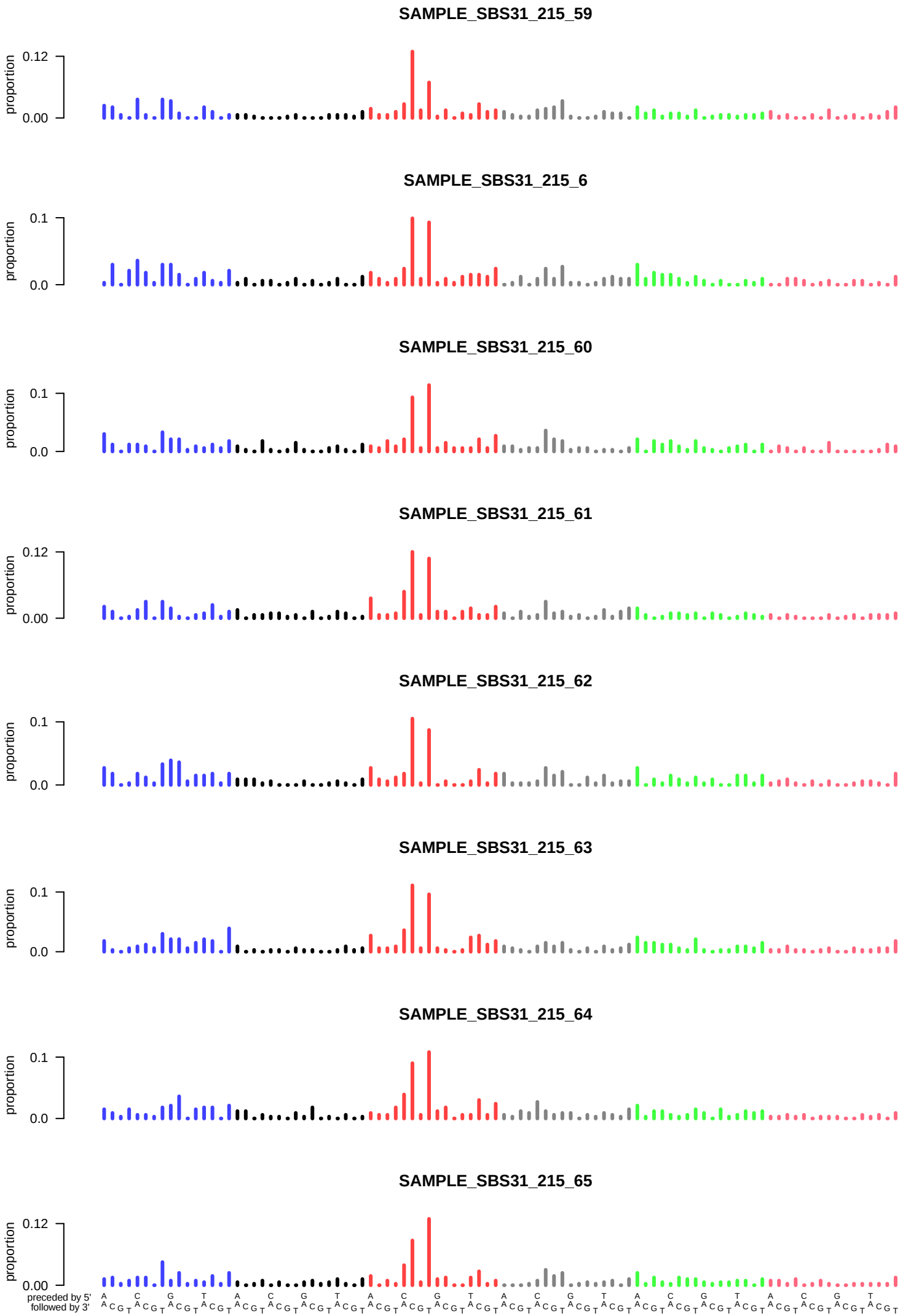
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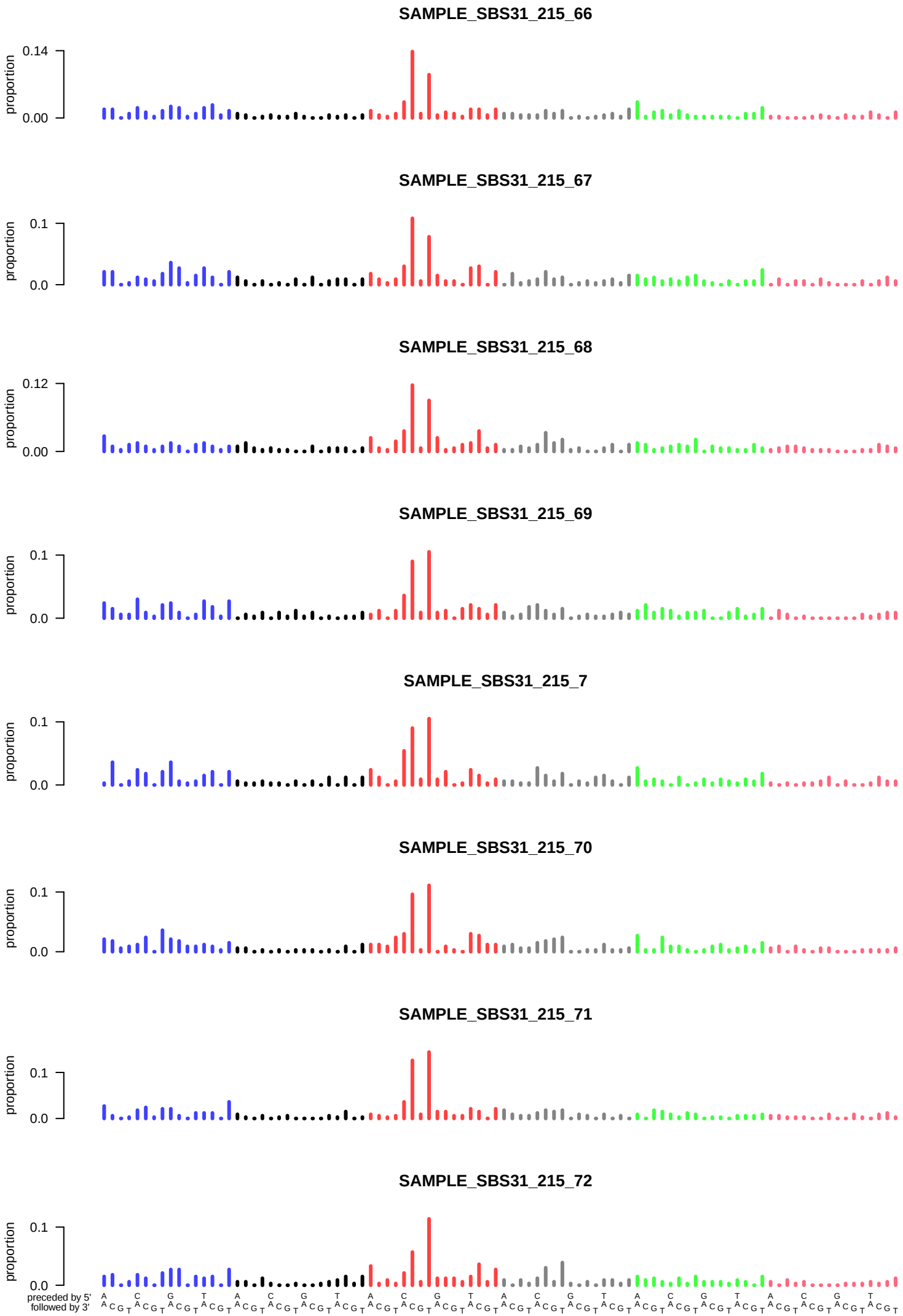
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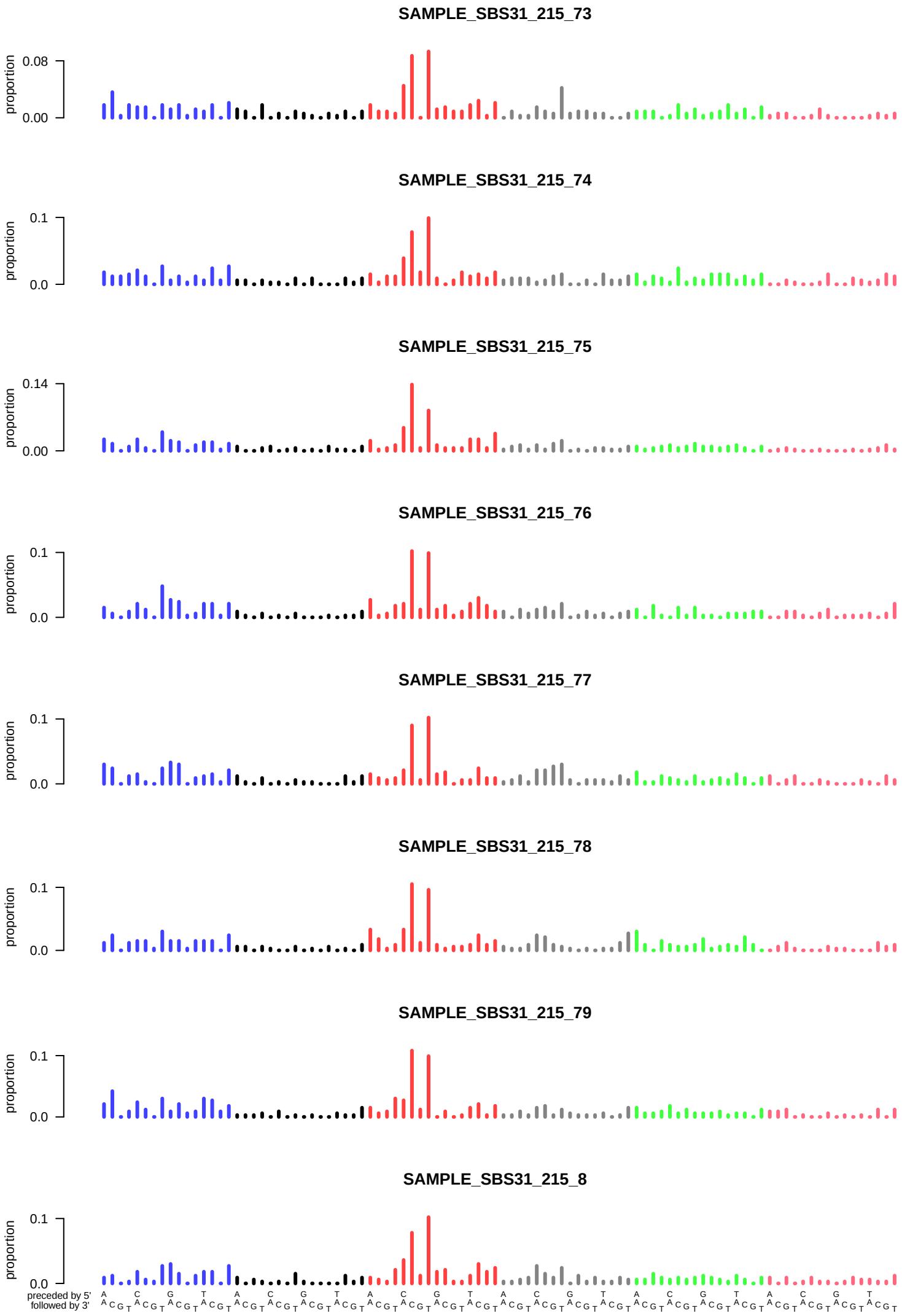
followed by 3'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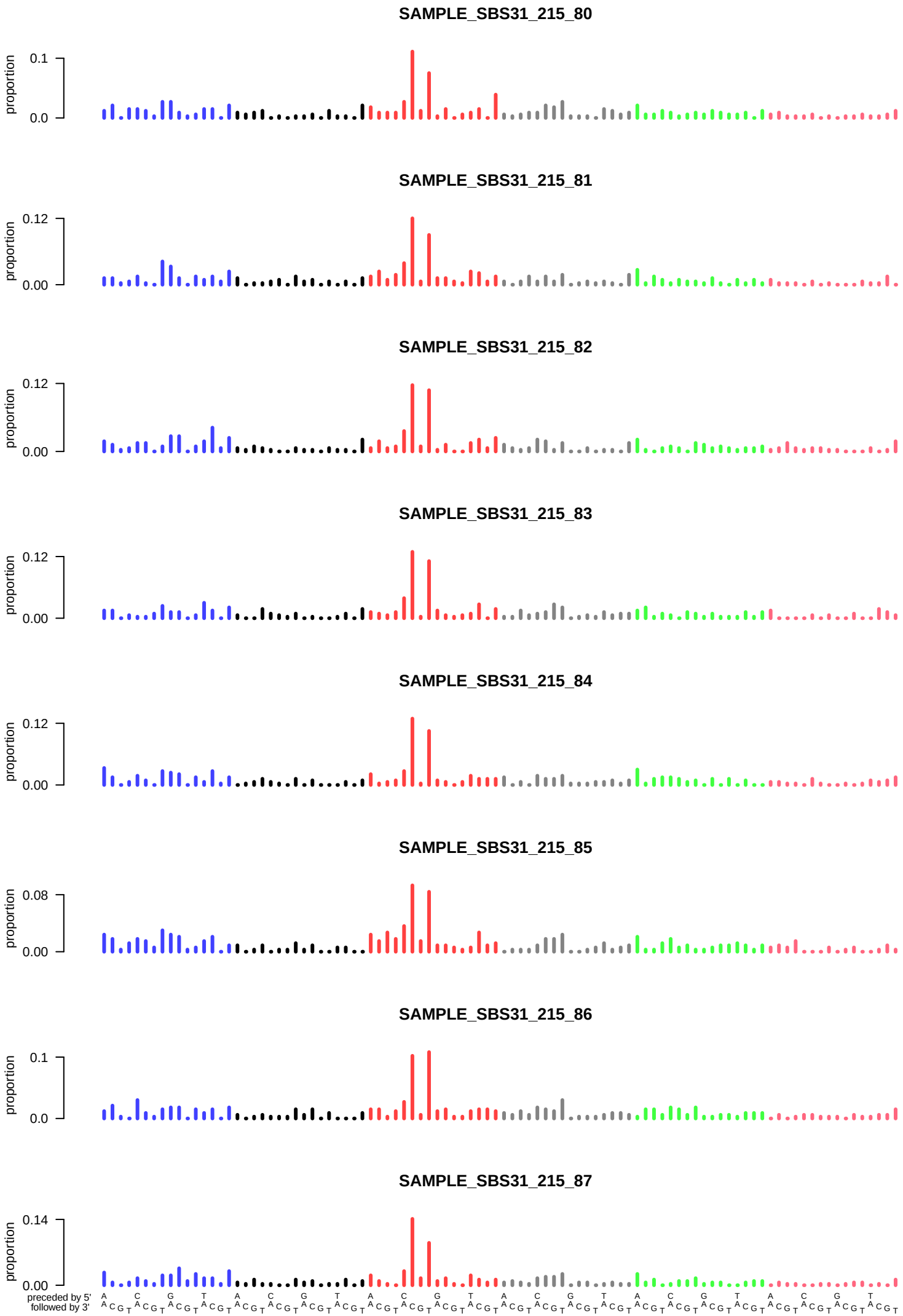
followed by 3'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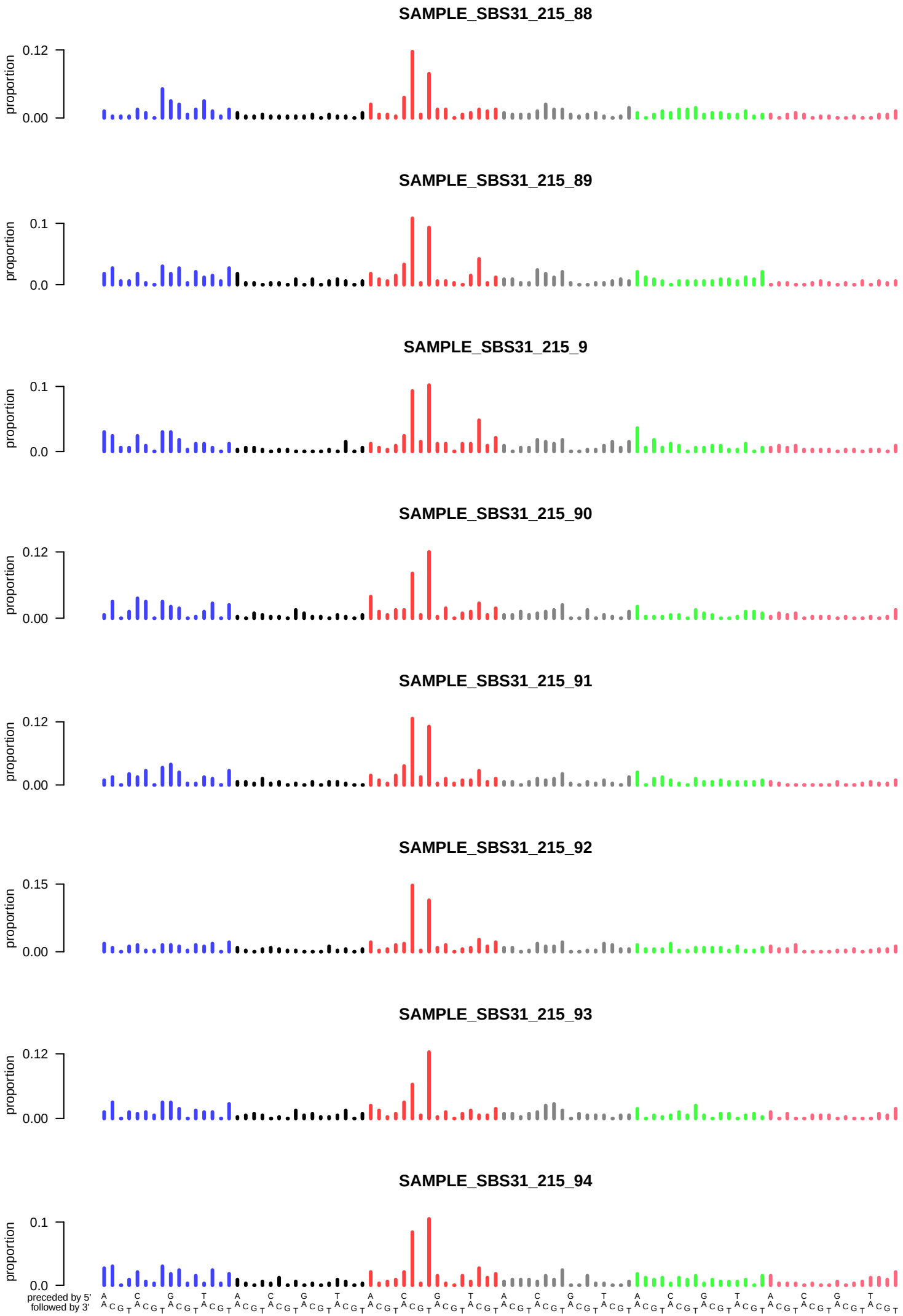
followed by 3'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SAMPLE_SBS31_215_90
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SAMPLE_SBS31_215_91
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SAMPLE_SBS31_215_92
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SAMPLE_SBS31_215_93
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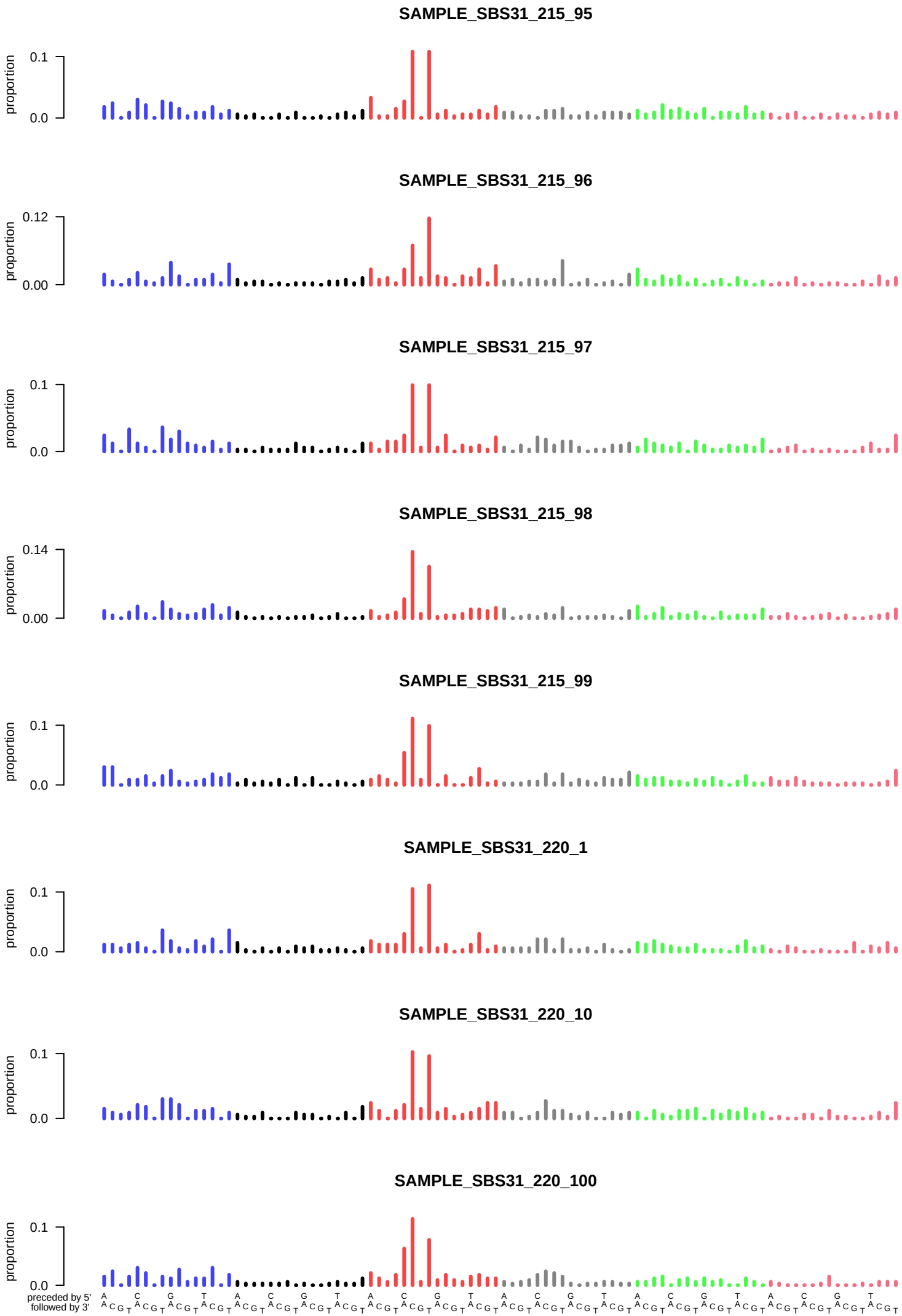
preceded by 5'
followed by 3'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proportion
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proportion
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proportion
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SAMPLE_SBS31_220_10
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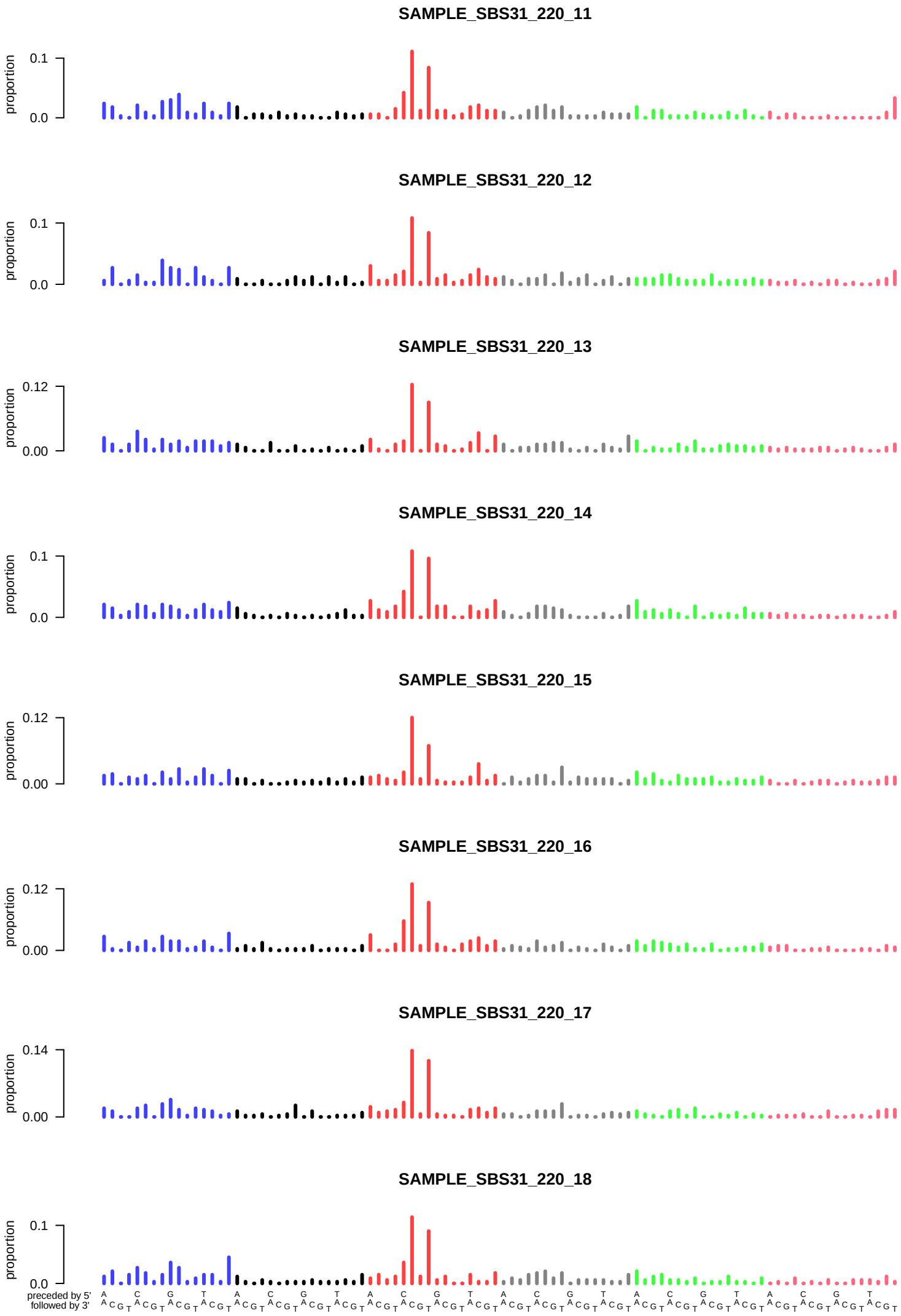
followed by 3'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SAMPLE_SBS31_220_14
proportion
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SAMPLE_SBS31_220_15
proportion
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SAMPLE_SBS31_220_16
proportion
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SAMPLE_SBS31_220_17
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SAMPLE_SBS31_220_18
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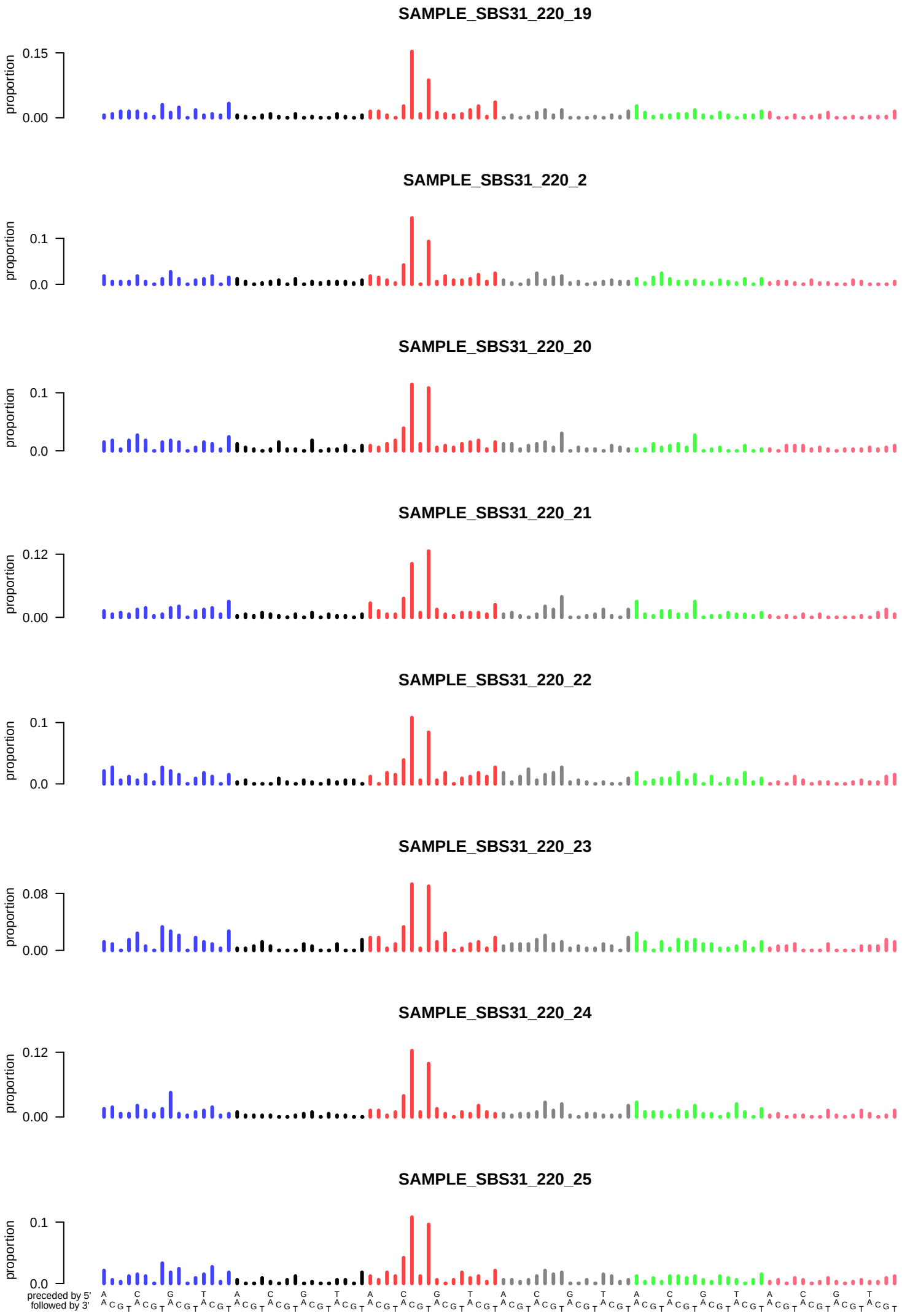
preceded by 5'
followed by 3'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SAMPLE_SBS31_220_20
proportion
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SAMPLE_SBS31_220_21
proportion
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SAMPLE_SBS31_220_22
proportion
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SAMPLE_SBS31_220_23
proportion
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SAMPLE_SBS31_220_24
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SAMPLE_SBS31_220_25
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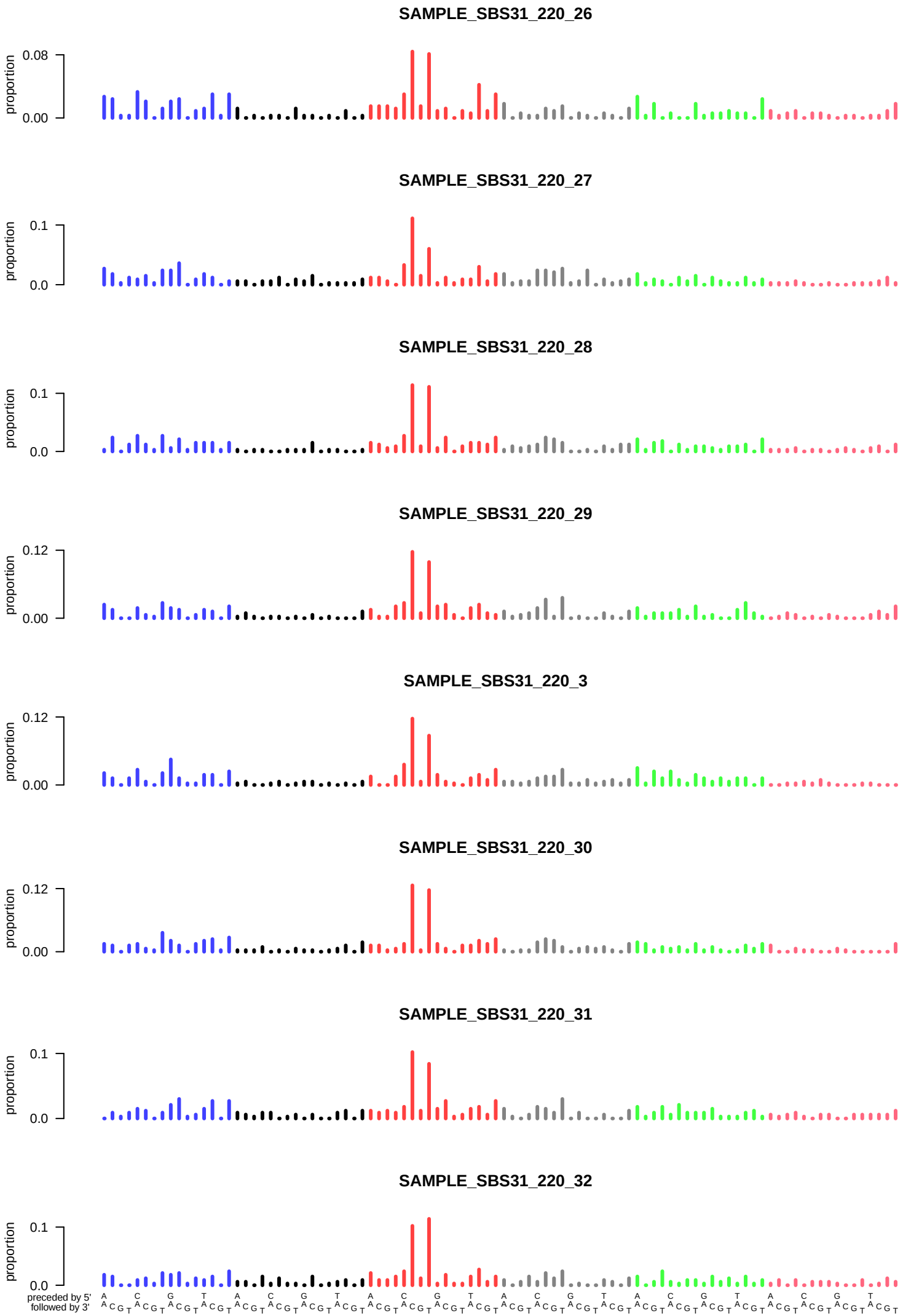
preceded by 5'
followed by 3'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SAMPLE_SBS31_220_28
proportion
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SAMPLE_SBS31_220_29
proportion
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SAMPLE_SBS31_220_30
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SAMPLE_SBS31_220_31
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SAMPLE_SBS31_220_32
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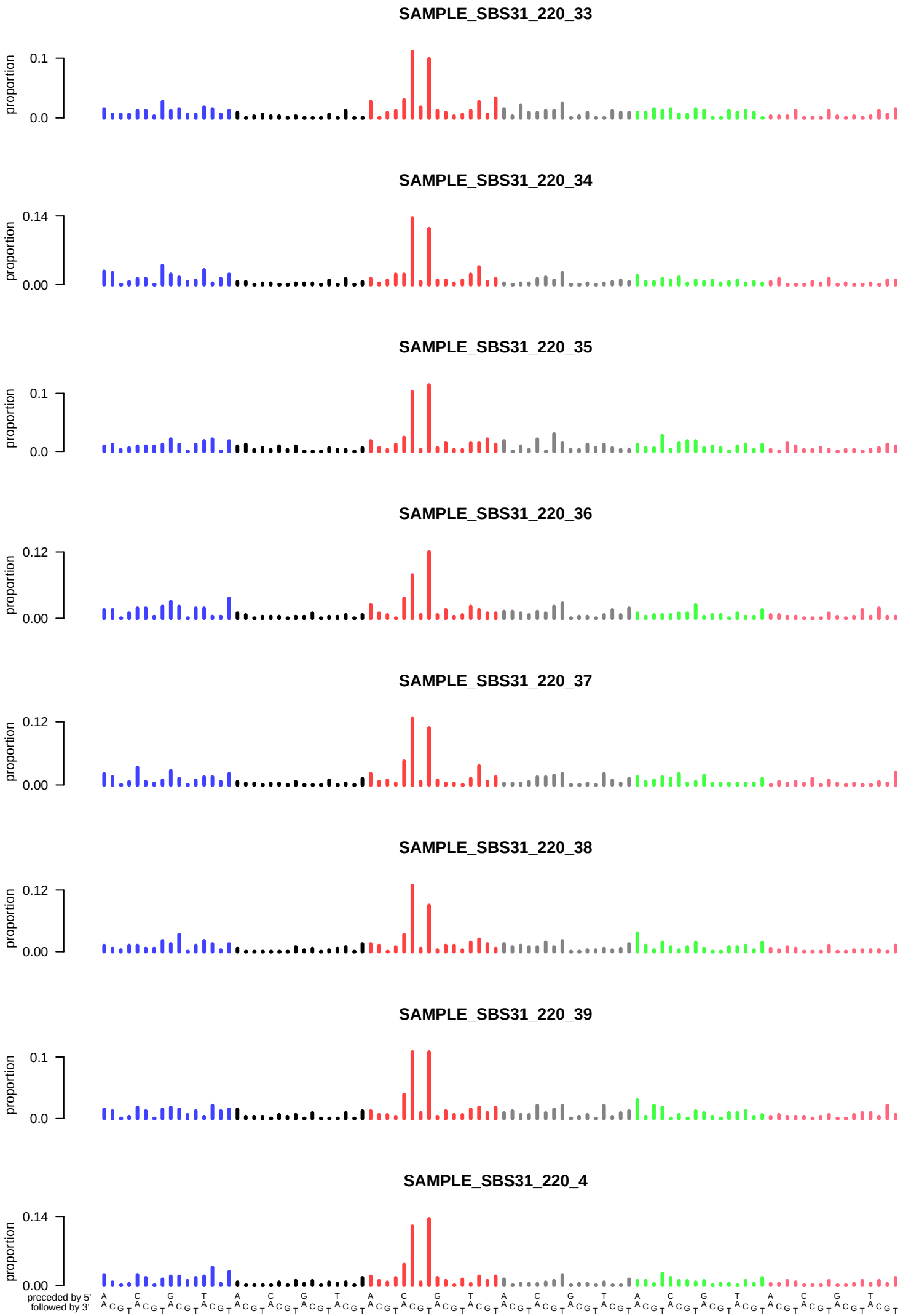
preceded by 5'
followed by 3'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SAMPLE_SBS31_220_38
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SAMPLE_SBS31_220_39
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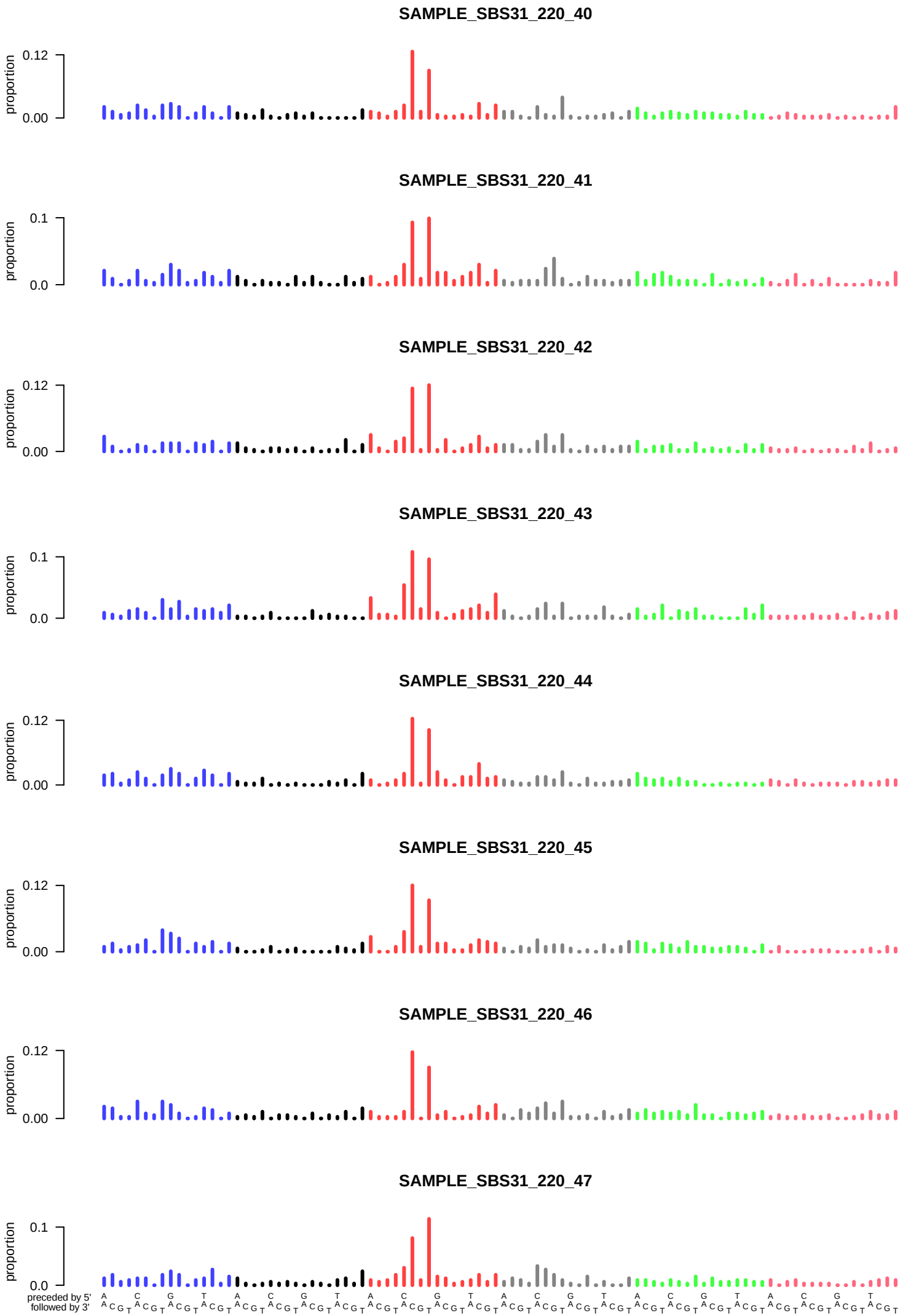
followed by 3'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SAMPLE_SBS31_220_44
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SAMPLE_SBS31_220_45
proportion
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SAMPLE_SBS31_220_46
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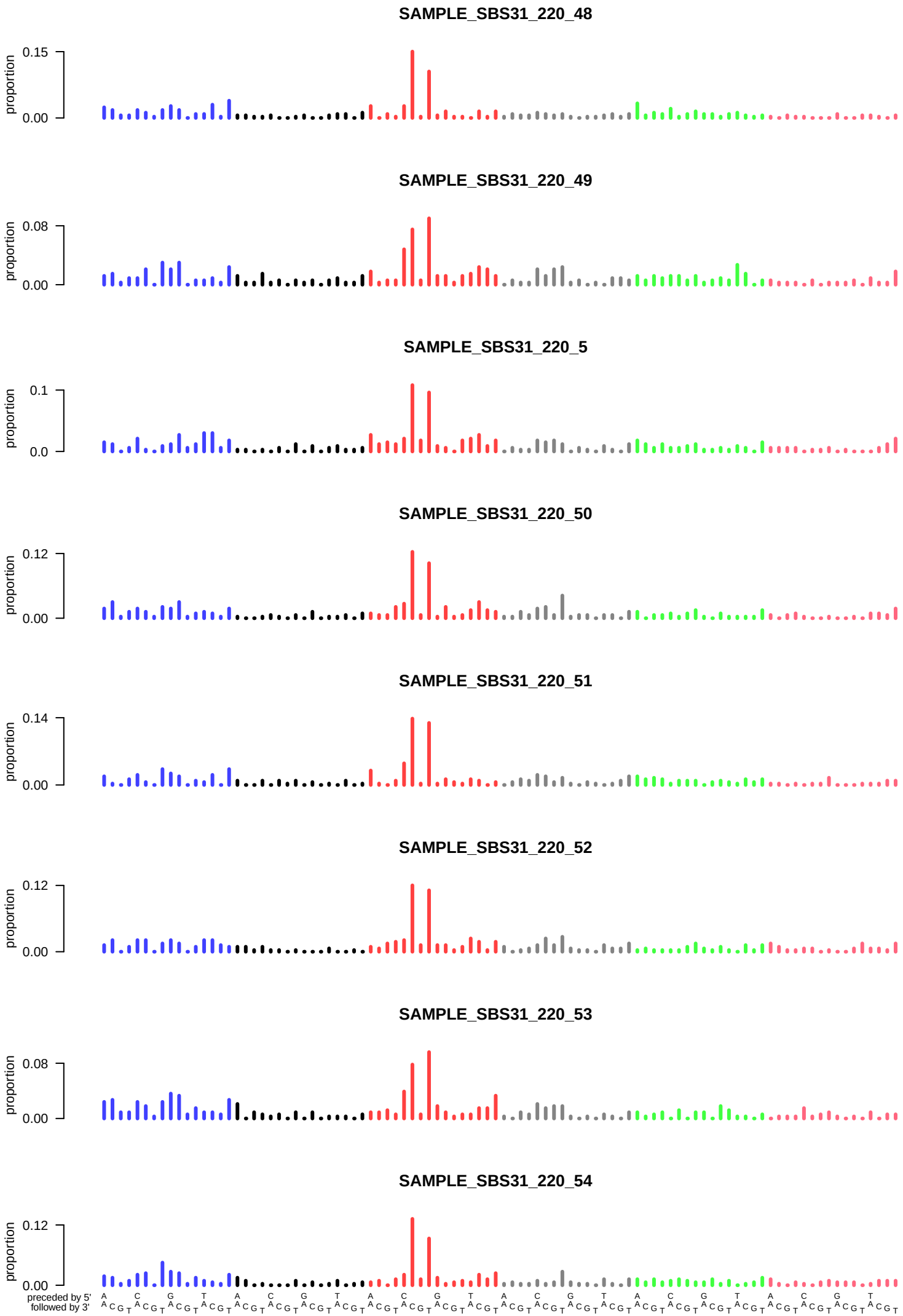
preceded by 5'
followed by 3'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SAMPLE_SBS31_220_52
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SAMPLE_SBS31_220_53
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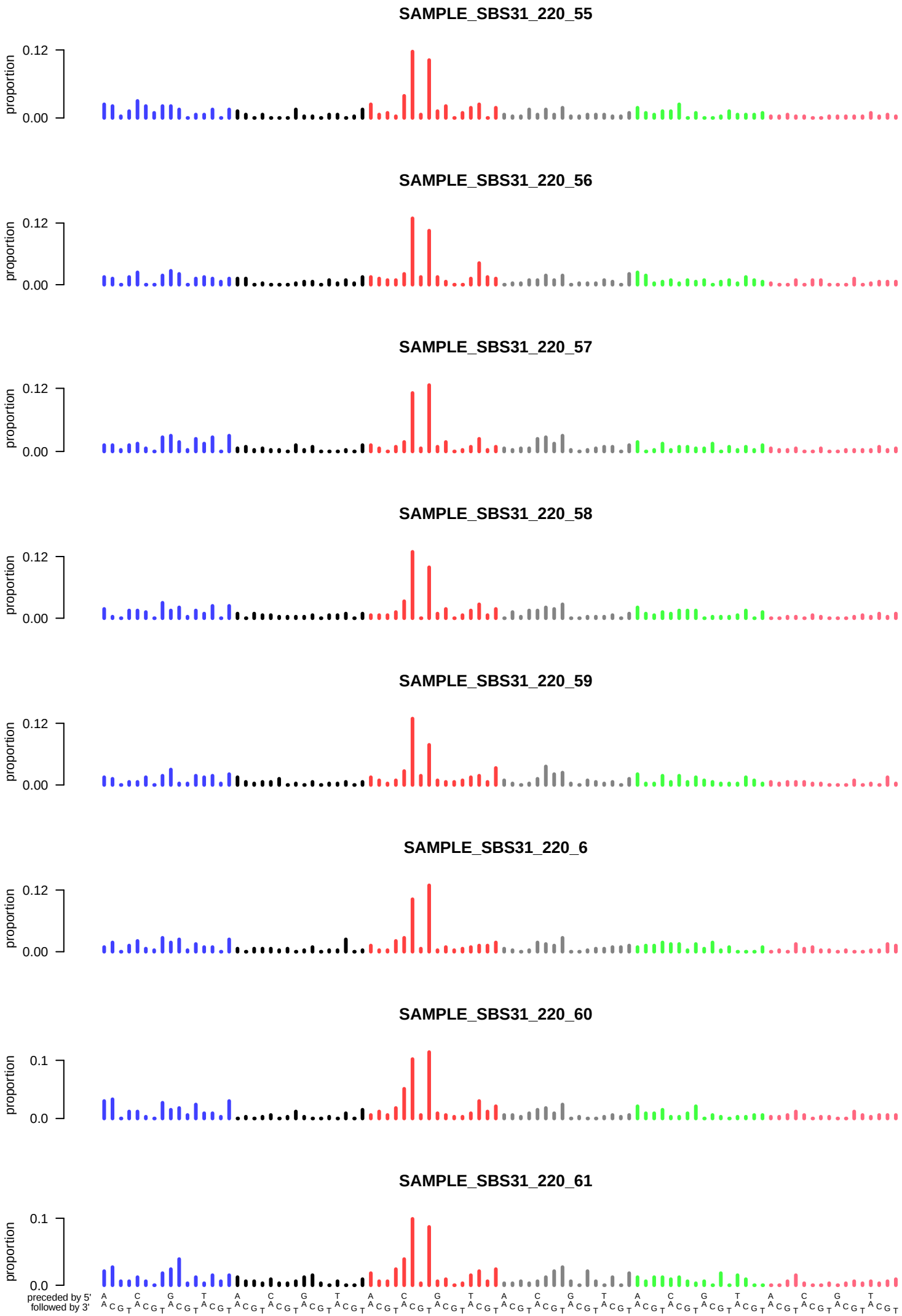
followed by 3'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SAMPLE_SBS31_220_58
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SAMPLE_SBS31_220_6
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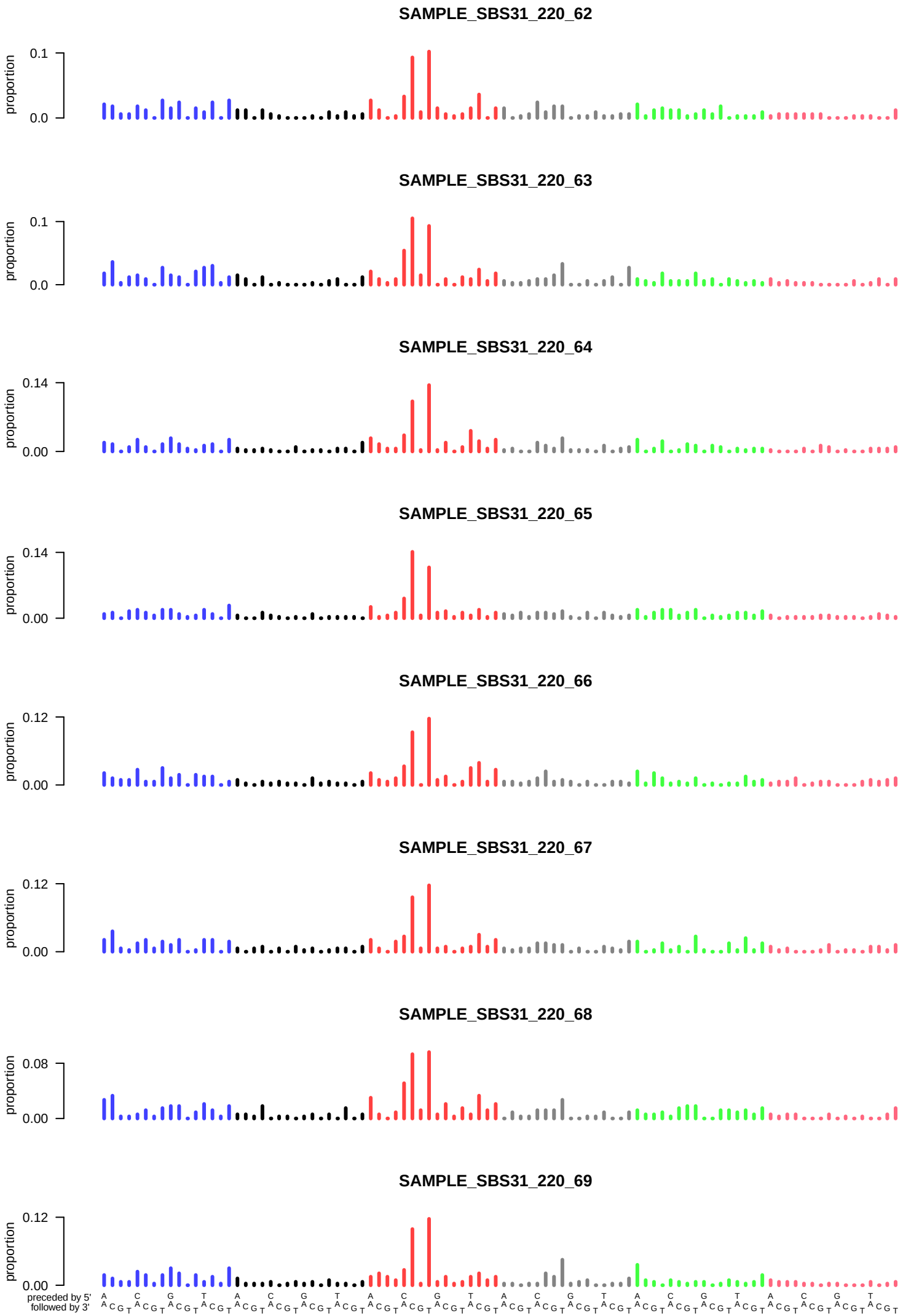
followed by 3'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SAMPLE_SBS31_220_68
proportion
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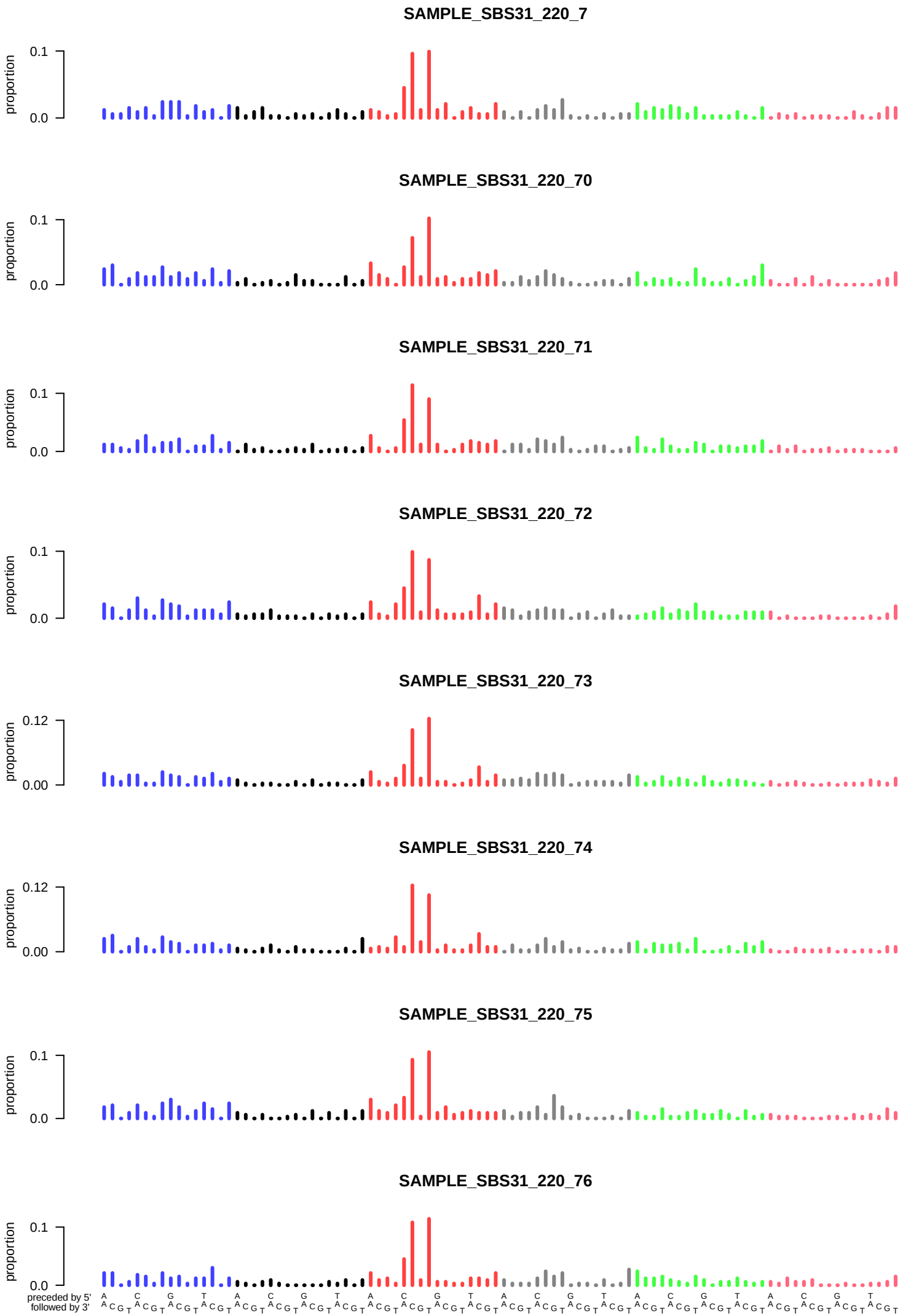
preceded by 5'
followed by 3'
A C G T A C G T A C G T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SAMPLE_SBS31_220_73
SAMPLE_SBS31_220_74
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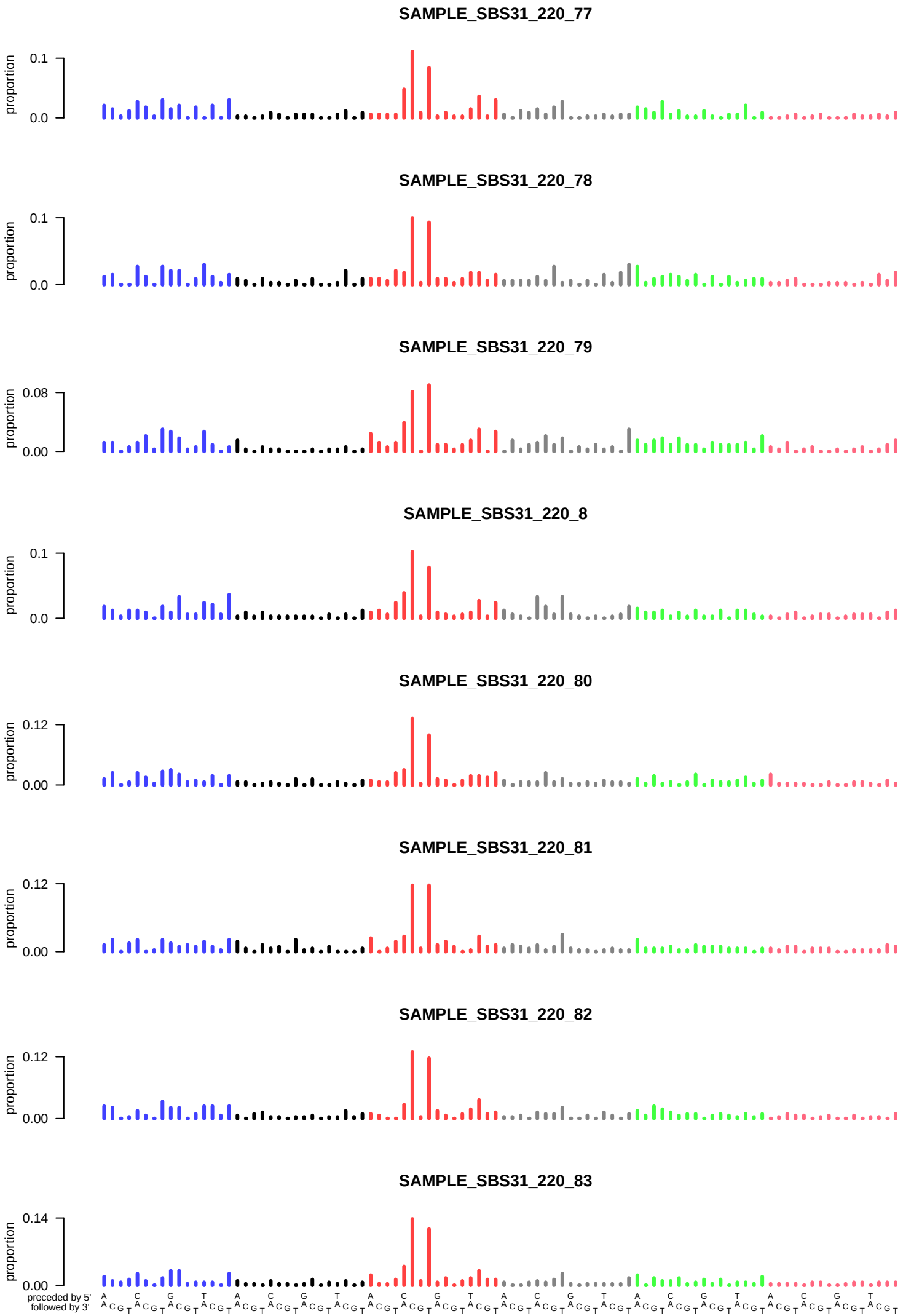
preceded by 5'
followed by 3'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SAMPLE_SBS31_220_82
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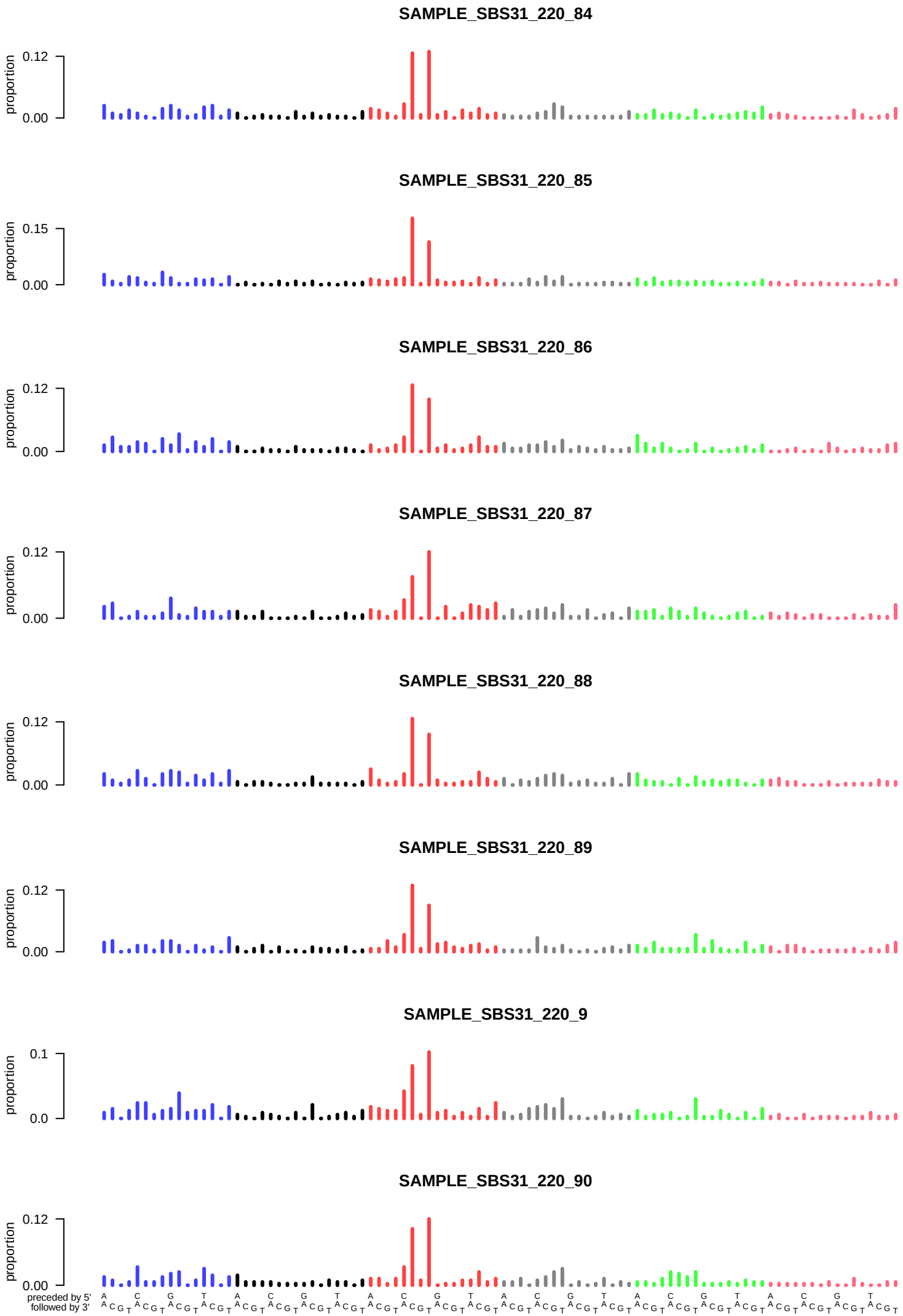
followed by 3'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SAMPLE_SBS31_220_89
proportion
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SAMPLE_SBS31_220_9
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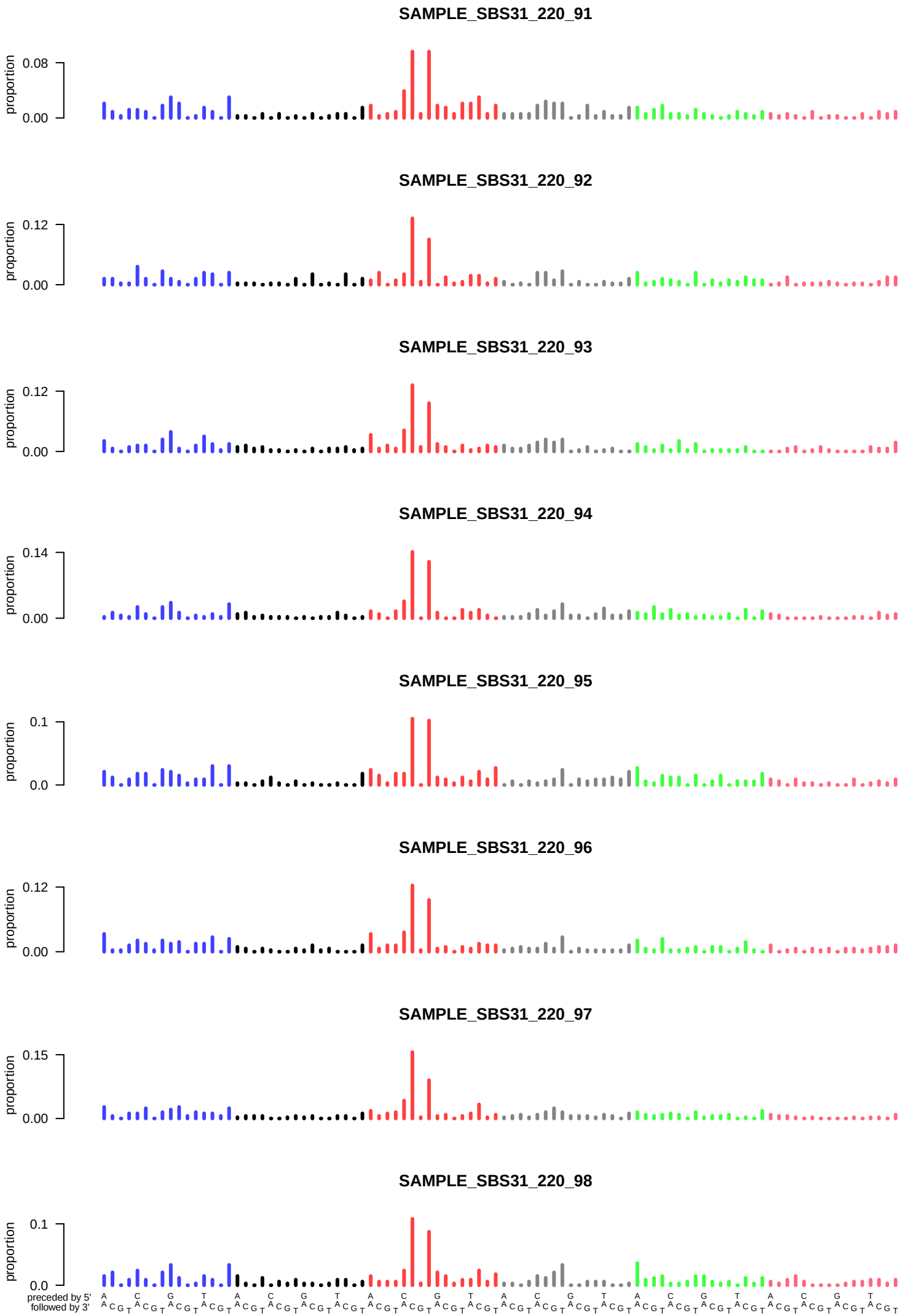
preceded by 5'
followed by 3'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SAMPLE_SBS31_220_97
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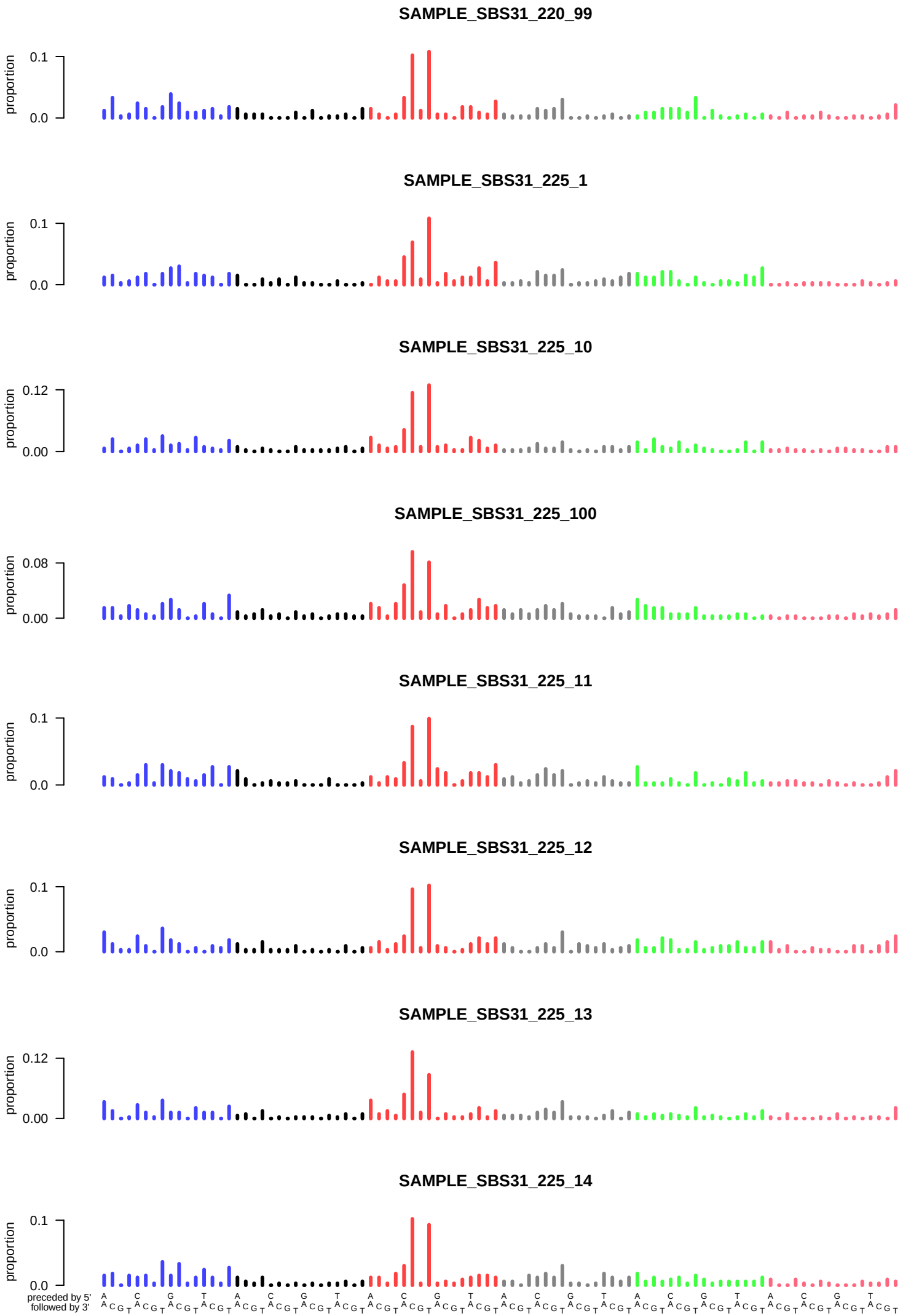
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SAMPLE_SBS31_225_13
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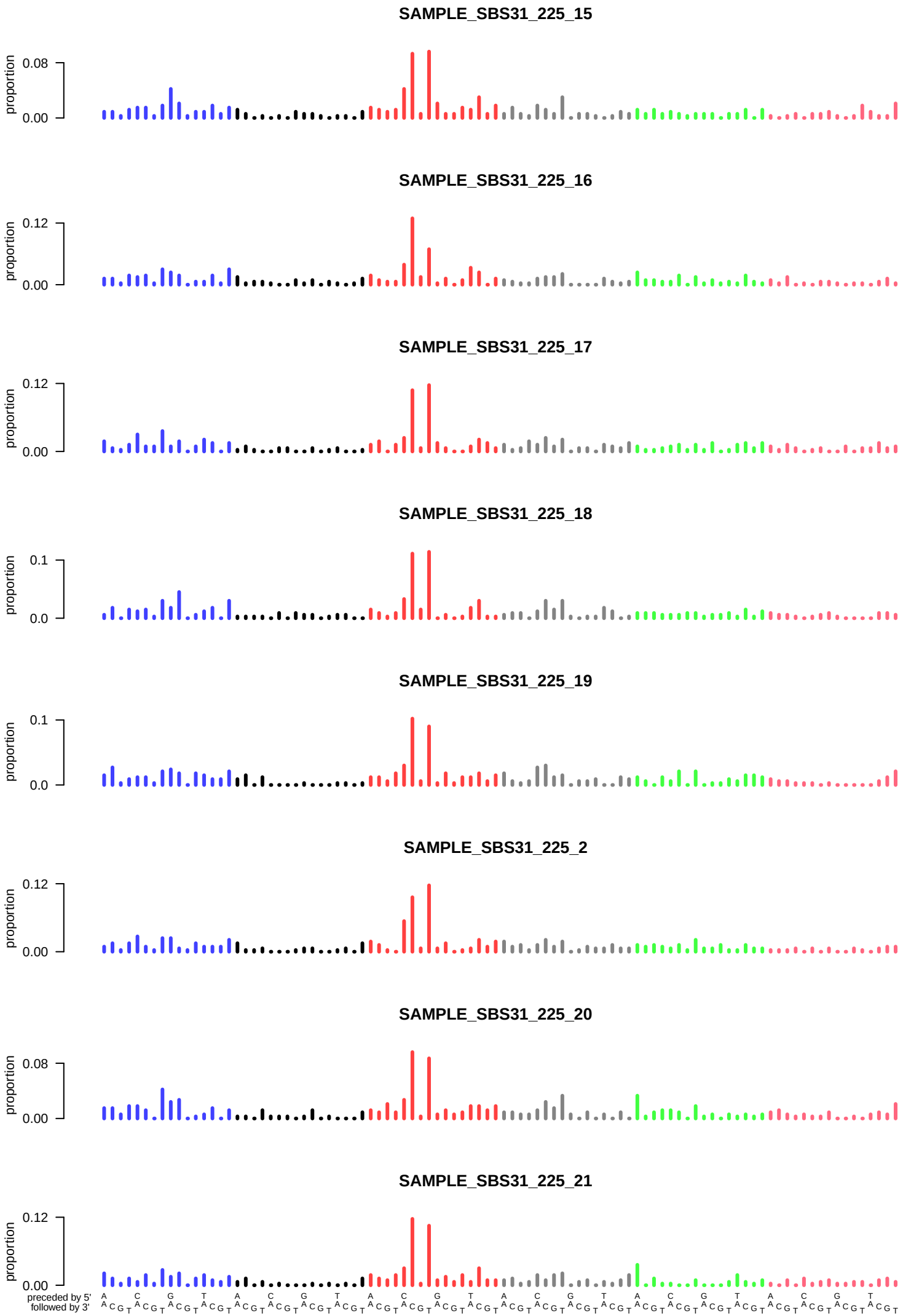
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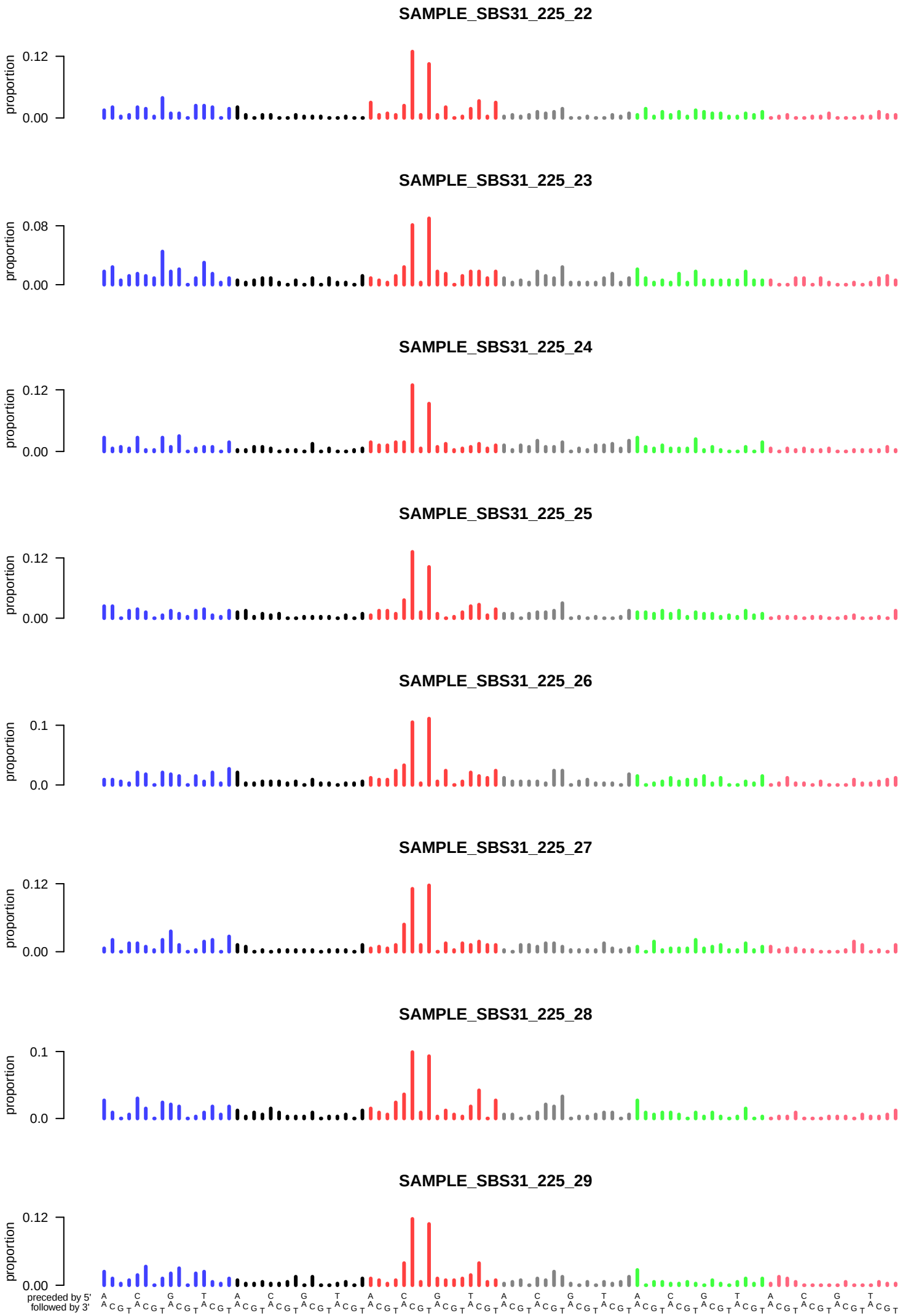
A C G T A C G T A C G T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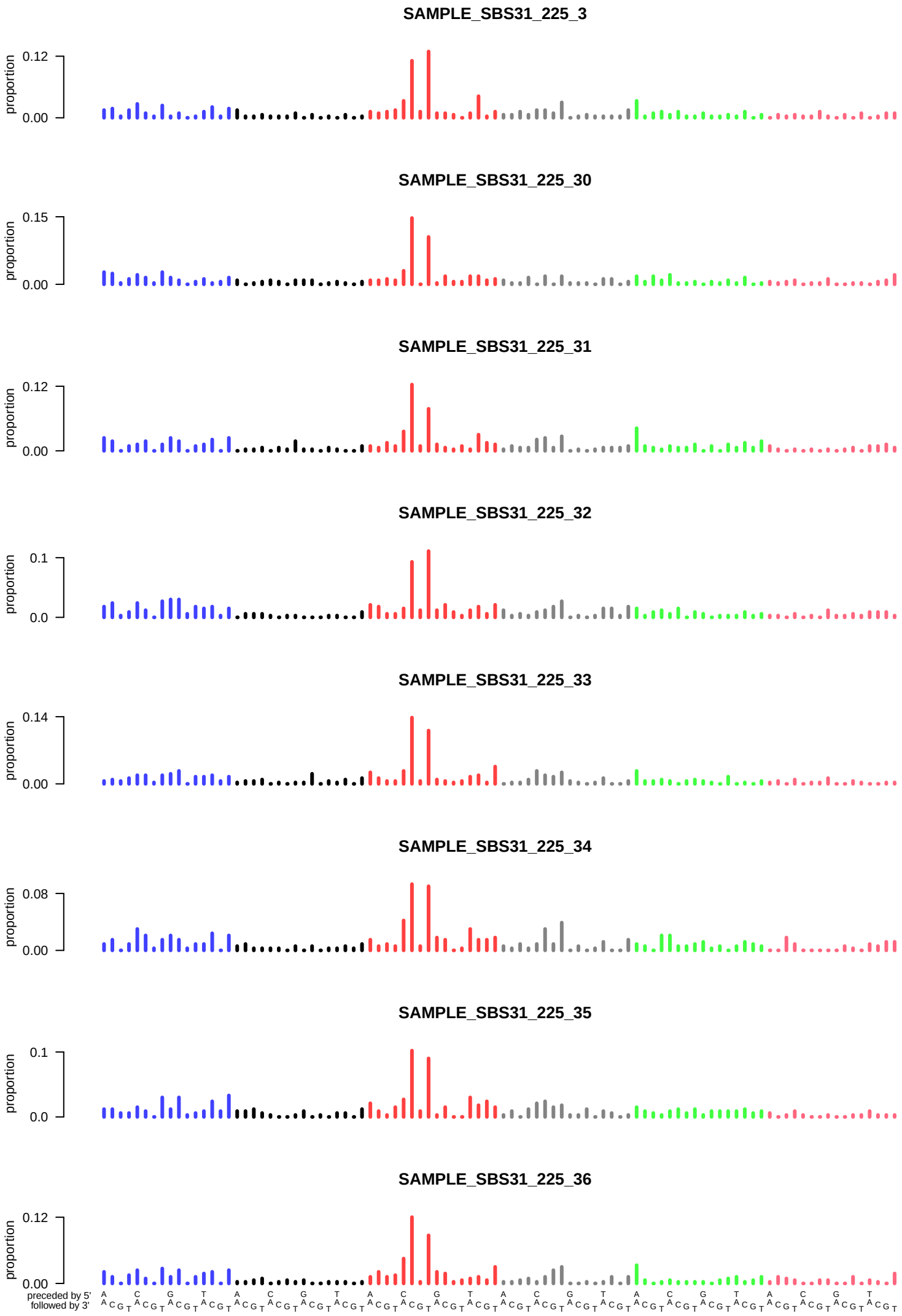
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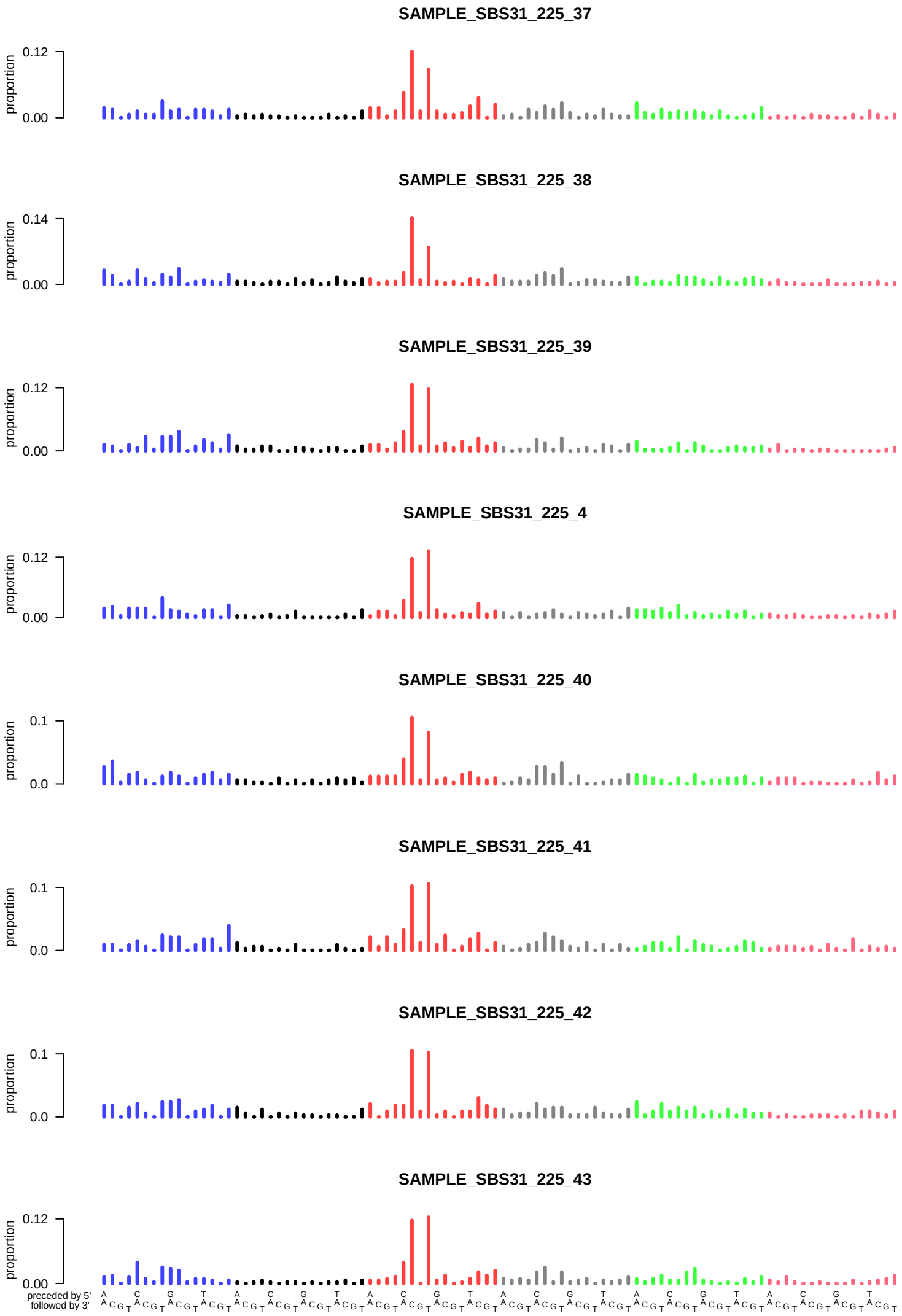
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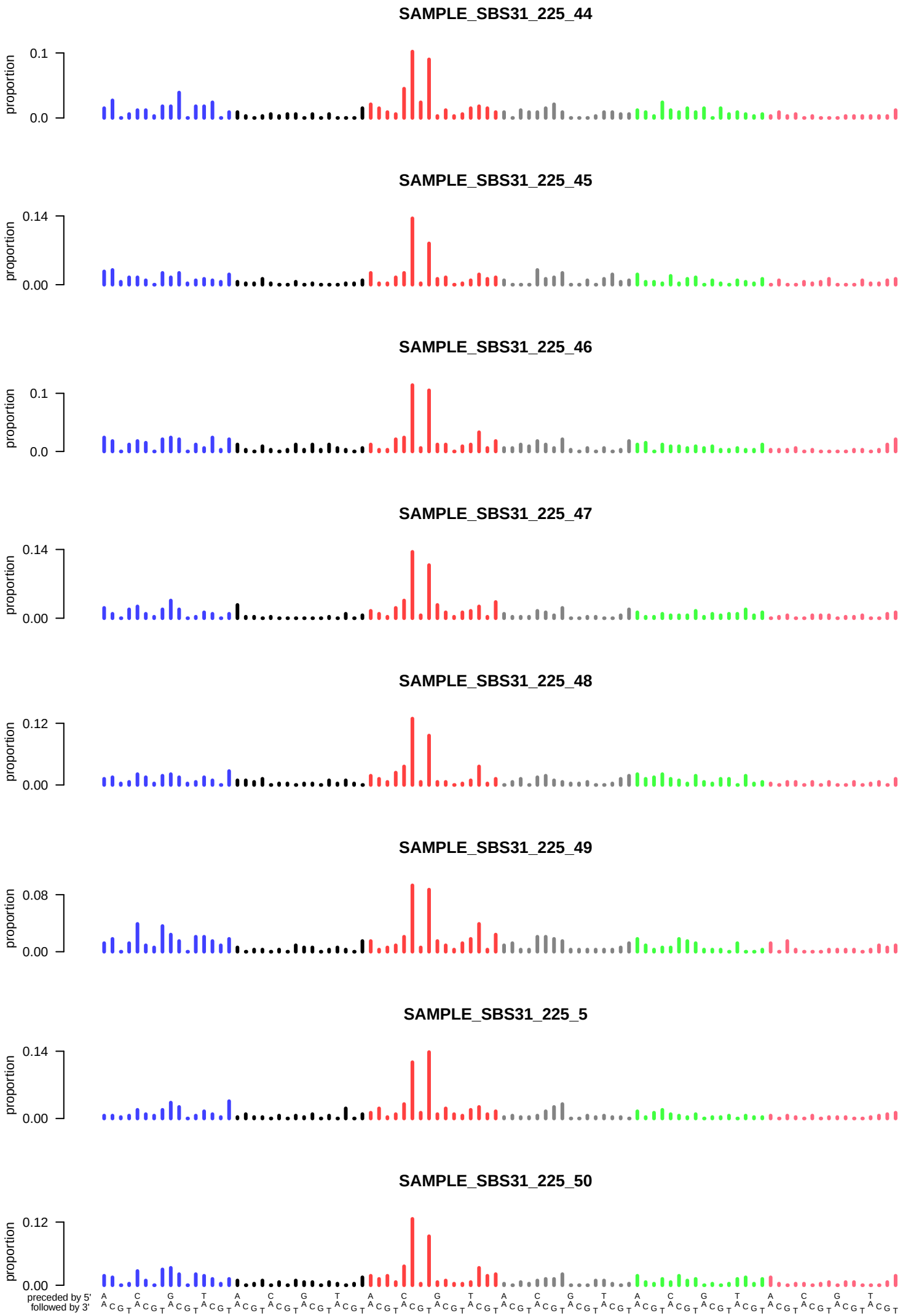
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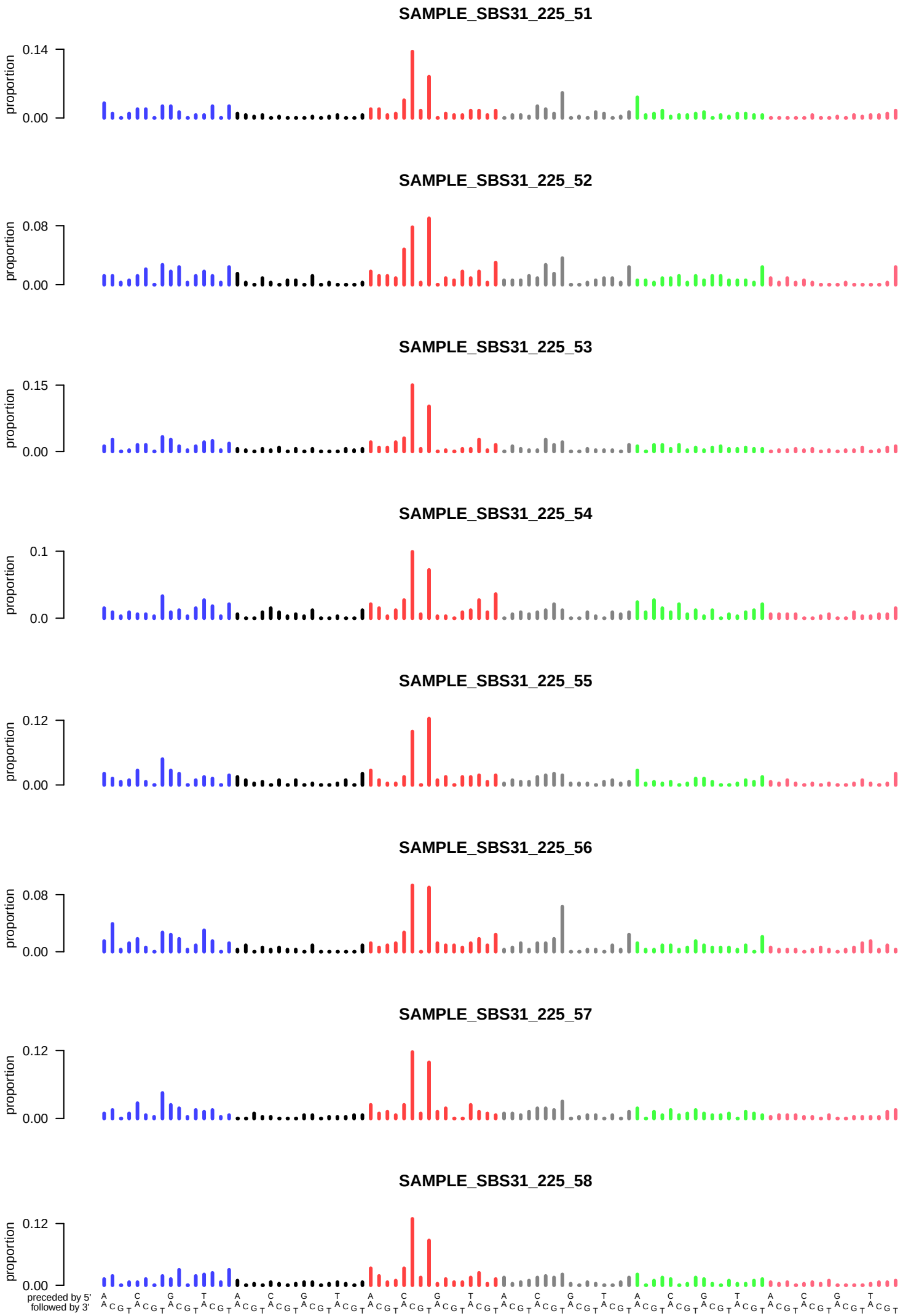
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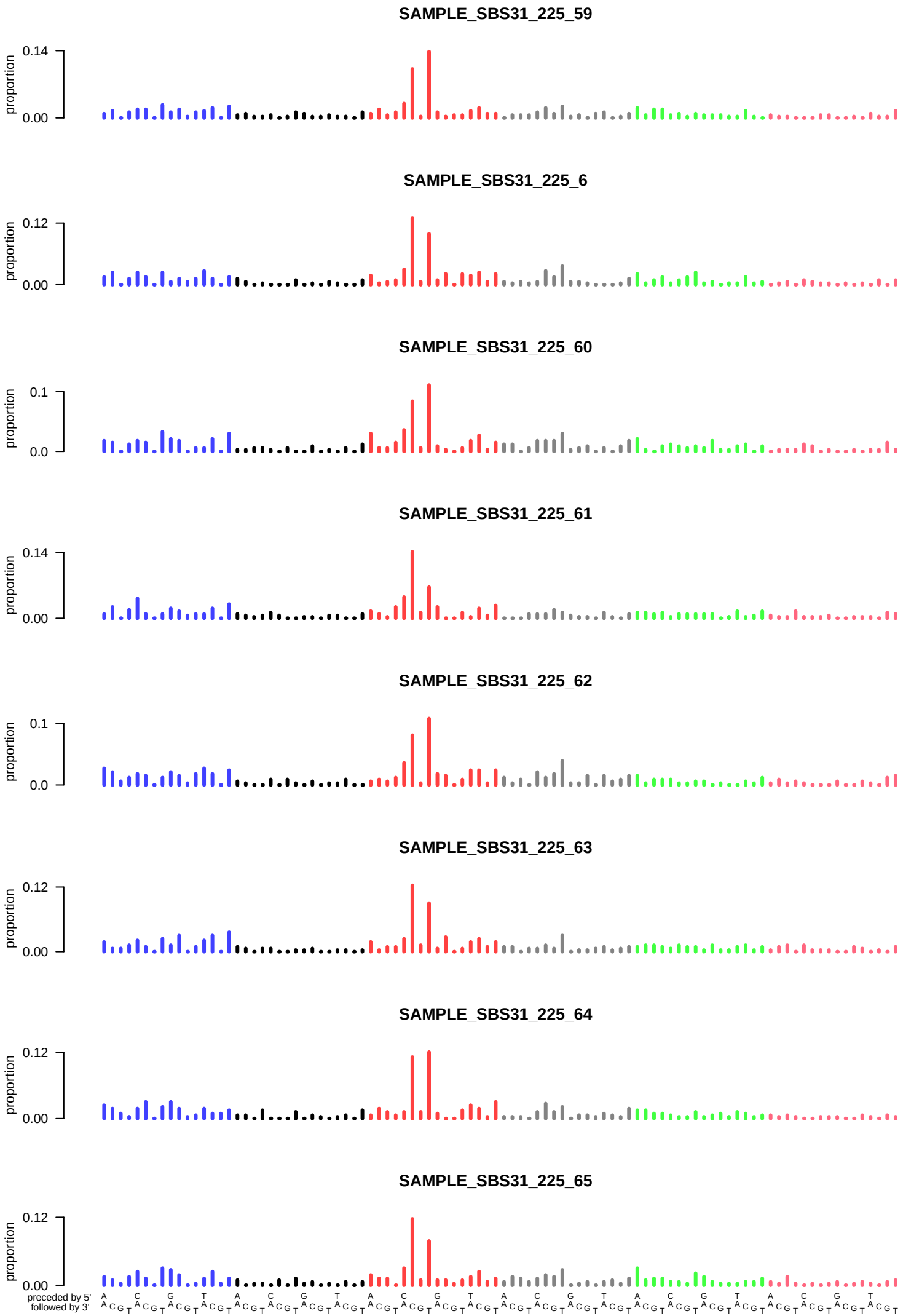
followed by 3'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SAMPLE_SBS31_225_64
proportion
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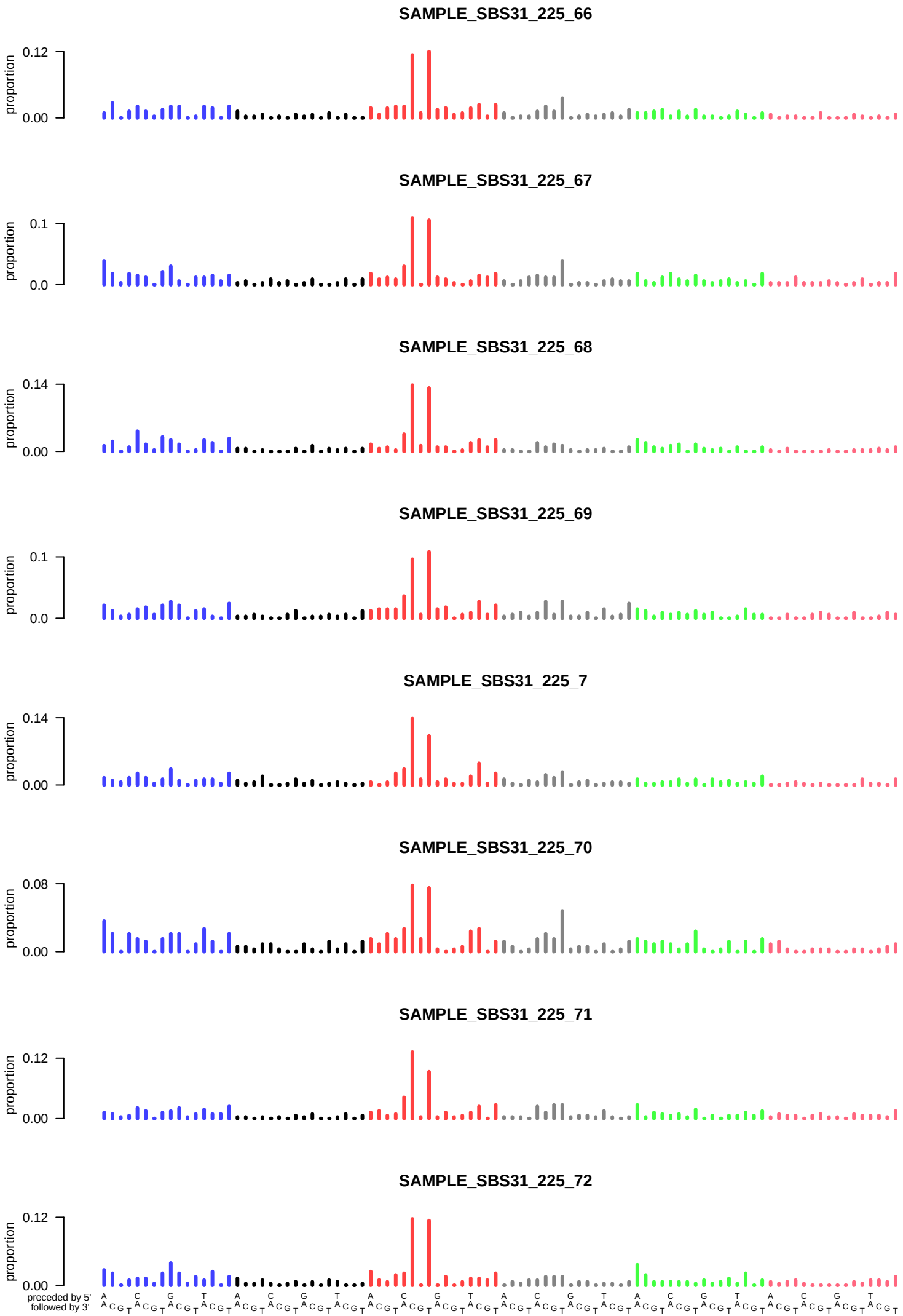
followed by 3'
A C G T A C G T A C G T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proportion
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0.00
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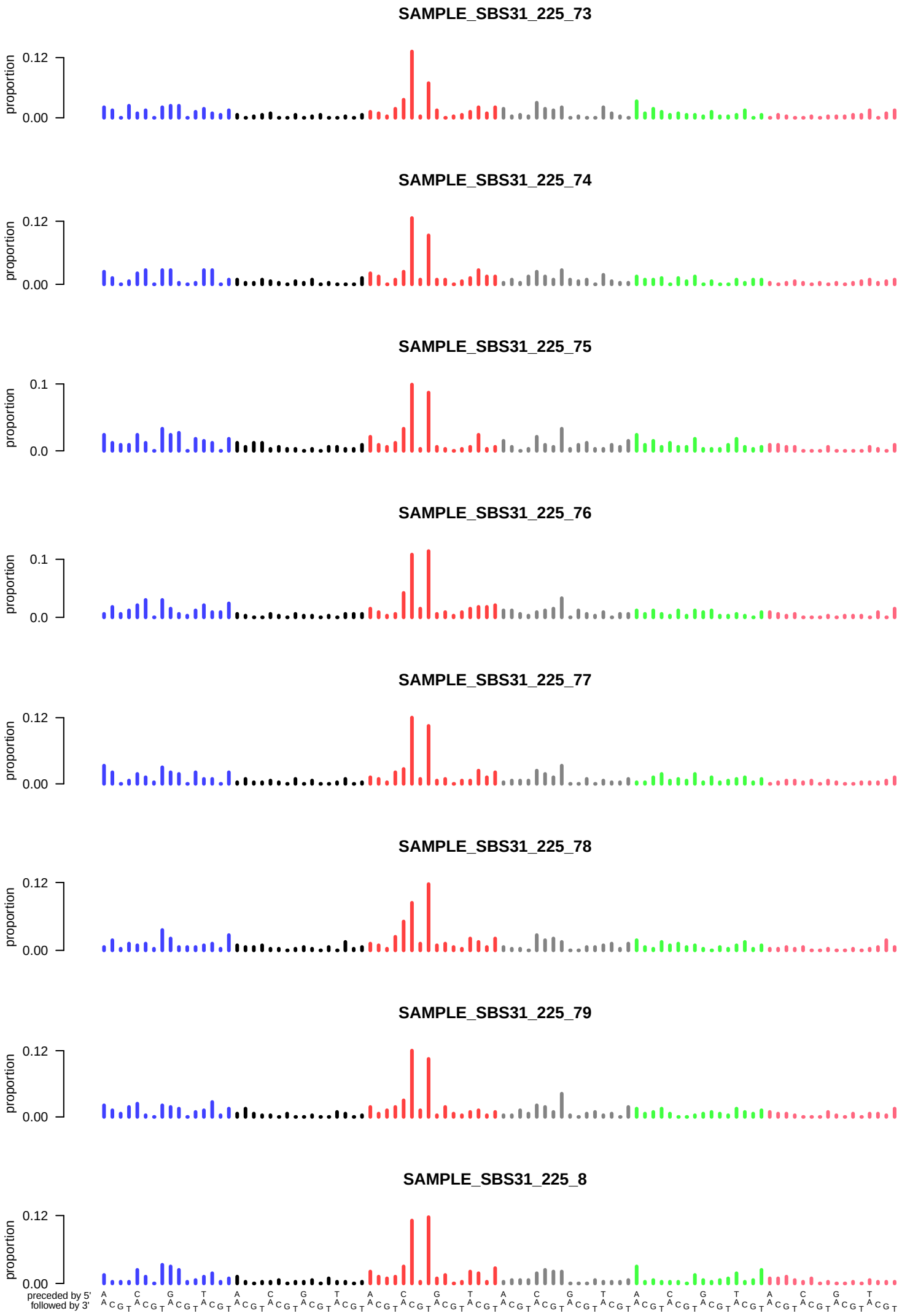
followed by 3'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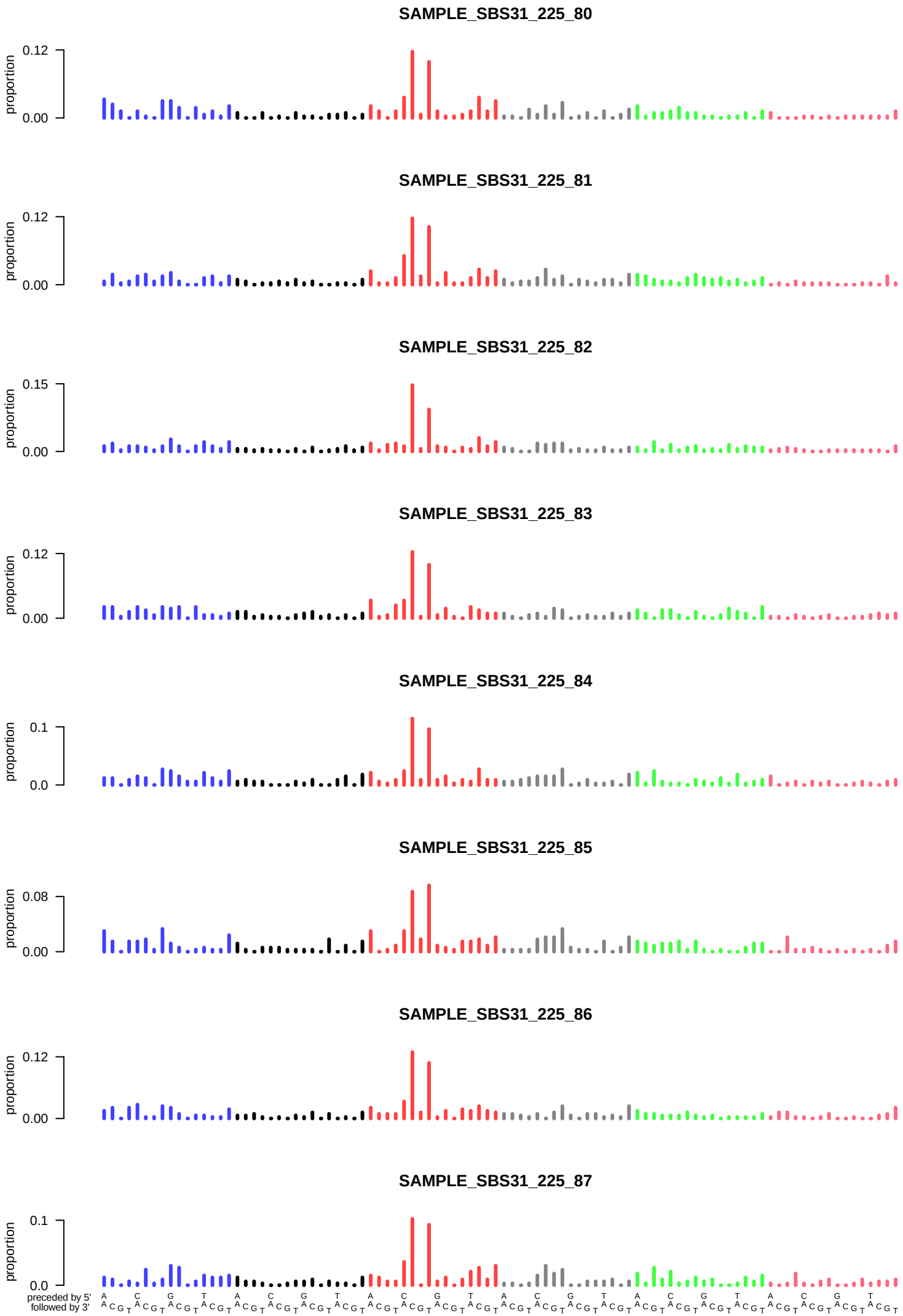
followed by 3'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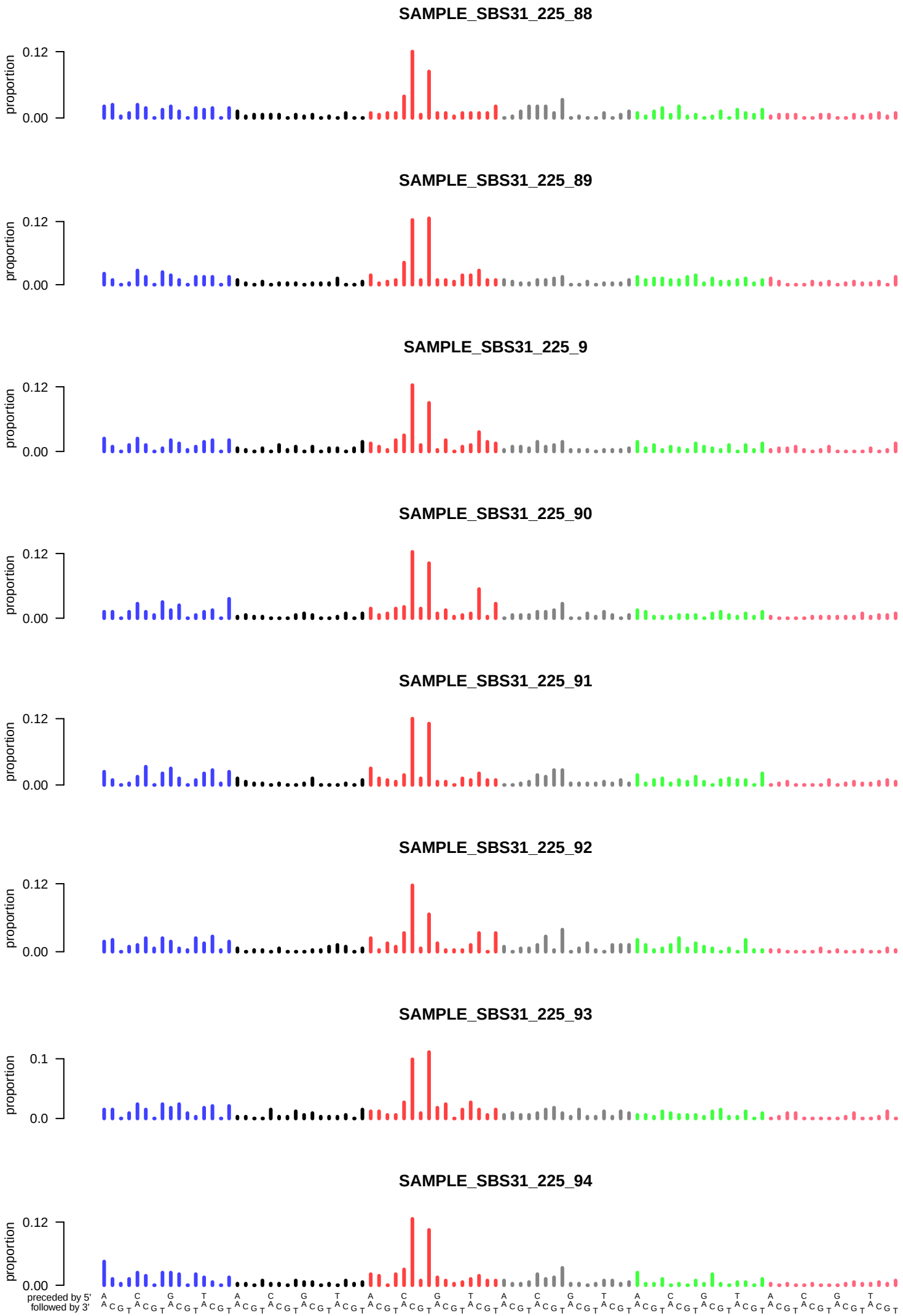
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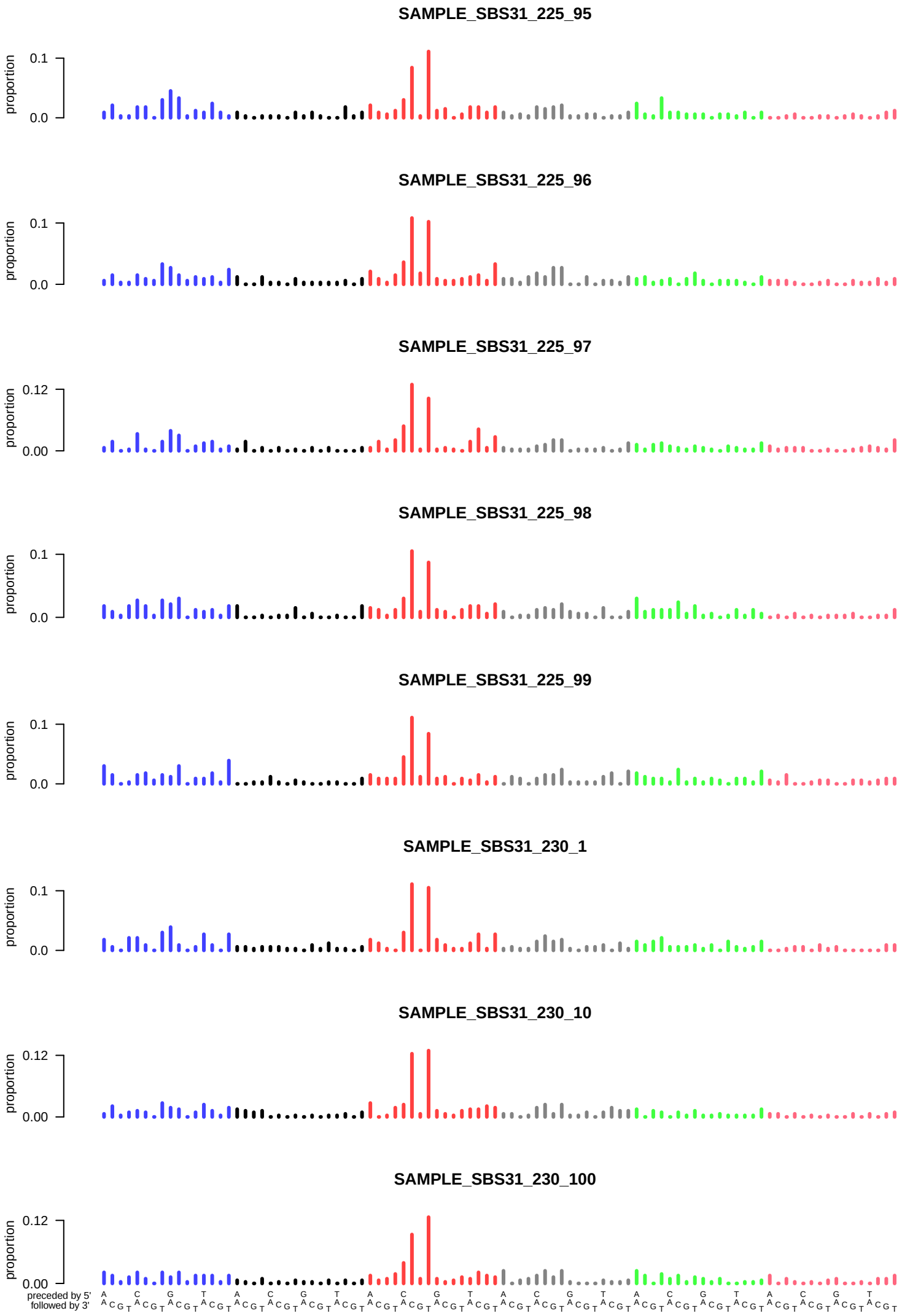
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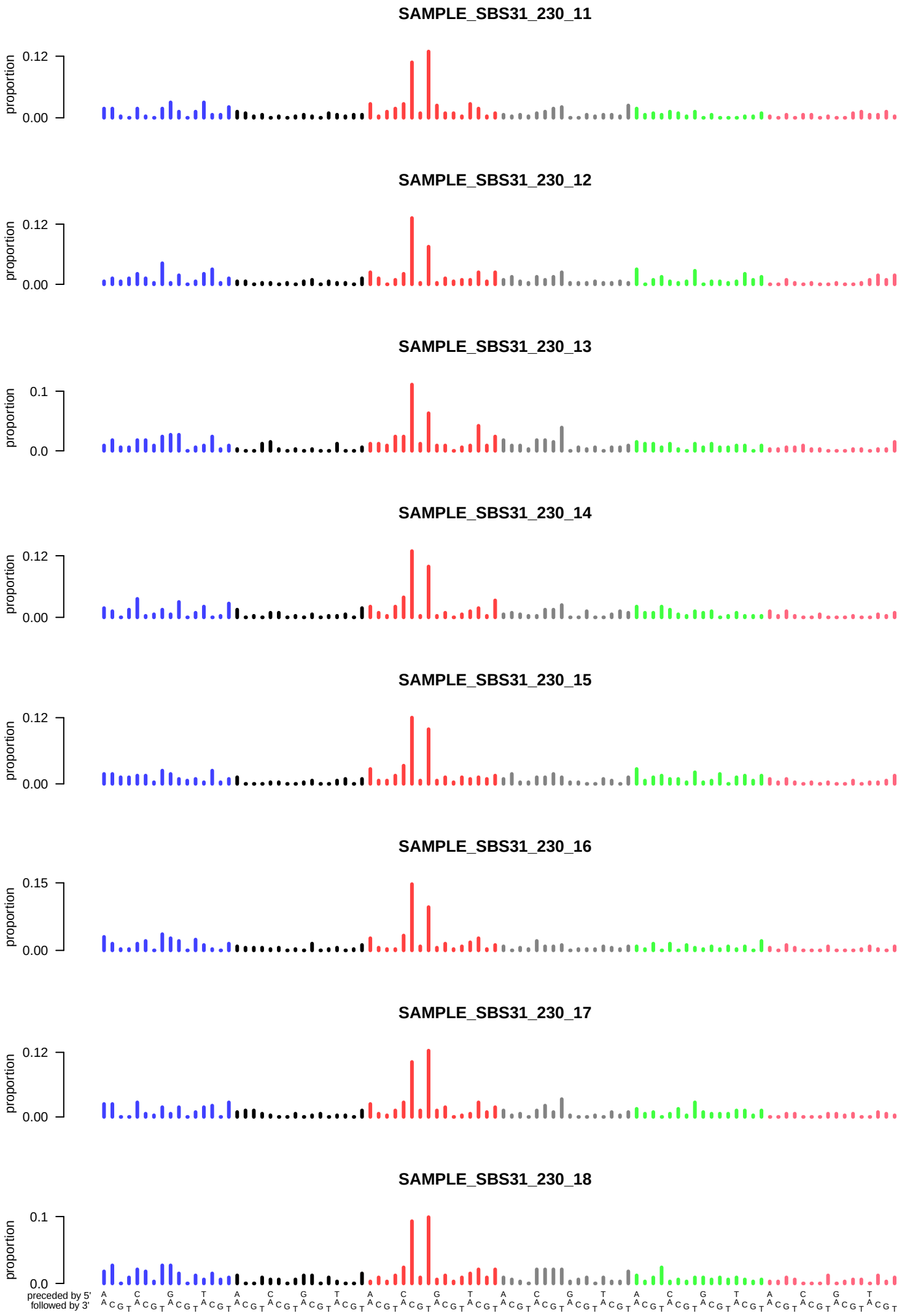
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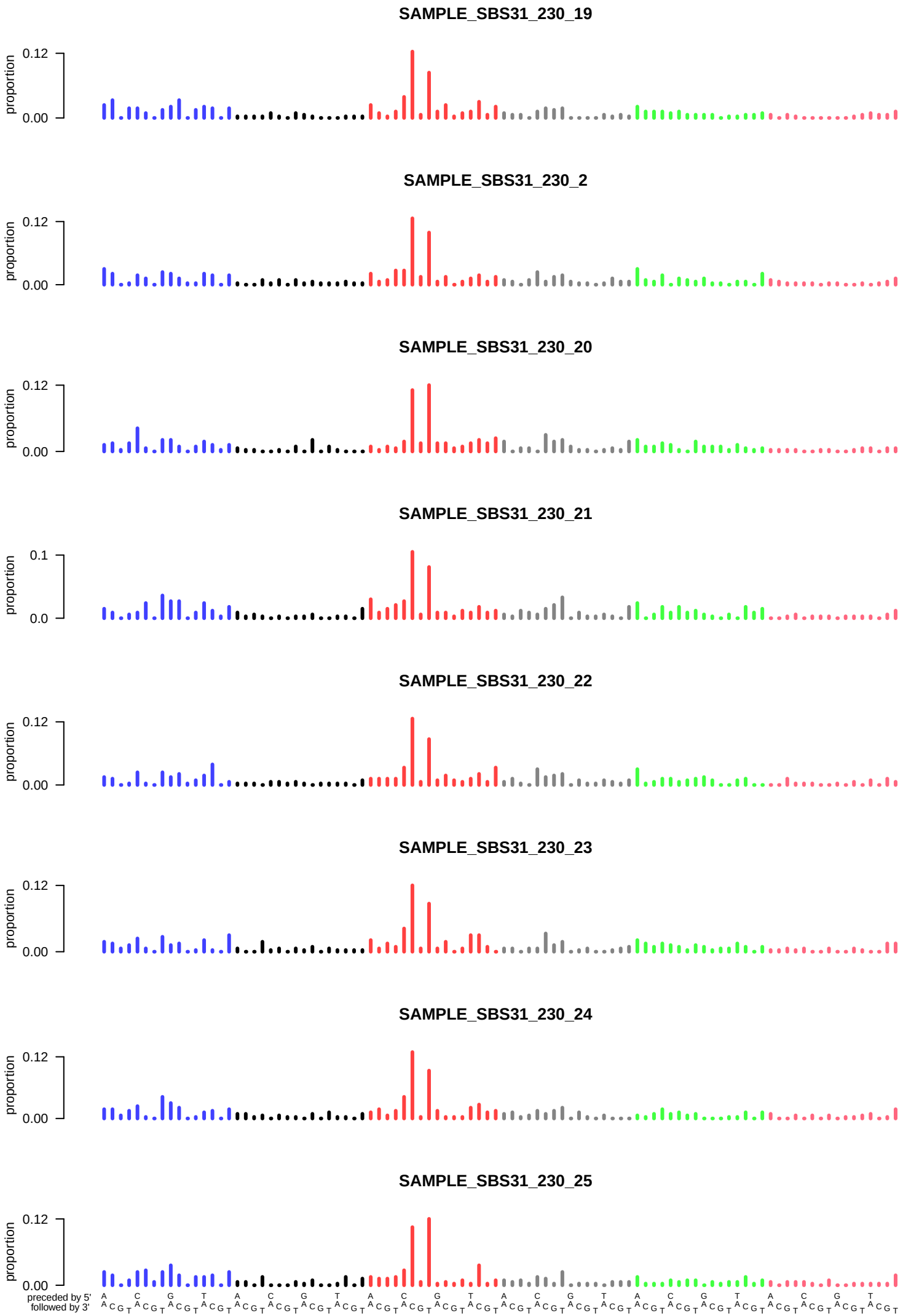
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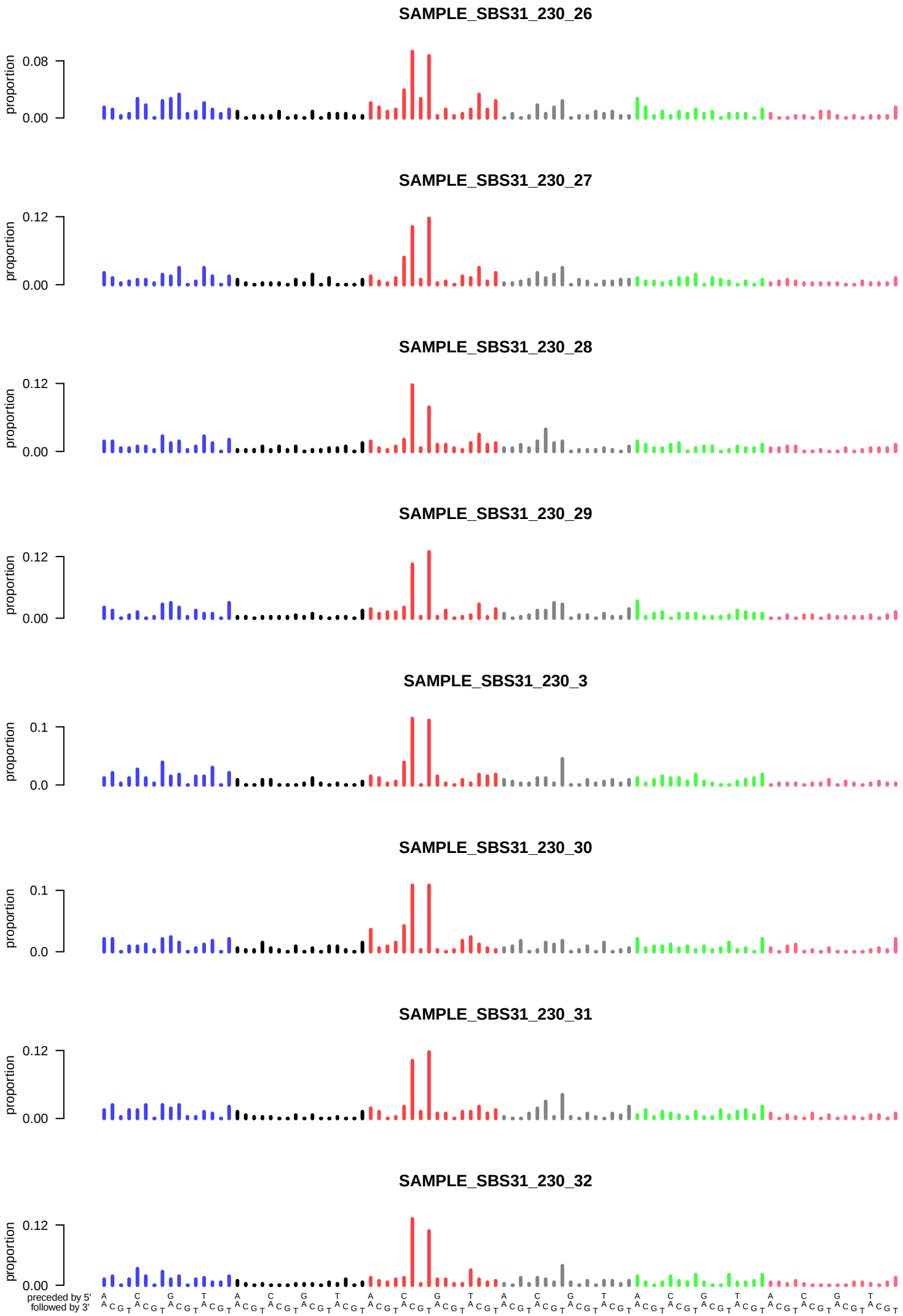
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SAMPLE_SBS31_230_29
proportion
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SAMPLE_SBS31_230_3
proportion
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SAMPLE_SBS31_230_30
proportion
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SAMPLE_SBS31_230_31
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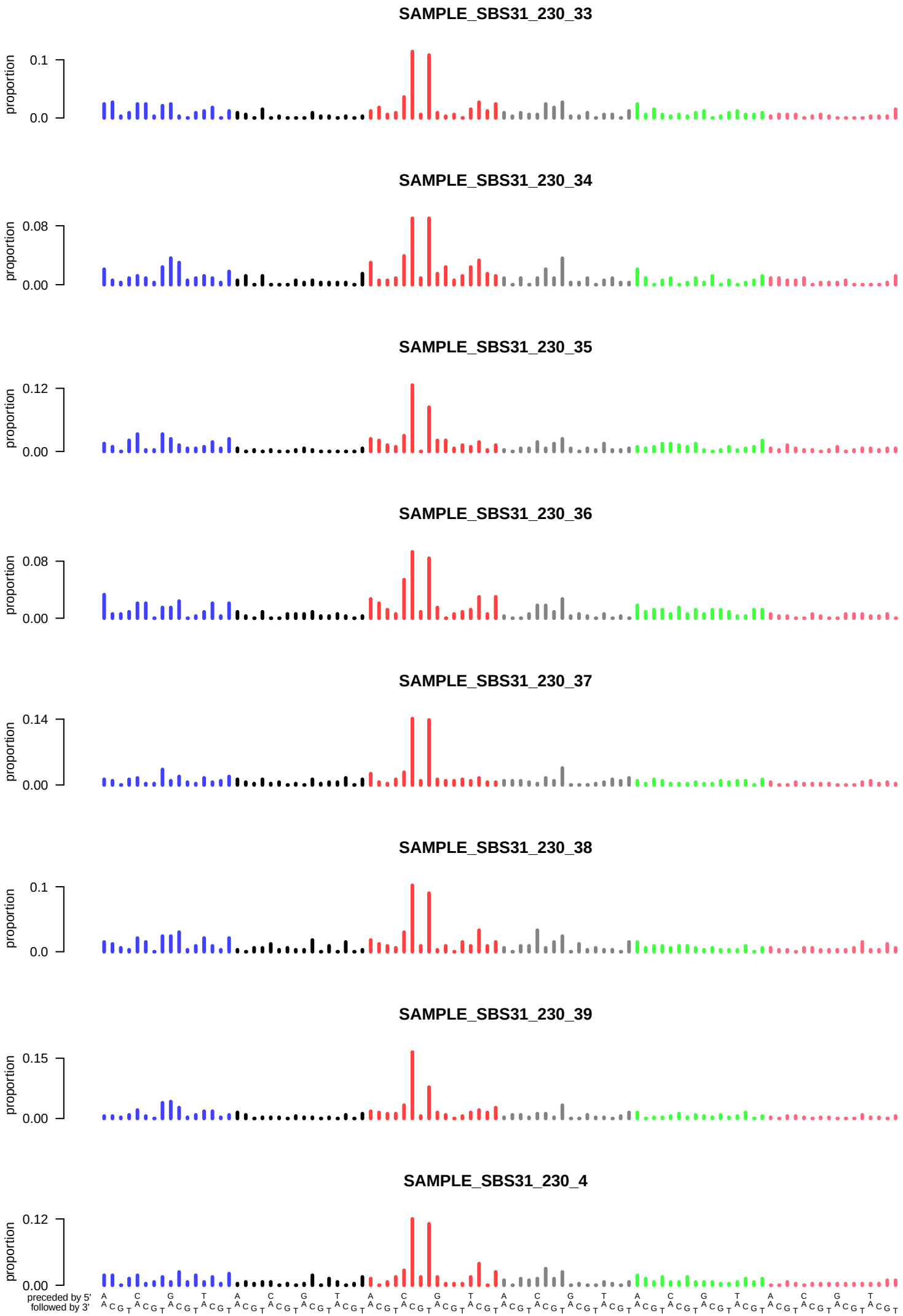
followed by 3'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SAMPLE_SBS31_230_39
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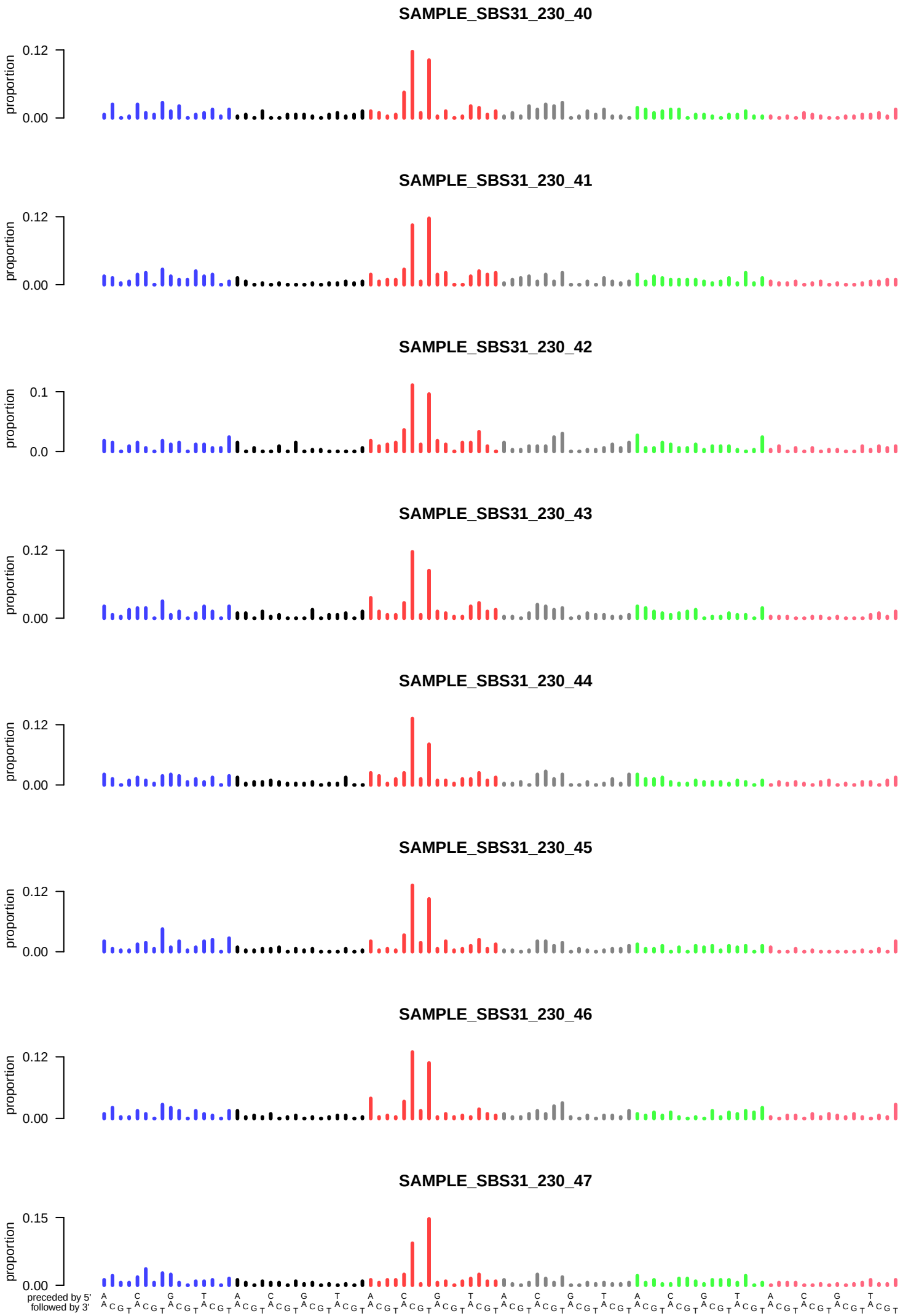
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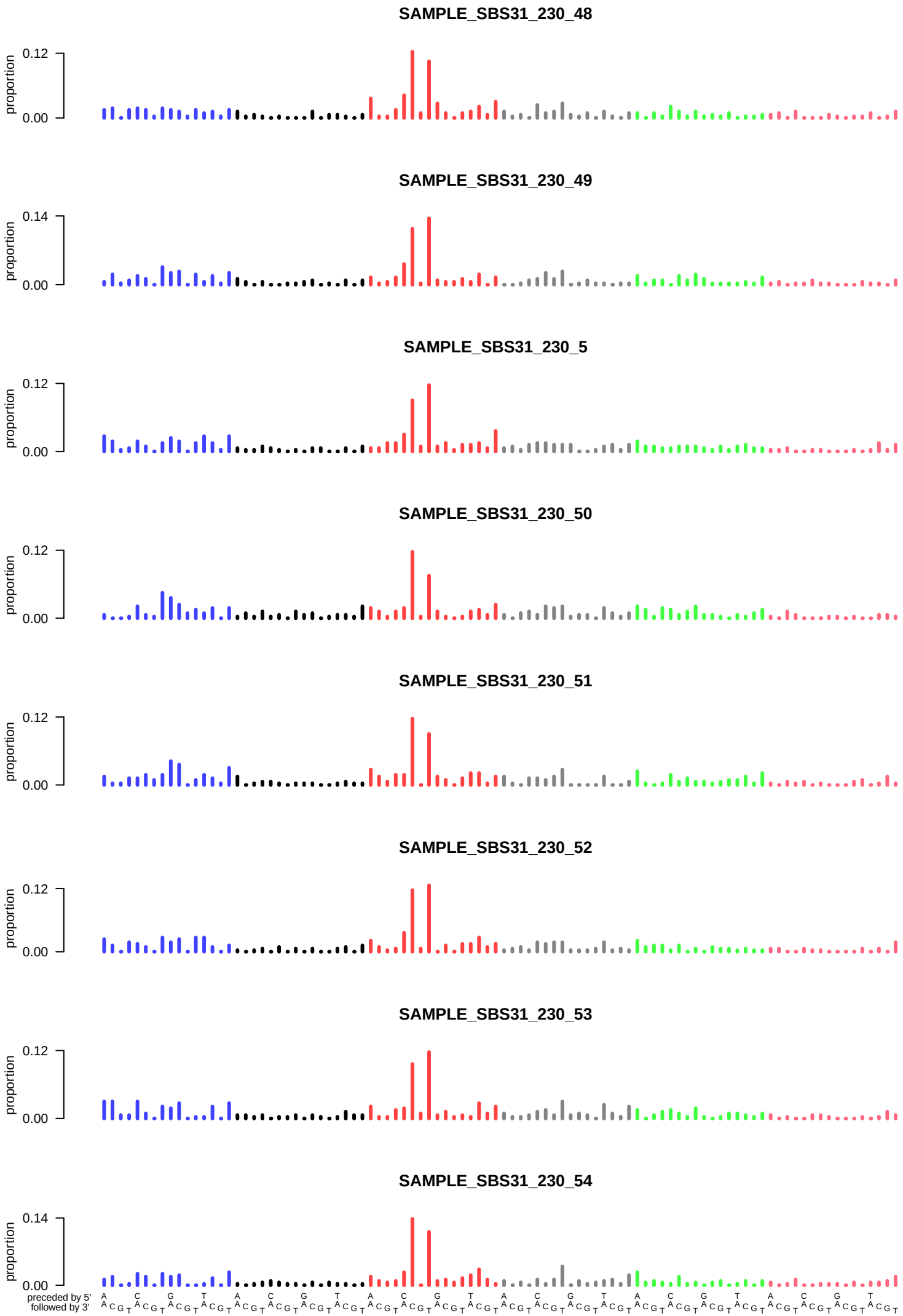
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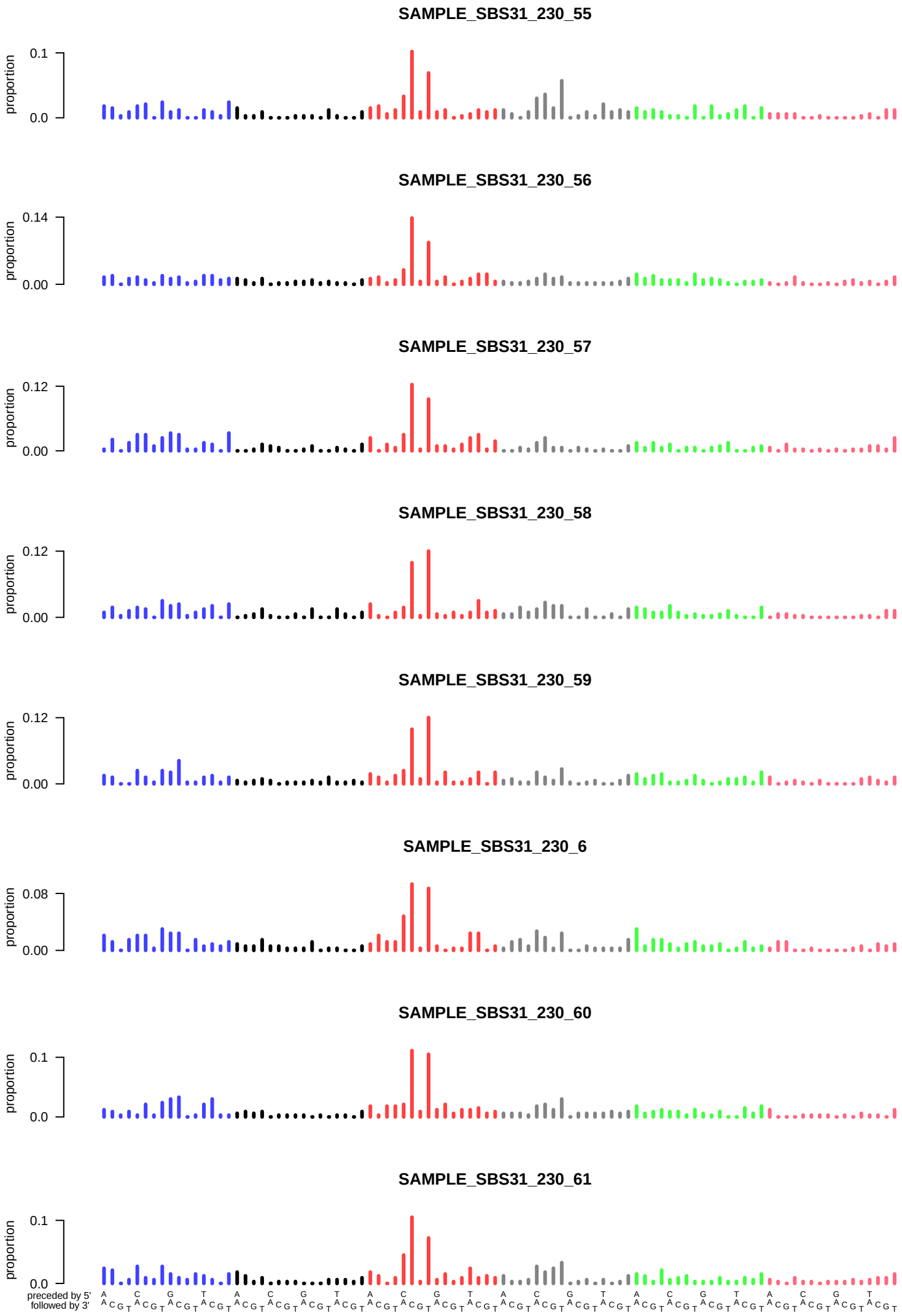
A C G T A C G T A C G T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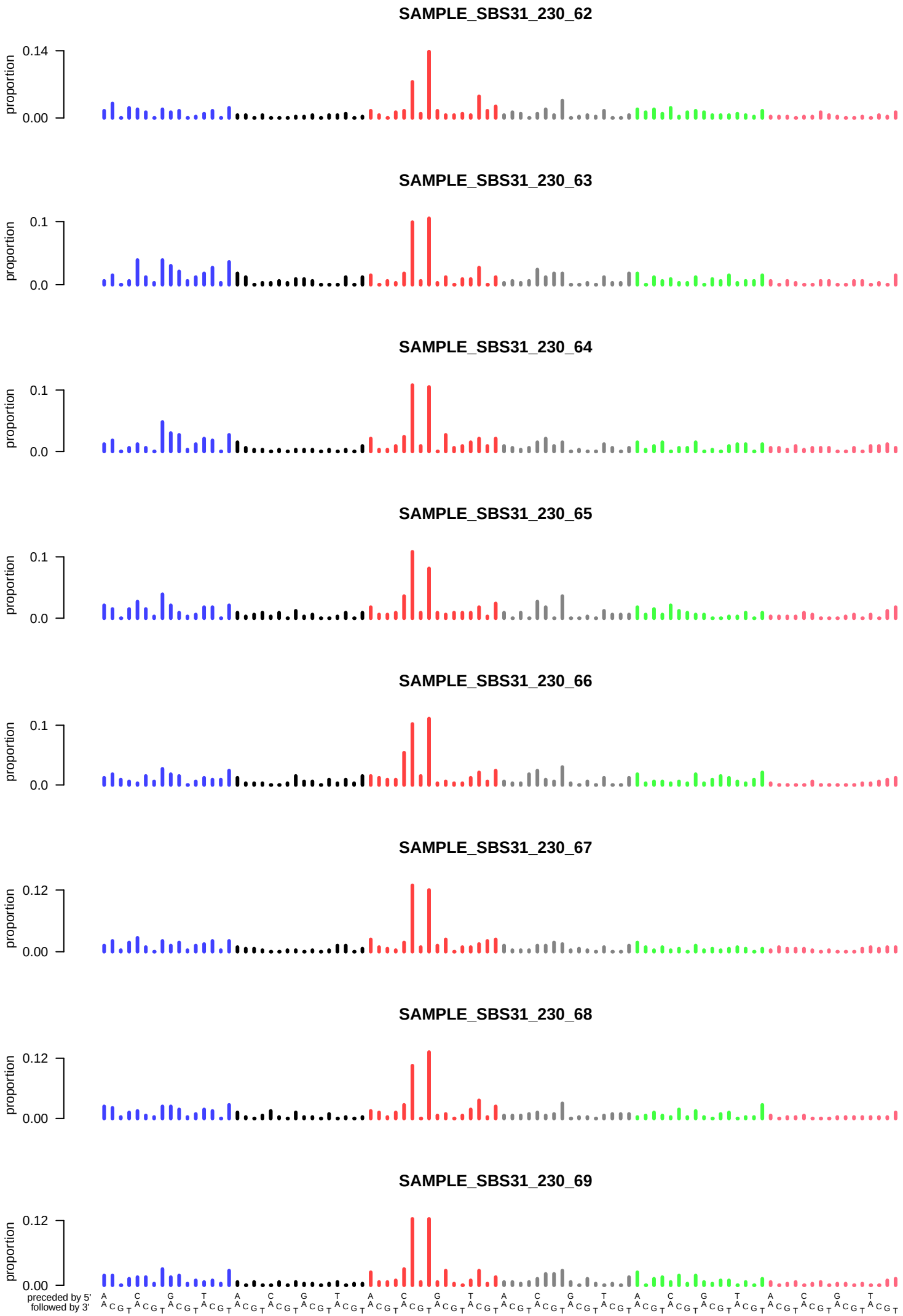
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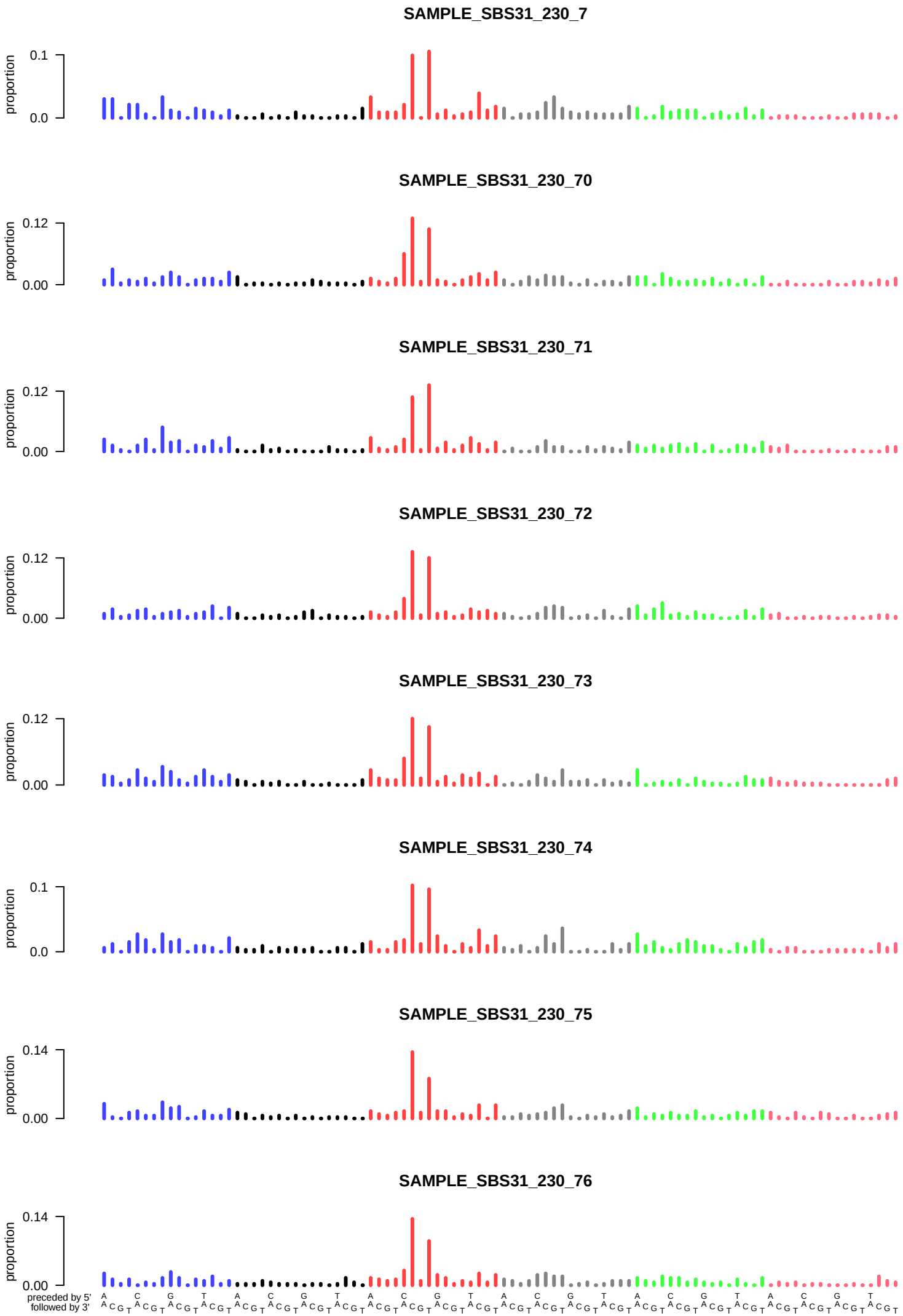
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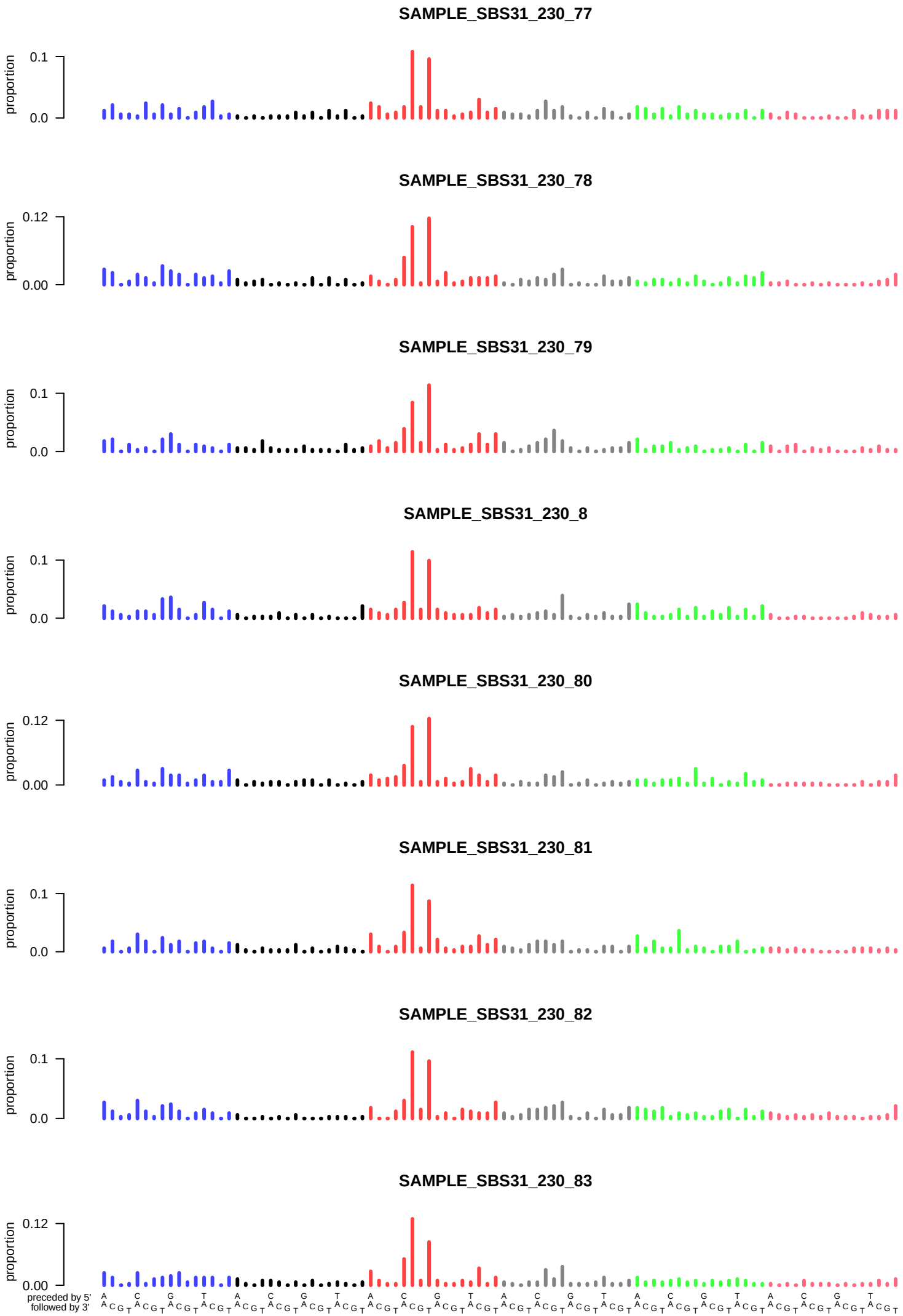
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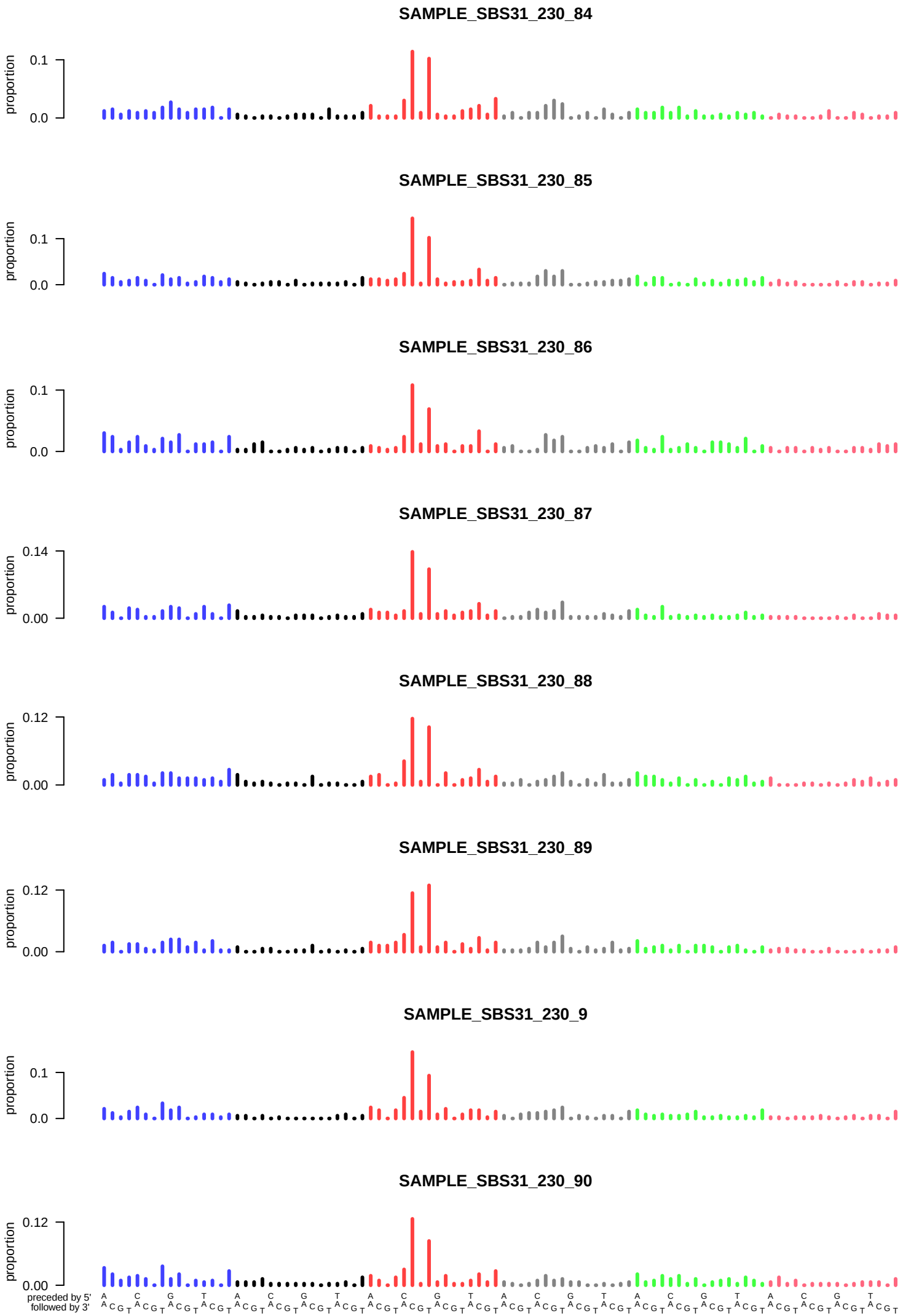
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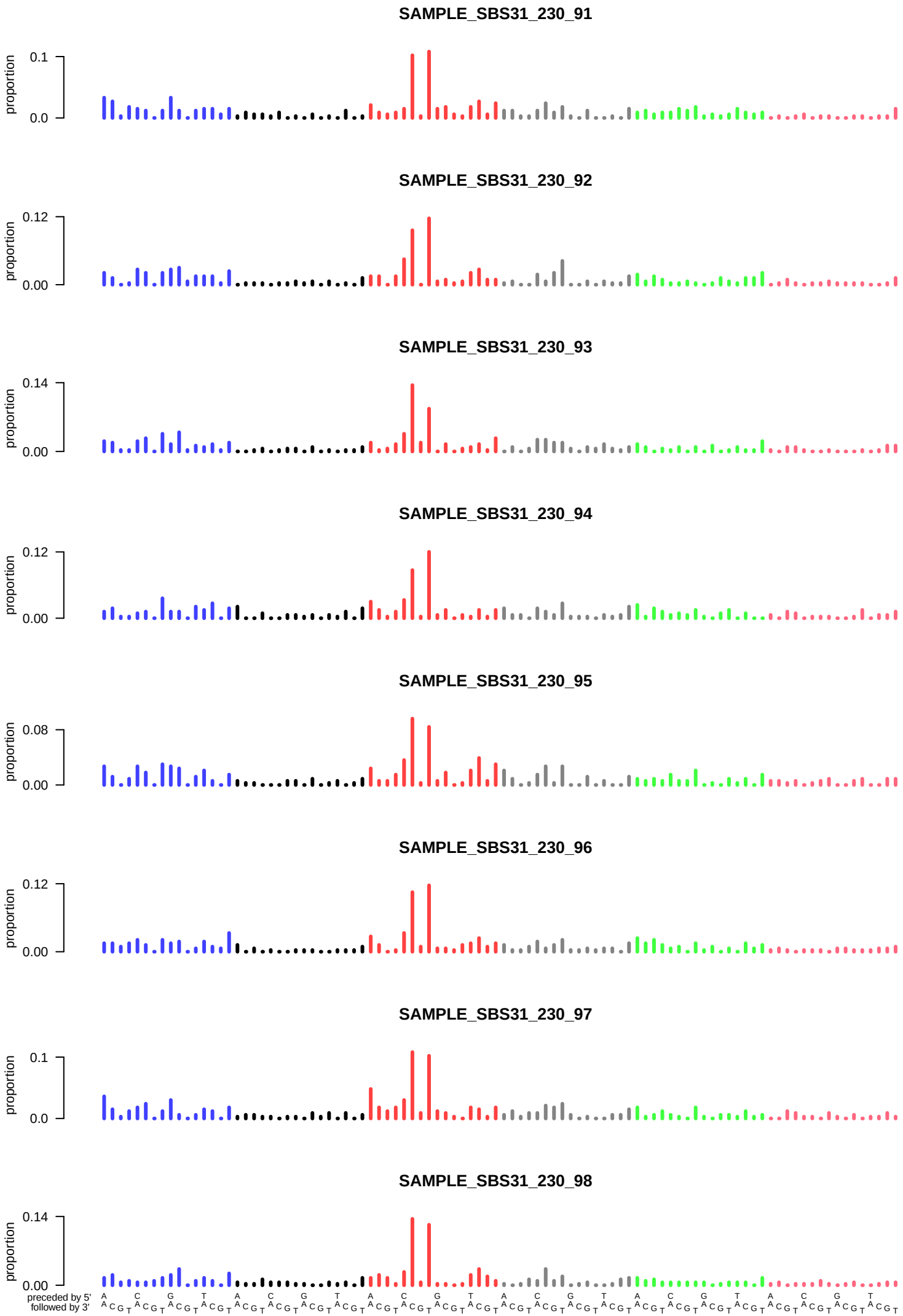
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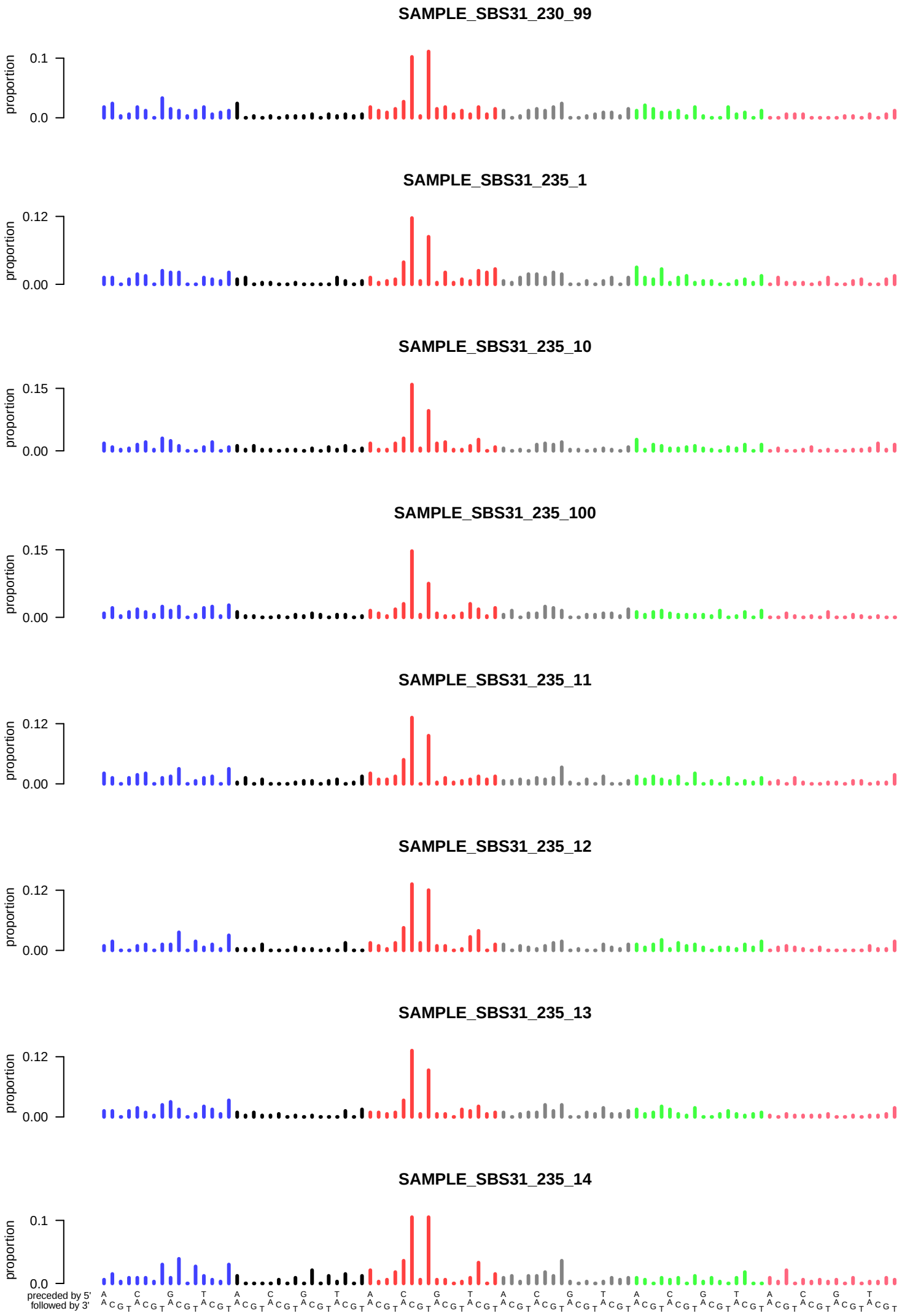
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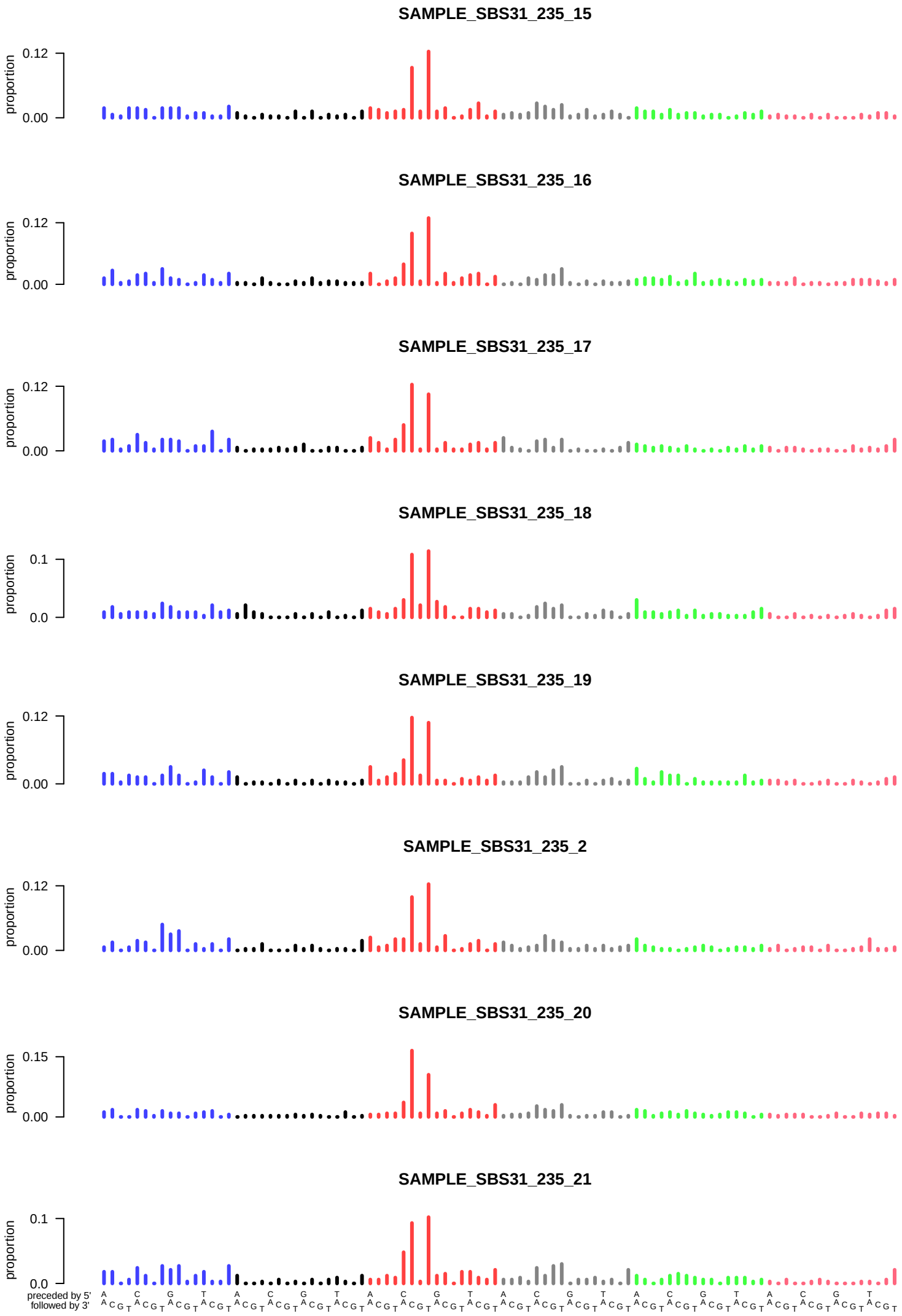
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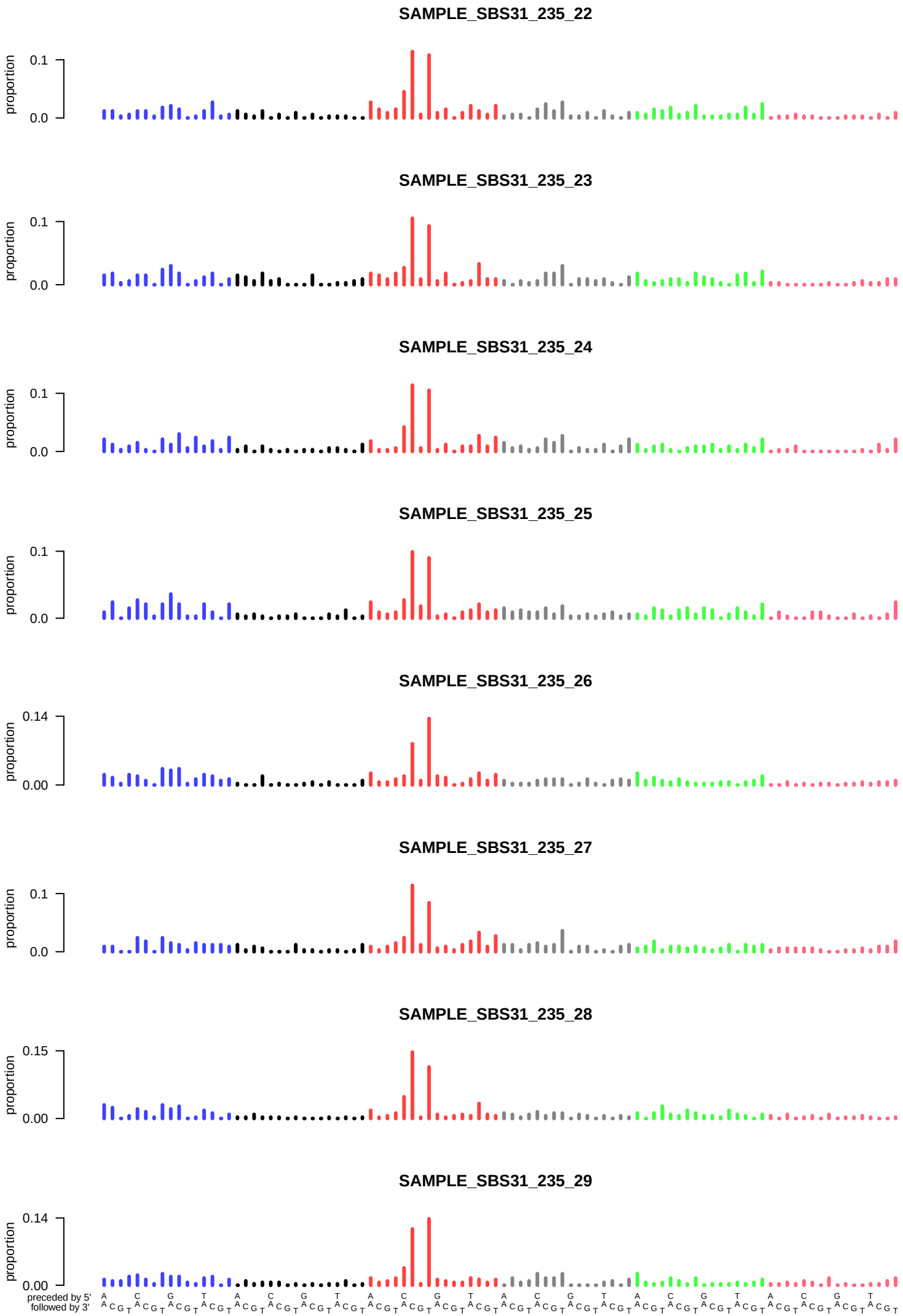
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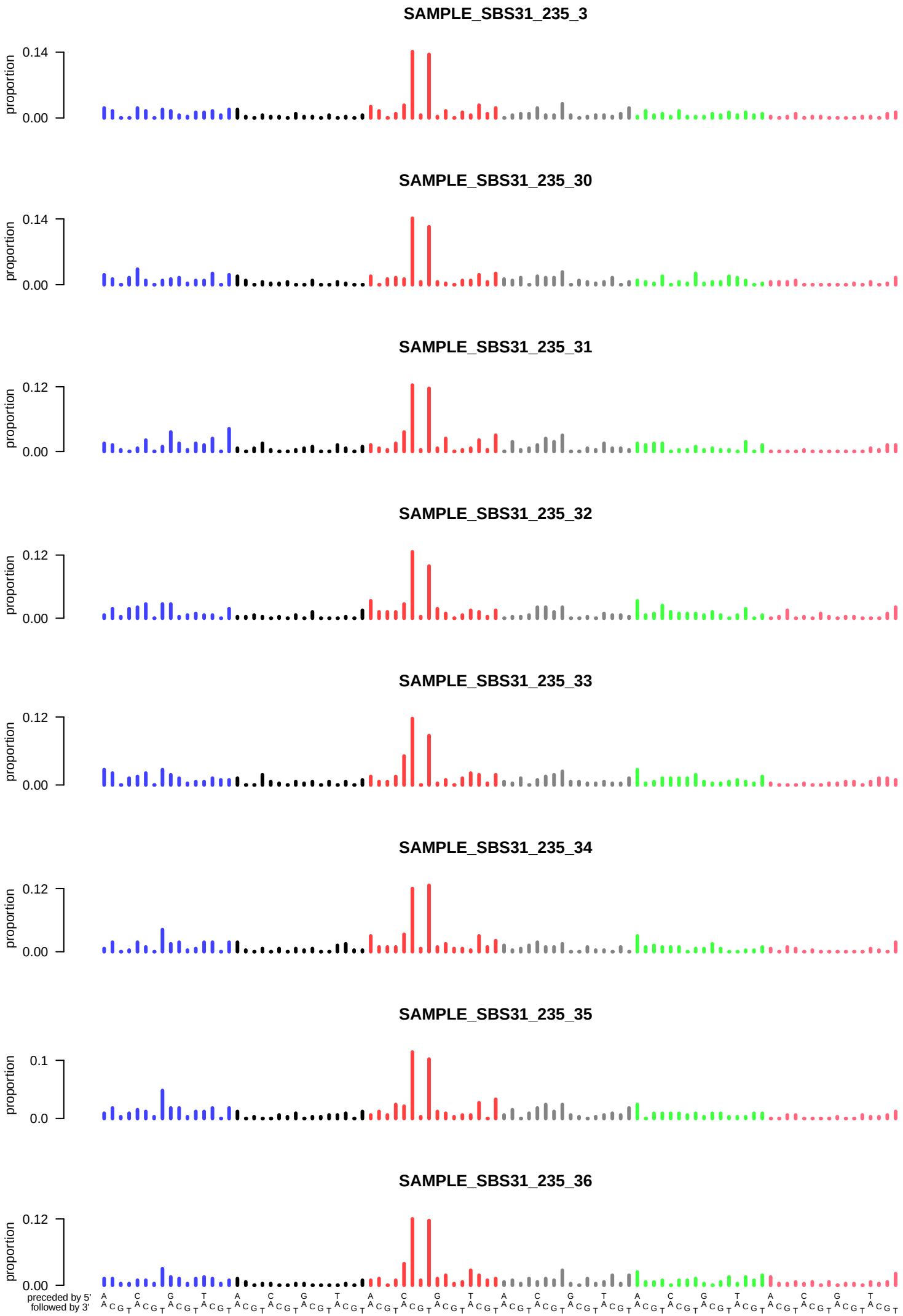
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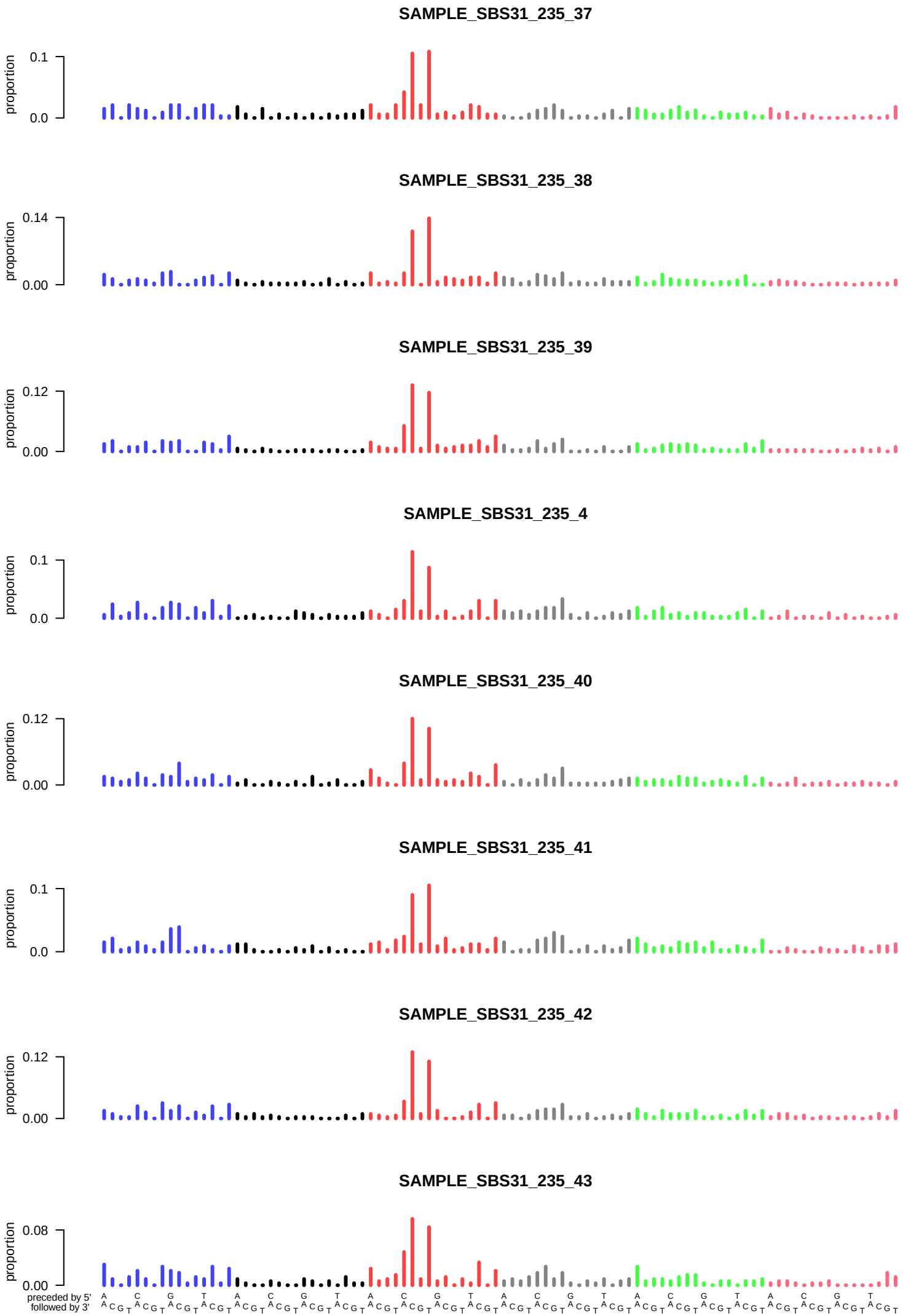
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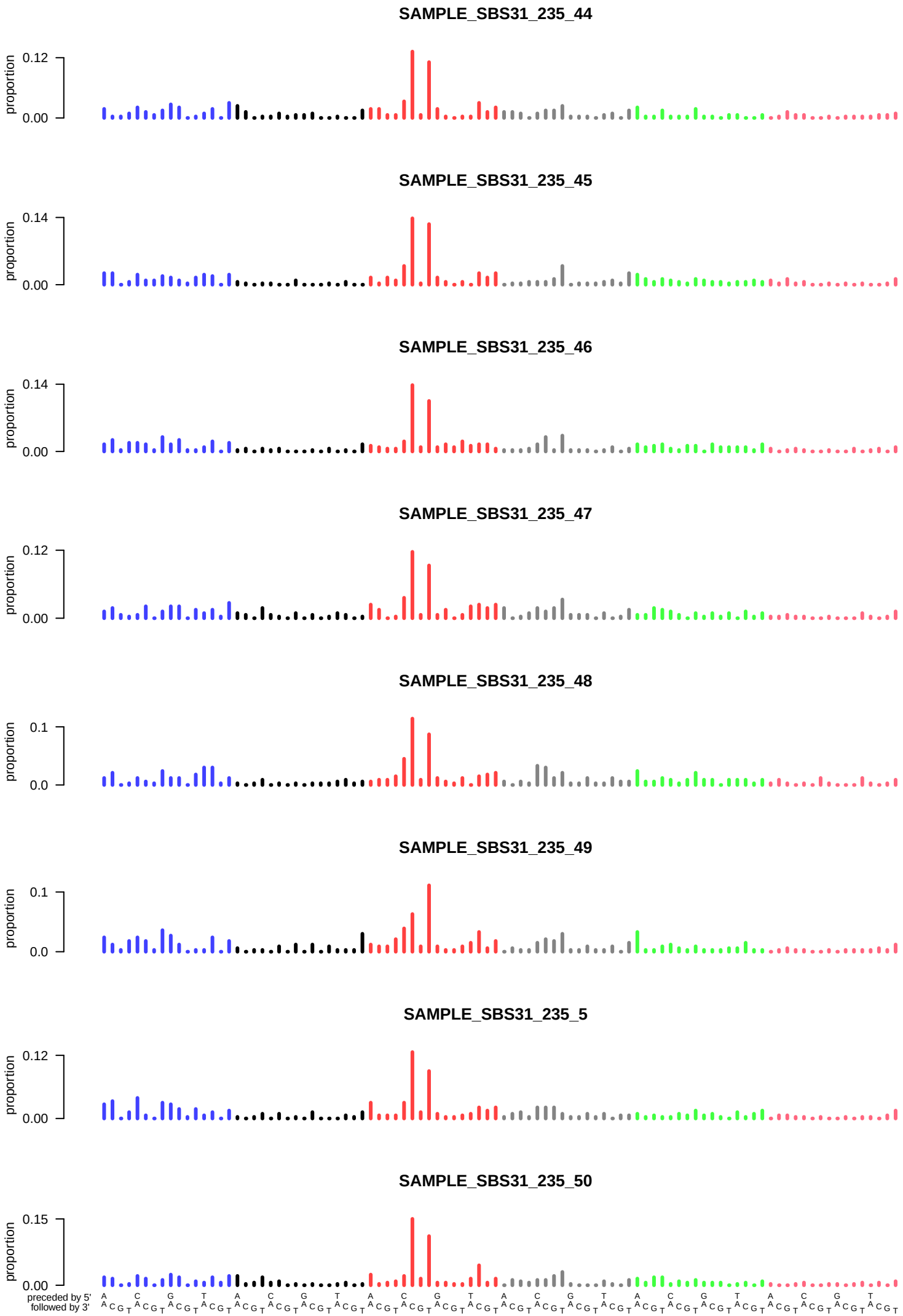
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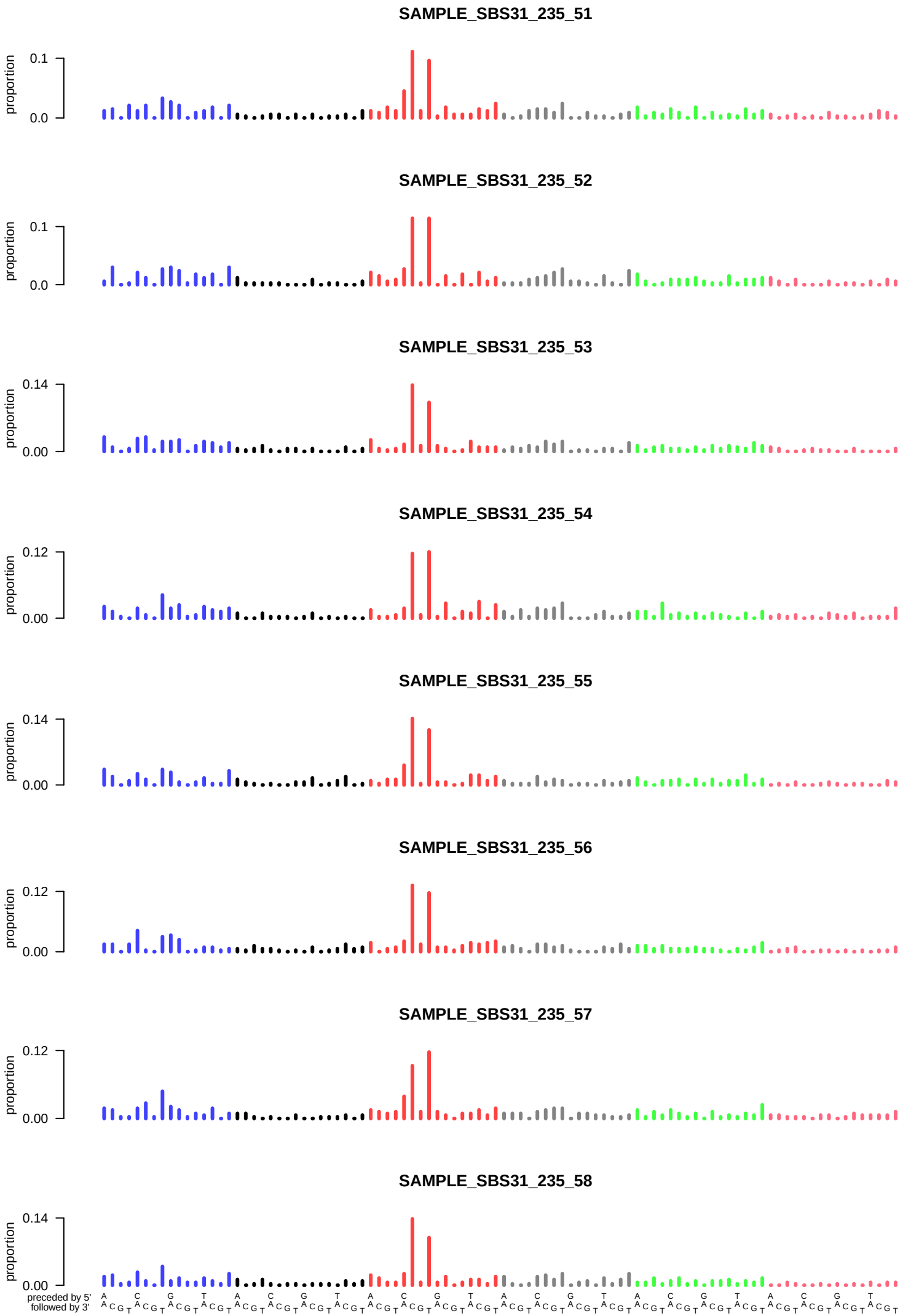
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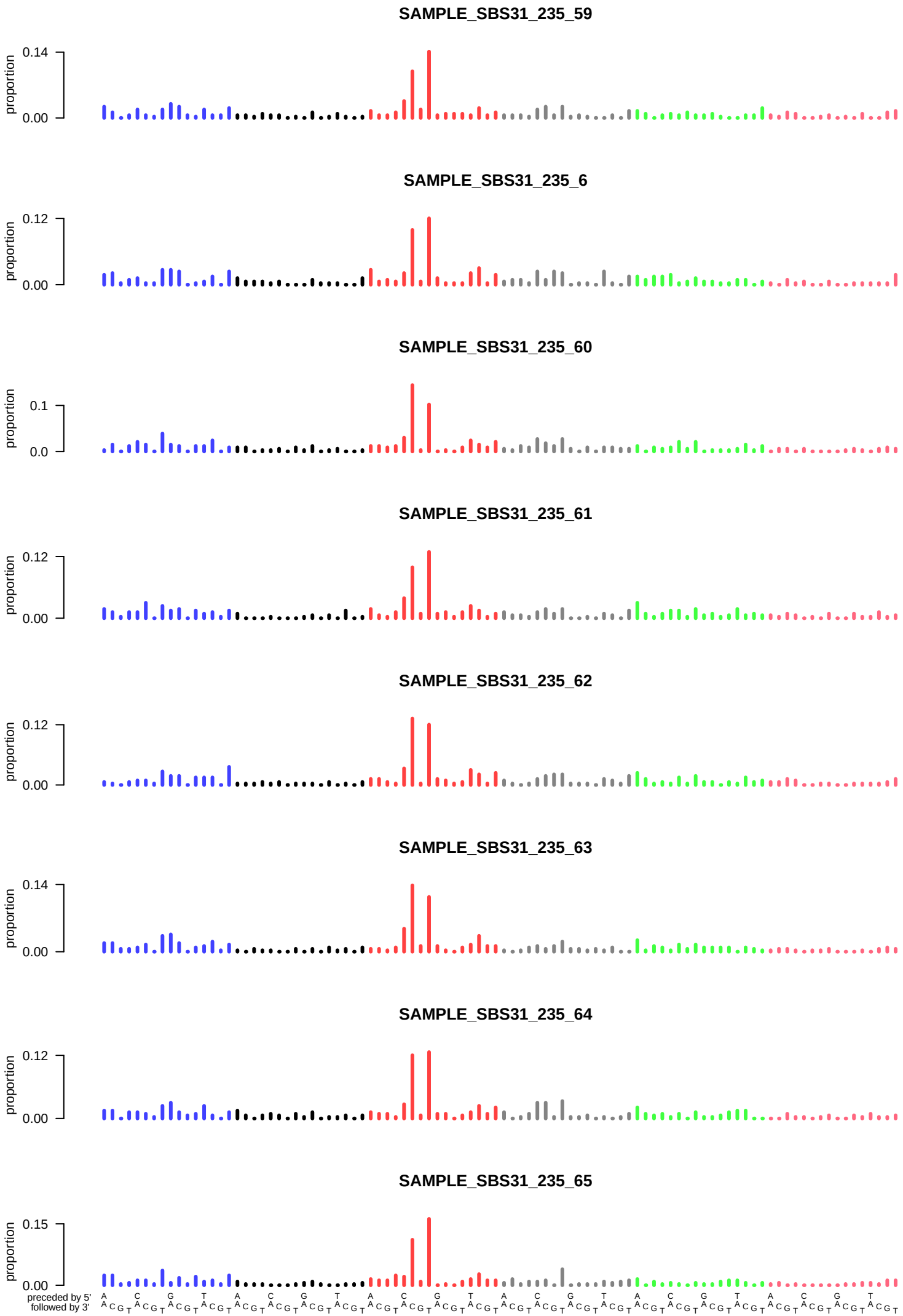
followed by 3'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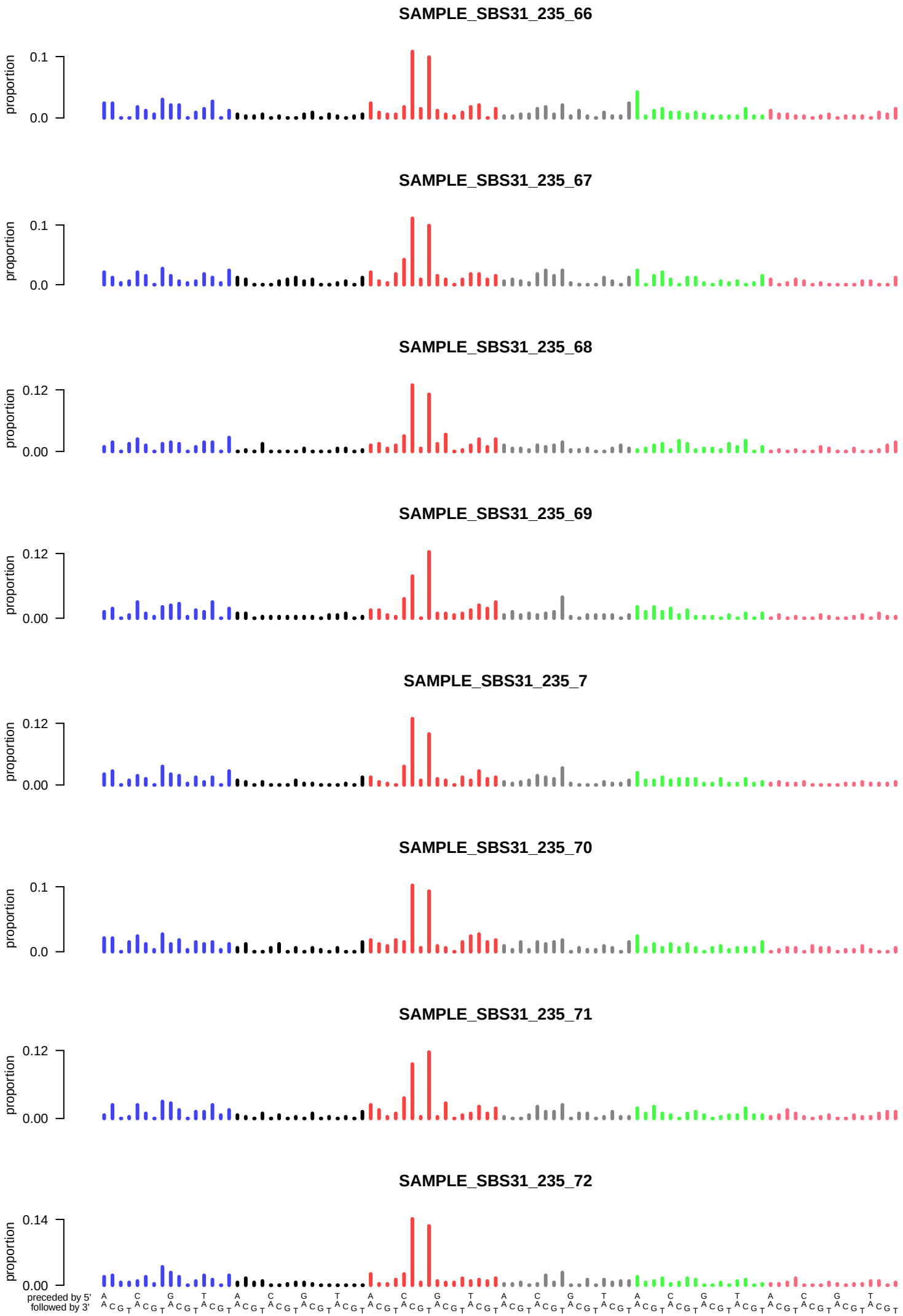
followed by 3'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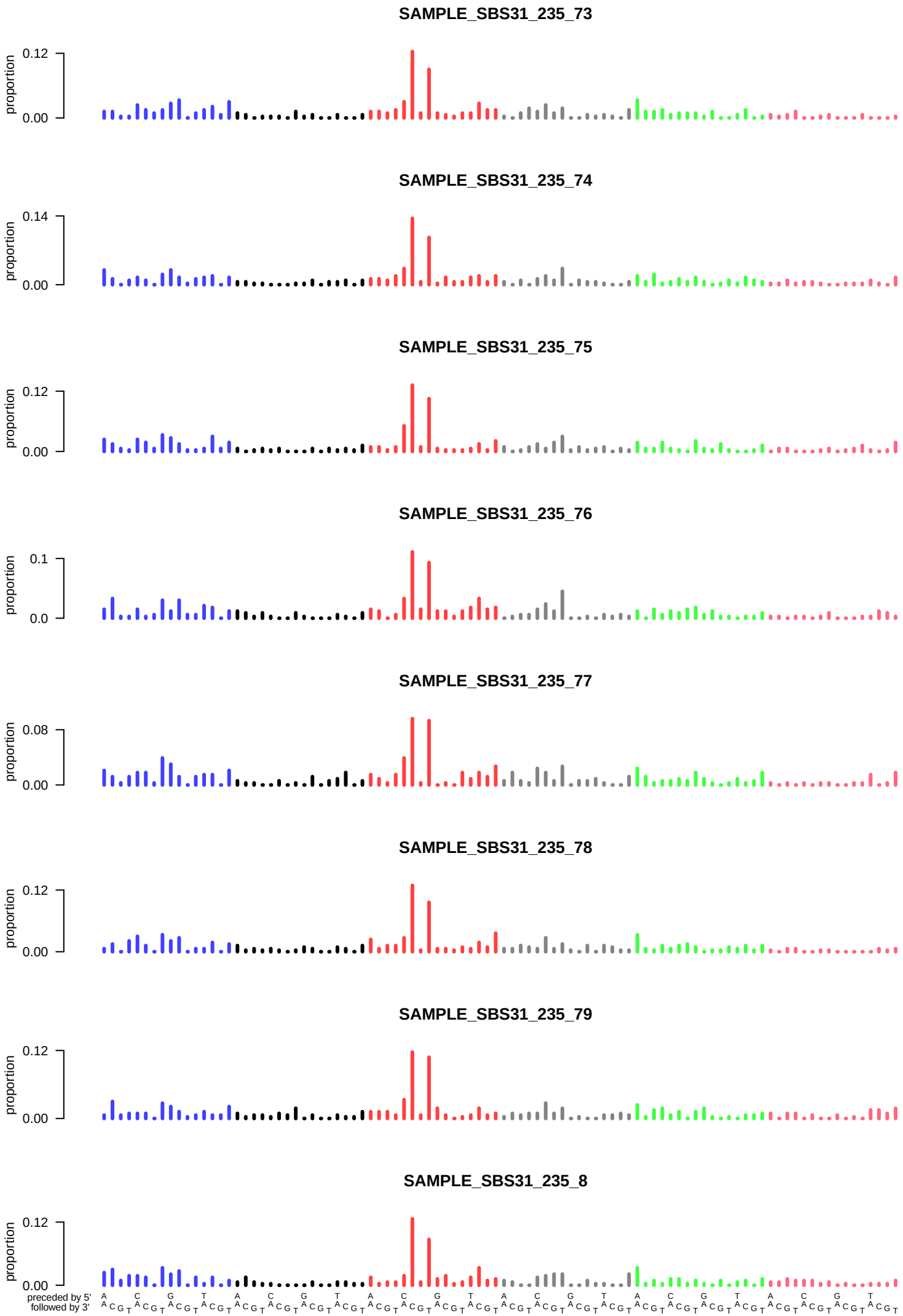
followed by 3'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SAMPLE_SBS31_235_78
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SAMPLE_SBS31_235_79
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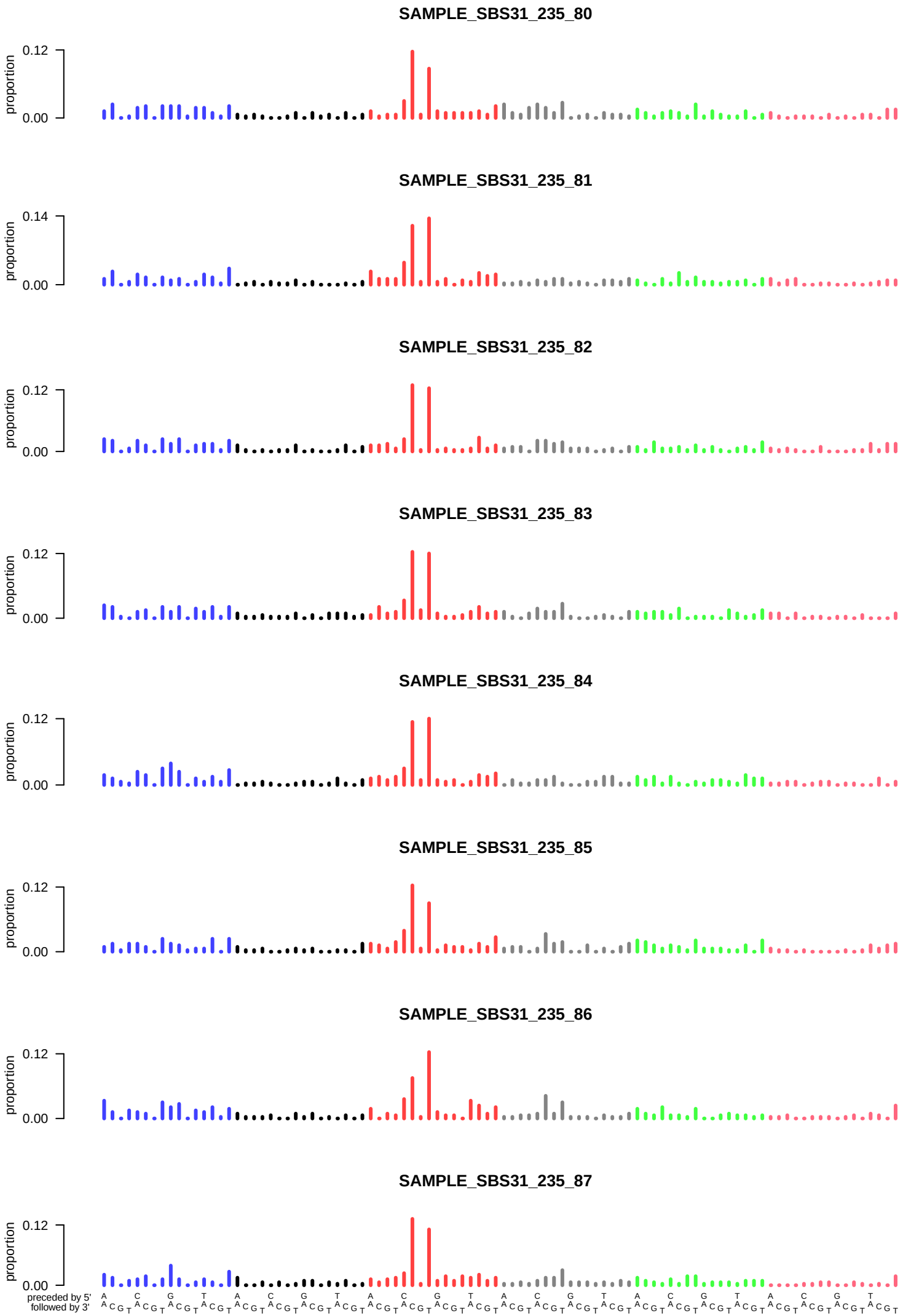
followed by 3'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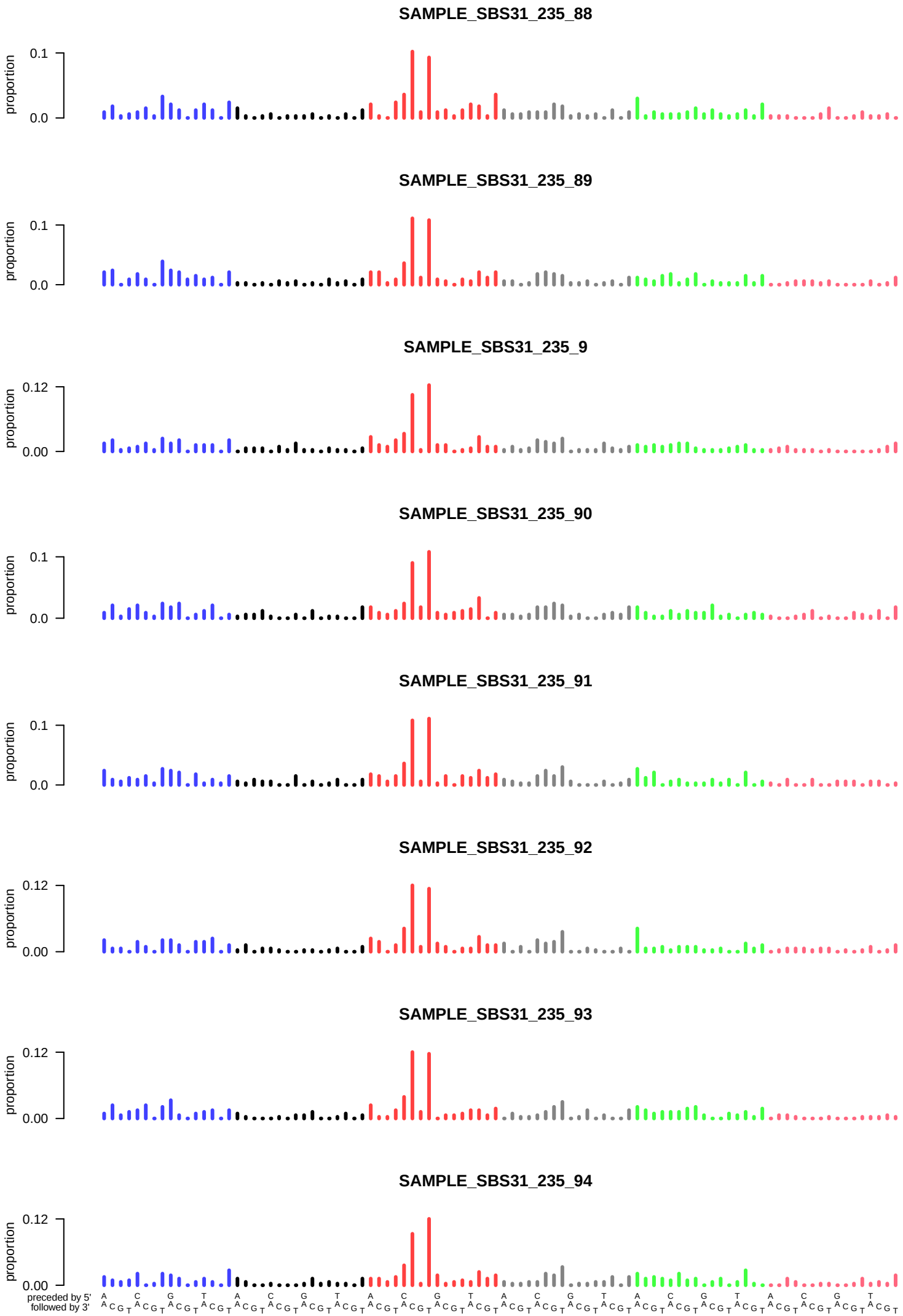
followed by 3'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SAMPLE_SBS31_235_91
SAMPLE_SBS31_235_92
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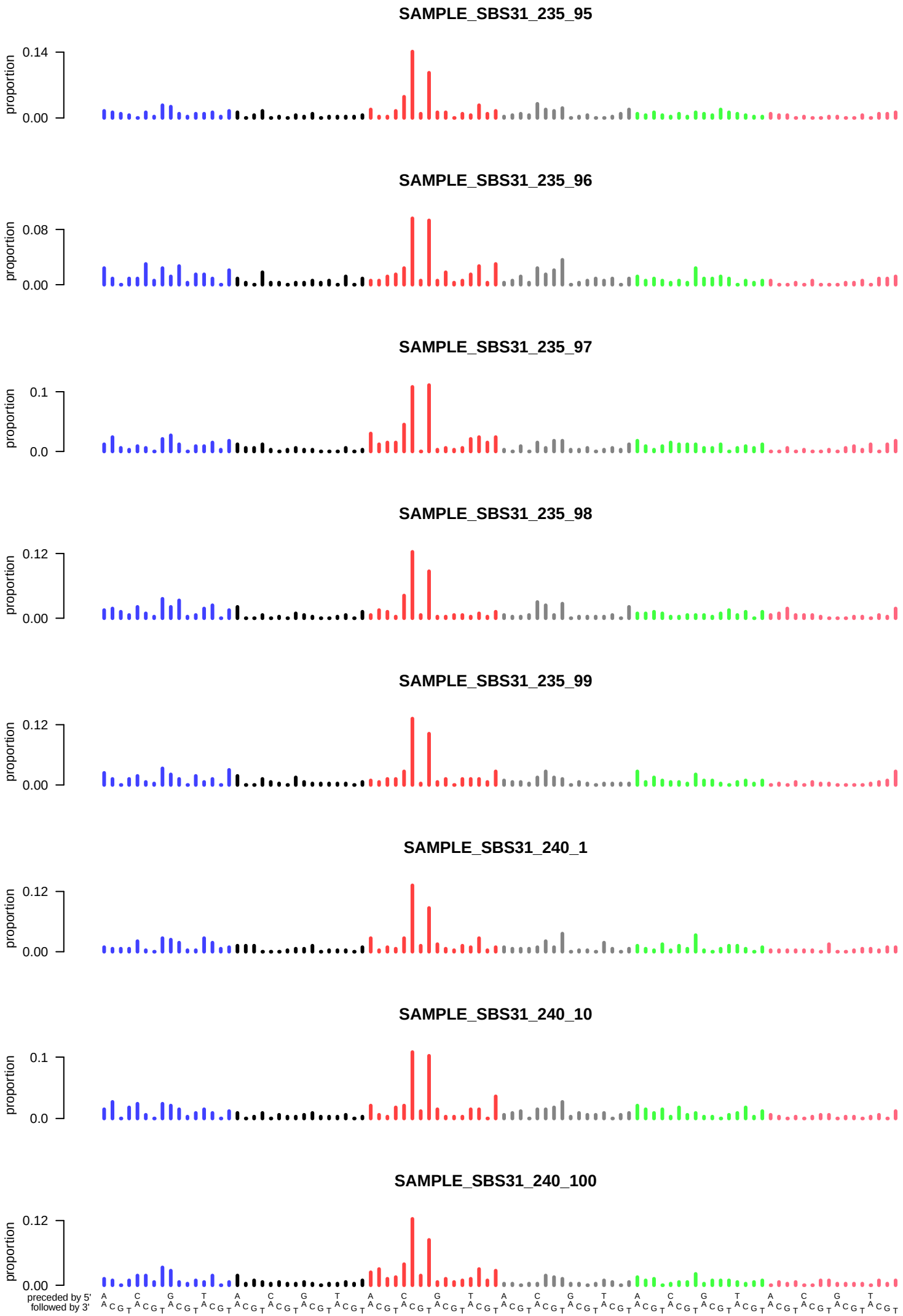
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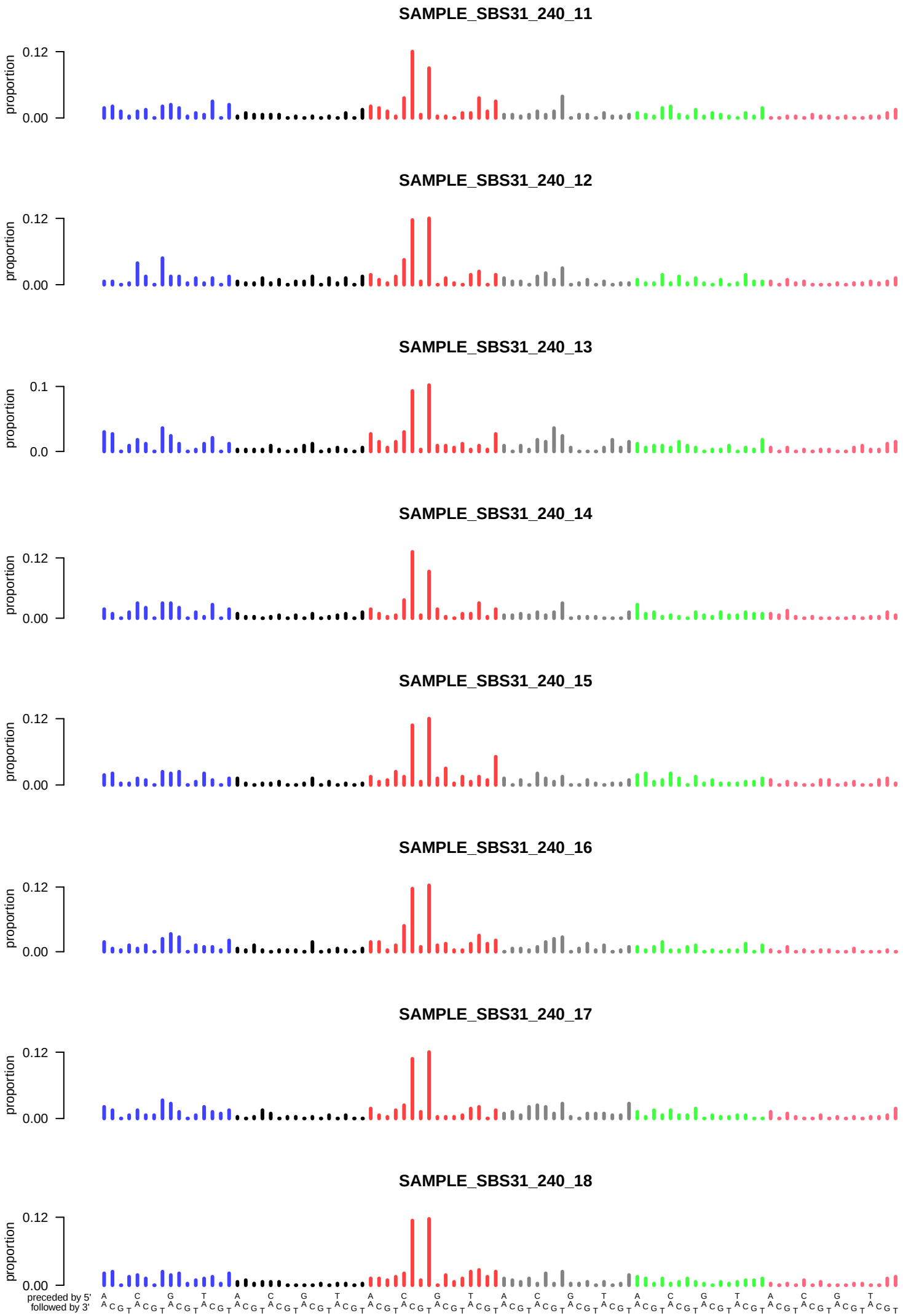
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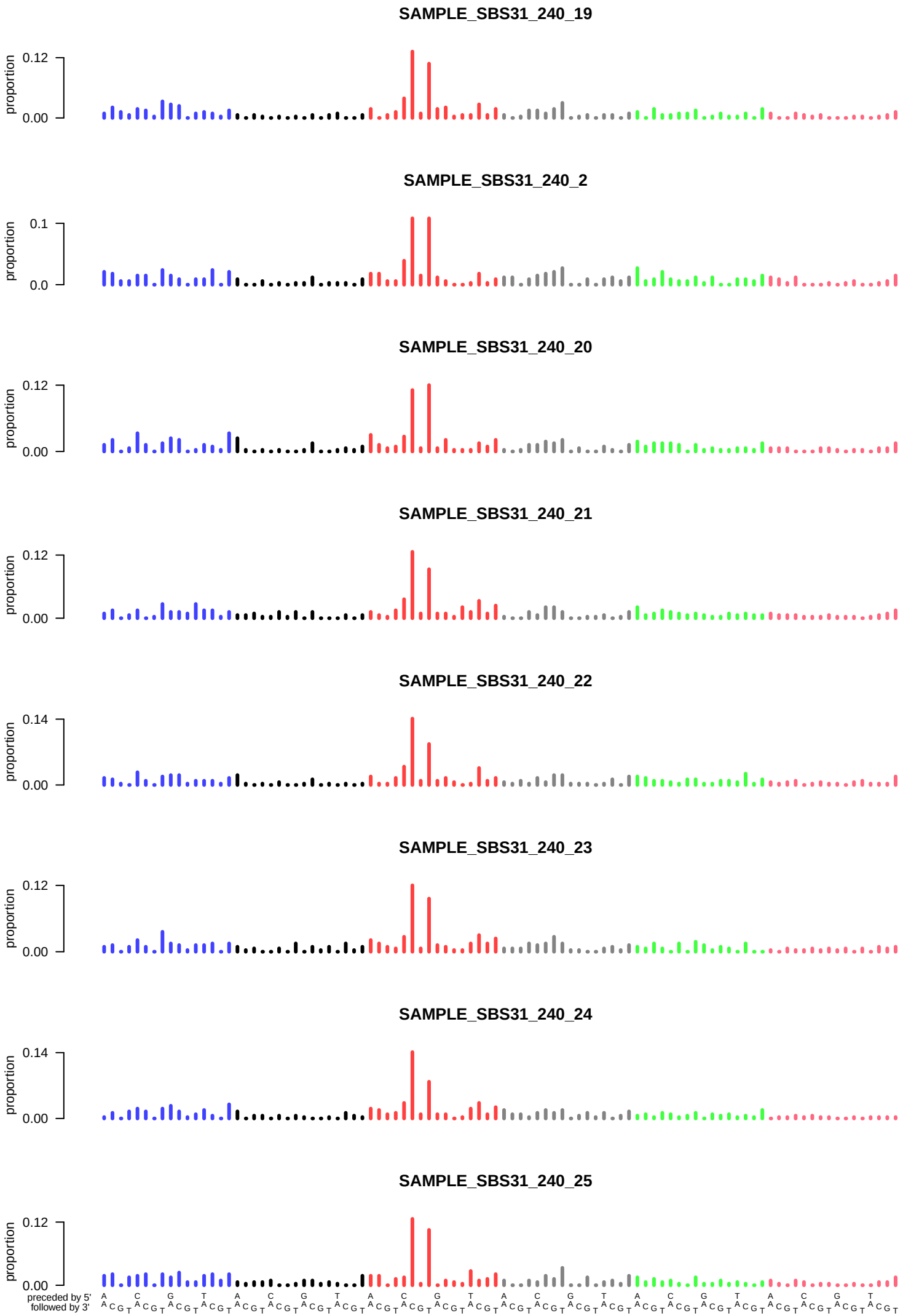
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SAMPLE_SBS31_240_21
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SAMPLE_SBS31_240_22
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SAMPLE_SBS31_240_24
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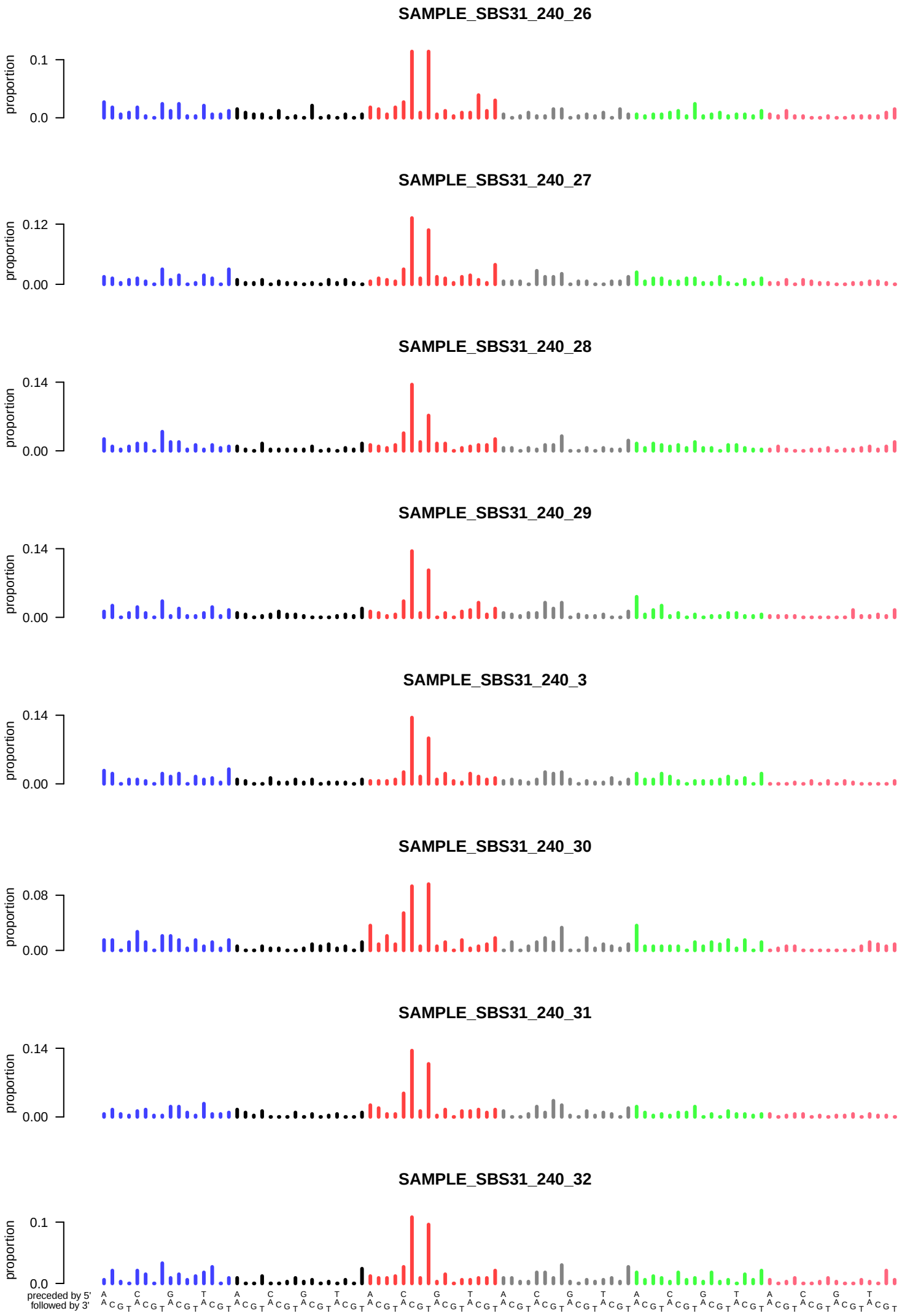
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SAMPLE_SBS31_240_28
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SAMPLE_SBS31_240_29
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SAMPLE_SBS31_240_3
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SAMPLE_SBS31_240_30
proportion
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SAMPLE_SBS31_240_31
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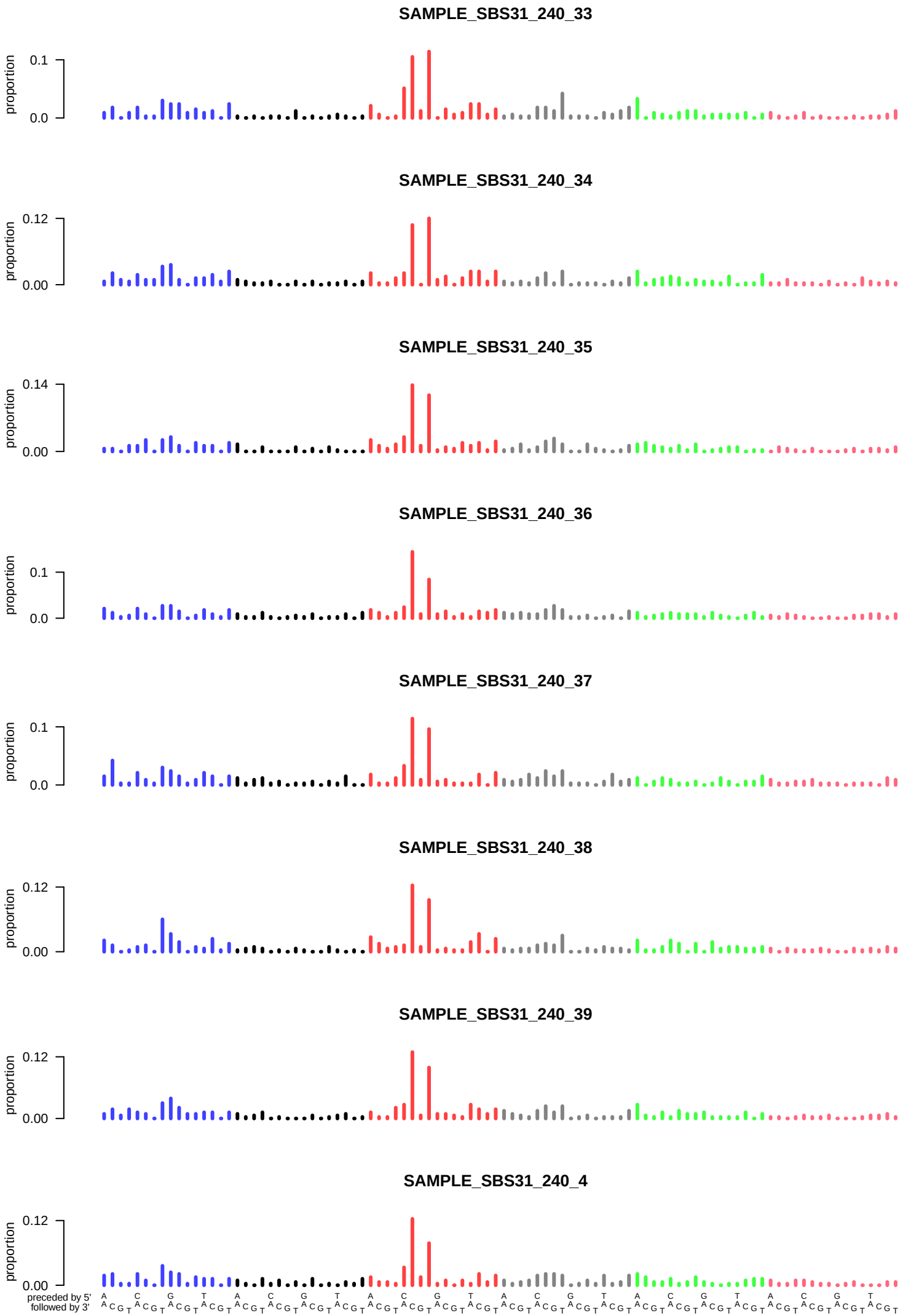
followed by 3'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SAMPLE_SBS31_240_38
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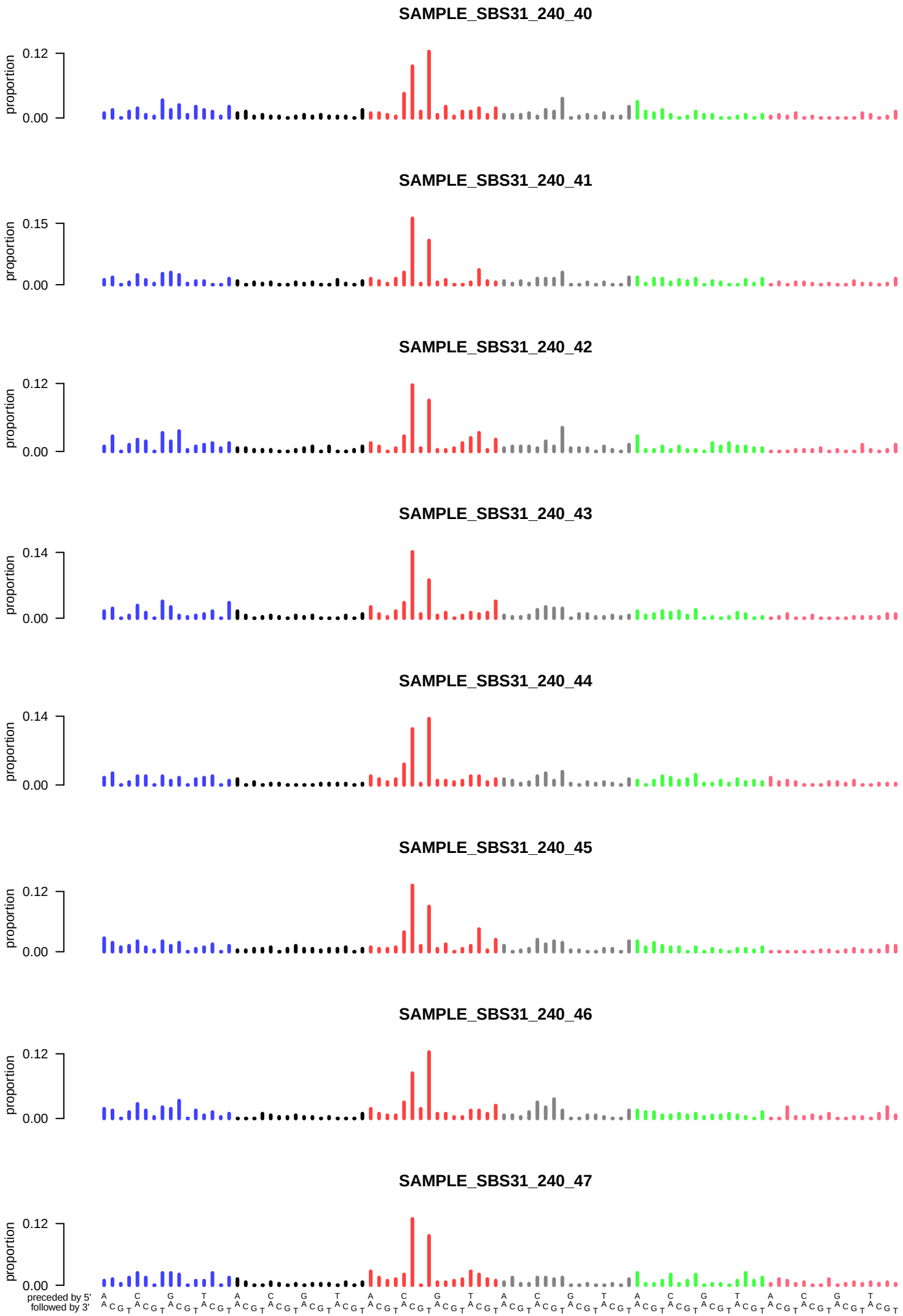
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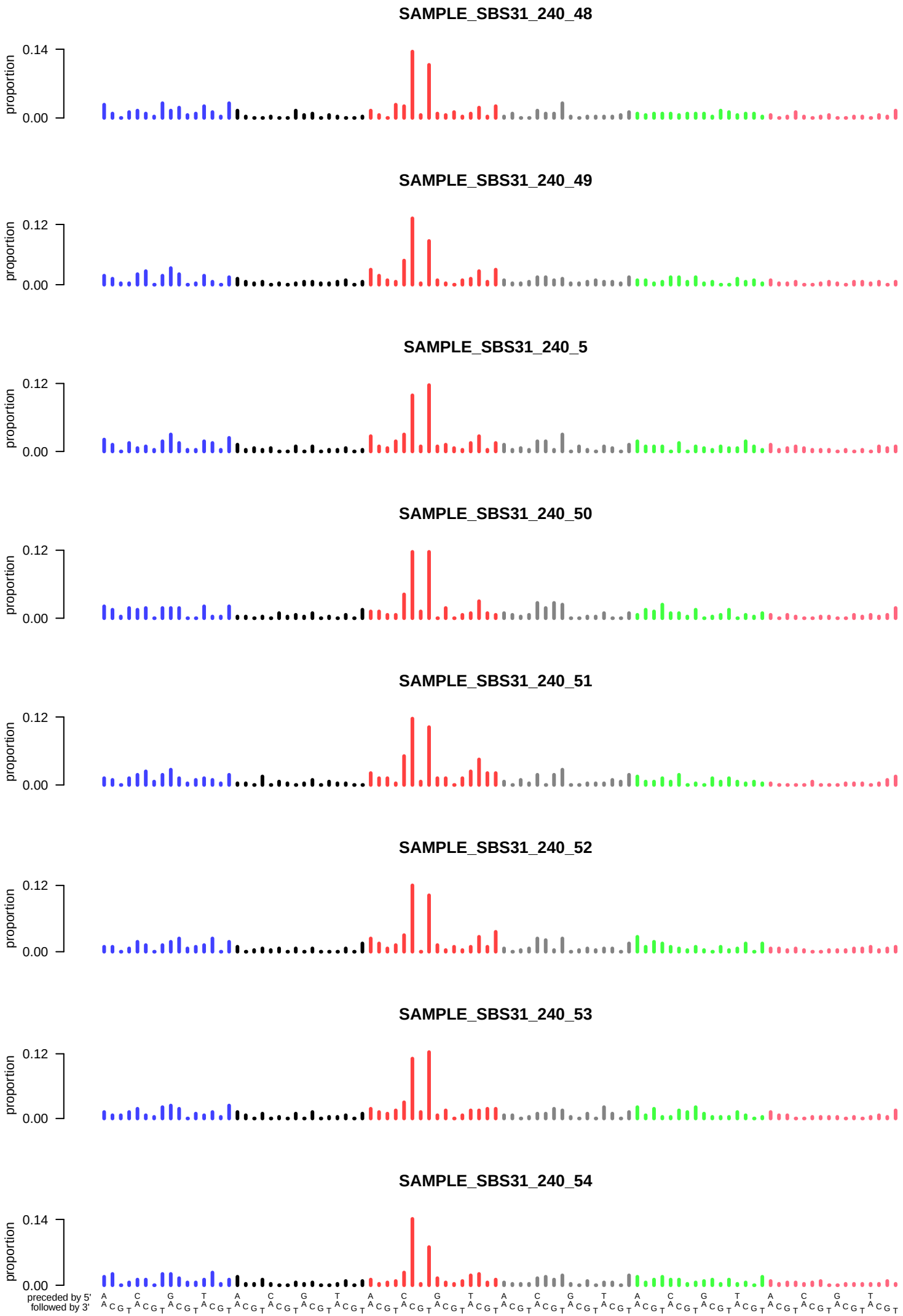
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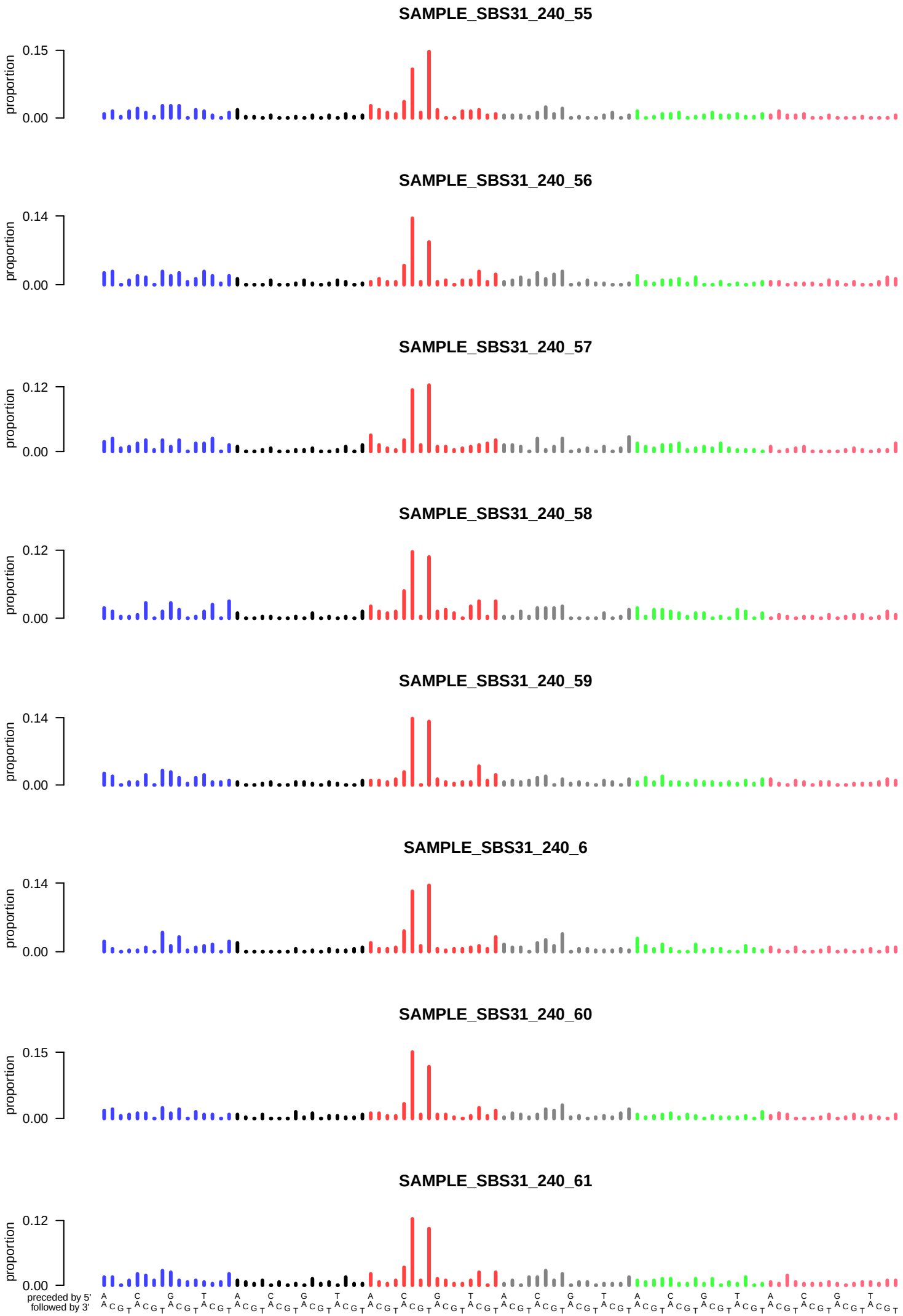
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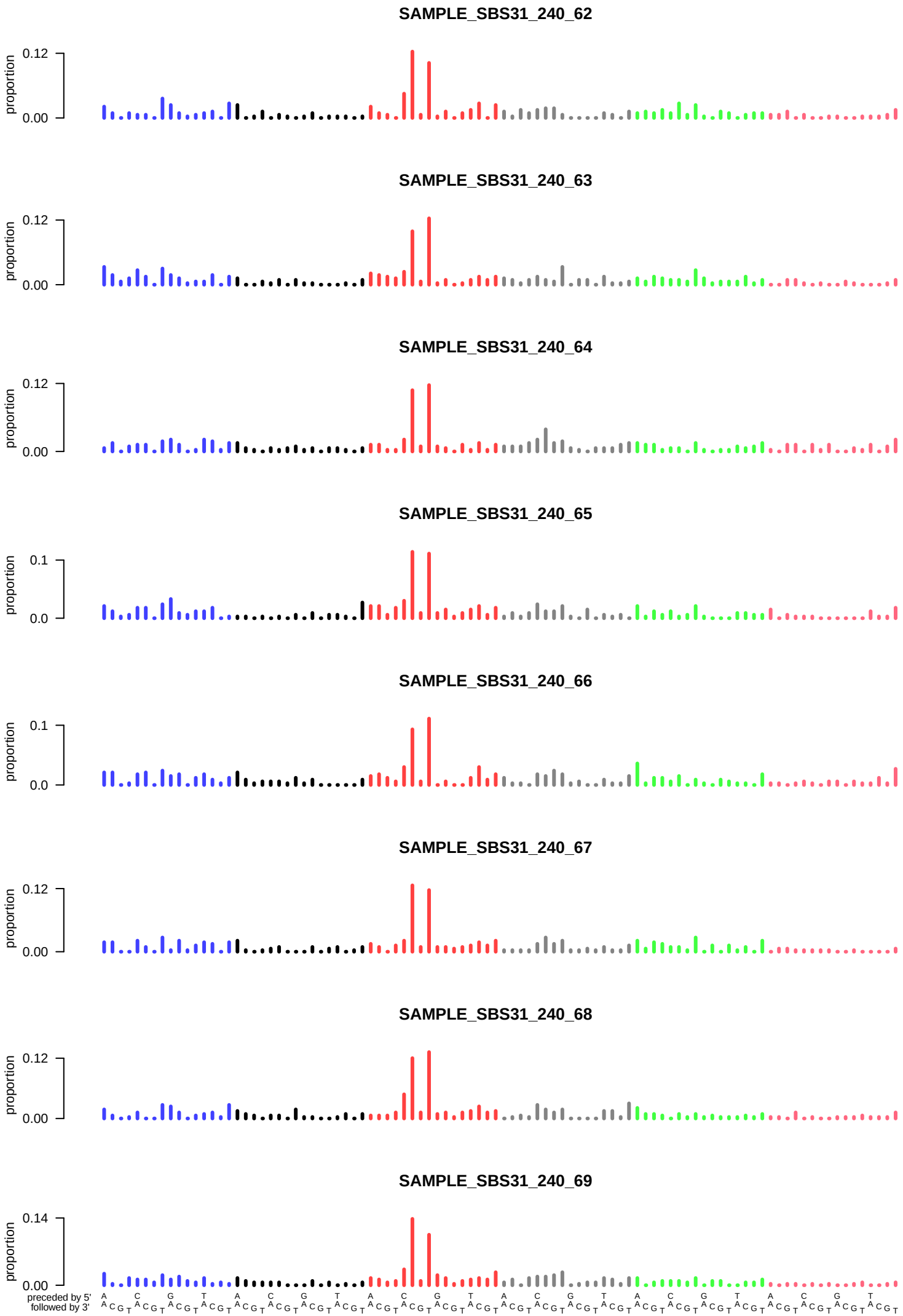
followed by 3'
A C G T A C G T A C G T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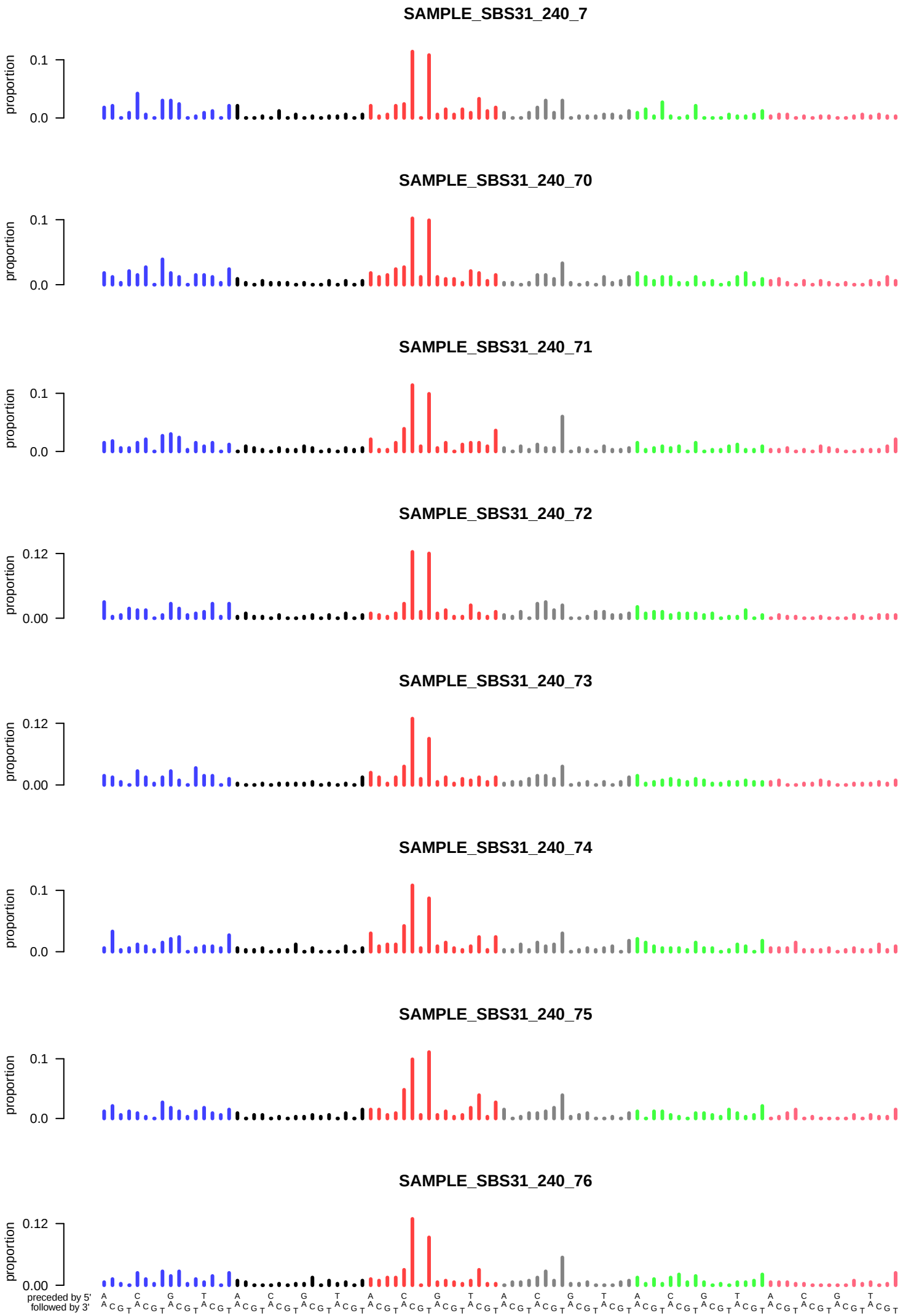
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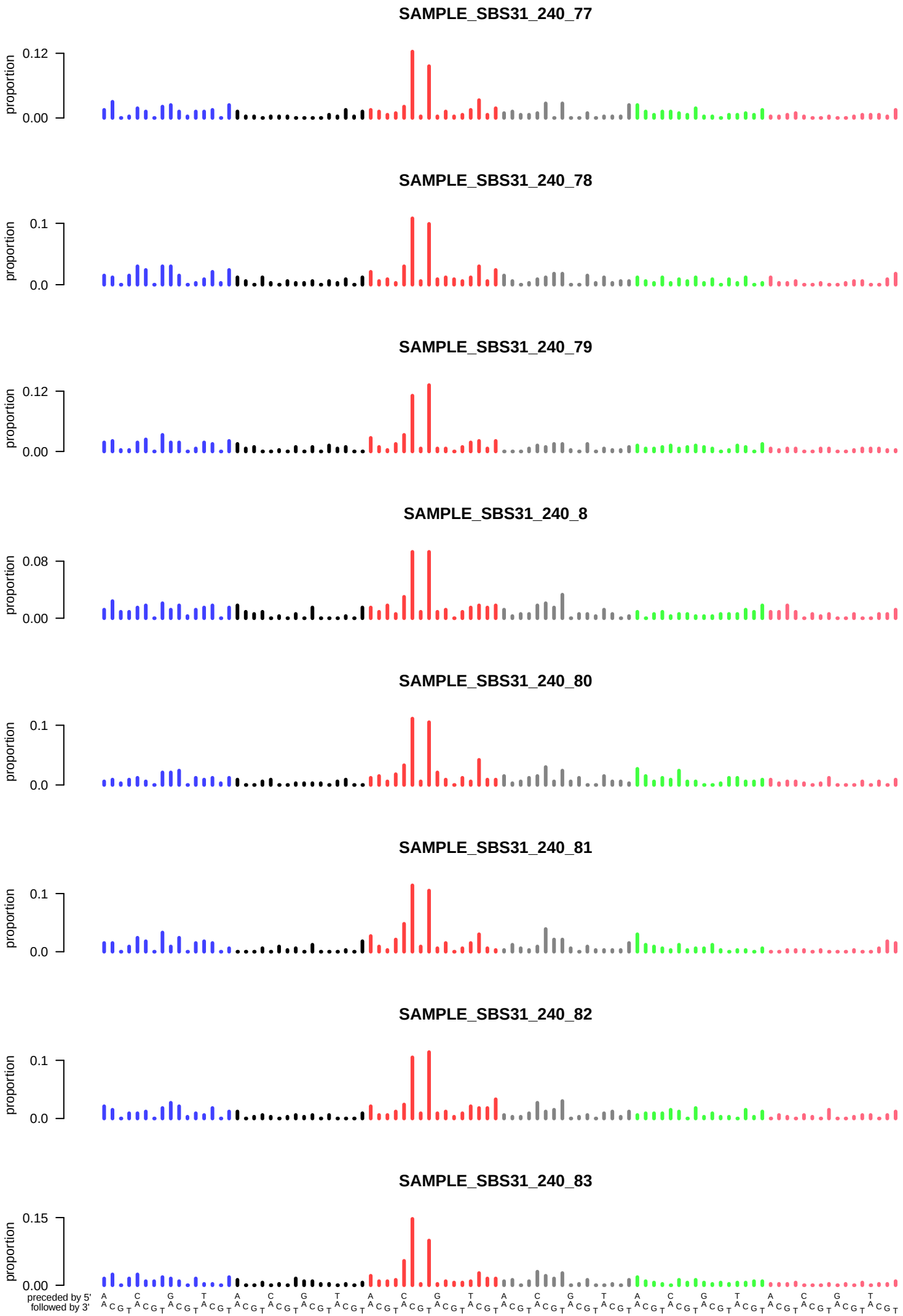
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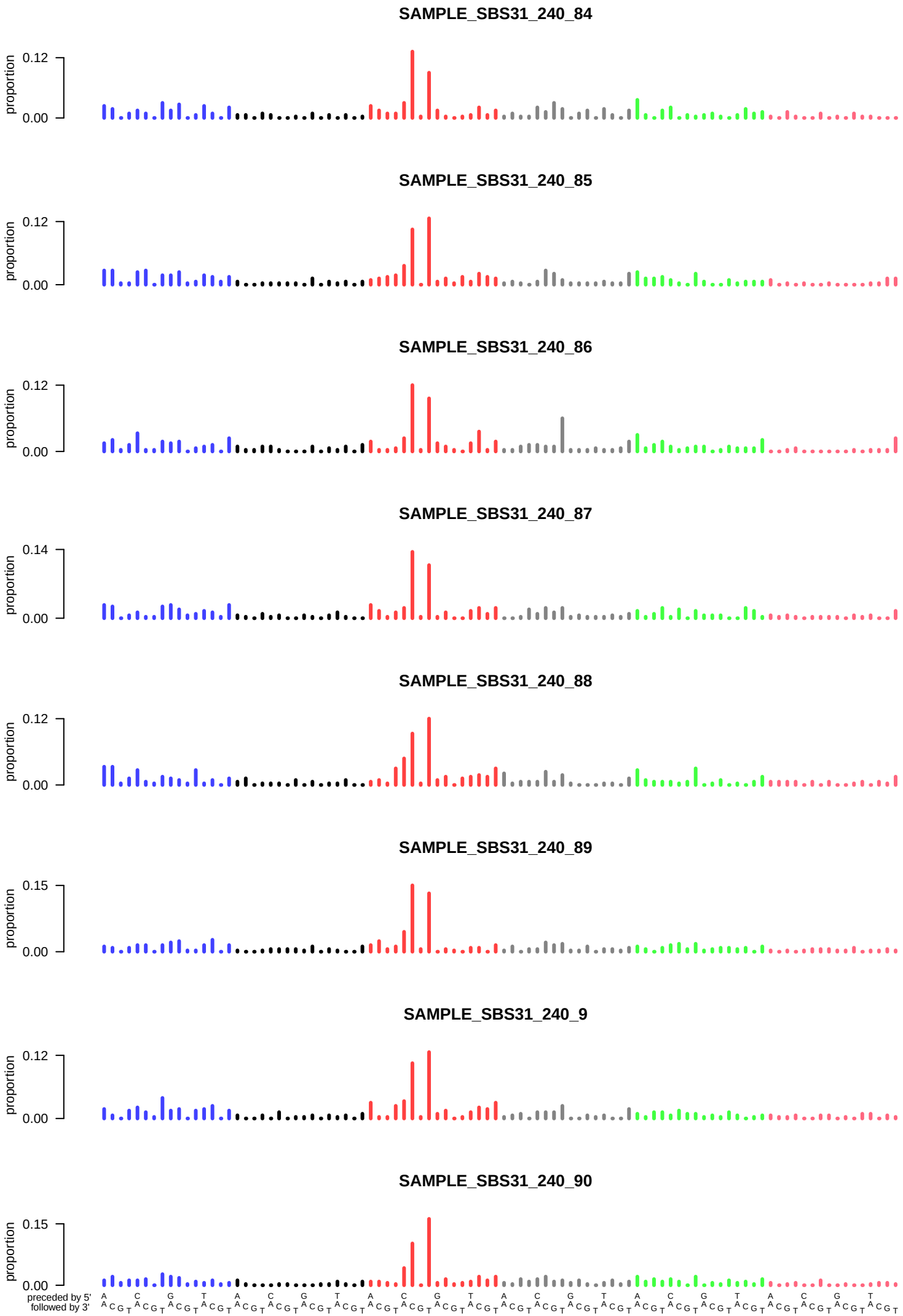
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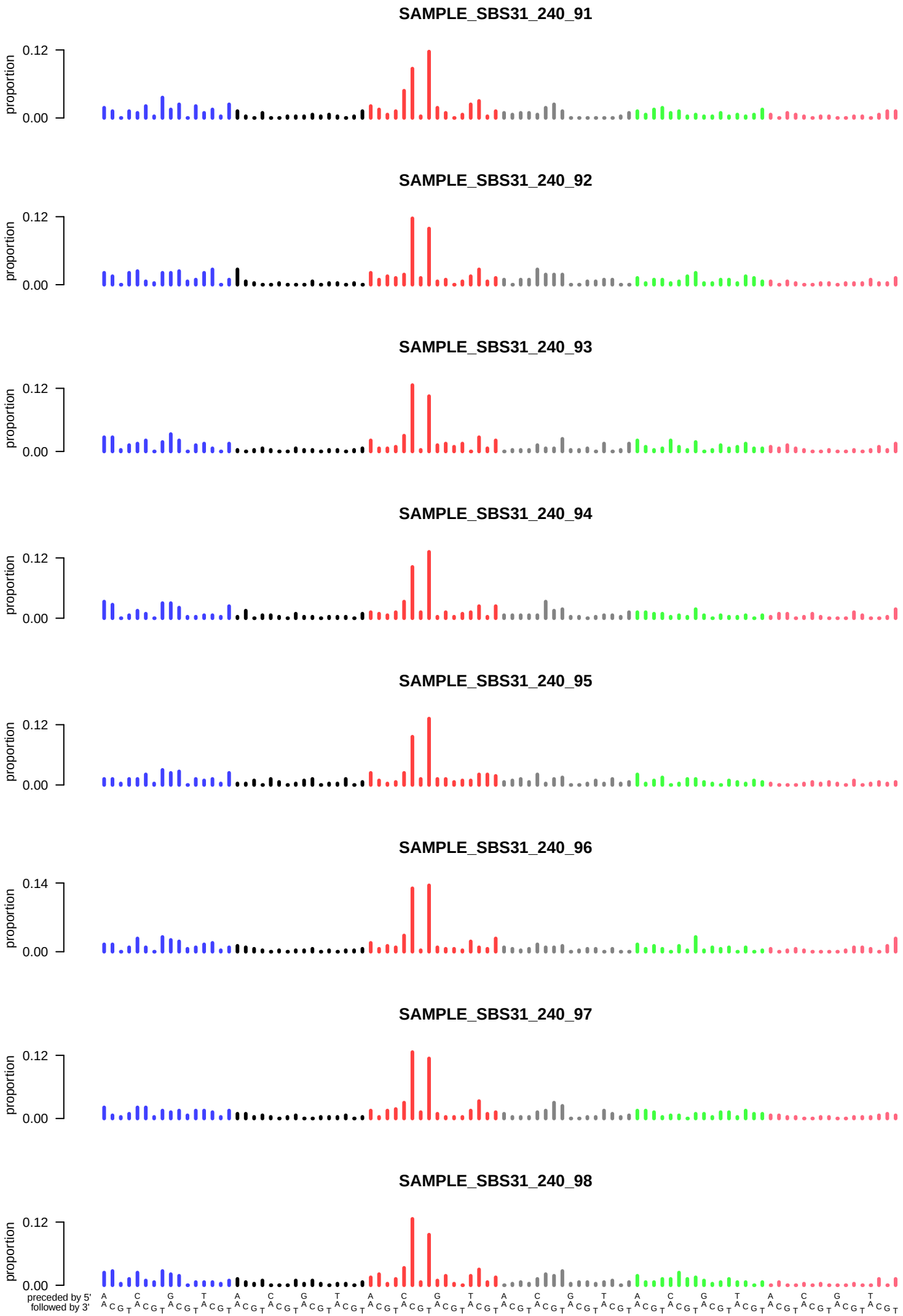
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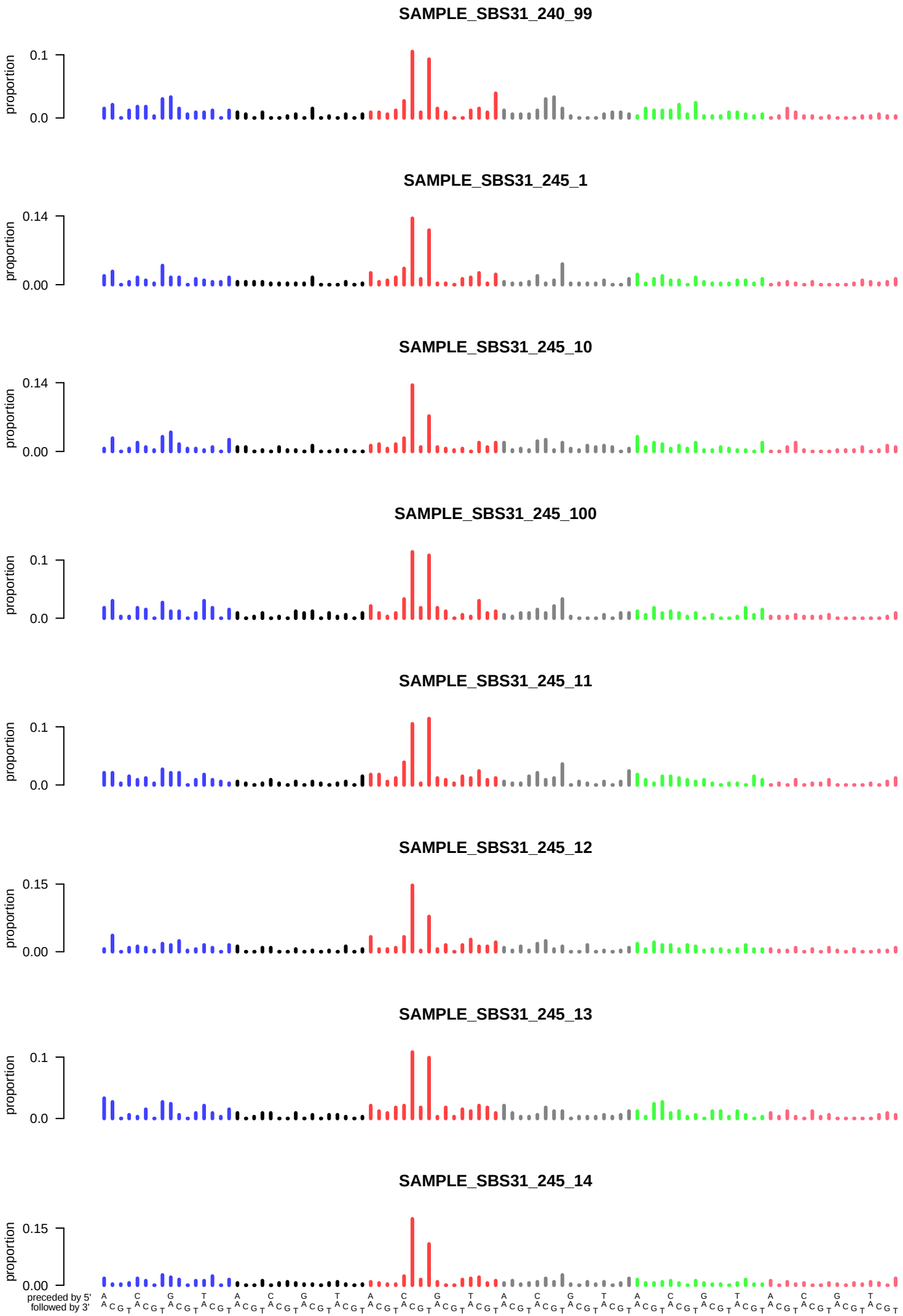
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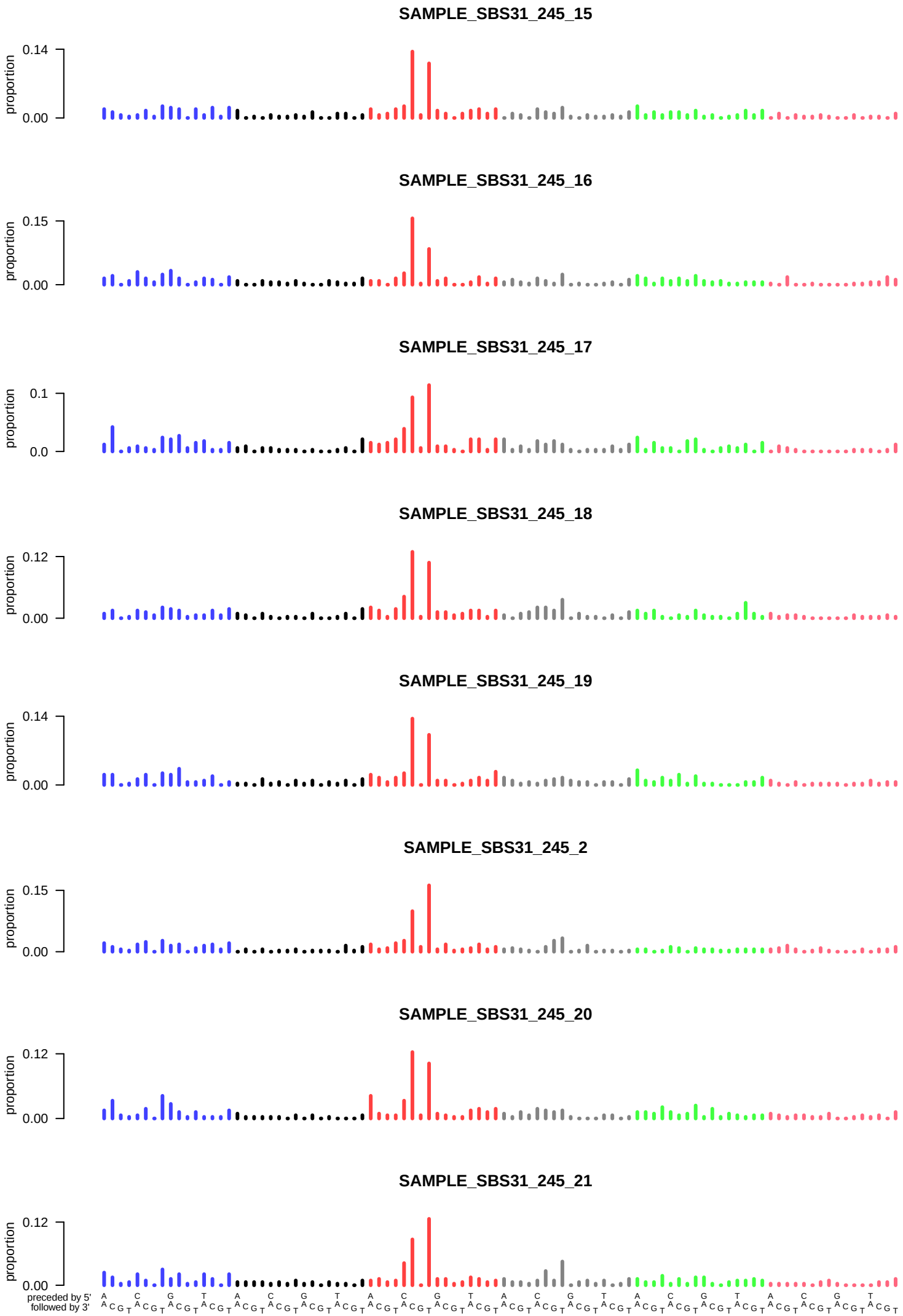
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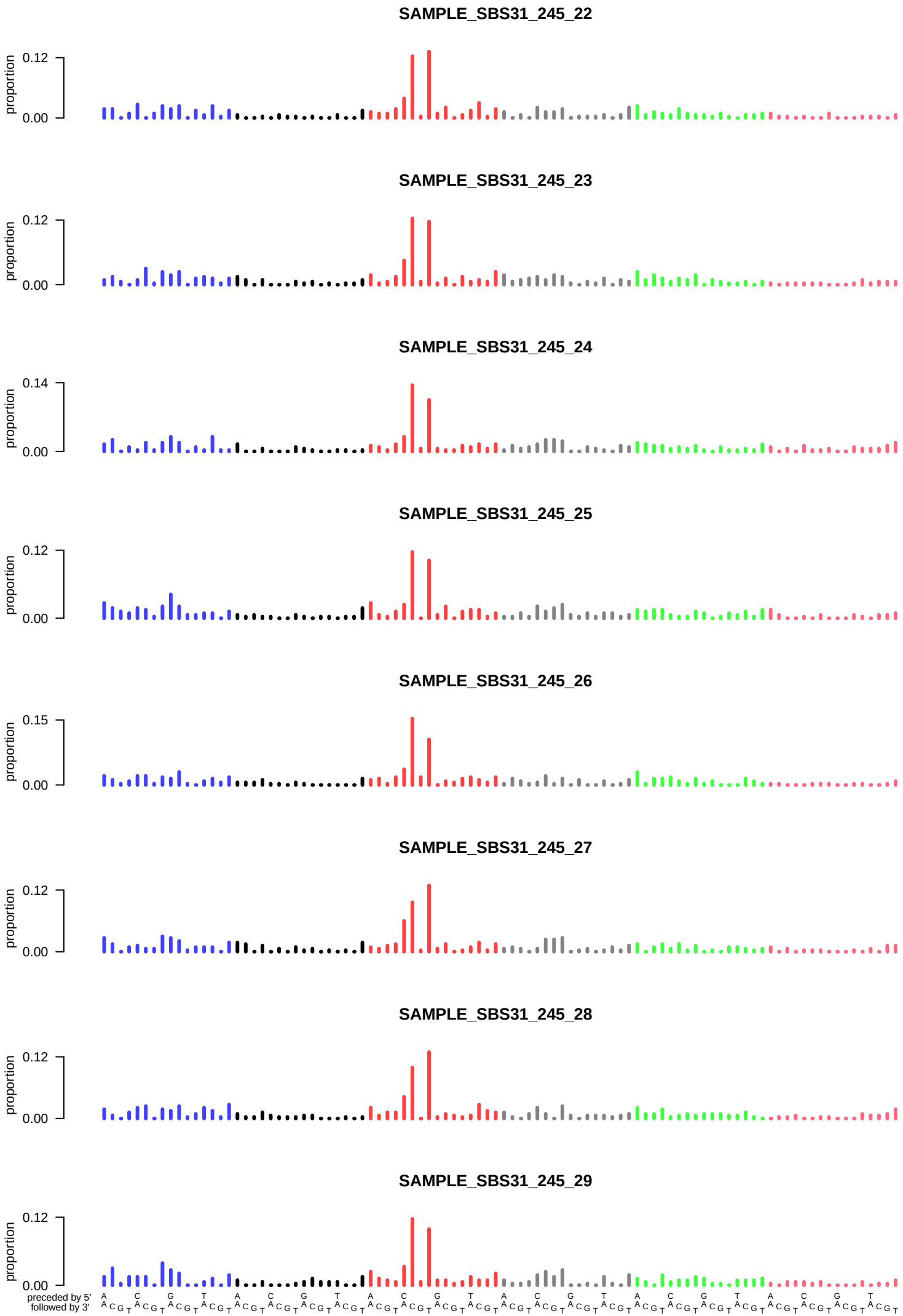
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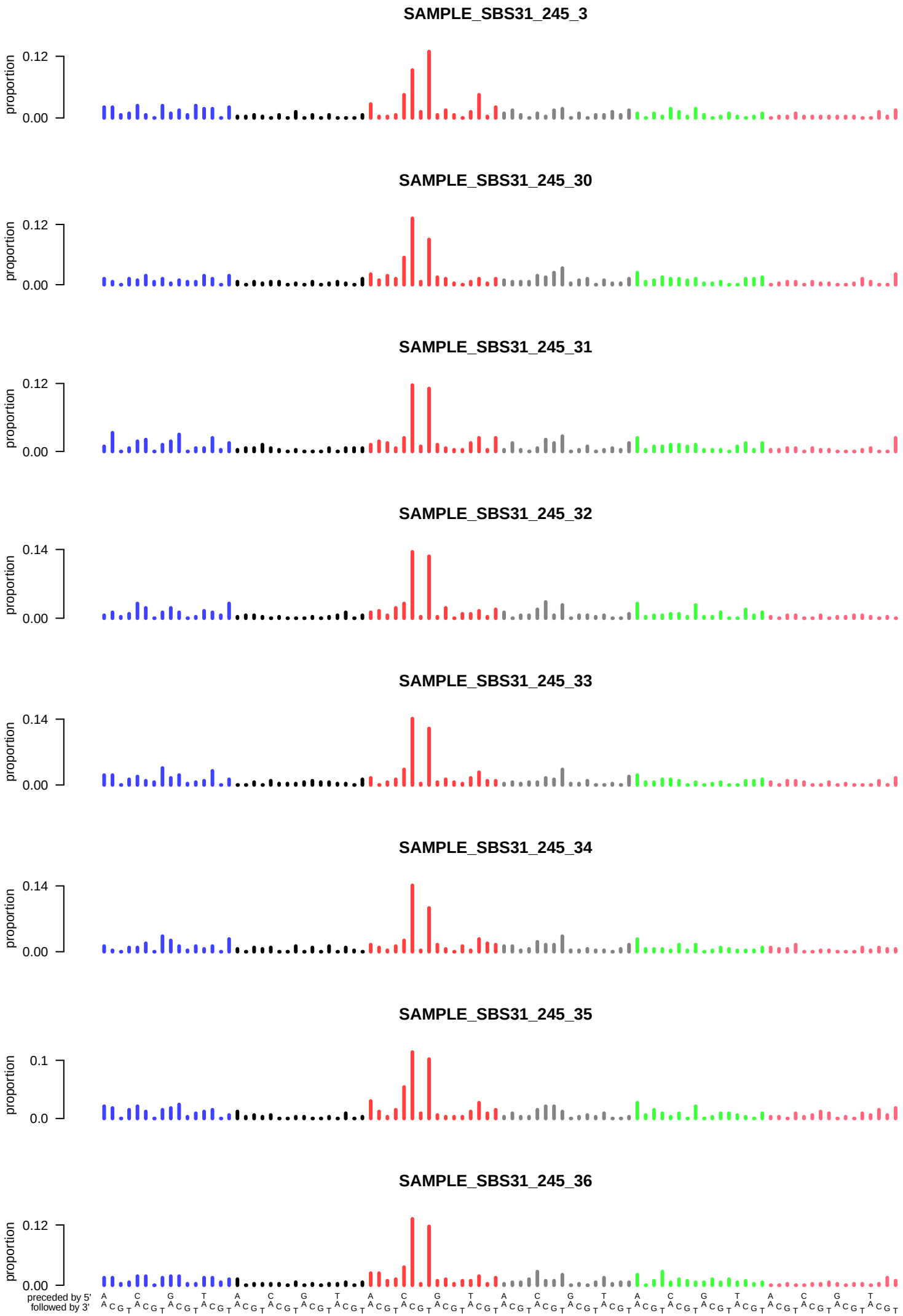
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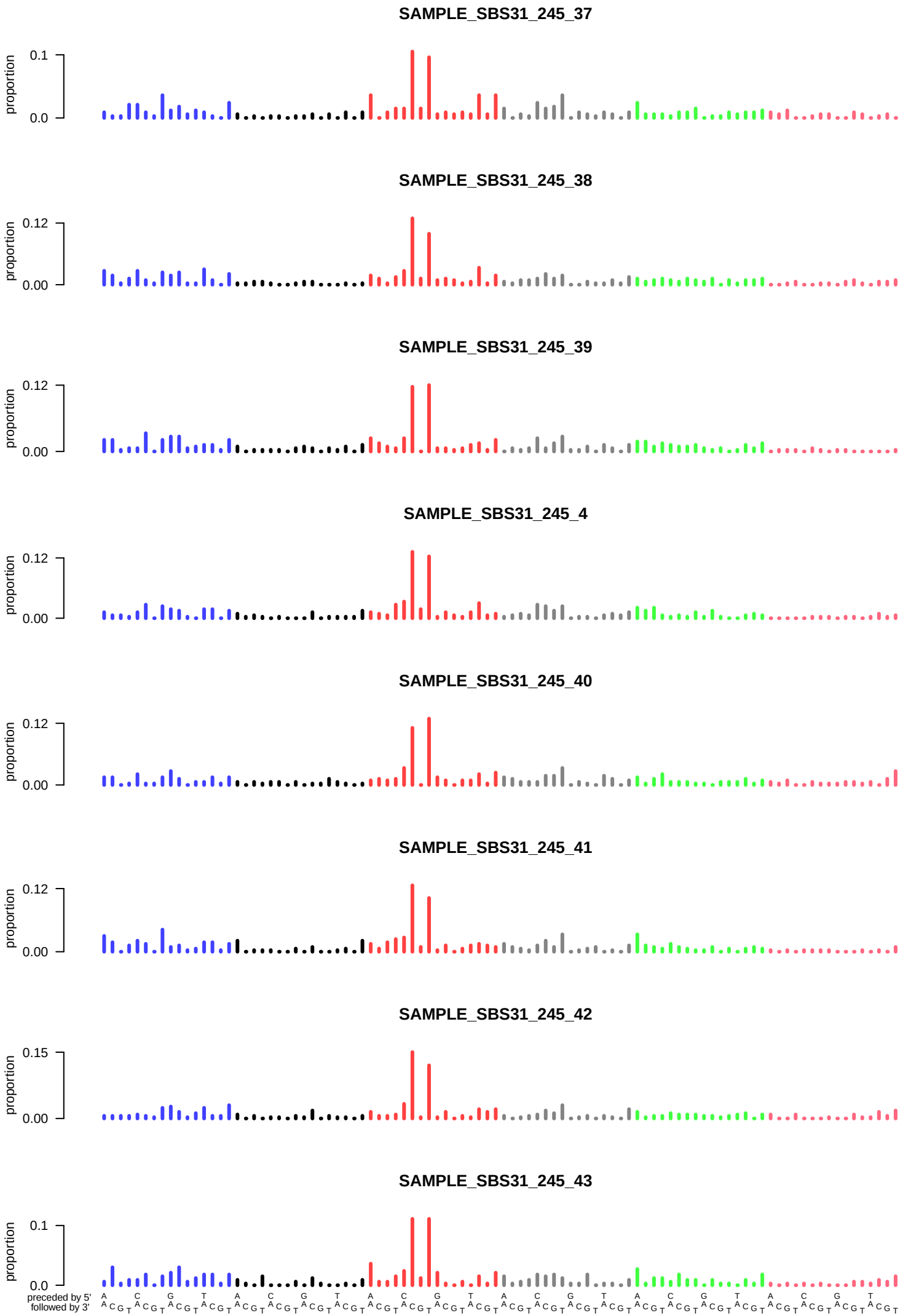
followed by 3'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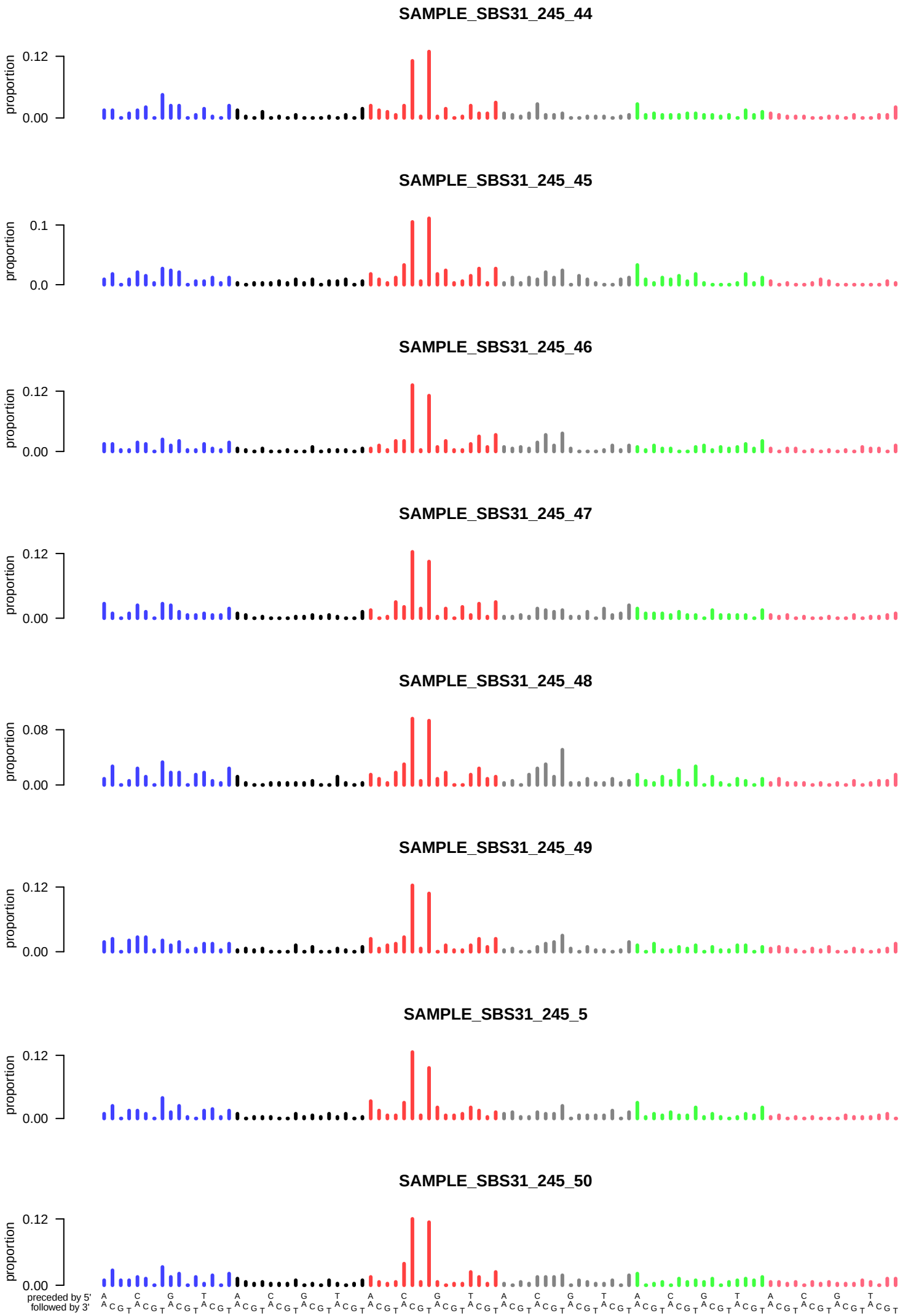
followed by 3'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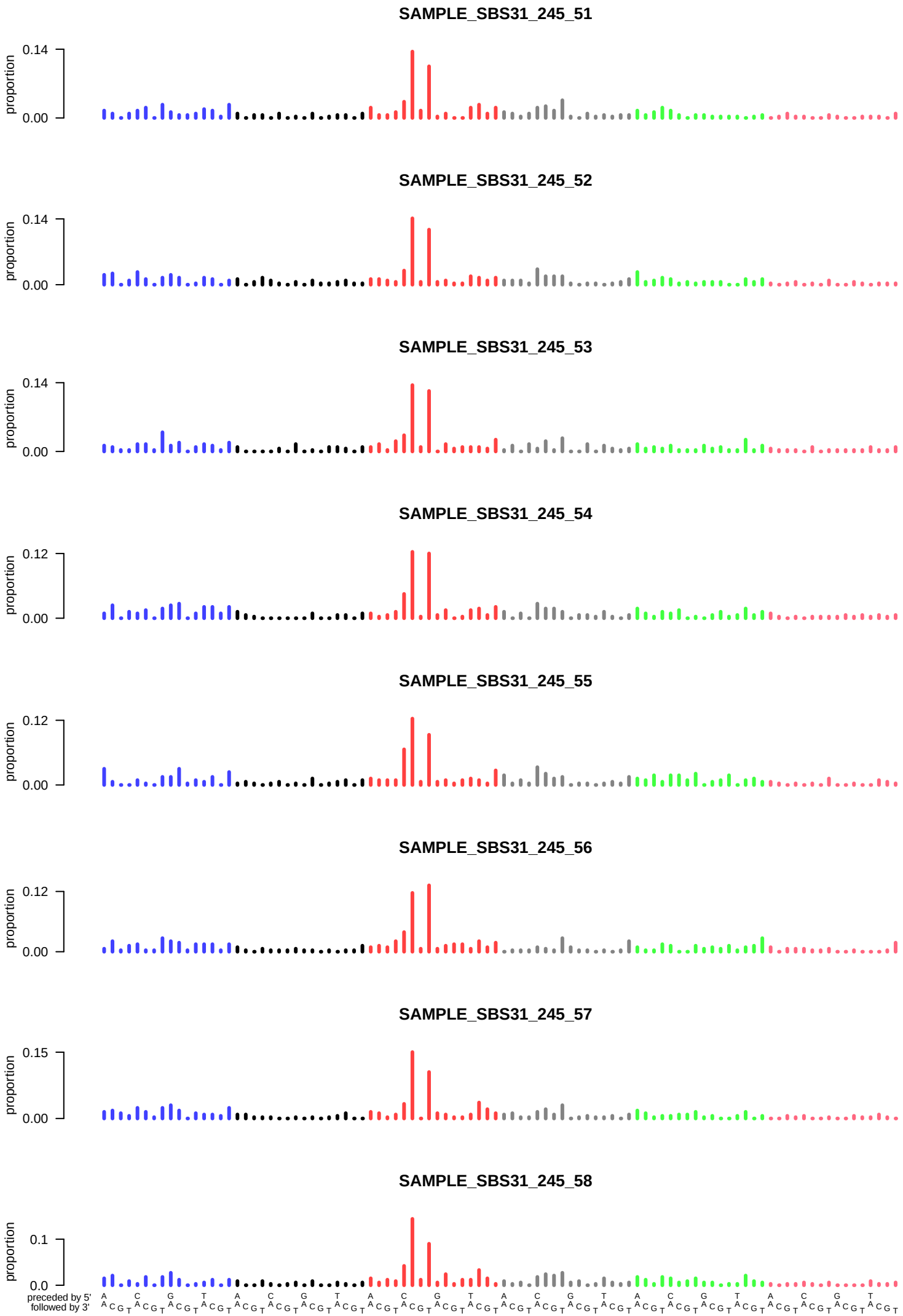
followed by 3'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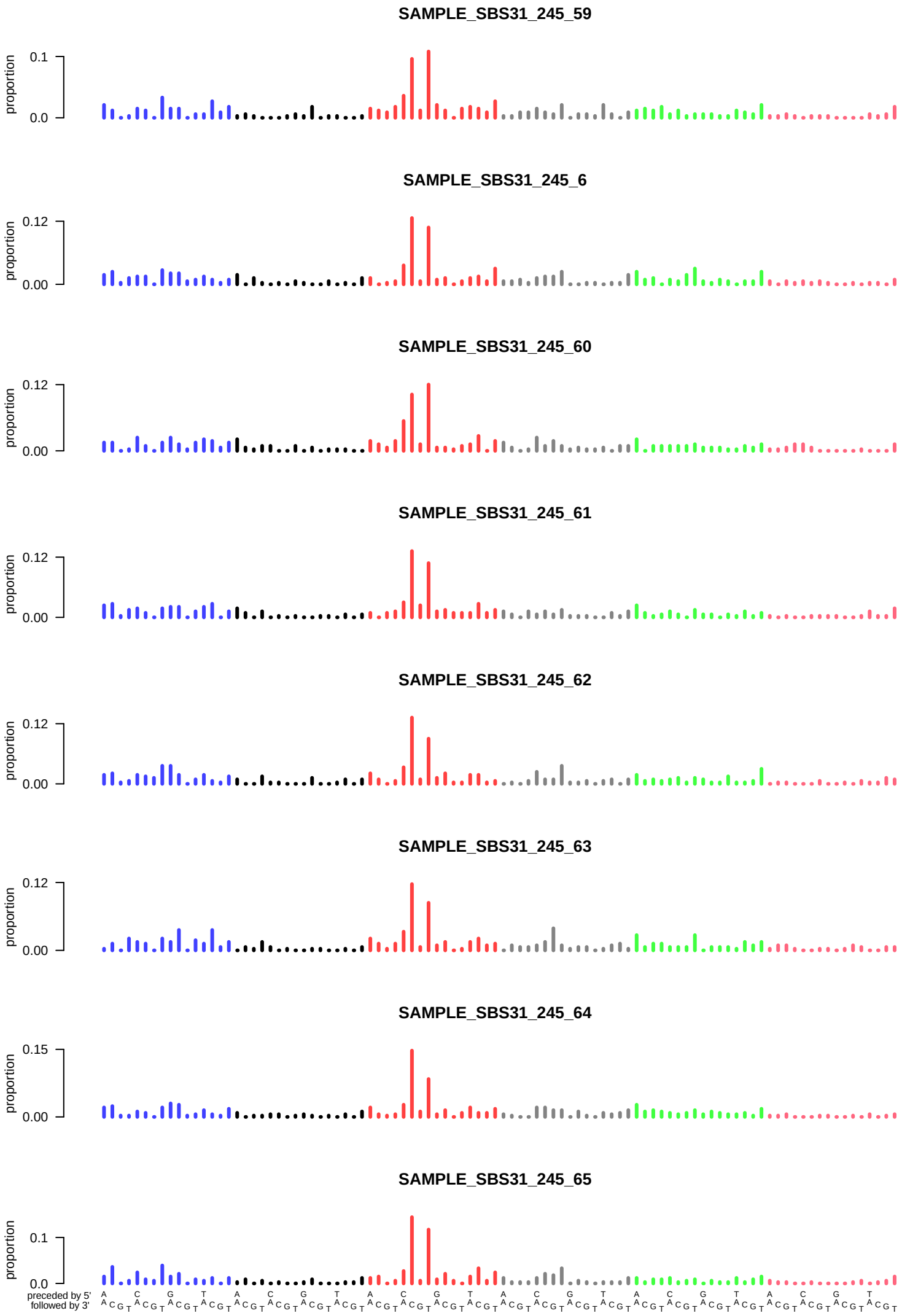
followed by 3'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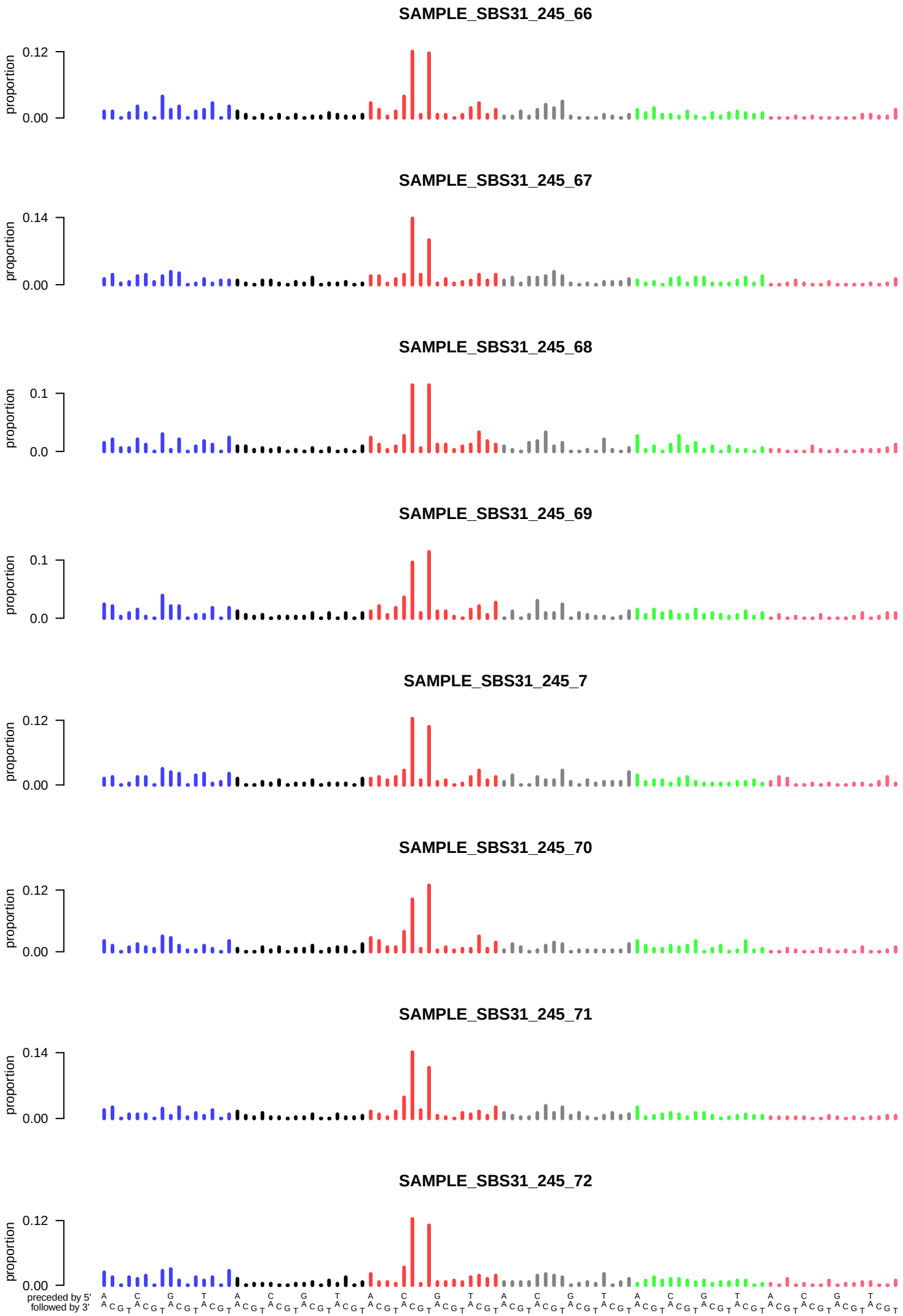
followed by 3'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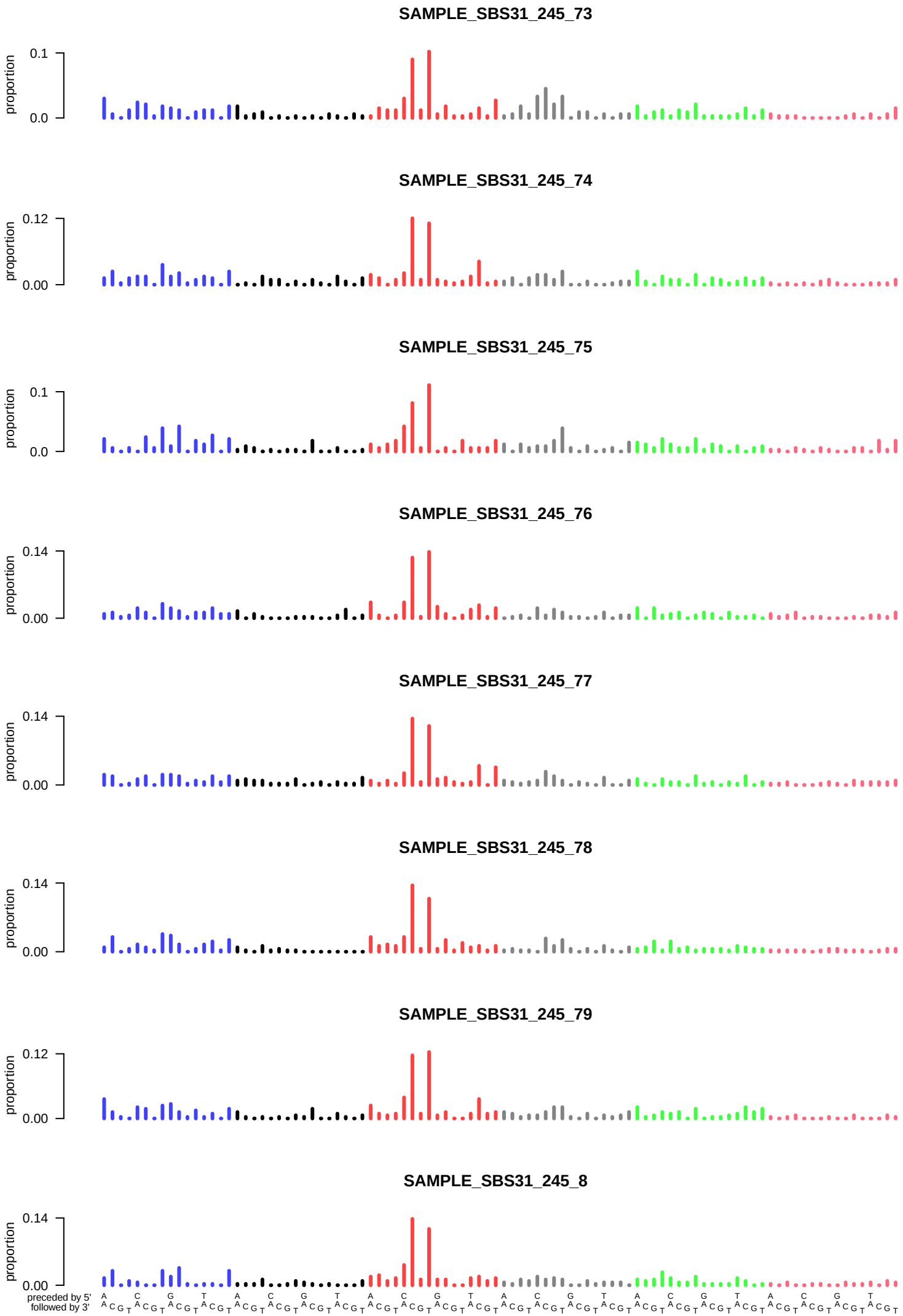
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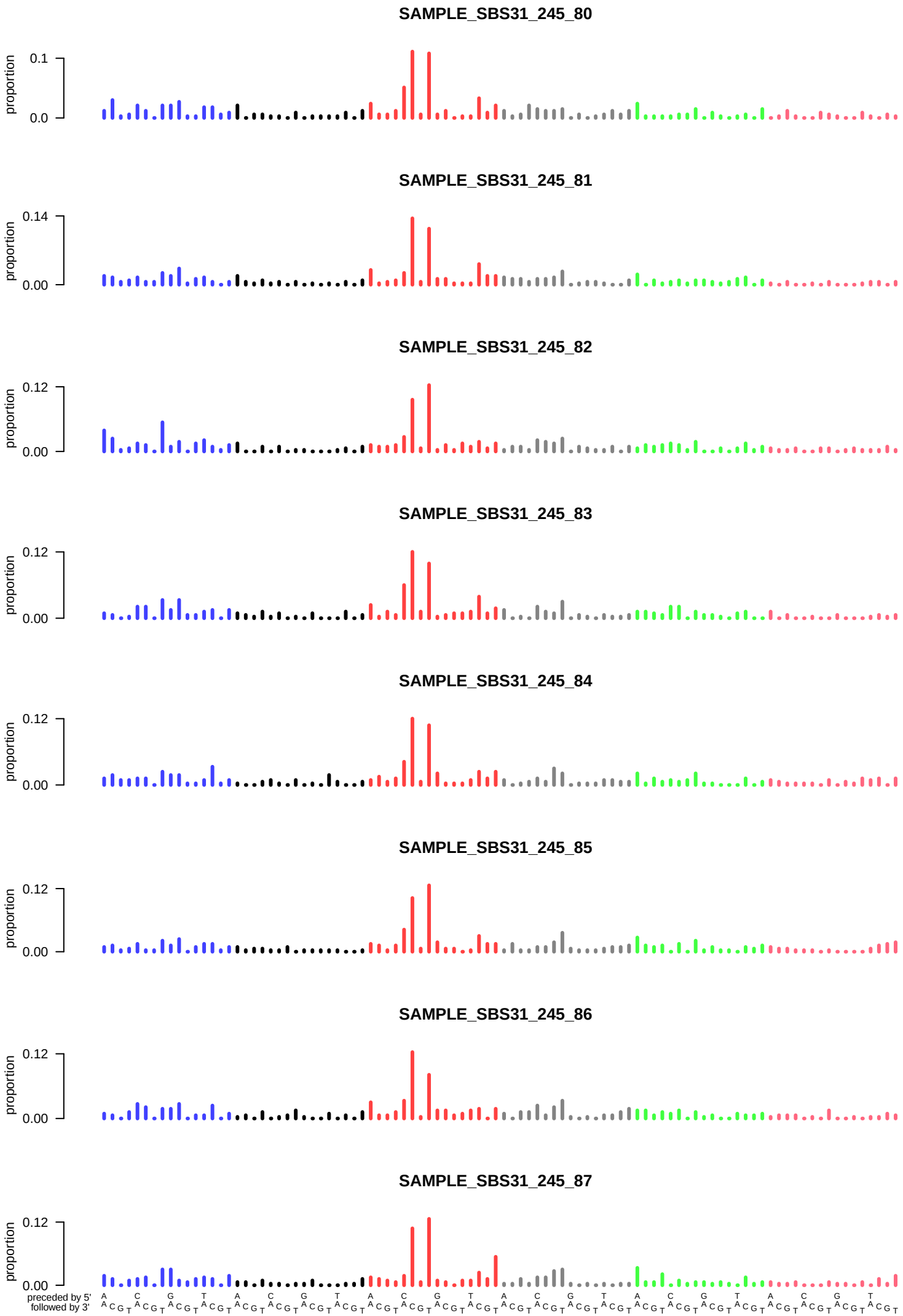
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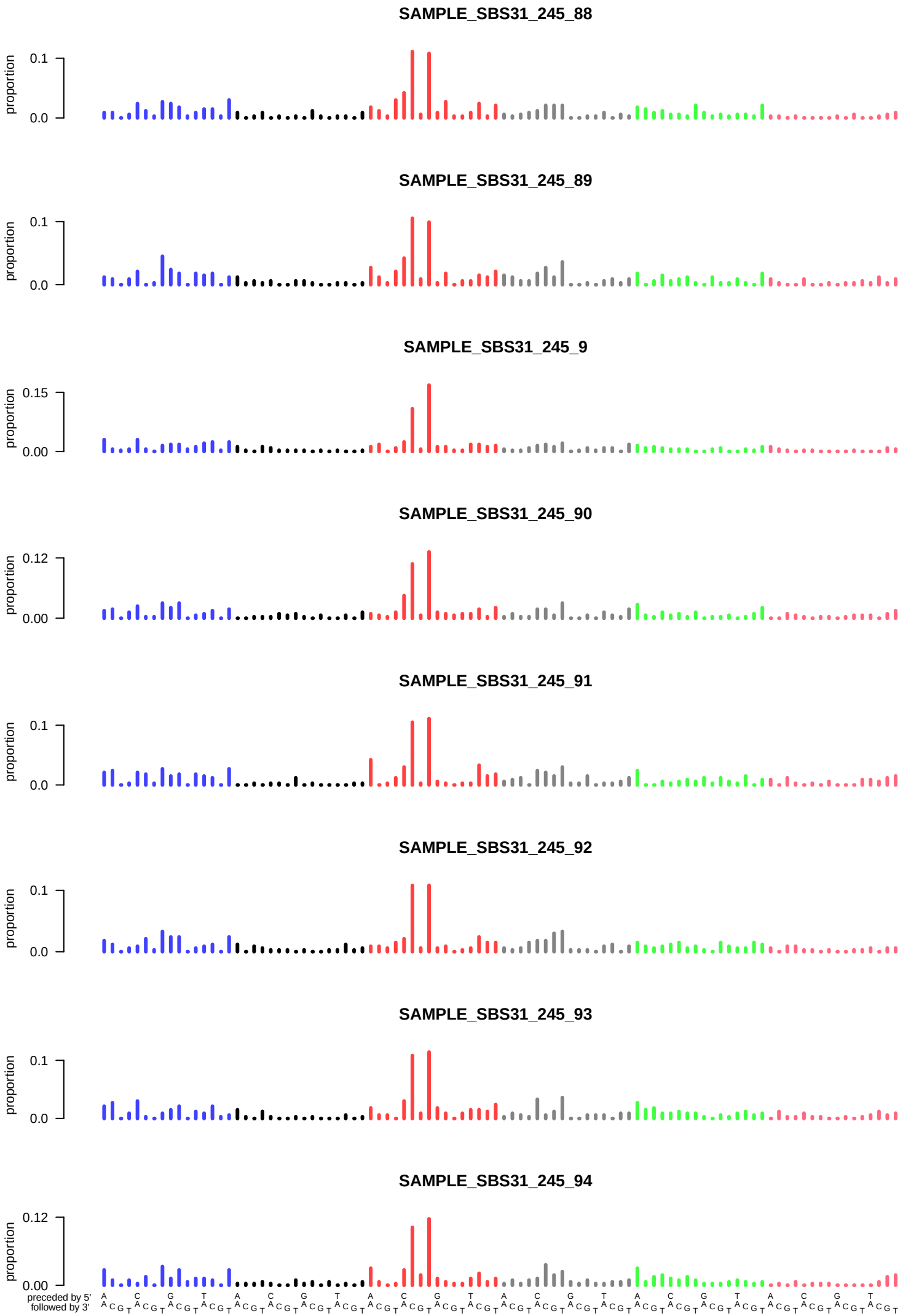
followed by 3'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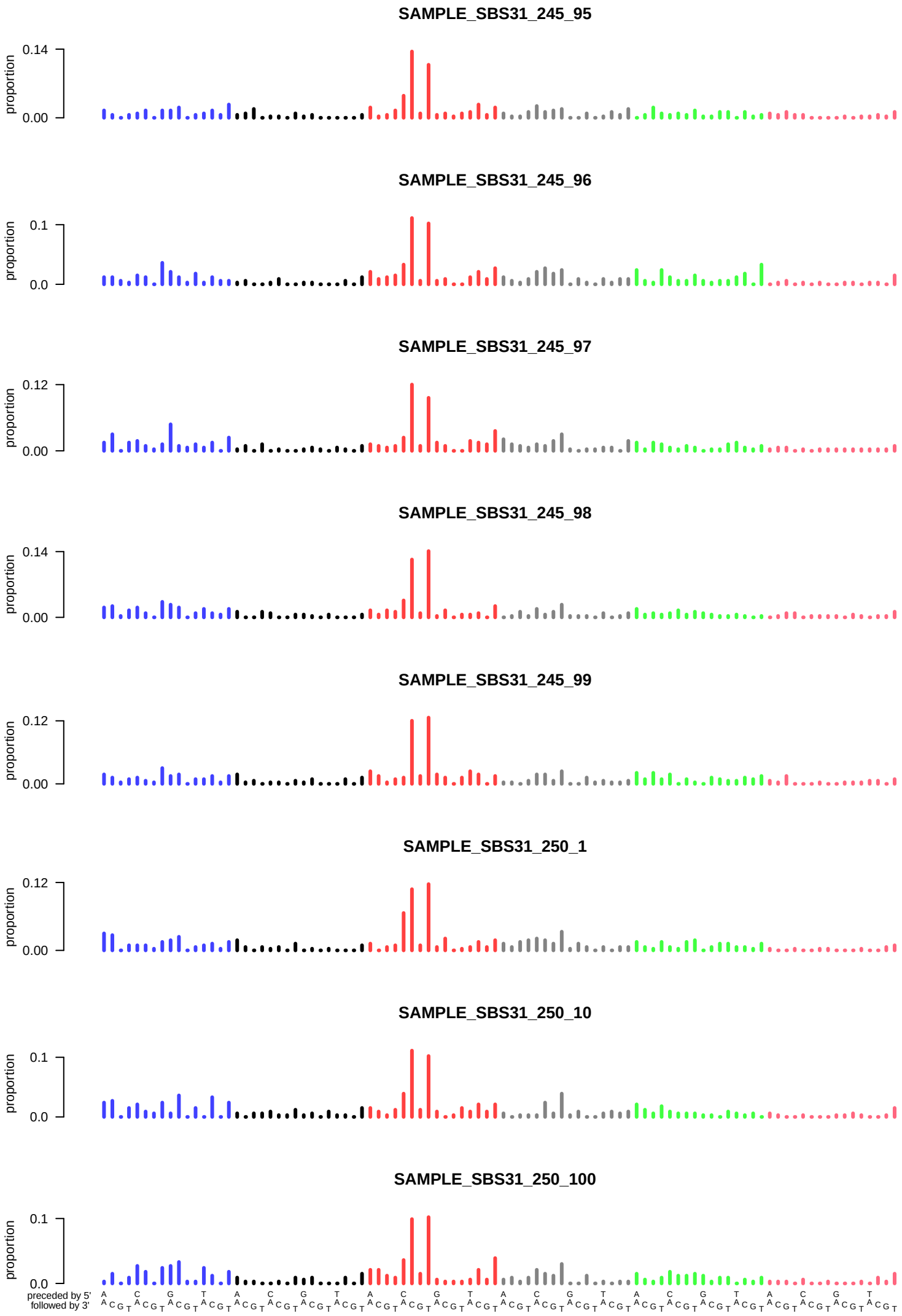
followed by 3'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SAMPLE_SBS31_250_10
proportion
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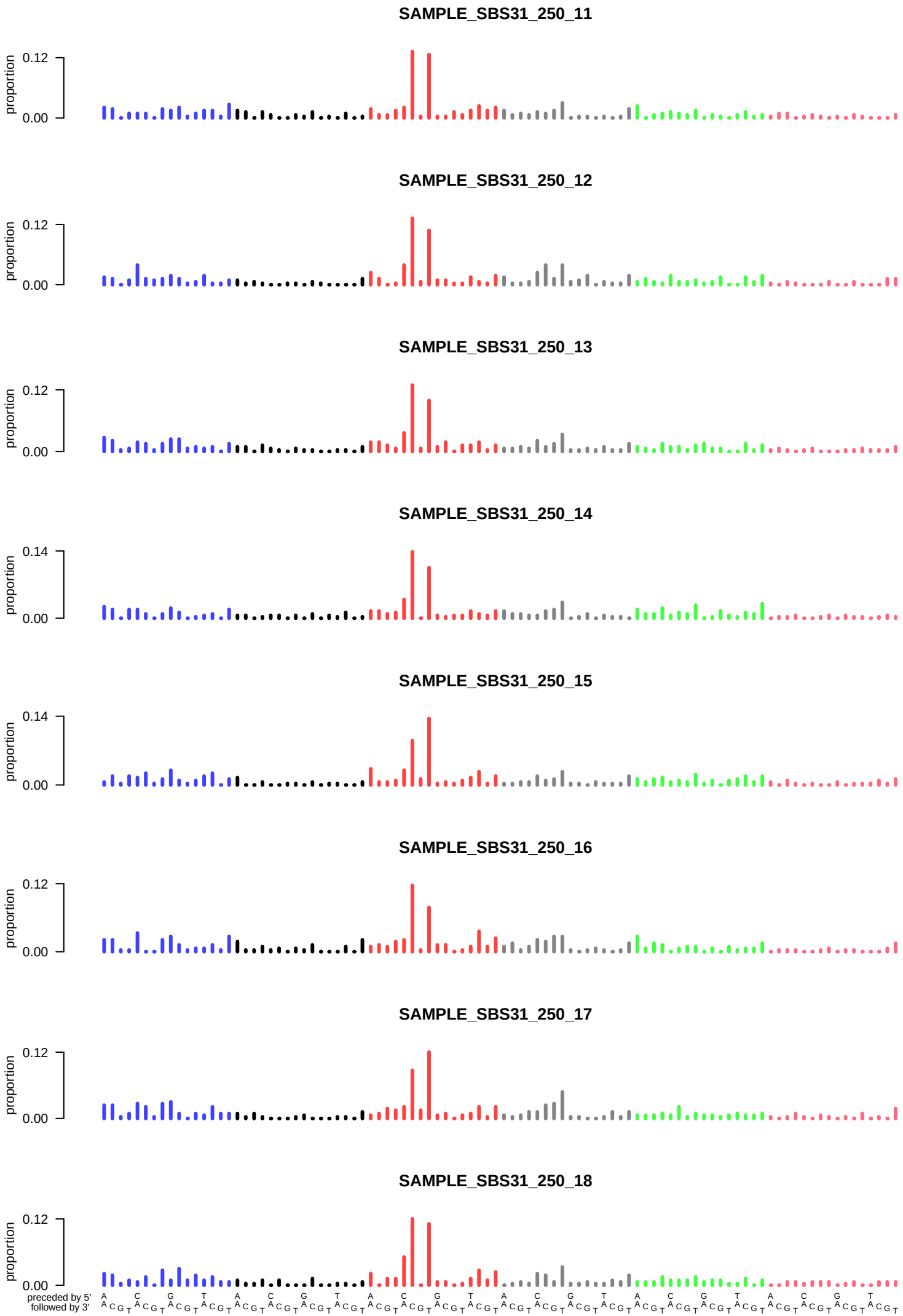
preceded by 5'
followed by 3'
A C G T A C G T A C G T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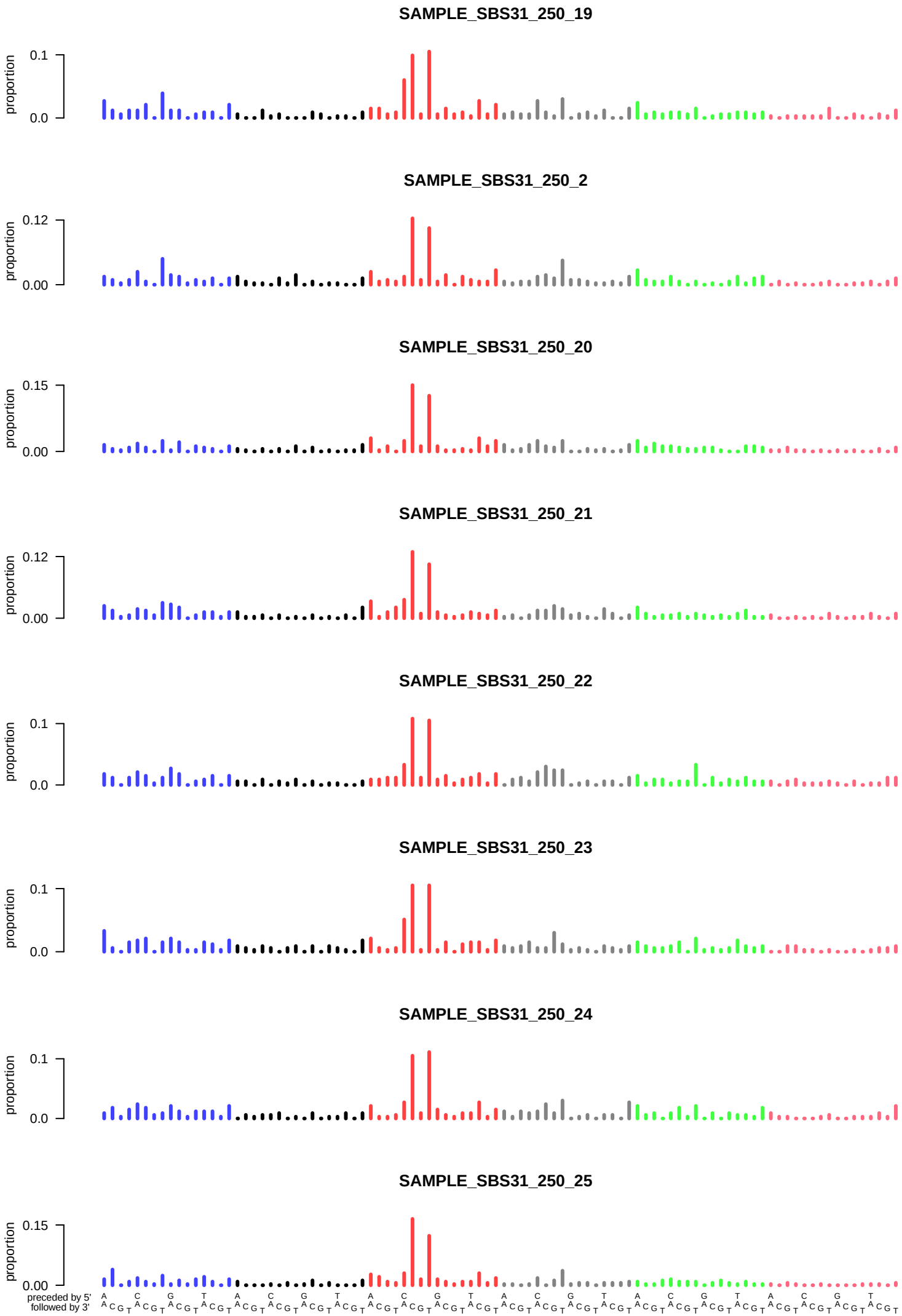
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SAMPLE_SBS31_250_24
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SAMPLE_SBS31_250_25
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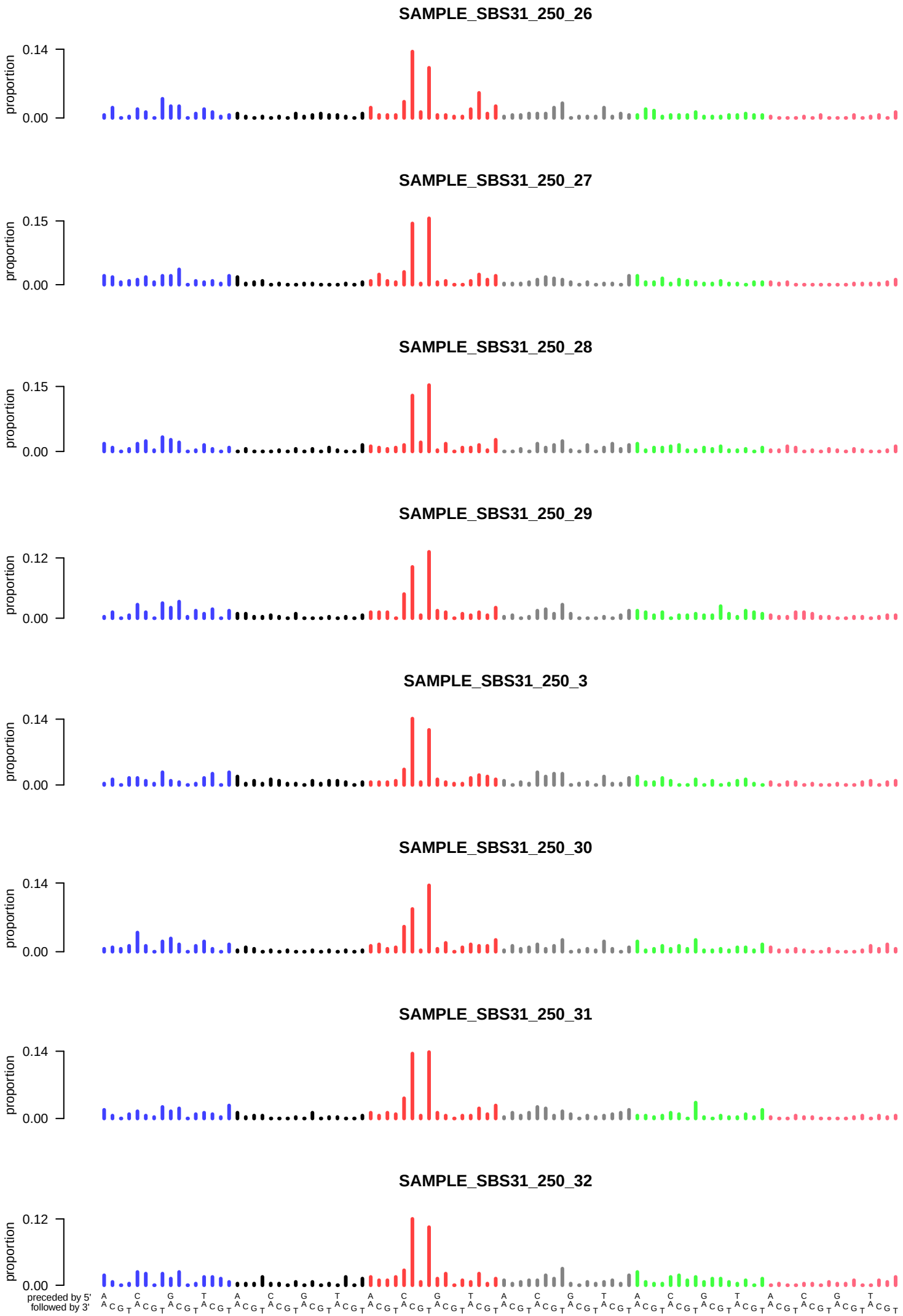
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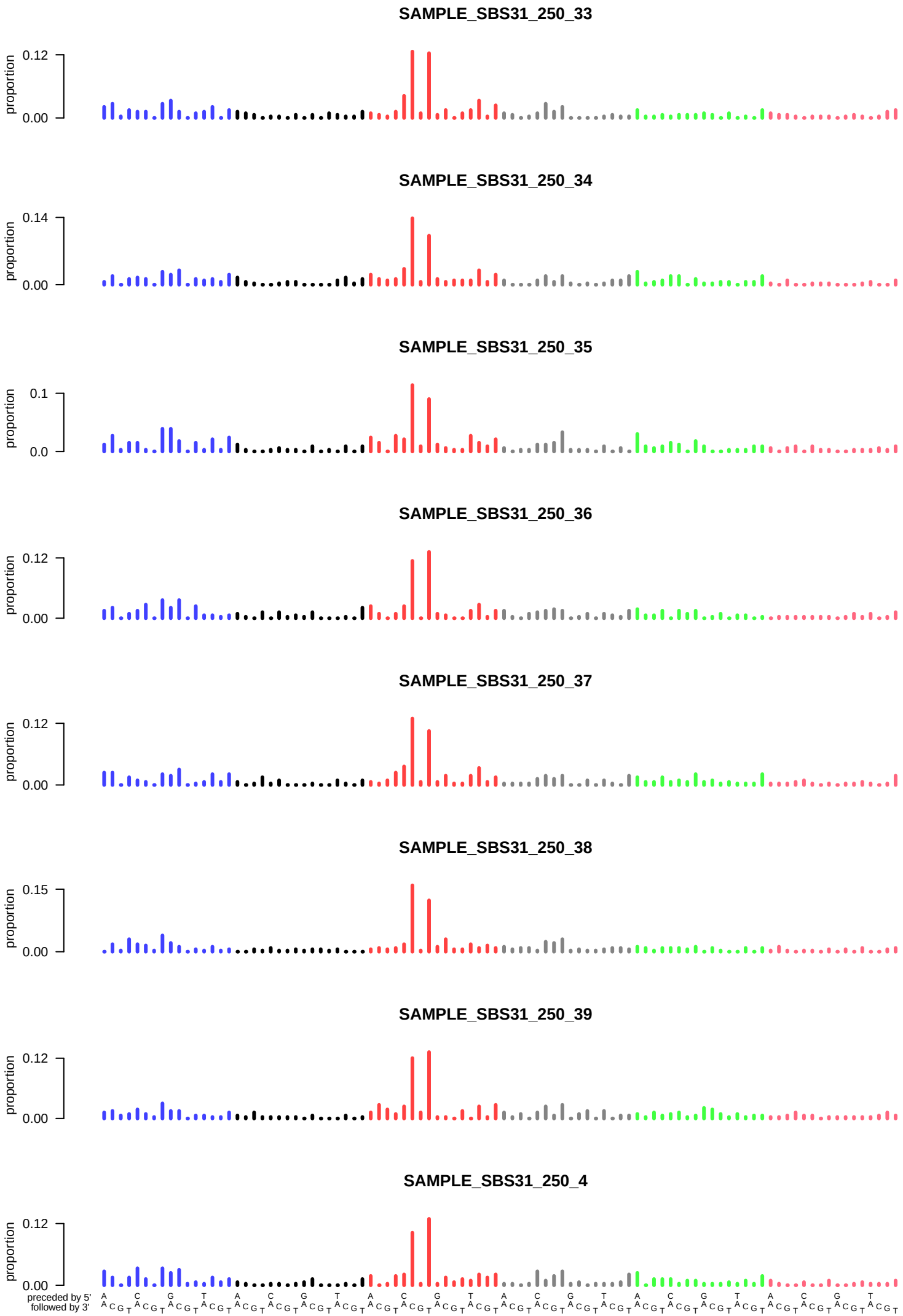
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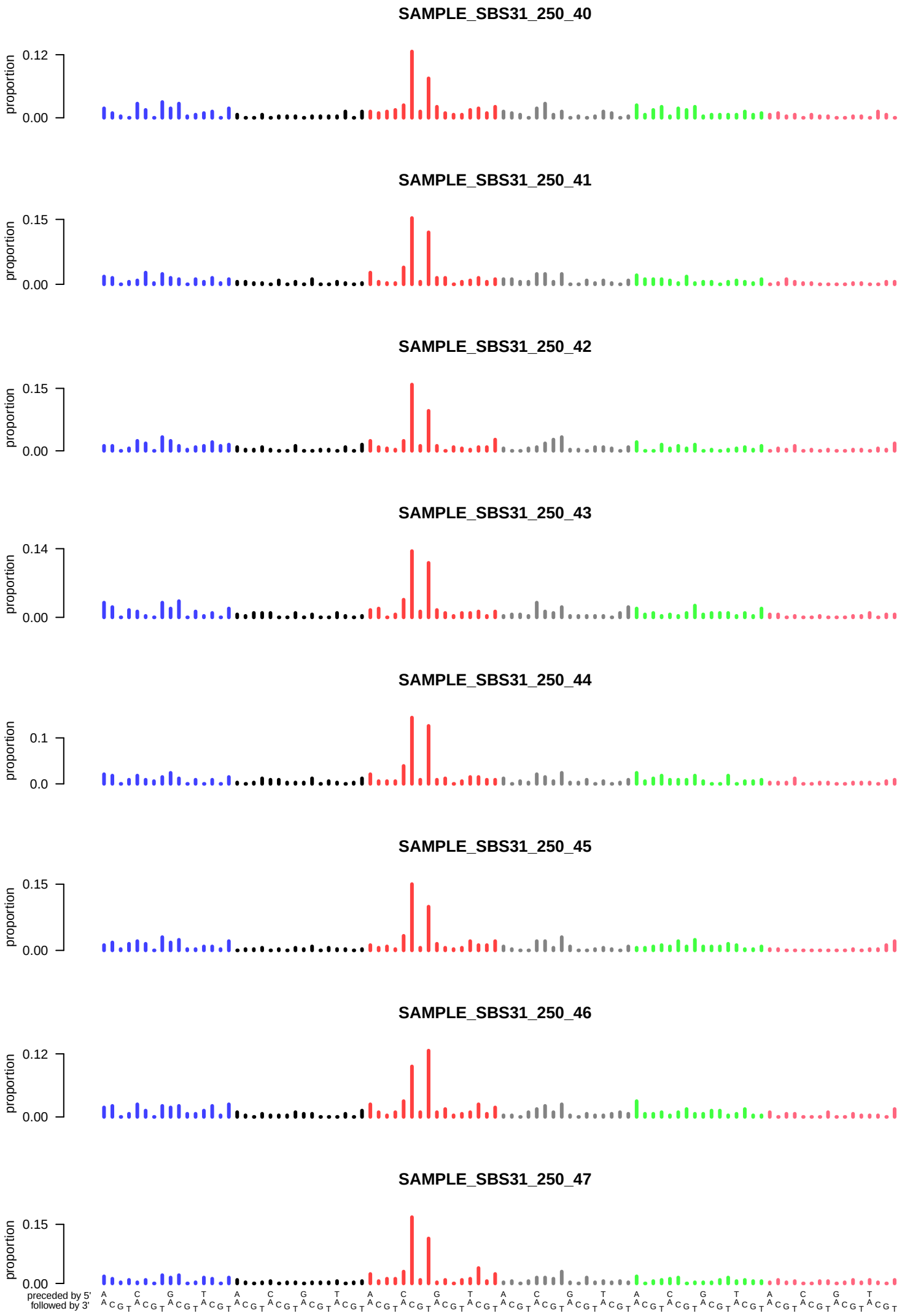
followed by 3'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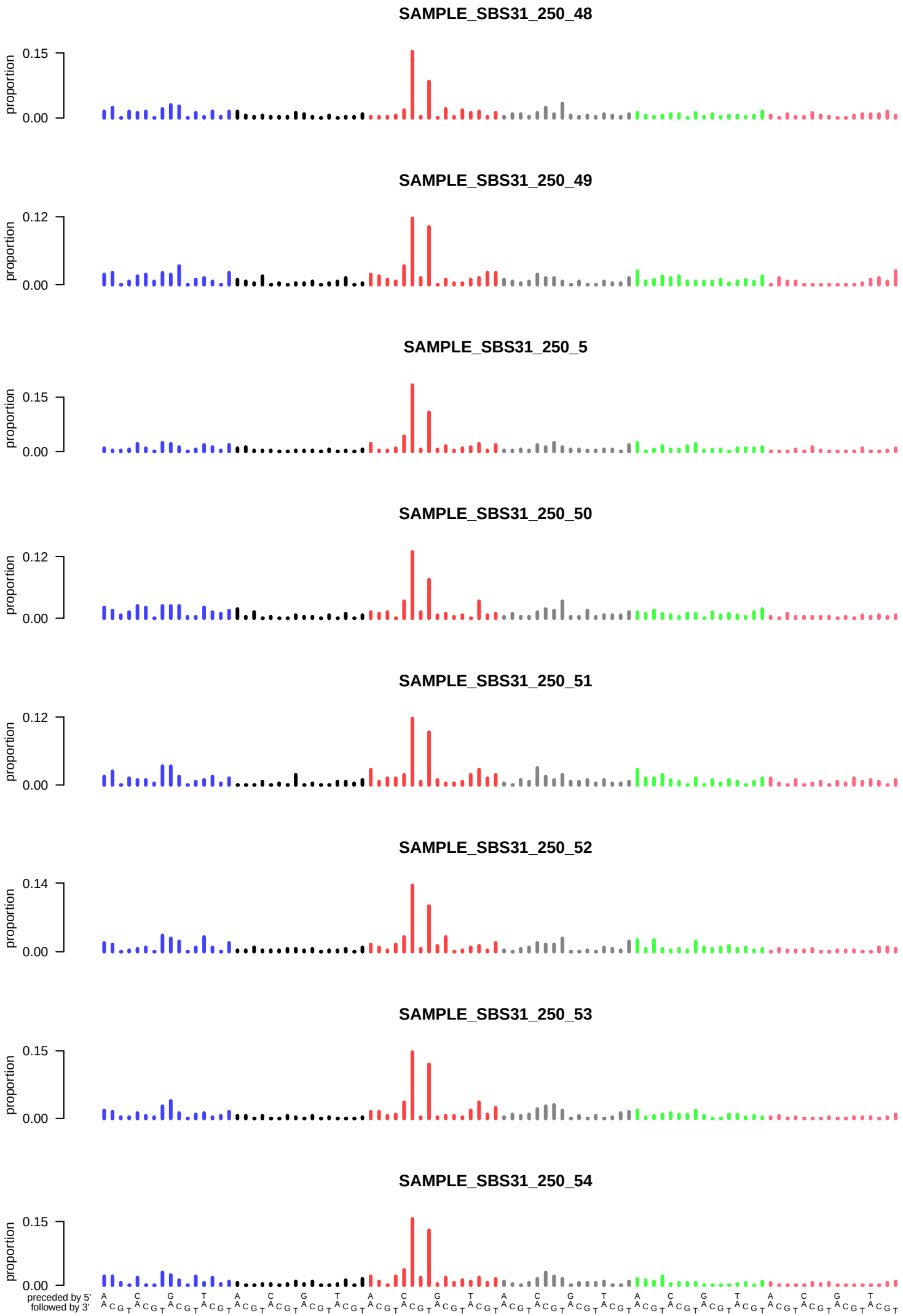
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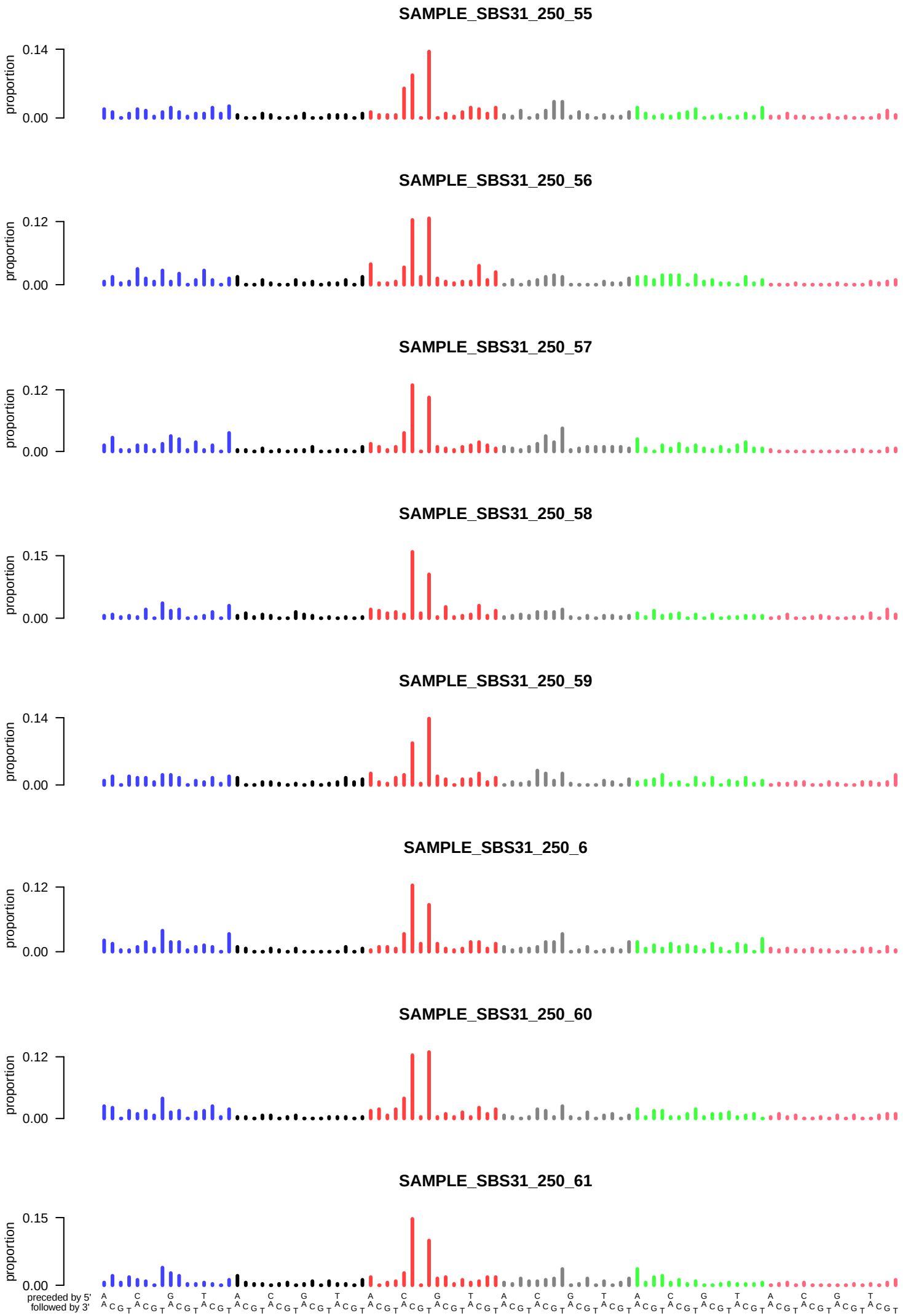
A C G T A C G T A C G T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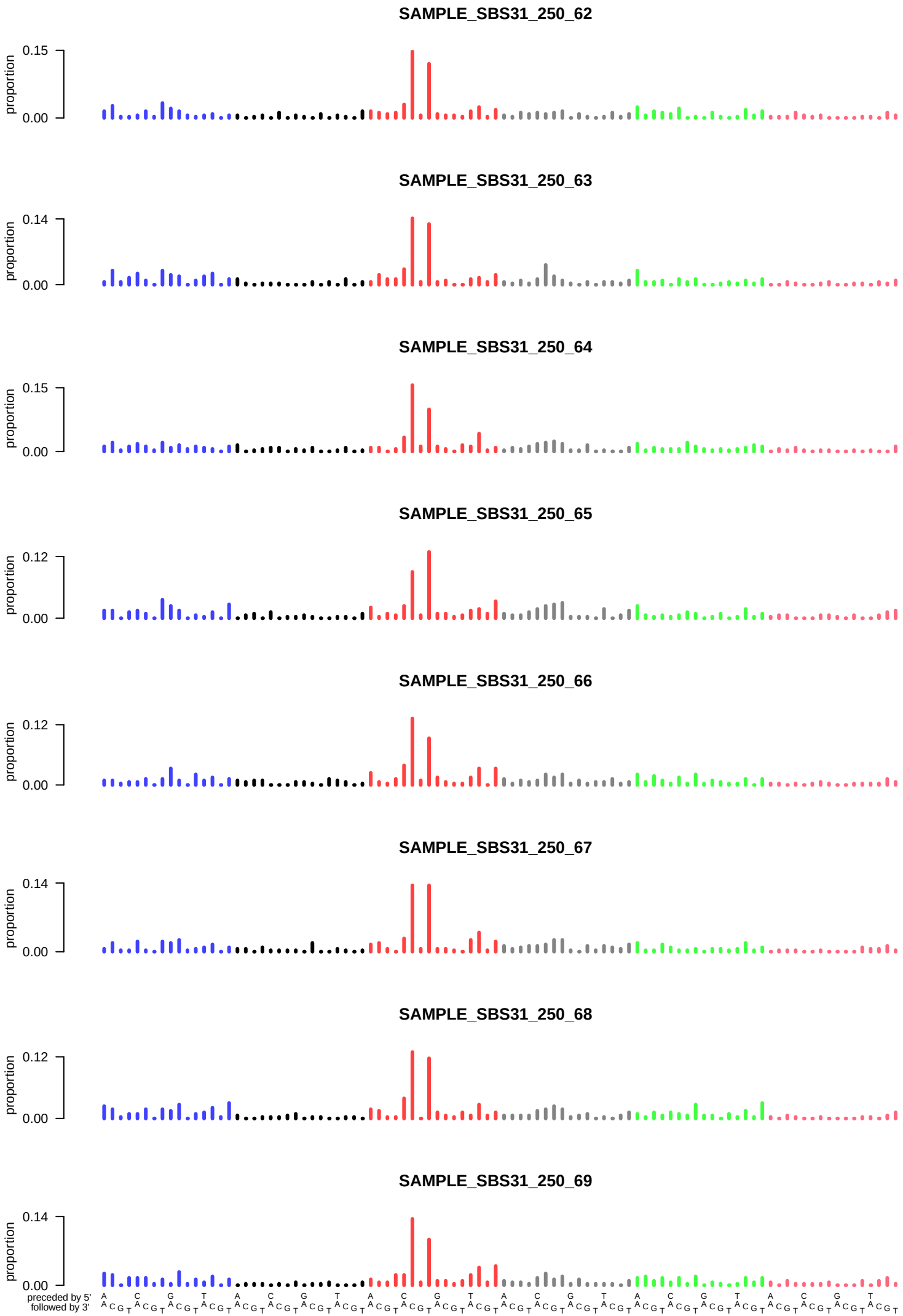
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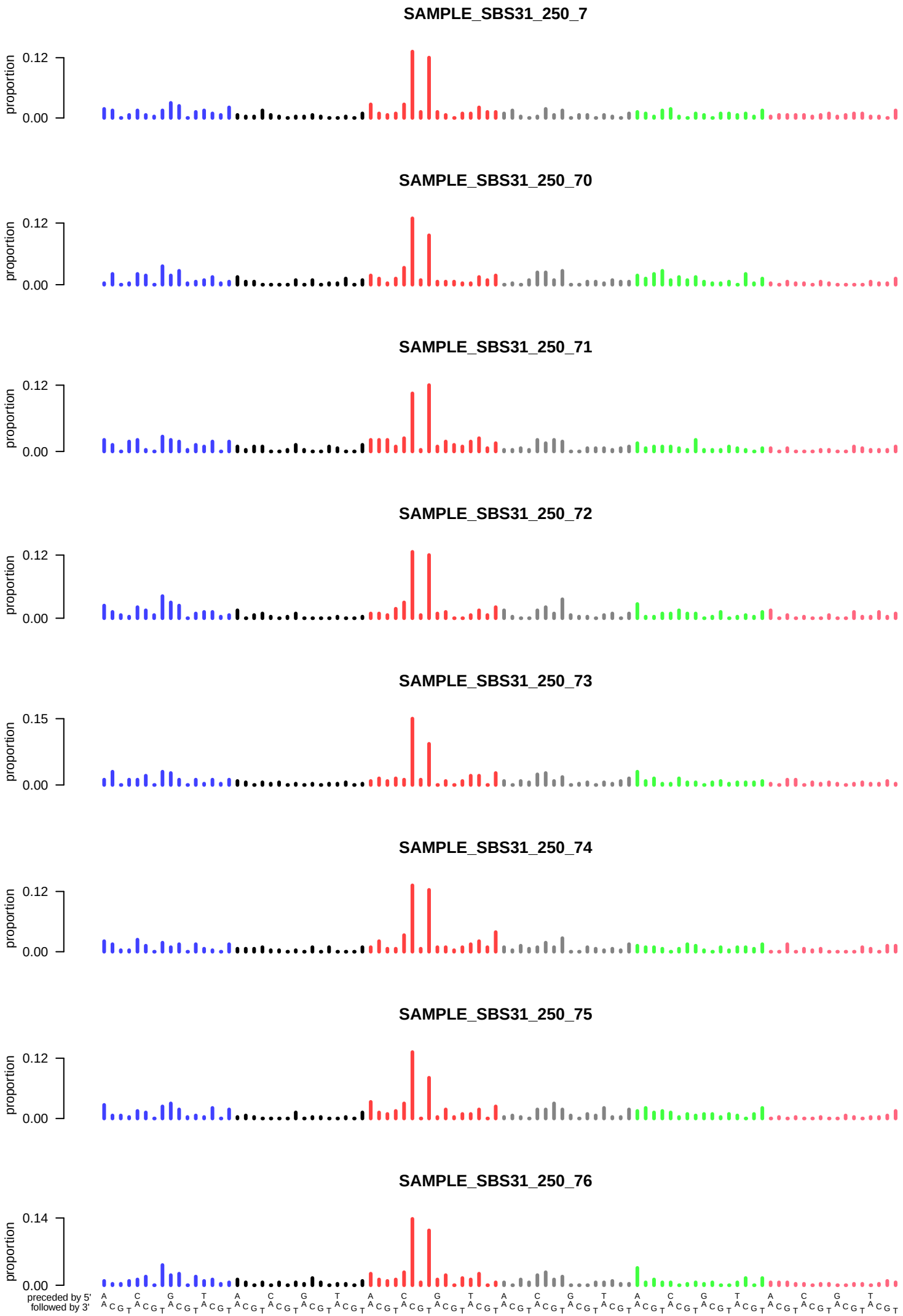
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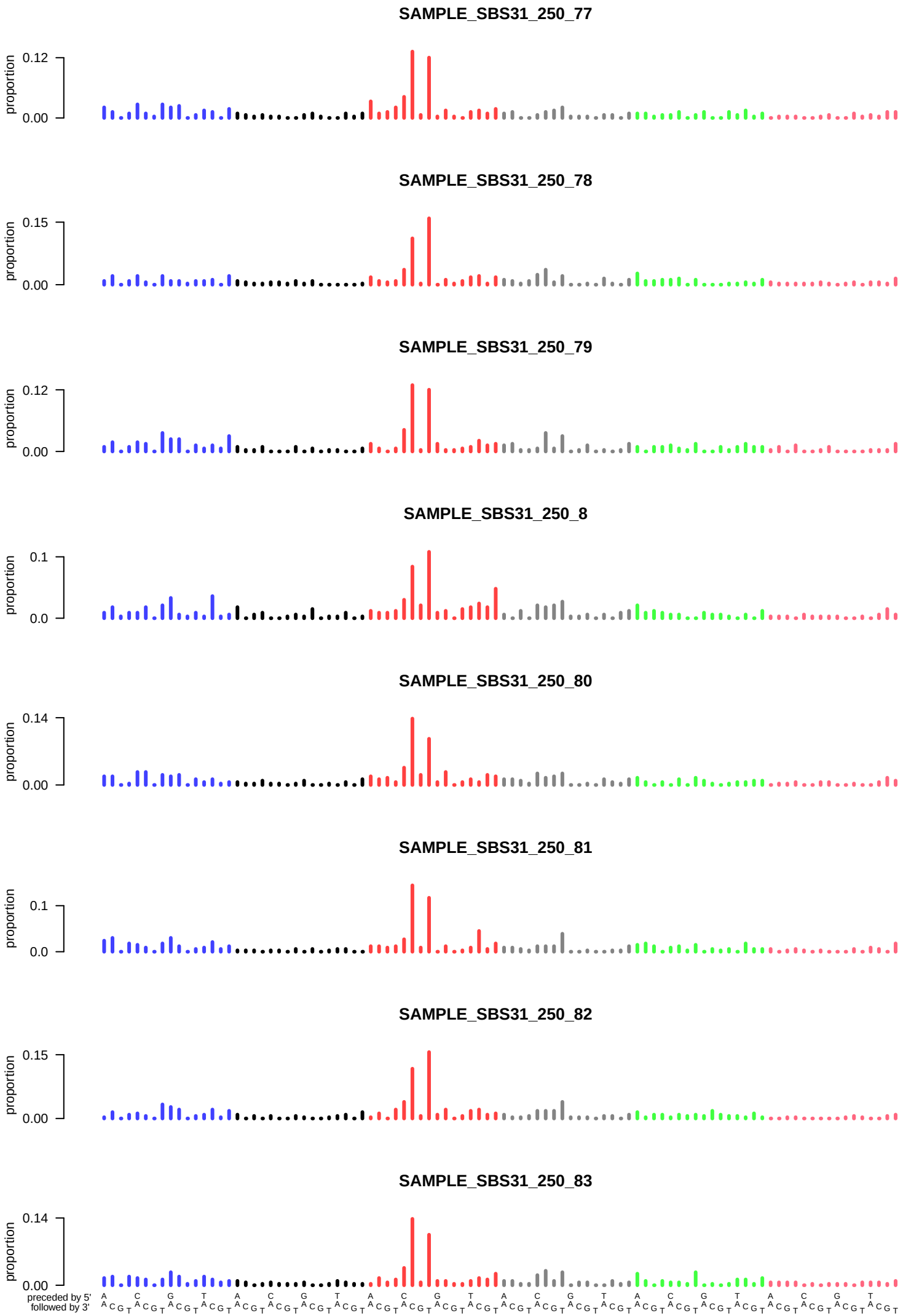
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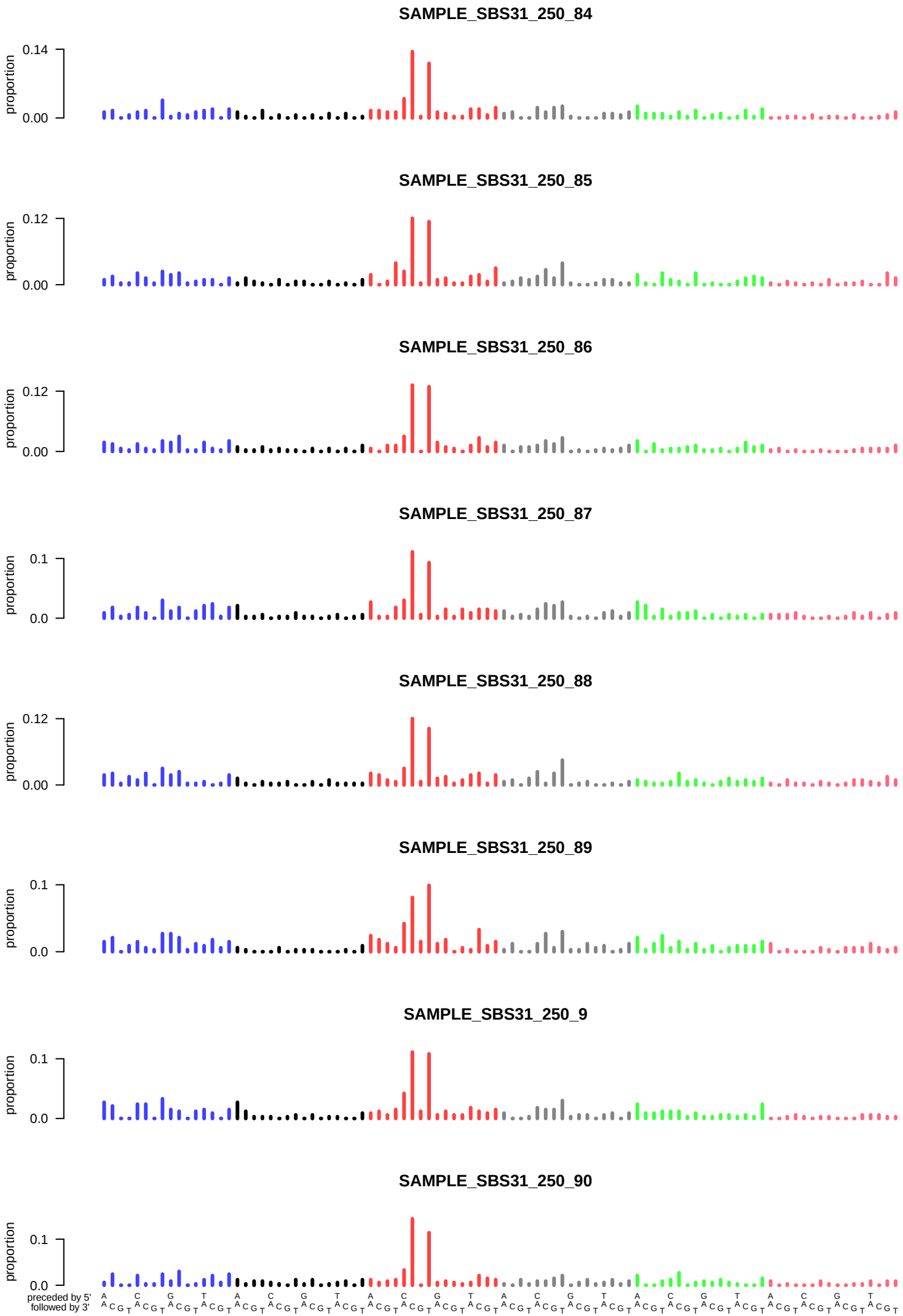
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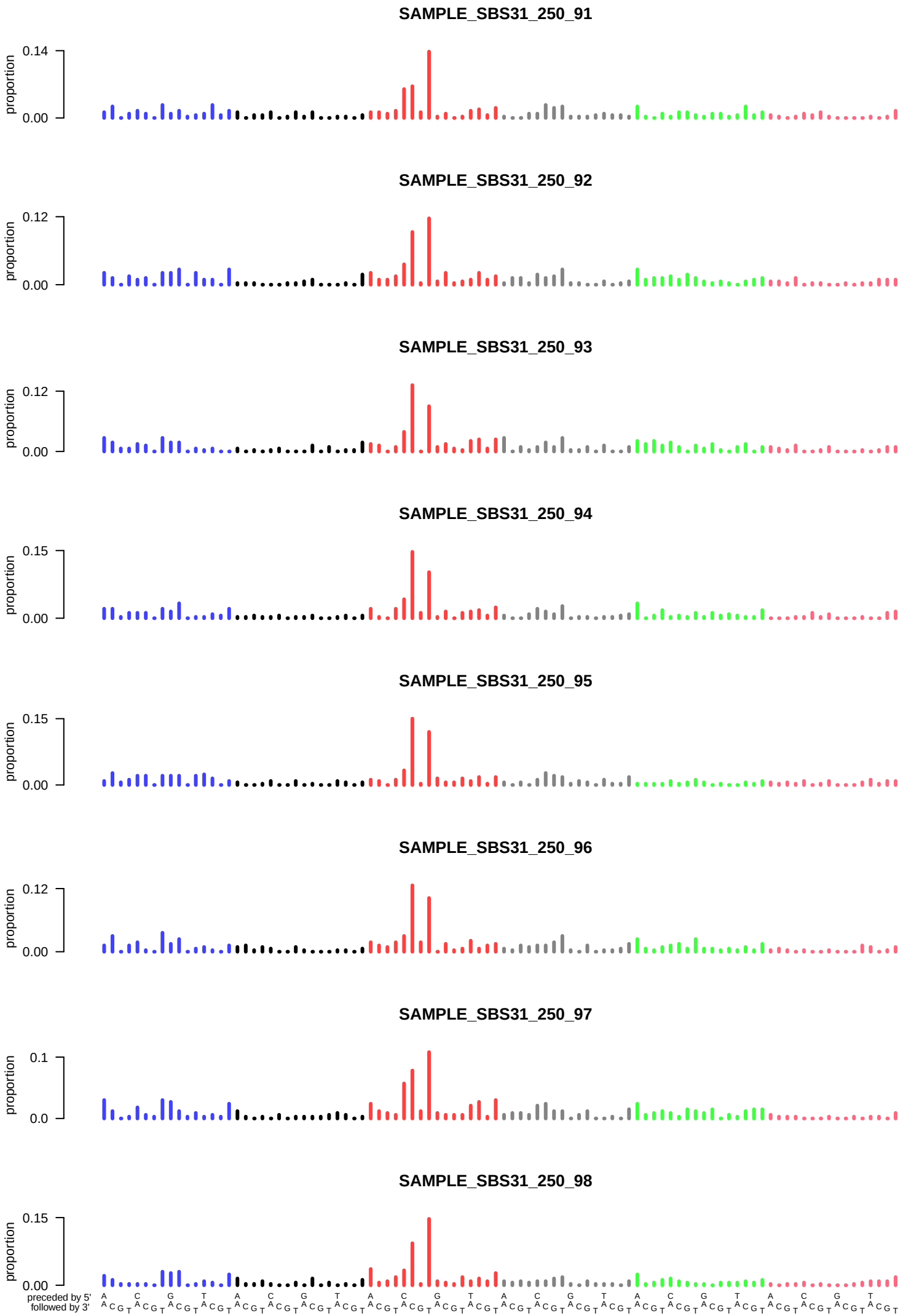
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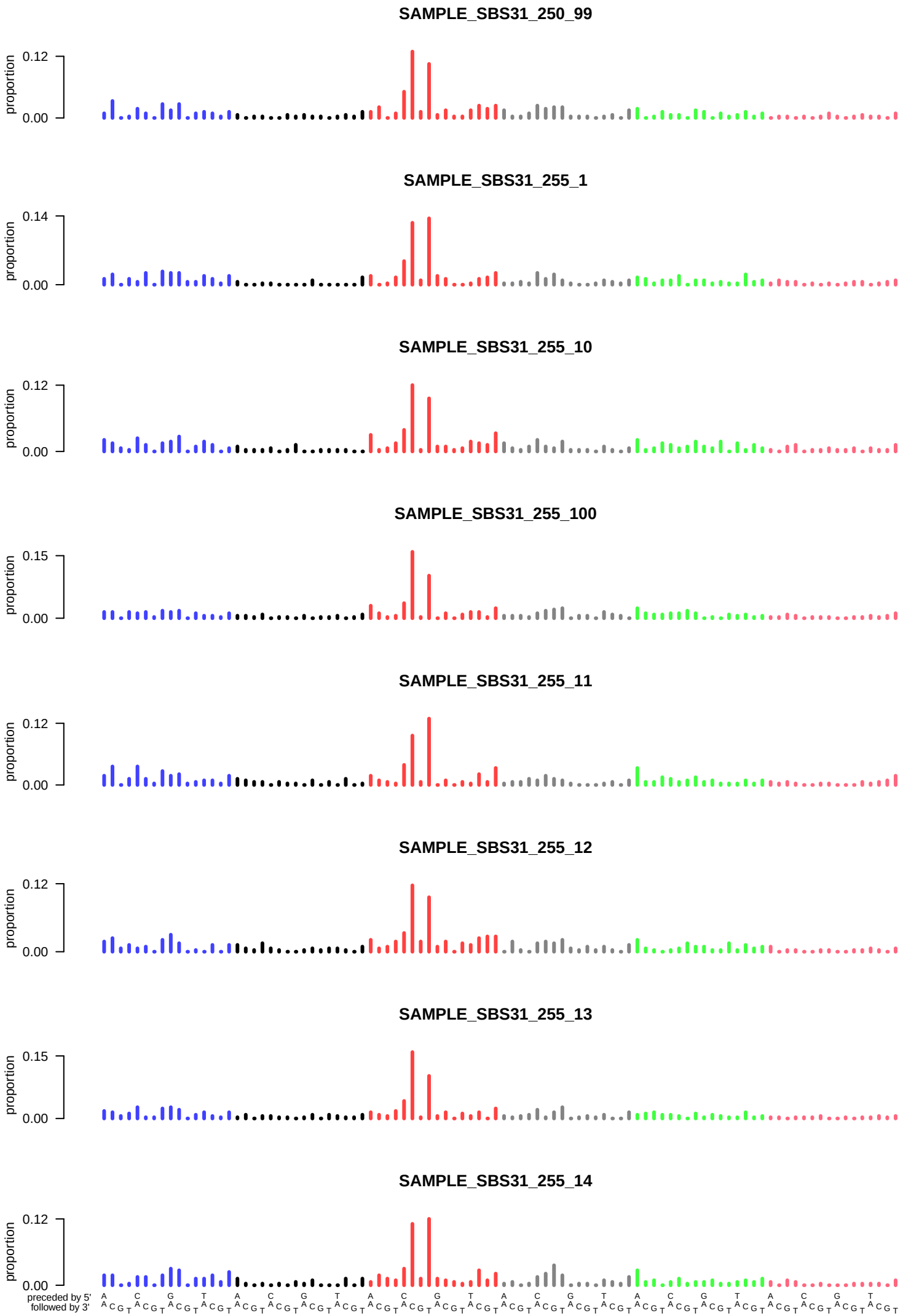
A C G T A C G T A C G T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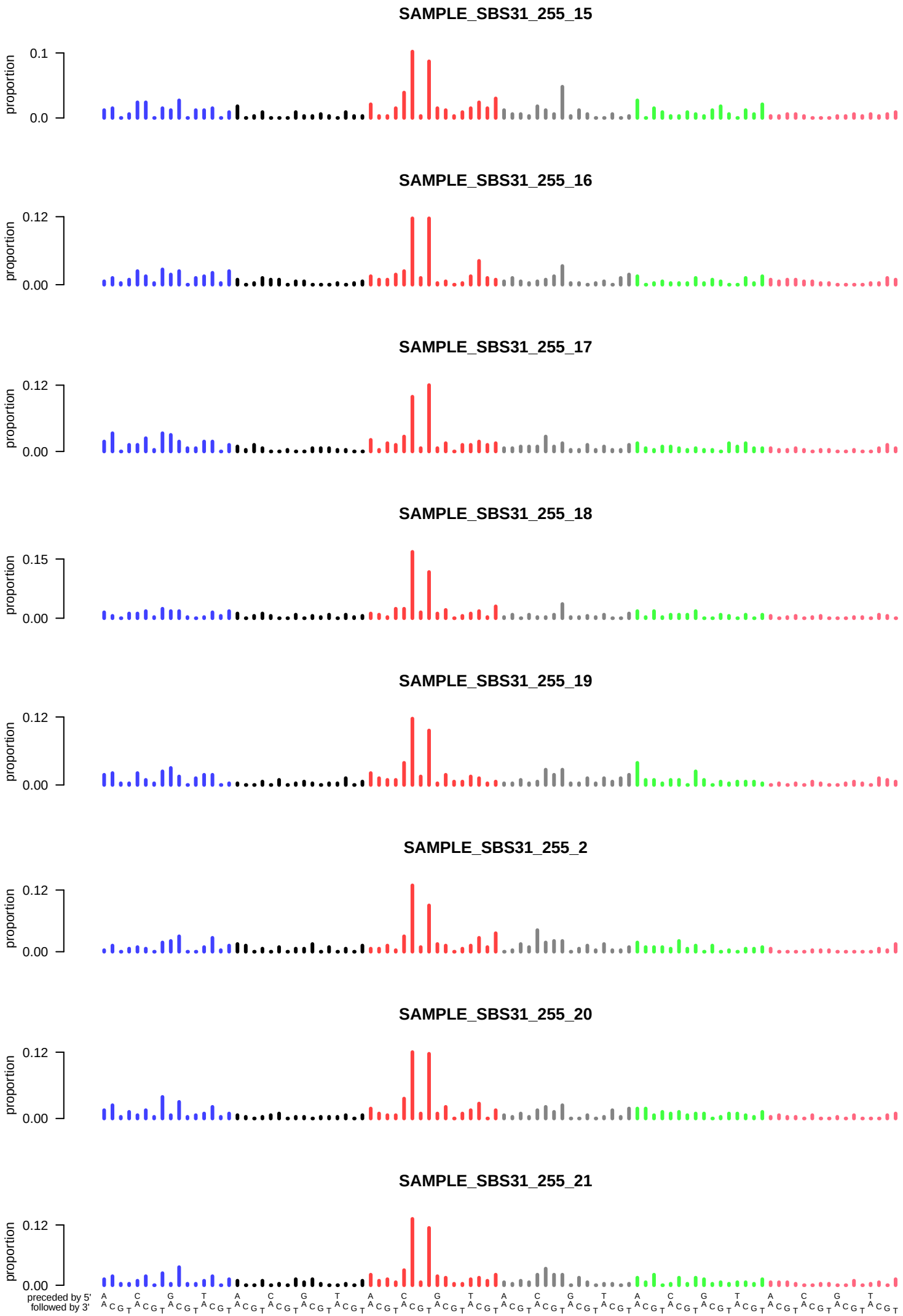
A C G T A C G T A C G T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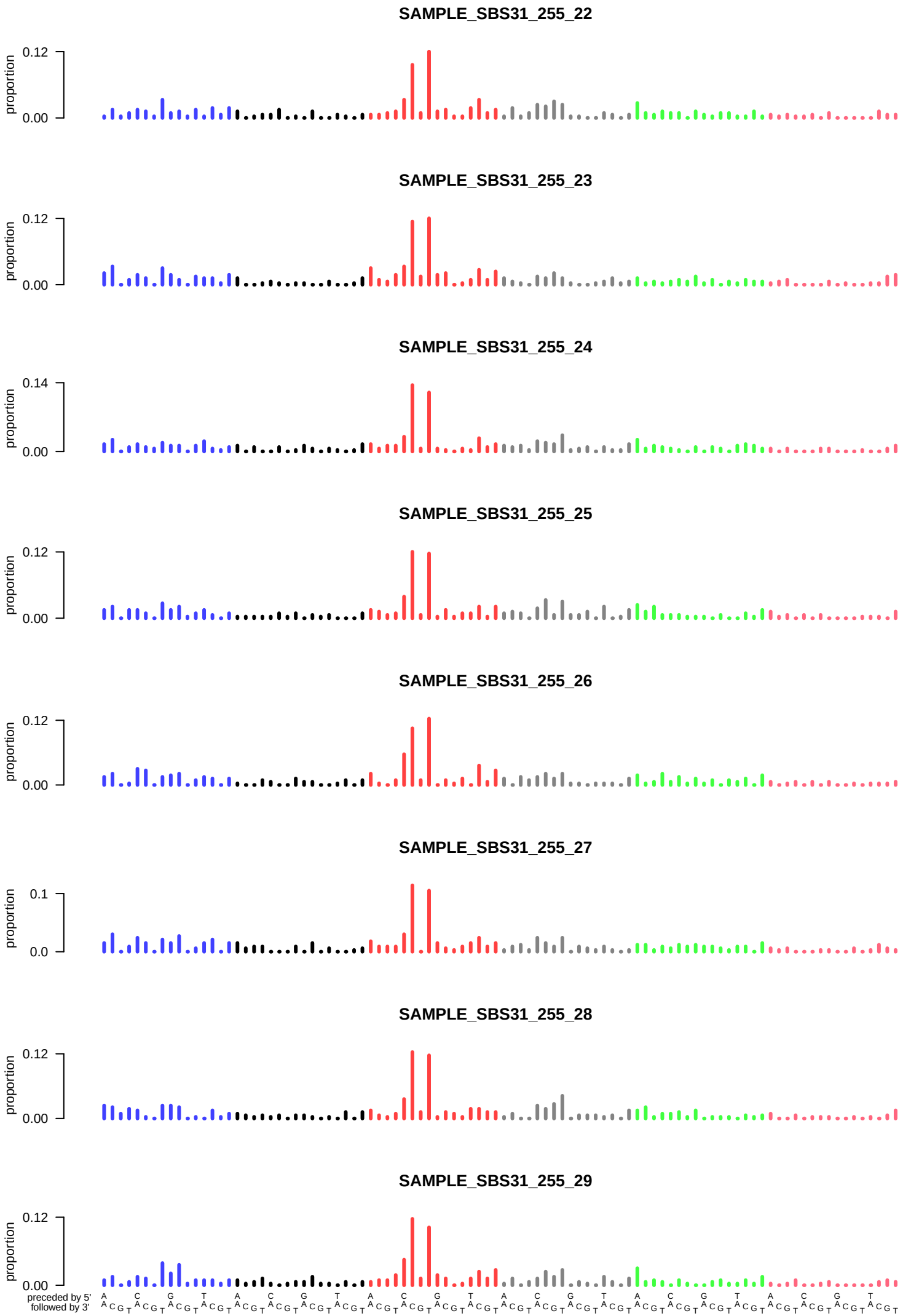
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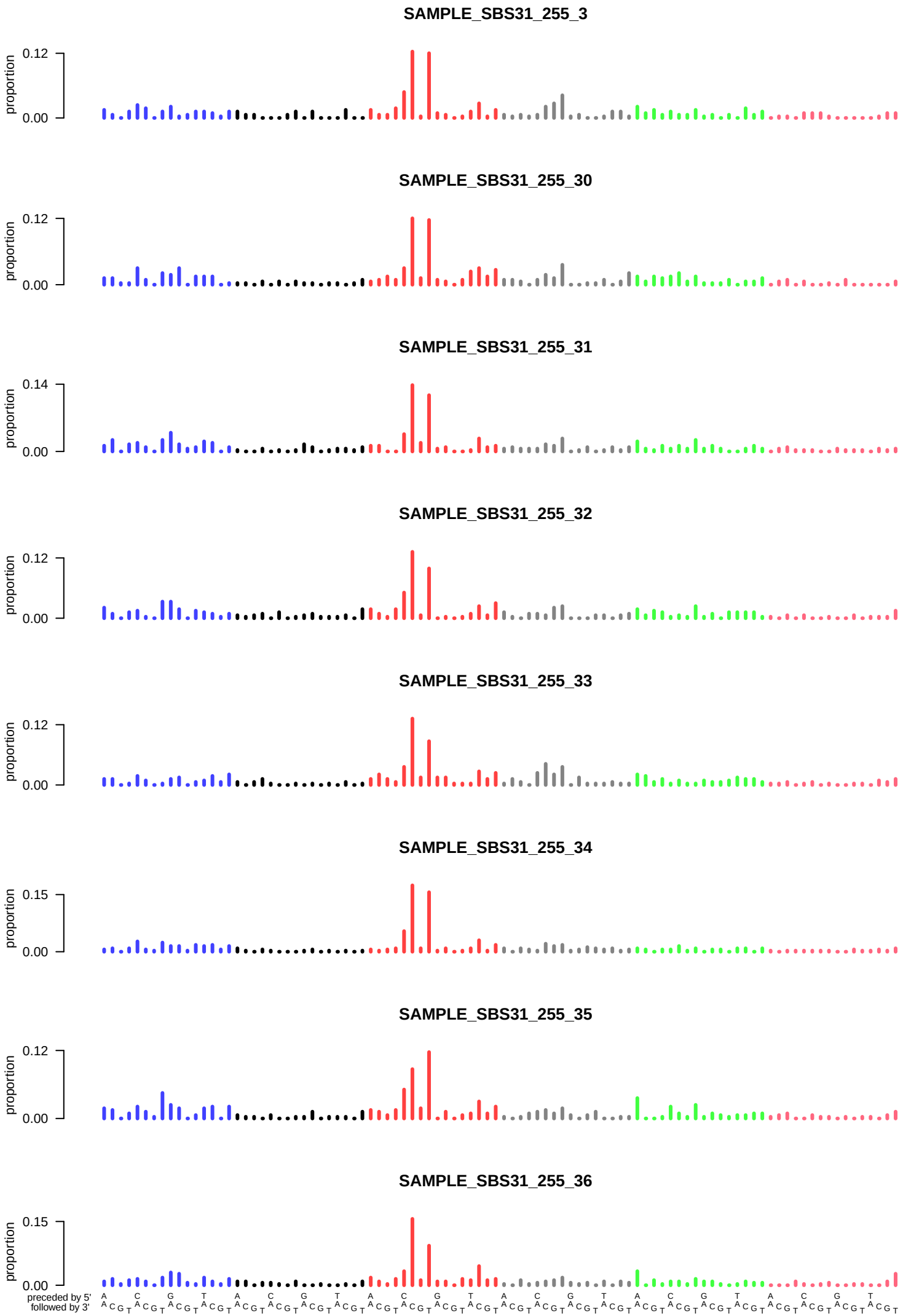
followed by 3'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SAMPLE_SBS31_255_35
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SAMPLE_SBS31_255_36
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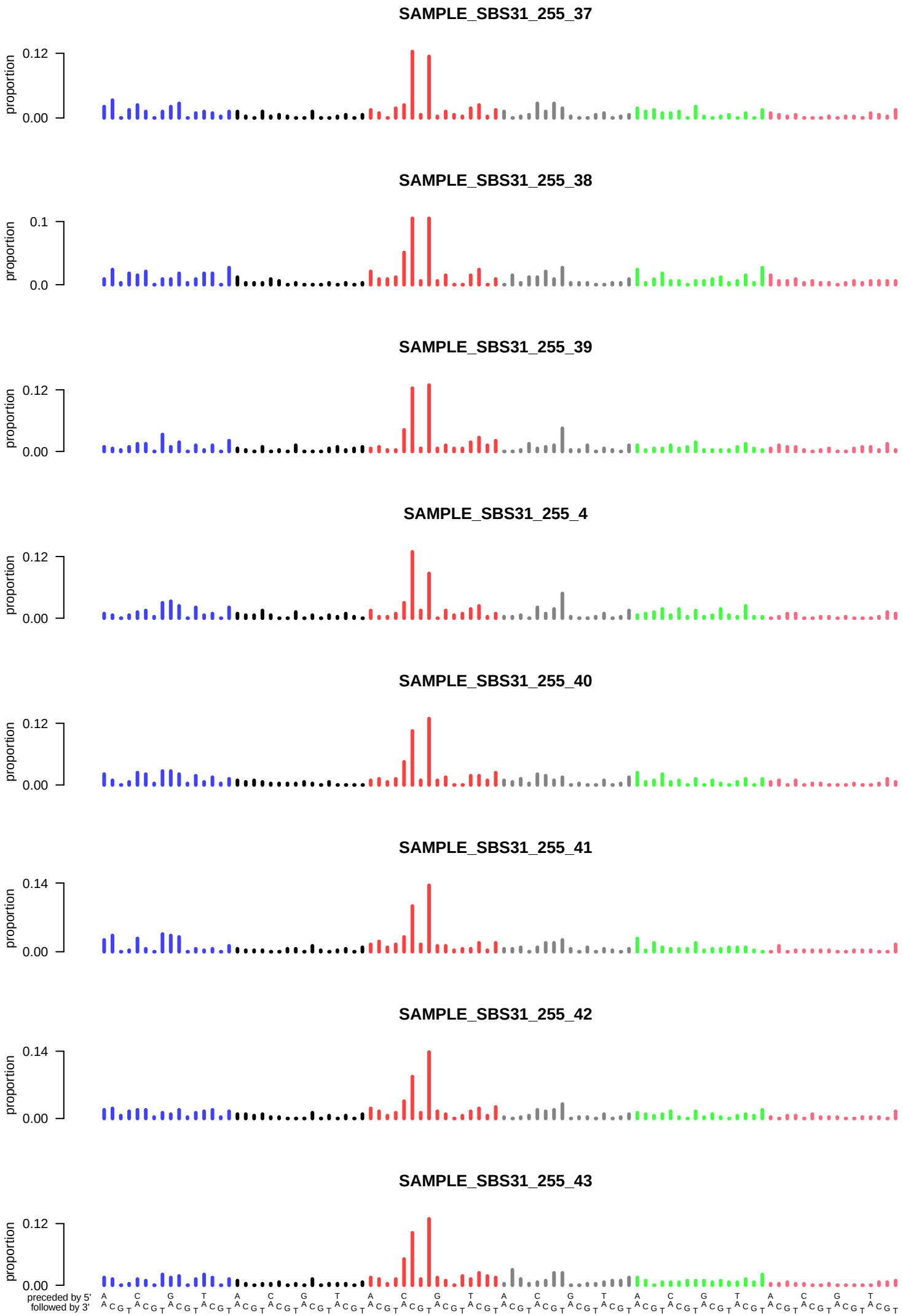
preceded by 5'
followed by 3'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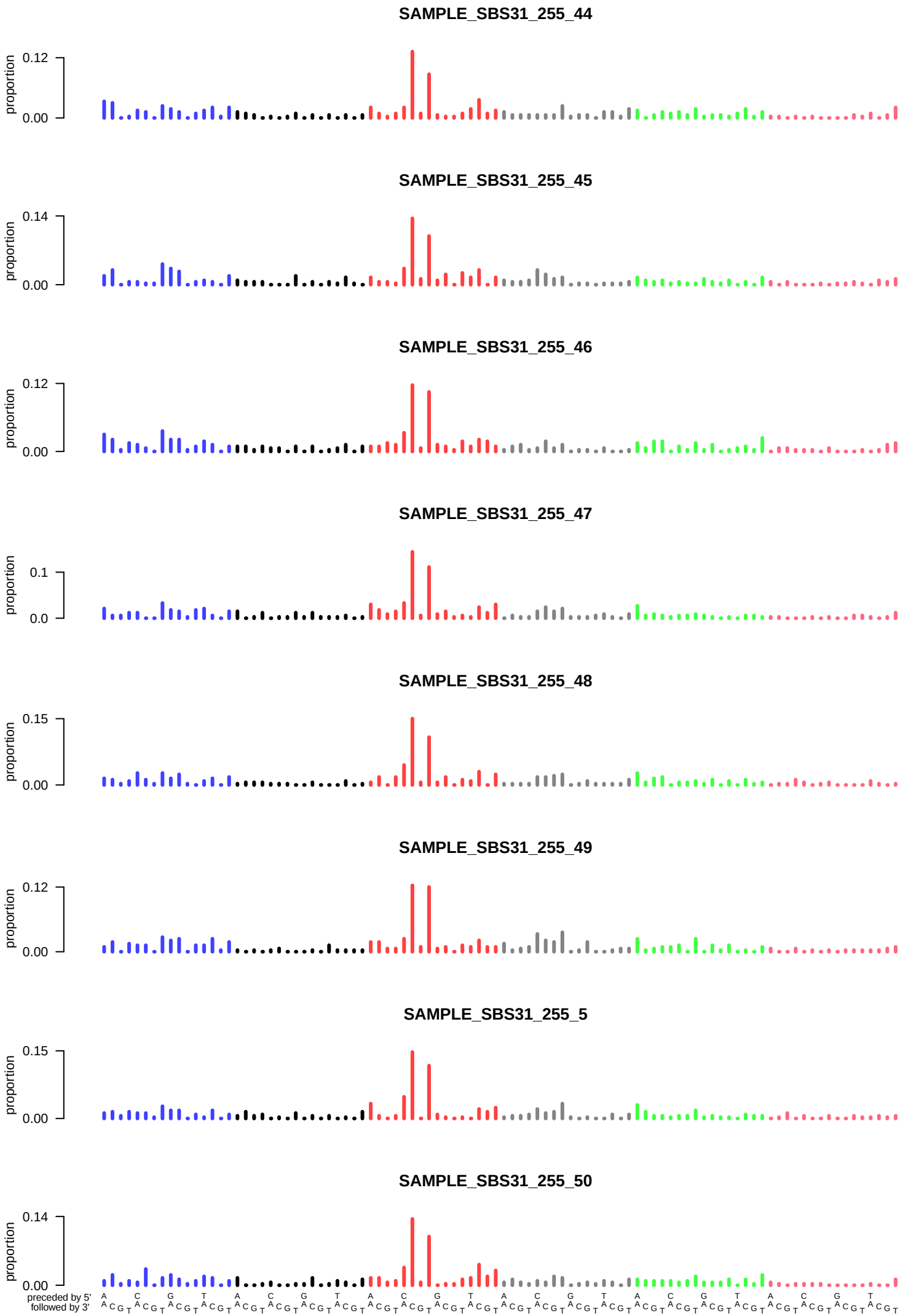
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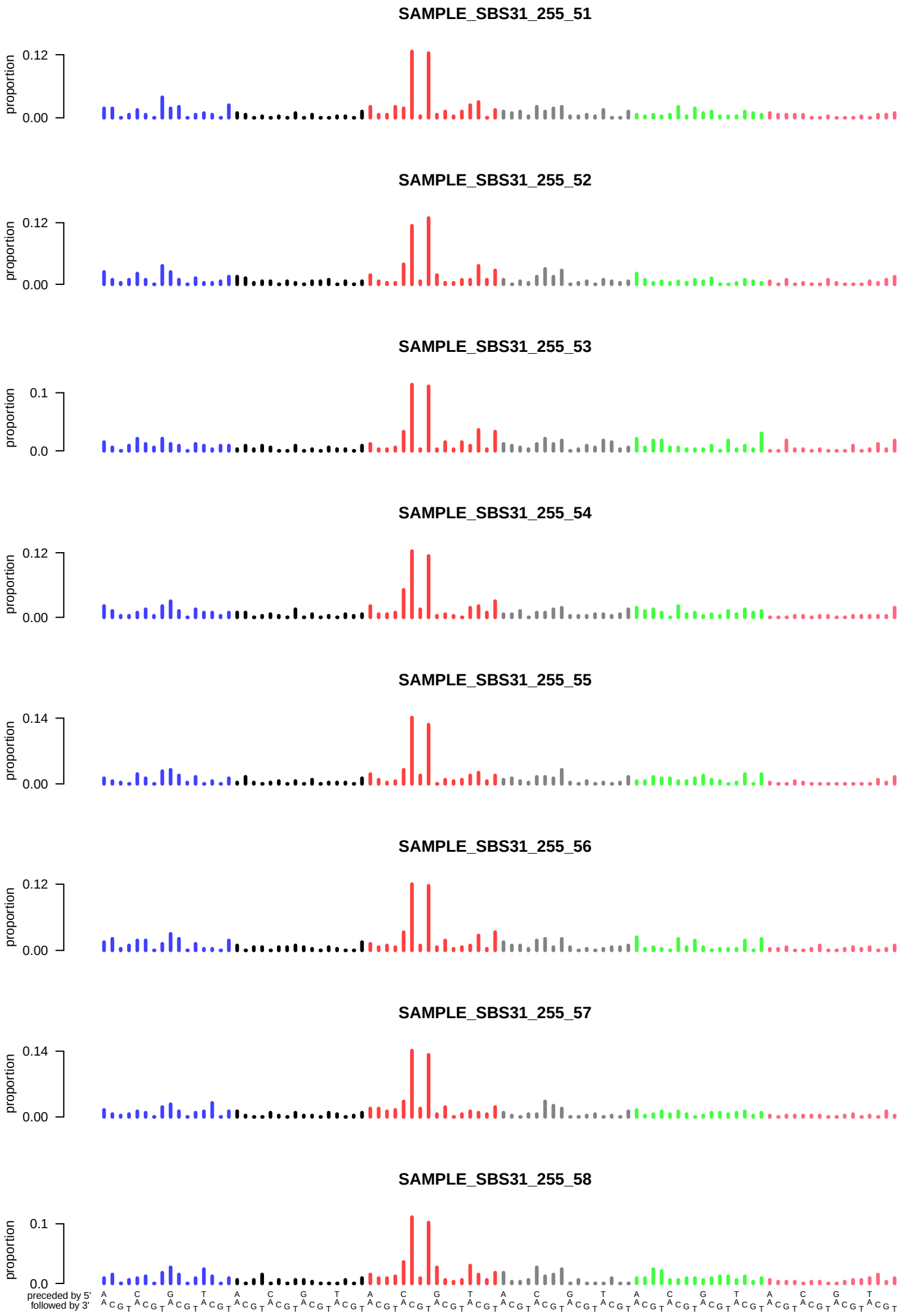
followed by 3'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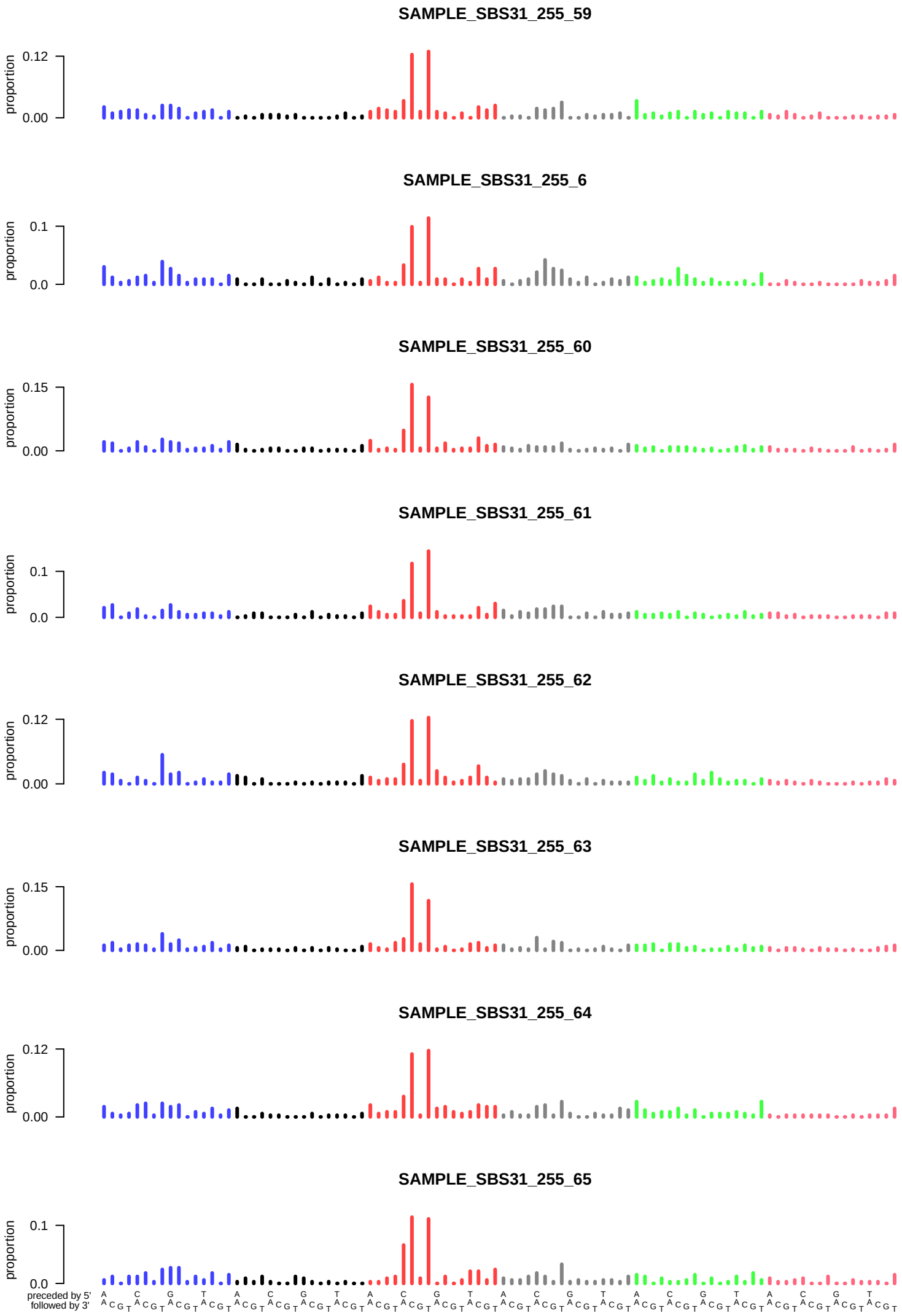
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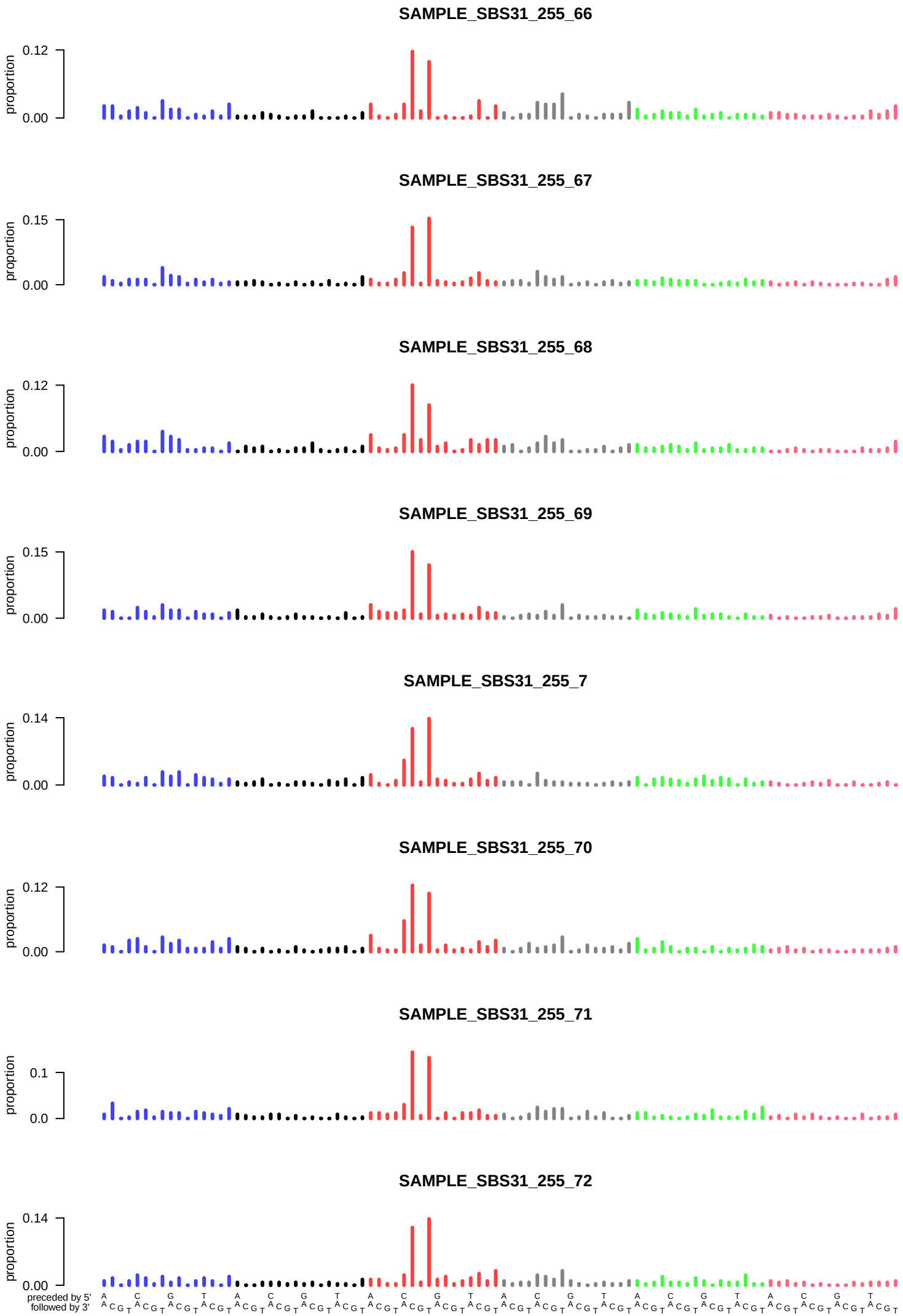
followed by 3'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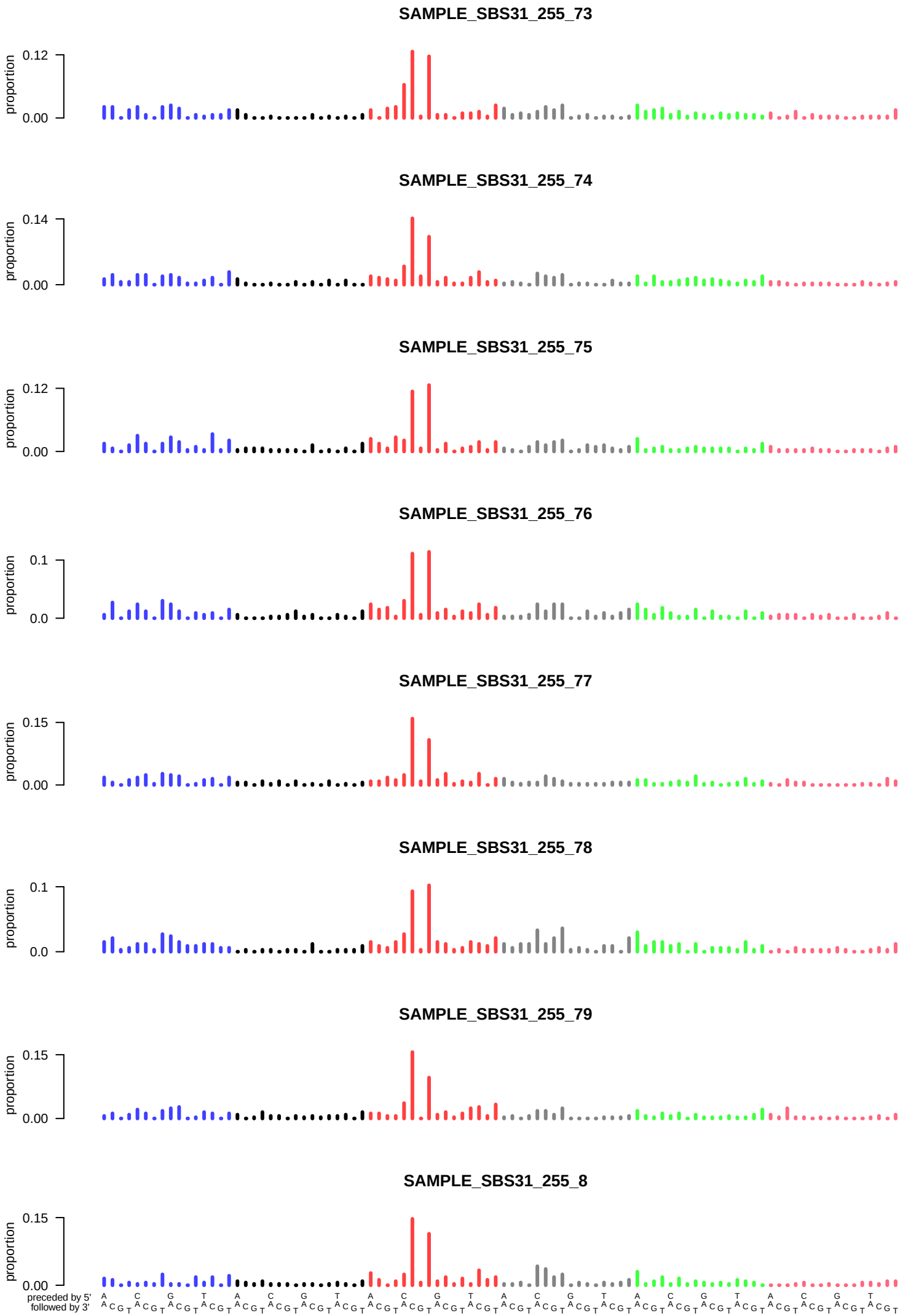
followed by 3'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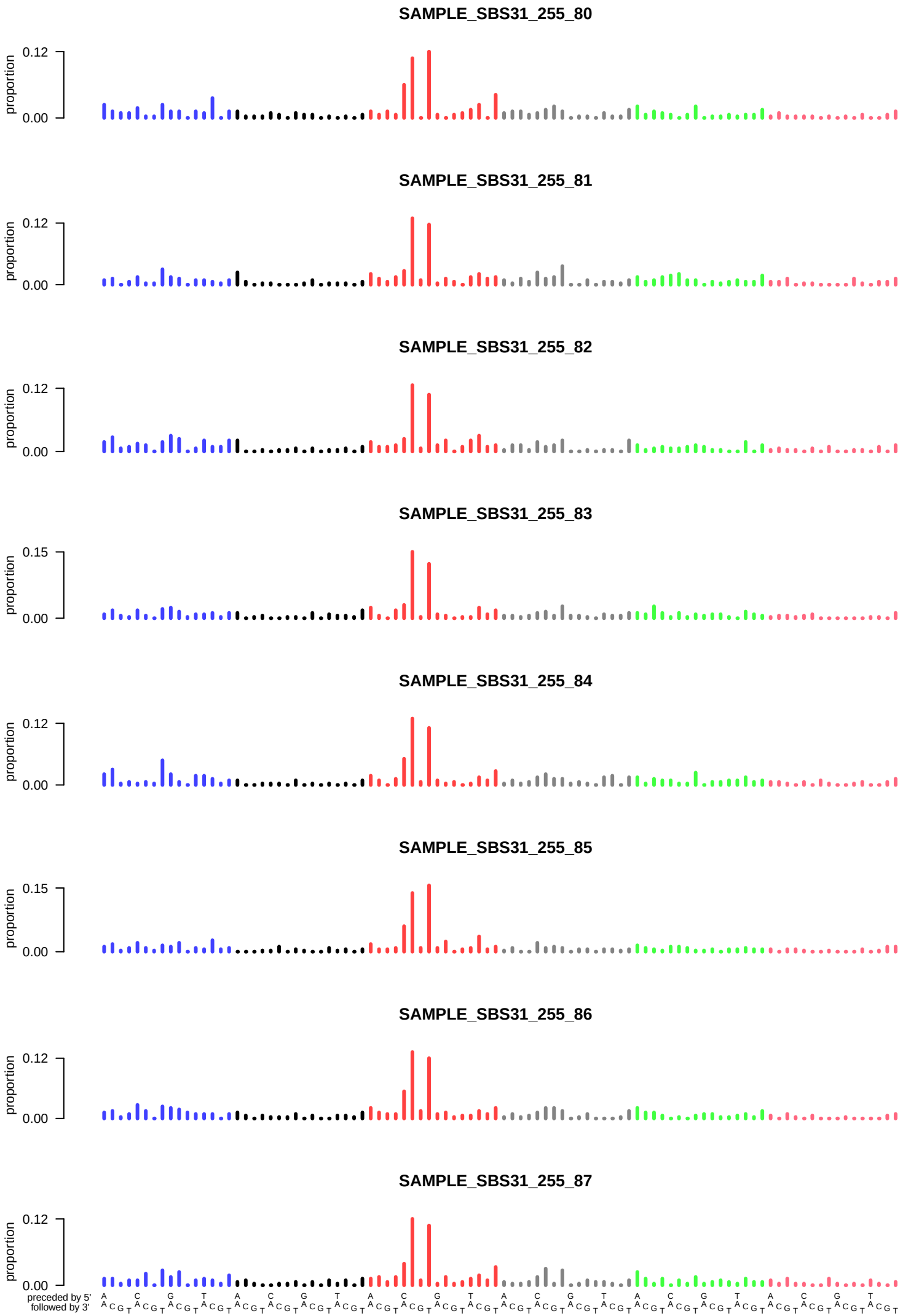
followed by 3'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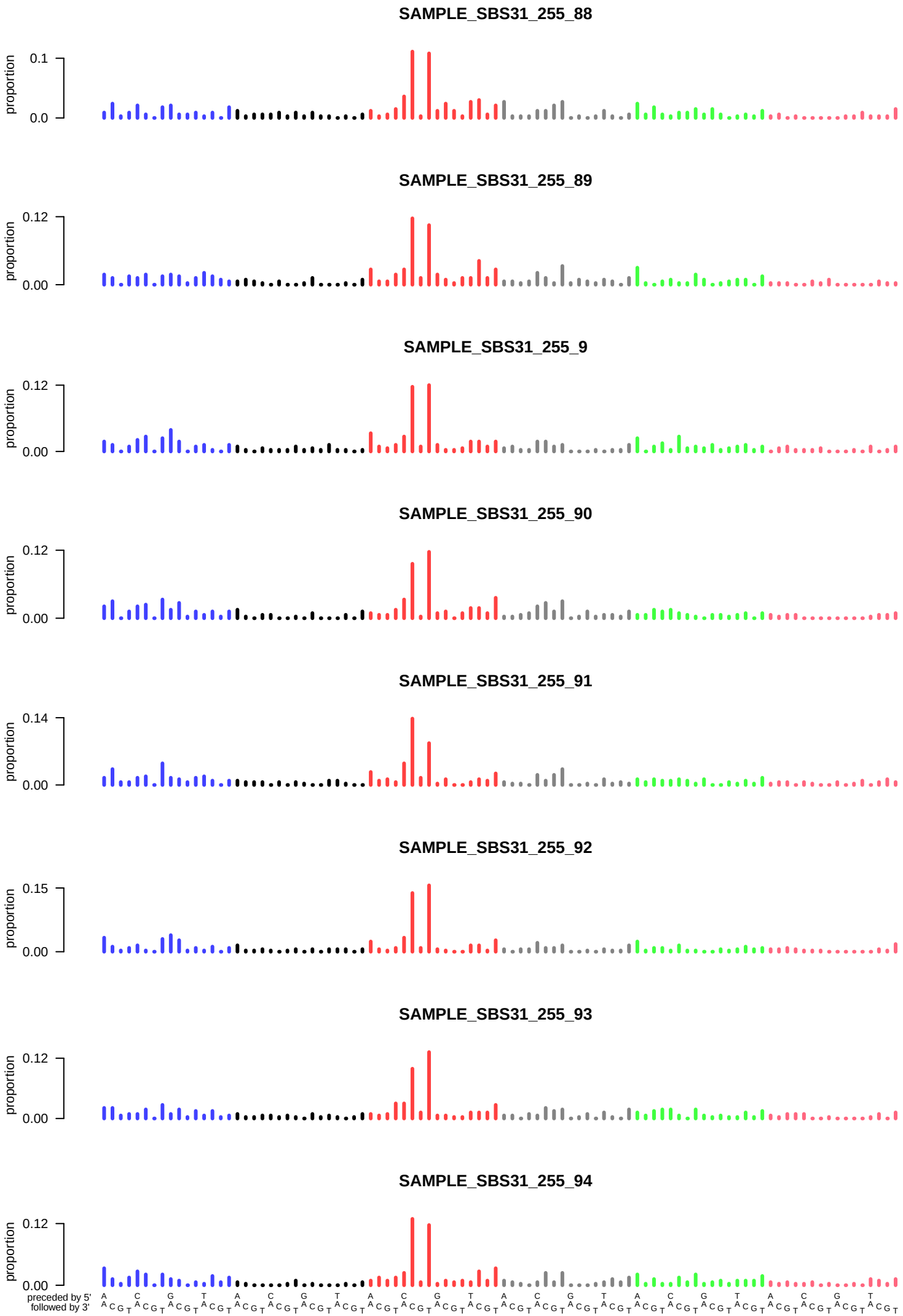
followed by 3'
A C G T A C G T A C G T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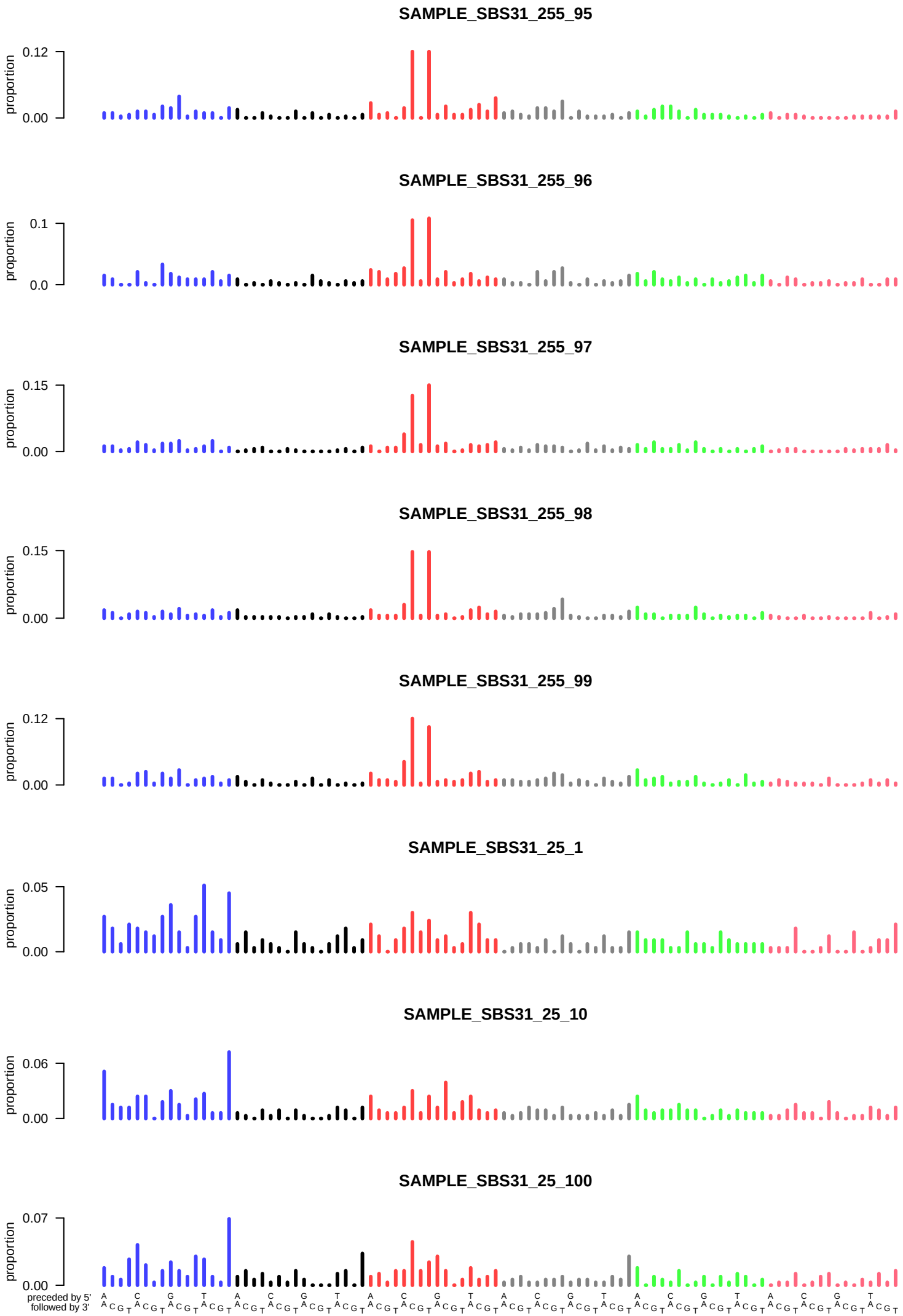
followed by 3'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SAMPLE_SBS31_25_10
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followed by 3'
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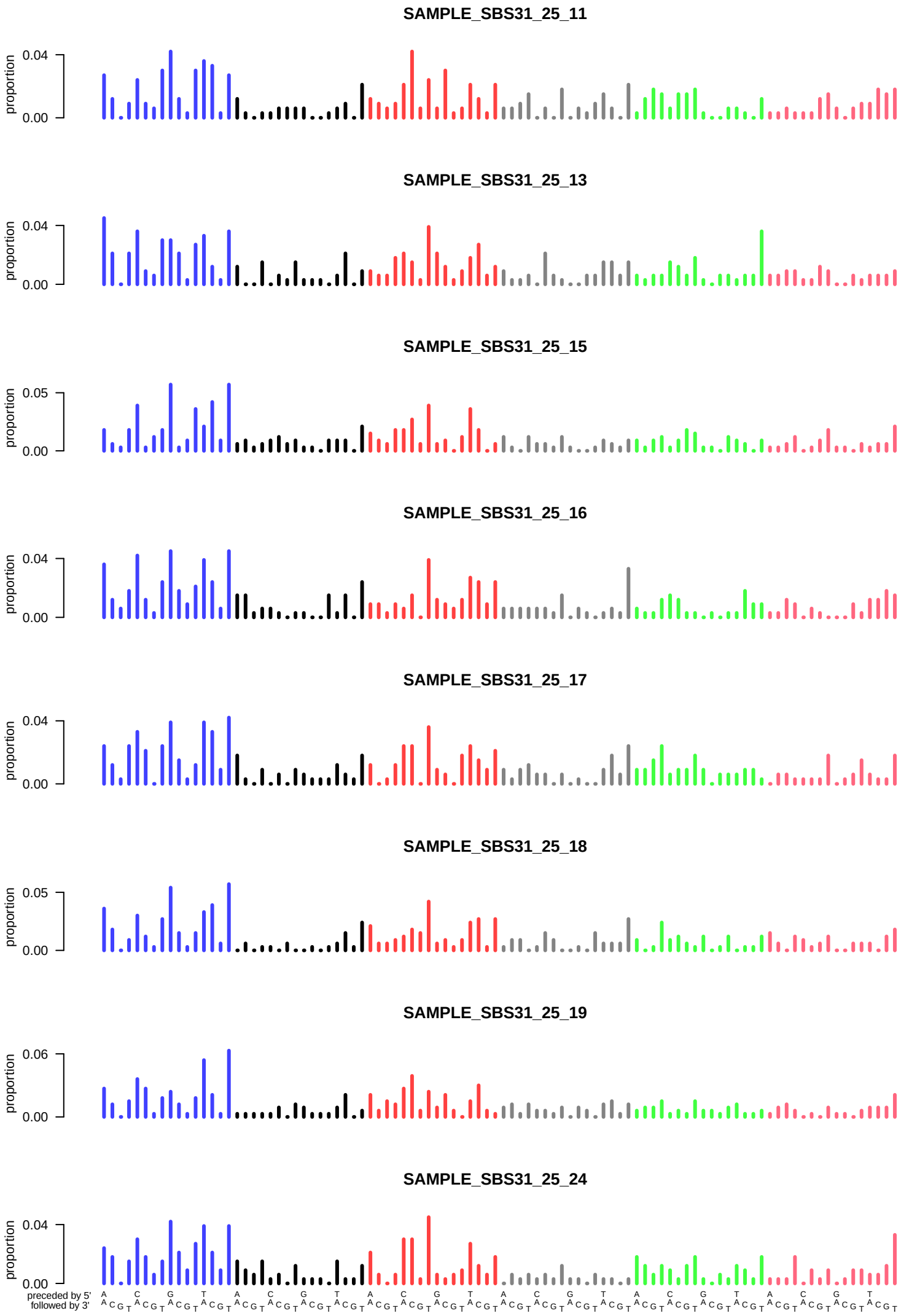
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SAMPLE_SBS31_25_19
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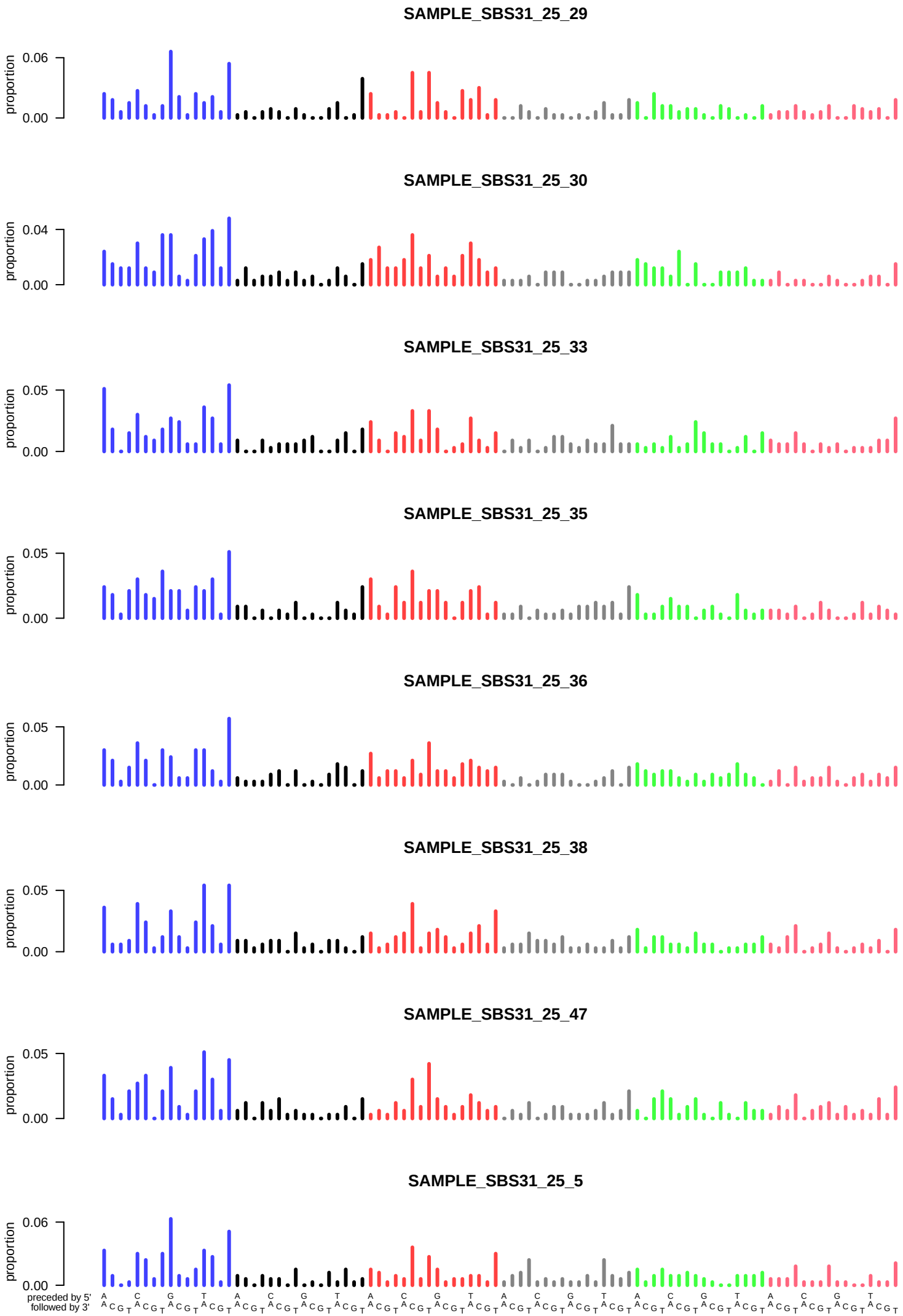
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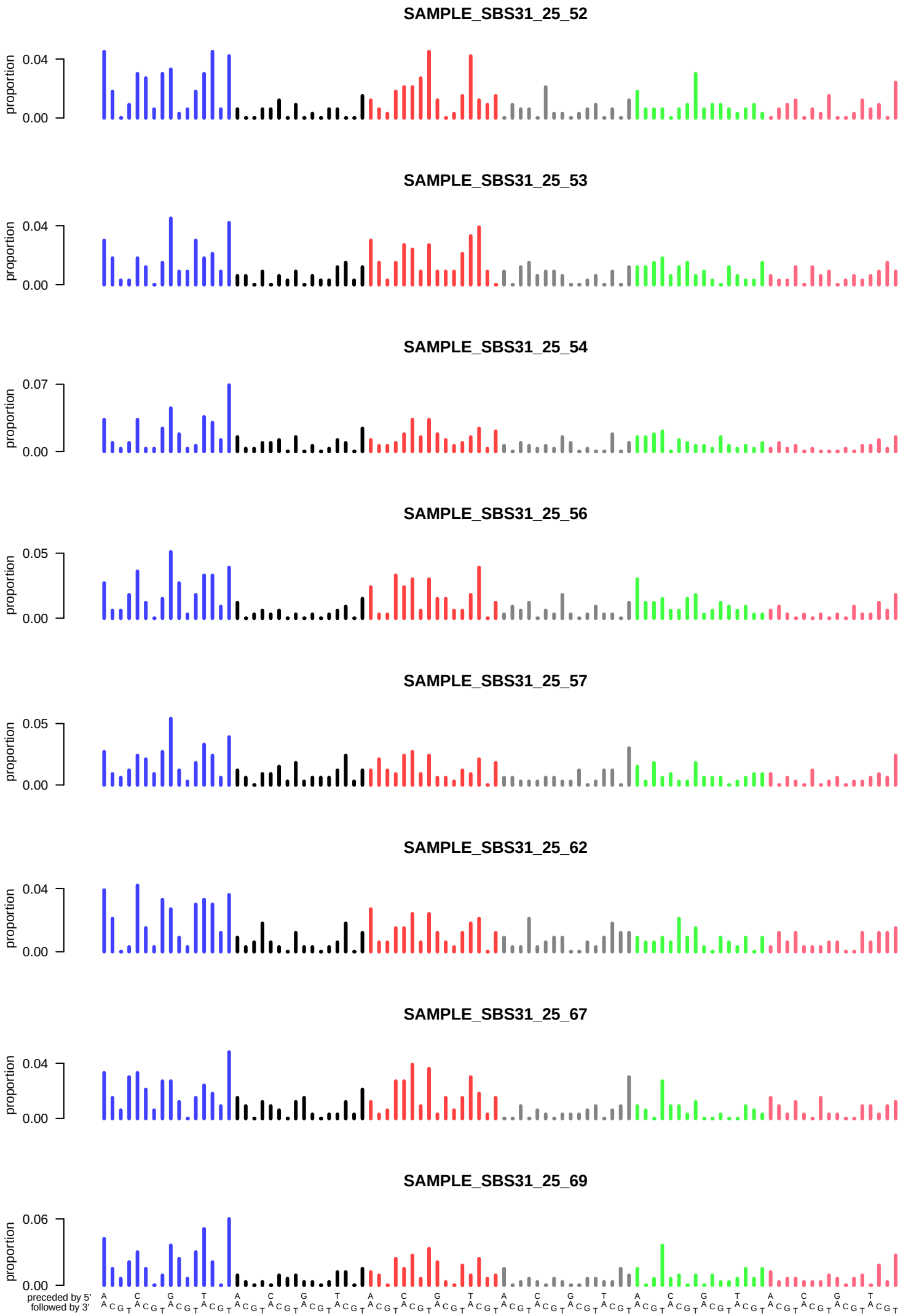
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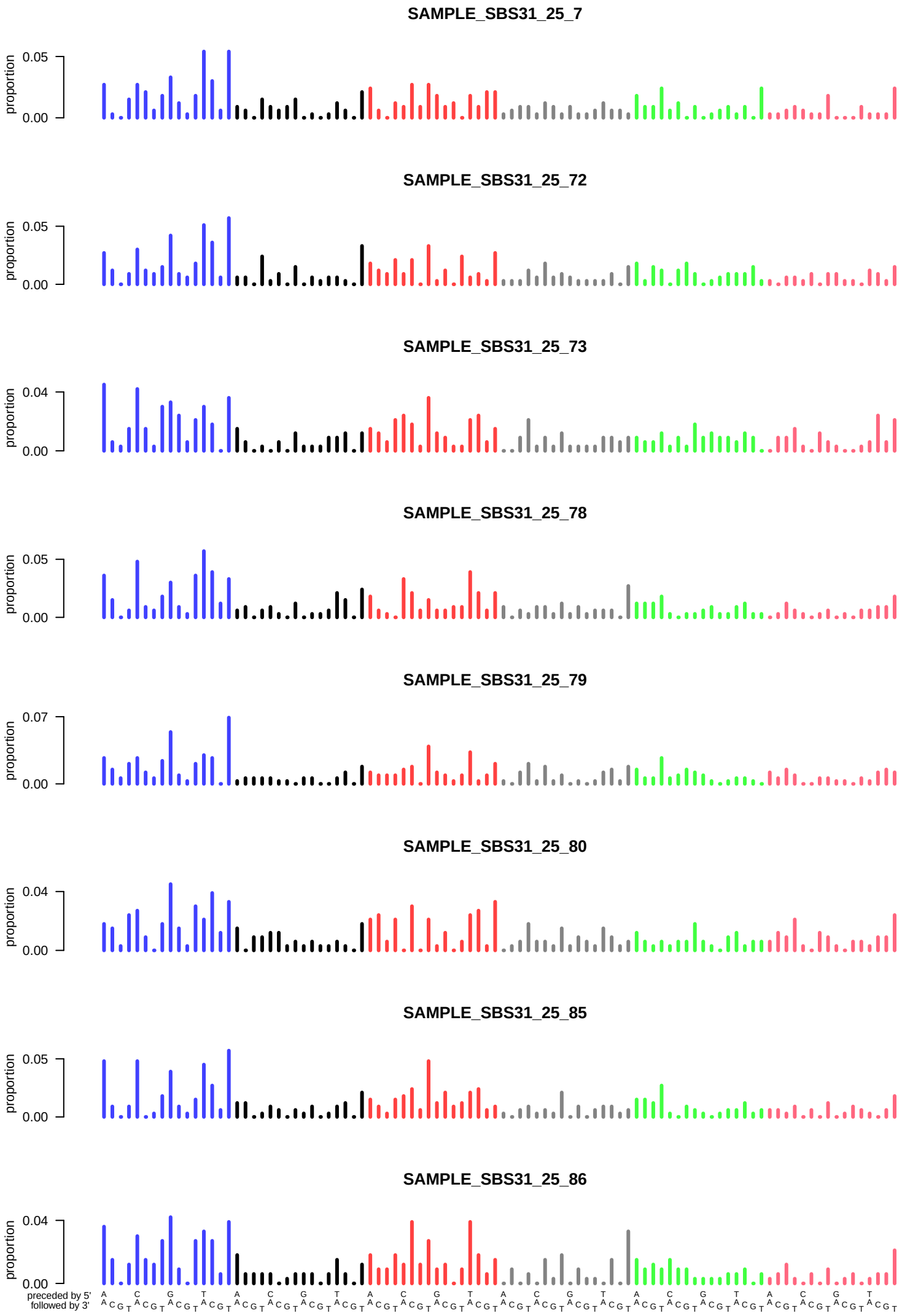
A C G T A C G T A C G T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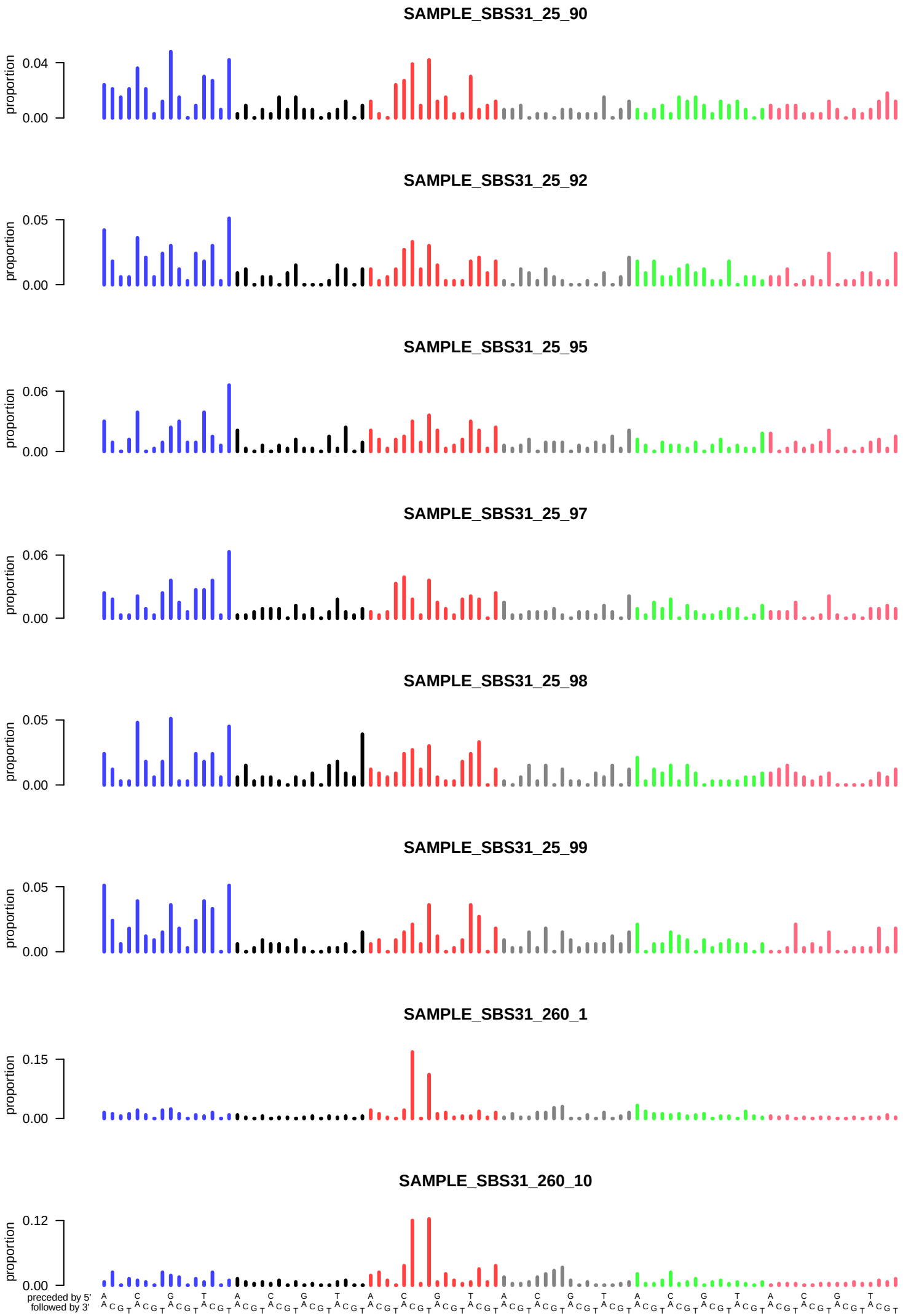
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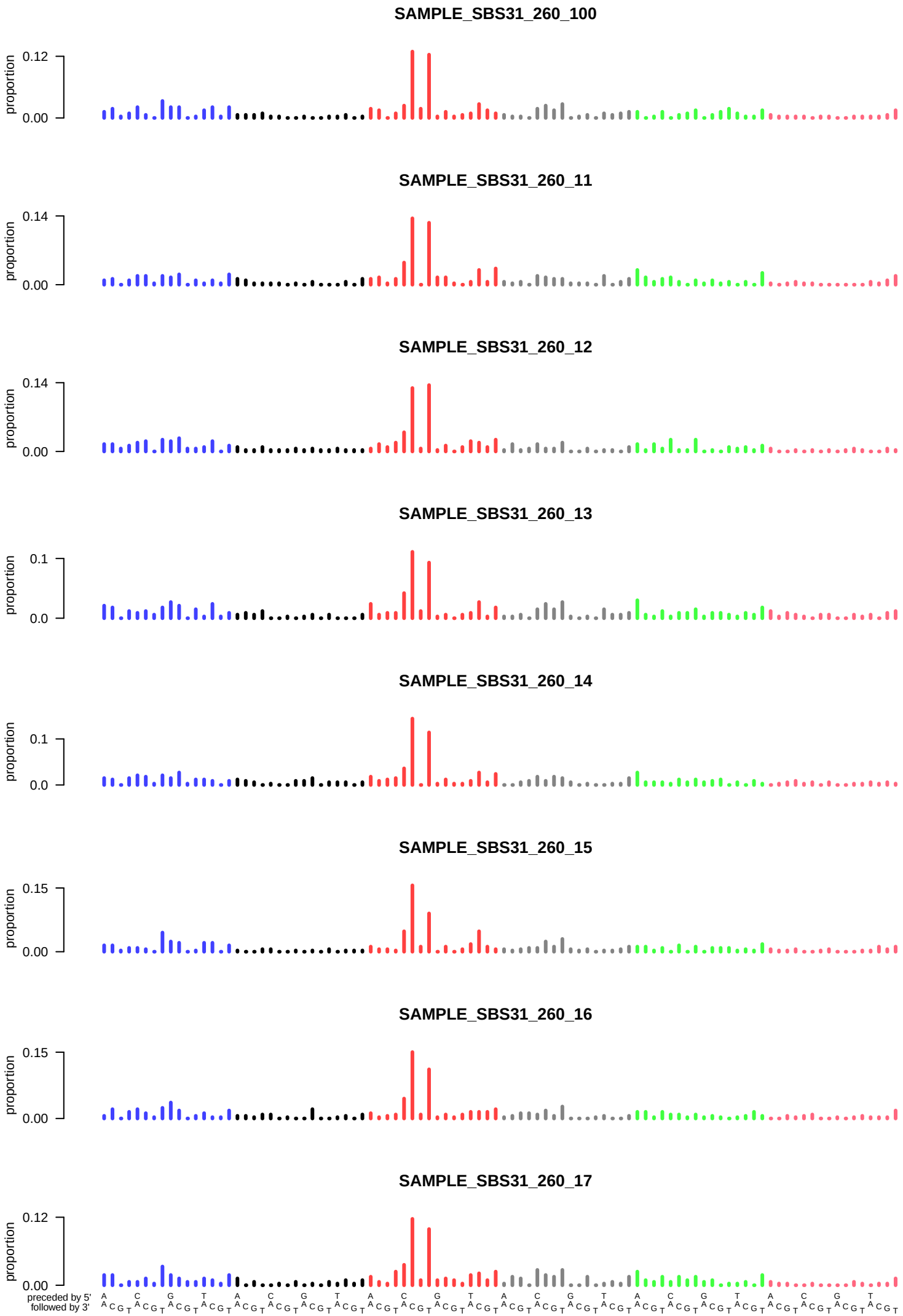
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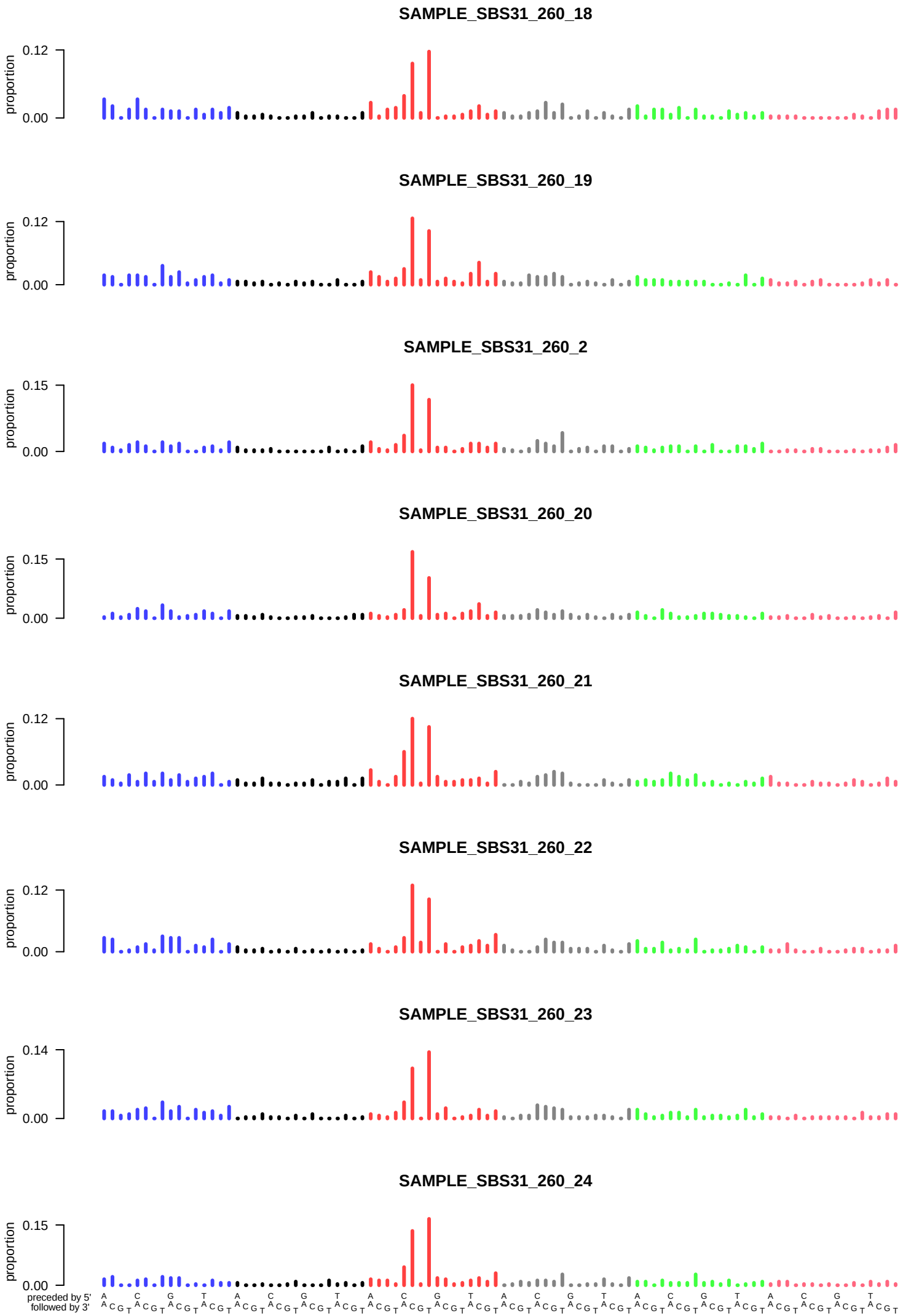
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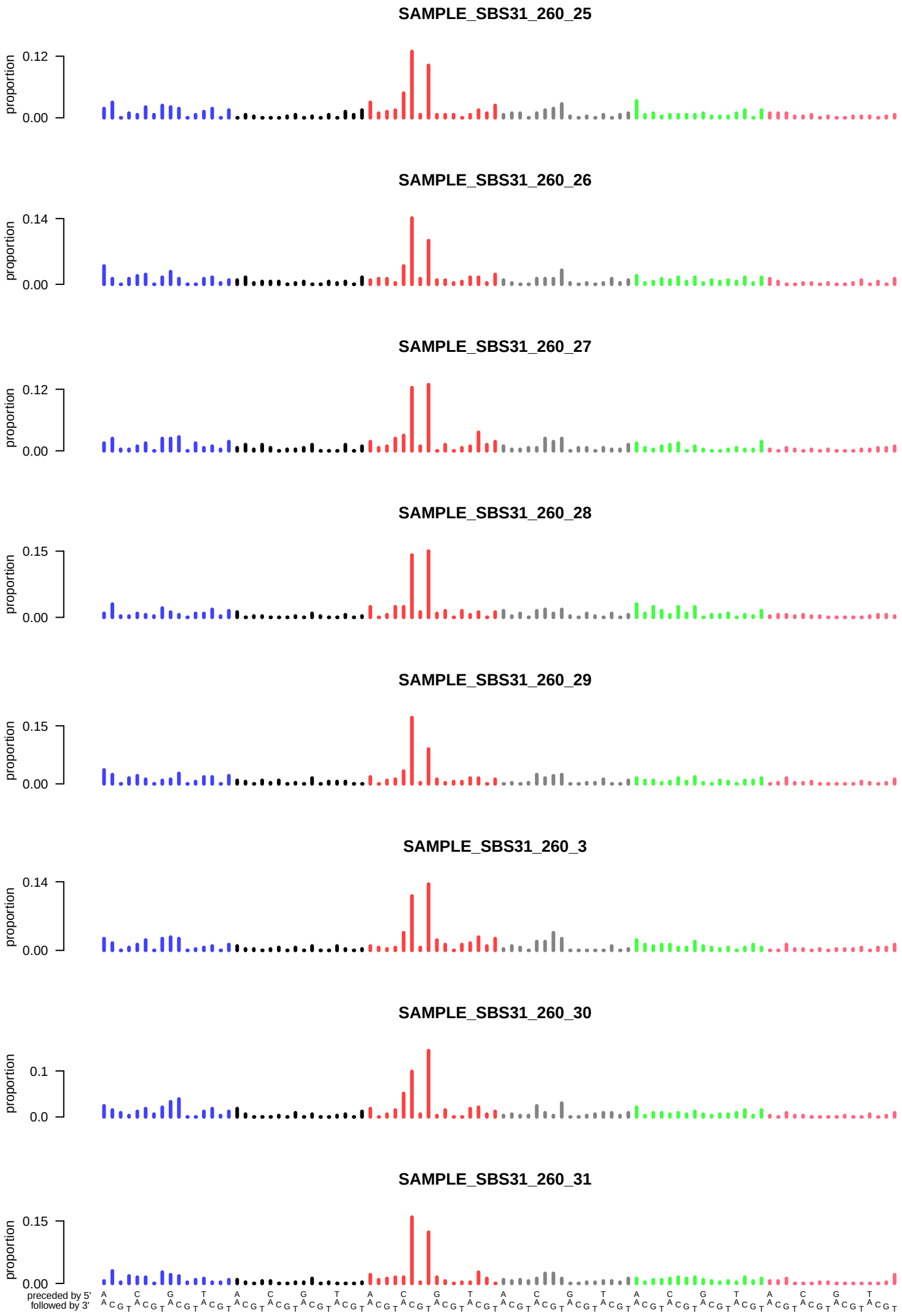
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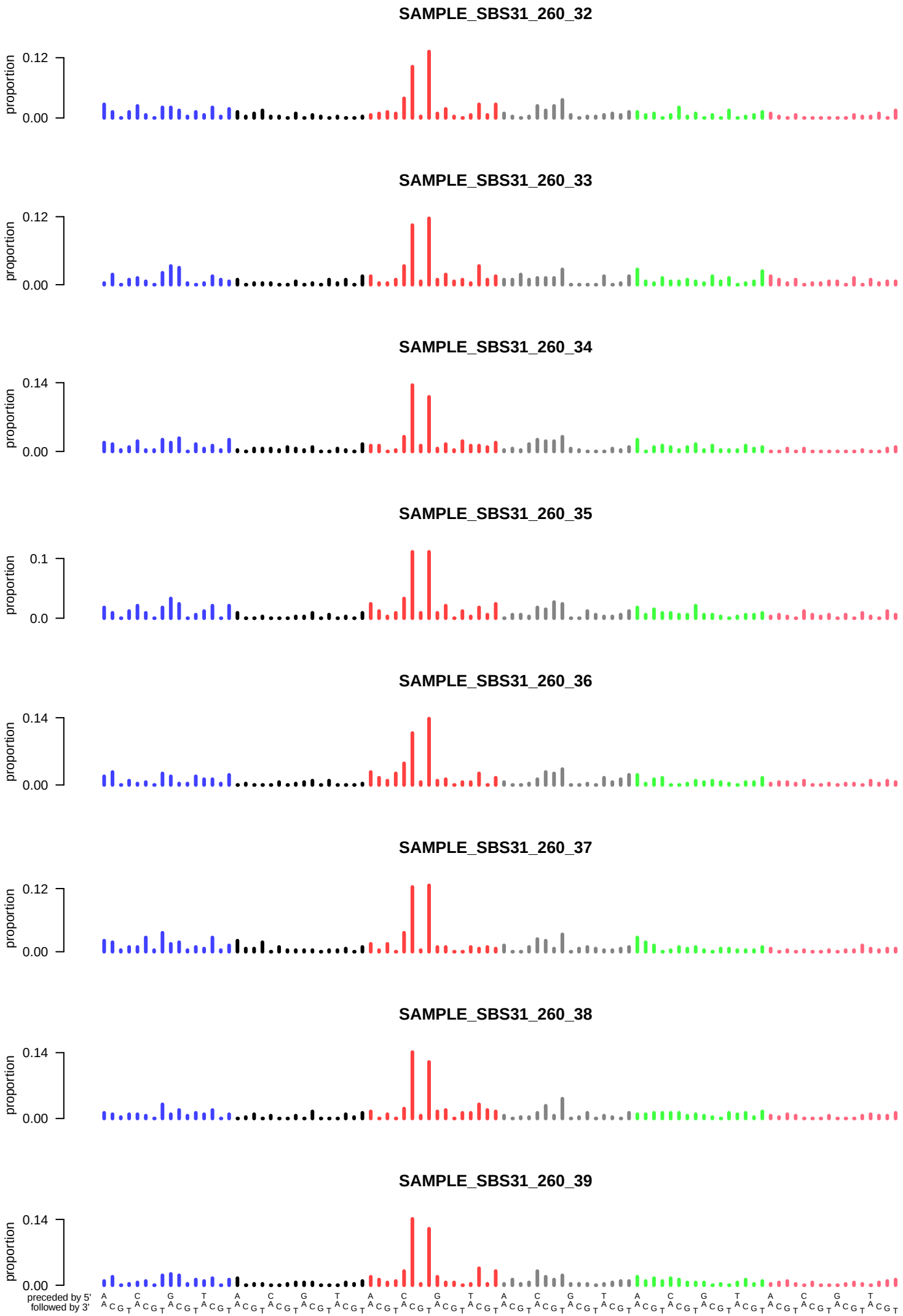
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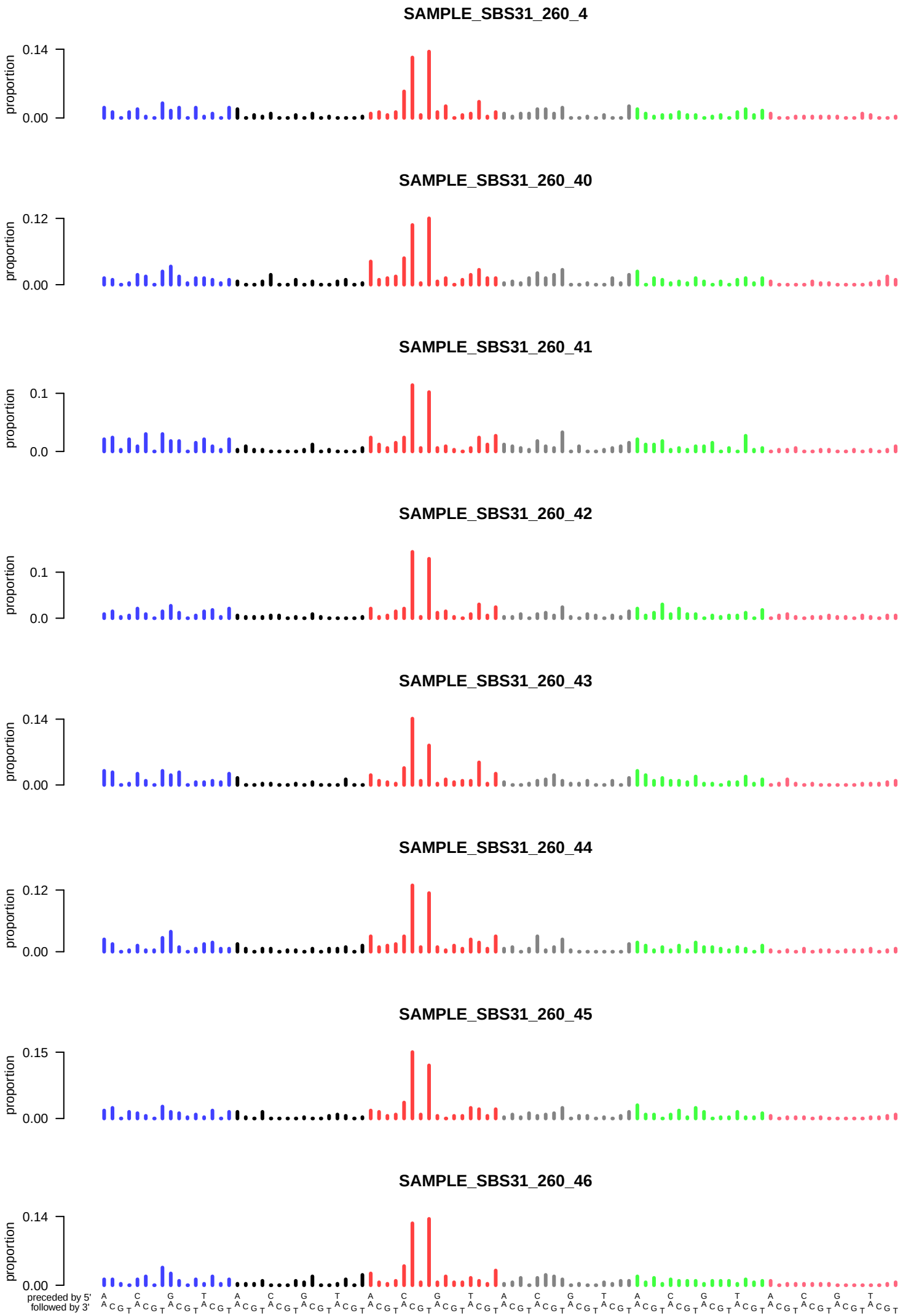
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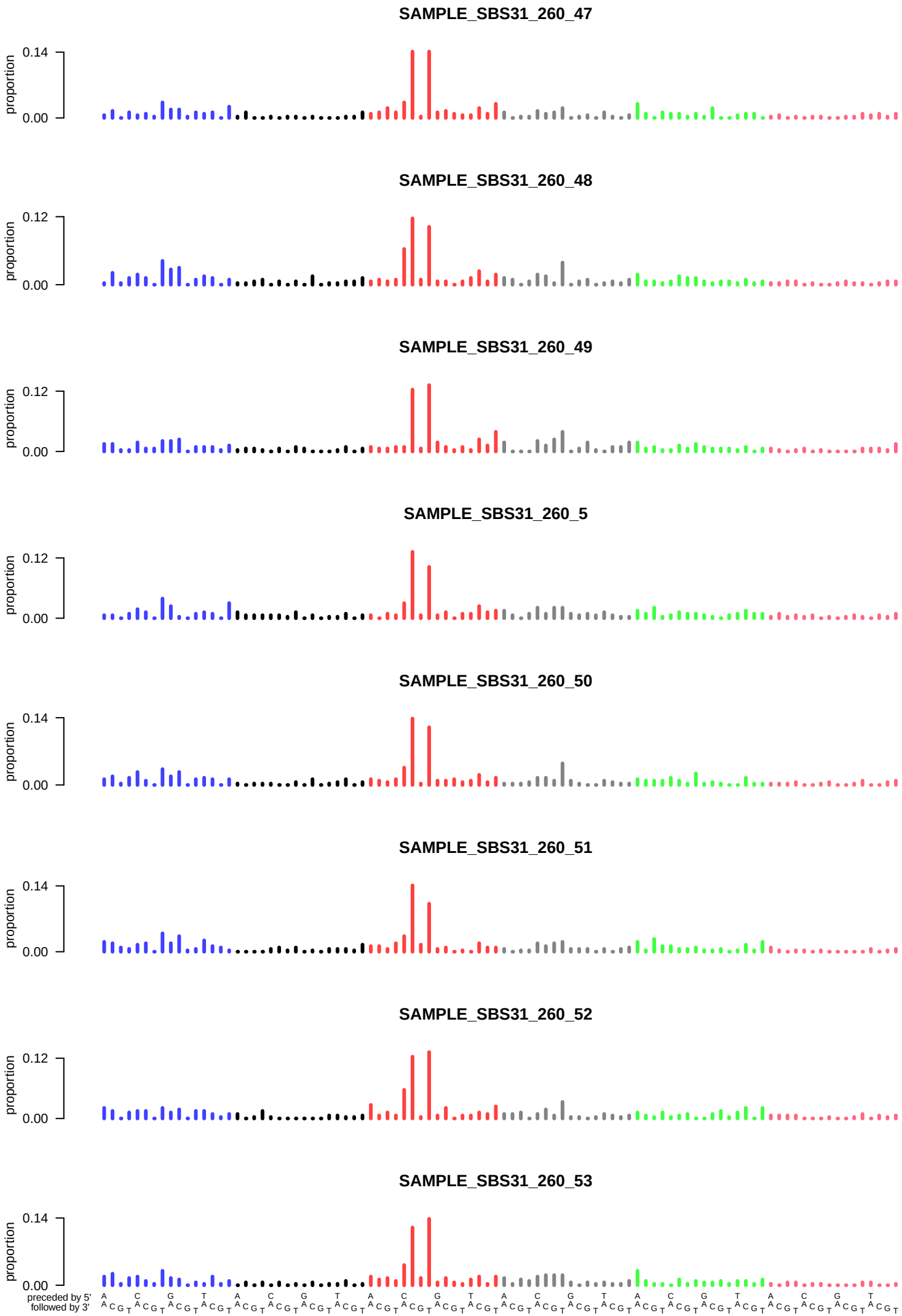
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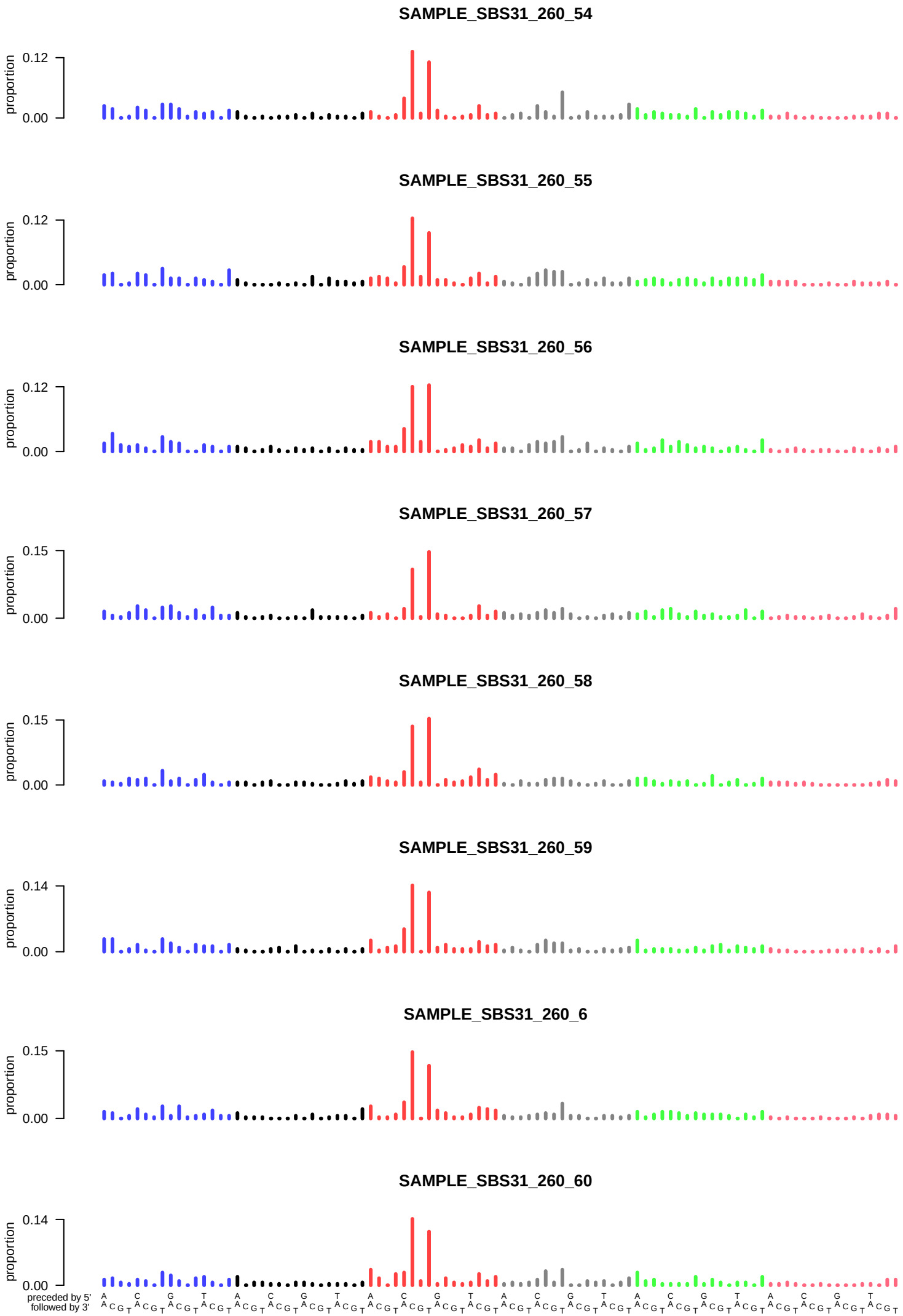
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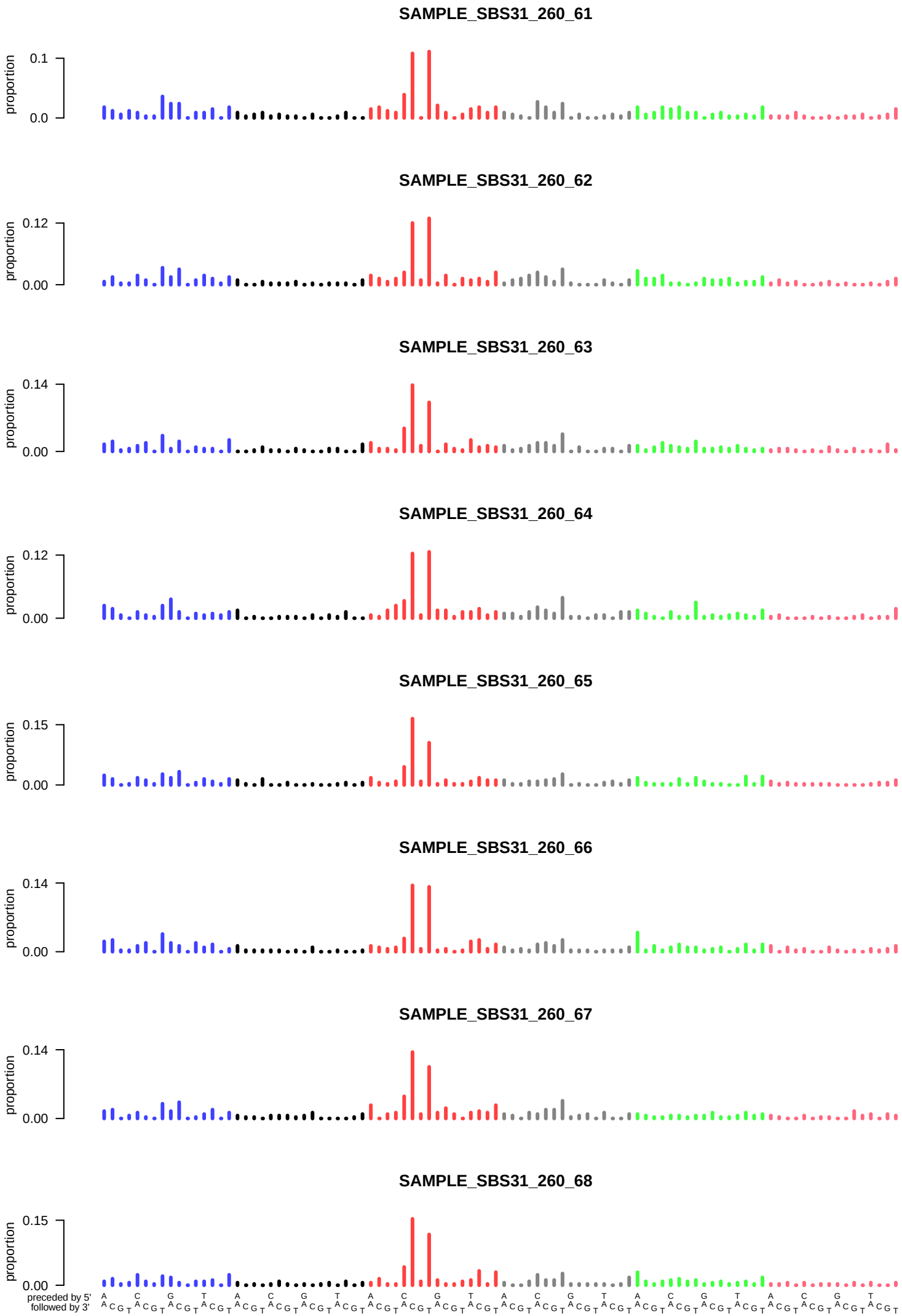
A C G T A C G T A C G T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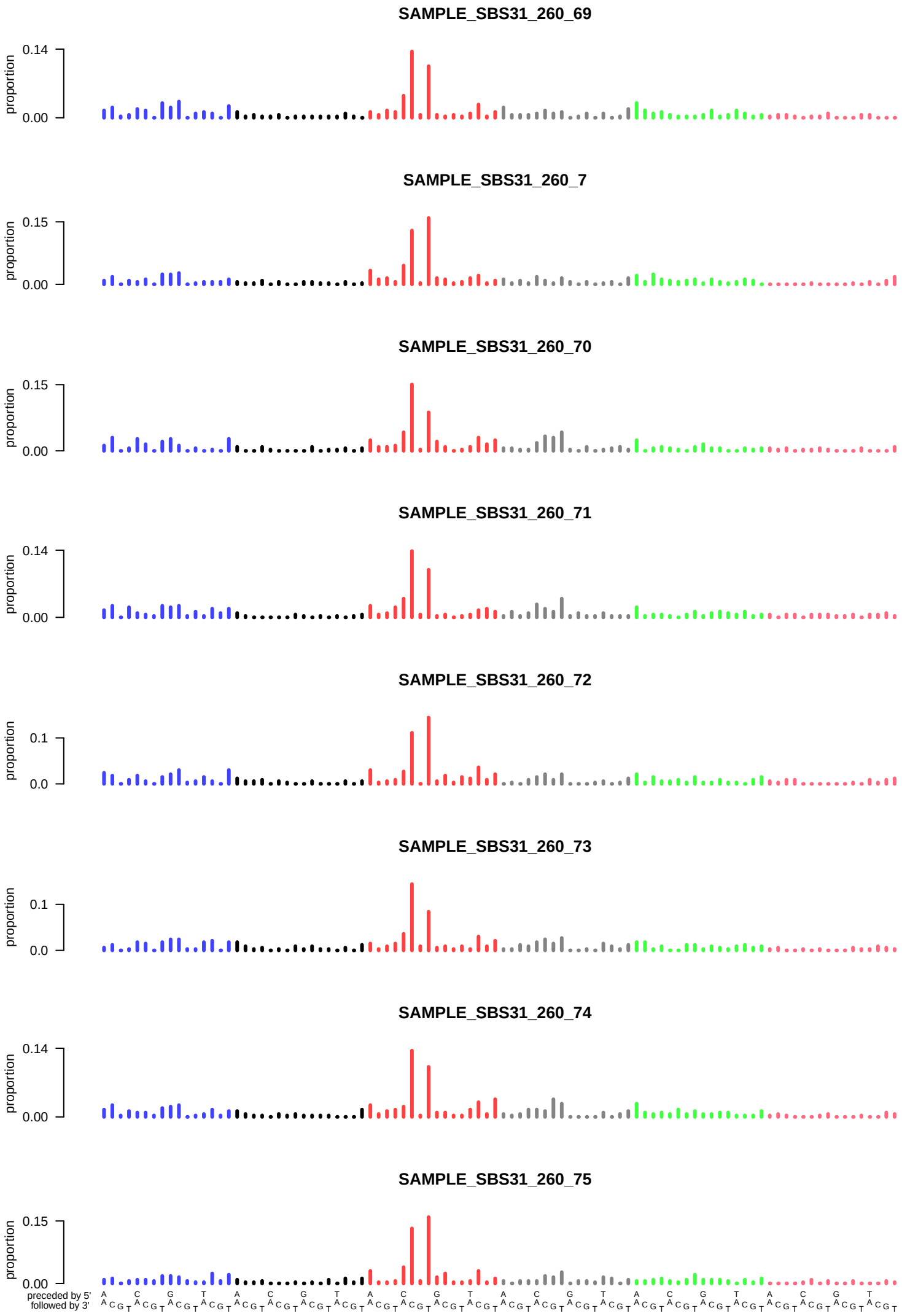
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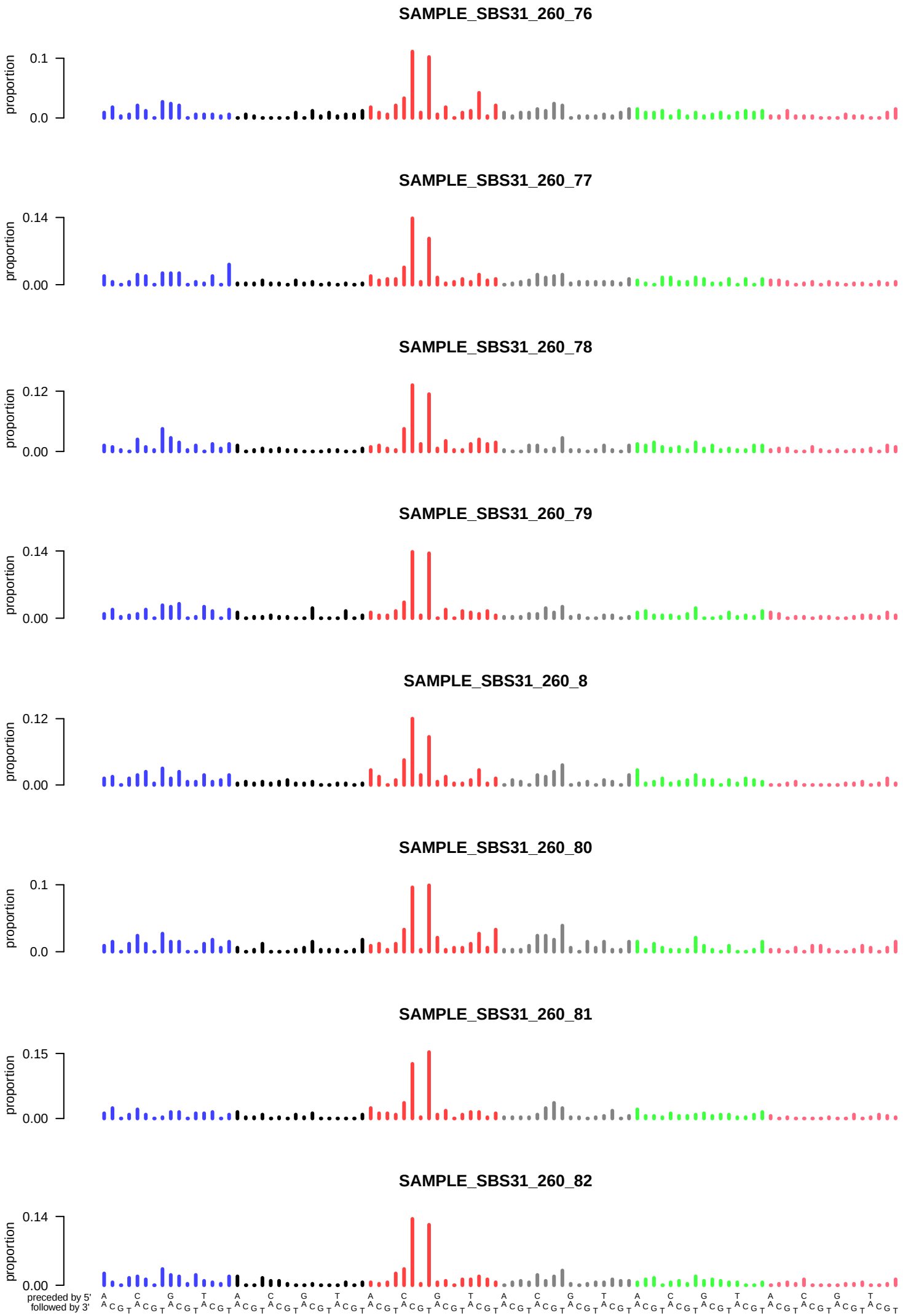
followed by 3'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SAMPLE_SBS31_260_79
proportion
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SAMPLE_SBS31_260_8
proportion
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SAMPLE_SBS31_260_80
proportion
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SAMPLE_SBS31_260_81
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SAMPLE_SBS31_260_82
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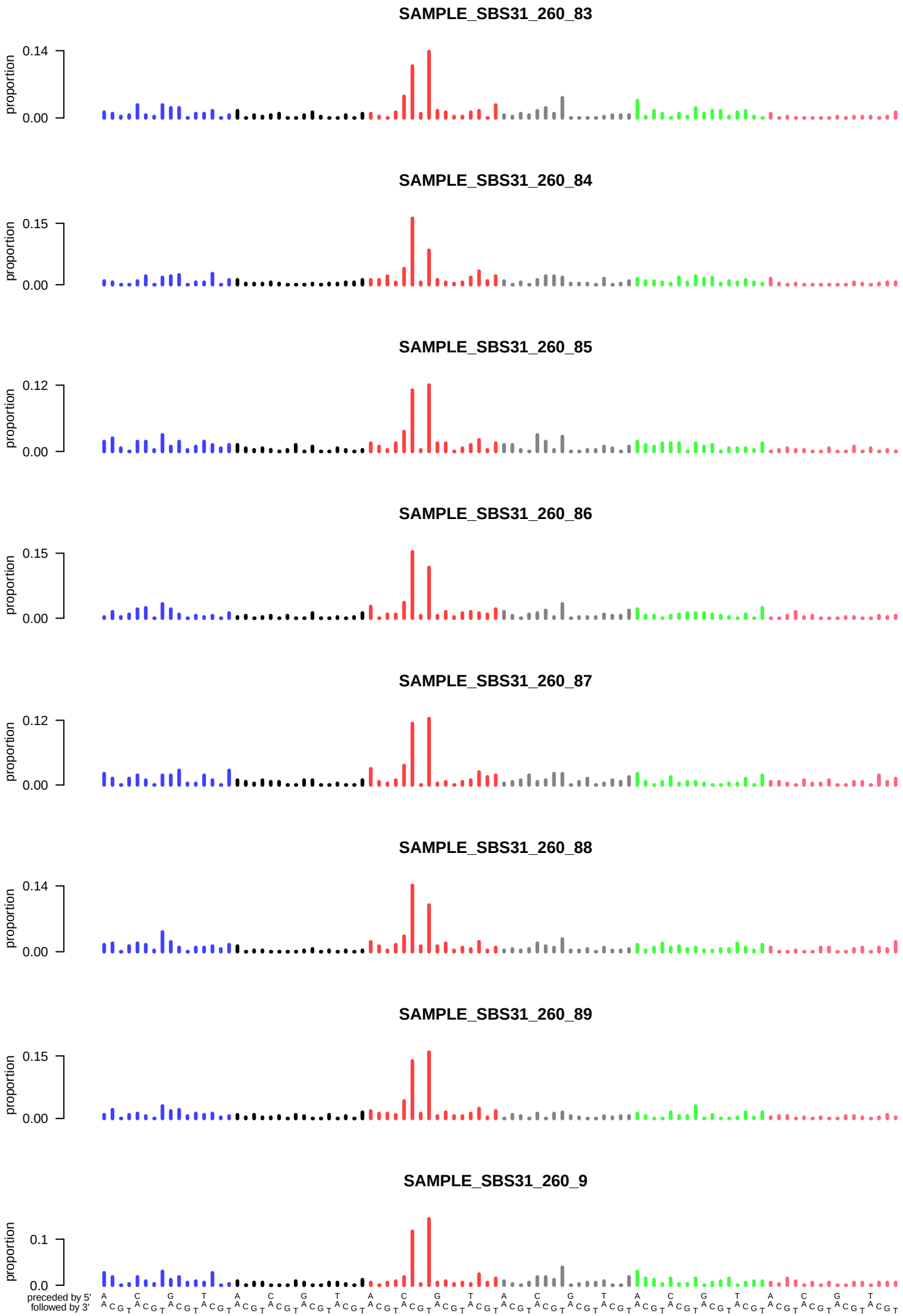
preceded by 5'
followed by 3'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SAMPLE_SBS31_260_85
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SAMPLE_SBS31_260_86
proportion
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SAMPLE_SBS31_260_87
proportion
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SAMPLE_SBS31_260_88
proportion
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SAMPLE_SBS31_260_89
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SAMPLE_SBS31_260_9
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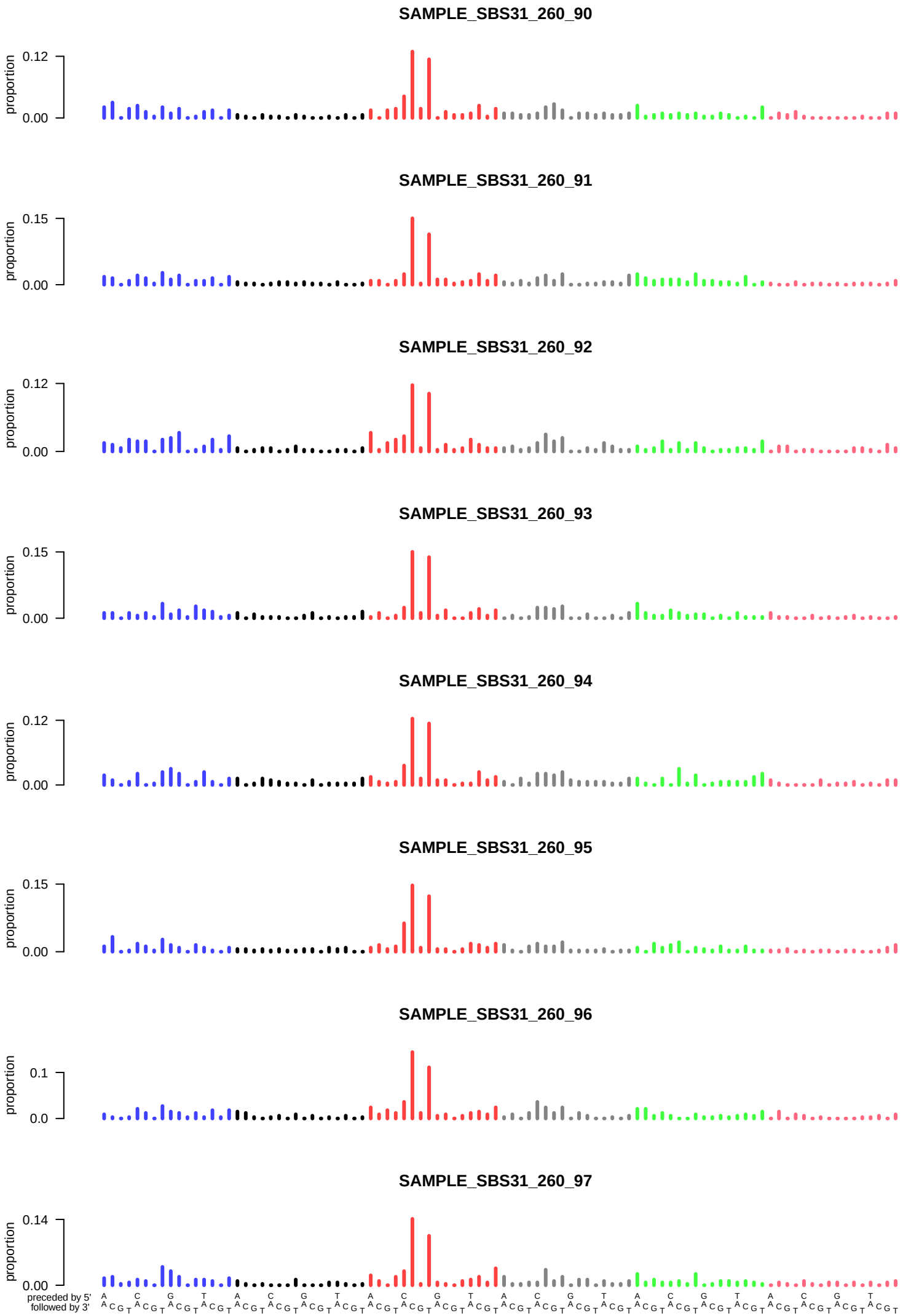
preceded by 5'
followed by 3'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SAMPLE_SBS31_260_92
proportion
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SAMPLE_SBS31_260_93
proportion
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SAMPLE_SBS31_260_94
proportion
0.12
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SAMPLE_SBS31_260_95
proportion
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SAMPLE_SBS31_260_96
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proportion
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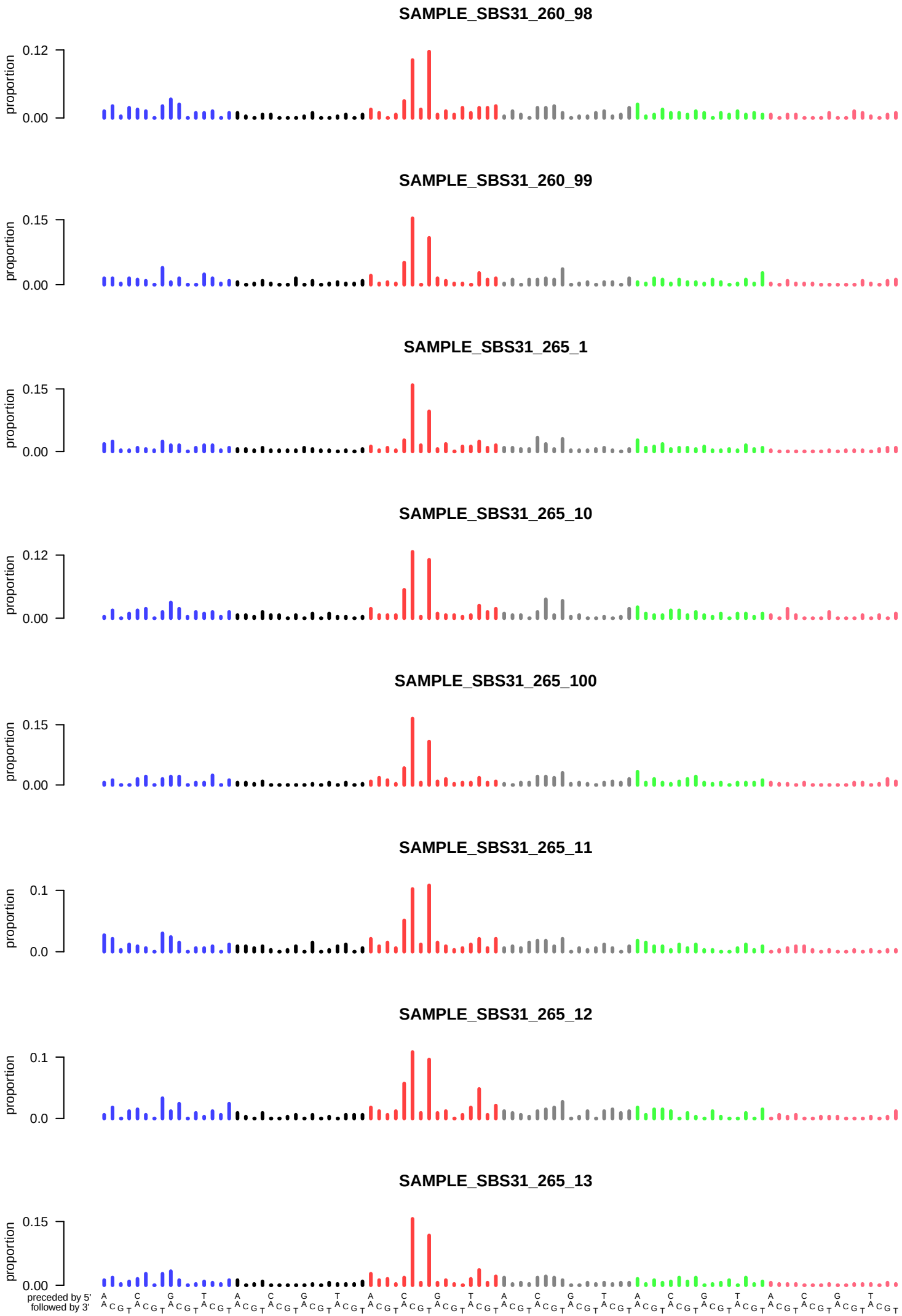
preceded by 5'
followed by 3'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SAMPLE_SBS31_265_1
proportion
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SAMPLE_SBS31_265_10
proportion
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SAMPLE_SBS31_265_100
proportion
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SAMPLE_SBS31_265_11
proportion
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SAMPLE_SBS31_265_12
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SAMPLE_SBS31_265_13
proportion
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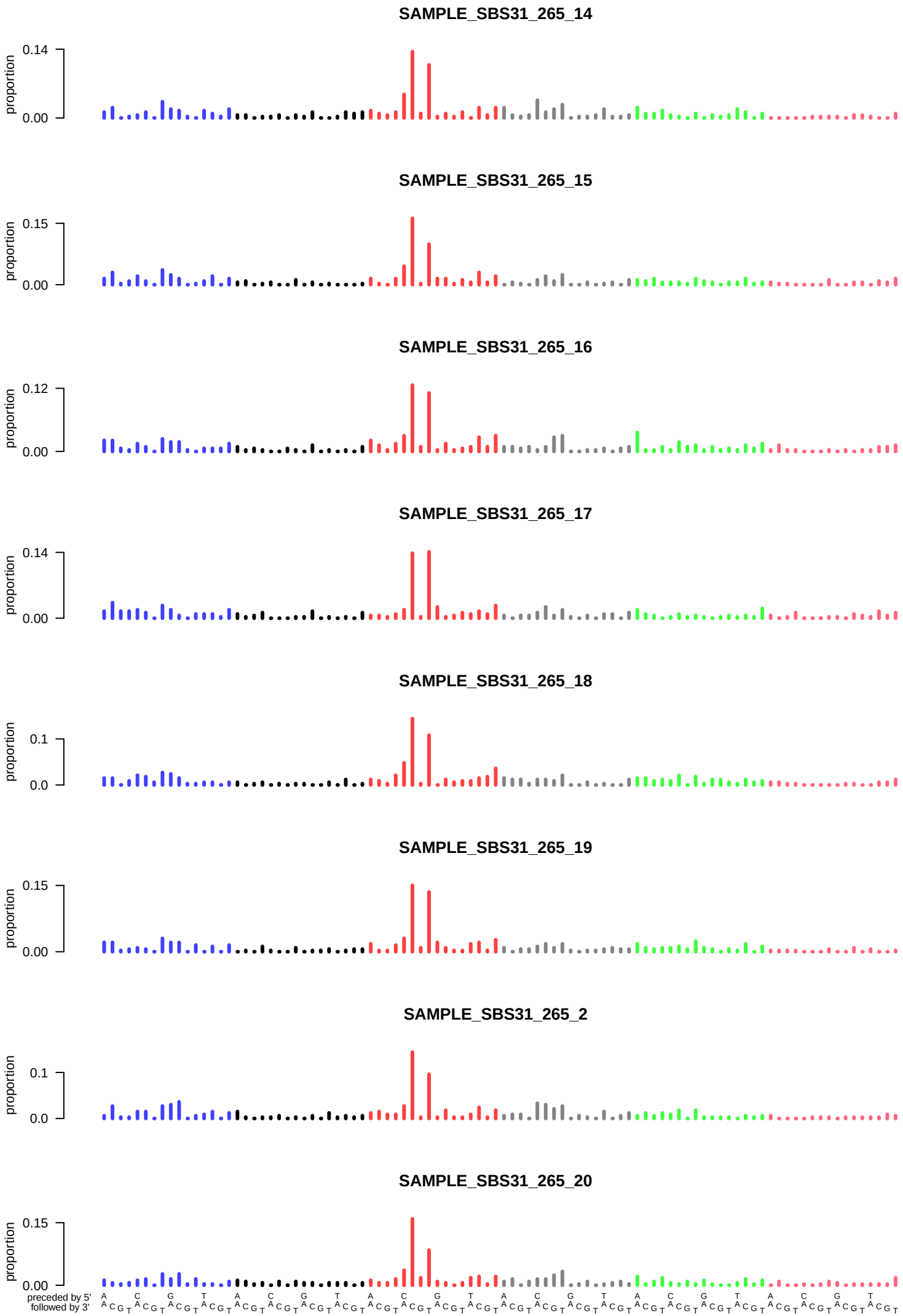
preceded by 5'
followed by 3'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SAMPLE_SBS31_265_16
proportion
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SAMPLE_SBS31_265_17
proportion
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SAMPLE_SBS31_265_18
proportion
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SAMPLE_SBS31_265_19
proportion
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SAMPLE_SBS31_265_2
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SAMPLE_SBS31_265_20
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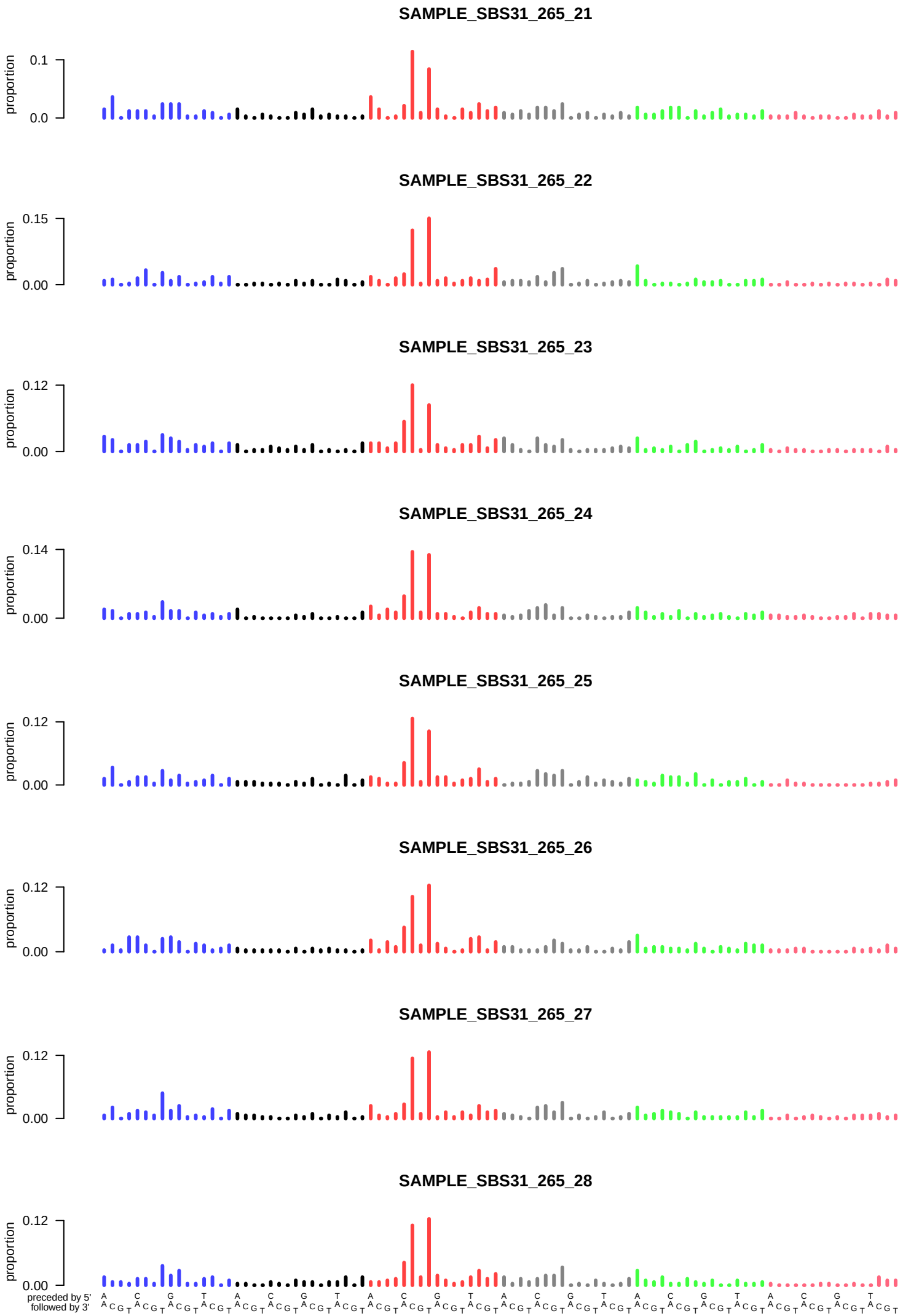
preceded by 5'
followed by 3'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proportion
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SAMPLE_SBS31_265_24
proportion
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SAMPLE_SBS31_265_25
proportion
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SAMPLE_SBS31_265_26
proportion
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SAMPLE_SBS31_265_27
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SAMPLE_SBS31_265_28
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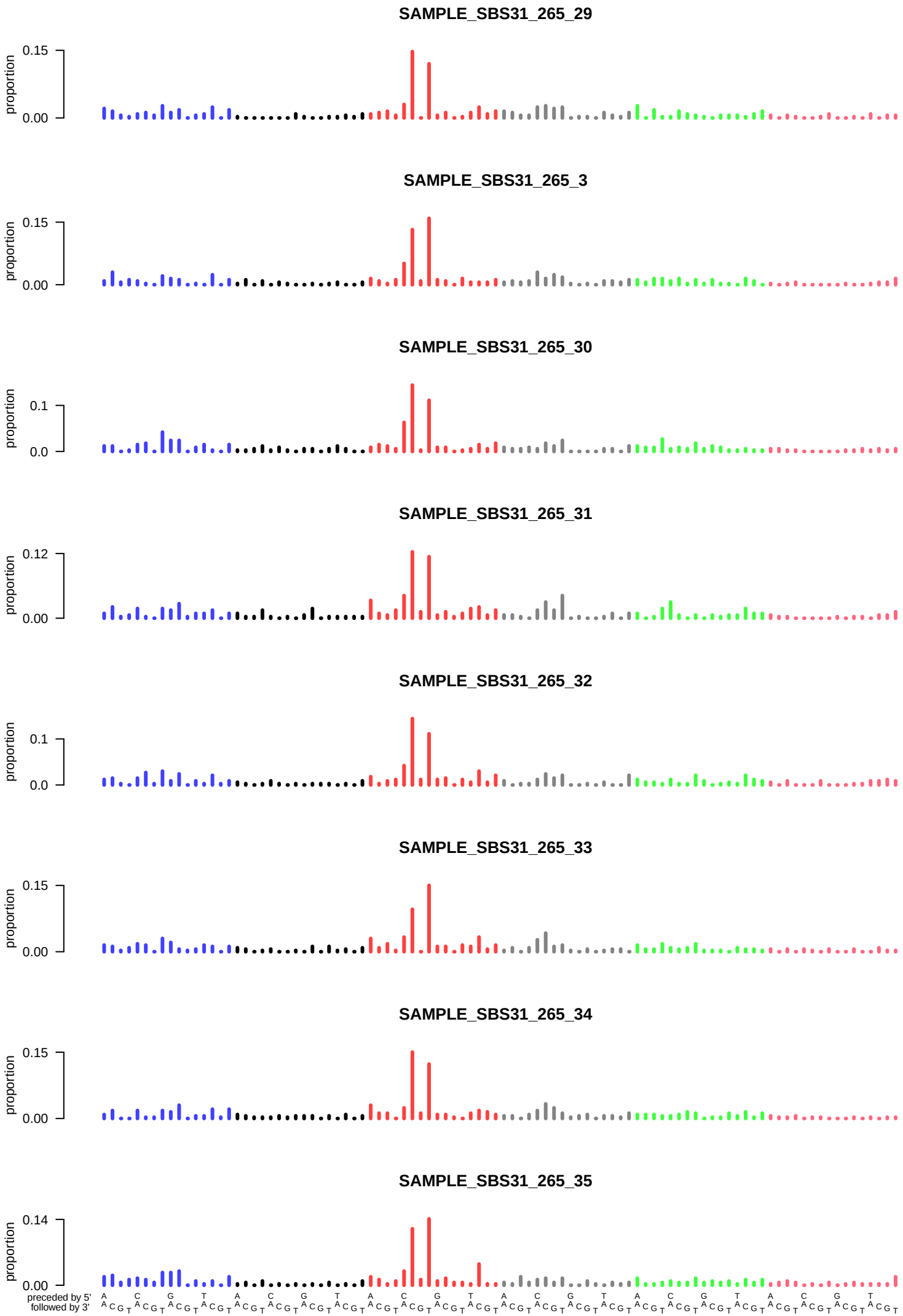
preceded by 5'
followed by 3'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SAMPLE_SBS31_265_30
proportion
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SAMPLE_SBS31_265_31
proportion
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SAMPLE_SBS31_265_32
proportion
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SAMPLE_SBS31_265_33
proportion
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SAMPLE_SBS31_265_34
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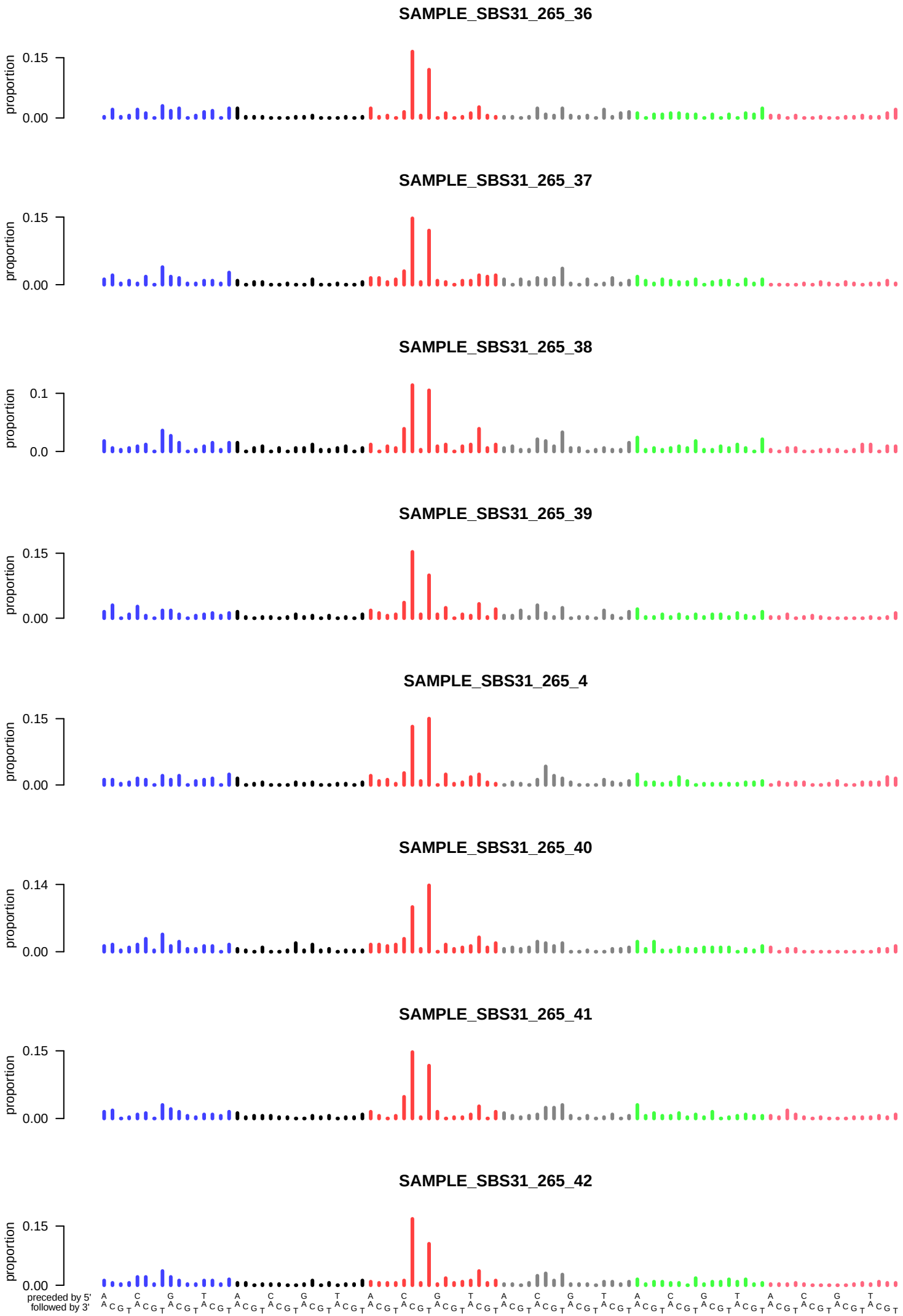
preceded by 5'
followed by 3'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SAMPLE_SBS31_265_39
proportion
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SAMPLE_SBS31_265_4
proportion
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SAMPLE_SBS31_265_40
proportion
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SAMPLE_SBS31_265_41
proportion
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proportion
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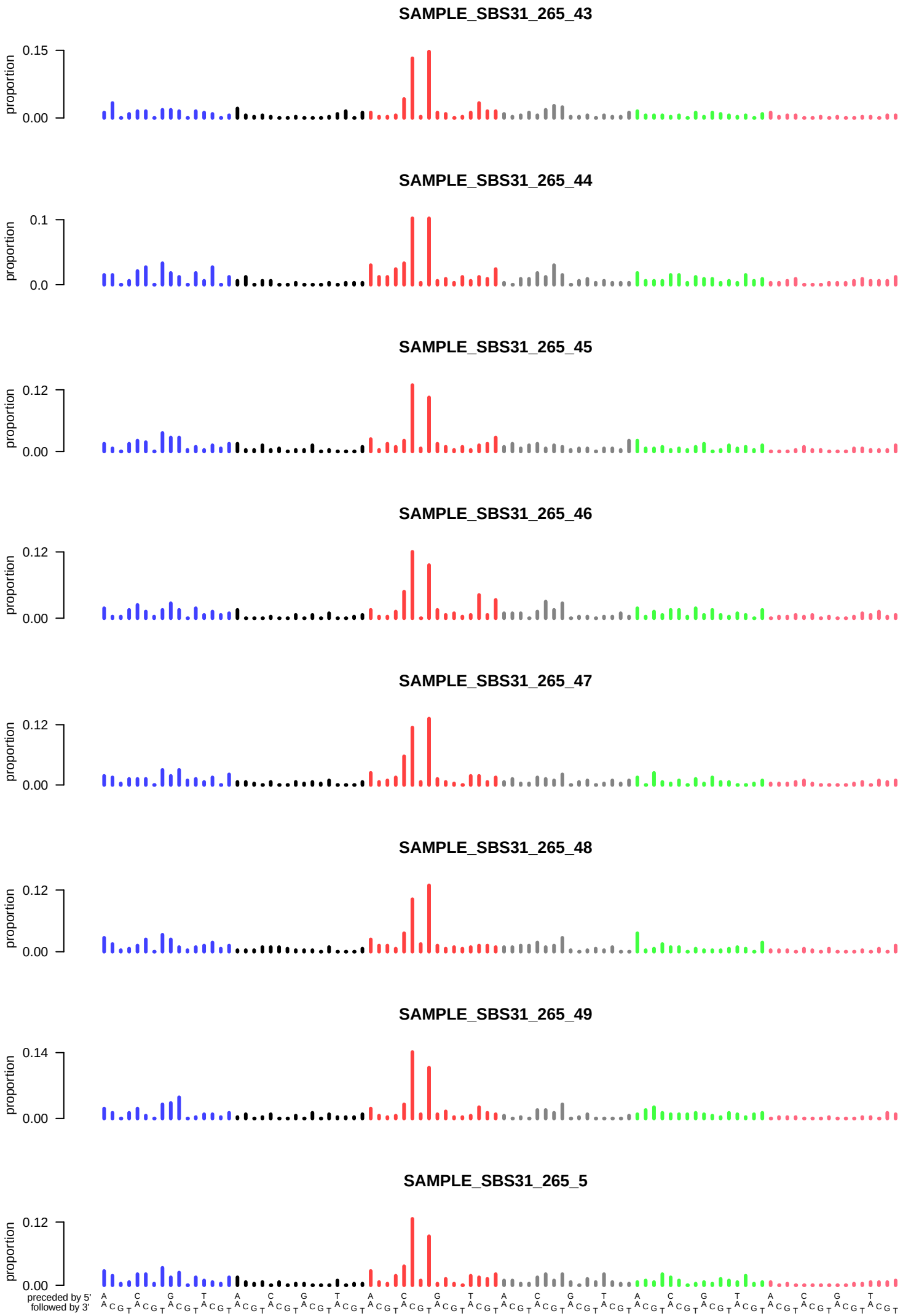
0.00
preceded by 5'
followed by 3'
A C G T A C G T A C G T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SAMPLE_SBS31_265_45
proportion
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SAMPLE_SBS31_265_46
proportion
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SAMPLE_SBS31_265_47
proportion
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SAMPLE_SBS31_265_48
proportion
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0.00
SAMPLE_SBS31_265_49
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SAMPLE_SBS31_265_5
proportion
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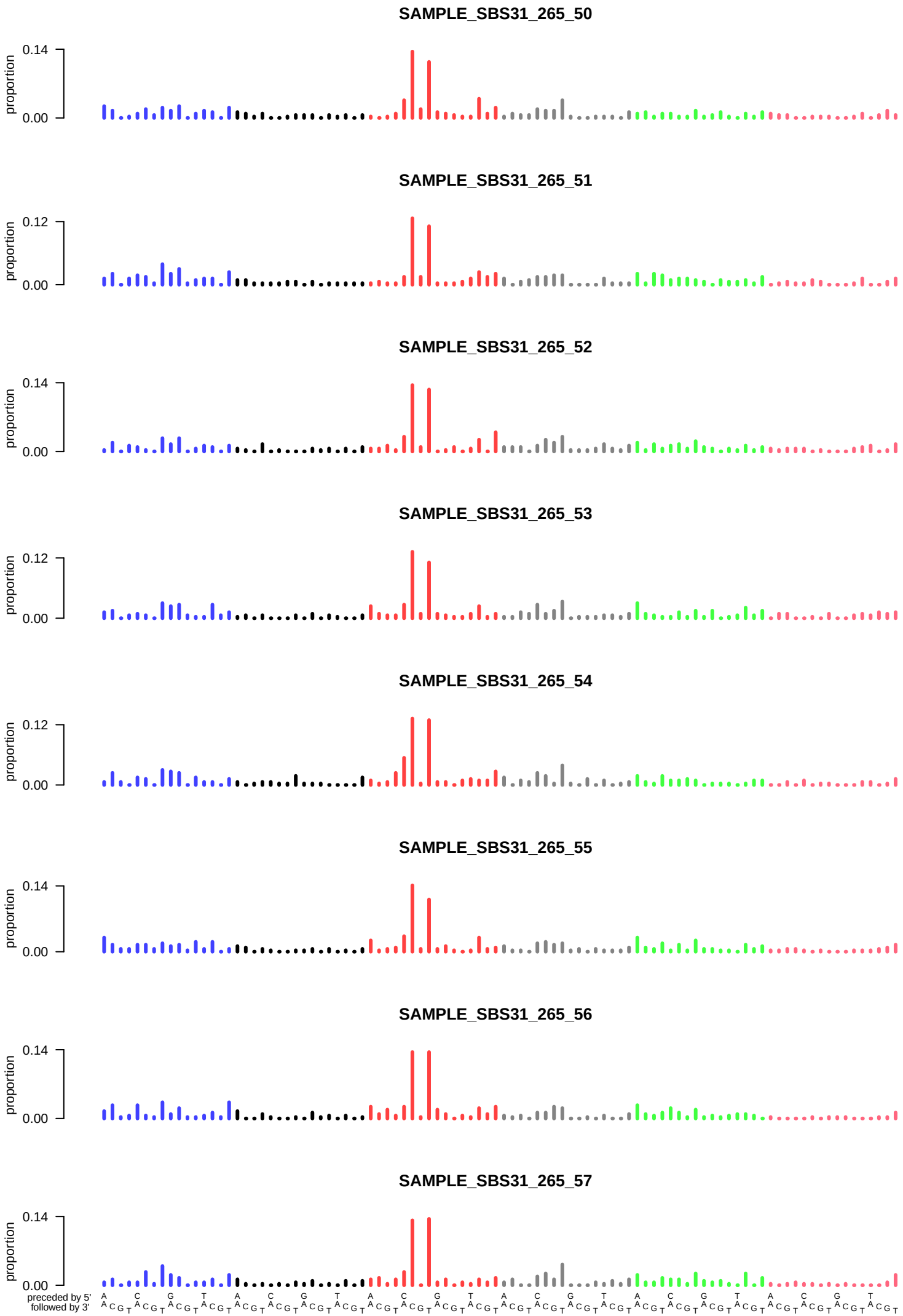
0.00
preceded by 5'
followed by 3'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SAMPLE_SBS31_265_55
proportion
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SAMPLE_SBS31_265_56
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SAMPLE_SBS31_265_57
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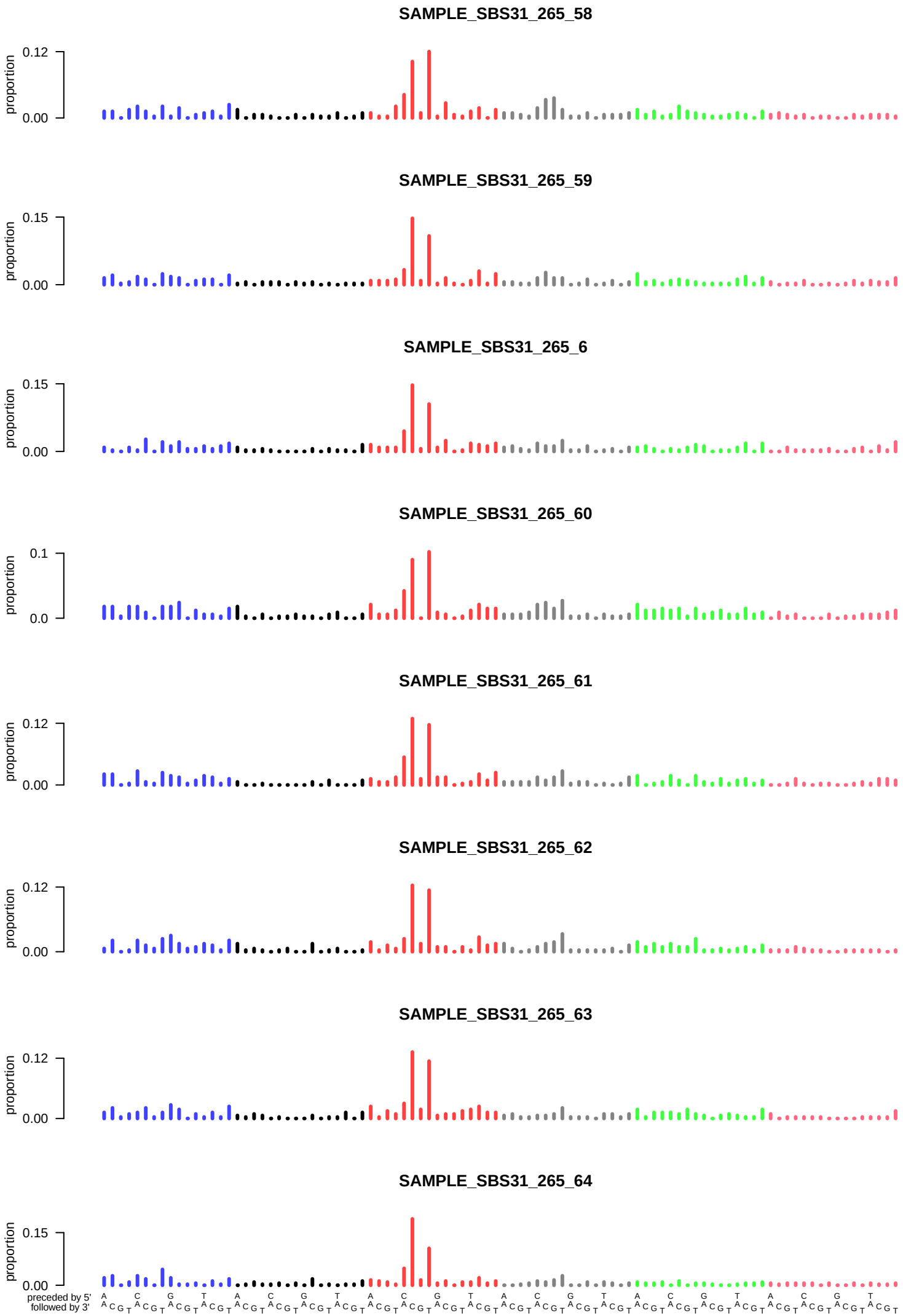
preceded by 5'
followed by 3'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SAMPLE_SBS31_265_6
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SAMPLE_SBS31_265_60
proportion
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SAMPLE_SBS31_265_61
proportion
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SAMPLE_SBS31_265_62
proportion
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SAMPLE_SBS31_265_63
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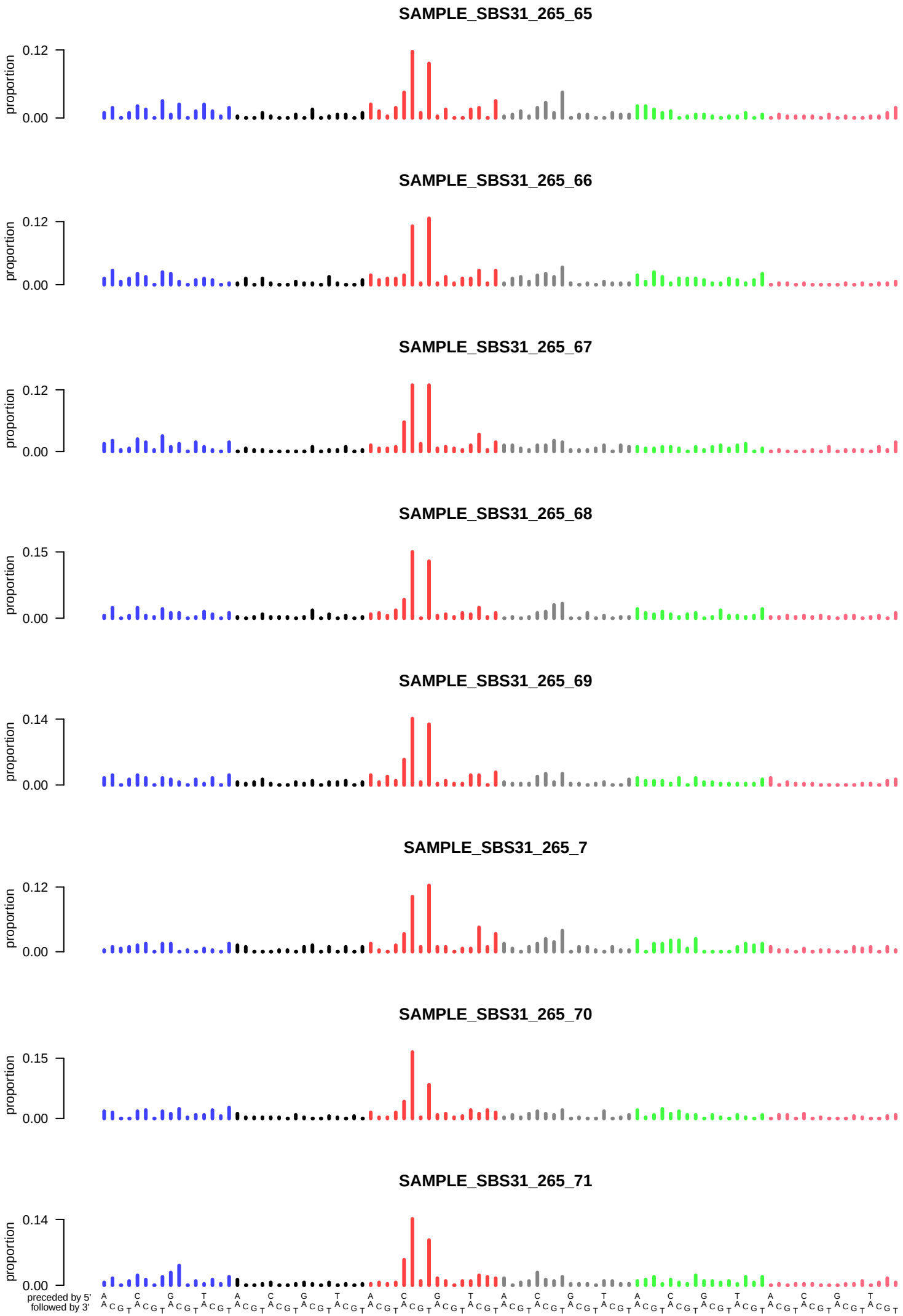
preceded by 5'
followed by 3'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SAMPLE_SBS31_265_7
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SAMPLE_SBS31_265_70
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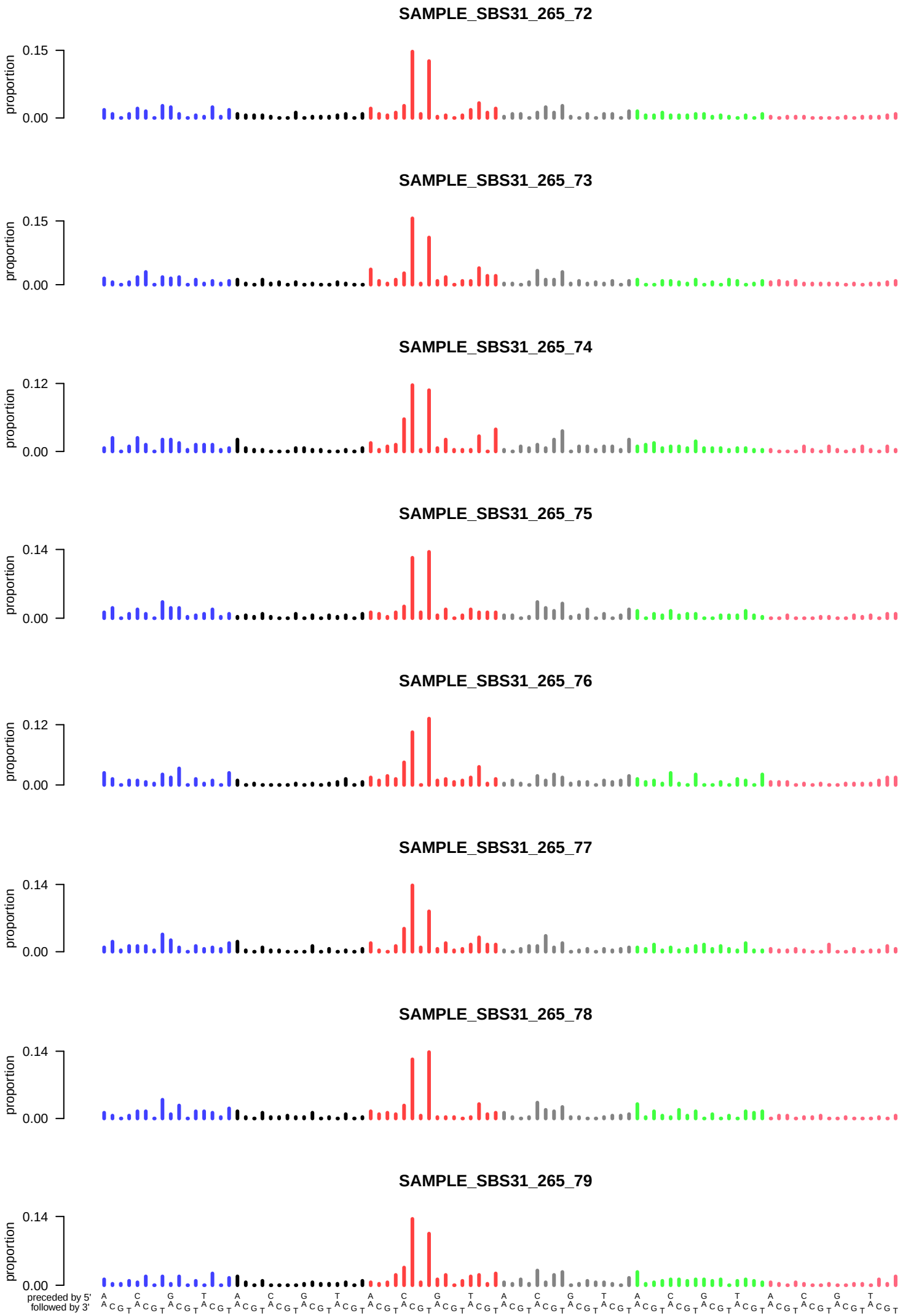
preceded by 5'
followed by 3'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SAMPLE_SBS31_265_75
proportion
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SAMPLE_SBS31_265_76
proportion
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SAMPLE_SBS31_265_77
proportion
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SAMPLE_SBS31_265_78
proportion
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proportion
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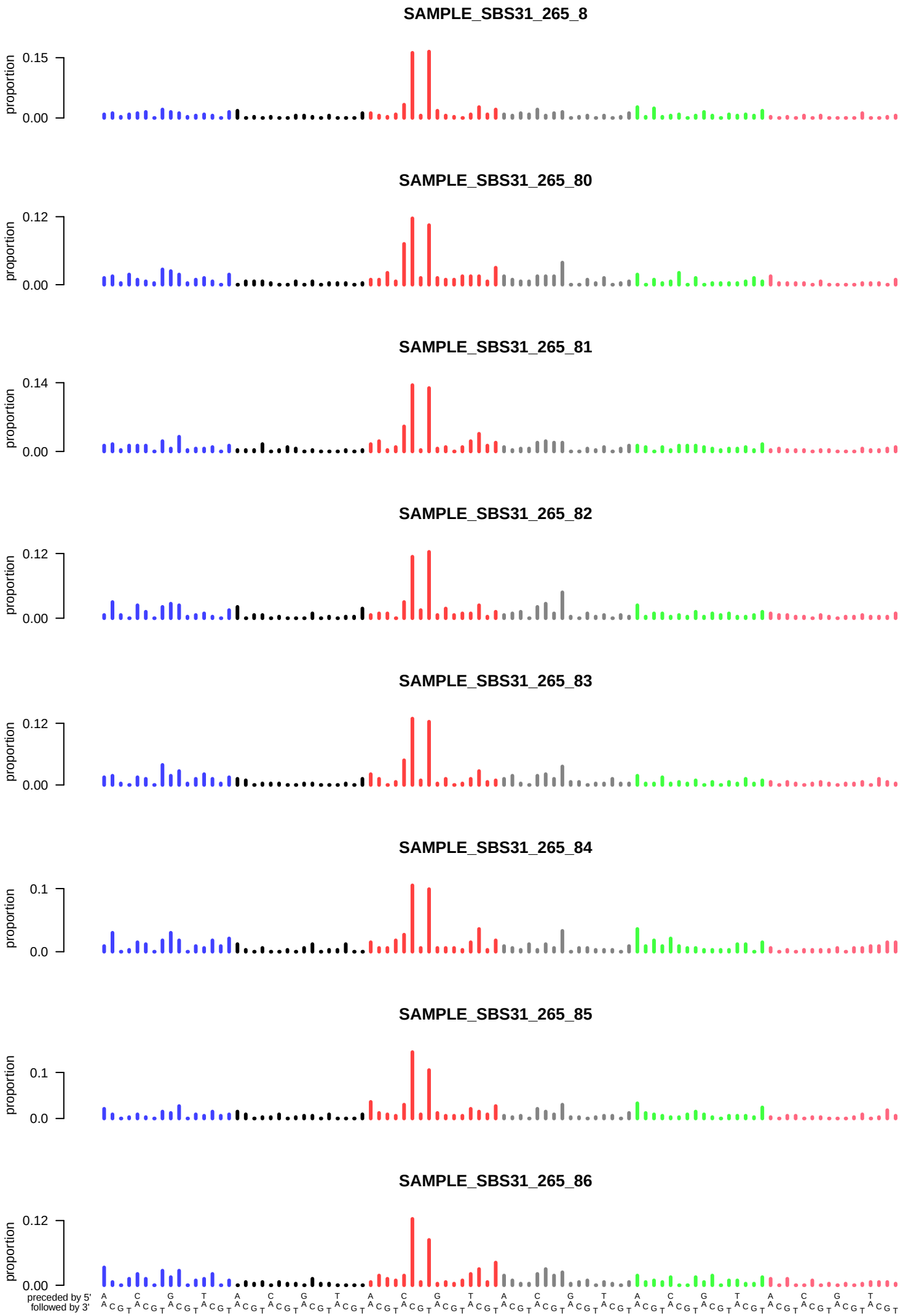
preceded by 5'
followed by 3'
A C G T A C G T A C G T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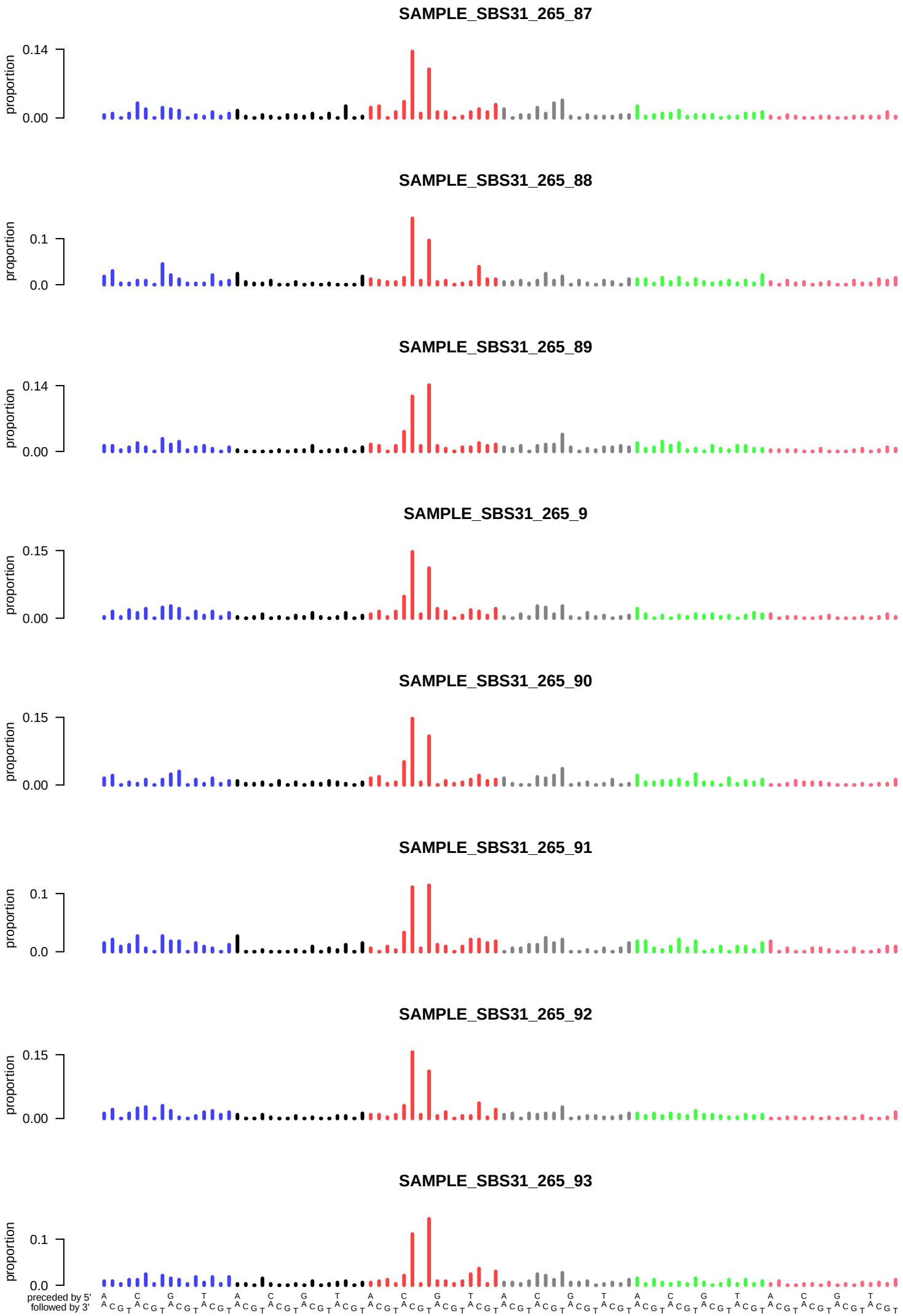
followed by 3'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SAMPLE_SBS31_265_9
proportion
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SAMPLE_SBS31_265_90
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SAMPLE_SBS31_265_91
proportion
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SAMPLE_SBS31_265_92
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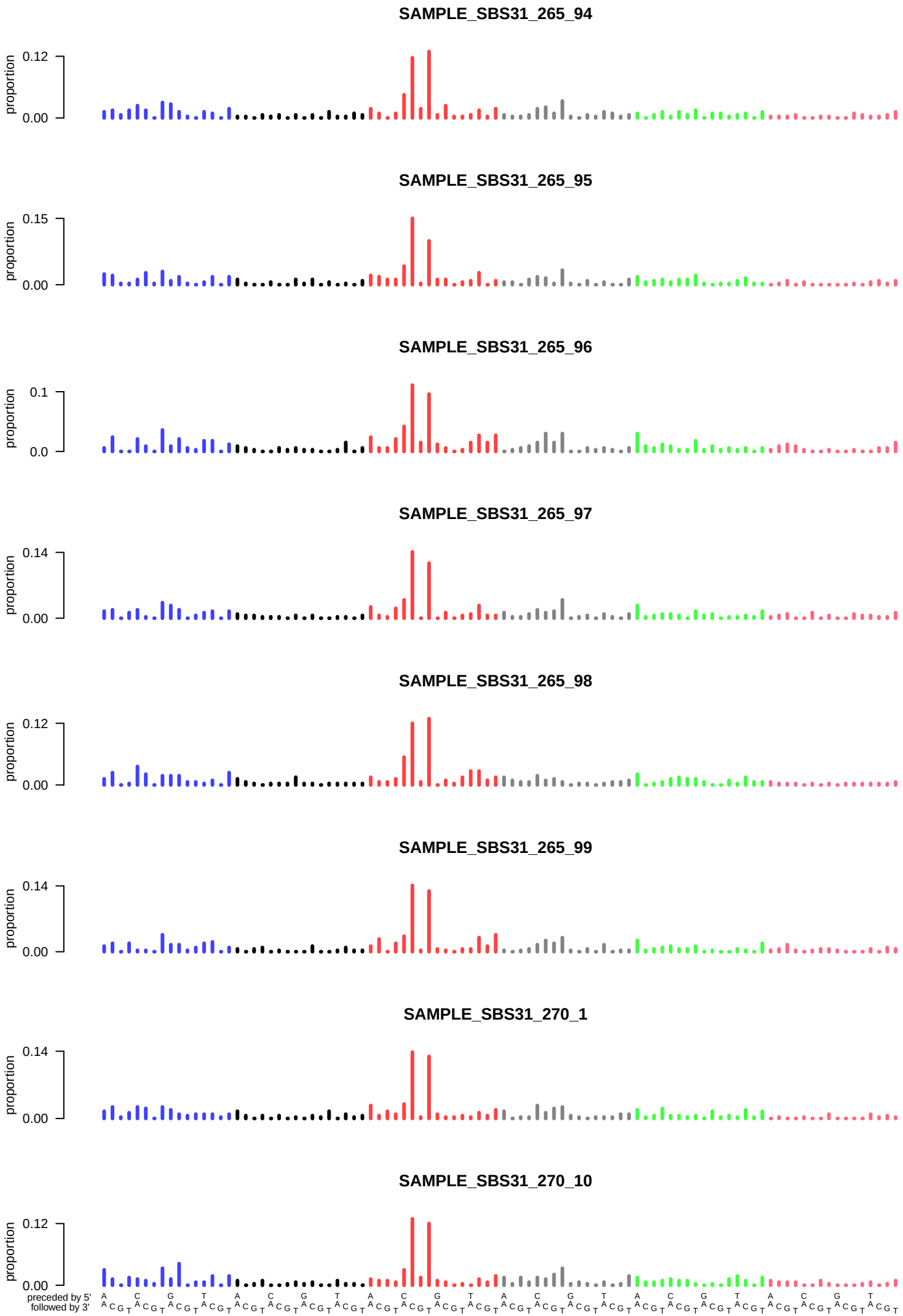
preceded by 5'
followed by 3'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SAMPLE_SBS31_265_99
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SAMPLE_SBS31_270_1
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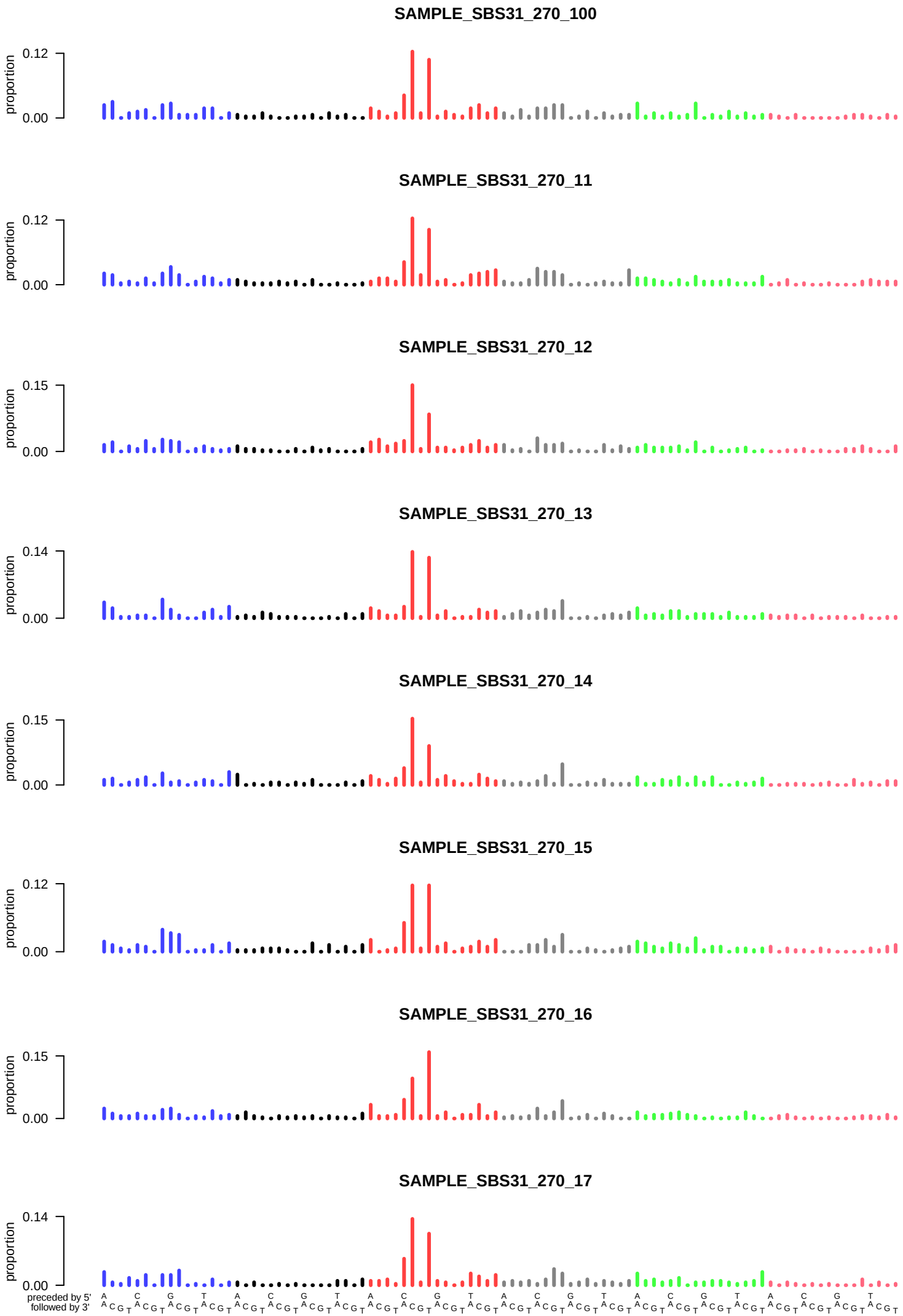
followed by 3'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proportion
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SAMPLE_SBS31_270_16
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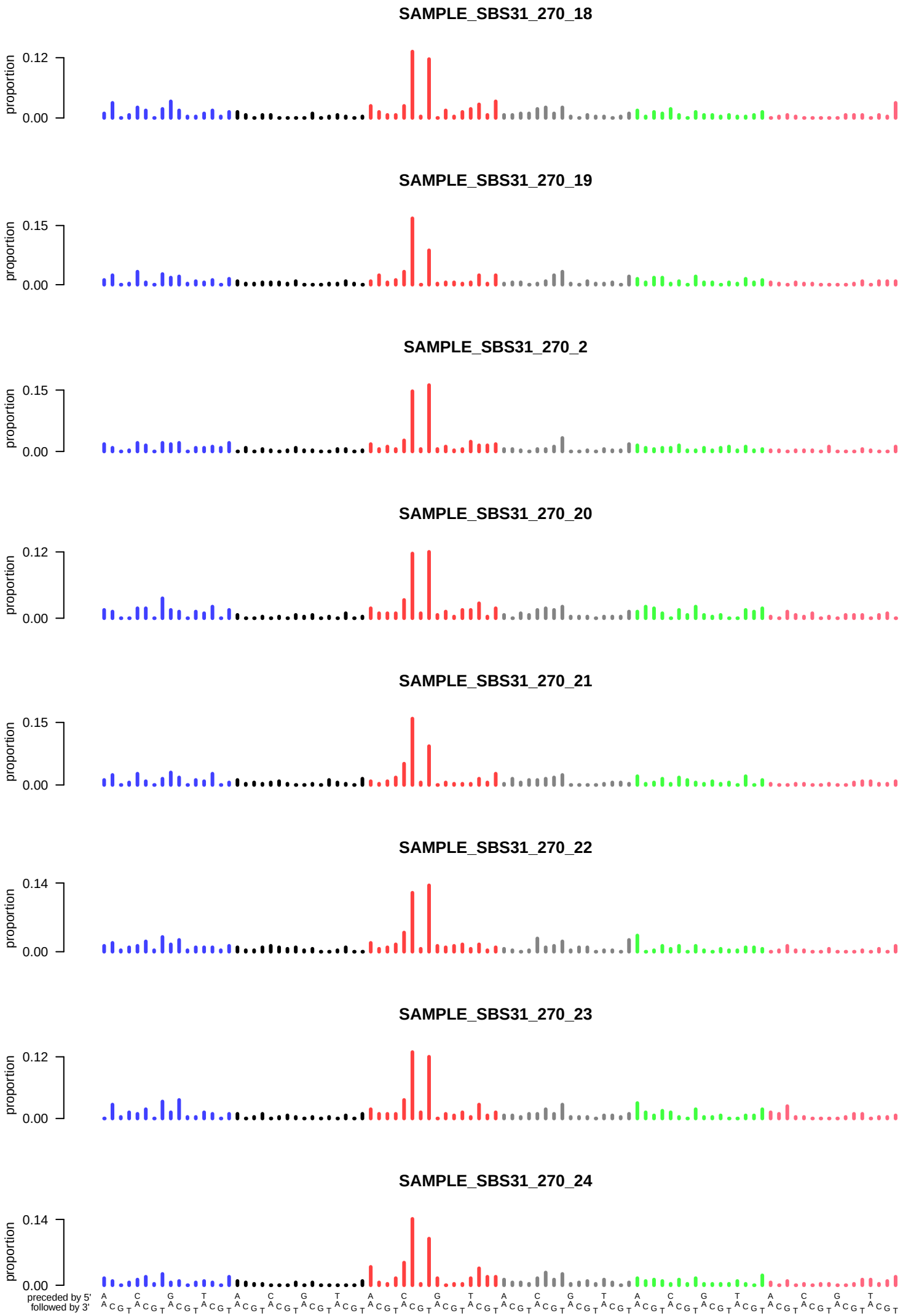
followed by 3'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SAMPLE_SBS31_270_21
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SAMPLE_SBS31_270_22
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SAMPLE_SBS31_270_23
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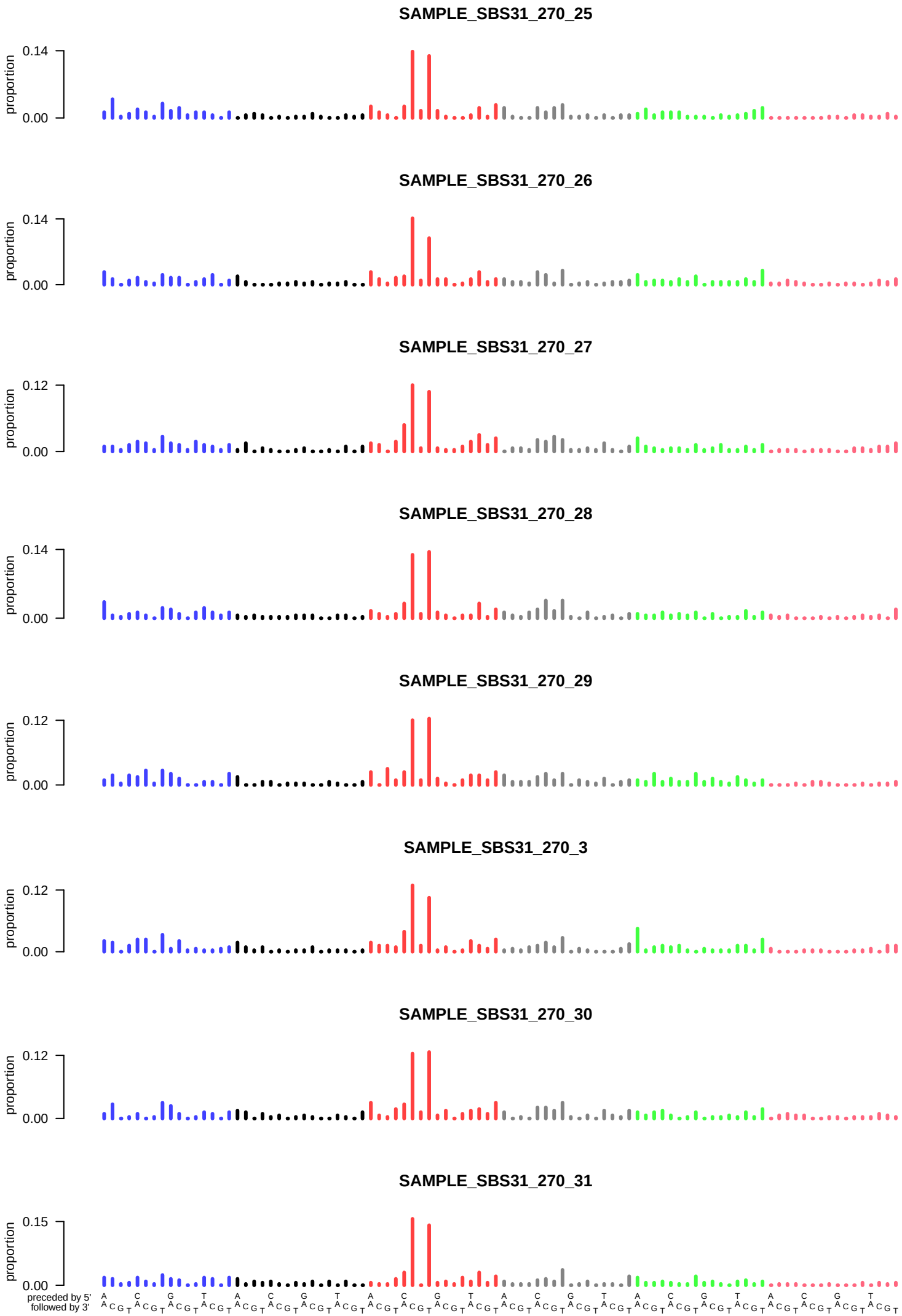
followed by 3'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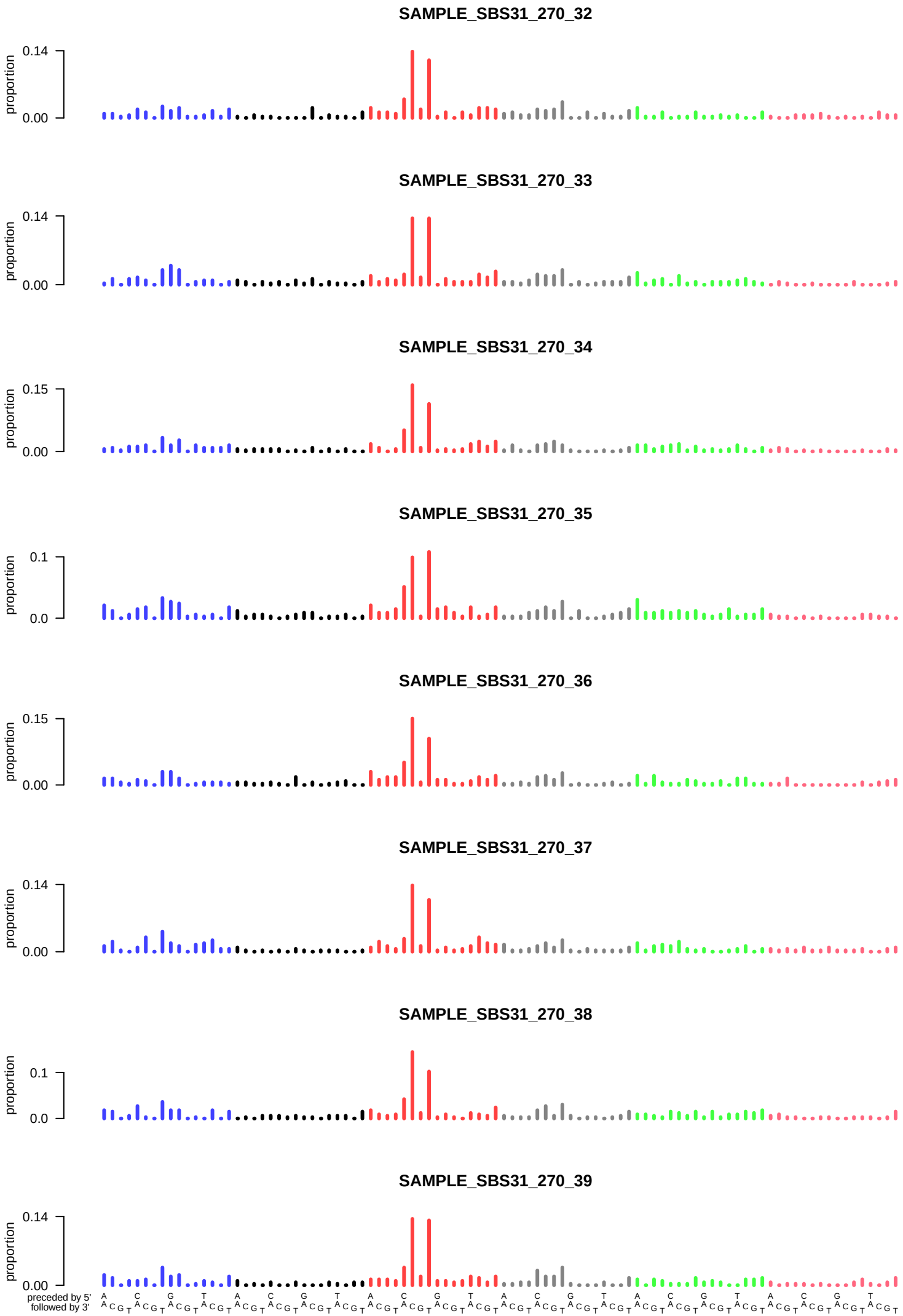
preceded by 5'
followed by 3'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SAMPLE_SBS31_270_35
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SAMPLE_SBS31_270_37
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SAMPLE_SBS31_270_38
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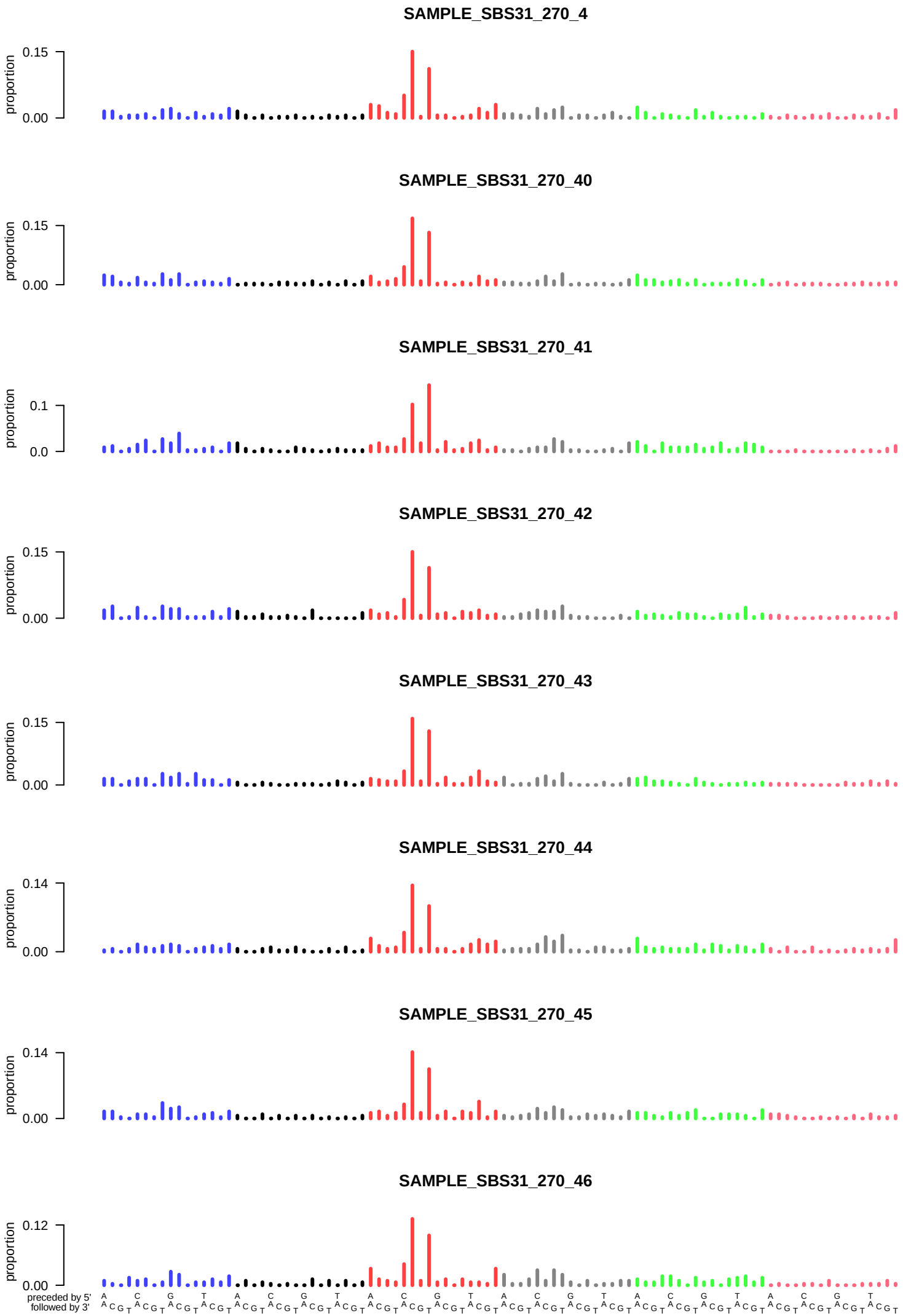
preceded by 5'
followed by 3'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SAMPLE_SBS31_270_45
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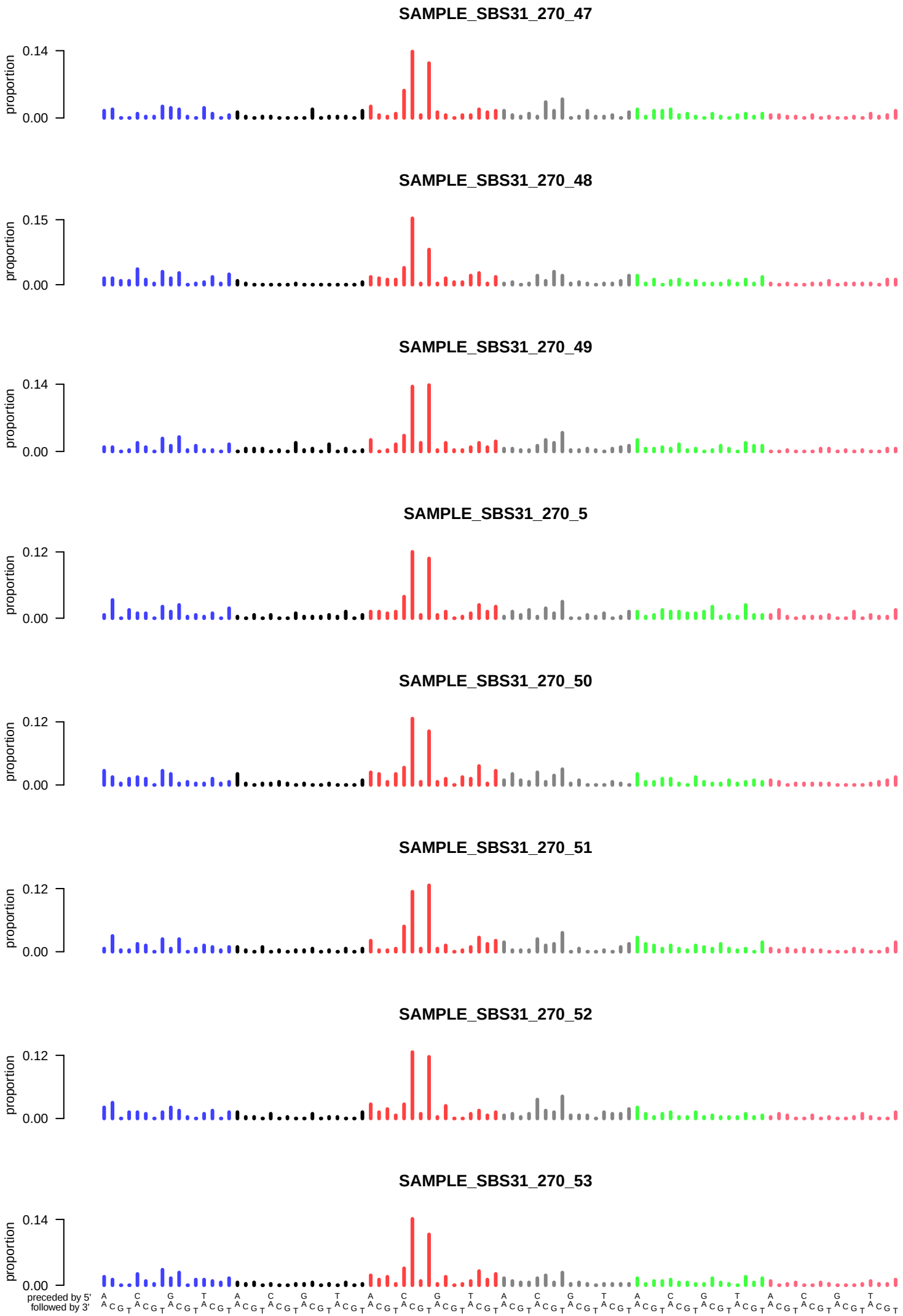
preceded by 5'
followed by 3'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proportion
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SAMPLE_SBS31_270_51
proportion
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SAMPLE_SBS31_270_52
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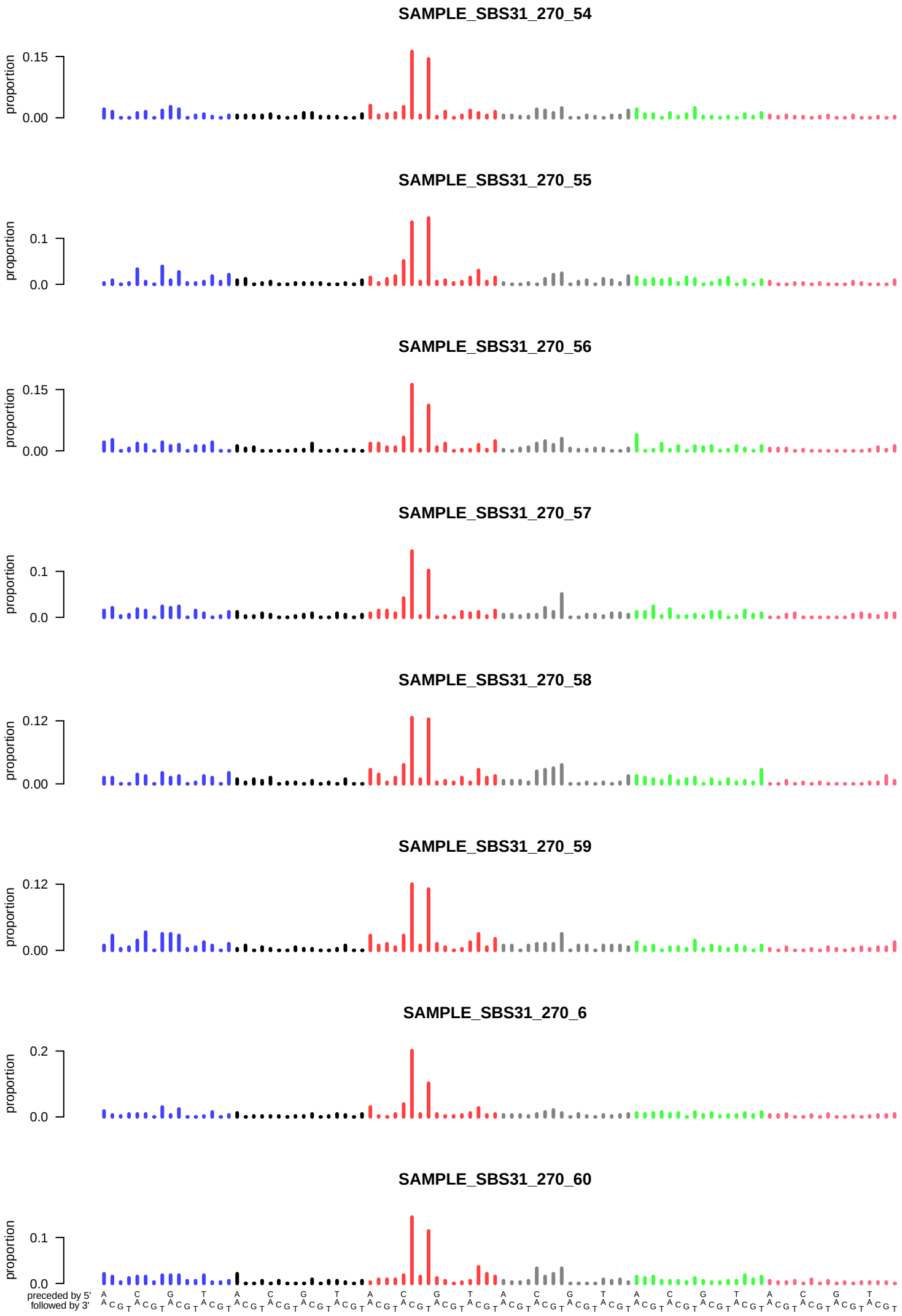
preceded by 5'
followed by 3'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SAMPLE_SBS31_270_58
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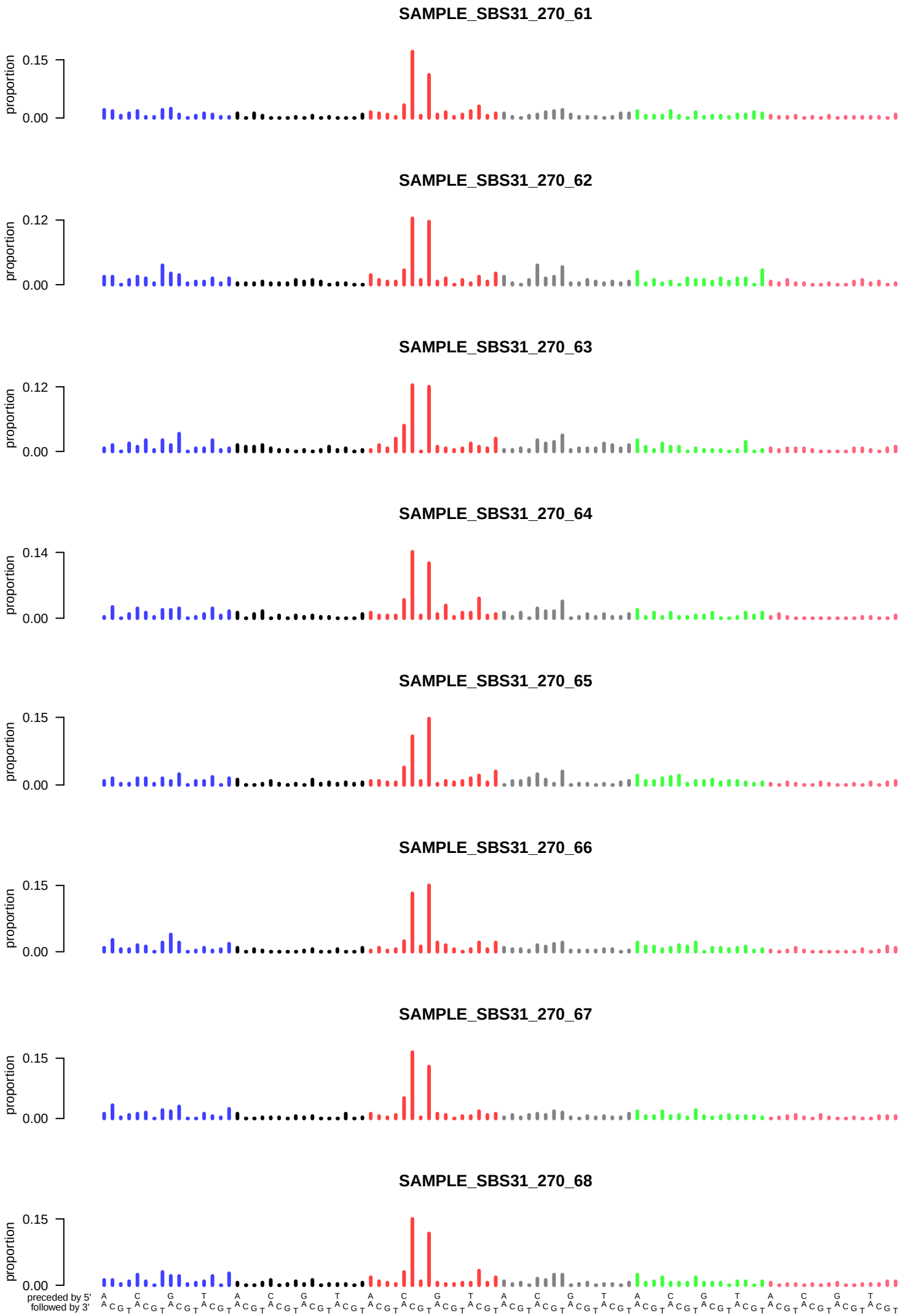
followed by 3'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SAMPLE_SBS31_270_67
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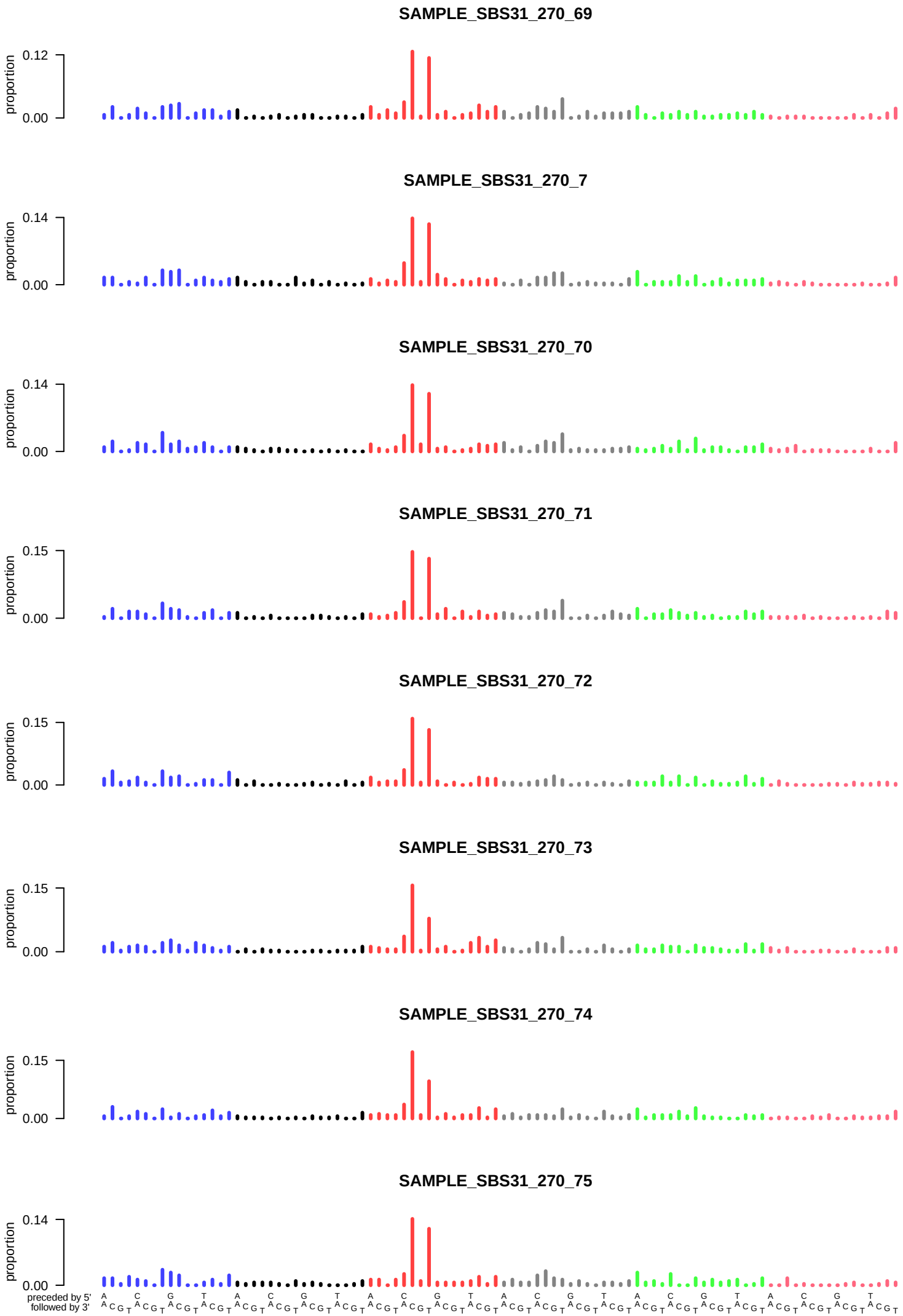
preceded by 5'
followed by 3'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SAMPLE_SBS31_270_71
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SAMPLE_SBS31_270_72
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SAMPLE_SBS31_270_73
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SAMPLE_SBS31_270_74
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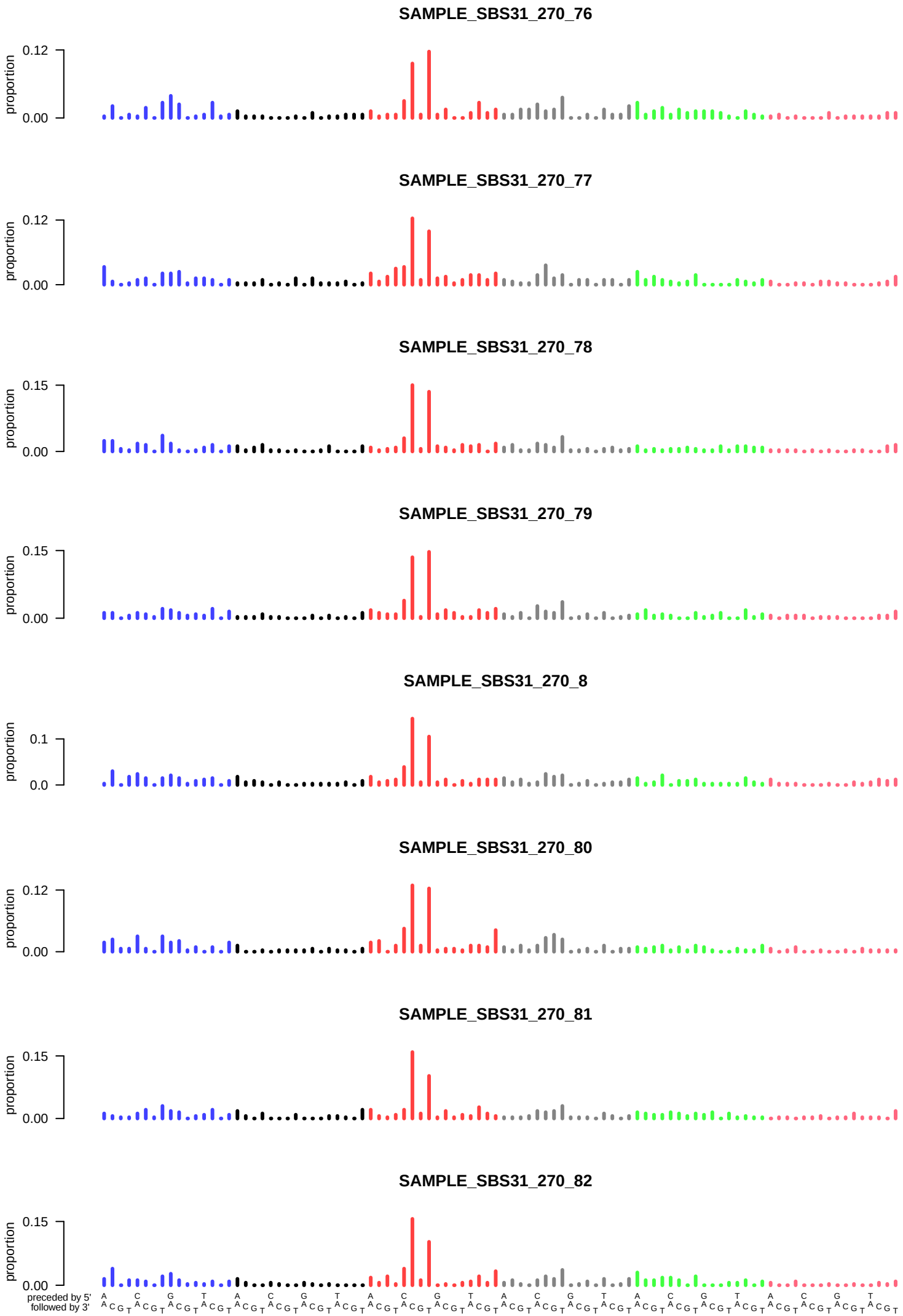
followed by 3'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SAMPLE_SBS31_270_80
proportion
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SAMPLE_SBS31_270_81
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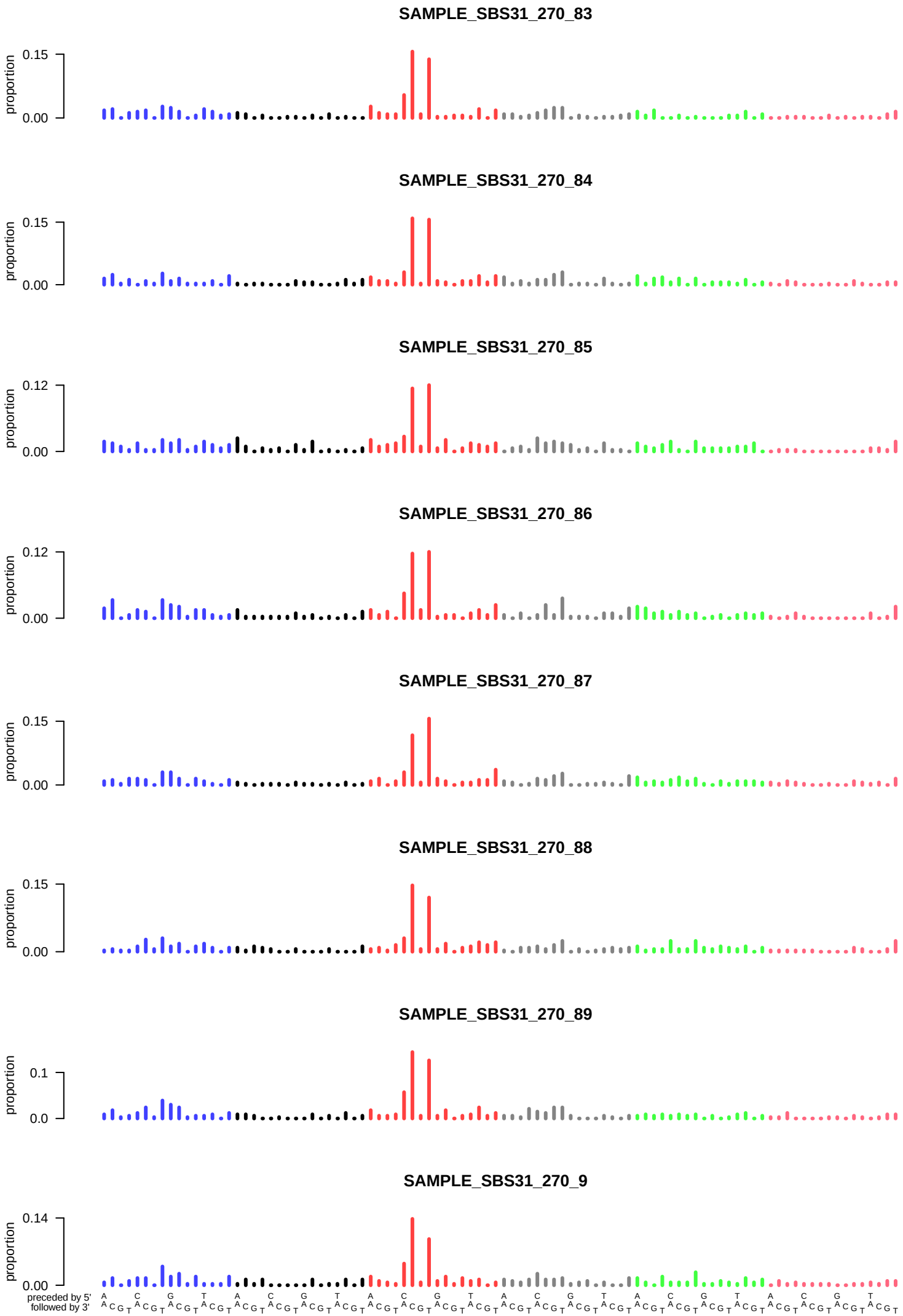
followed by 3'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SAMPLE_SBS31_270_88
proportion
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SAMPLE_SBS31_270_89
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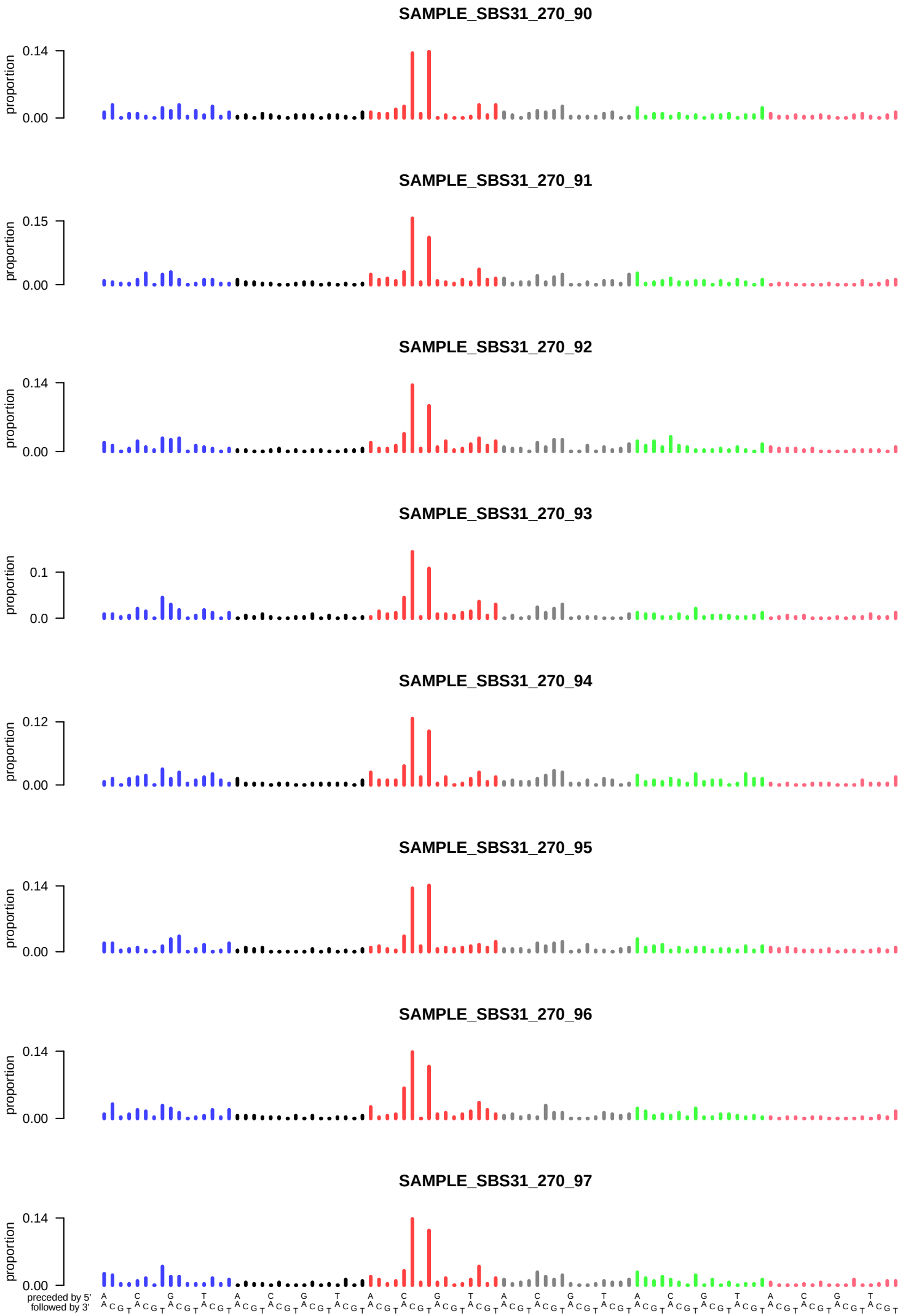
preceded by 5'
followed by 3'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proportion
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SAMPLE_SBS31_270_93
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SAMPLE_SBS31_270_95
proportion
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SAMPLE_SBS31_270_96
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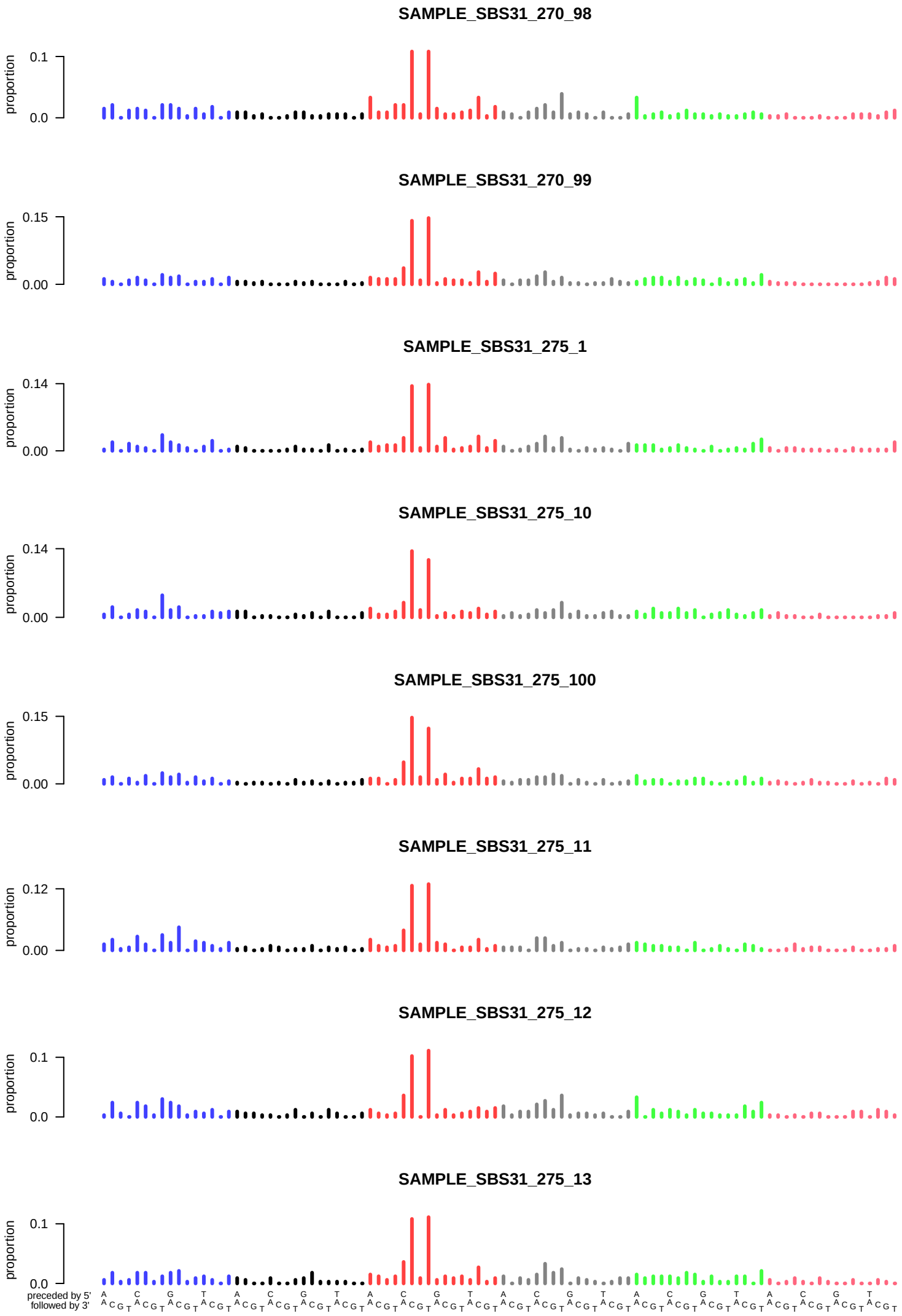
preceded by 5'
followed by 3'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SAMPLE_SBS31_275_10
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SAMPLE_SBS31_275_100
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SAMPLE_SBS31_275_11
proportion
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SAMPLE_SBS31_275_12
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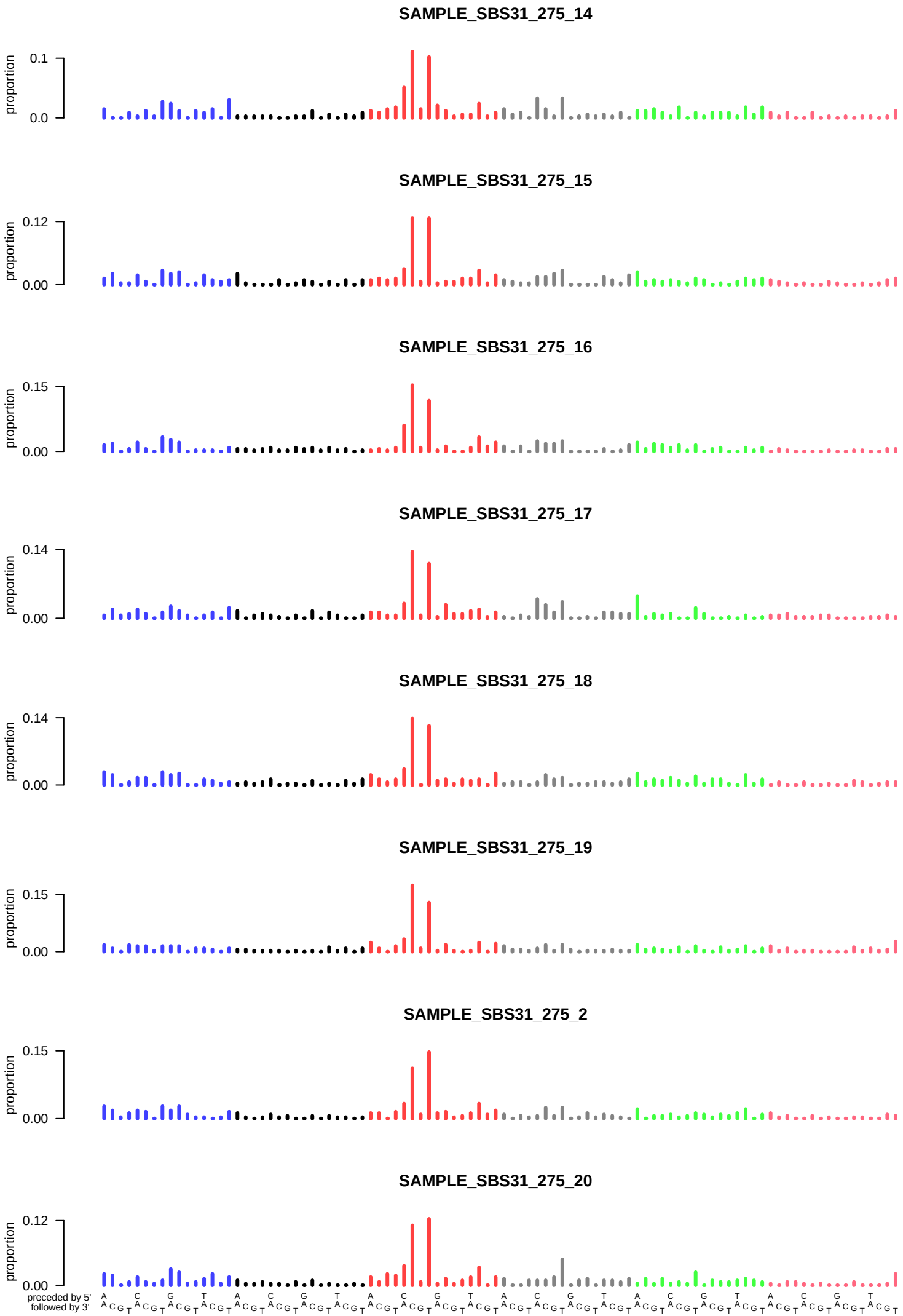
followed by 3'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SAMPLE_SBS31_275_16
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SAMPLE_SBS31_275_17
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SAMPLE_SBS31_275_18
proportion
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SAMPLE_SBS31_275_19
proportion
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SAMPLE_SBS31_275_2
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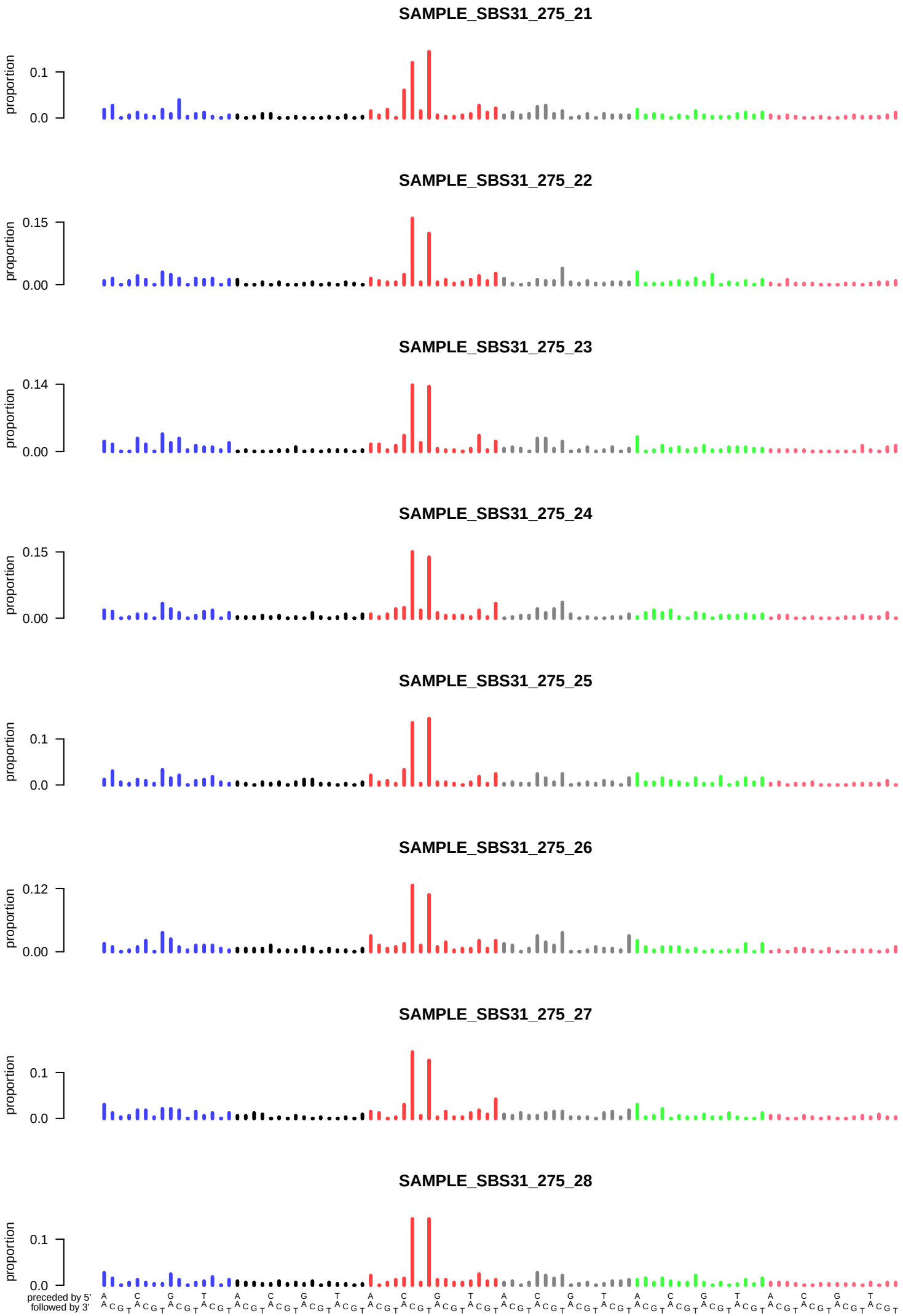
preceded by 5'
followed by 3'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SAMPLE_SBS31_275_25
proportion
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SAMPLE_SBS31_275_26
proportion
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SAMPLE_SBS31_275_27
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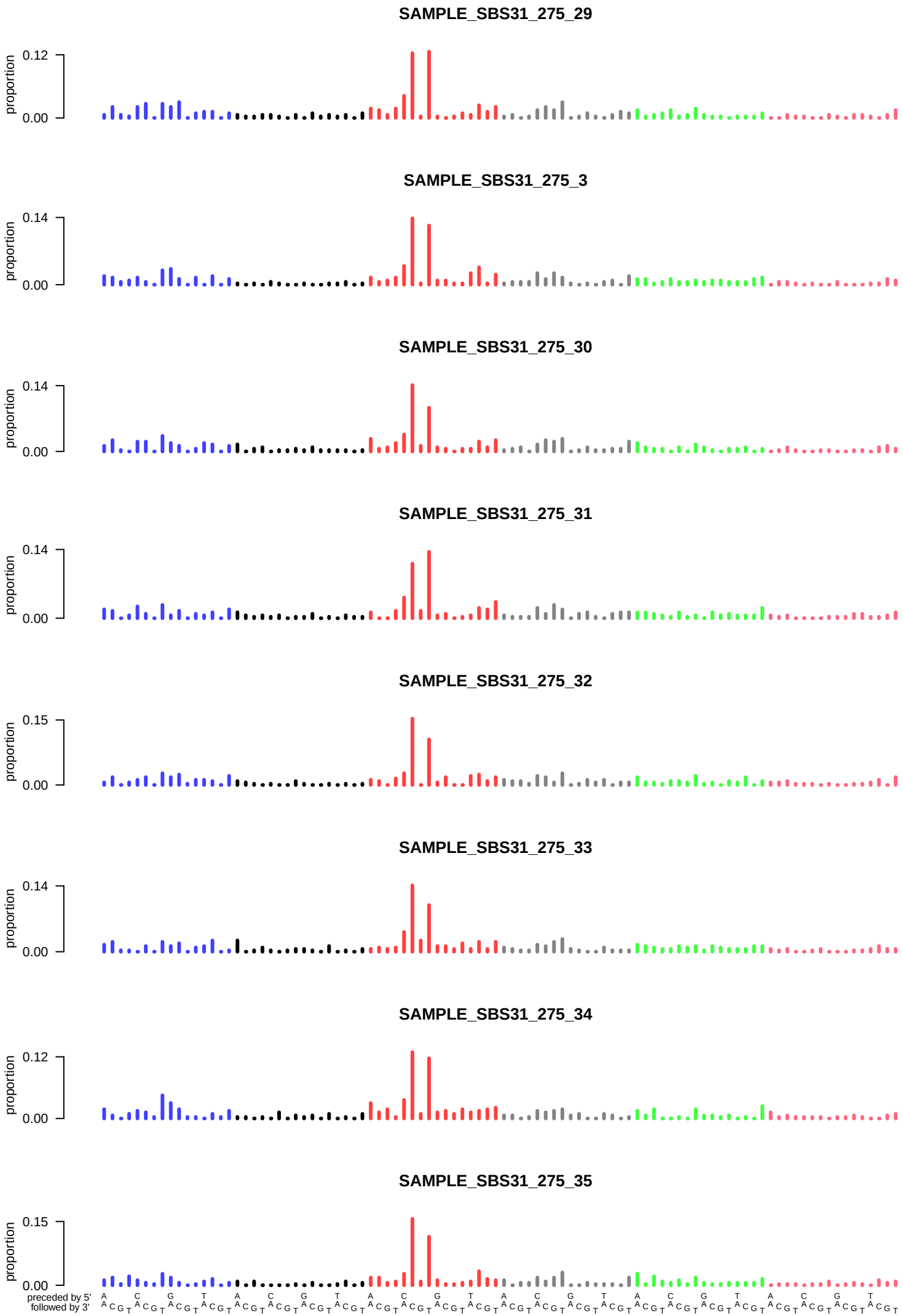
preceded by 5'
followed by 3'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SAMPLE_SBS31_275_31
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SAMPLE_SBS31_275_32
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SAMPLE_SBS31_275_33
proportion
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SAMPLE_SBS31_275_34
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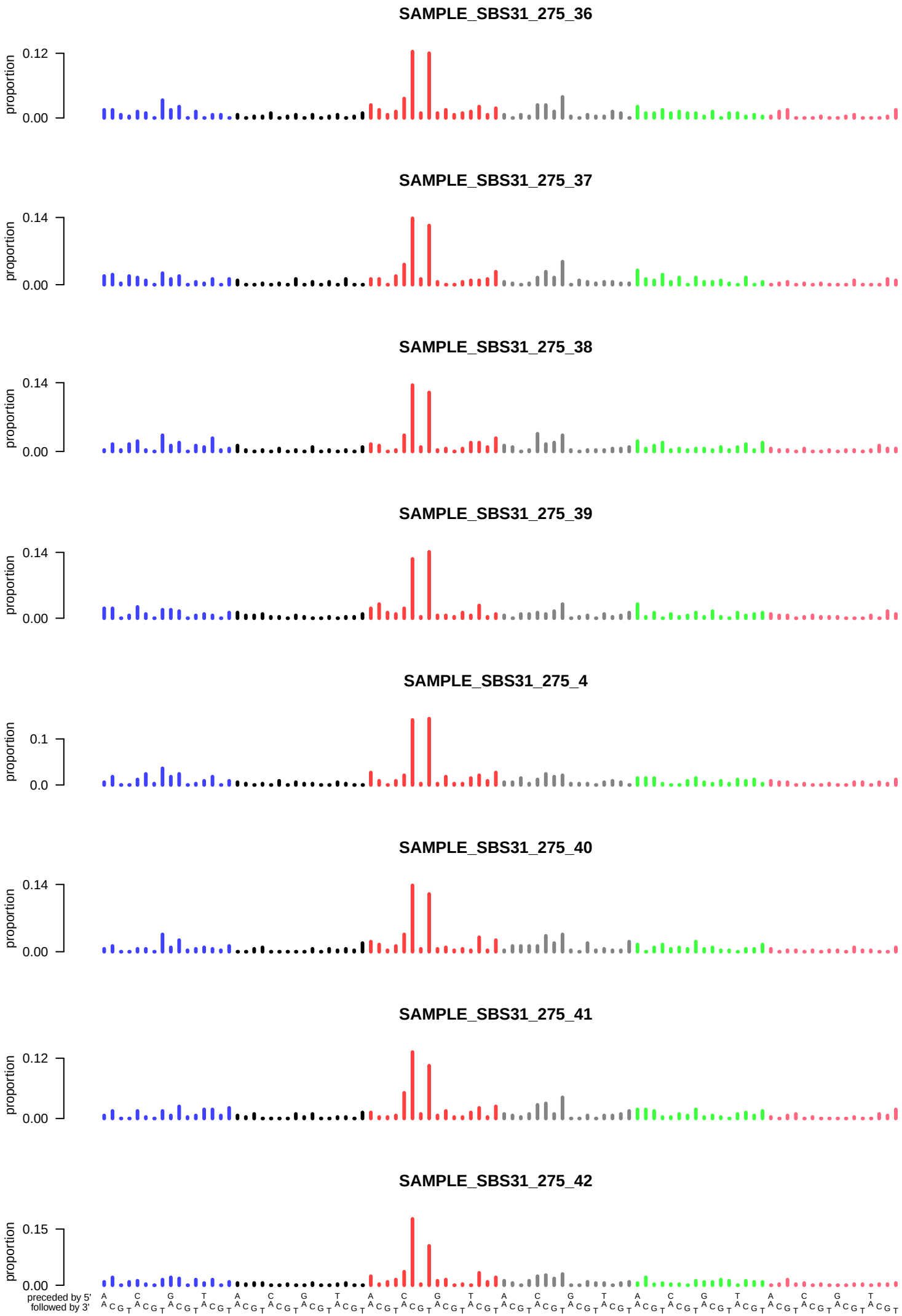
preceded by 5'
followed by 3'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SAMPLE_SBS31_275_40
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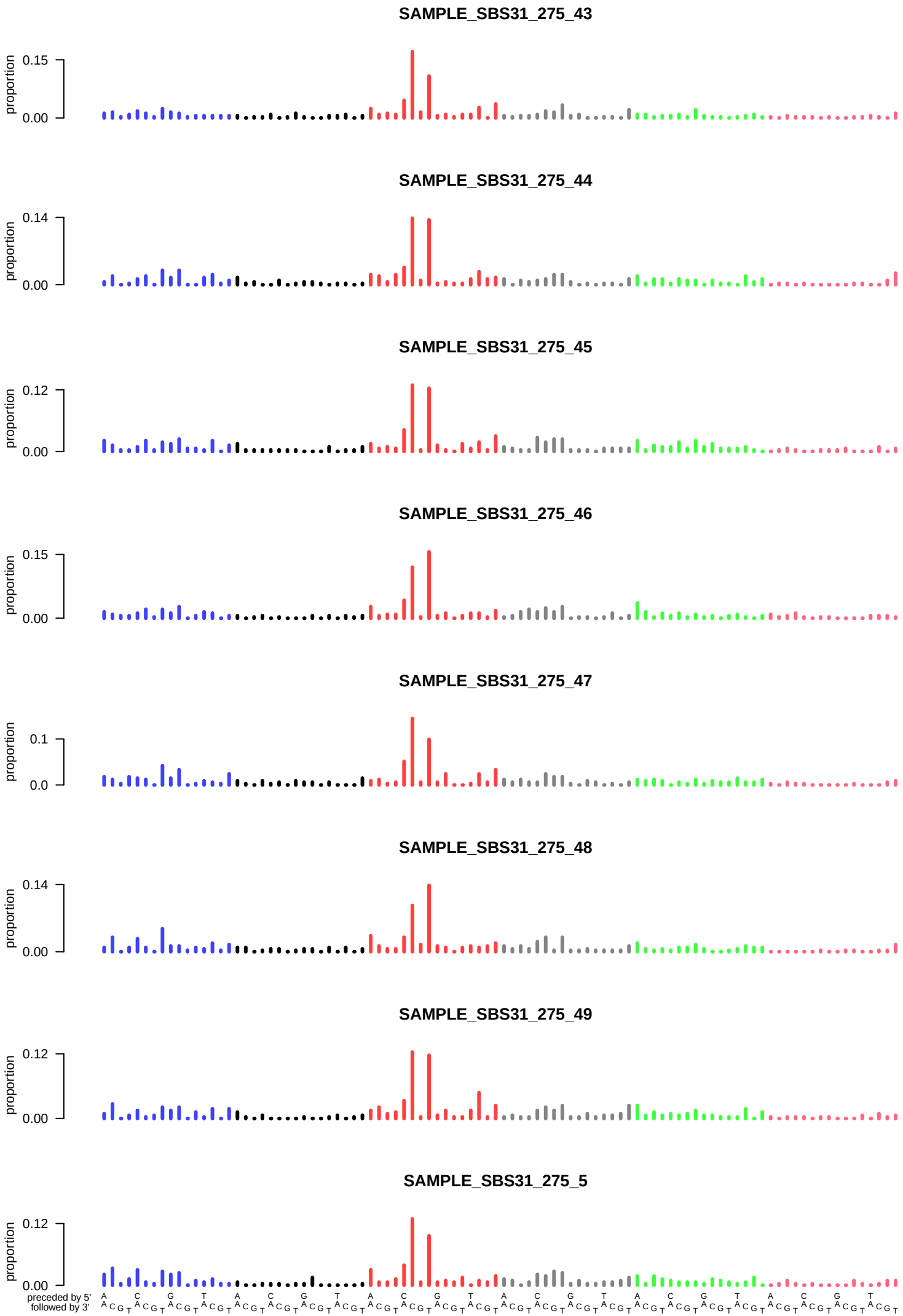
followed by 3'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SAMPLE_SBS31_275_47
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SAMPLE_SBS31_275_48
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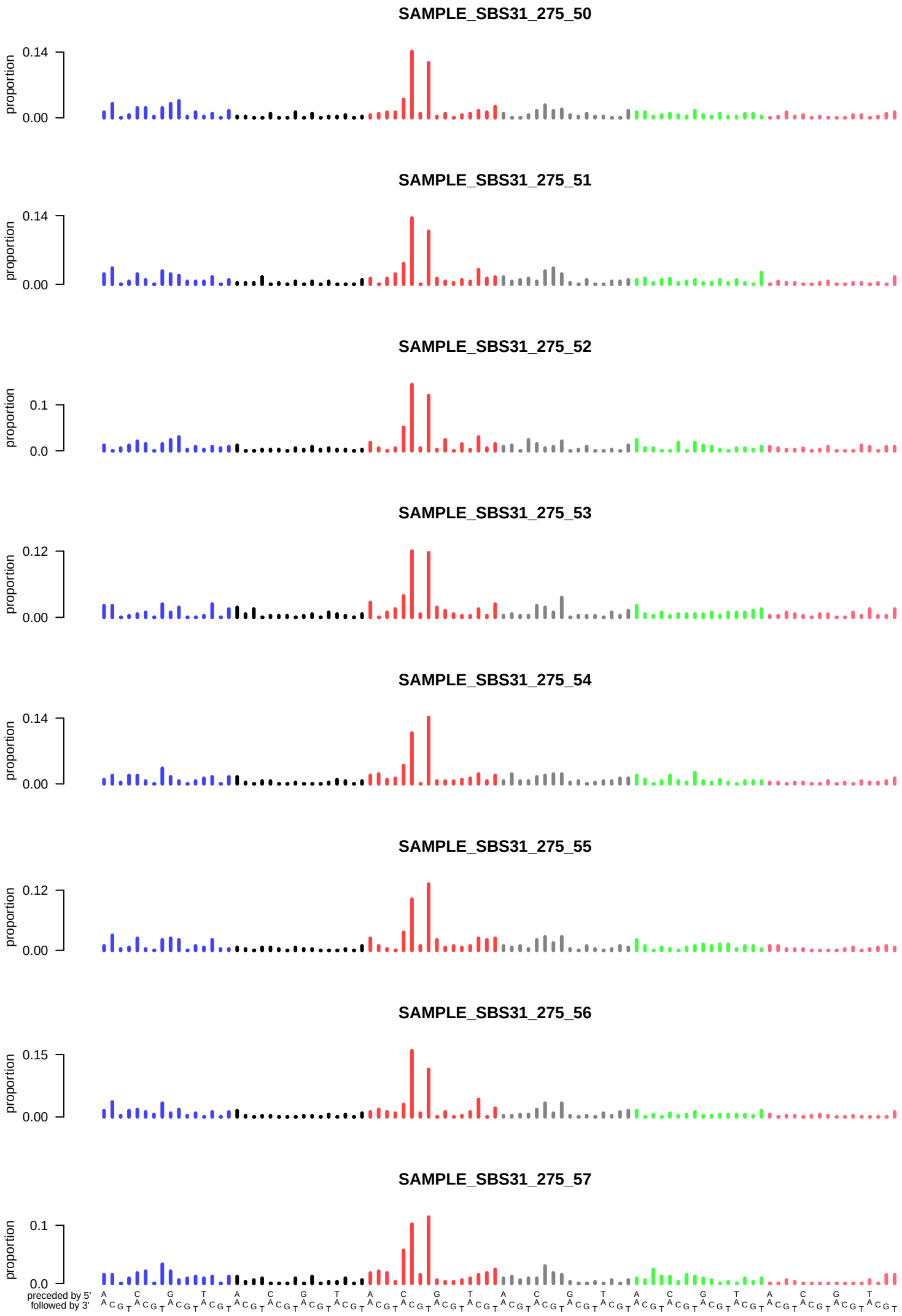
followed by 3'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proportion
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SAMPLE_SBS31_275_56
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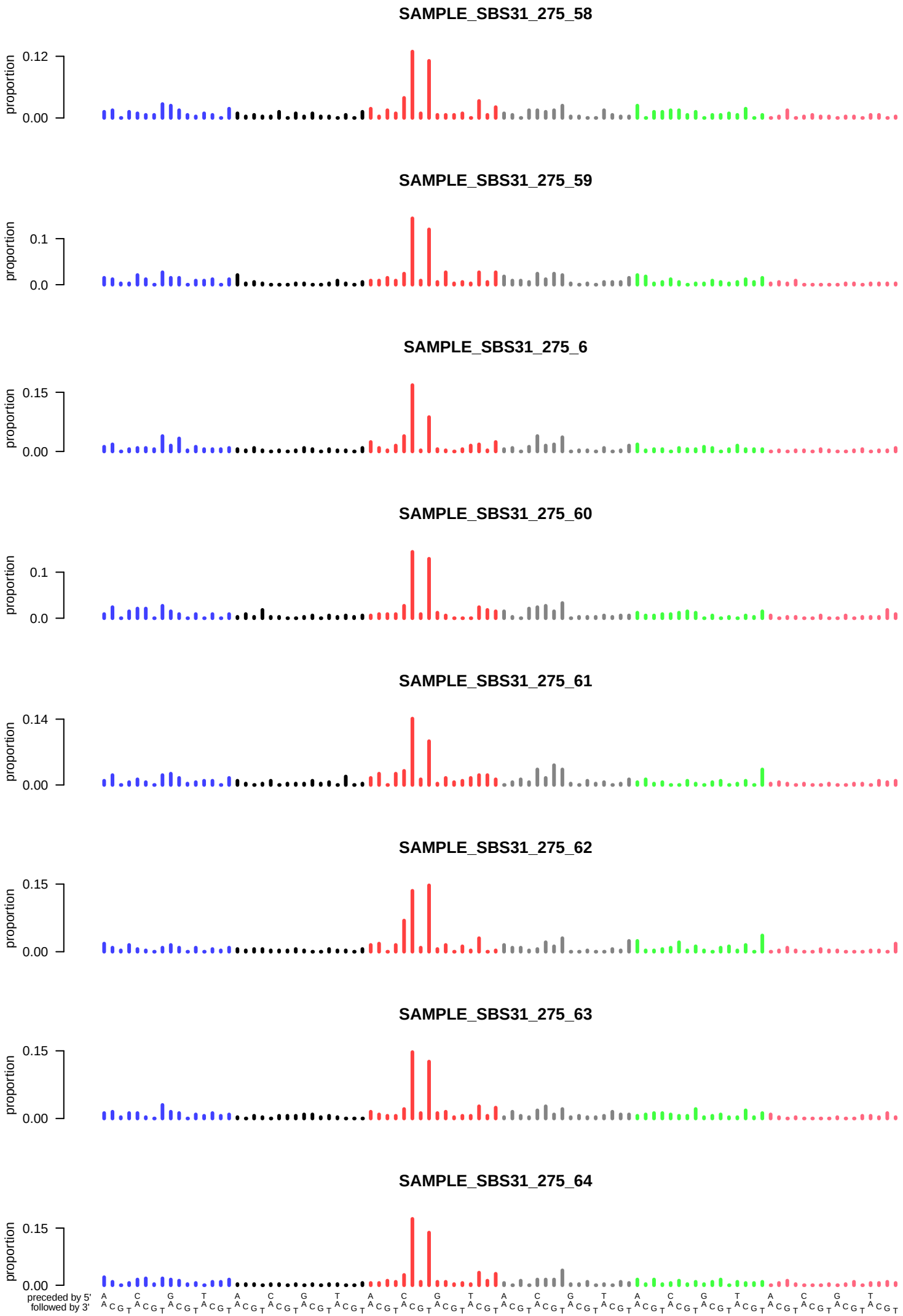
followed by 3'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SAMPLE_SBS31_275_61
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SAMPLE_SBS31_275_62
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SAMPLE_SBS31_275_63
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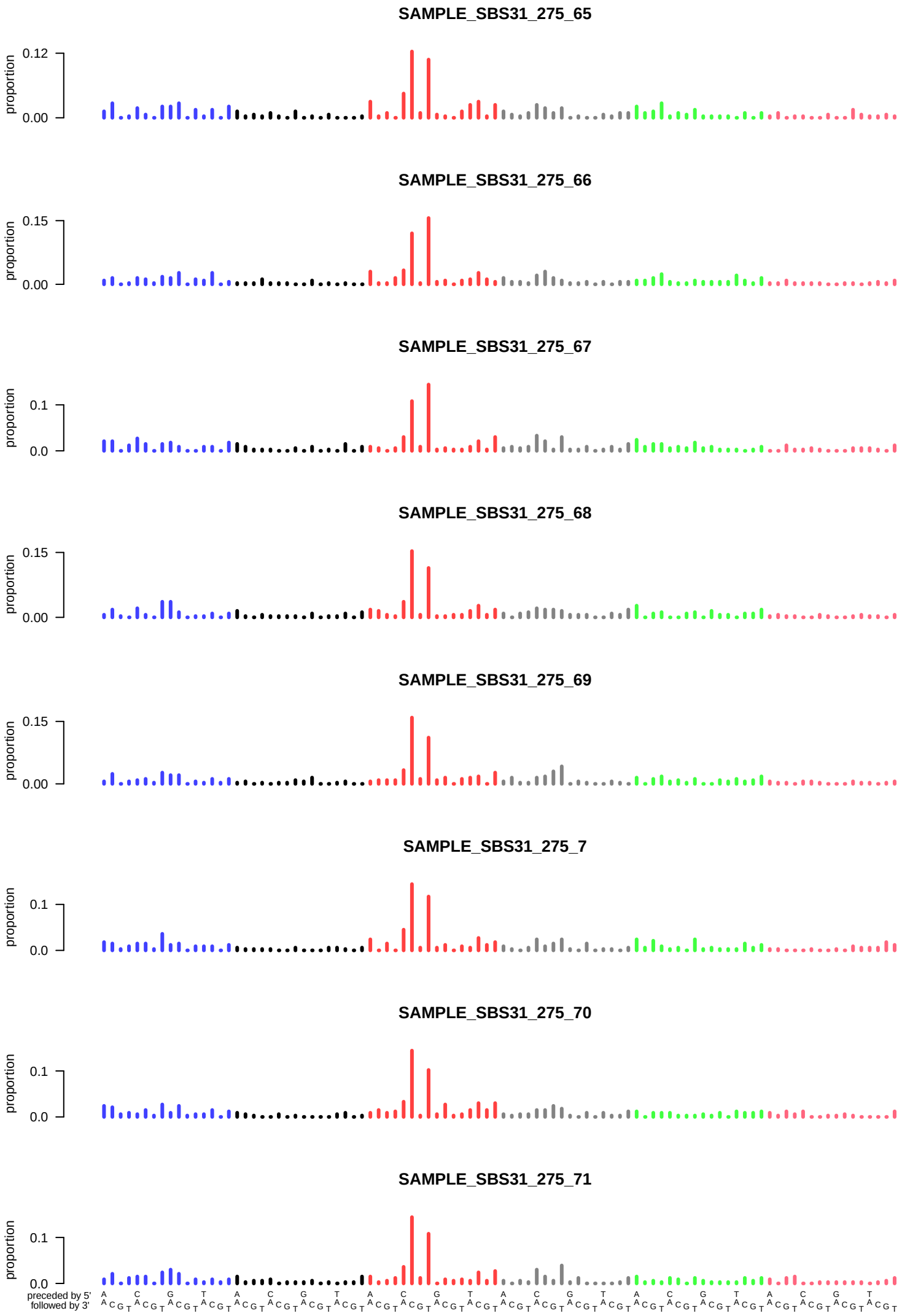
followed by 3'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SAMPLE_SBS31_275_70
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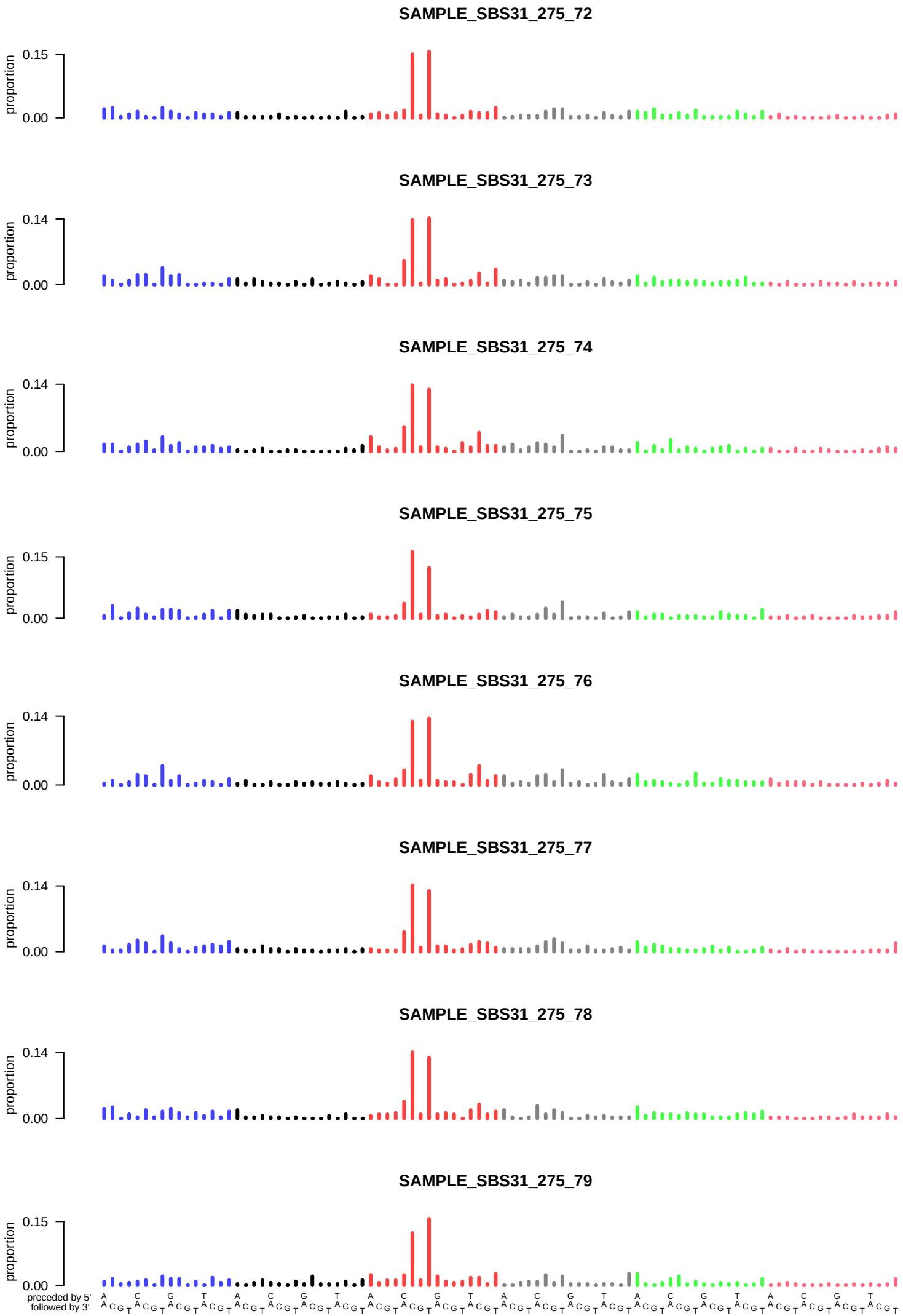
followed by 3'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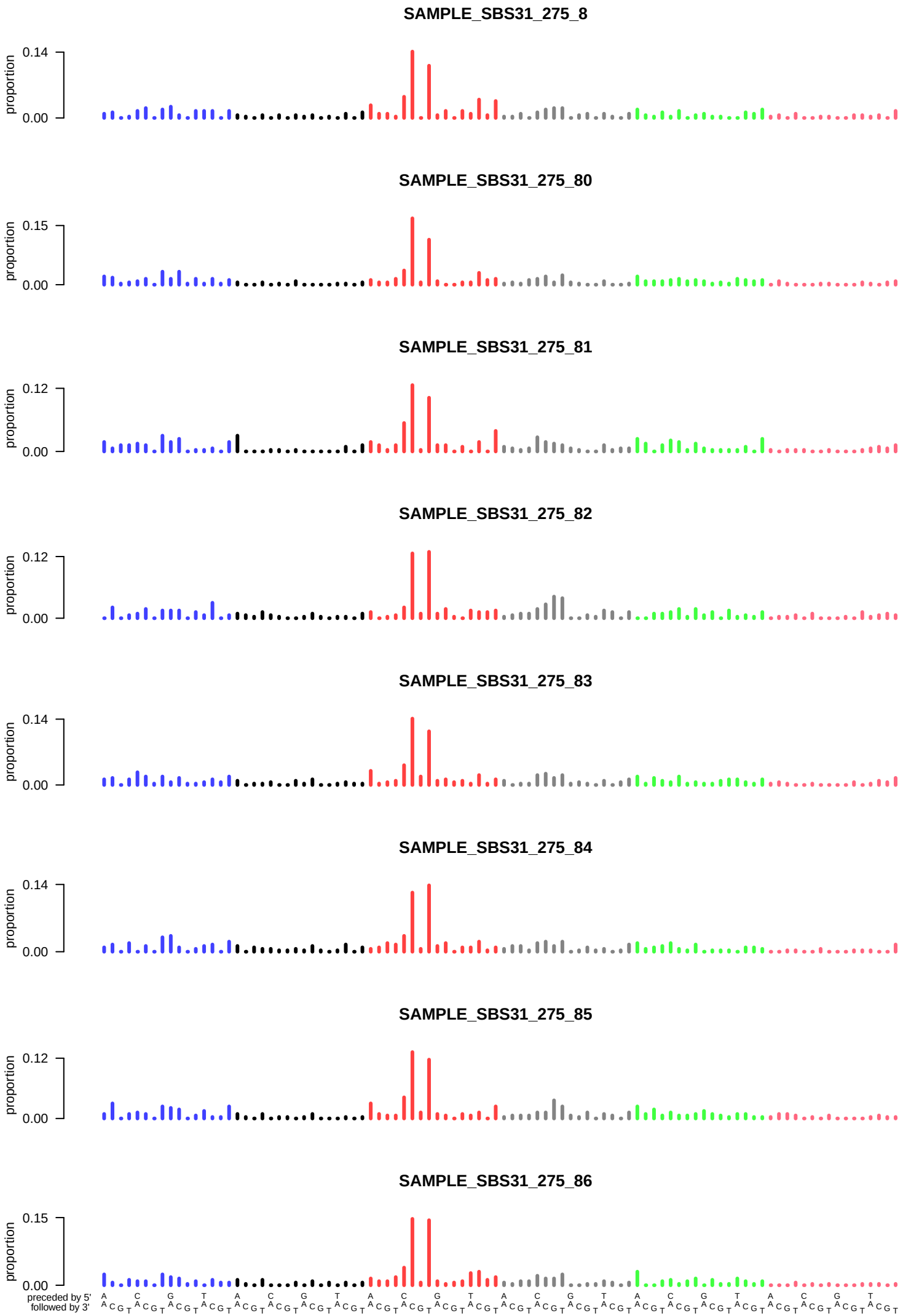
followed by 3'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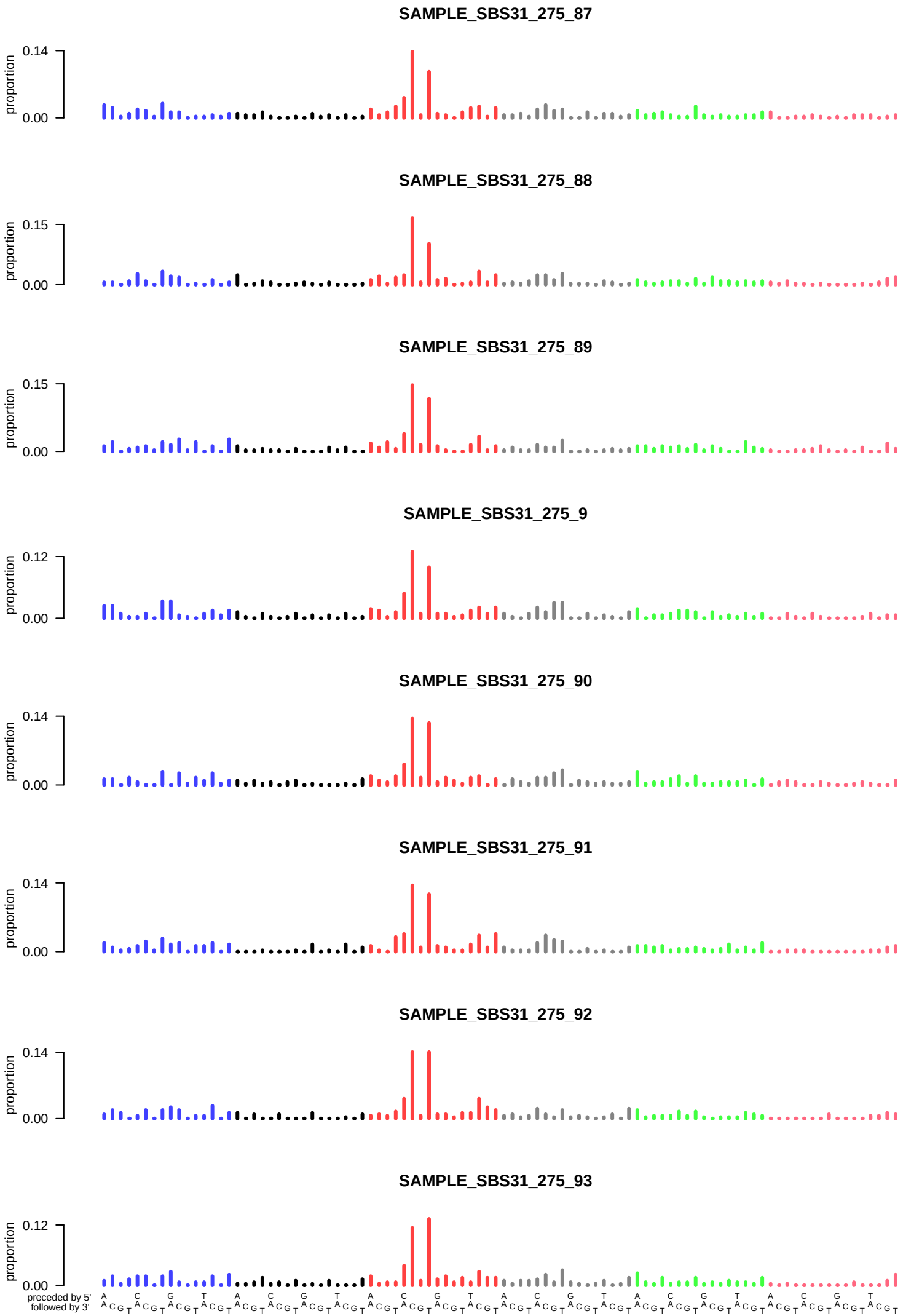
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SAMPLE_SBS31_275_92
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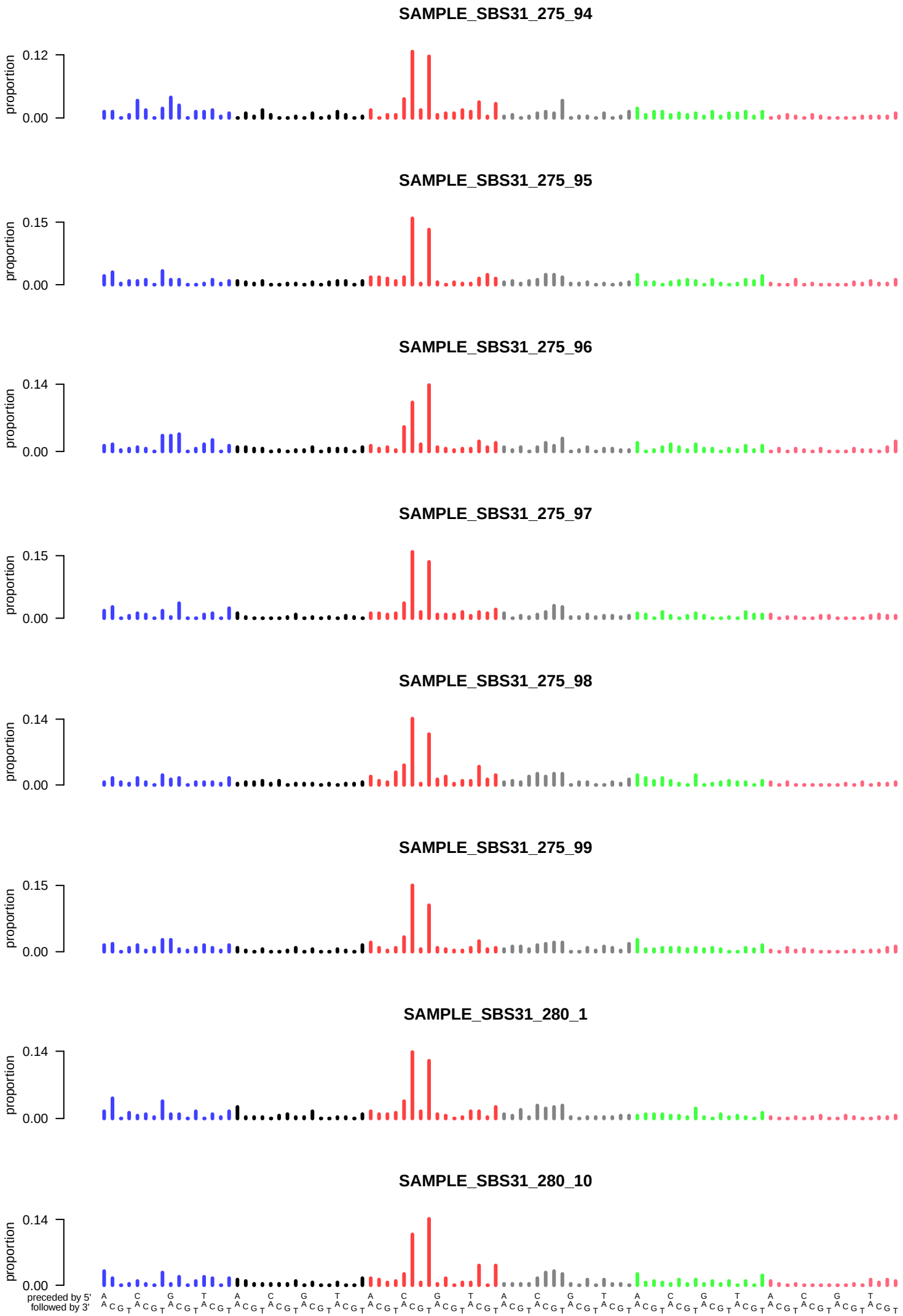
followed by 3'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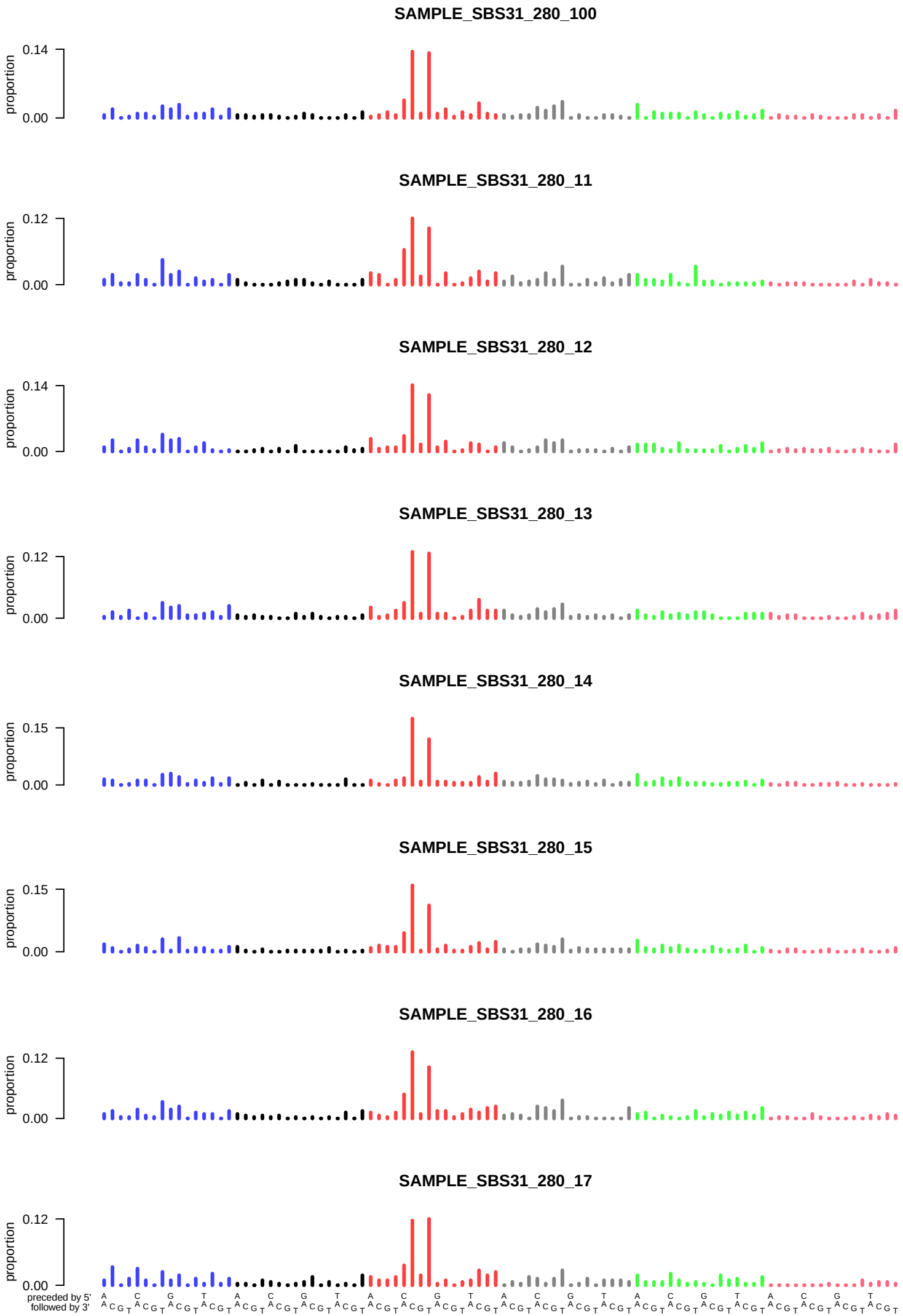
followed by 3'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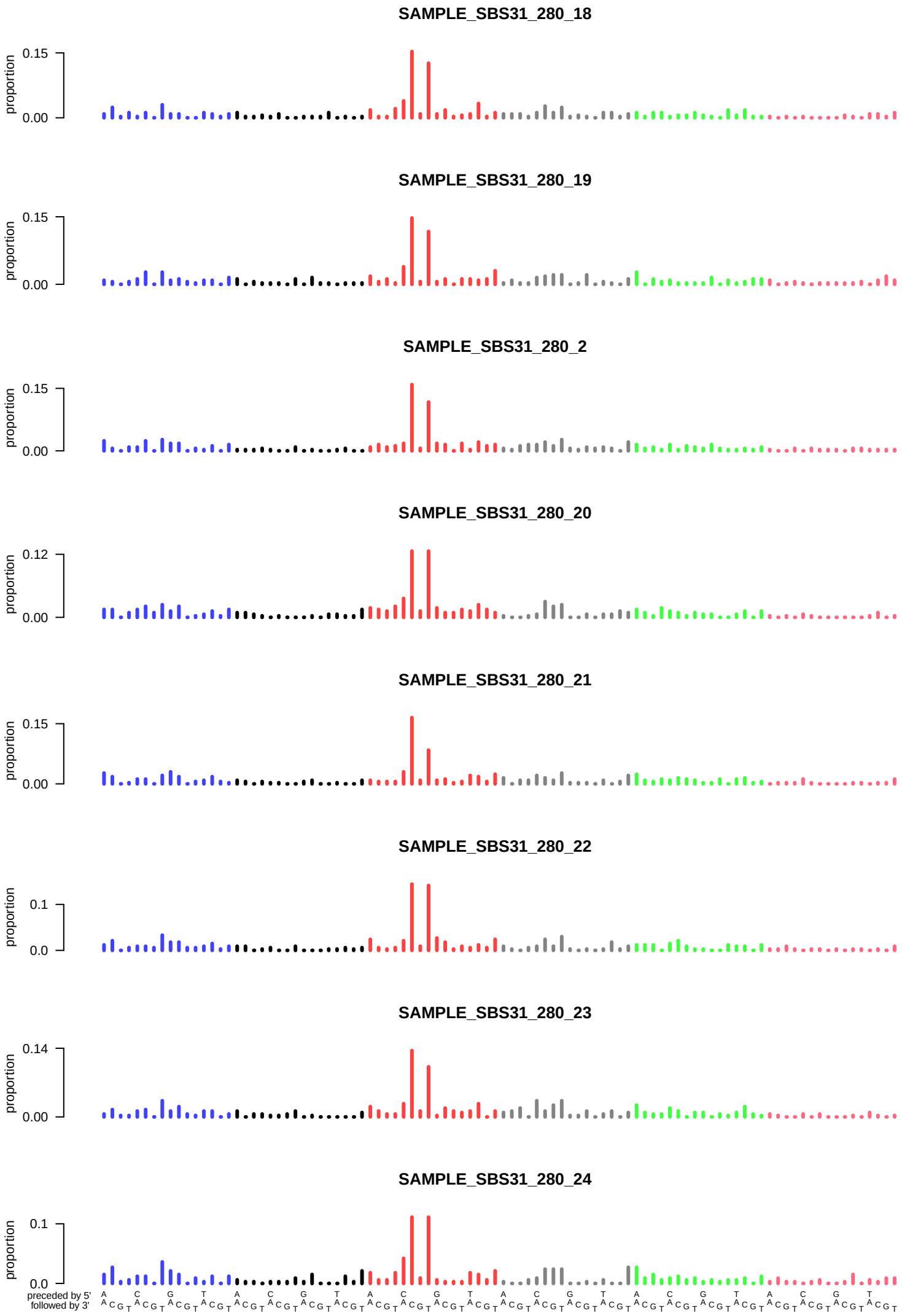
followed by 3'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SAMPLE_SBS31_280_21
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SAMPLE_SBS31_280_22
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SAMPLE_SBS31_280_23
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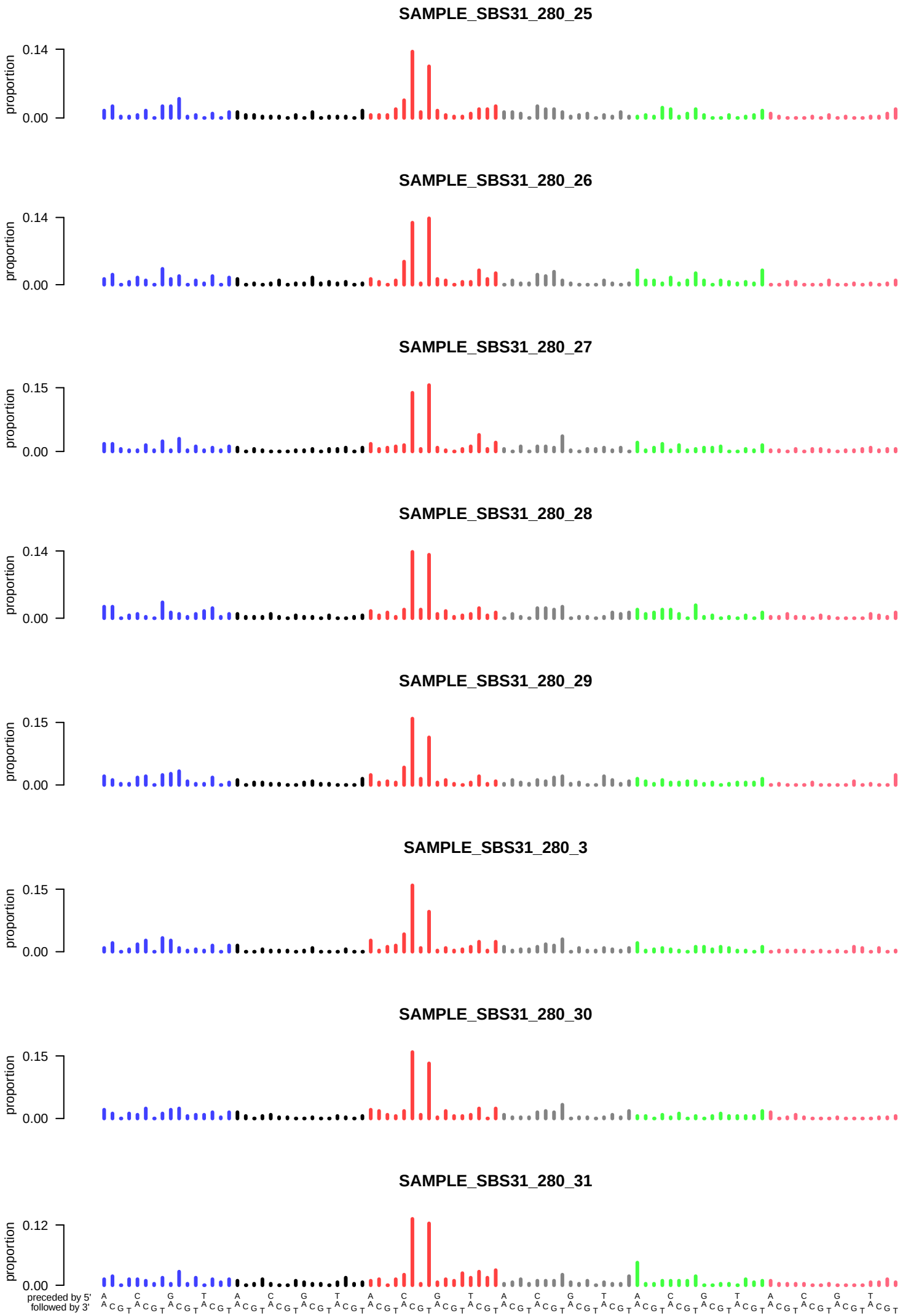
followed by 3'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SAMPLE_SBS31_280_30
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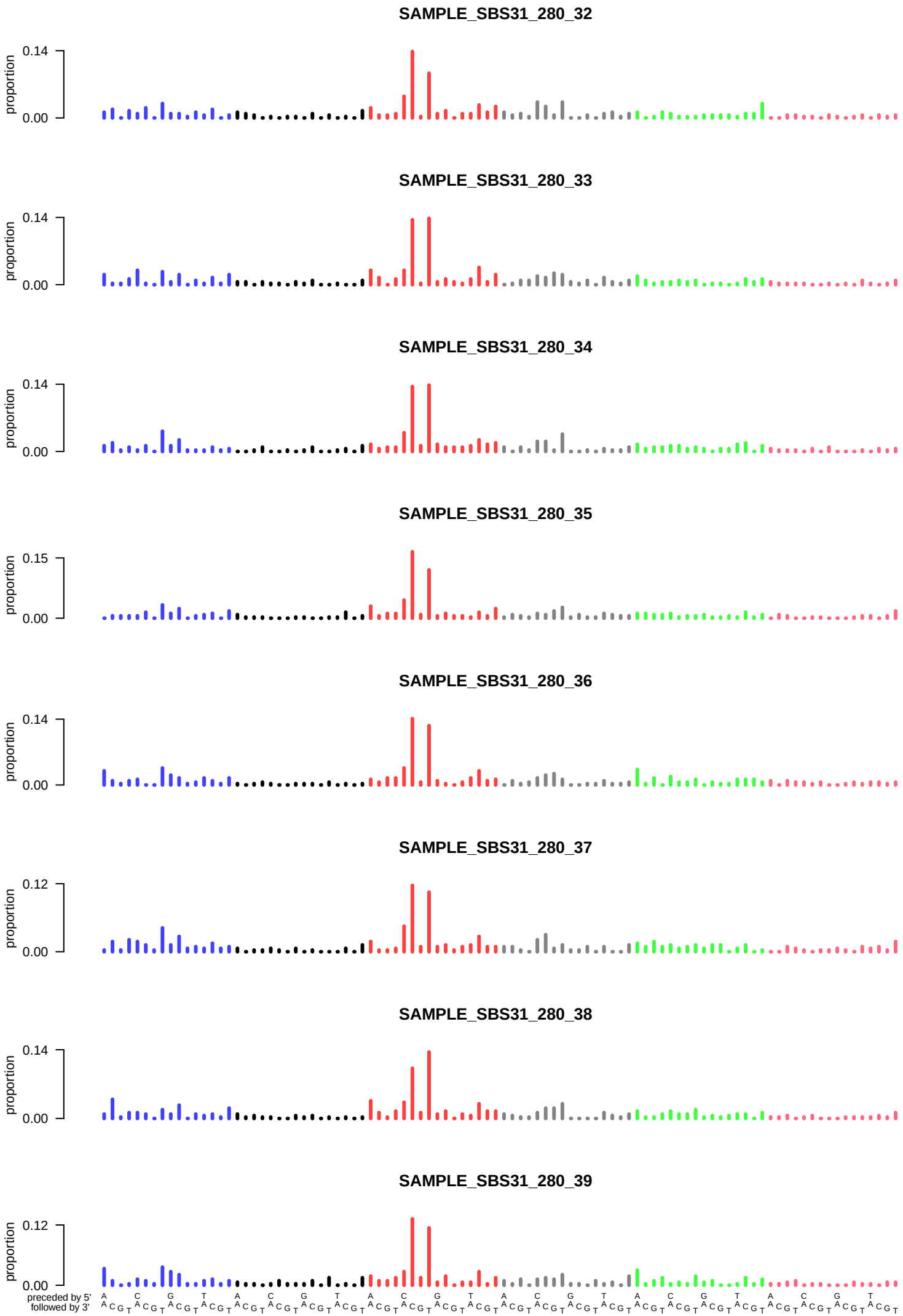
followed by 3'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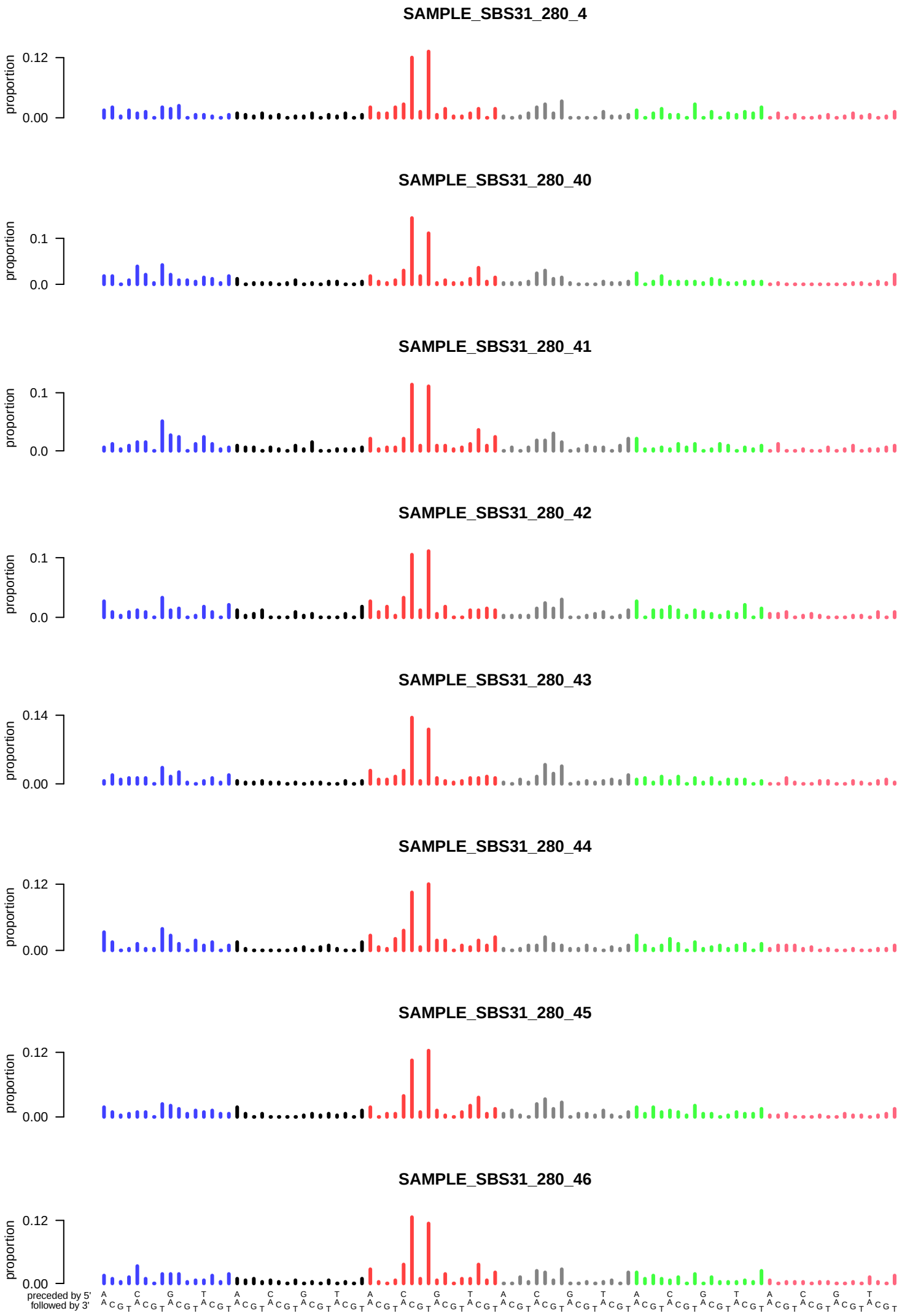
followed by 3'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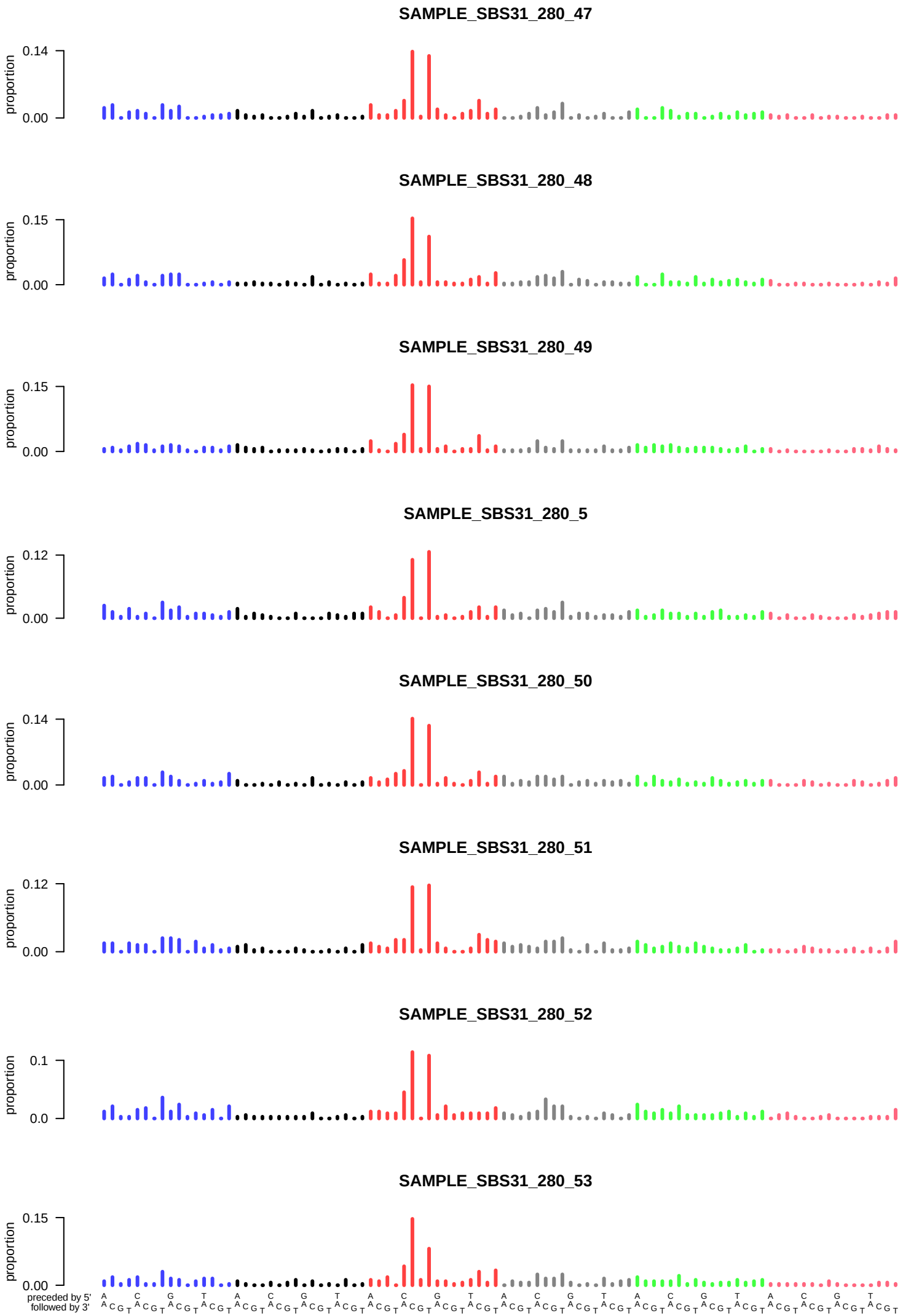
followed by 3'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SAMPLE_SBS31_280_5
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SAMPLE_SBS31_280_50
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SAMPLE_SBS31_280_51
proportion
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SAMPLE_SBS31_280_52
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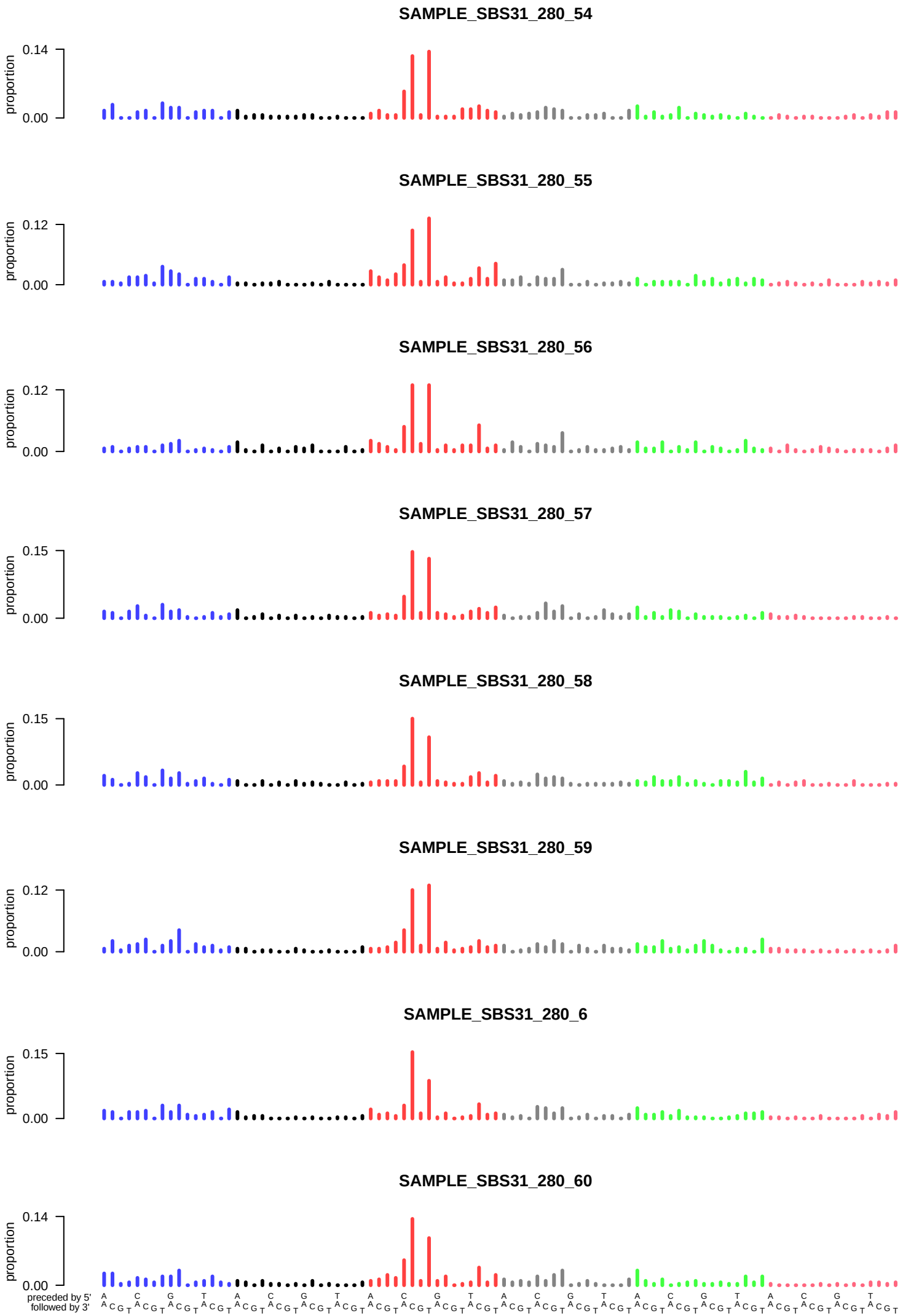
preceded by 5'
followed by 3'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SAMPLE_SBS31_280_57
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SAMPLE_SBS31_280_58
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SAMPLE_SBS31_280_59
proportion
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SAMPLE_SBS31_280_6
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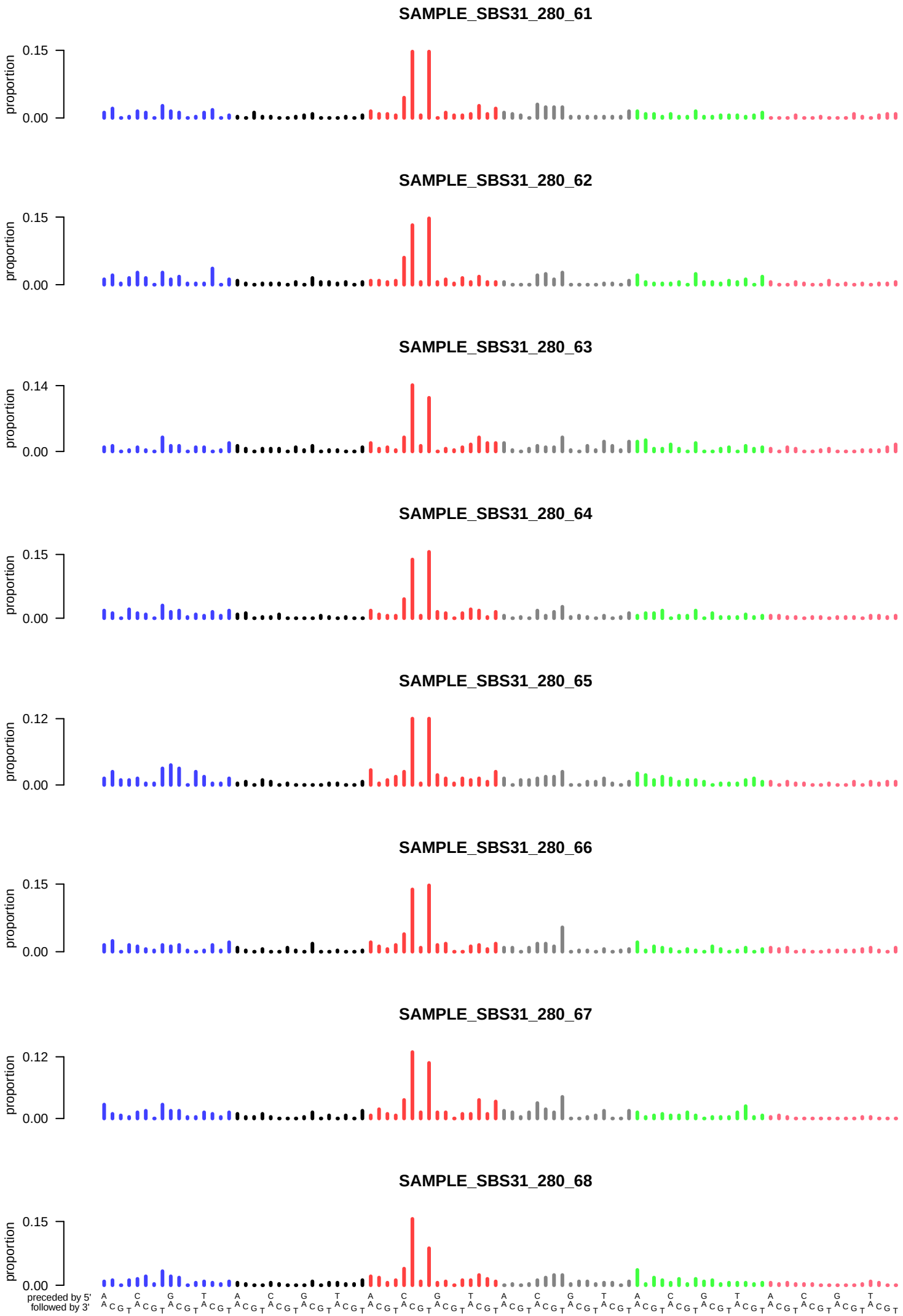
preceded by 5'
followed by 3'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SAMPLE_SBS31_280_64
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SAMPLE_SBS31_280_67
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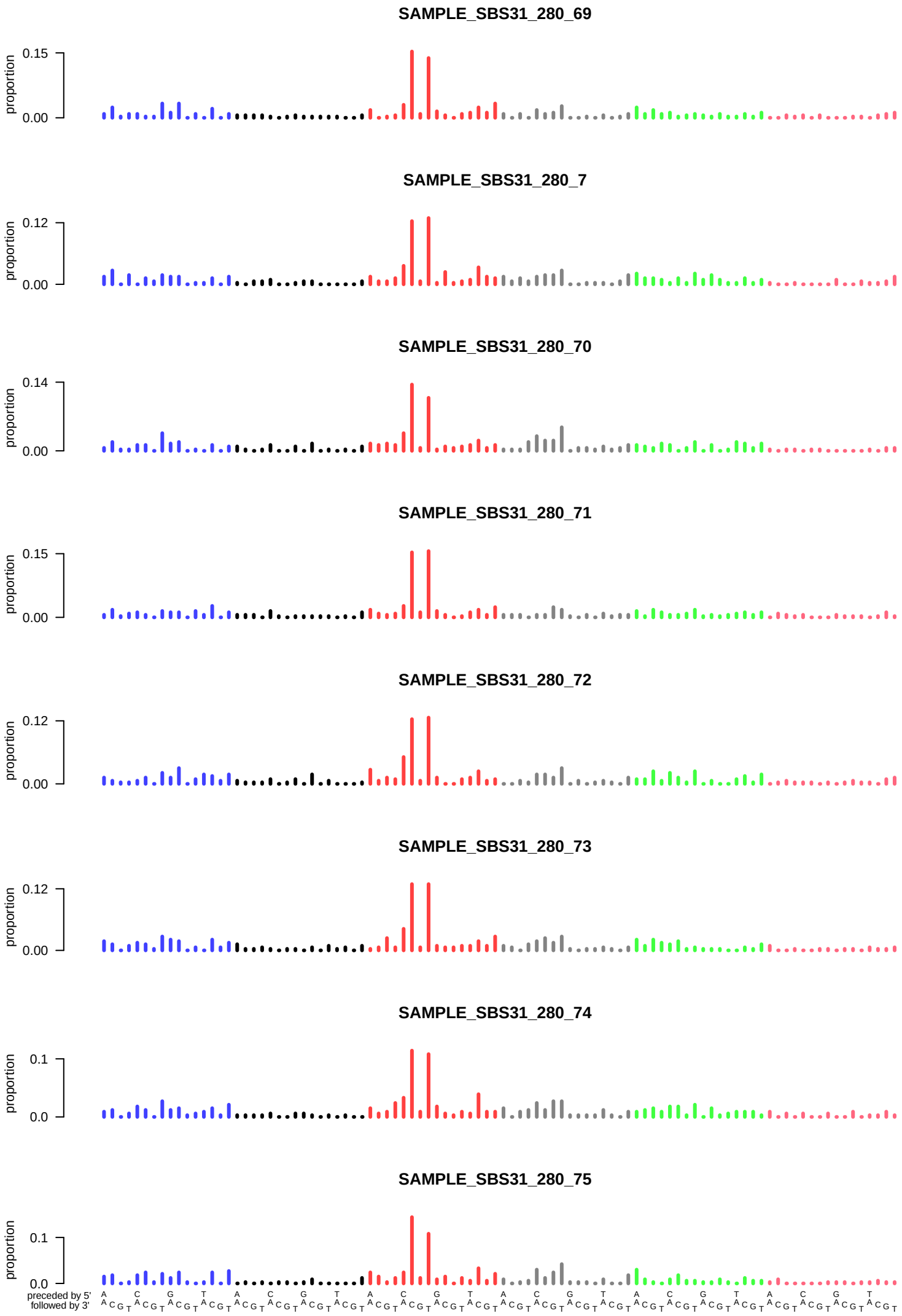
preceded by 5'
followed by 3'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SAMPLE_SBS31_280_72
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SAMPLE_SBS31_280_73
proportion
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SAMPLE_SBS31_280_74
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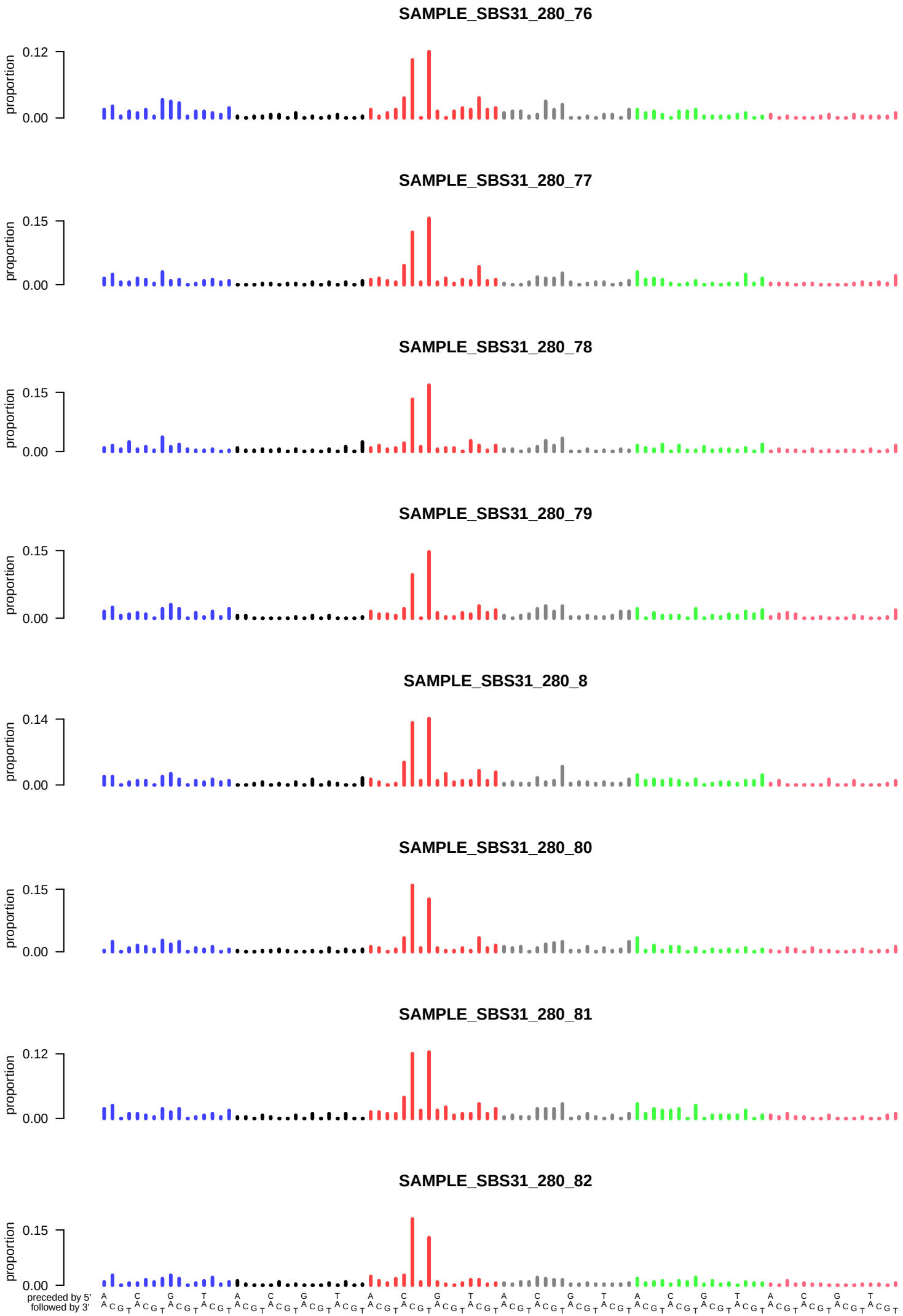
preceded by 5'
followed by 3'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SAMPLE_SBS31_280_79
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proportion
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SAMPLE_SBS31_280_80
proportion
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SAMPLE_SBS31_280_81
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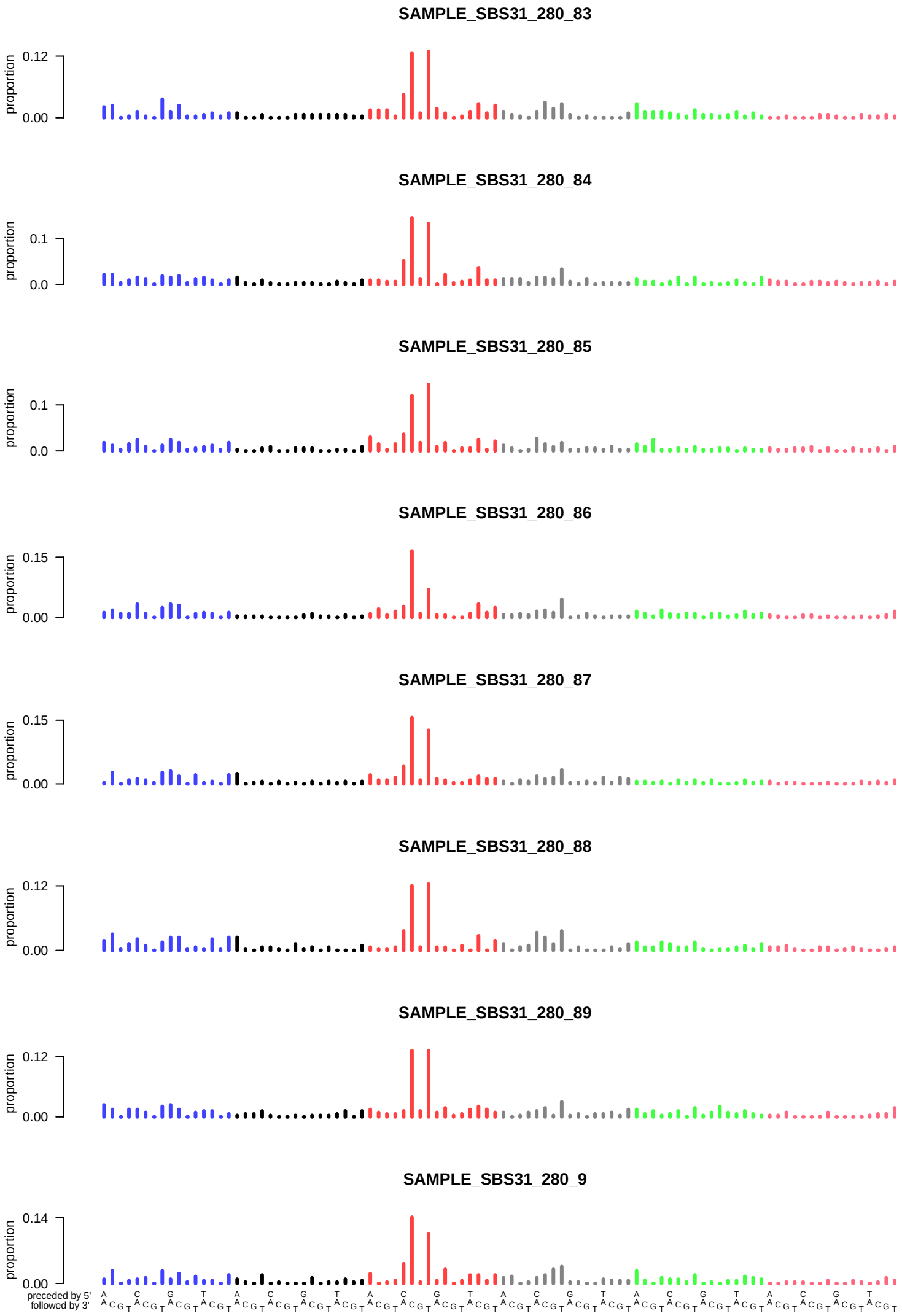
preceded by 5'
followed by 3'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SAMPLE_SBS31_280_86
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SAMPLE_SBS31_280_87
proportion
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SAMPLE_SBS31_280_88
proportion
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SAMPLE_SBS31_280_89
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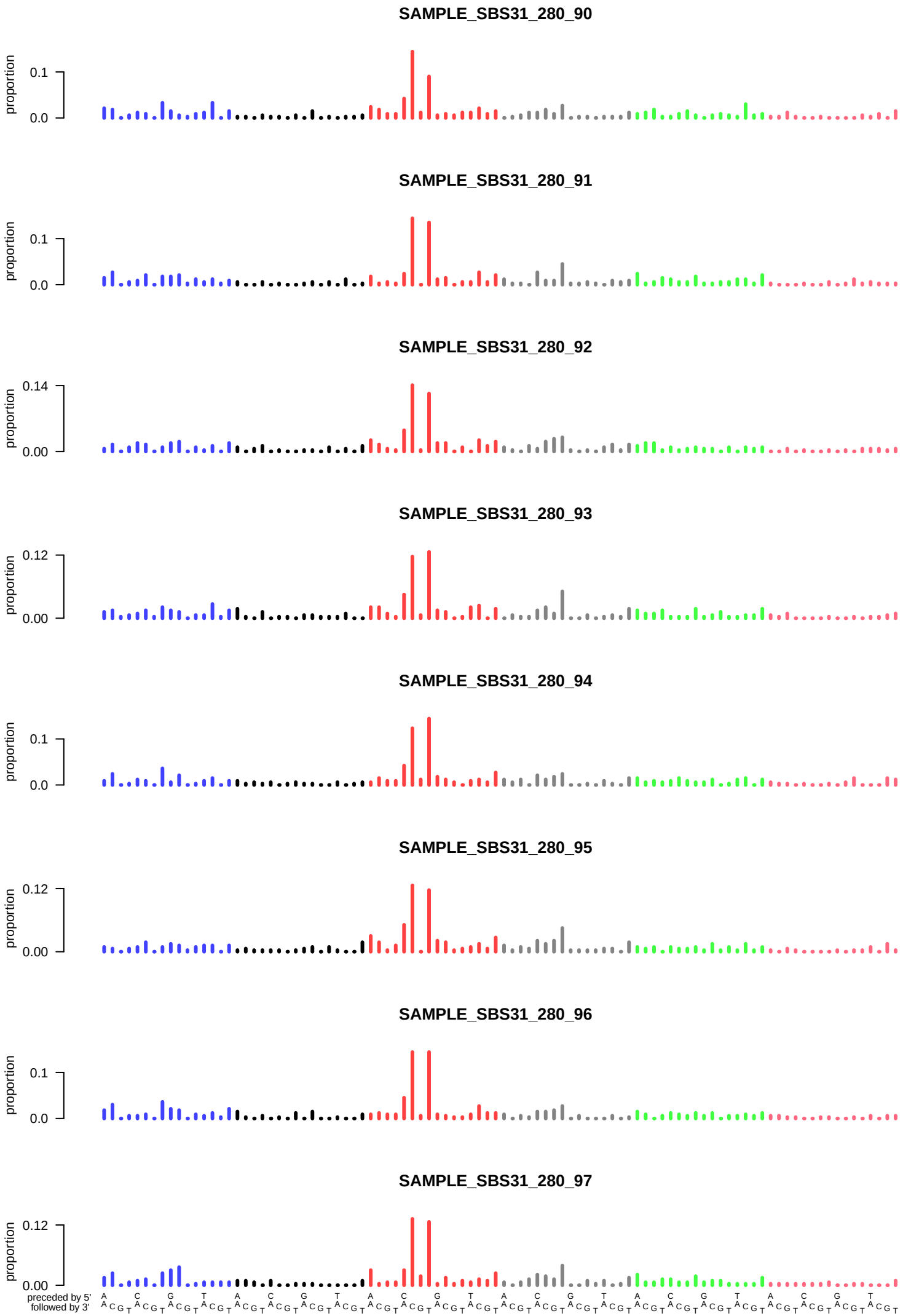
followed by 3'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SAMPLE_SBS31_280_92
proportion
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SAMPLE_SBS31_280_93
proportion
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SAMPLE_SBS31_280_94
proportion
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SAMPLE_SBS31_280_95
proportion
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SAMPLE_SBS31_280_96
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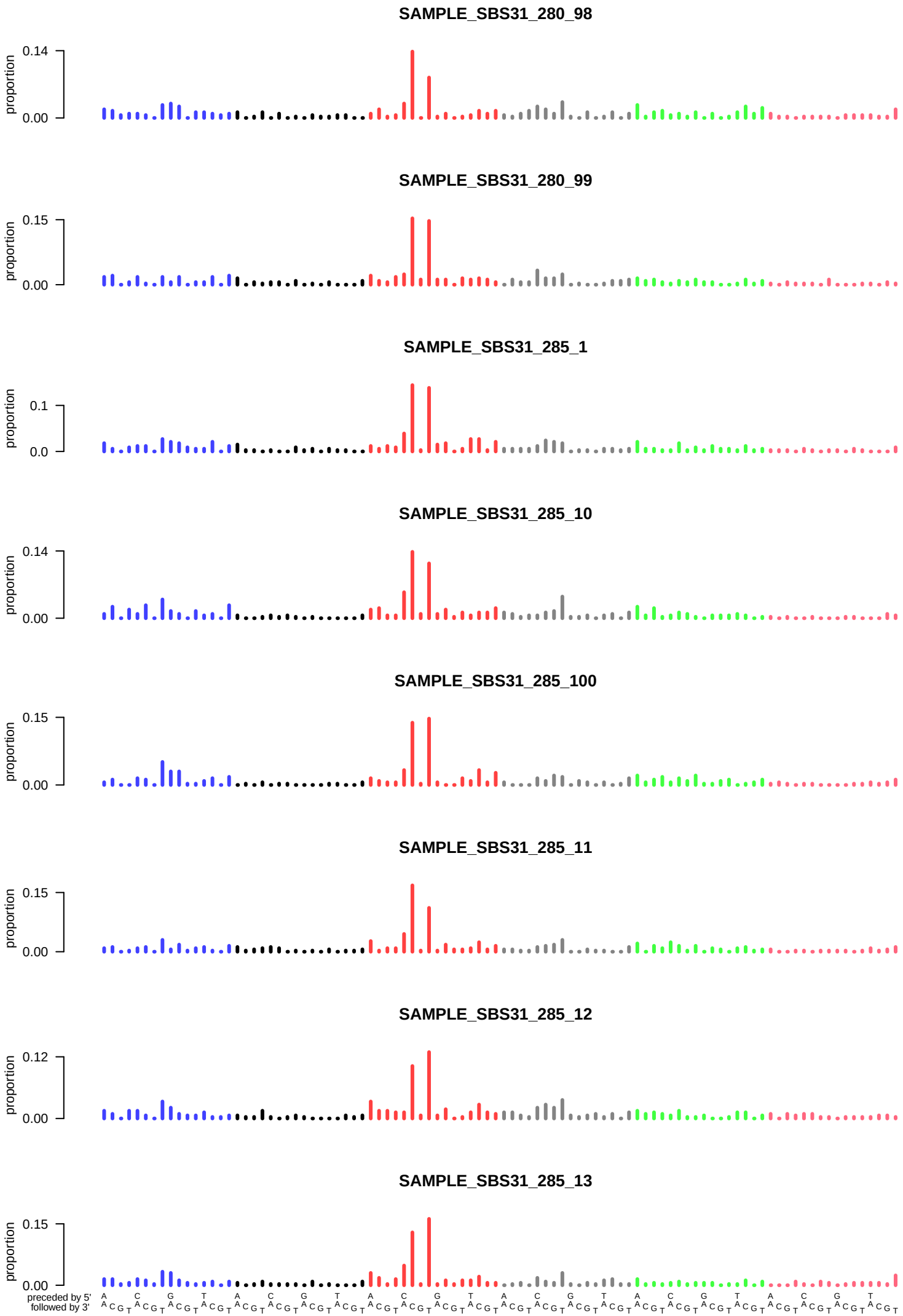
preceded by 5'
followed by 3'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SAMPLE_SBS31_285_10
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SAMPLE_SBS31_285_100
proportion
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SAMPLE_SBS31_285_11
proportion
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SAMPLE_SBS31_285_12
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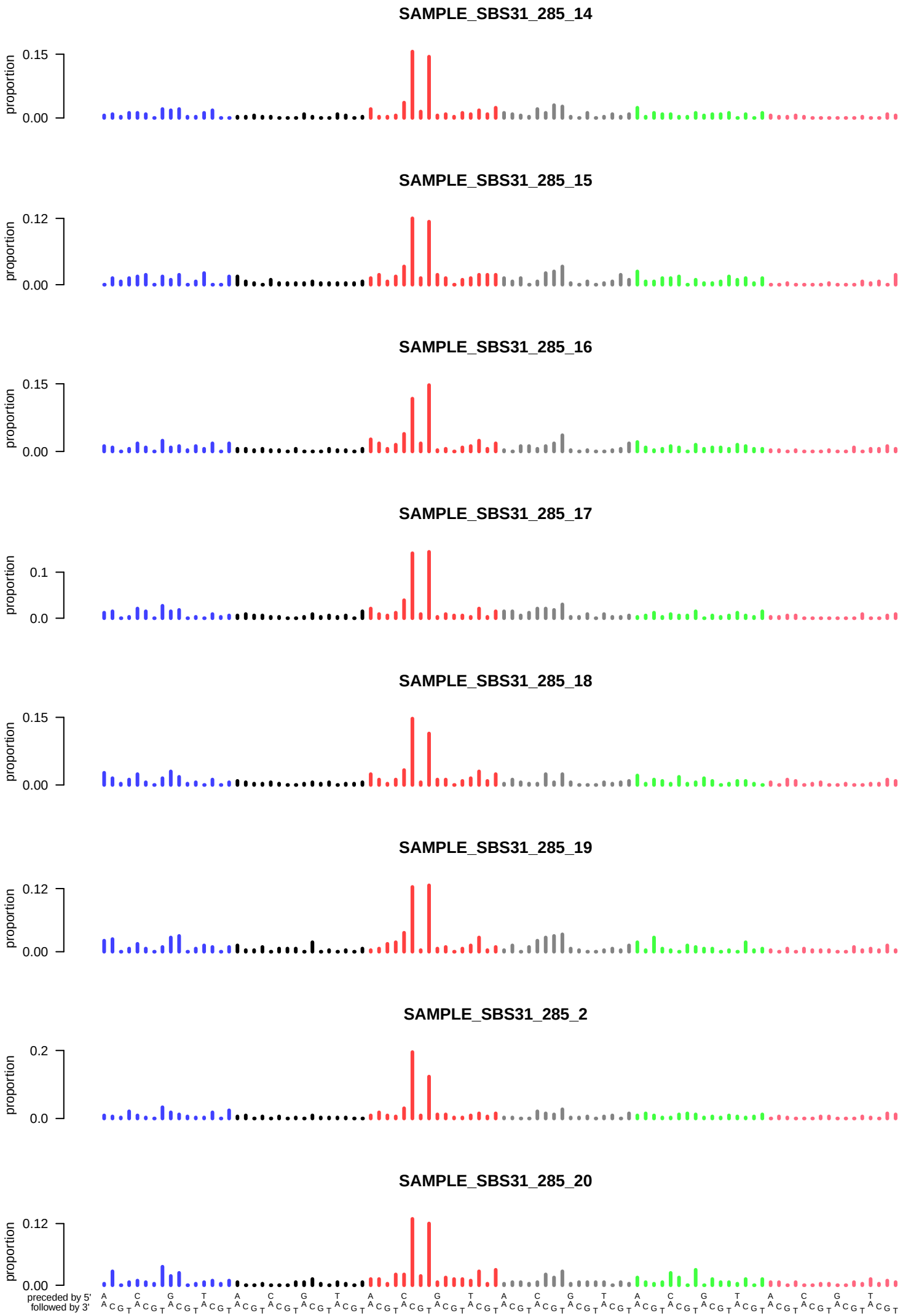
followed by 3'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SAMPLE_SBS31_285_18
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SAMPLE_SBS31_285_19
proportion
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SAMPLE_SBS31_285_2
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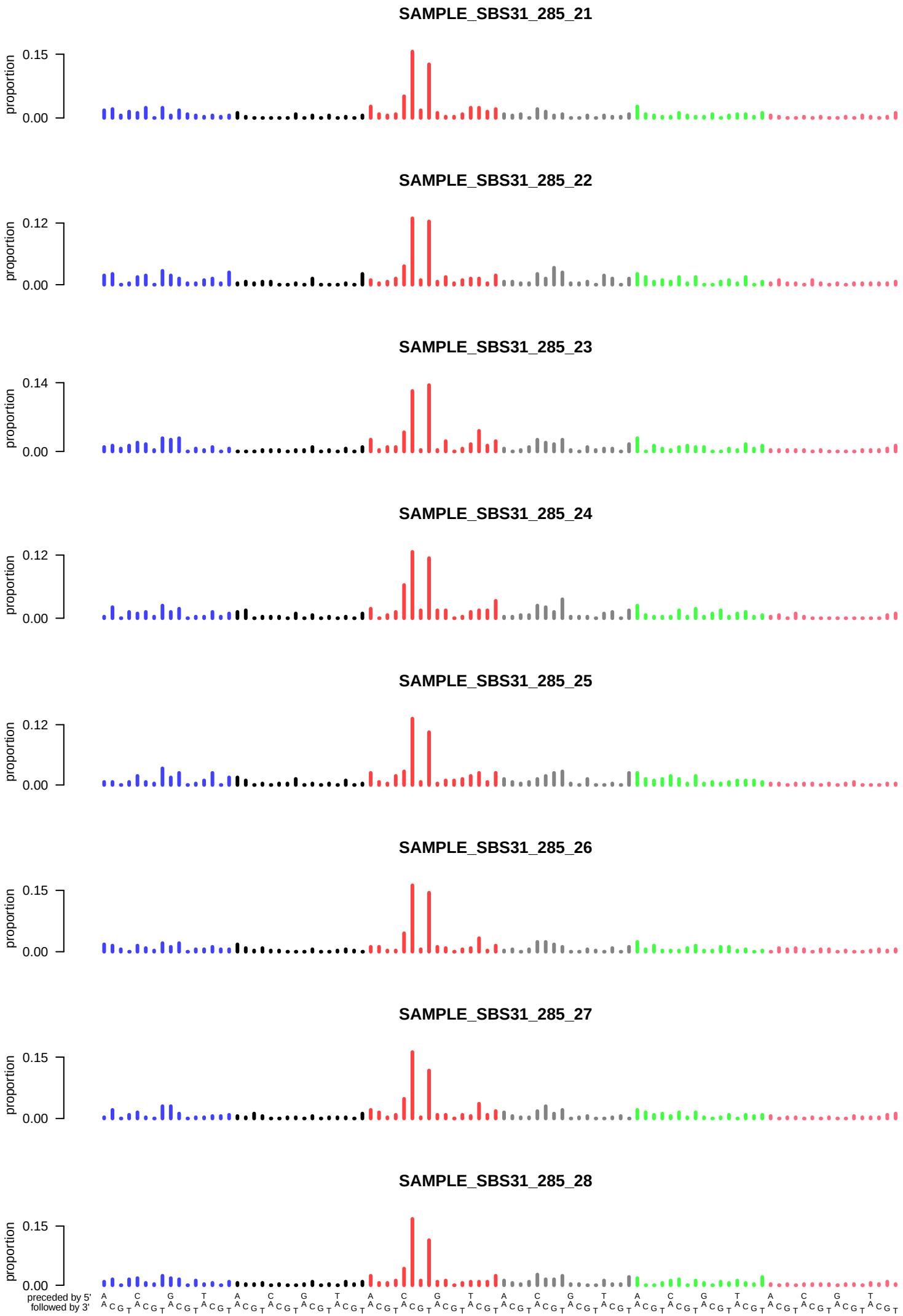
preceded by 5'
followed by 3'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SAMPLE_SBS31_285_26
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SAMPLE_SBS31_285_27
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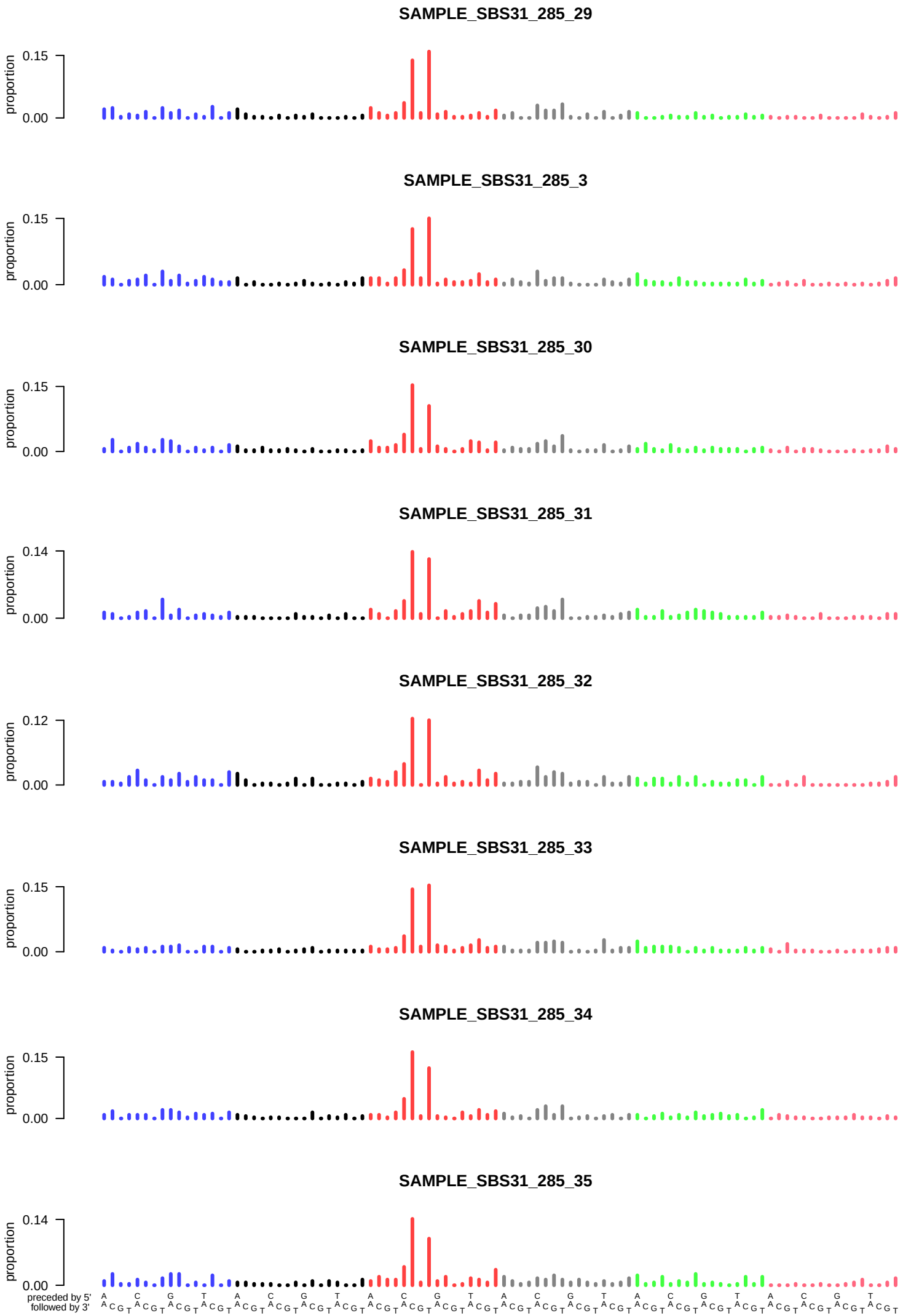
followed by 3'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SAMPLE_SBS31_285_31
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SAMPLE_SBS31_285_32
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SAMPLE_SBS31_285_33
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SAMPLE_SBS31_285_34
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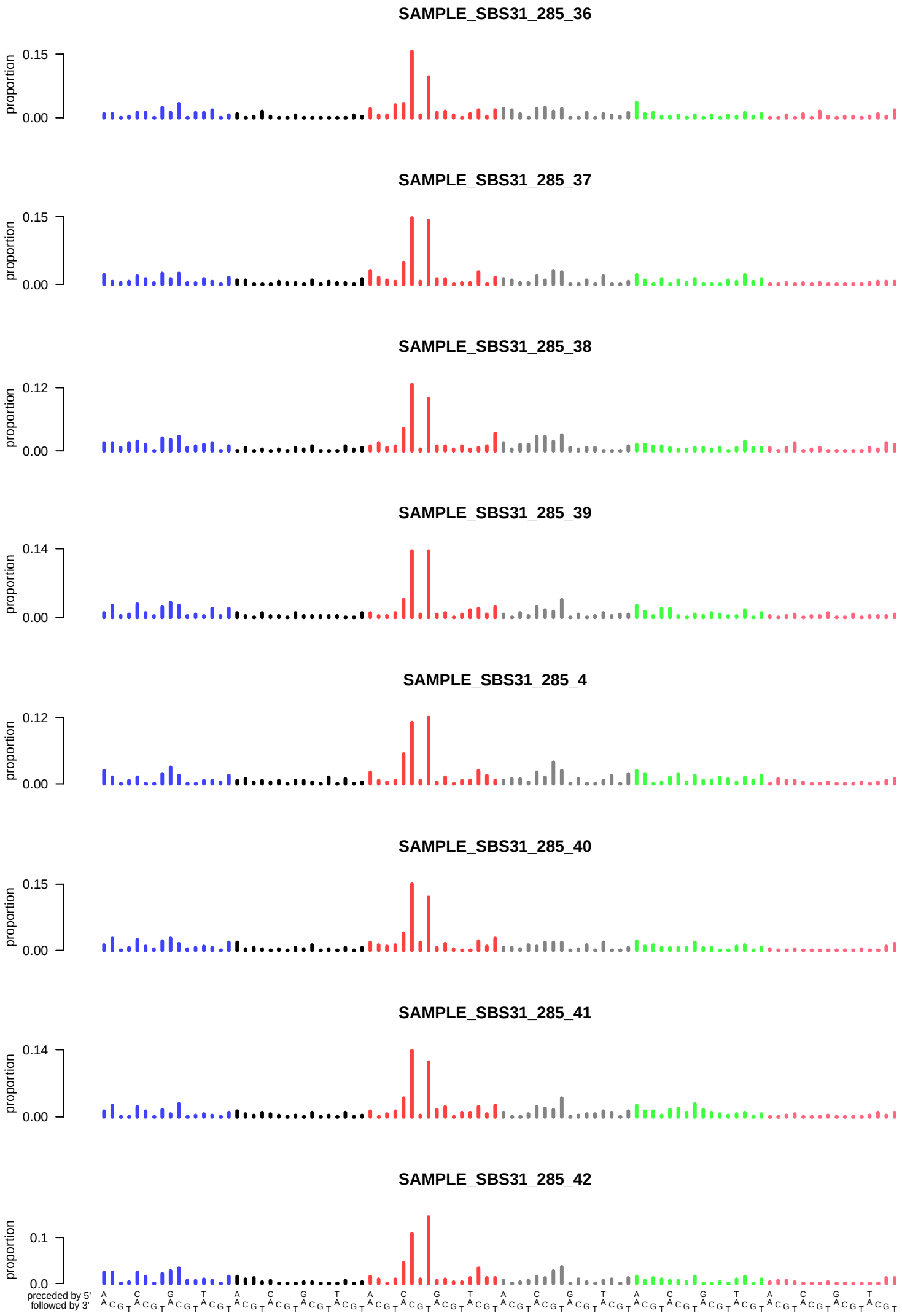
preceded by 5'
followed by 3'
A C G T A C G T A C G T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SAMPLE_SBS31_285_4
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SAMPLE_SBS31_285_40
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SAMPLE_SBS31_285_41
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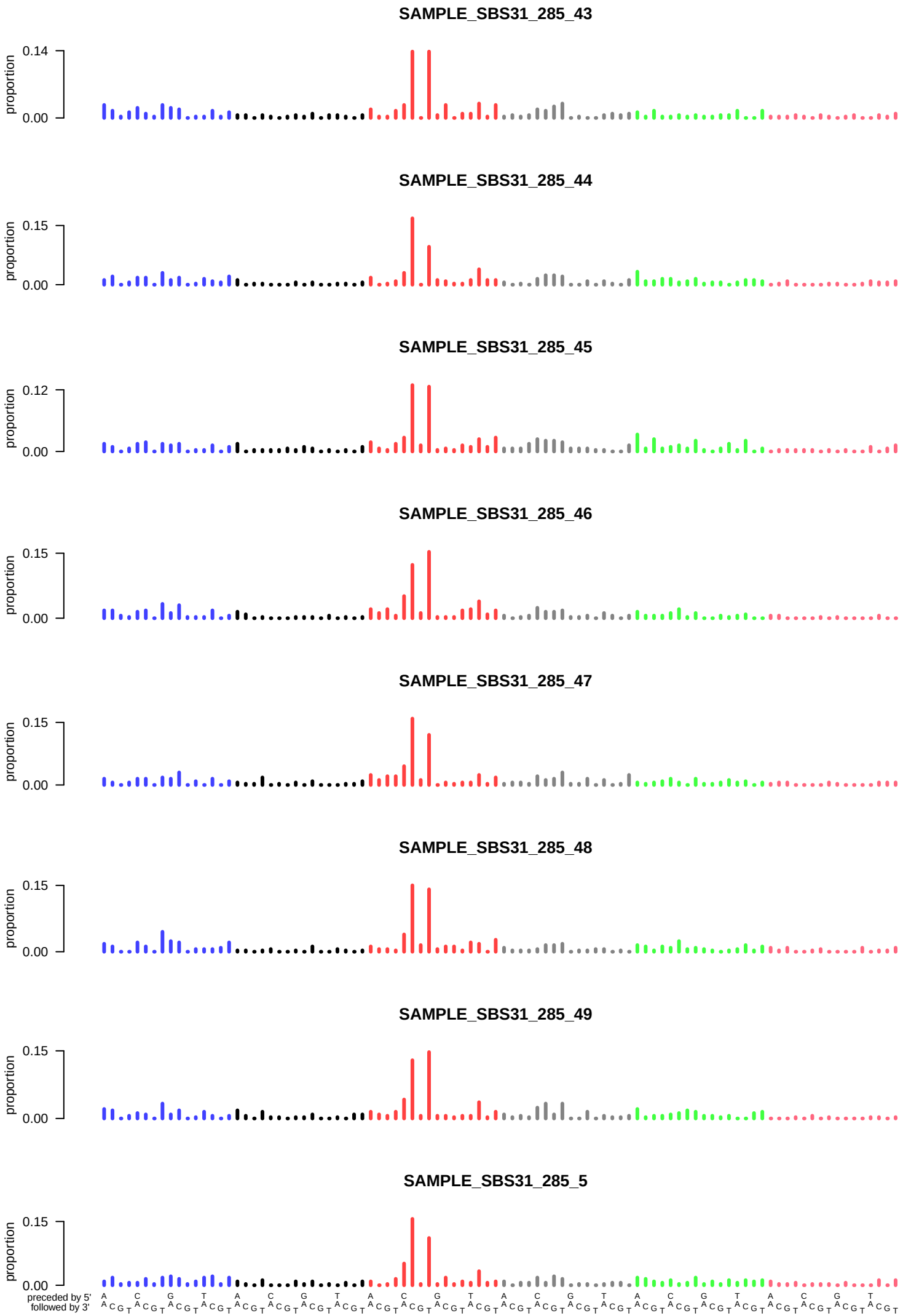
preceded by 5'
followed by 3'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SAMPLE_SBS31_285_46
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SAMPLE_SBS31_285_47
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SAMPLE_SBS31_285_48
proportion
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SAMPLE_SBS31_285_49
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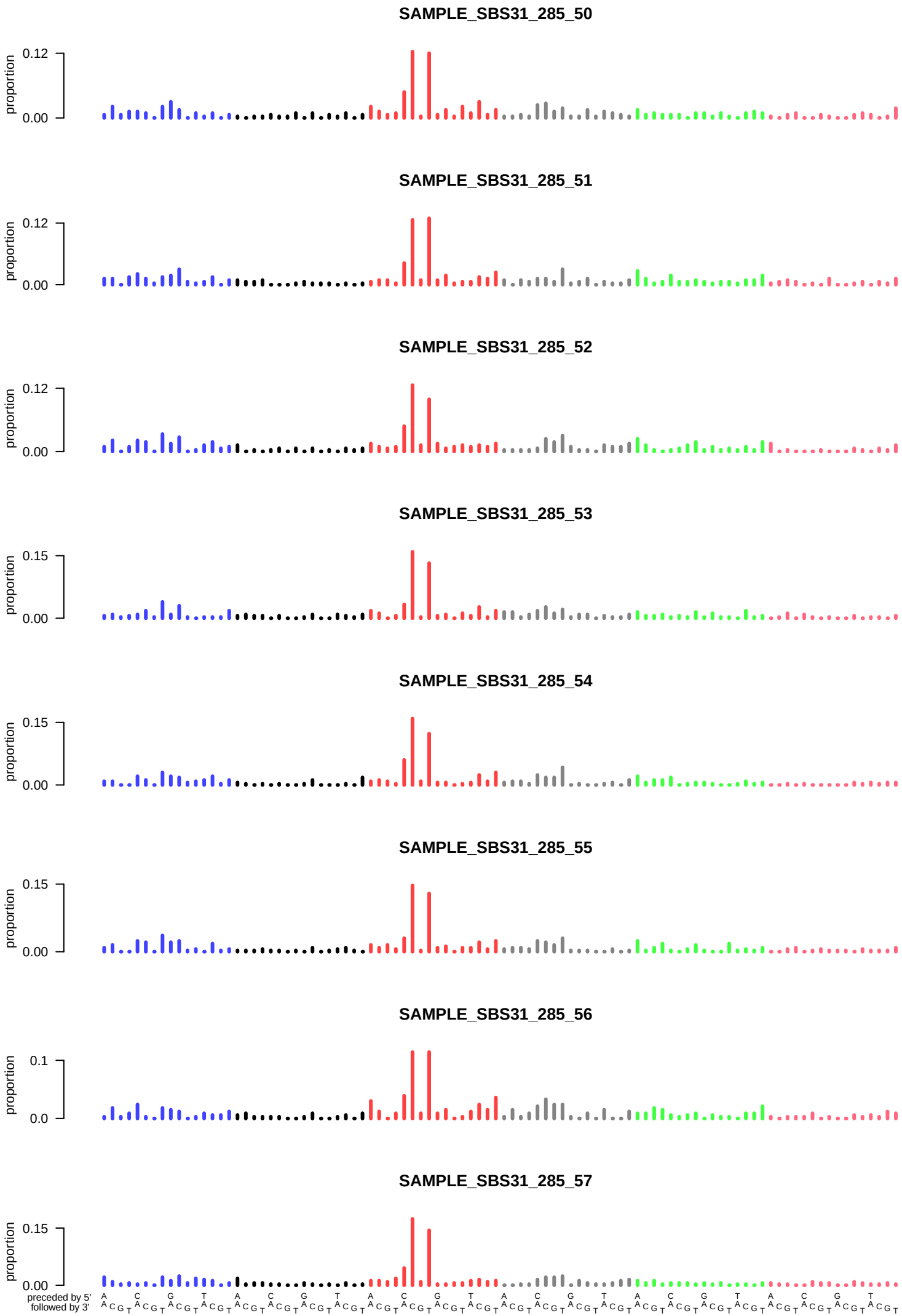
preceded by 5'
followed by 3'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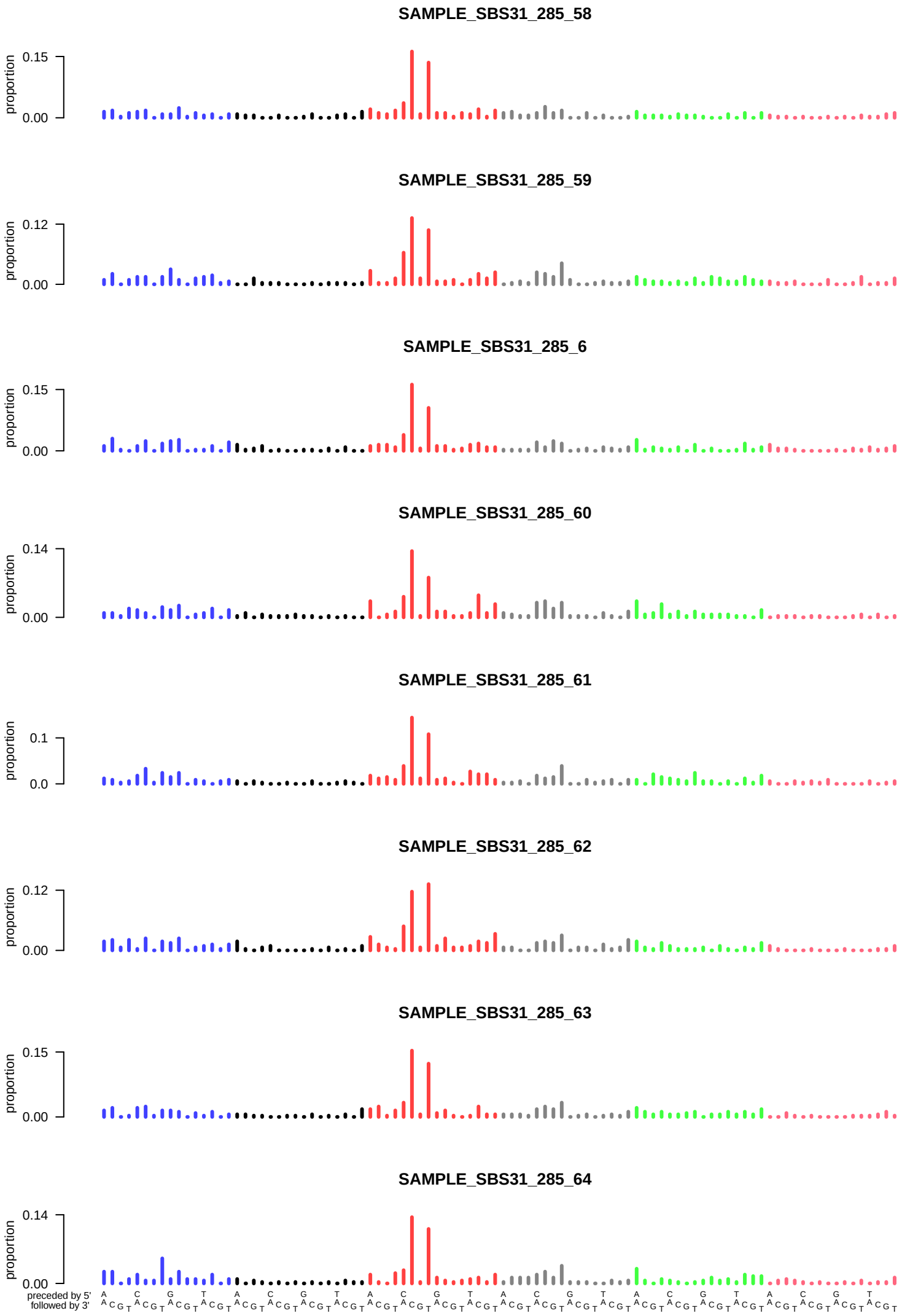
followed by 3'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SAMPLE_SBS31_285_62
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SAMPLE_SBS31_285_63
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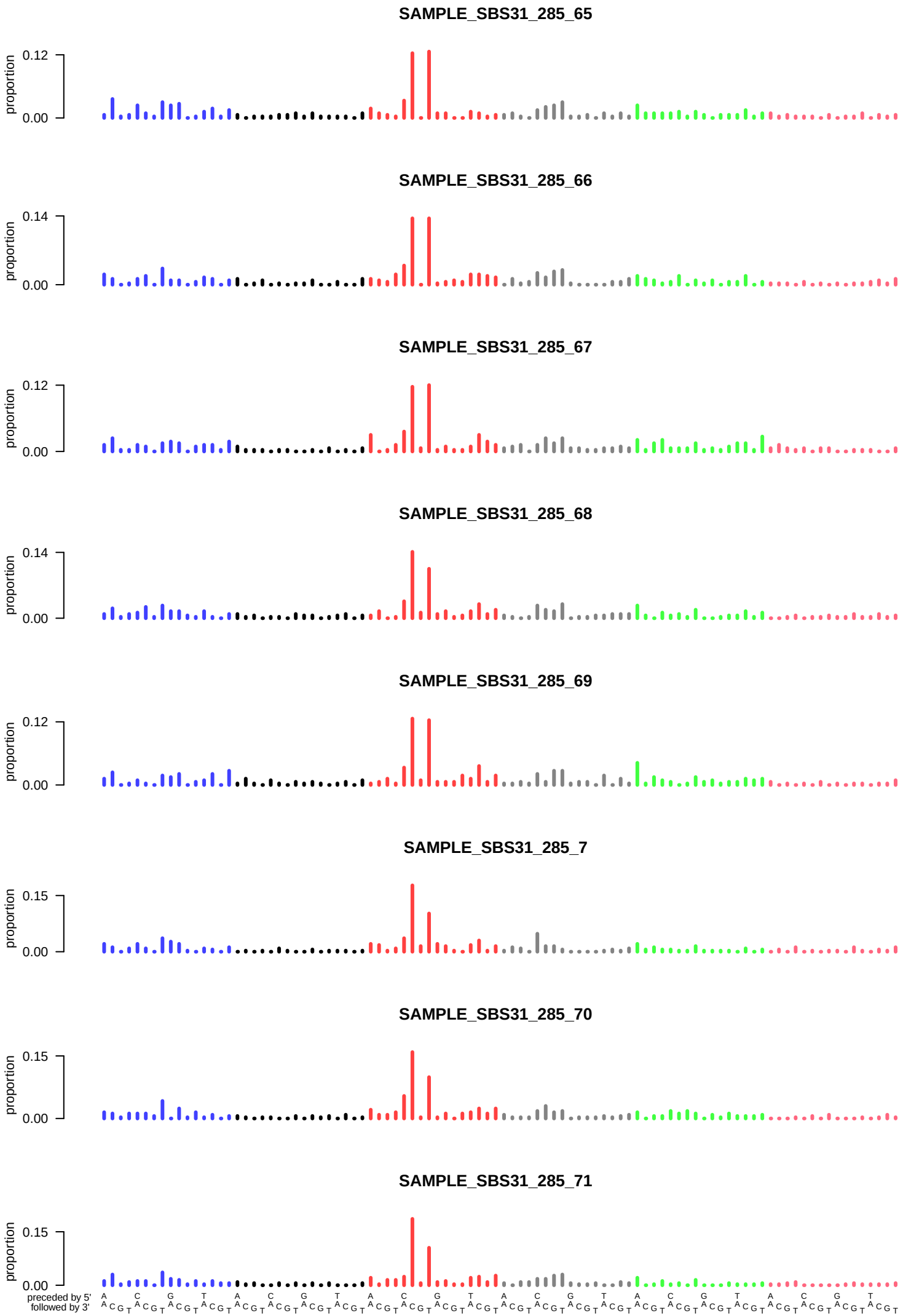
followed by 3'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SAMPLE_SBS31_285_70
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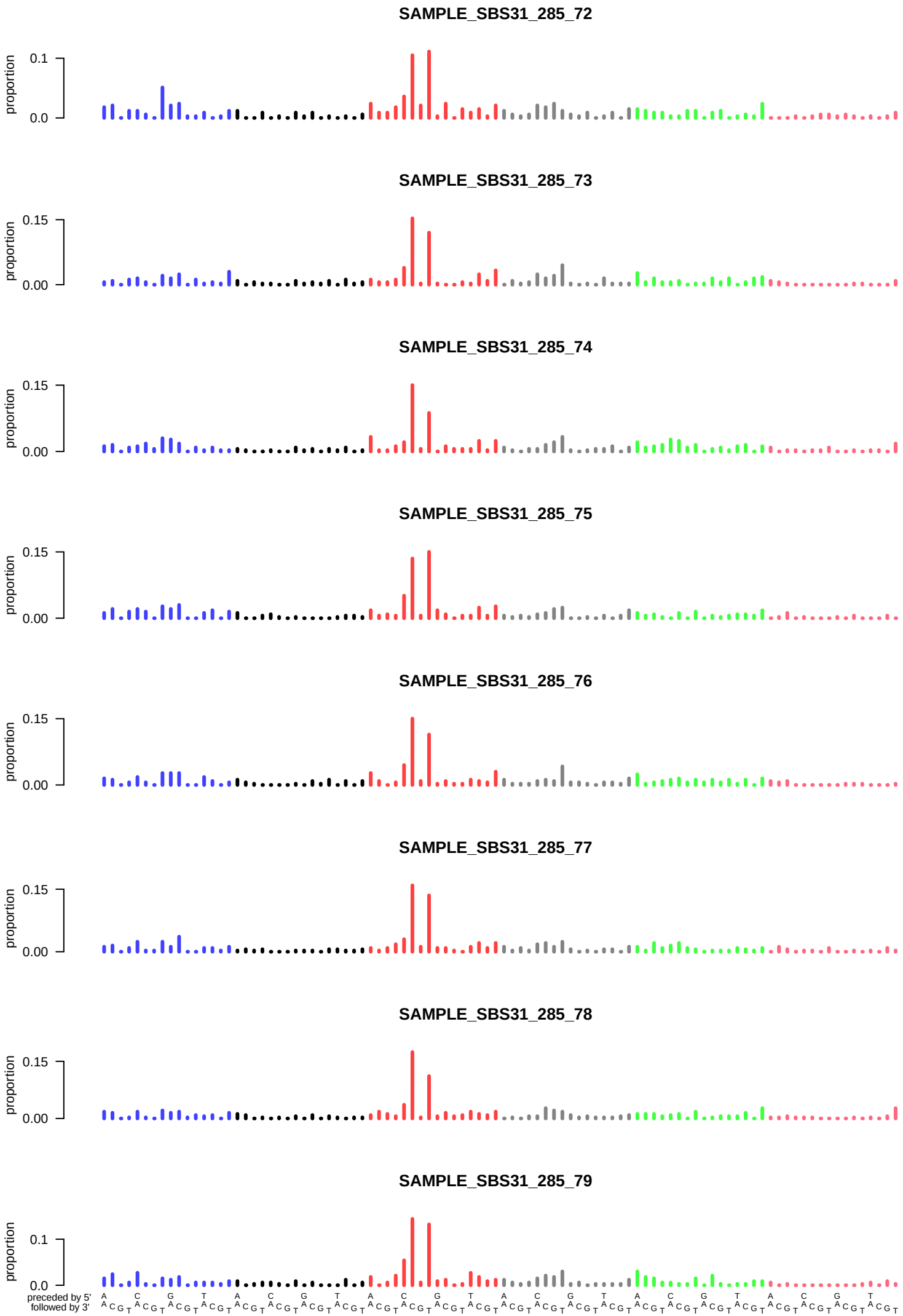
followed by 3'
A C G T A C G T A C G T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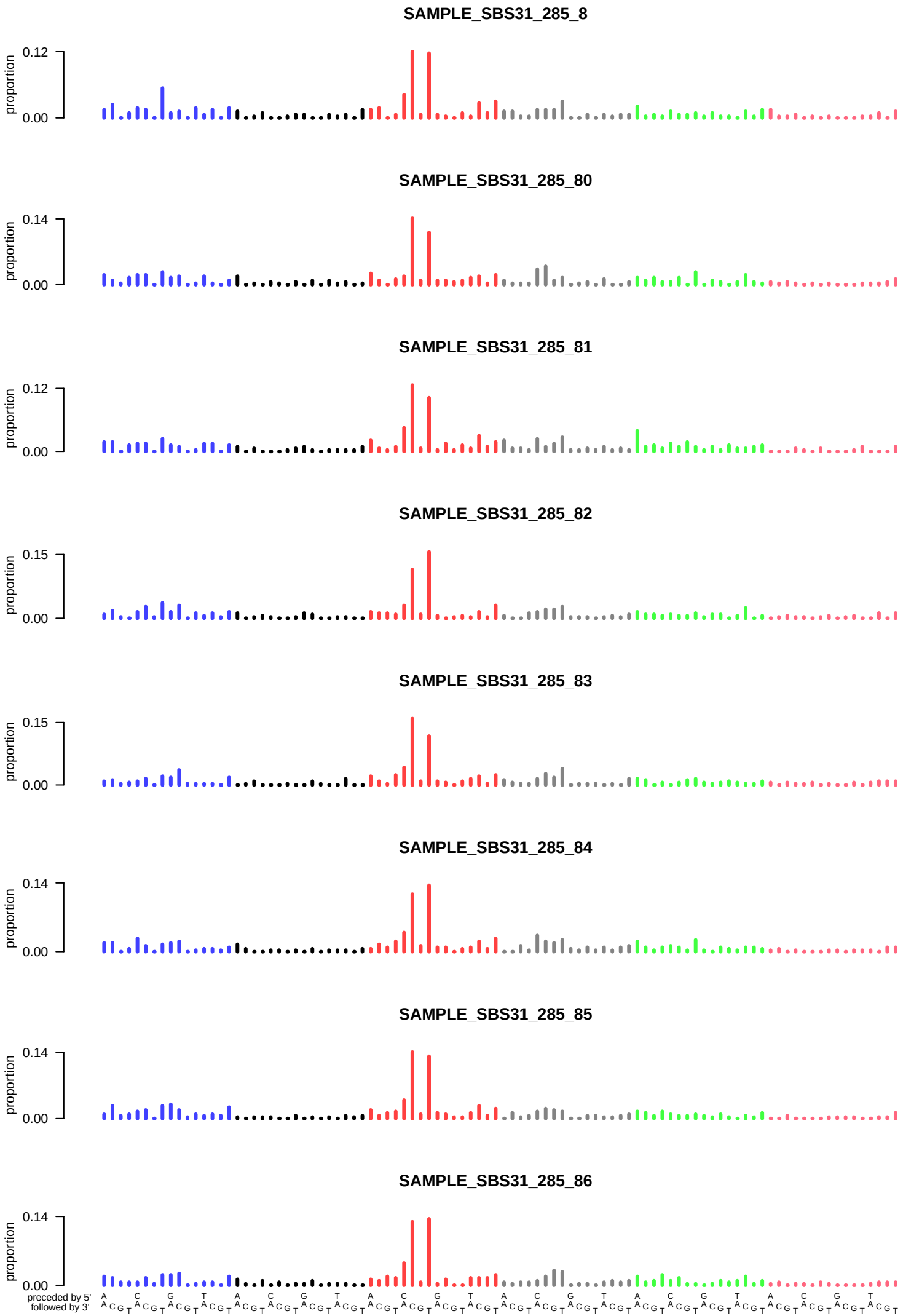
followed by 3'
A C G T A C G T A C G T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SAMPLE_SBS31_285_85
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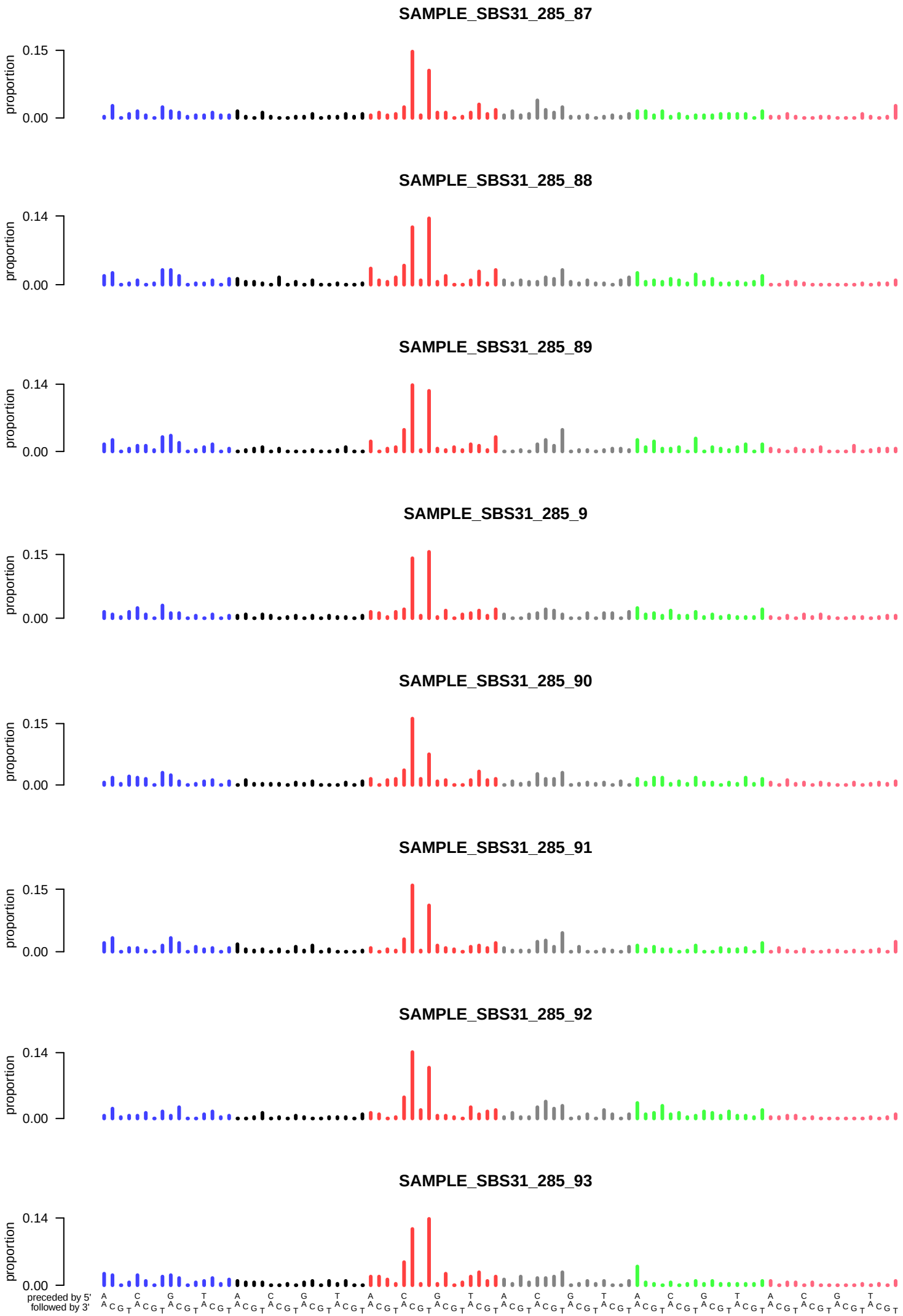
followed by 3'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proportion
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SAMPLE_SBS31_285_92
proportion
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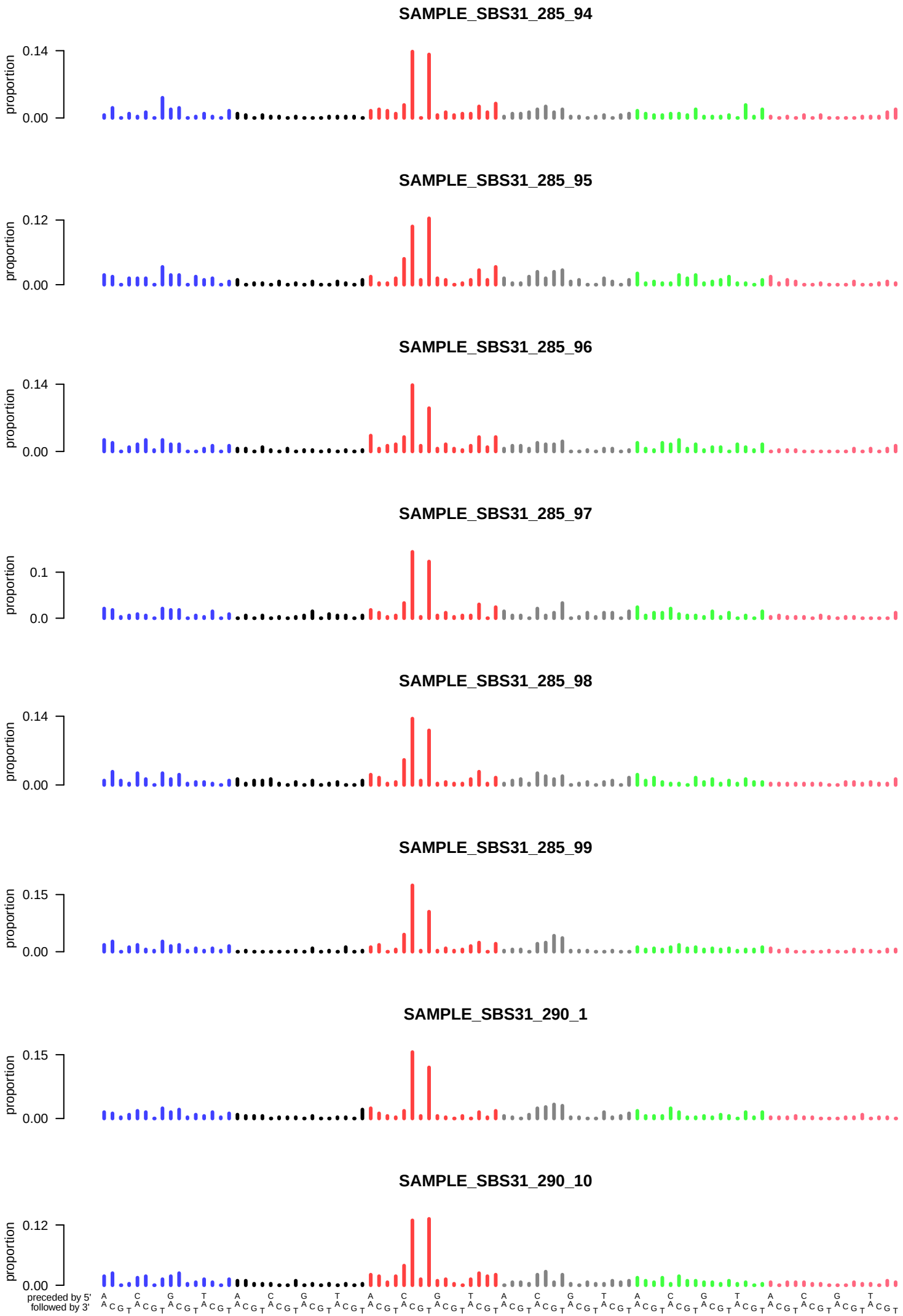
followed by 3'
A C G T A C G T A C G T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SAMPLE_SBS31_285_97
proportion
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SAMPLE_SBS31_285_98
proportion
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SAMPLE_SBS31_285_99
proportion
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SAMPLE_SBS31_290_1
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SAMPLE_SBS31_290_10
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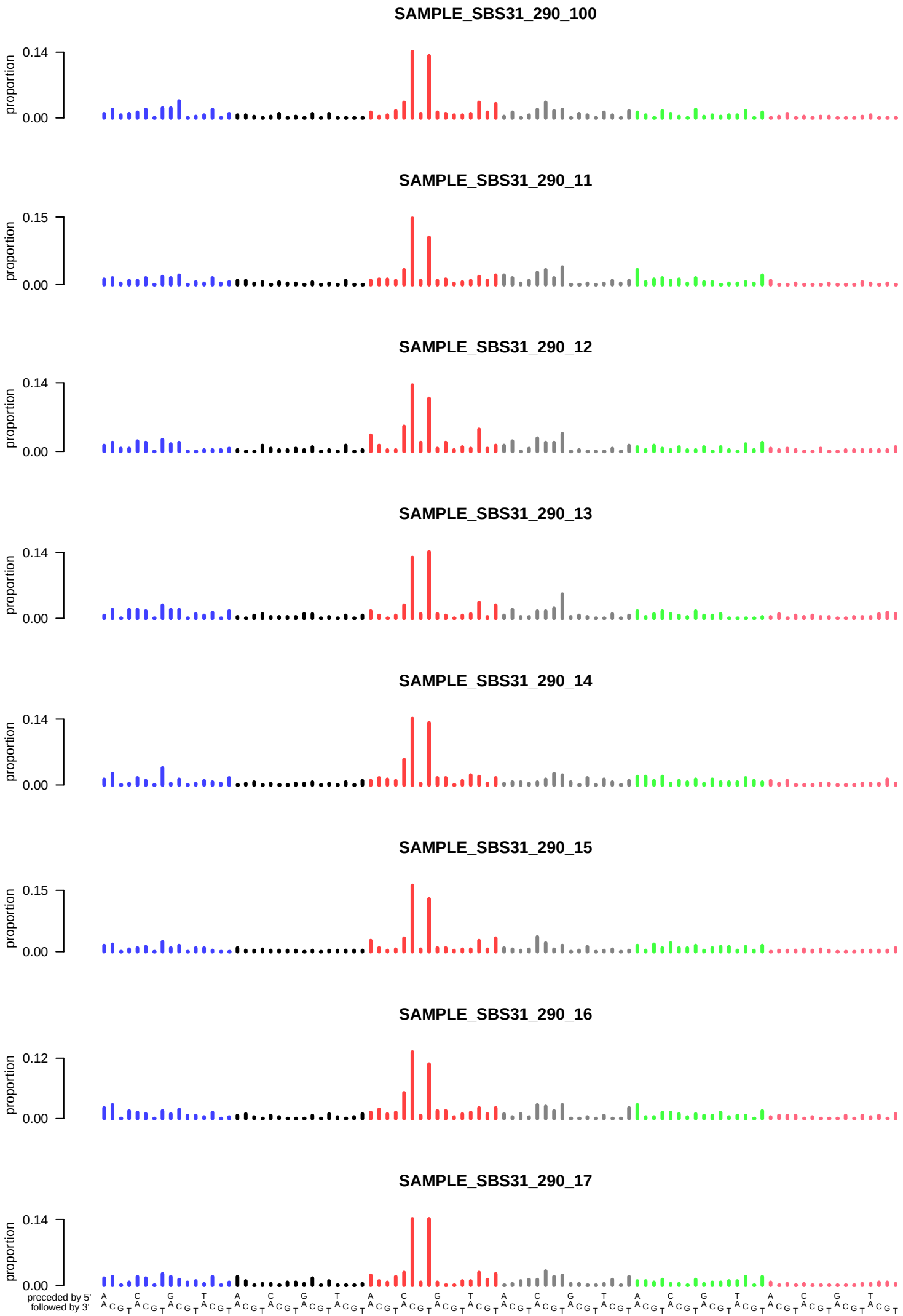
followed by 3'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SAMPLE_SBS31_290_16
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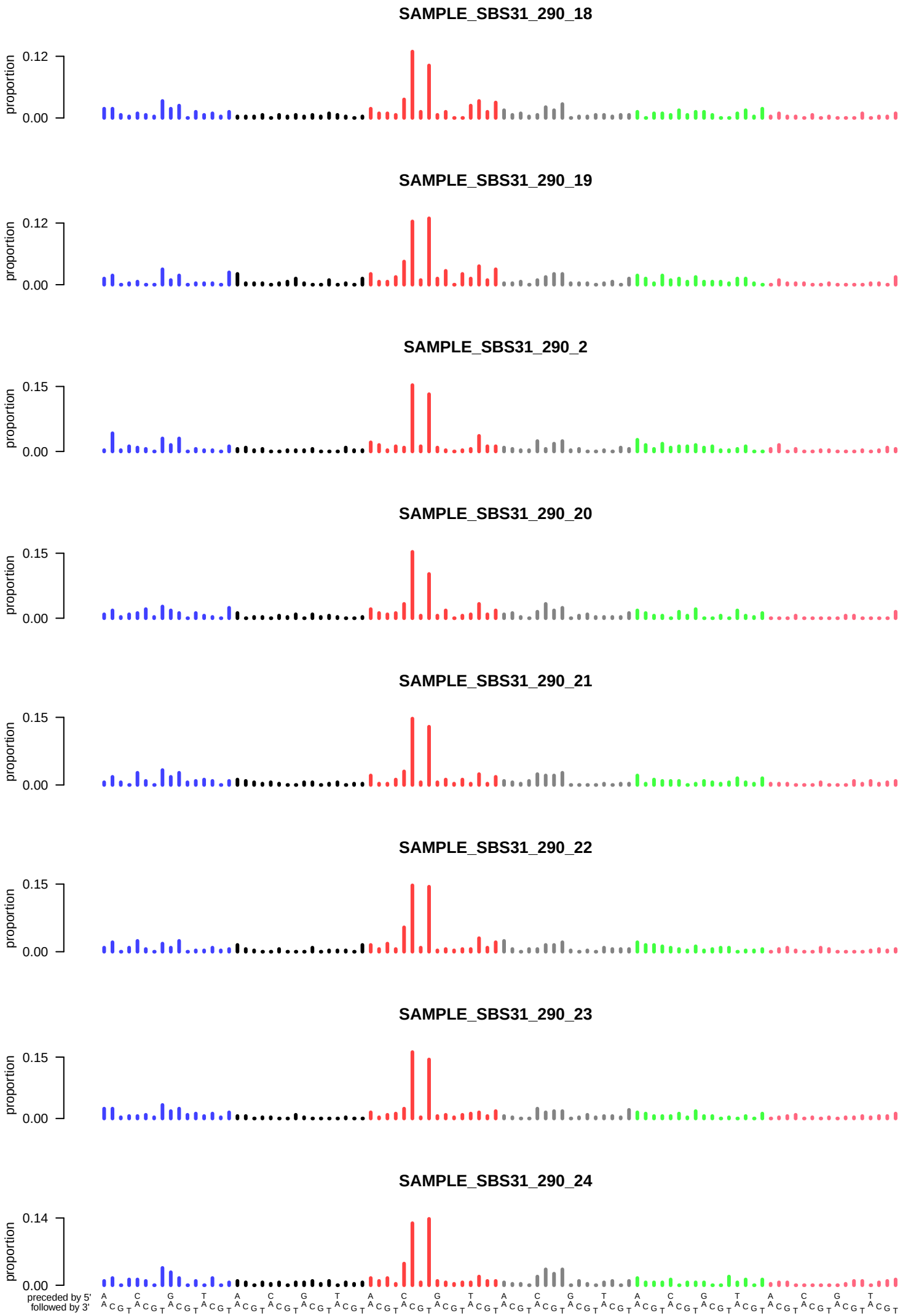
followed by 3'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SAMPLE_SBS31_290_22
proportion
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SAMPLE_SBS31_290_23
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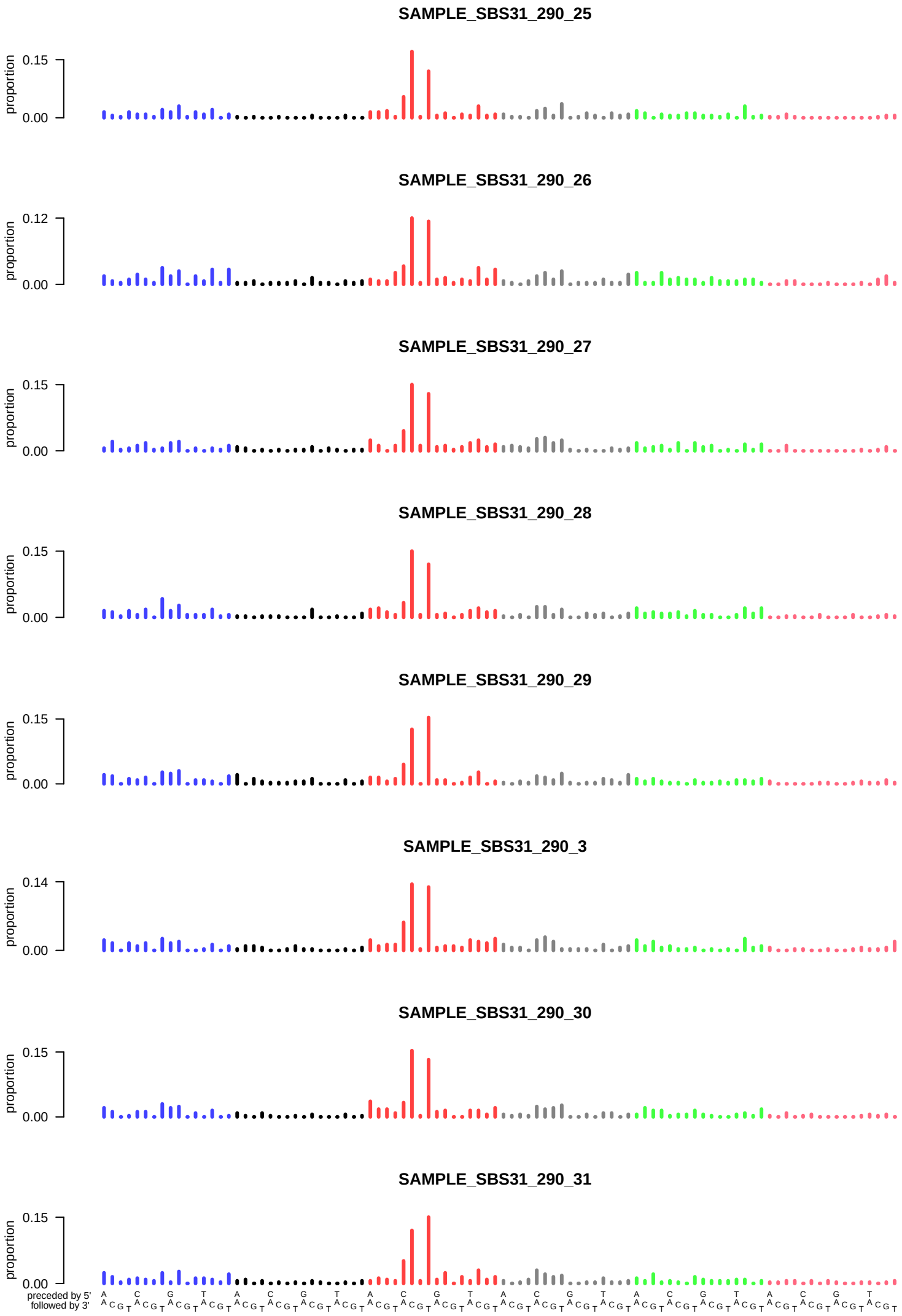
followed by 3'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SAMPLE_SBS31_290_29
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SAMPLE_SBS31_290_3
proportion
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SAMPLE_SBS31_290_30
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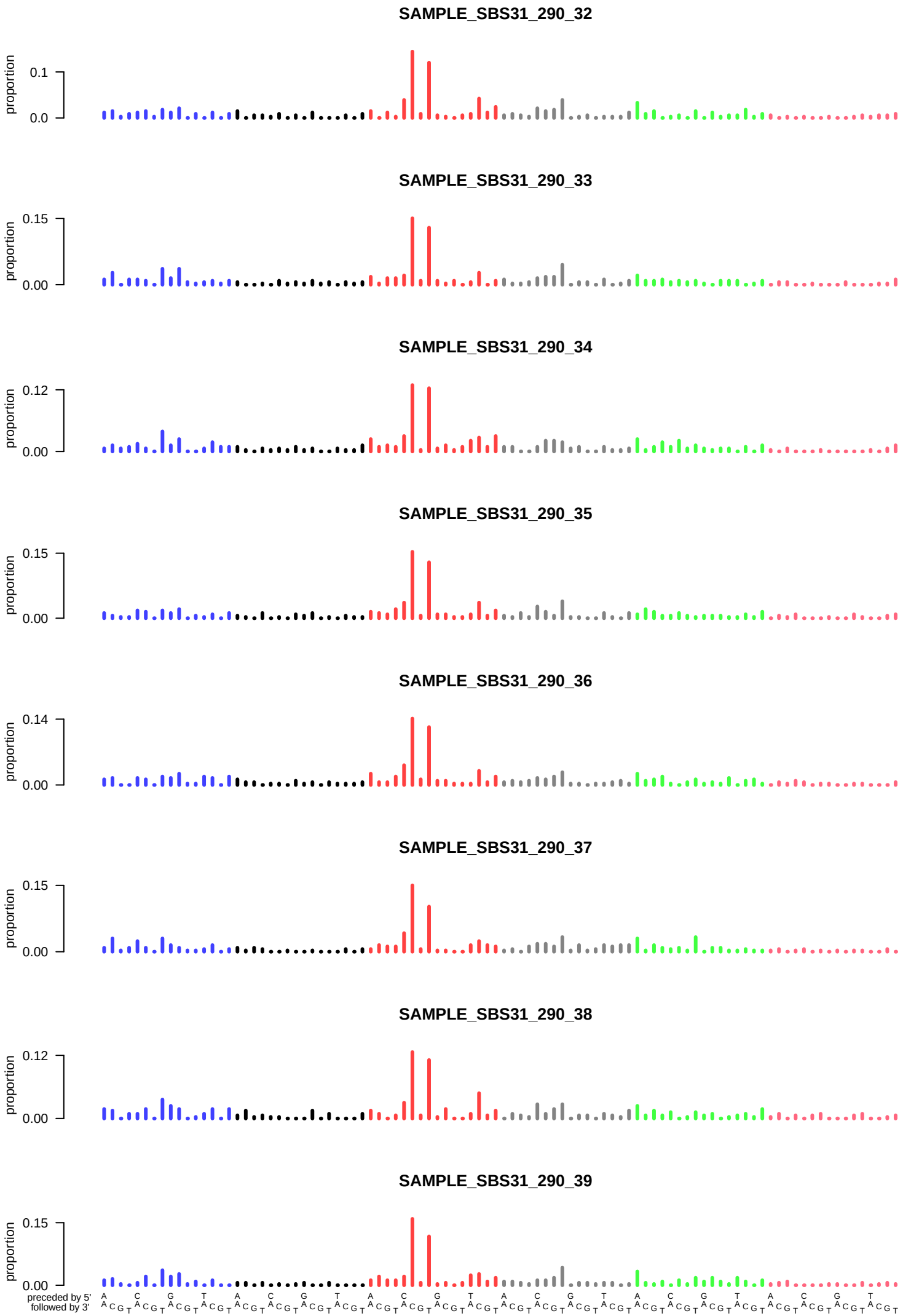
preceded by 5'
followed by 3'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SAMPLE_SBS31_290_34
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SAMPLE_SBS31_290_35
proportion
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SAMPLE_SBS31_290_36
proportion
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SAMPLE_SBS31_290_37
proportion
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0.00
SAMPLE_SBS31_290_38
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SAMPLE_SBS31_290_39
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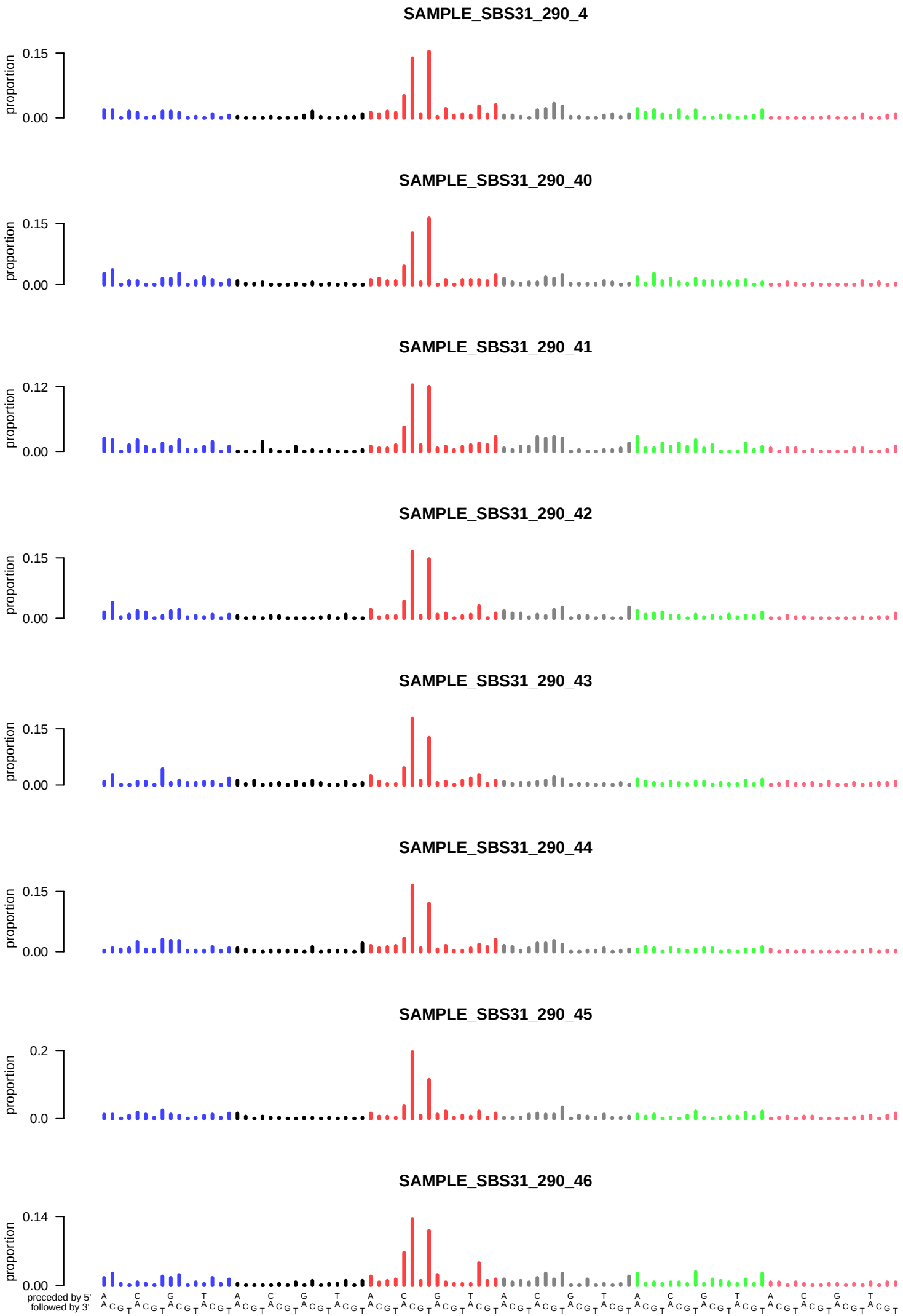
preceded by 5'
followed by 3'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SAMPLE_SBS31_290_42
proportion
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SAMPLE_SBS31_290_43
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SAMPLE_SBS31_290_44
proportion
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SAMPLE_SBS31_290_45
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SAMPLE_SBS31_290_46
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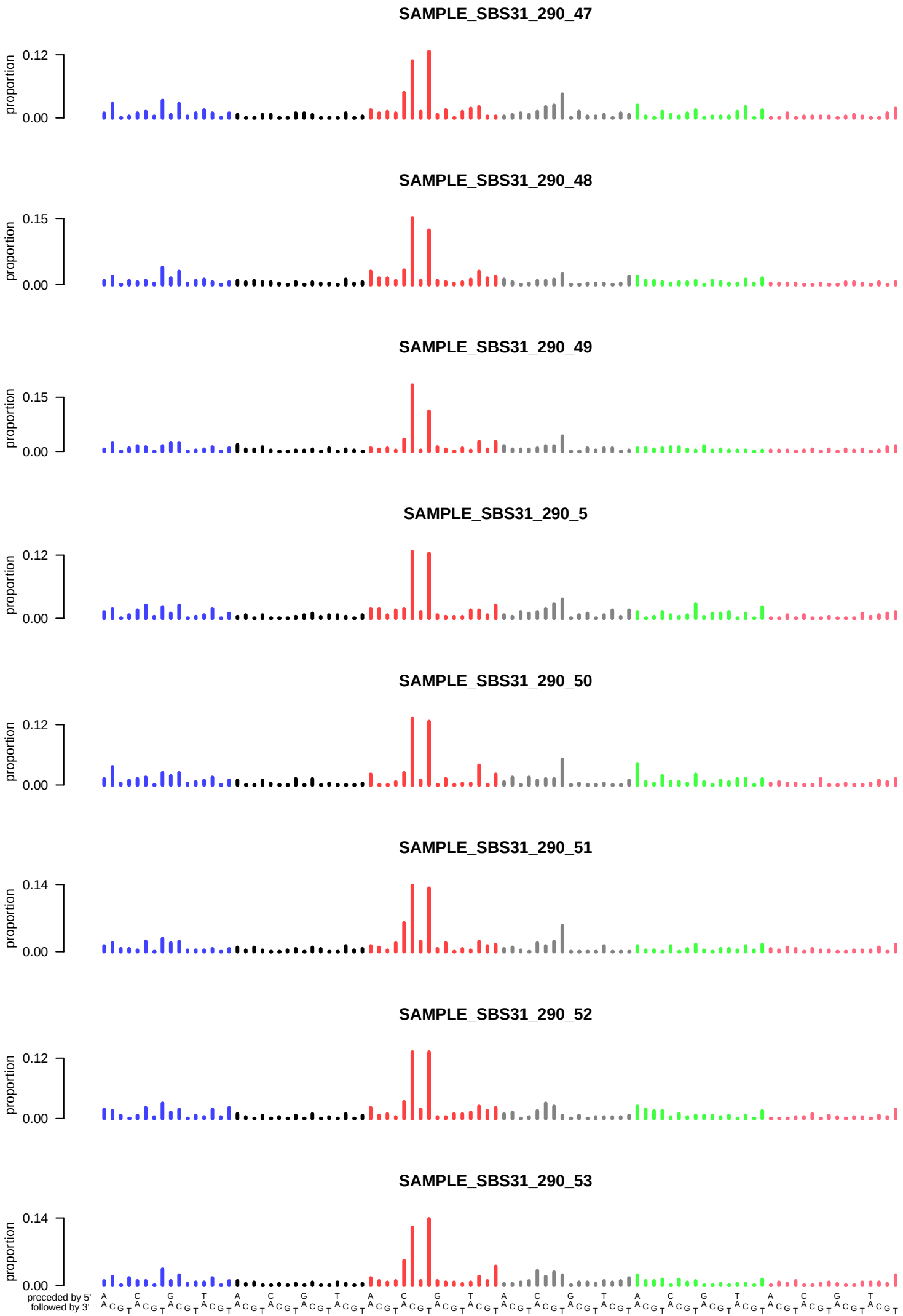
followed by 3'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SAMPLE_SBS31_290_49
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SAMPLE_SBS31_290_5
proportion
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SAMPLE_SBS31_290_50
proportion
0.12
0.00
SAMPLE_SBS31_290_51
proportion
0.14
0.00
SAMPLE_SBS31_290_52
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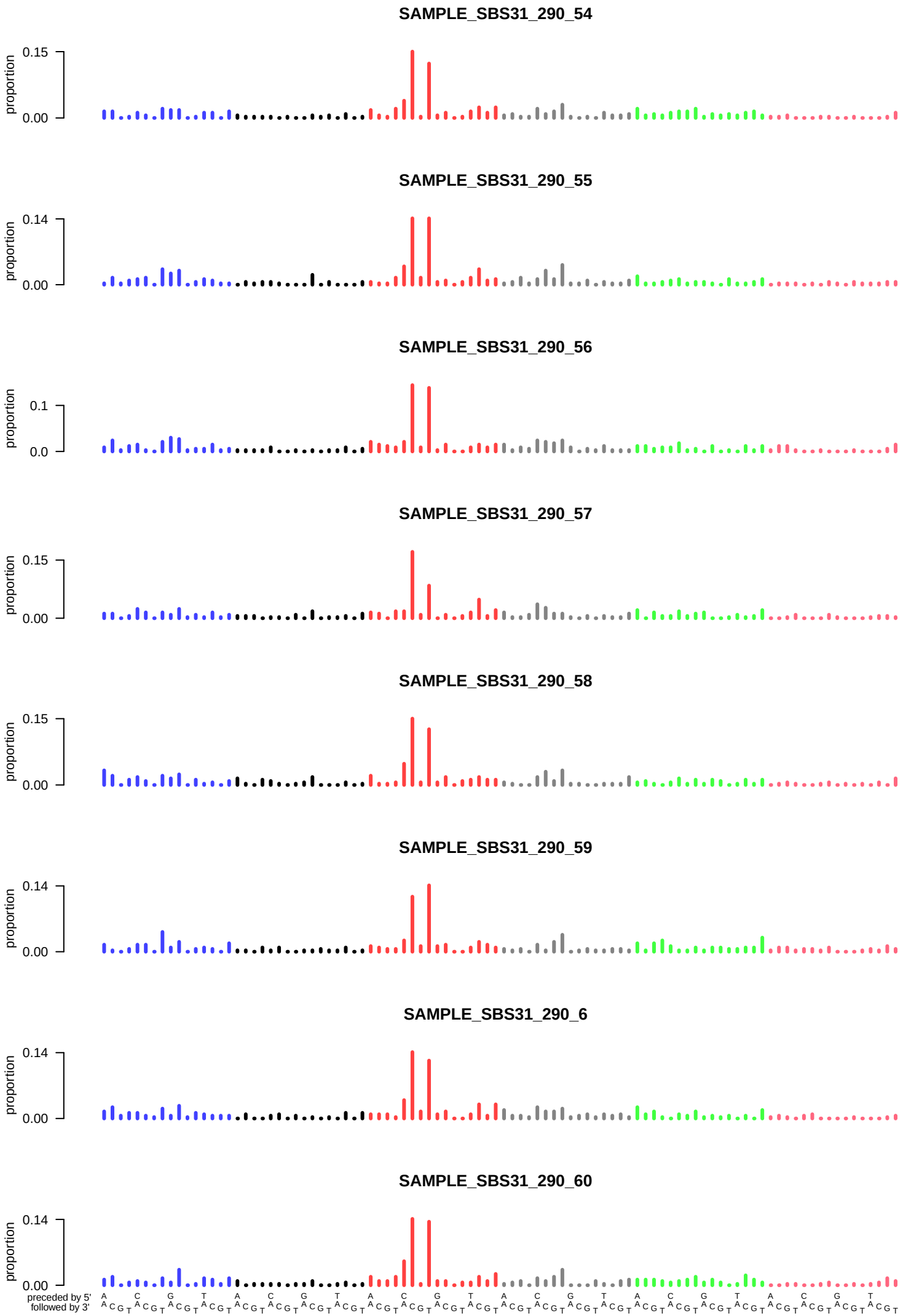
SAMPLE_SBS31_290_53
proportion
0.14
0.00
preceded by 5'
followed by 3'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SAMPLE_SBS31_290_57
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SAMPLE_SBS31_290_58
proportion
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SAMPLE_SBS31_290_59
proportion
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0.00
SAMPLE_SBS31_290_6
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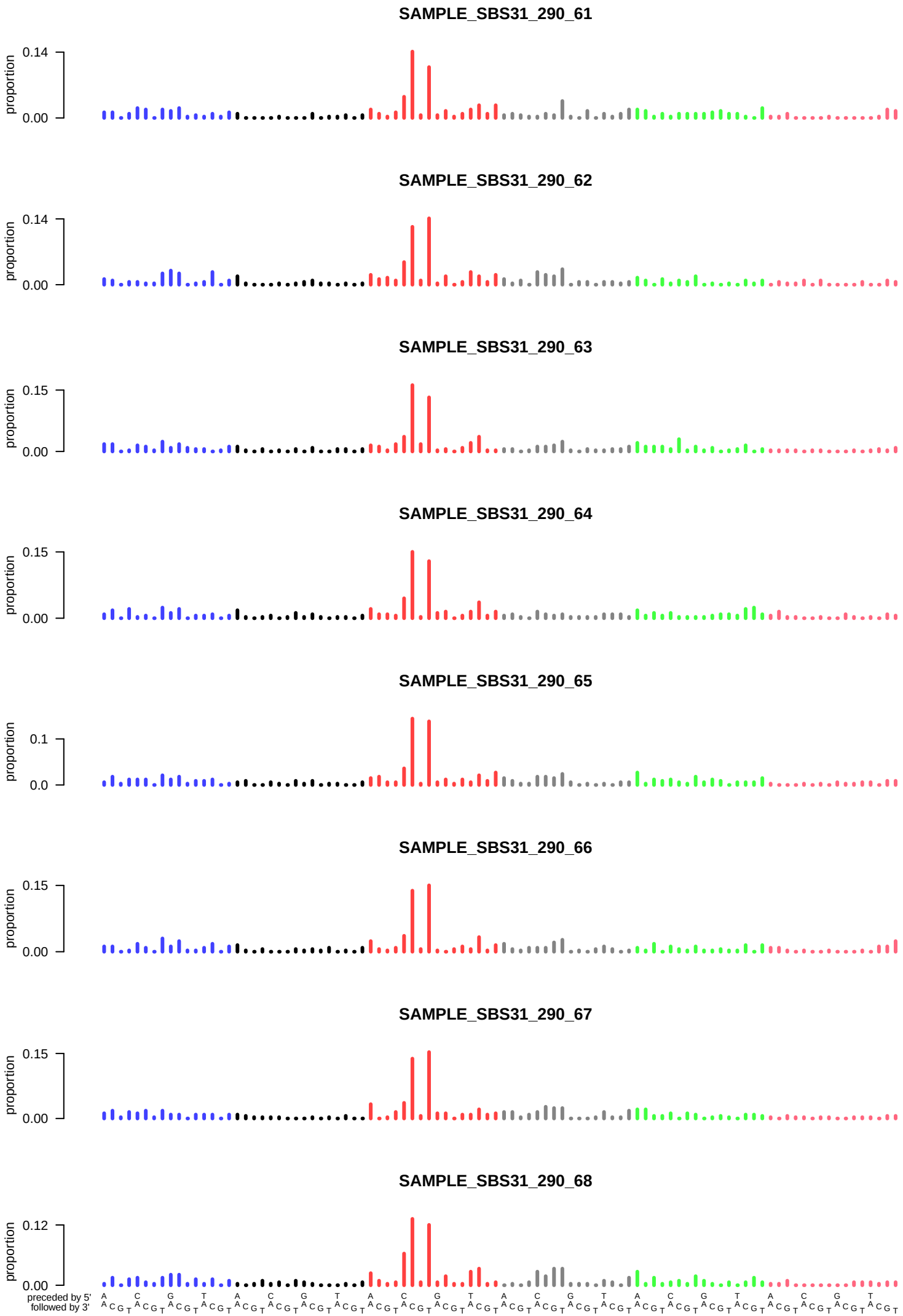
SAMPLE_SBS31_290_60
proportion
0.14
0.00
preceded by 5'
followed by 3'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proportion
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SAMPLE_SBS31_290_64
proportion
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SAMPLE_SBS31_290_65
proportion
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0.0
SAMPLE_SBS31_290_66
proportion
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SAMPLE_SBS31_290_67
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SAMPLE_SBS31_290_68
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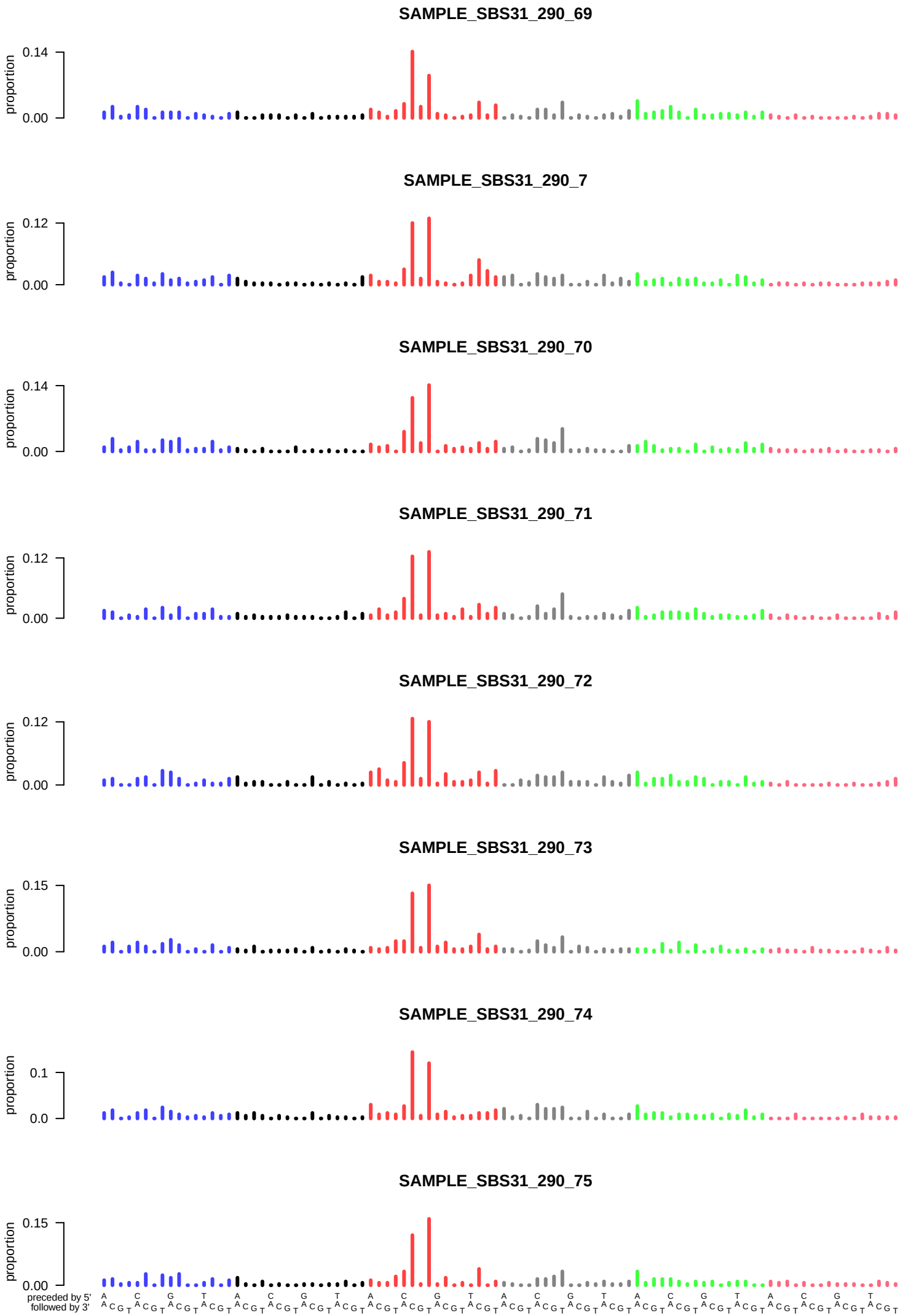
0.00
preceded by 5'
followed by 3'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SAMPLE_SBS31_290_71
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SAMPLE_SBS31_290_73
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SAMPLE_SBS31_290_74
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SAMPLE_SBS31_290_75
proportion
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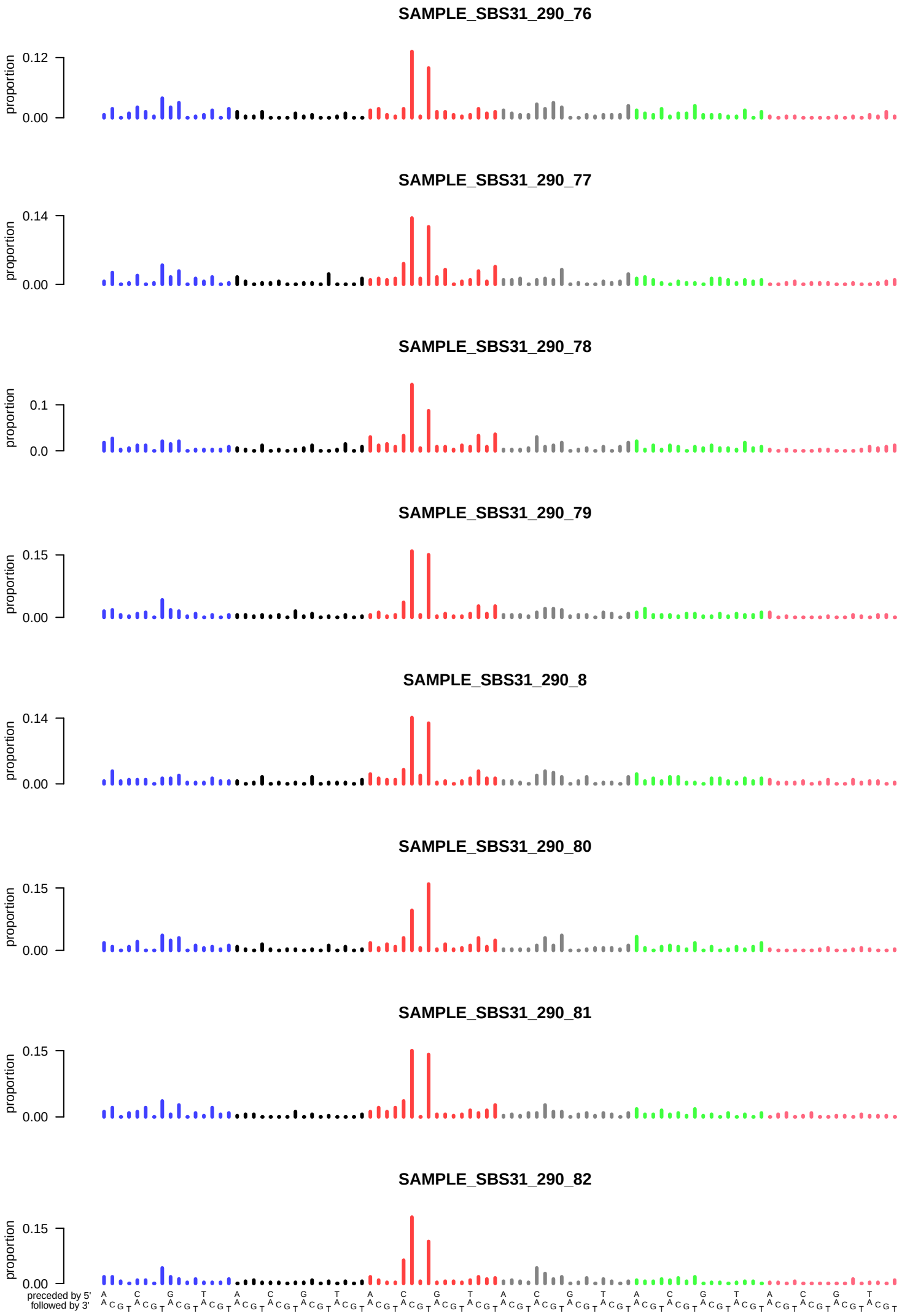
0.00
preceded by 5'
followed by 3'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SAMPLE_SBS31_290_78
proportion
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SAMPLE_SBS31_290_79
proportion
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SAMPLE_SBS31_290_8
proportion
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SAMPLE_SBS31_290_80
proportion
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0.00
SAMPLE_SBS31_290_81
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SAMPLE_SBS31_290_82
proportion
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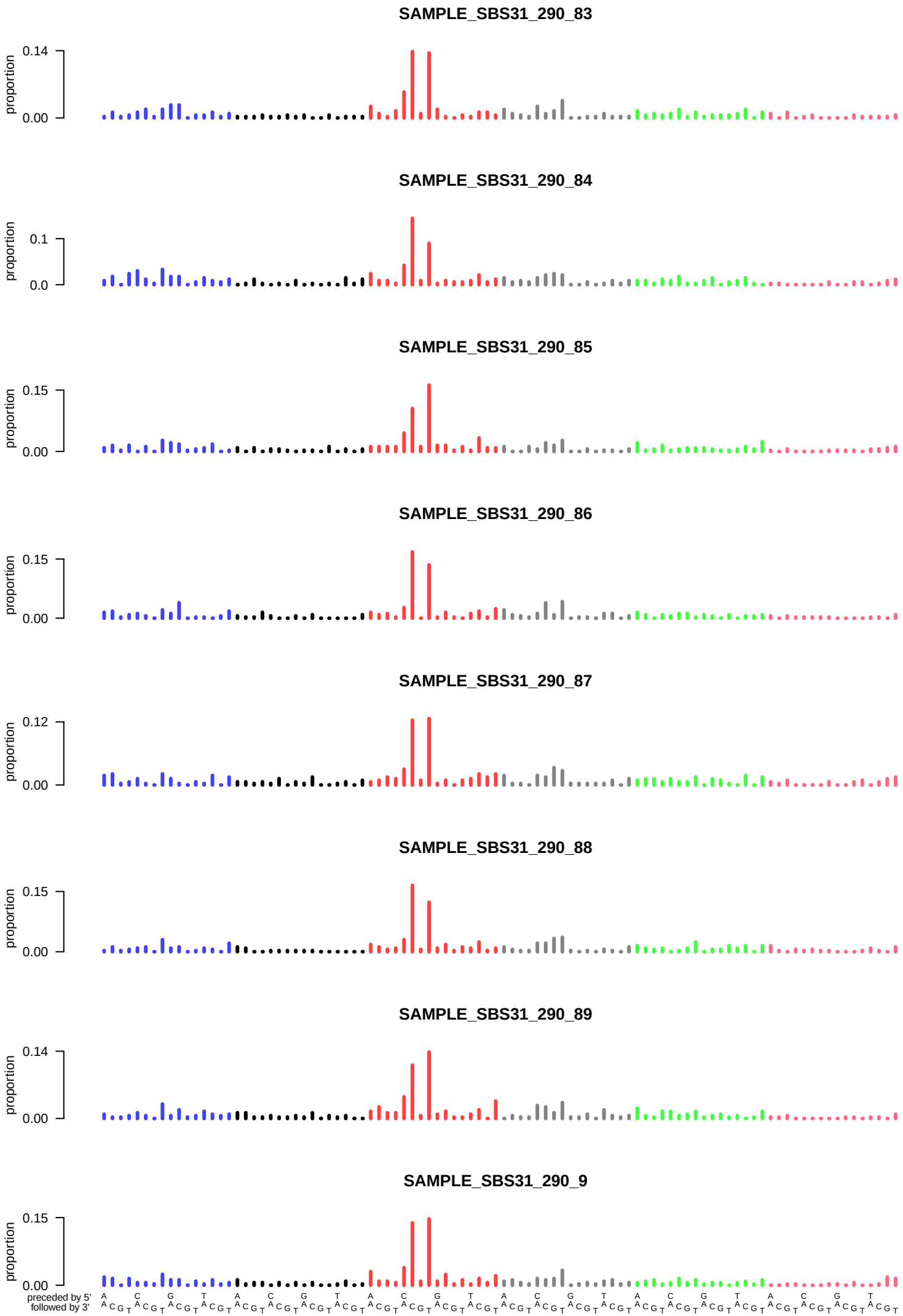
0.00
preceded by 5'
followed by 3'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SAMPLE_SBS31_290_85
proportion
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SAMPLE_SBS31_290_86
proportion
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SAMPLE_SBS31_290_87
proportion
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SAMPLE_SBS31_290_88
proportion
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0.00
SAMPLE_SBS31_290_89
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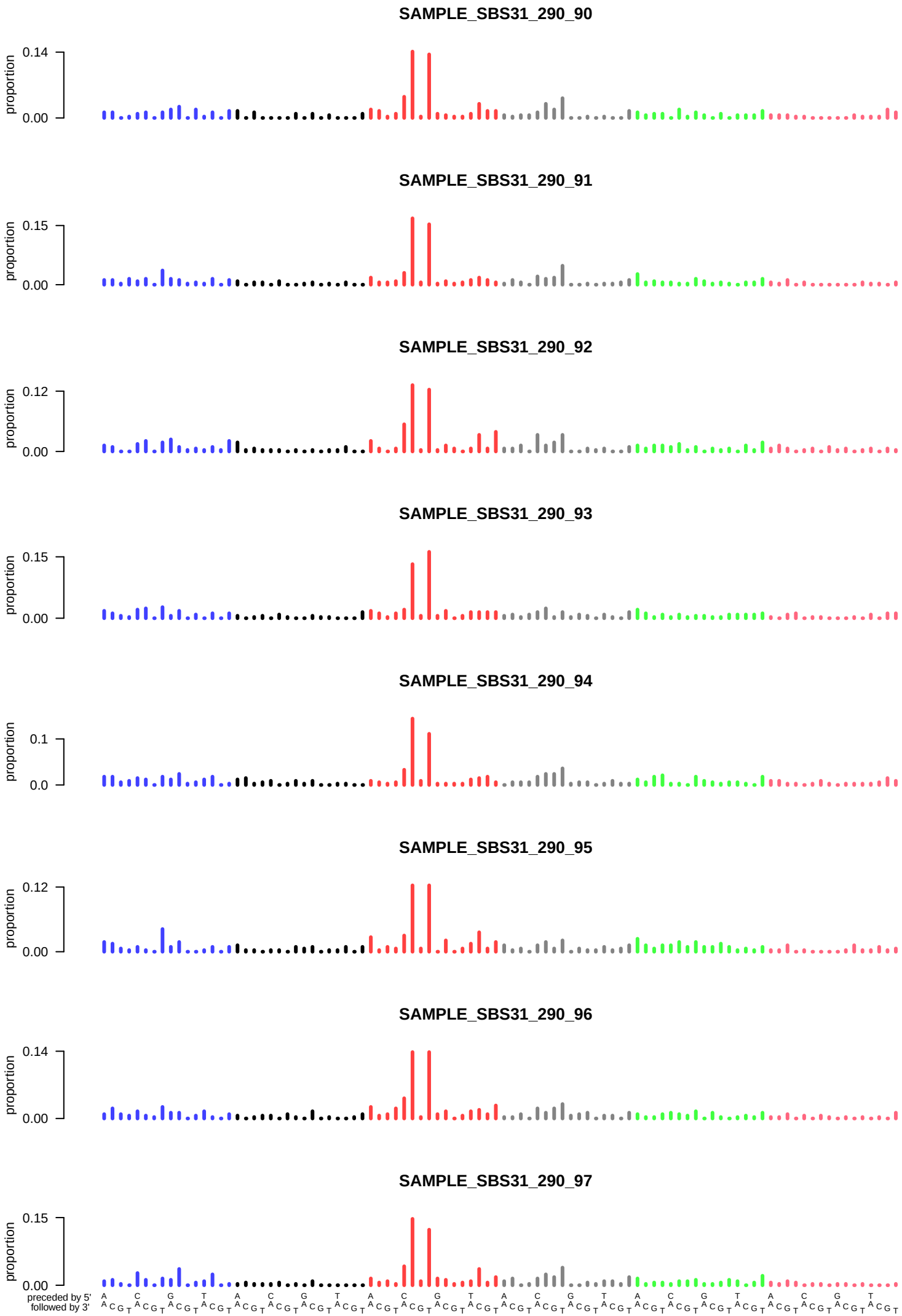
preceded by 5'
followed by 3'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SAMPLE_SBS31_290_94
proportion
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SAMPLE_SBS31_290_95
proportion
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SAMPLE_SBS31_290_96
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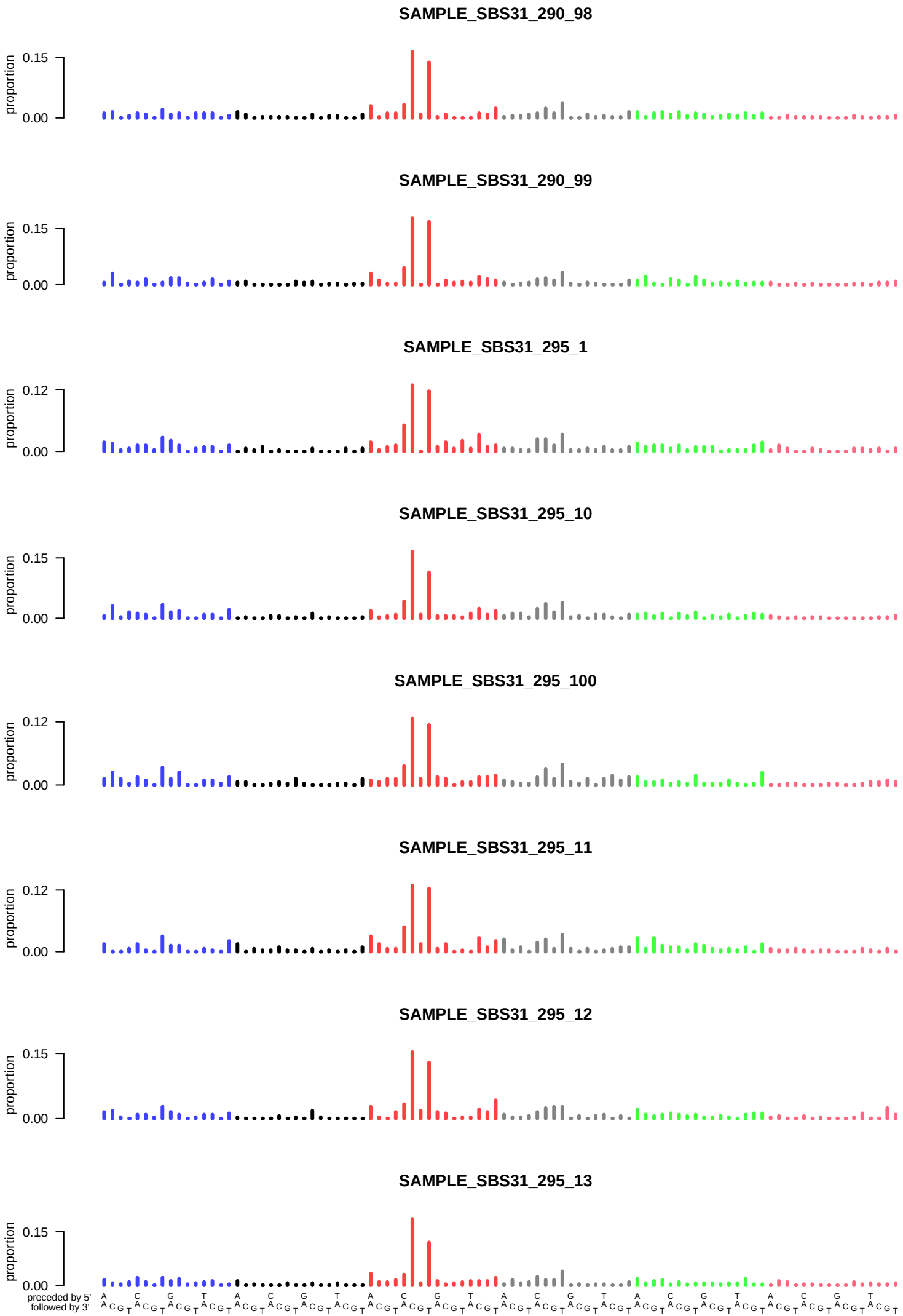
preceded by 5'
followed by 3'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SAMPLE_SBS31_295_10
proportion
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SAMPLE_SBS31_295_100
proportion
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SAMPLE_SBS31_295_11
proportion
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SAMPLE_SBS31_295_12
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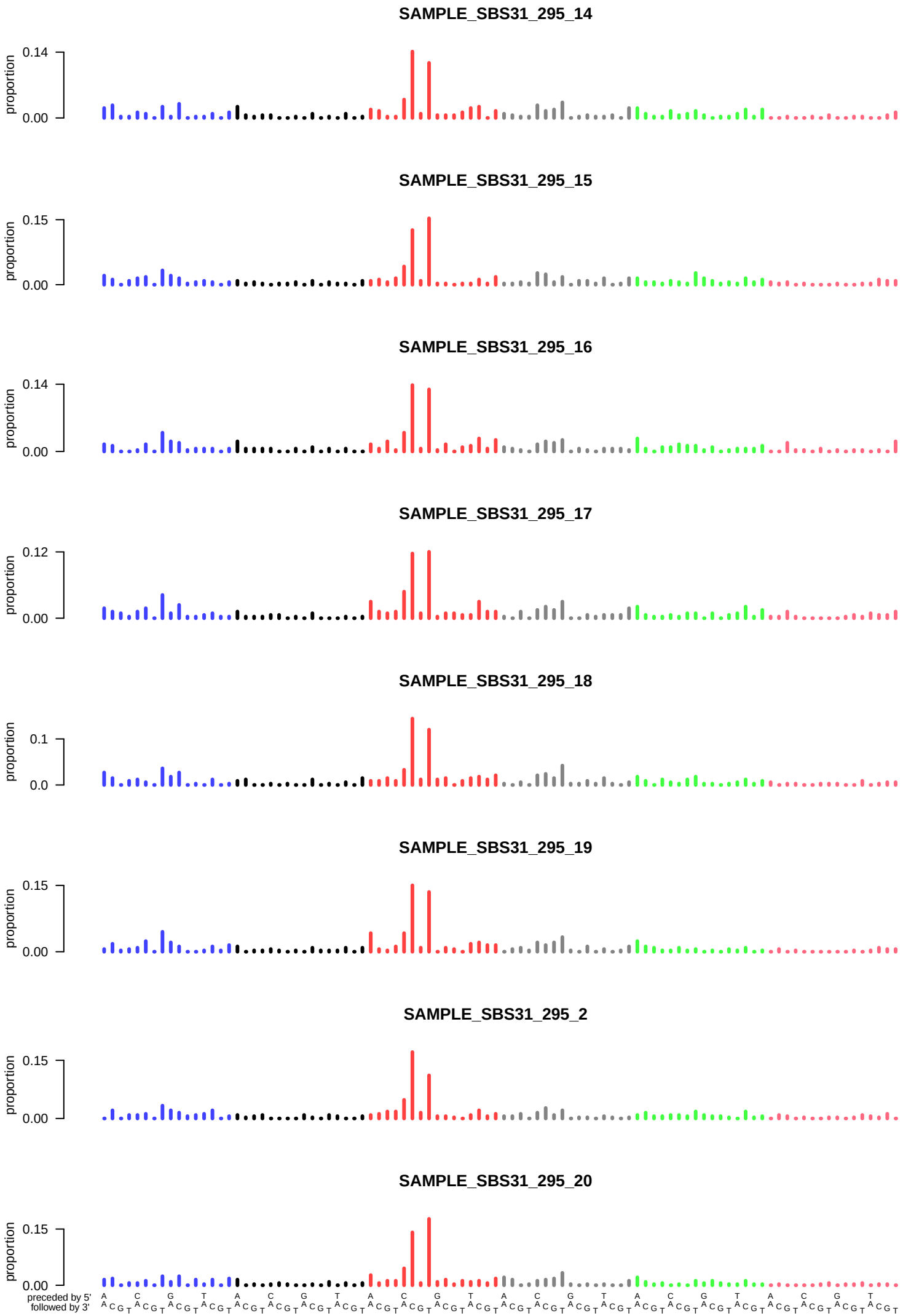
followed by 3'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proportion
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SAMPLE_SBS31_295_18
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SAMPLE_SBS31_295_19
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SAMPLE_SBS31_295_2
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SAMPLE_SBS31_295_20
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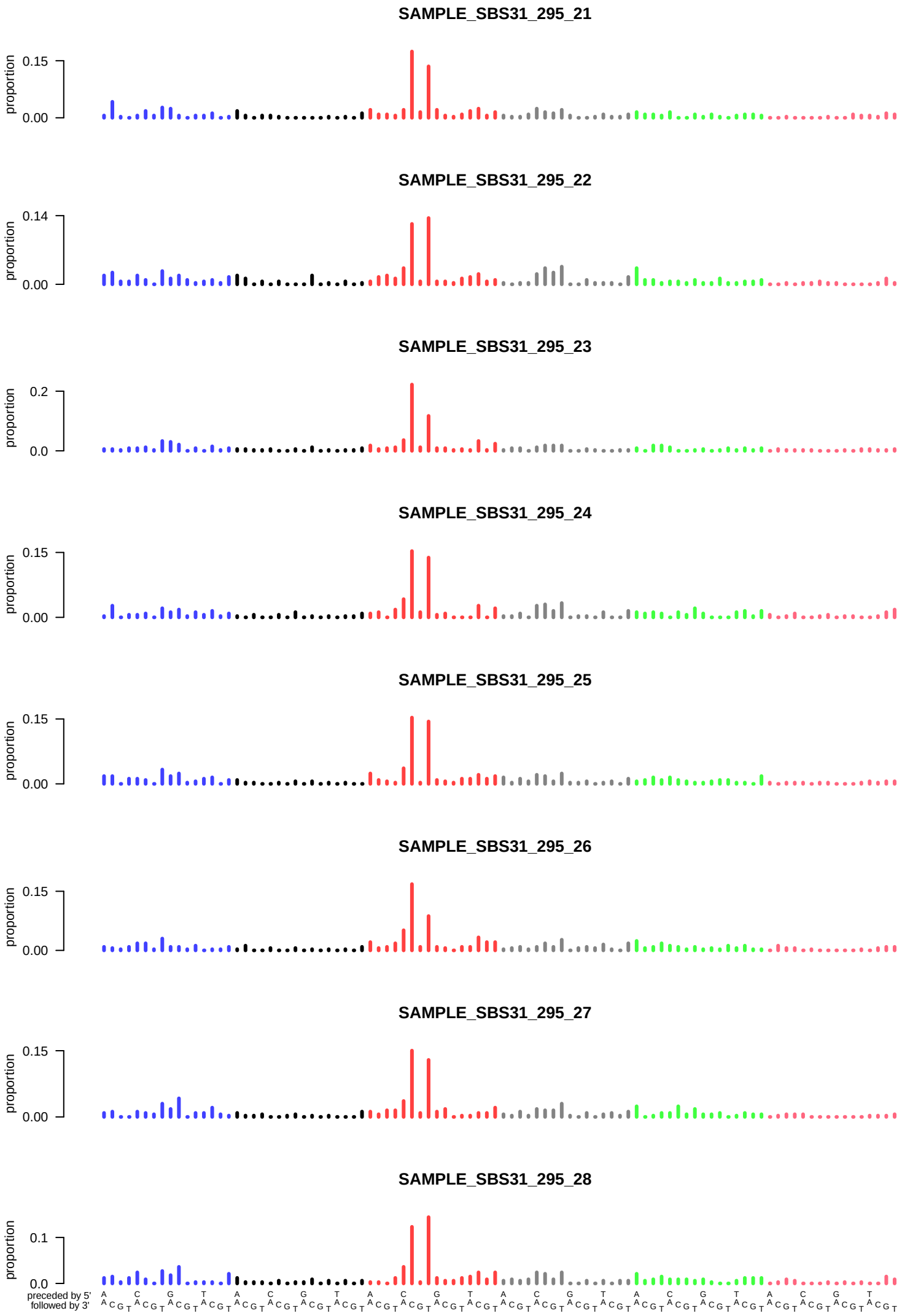
preceded by 5'
followed by 3'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proportion
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SAMPLE_SBS31_295_25
proportion
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SAMPLE_SBS31_295_26
proportion
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SAMPLE_SBS31_295_27
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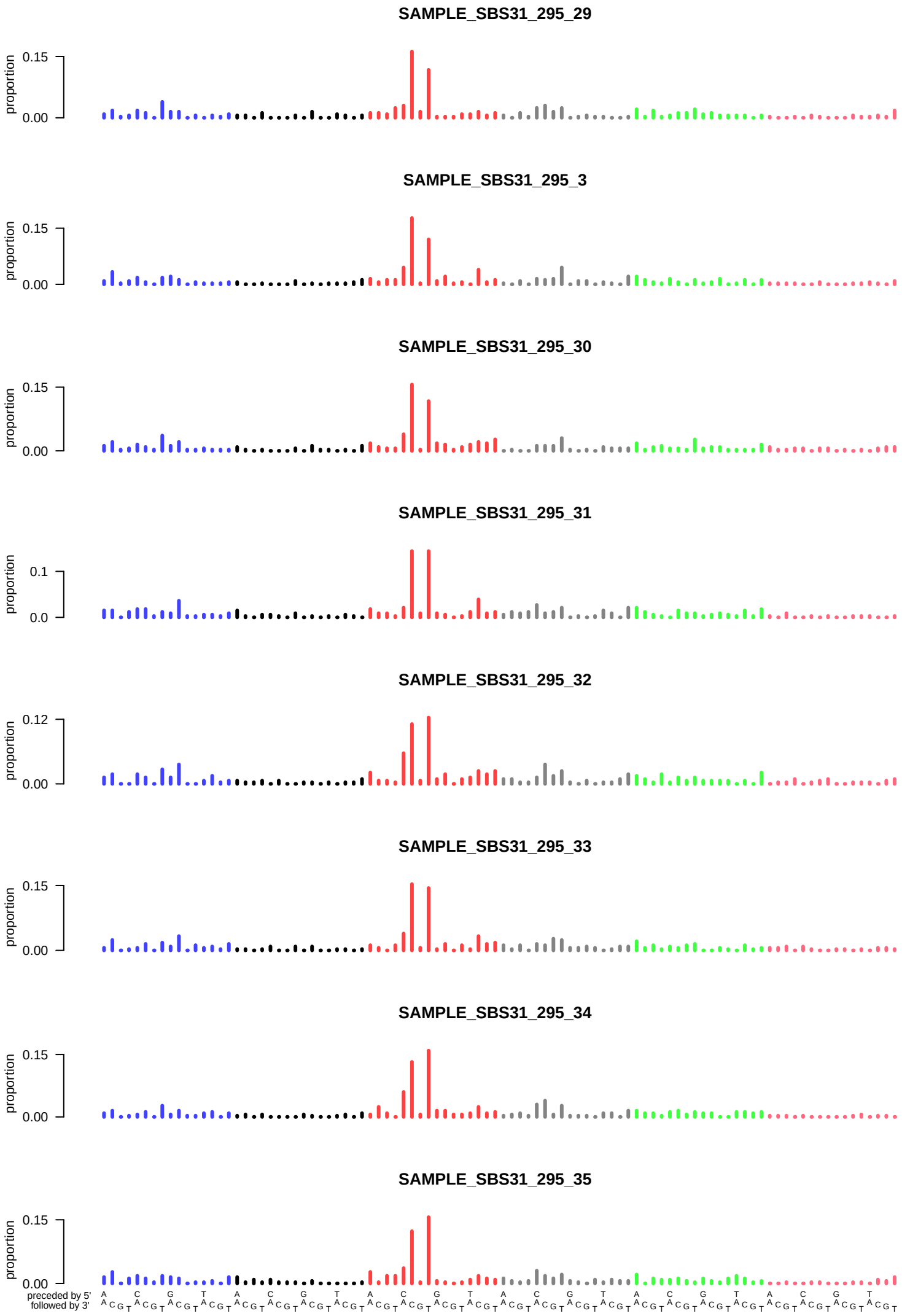
preceded by 5'
followed by 3'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proportion
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SAMPLE_SBS31_295_32
proportion
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SAMPLE_SBS31_295_33
proportion
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SAMPLE_SBS31_295_34
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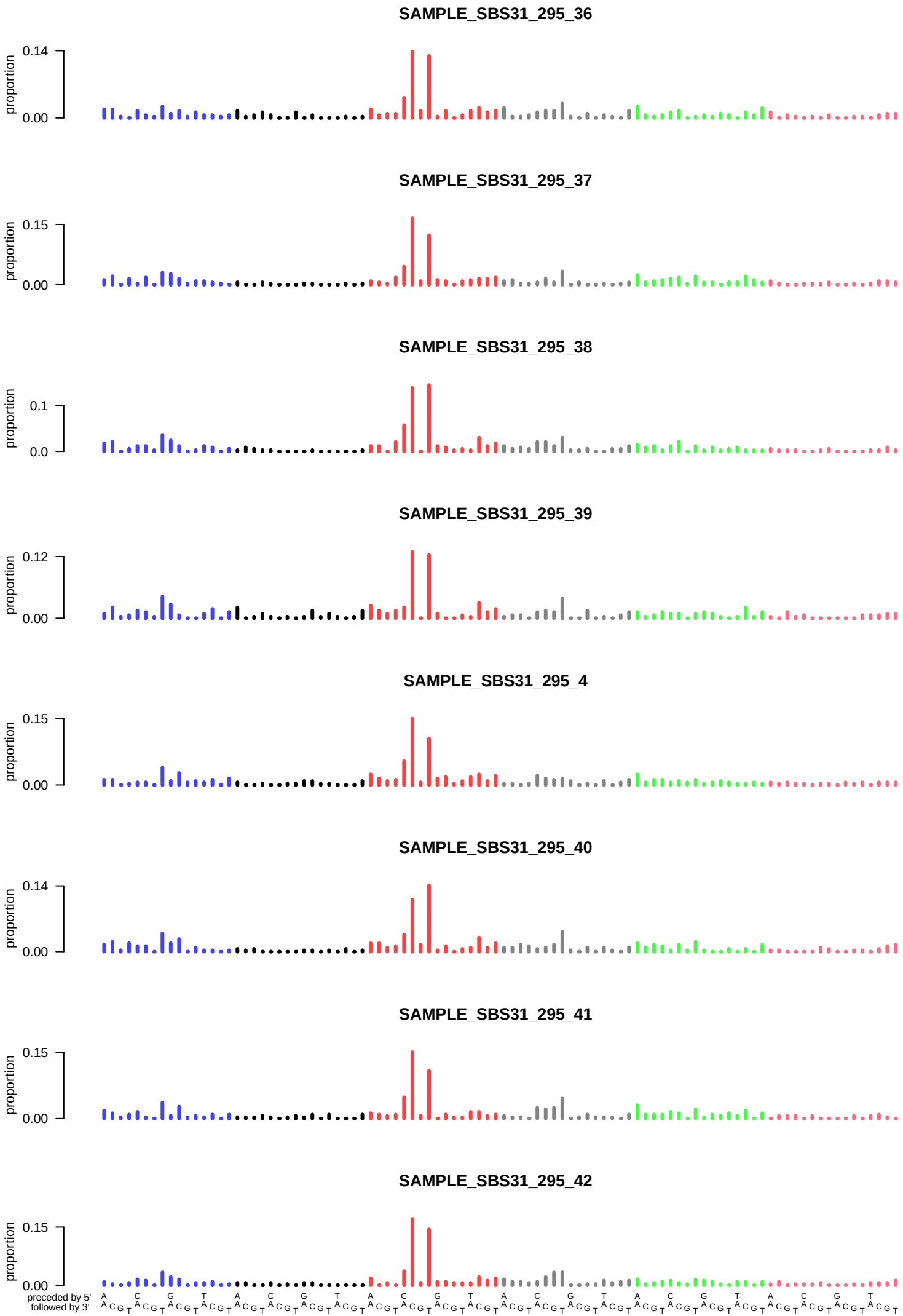
followed by 3'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SAMPLE_SBS31_295_40
proportion
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SAMPLE_SBS31_295_41
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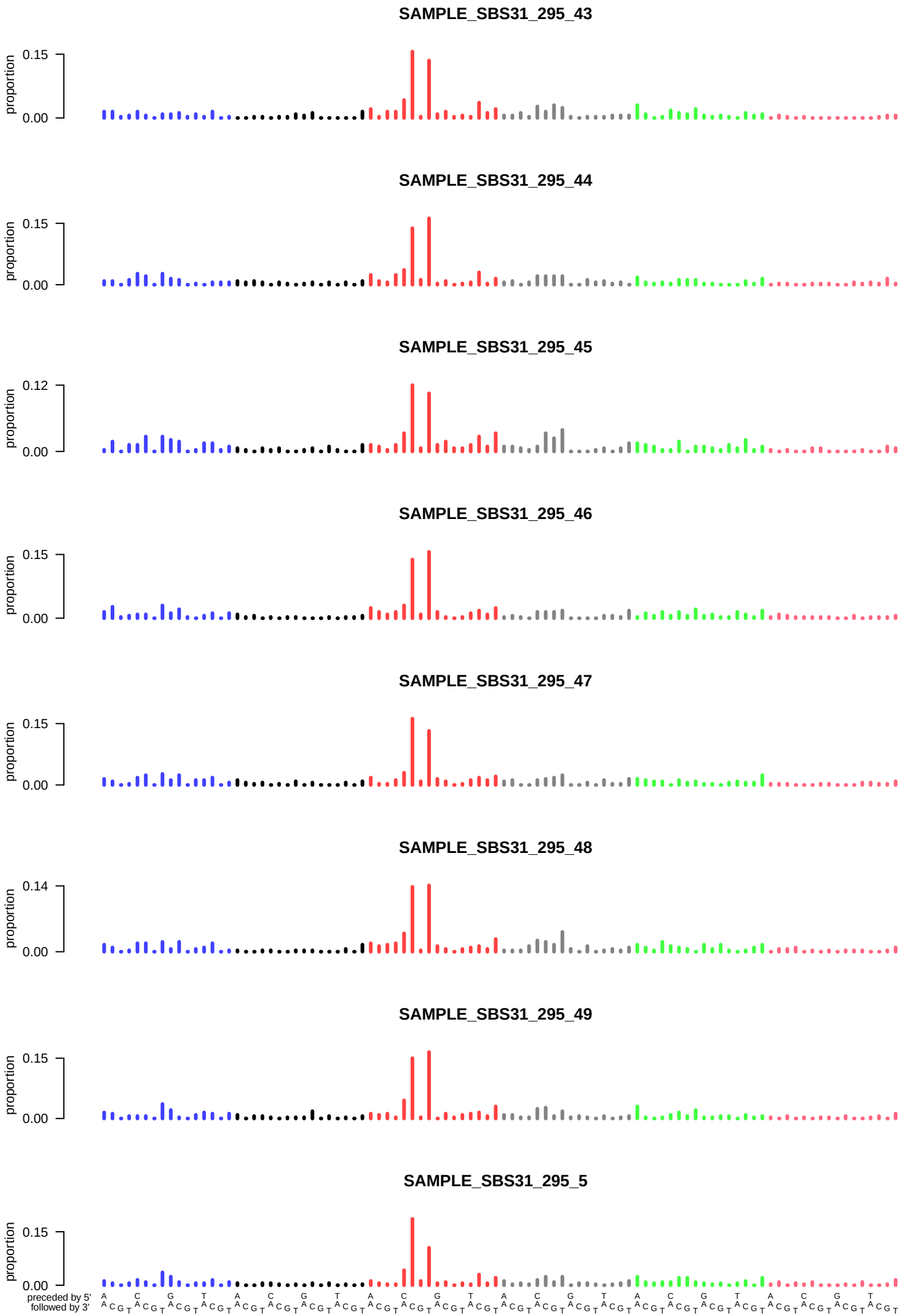
followed by 3'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SAMPLE_SBS31_295_47
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SAMPLE_SBS31_295_48
proportion
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SAMPLE_SBS31_295_49
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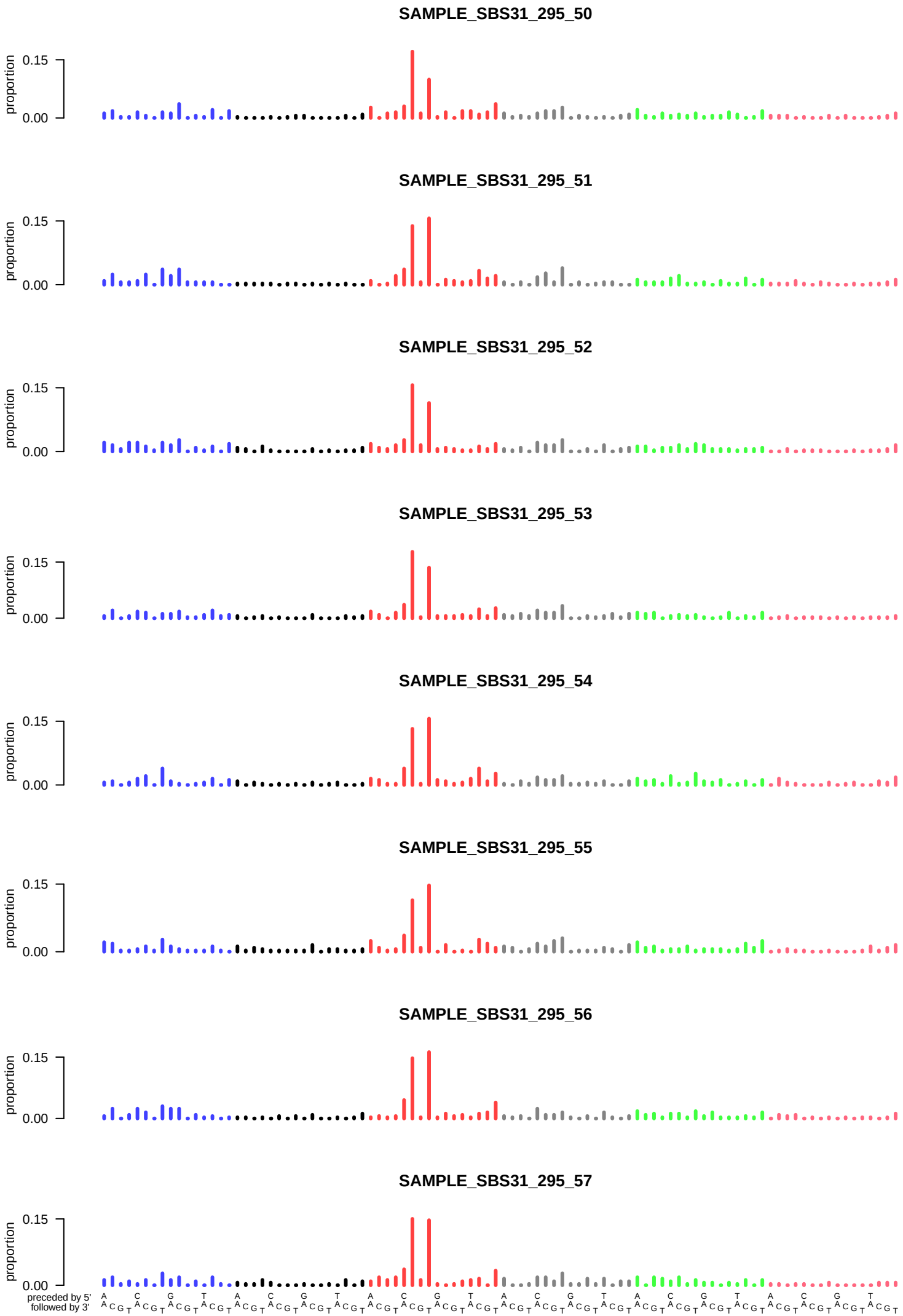
followed by 3'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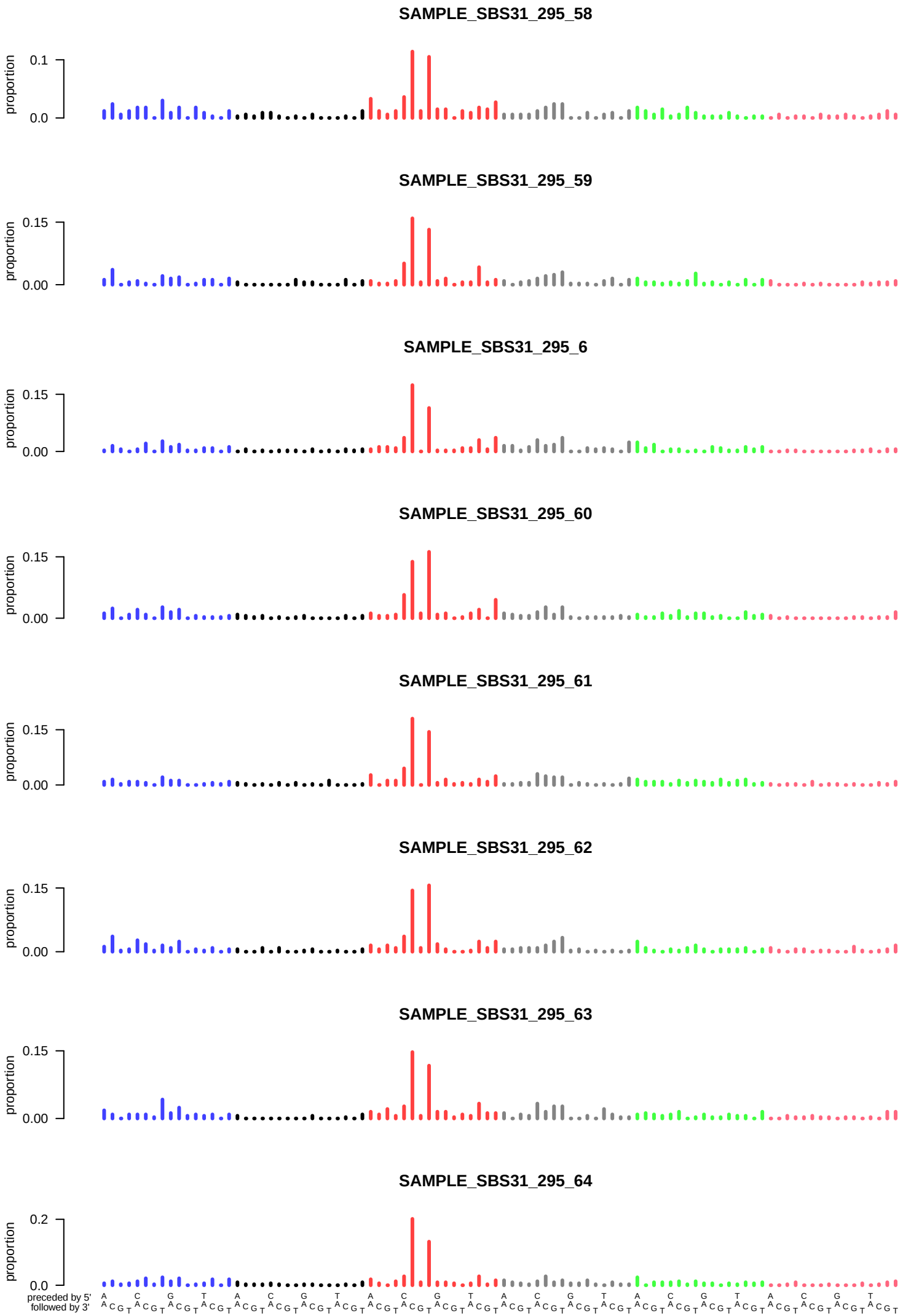
followed by 3'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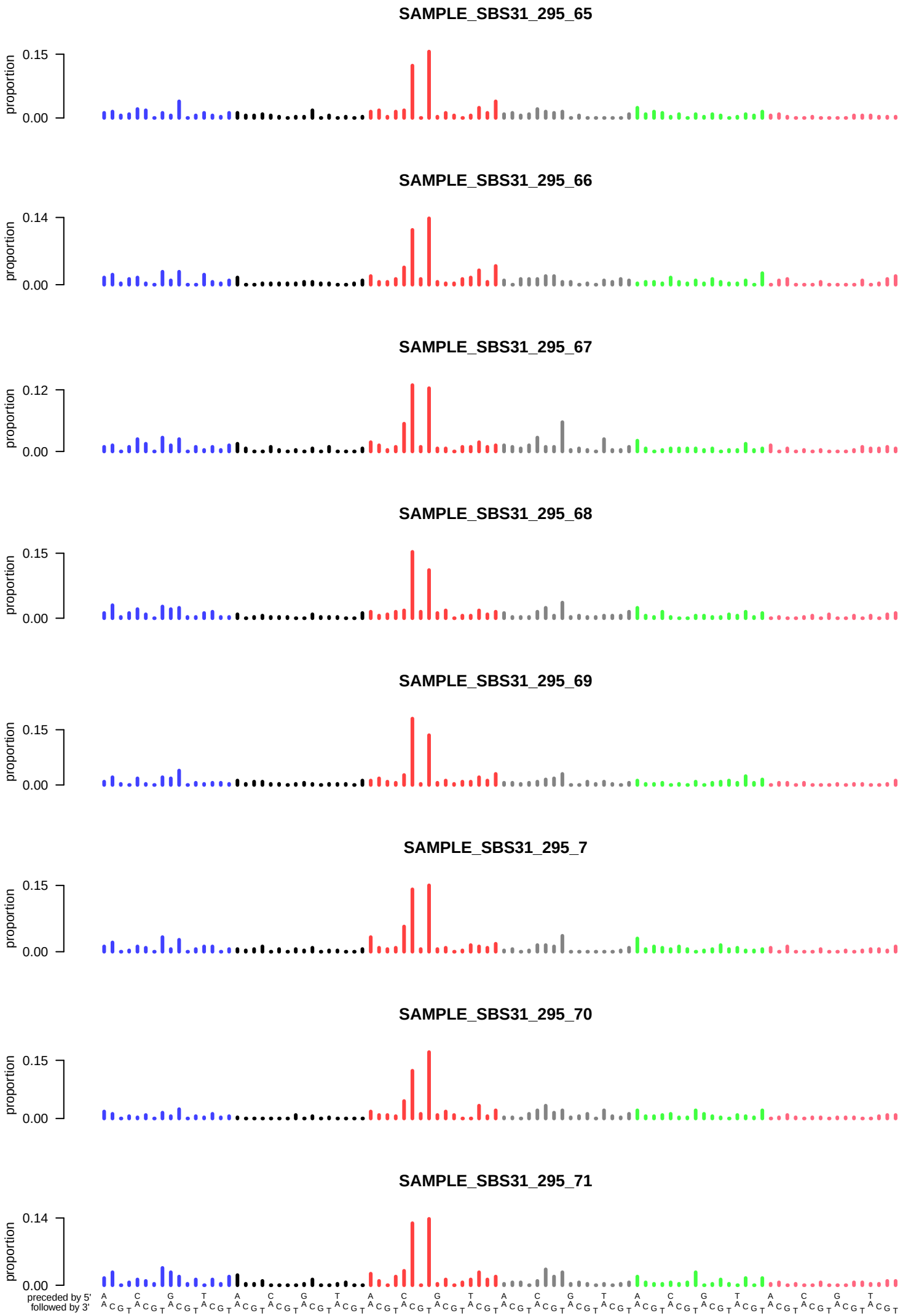
followed by 3'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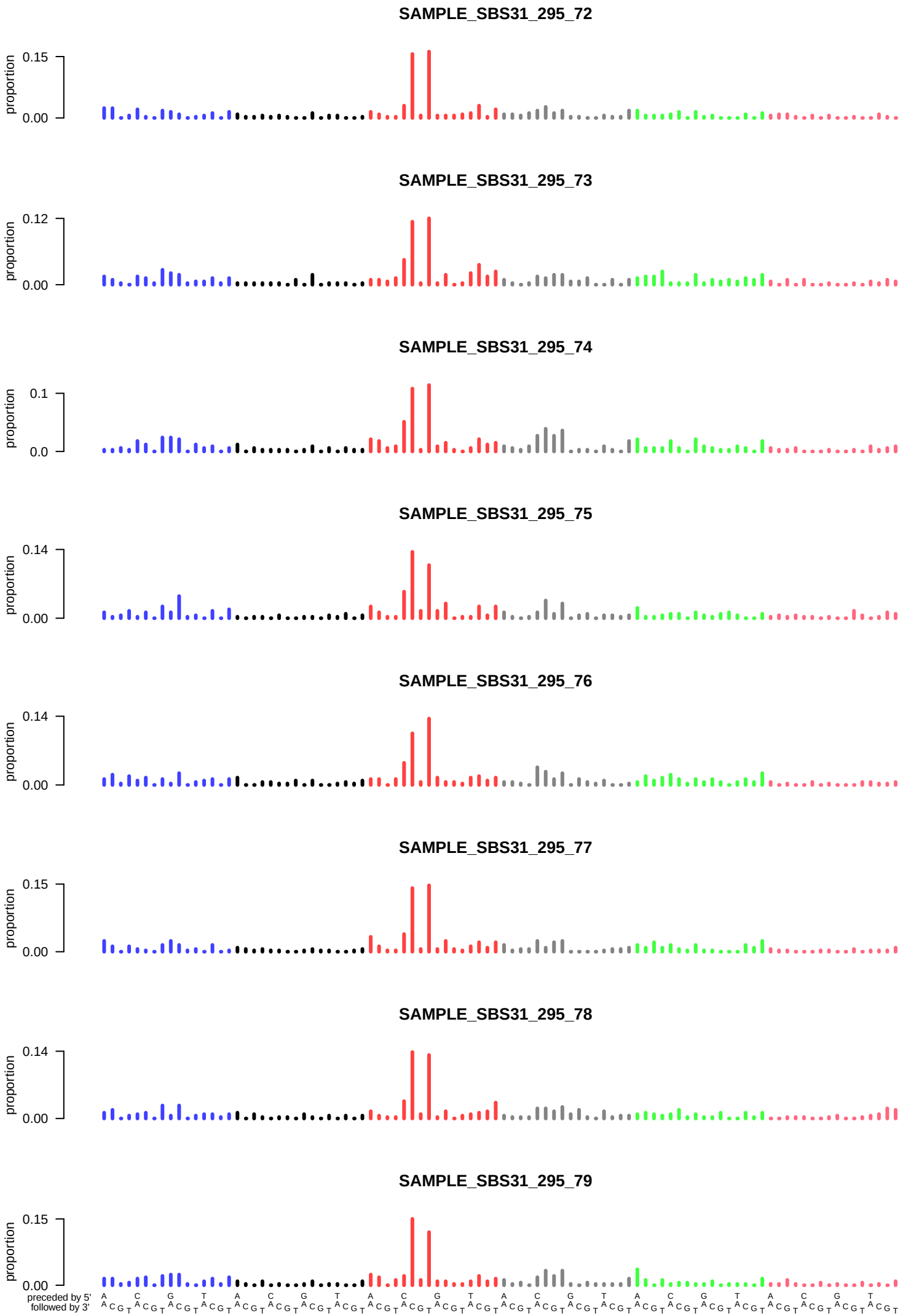
followed by 3'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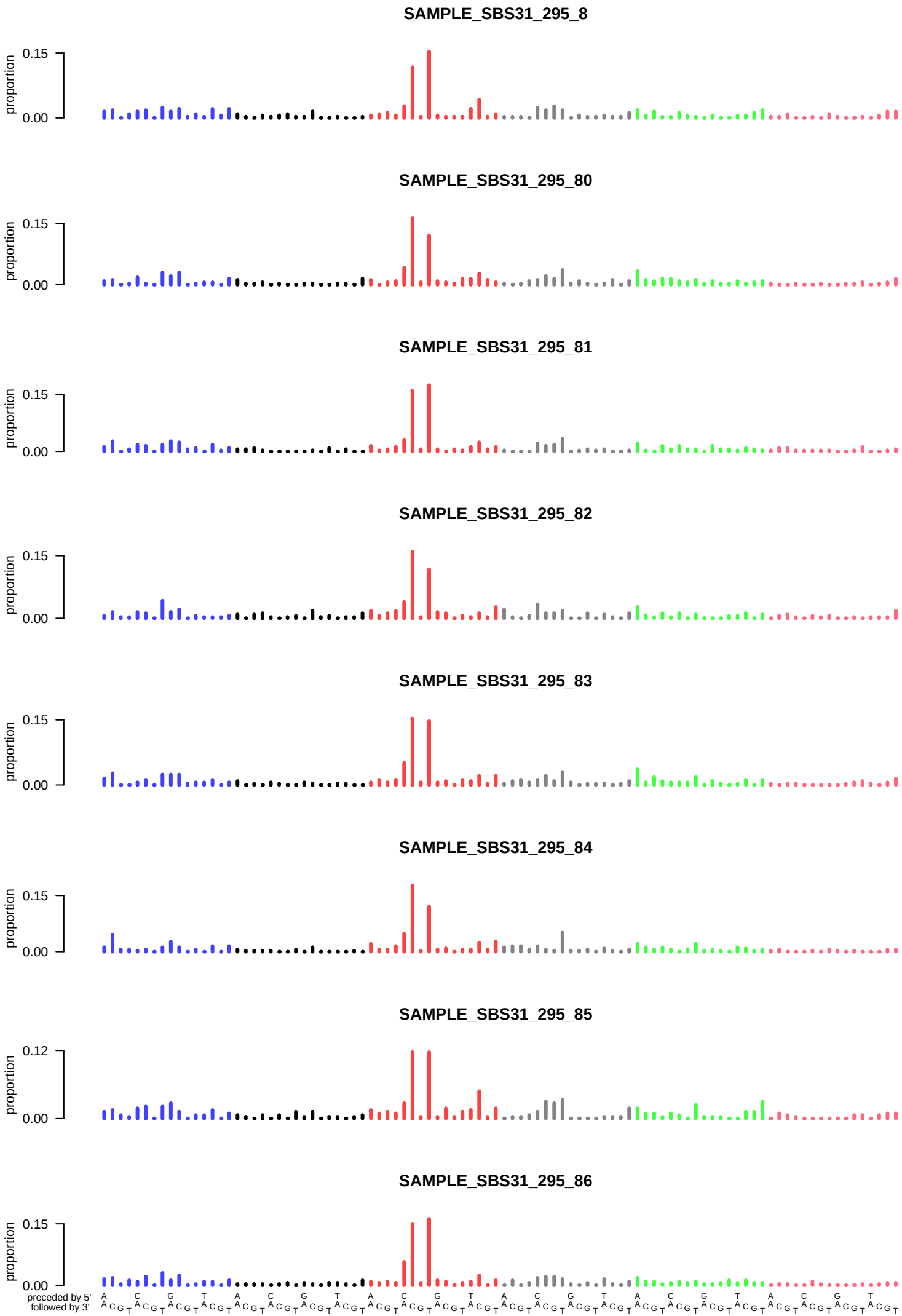
preceded by 5'
followed by 3'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SAMPLE_SBS31_295_82
SAMPLE_SBS31_295_83
SAMPLE_SBS31_295_84
SAMPLE_SBS31_295_85
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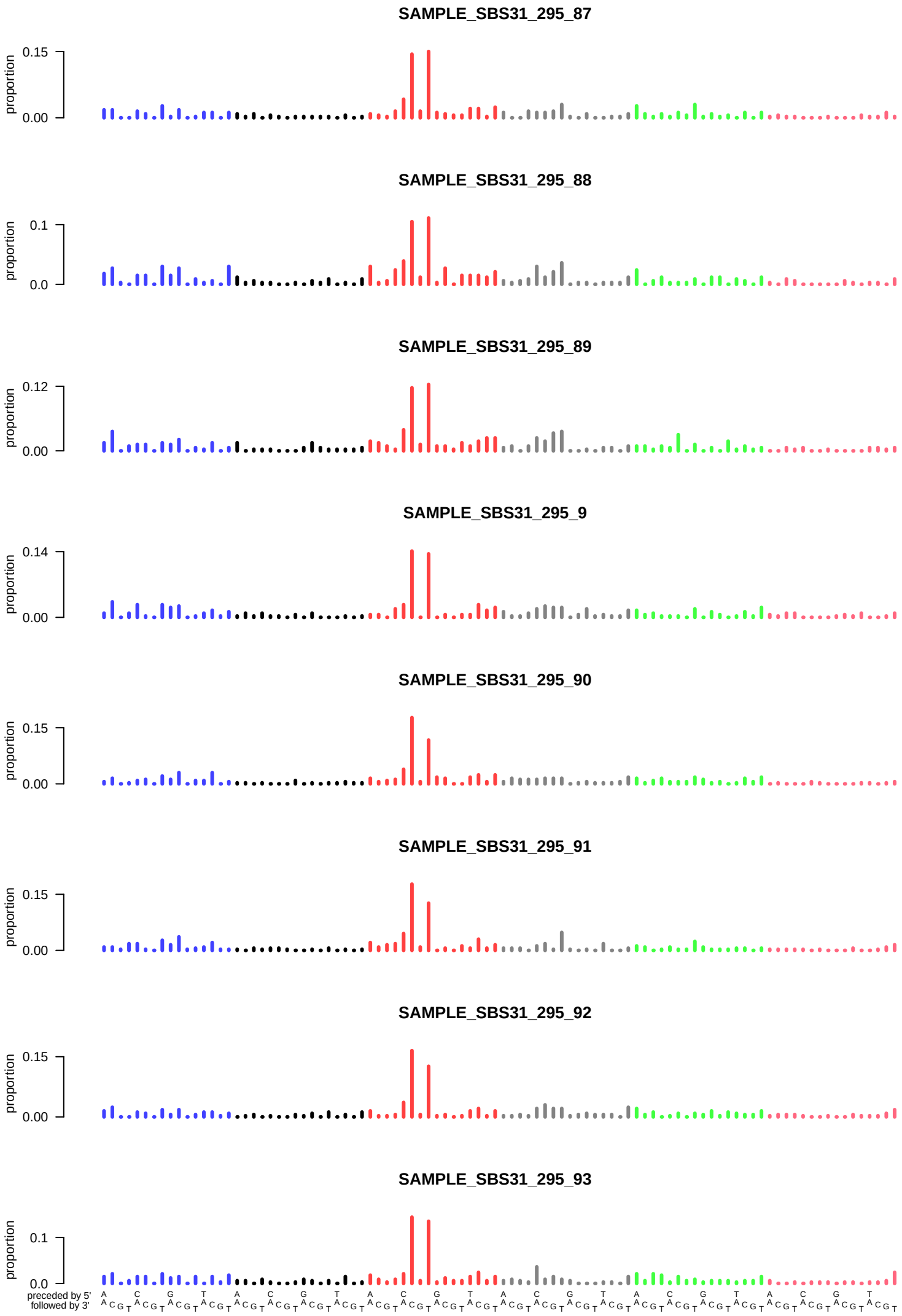
preceded by 5'
followed by 3'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SAMPLE_SBS31_295_91
proportion
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SAMPLE_SBS31_295_92
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SAMPLE_SBS31_295_93
proportion
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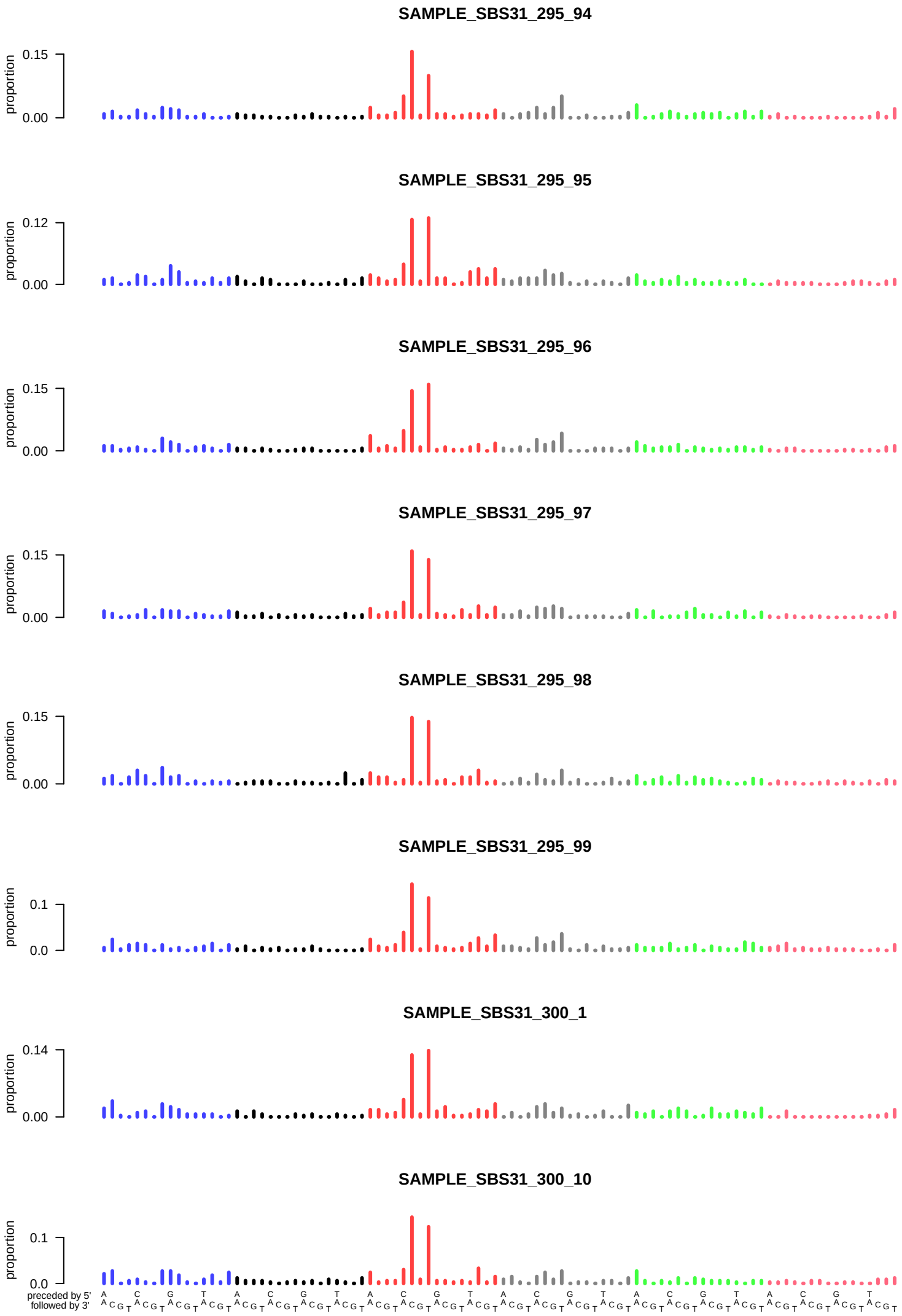
preceded by 5'
followed by 3'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SAMPLE_SBS31_295_97
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SAMPLE_SBS31_295_98
proportion
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proportion
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SAMPLE_SBS31_300_1
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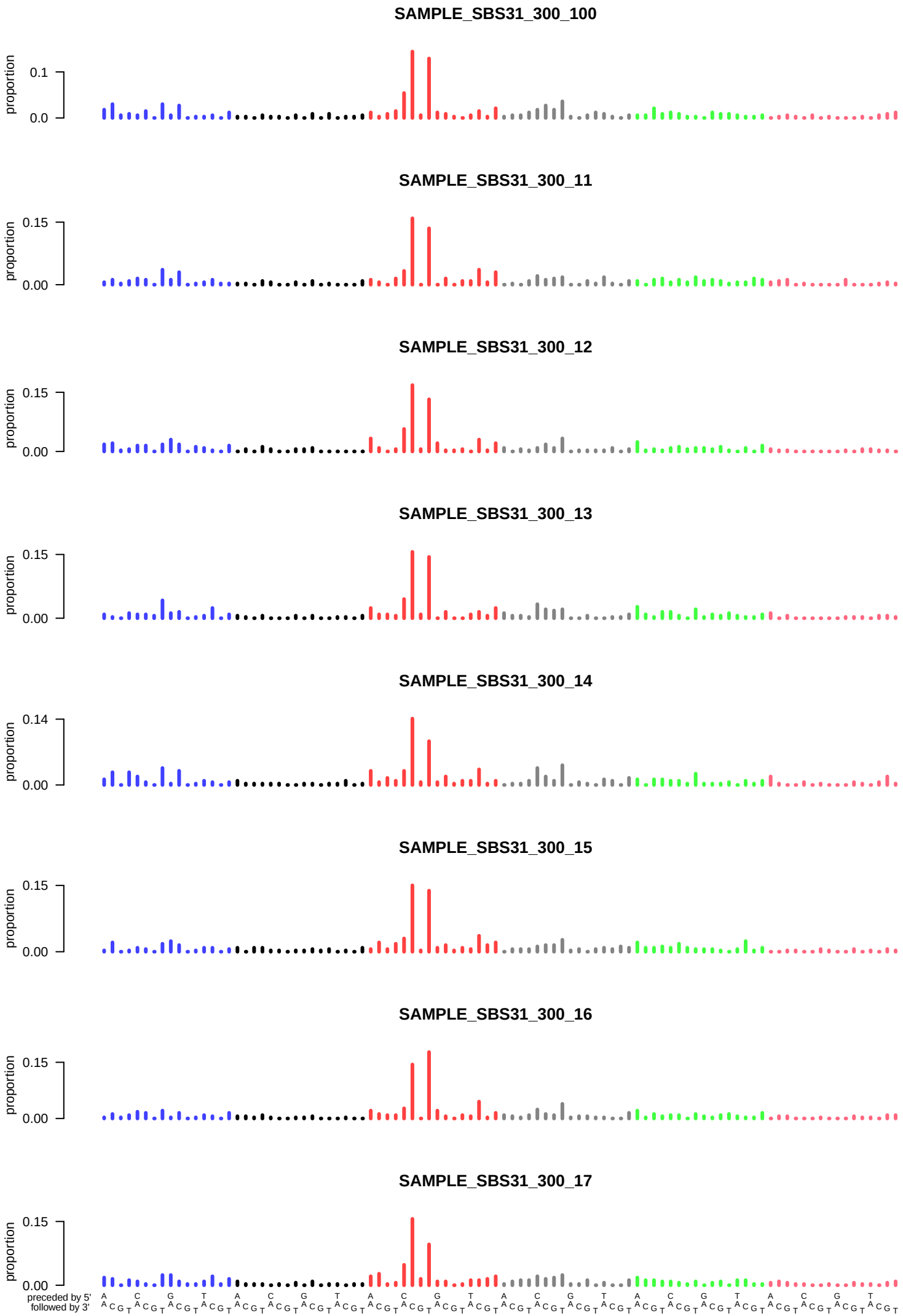
followed by 3'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SAMPLE_SBS31_300_12
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SAMPLE_SBS31_300_16
proportion
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SAMPLE_SBS31_300_17
proportion
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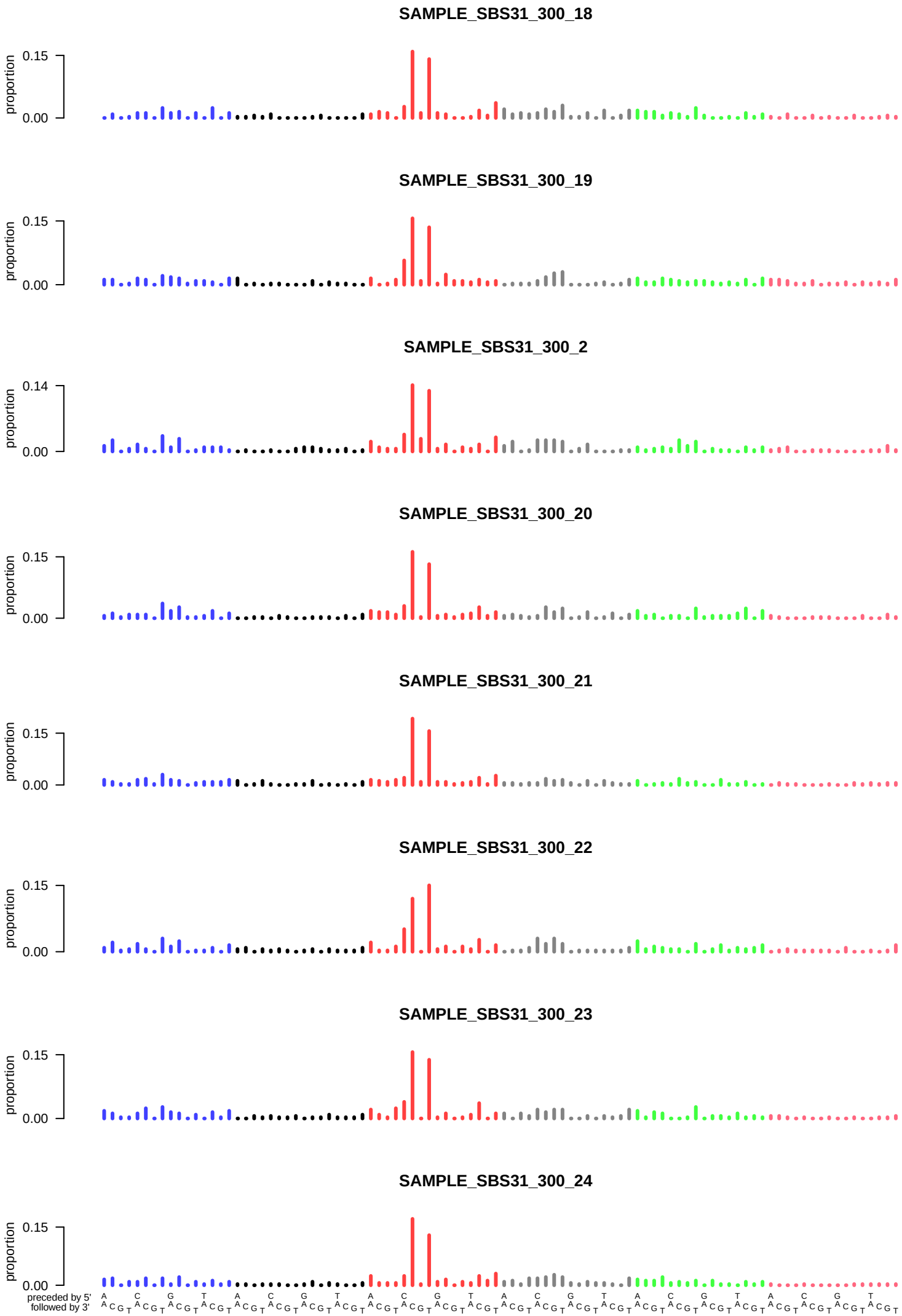
0.00
preceded by 5'
followed by 3'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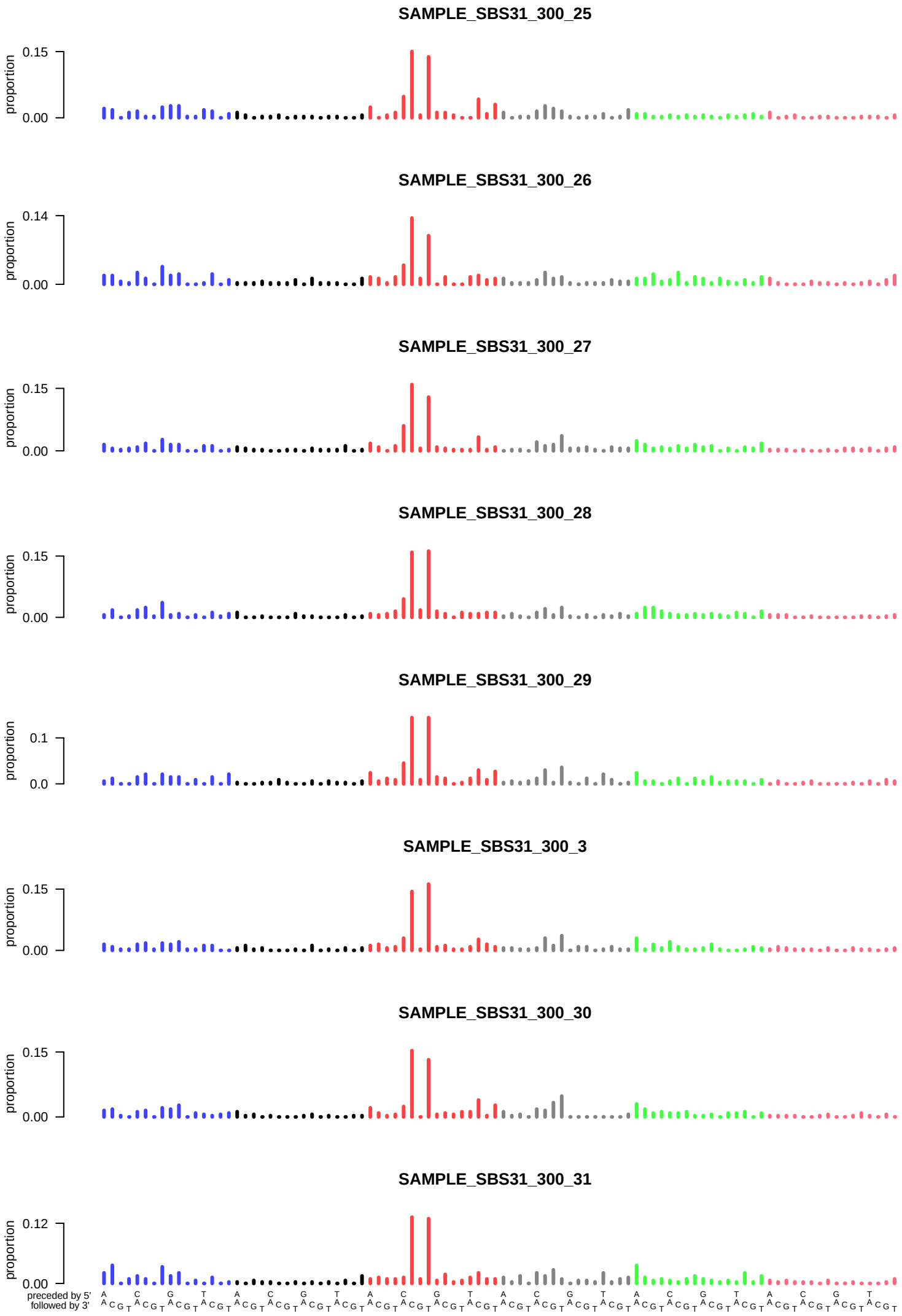
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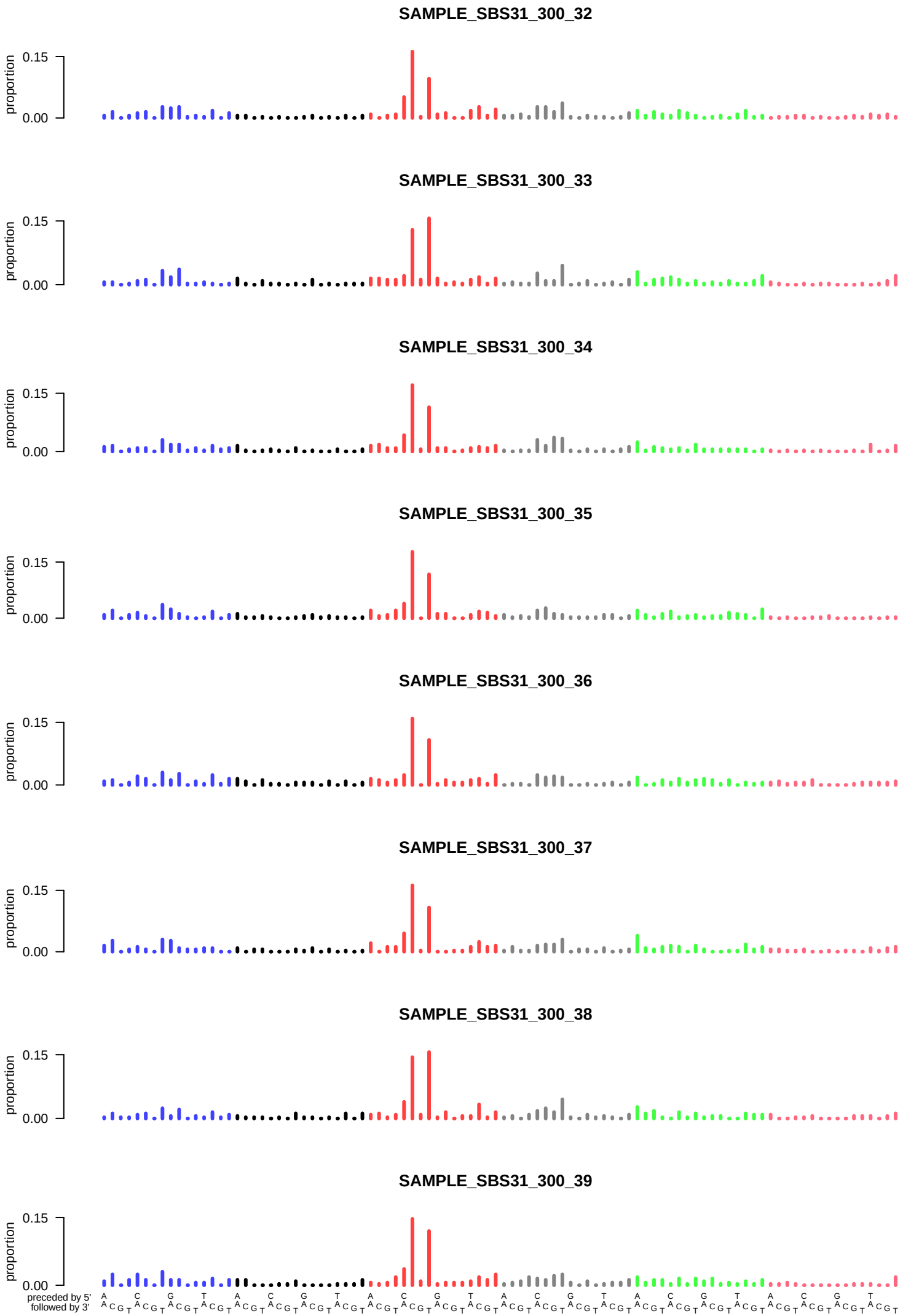
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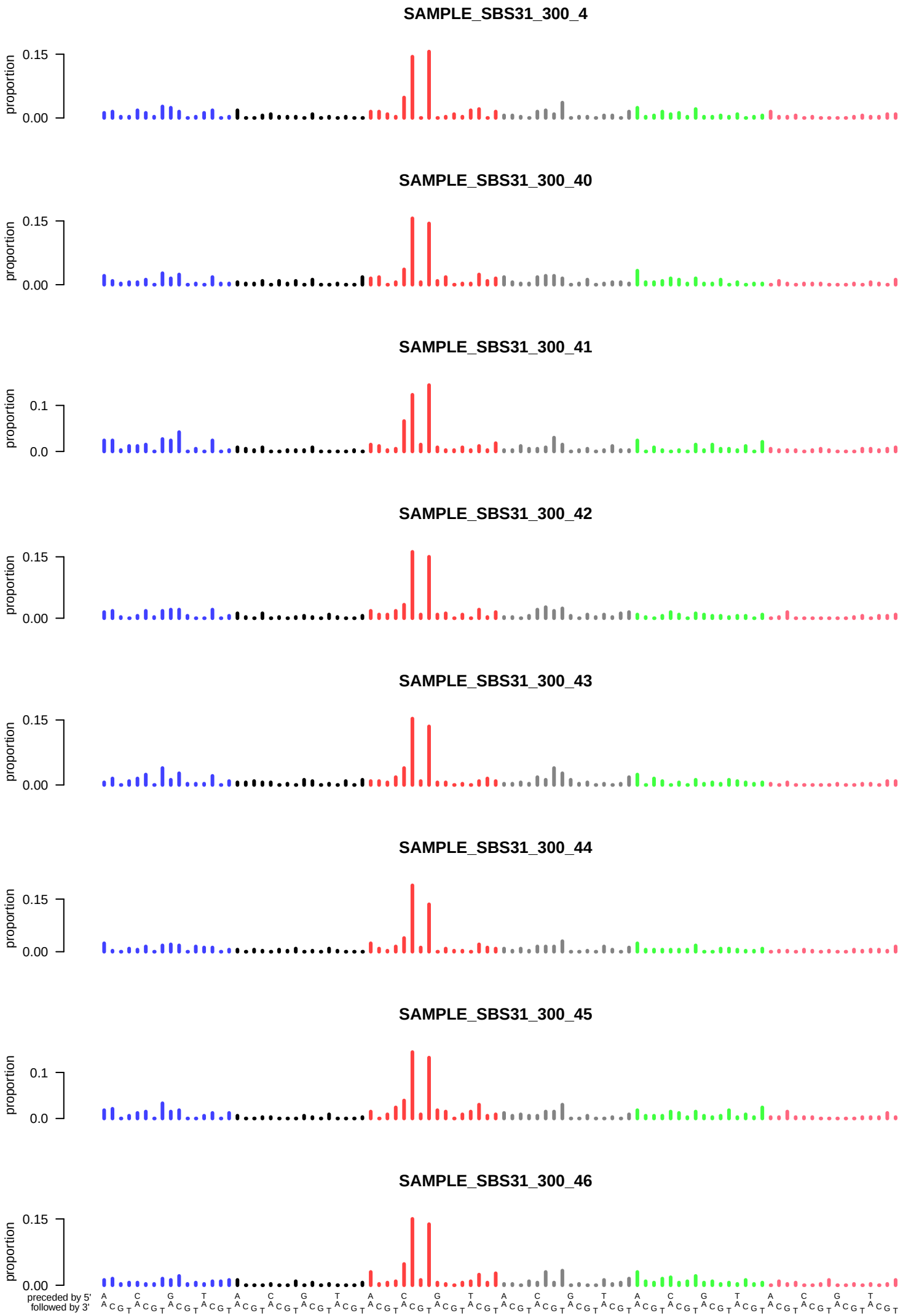
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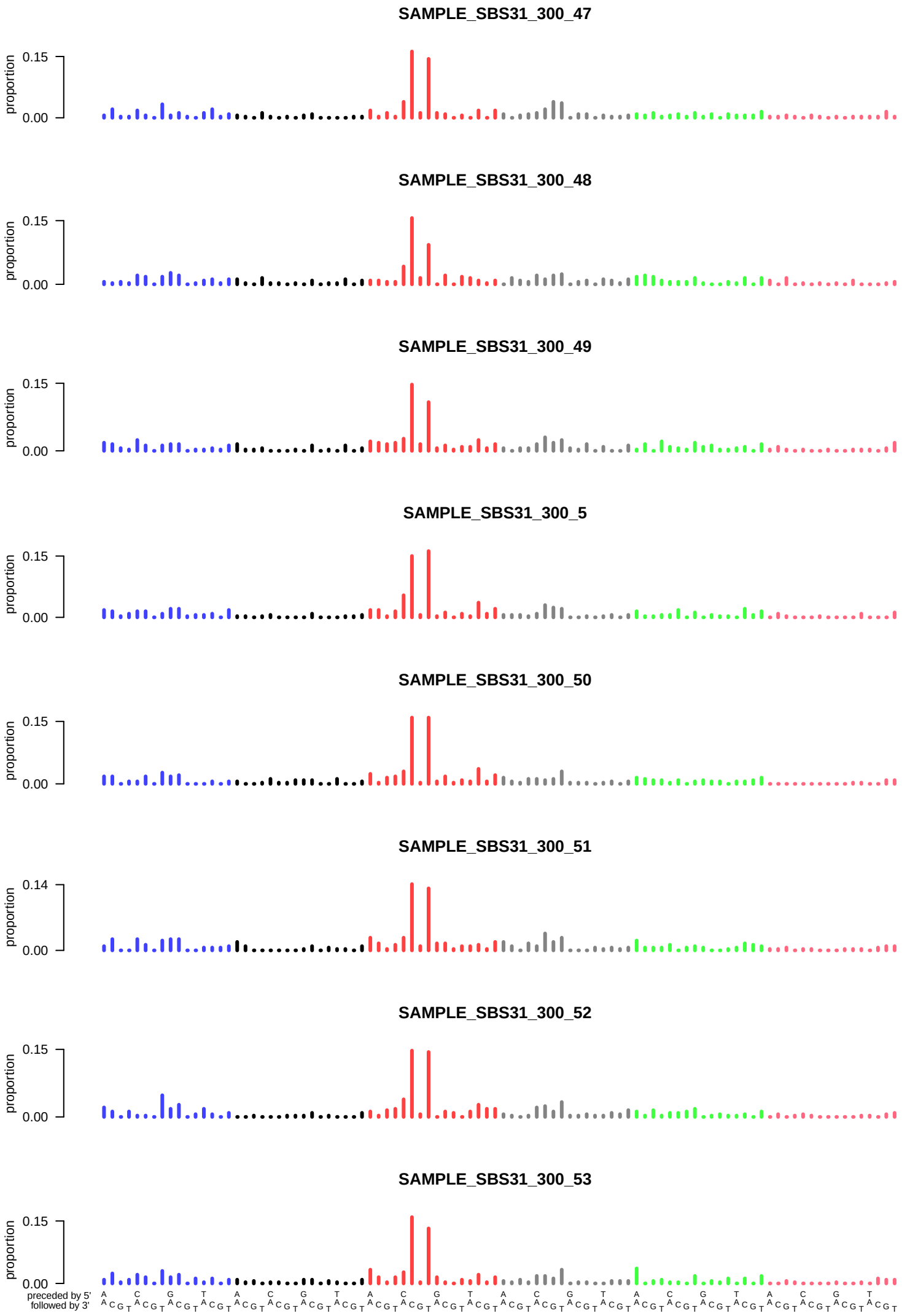
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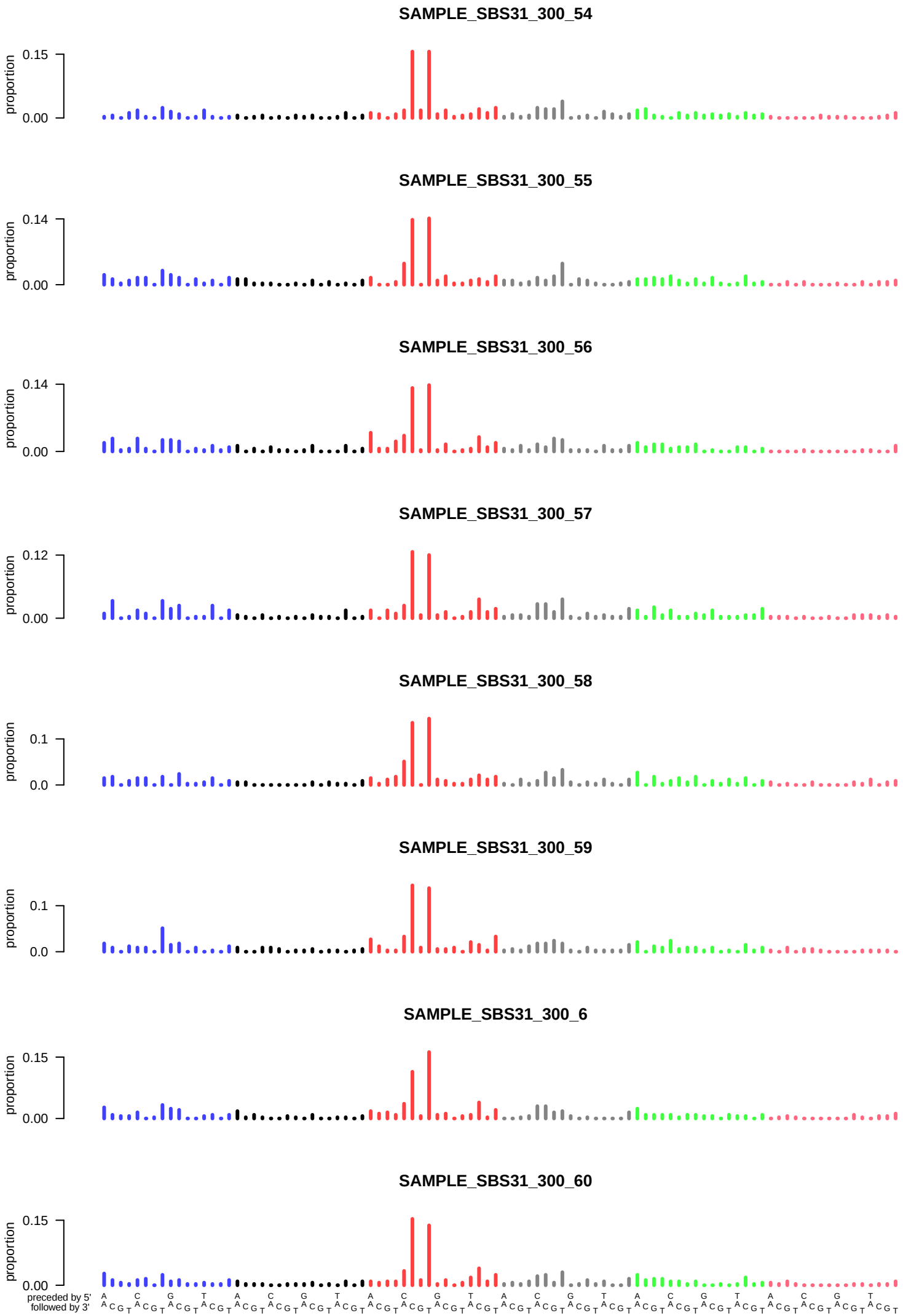
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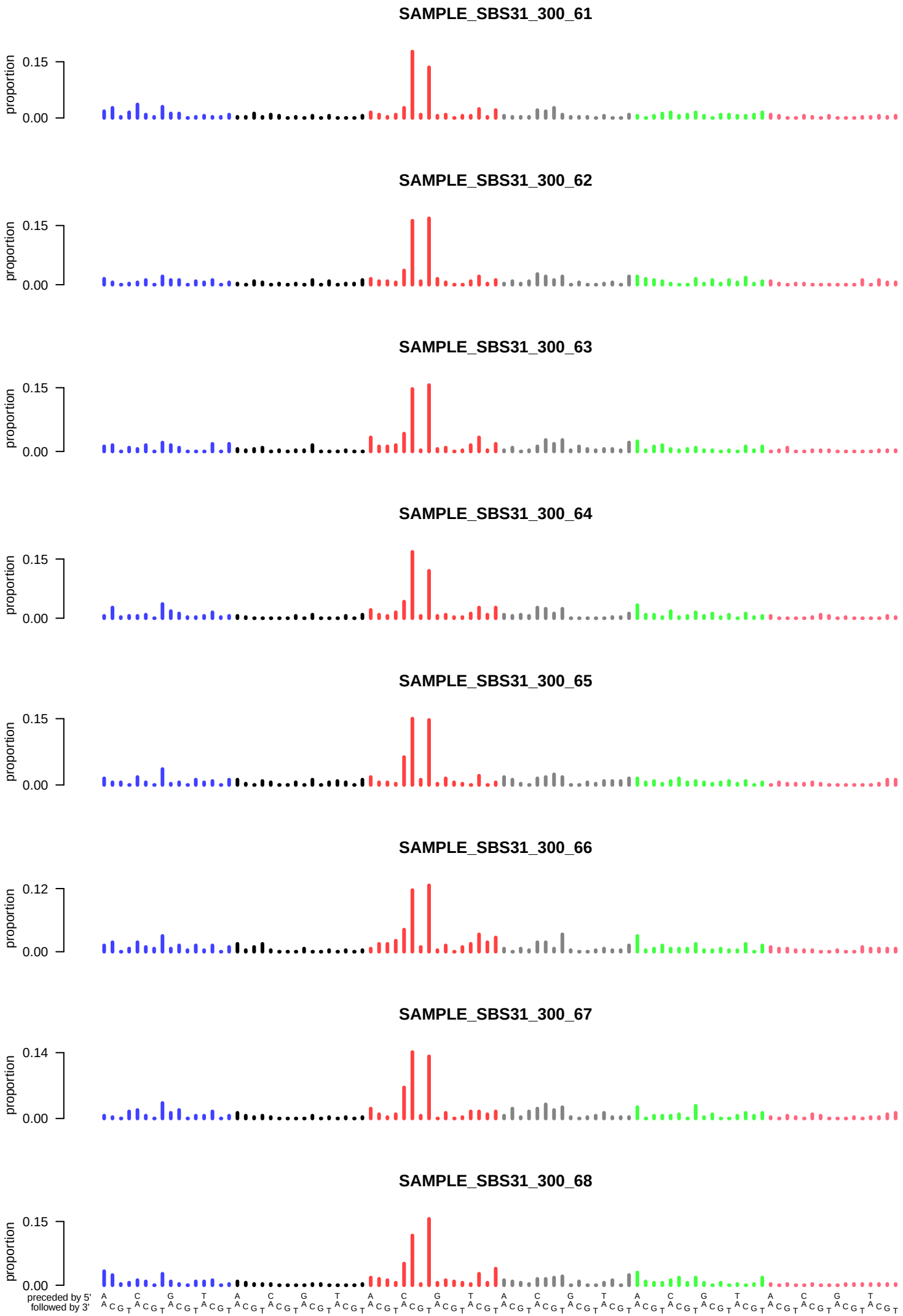
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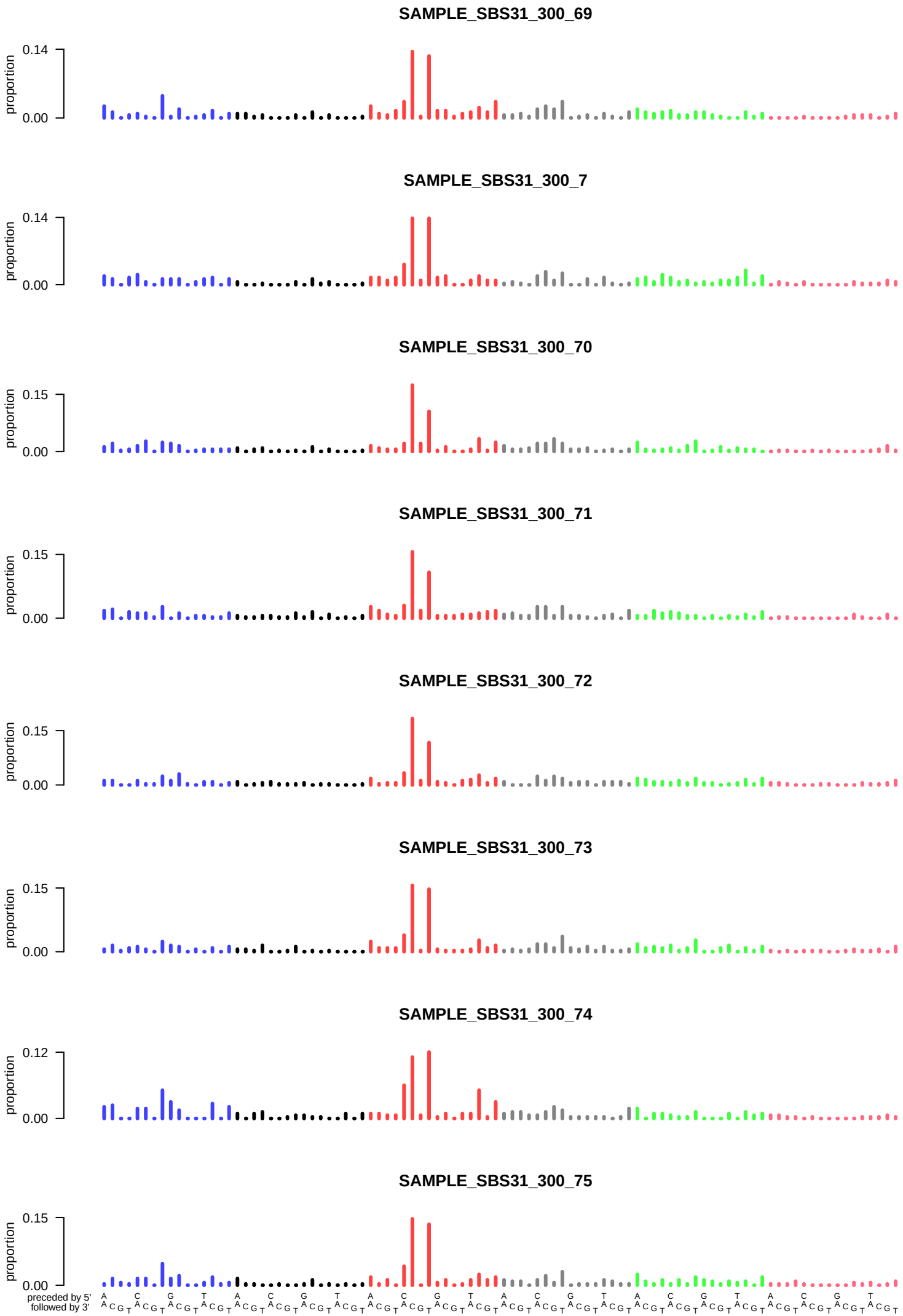
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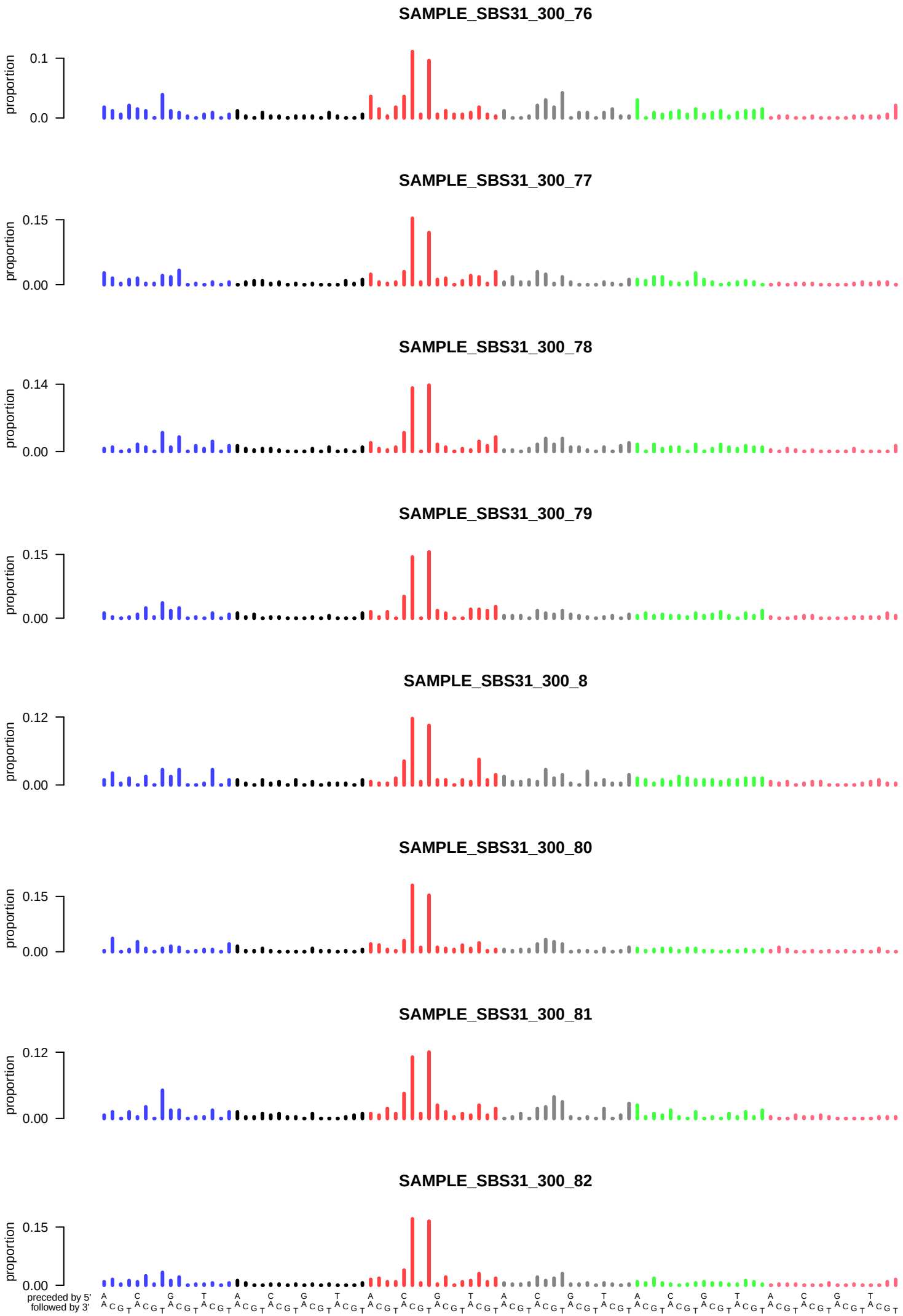
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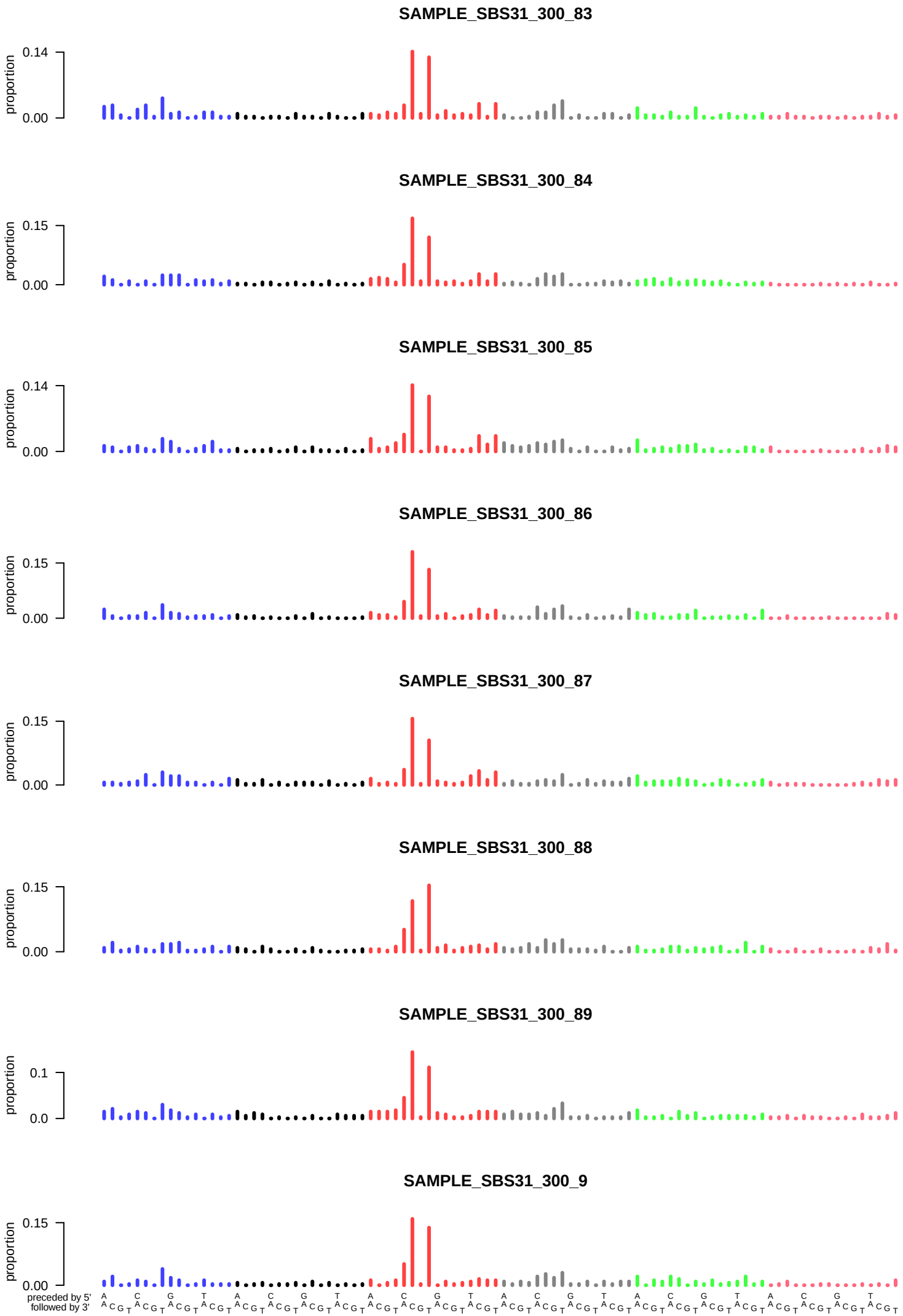
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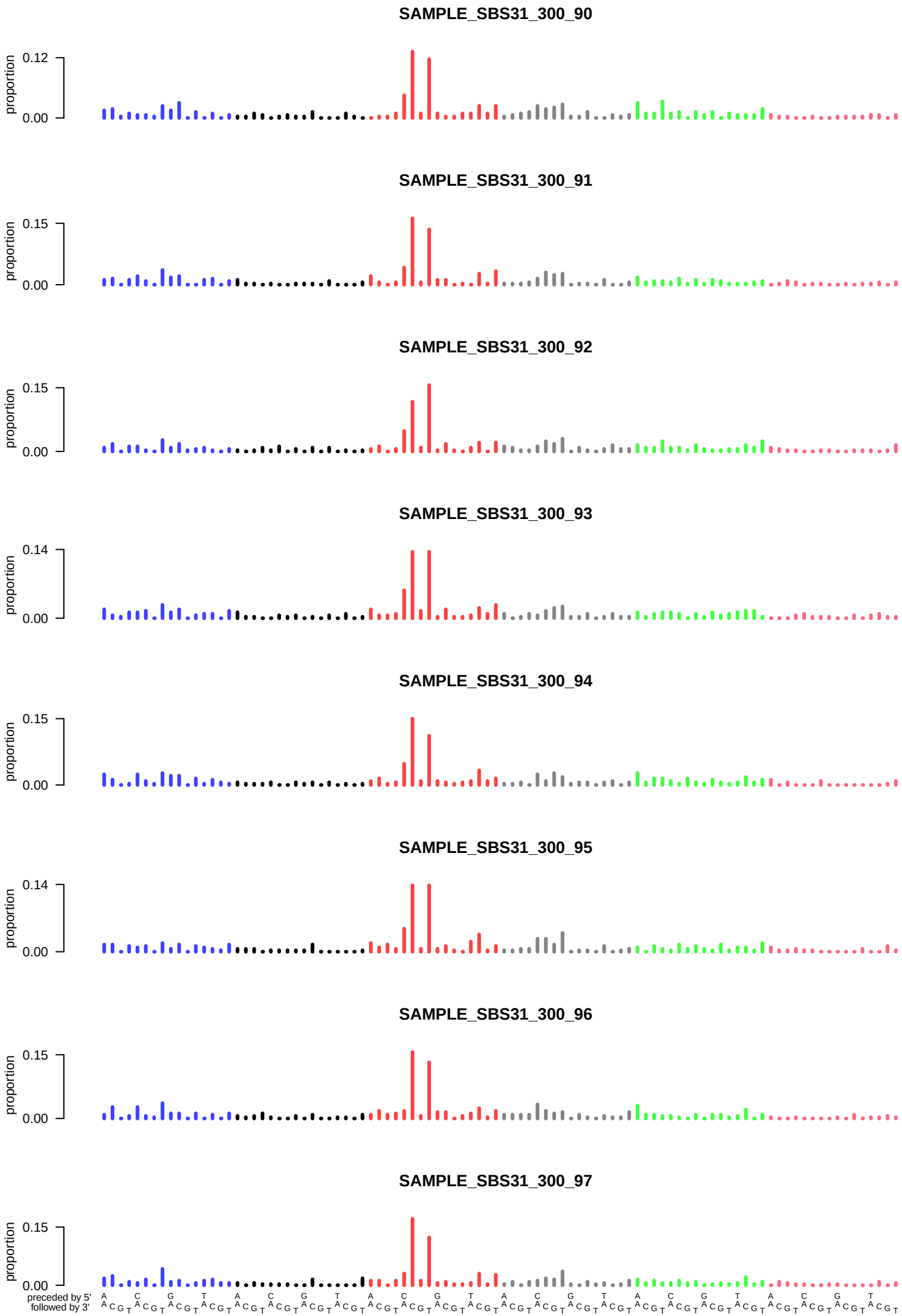
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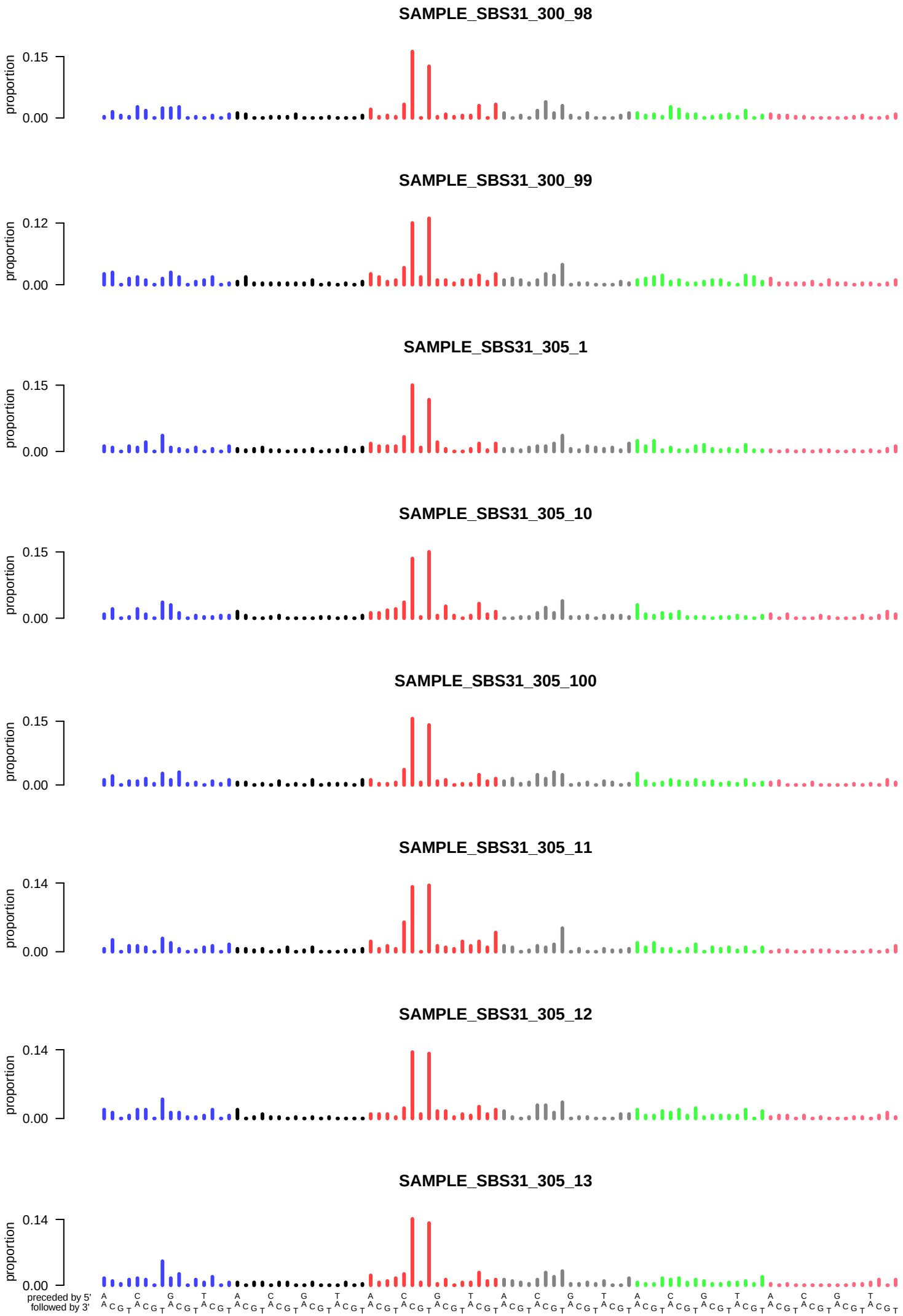
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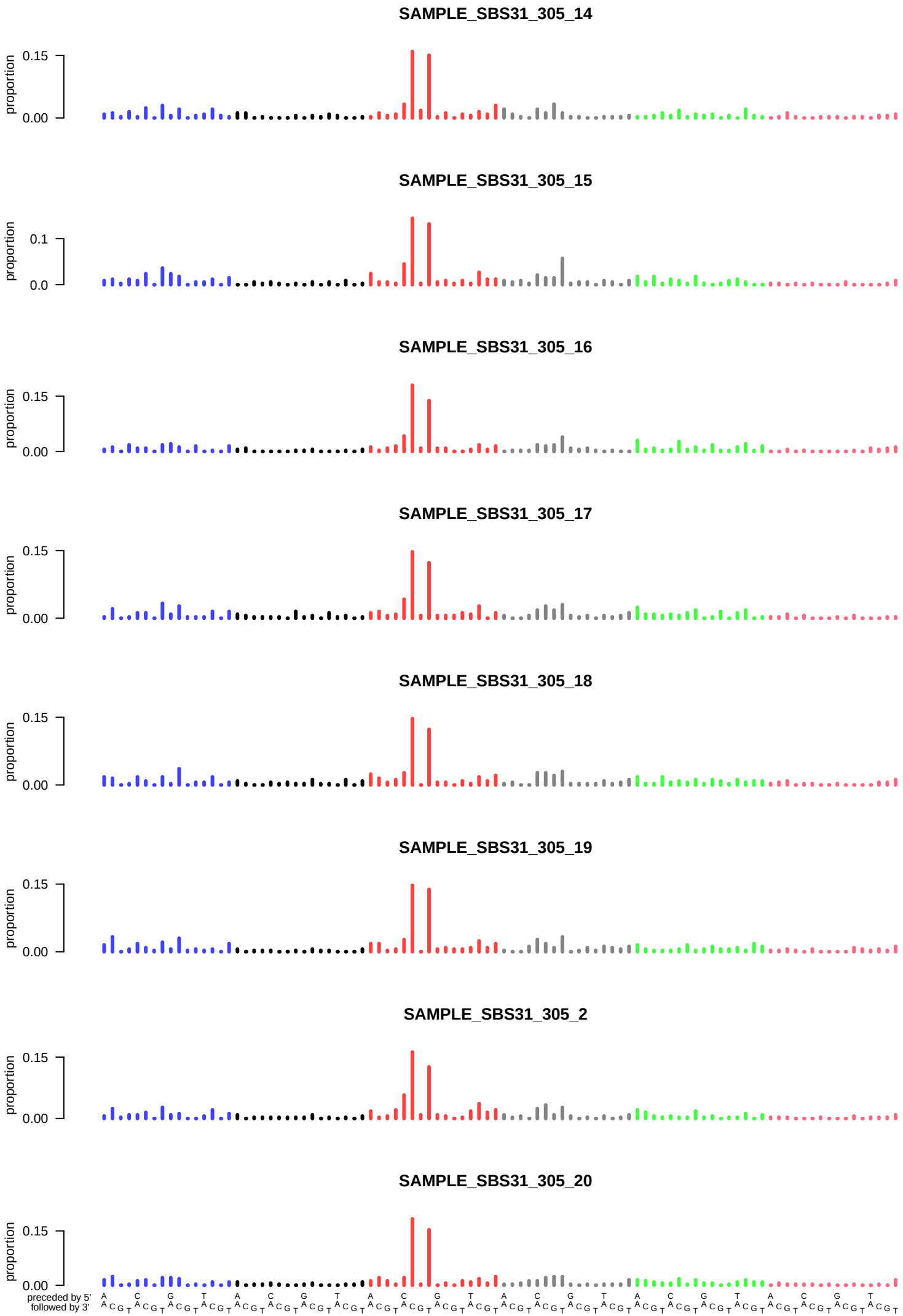
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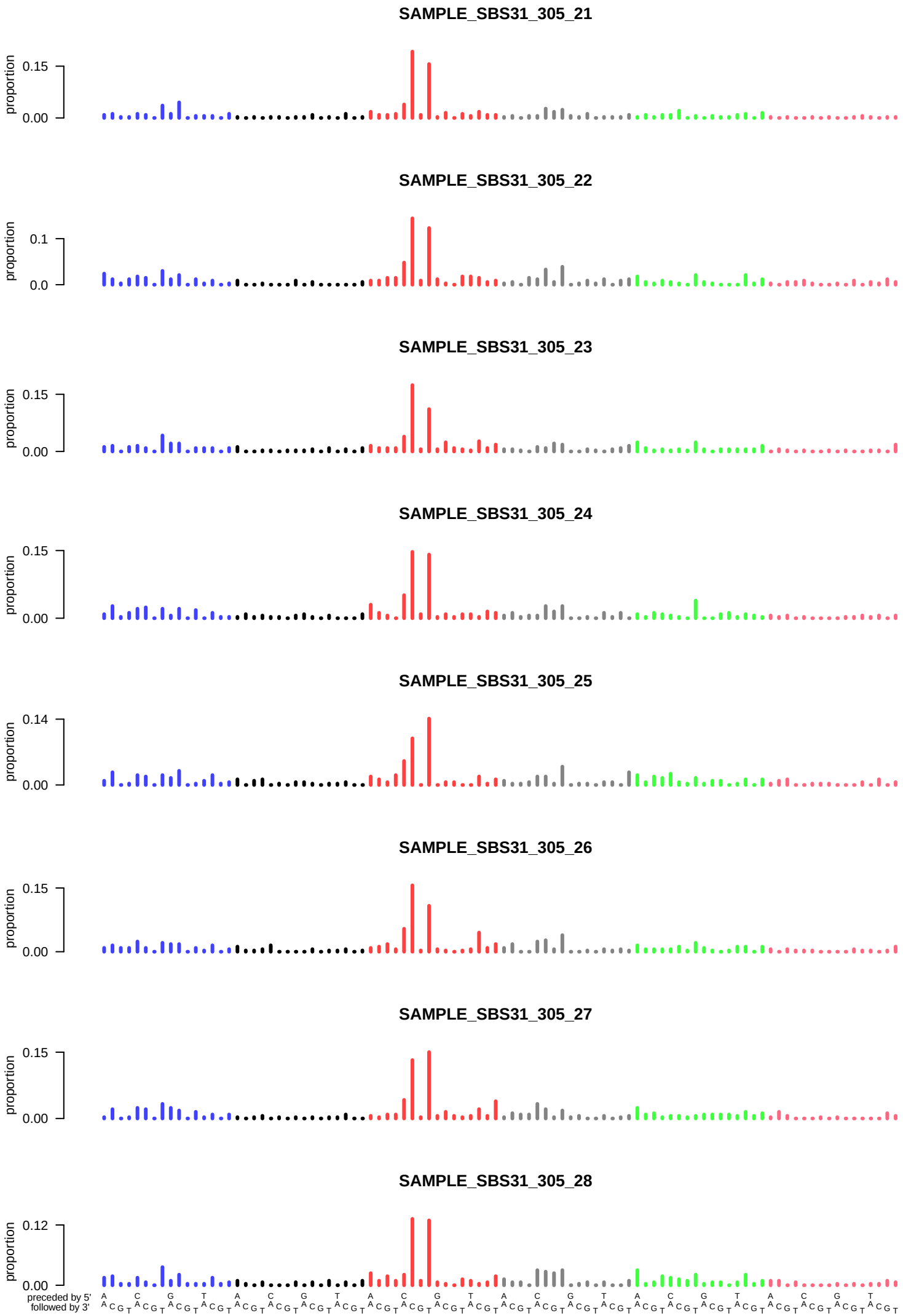
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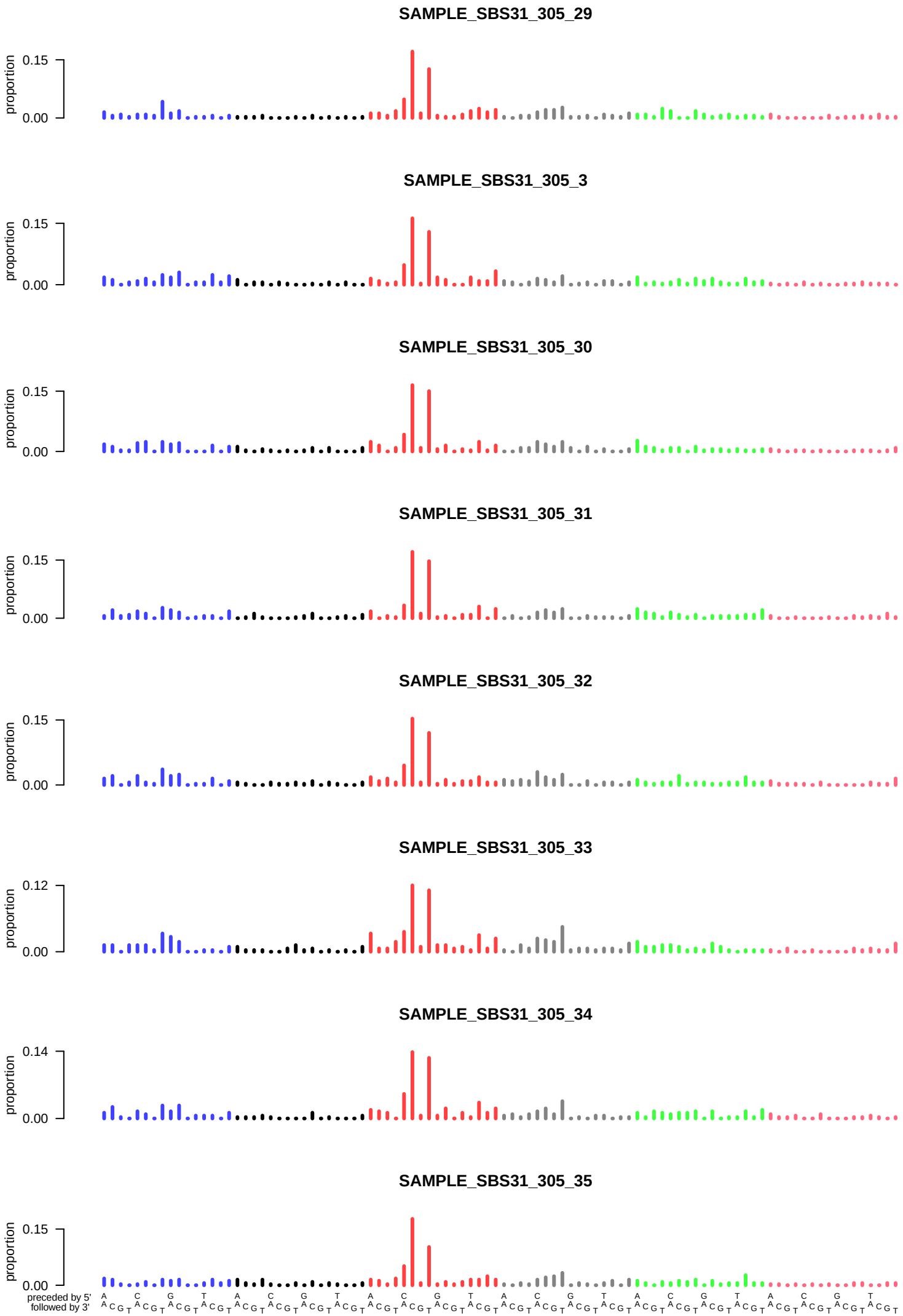
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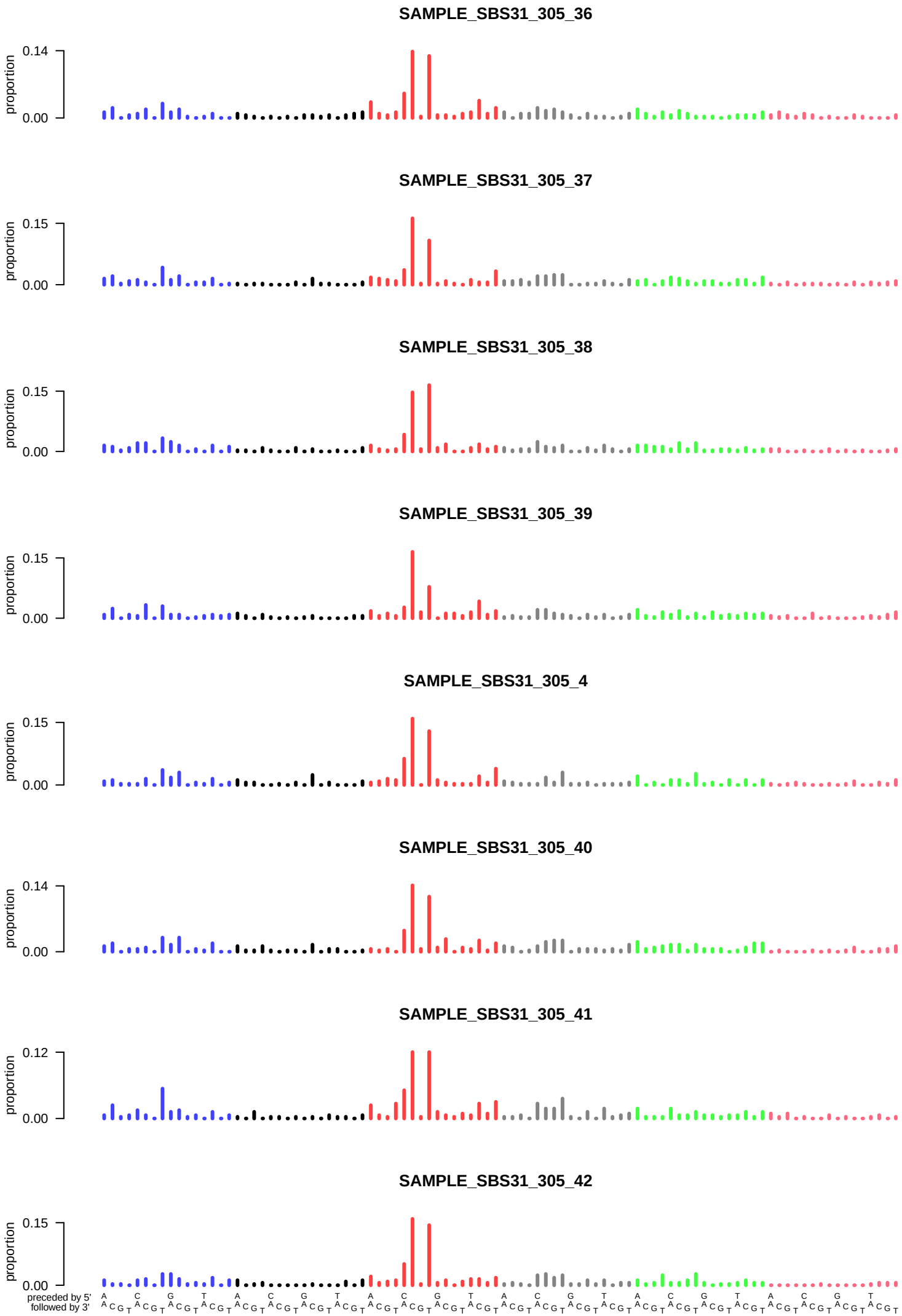
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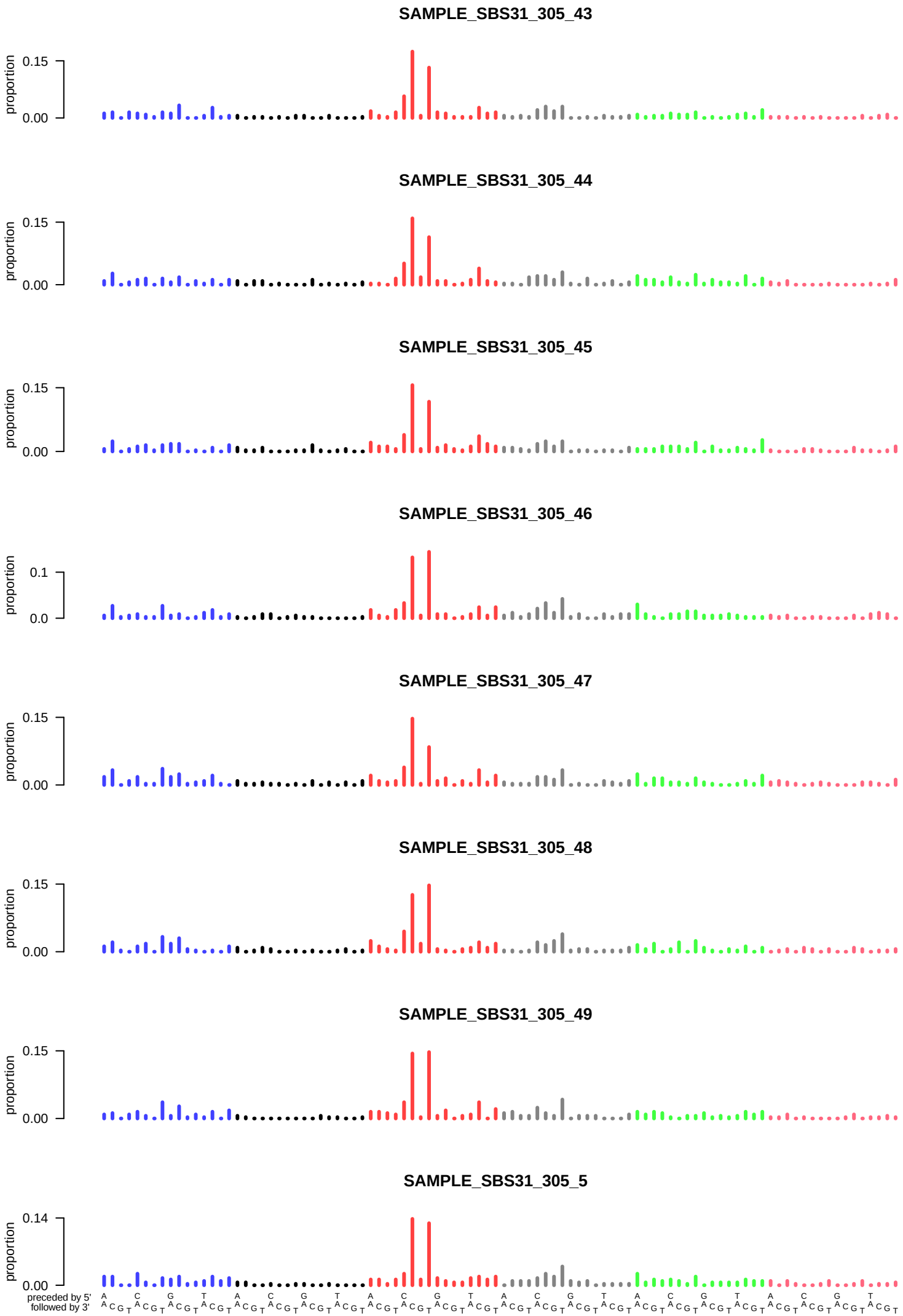
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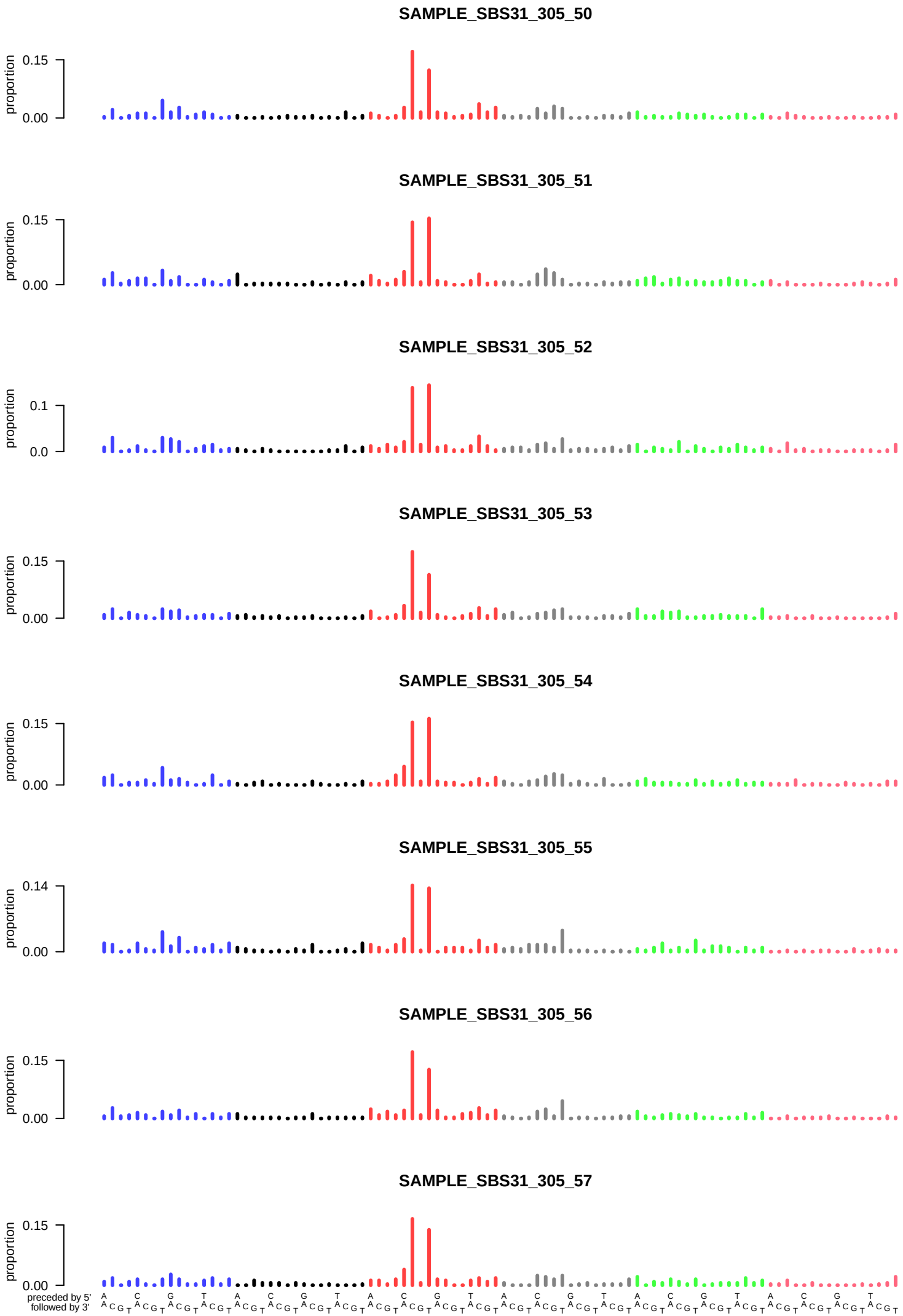
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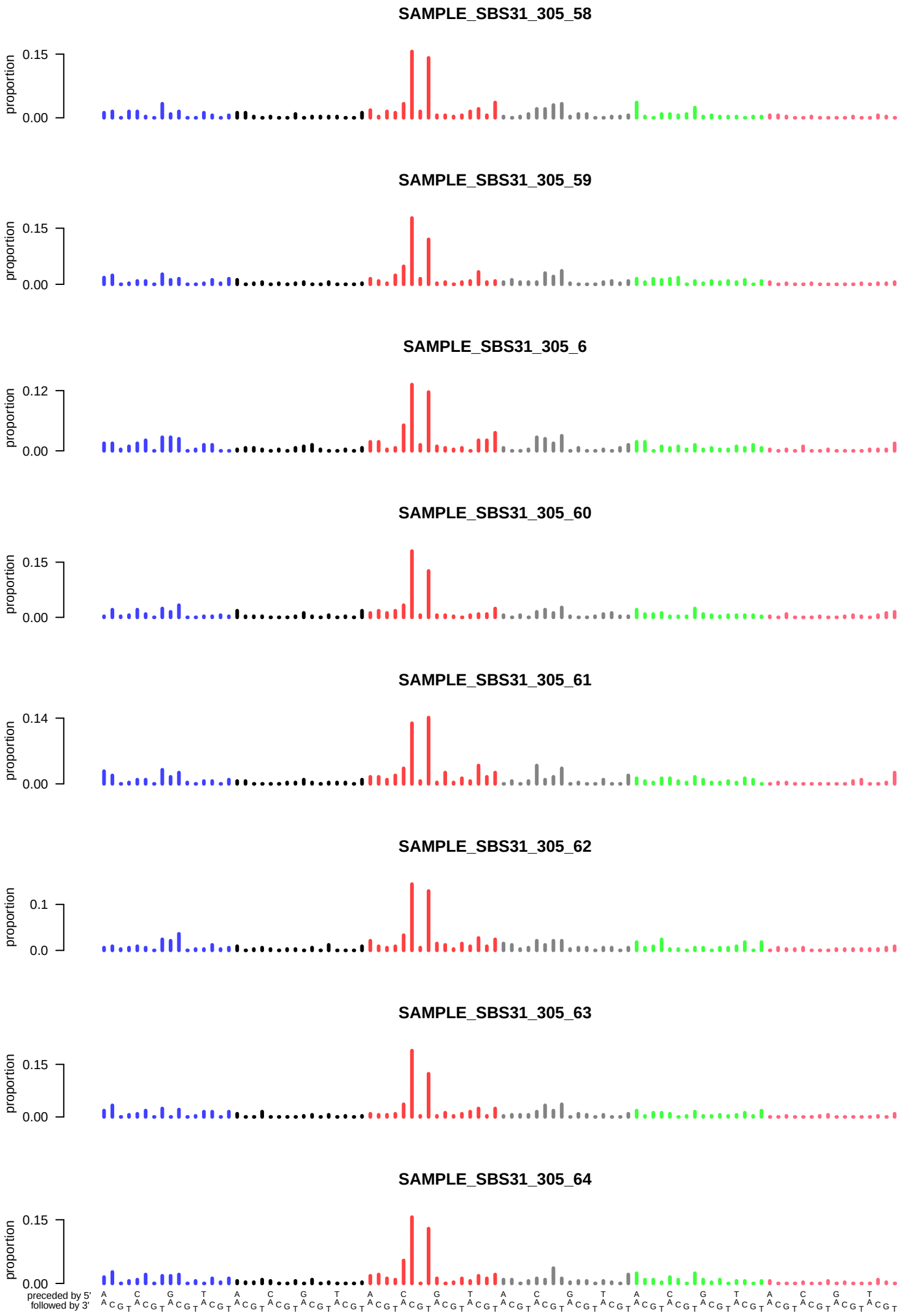
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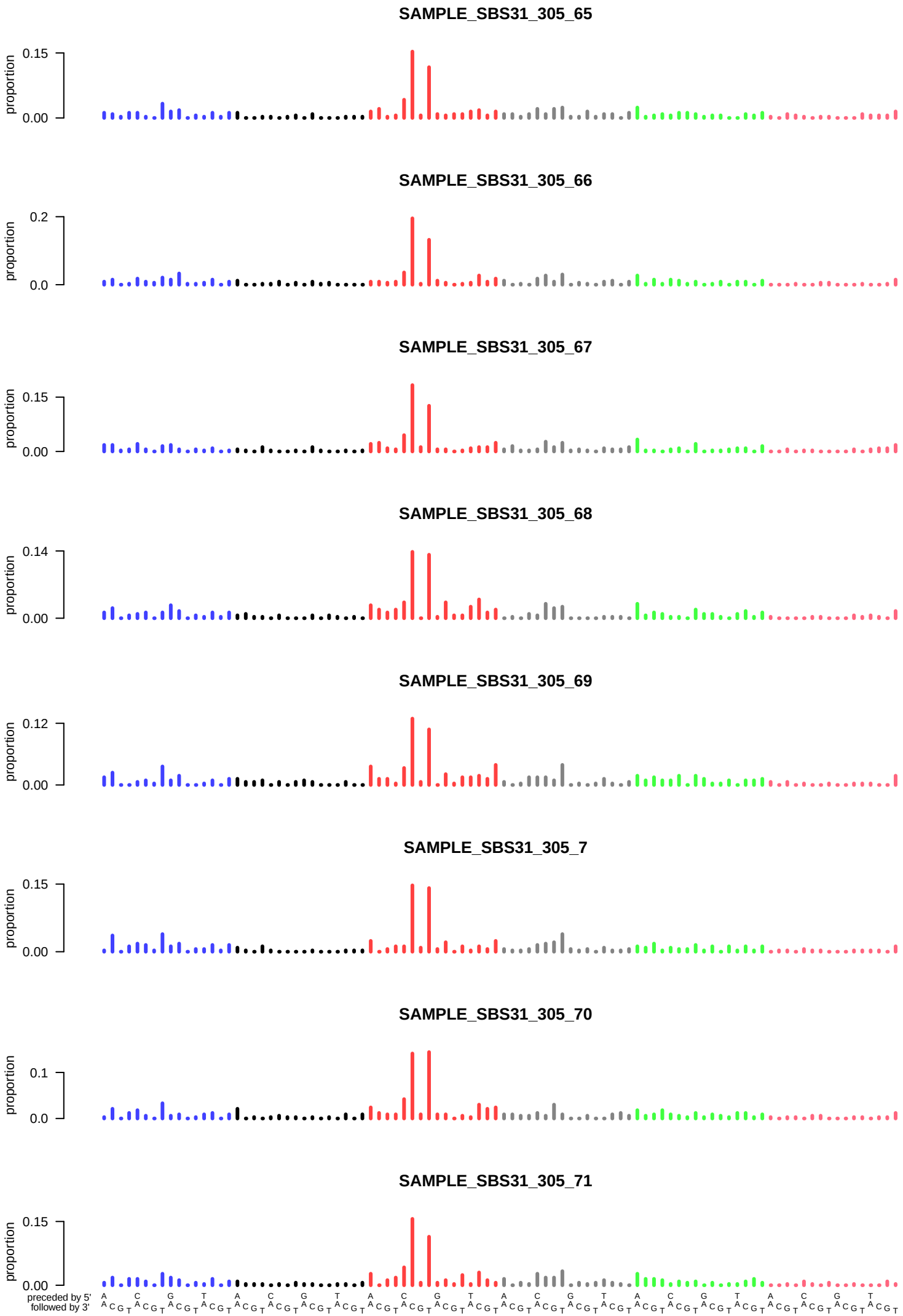
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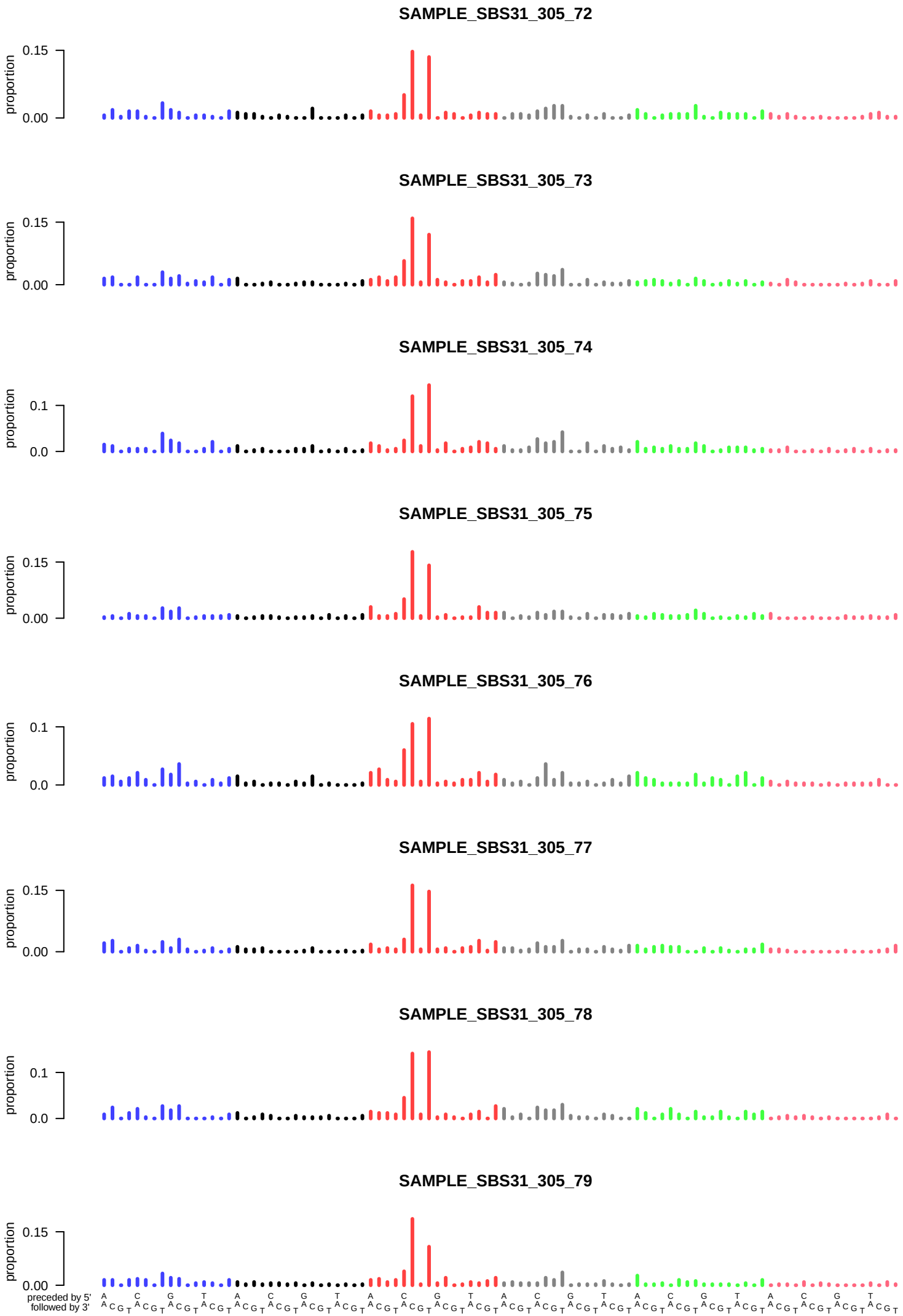
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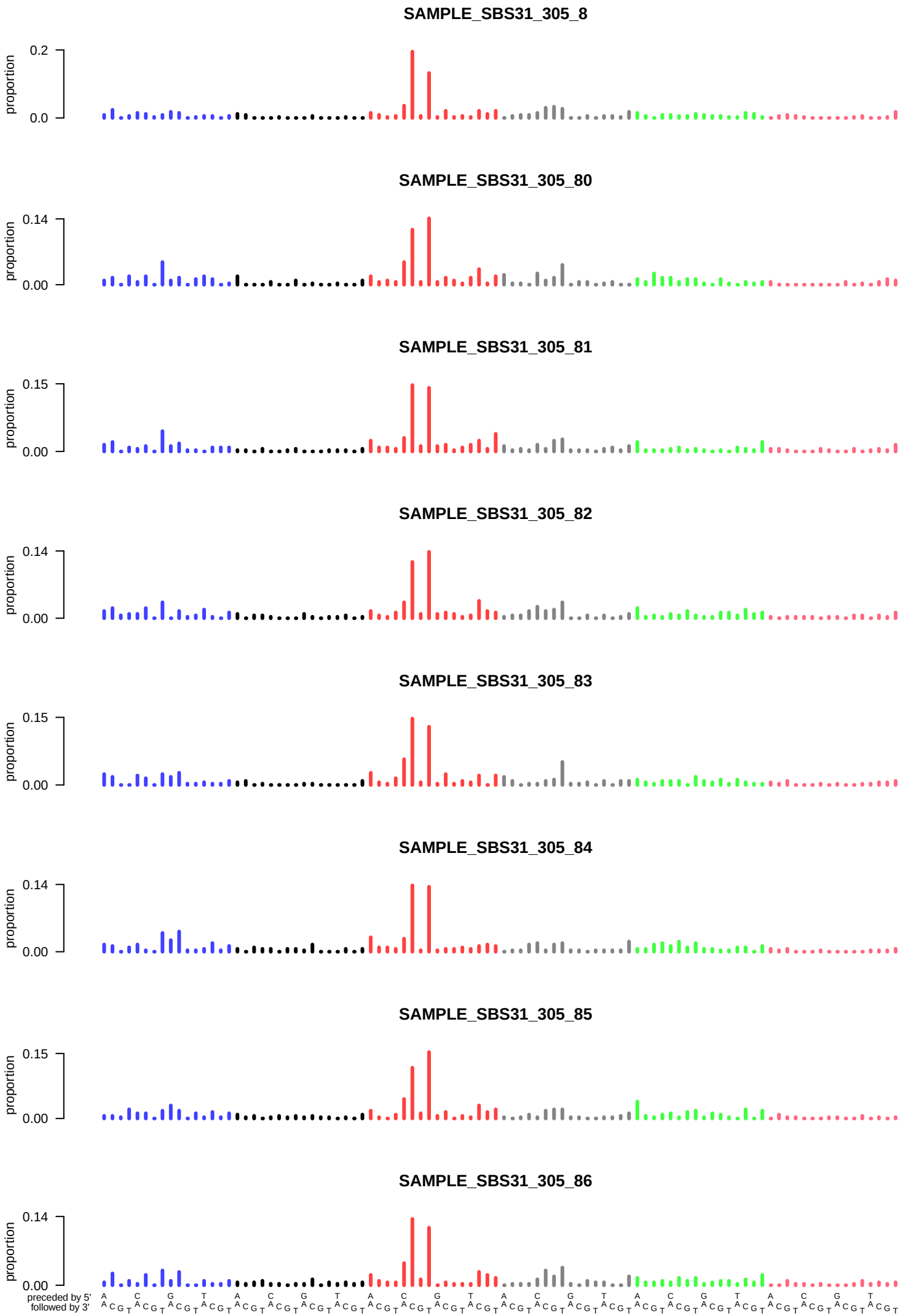
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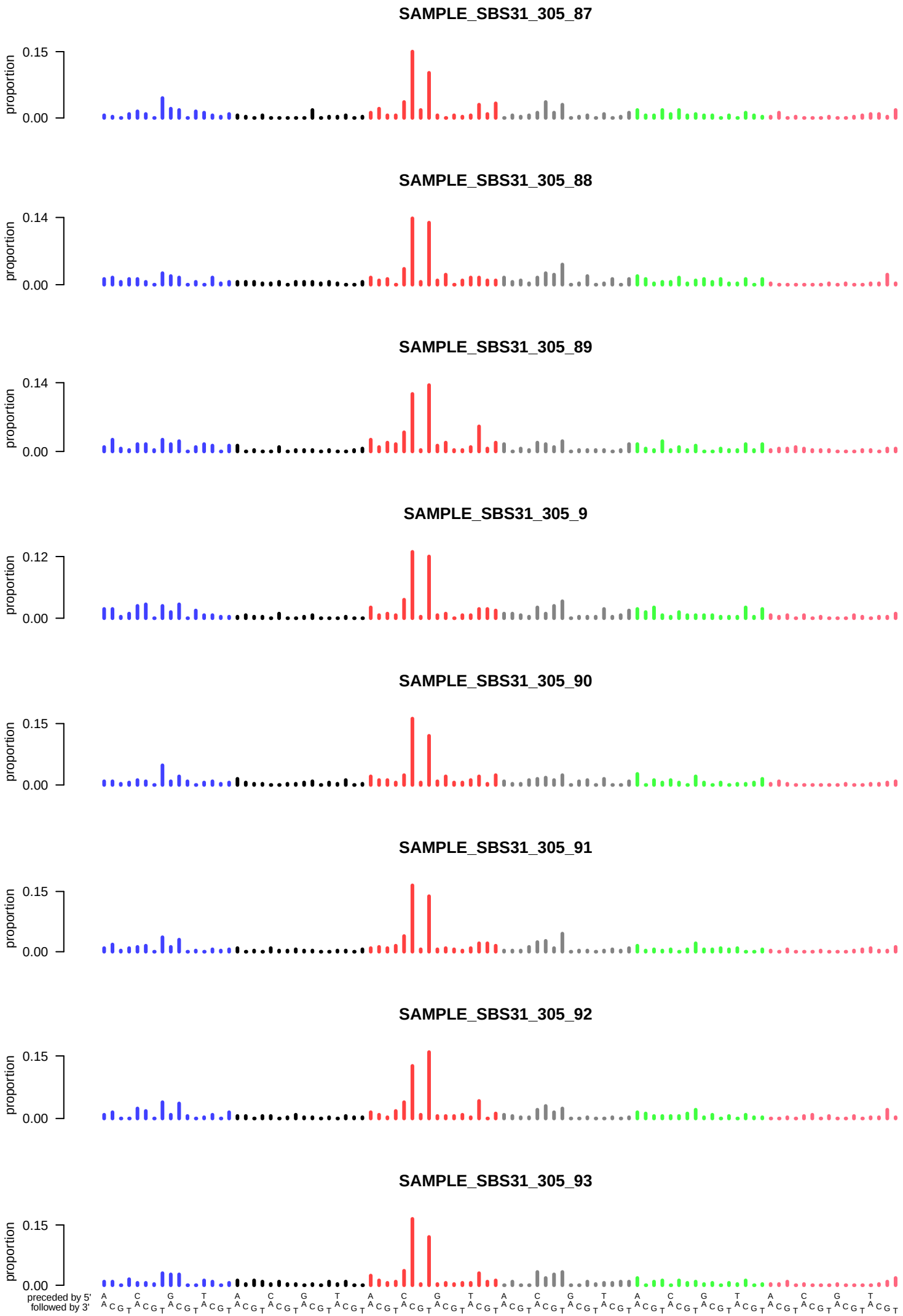
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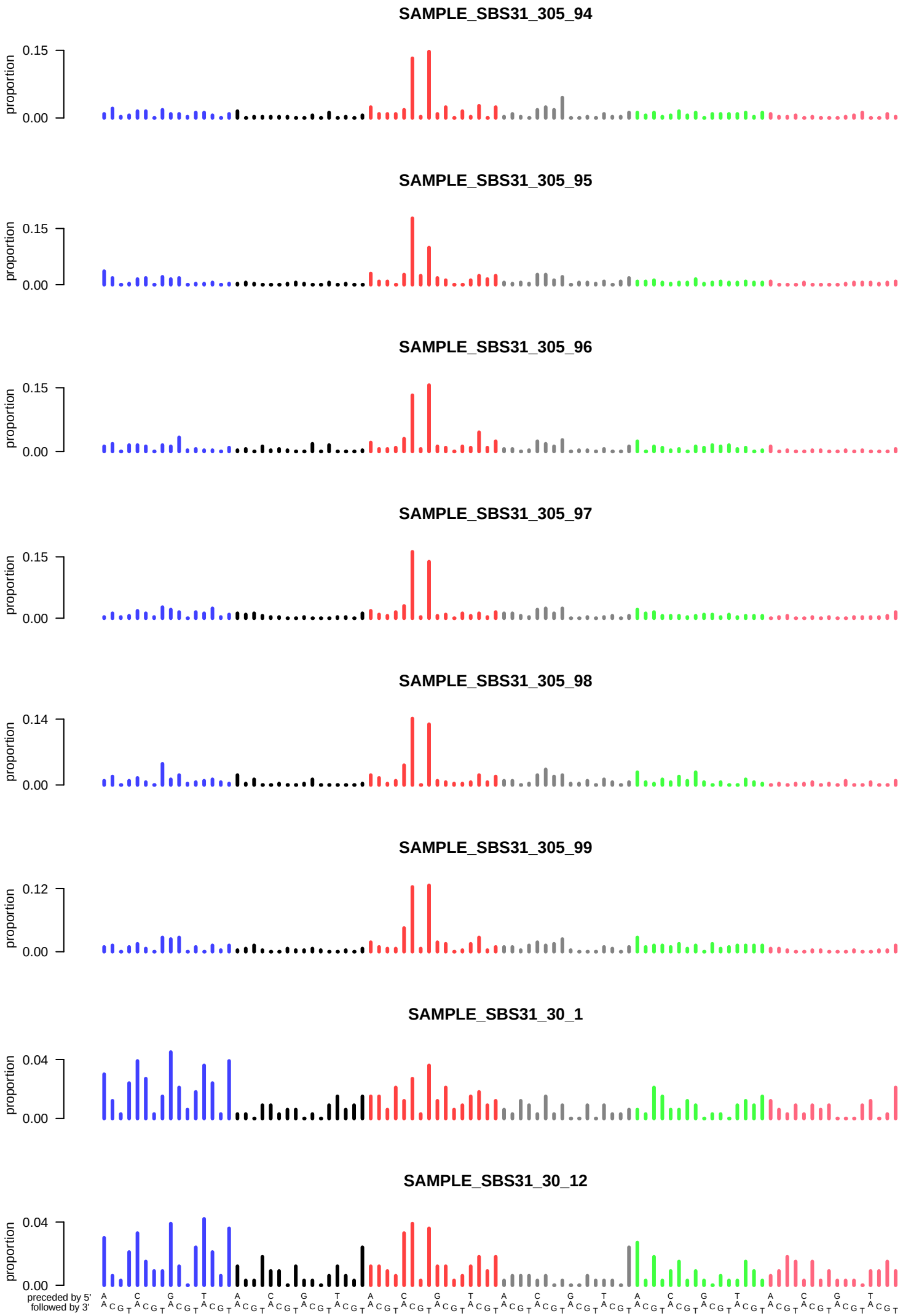
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proportion
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proportion
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0.00
SAMPLE_SBS31_30_1
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0.00
SAMPLE_SBS31_30_12
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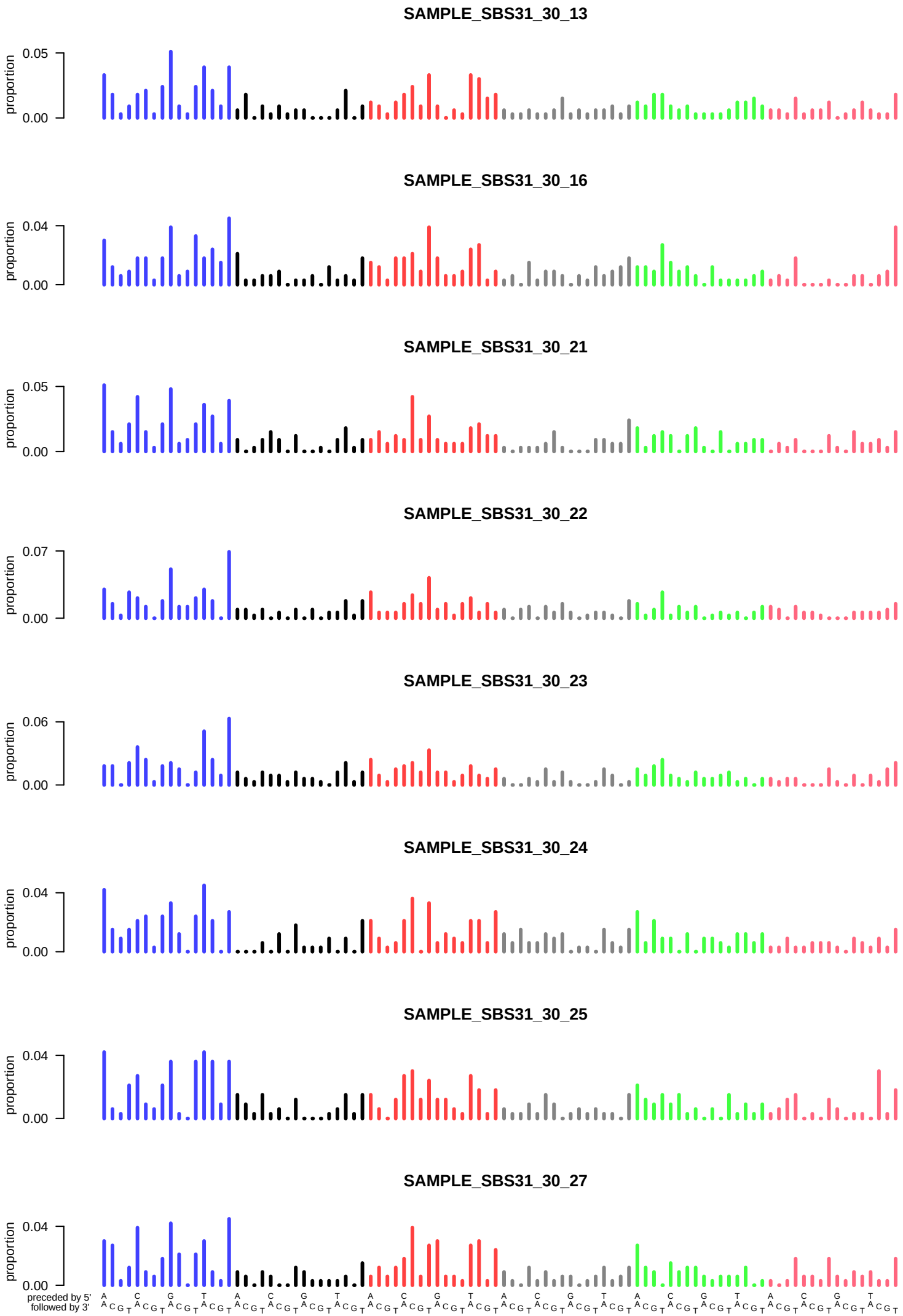
0.00
preceded by 5'
followed by 3'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SAMPLE_SBS31_30_22
proportion
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SAMPLE_SBS31_30_23
proportion
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SAMPLE_SBS31_30_24
proportion
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0.00
SAMPLE_SBS31_30_25
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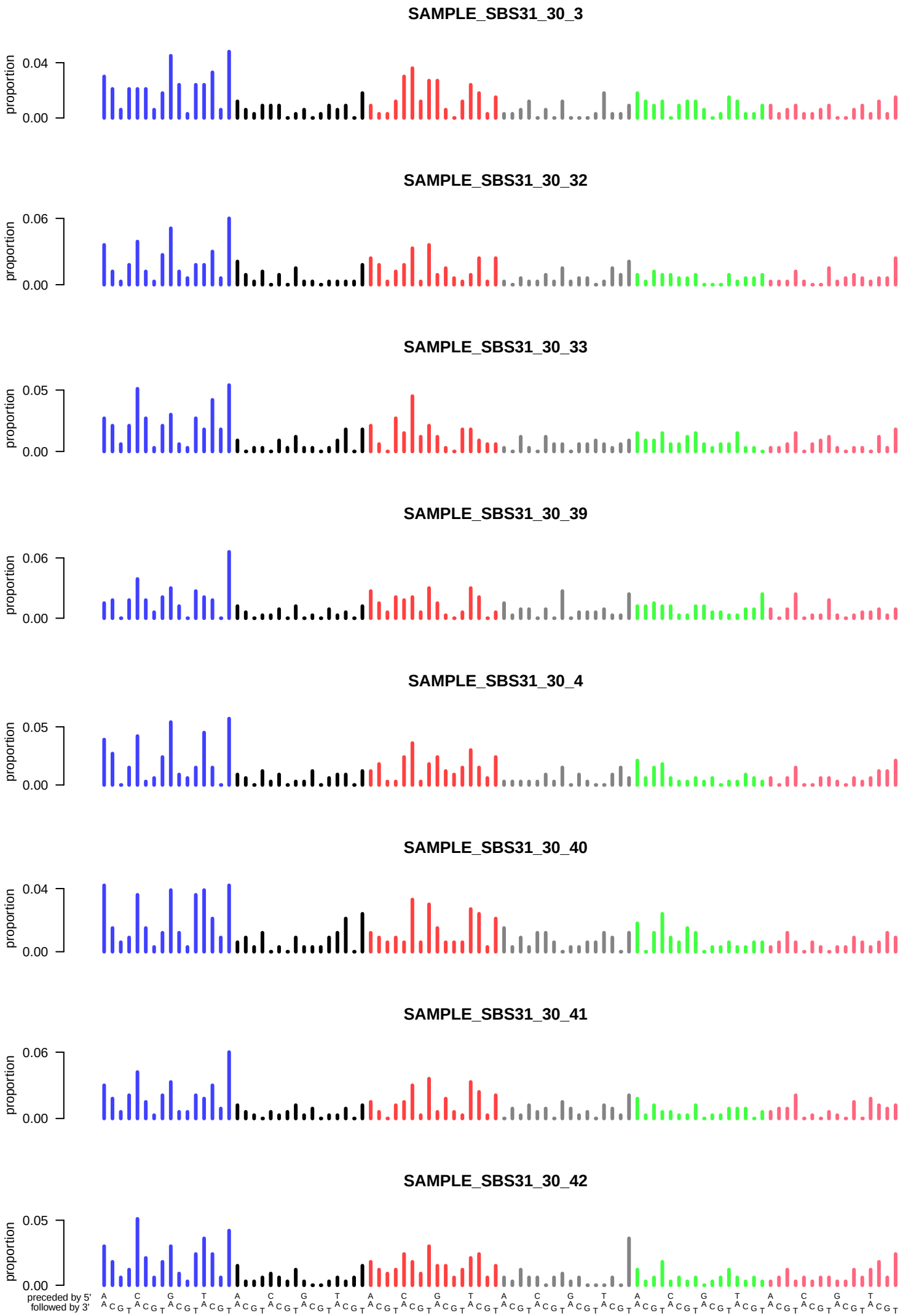
SAMPLE_SBS31_30_27
proportion
0.04
0.00
preceded by 5'
followed by 3'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SAMPLE_SBS31_30_33
proportion
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0.00
SAMPLE_SBS31_30_39
proportion
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0.00
SAMPLE_SBS31_30_4
proportion
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SAMPLE_SBS31_30_40
proportion
0.04
0.00
SAMPLE_SBS31_30_41
proportion
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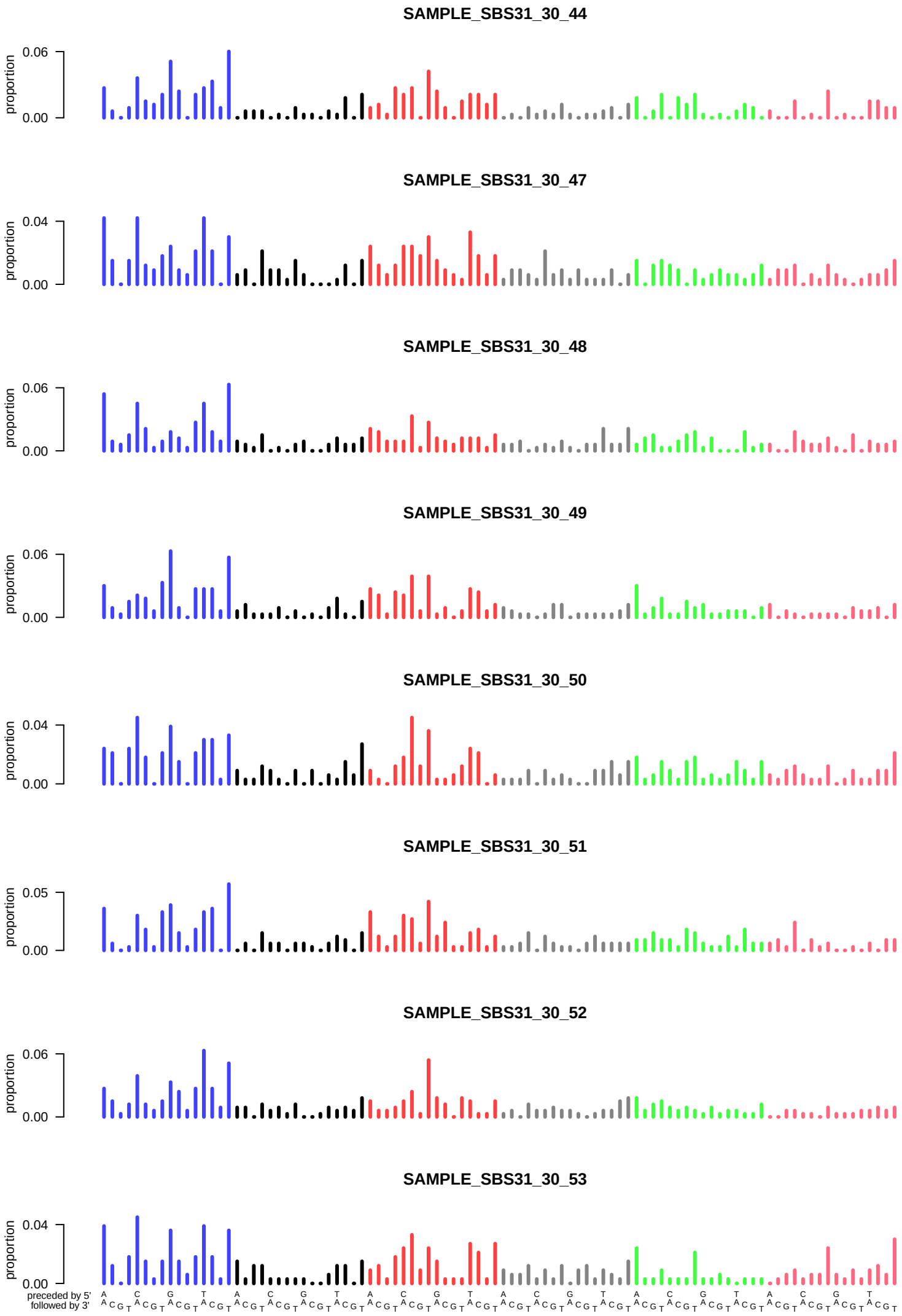
proportion
0.05
0.00
preceded by 5'
followed by 3'
A C G T A C G T A C G T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proportion
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0.00
SAMPLE_SBS31_30_49
proportion
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0.00
SAMPLE_SBS31_30_50
proportion
0.04
0.00
SAMPLE_SBS31_30_51
proportion
0.05
0.00
SAMPLE_SBS31_30_52
proportion
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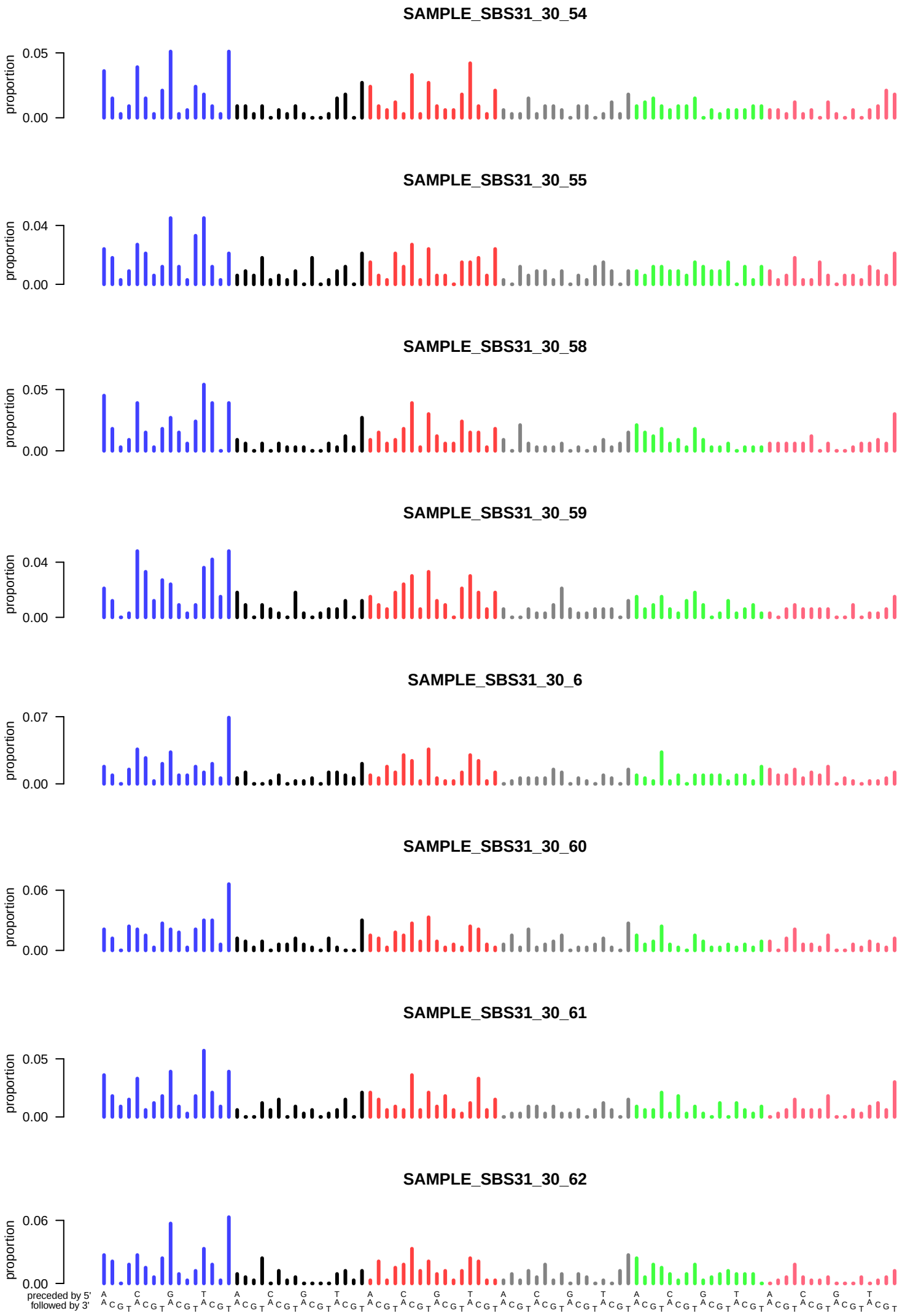
0.00
SAMPLE_SBS31_30_53
proportion
0.04
0.00
preceded by 5'
followed by 3'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proportion
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SAMPLE_SBS31_30_58
proportion
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0.00
SAMPLE_SBS31_30_59
proportion
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0.00
SAMPLE_SBS31_30_6
proportion
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0.00
SAMPLE_SBS31_30_60
proportion
0.06
0.00
SAMPLE_SBS31_30_61
proportion
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0.00
SAMPLE_SBS31_30_62
proportion
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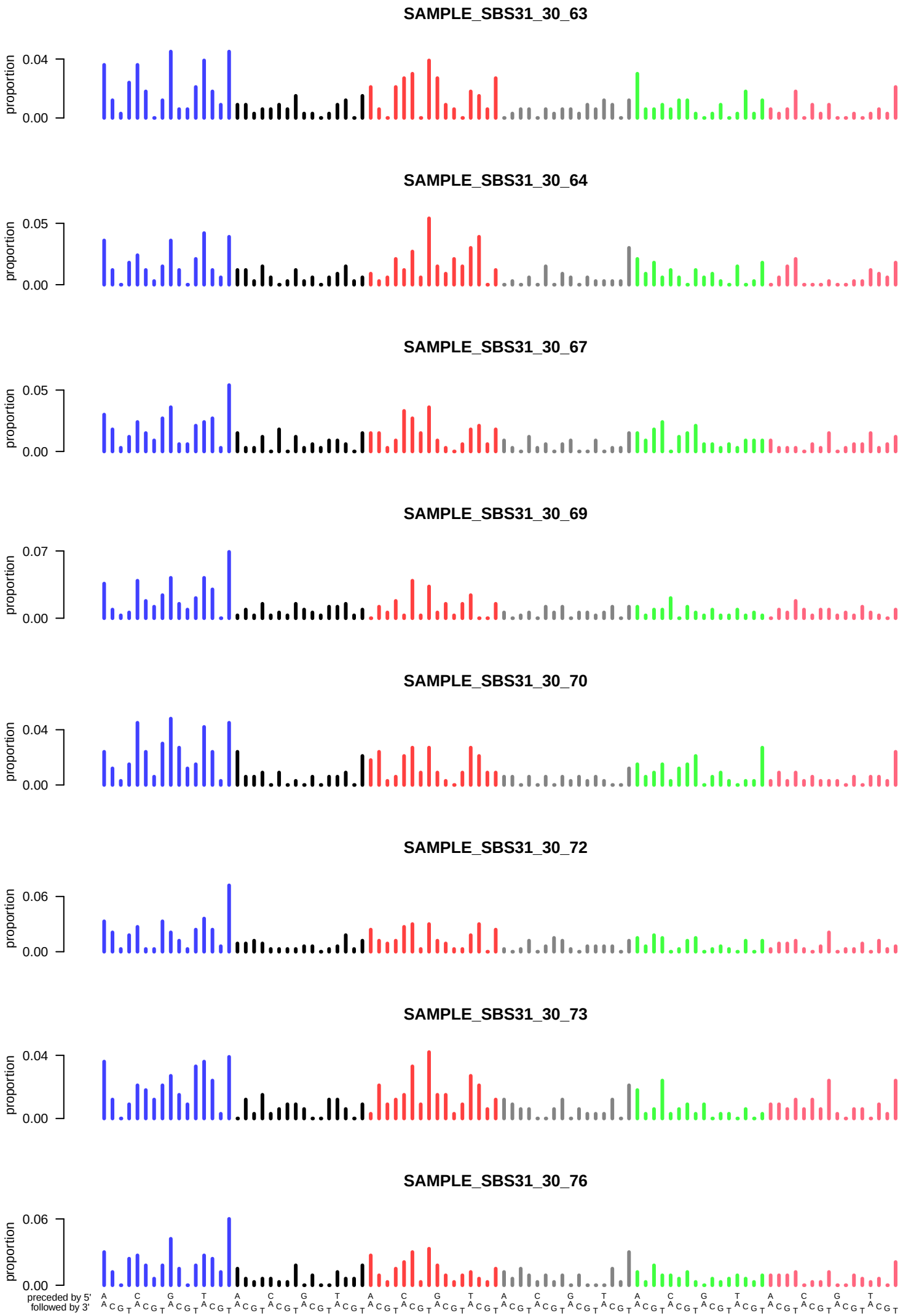
0.00
preceded by 5'
followed by 3'
A C G T A C G T A C G T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proportion
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0.00
SAMPLE_SBS31_30_69
proportion
0.07
0.00
SAMPLE_SBS31_30_70
proportion
0.04
0.00
SAMPLE_SBS31_30_72
proportion
0.06
0.00
SAMPLE_SBS31_30_73
proportion
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0.00
SAMPLE_SBS31_30_76
proportion
0.06
0.00
preceded by 5'
followed by 3'
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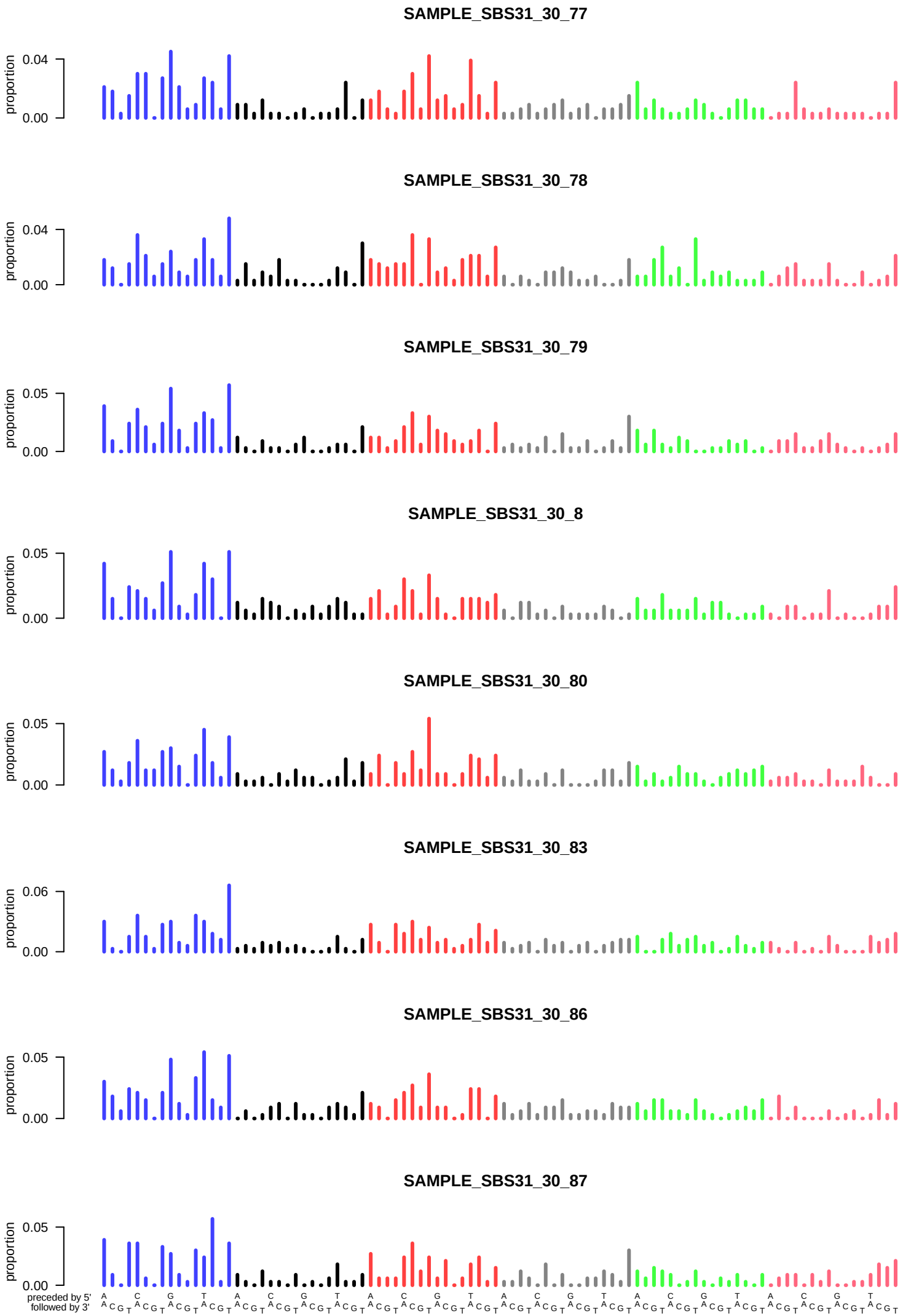
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SAMPLE_SBS31_30_79
proportion
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0.00
SAMPLE_SBS31_30_8
proportion
0.05
0.00
SAMPLE_SBS31_30_80
proportion
0.05
0.00
SAMPLE_SBS31_30_83
proportion
0.06
0.00
SAMPLE_SBS31_30_86
proportion
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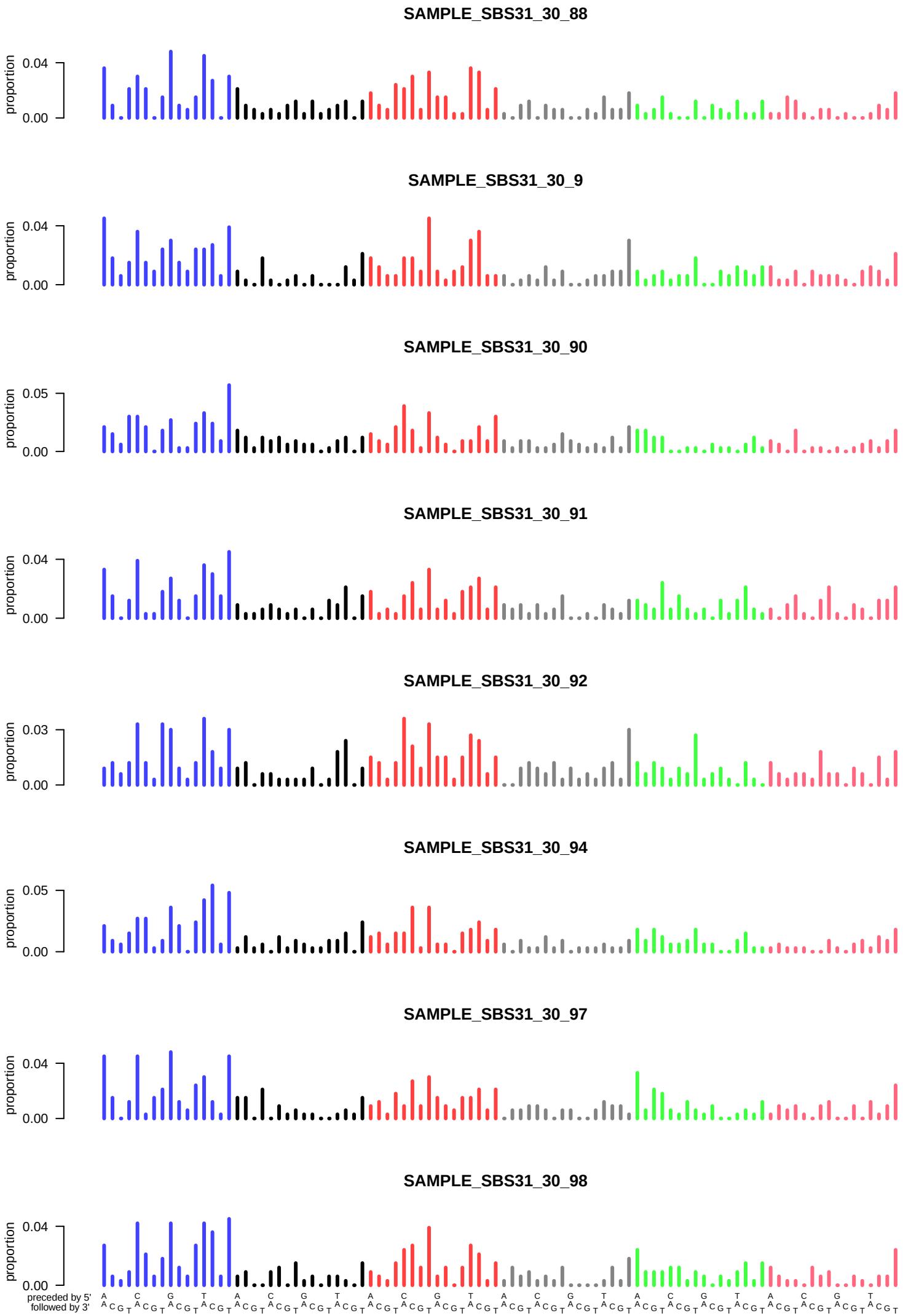
SAMPLE_SBS31_30_87
proportion
0.05
0.00
preceded by 5'
followed by 3'
A C G T A C G T A C G T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proportion
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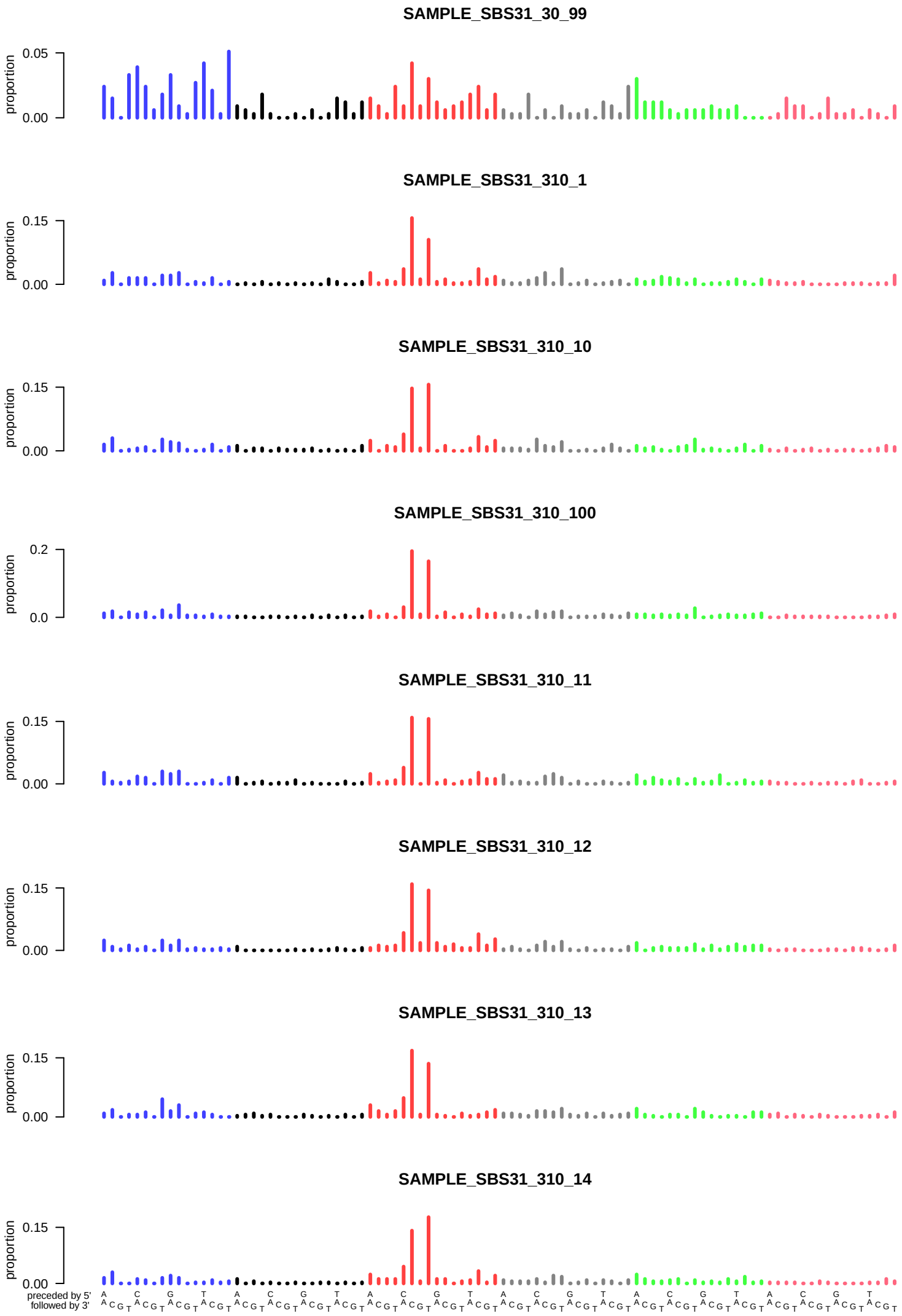
SAMPLE_SBS31_30_90
proportion
0.05
0.00
SAMPLE_SBS31_30_91
proportion
0.04
0.00
SAMPLE_SBS31_30_92
proportion
0.03
0.00
SAMPLE_SBS31_30_94
proportion
0.05
0.00
SAMPLE_SBS31_30_97
proportion
0.04
0.00
SAMPLE_SBS31_30_98
proportion
0.04
0.00
preceded by 5'
followed by 3'
A C G T A C G T A C G T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proportion
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SAMPLE_SBS31_310_10
proportion
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SAMPLE_SBS31_310_100
proportion
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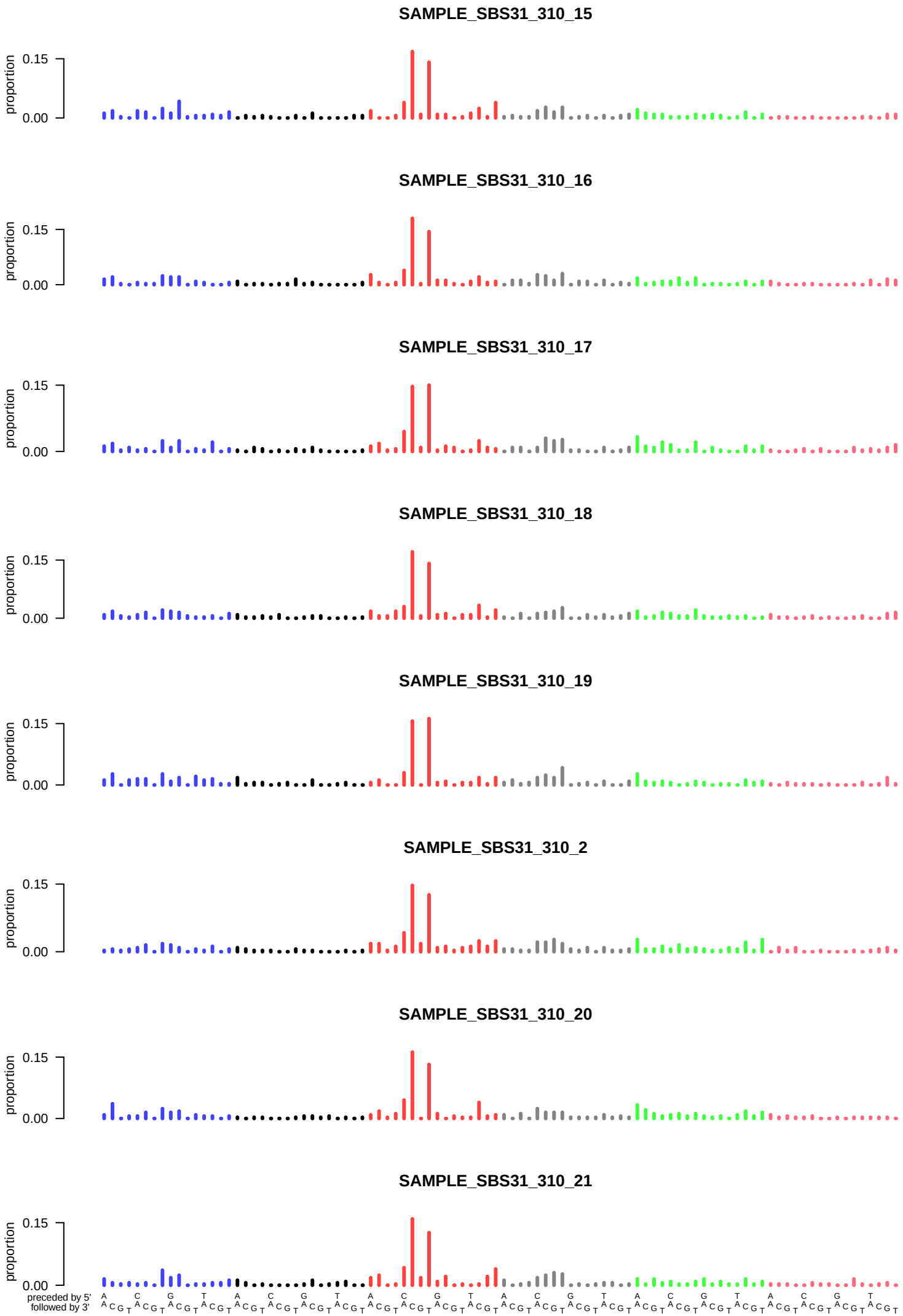
0.0
SAMPLE_SBS31_310_11
proportion
0.15
0.00
SAMPLE_SBS31_310_12
proportion
0.15
0.00
SAMPLE_SBS31_310_13
proportion
0.15
0.00
SAMPLE_SBS31_310_14
proportion
0.15
0.00
preceded by 5'
followed by 3'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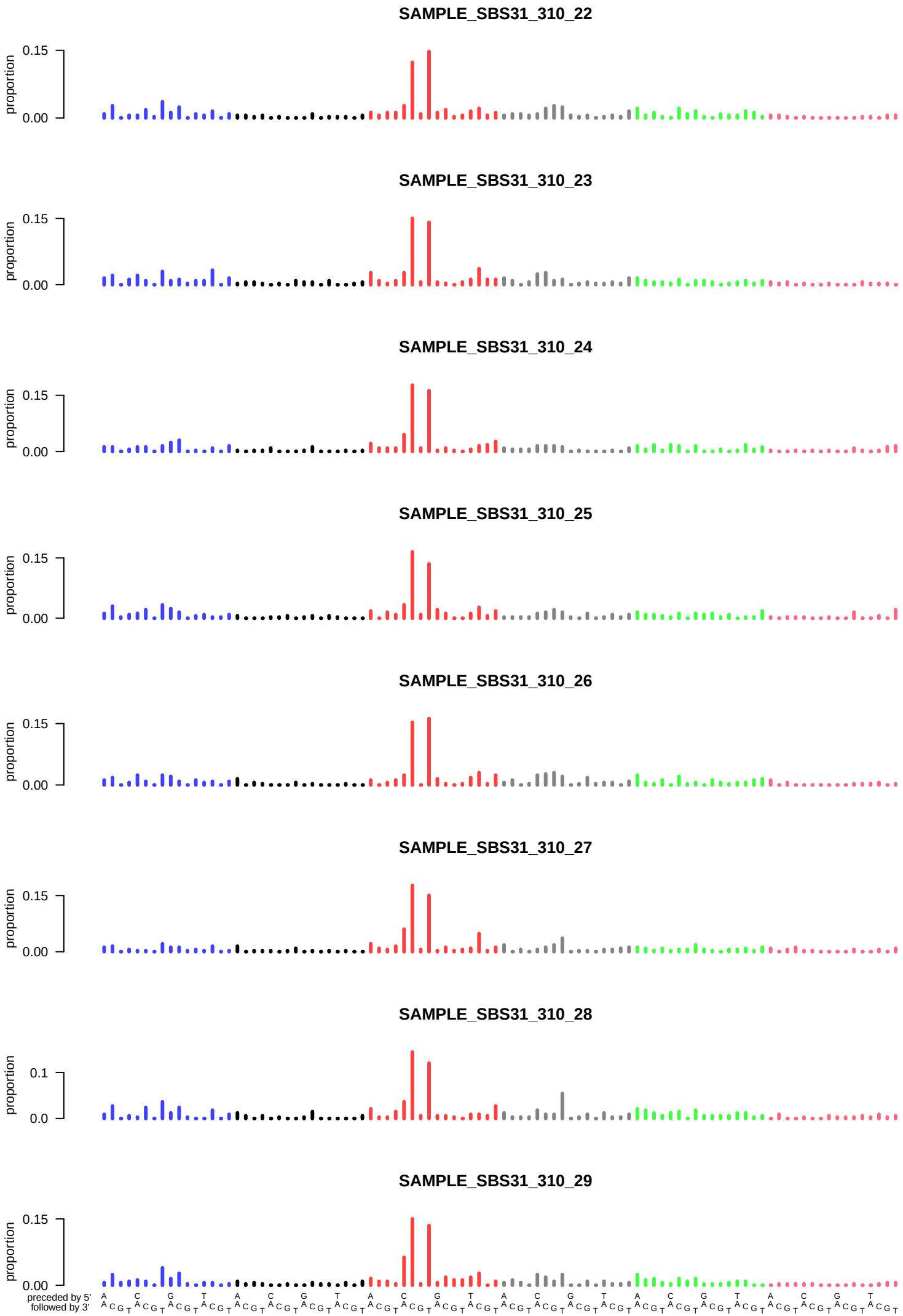
SAMPLE_SBS31_310_16
SAMPLE_SBS31_310_17
SAMPLE_SBS31_310_18
SAMPLE_SBS31_310_19
SAMPLE_SBS31_310_2
SAMPLE_SBS31_310_20
SAMPLE_SBS31_310_21
proportion
0.15
0.00
preceded by 5'
followed by 3'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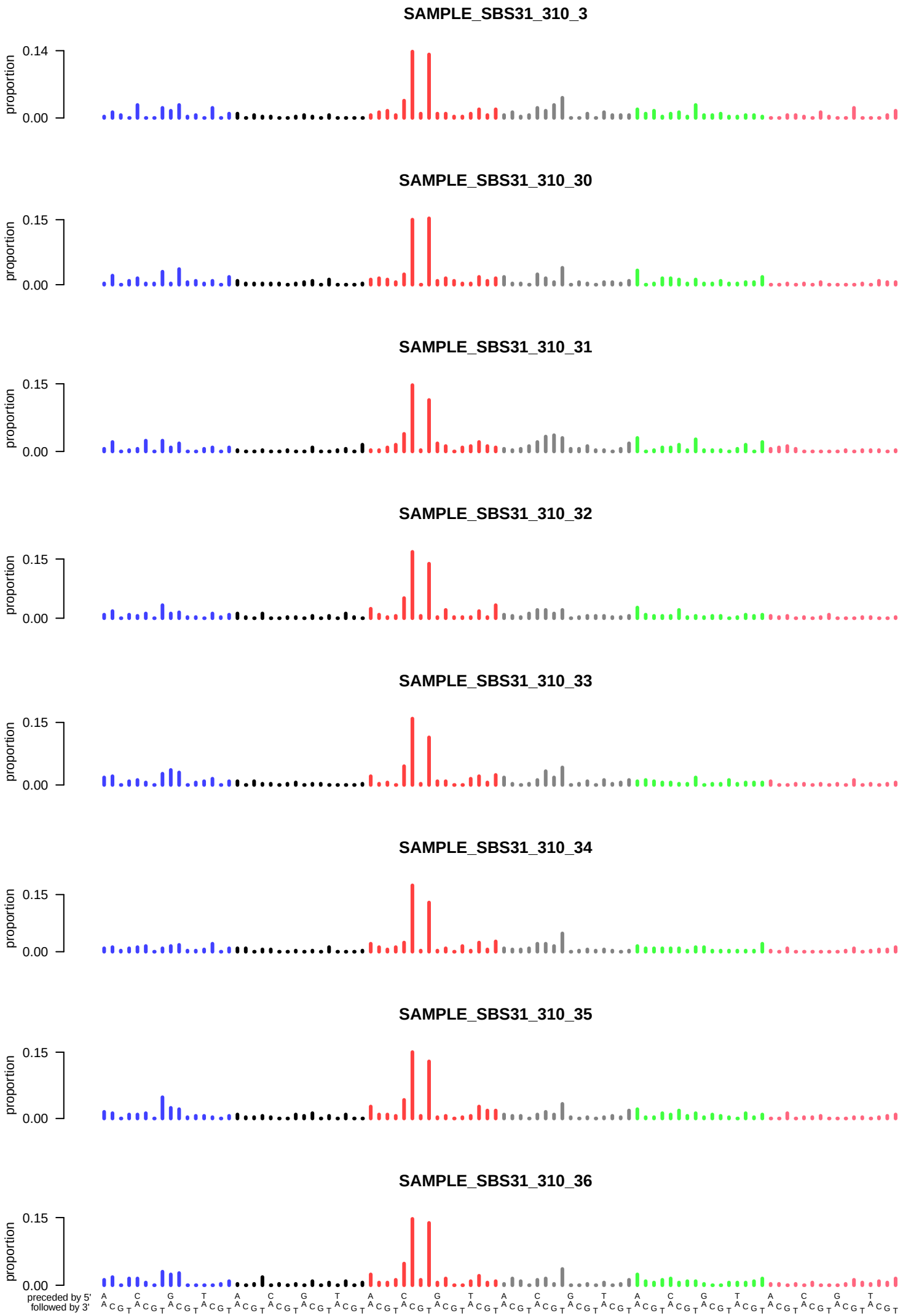
SAMPLE_SBS31_310_24
SAMPLE_SBS31_310_25
SAMPLE_SBS31_310_26
SAMPLE_SBS31_310_27
SAMPLE_SBS31_310_28
SAMPLE_SBS31_310_29
proportion
0.15
0.00
0.1
0.0
preceded by 5'
followed by 3'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SAMPLE_SBS31_310_31
SAMPLE_SBS31_310_32
SAMPLE_SBS31_310_33
SAMPLE_SBS31_310_34
SAMPLE_SBS31_310_35
SAMPLE_SBS31_310_36
proportion
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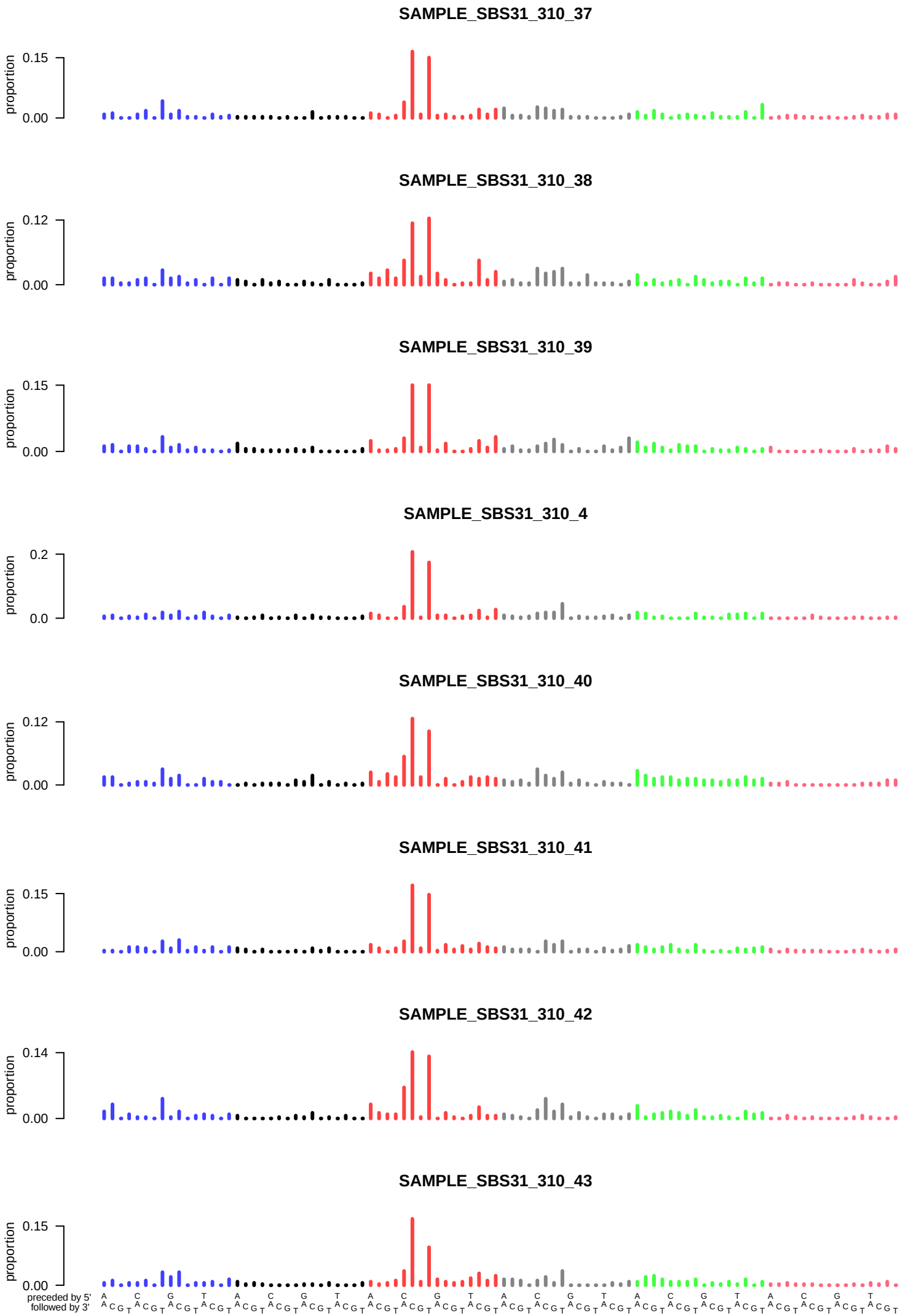
0.15
0.00
preceded by 5'
followed by 3'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SAMPLE_SBS31_310_38
proportion
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SAMPLE_SBS31_310_39
proportion
0.15
0.00
SAMPLE_SBS31_310_4
proportion
0.2
0.0
SAMPLE_SBS31_310_40
proportion
0.12
0.00
SAMPLE_SBS31_310_41
proportion
0.15
0.00
SAMPLE_SBS31_310_42
proportion
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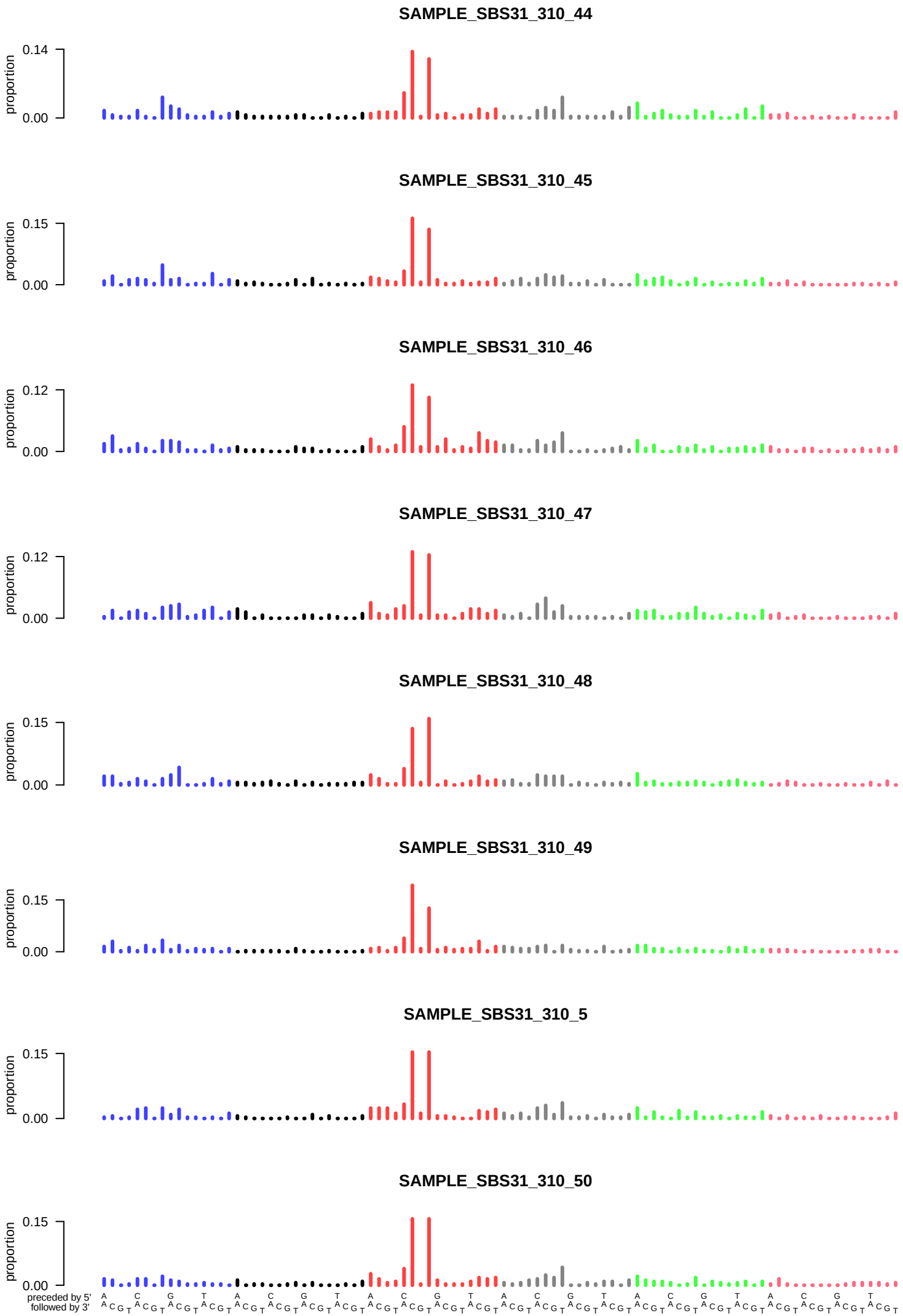
SAMPLE_SBS31_310_43
proportion
0.15
0.00
preceded by 5'
followed by 3'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proportion
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SAMPLE_SBS31_310_47
proportion
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SAMPLE_SBS31_310_48
proportion
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0.00
SAMPLE_SBS31_310_49
proportion
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0.00
SAMPLE_SBS31_310_5
proportion
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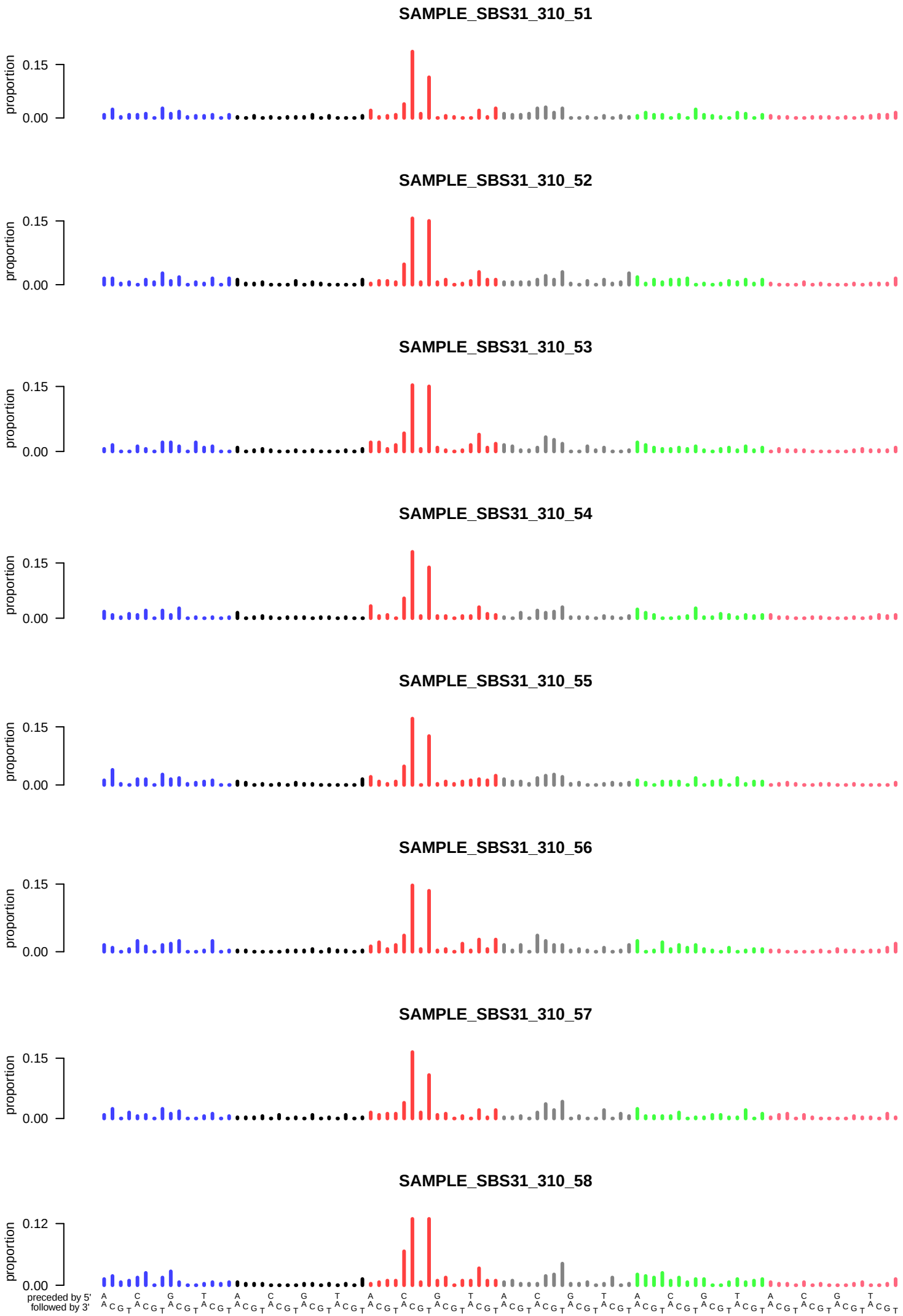
SAMPLE_SBS31_310_50
proportion
0.15
0.00
preceded by 5'
followed by 3'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SAMPLE_SBS31_310_53
SAMPLE_SBS31_310_54
SAMPLE_SBS31_310_55
SAMPLE_SBS31_310_56
SAMPLE_SBS31_310_57
SAMPLE_SBS31_310_58
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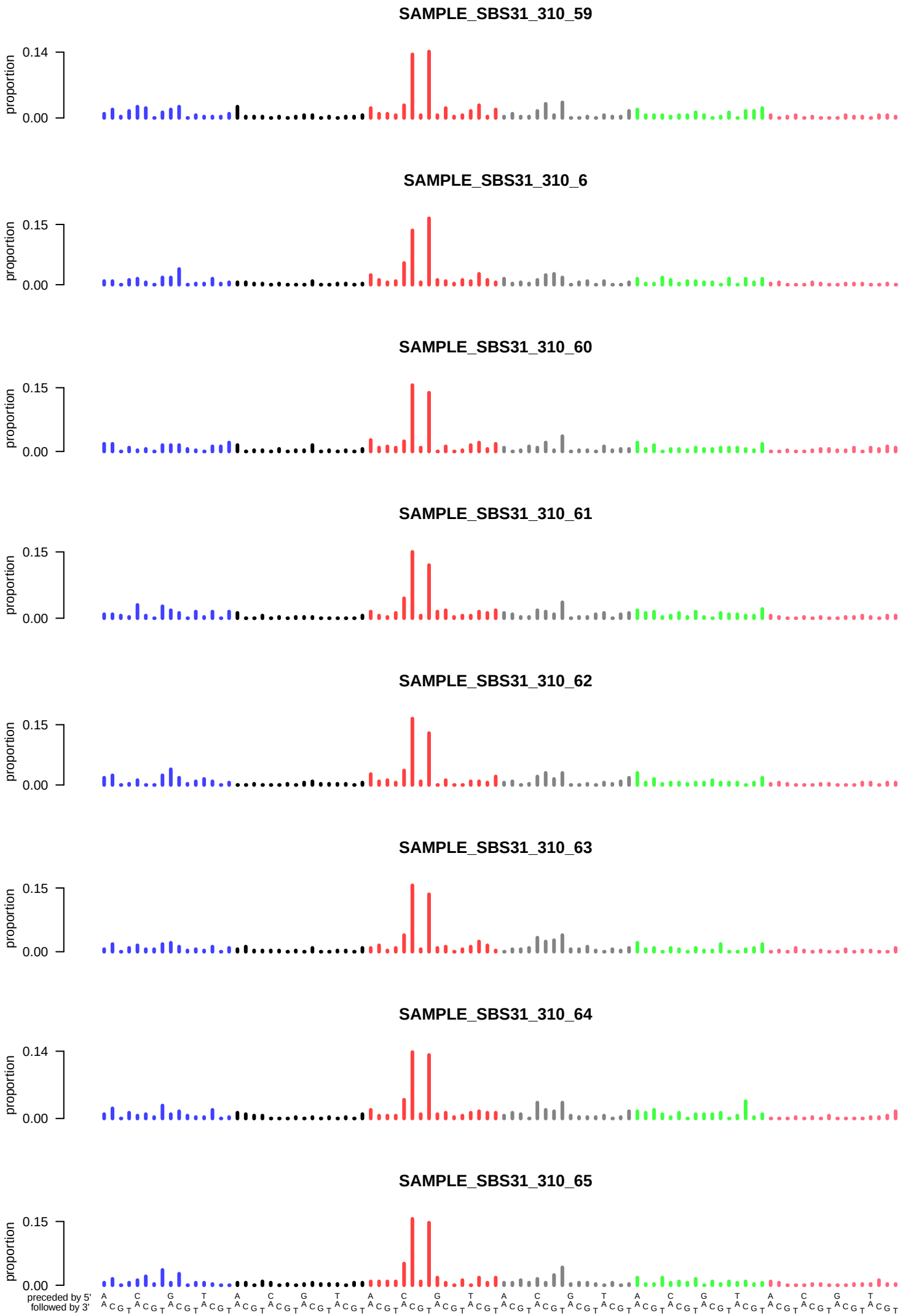
0.12
0.00
preceded by 5'
followed by 3'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SAMPLE_SBS31_310_61
SAMPLE_SBS31_310_62
SAMPLE_SBS31_310_63
SAMPLE_SBS31_310_64
SAMPLE_SBS31_310_65
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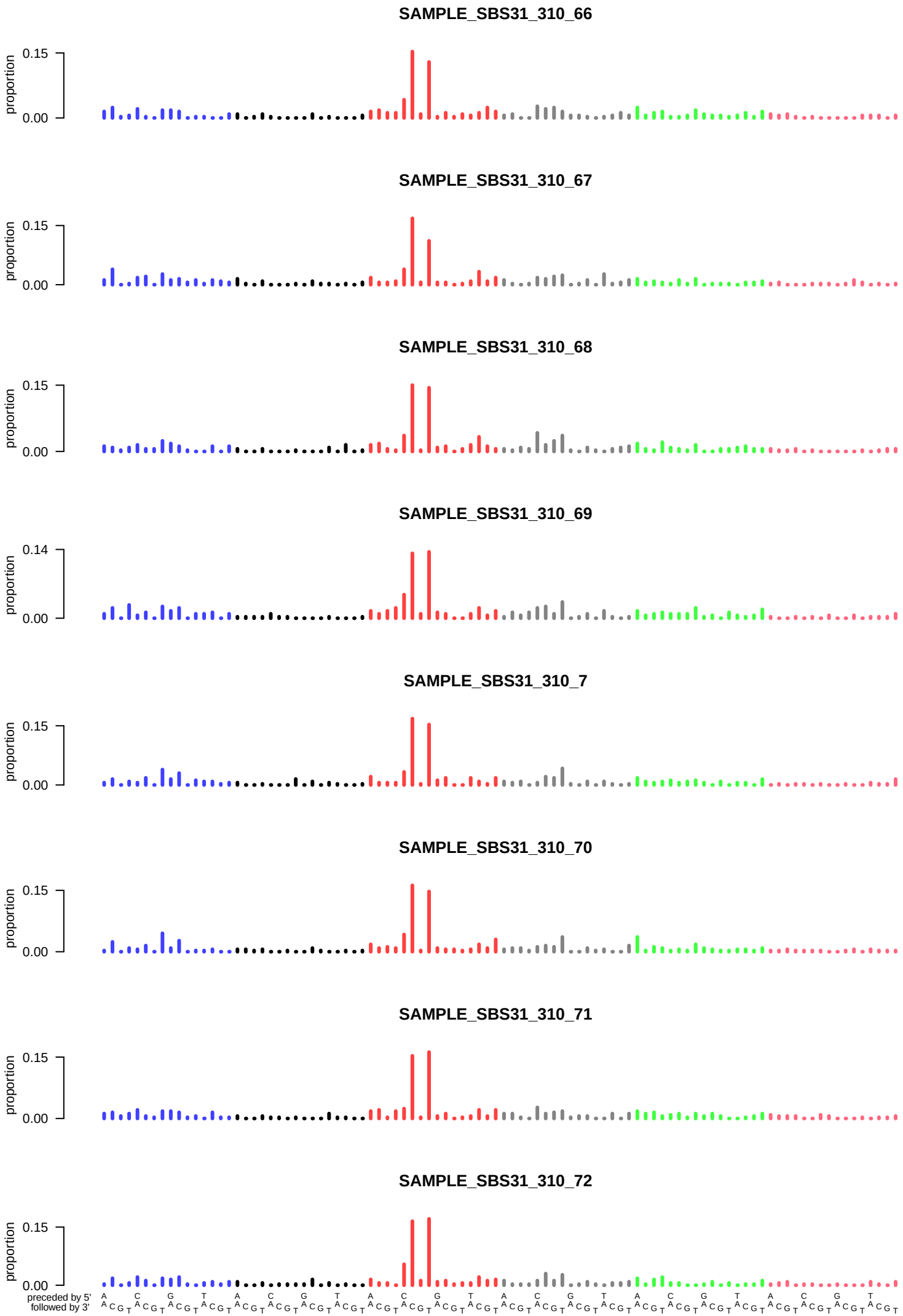
preceded by 5'
followed by 3'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SAMPLE_SBS31_310_69
SAMPLE_SBS31_310_7
SAMPLE_SBS31_310_70
SAMPLE_SBS31_310_71
SAMPLE_SBS31_310_72
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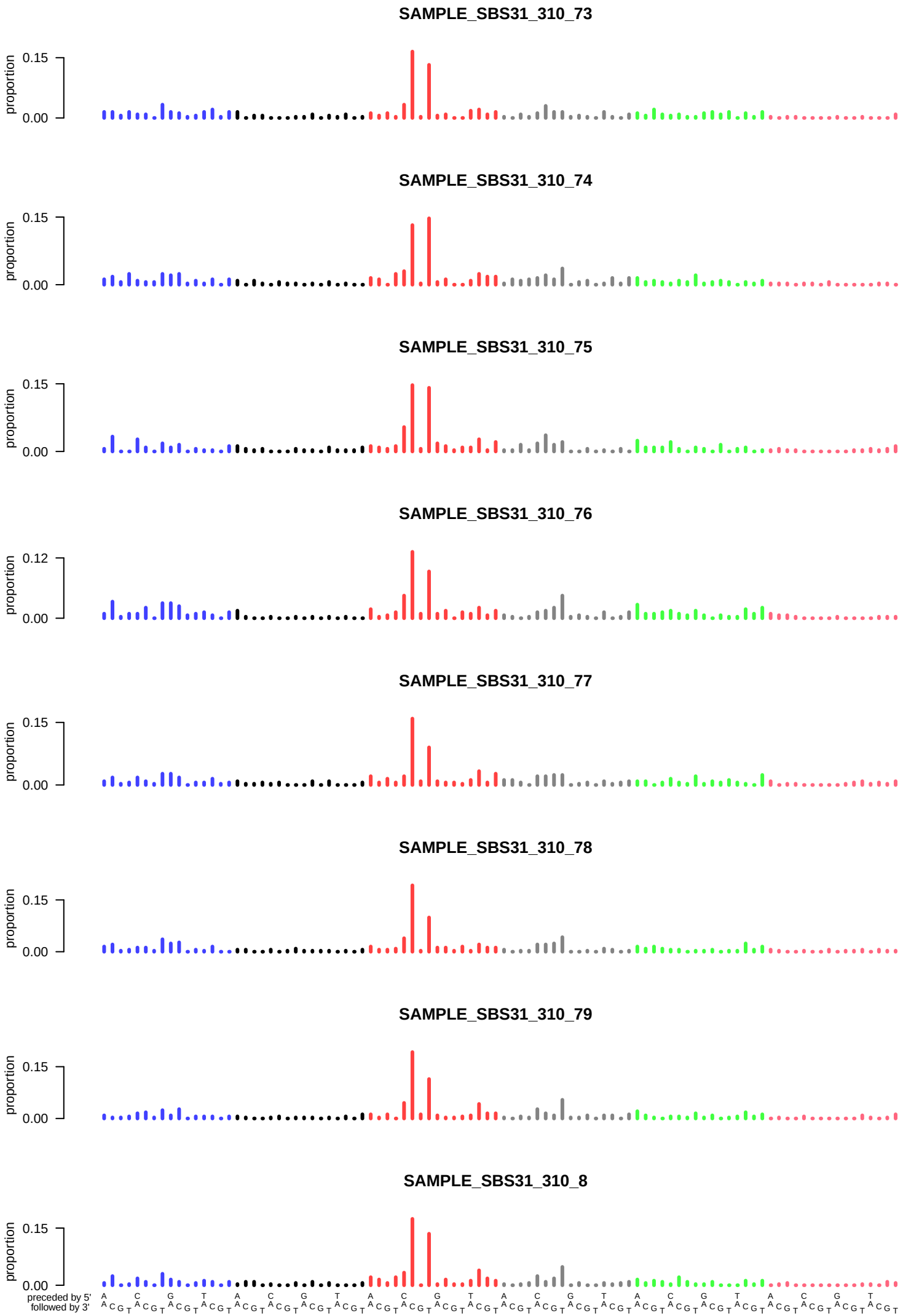
0.00
preceded by 5'
followed by 3'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SAMPLE_SBS31_310_76
SAMPLE_SBS31_310_77
SAMPLE_SBS31_310_78
SAMPLE_SBS31_310_79
SAMPLE_SBS31_310_8
proportion
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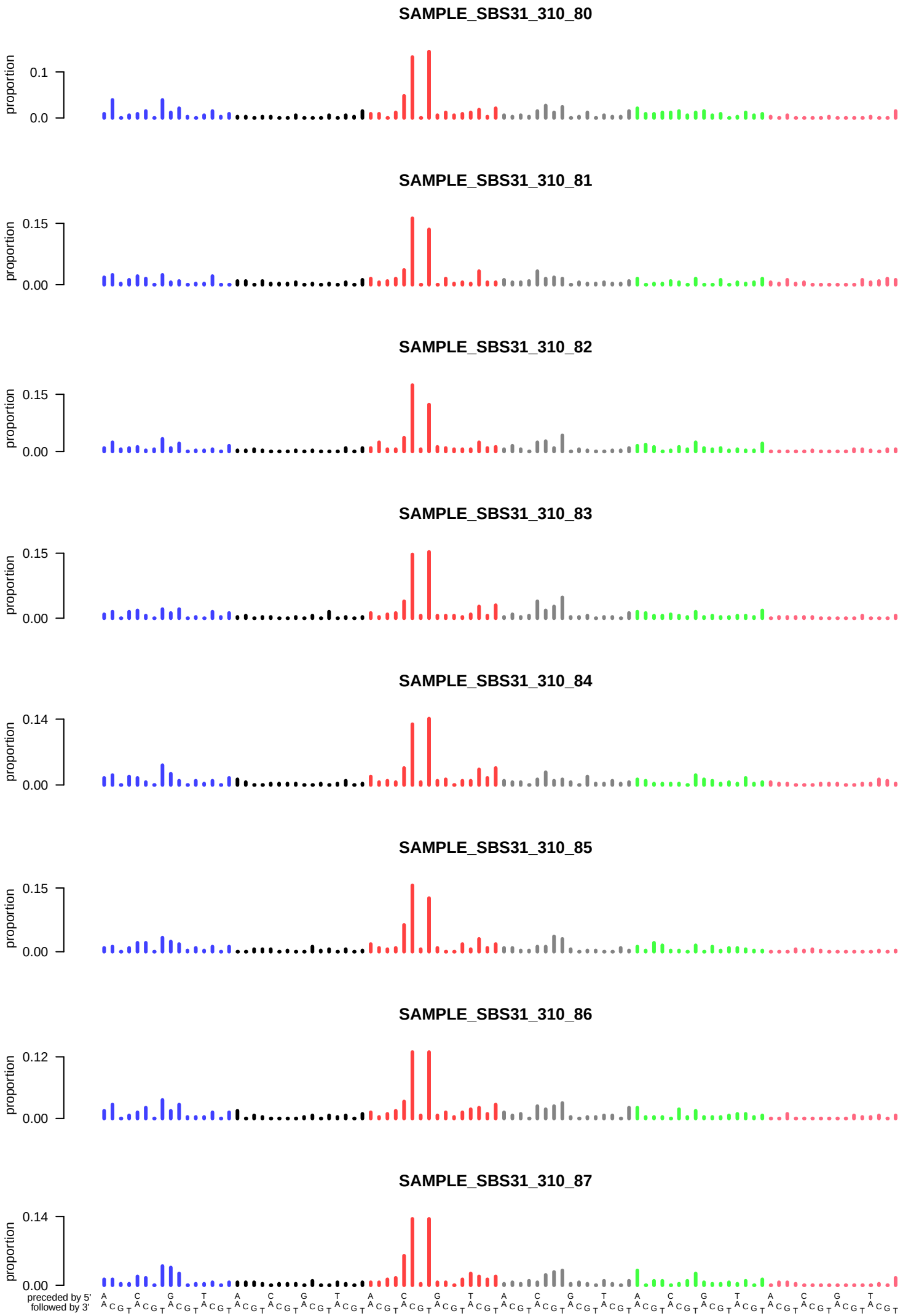
0.12
0.00
preceded by 5'
followed by 3'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proportion
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SAMPLE_SBS31_310_82
proportion
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SAMPLE_SBS31_310_83
proportion
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SAMPLE_SBS31_310_84
proportion
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SAMPLE_SBS31_310_85
proportion
0.15
0.00
SAMPLE_SBS31_310_86
proportion
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0.00
SAMPLE_SBS31_310_87
proportion
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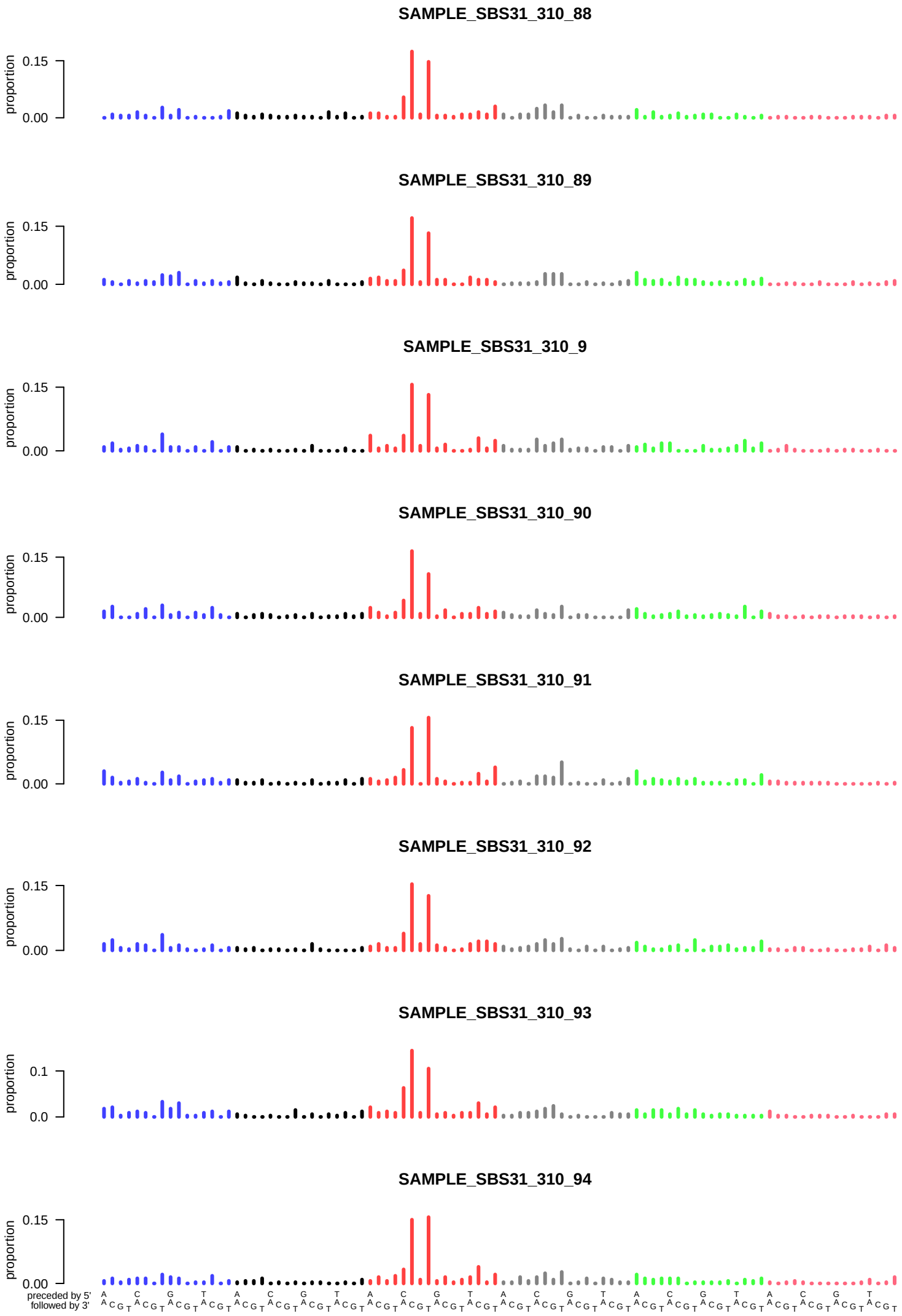
0.00
preceded by 5'
followed by 3'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SAMPLE_SBS31_310_90
SAMPLE_SBS31_310_91
SAMPLE_SBS31_310_92
SAMPLE_SBS31_310_93
SAMPLE_SBS31_310_94
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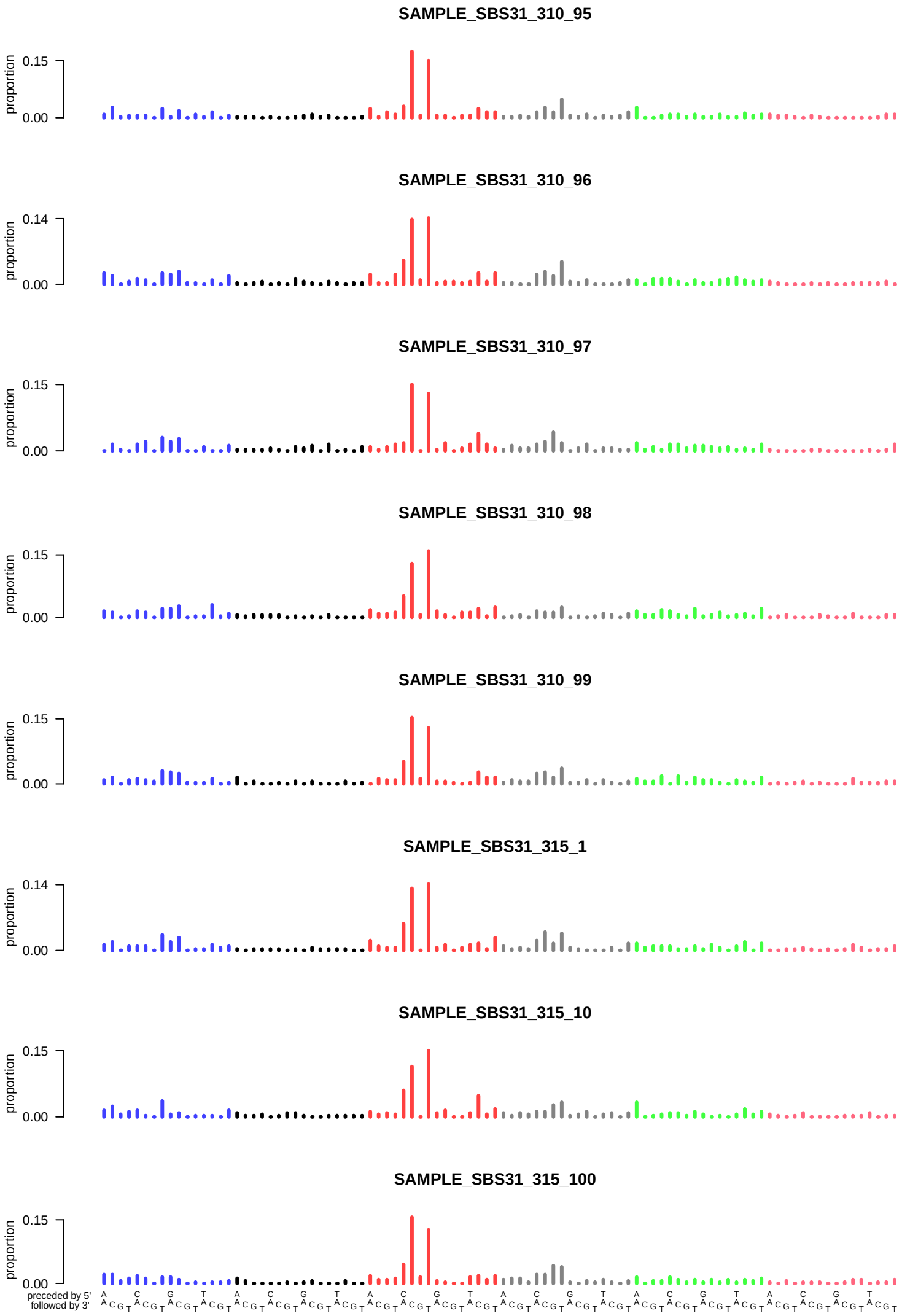
0.1
0.0
preceded by 5'
followed by 3'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proportion
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proportion
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SAMPLE_SBS31_310_99
proportion
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SAMPLE_SBS31_315_1
proportion
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SAMPLE_SBS31_315_10
proportion
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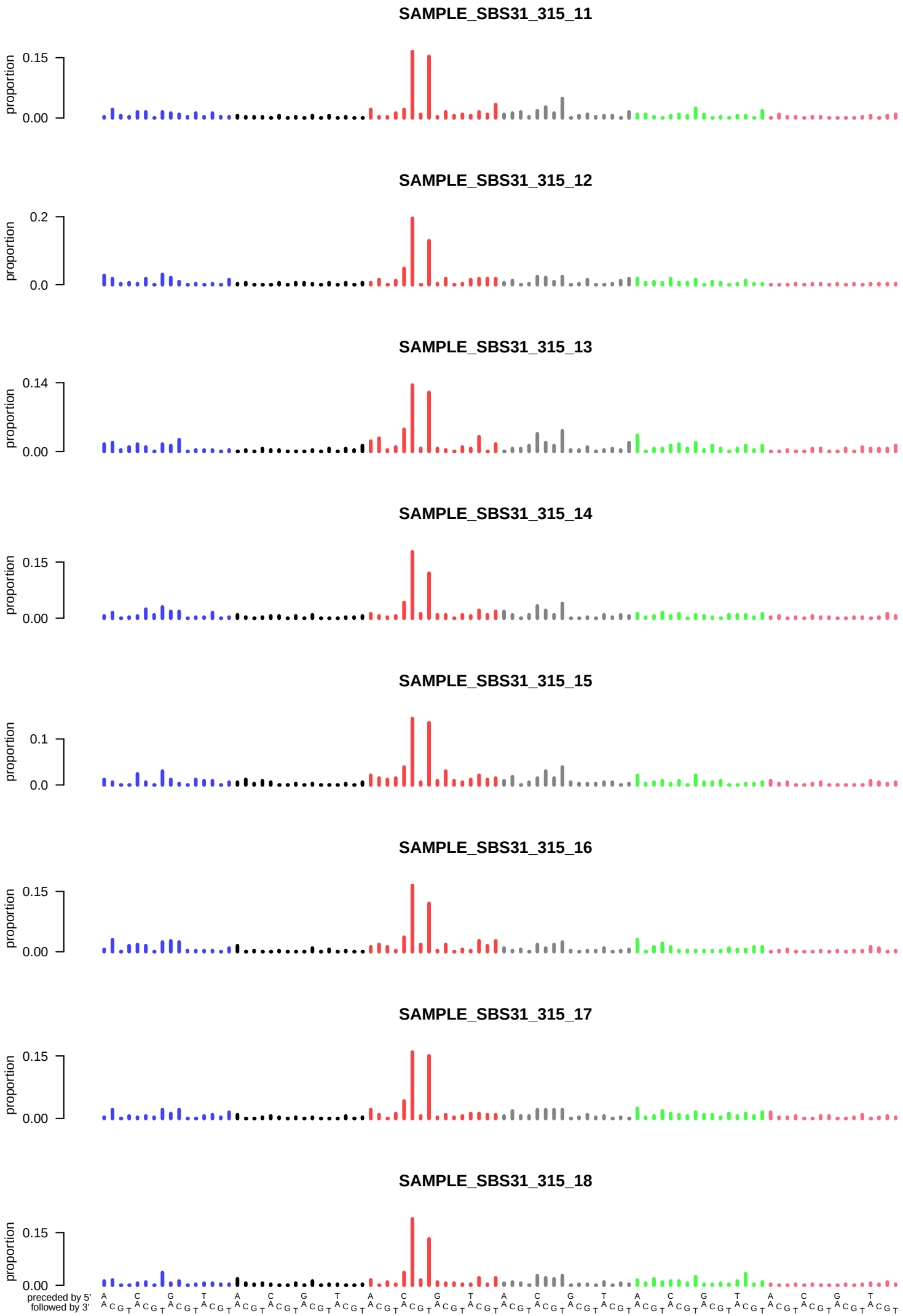
SAMPLE_SBS31_315_100
proportion
0.15
0.00
preceded by 5'
followed by 3'
A C G T A C G T A C G T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proportion
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proportion
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SAMPLE_SBS31_315_14
proportion
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proportion
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proportion
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SAMPLE_SBS31_315_17
proportion
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proportion
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0.00
preceded by 5'
followed by 3'
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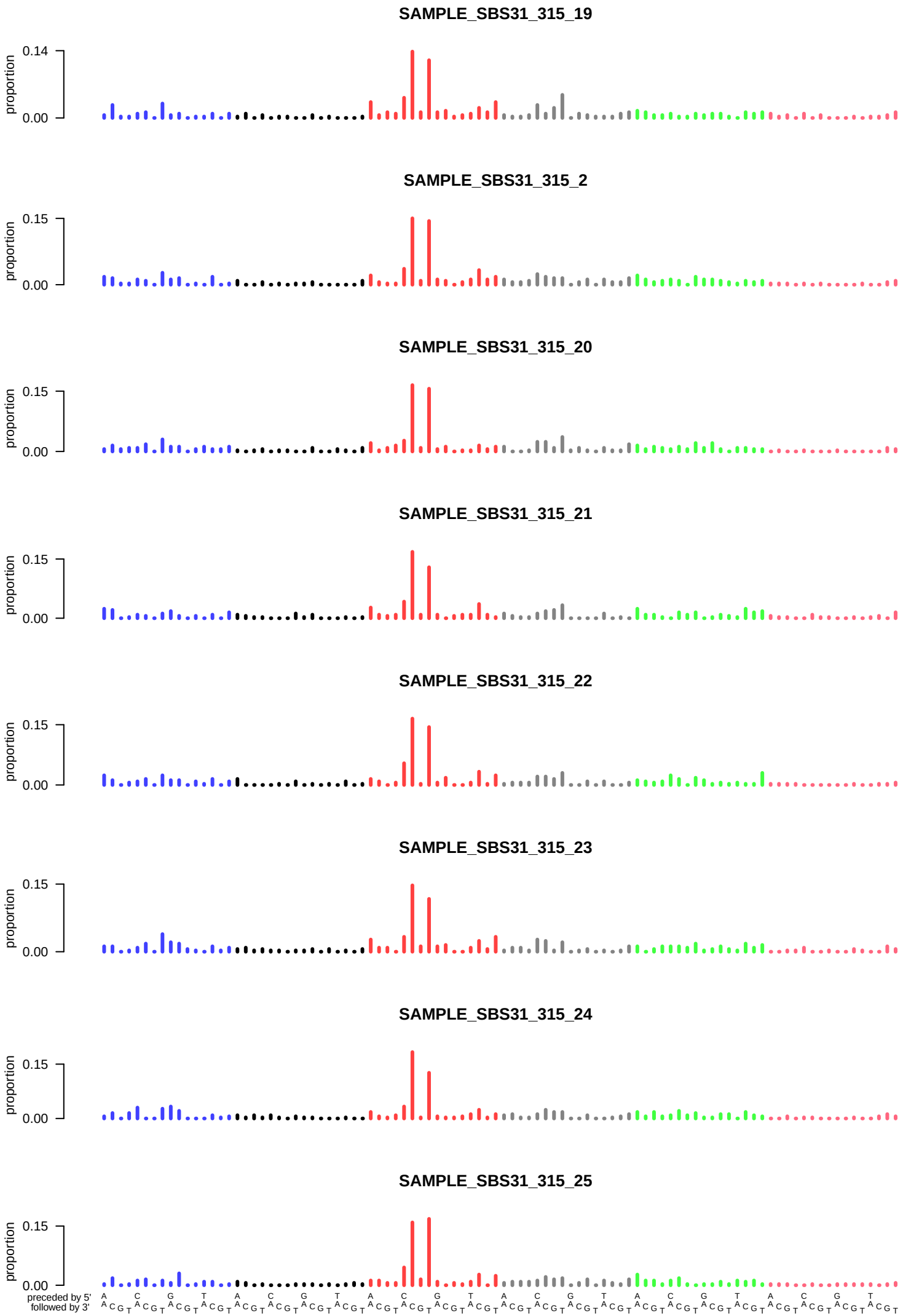
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SAMPLE_SBS31_315_21
SAMPLE_SBS31_315_22
SAMPLE_SBS31_315_23
SAMPLE_SBS31_315_24
SAMPLE_SBS31_315_25
proportion
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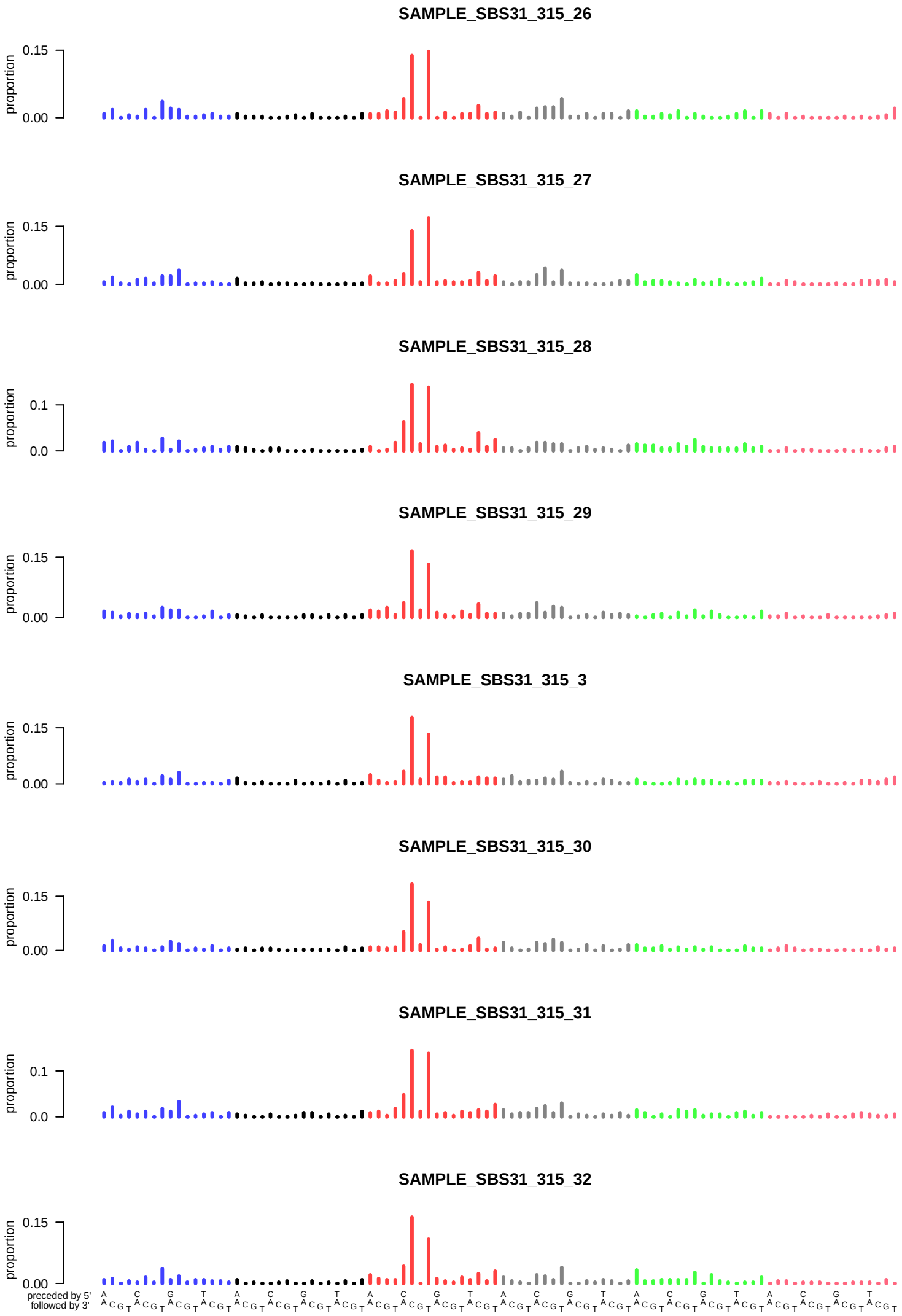
0.00
preceded by 5'
followed by 3'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SAMPLE_SBS31_315_29
SAMPLE_SBS31_315_3
SAMPLE_SBS31_315_30
SAMPLE_SBS31_315_31
SAMPLE_SBS31_315_32
proportion
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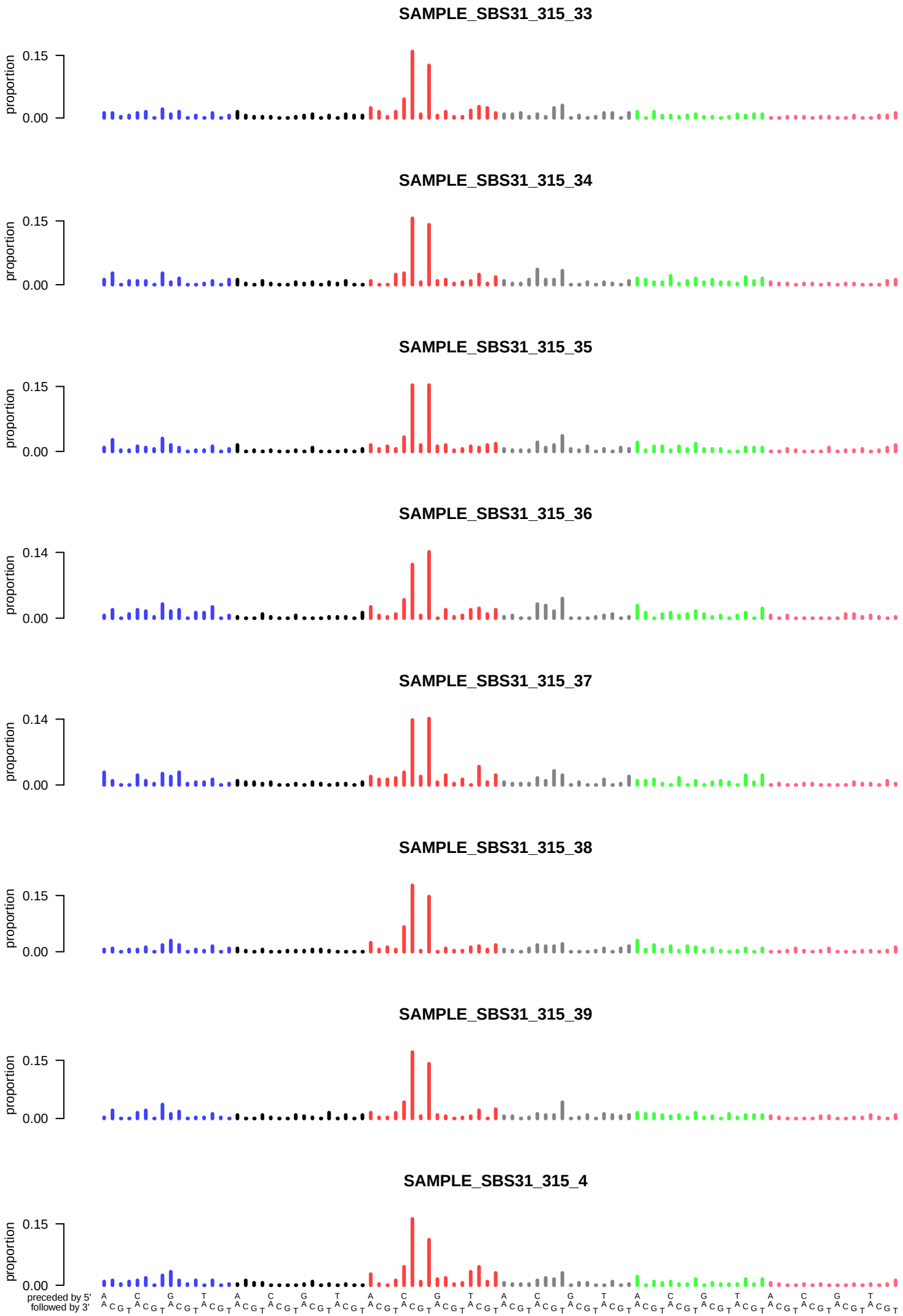
0.00
0.1
0.0
preceded by 5'
followed by 3'
A C G T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SAMPLE_SBS31_315_36
SAMPLE_SBS31_315_37
SAMPLE_SBS31_315_38
SAMPLE_SBS31_315_39
SAMPLE_SBS31_315_4
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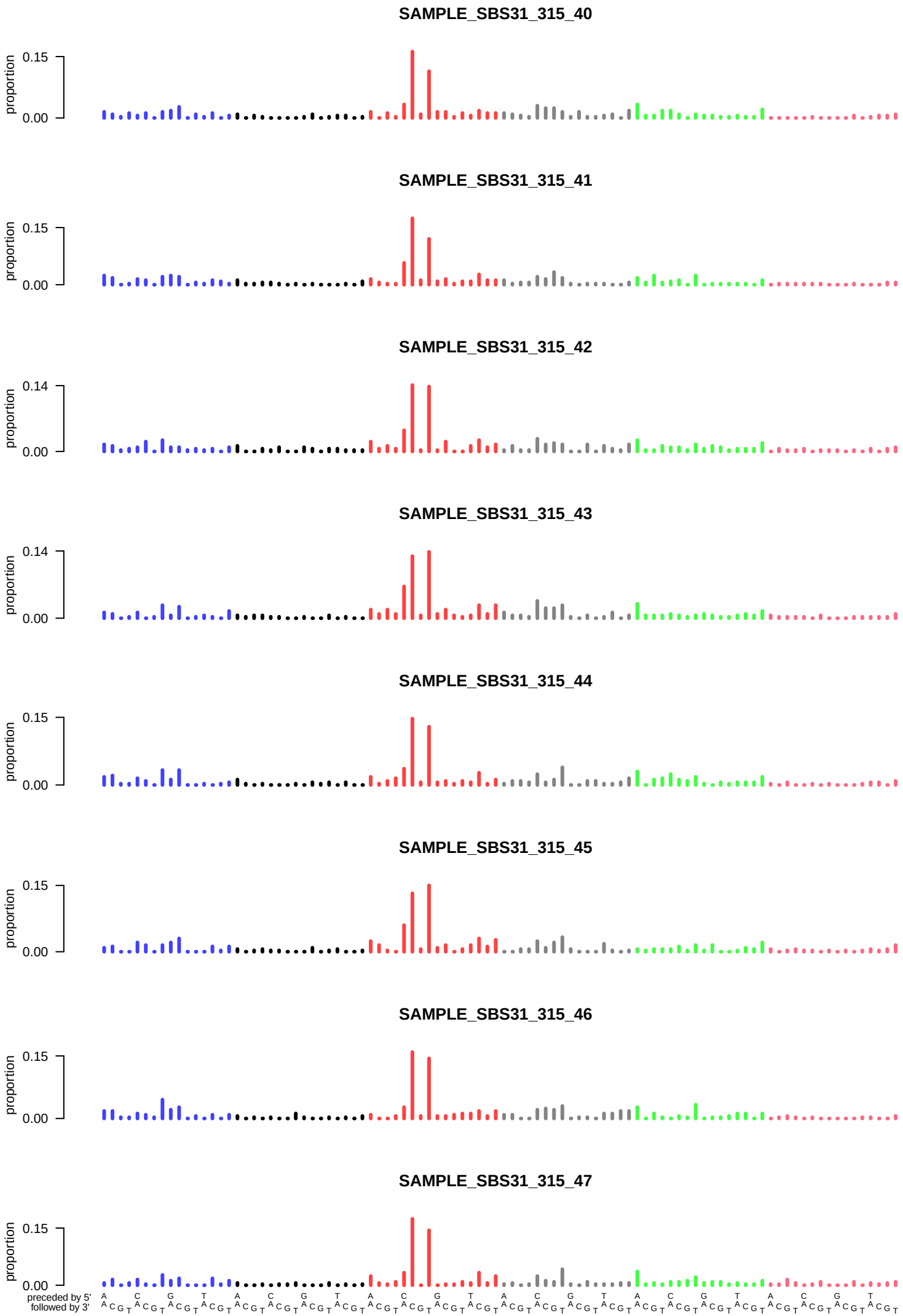
0.14
0.00
preceded by 5'
followed by 3'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SAMPLE_SBS31_315_42
SAMPLE_SBS31_315_43
SAMPLE_SBS31_315_44
SAMPLE_SBS31_315_45
SAMPLE_SBS31_315_46
SAMPLE_SBS31_315_47
proportion
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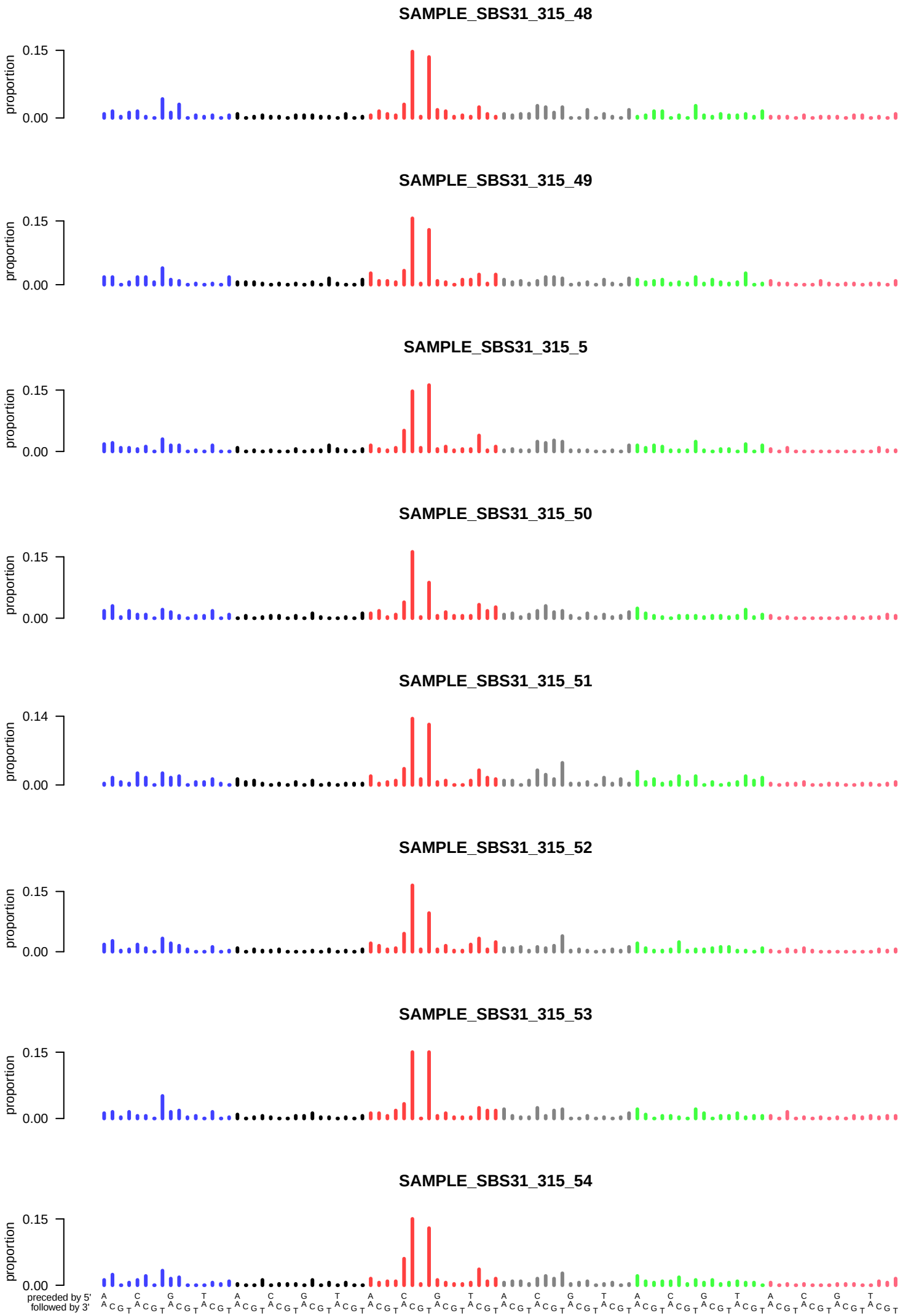
0.14
0.00
preceded by 5'
followed by 3'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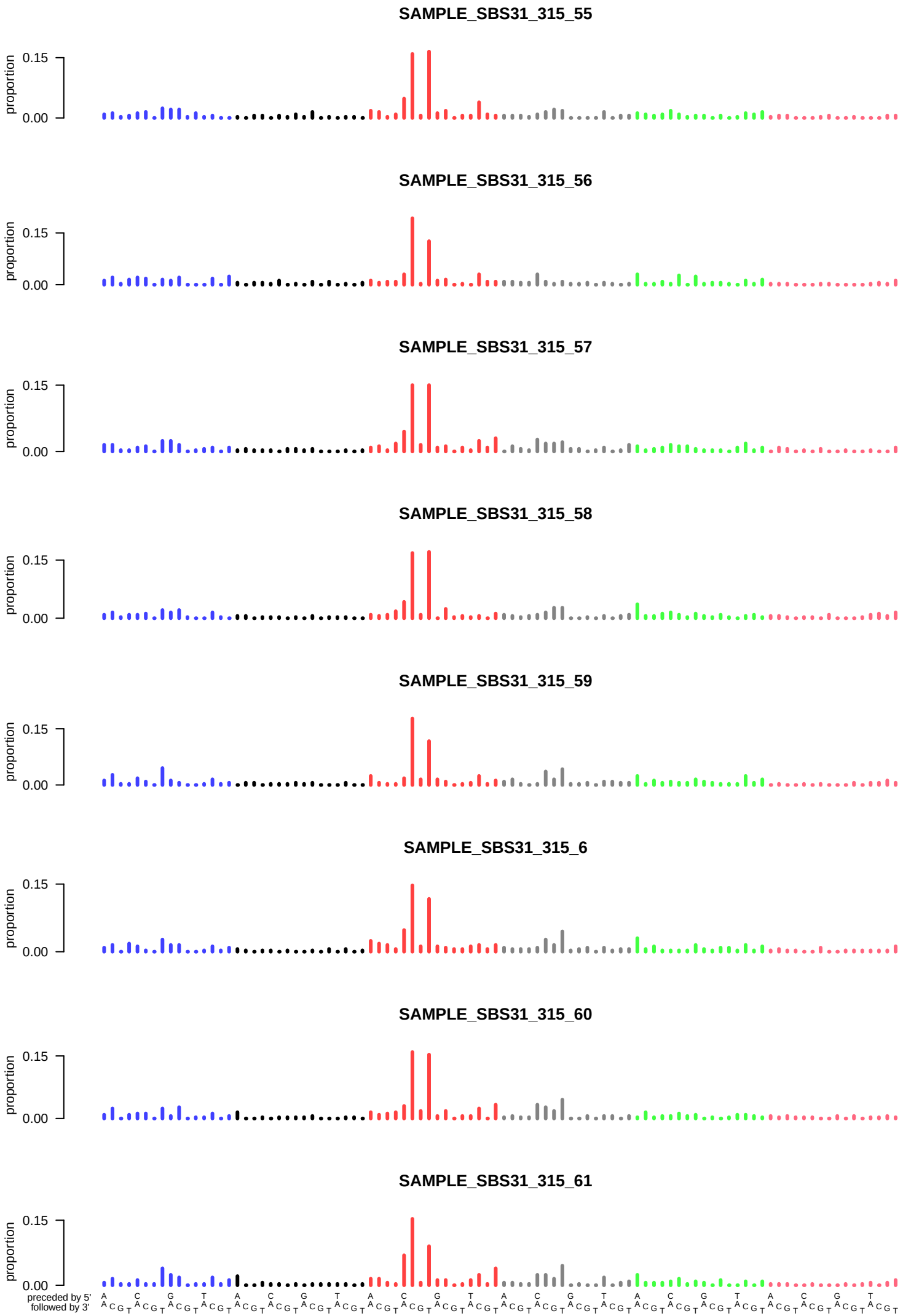
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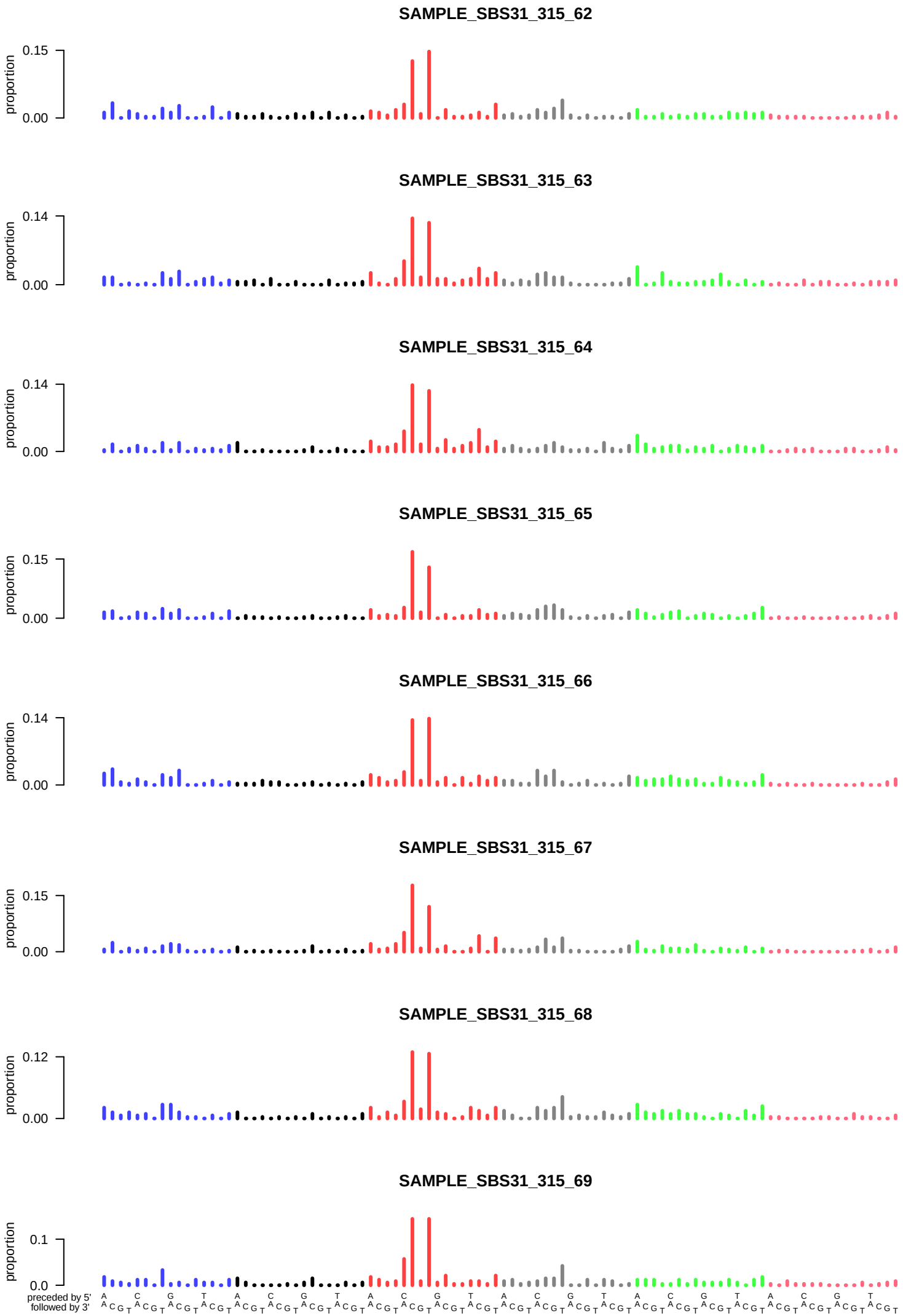
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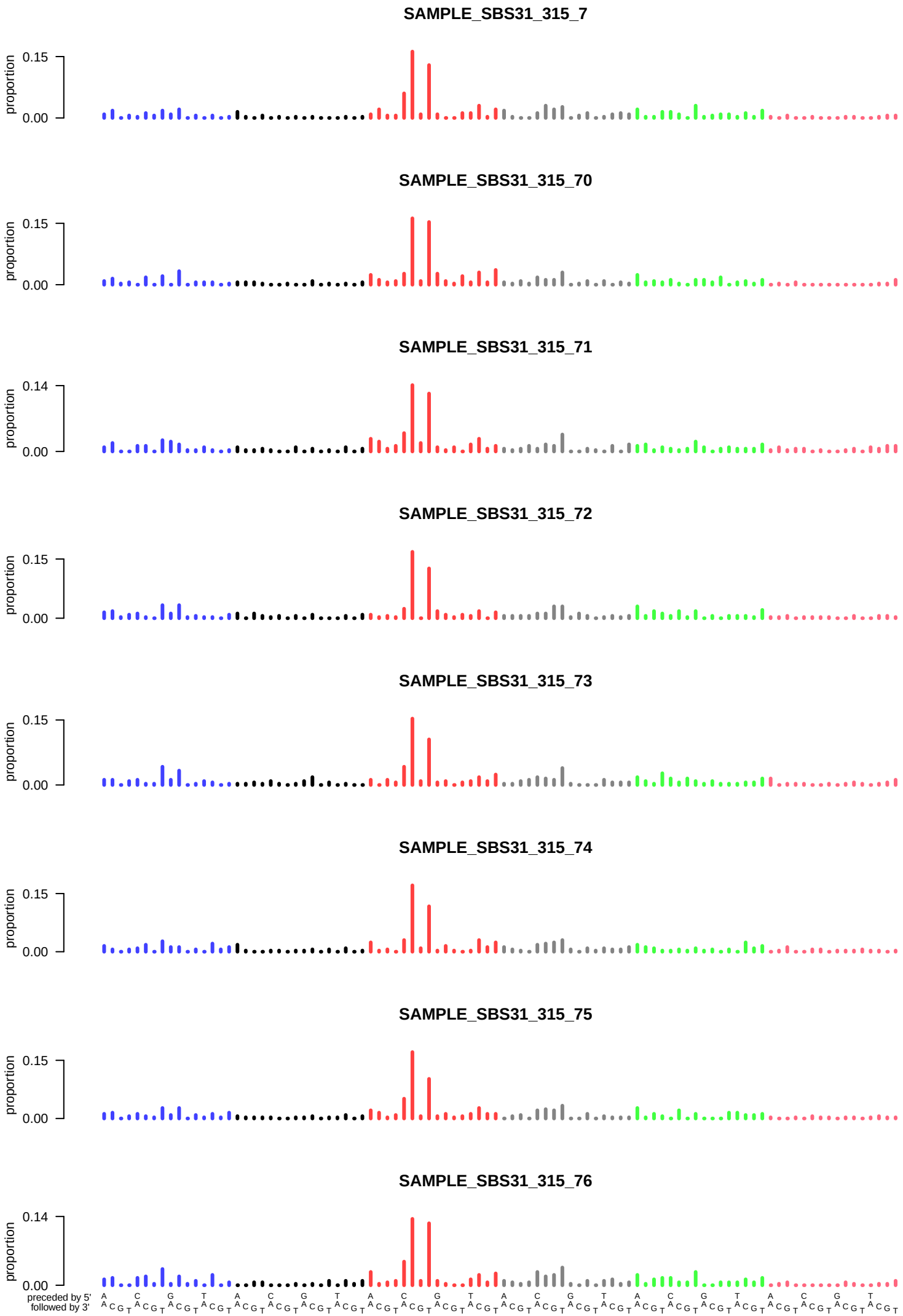
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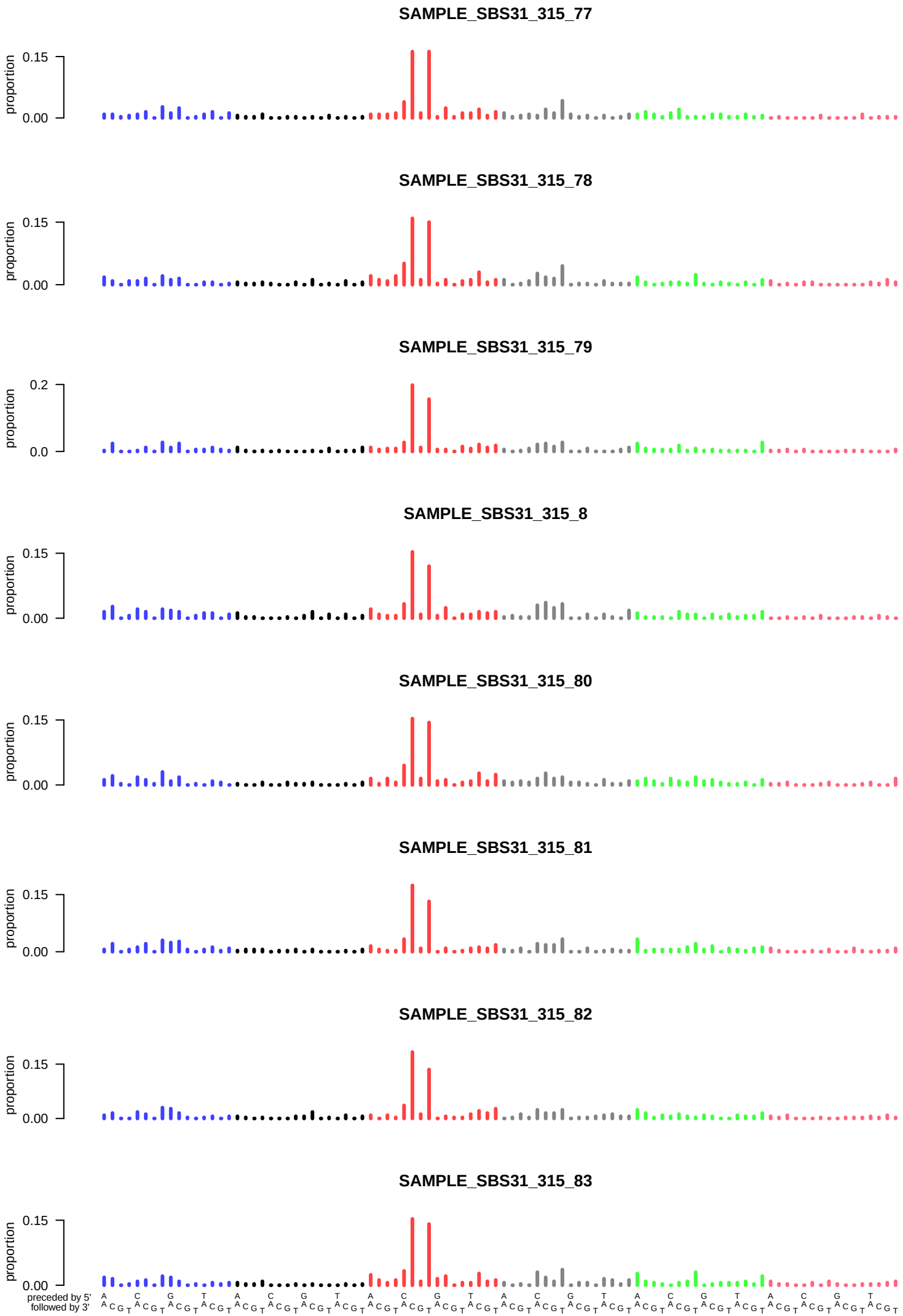
followed by 3'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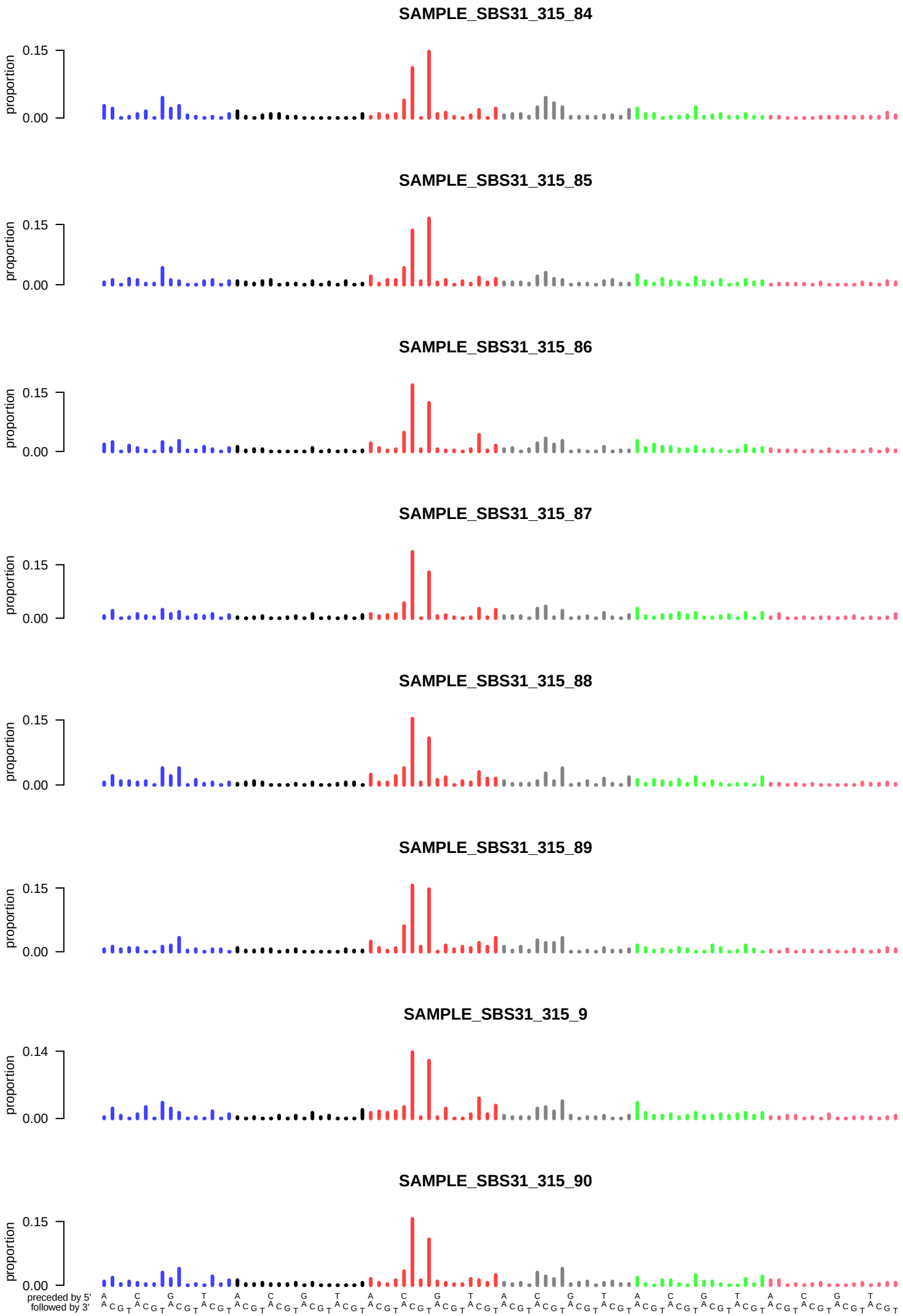
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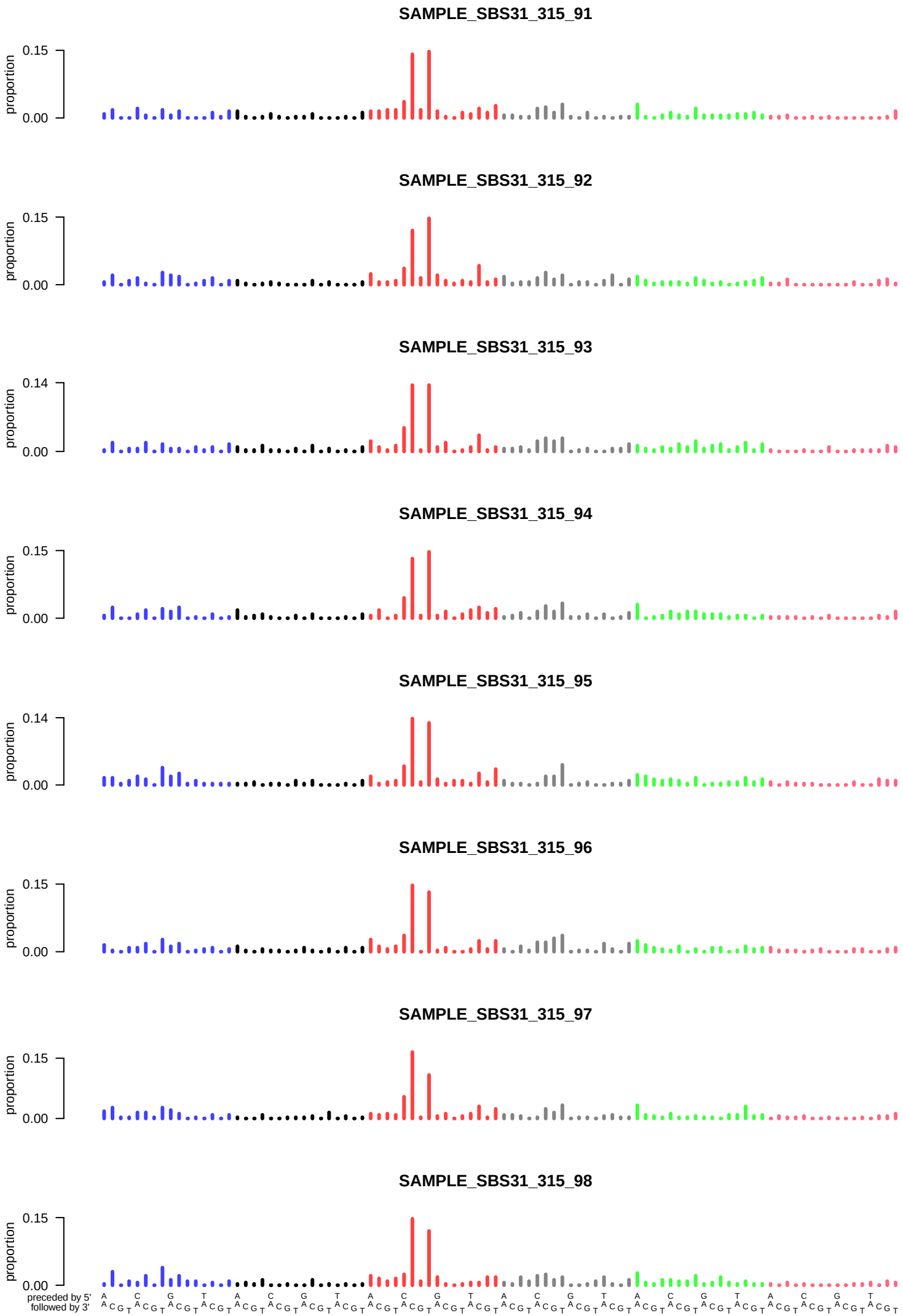
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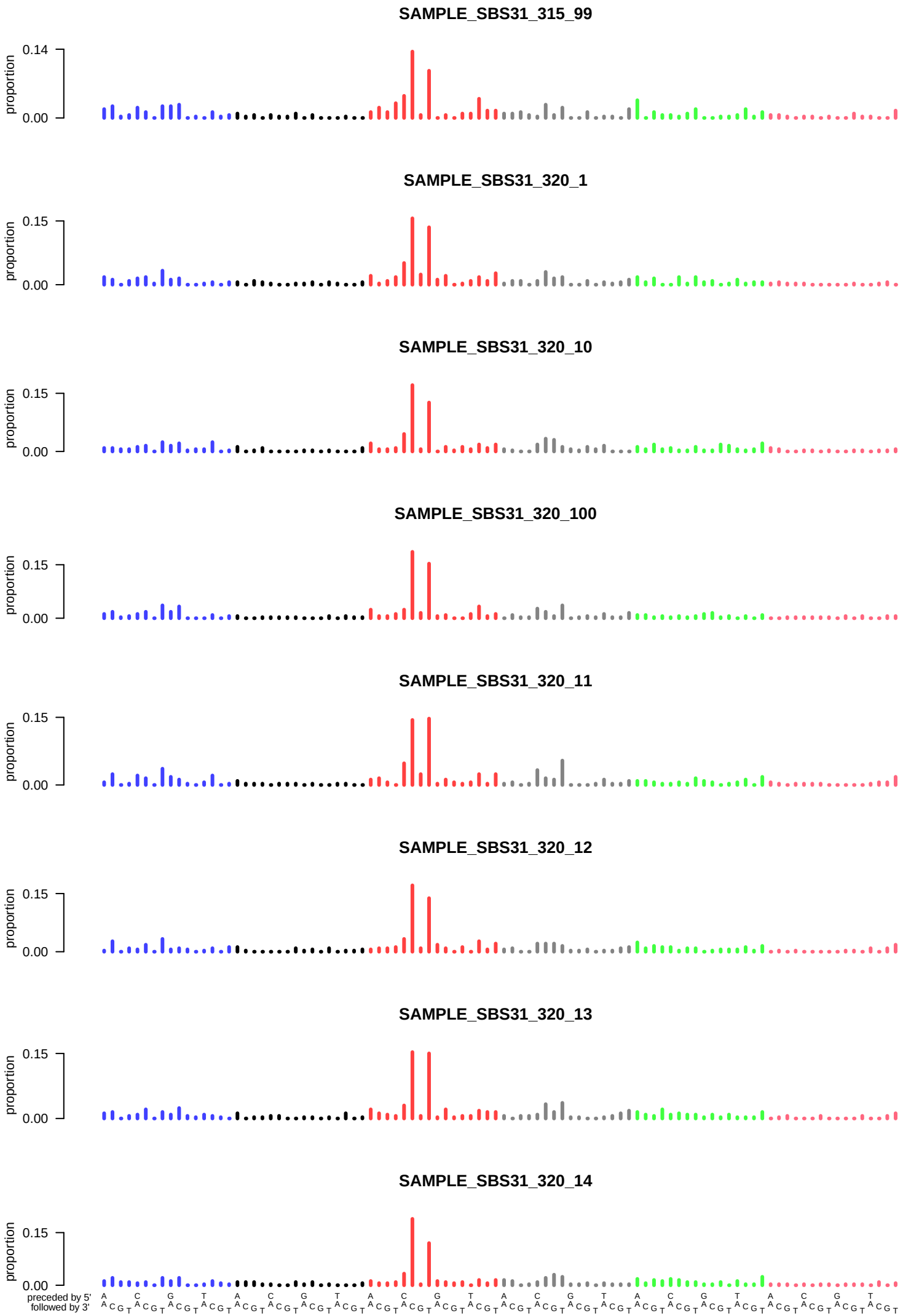
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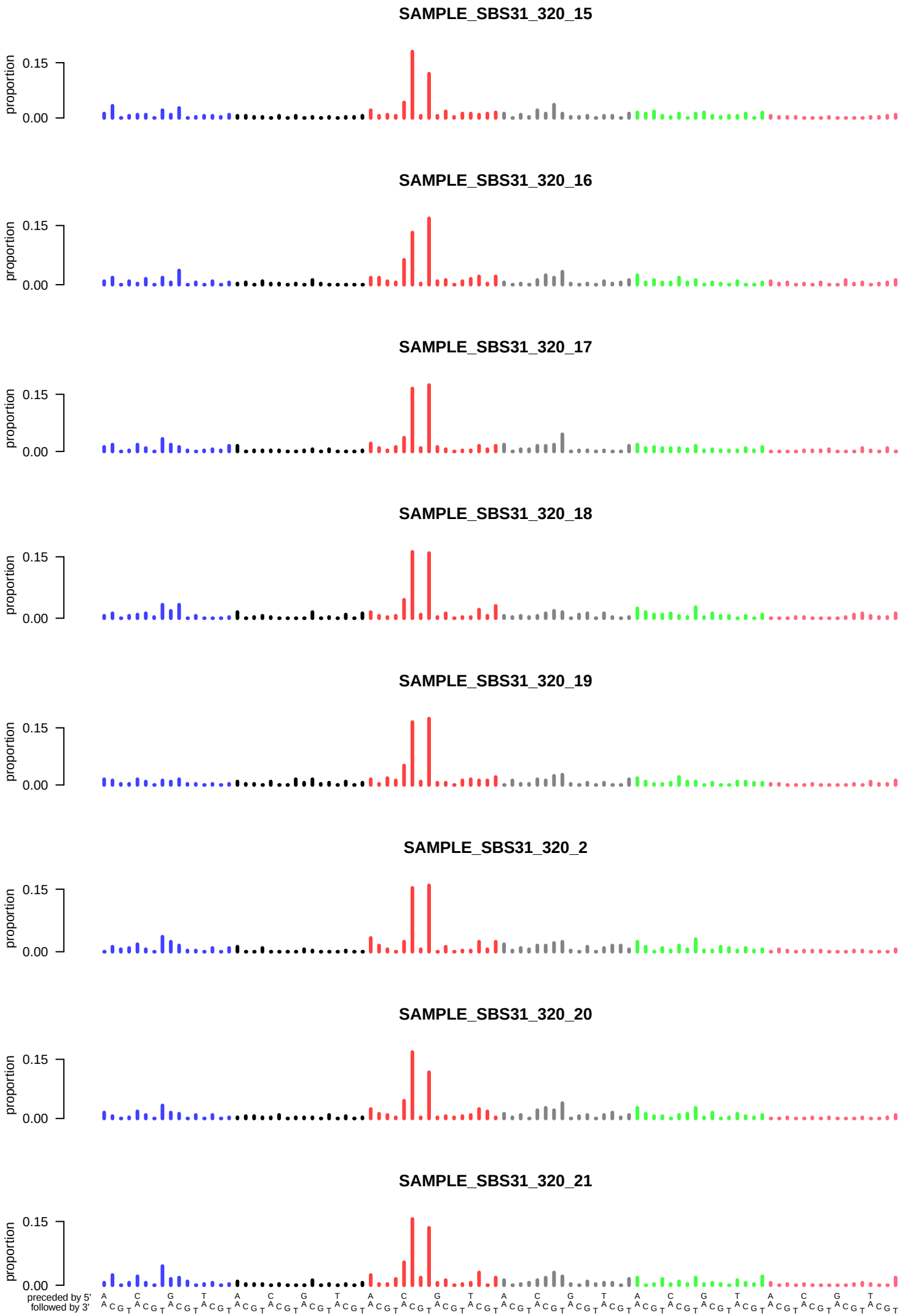
A C G T A C G T A C G T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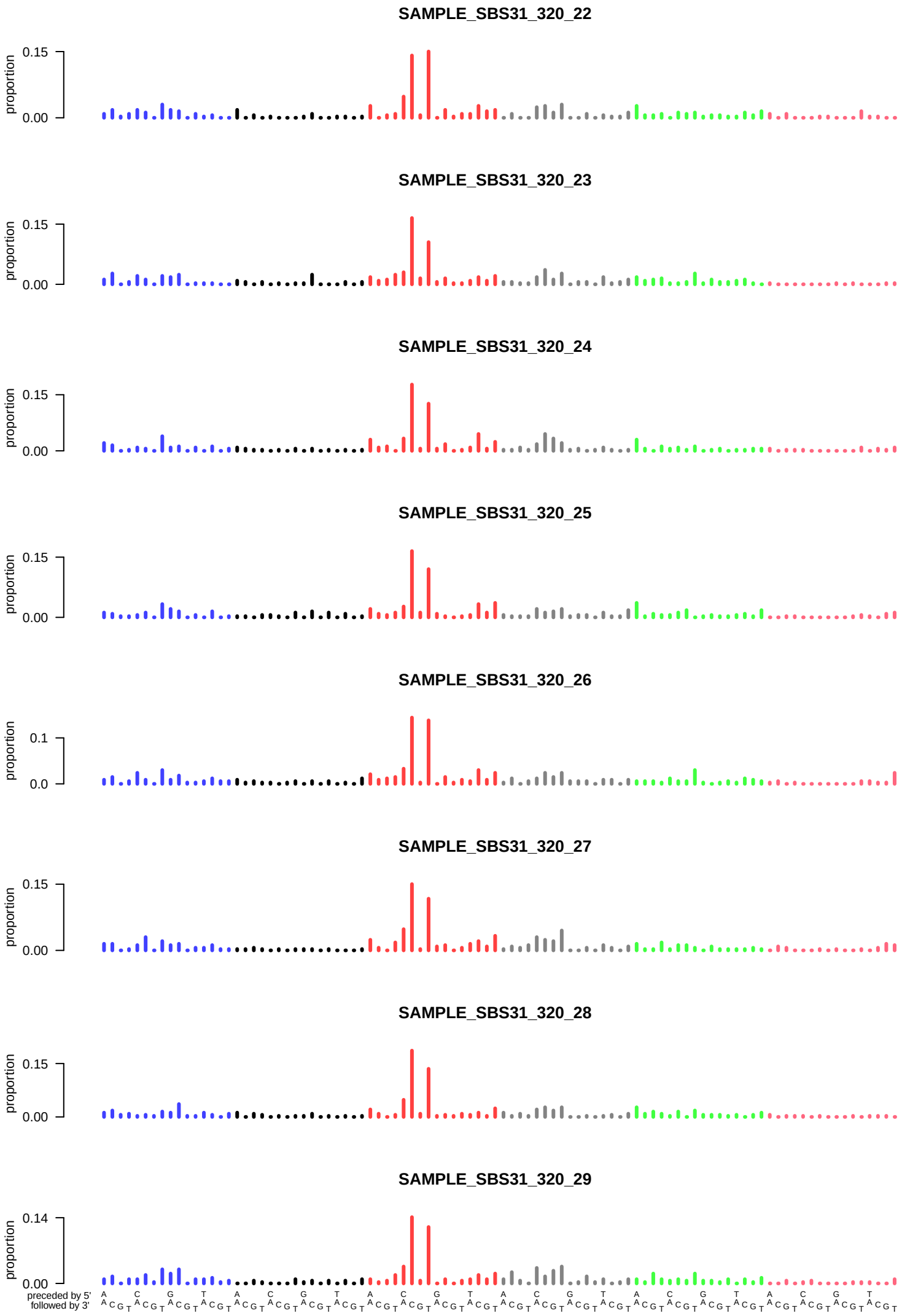
followed by 3'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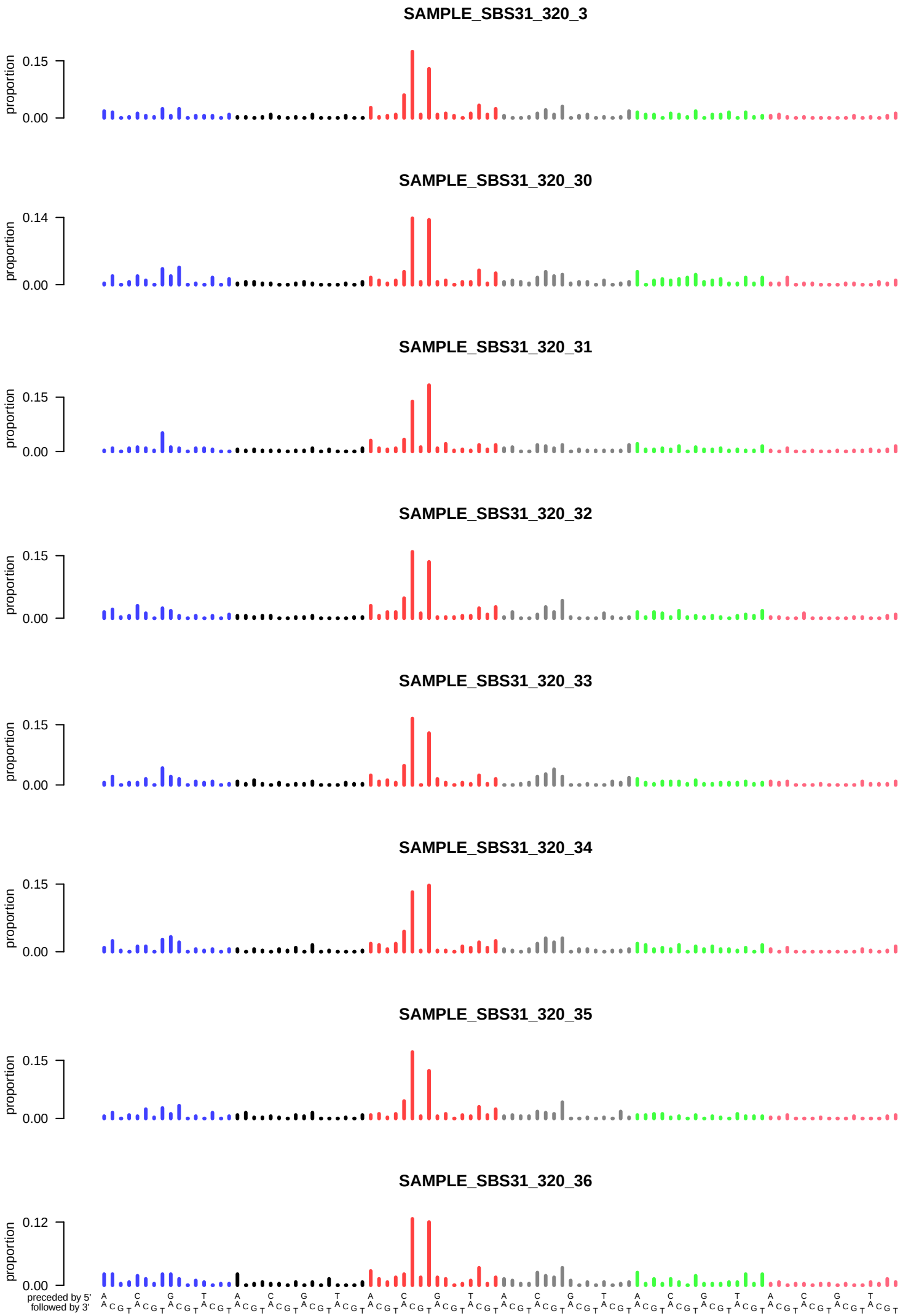
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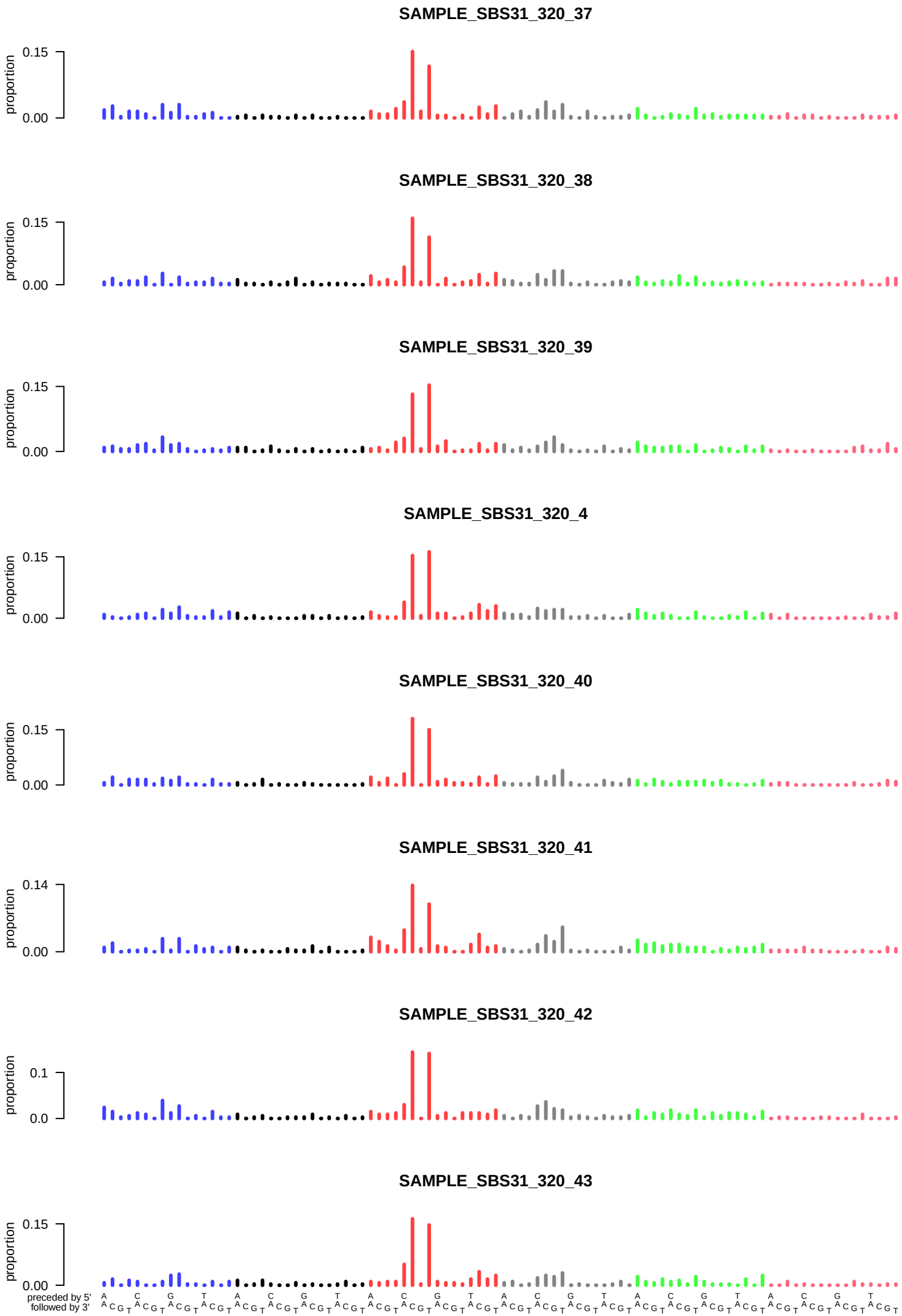
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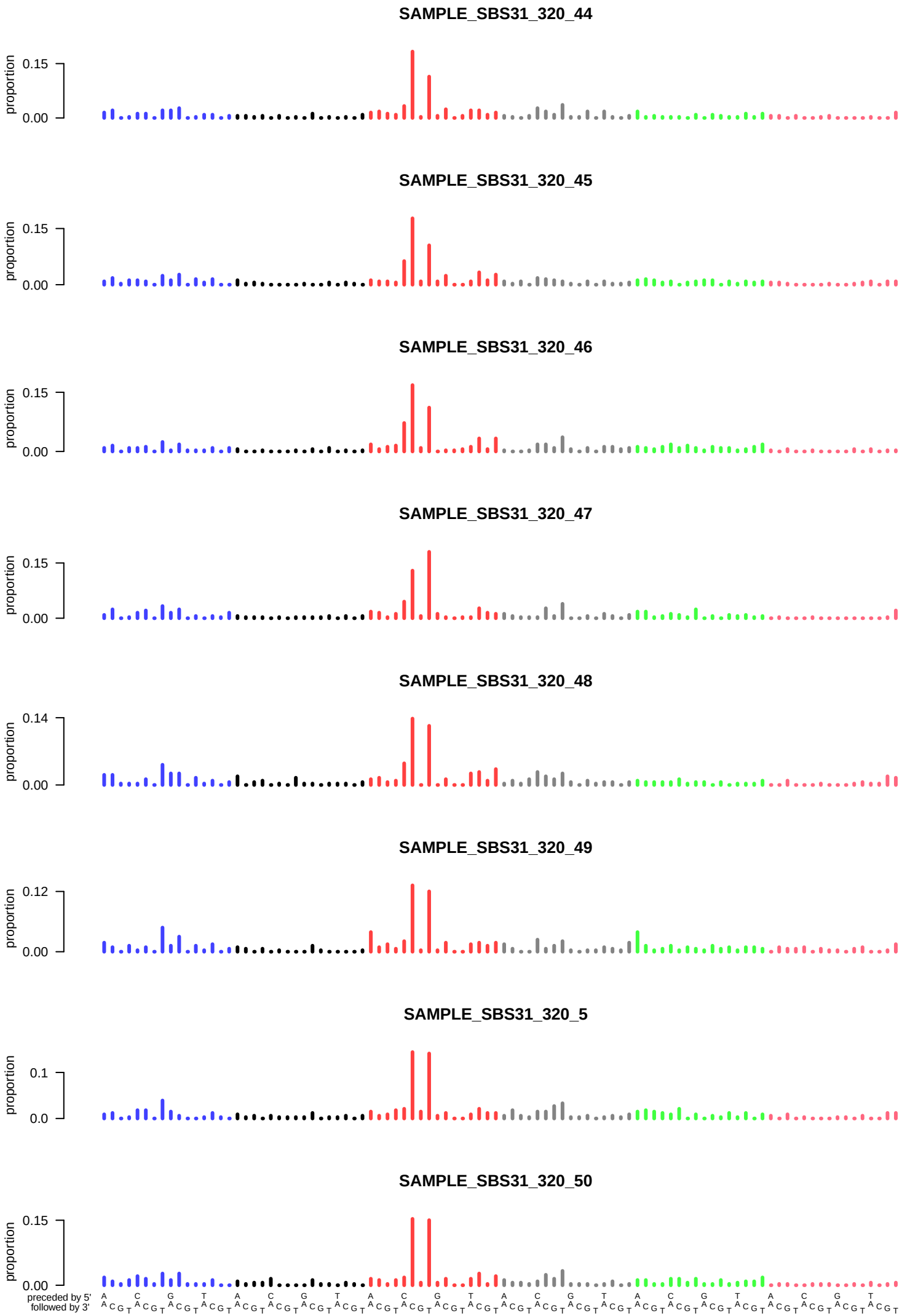
A C G T A C G T A C G T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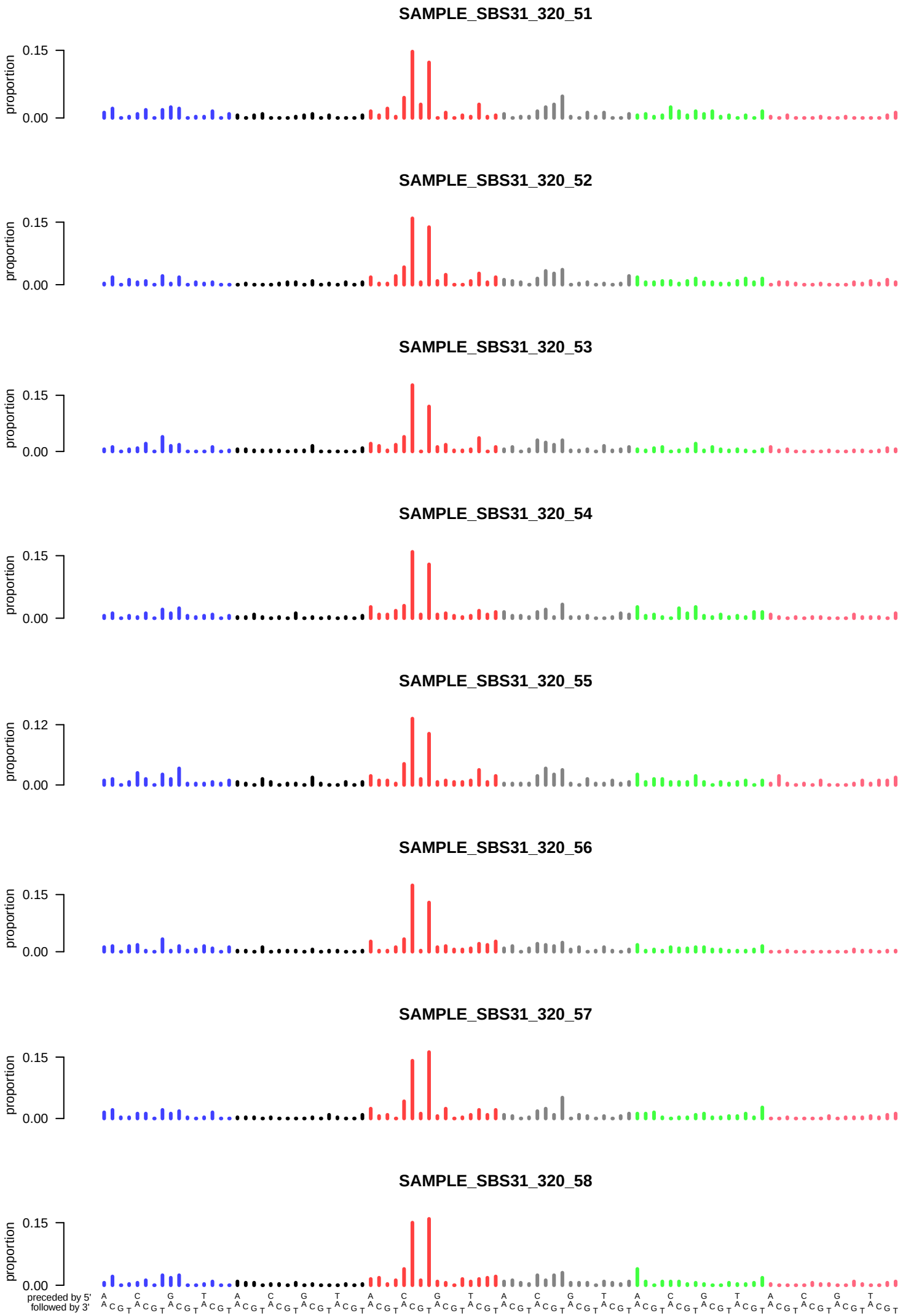
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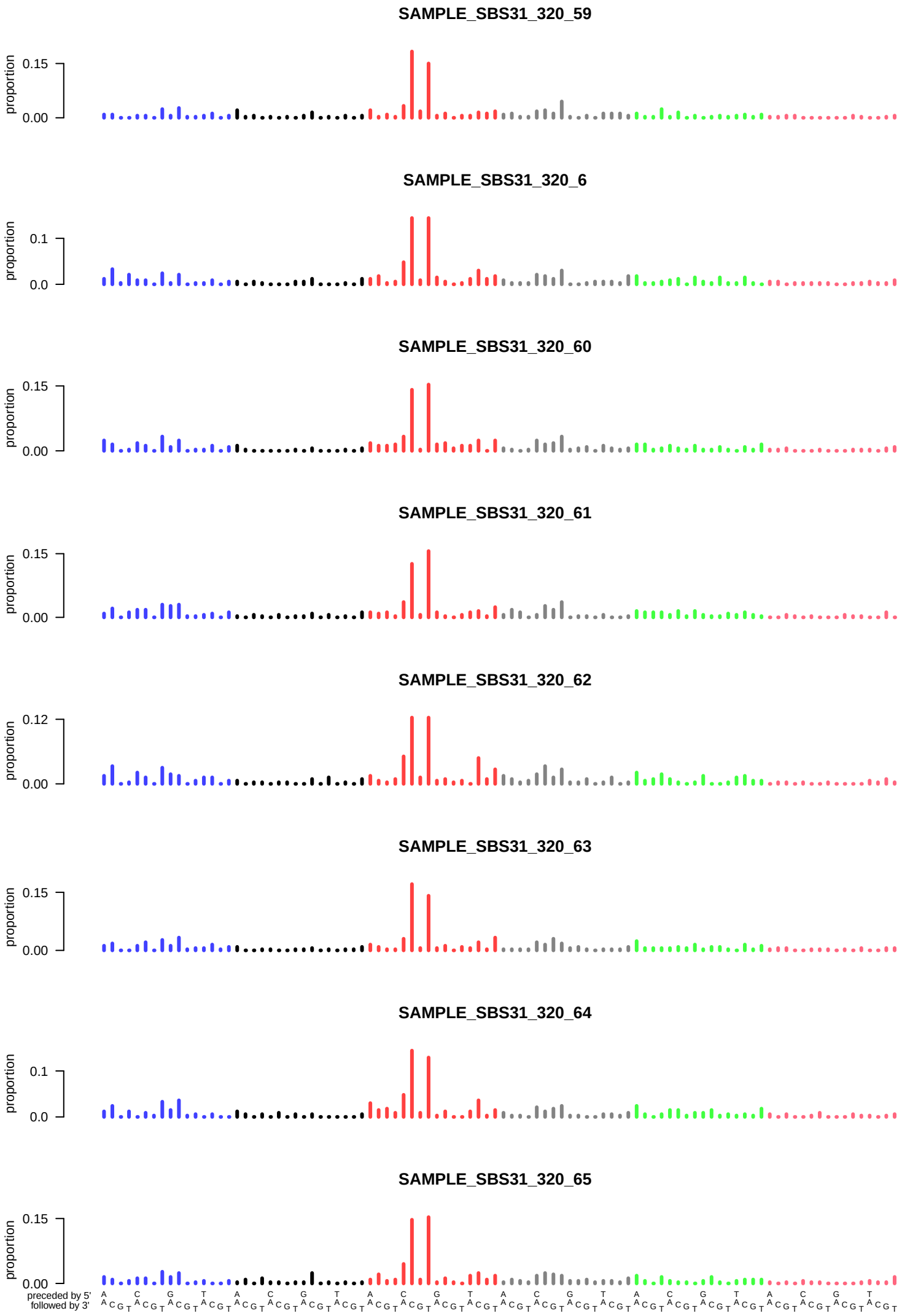
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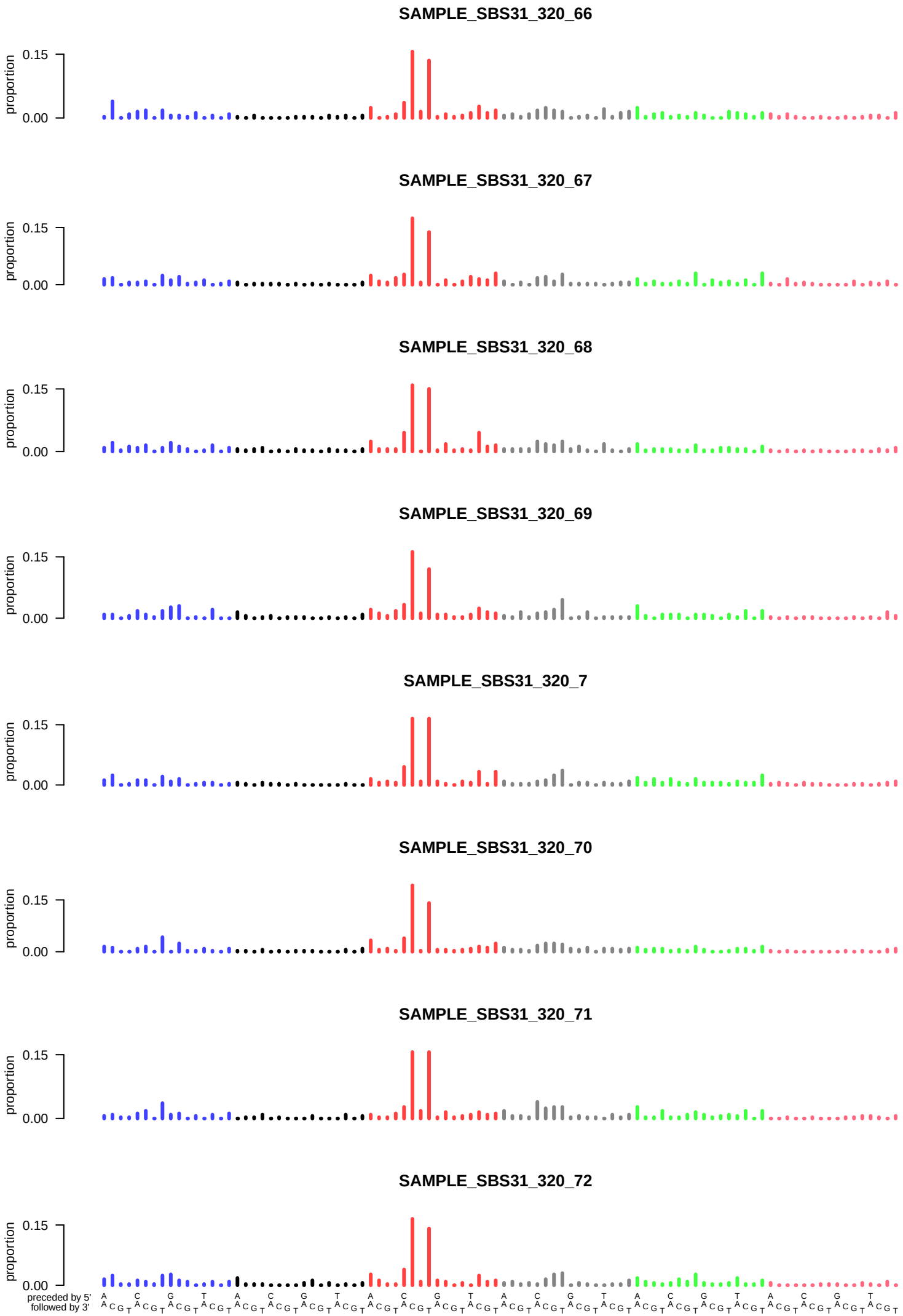
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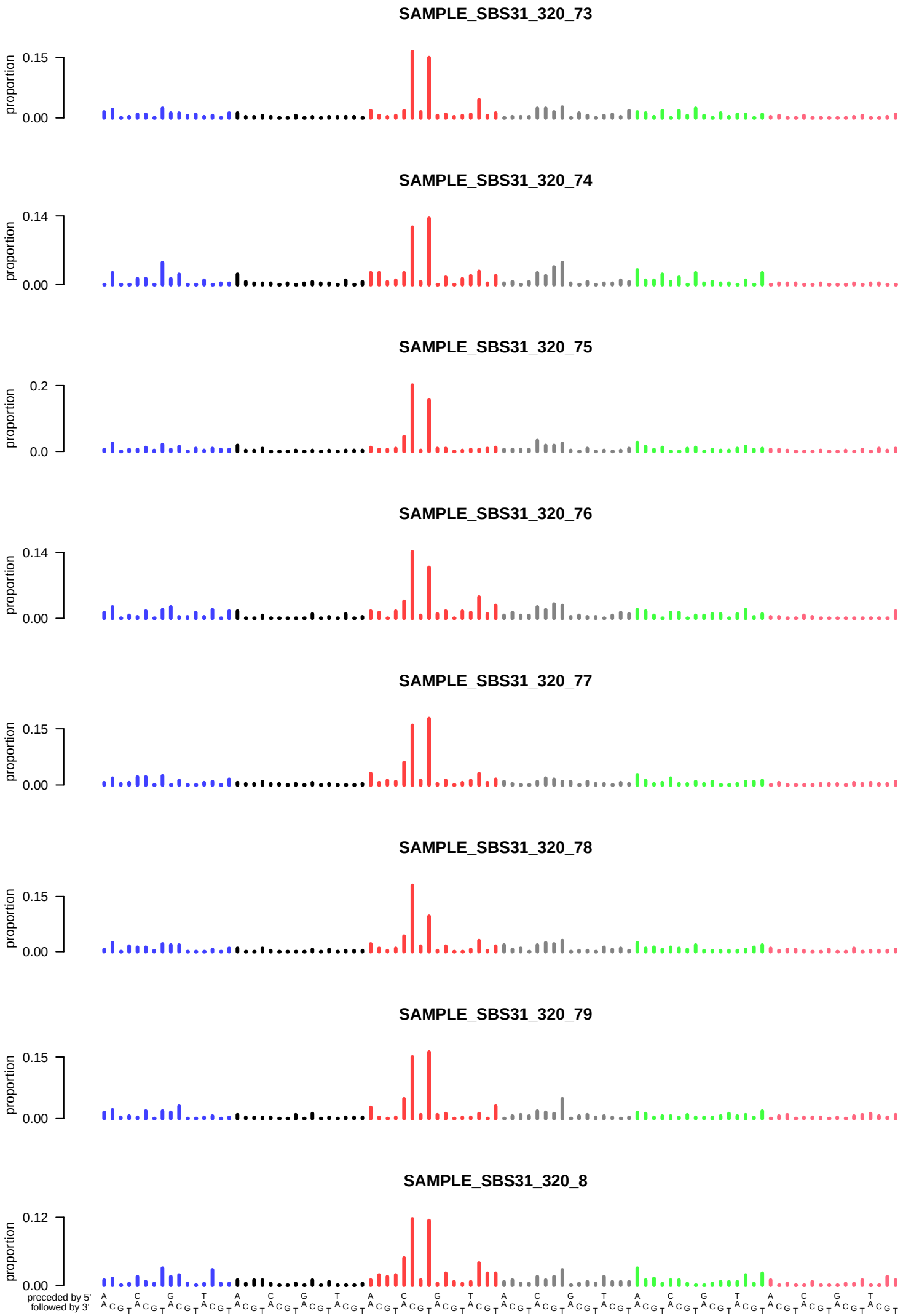
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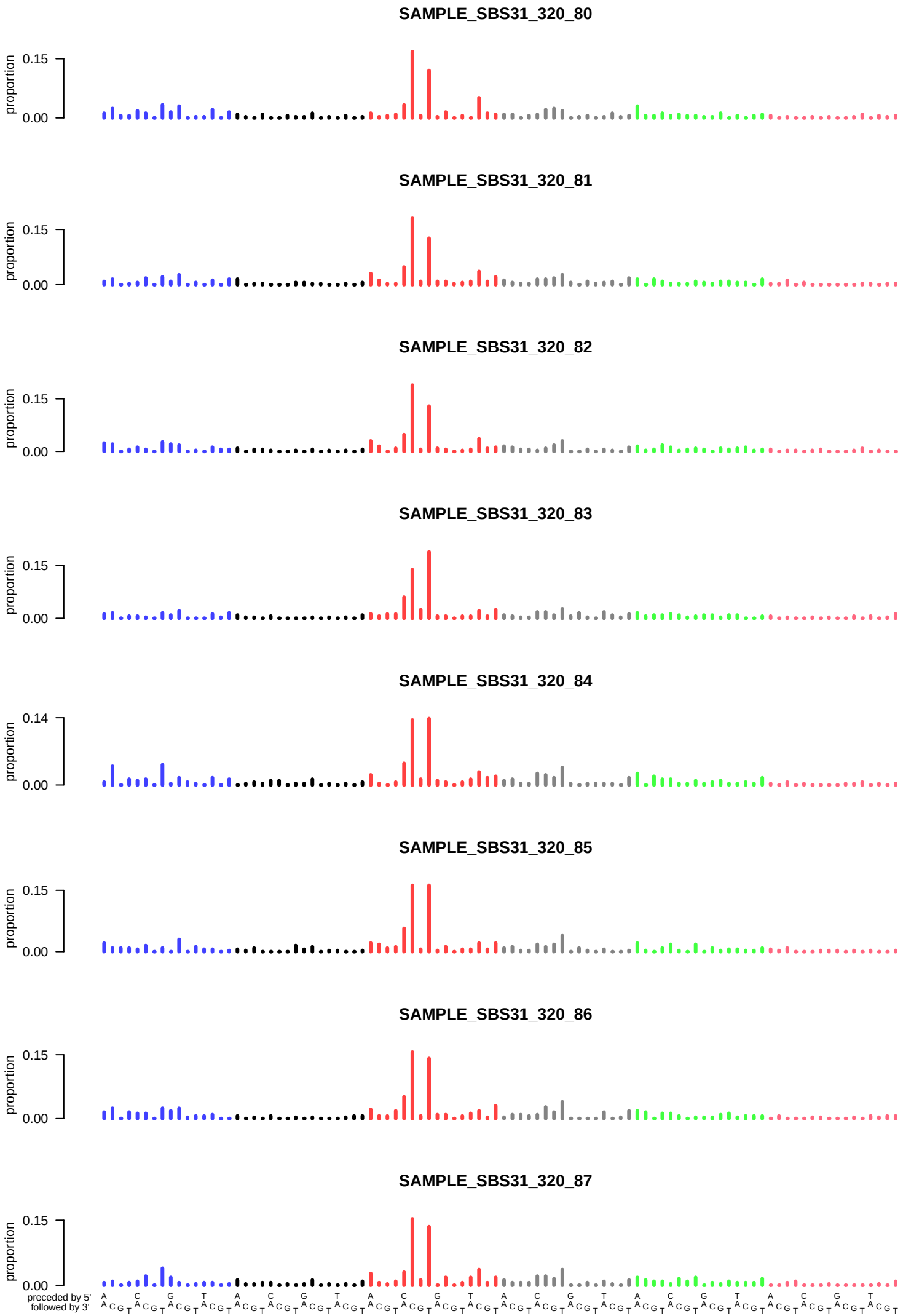
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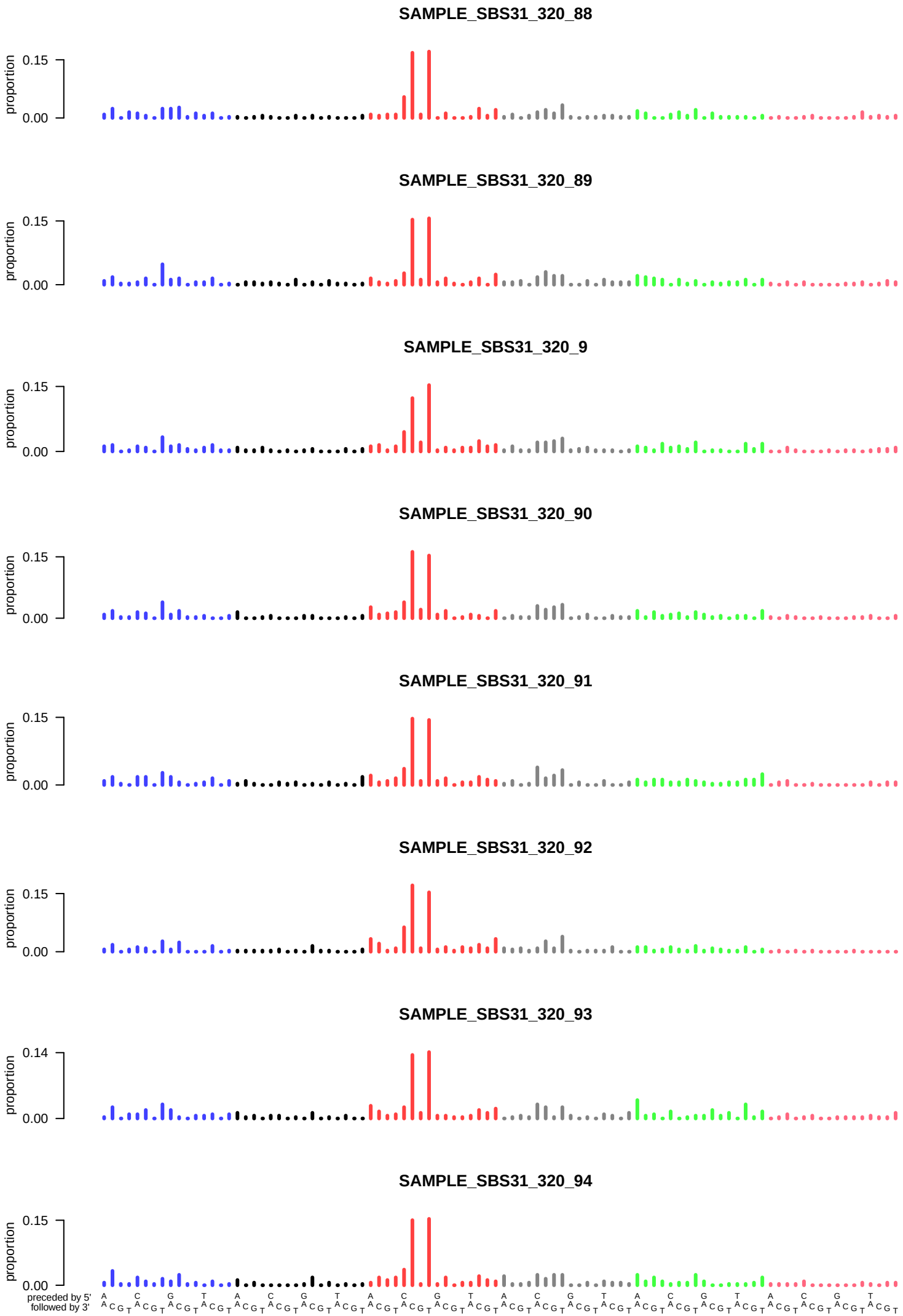
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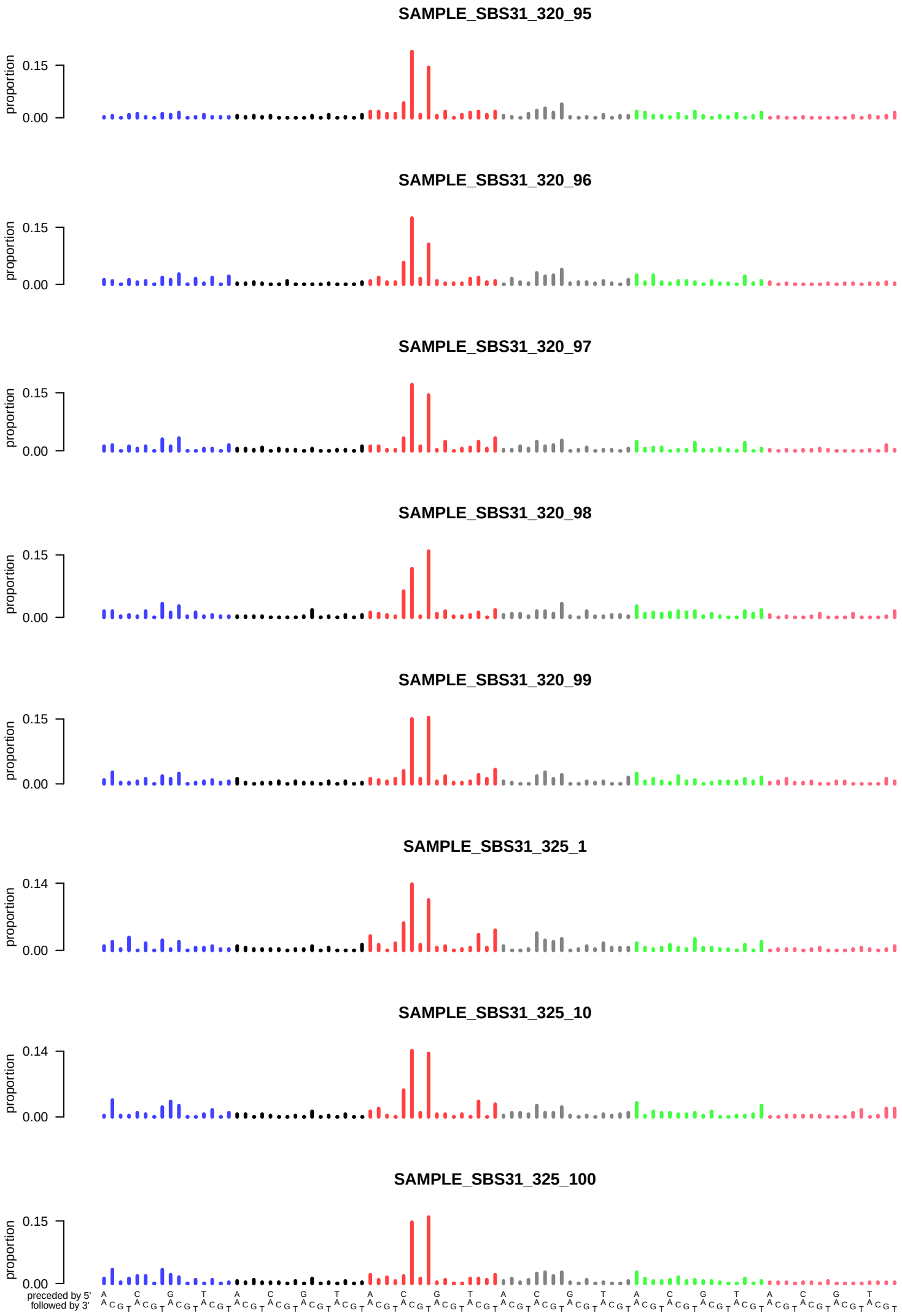
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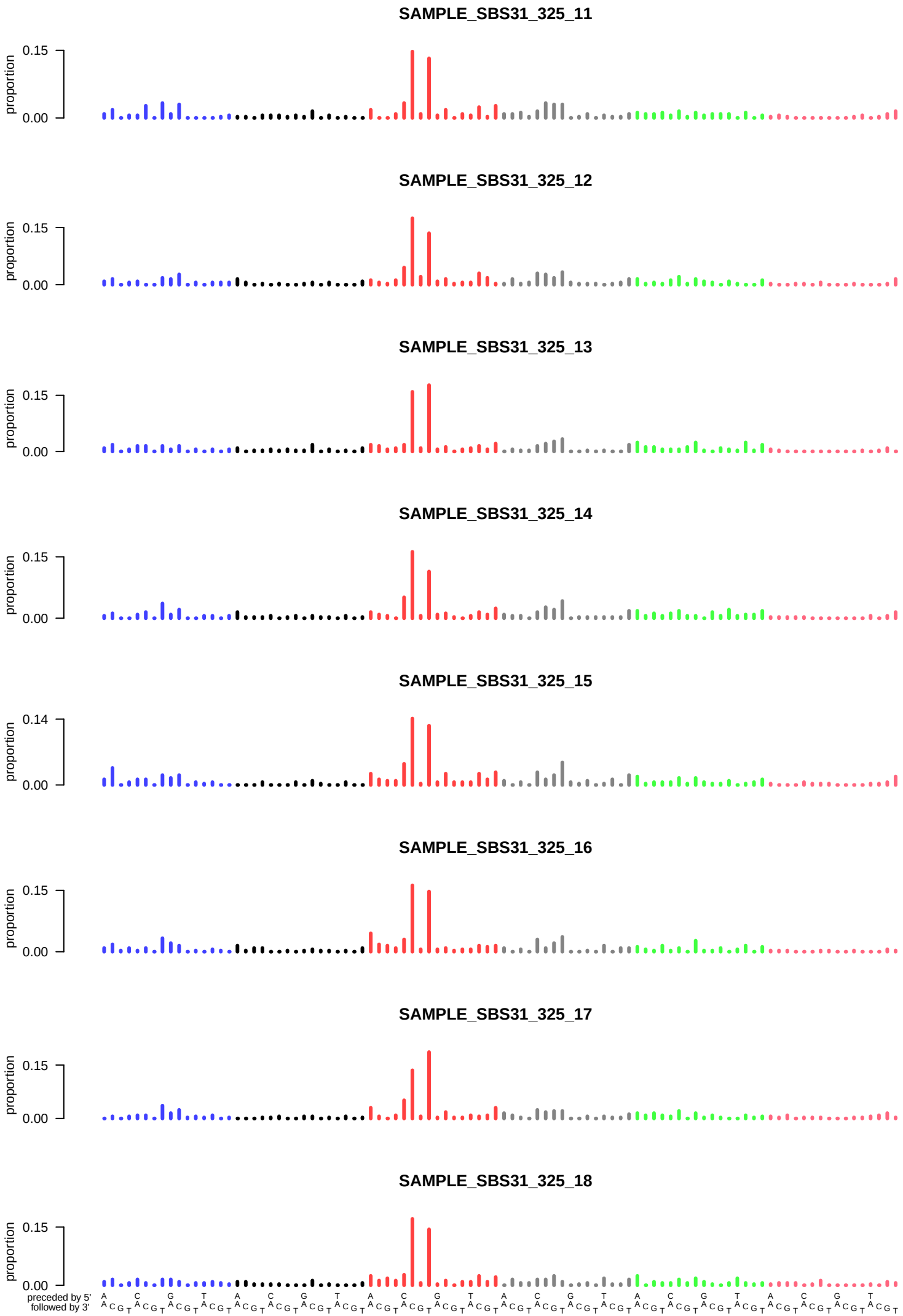
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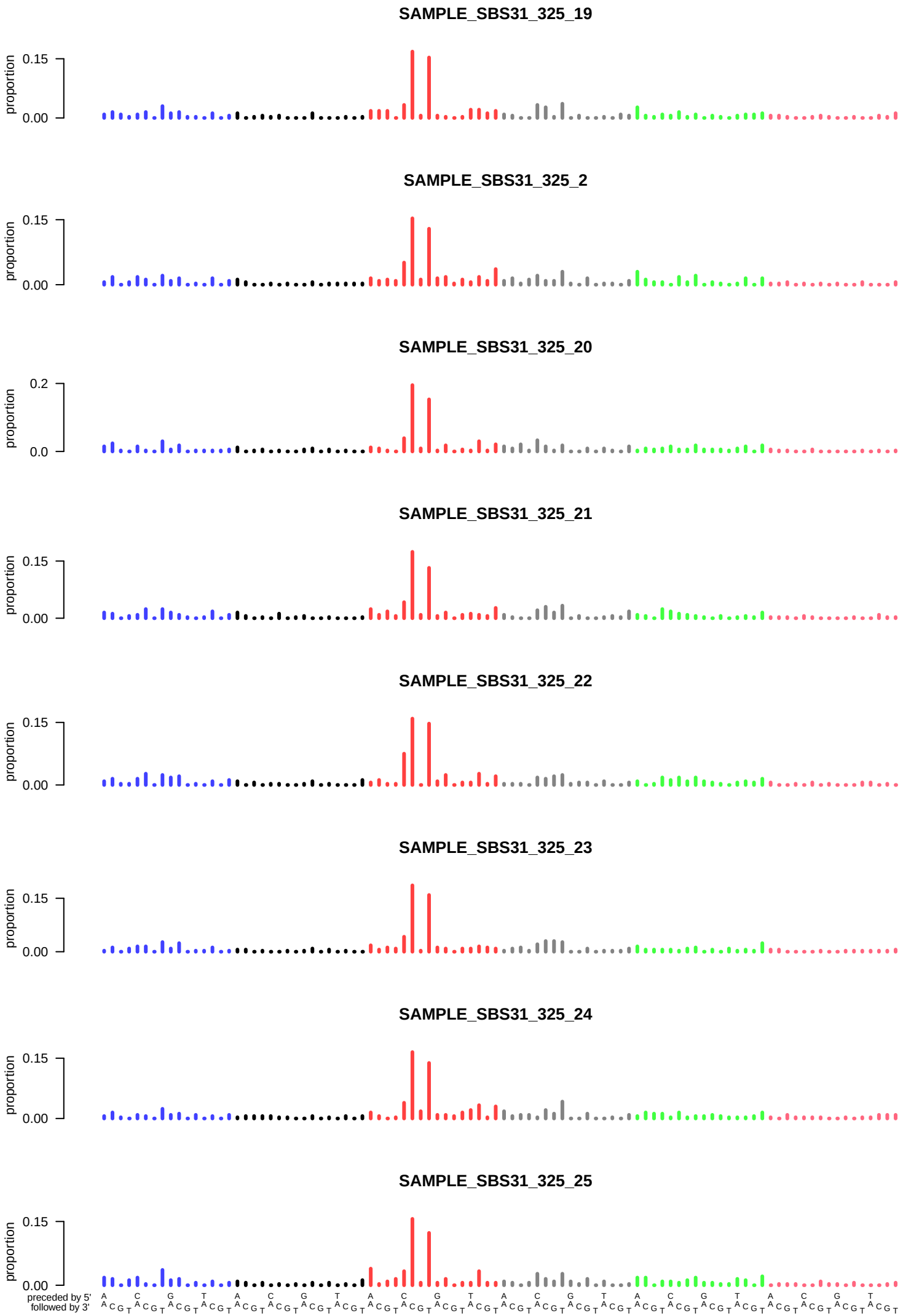
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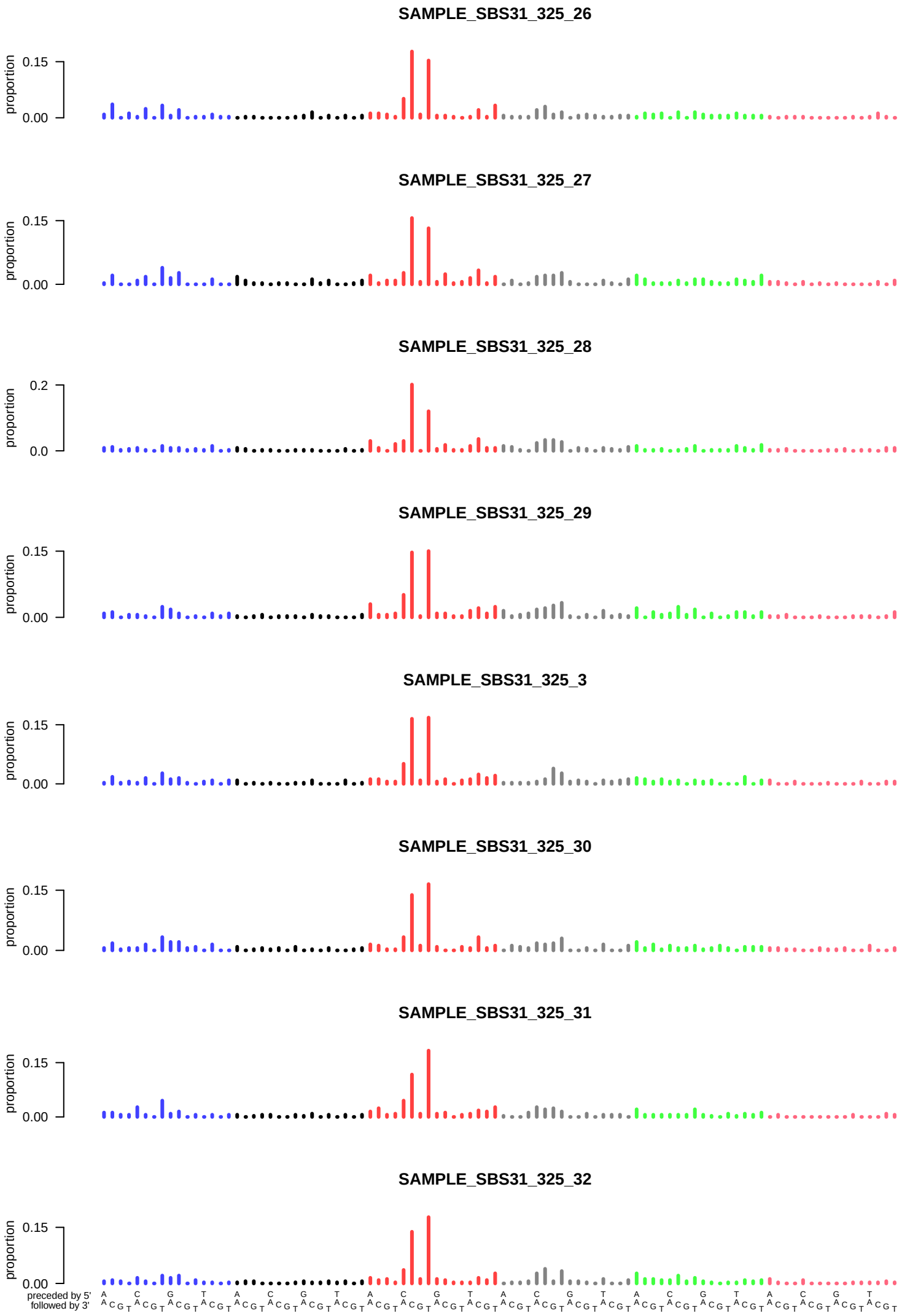
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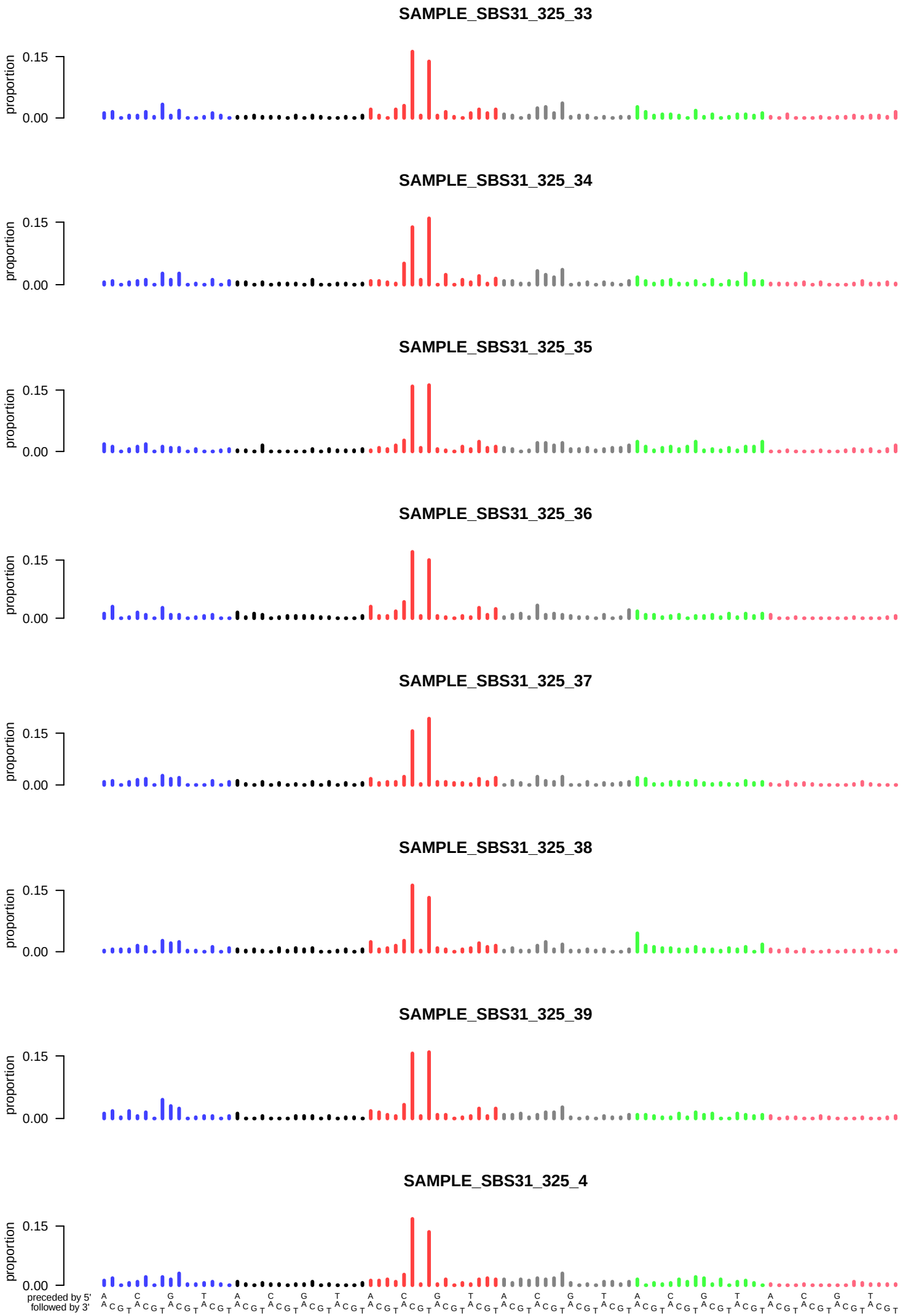
A C G T A C G T A C G T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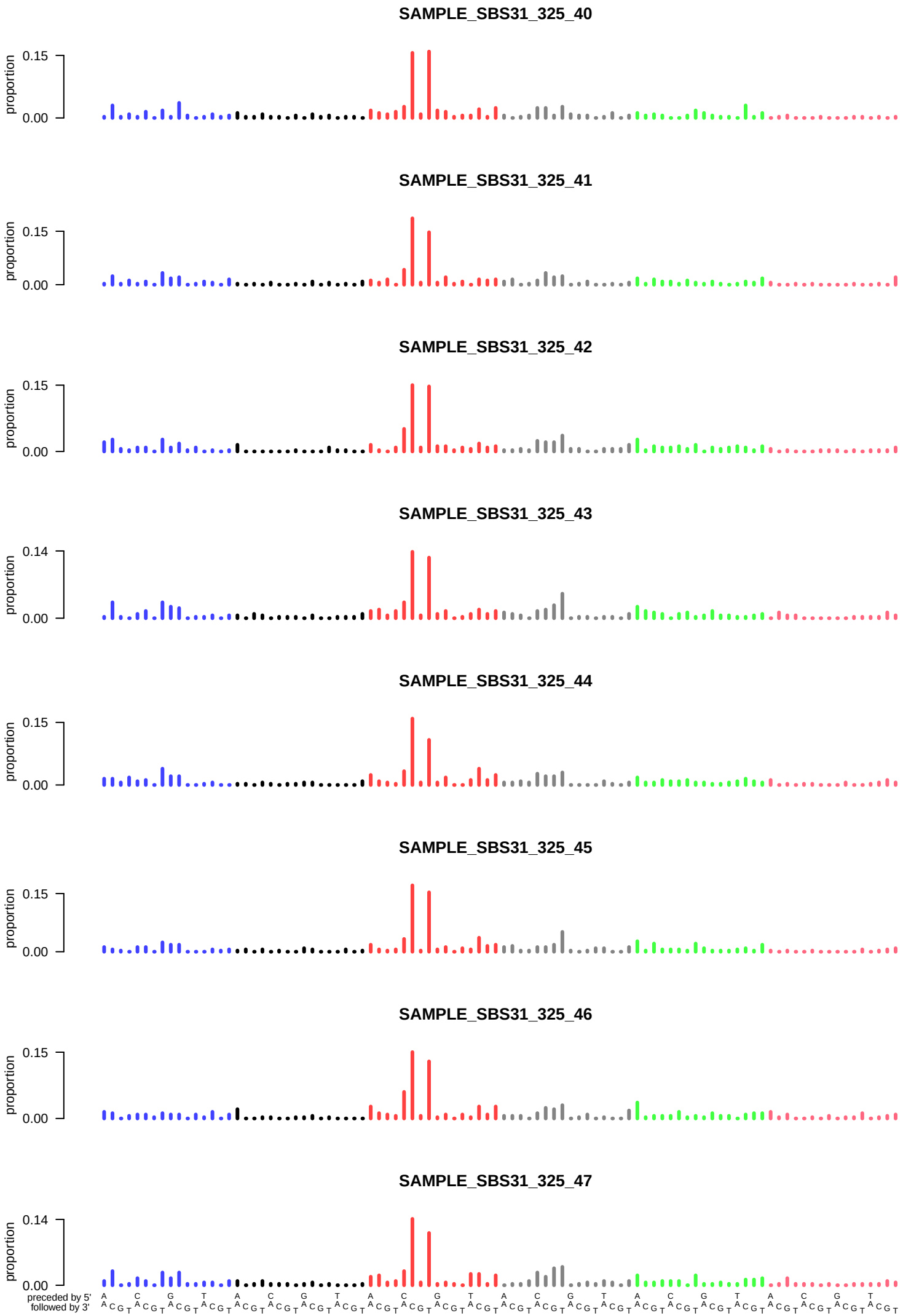
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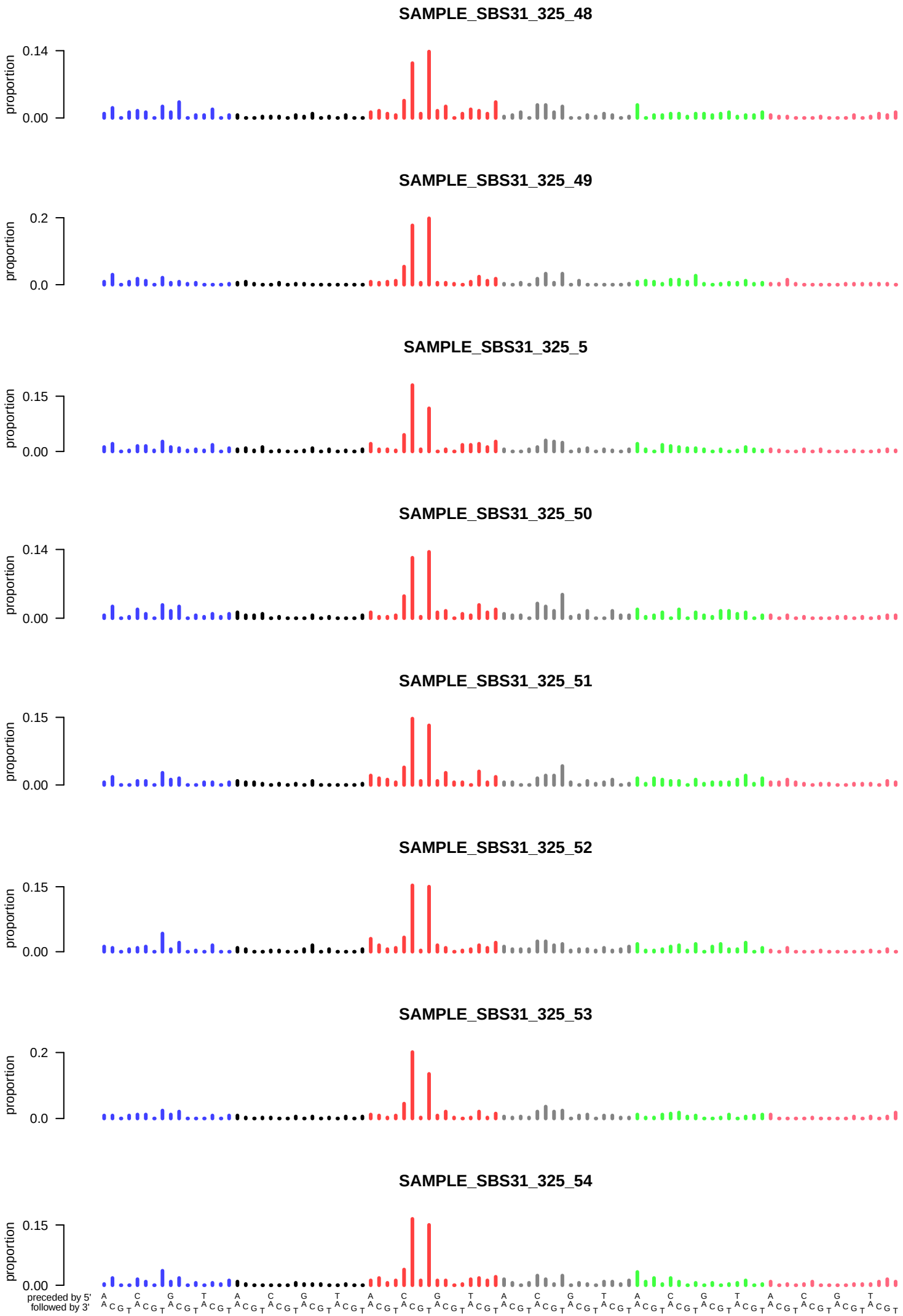
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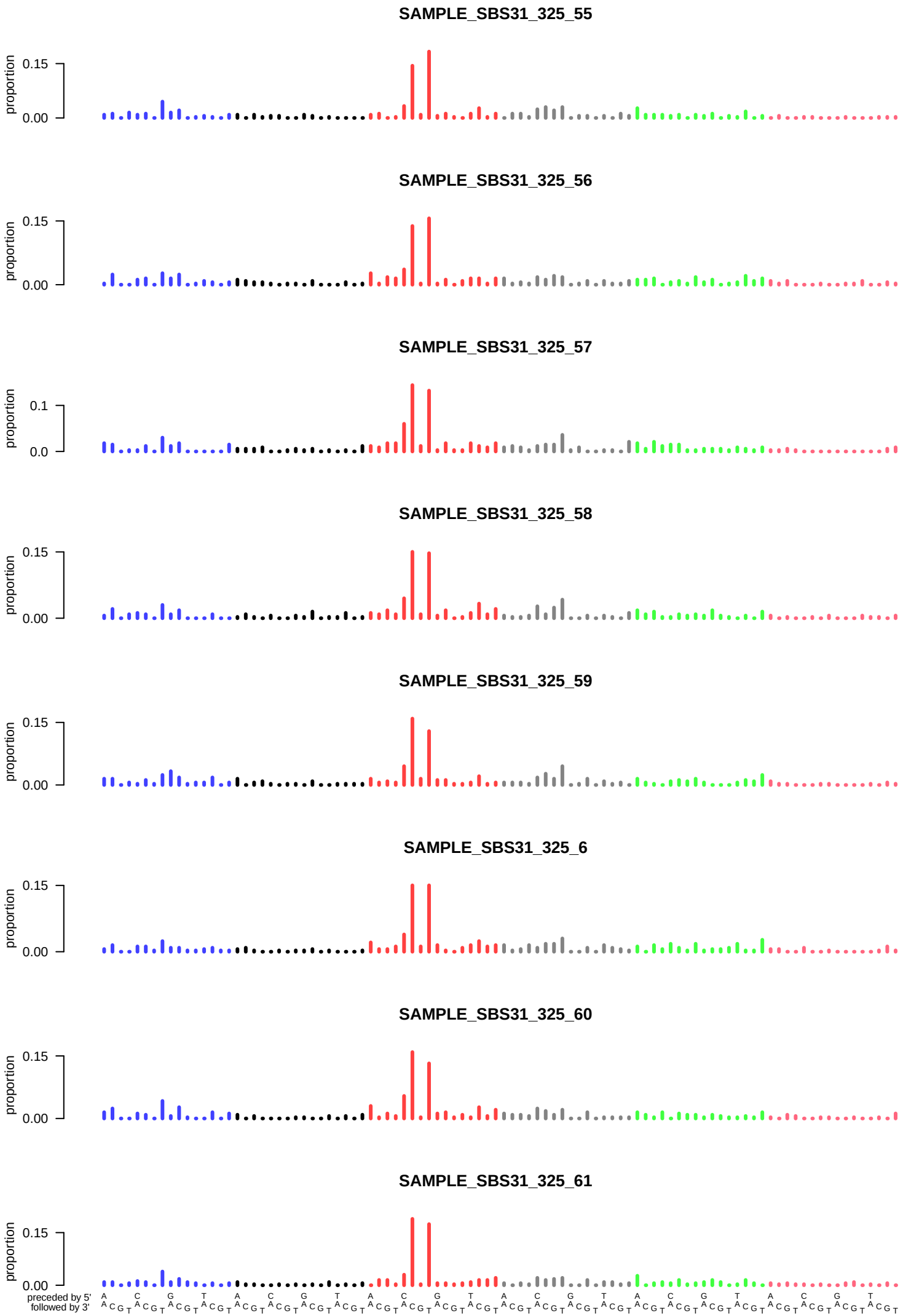
followed by 3'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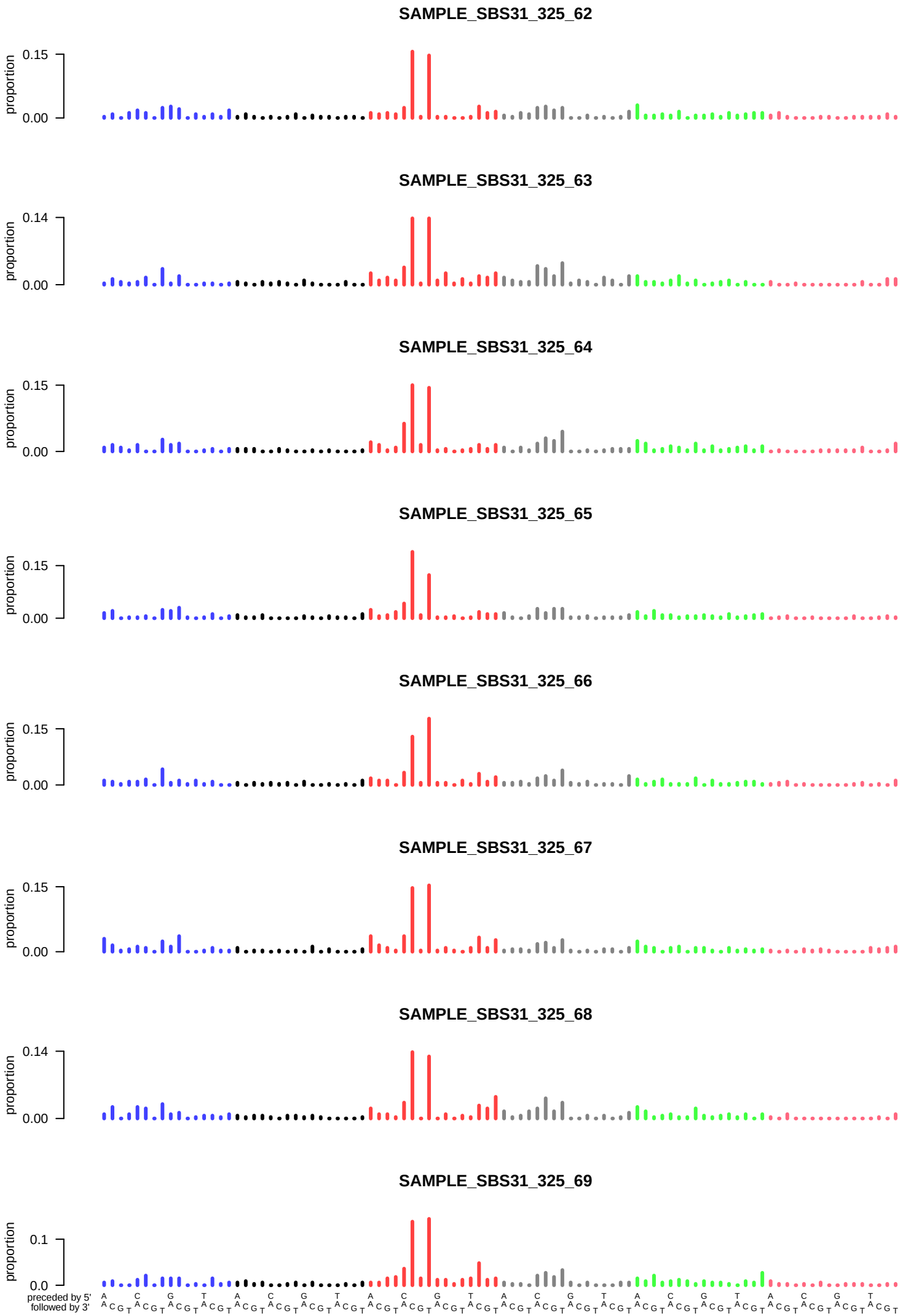
followed by 3'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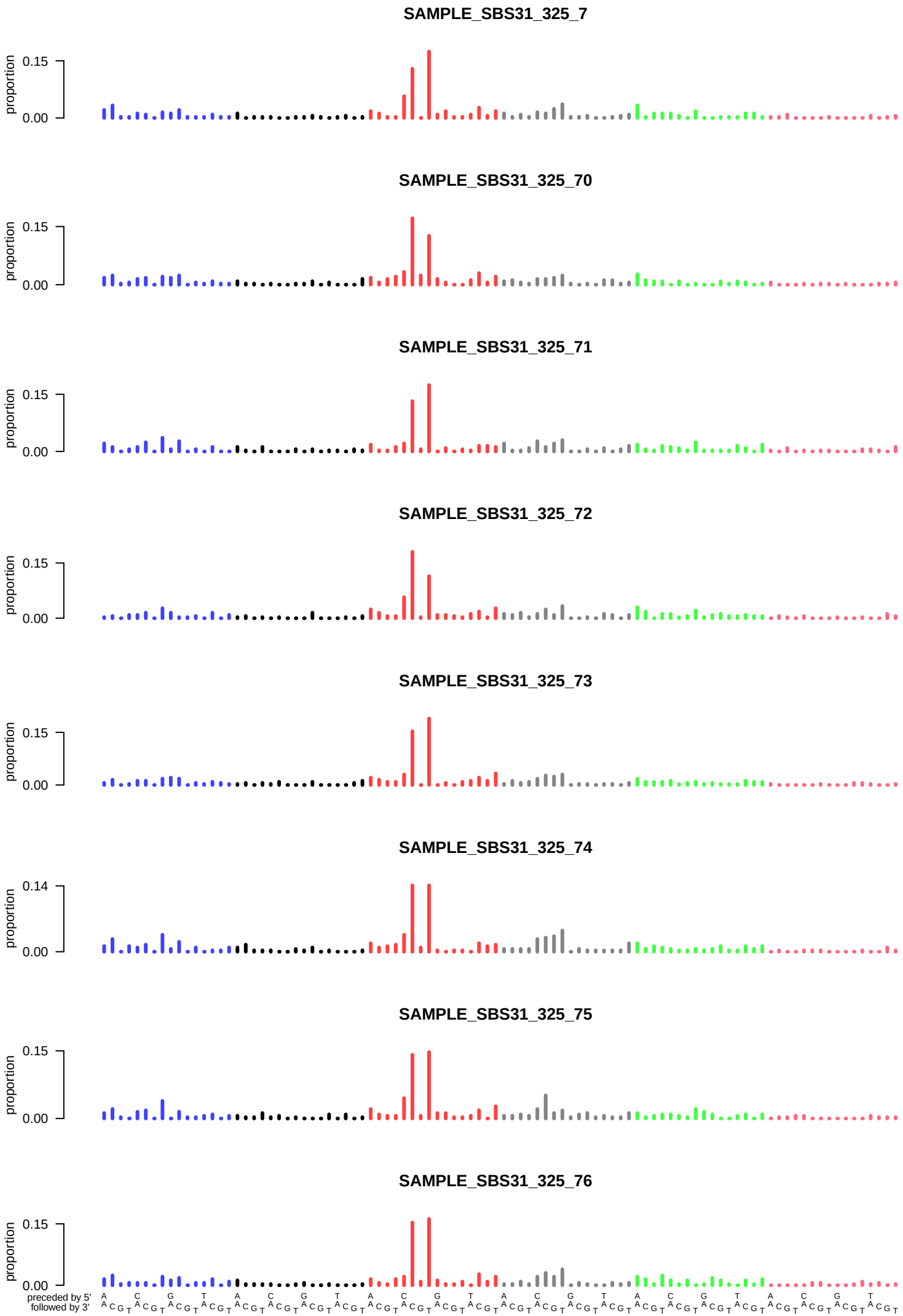
followed by 3'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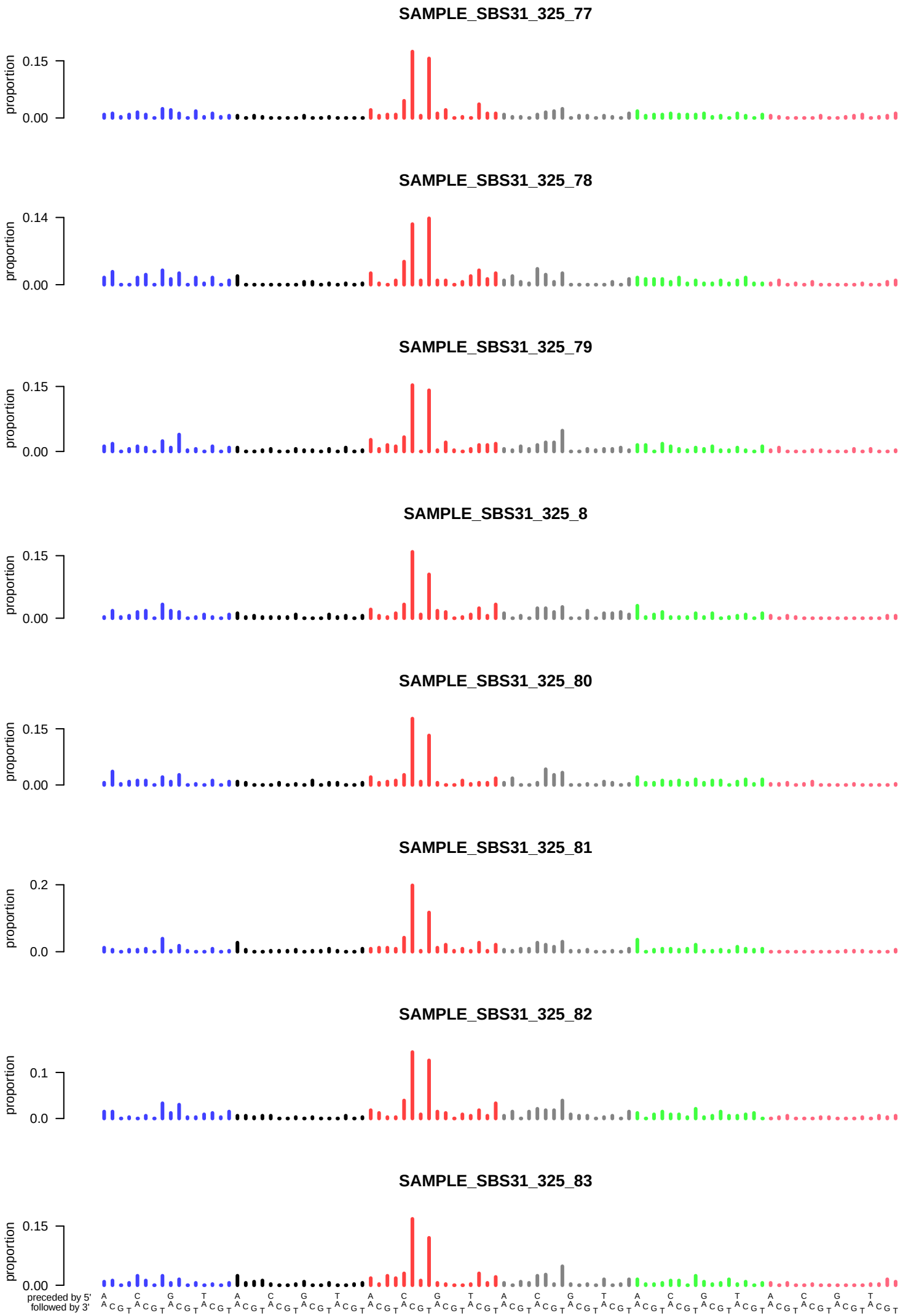
followed by 3'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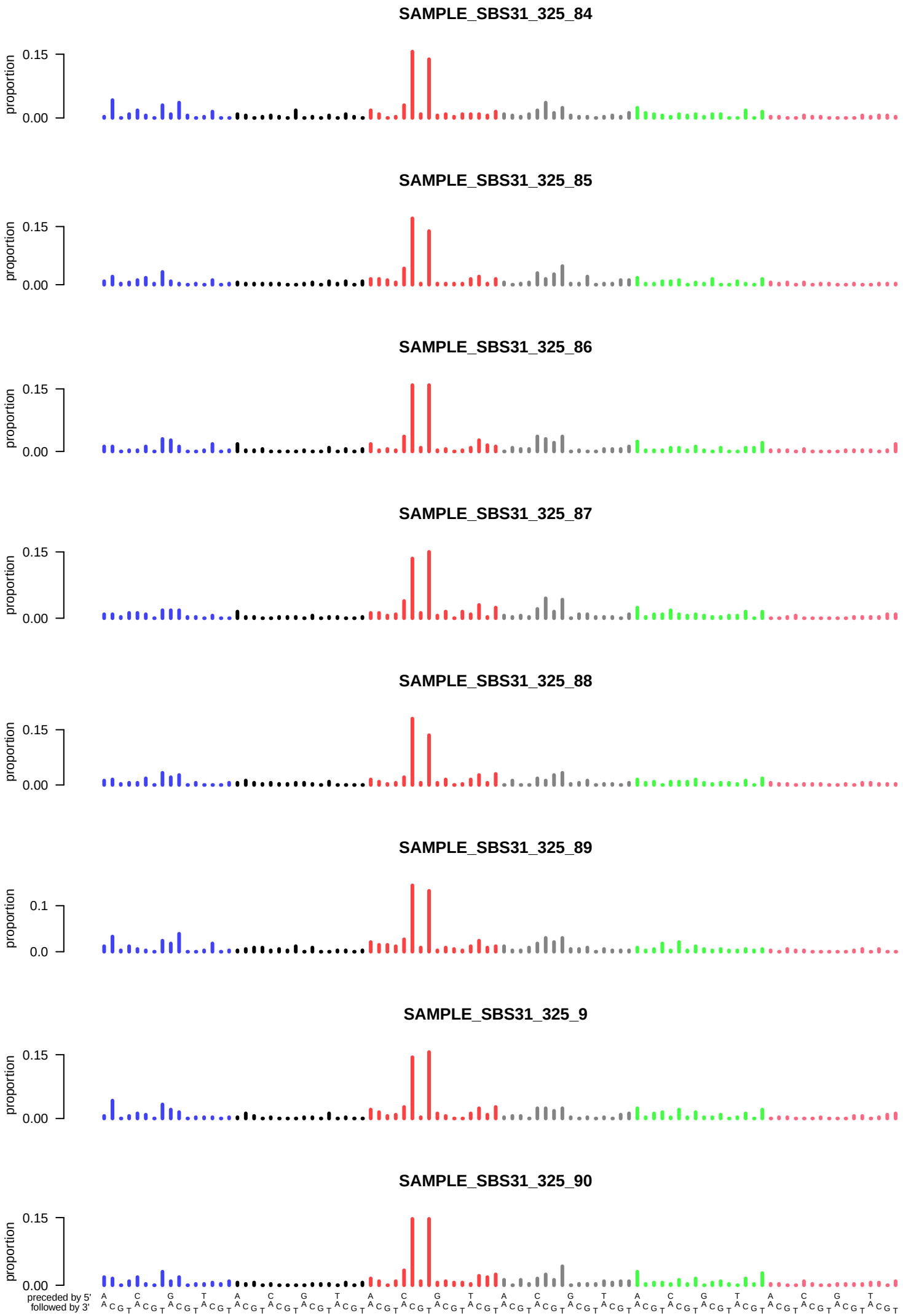
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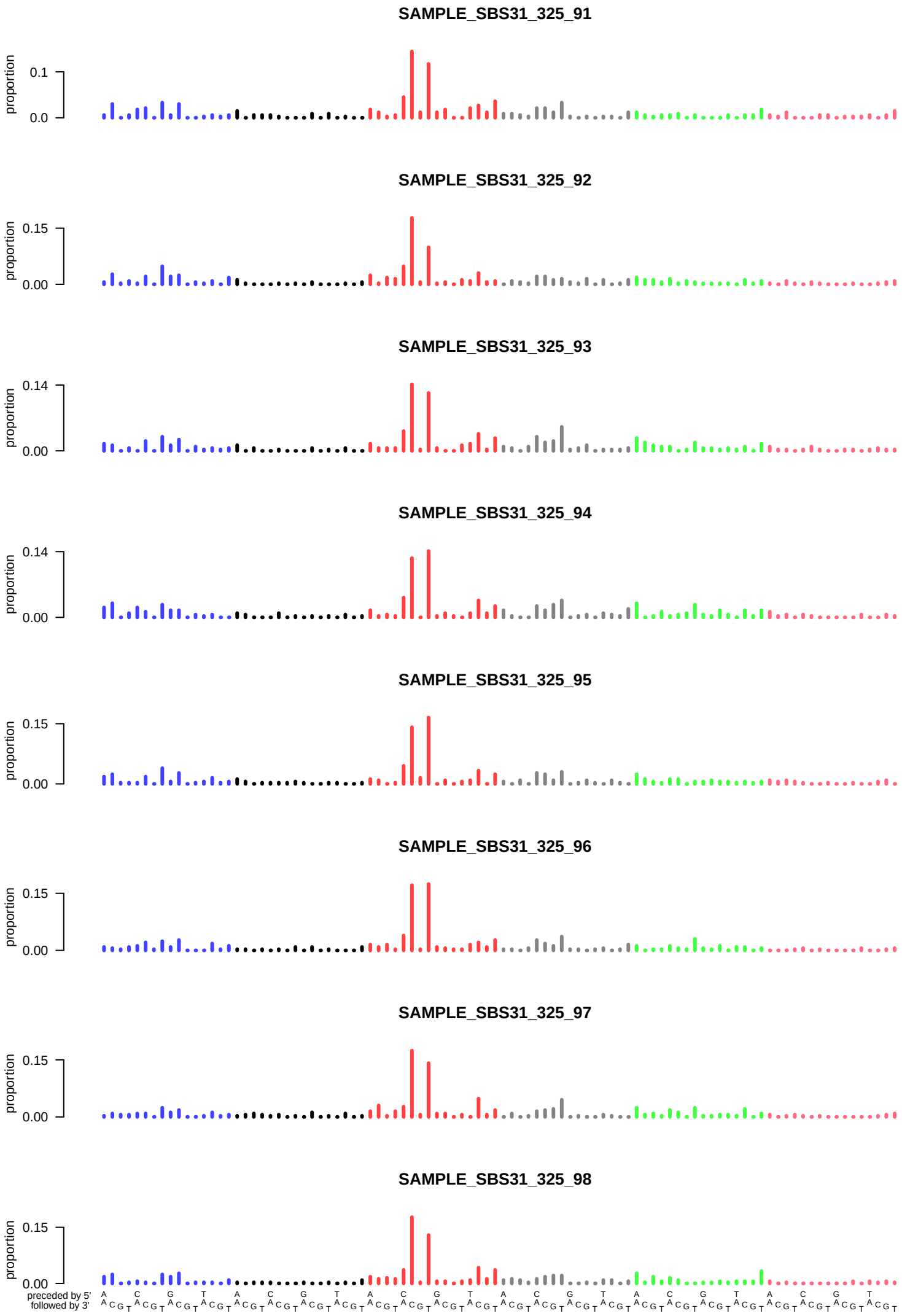
followed by 3'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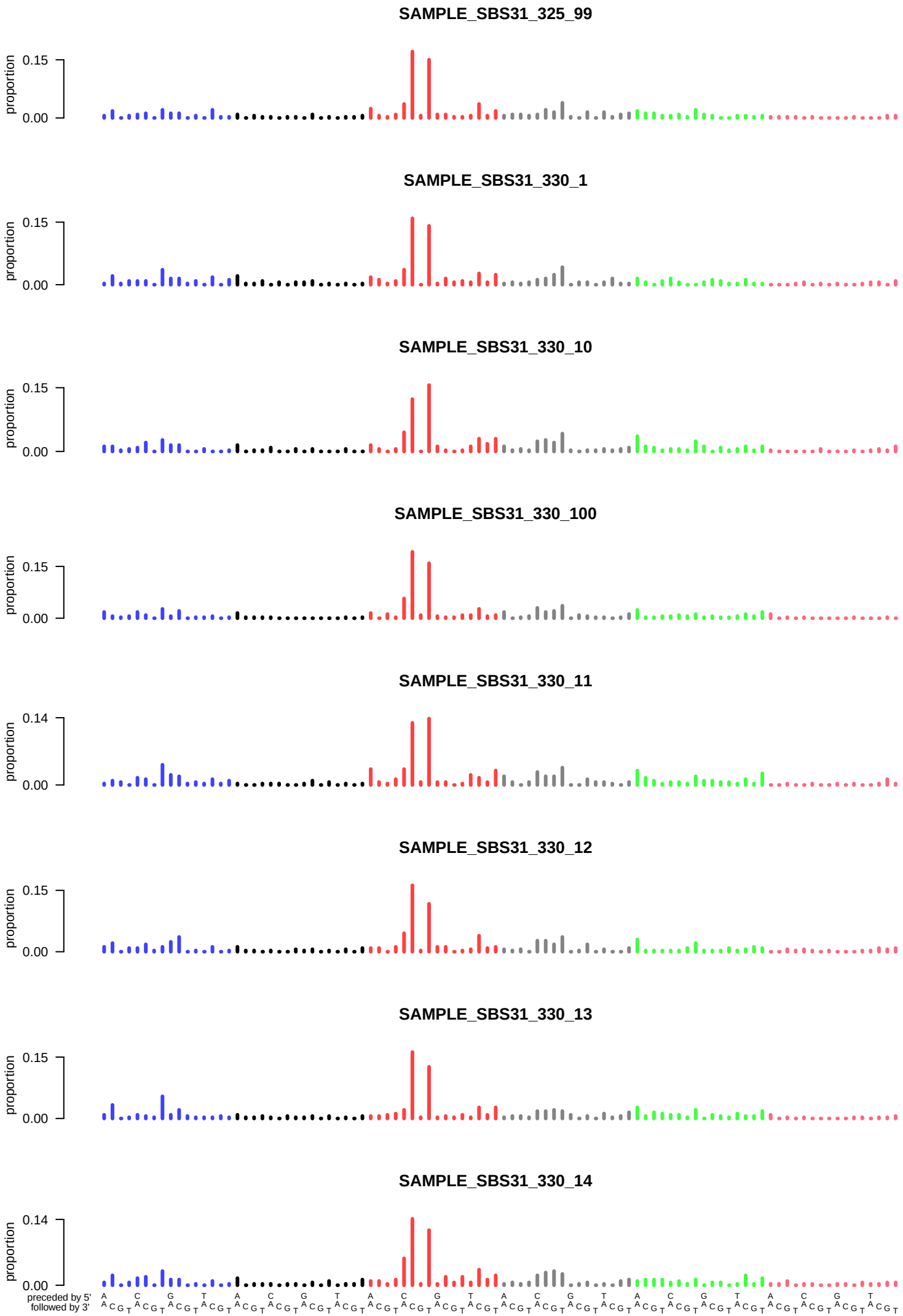
followed by 3'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SAMPLE_SBS31_330_13
proportion
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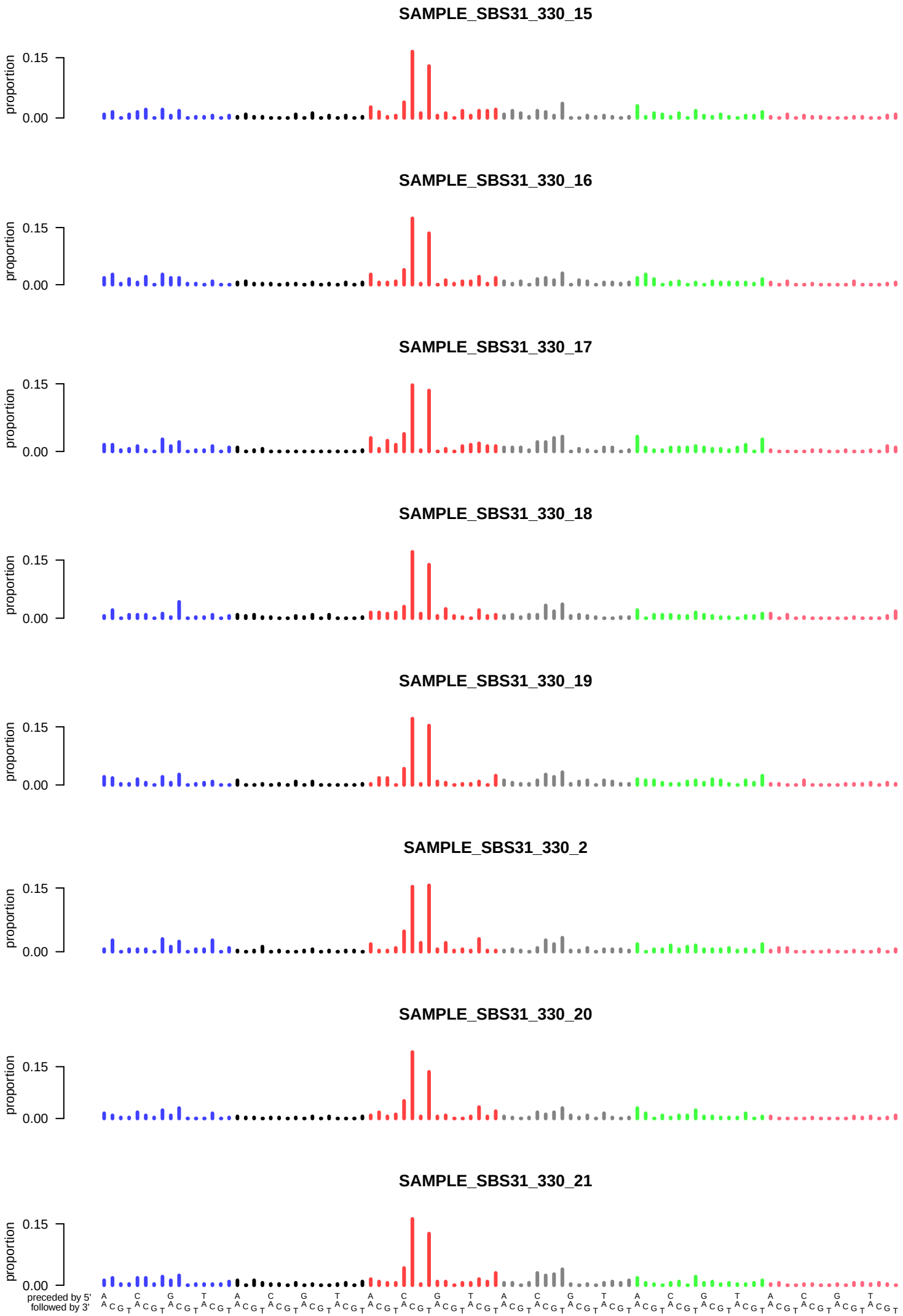
preceded by 5'
followed by 3'
A C G T A C G T A C G T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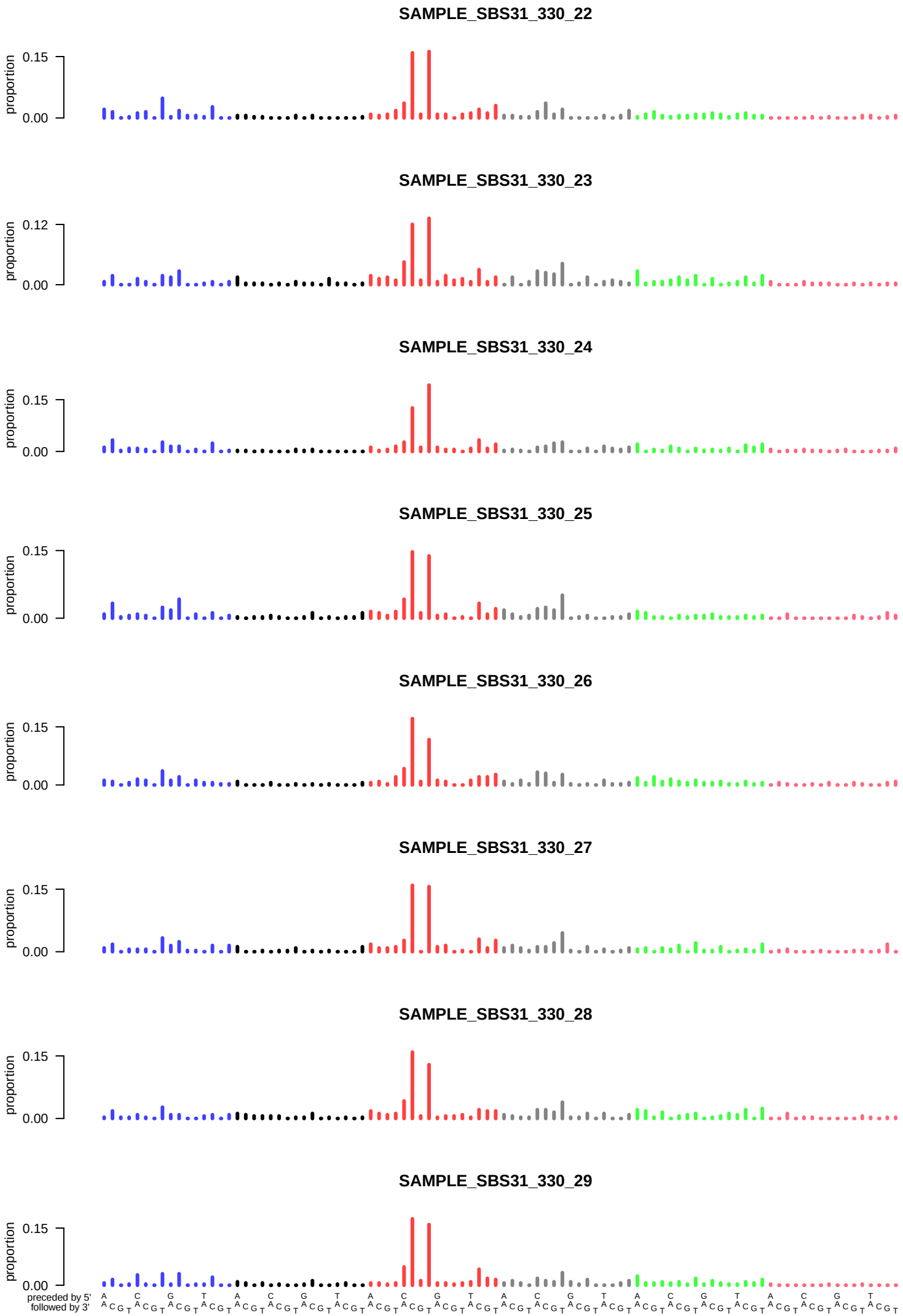
followed by 3'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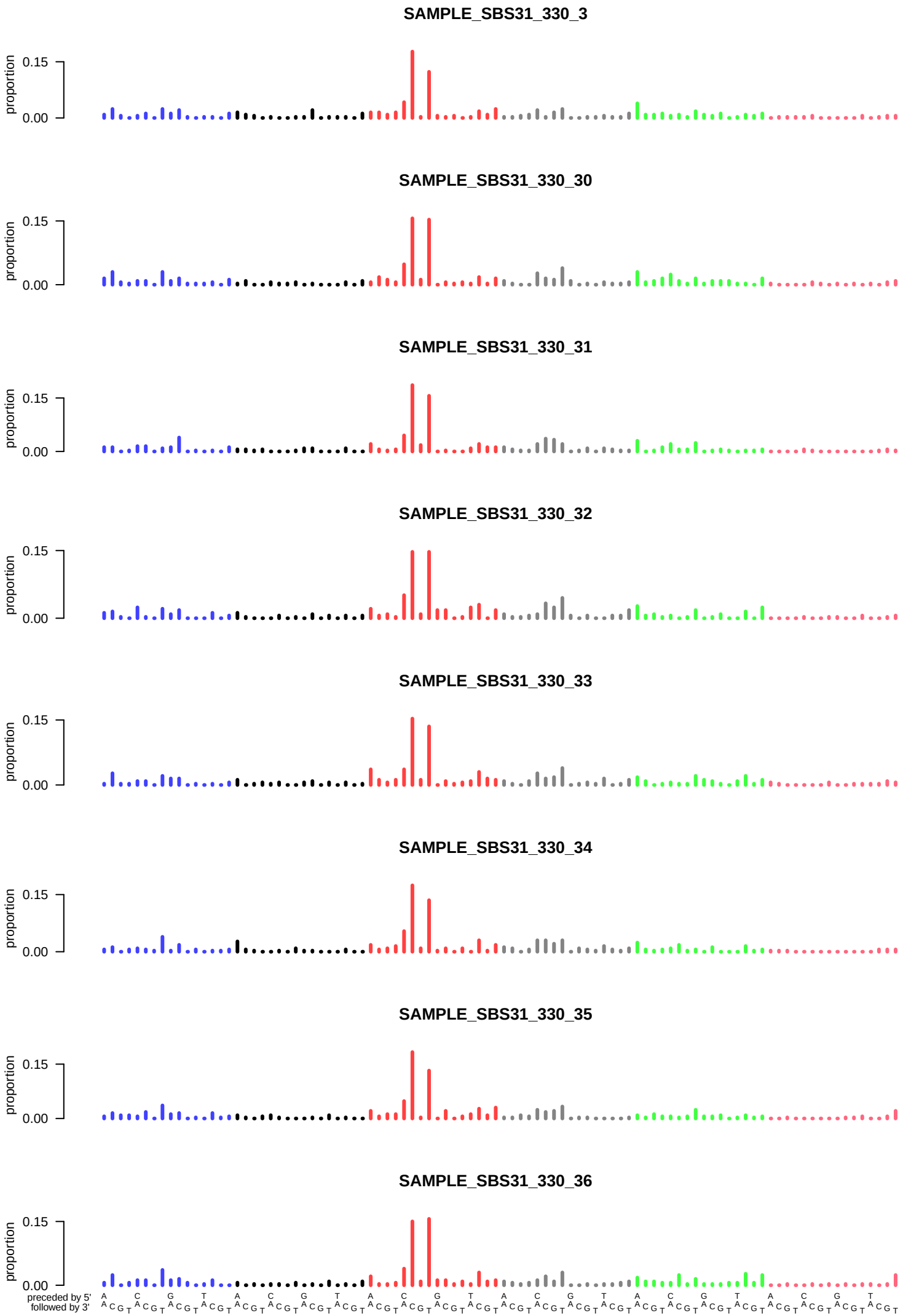
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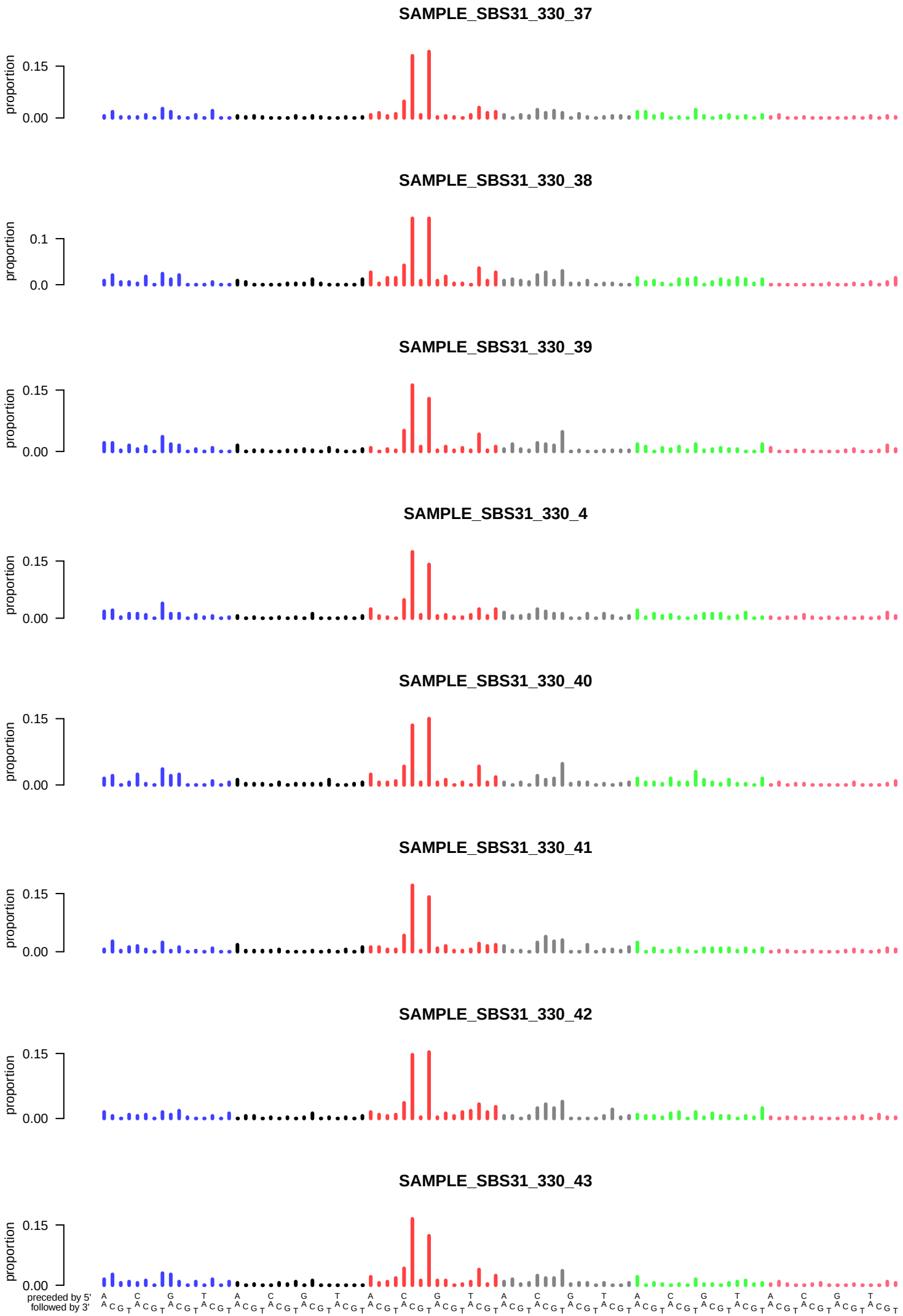
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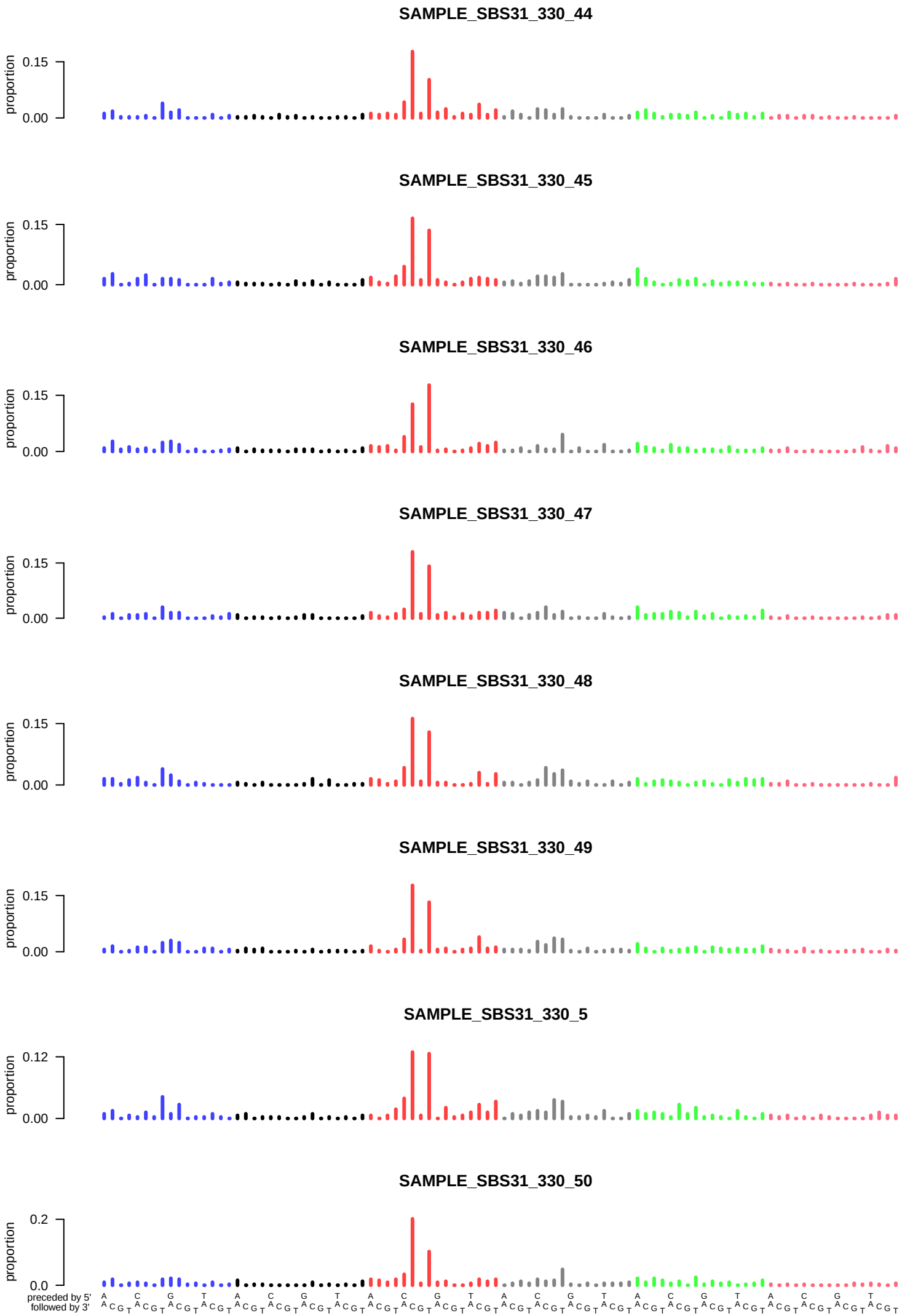
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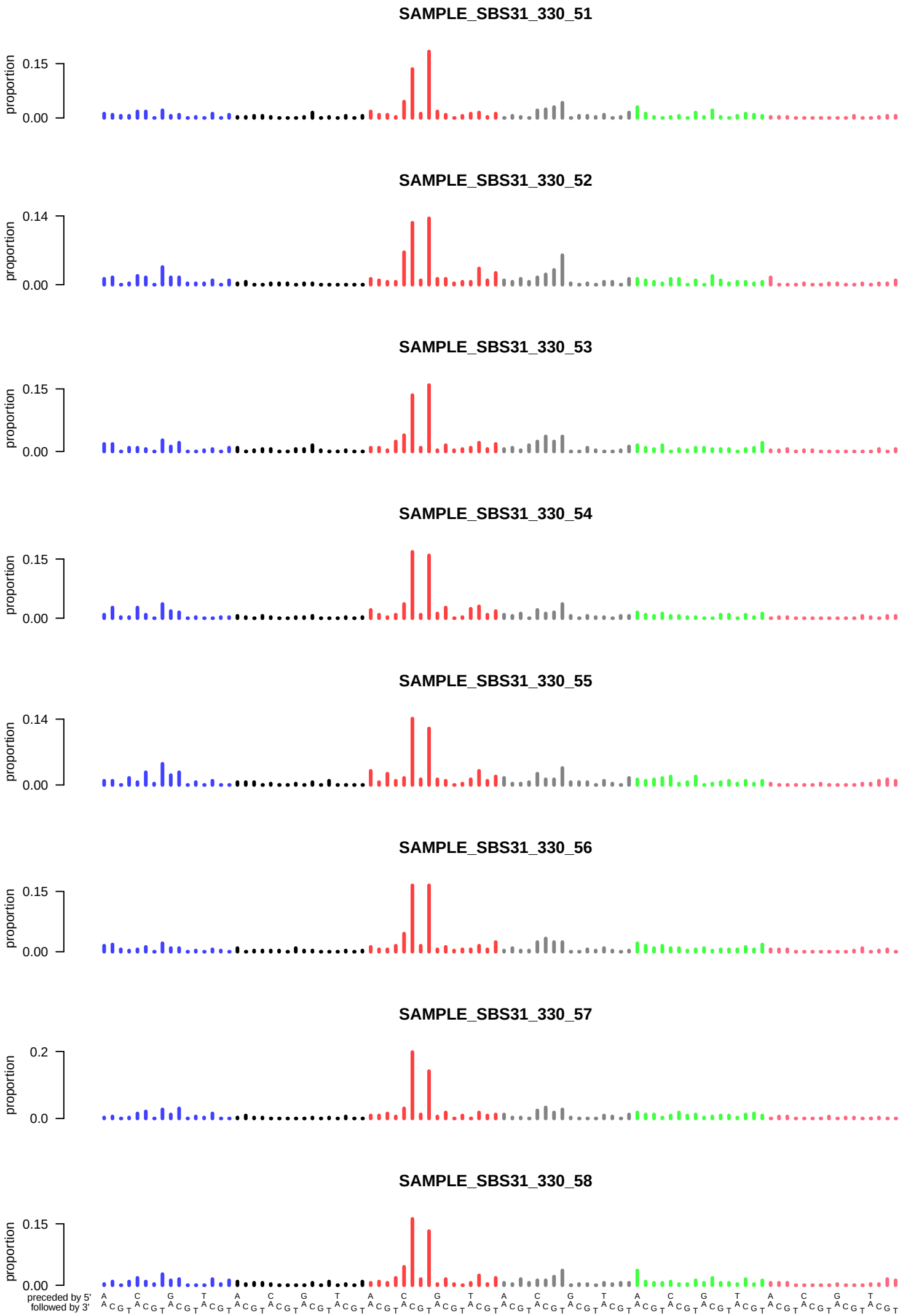
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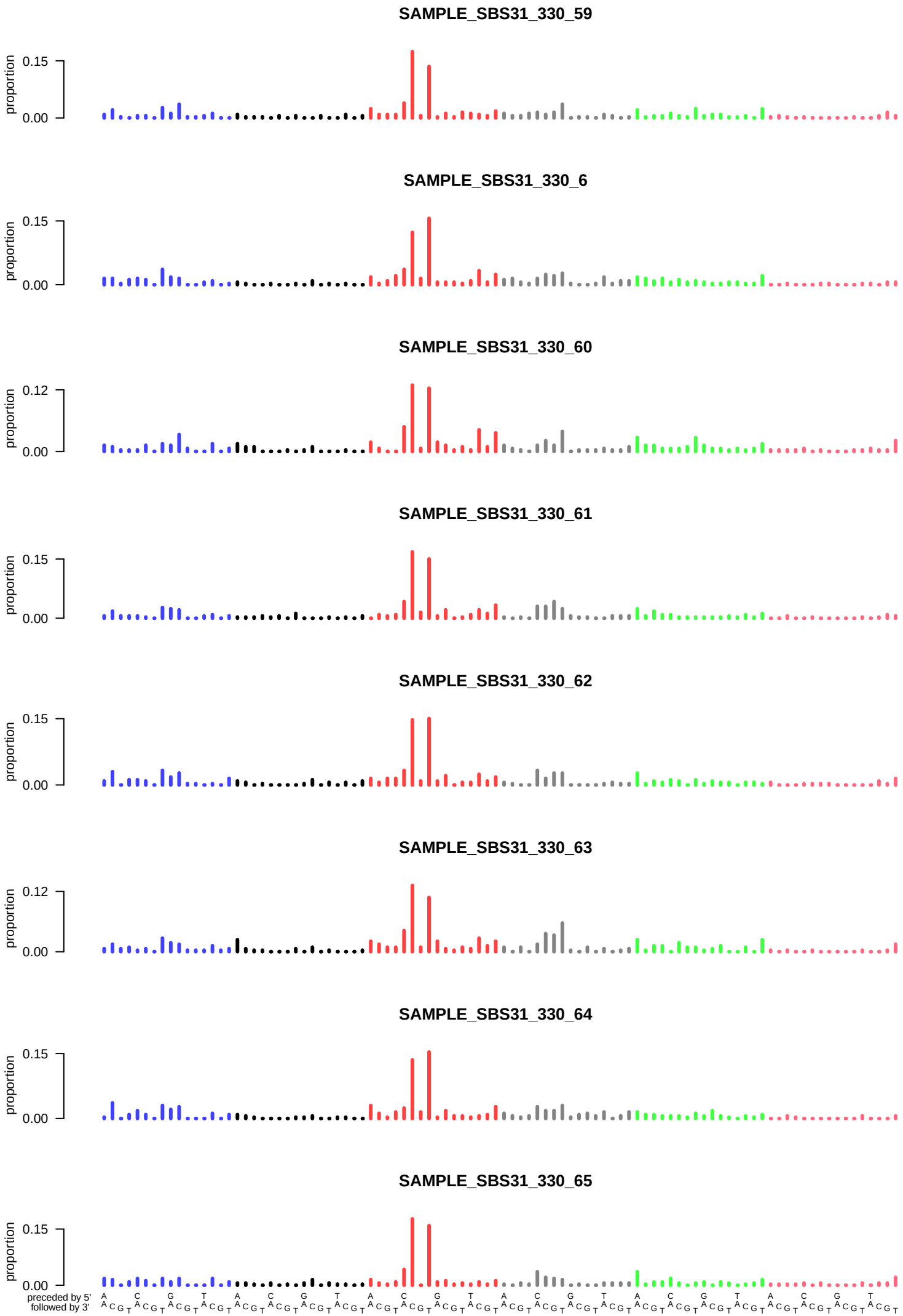
followed by 3'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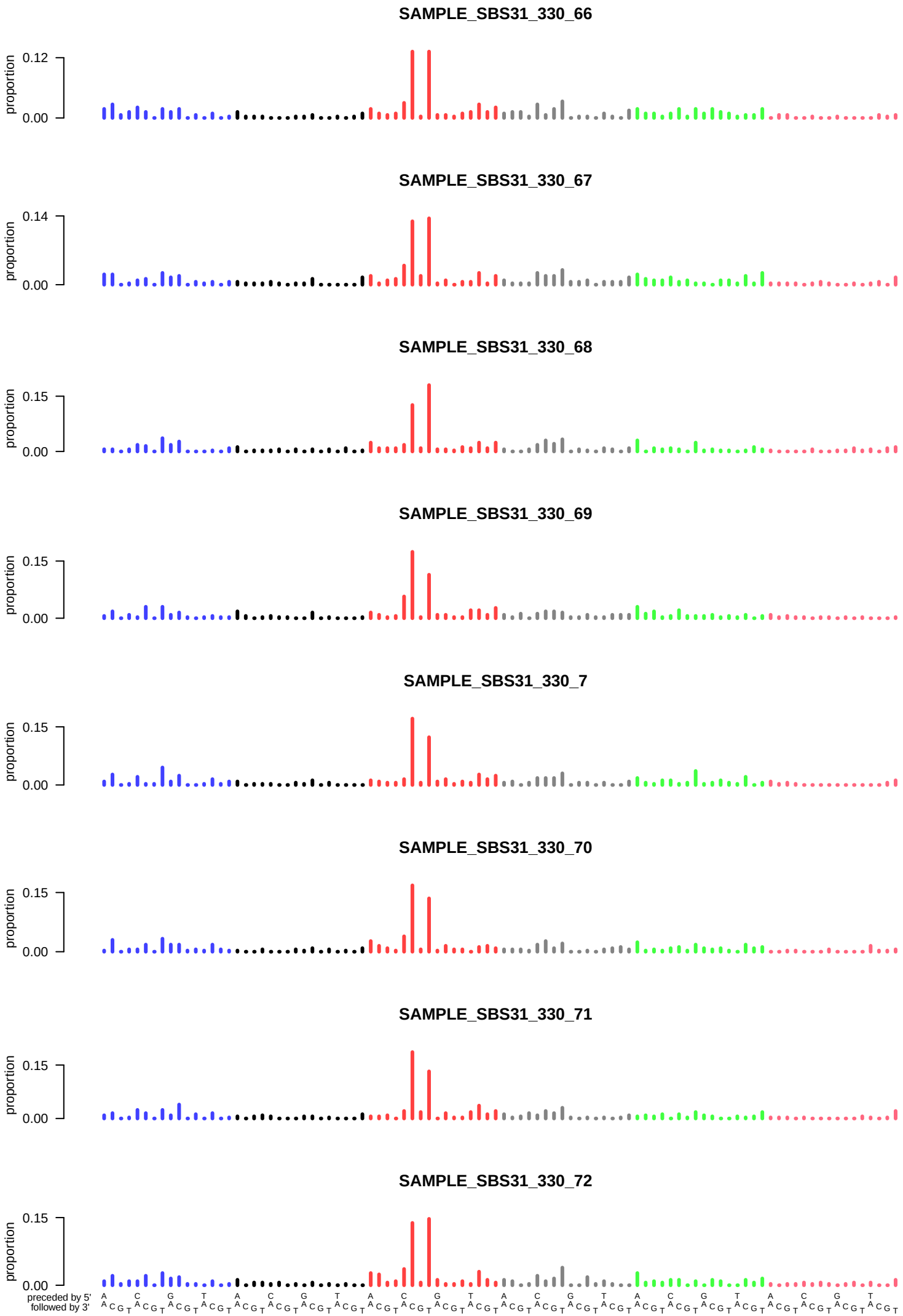
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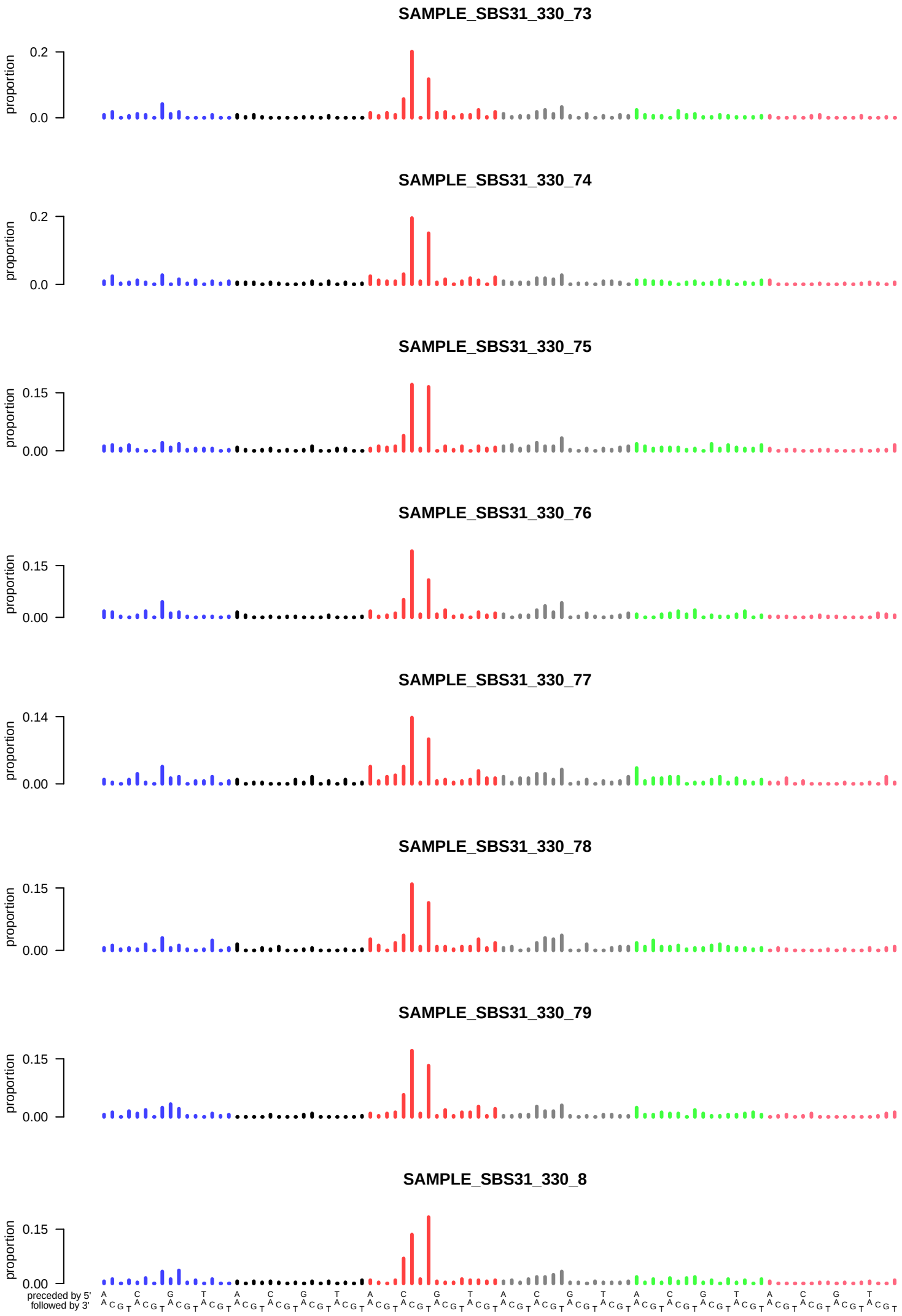
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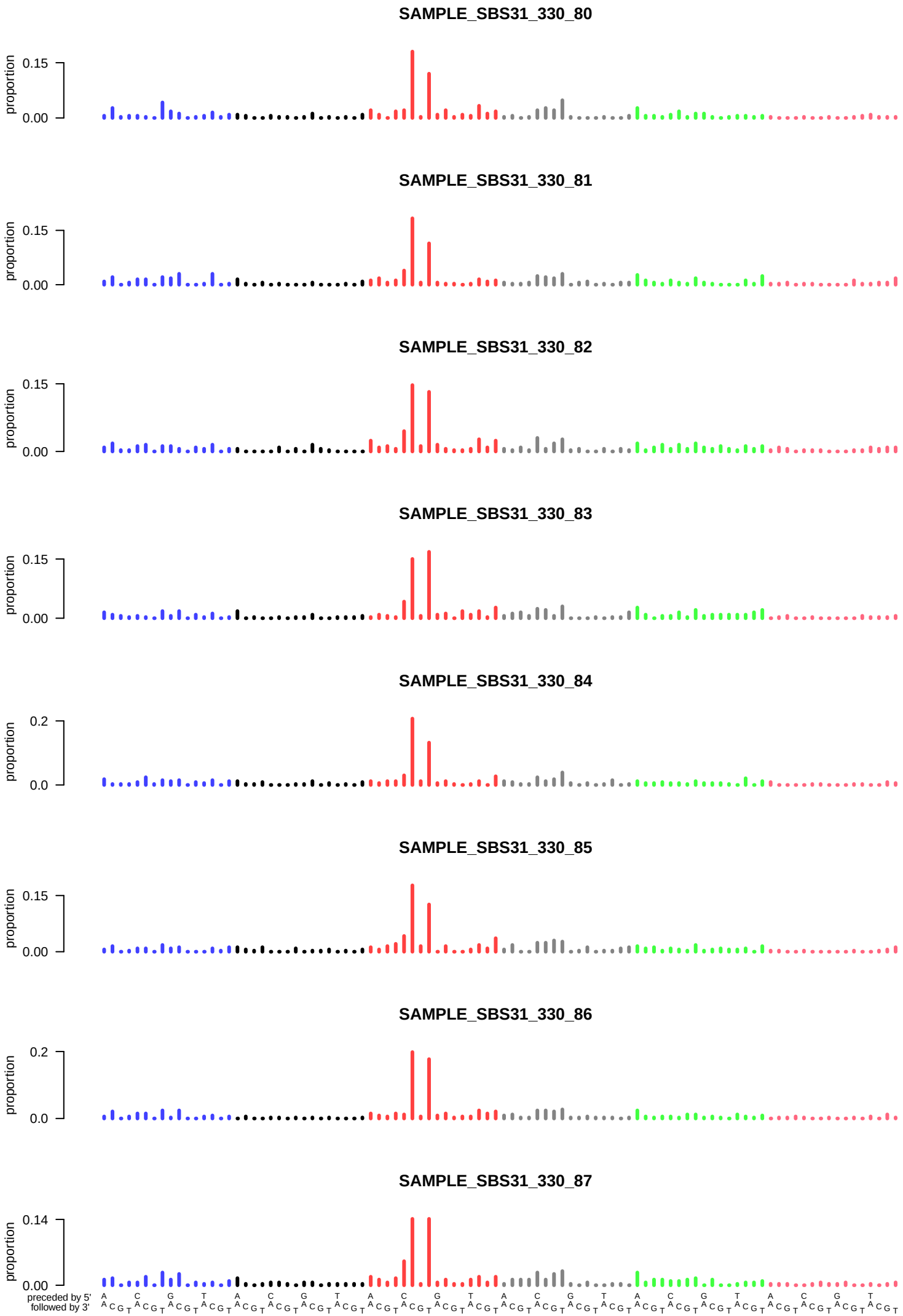
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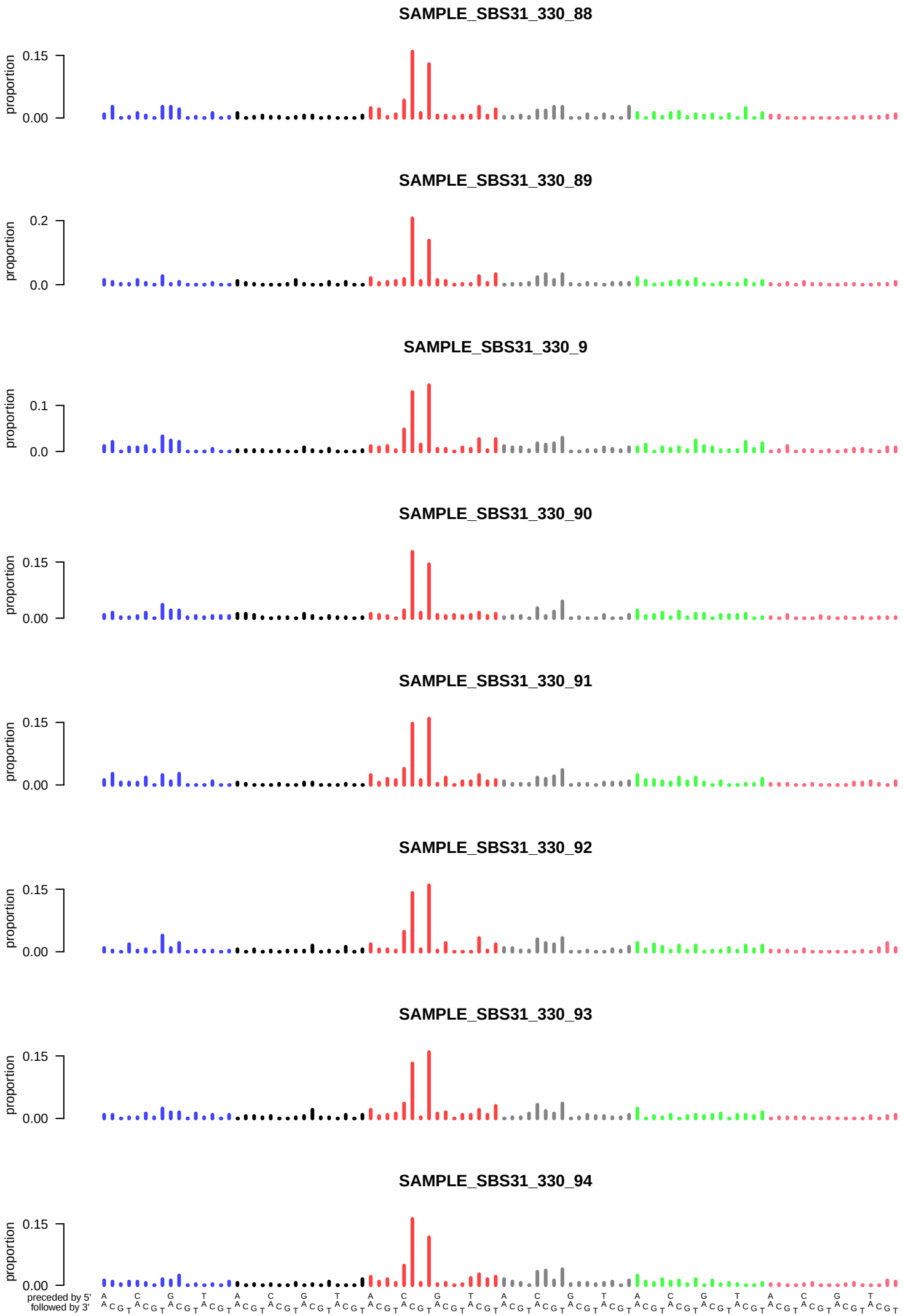
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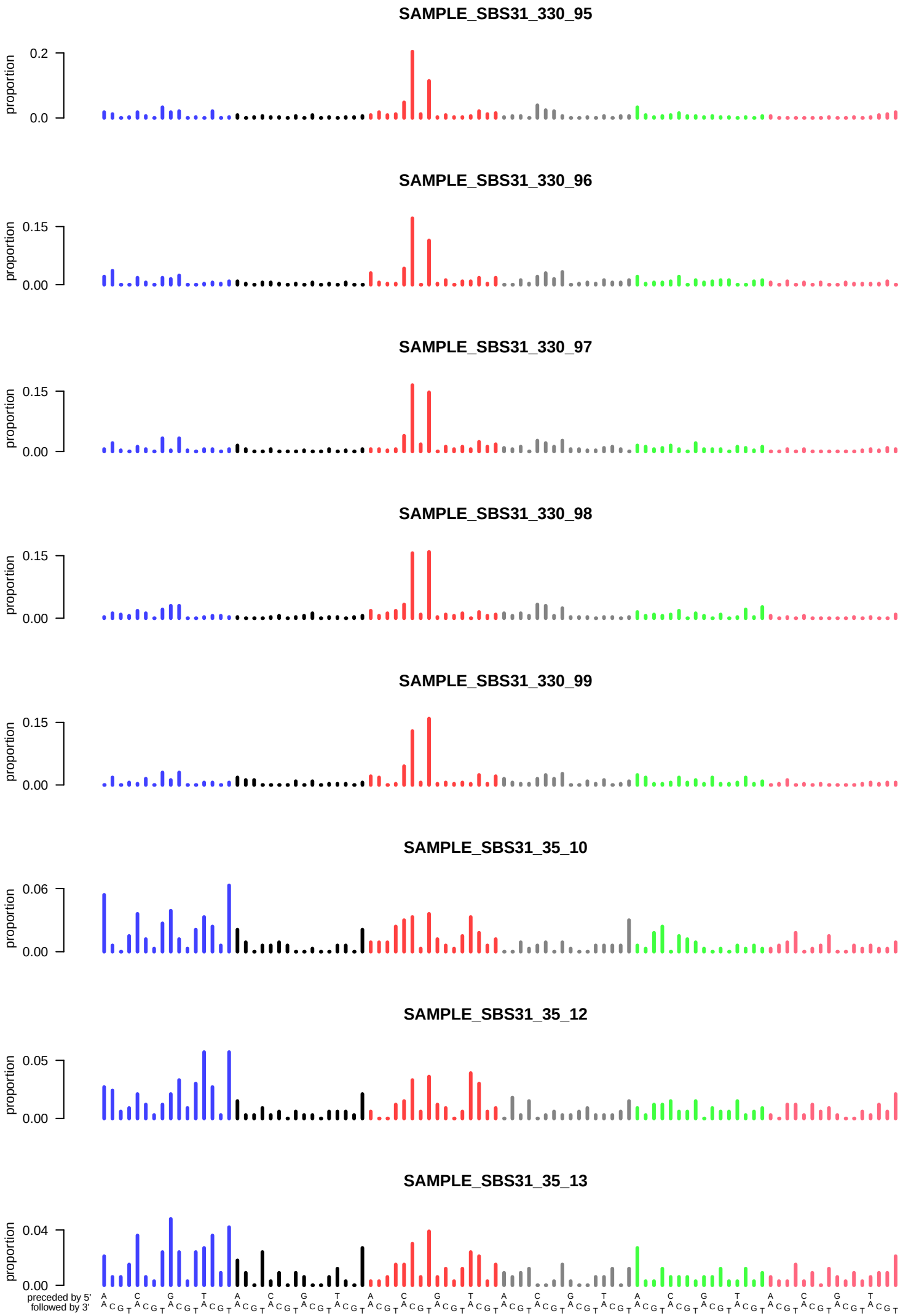
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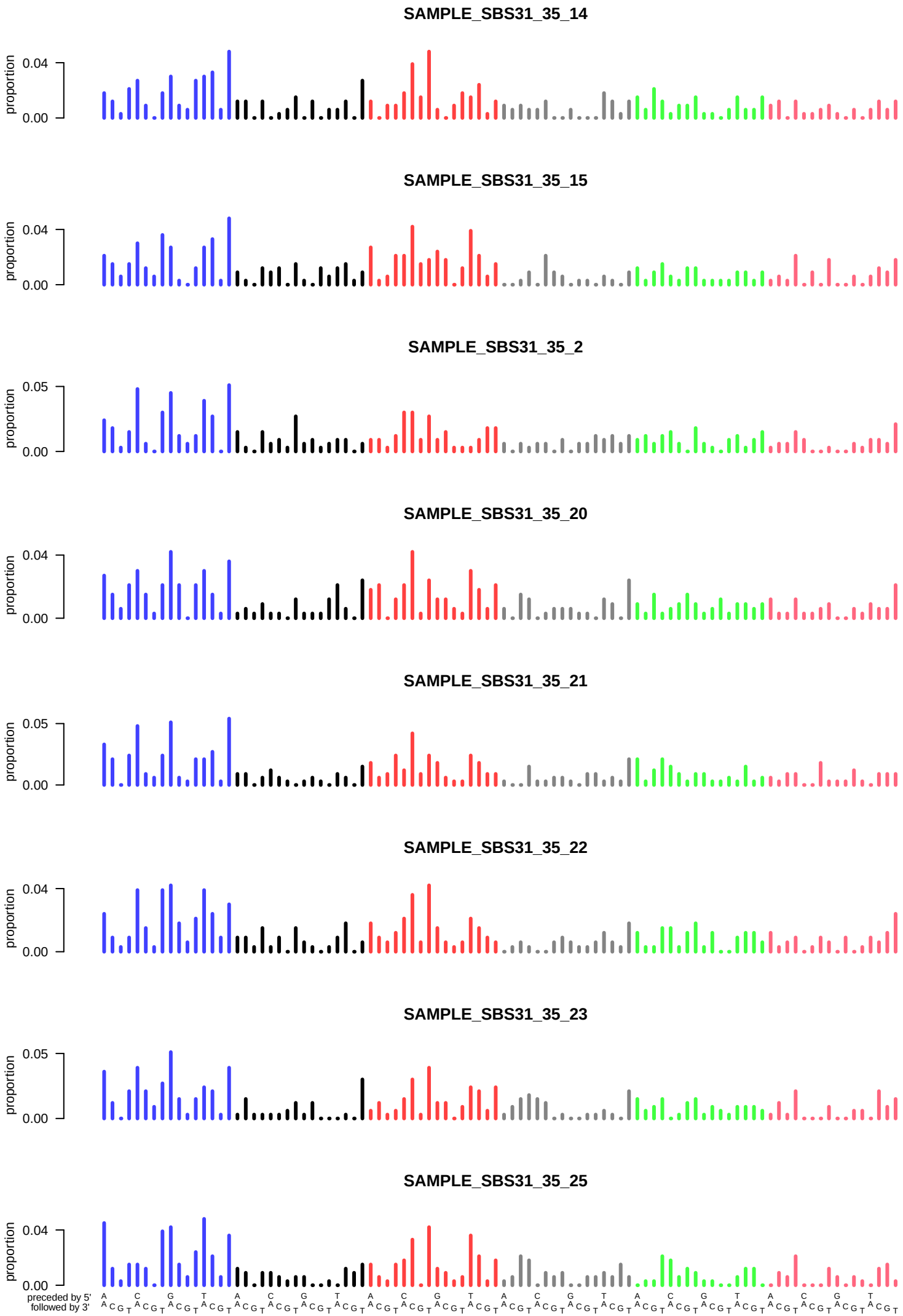
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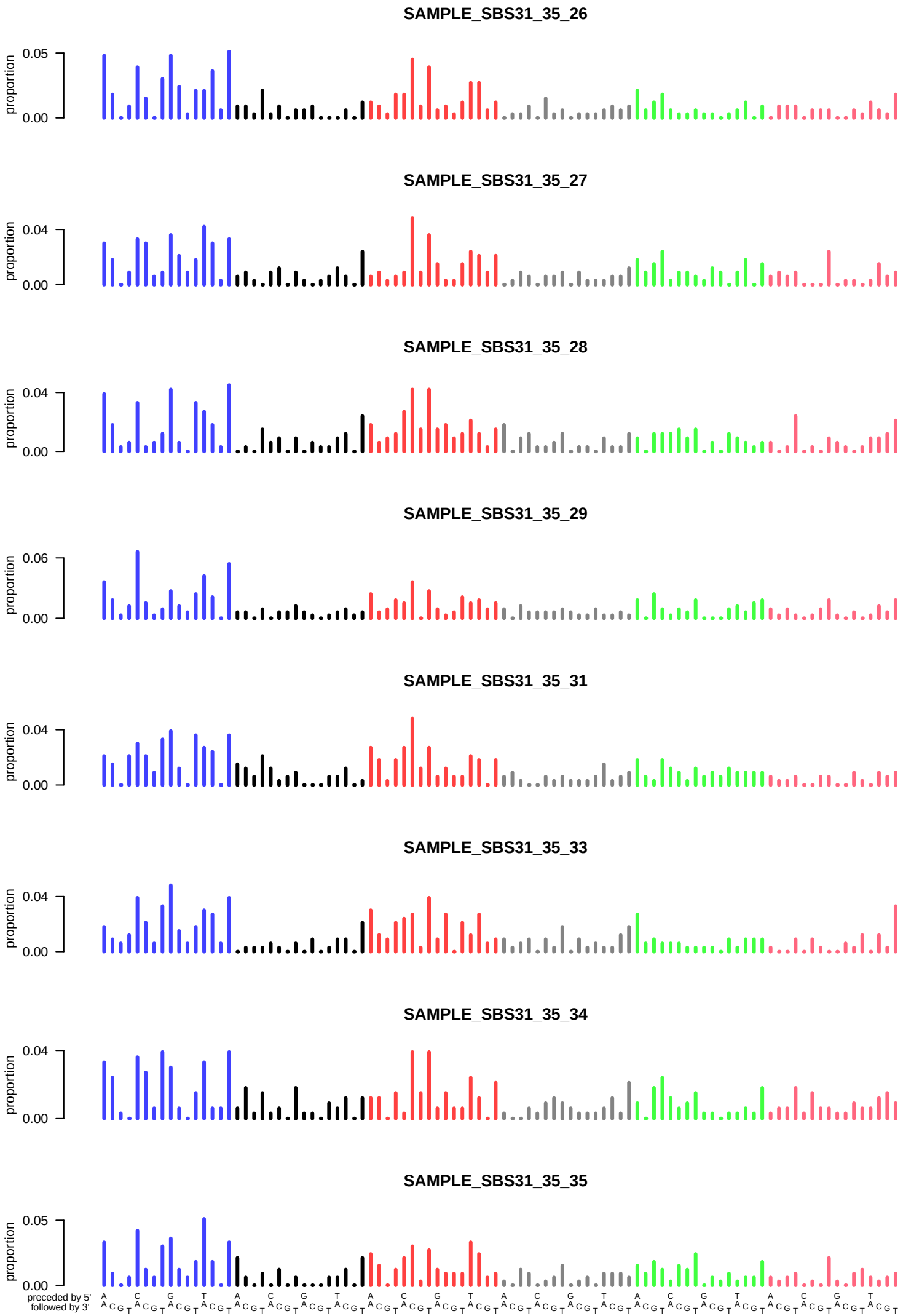
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followed by 3'
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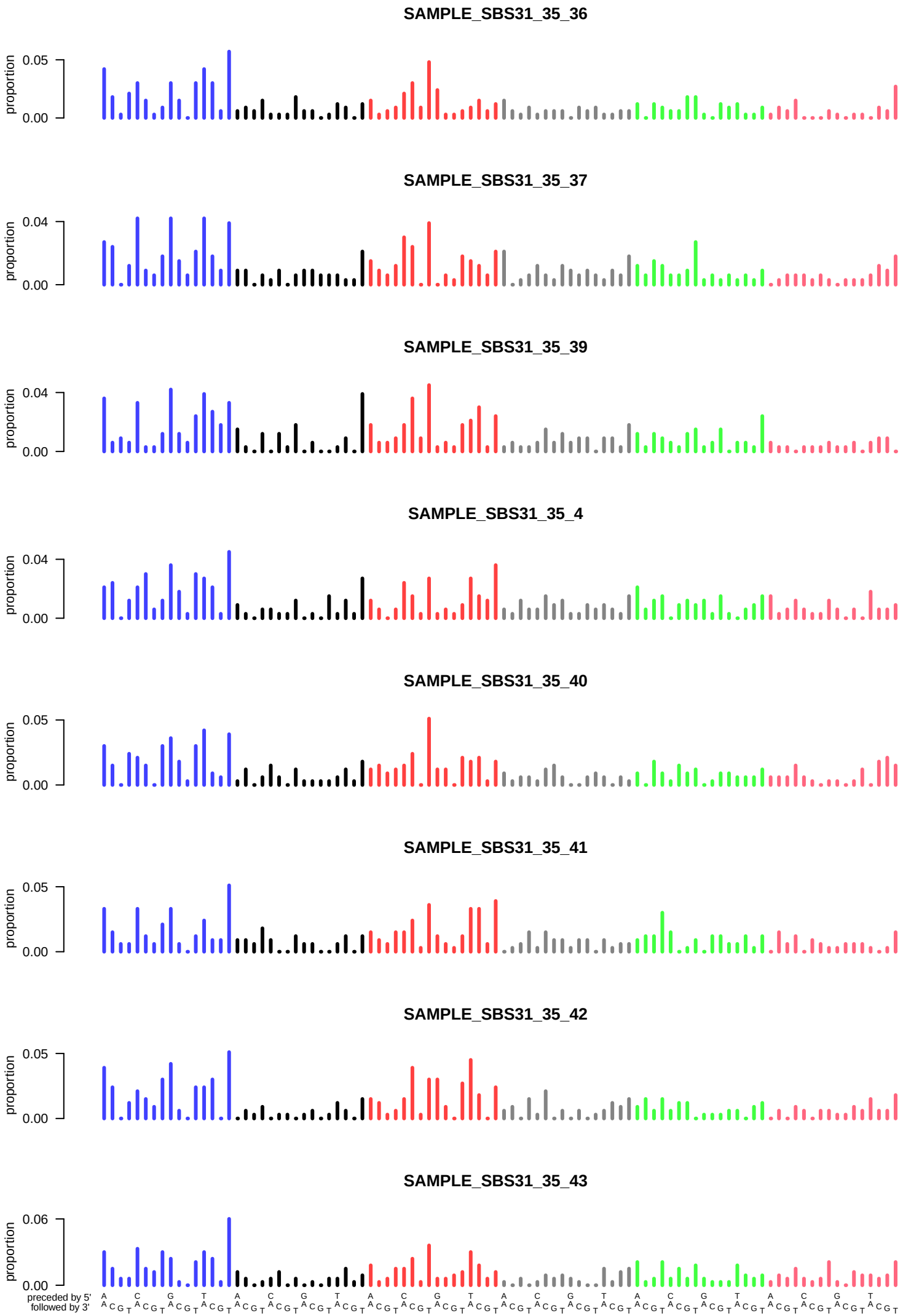
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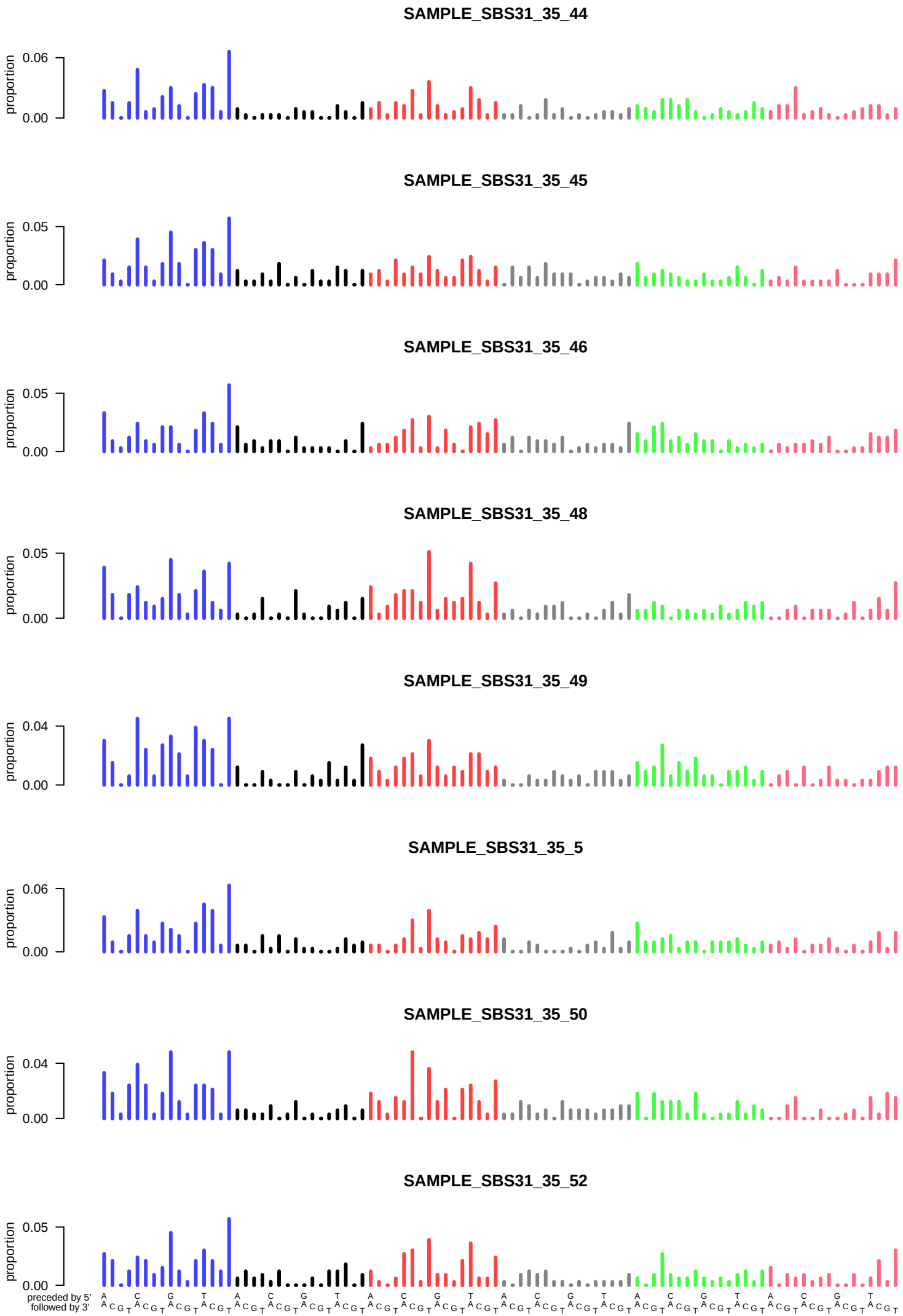
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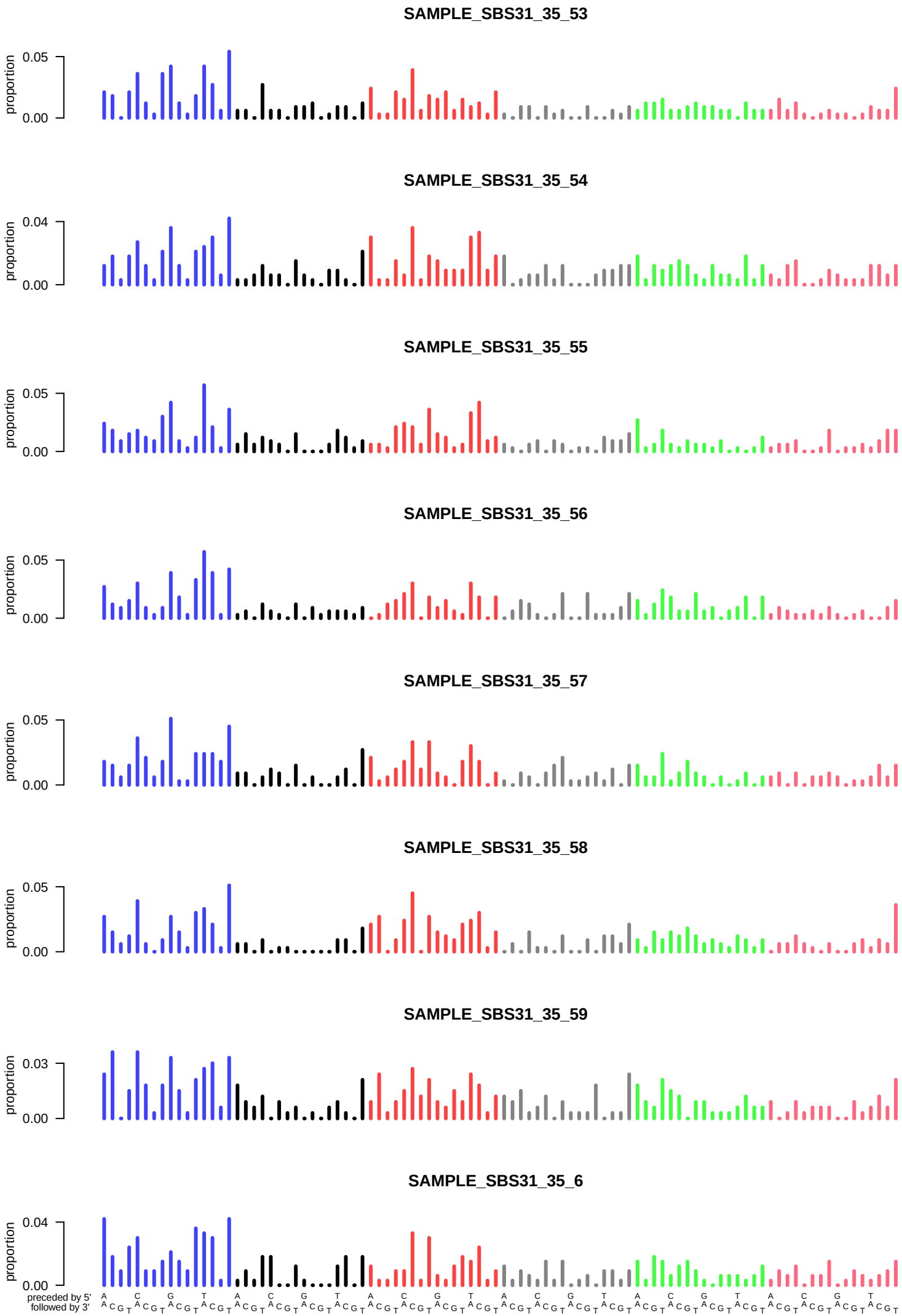
A C G T A C G T A C G T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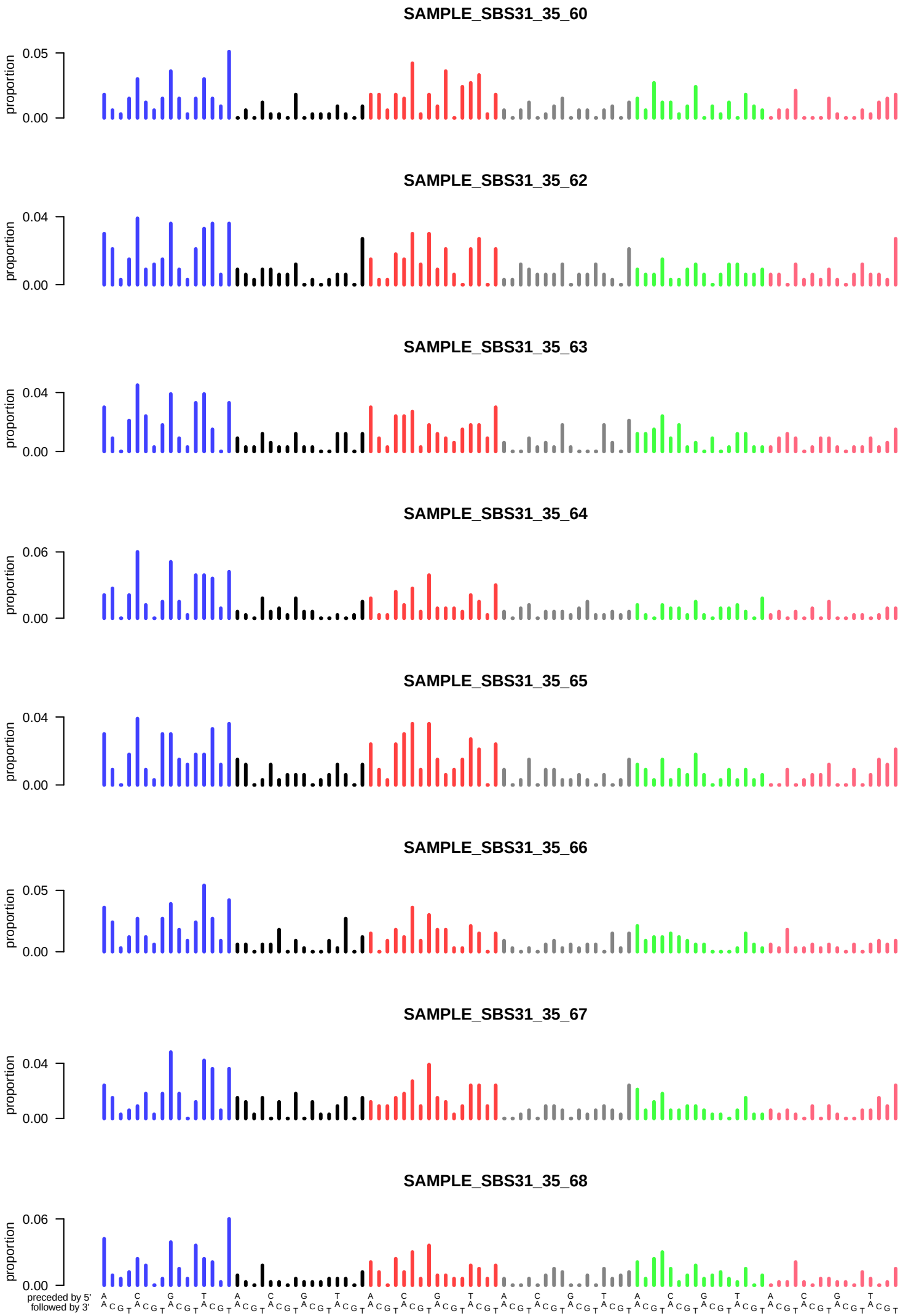
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followed by 3'
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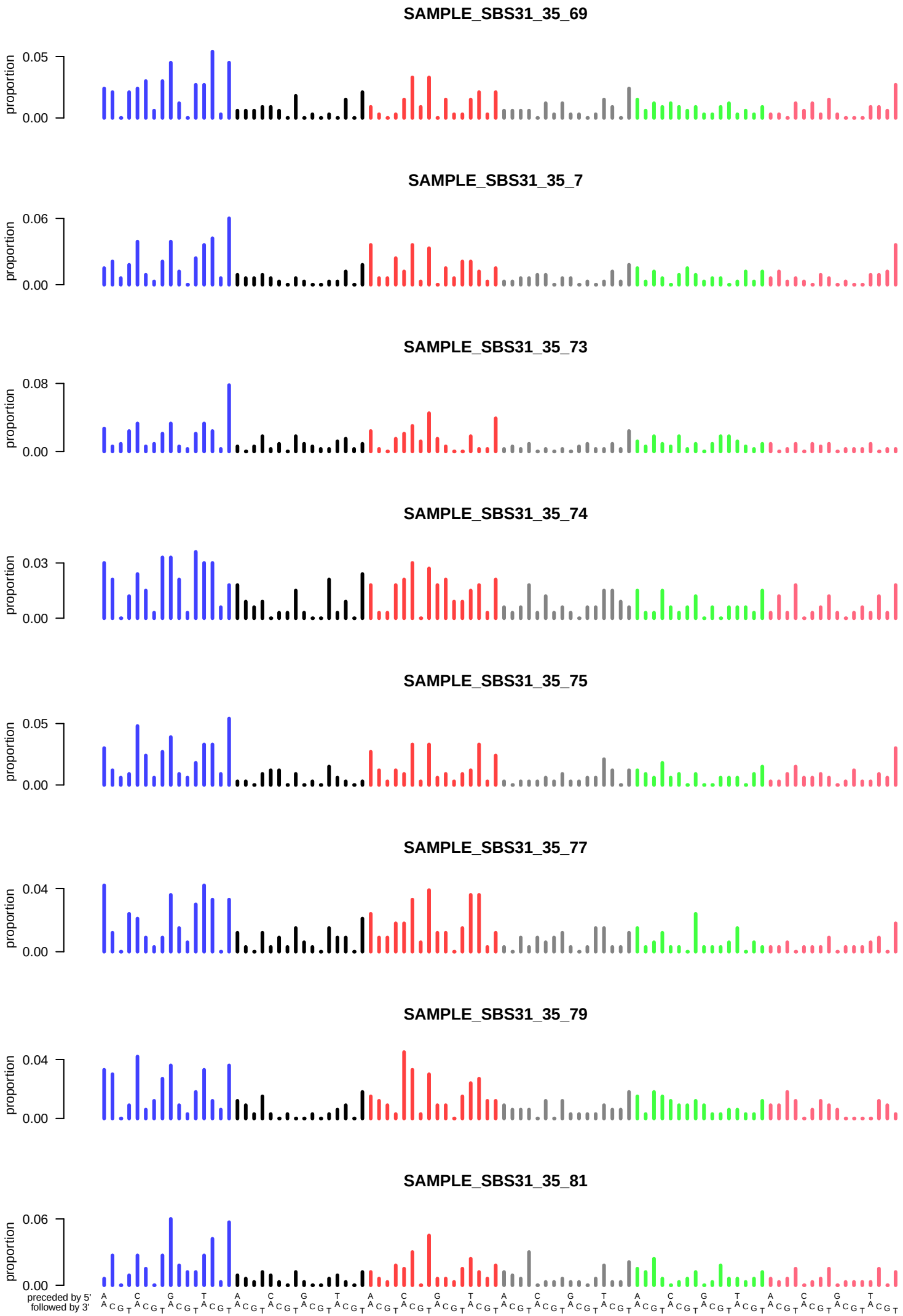
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SAMPLE_SBS31_35_79
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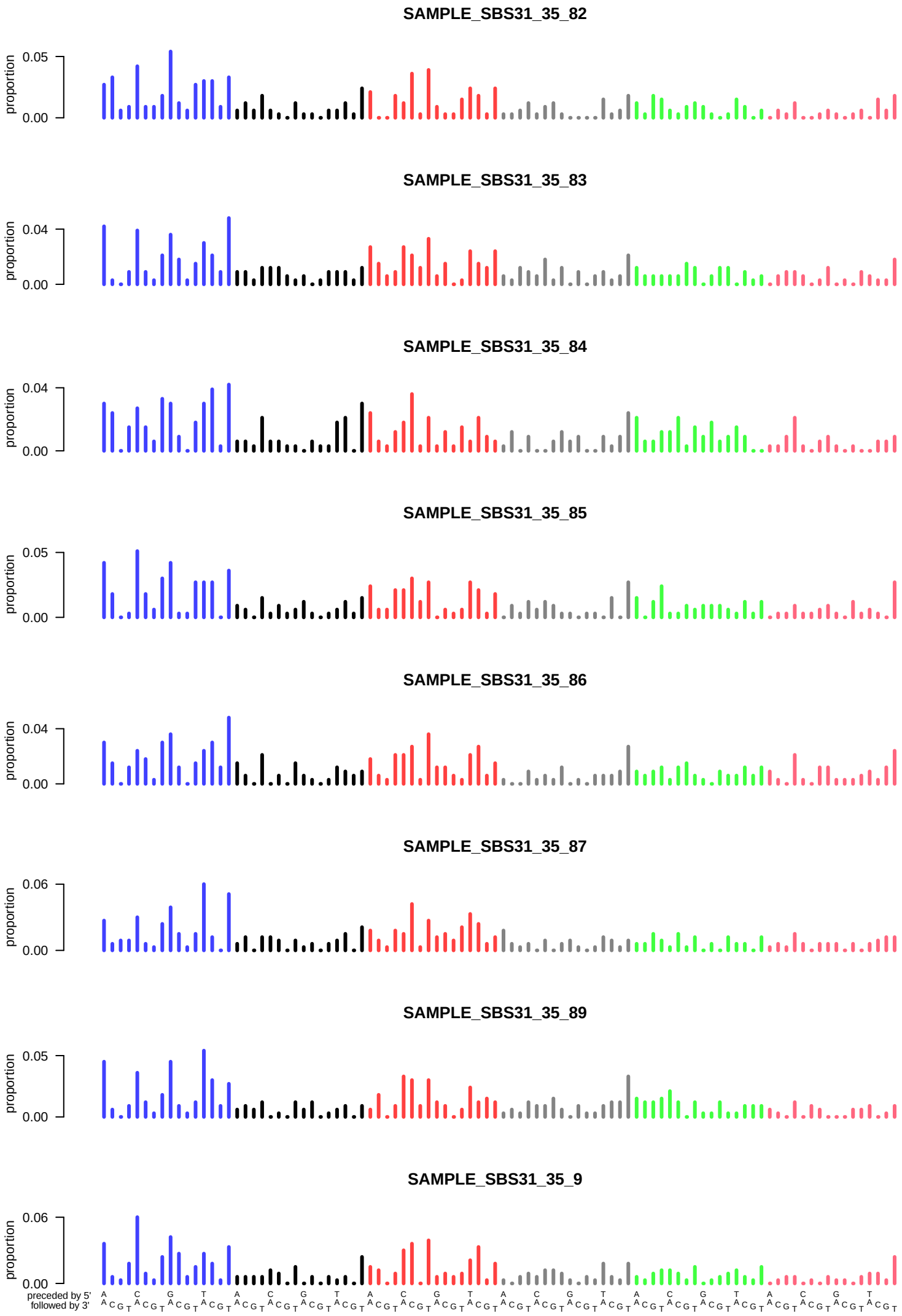
followed by 3'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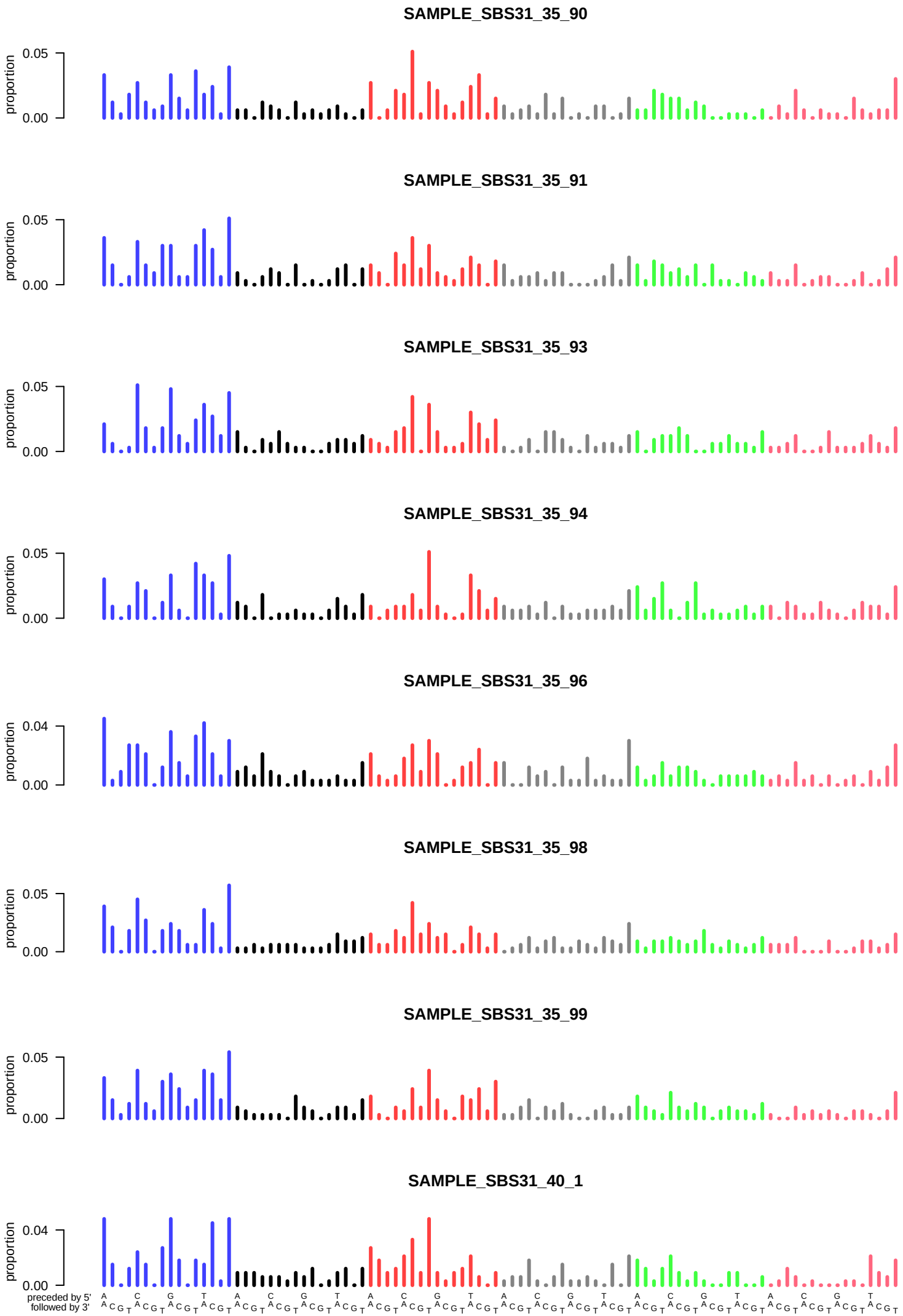
followed by 3'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SAMPLE_SBS31_35_96
SAMPLE_SBS31_35_98
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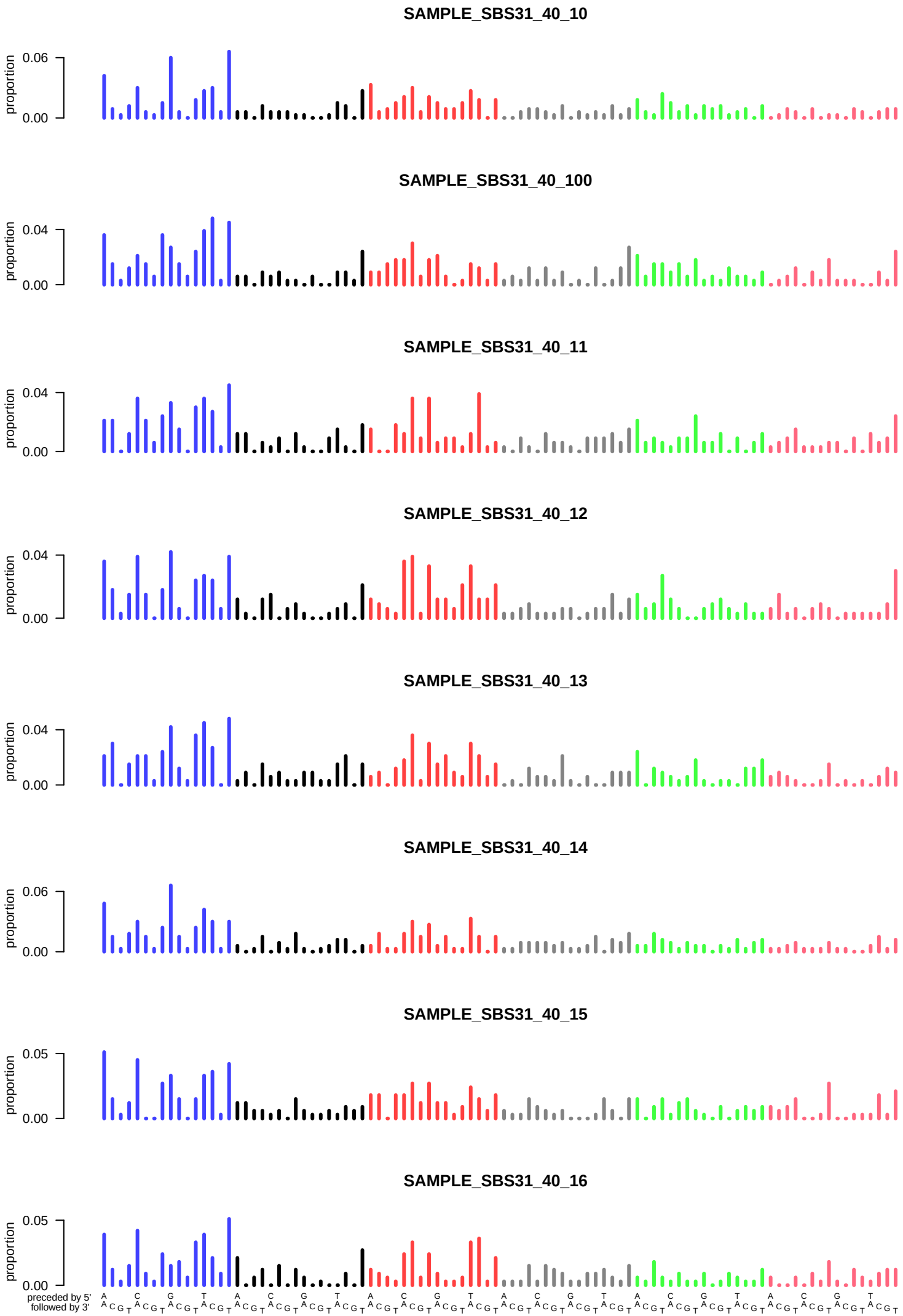
followed by 3'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SAMPLE_SBS31_40_14
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SAMPLE_SBS31_40_15
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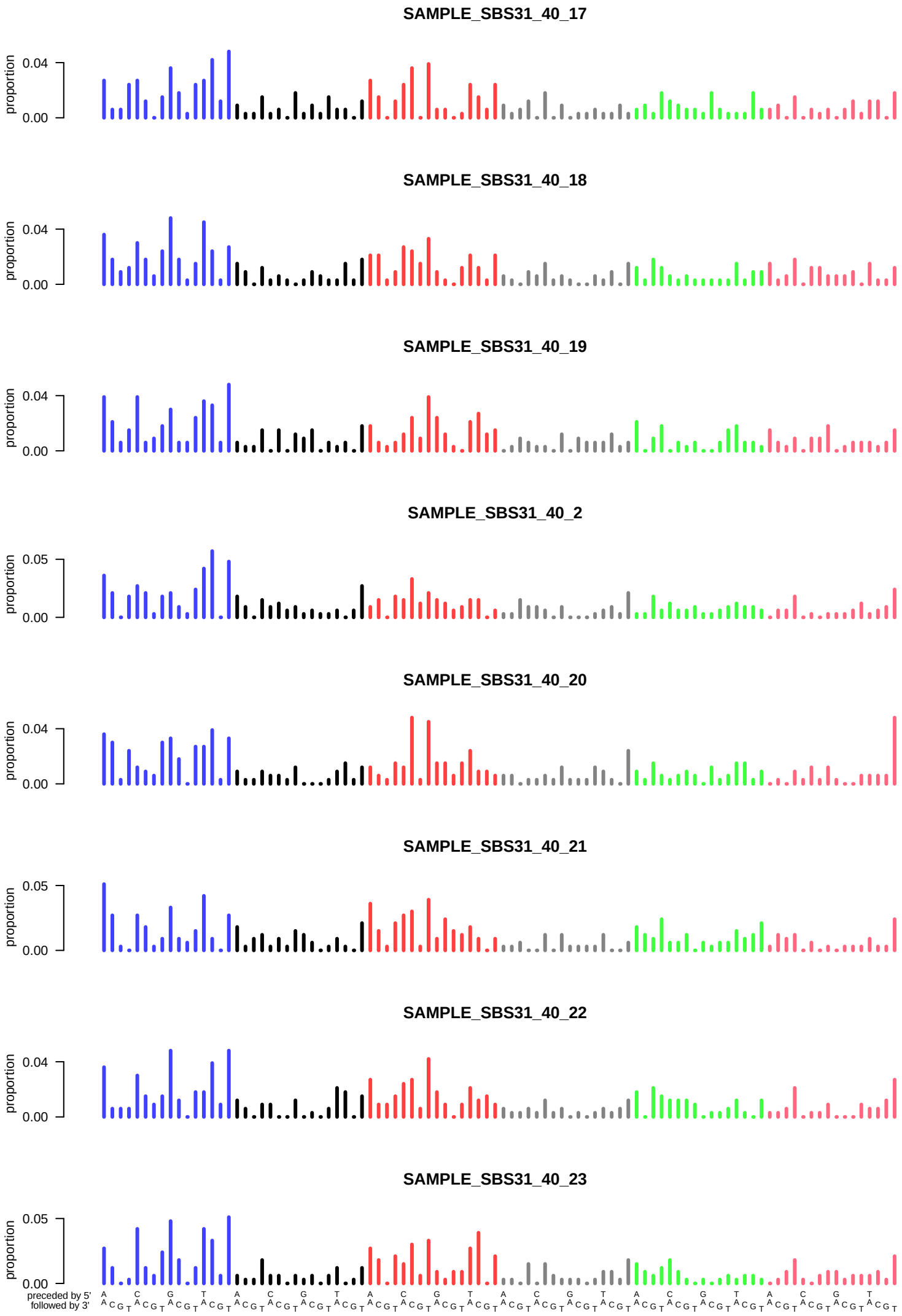
followed by 3'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SAMPLE_SBS31_40_21
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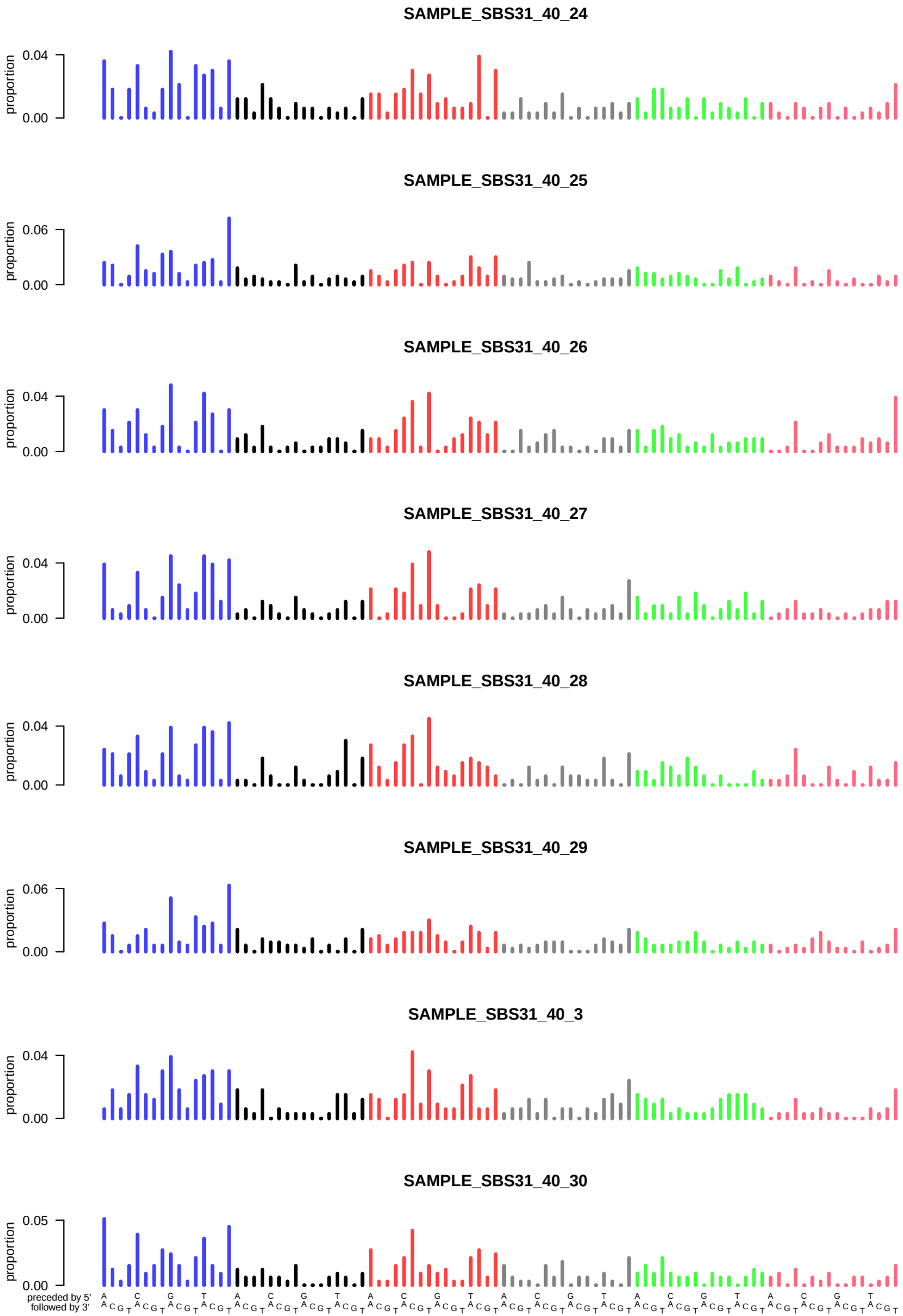
followed by 3'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proportion
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SAMPLE_SBS31_40_28
proportion
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SAMPLE_SBS31_40_29
proportion
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SAMPLE_SBS31_40_3
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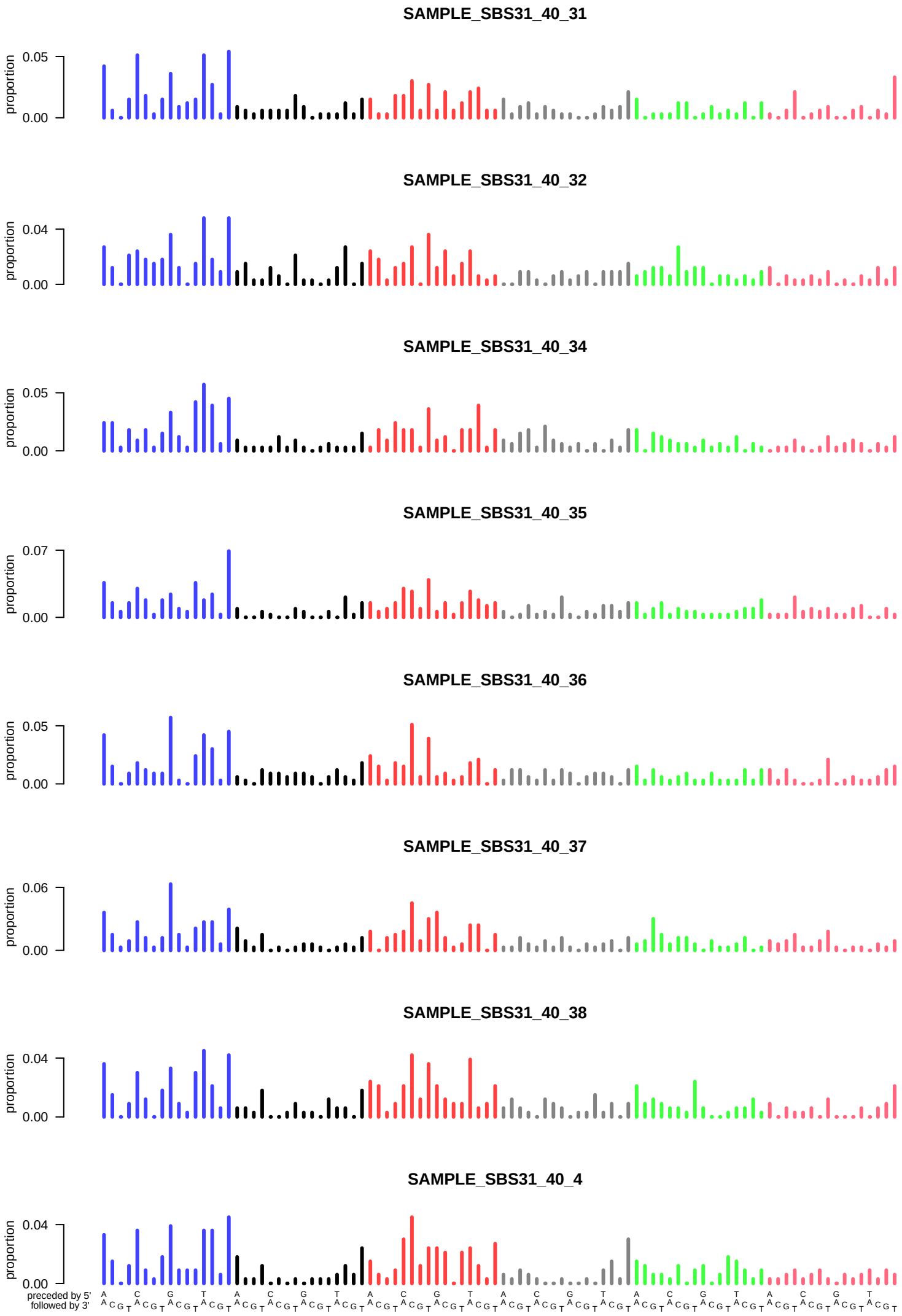
followed by 3'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SAMPLE_SBS31_40_37
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SAMPLE_SBS31_40_38
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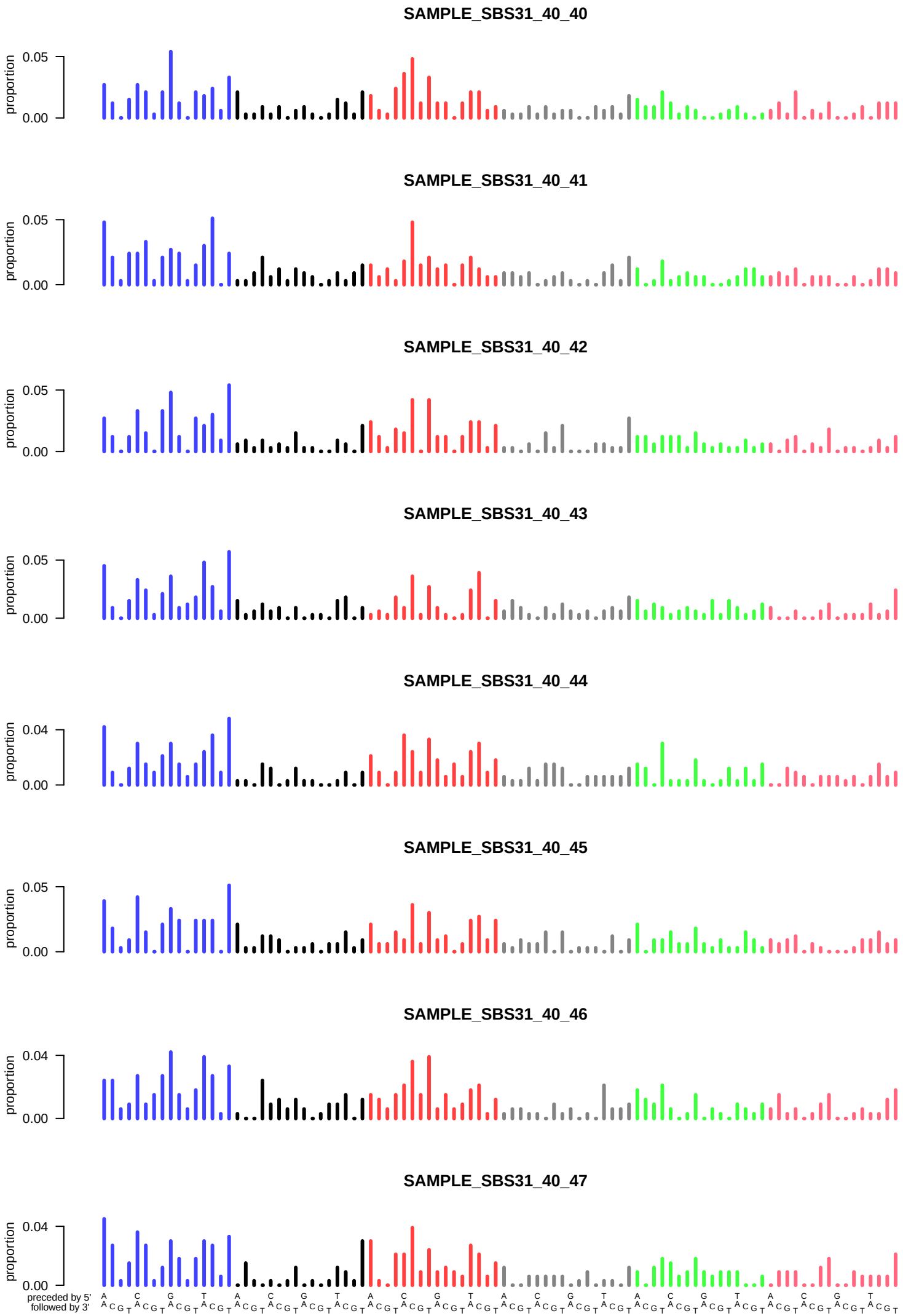
followed by 3'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SAMPLE_SBS31_40_44
SAMPLE_SBS31_40_45
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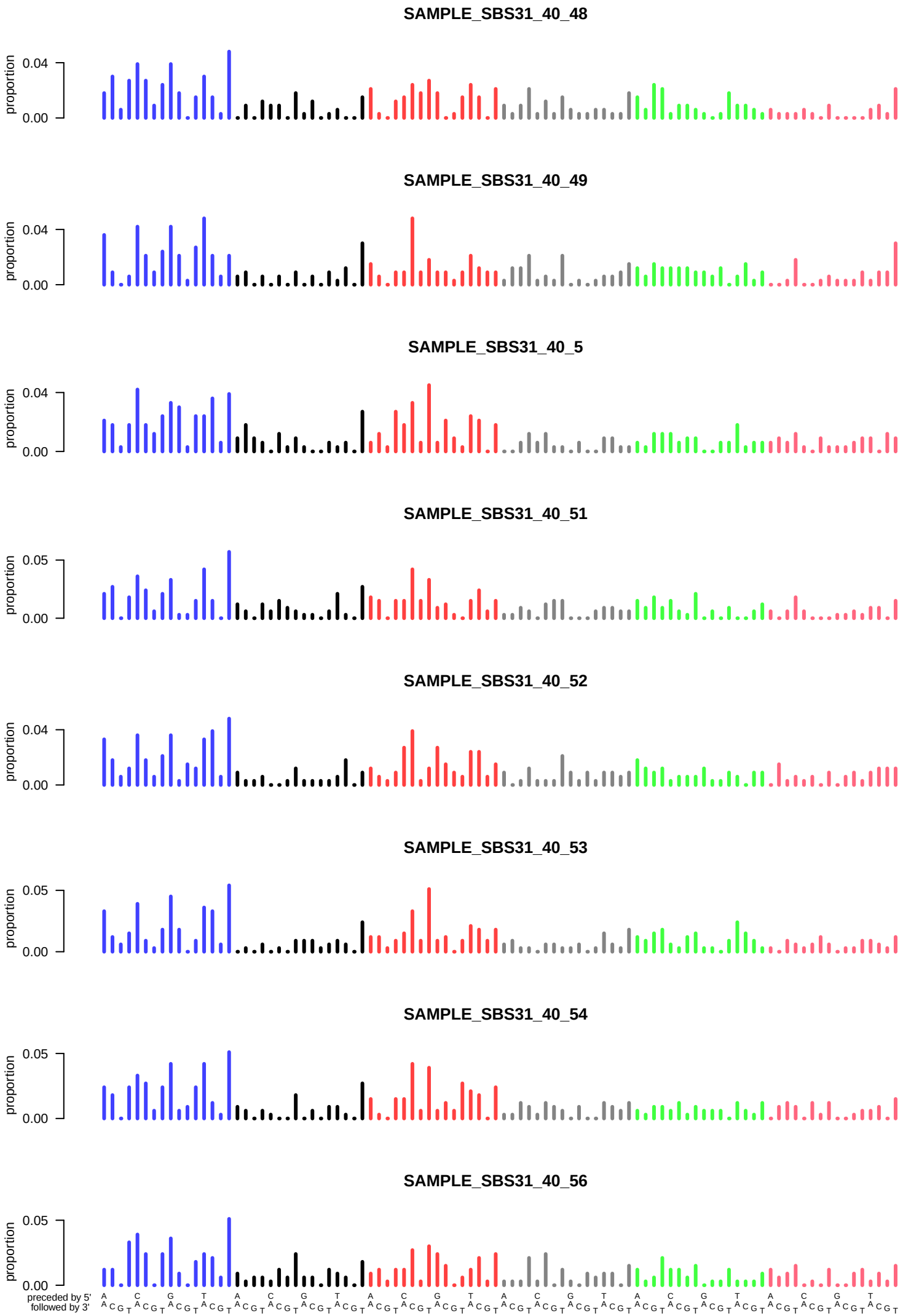
followed by 3'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SAMPLE_SBS31_40_51
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SAMPLE_SBS31_40_52
proportion
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SAMPLE_SBS31_40_53
proportion
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SAMPLE_SBS31_40_54
proportion
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proportion
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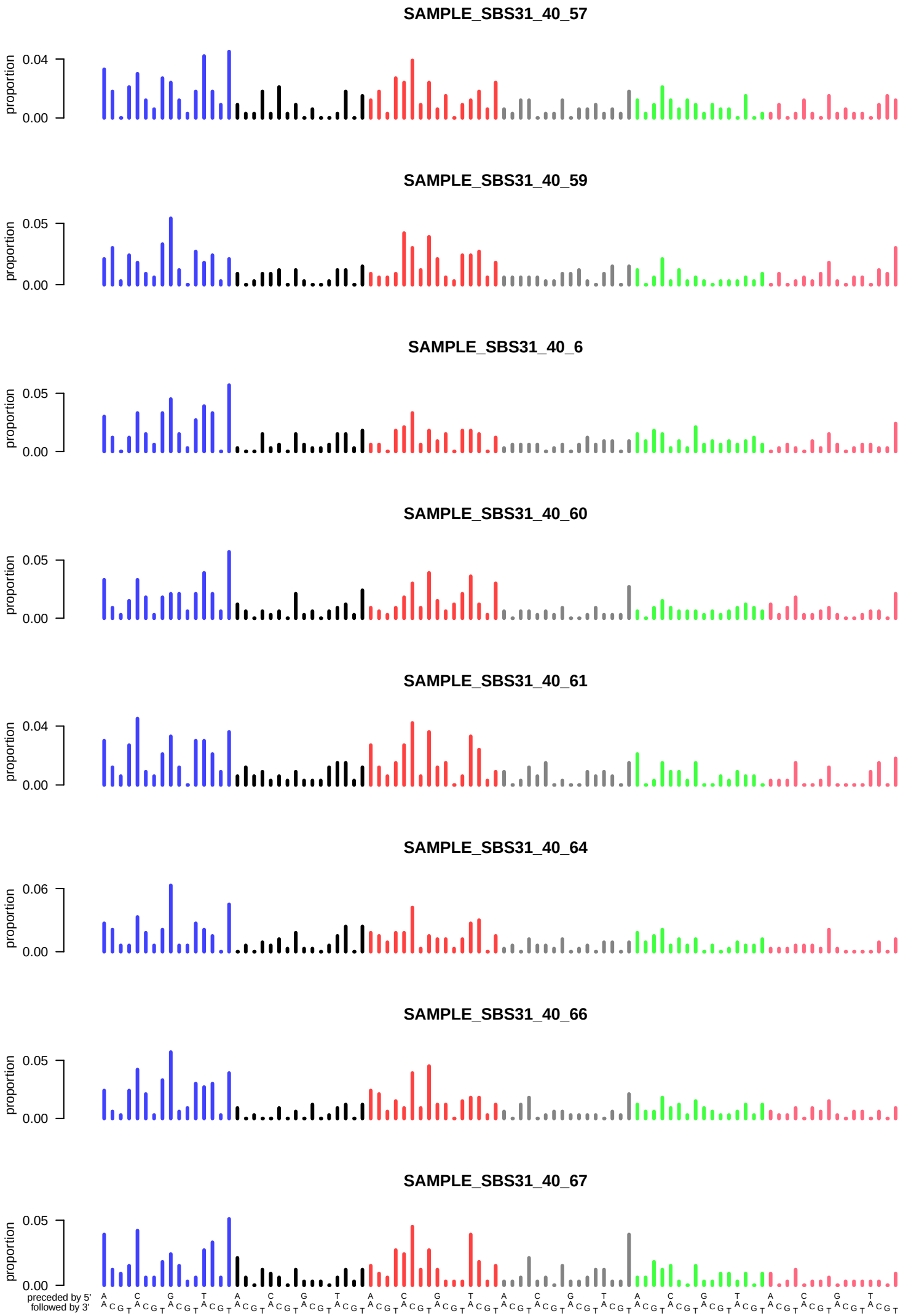
preceded by 5'
followed by 3'
A C G T A C G T A C G T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SAMPLE_SBS31_40_66
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preceded by 5'
followed by 3'
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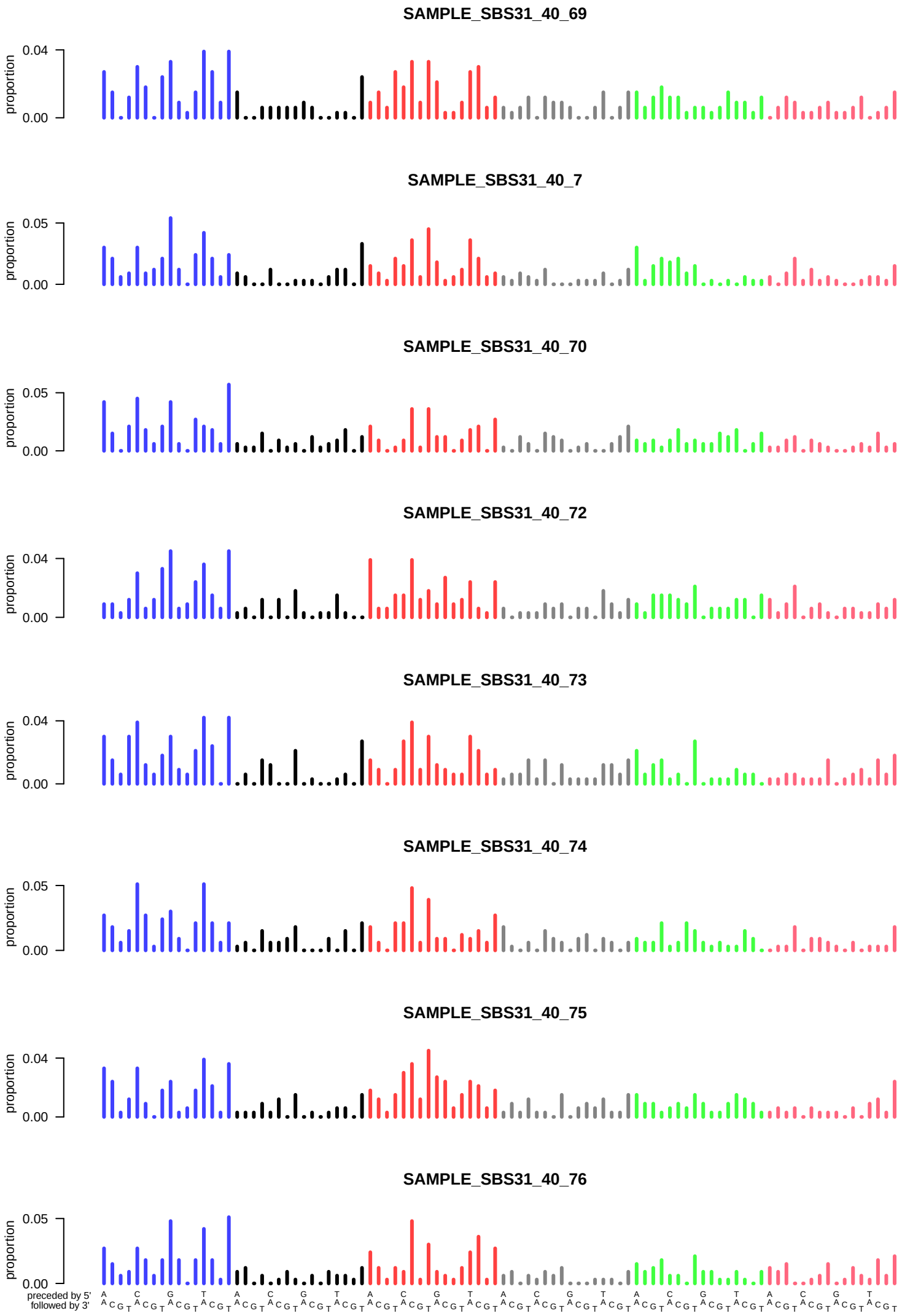
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SAMPLE_SBS31_40_73
SAMPLE_SBS31_40_74
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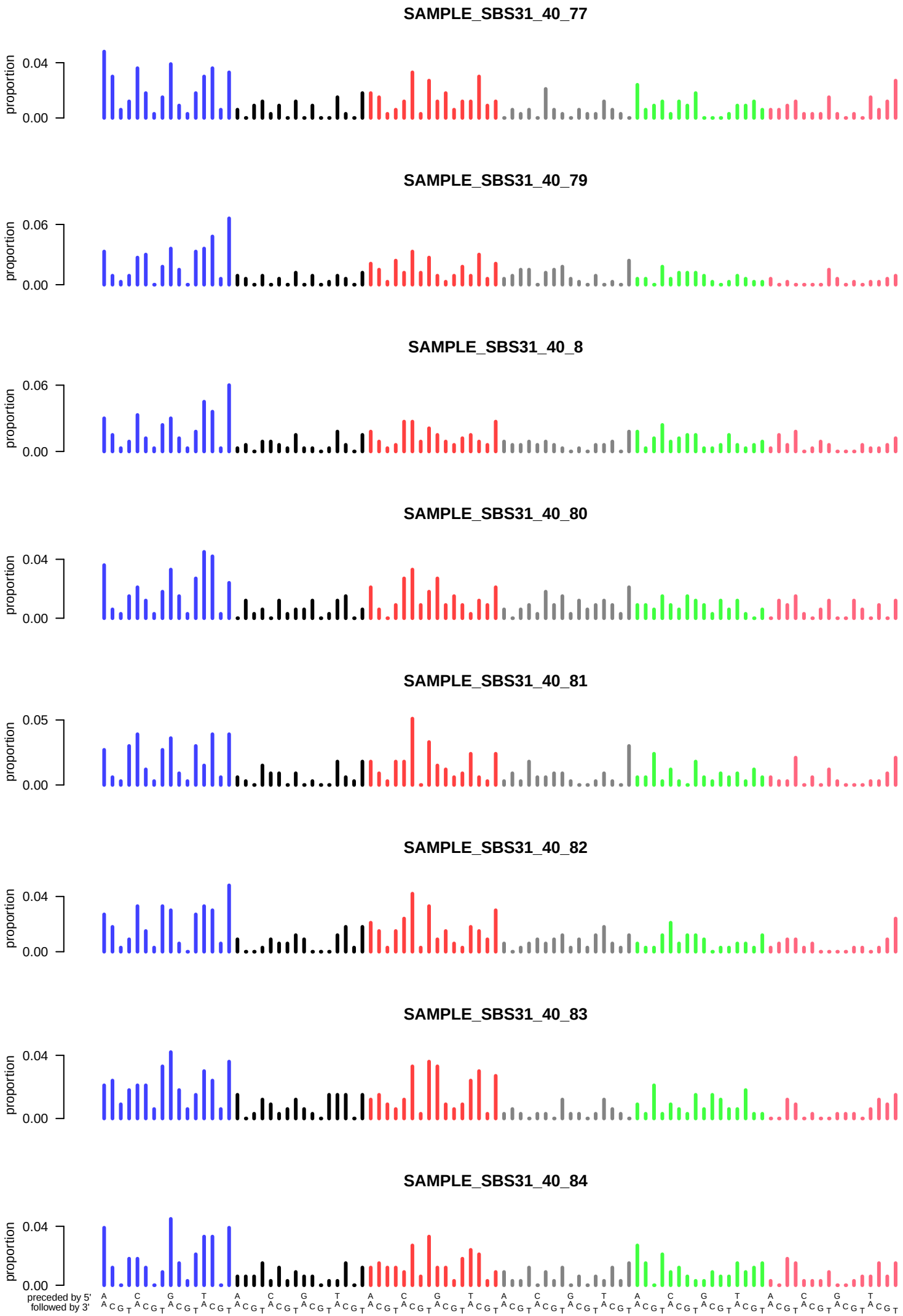
followed by 3'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SAMPLE_SBS31_40_83
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followed by 3'
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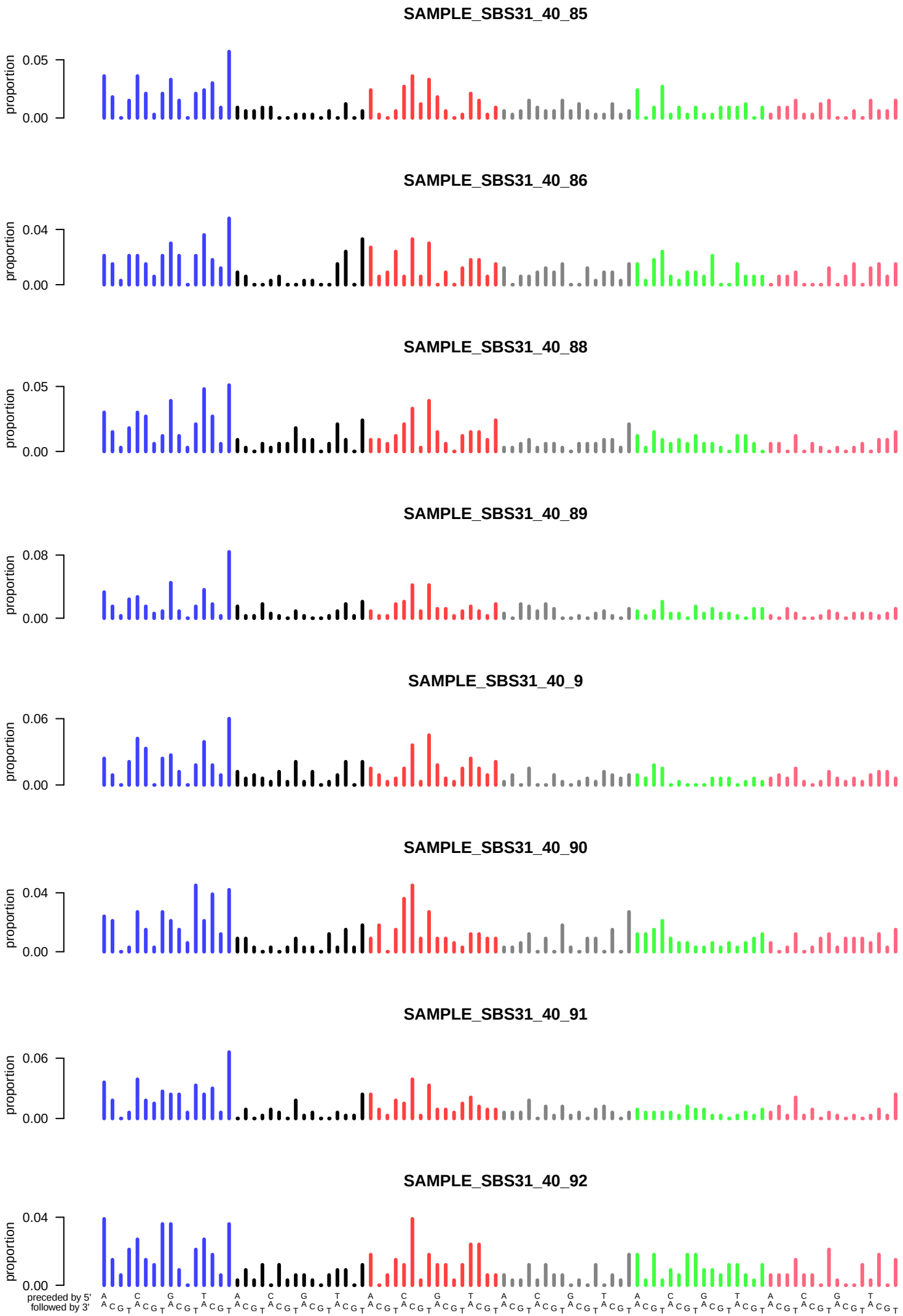
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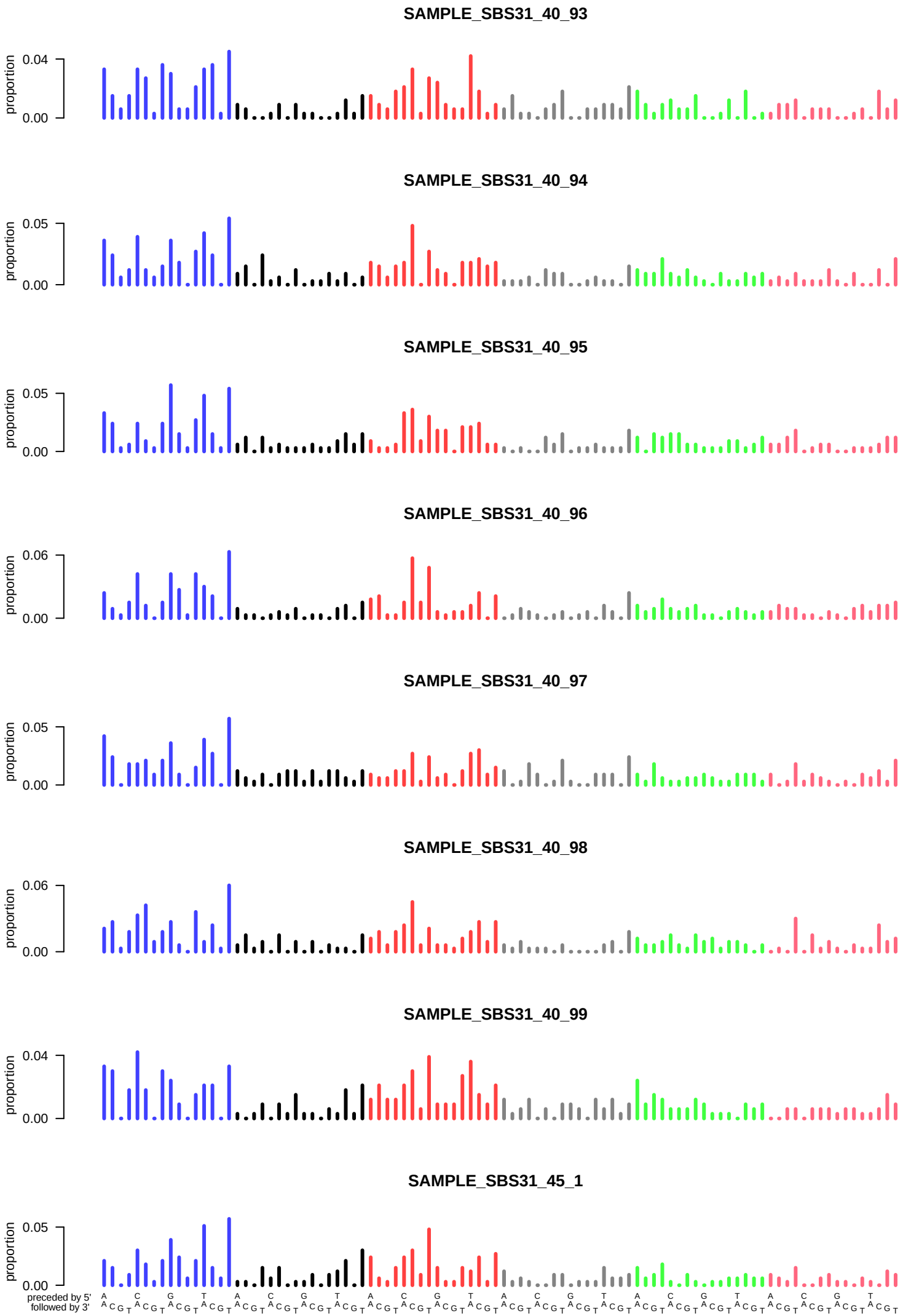
followed by 3'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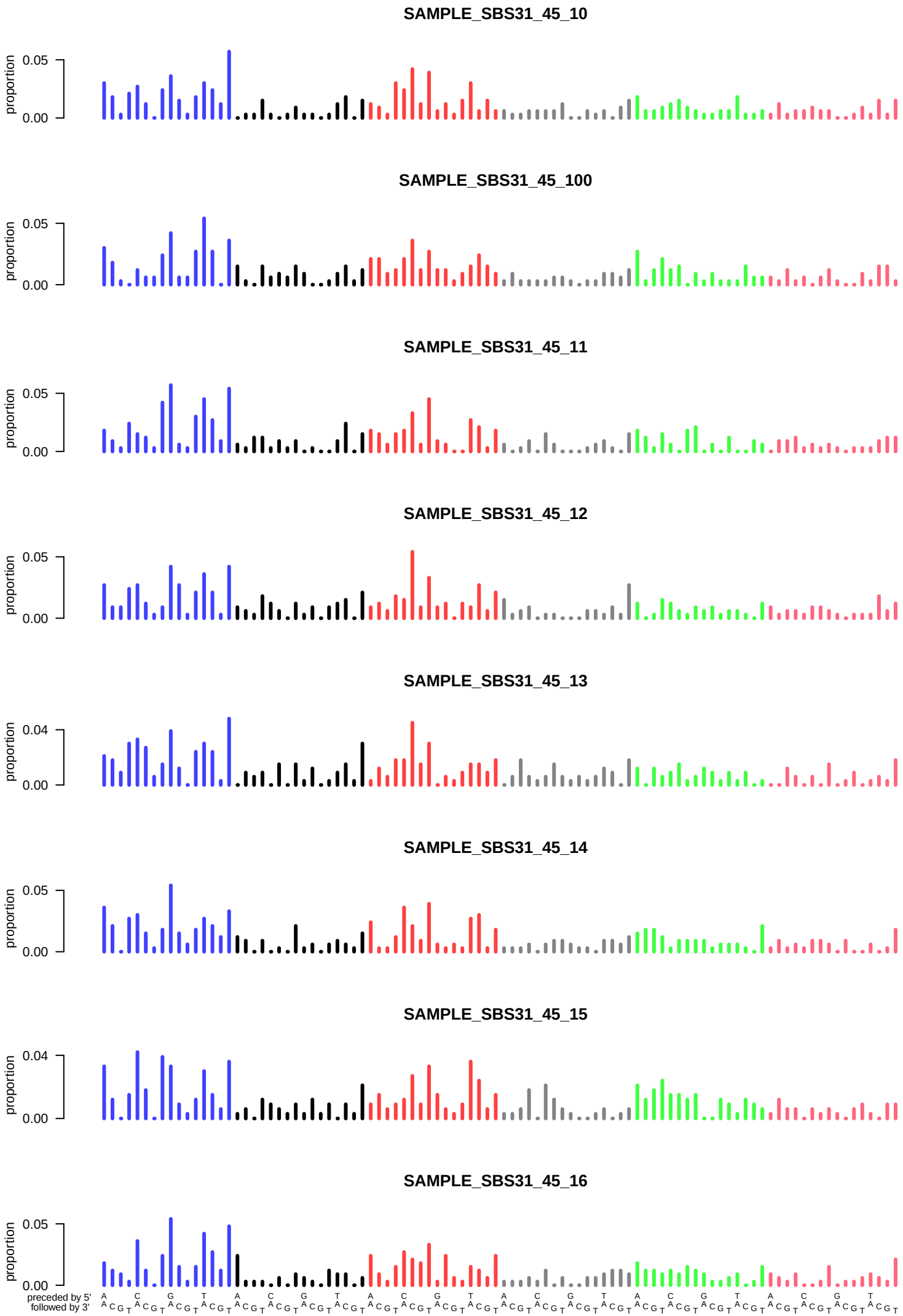
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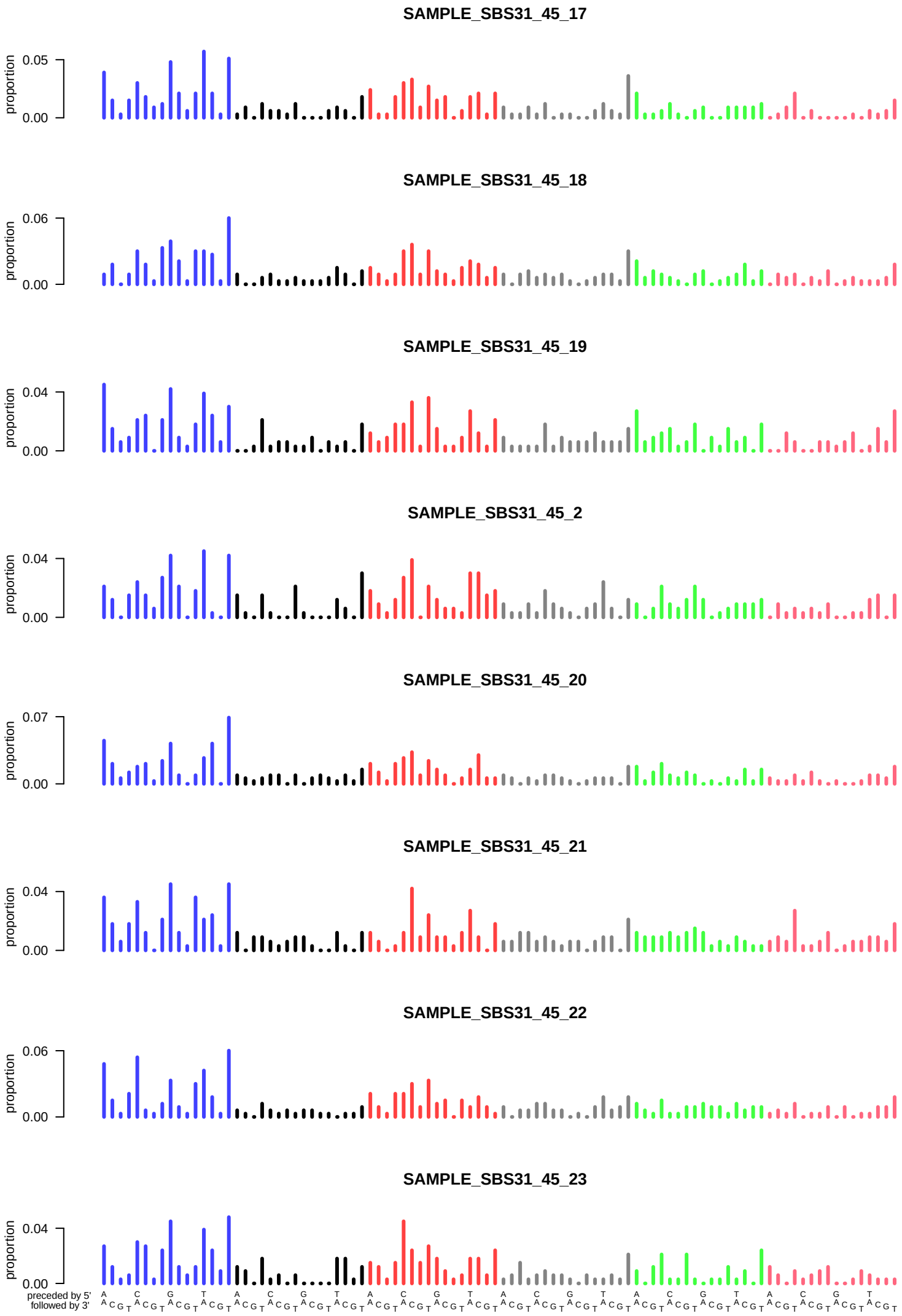
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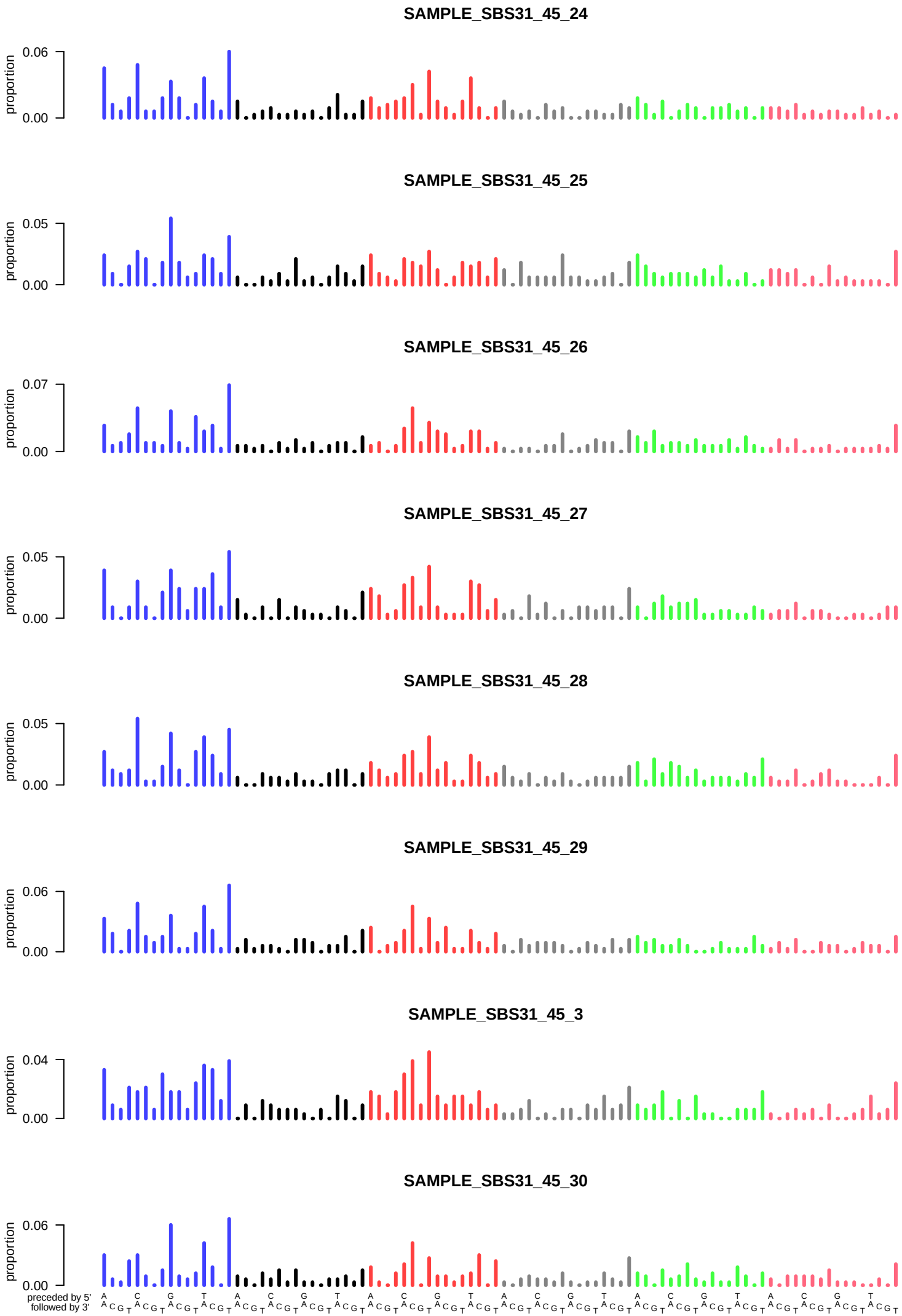
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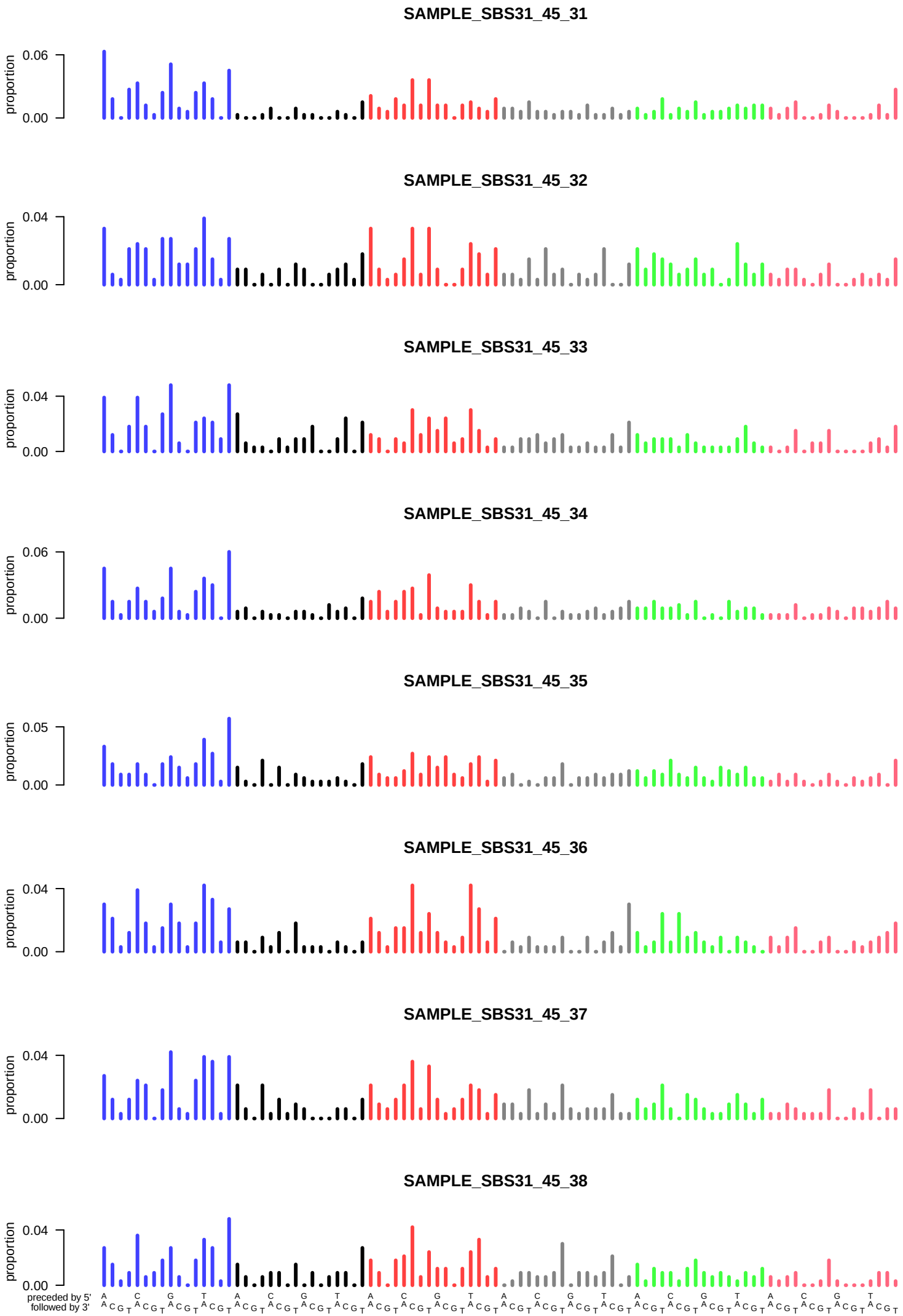
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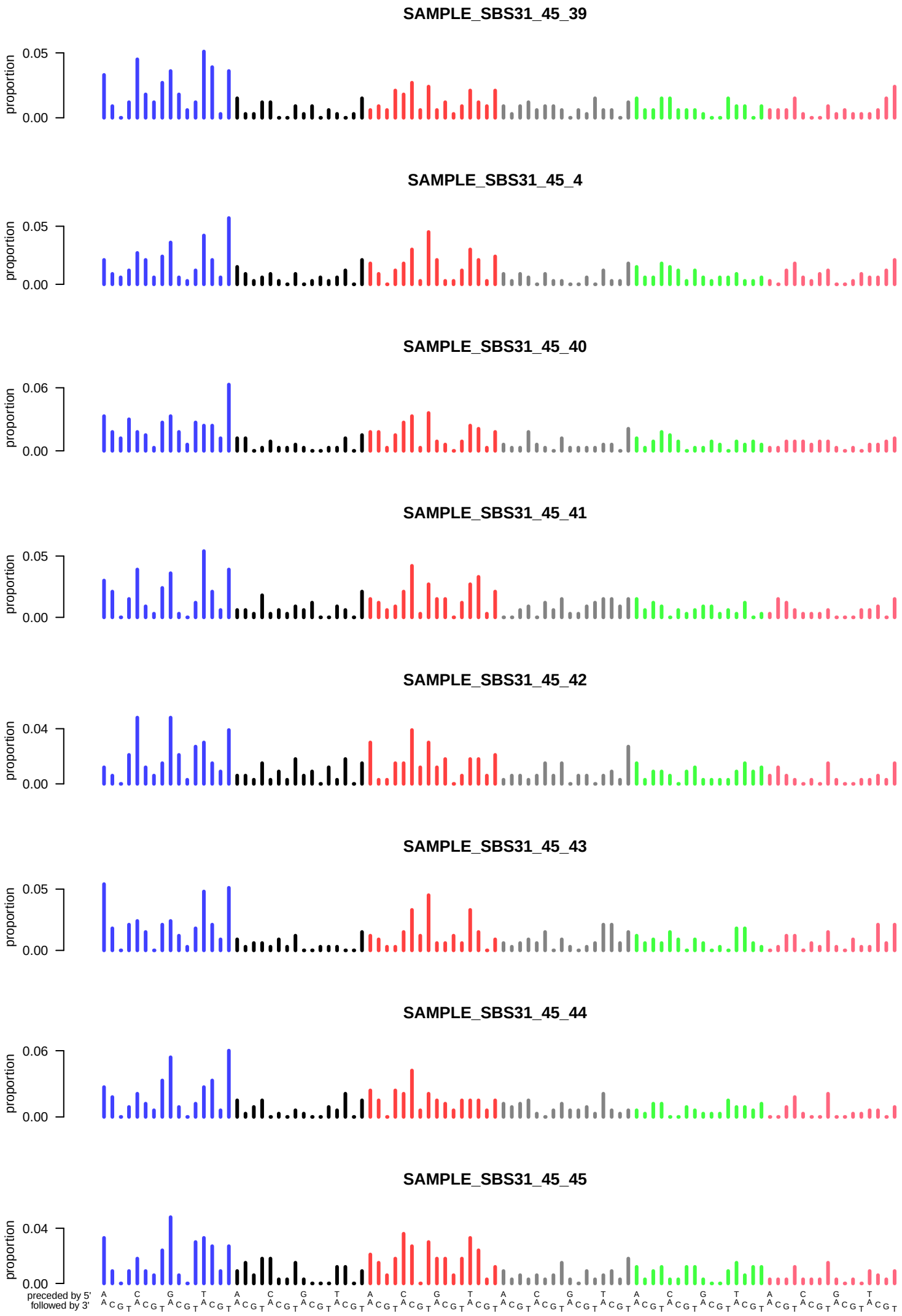
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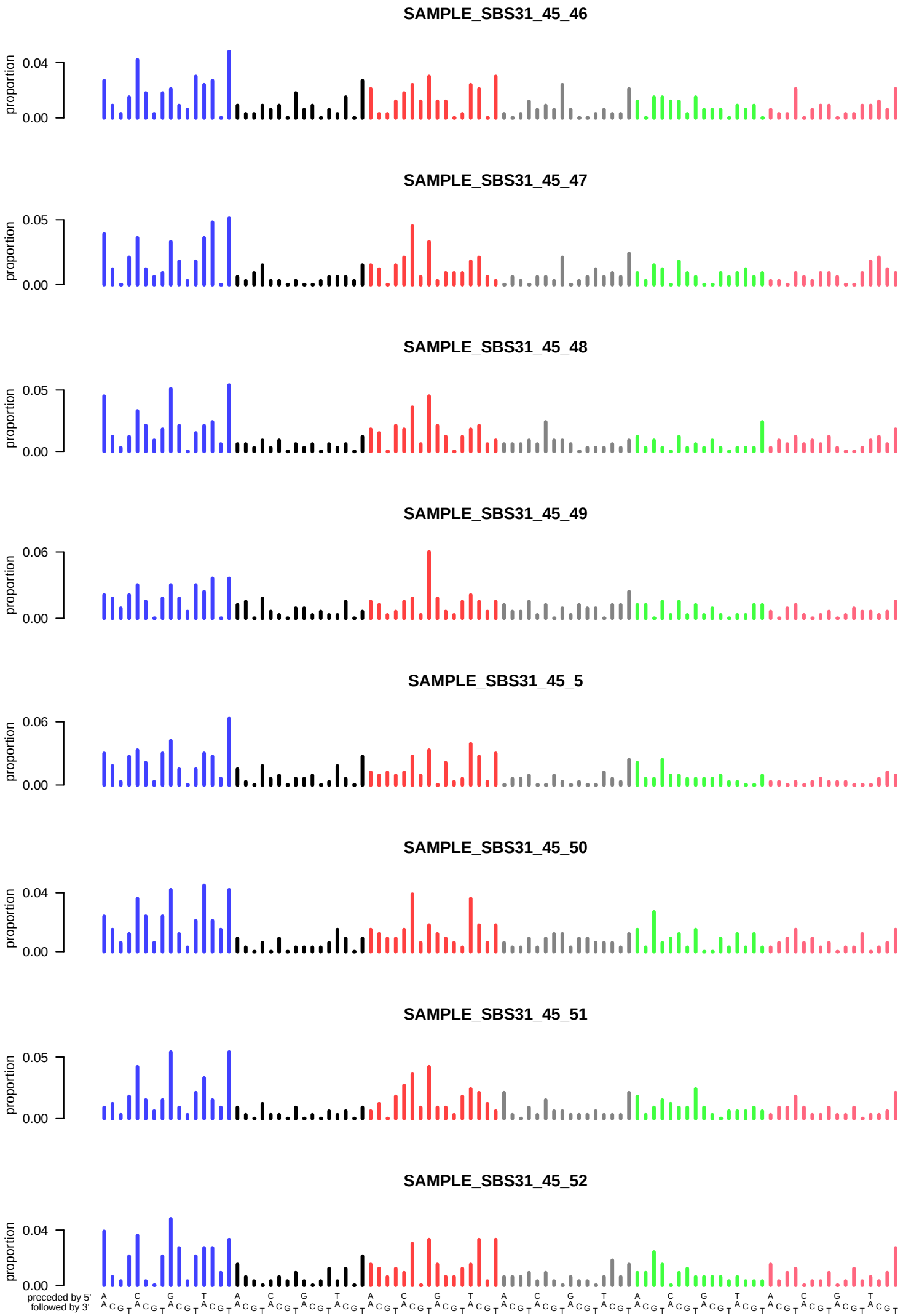
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SAMPLE_SBS31_45_51
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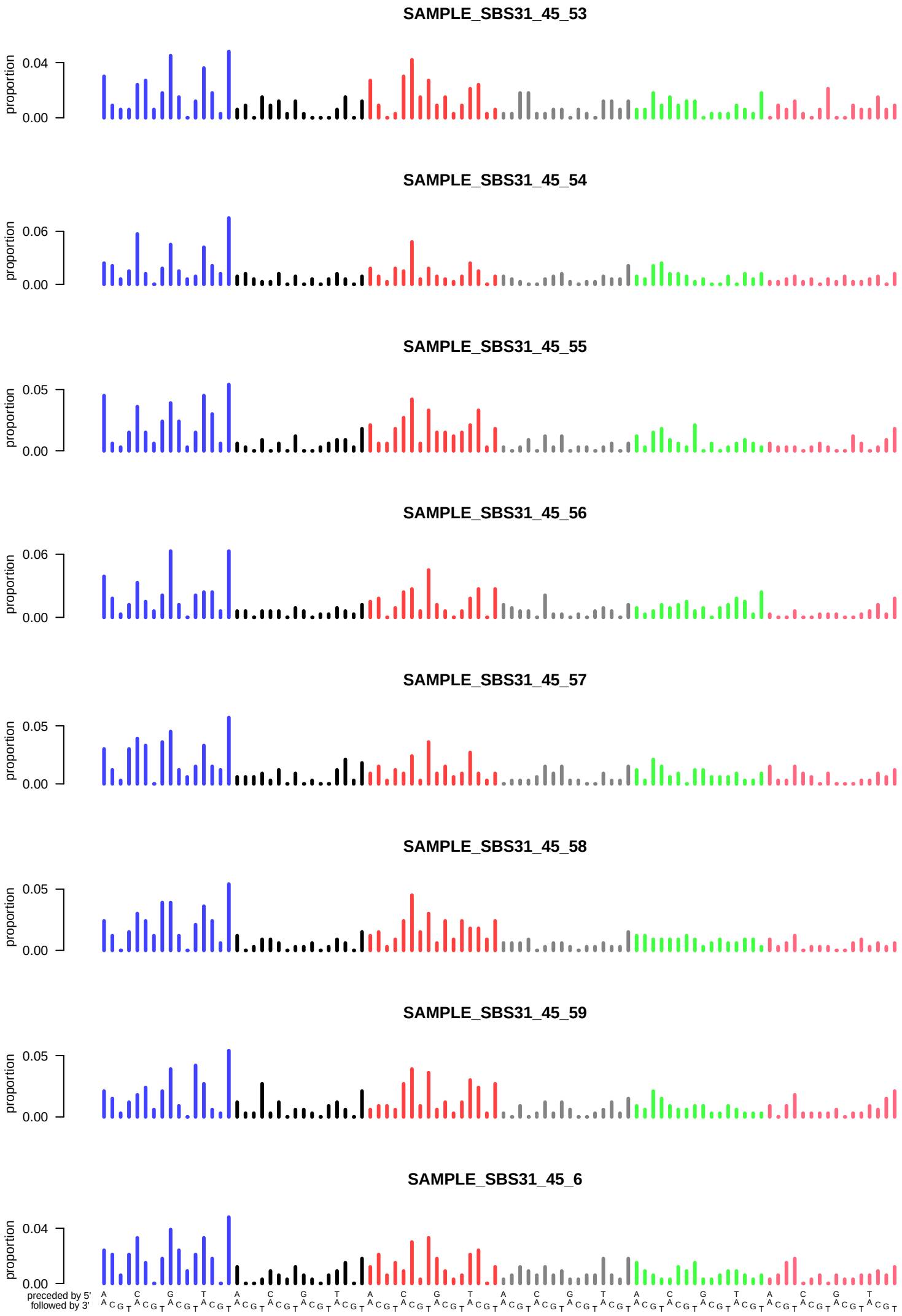
followed by 3'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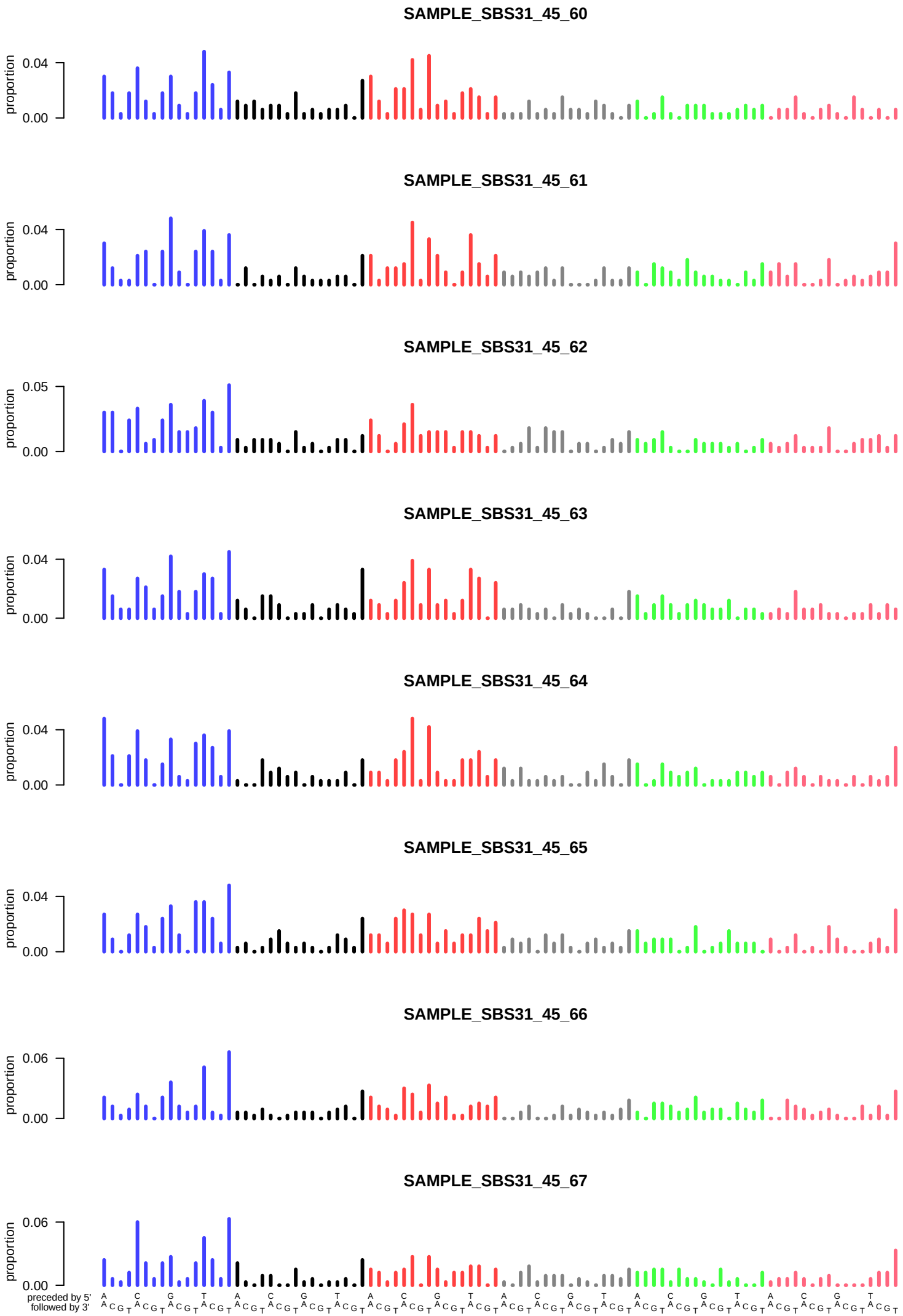
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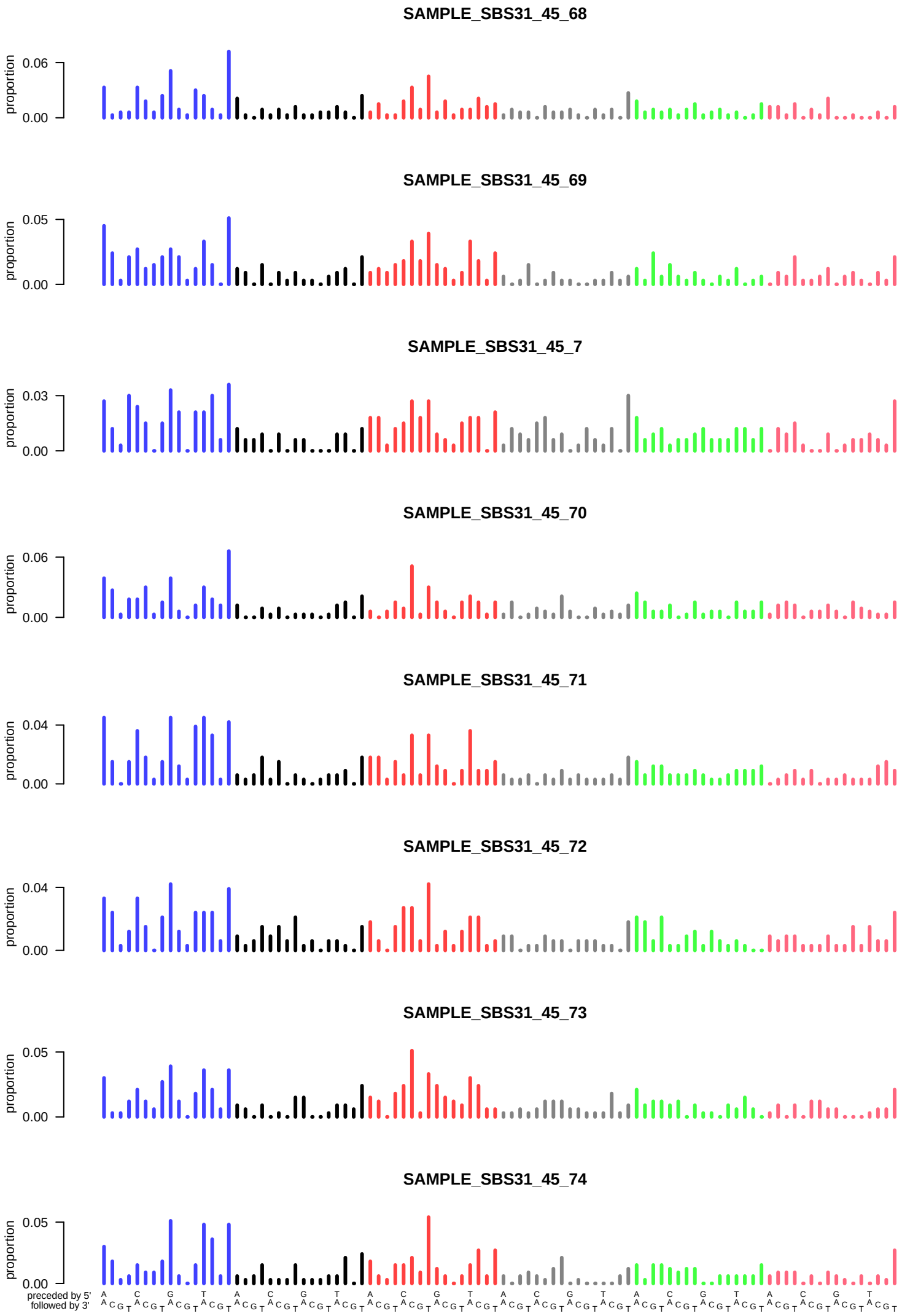
followed by 3'
A C G T A C G T A C G T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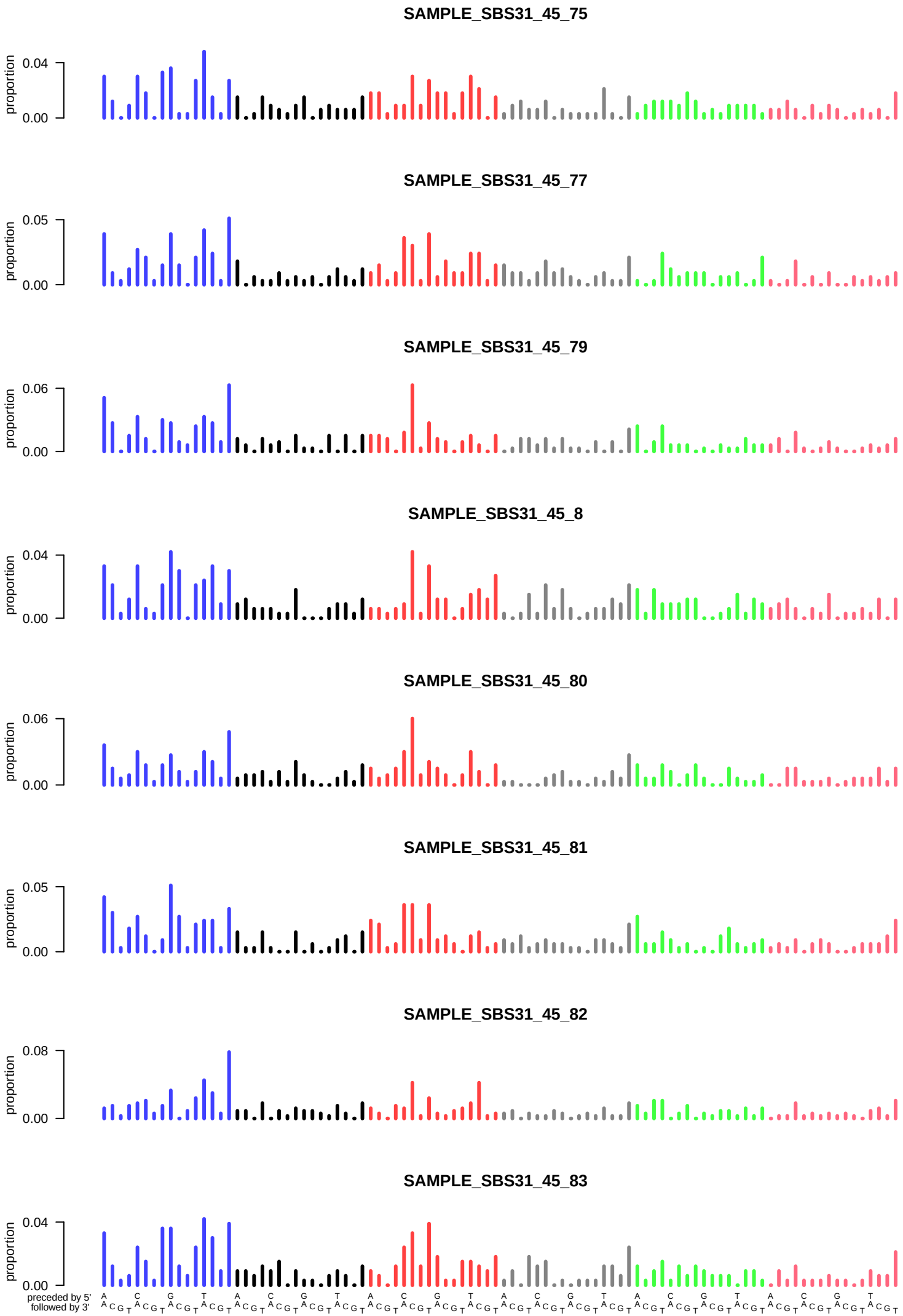
followed by 3'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SAMPLE_SBS31_45_79
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SAMPLE_SBS31_45_8
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SAMPLE_SBS31_45_80
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SAMPLE_SBS31_45_81
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SAMPLE_SBS31_45_82
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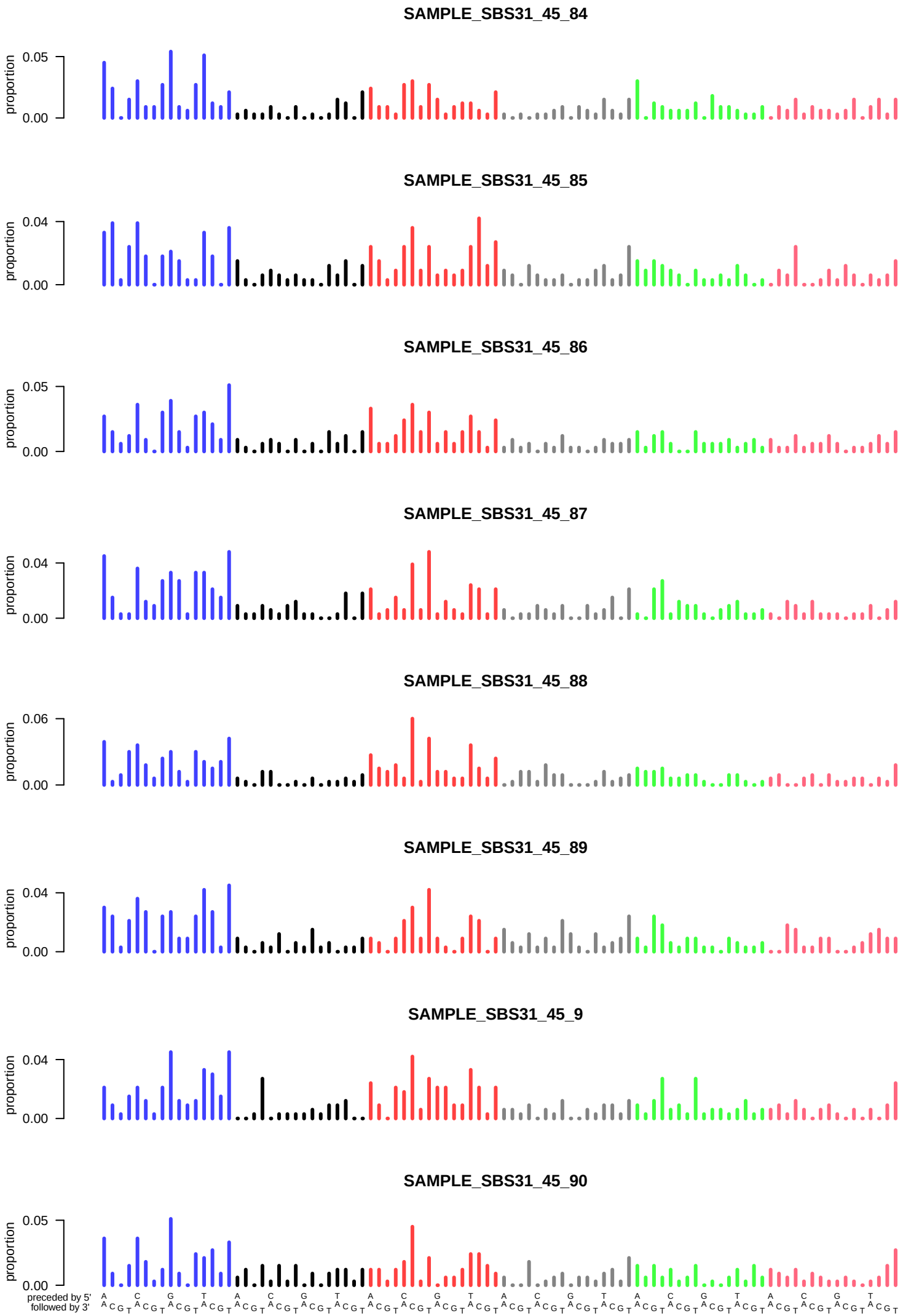
followed by 3'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SAMPLE_SBS31_45_87
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SAMPLE_SBS31_45_88
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SAMPLE_SBS31_45_9
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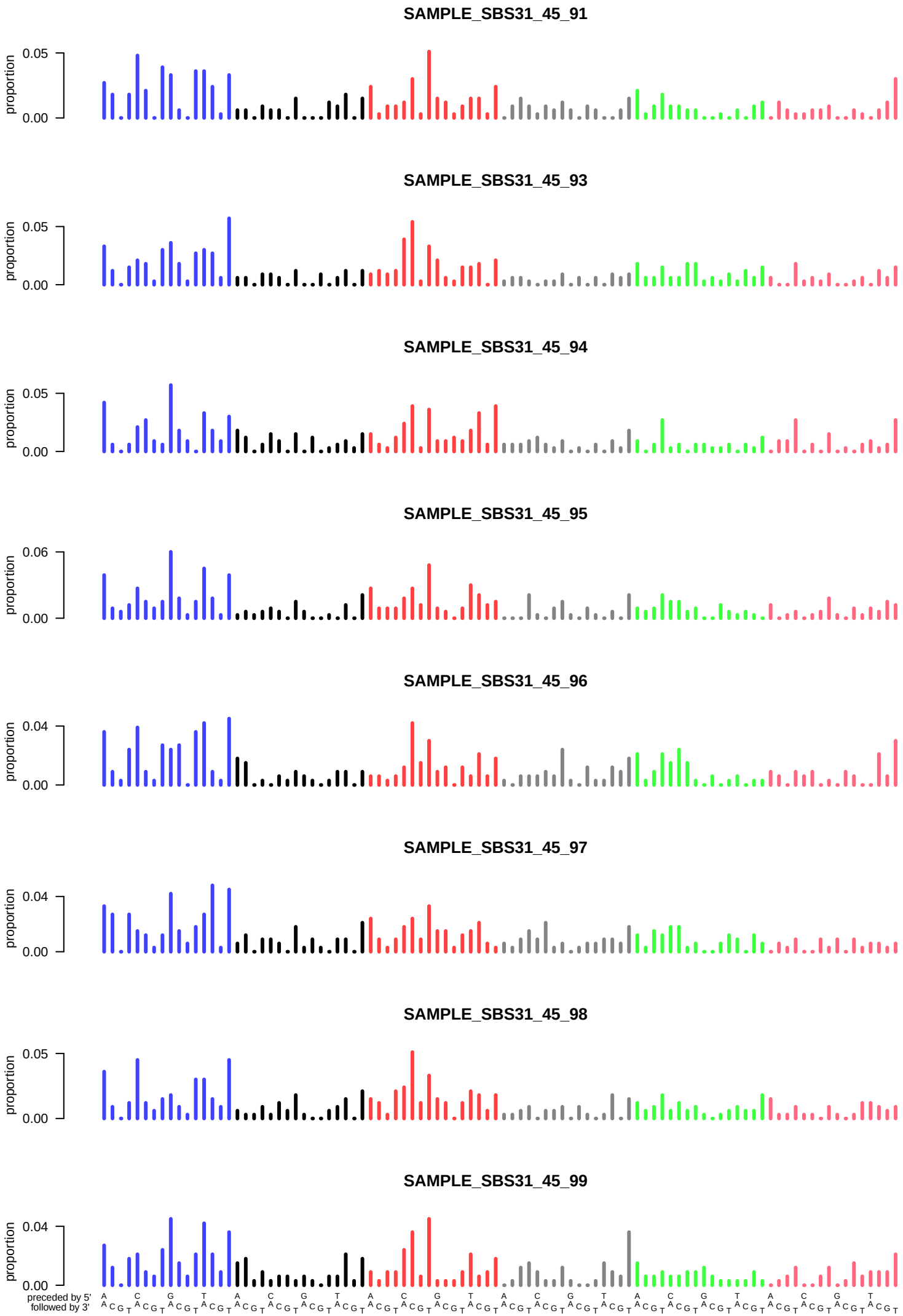
followed by 3'
A C G T A C G T A C G T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proportion
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SAMPLE_SBS31_45_96
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SAMPLE_SBS31_45_97
proportion
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SAMPLE_SBS31_45_98
proportion
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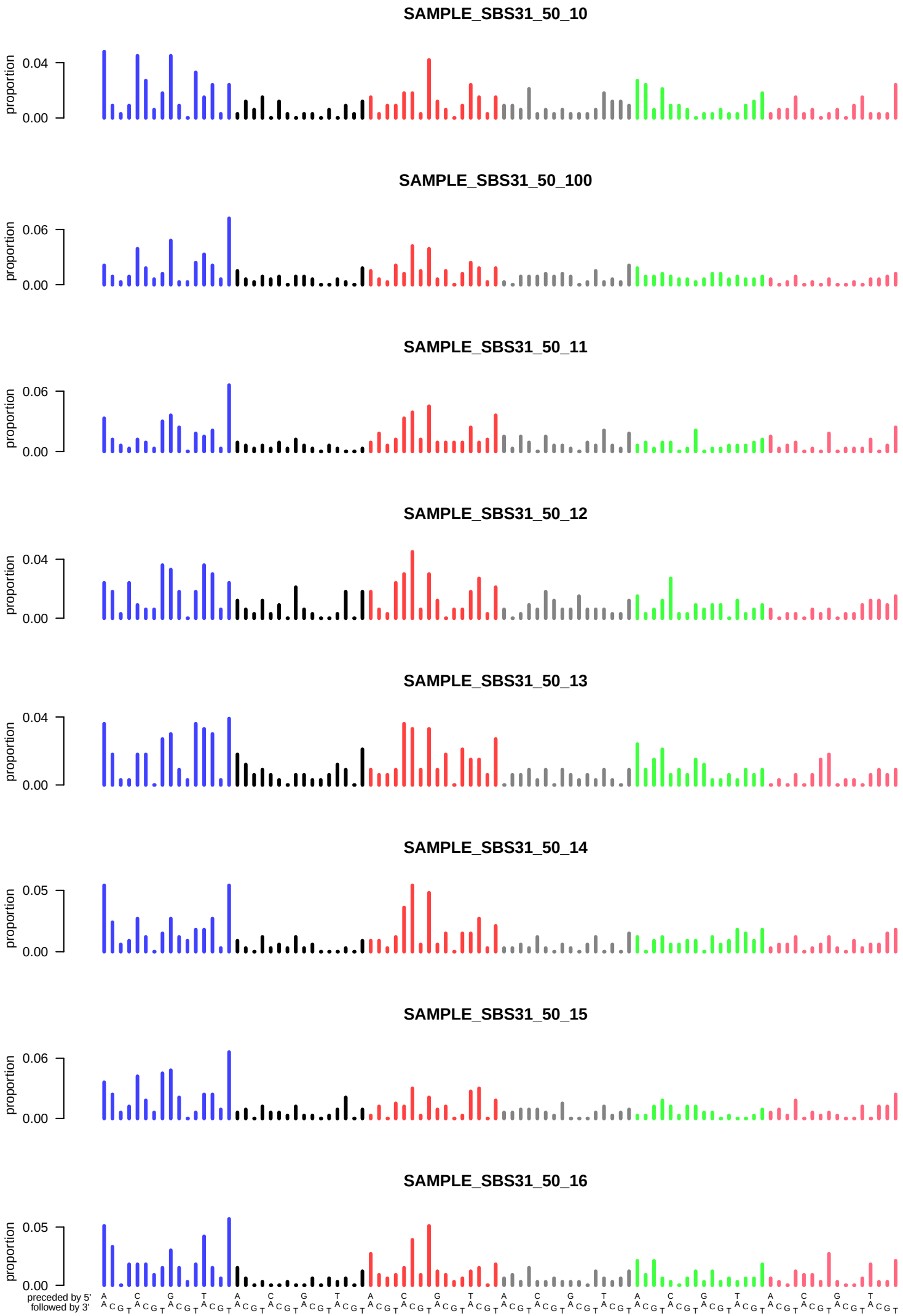
followed by 3'
A C G T A C G T A C G T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SAMPLE_SBS31_50_14
proportion
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SAMPLE_SBS31_50_15
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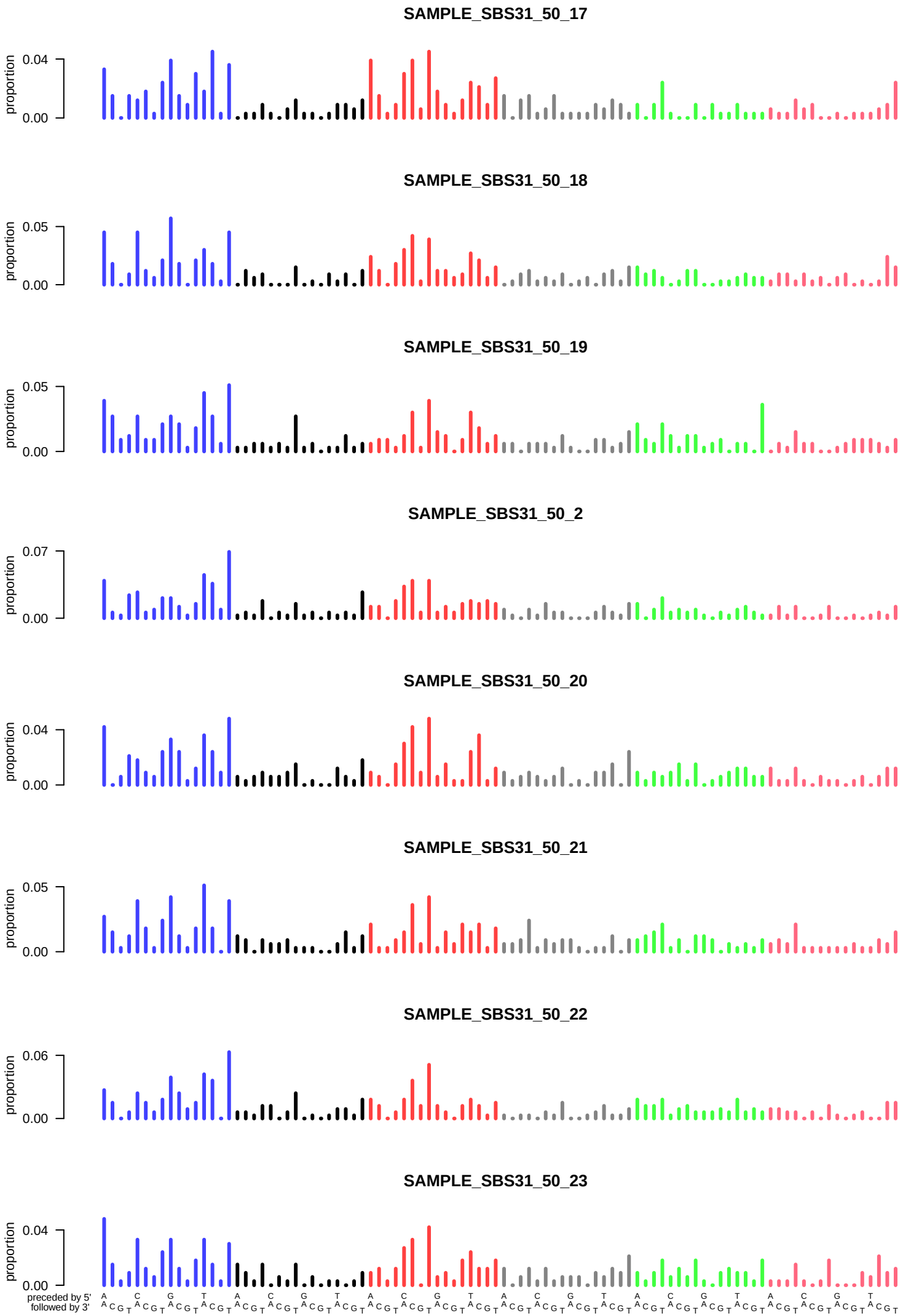
followed by 3'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SAMPLE_SBS31_50_22
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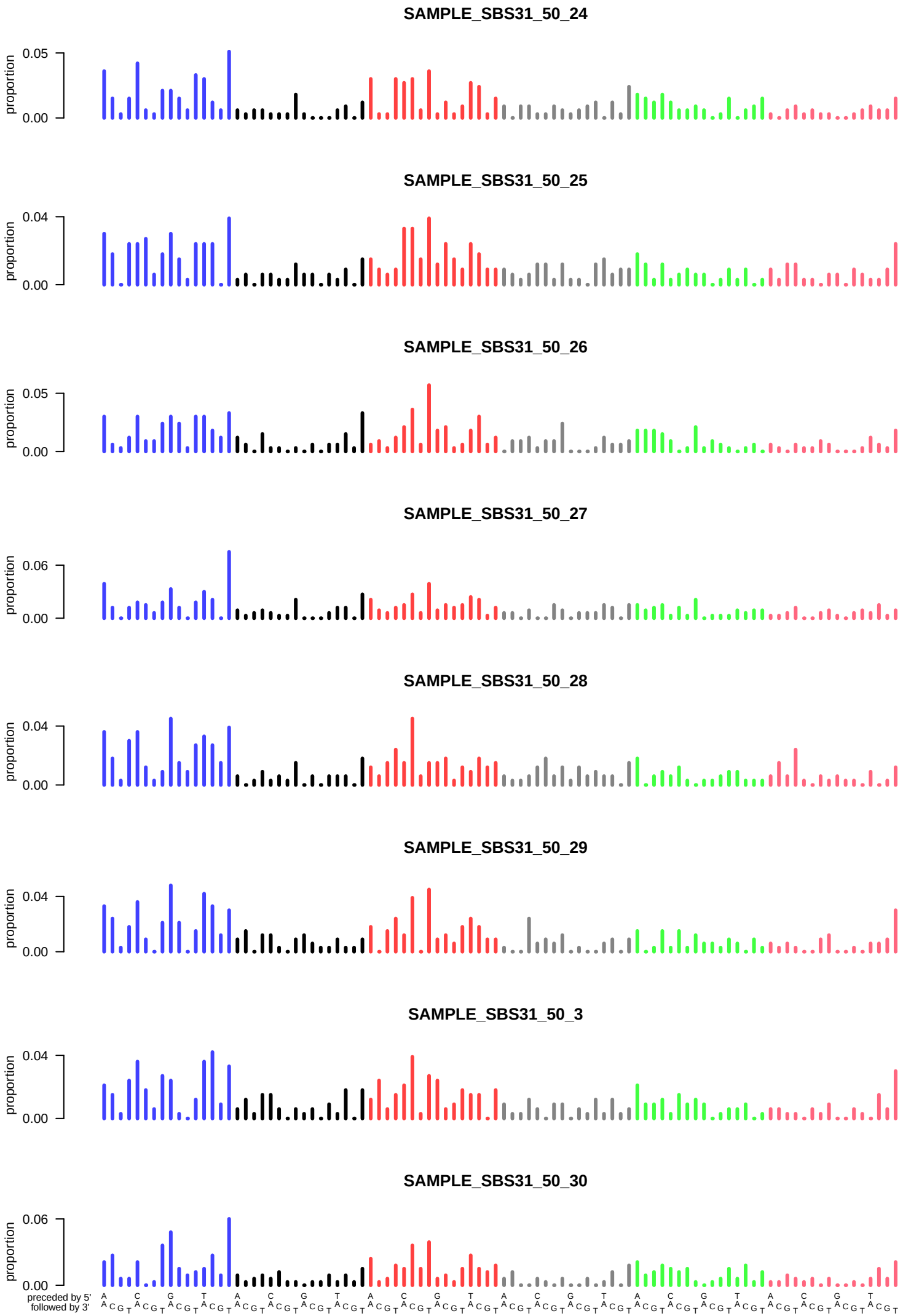
followed by 3'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SAMPLE_SBS31_50_29
proportion
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SAMPLE_SBS31_50_3
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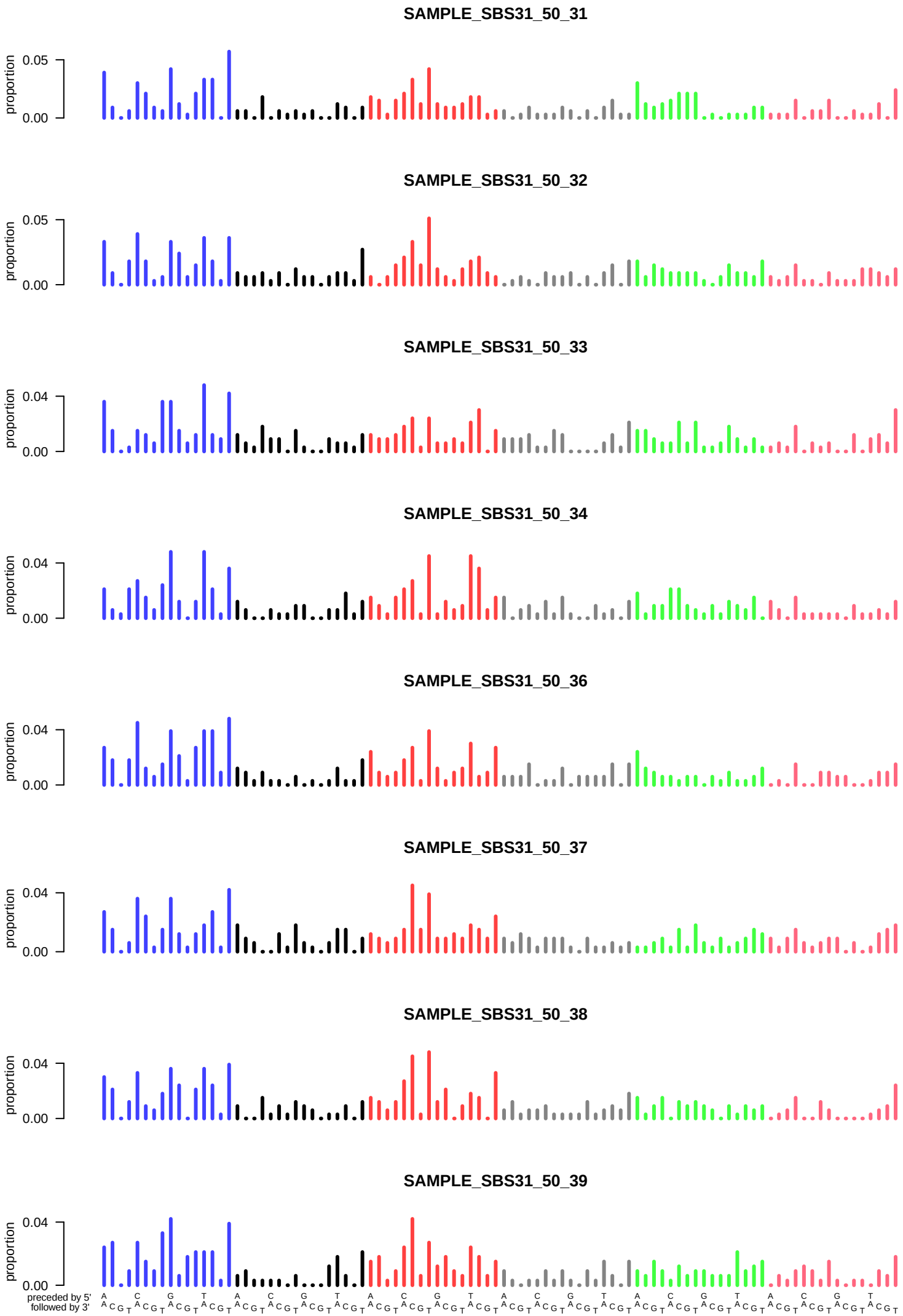
followed by 3'
A C G T A C G T A C G T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SAMPLE_SBS31_50_34
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SAMPLE_SBS31_50_37
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SAMPLE_SBS31_50_38
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preceded by 5'
followed by 3'
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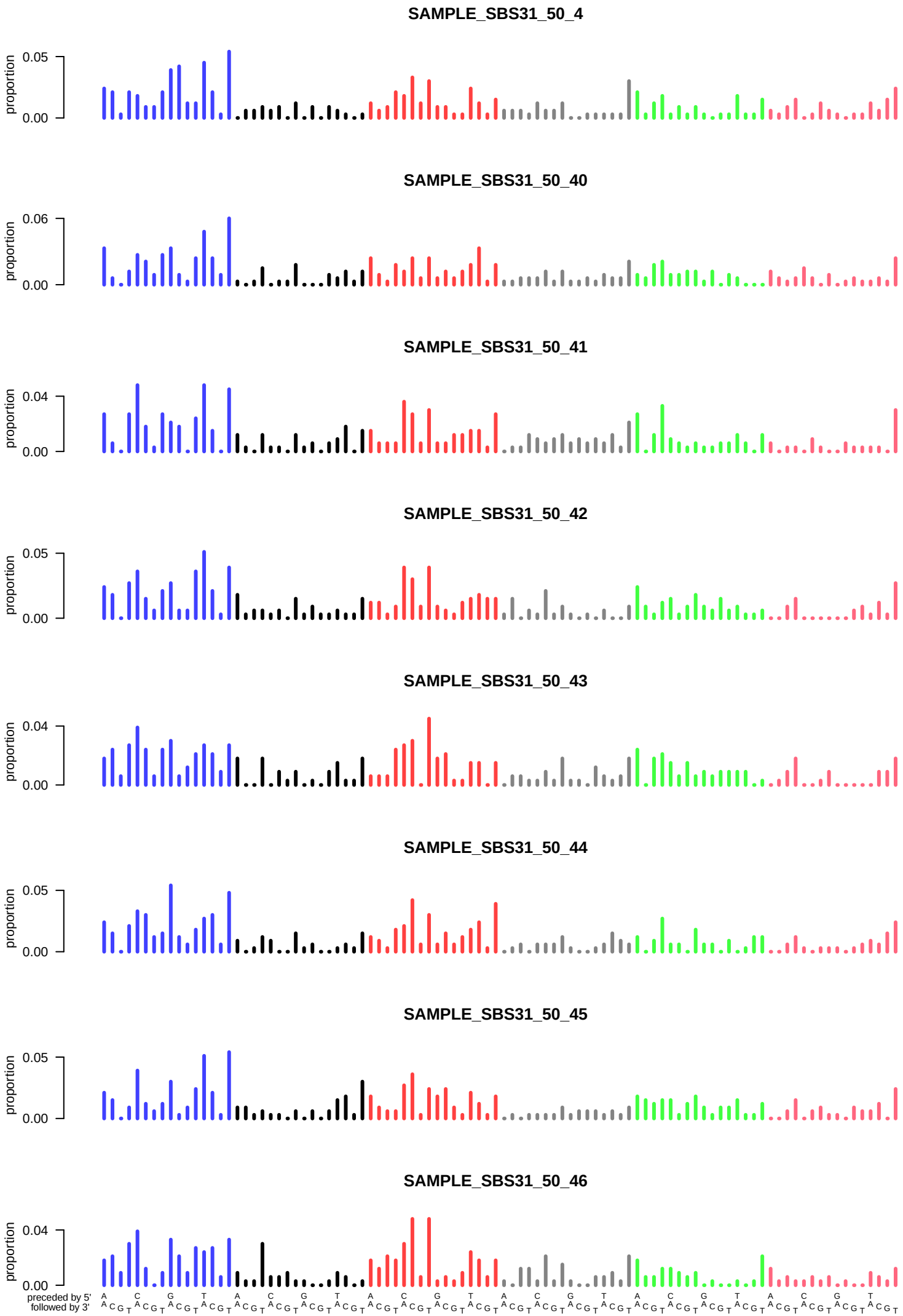
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SAMPLE_SBS31_50_45
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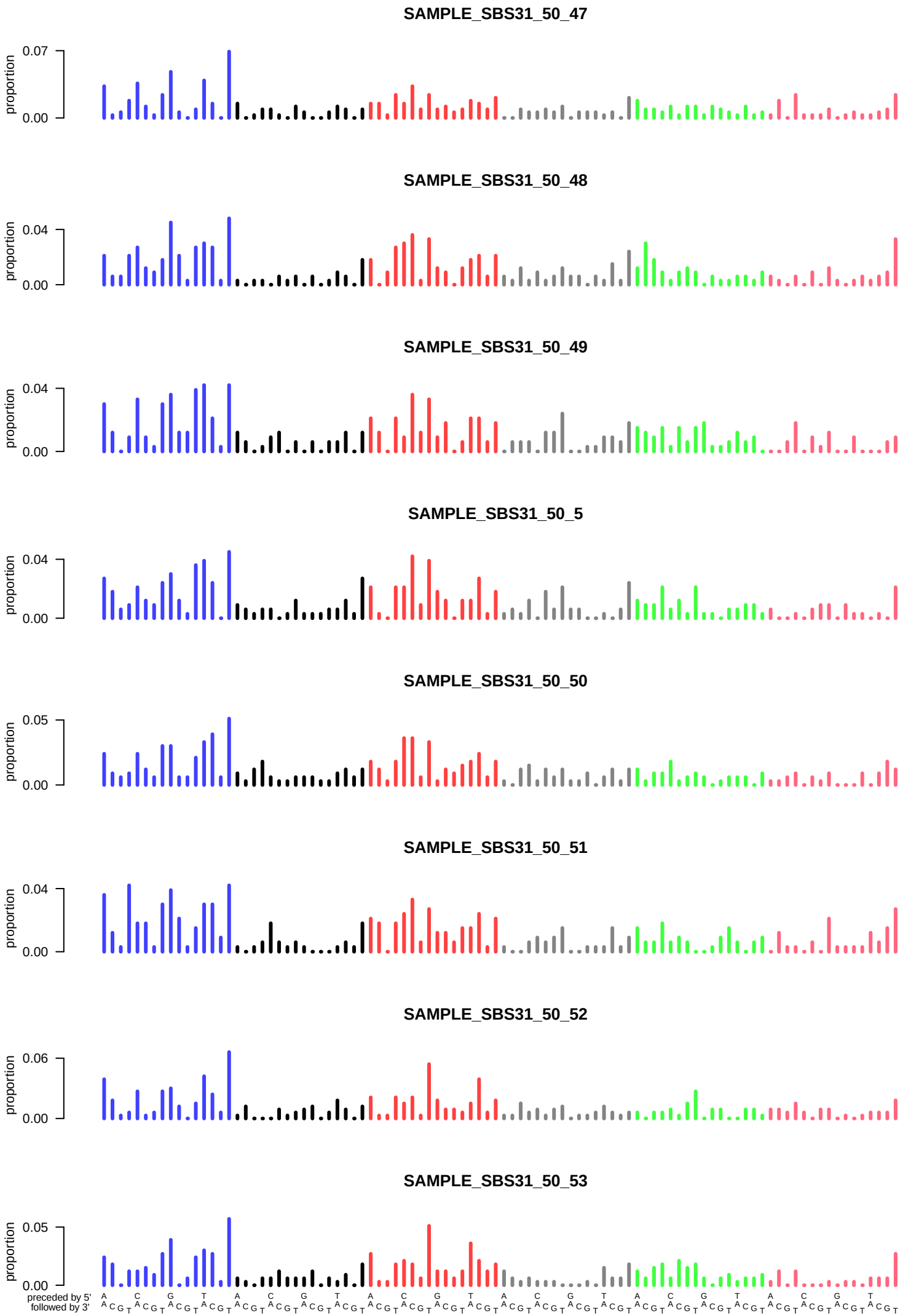
followed by 3'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SAMPLE_SBS31_50_5
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SAMPLE_SBS31_50_50
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SAMPLE_SBS31_50_51
proportion
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SAMPLE_SBS31_50_52
proportion
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followed by 3'
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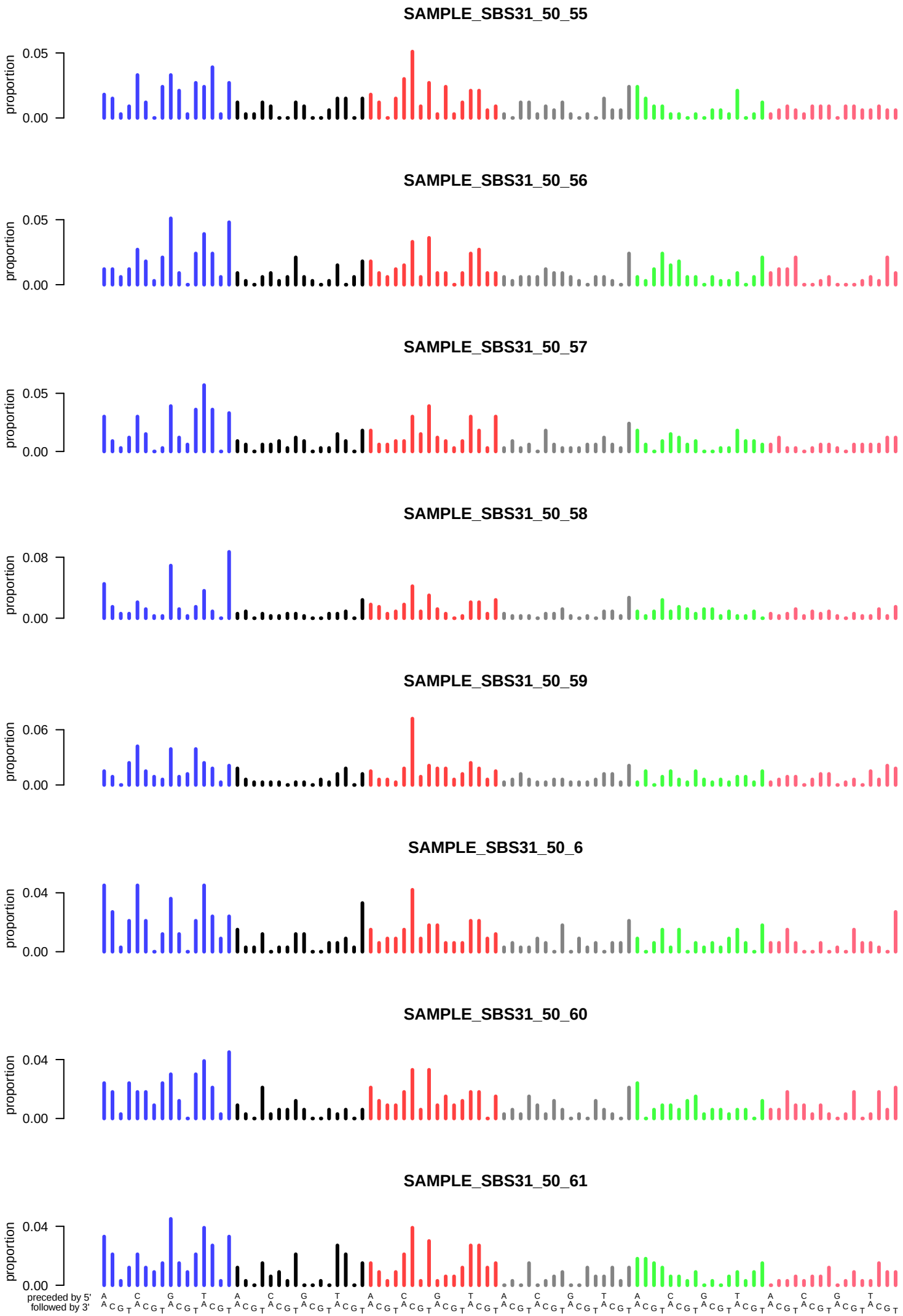
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followed by 3'
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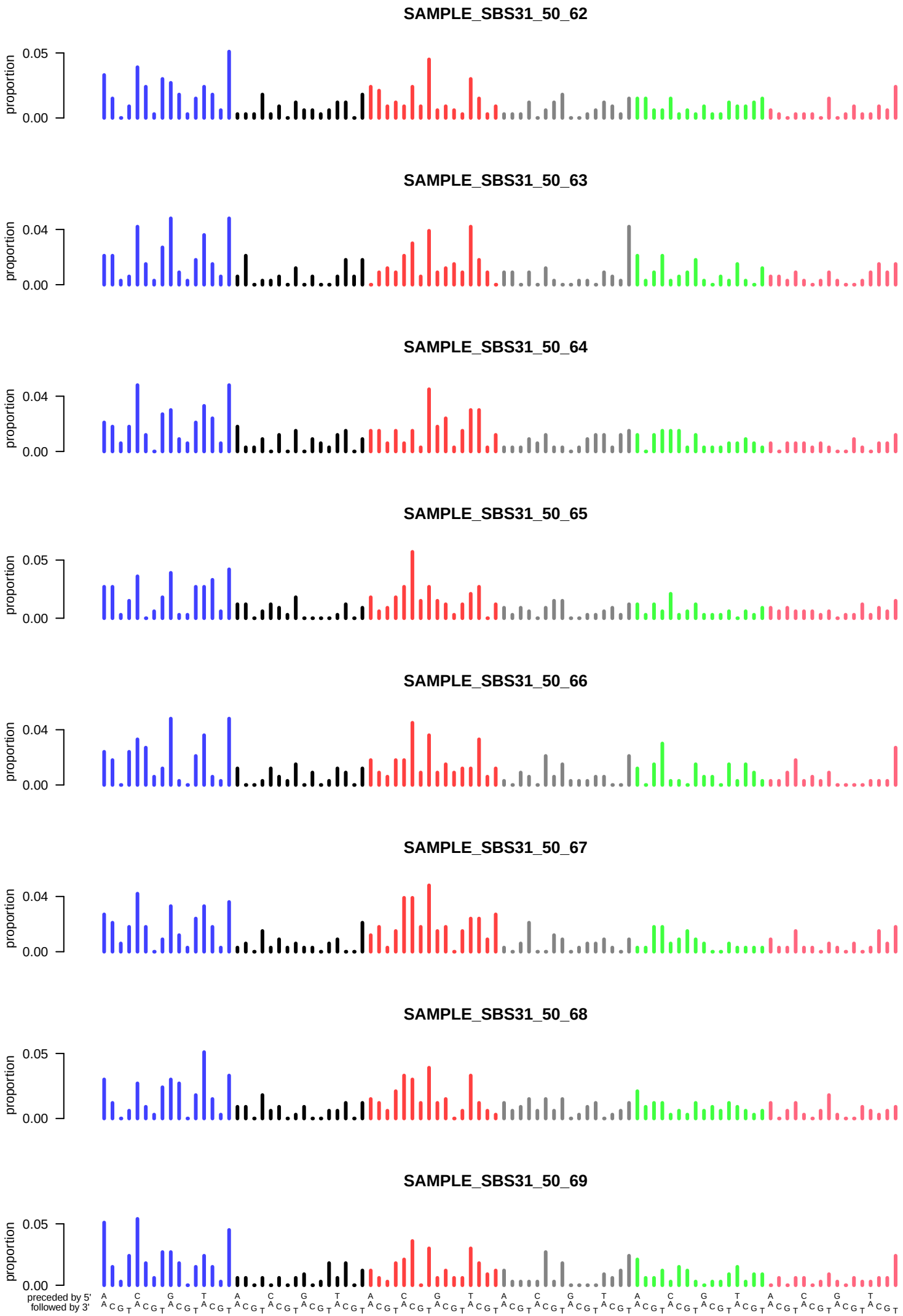
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SAMPLE_SBS31_50_67
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followed by 3'
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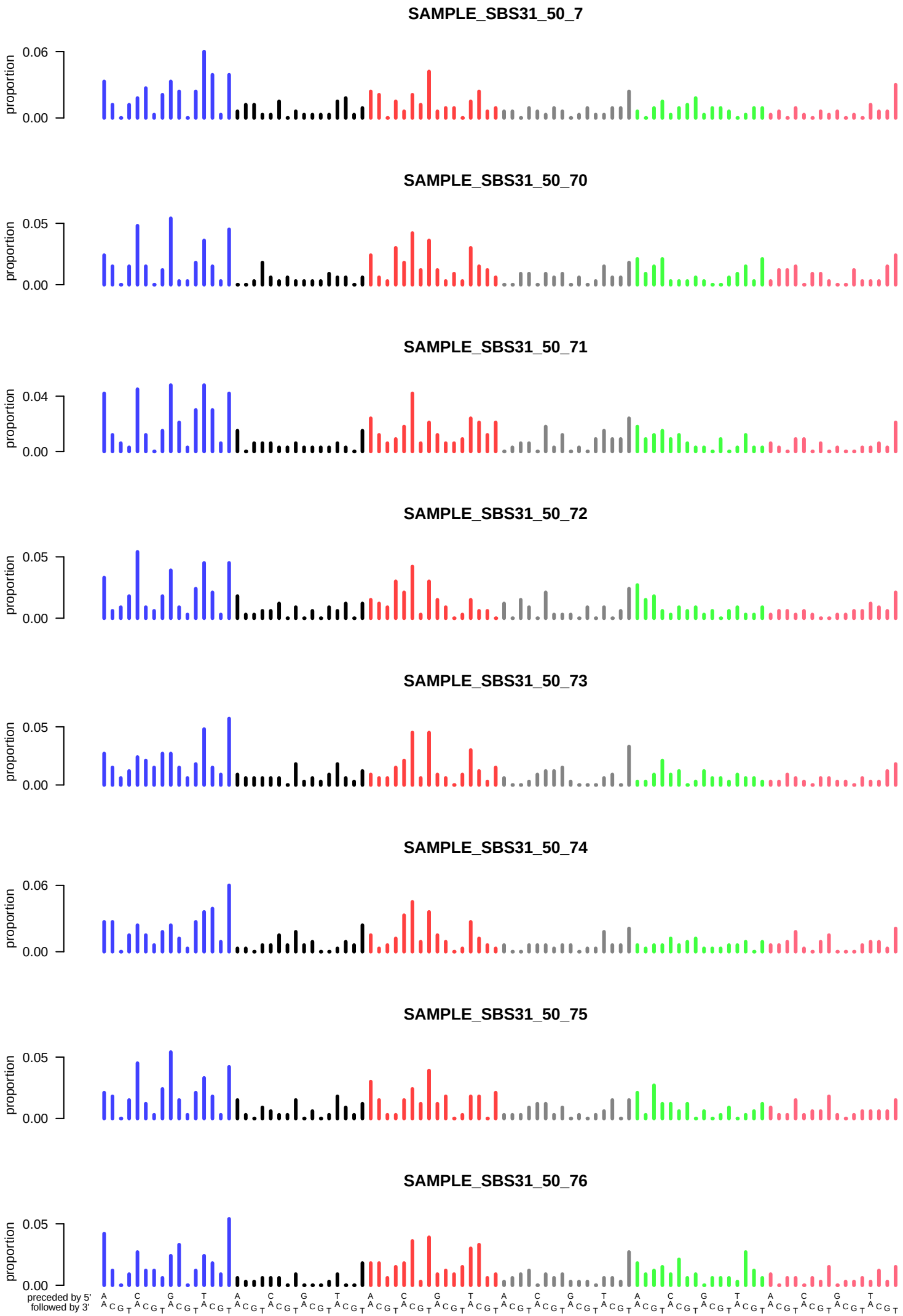
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SAMPLE_SBS31_50_74
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SAMPLE_SBS31_50_75
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followed by 3'
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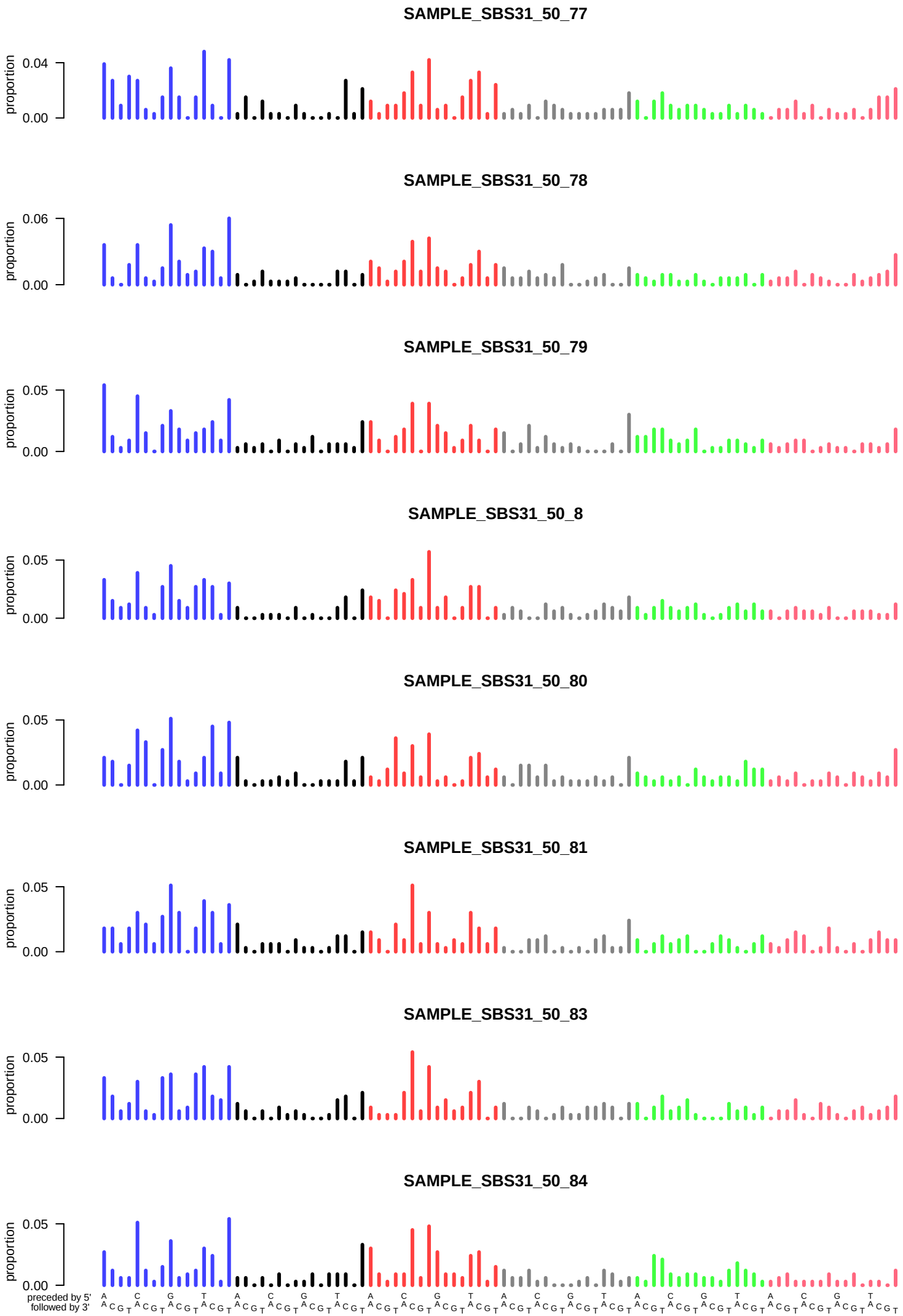
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SAMPLE_SBS31_50_83
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followed by 3'
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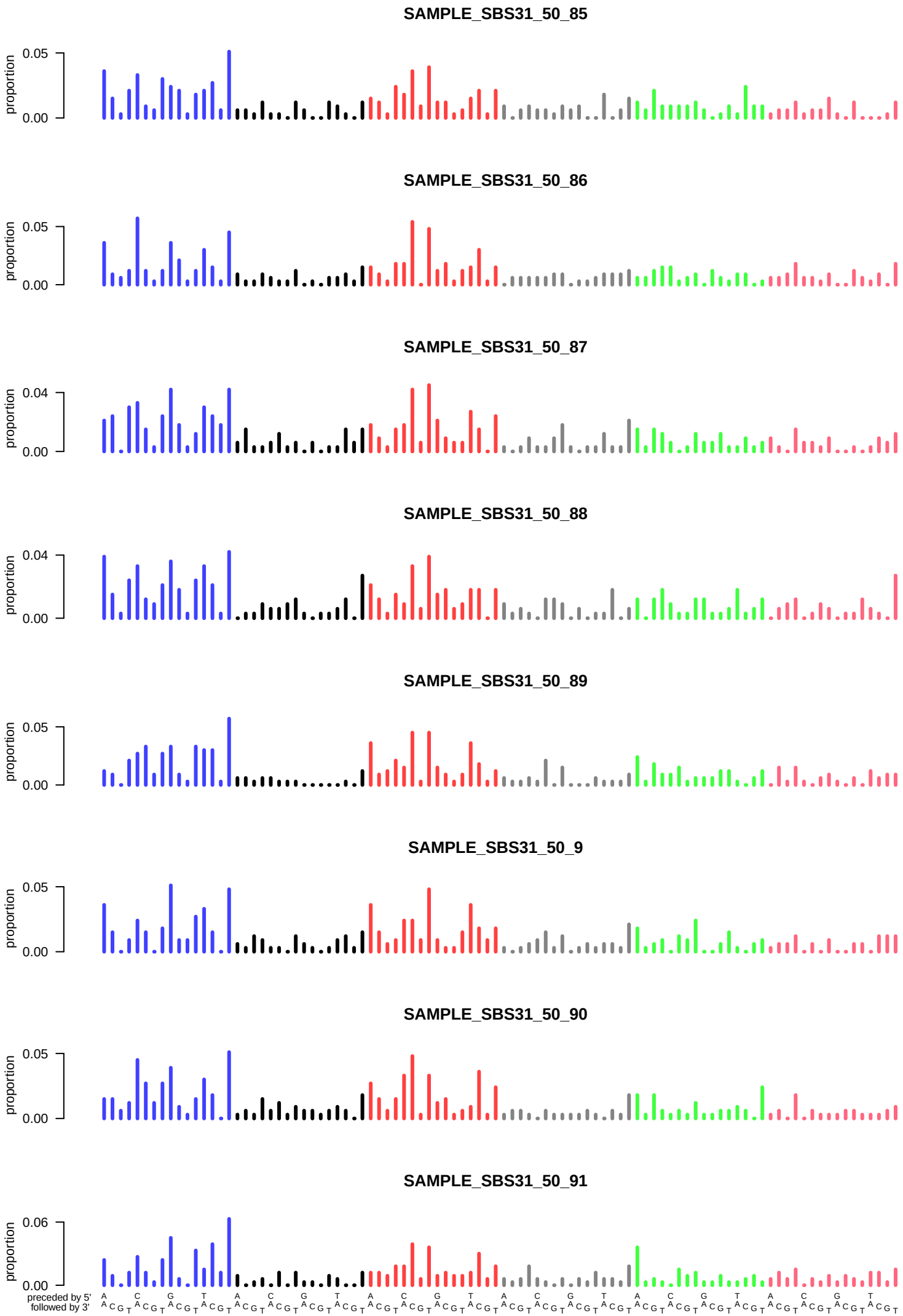
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SAMPLE_SBS31_50_90
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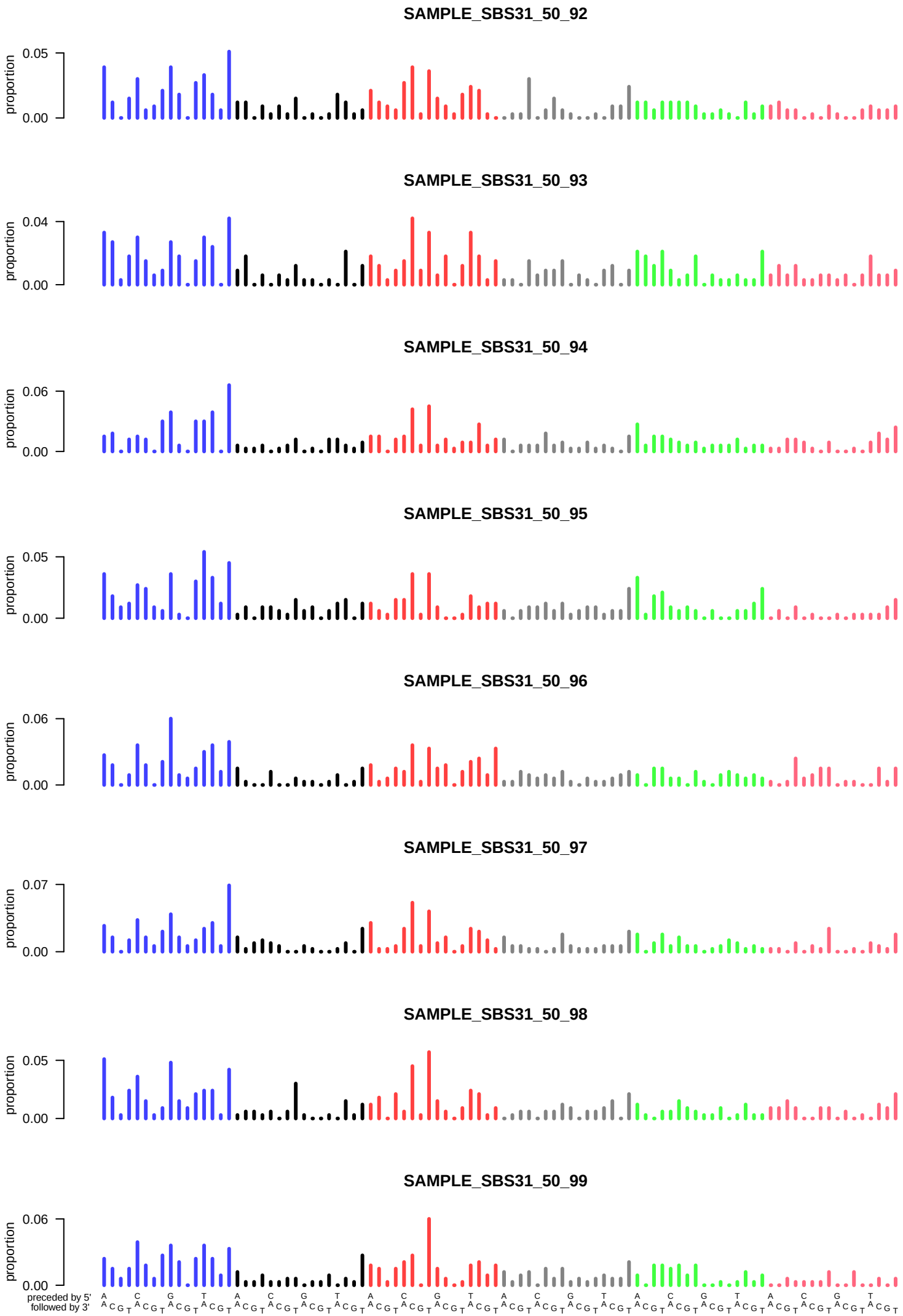
followed by 3'
A C G T A C G T A C G T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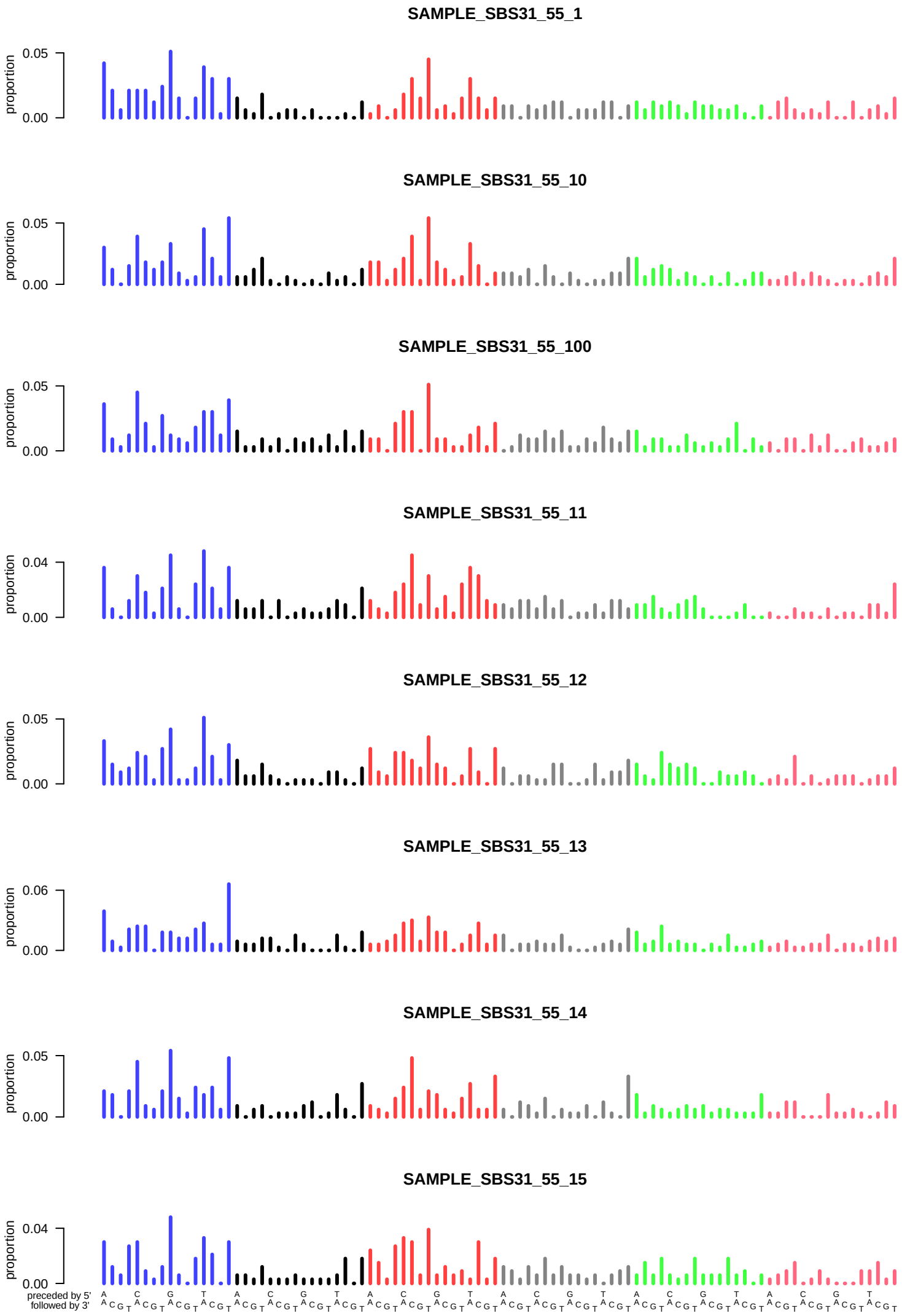
followed by 3'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followed by 3'
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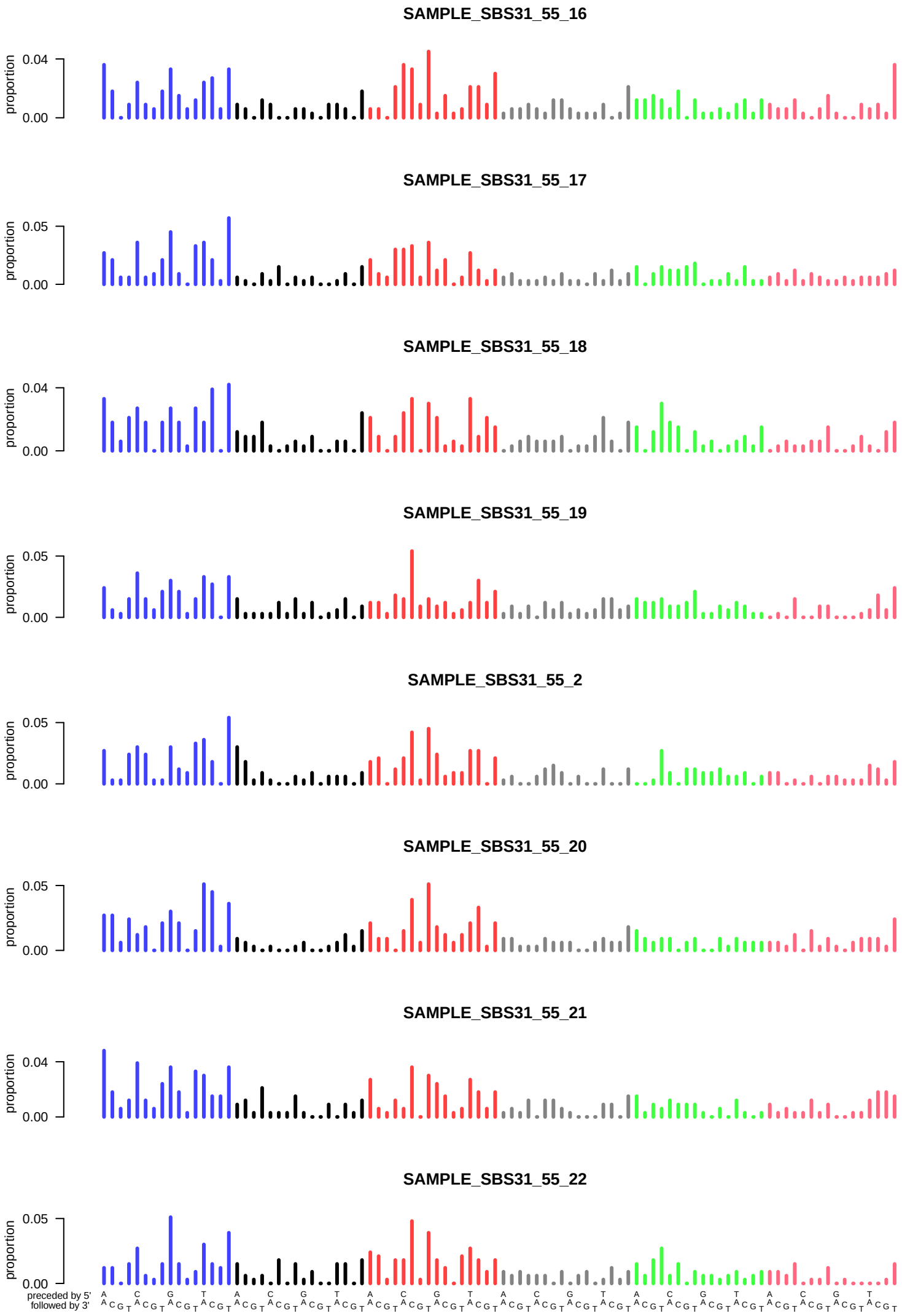
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followed by 3'
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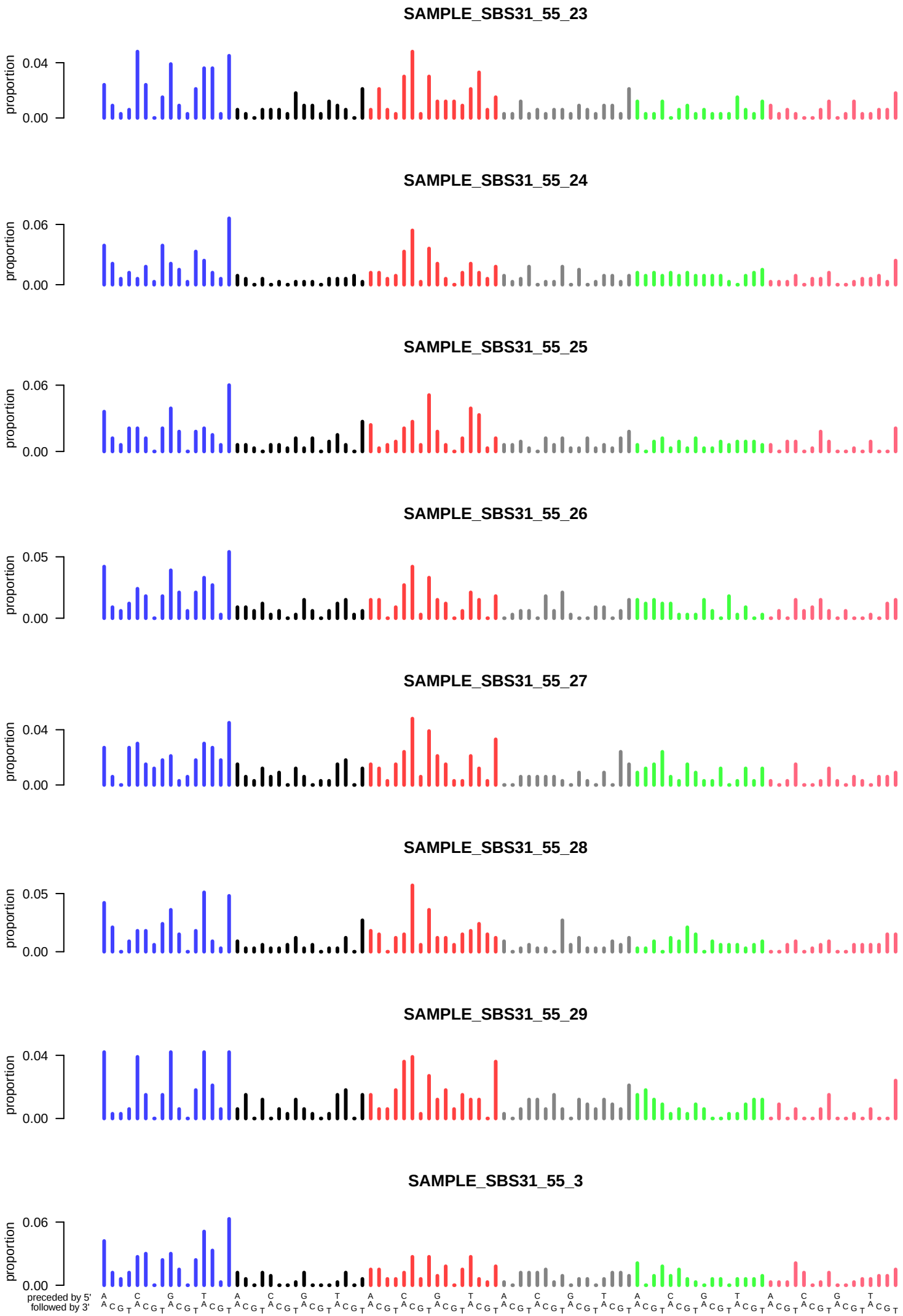
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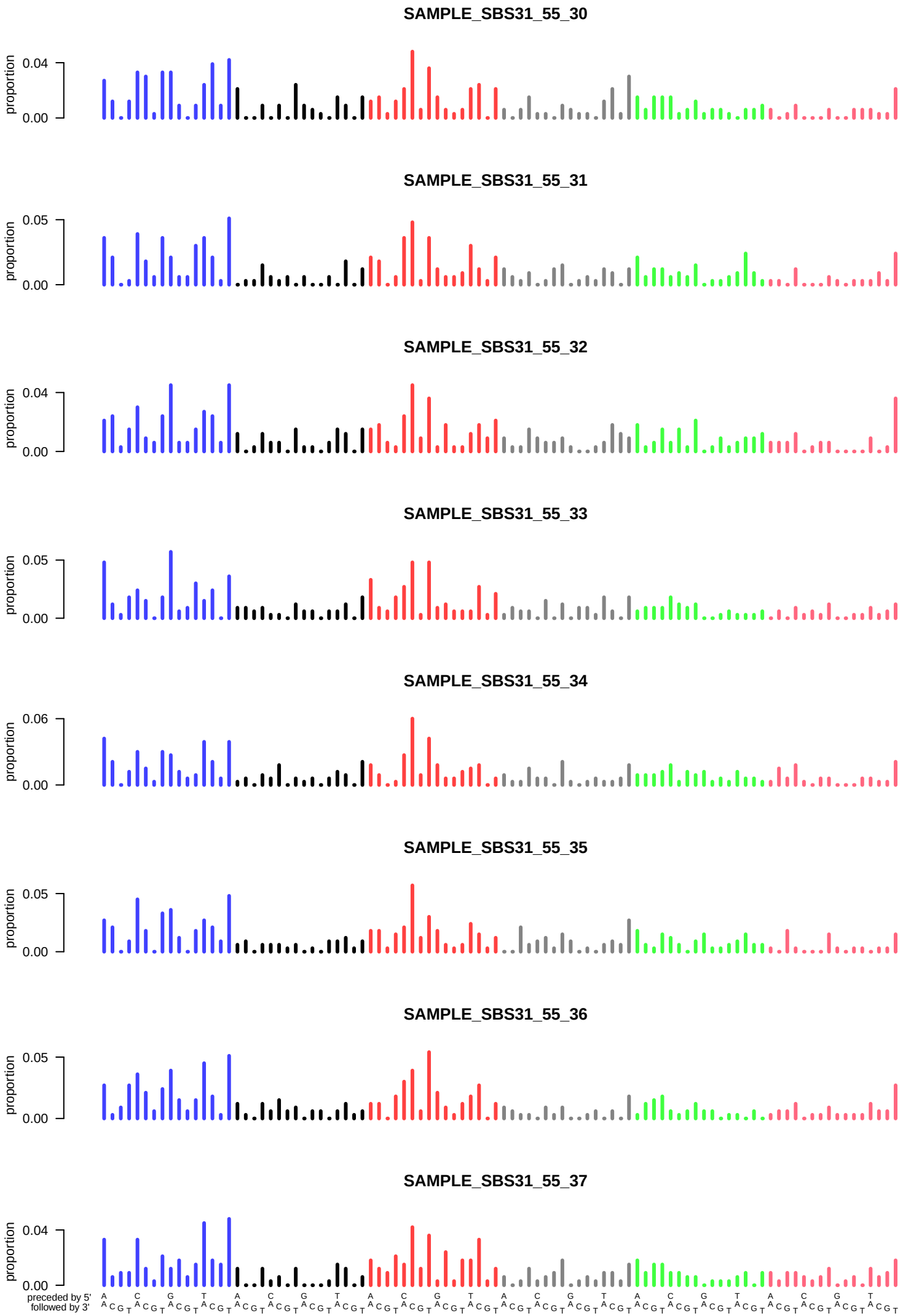
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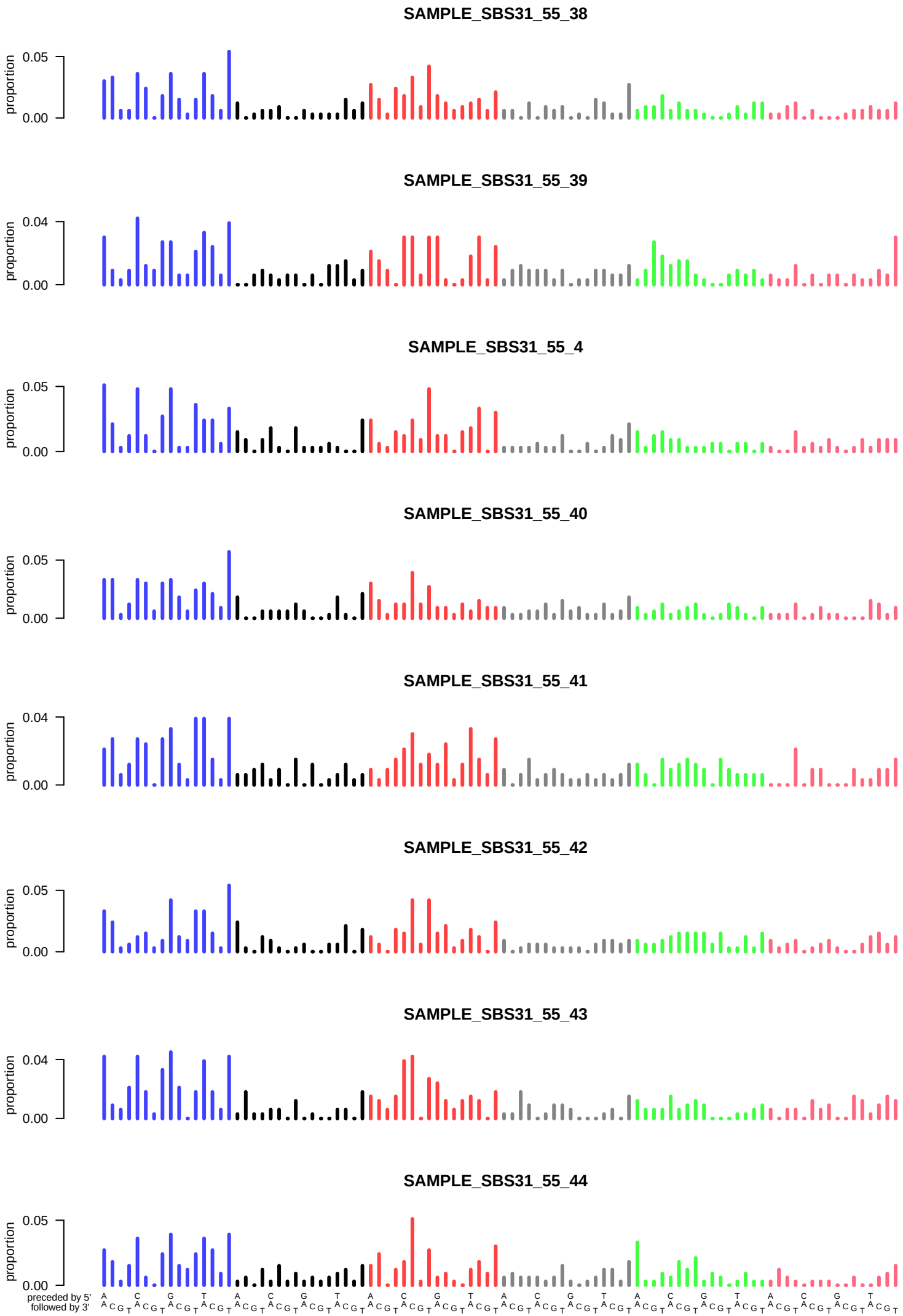
followed by 3'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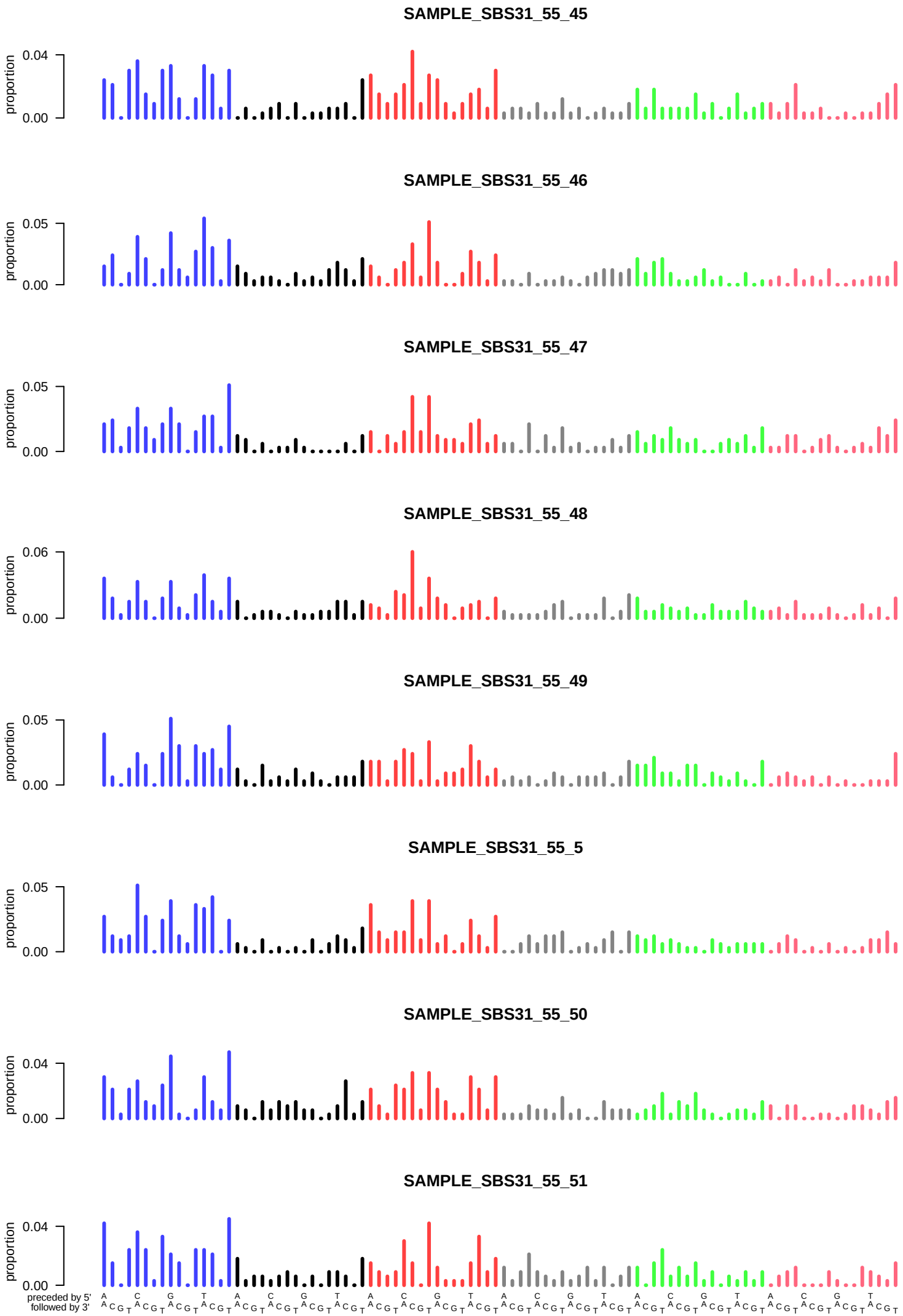
followed by 3'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SAMPLE_SBS31_55_50
proportion
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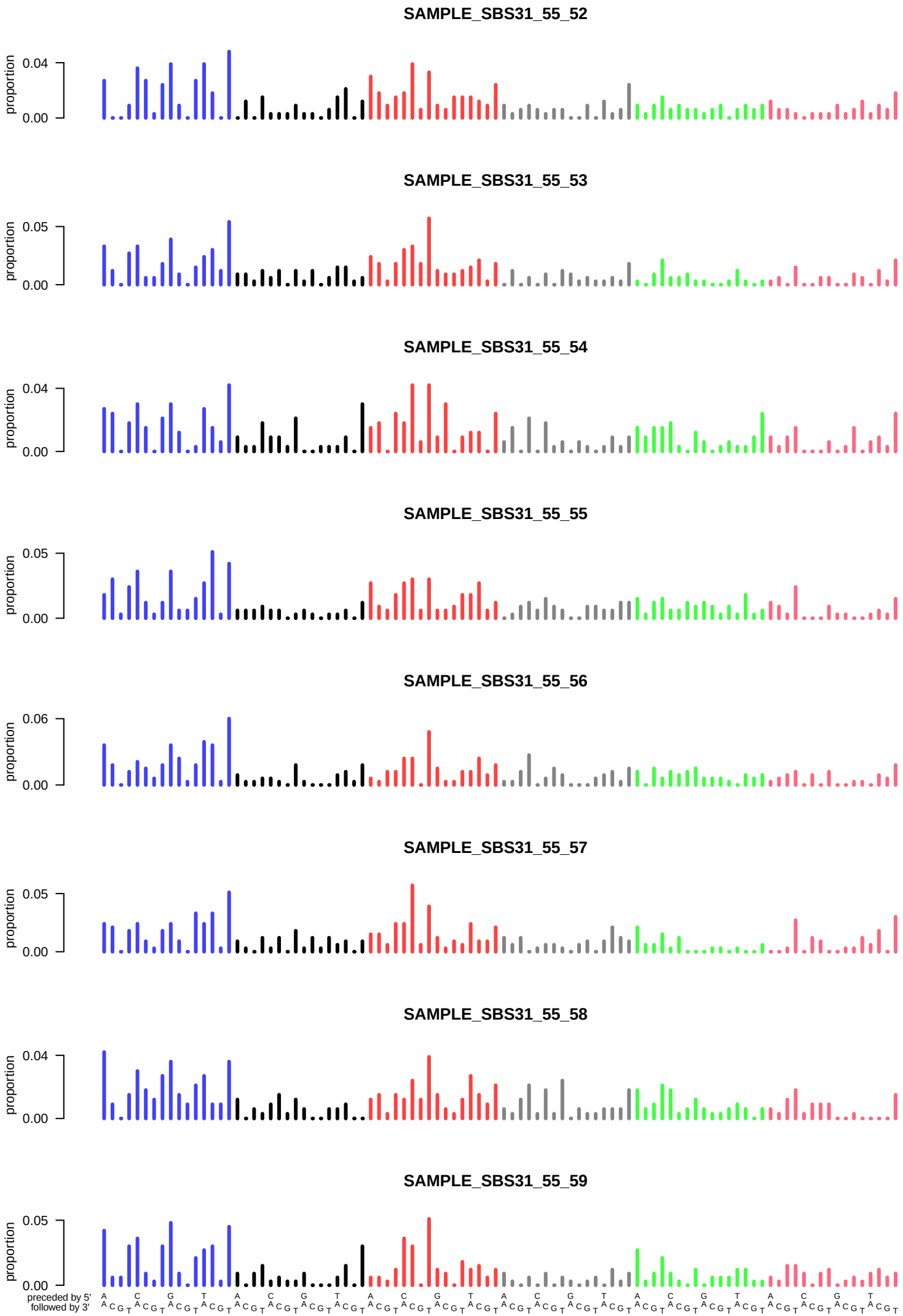
followed by 3'
A C G T A C G T A C G T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followed by 3'
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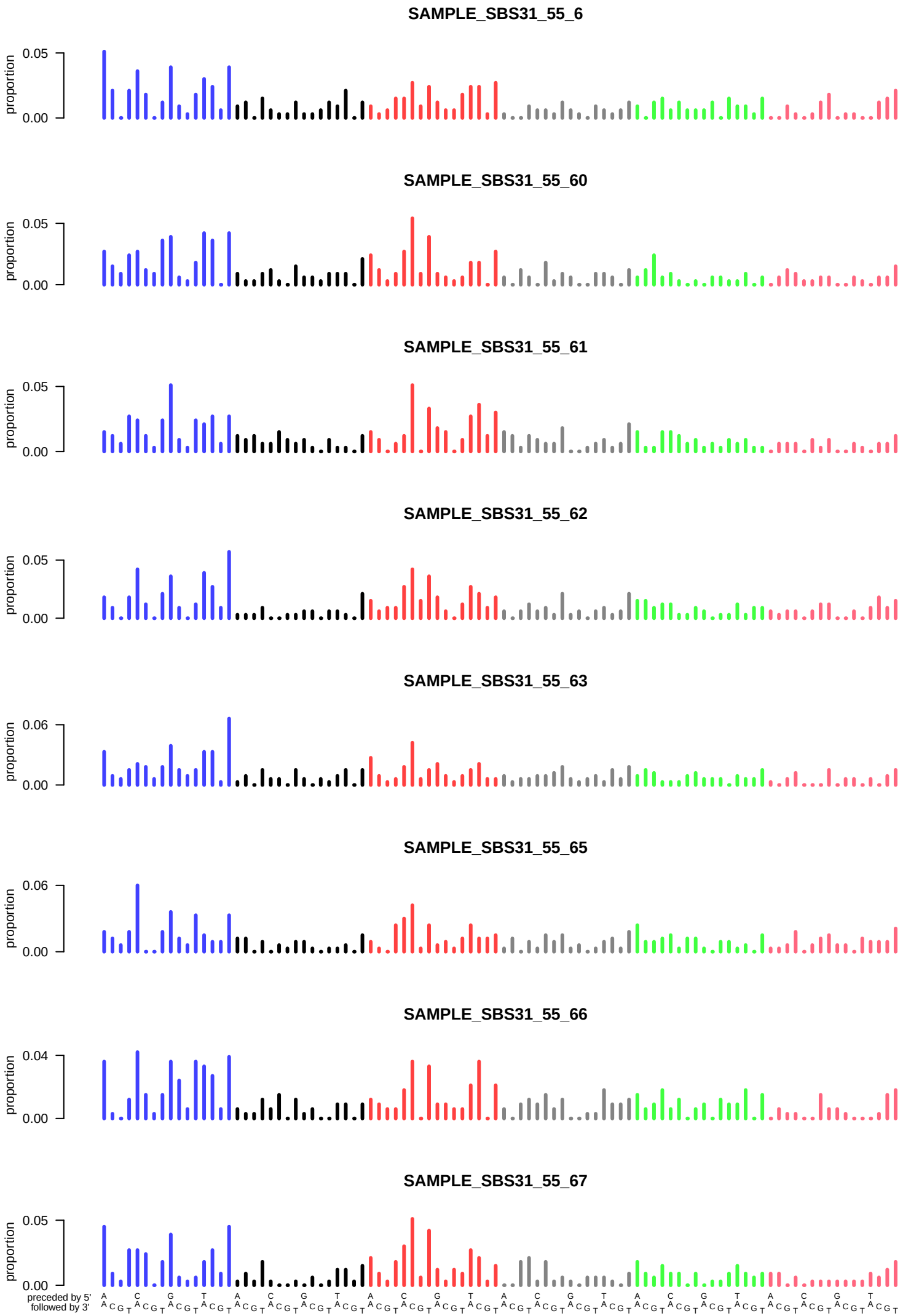
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SAMPLE_SBS31_55_66
SAMPLE_SBS31_55_67
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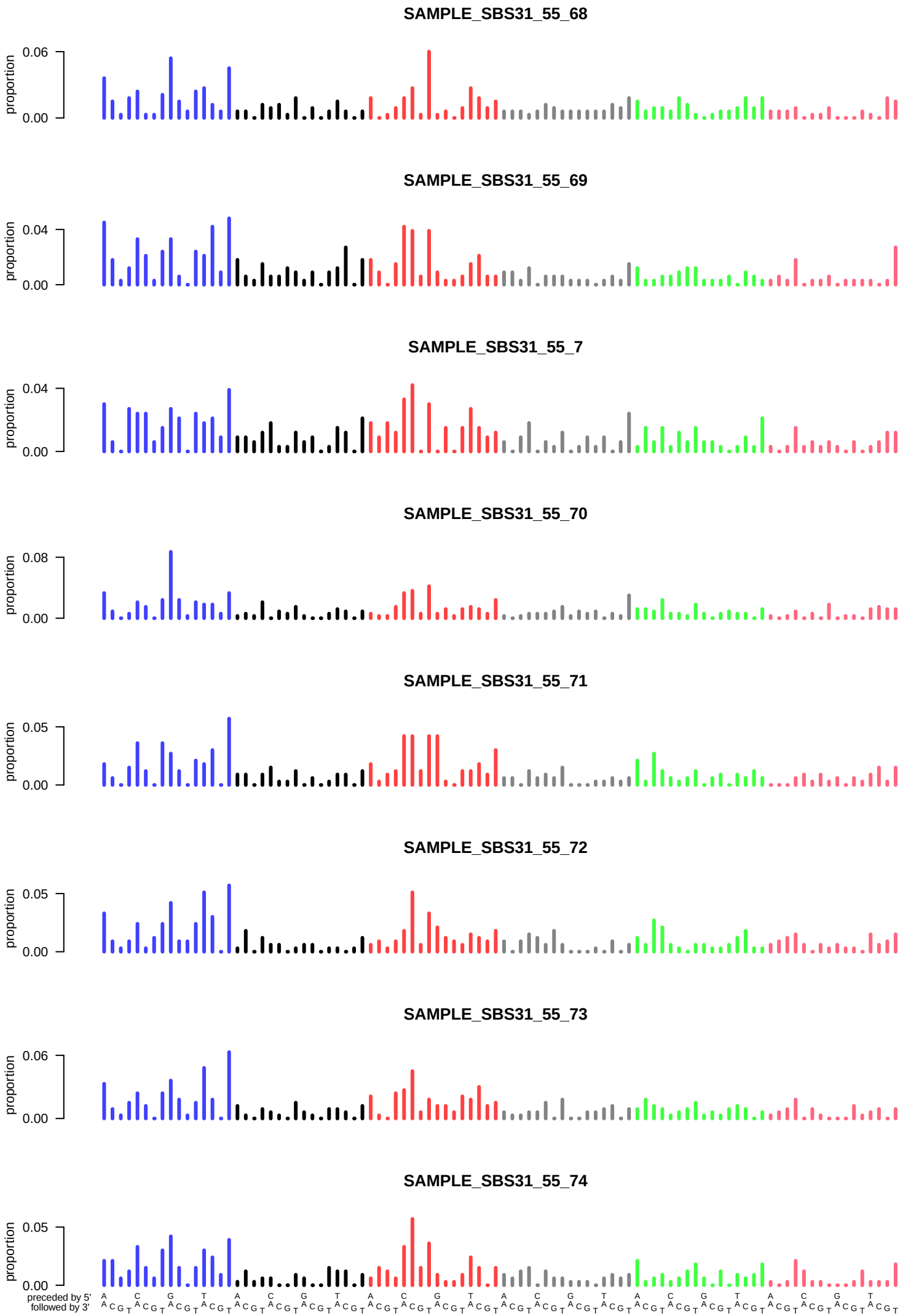
preceded by 5'
followed by 3'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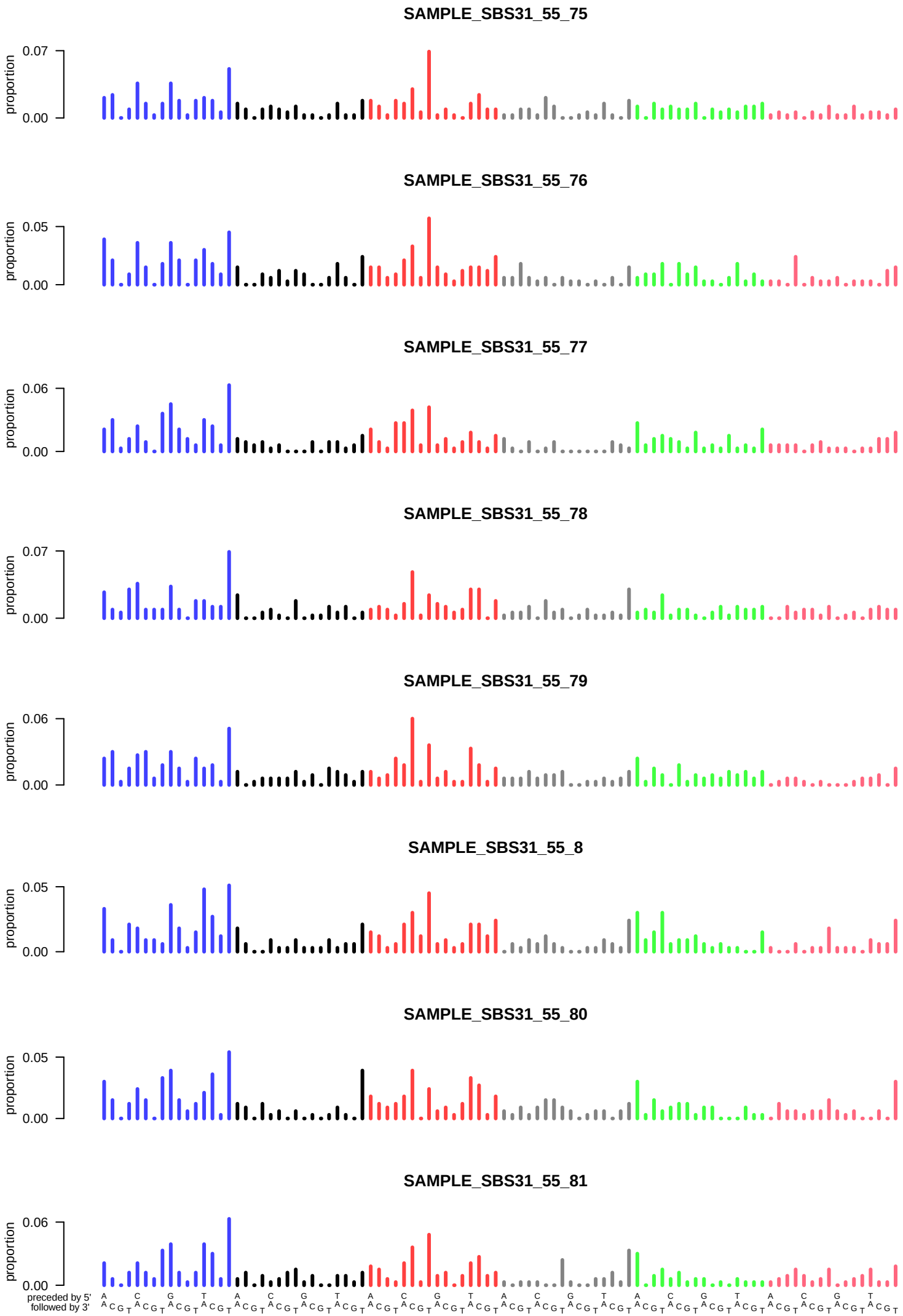
preceded by 5'
followed by 3'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SAMPLE_SBS31_55_79
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SAMPLE_SBS31_55_8
proportion
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SAMPLE_SBS31_55_80
proportion
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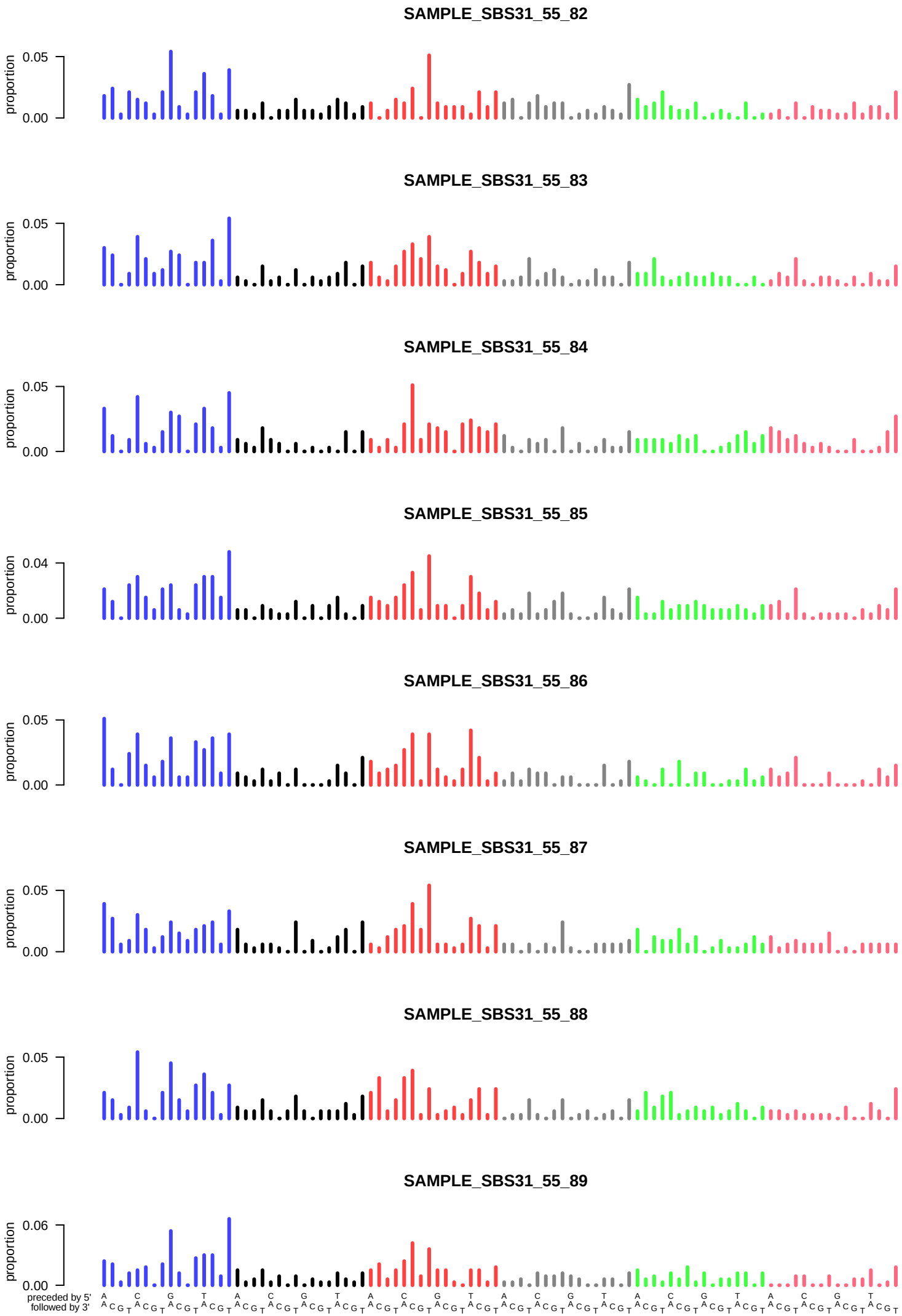
followed by 3'
A C G T A C G T A C G T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SAMPLE_SBS31_55_88
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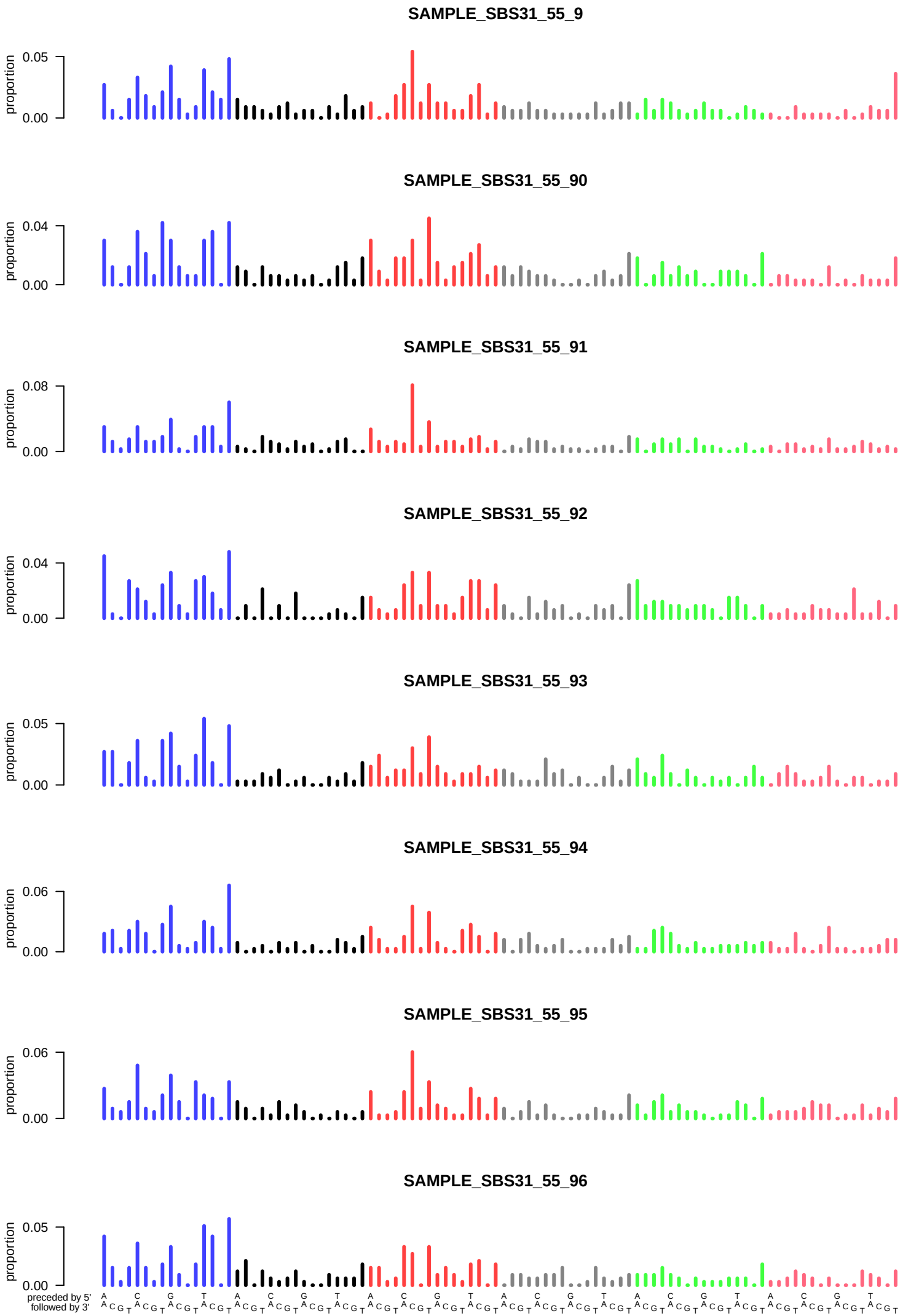
followed by 3'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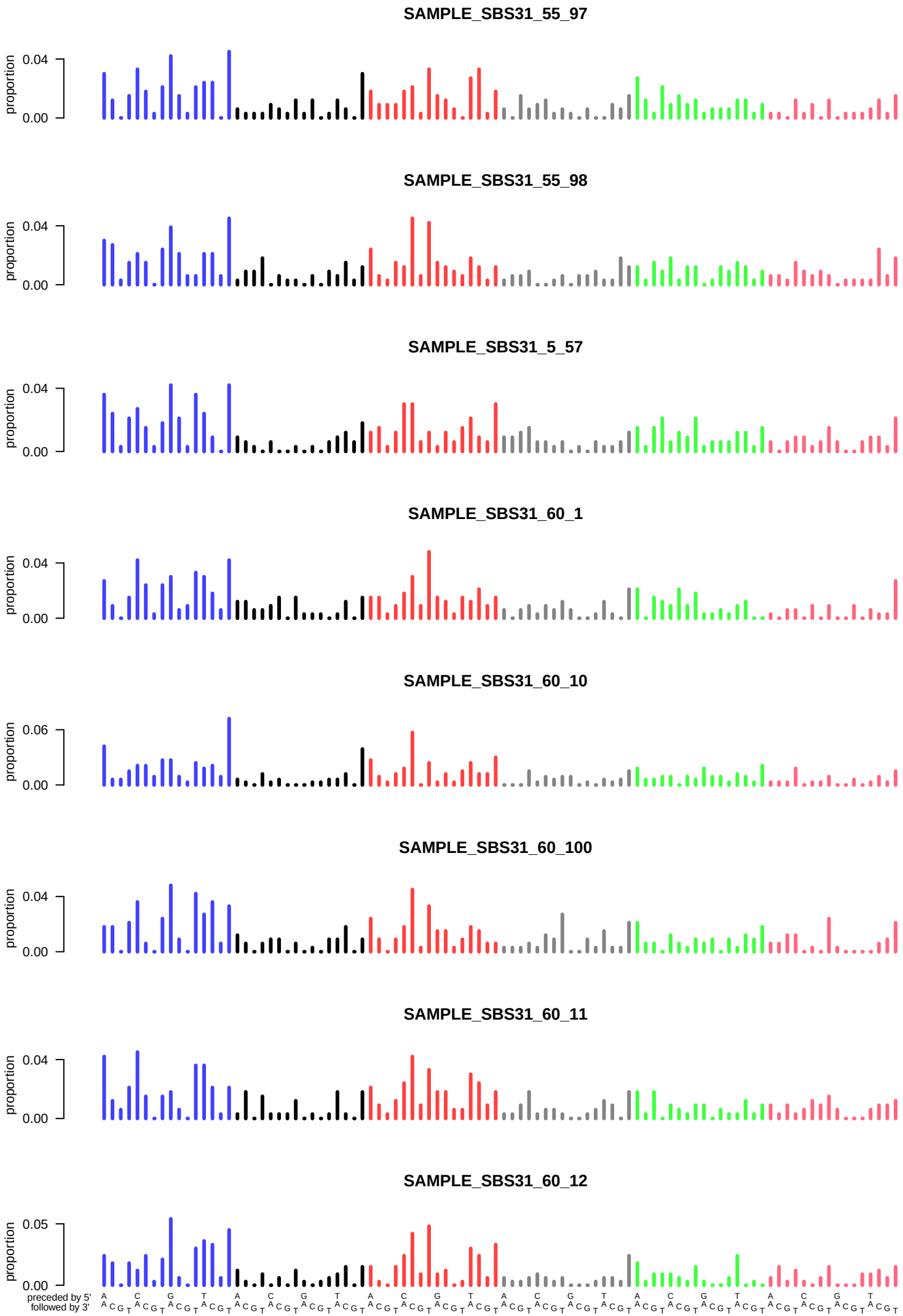
preceded by 5'
followed by 3'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SAMPLE_SBS31_60_10
SAMPLE_SBS31_60_100
SAMPLE_SBS31_60_11
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0.04
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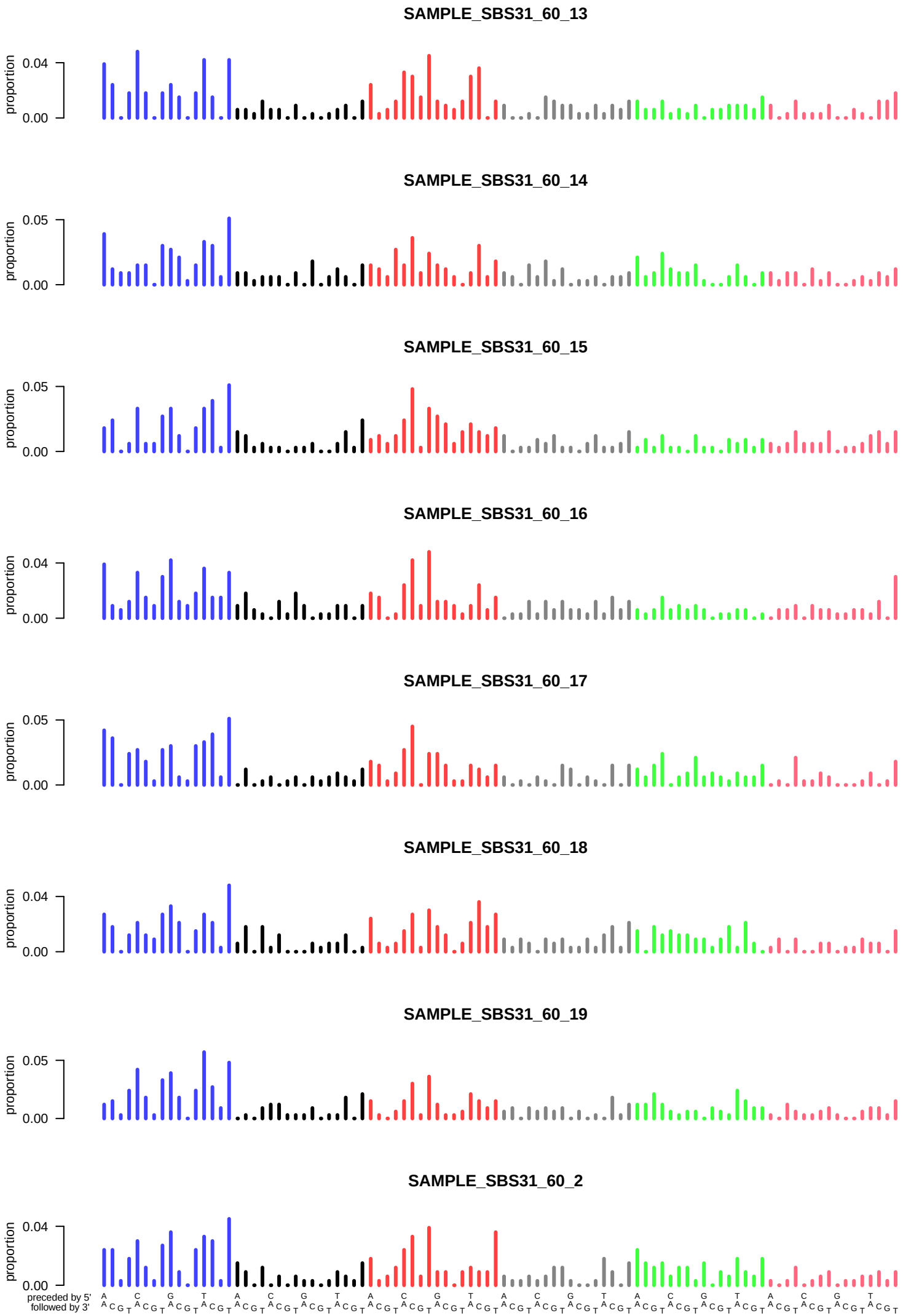
followed by 3'
A C G T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proportion
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SAMPLE_SBS31_60_19
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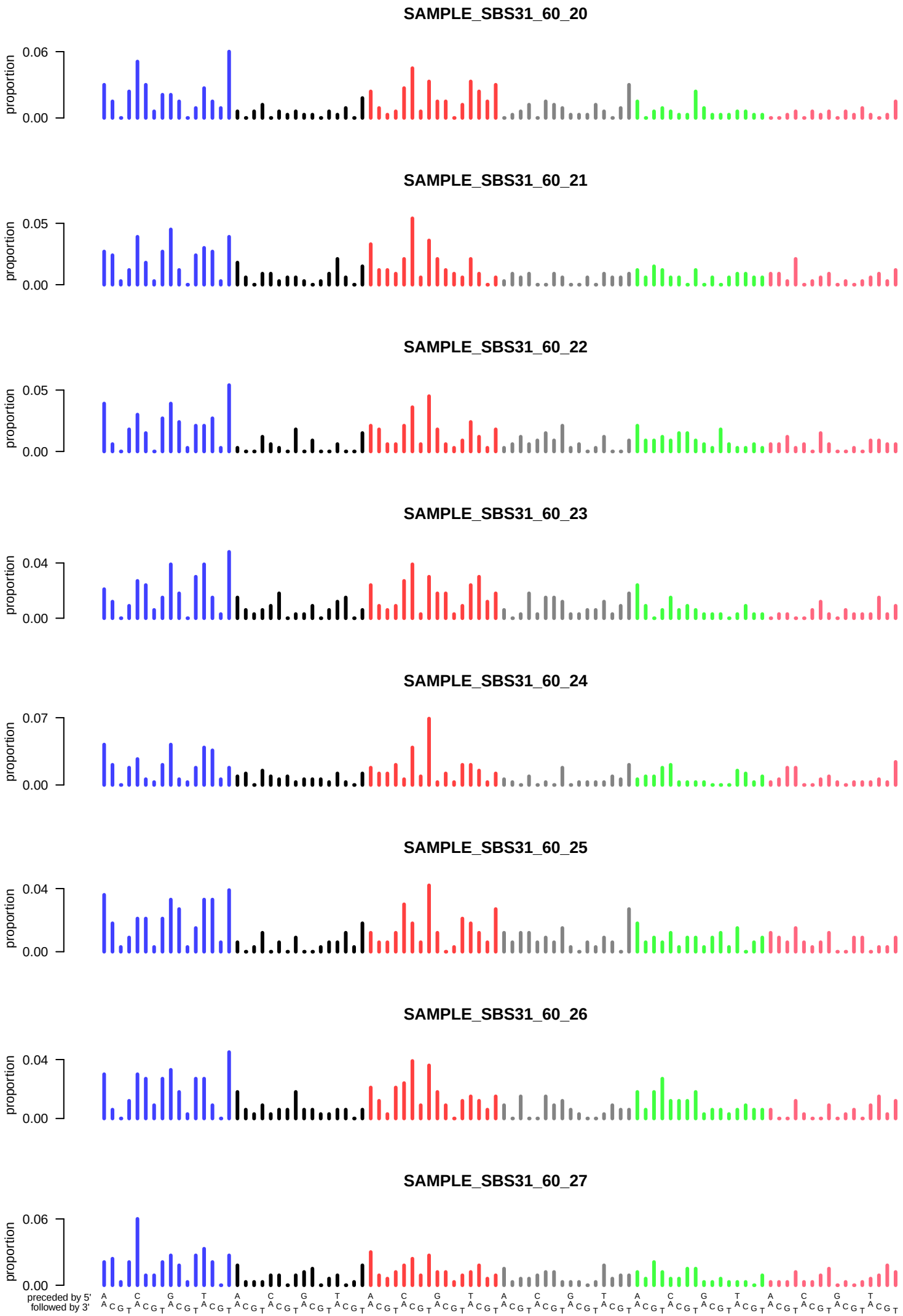
followed by 3'
A C G T A C G T A C G T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proportion
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SAMPLE_SBS31_60_24
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SAMPLE_SBS31_60_26
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SAMPLE_SBS31_60_27
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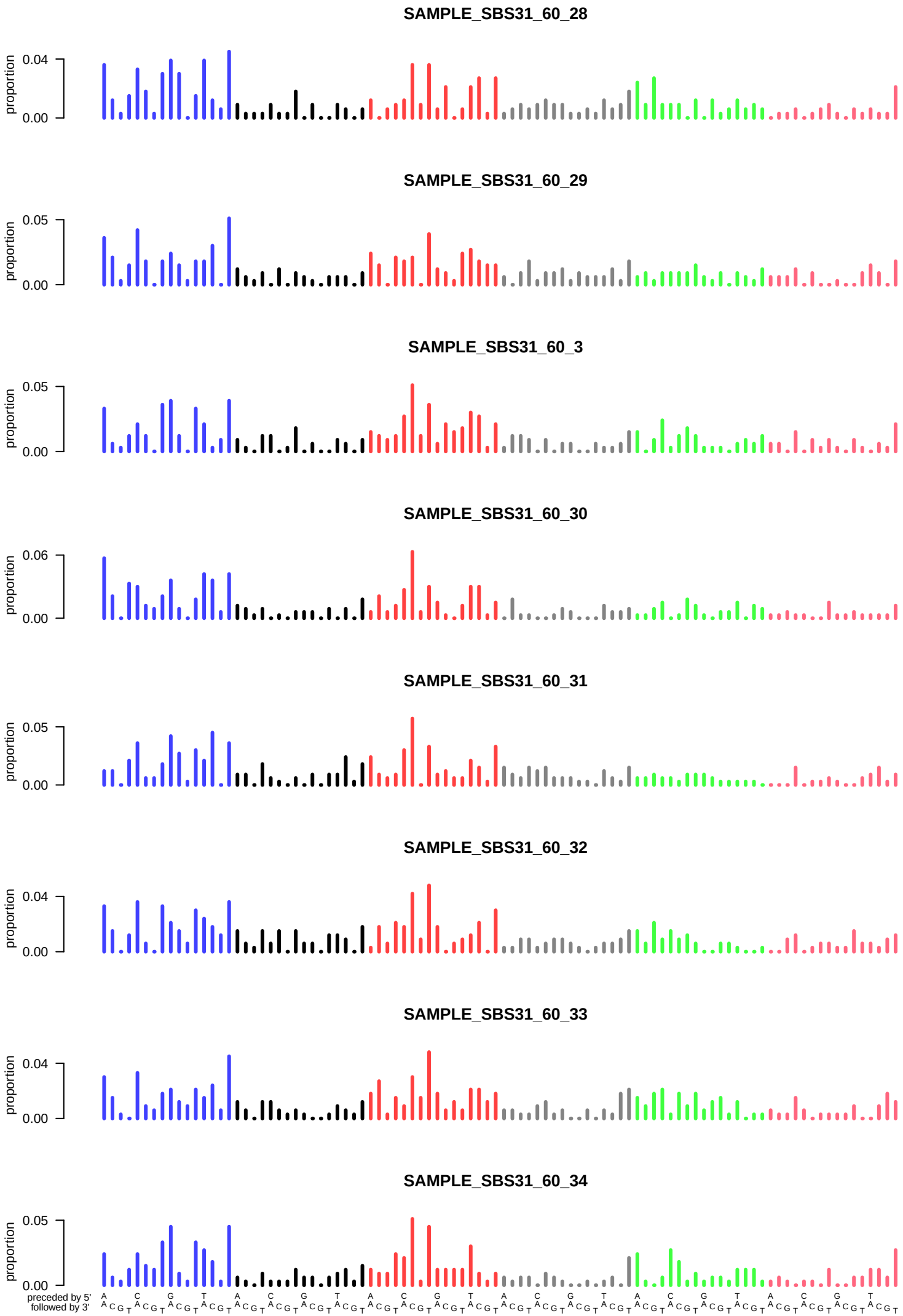
preceded by 5'
followed by 3'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SAMPLE_SBS31_60_31
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SAMPLE_SBS31_60_32
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SAMPLE_SBS31_60_33
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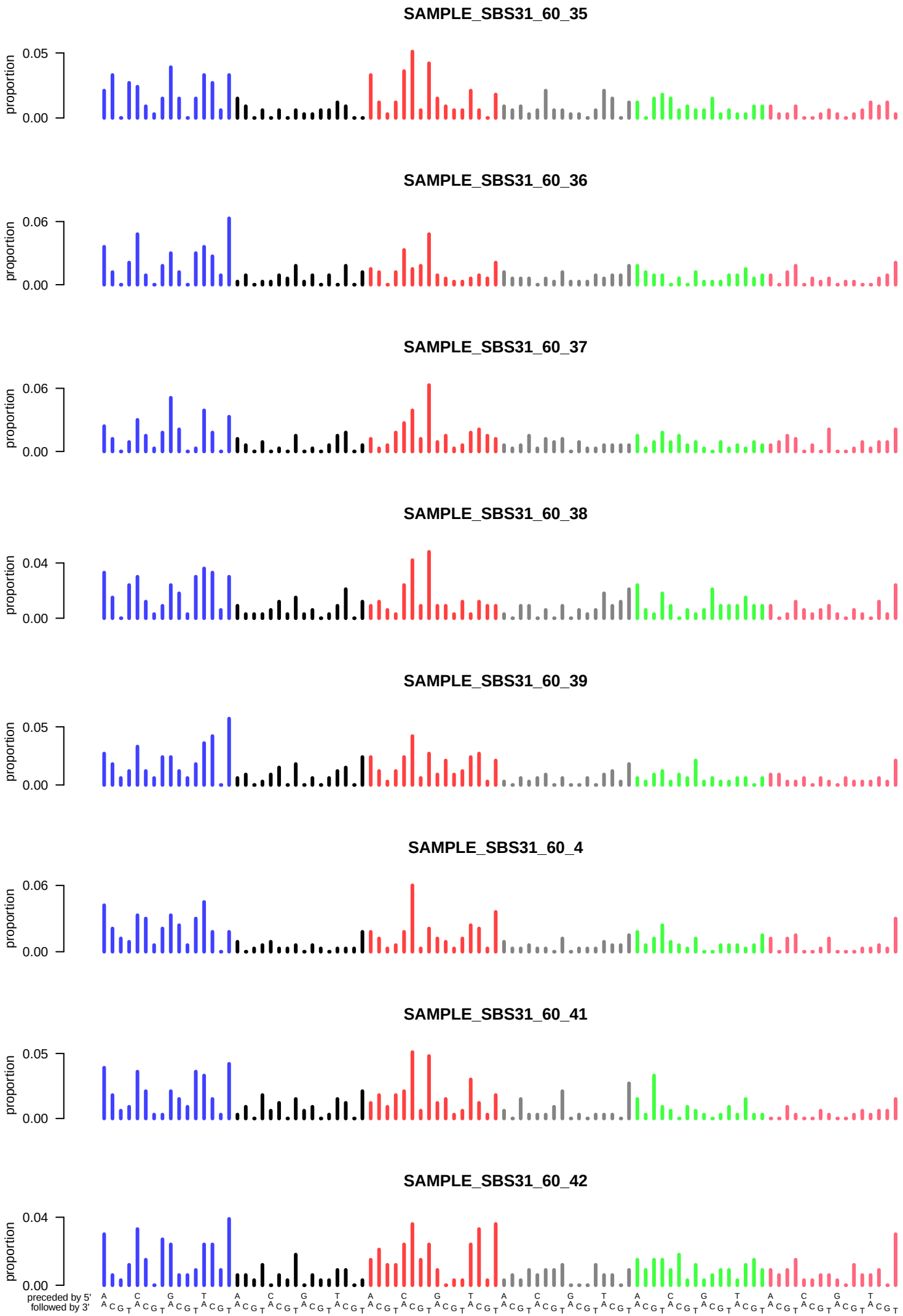
preceded by 5'
followed by 3'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SAMPLE_SBS31_60_4
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SAMPLE_SBS31_60_41
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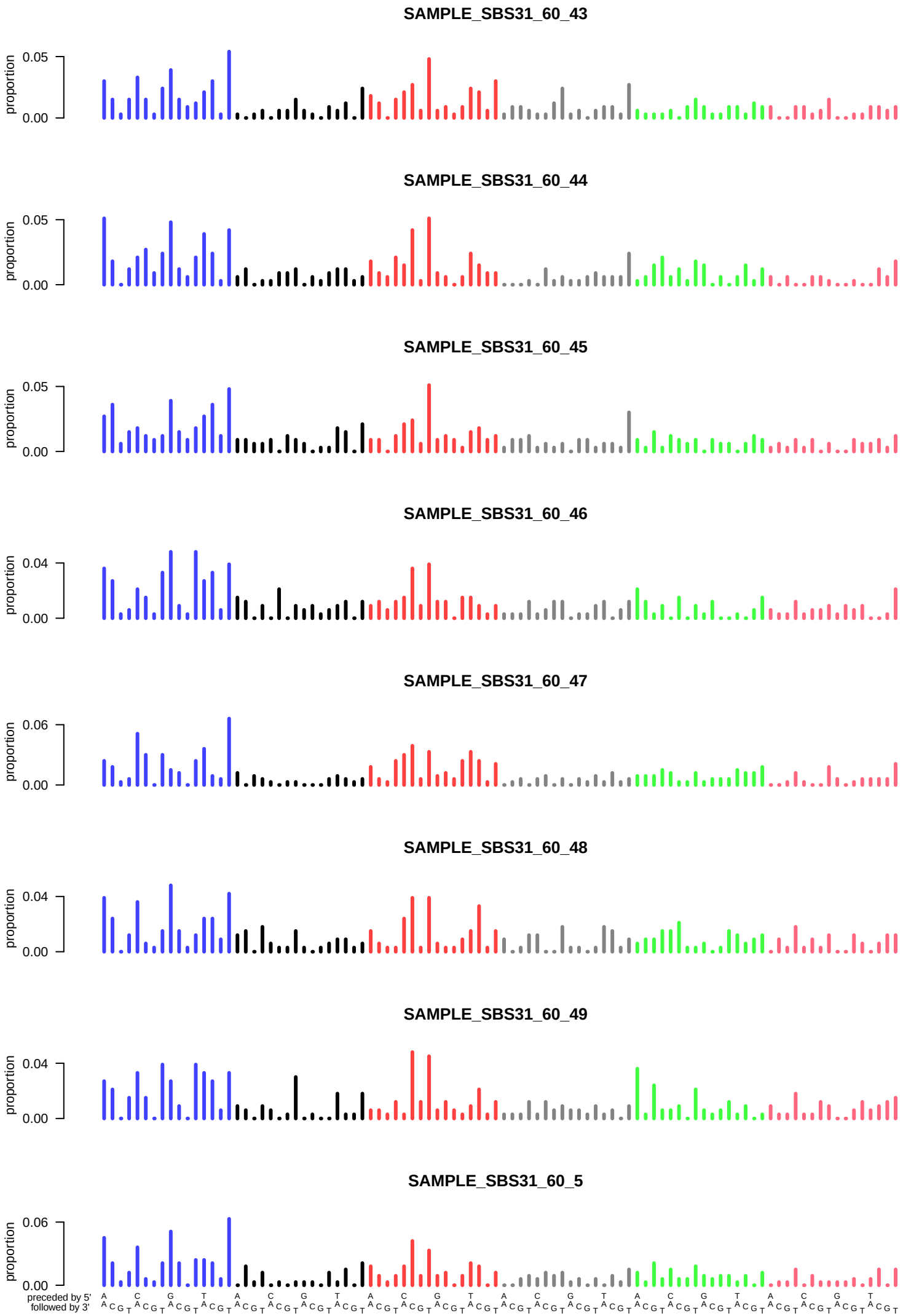
followed by 3'
A C G T A C G T A C G T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SAMPLE_SBS31_60_48
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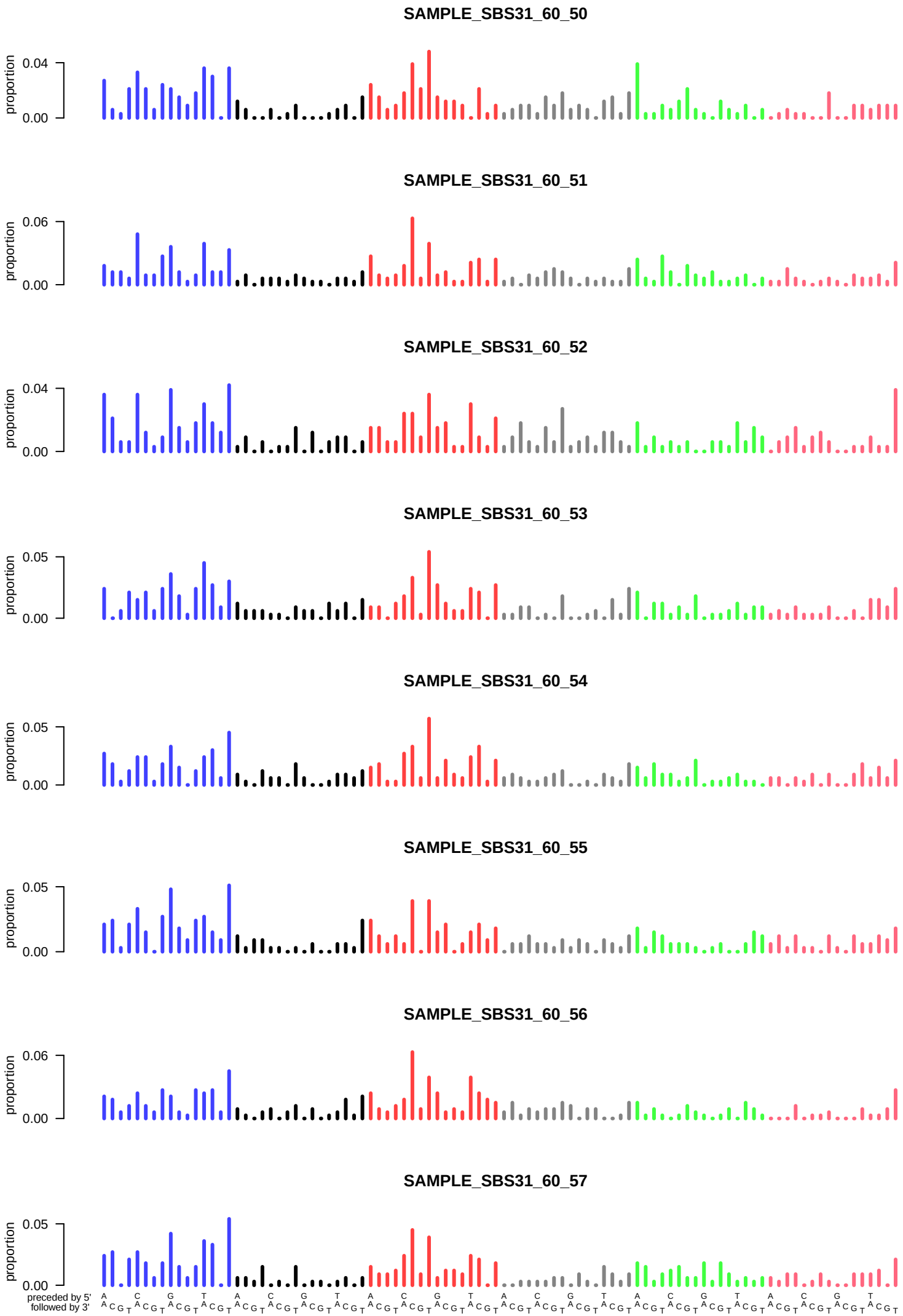
followed by 3'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SAMPLE_SBS31_60_56
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SAMPLE_SBS31_60_57
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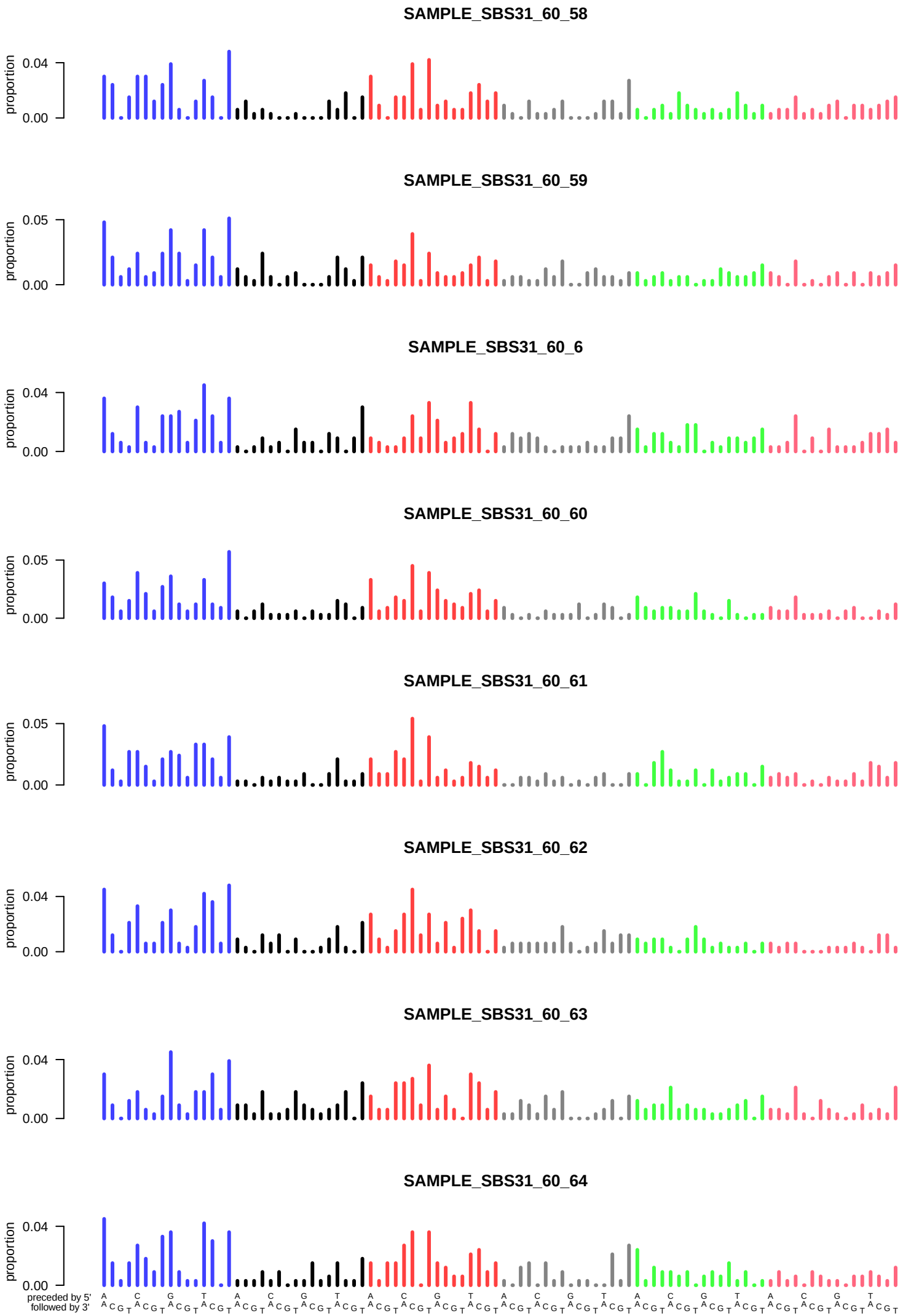
followed by 3'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SAMPLE_SBS31_60_62
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SAMPLE_SBS31_60_63
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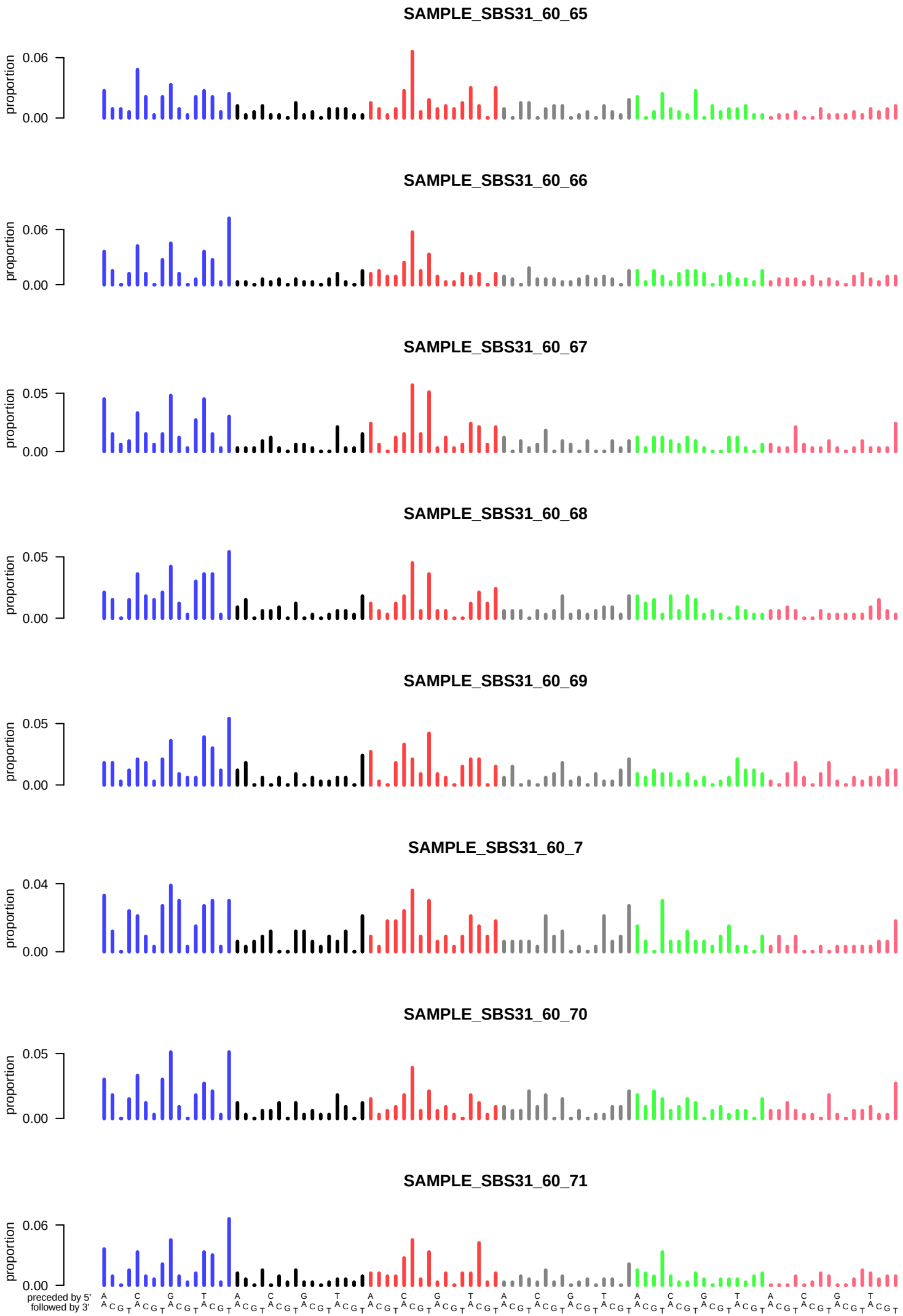
followed by 3'
A C G T A C G T A C G T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SAMPLE_SBS31_60_70
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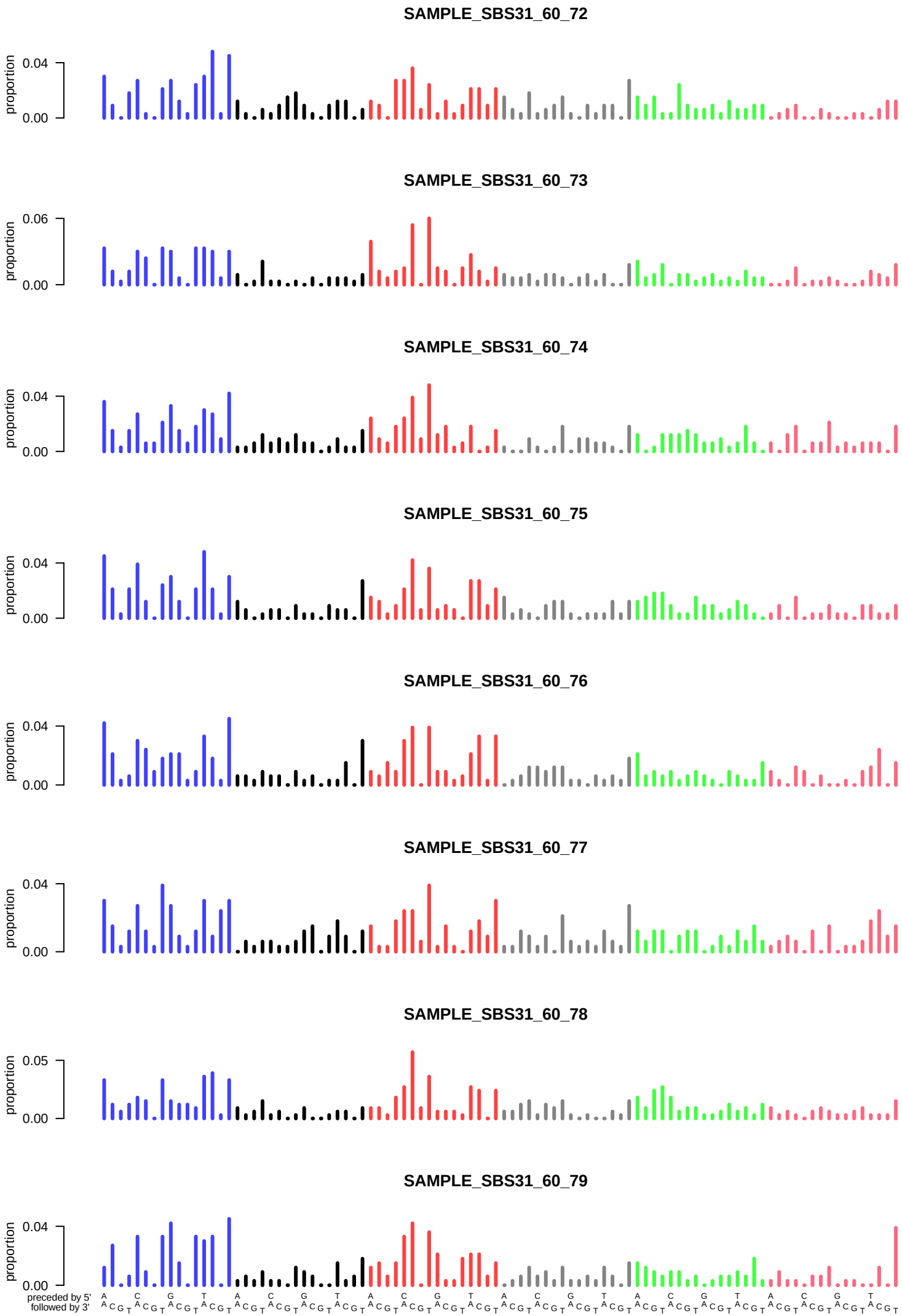
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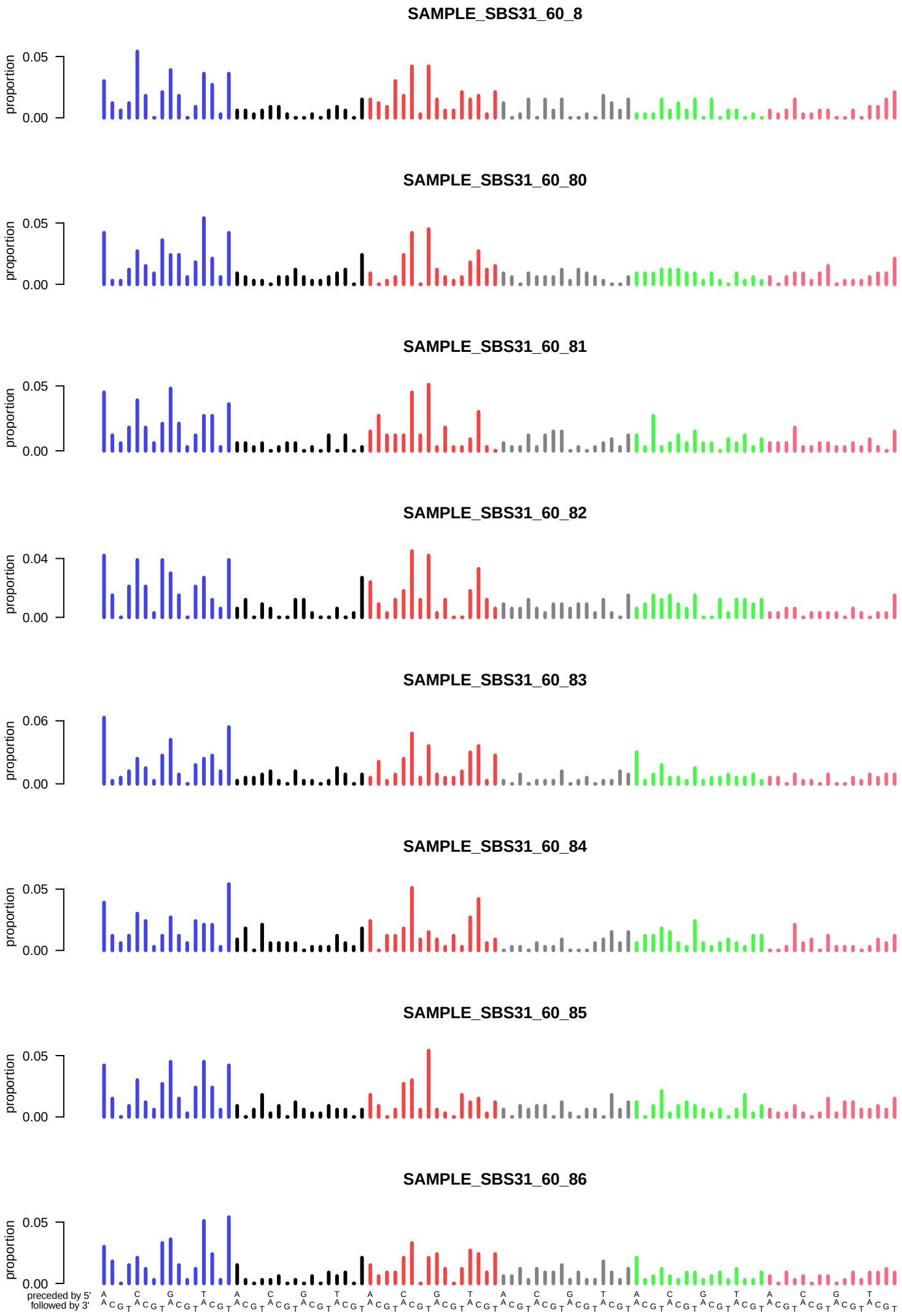
followed by 3'
A C G T A C G T A C G T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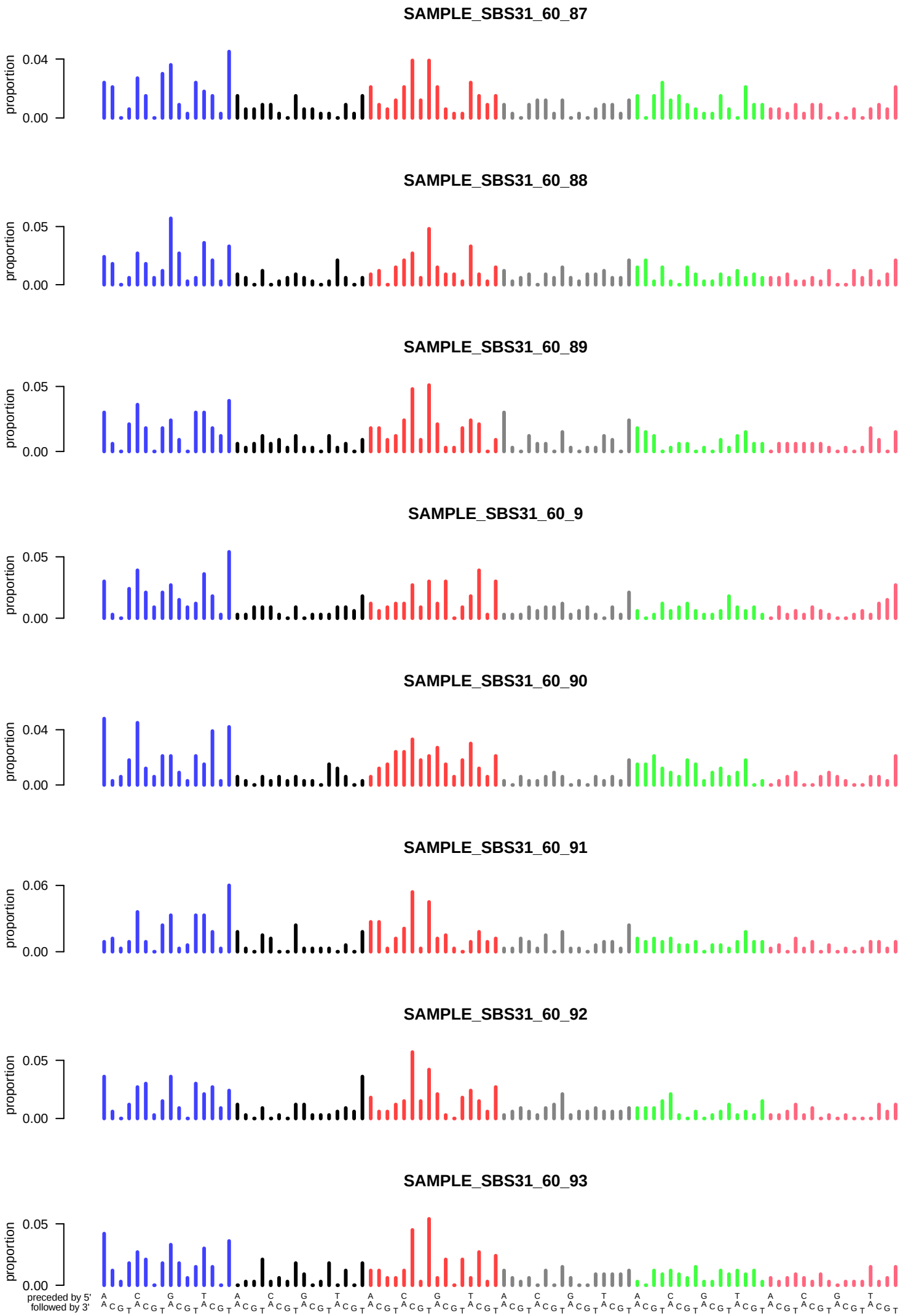
followed by 3'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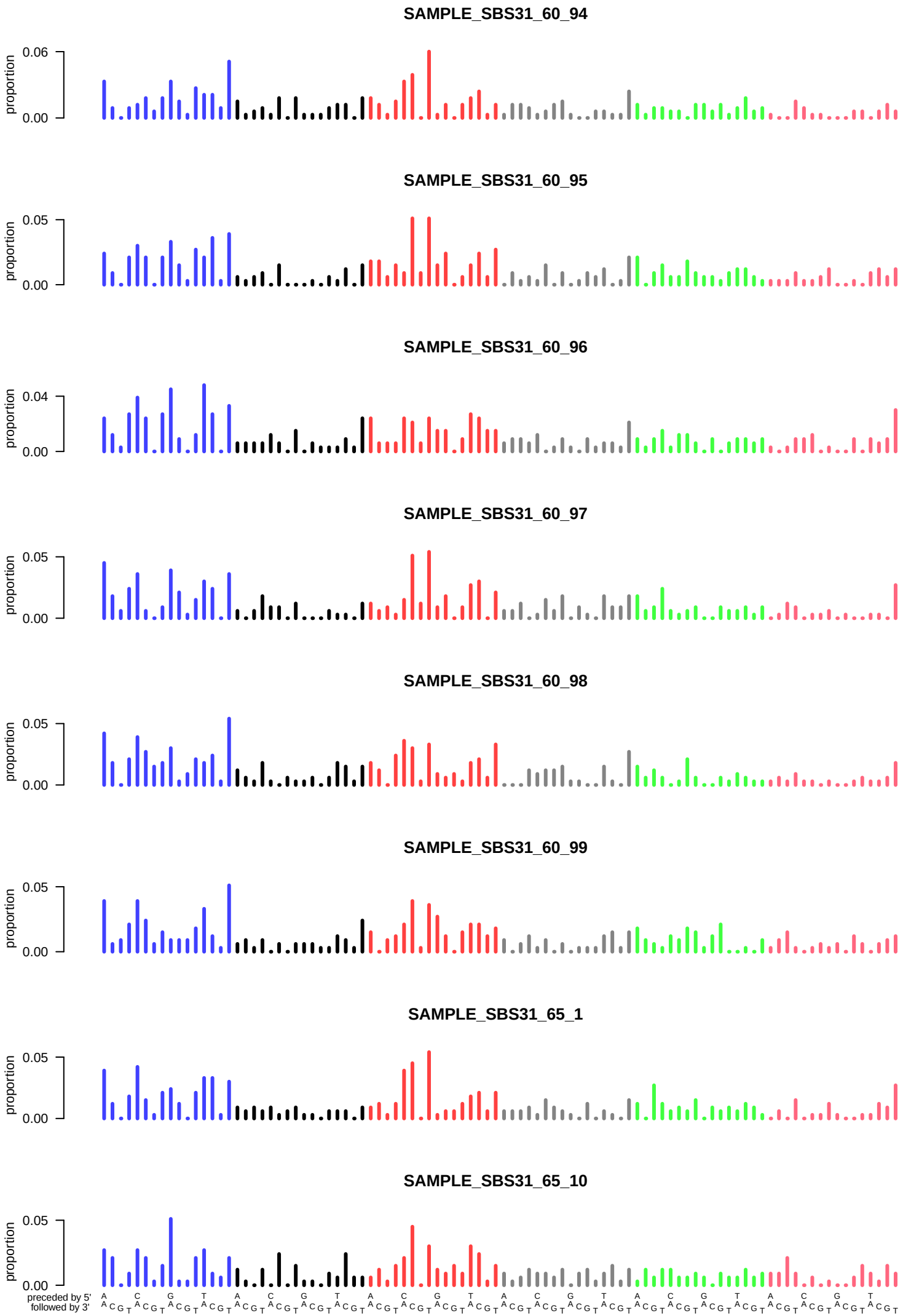
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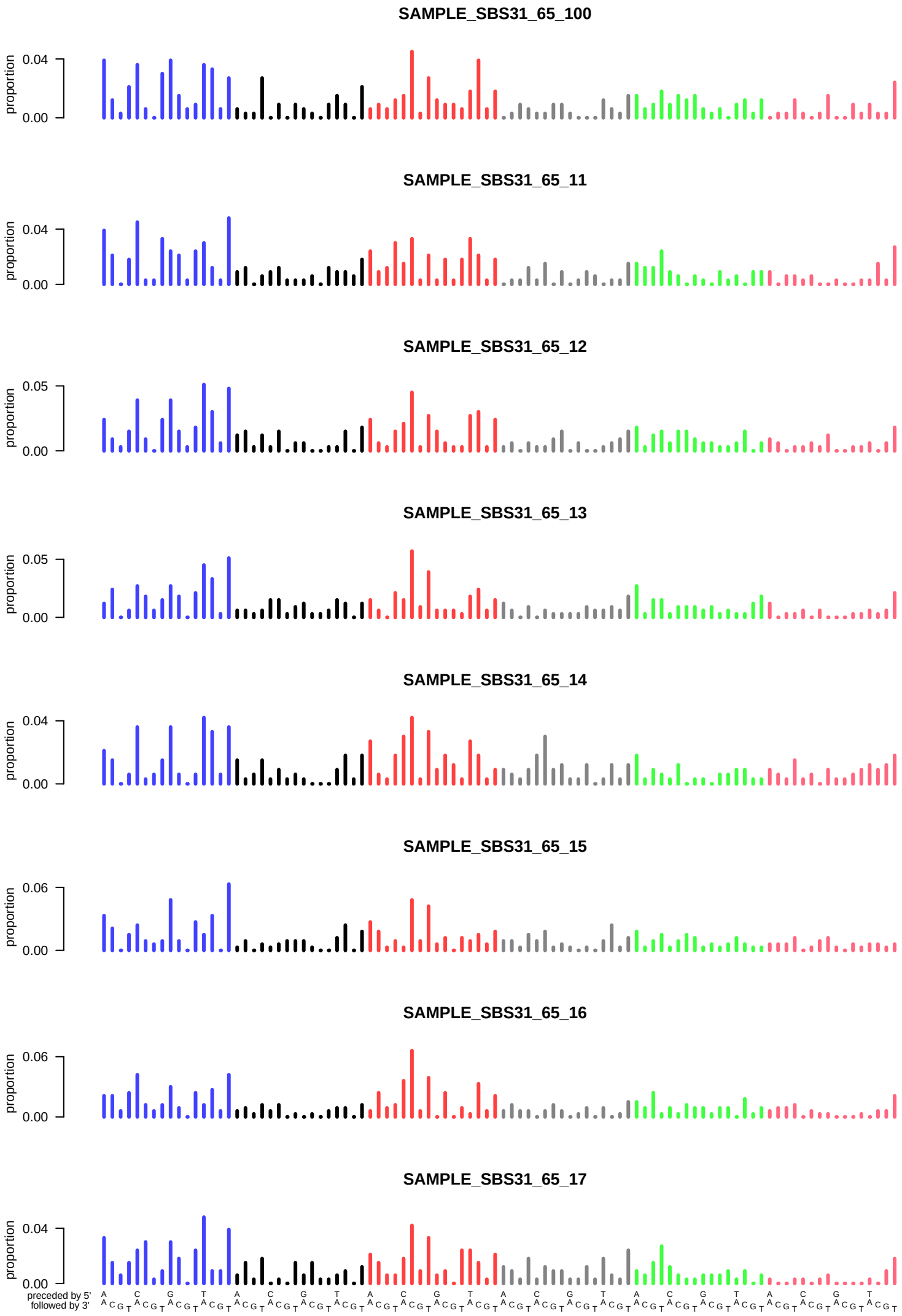
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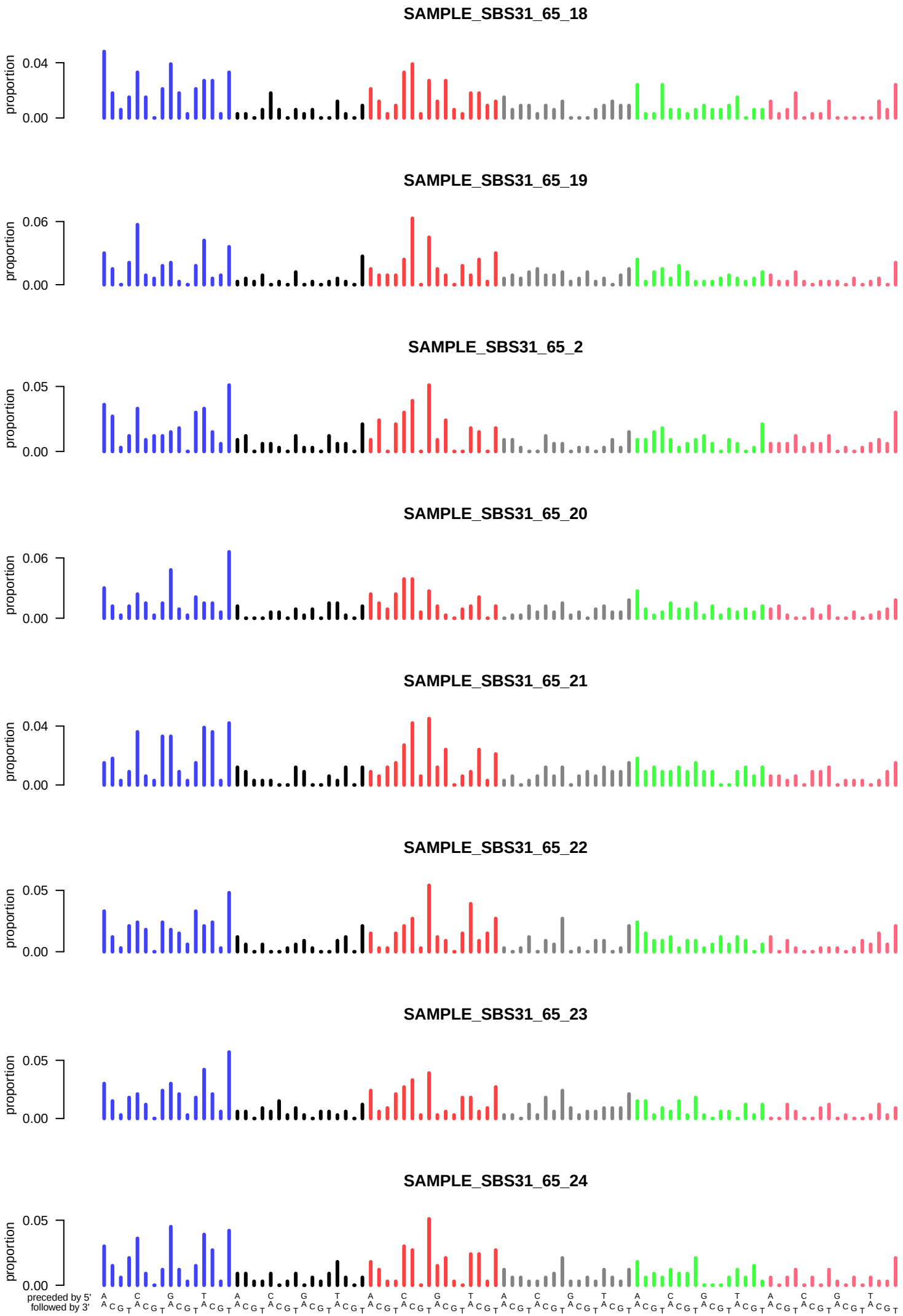
followed by 3'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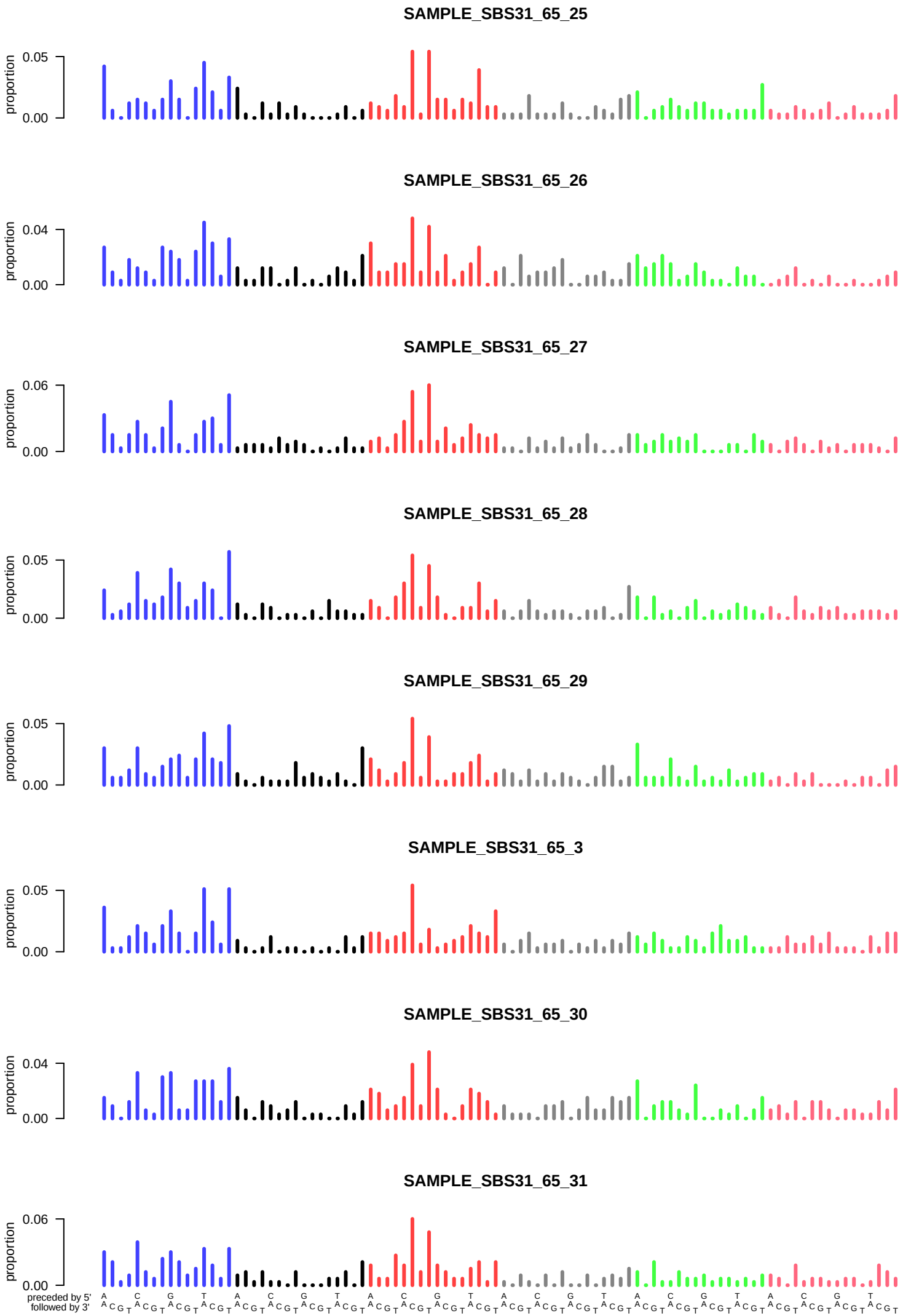
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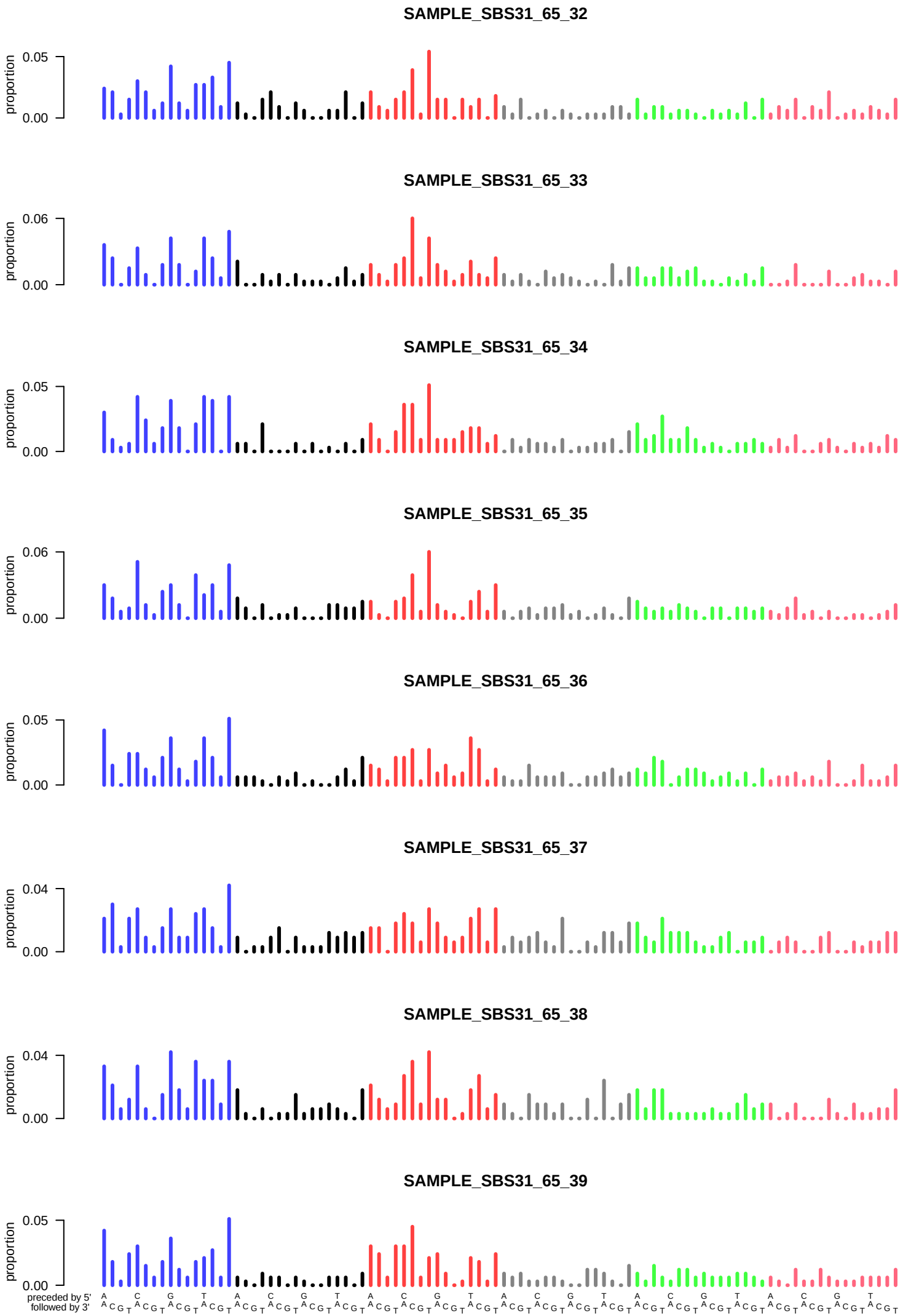
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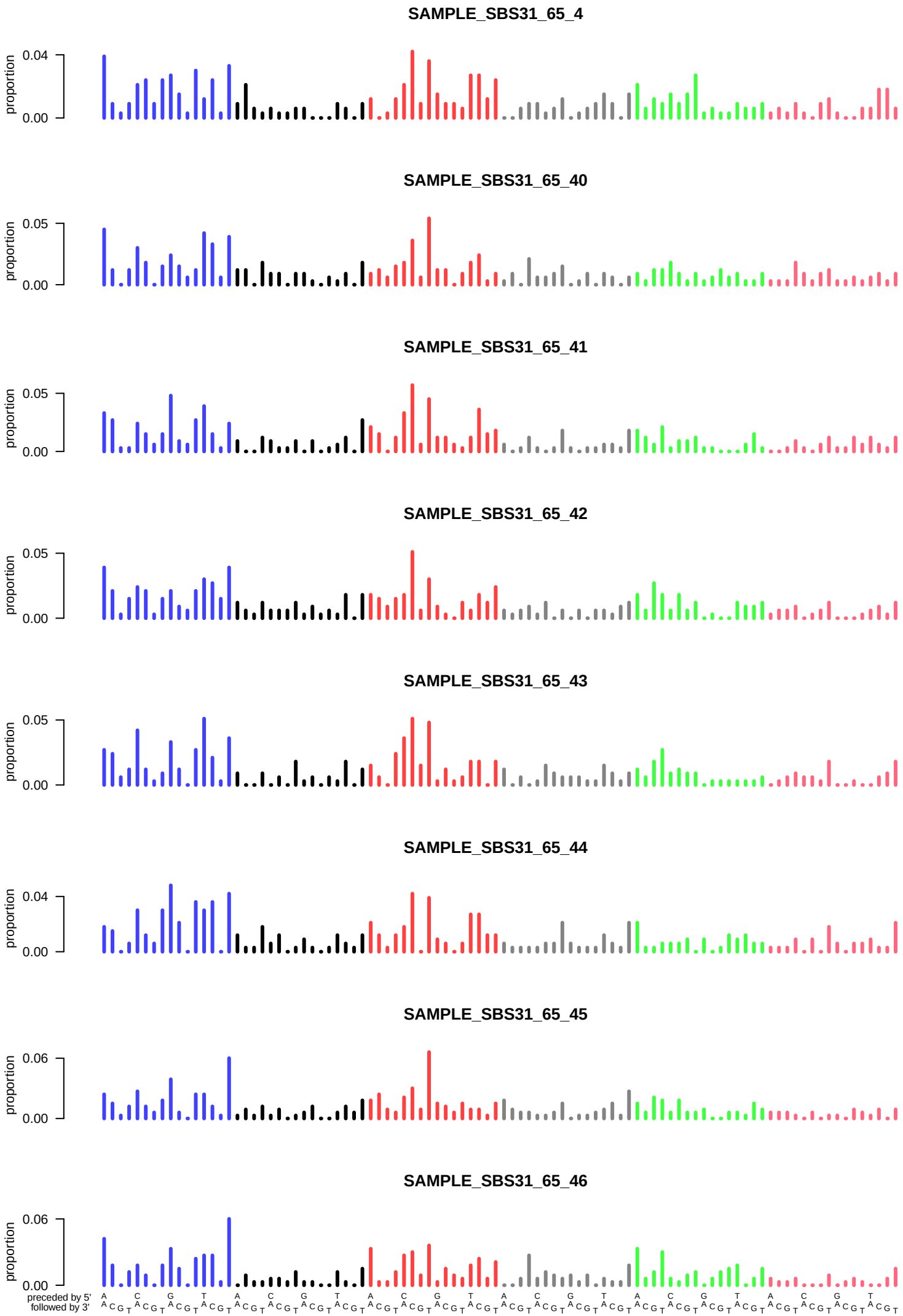
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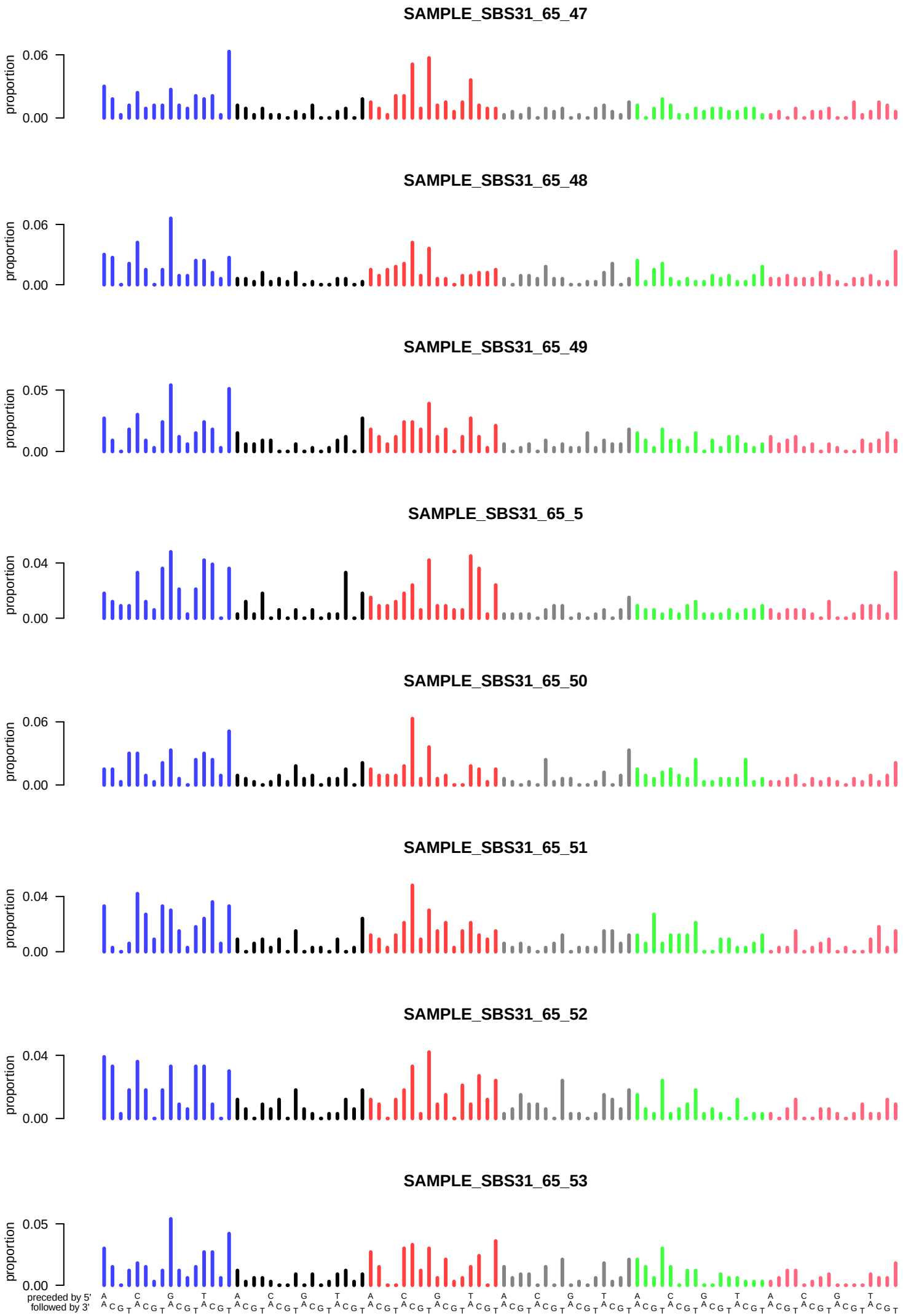
followed by 3'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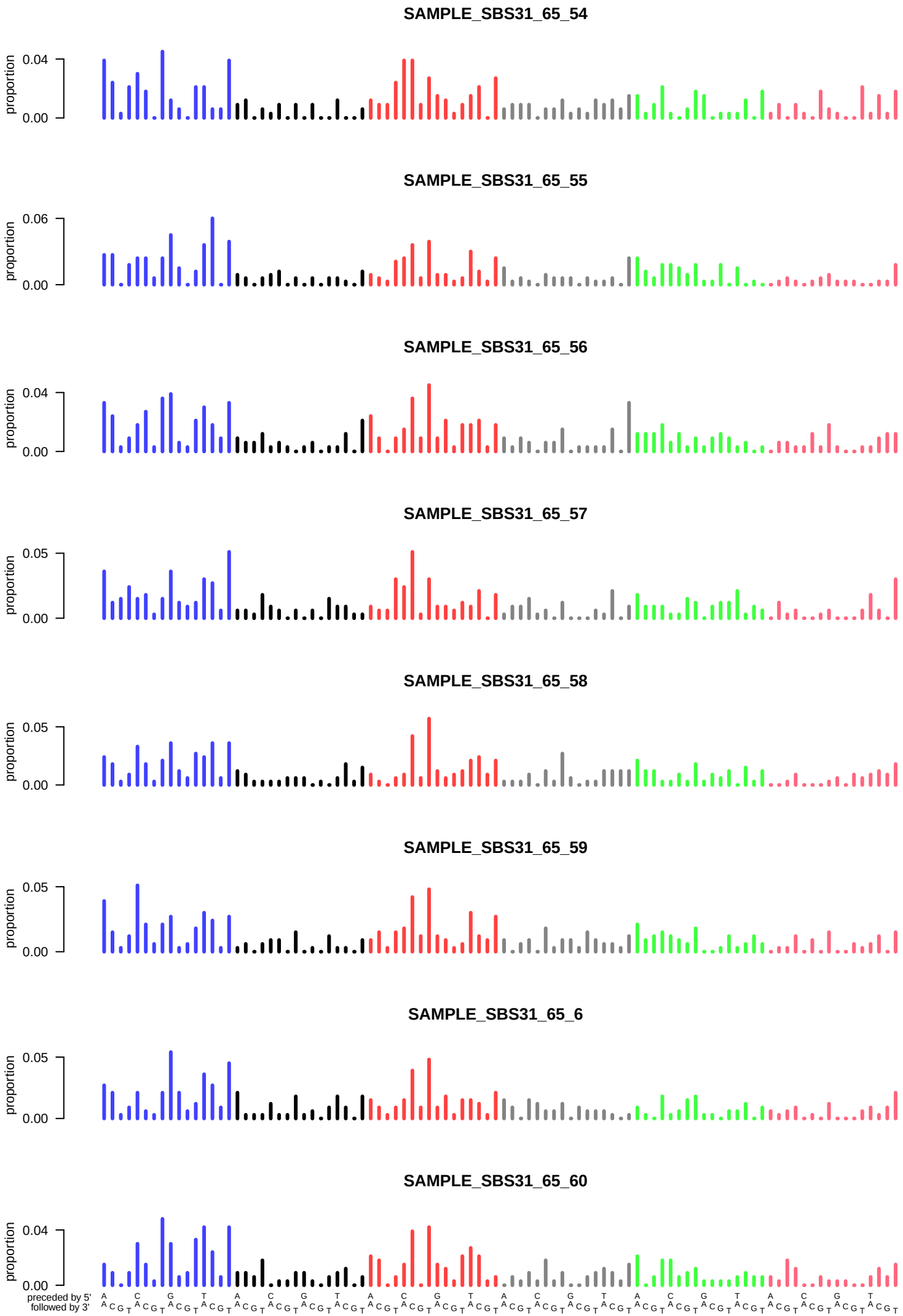
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followed by 3'
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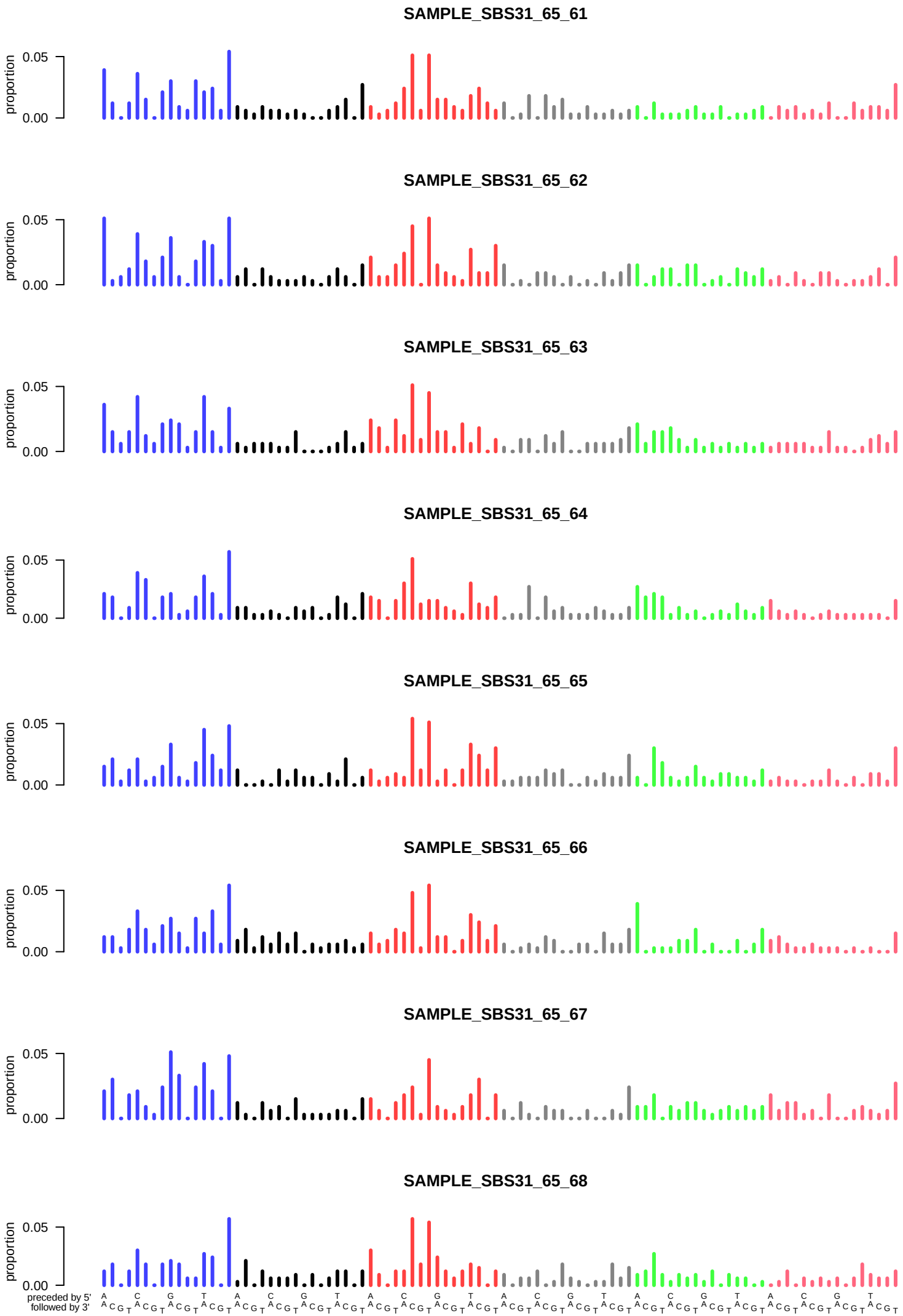
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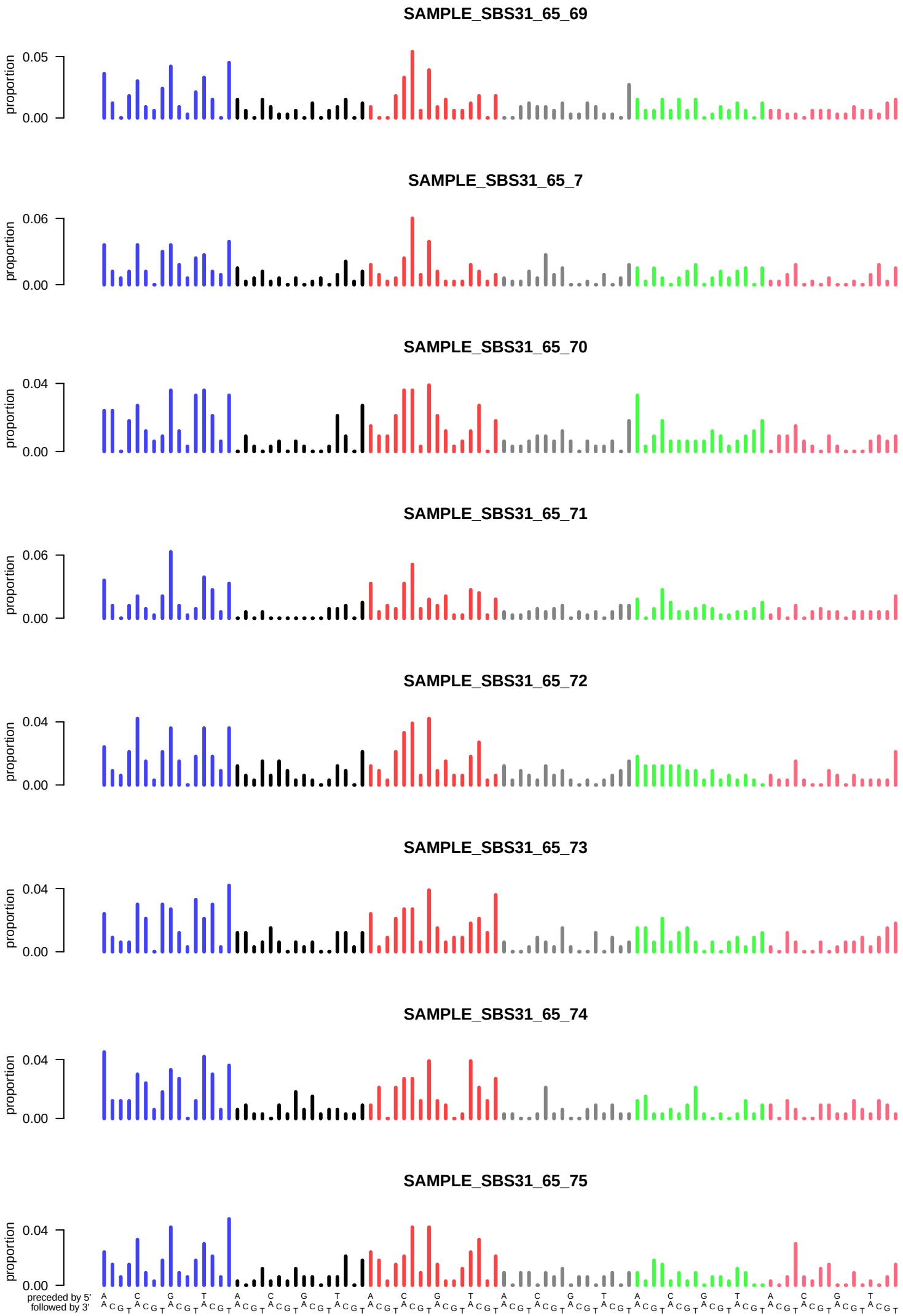
followed by 3'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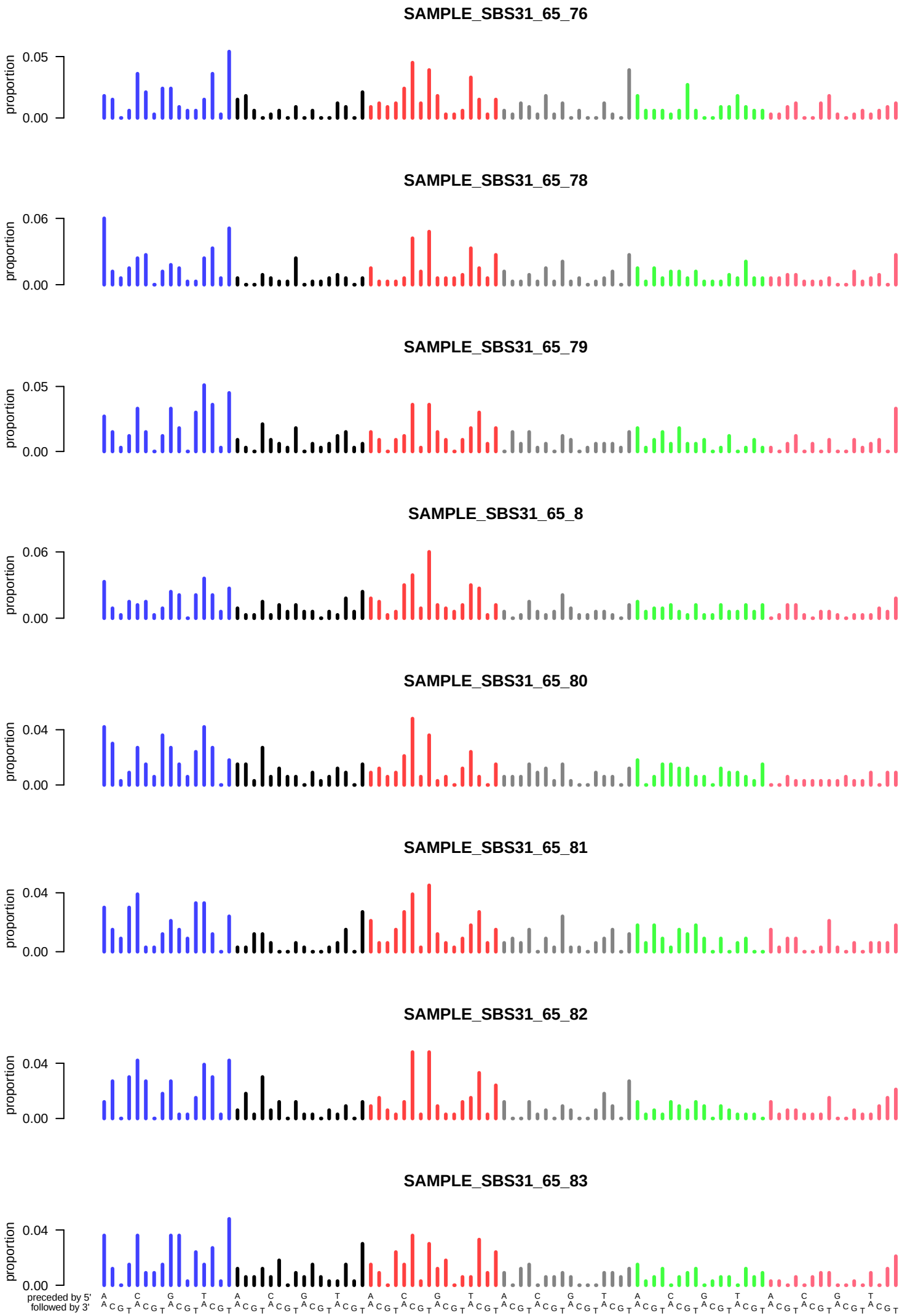
followed by 3'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SAMPLE_SBS31_65_82
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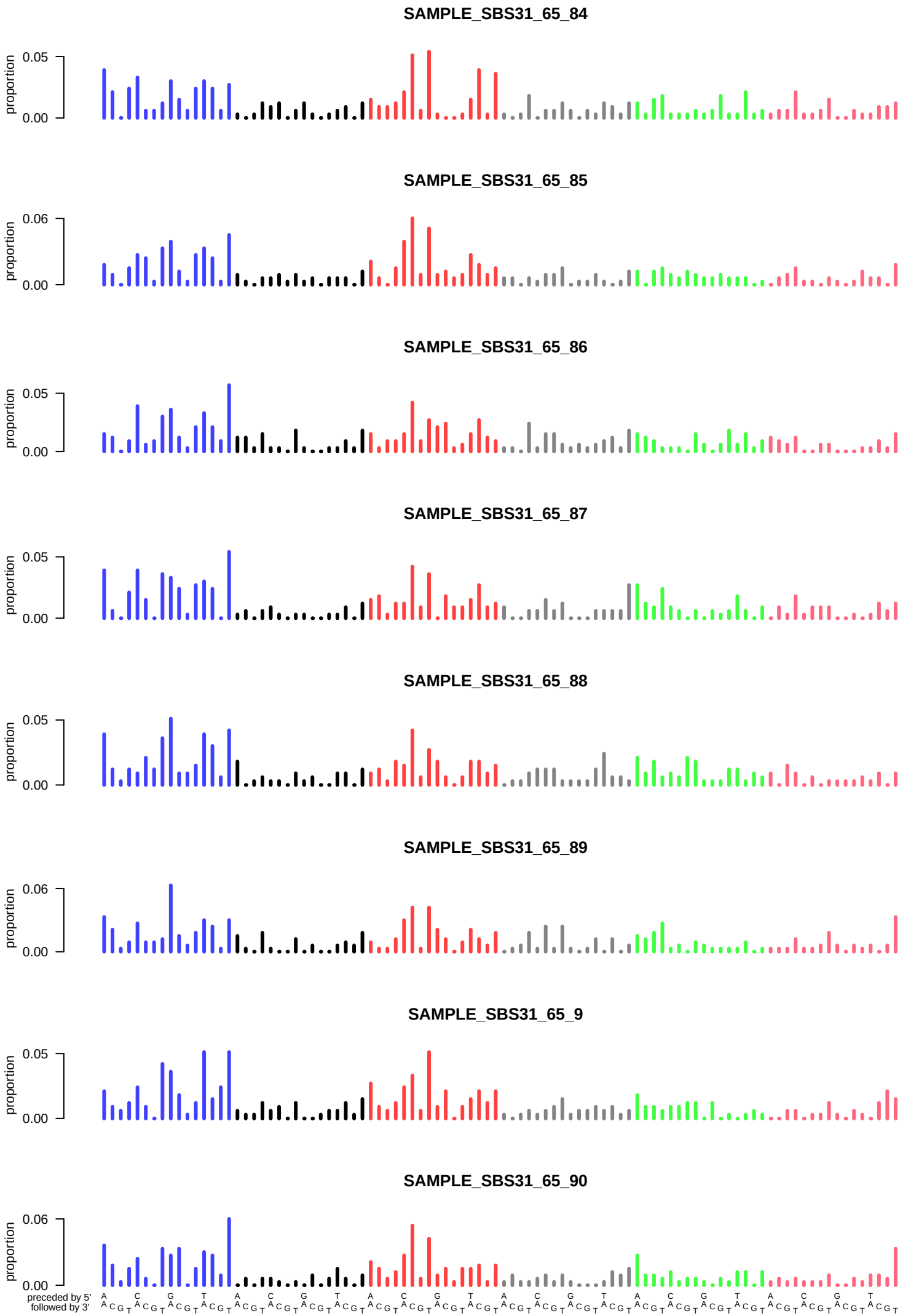
followed by 3'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SAMPLE_SBS31_65_9
proportion
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followed by 3'
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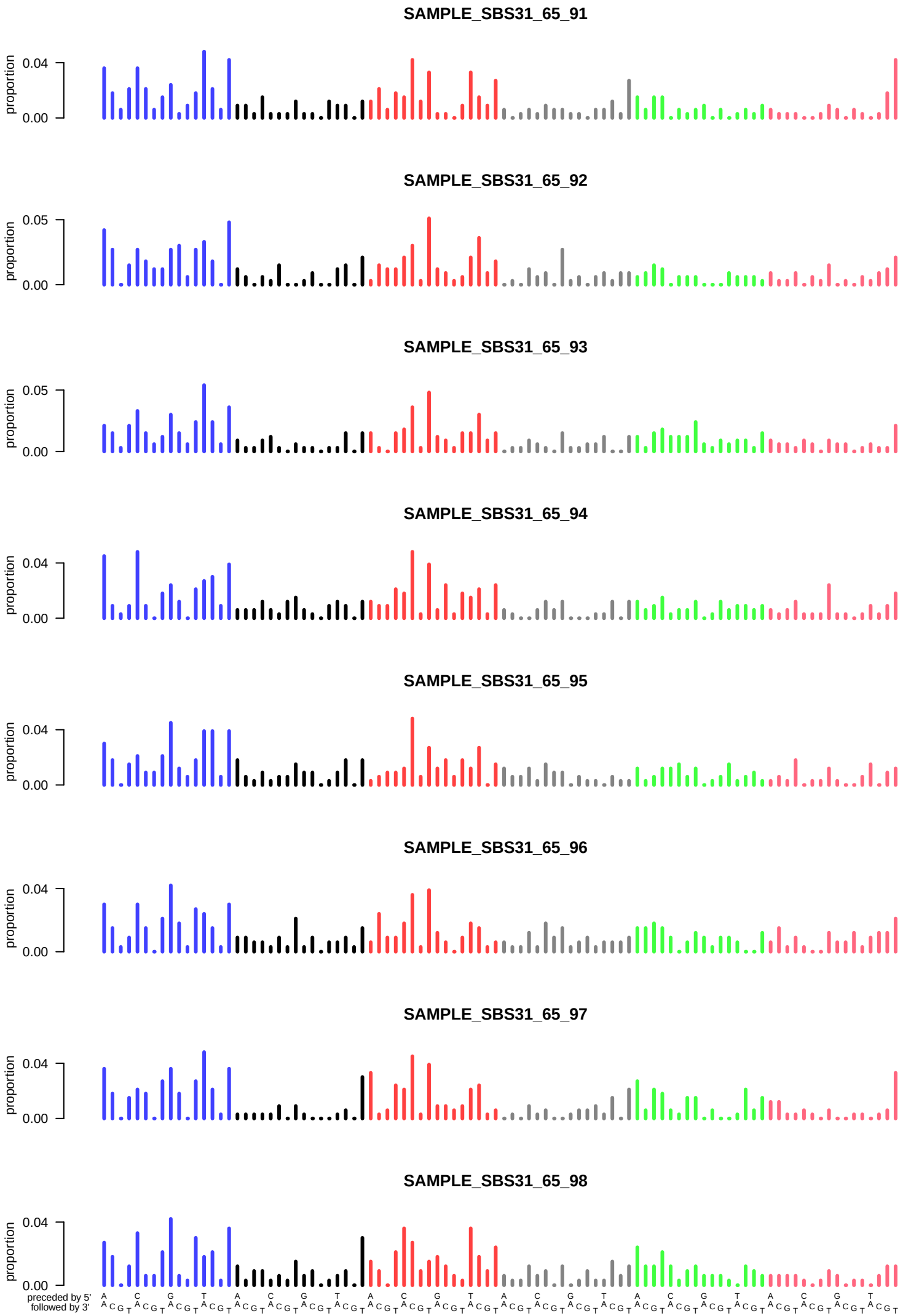
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SAMPLE_SBS31_65_97
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followed by 3'
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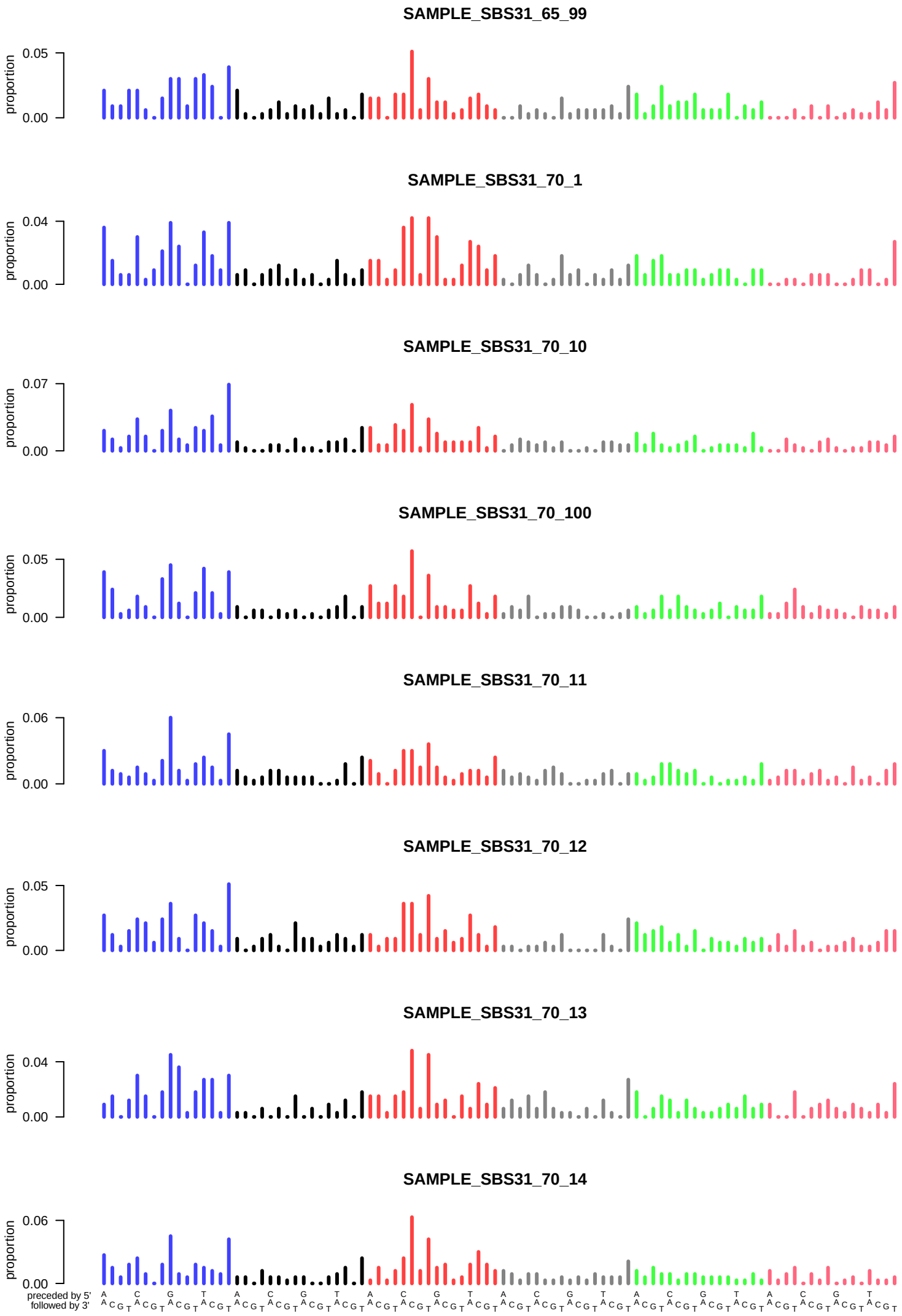
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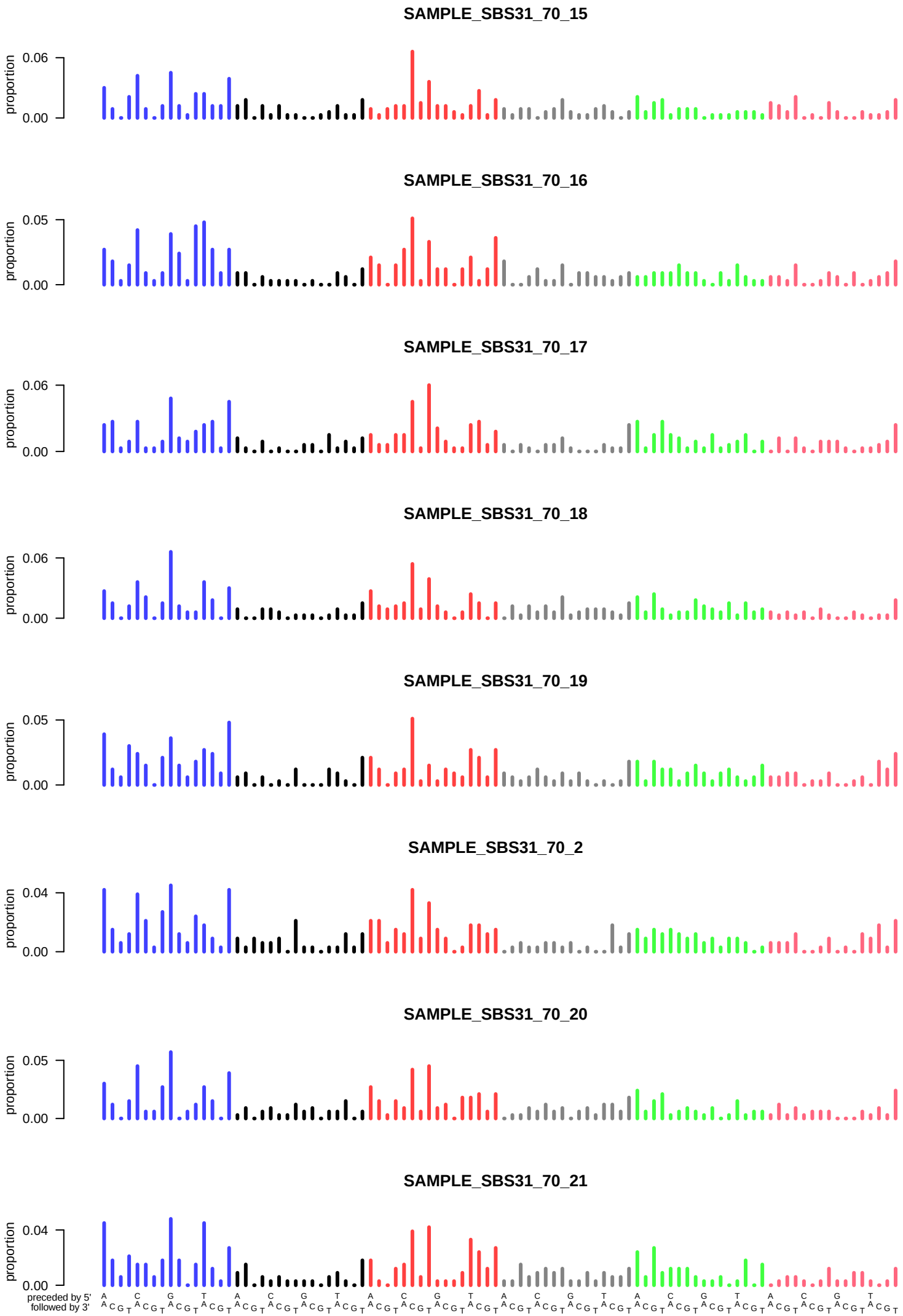
followed by 3'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SAMPLE_SBS31_70_20
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followed by 3'
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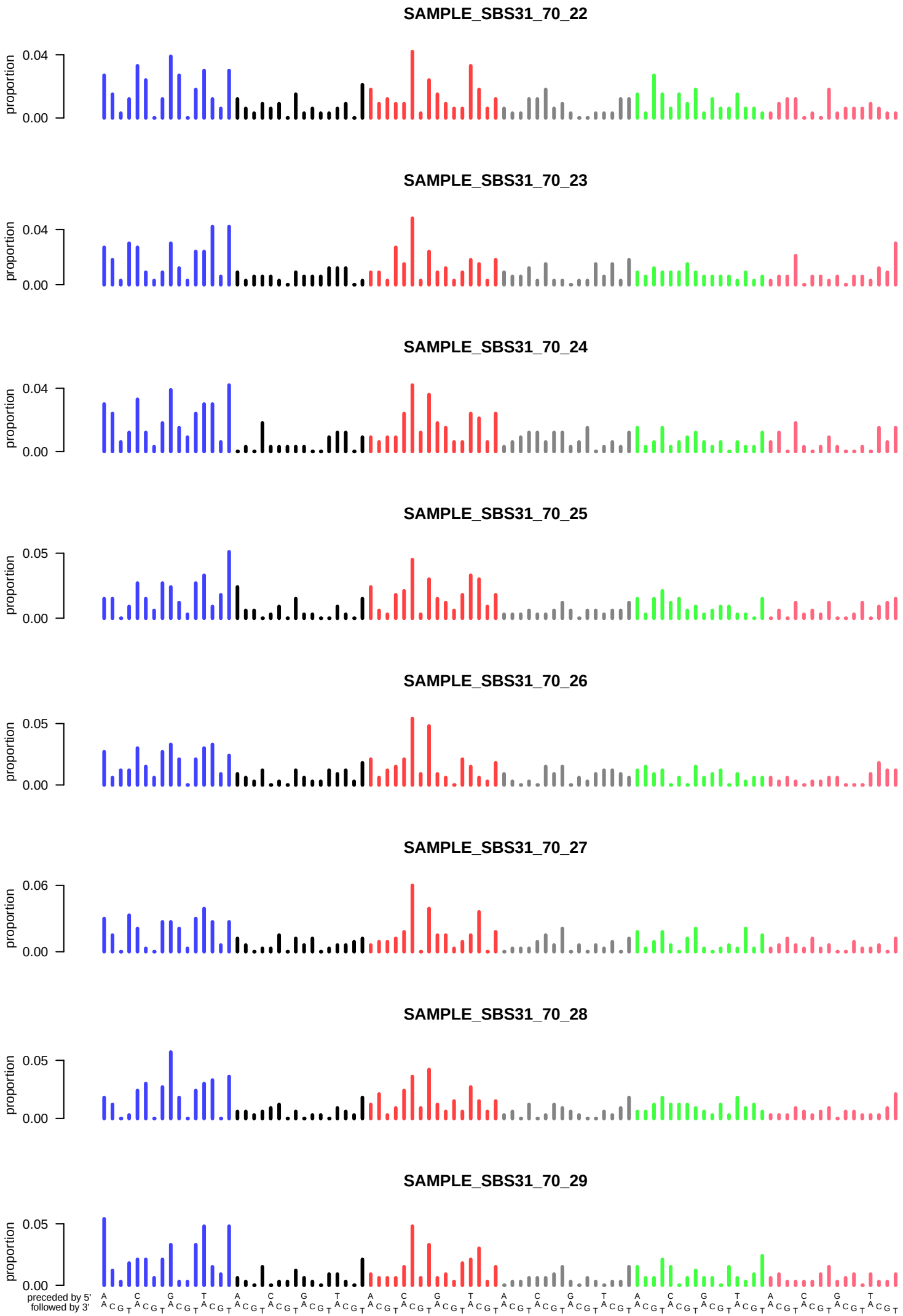
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SAMPLE_SBS31_70_28
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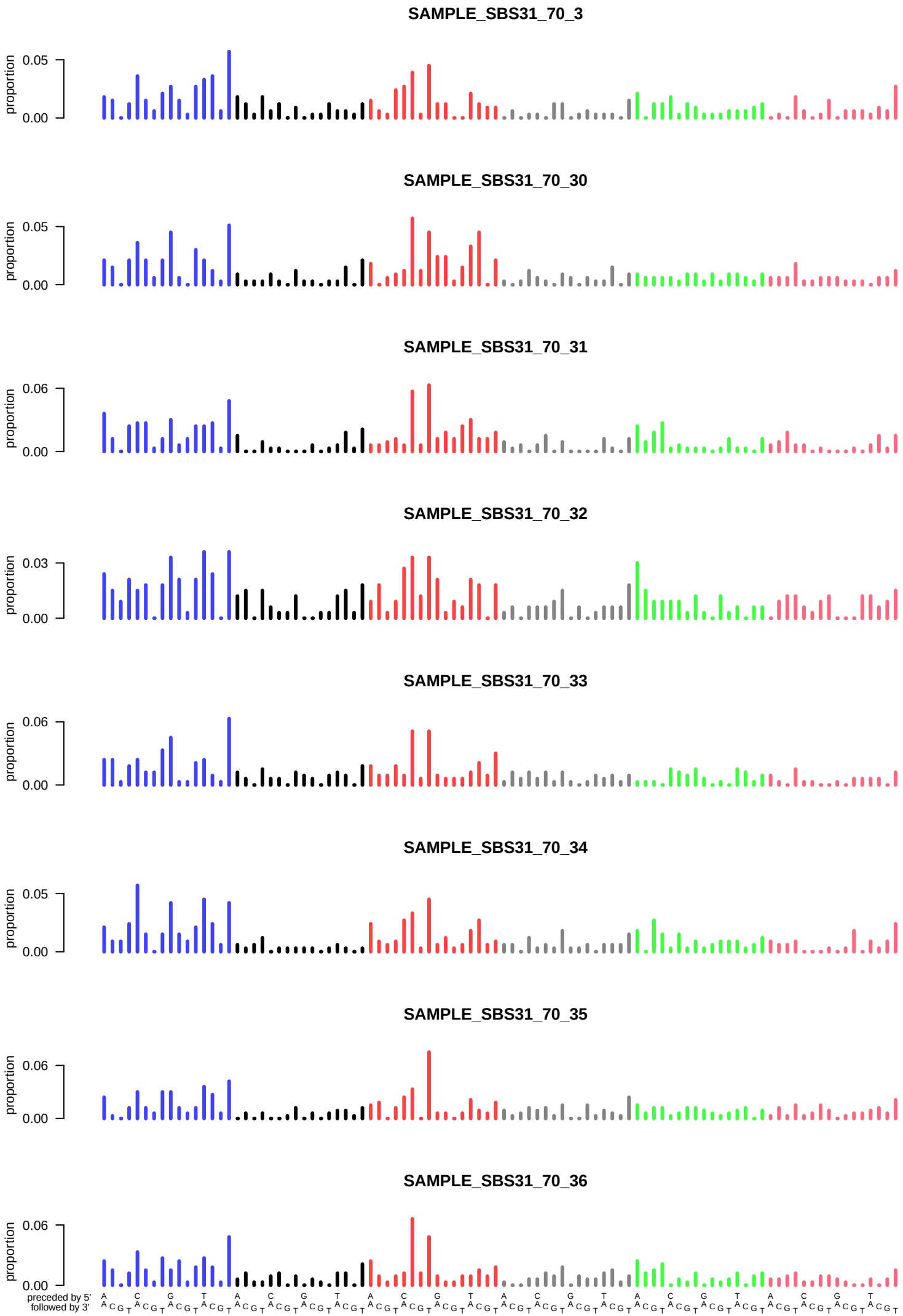
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SAMPLE_SBS31_70_34
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SAMPLE_SBS31_70_35
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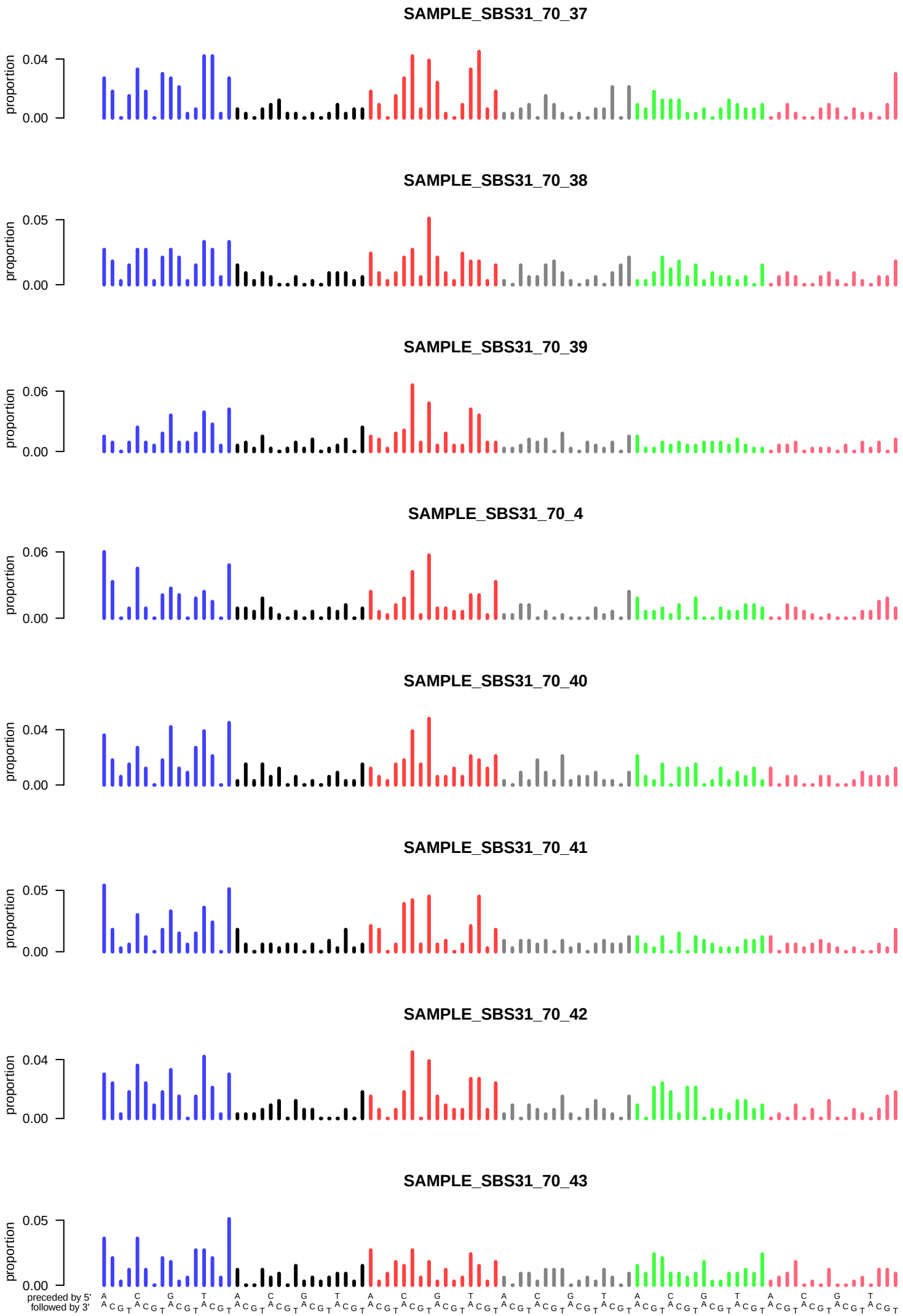
followed by 3'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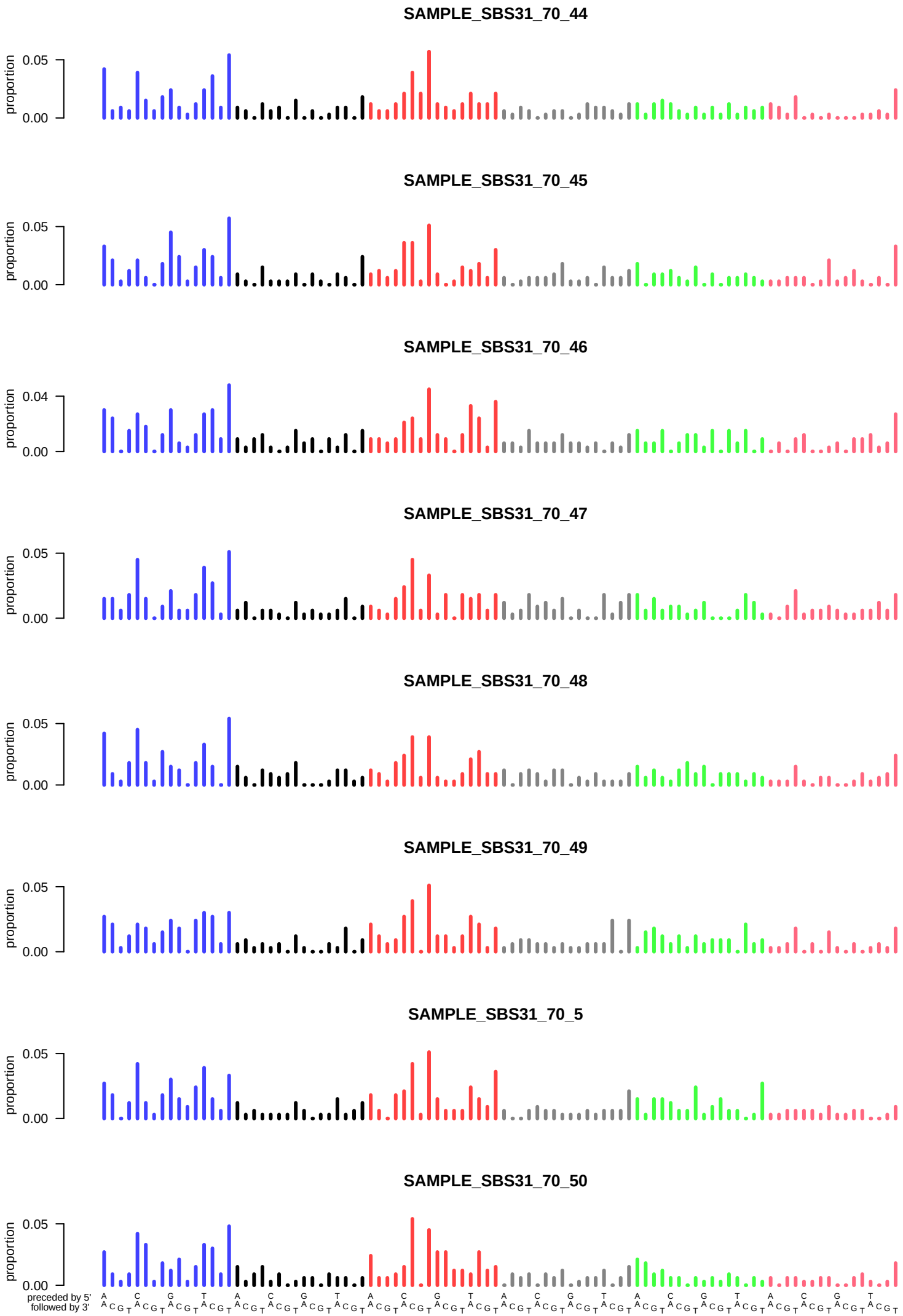
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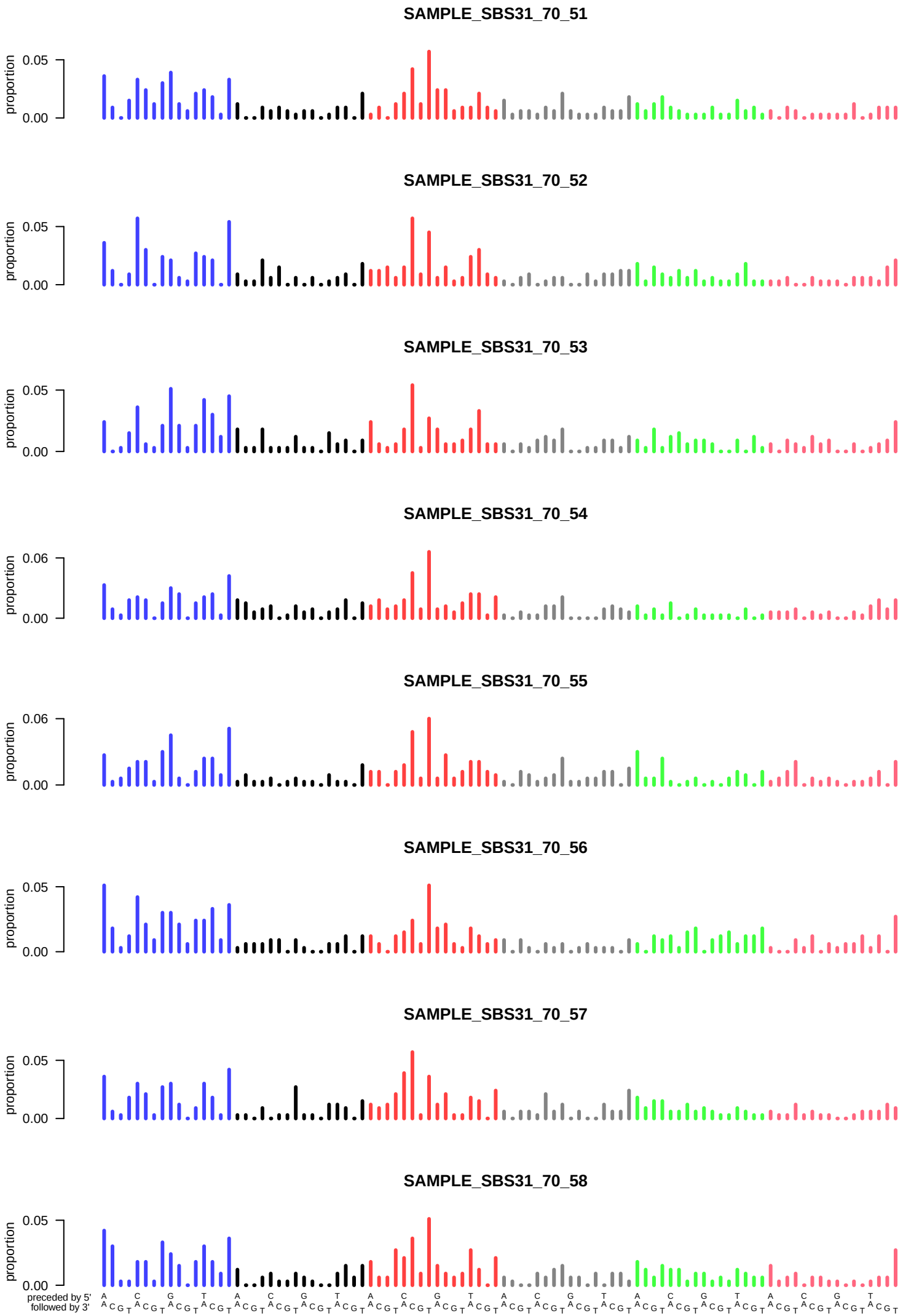
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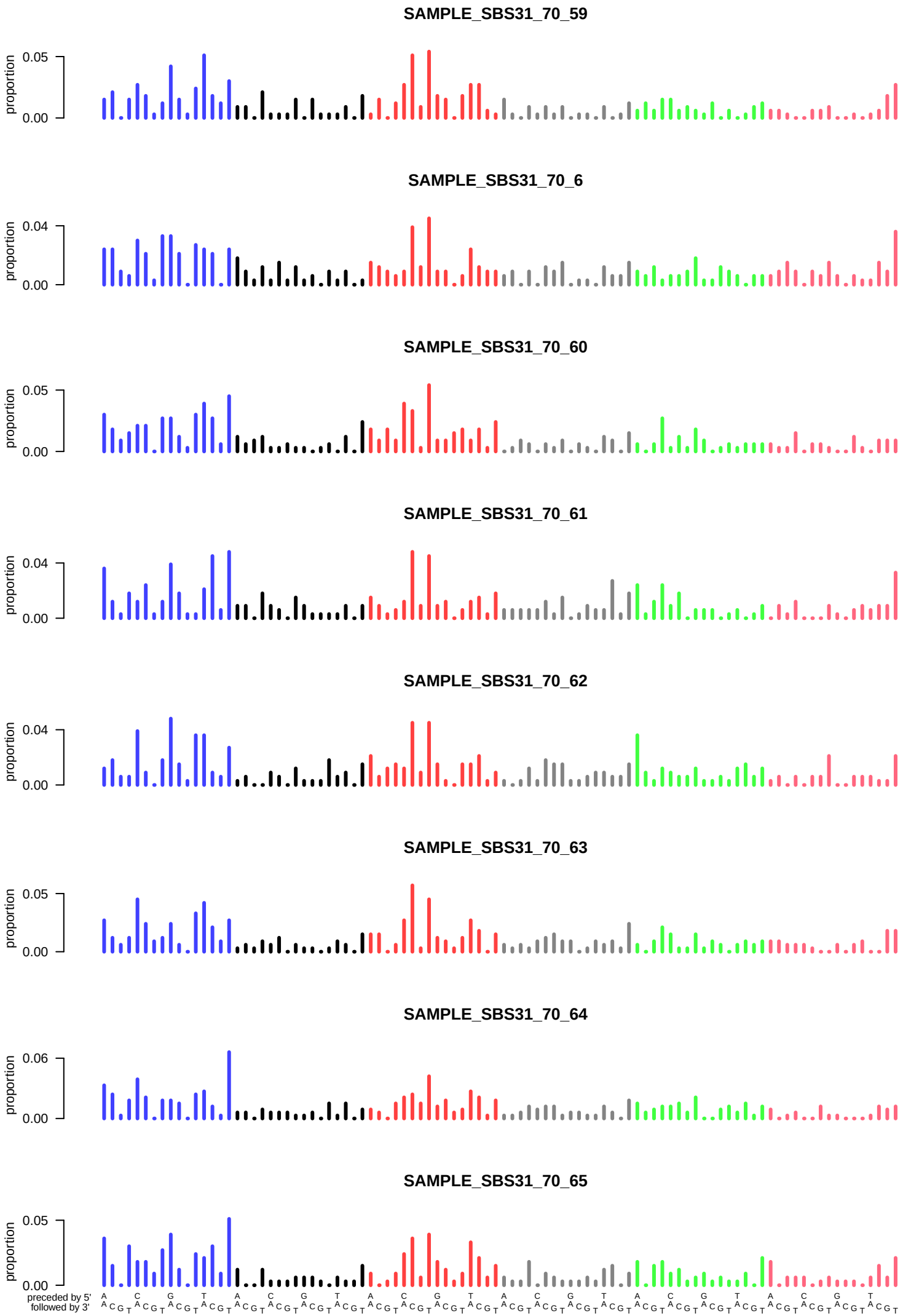
A C G T A C G T A C G T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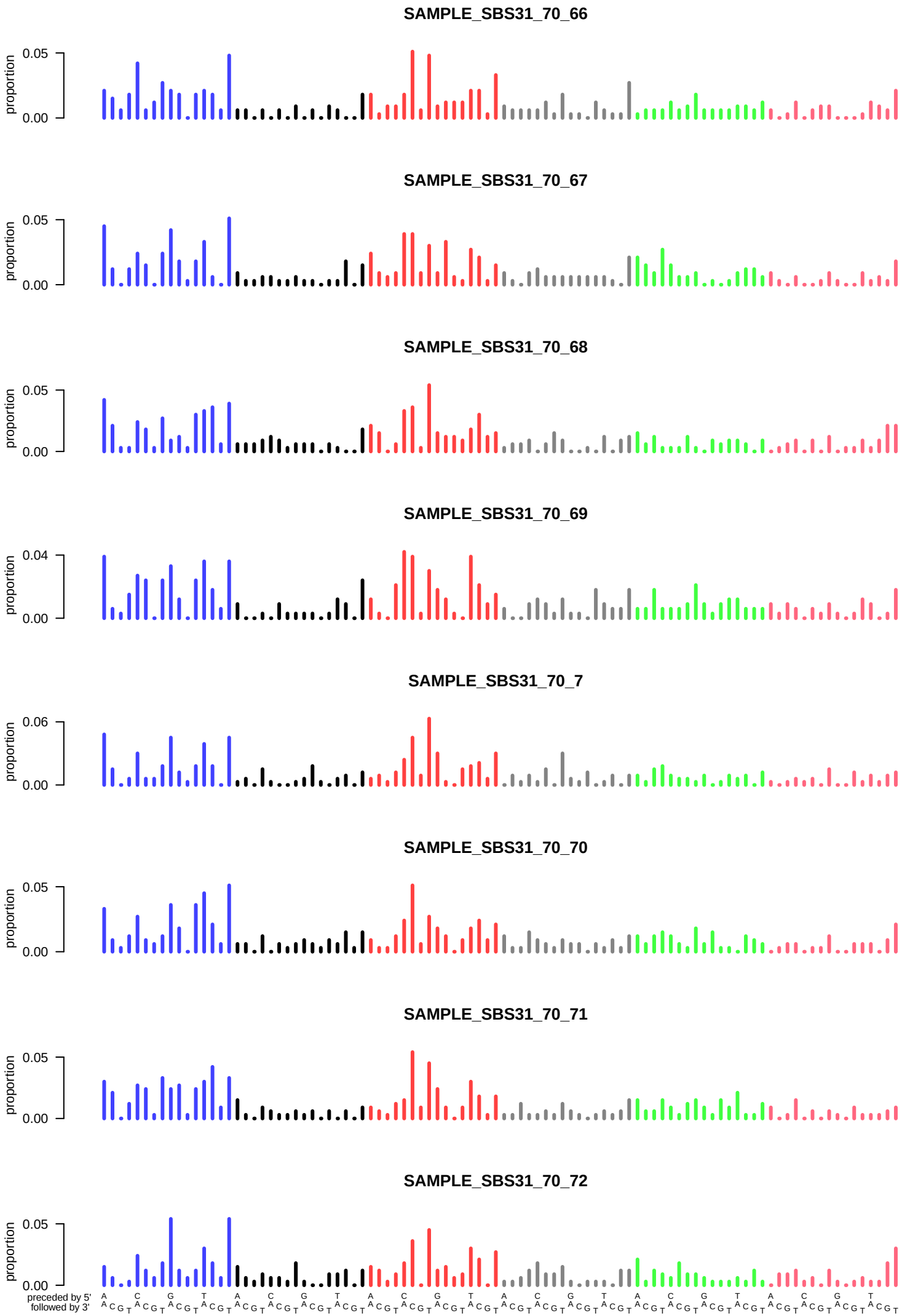
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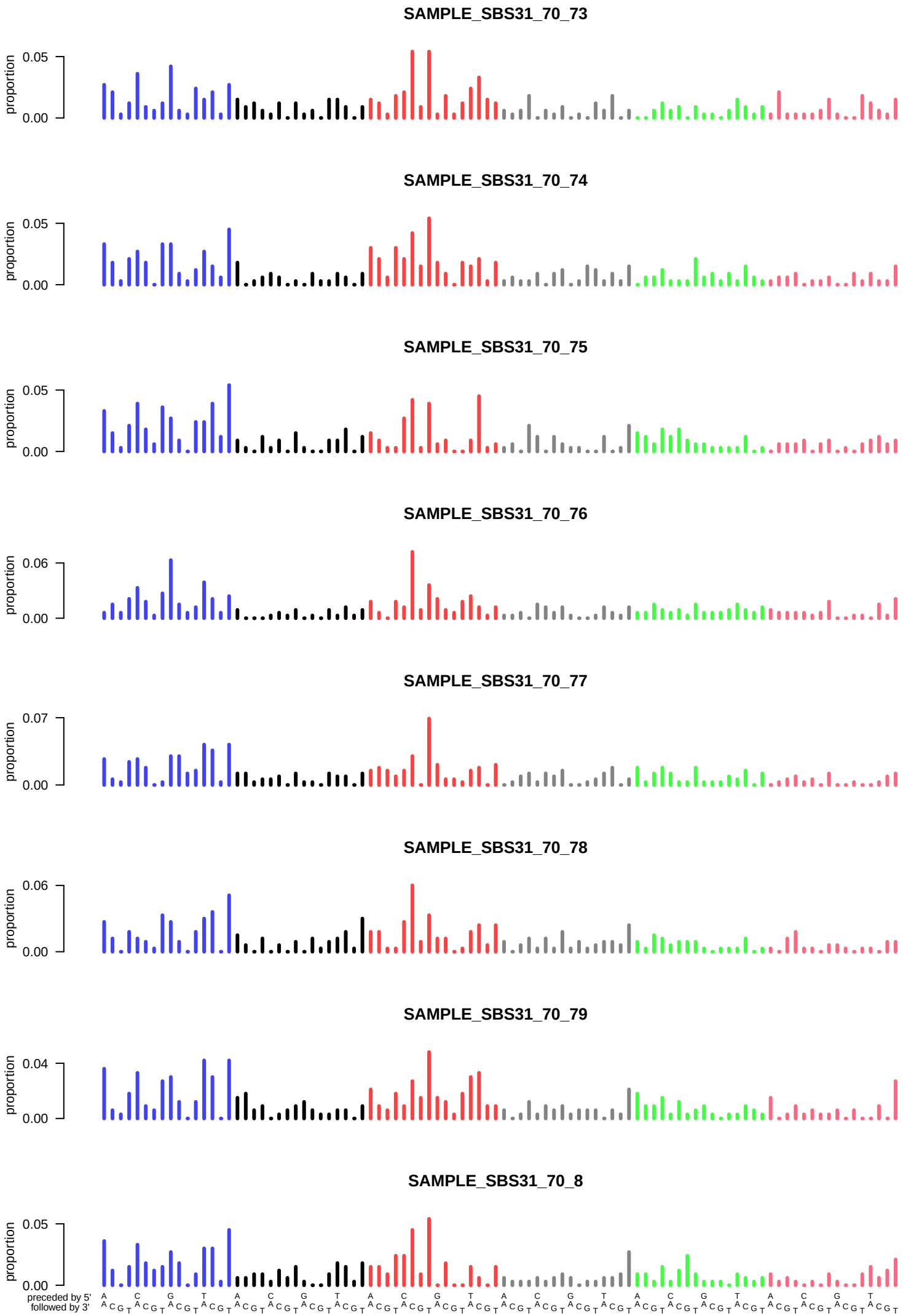
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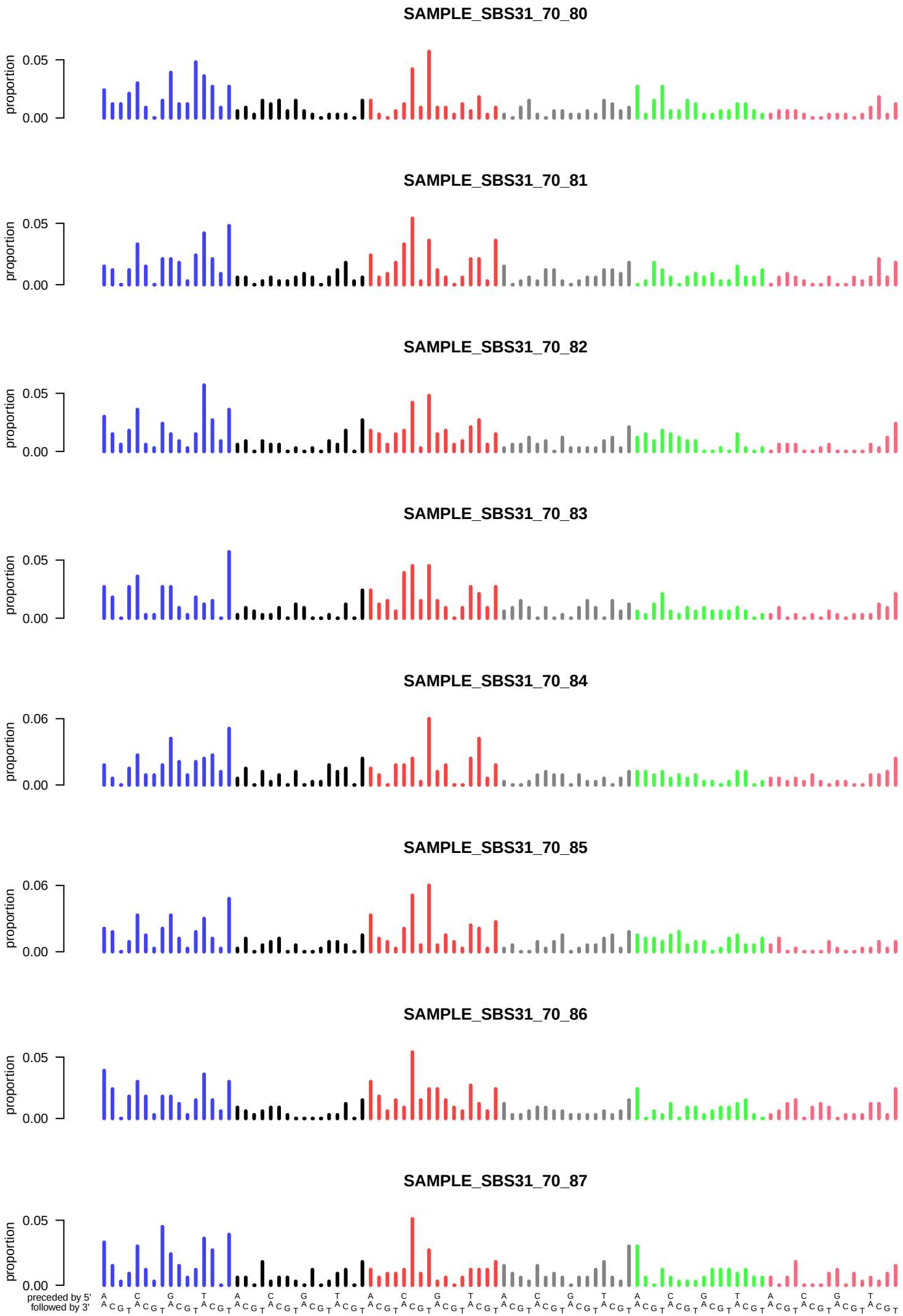
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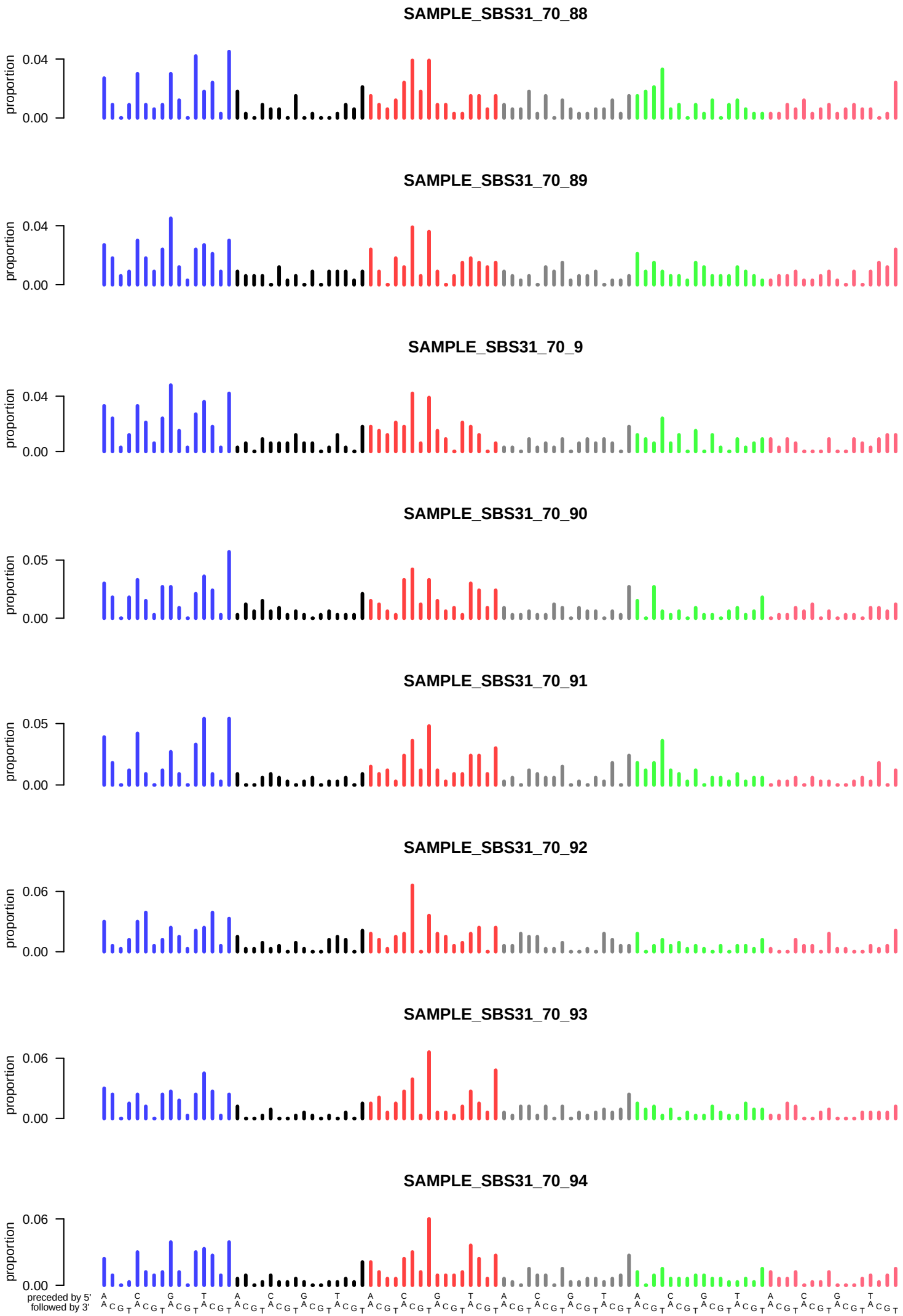
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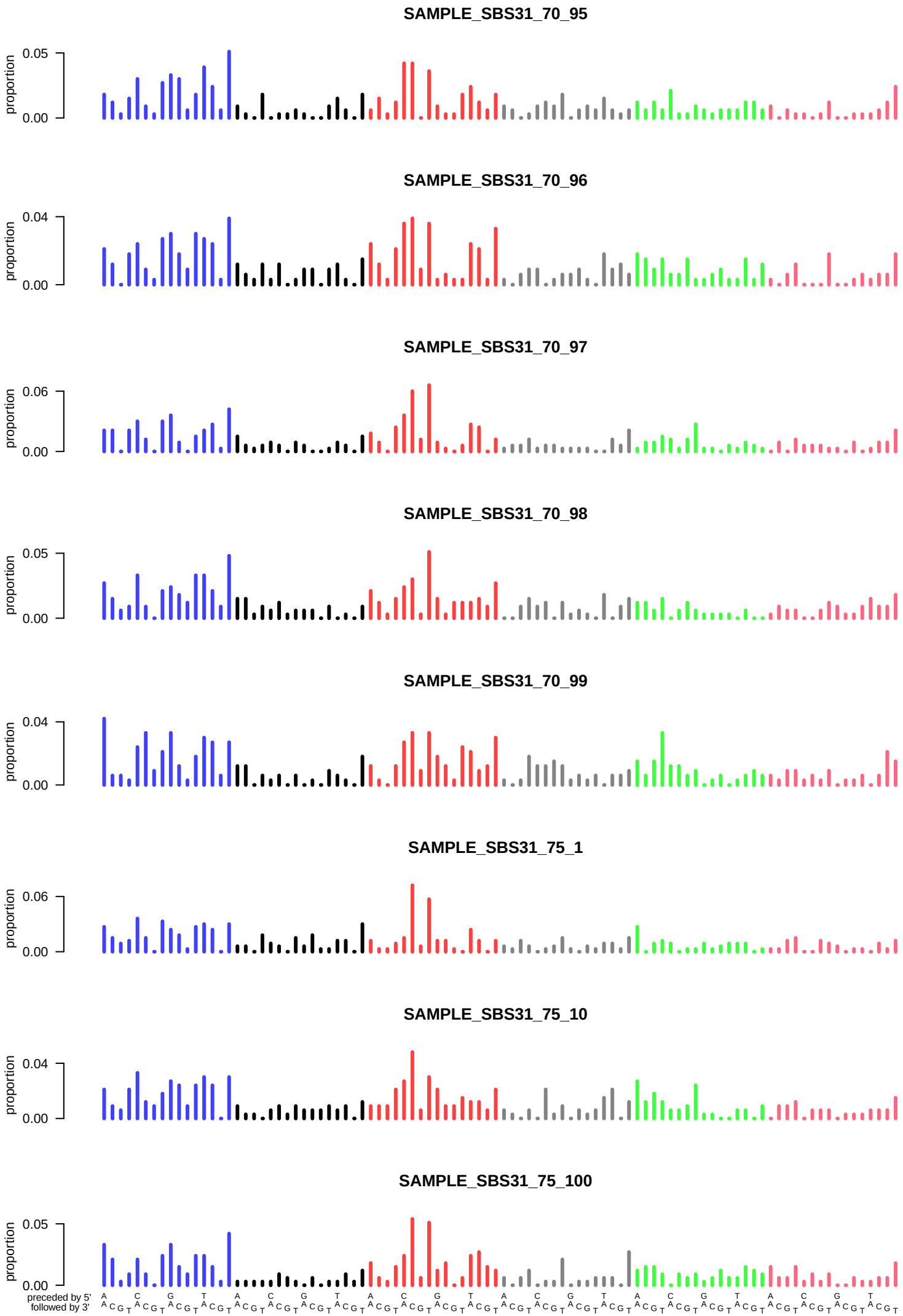
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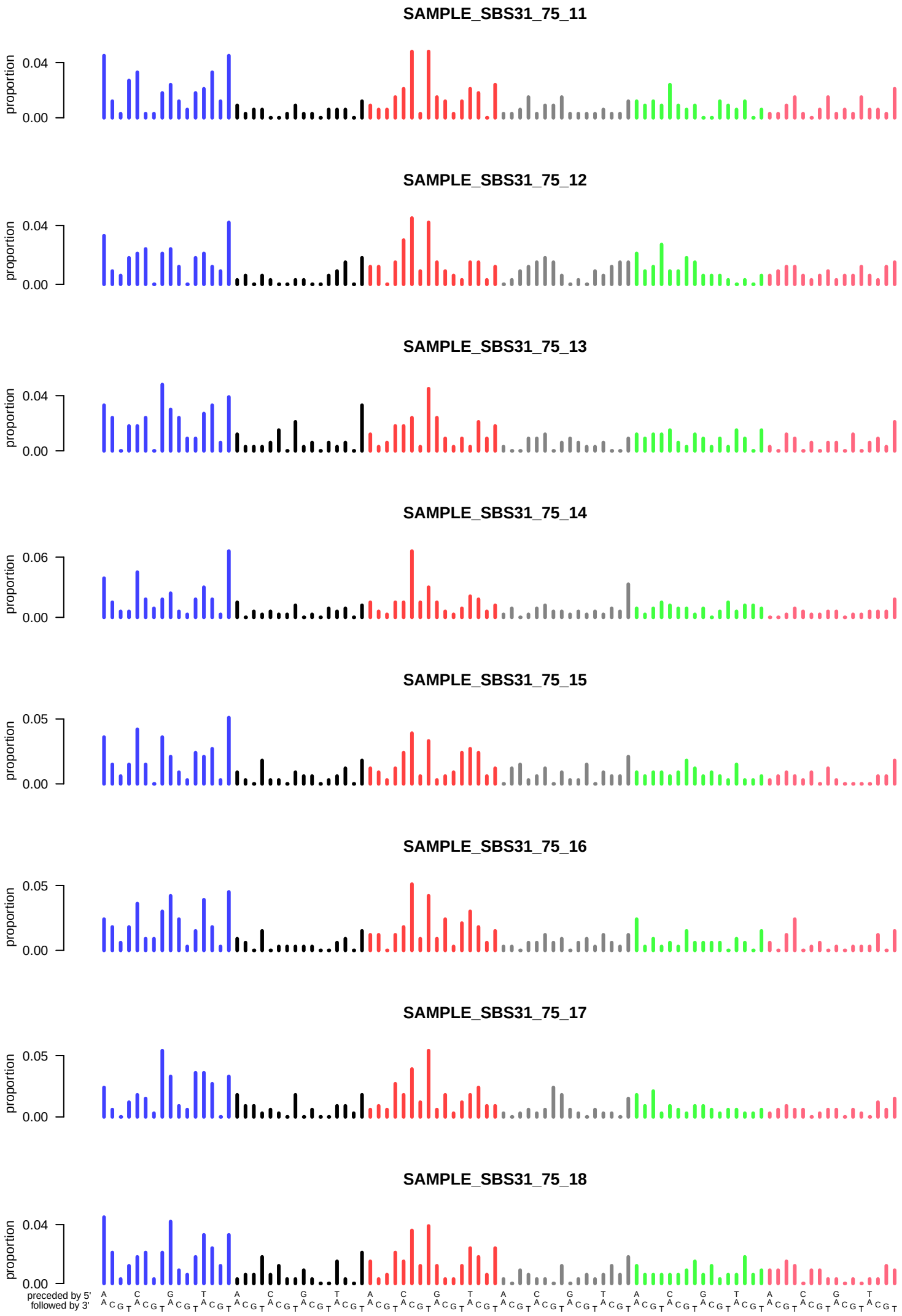
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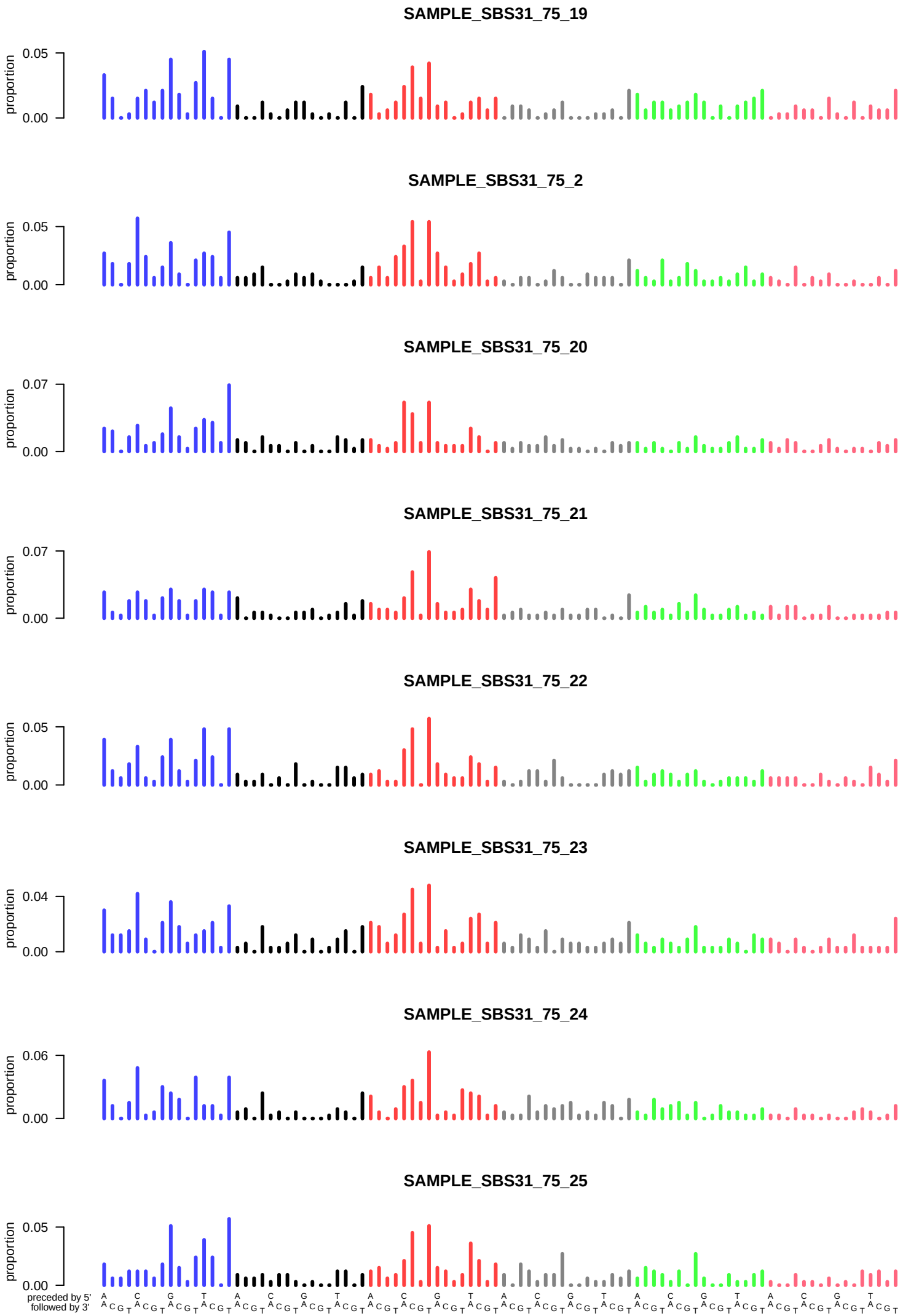
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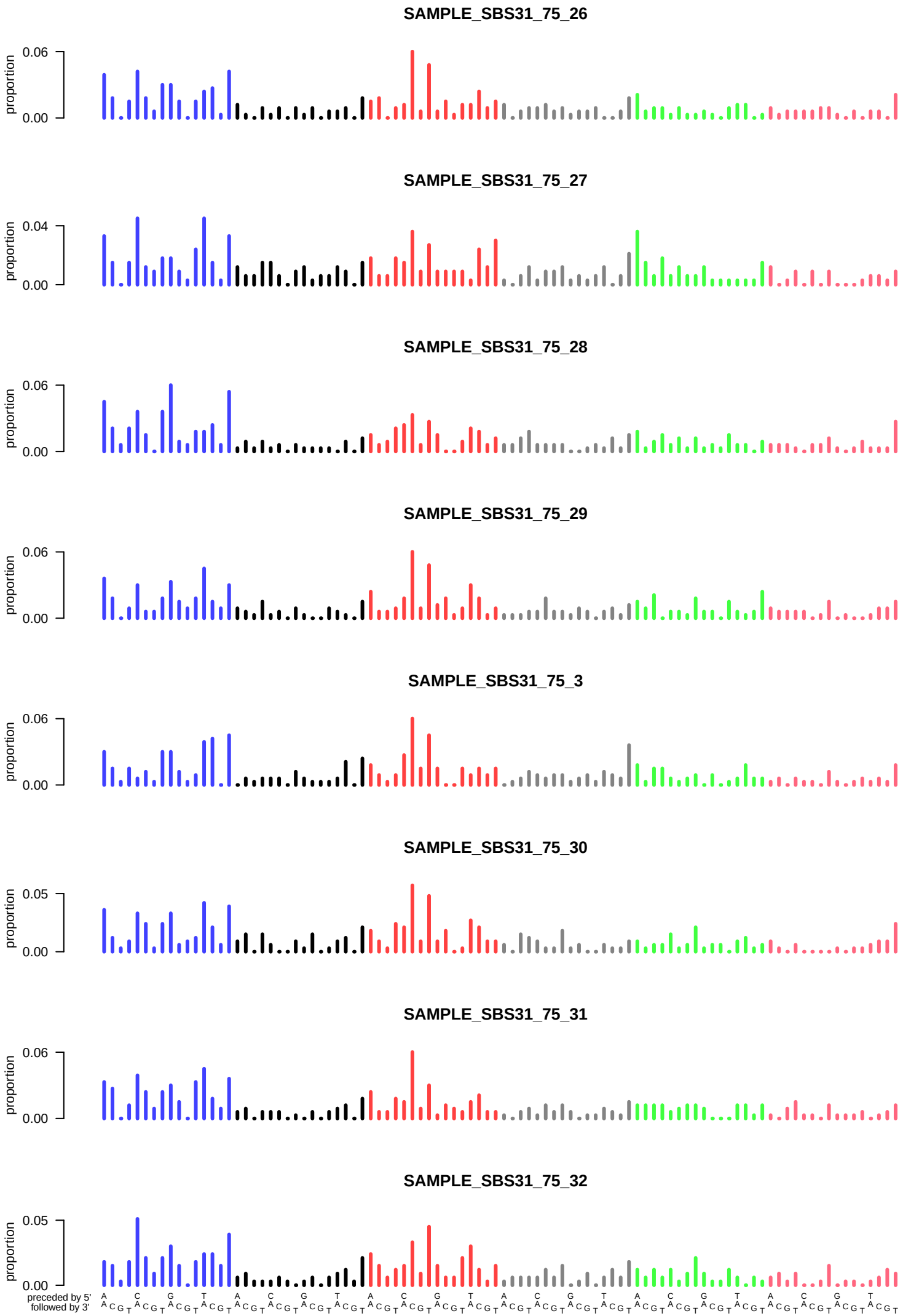
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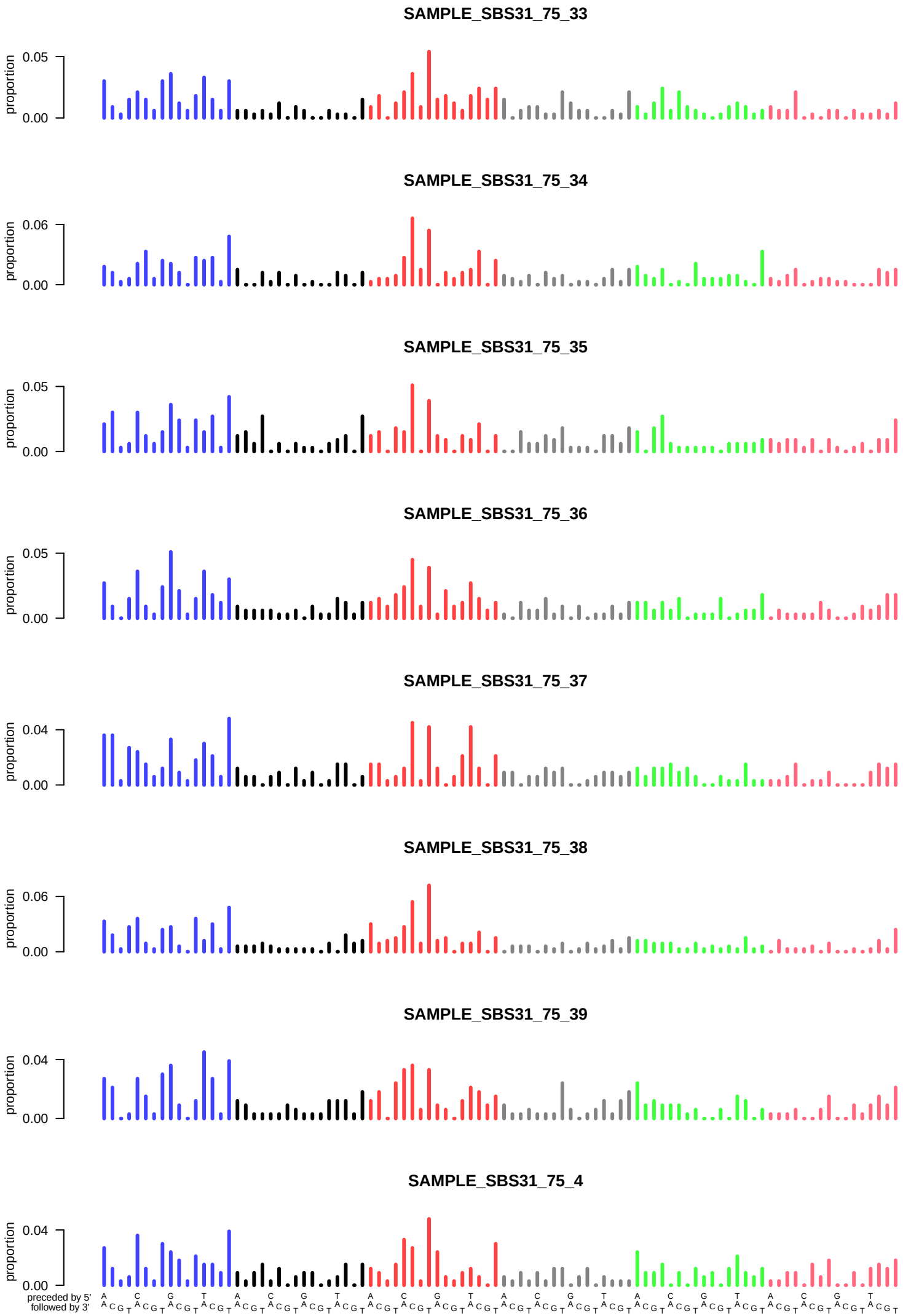
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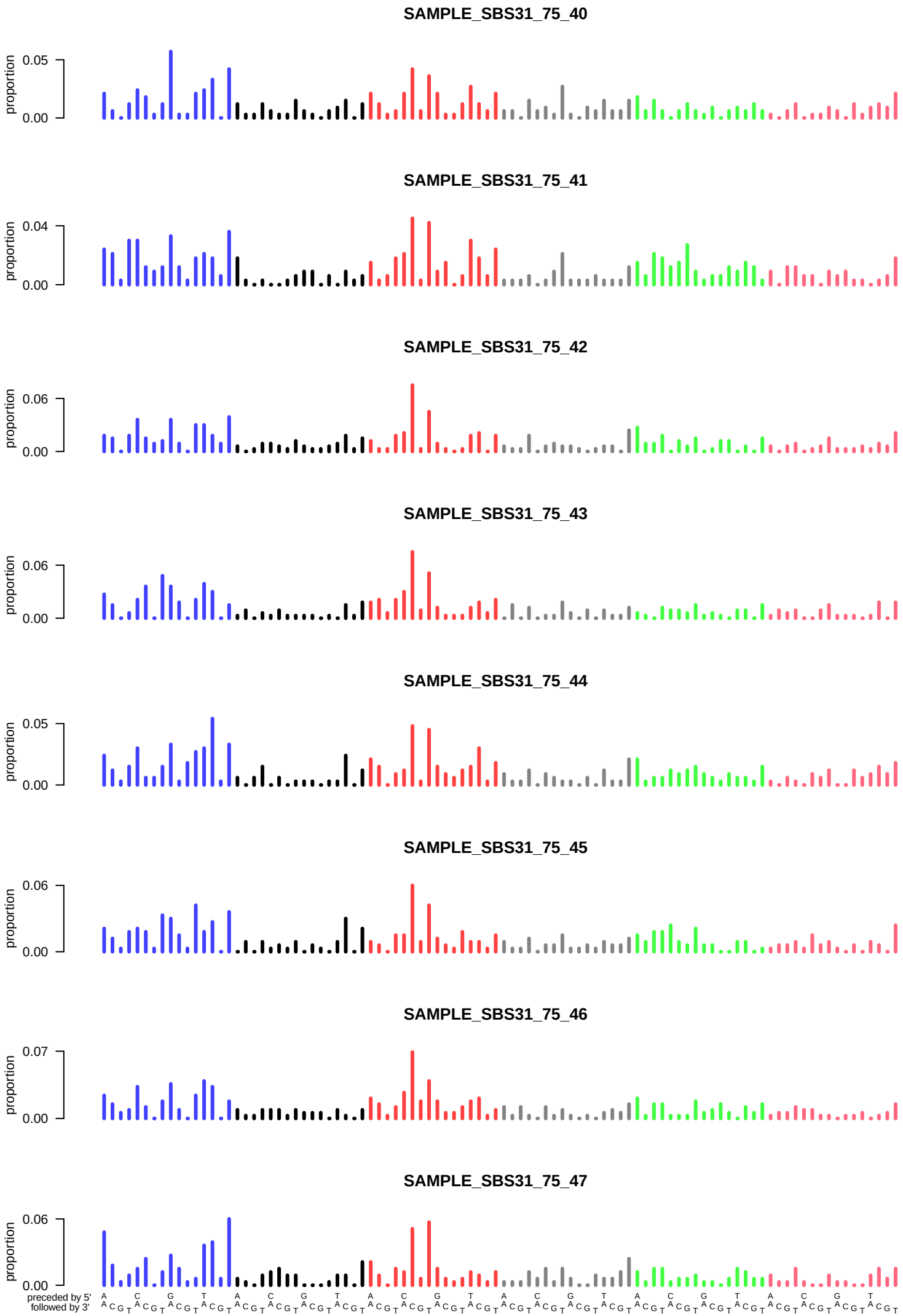
A C G T A C G T A C G T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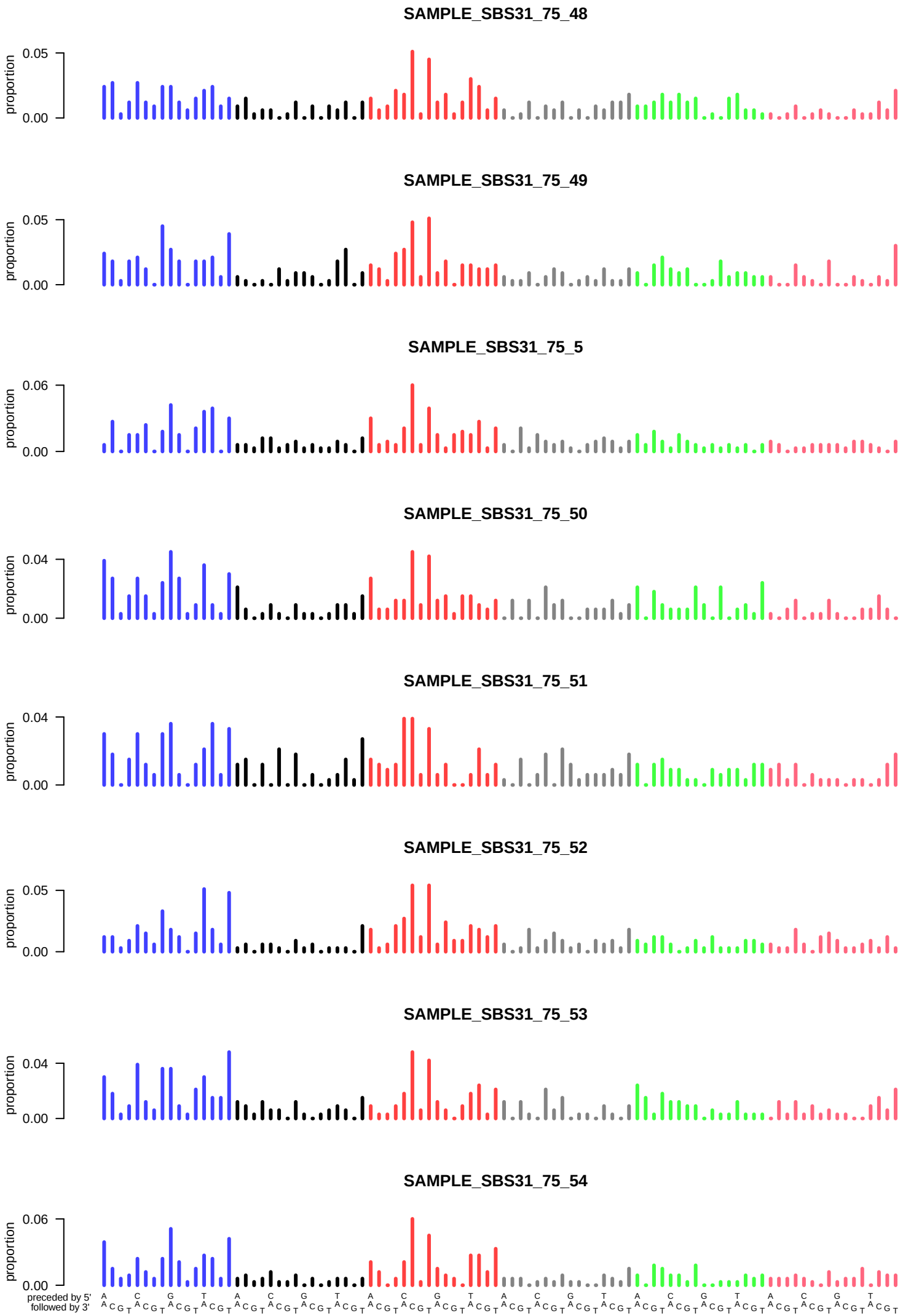
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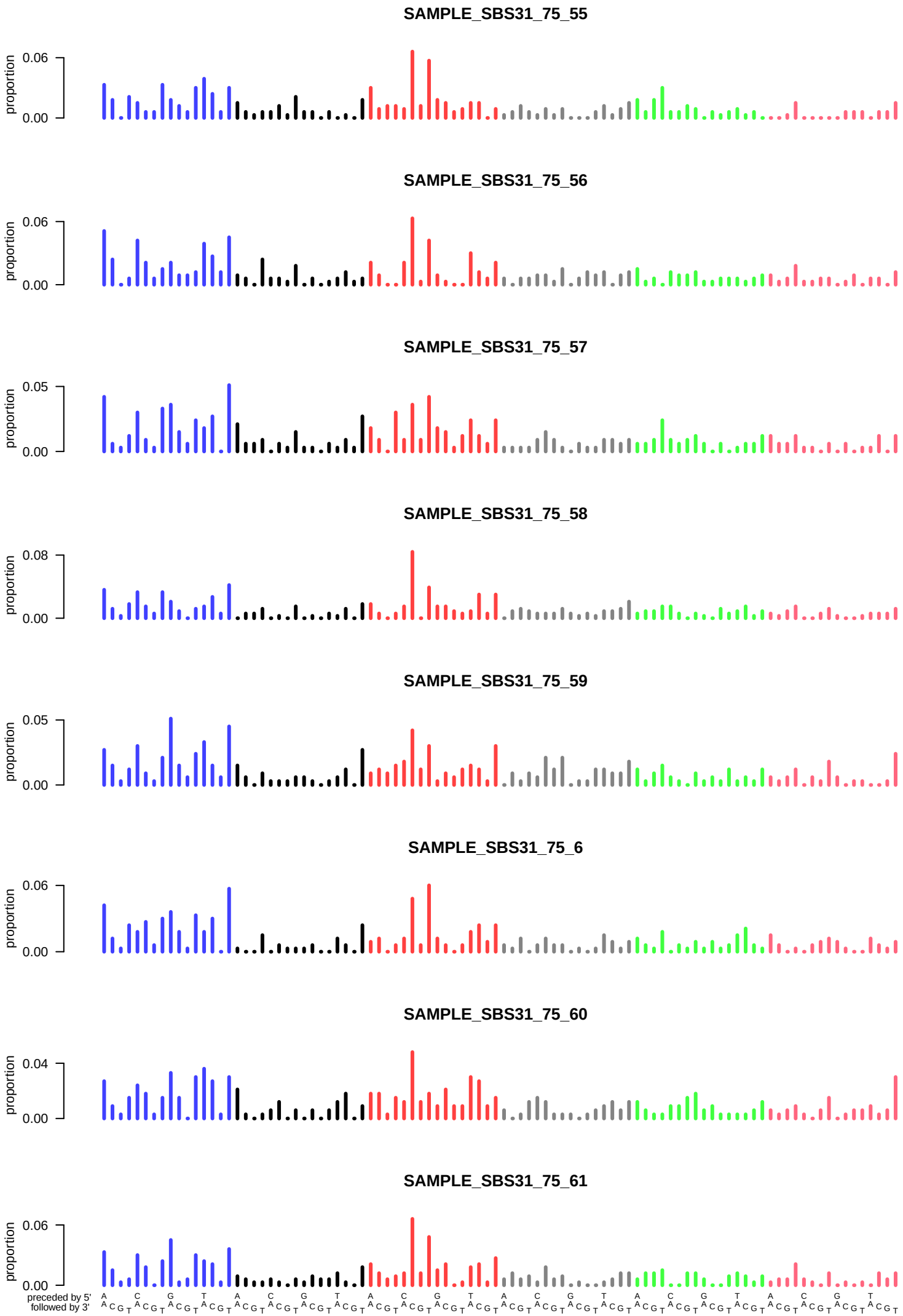
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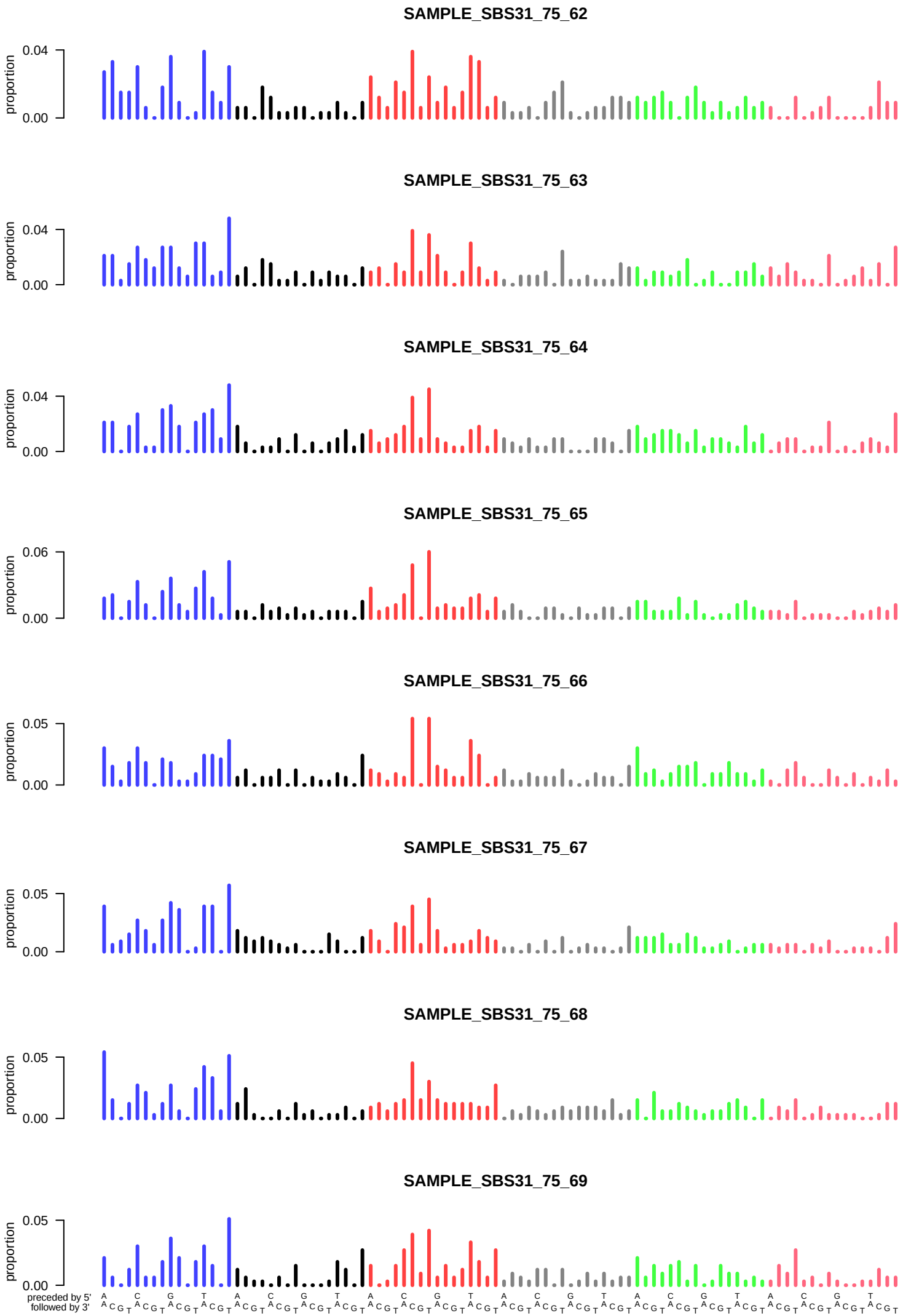
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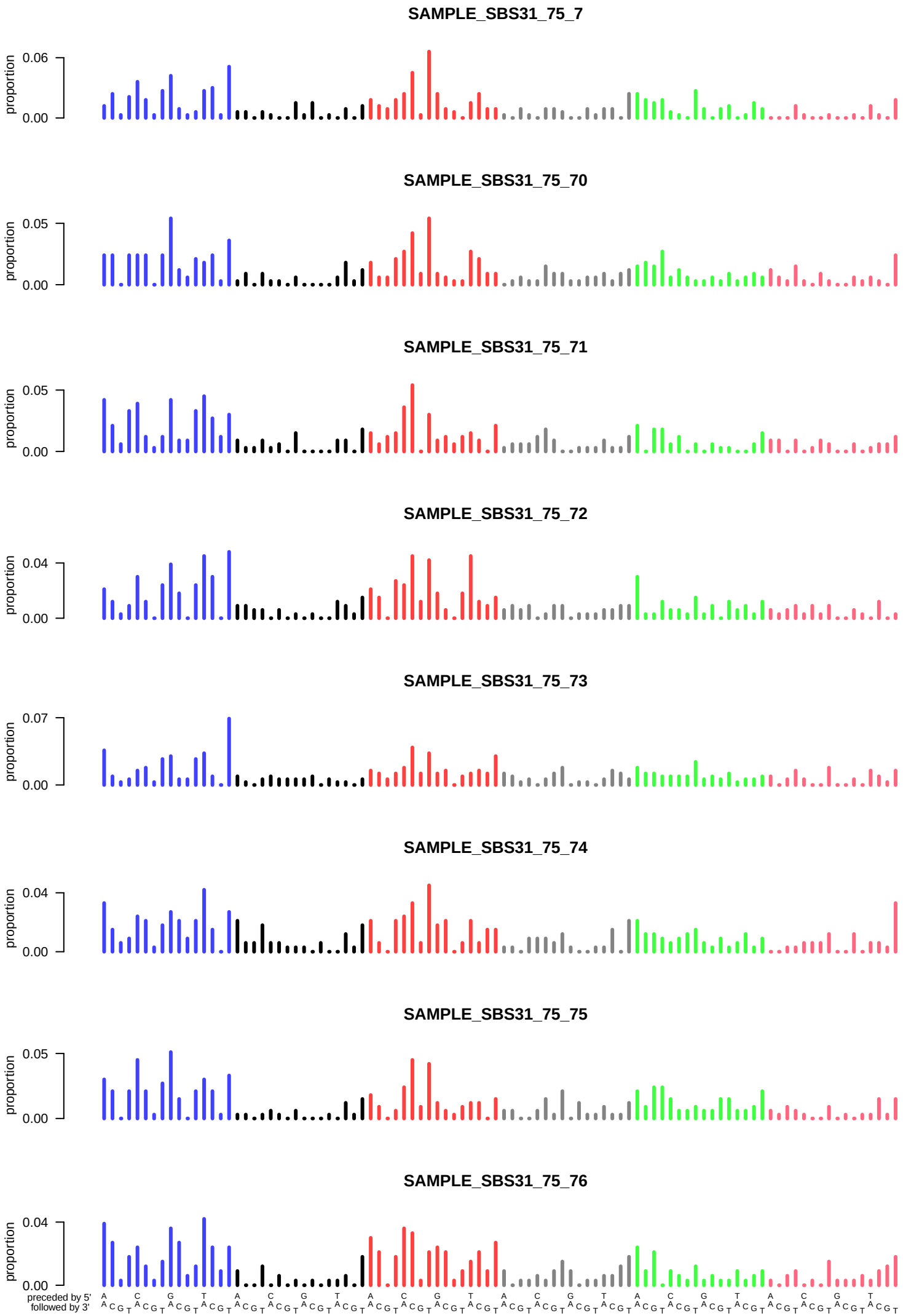
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followed by 3'
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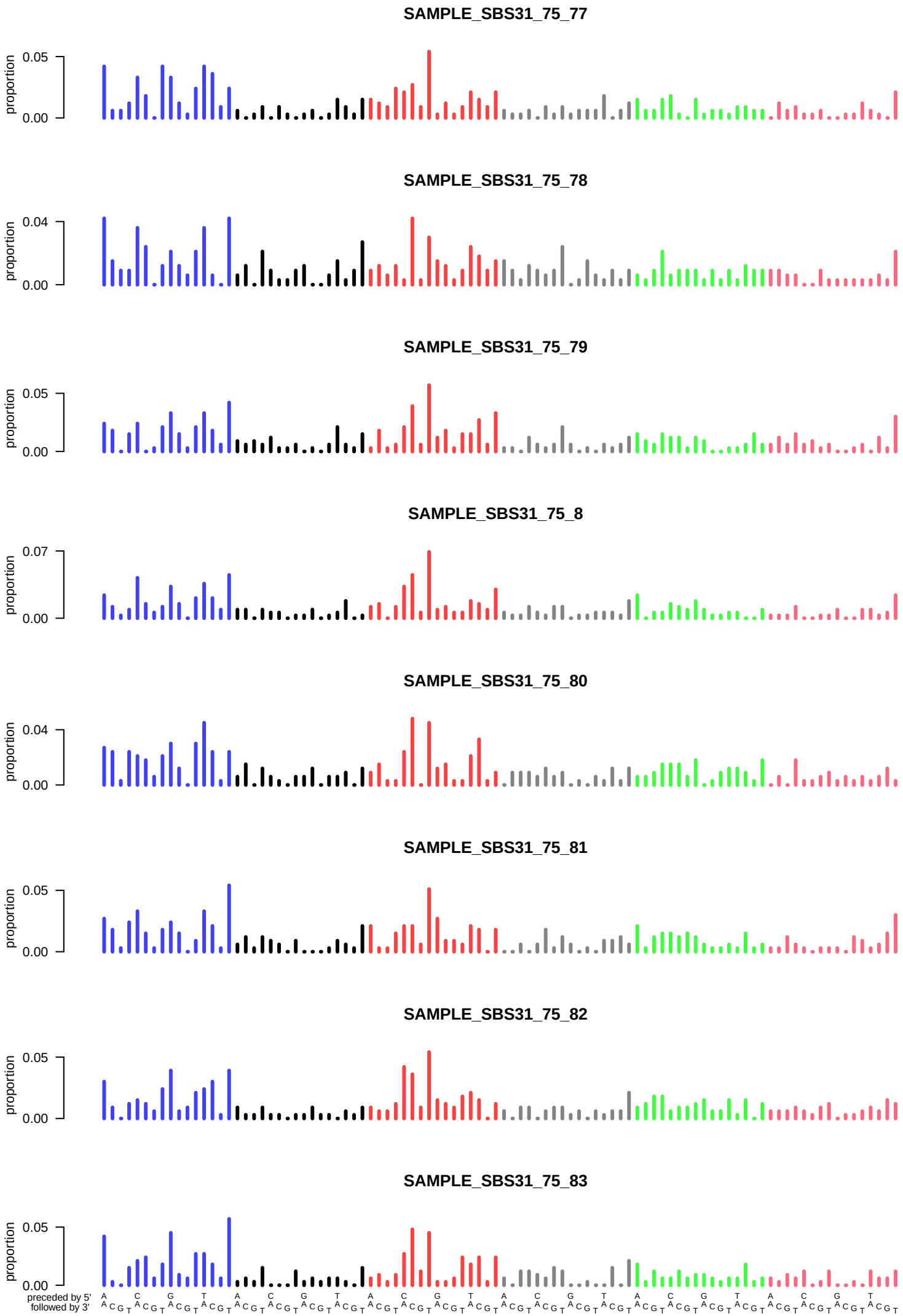
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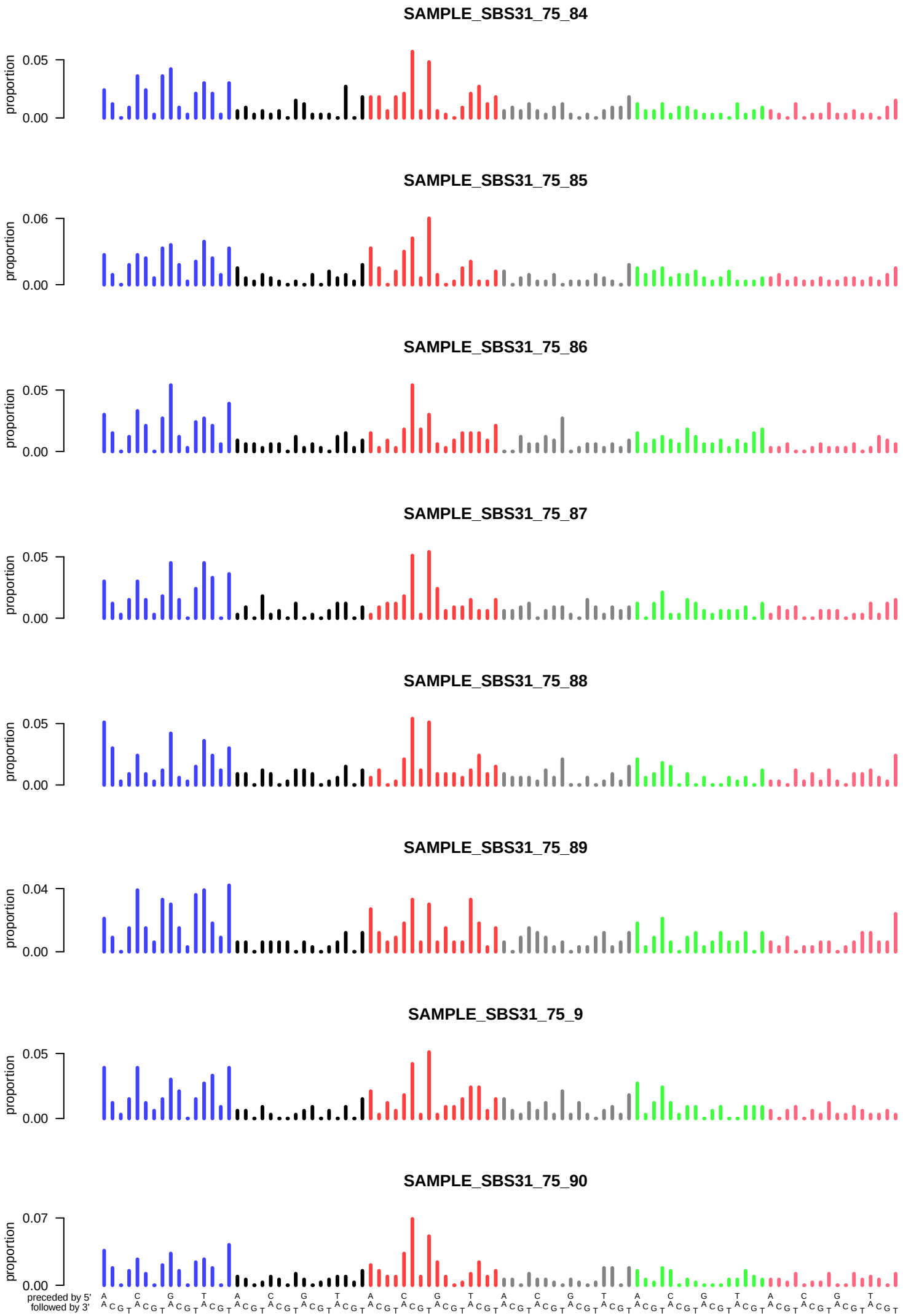
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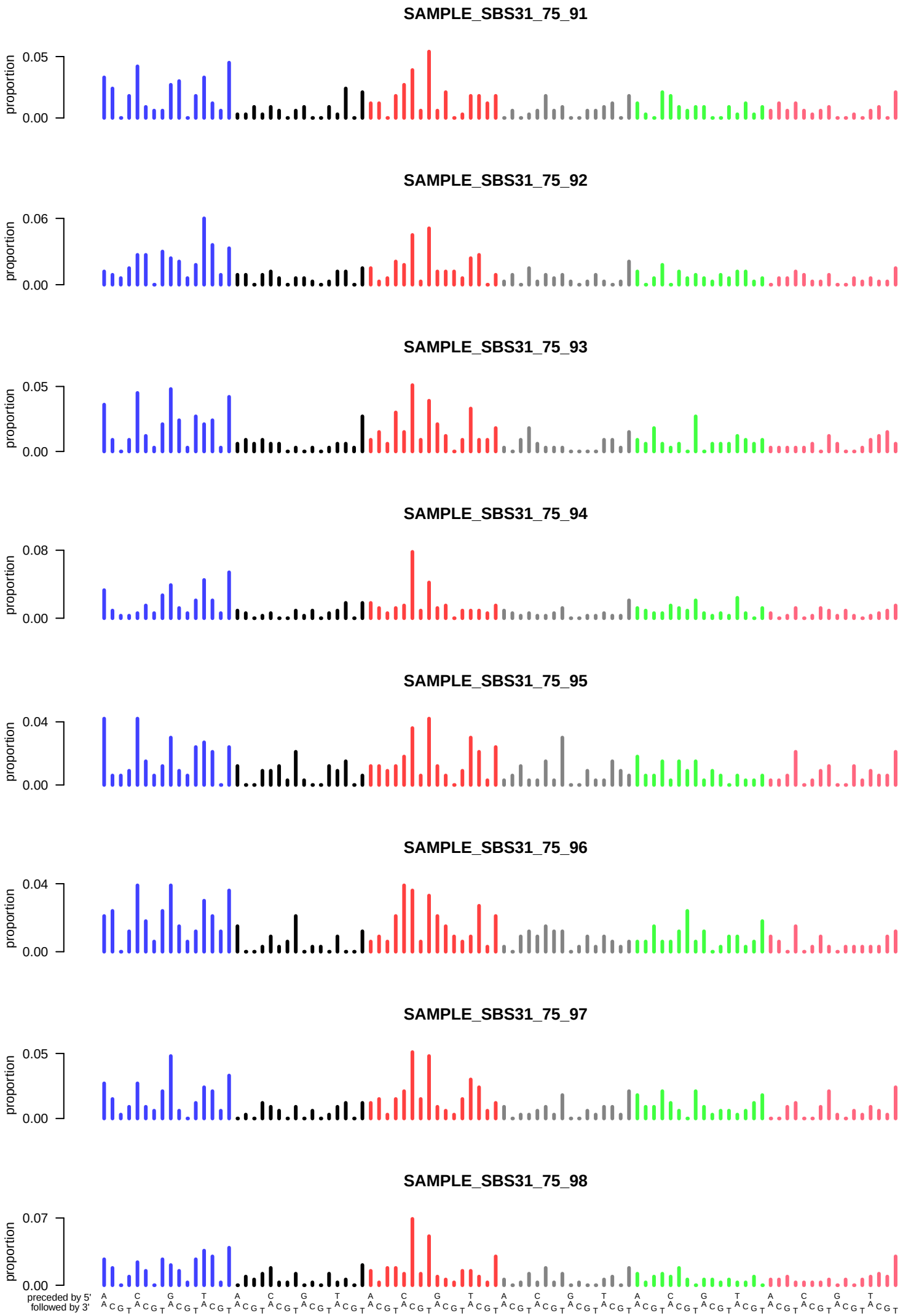
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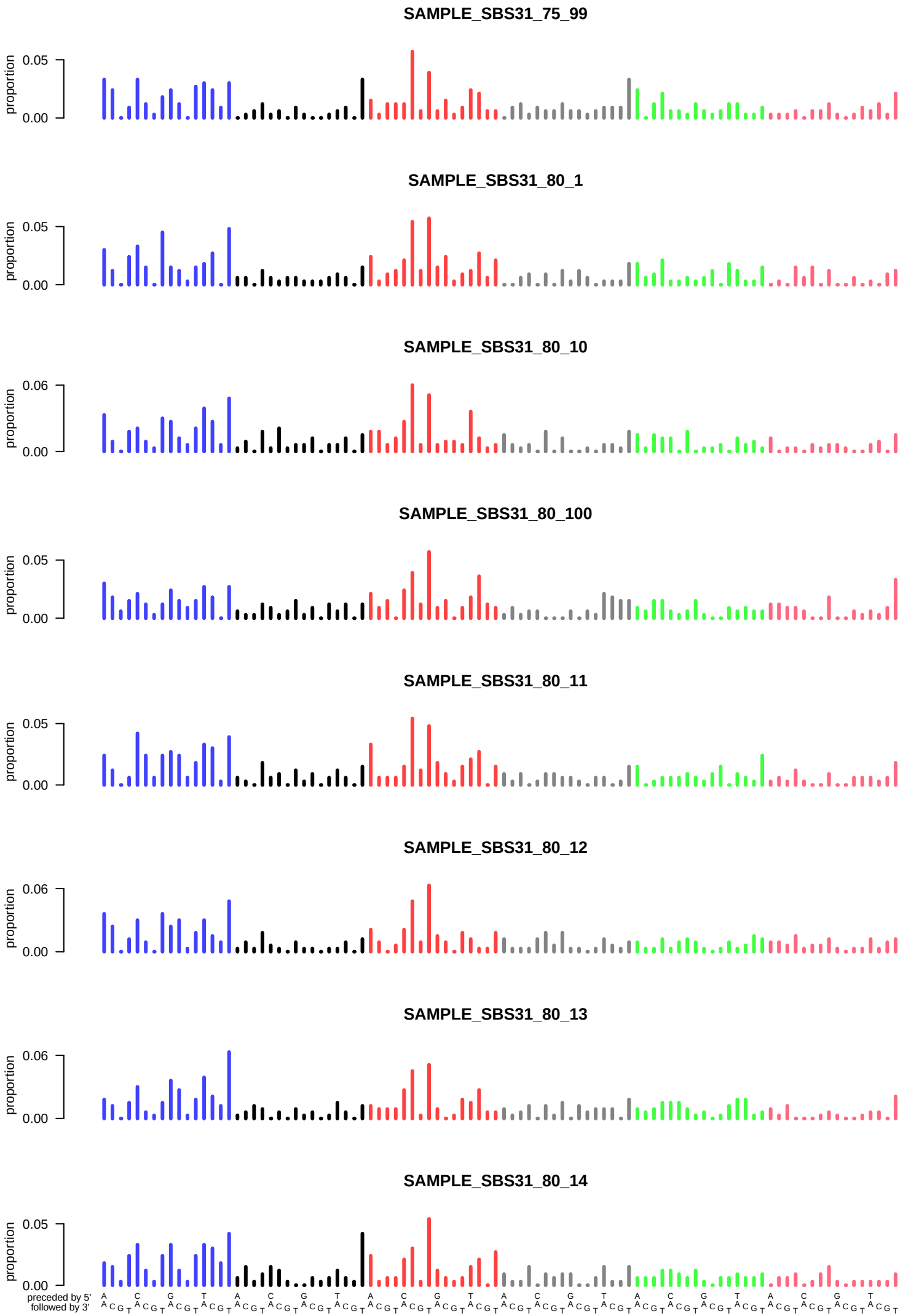
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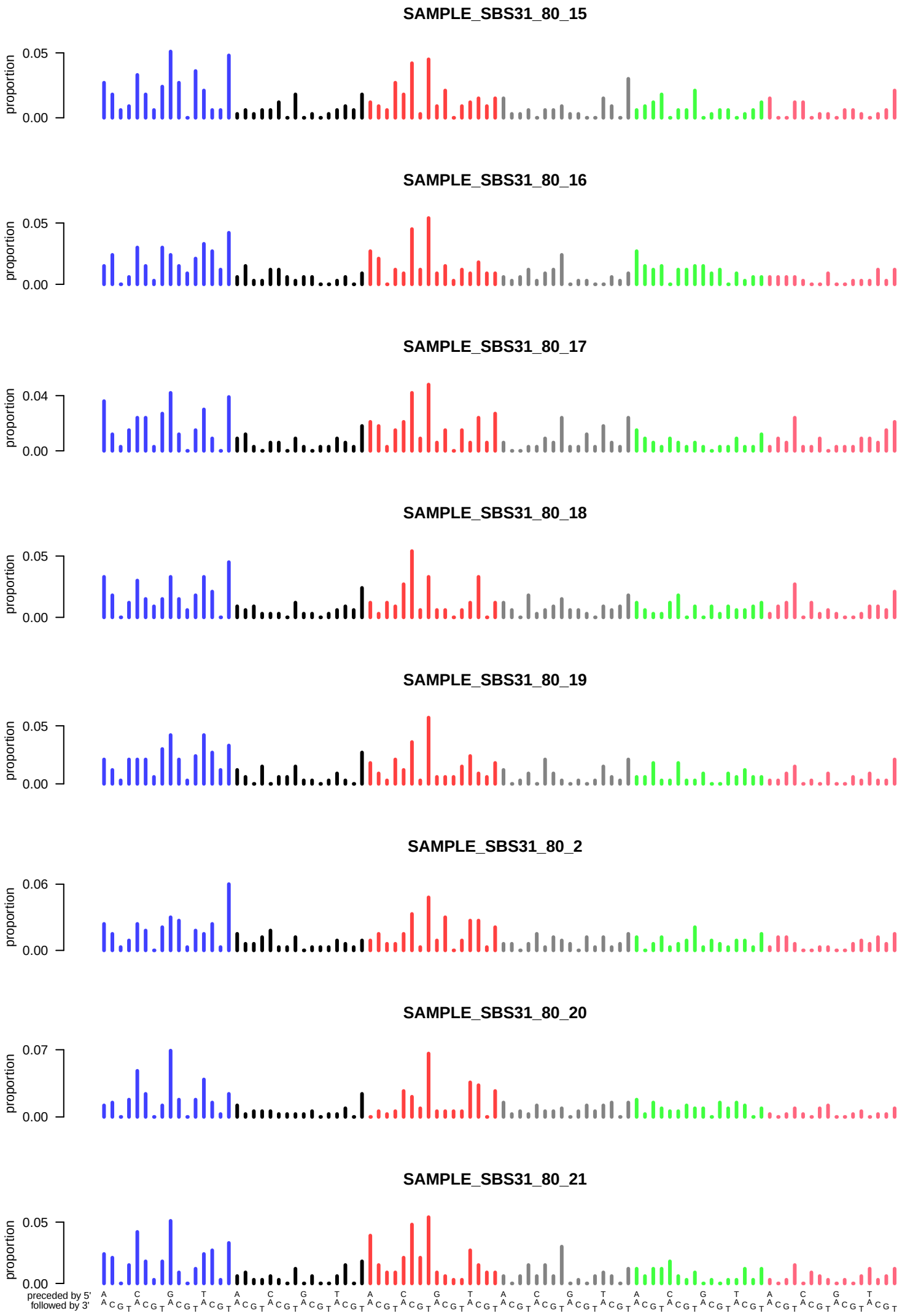
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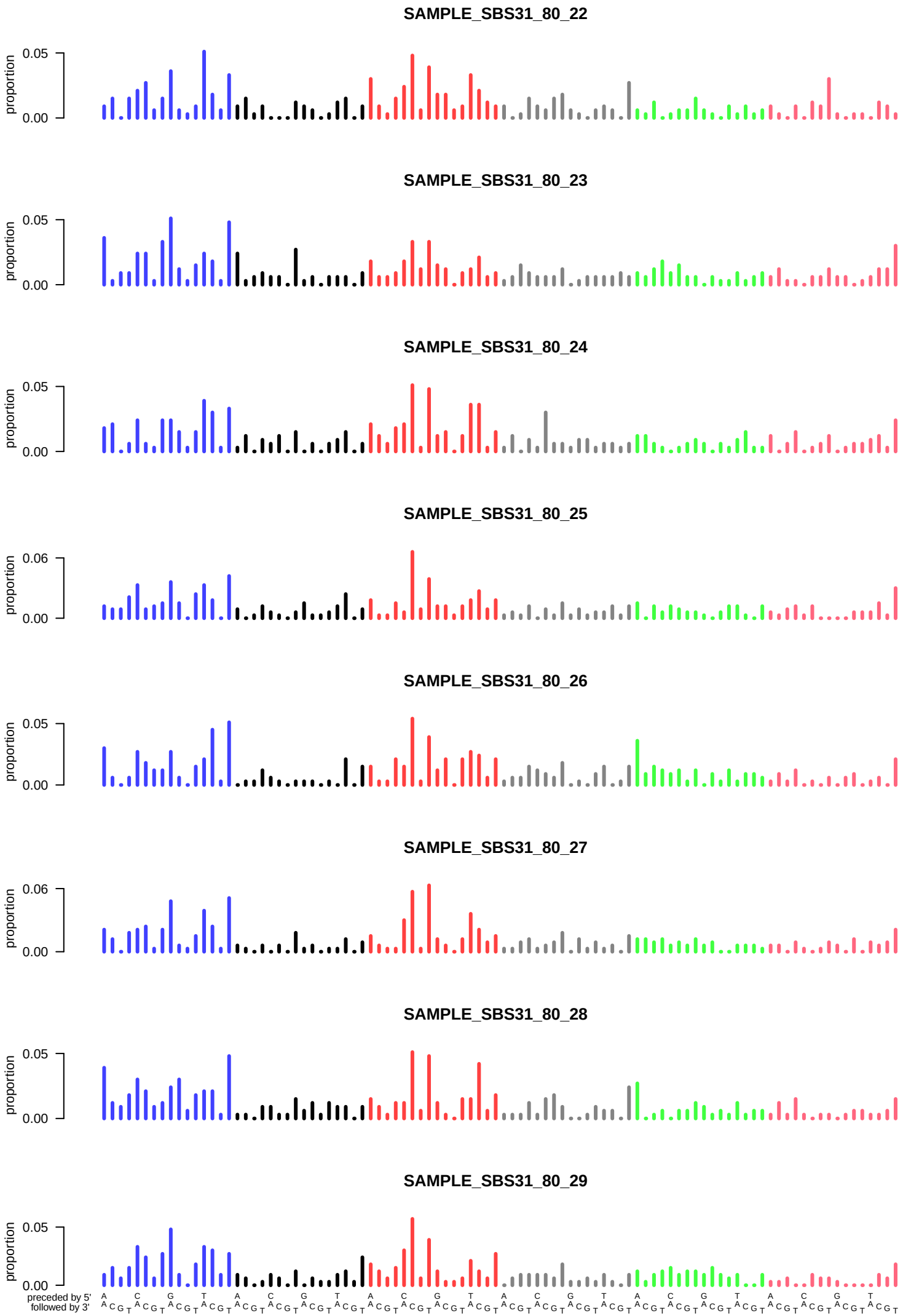
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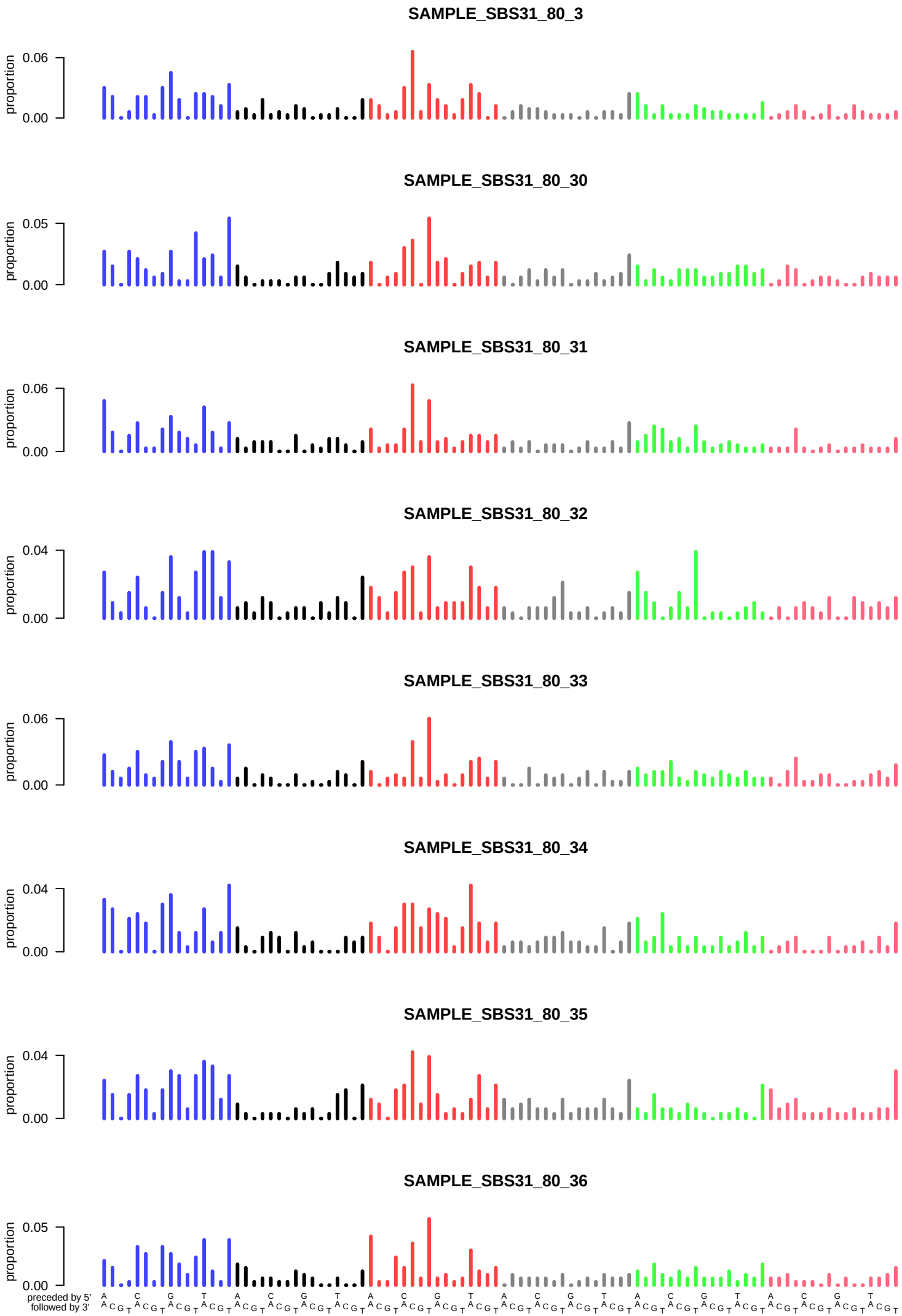
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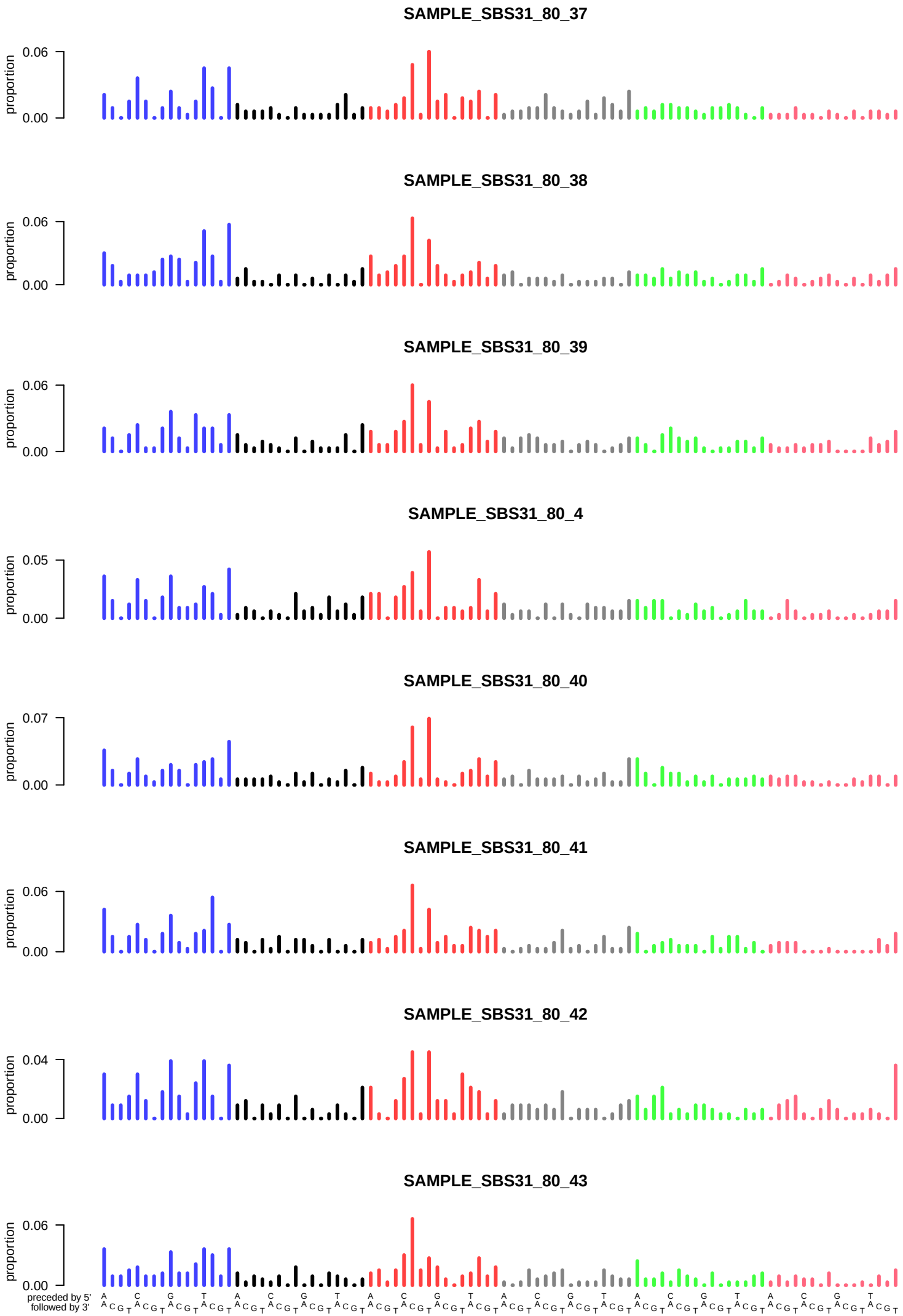
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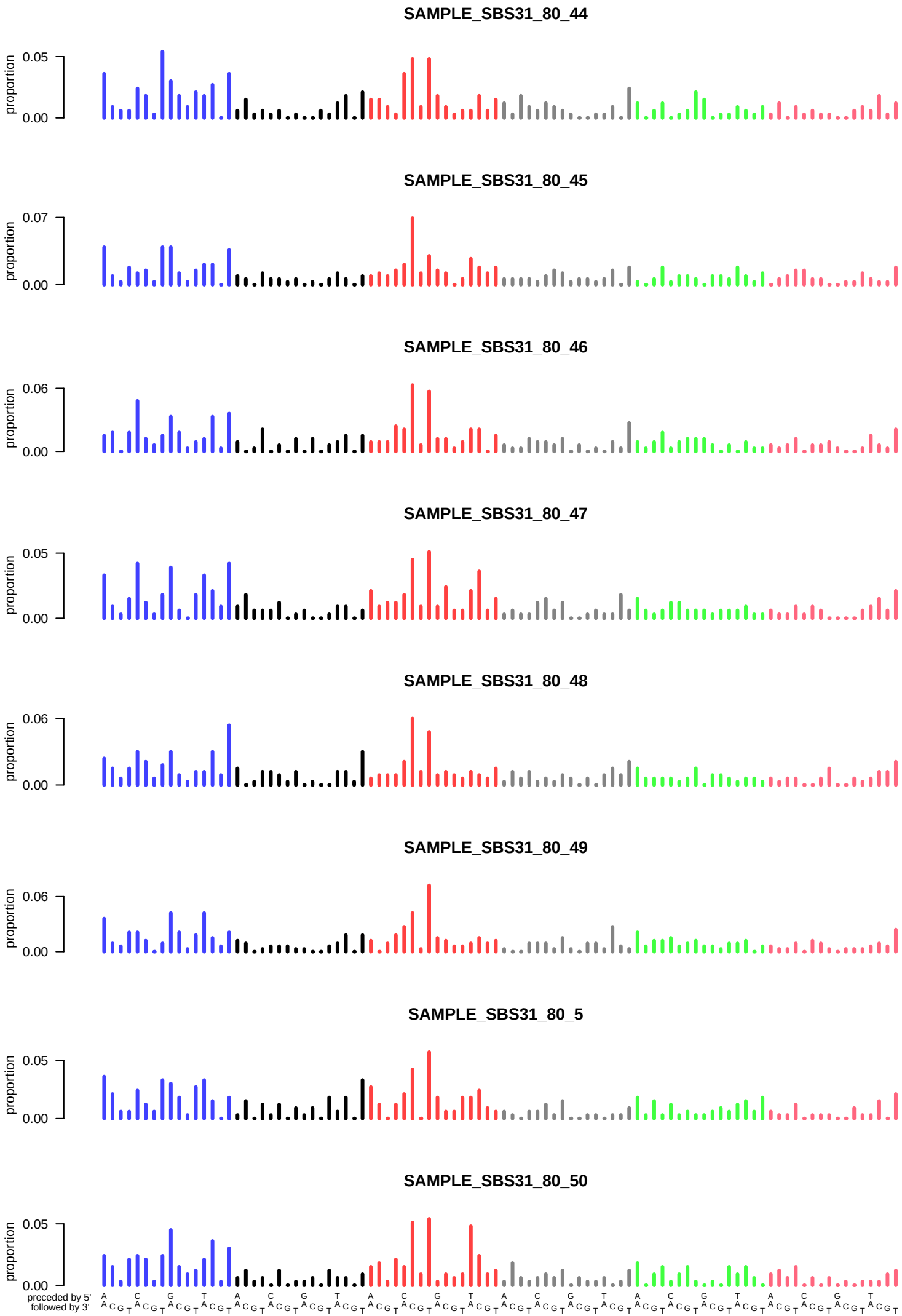
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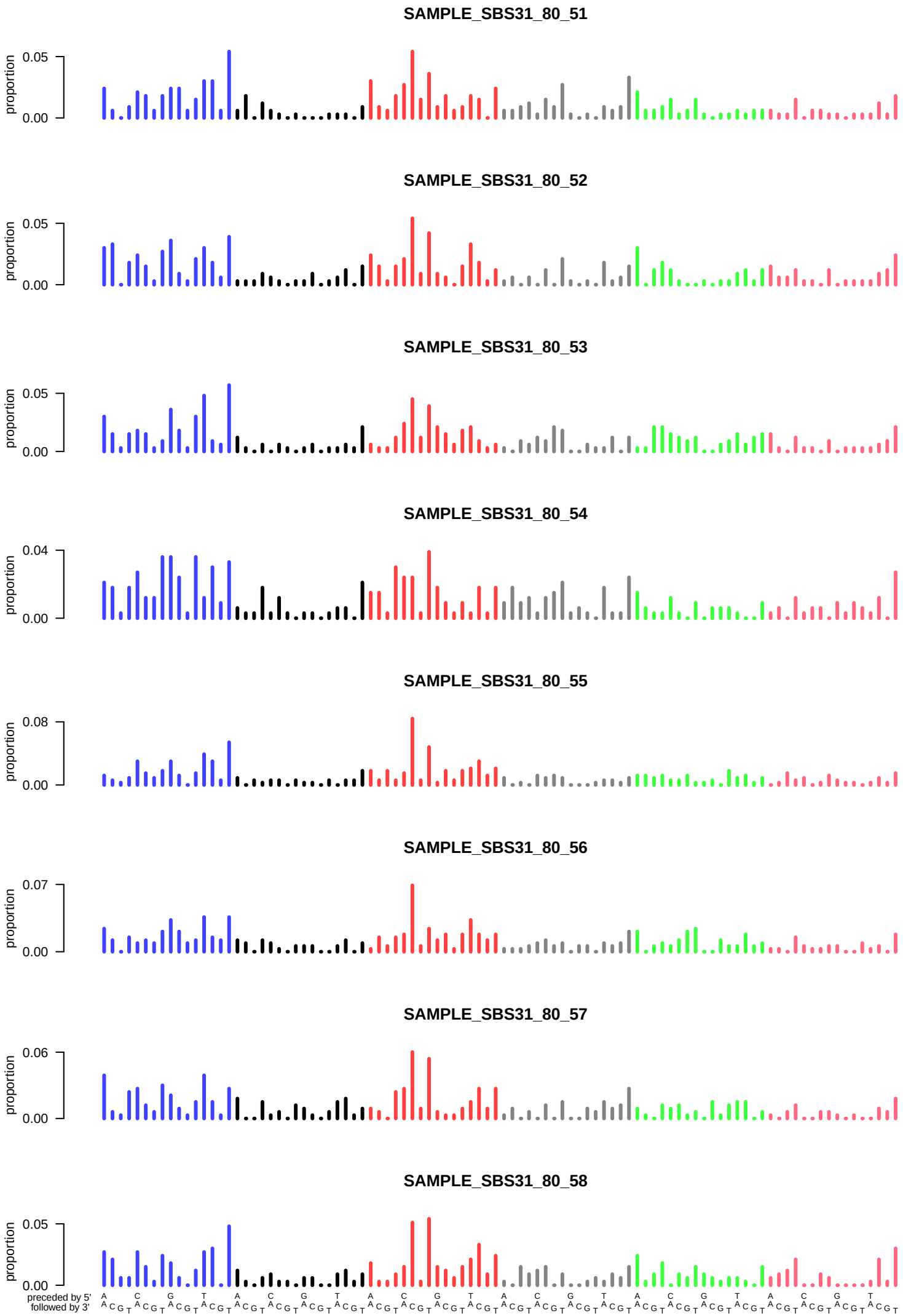
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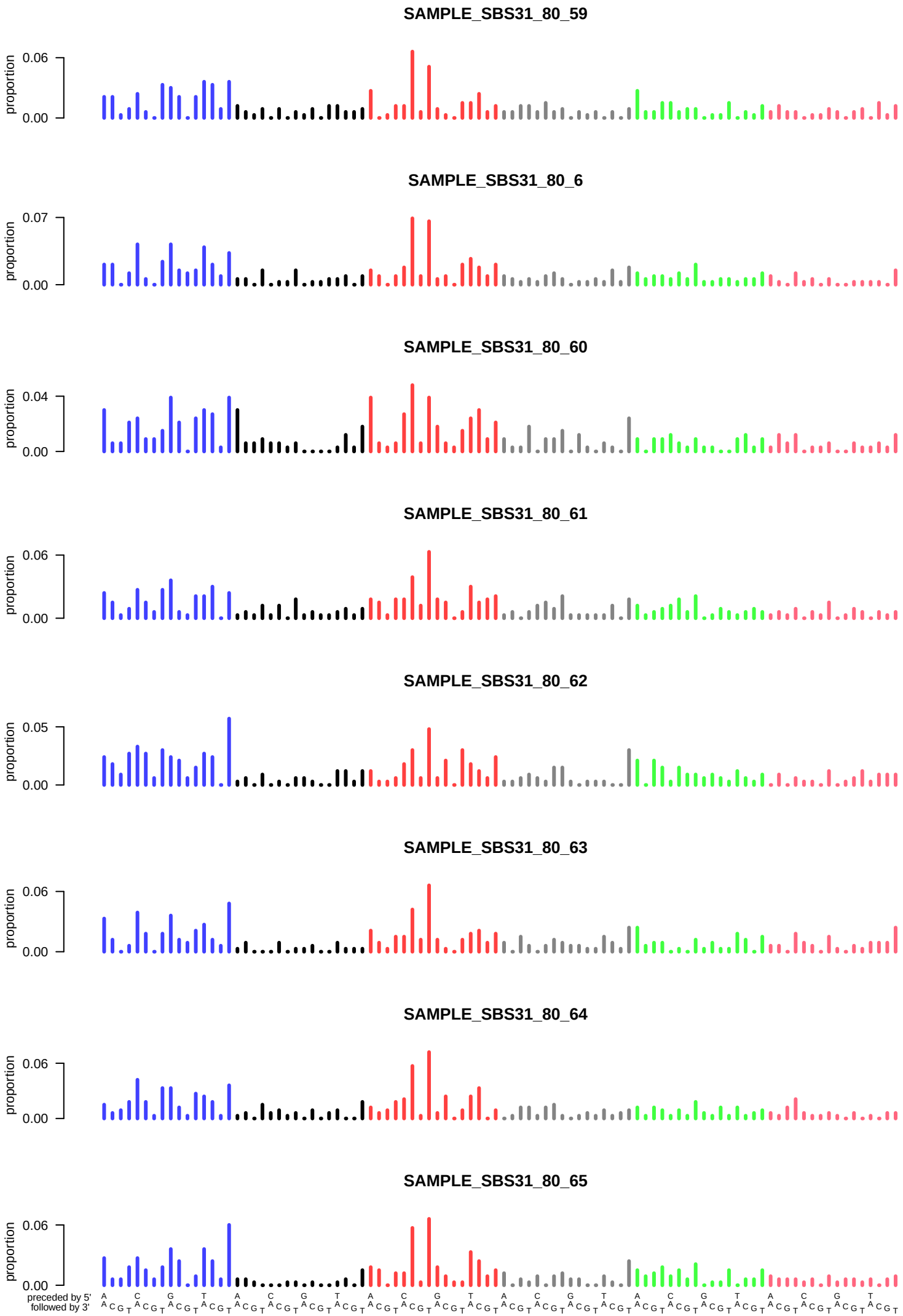
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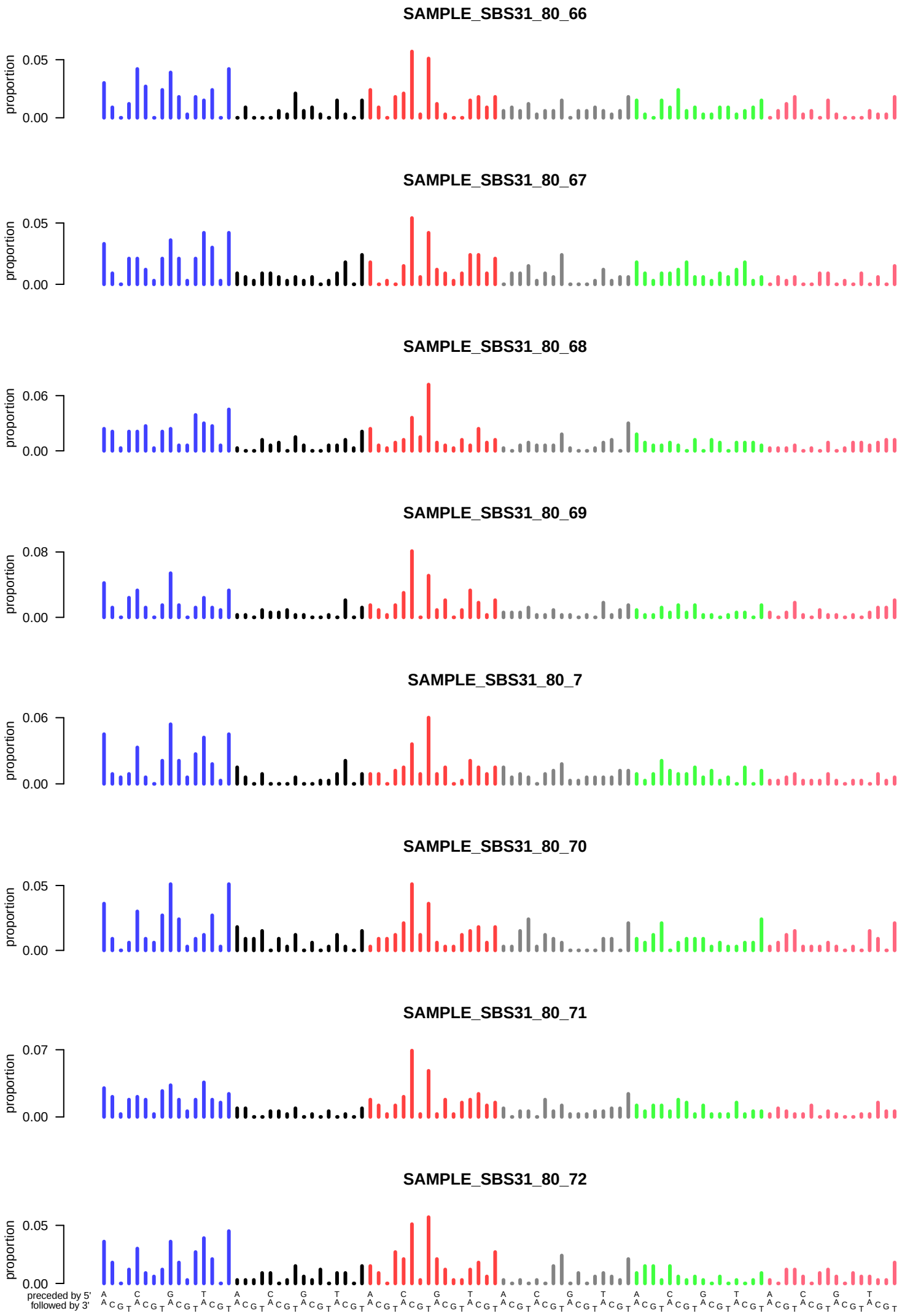
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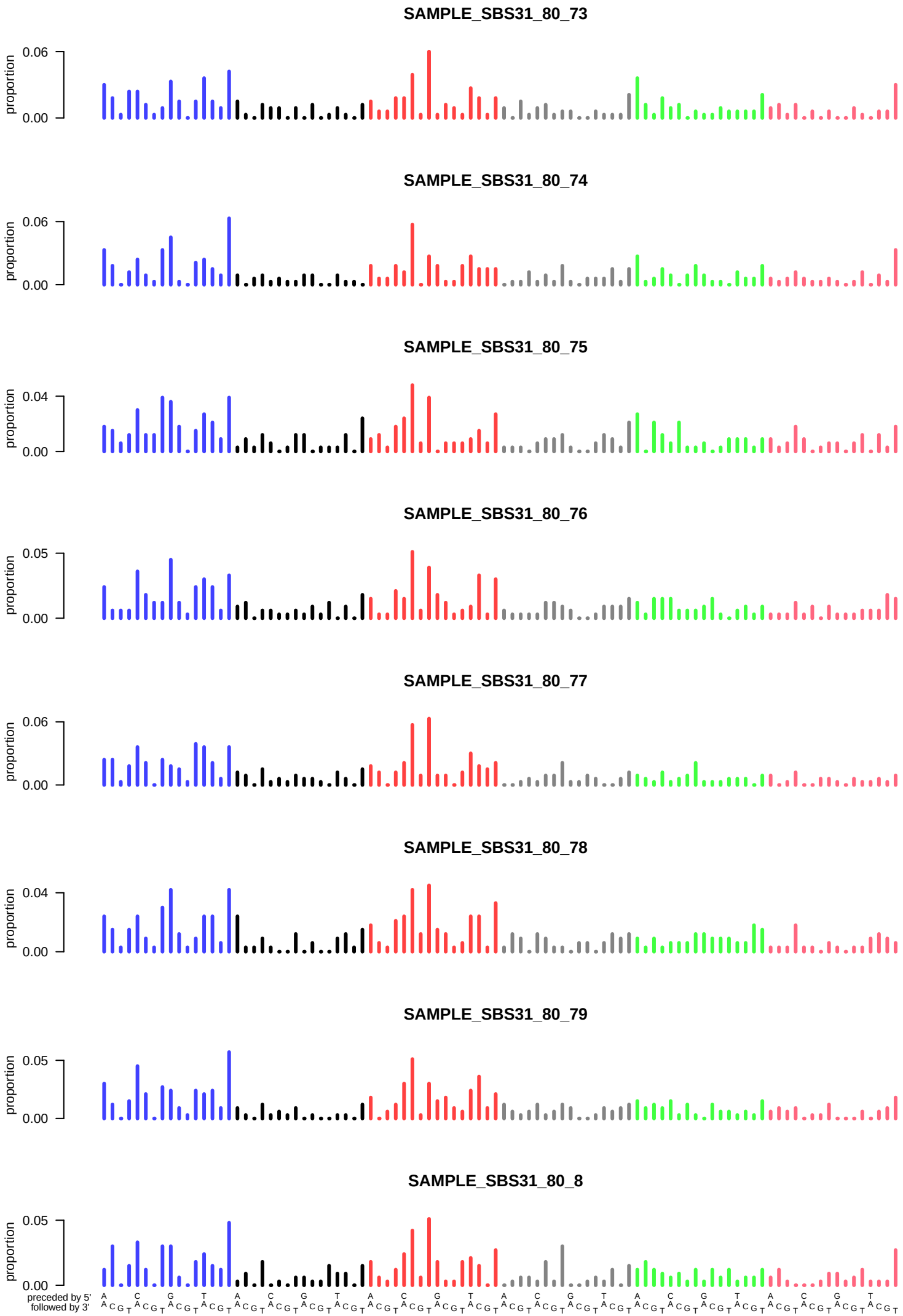
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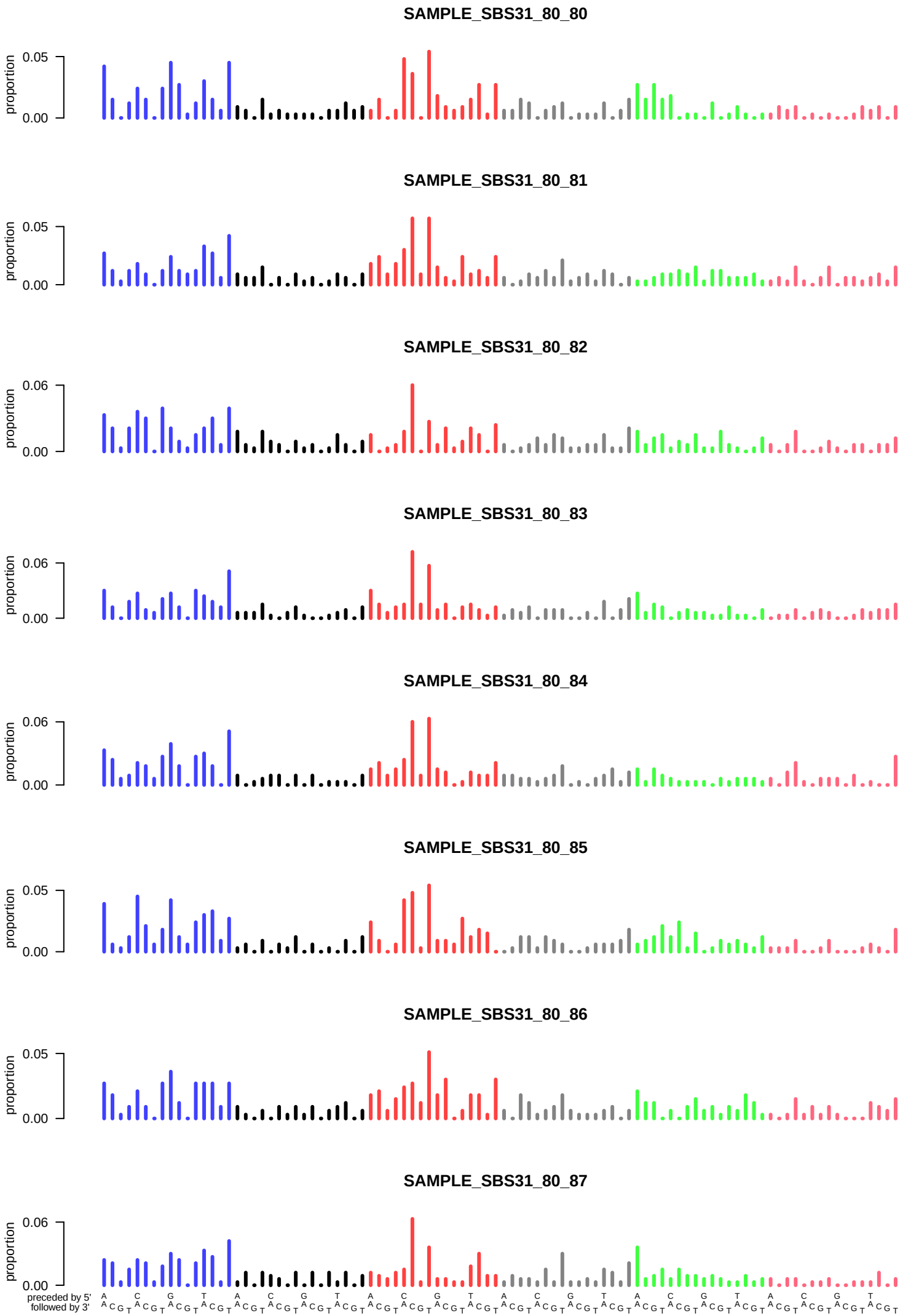
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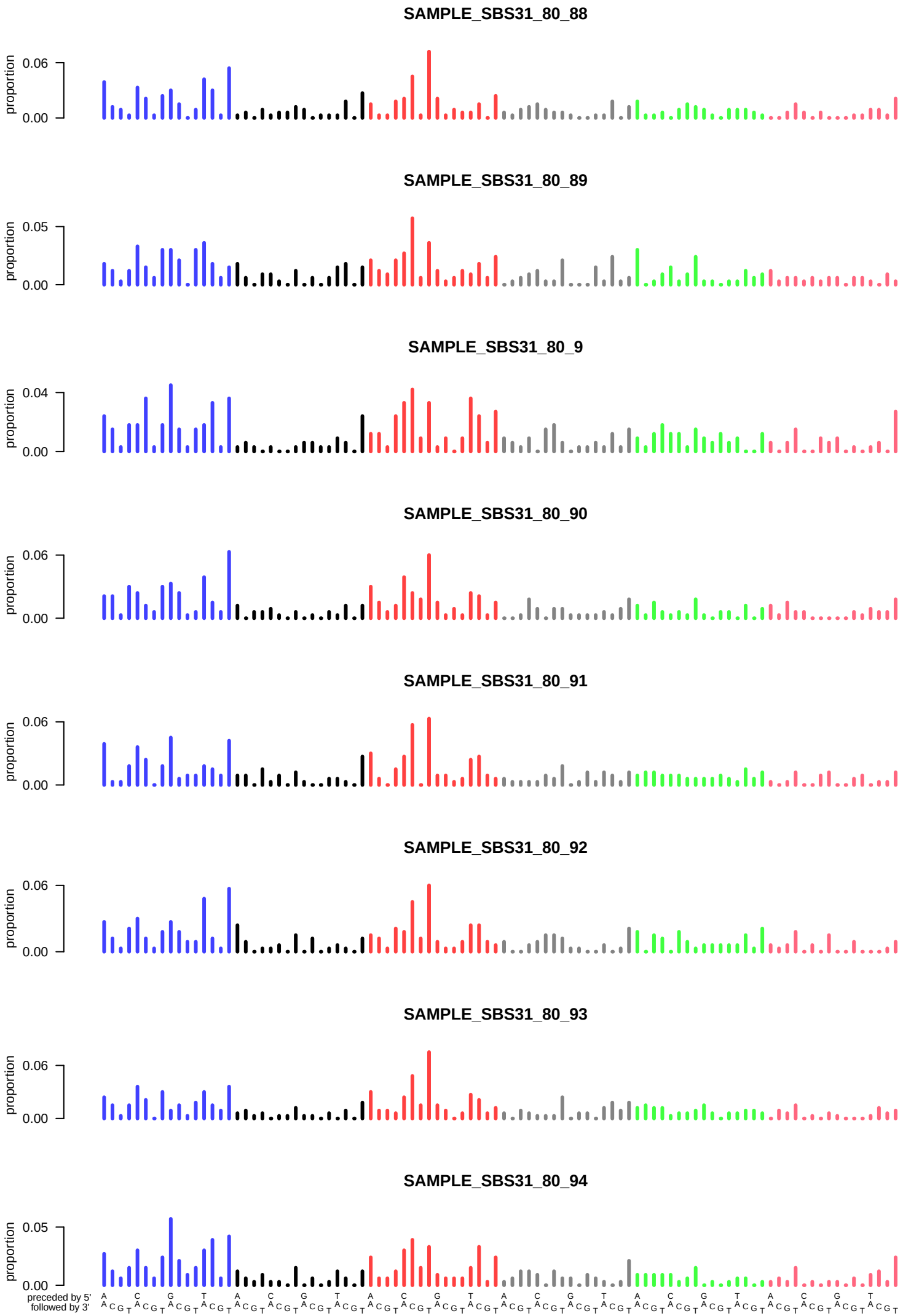
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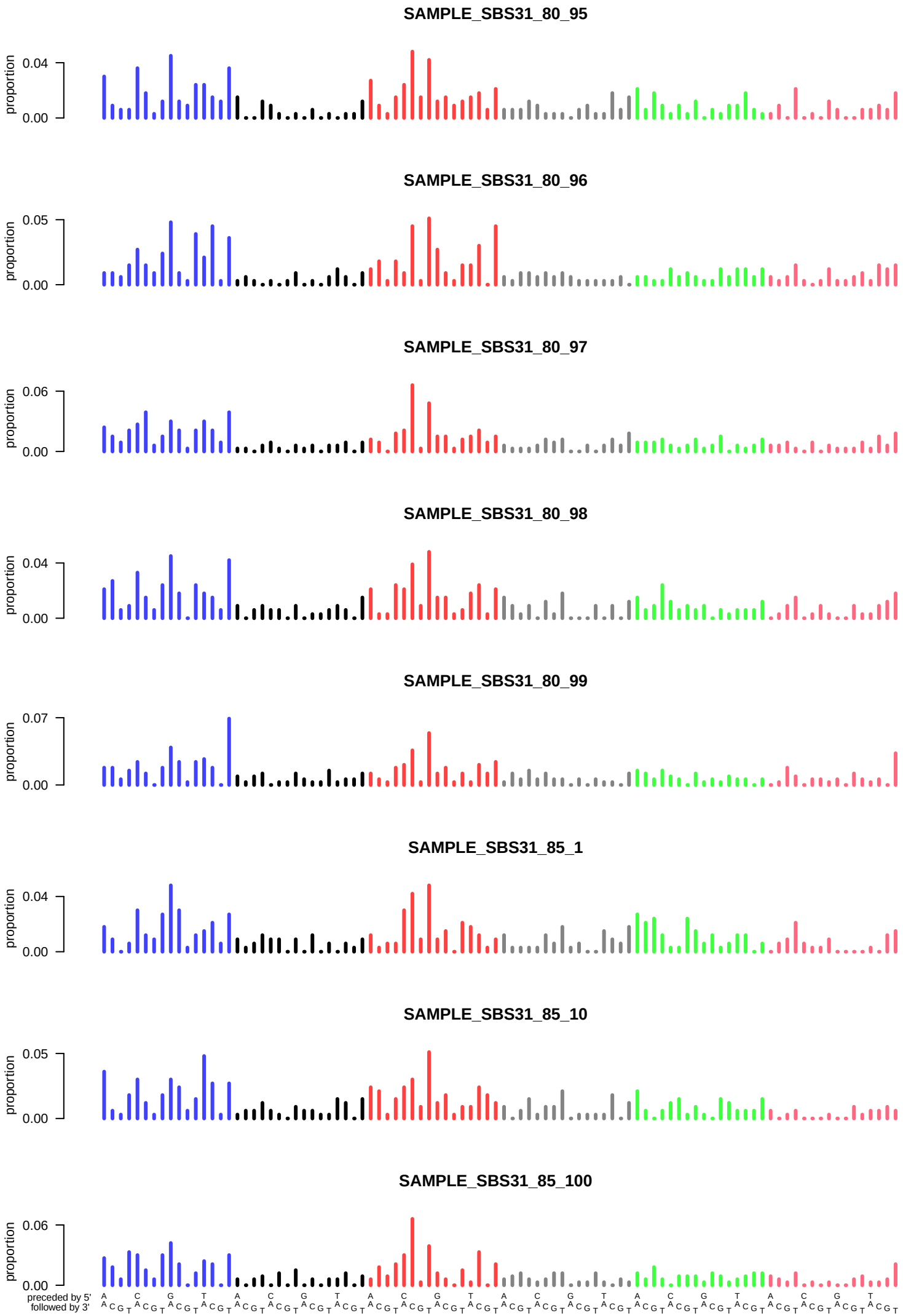
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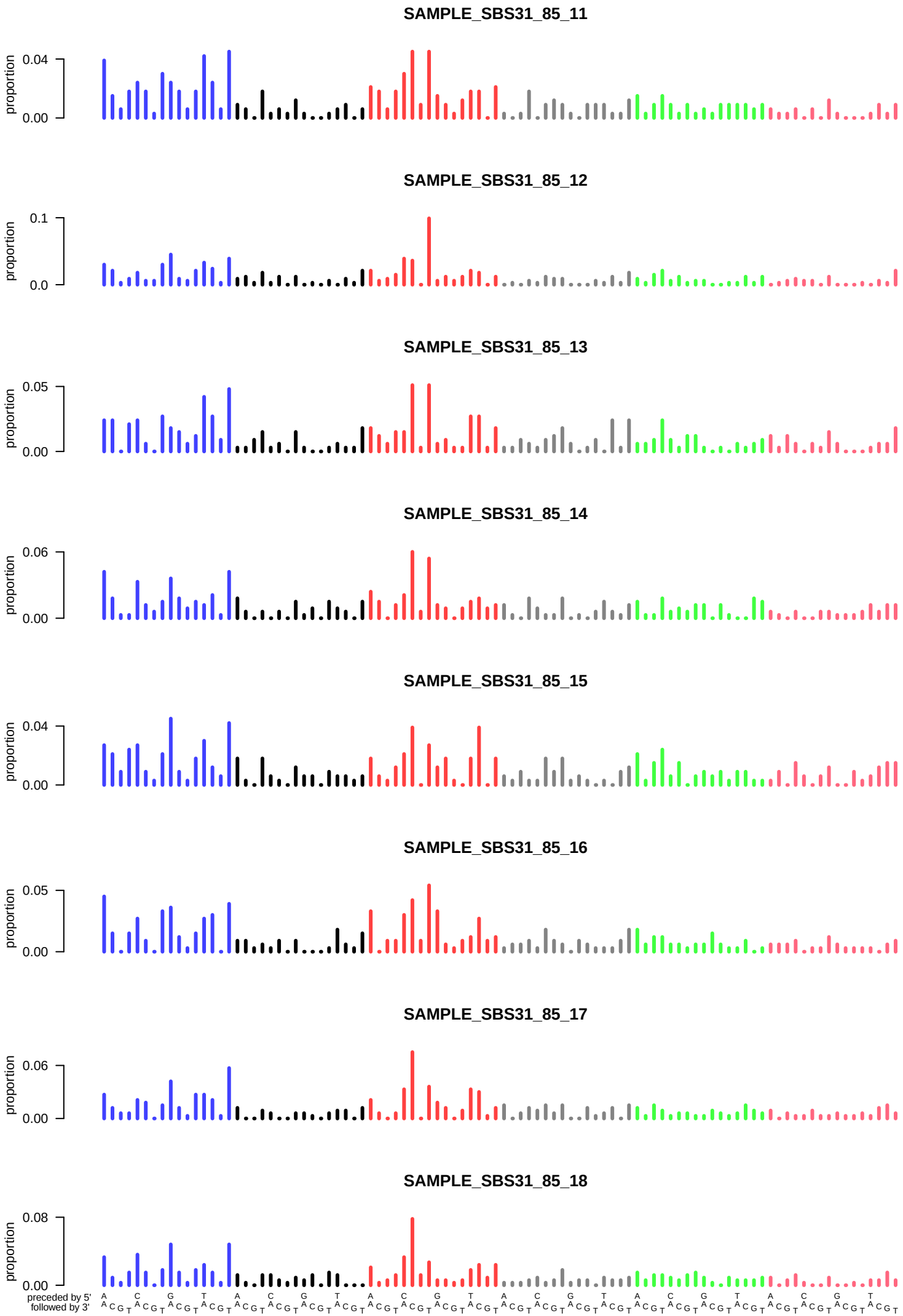
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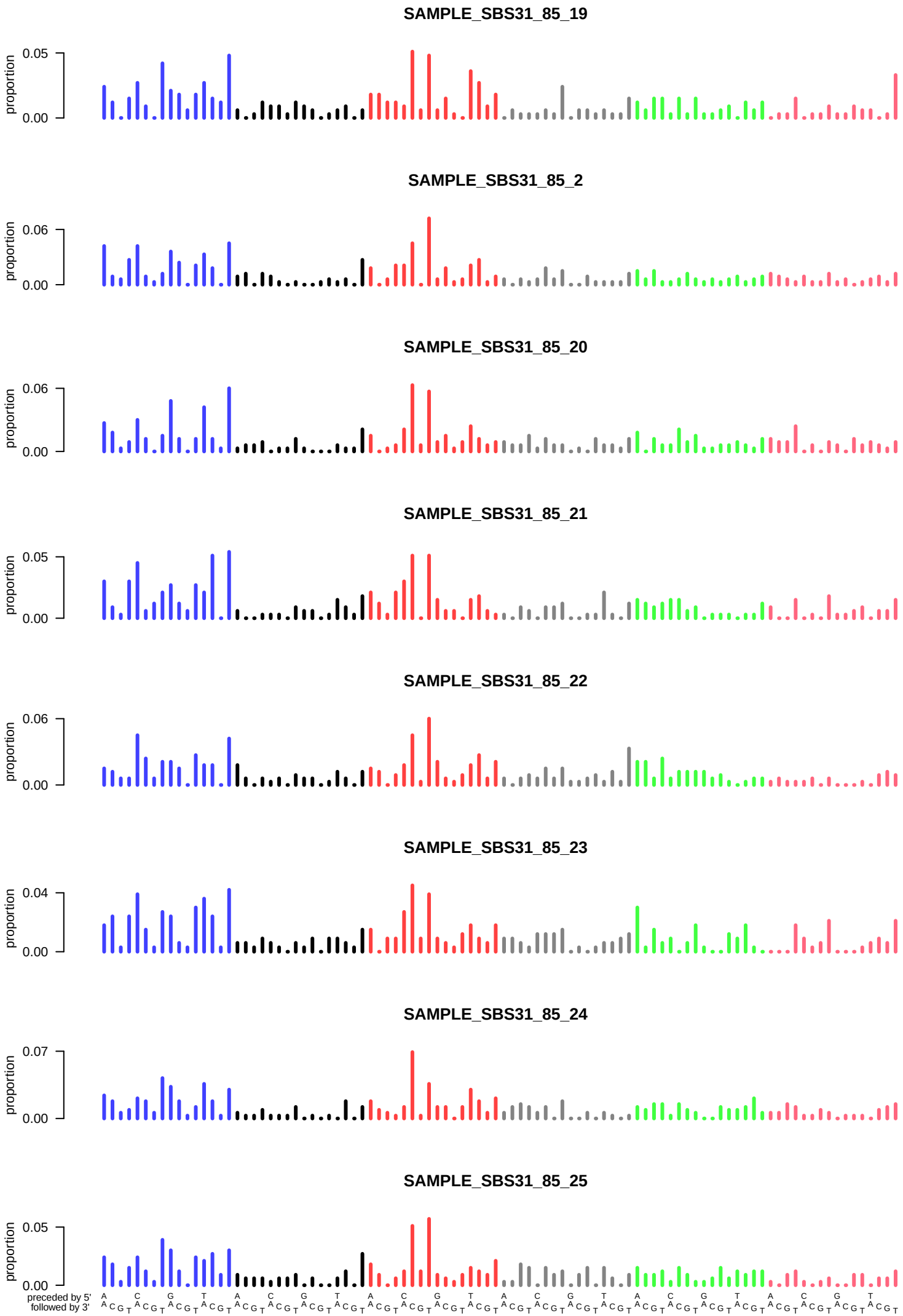
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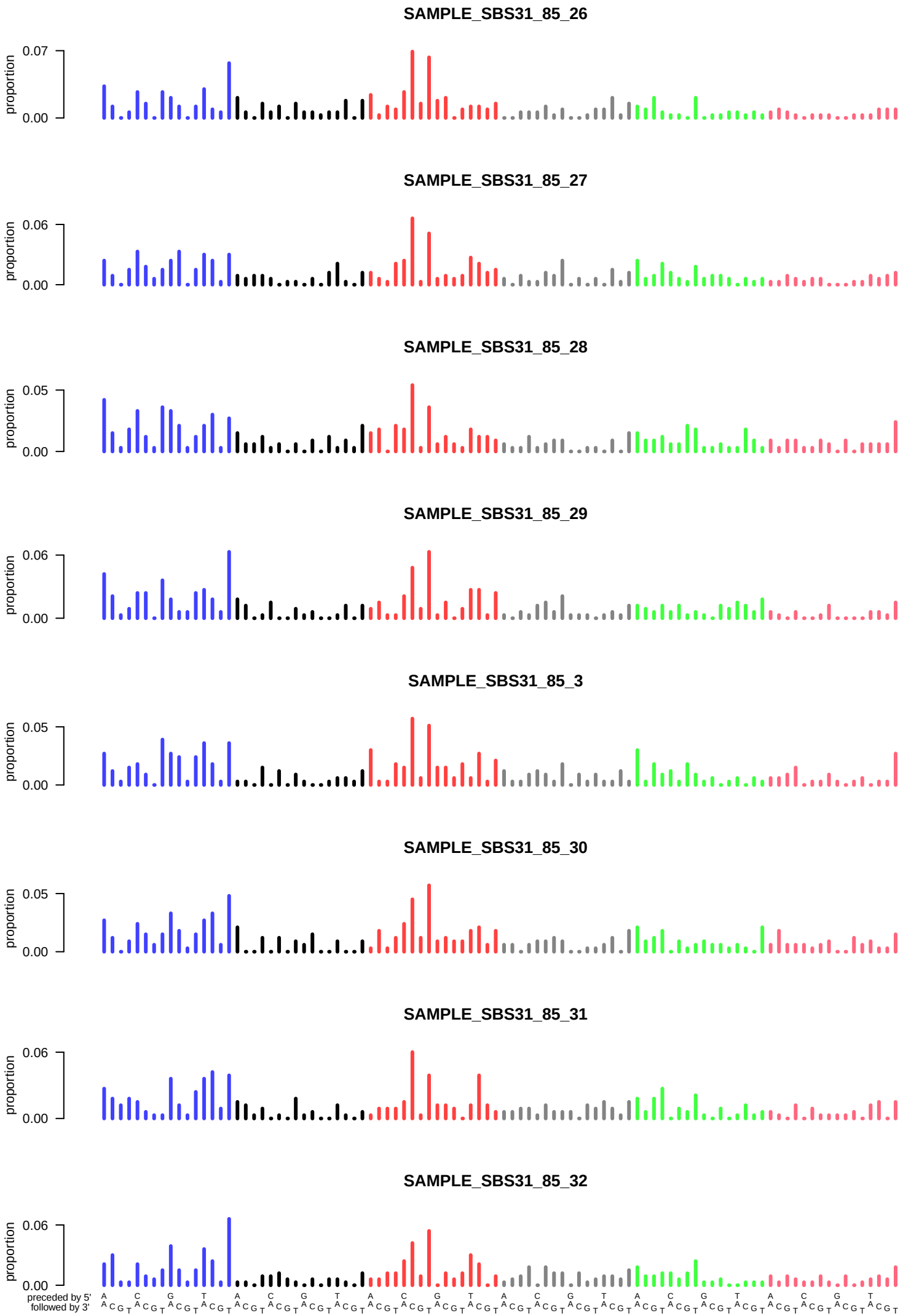
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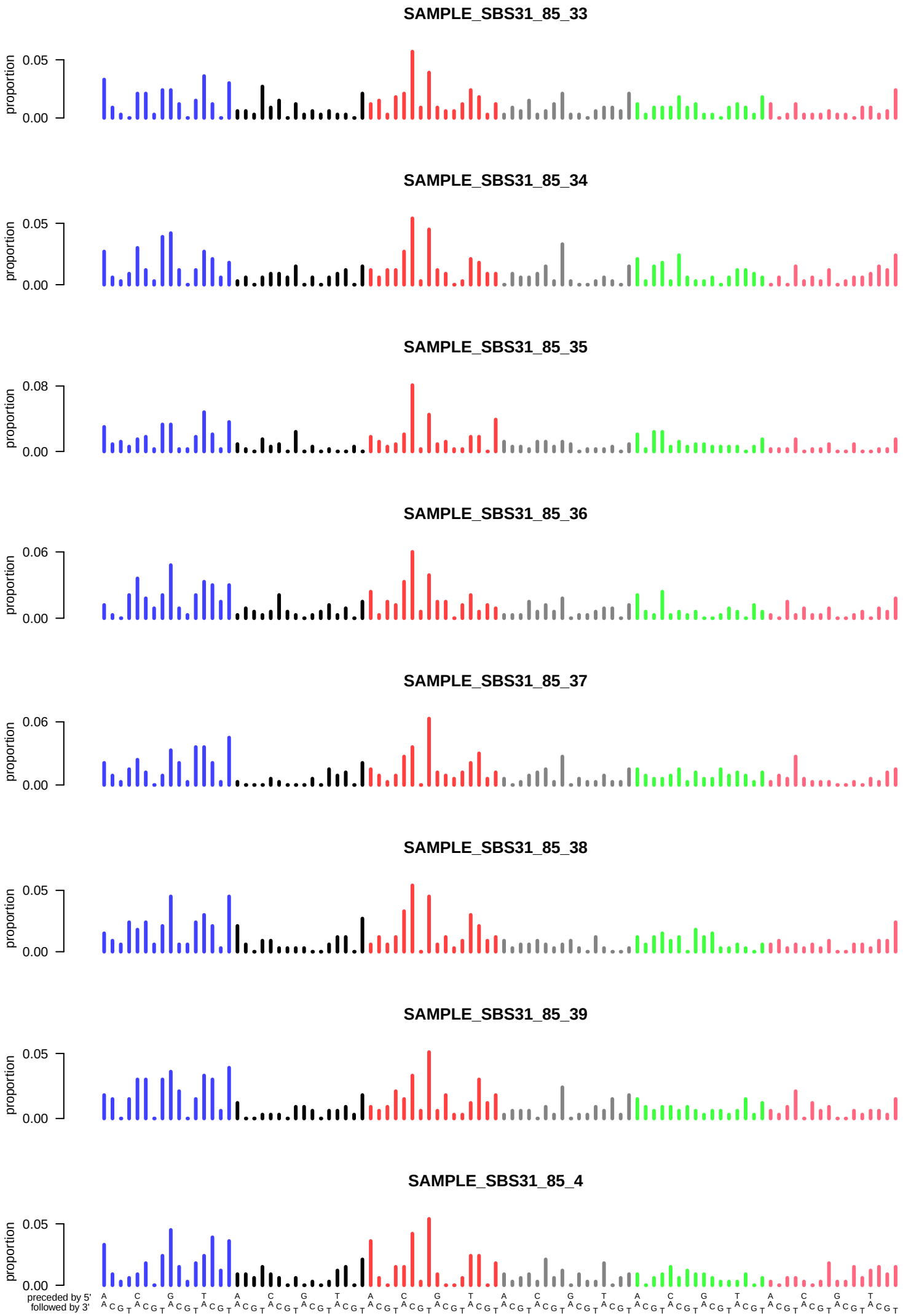
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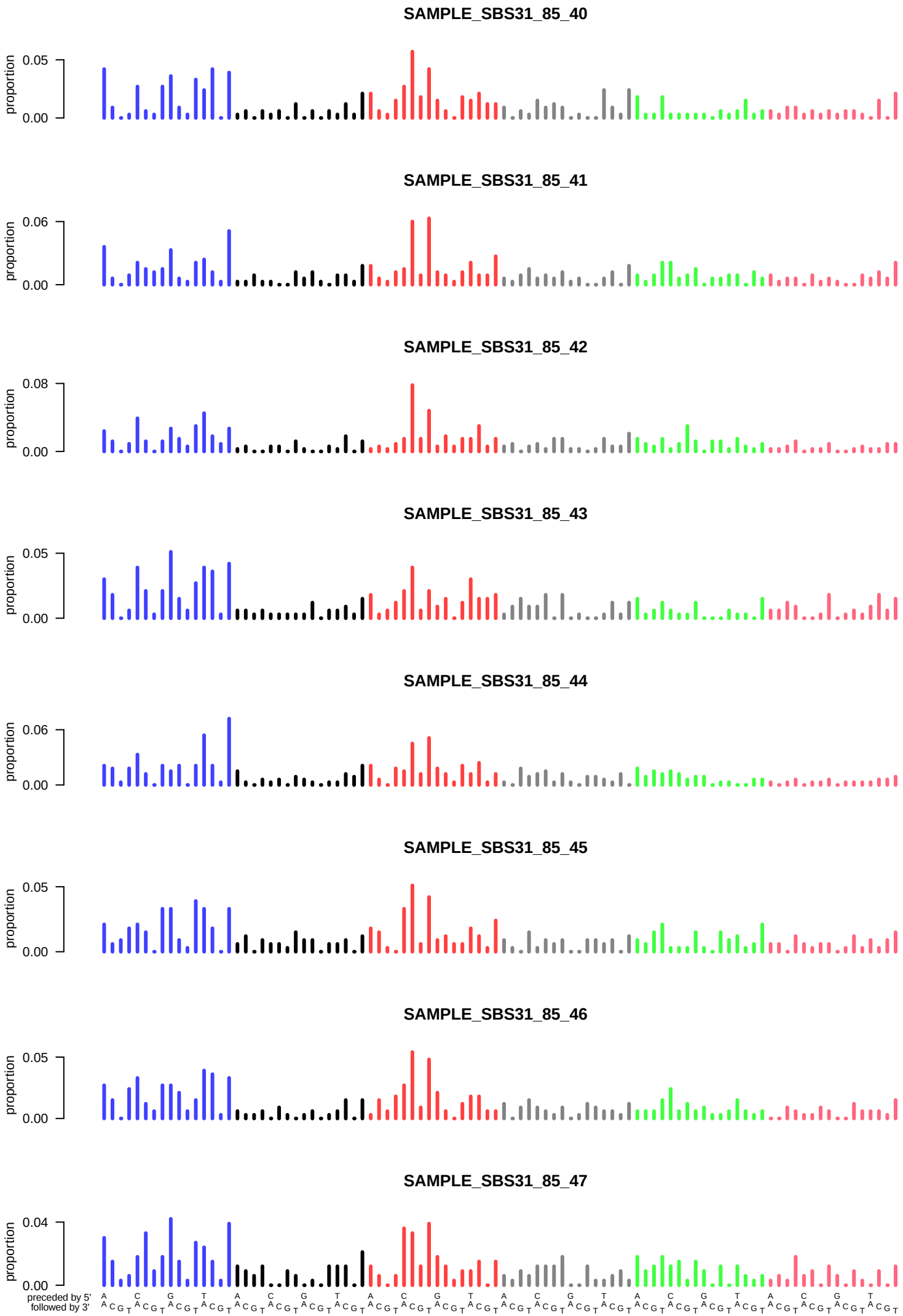
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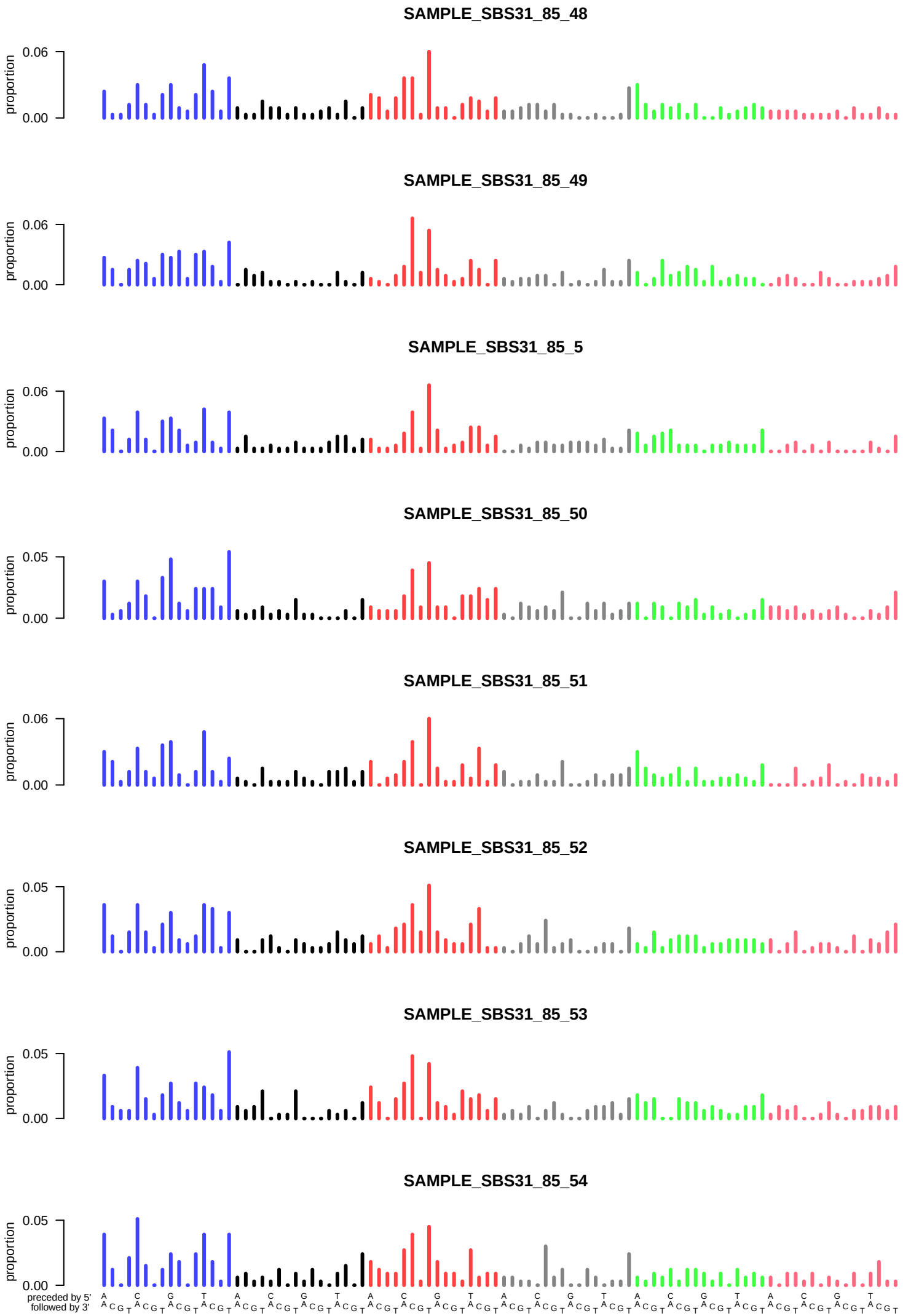
followed by 3'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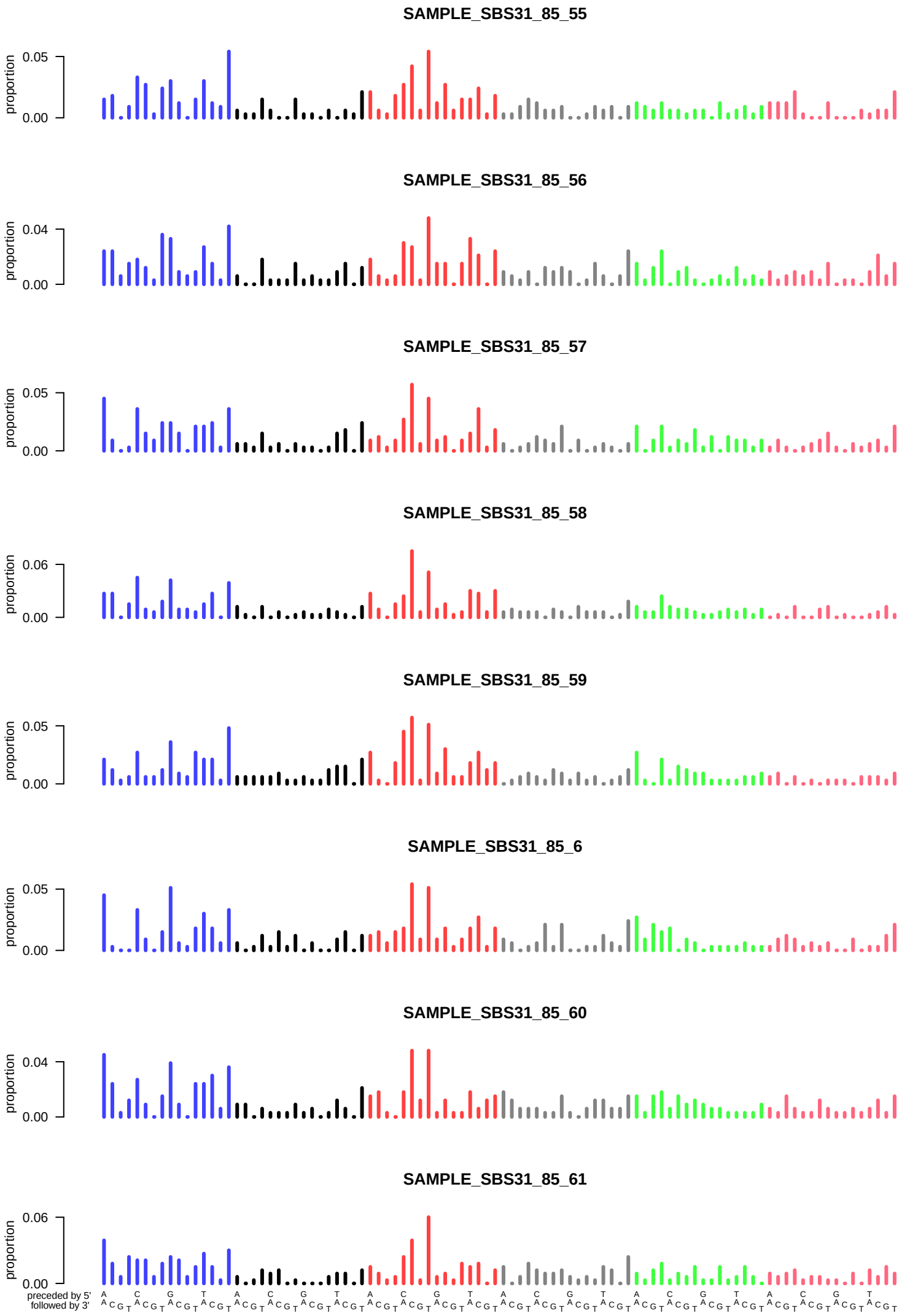
followed by 3'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followed by 3'
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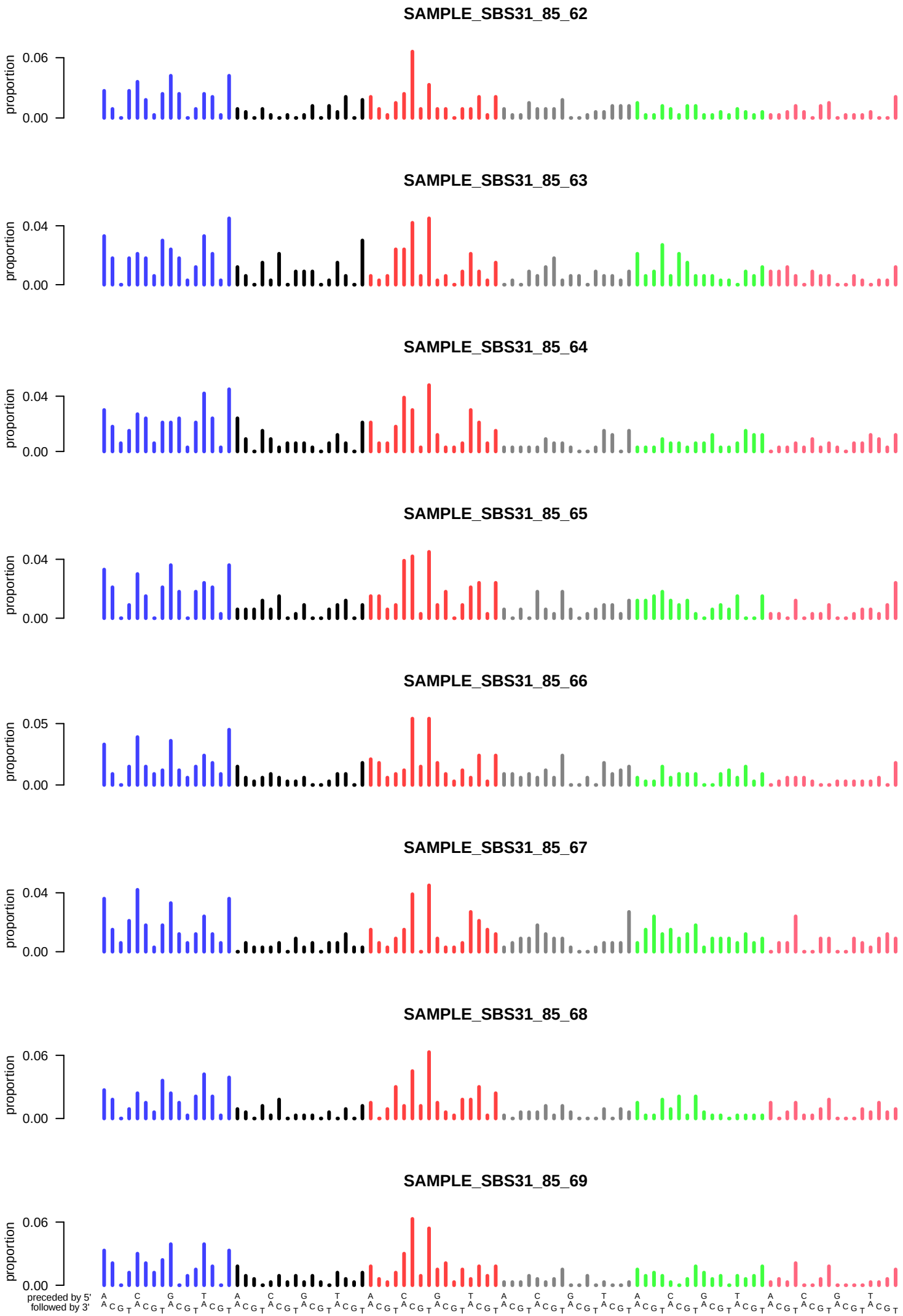
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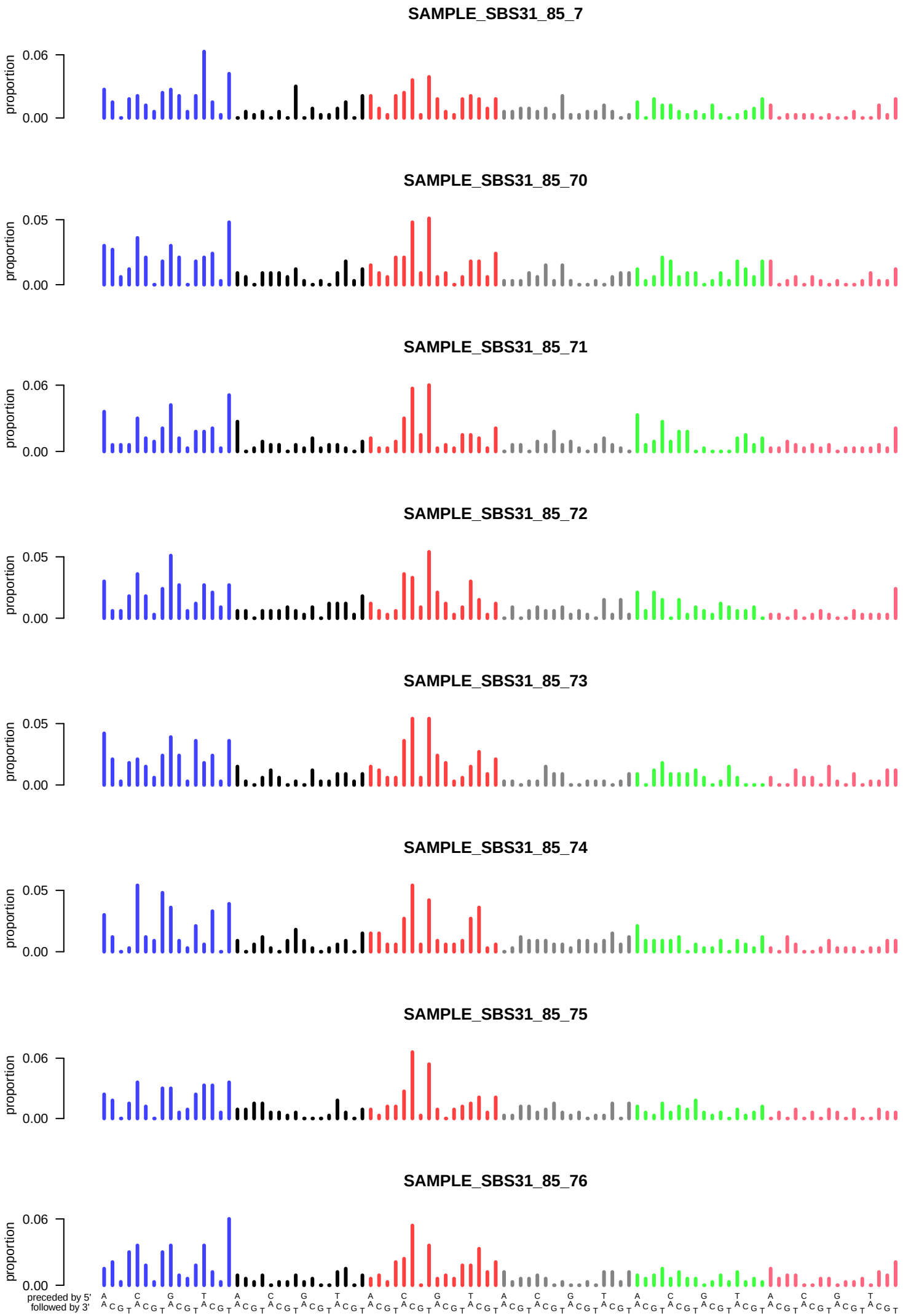
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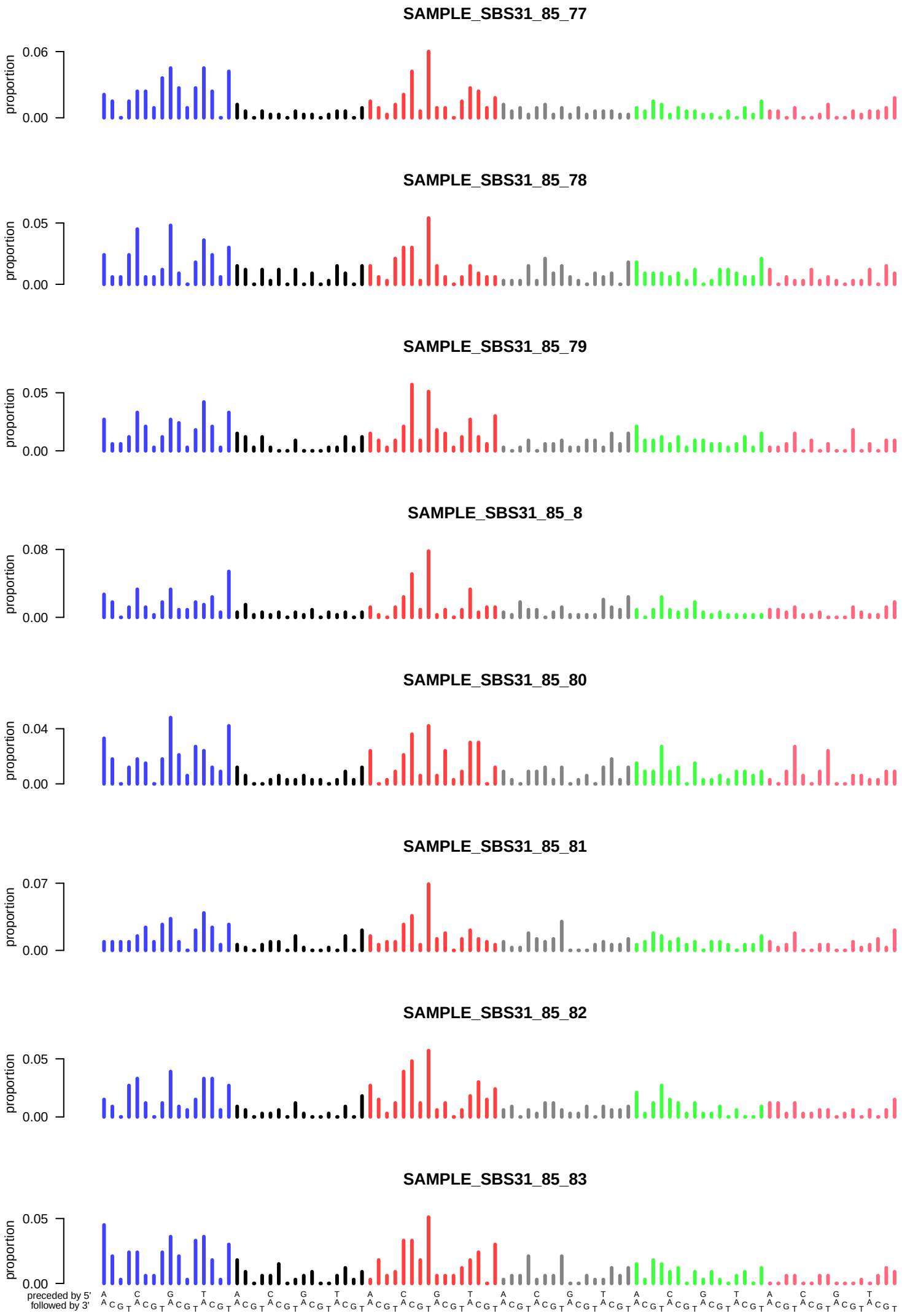
followed by 3'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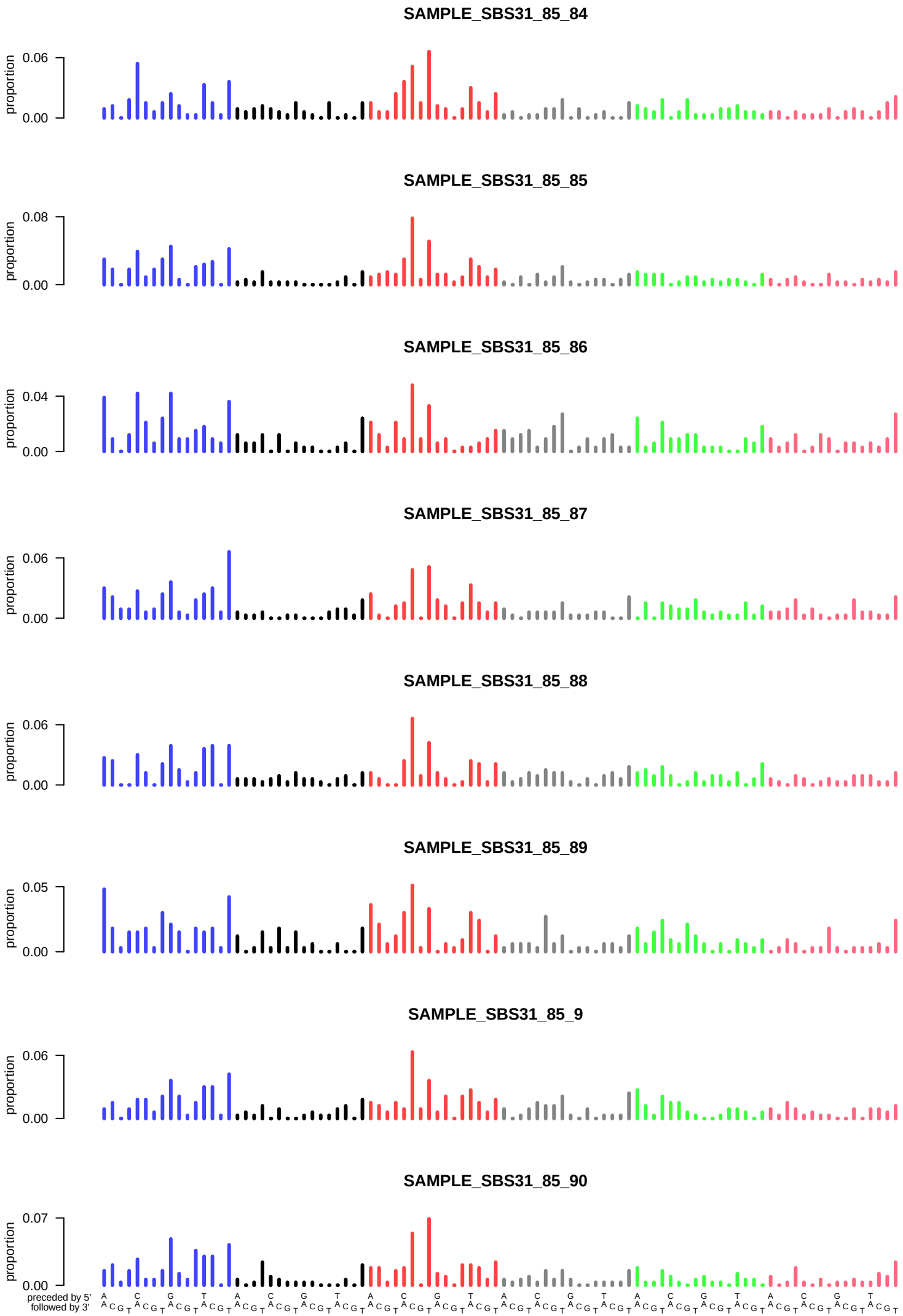
followed by 3'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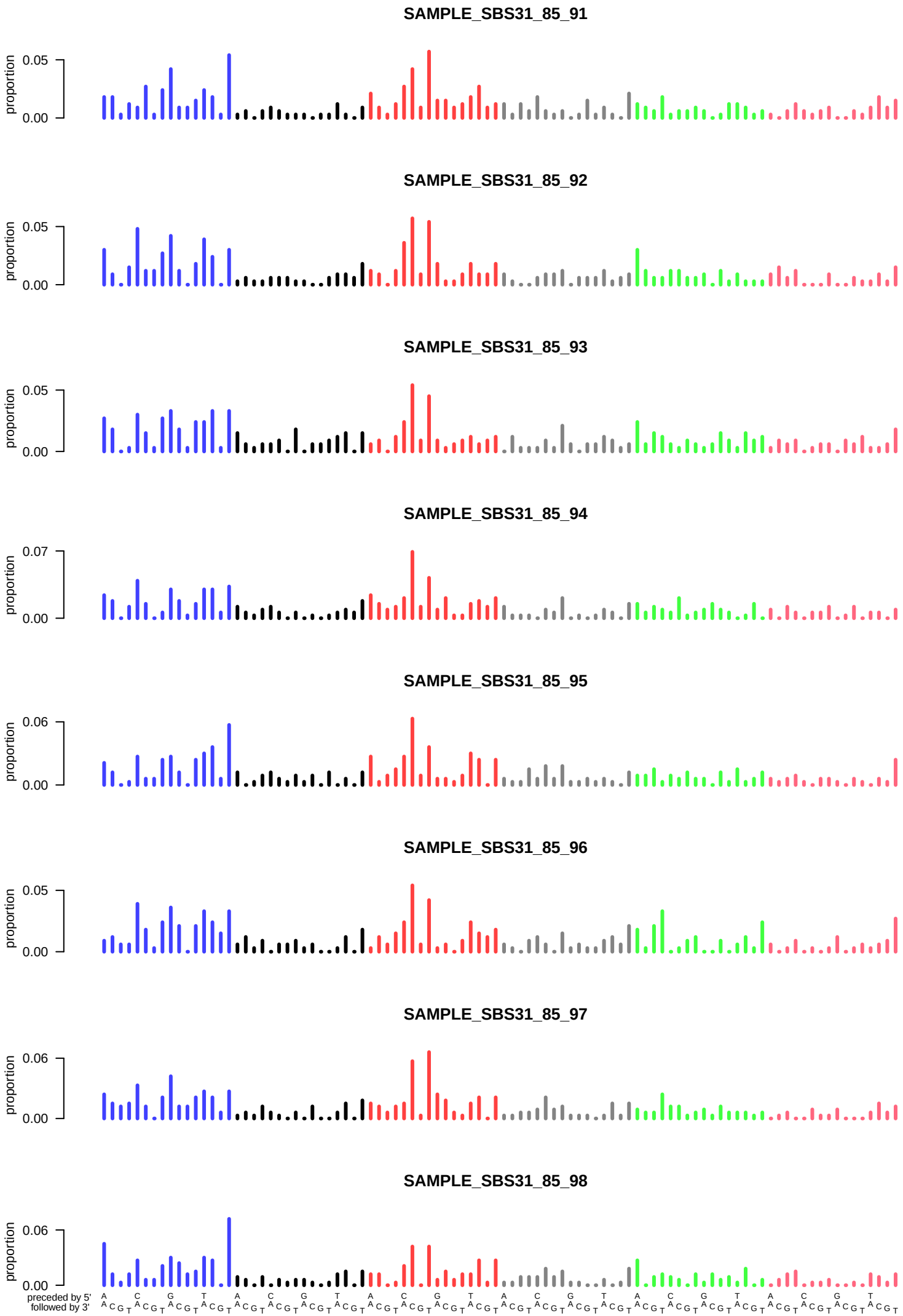
followed by 3'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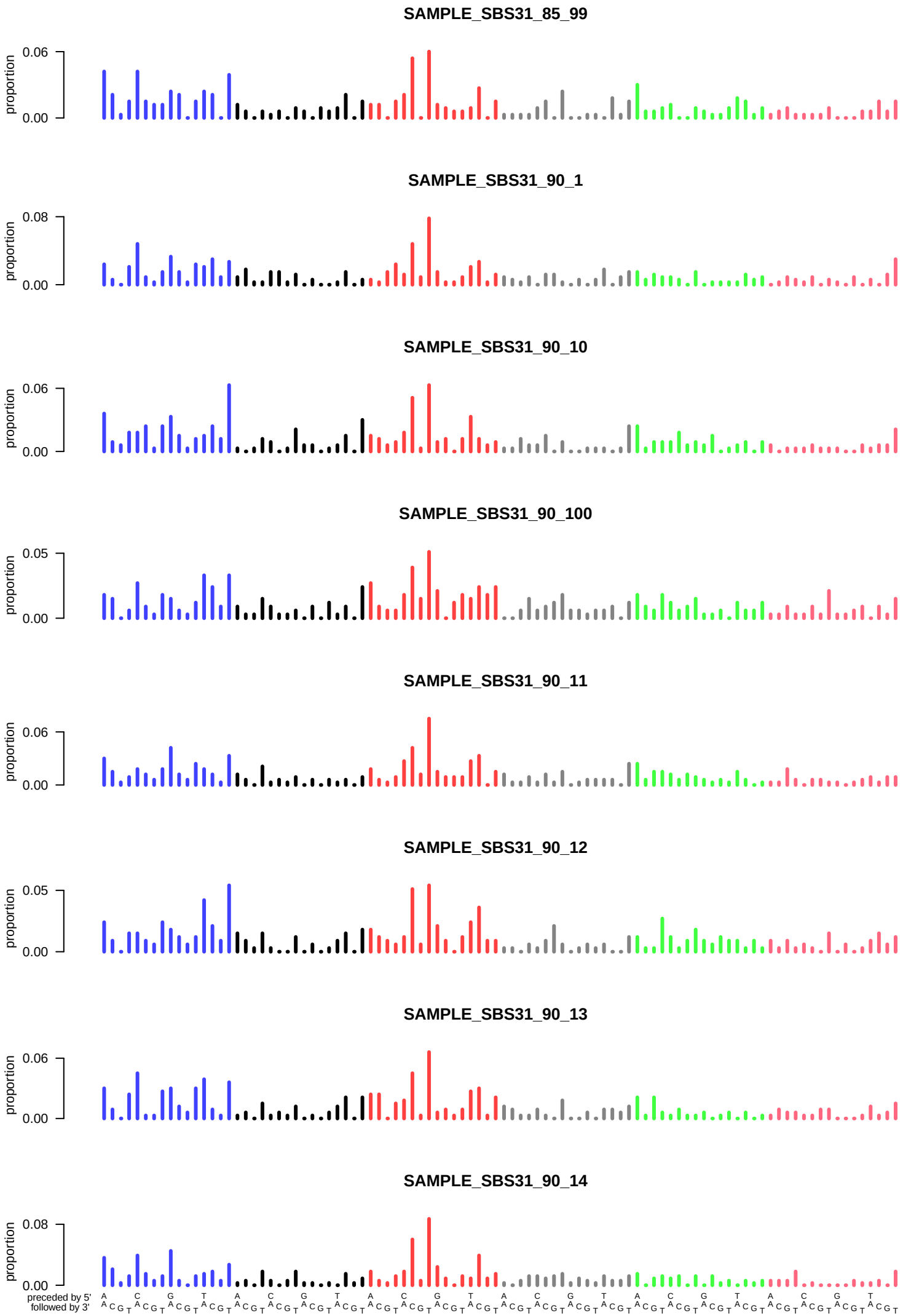
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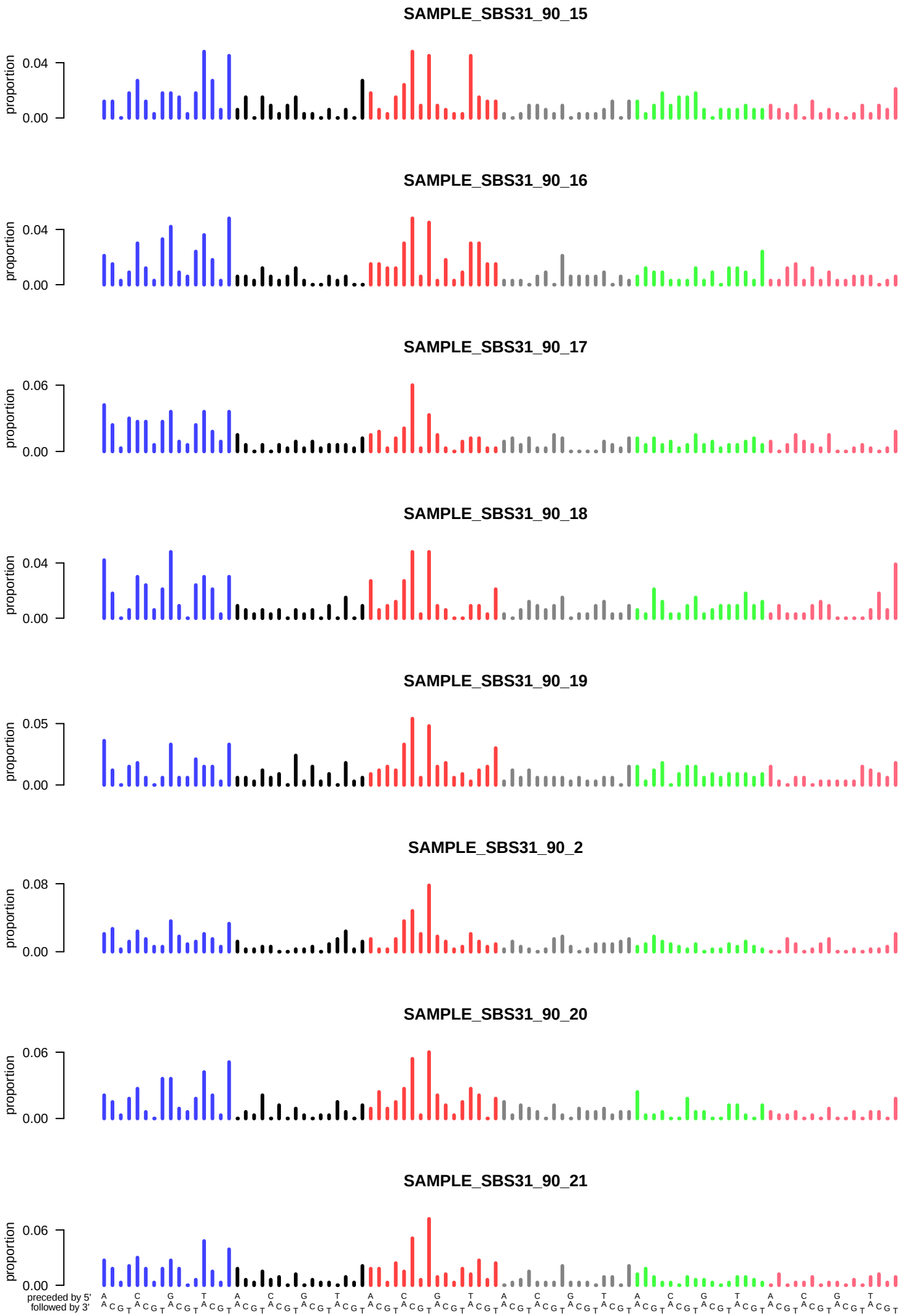
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followed by 3'
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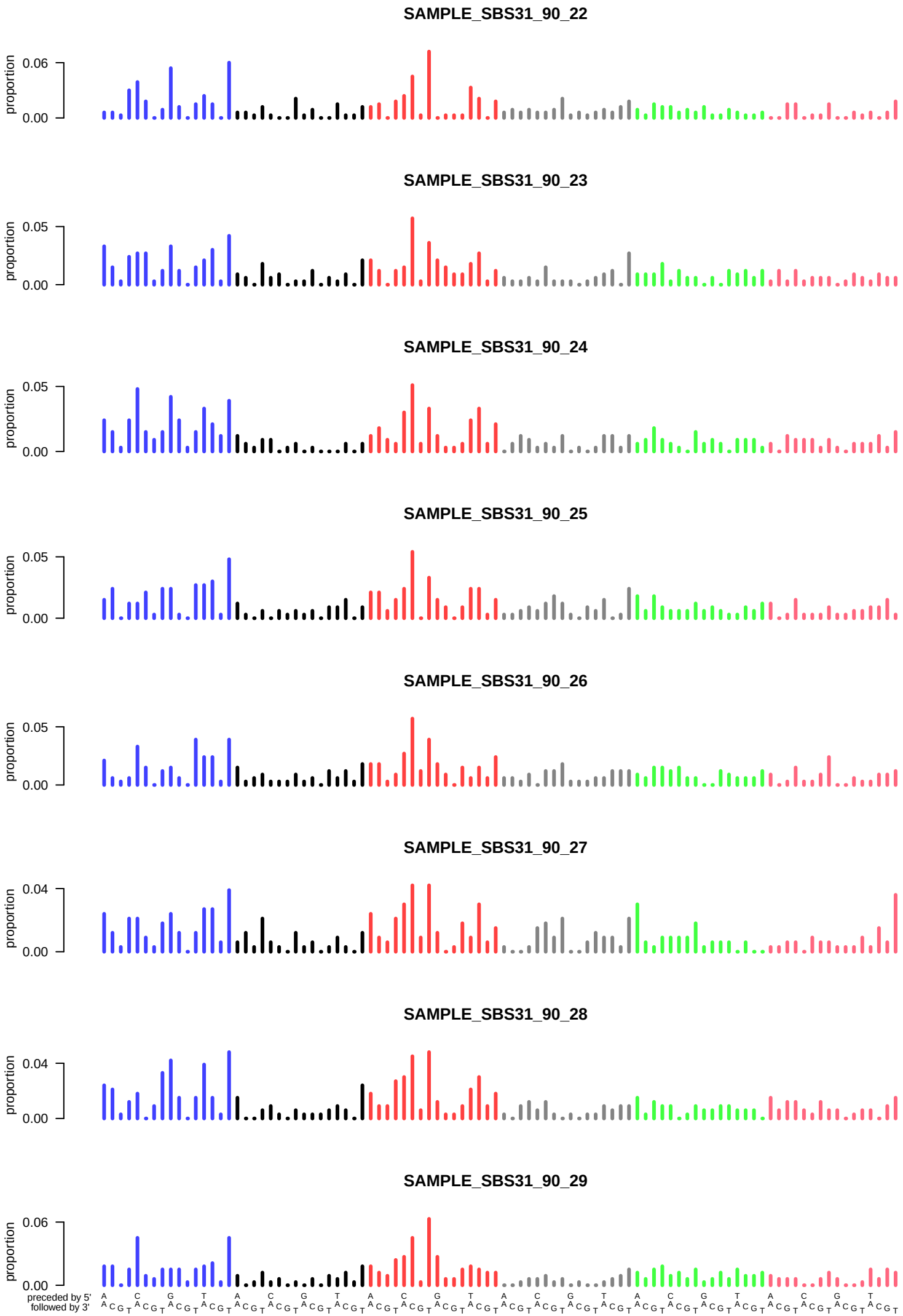
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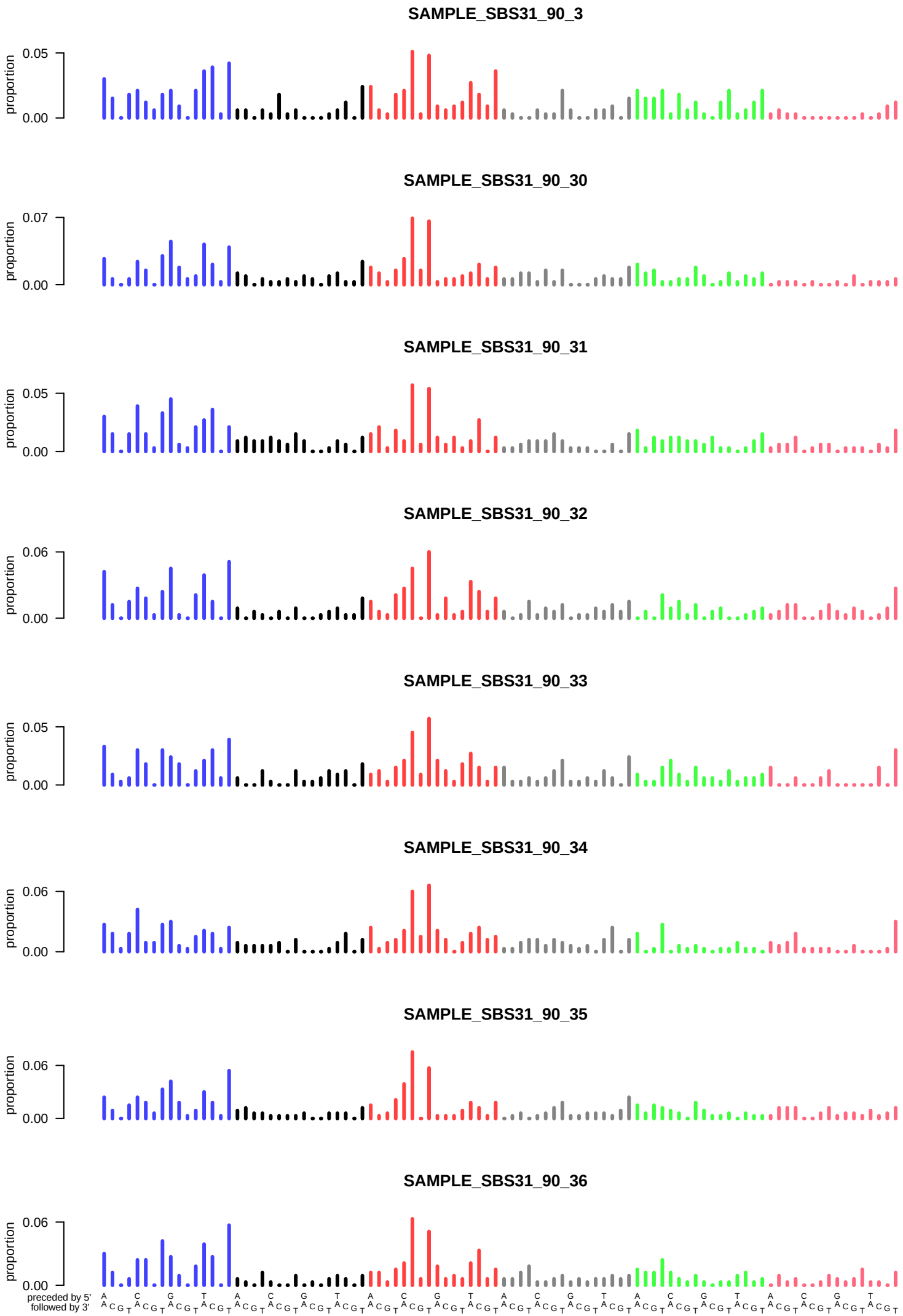
followed by 3'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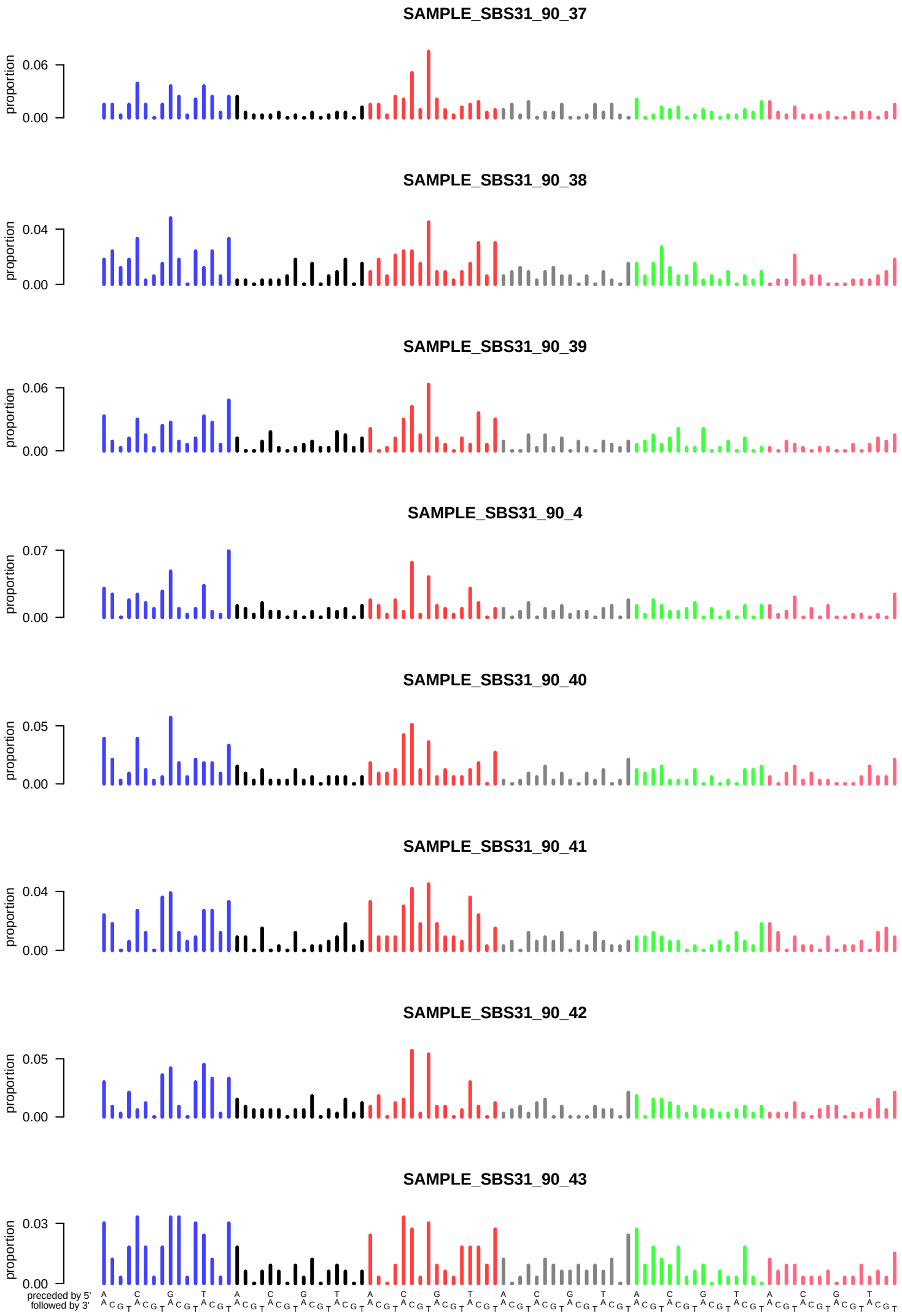
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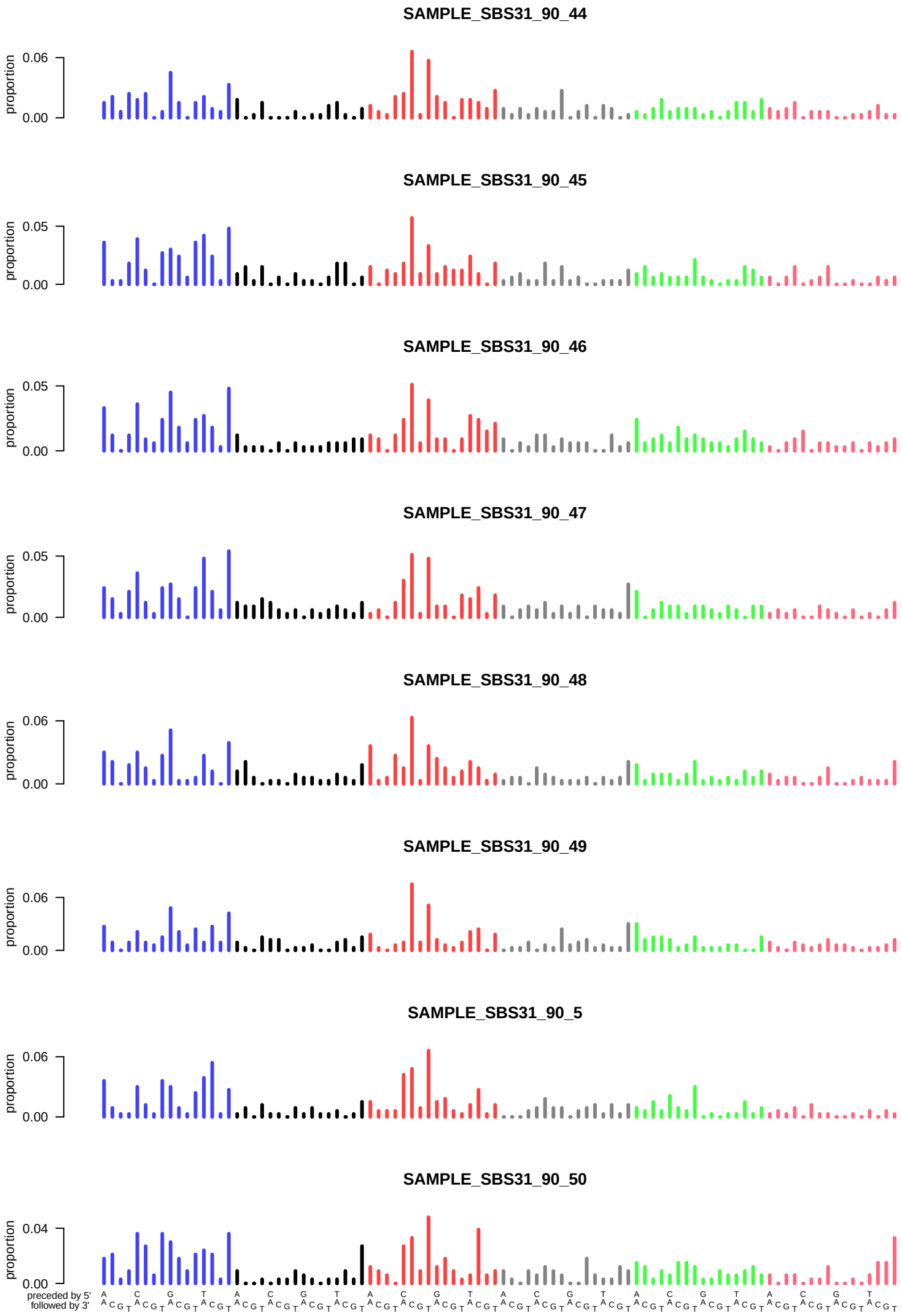
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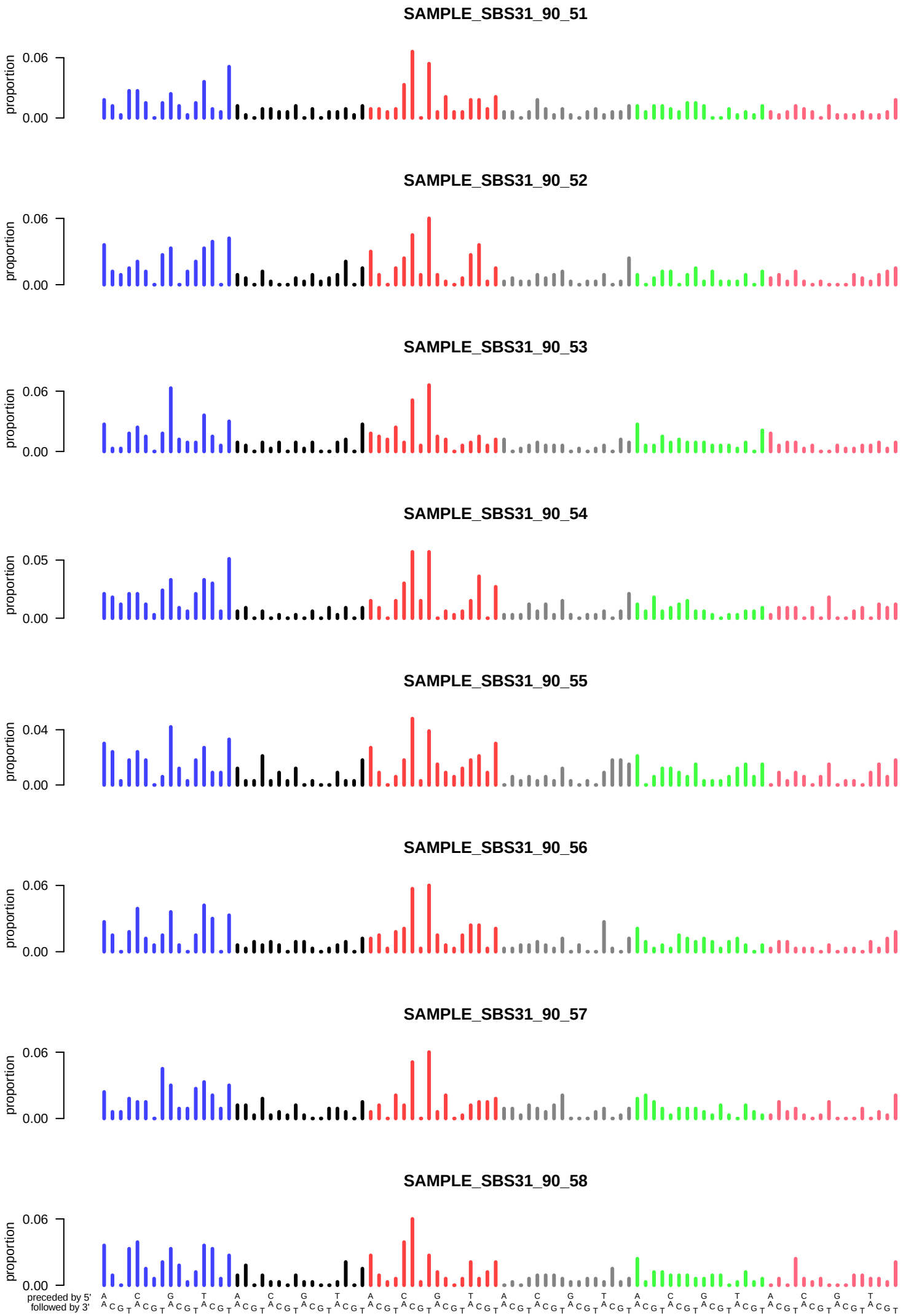
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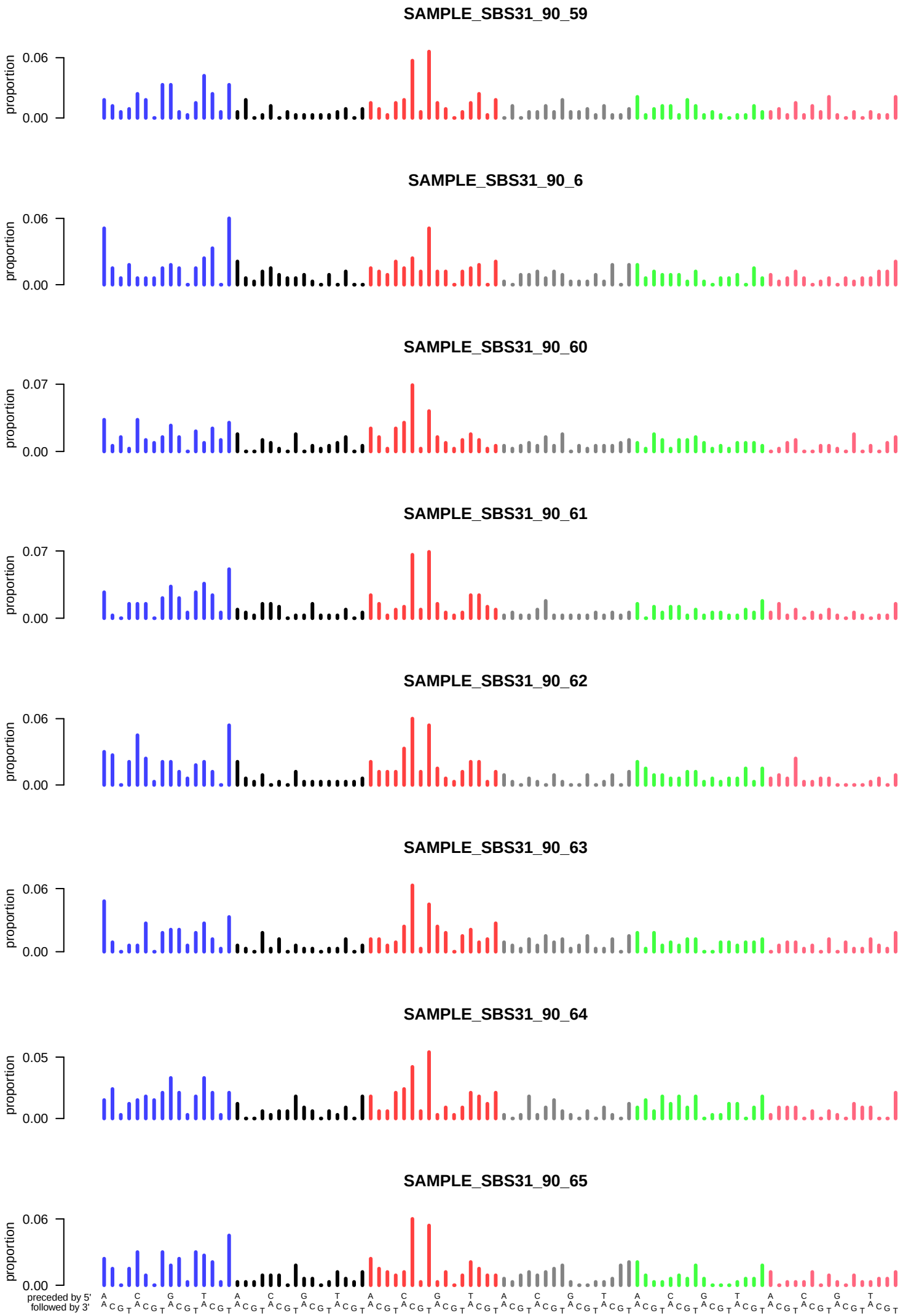
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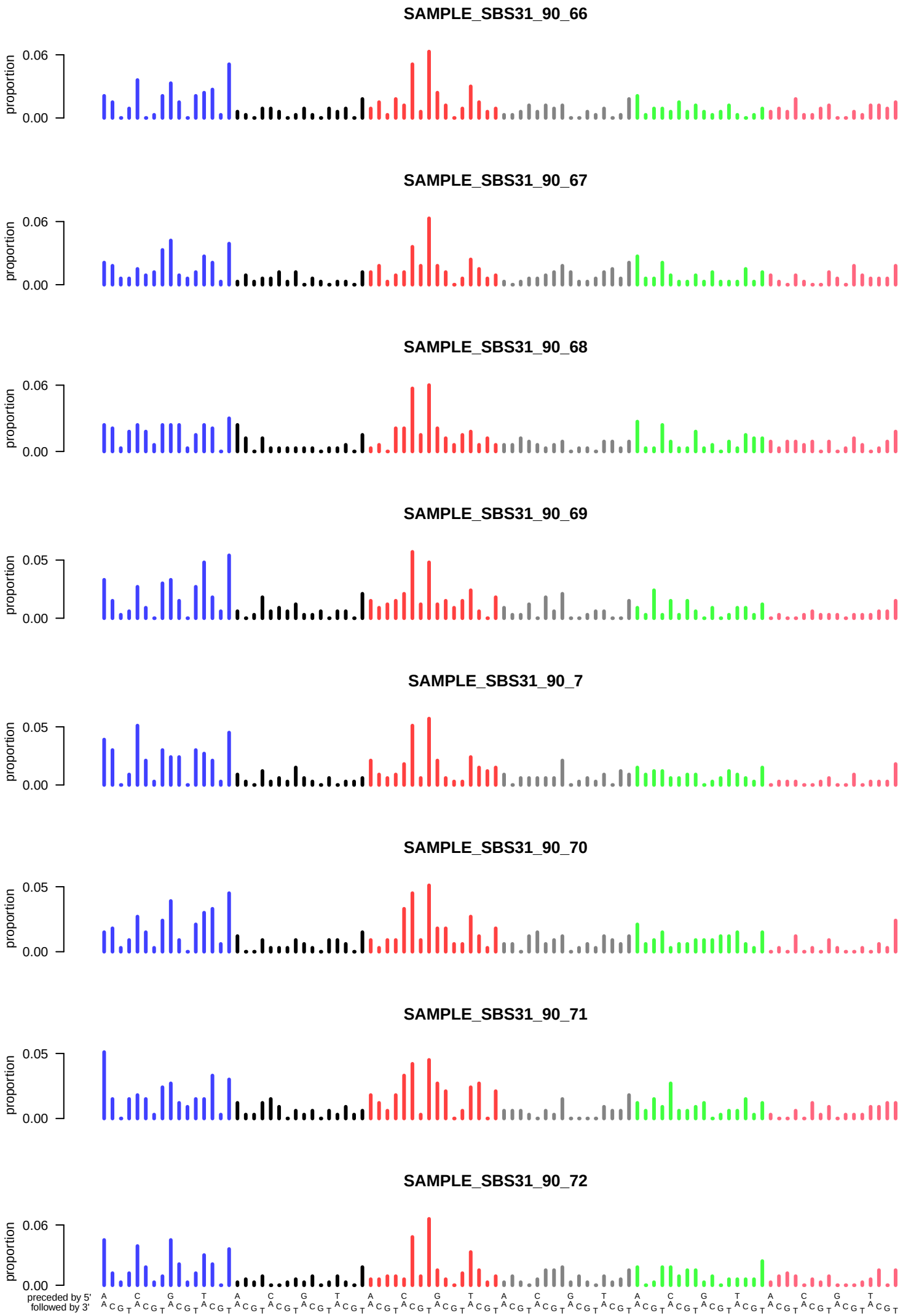
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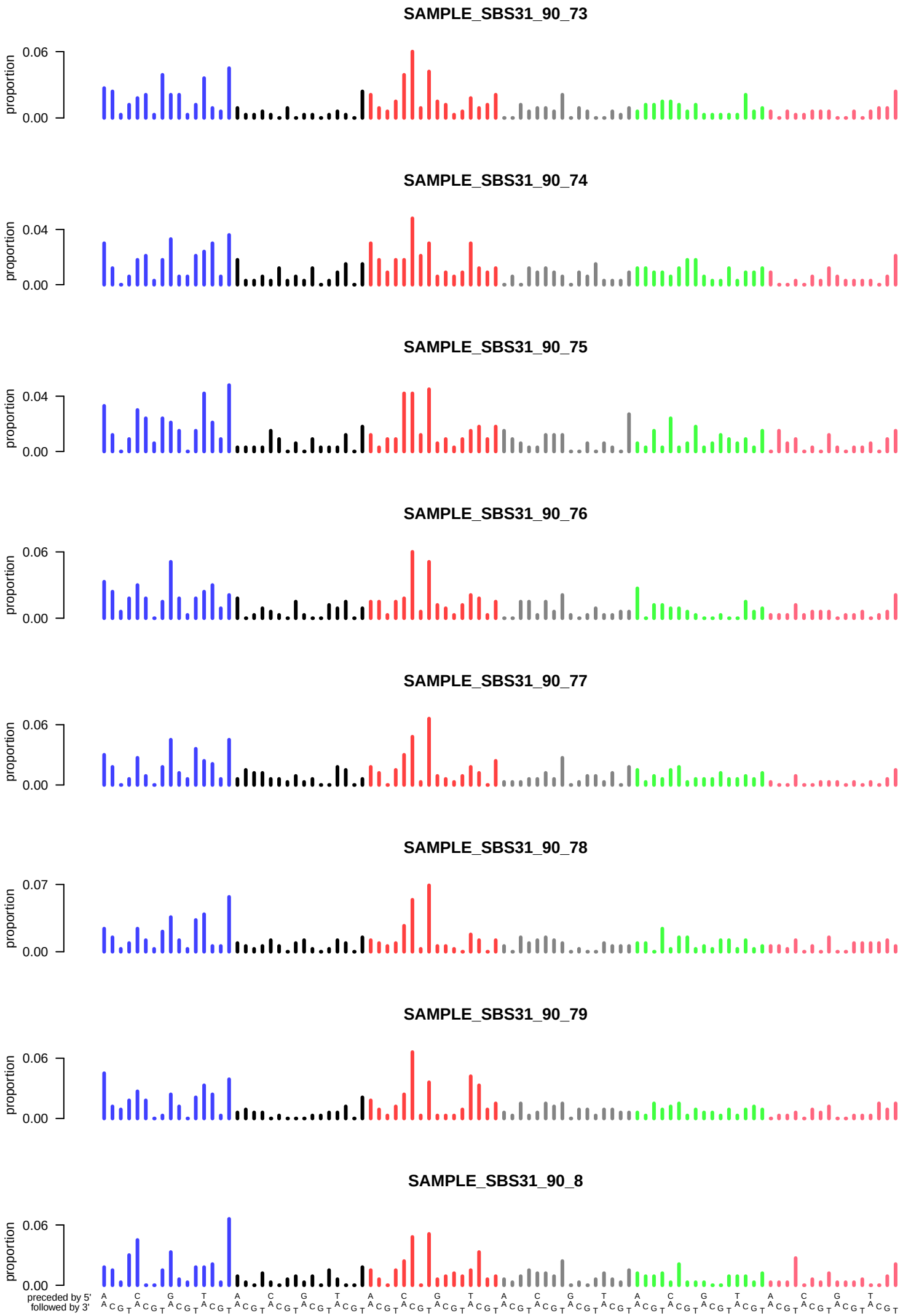
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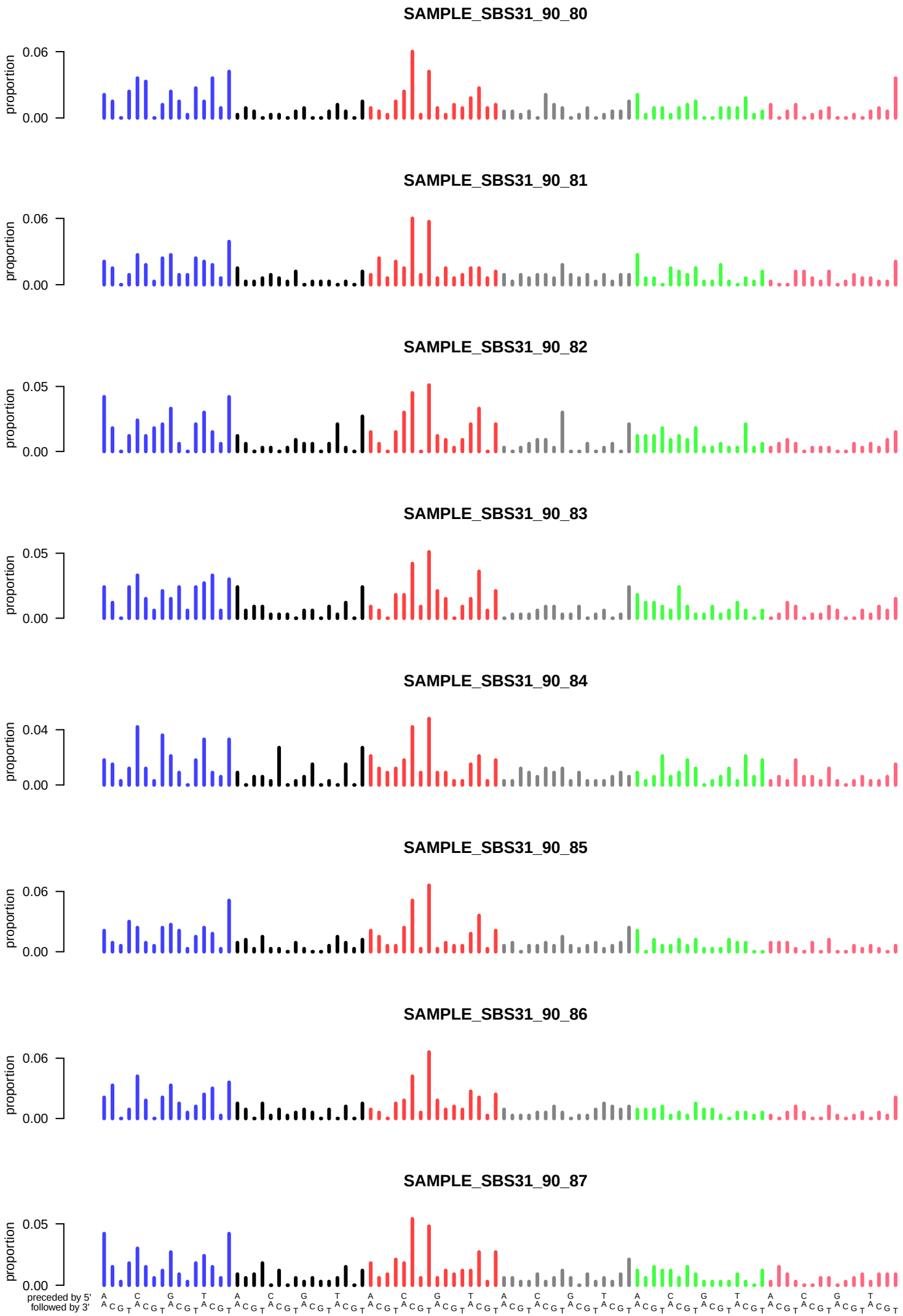
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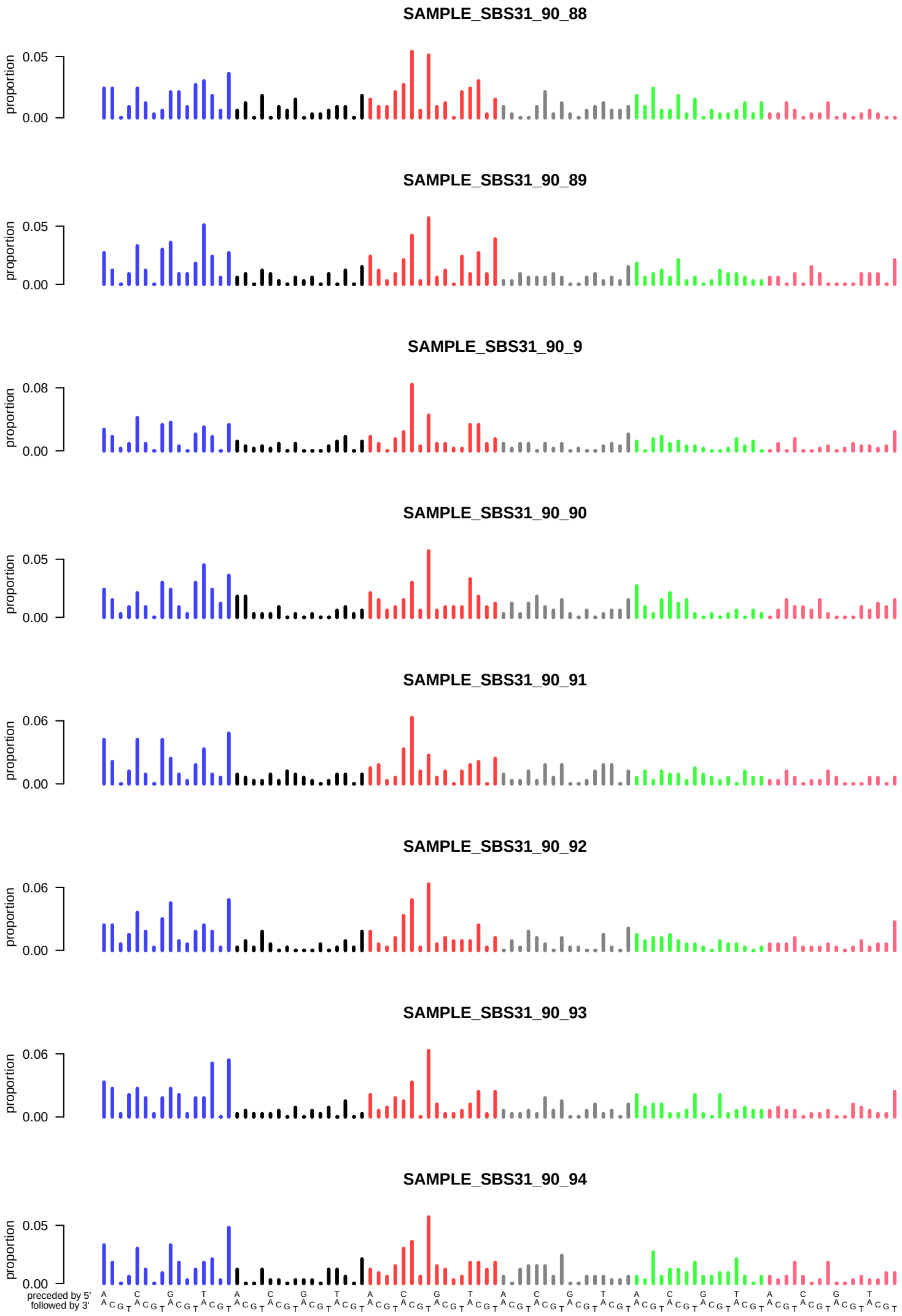
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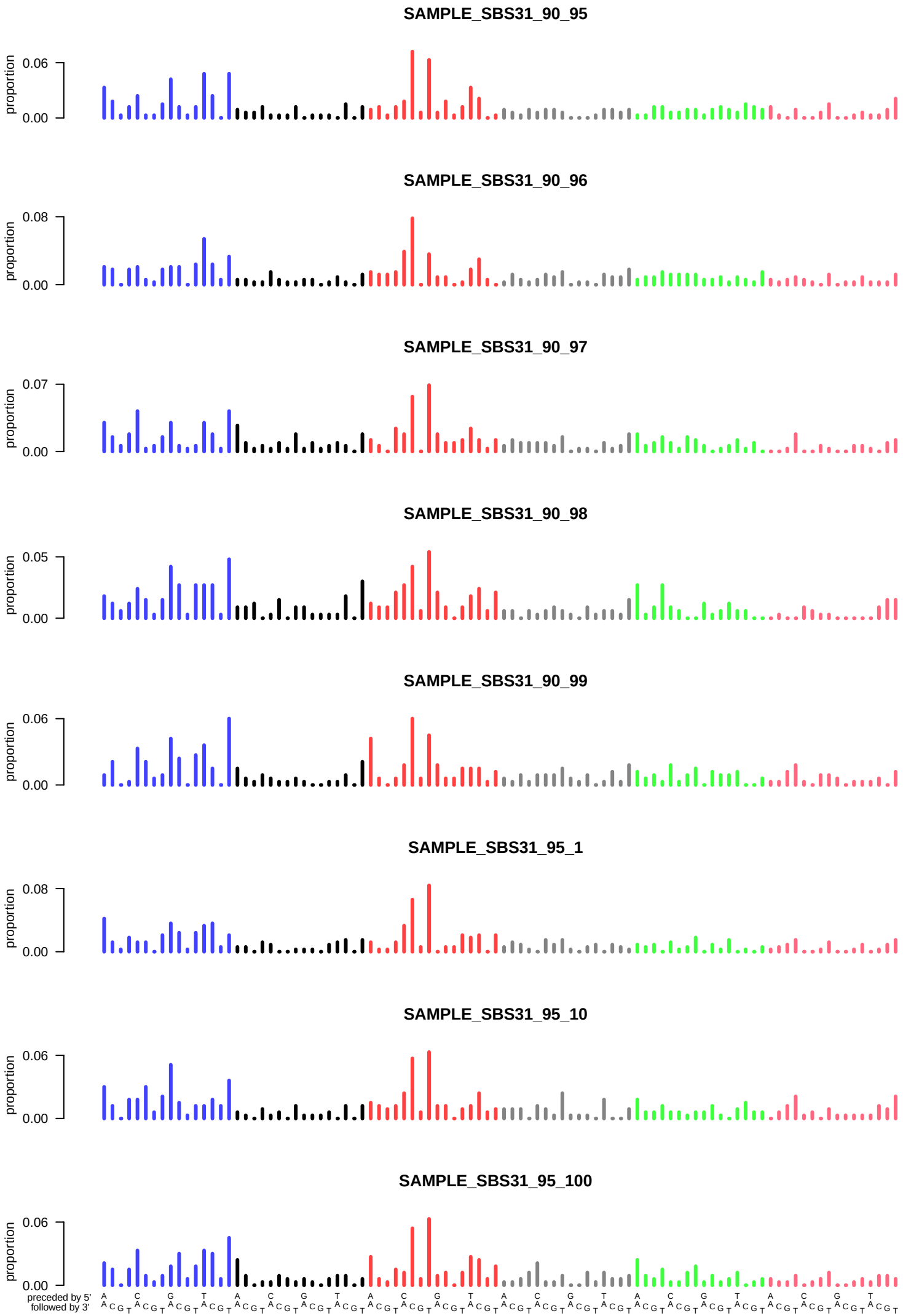
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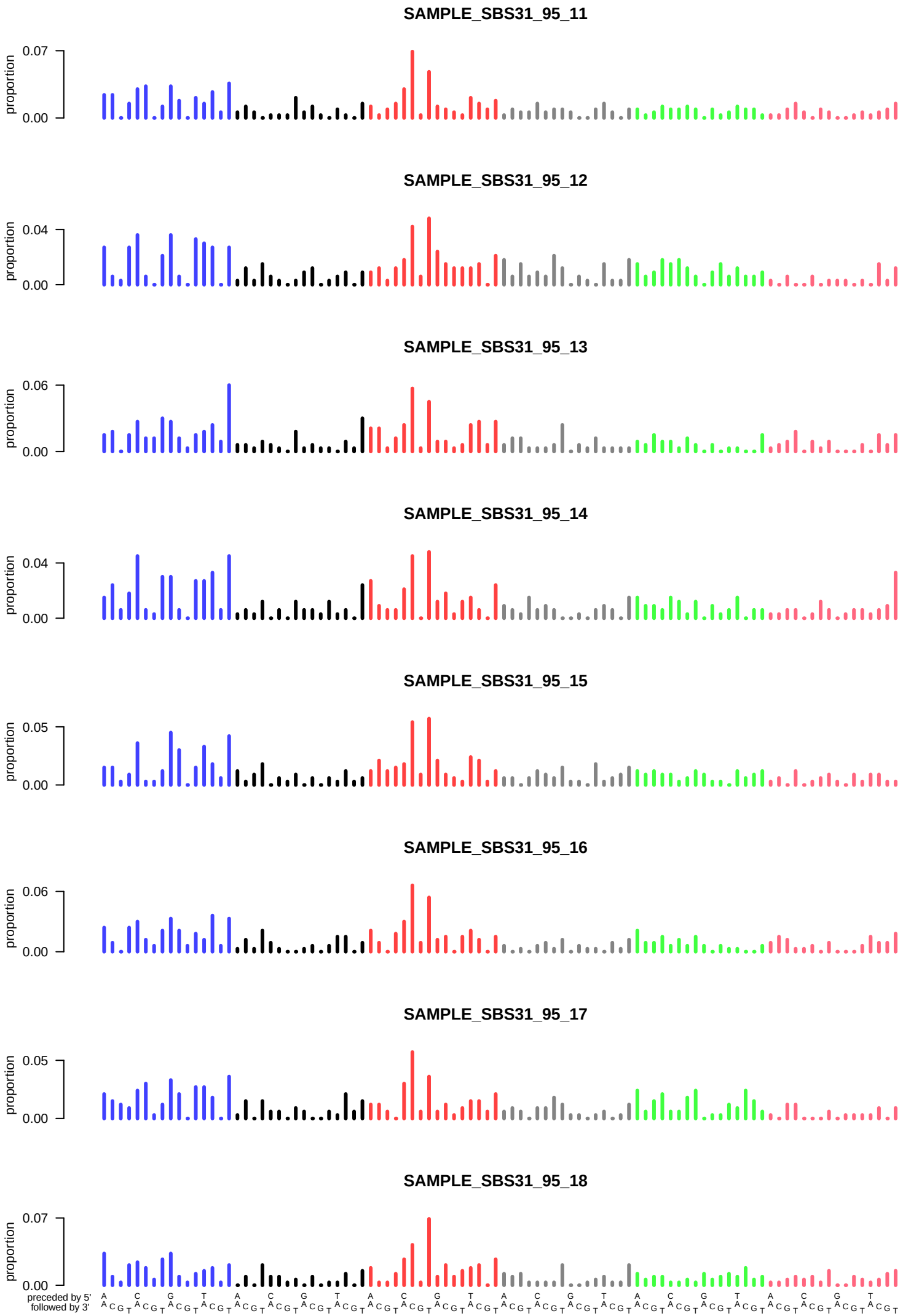
followed by 3'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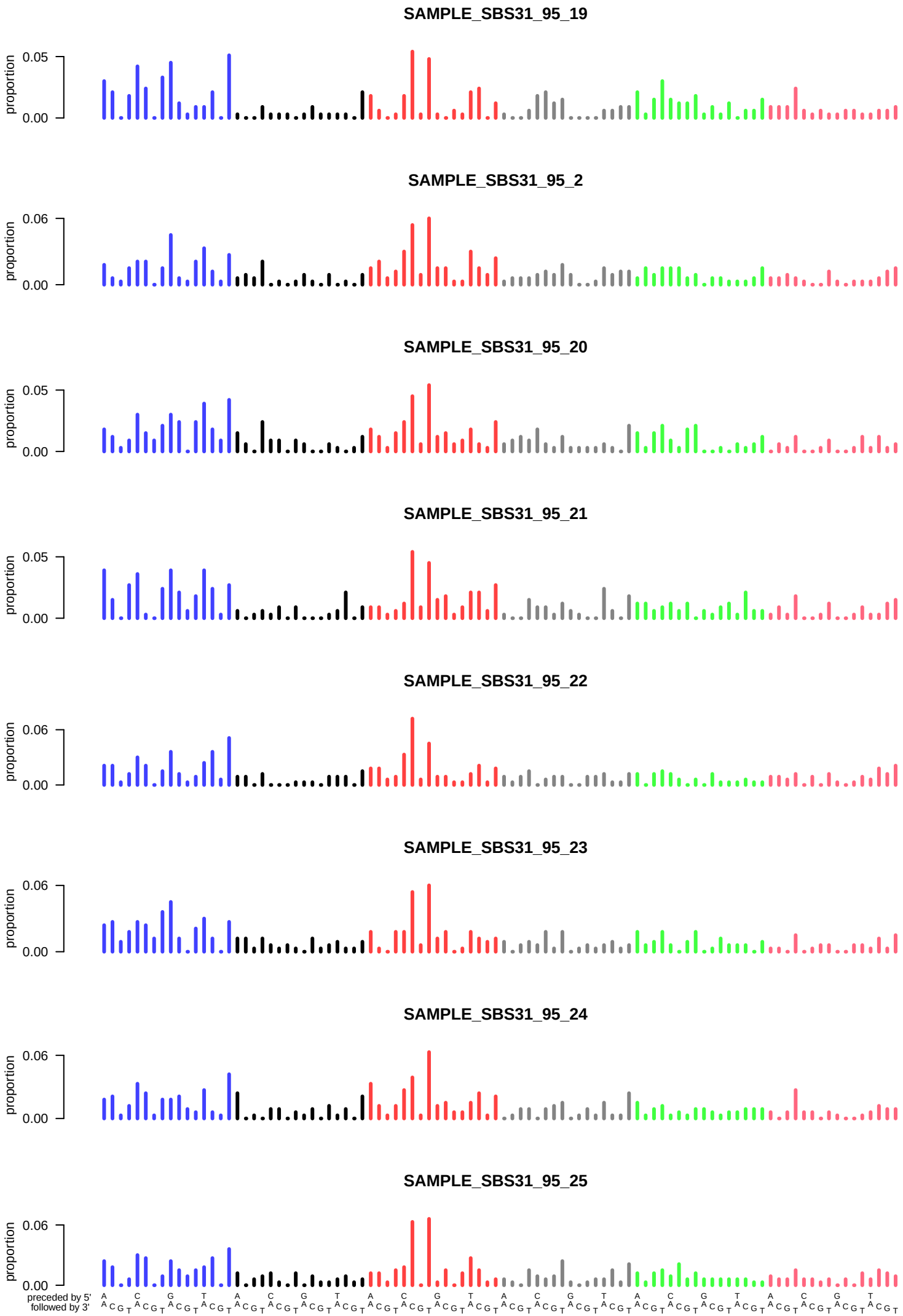
followed by 3'
A C G T A C G T A C G T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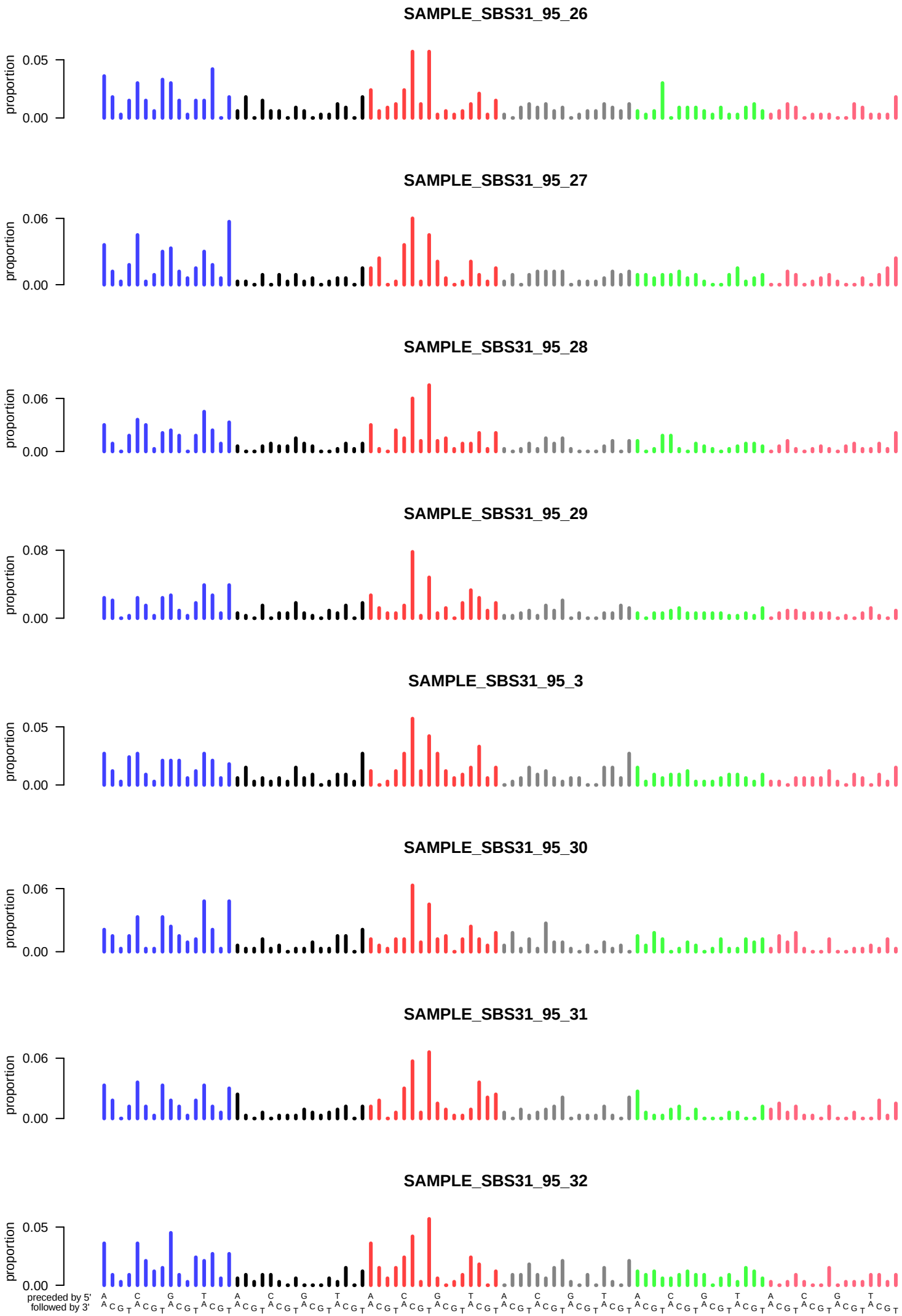
followed by 3'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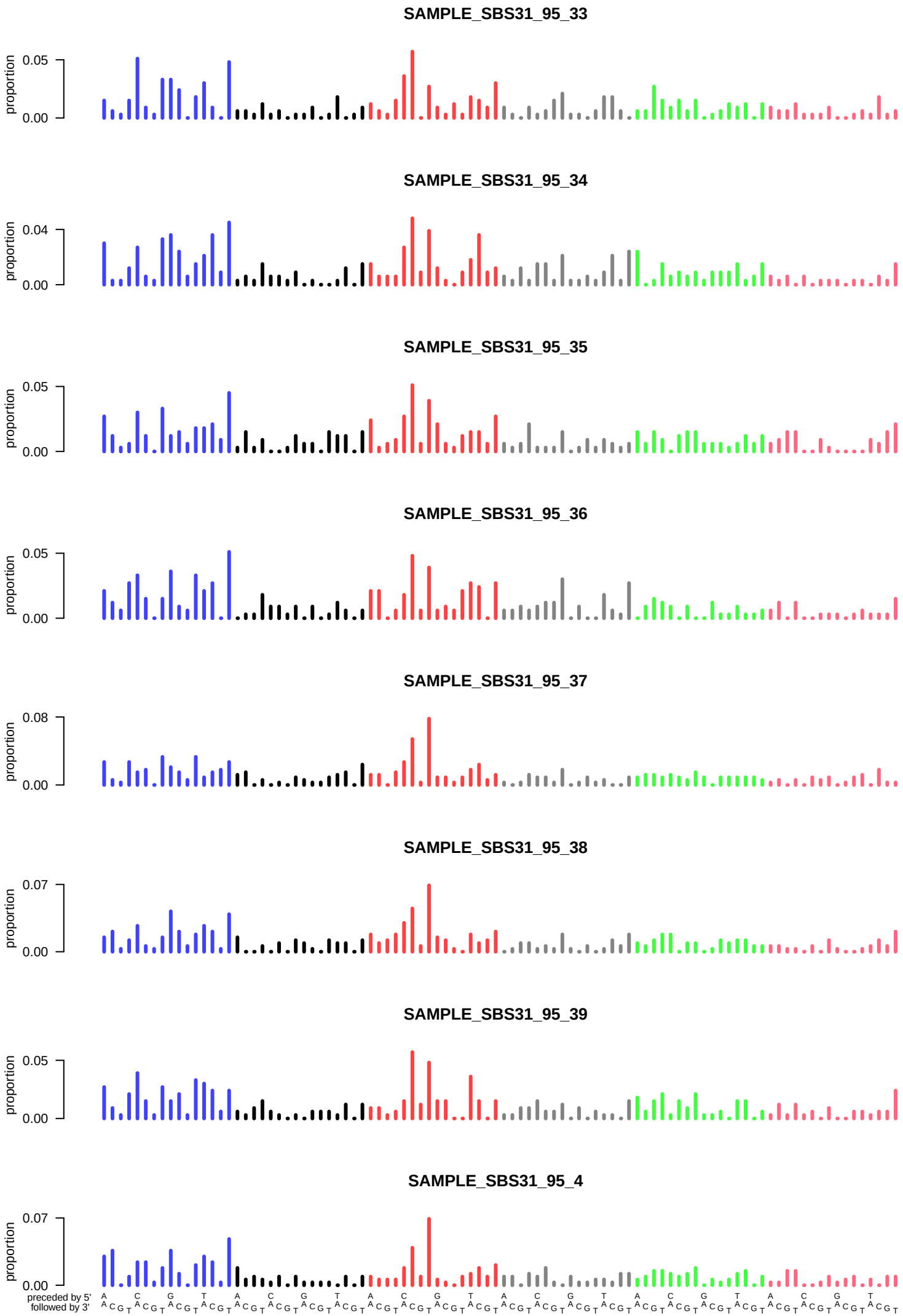
followed by 3'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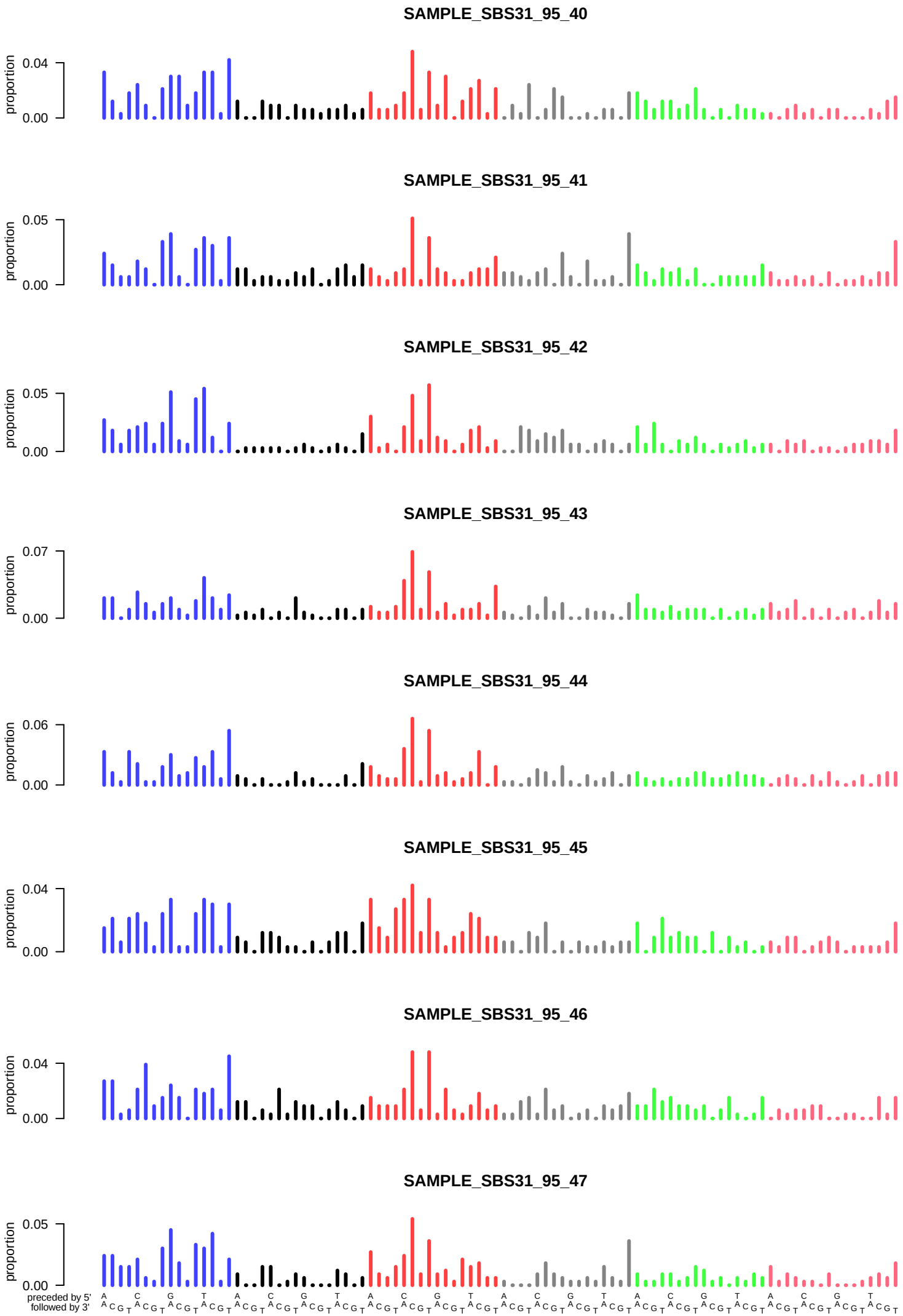
followed by 3'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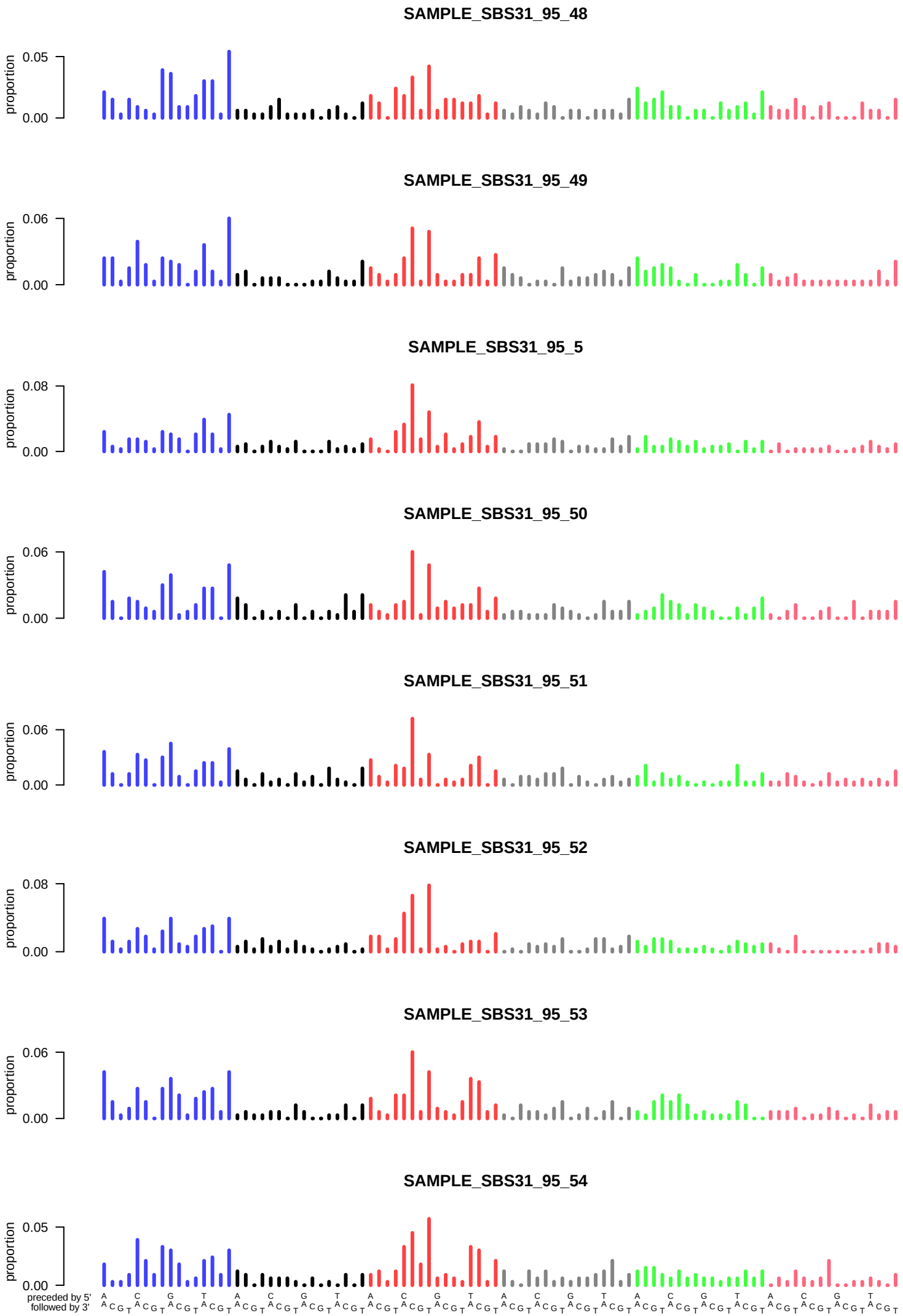
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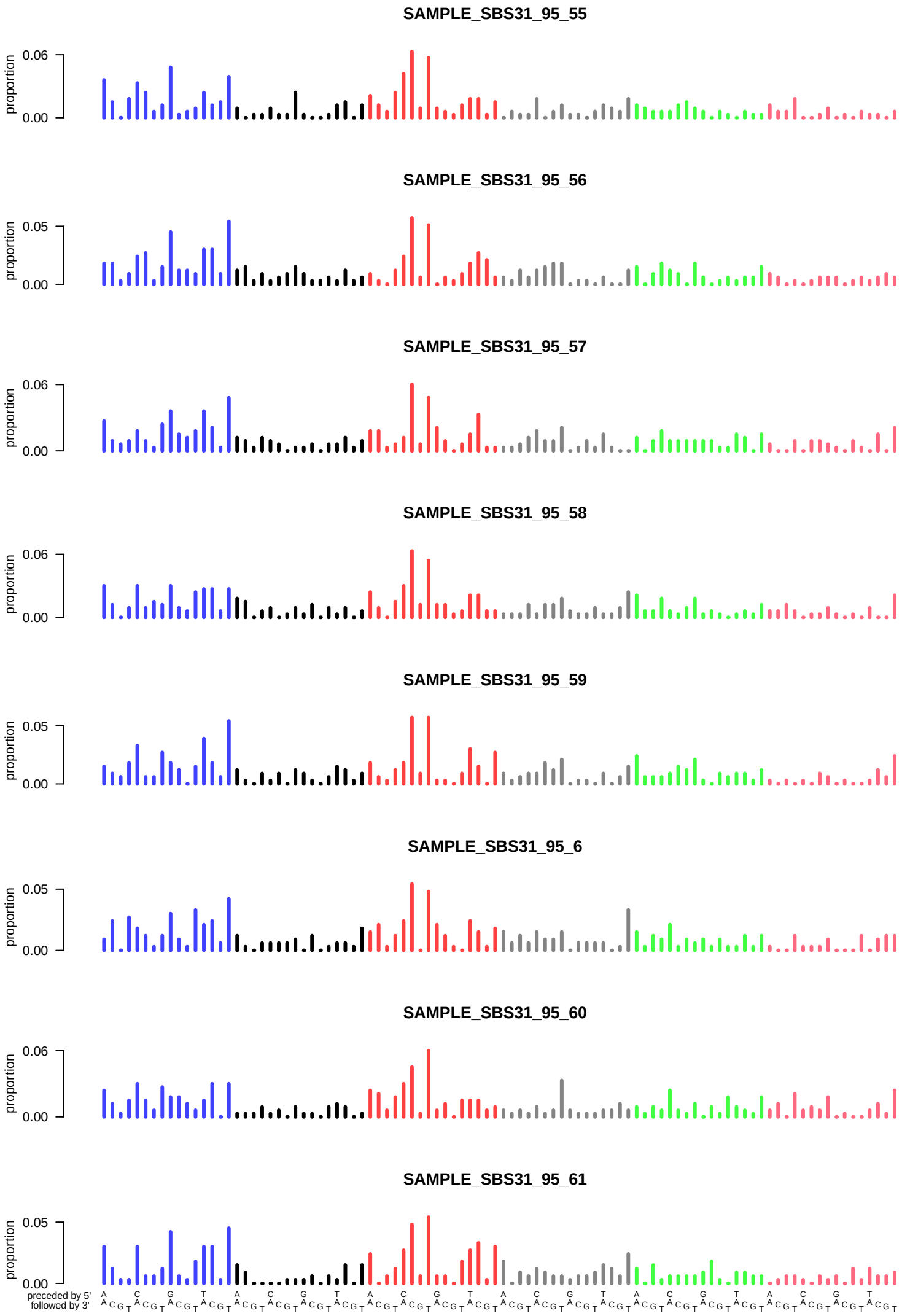
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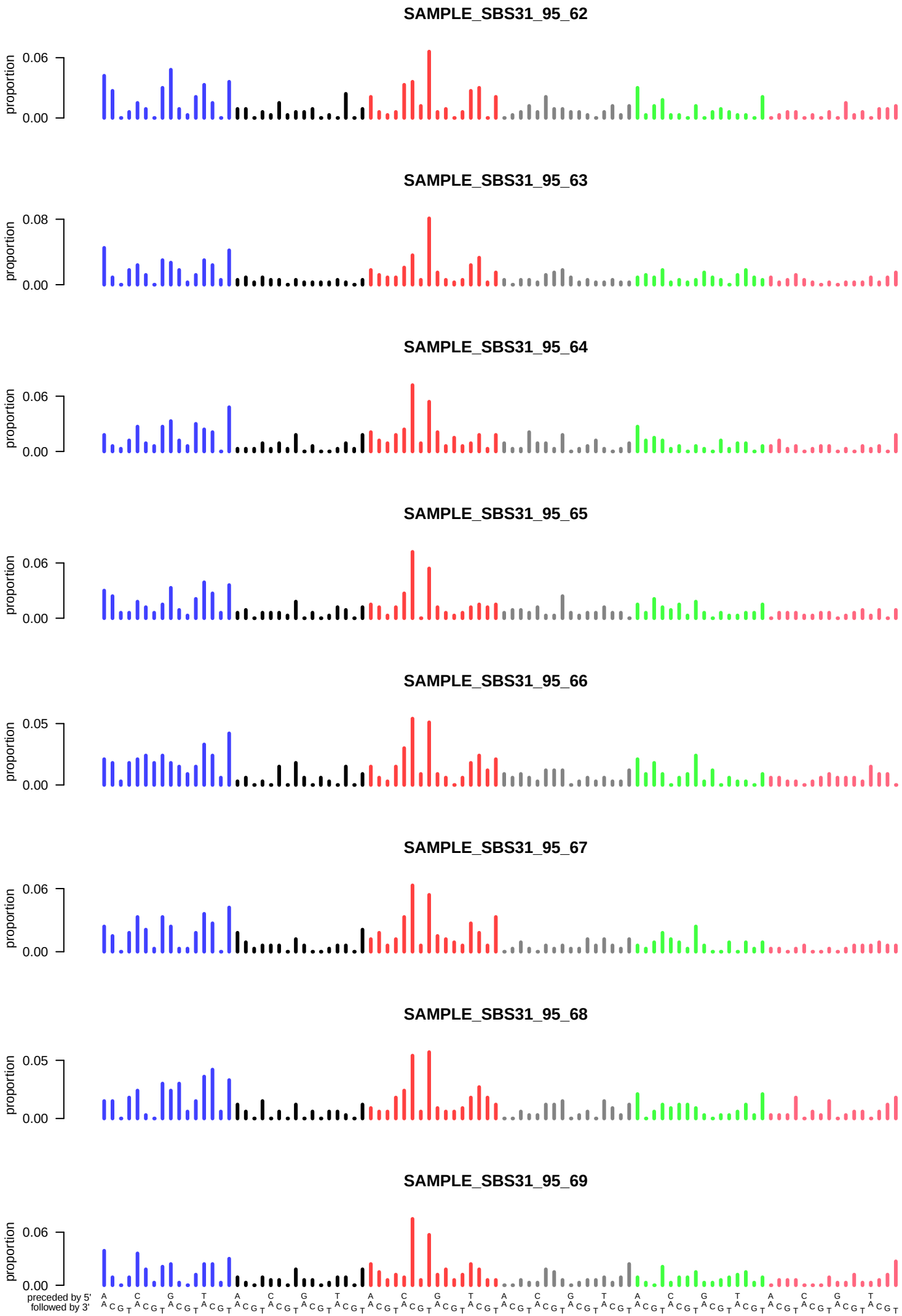
preceded by 5'
followed by 3'
A C G T A C G T A C G T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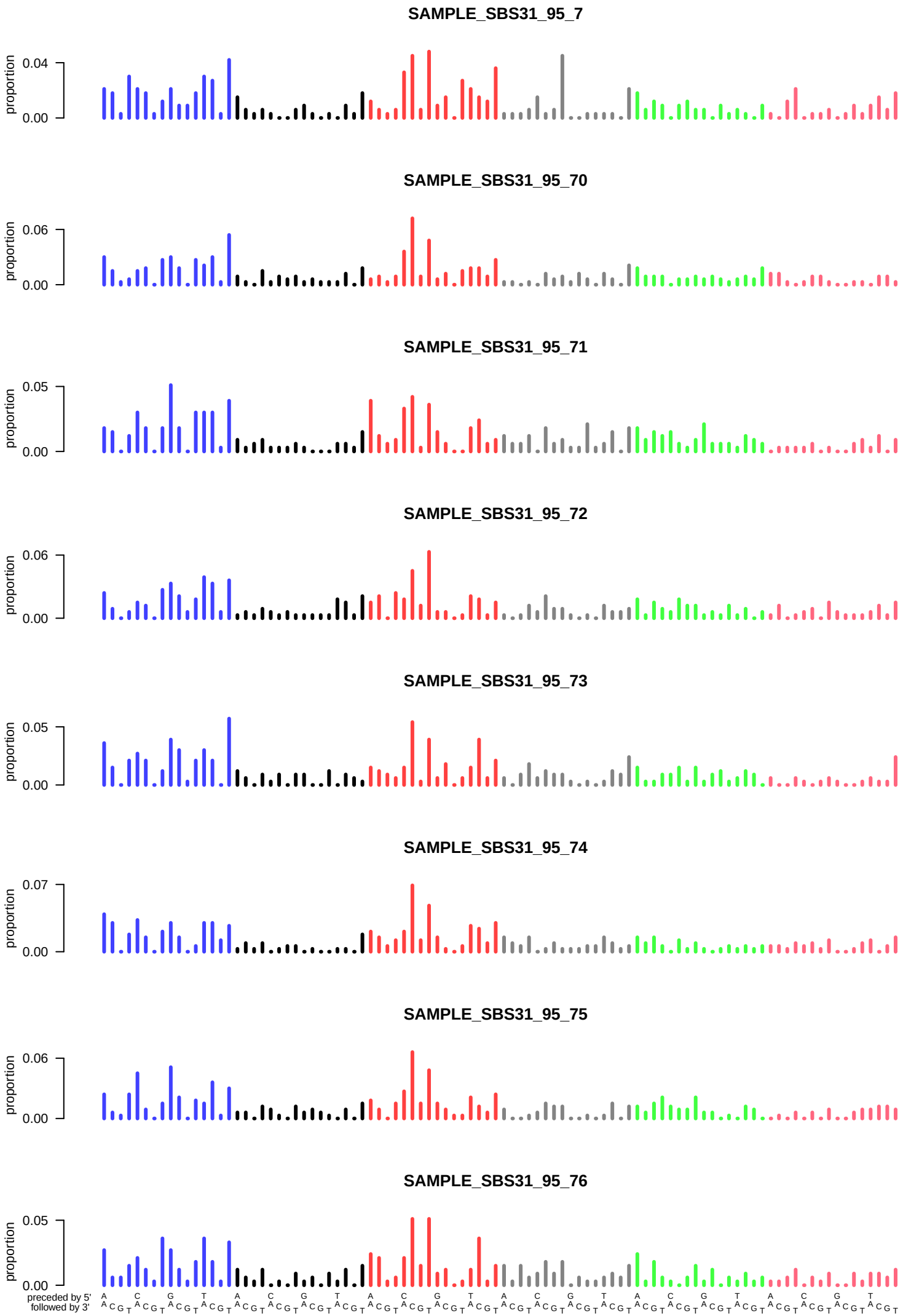
preceded by 5'
followed by 3'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followed by 3'
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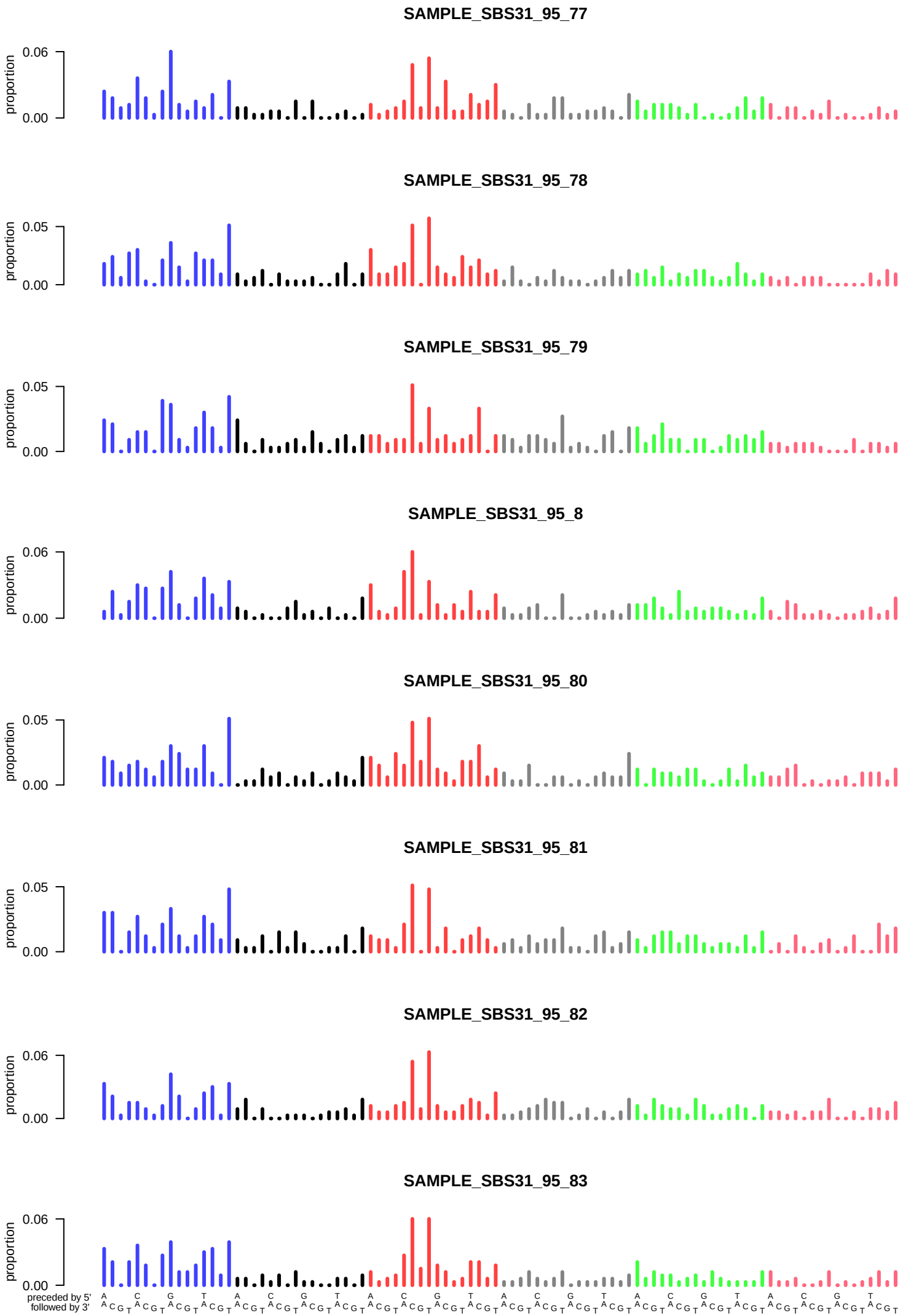
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SAMPLE_SBS31_95_82
proportion
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preceded by 5'
followed by 3'
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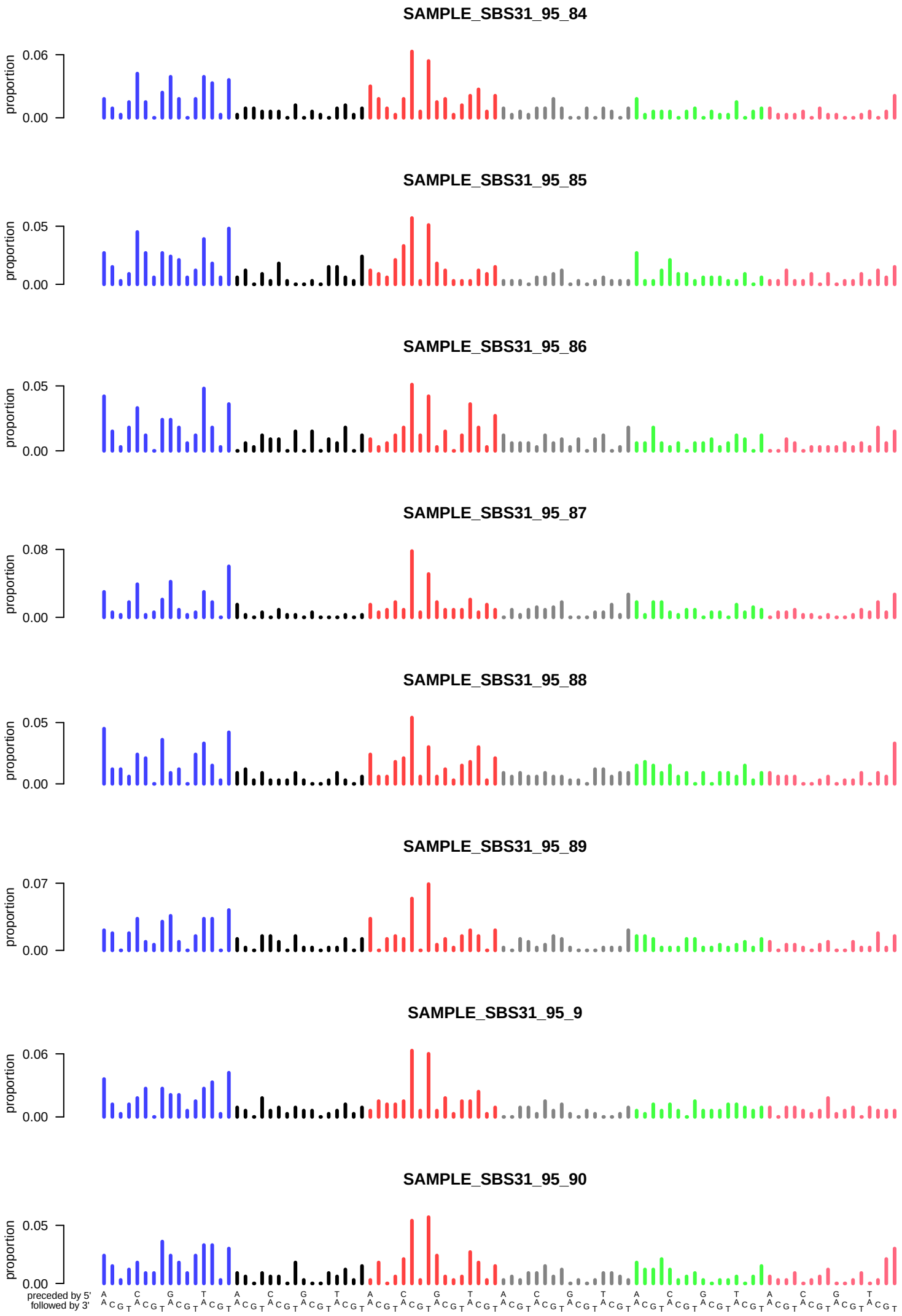
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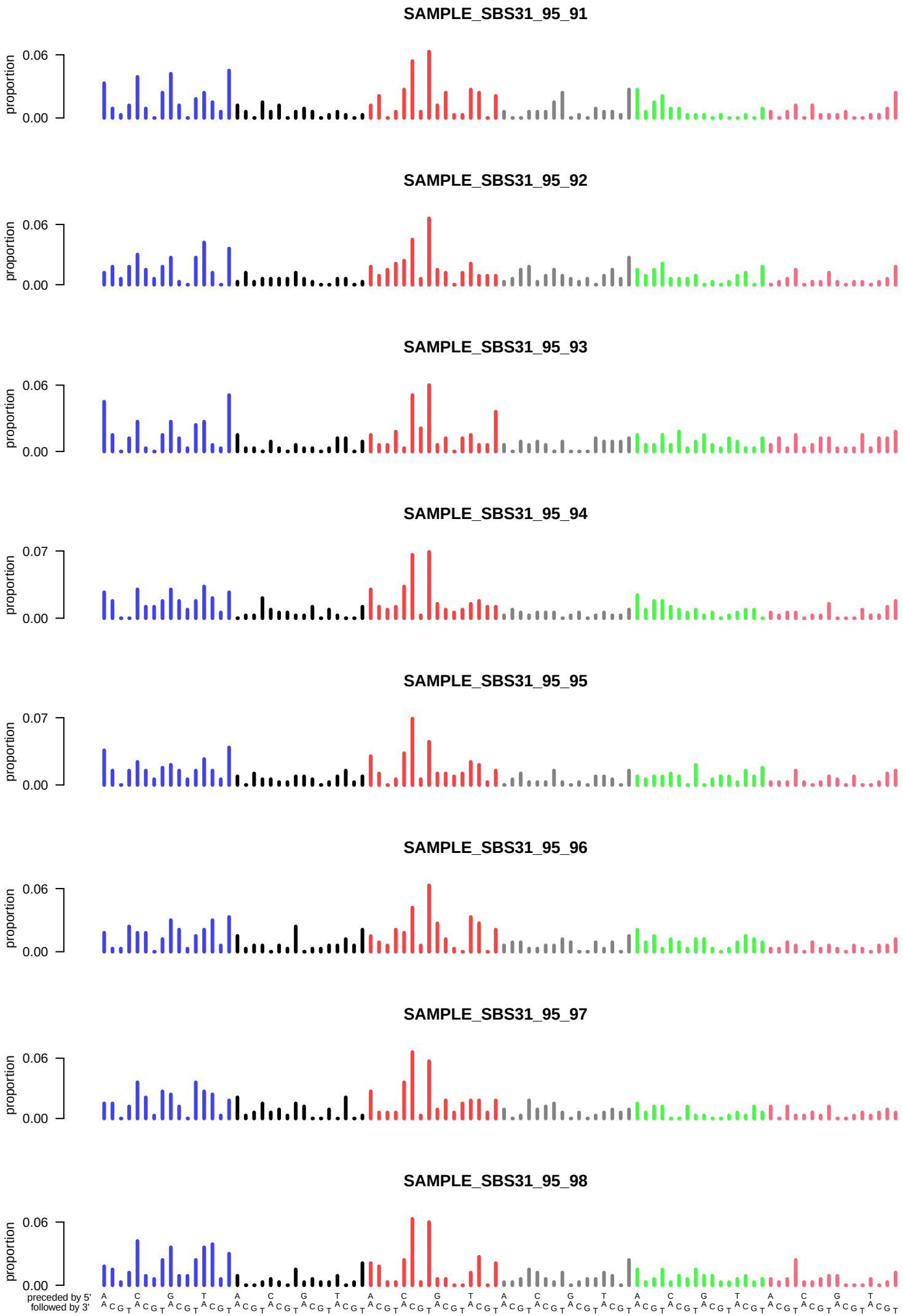
followed by 3'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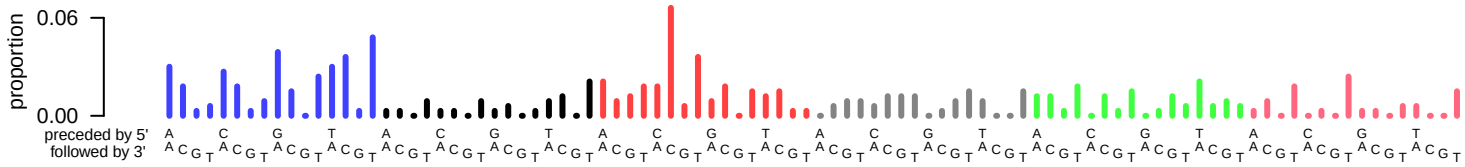
preceded by 5'
followed by 3'

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