

Fourier Spectral Analysis of Coding Sequences

Automated Report

November 20, 2025

Contents

1	Group 1: Single Peak at 0.33	2
2	Group 2: Single Peak Elsewhere	2
3	Group 3: Multiple Peaks	2
3.1	SCFR_NC.060945.1.41607535_41617975	2
3.1.1	Protein: frame-1	2
3.2	SCFR_NC.060945.1.41607447_41617941	3
3.2.1	Protein: frame-2	3
3.3	SCFR_NC.060945.1.41607470_41617934	4
3.3.1	Protein: frame-3	4
3.4	SCFR_NC.060945.1.41607428_41614955	5
3.4.1	Protein: frame3	5
3.5	SCFR_NC.060945.1.41610271_41617888	6
3.5.1	Protein: frame2	6

- 1 Group 1: Single Peak at 0.33
- 2 Group 2: Single Peak Elsewhere
- 3 Group 3: Multiple Peaks

3.1 SCFR_NC_060945.1_41607535_41617975

3.1.1 Protein: frame-1

Gene ID: SCFR

Nucleotide Accession: NC_060945.1

Sequence Length: 10440 bp

Protein Description:

Stop-codon-free region (41607535-41617975)

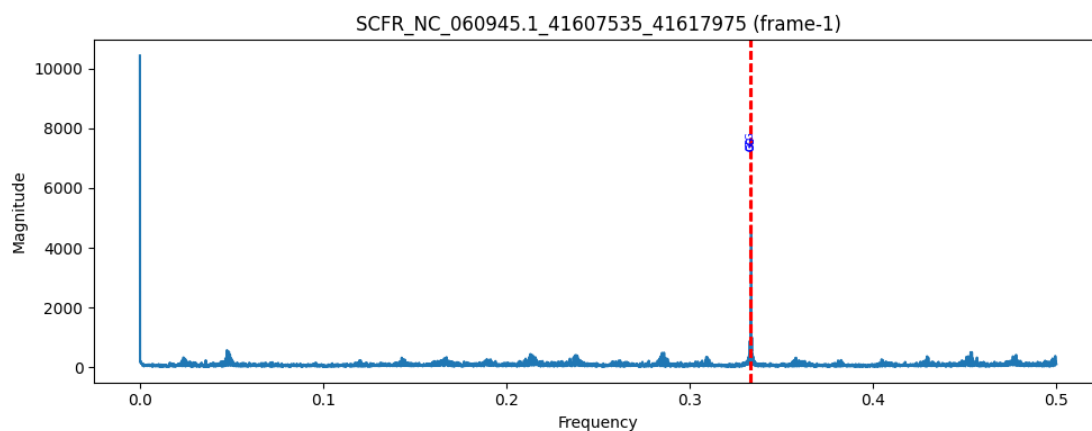


Figure 1: FFT Spectrum for frame-1

Frequency	Motifs
0.333	GG (2687), TG (2660), GT (2447), GA (897), AG (710)
0.333	GTG (2227), TGG (2051), GGT (1988), TGA (566), AGT (433)
0.334	GG (2687), TG (2660), GT (2447), GA (897), AG (710)

3.2 SCFR_NC_060945.1_41607447_41617941

3.2.1 Protein: frame-2

Gene ID: SCFR

Nucleotide Accession: NC_060945.1

Sequence Length: 10494 bp

Protein Description:

Stop-codon-free region (41607447-41617941)

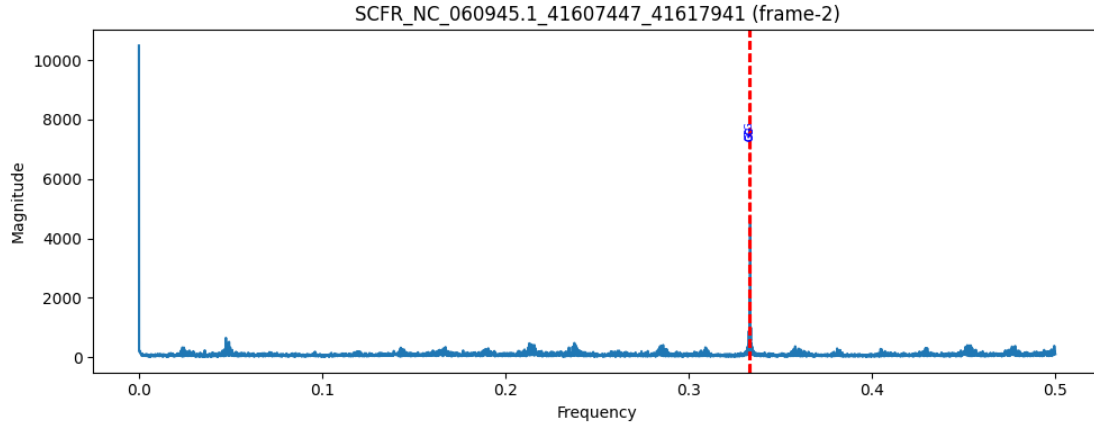


Figure 2: FFT Spectrum for frame-2

Frequency	Motifs
0.333	GG (2694), TG (2667), GT (2456), GA (898), AG (714)
0.333	GTG (2231), TGG (2056), GGT (1991), TGA (564), AGT (434)
0.334	GG (2694), TG (2667), GT (2456), GA (898), AG (714)

3.3 SCFR_NC_060945.1_41607470_41617934

3.3.1 Protein: frame-3

Gene ID: SCFR

Nucleotide Accession: NC_060945.1

Sequence Length: 10464 bp

Protein Description:

Stop-codon-free region (41607470-41617934)

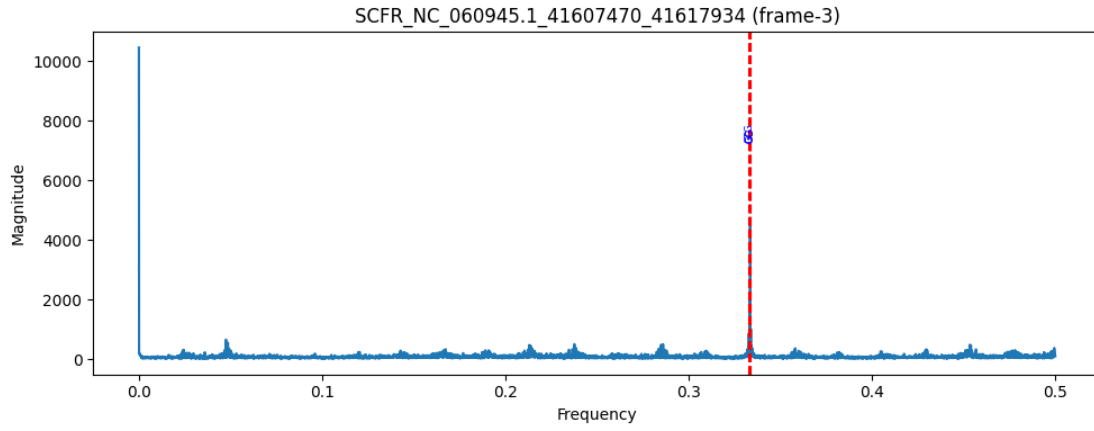


Figure 3: FFT Spectrum for frame-3

Frequency	Motifs
0.333	GG (2693), TG (2665), GT (2455), GA (896), AG (712)
0.333	GTG (2231), TGG (2055), GGT (1991), TGA (564), AGT (434)
0.334	GG (2693), TG (2665), GT (2455), GA (896), AG (712)

3.4 SCFR_NC_060945.1_41607428_41614955

3.4.1 Protein: frame3

Gene ID: SCFR

Nucleotide Accession: NC_060945.1

Sequence Length: 7527 bp

Protein Description:

Stop-codon-free region (41607428-41614955)

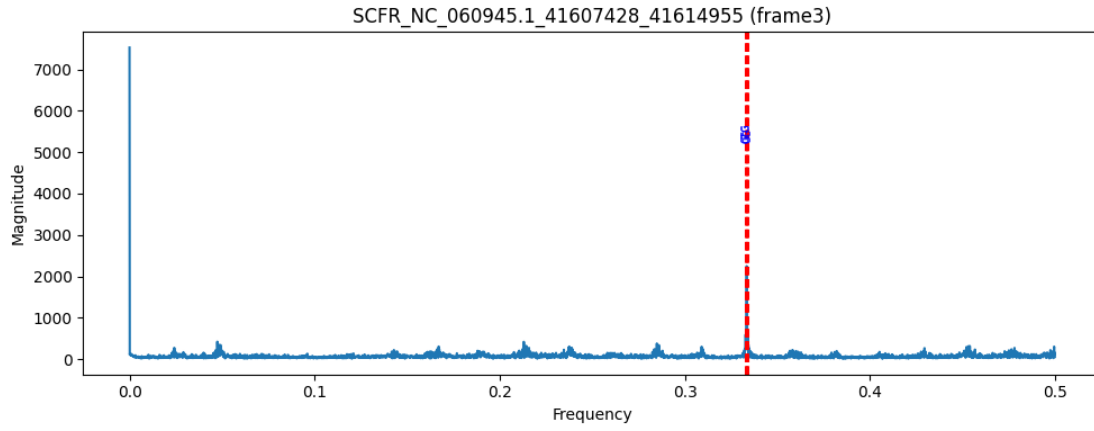


Figure 4: FFT Spectrum for frame3

Frequency	Motifs
0.333	GTG (1623), TGG (1497), GGT (1450), TGA (396), AGT (311)
0.334	GG (1953), TG (1921), GT (1777), GA (631), AG (504)
0.333	GTG (1623), TGG (1497), GGT (1450), TGA (396), AGT (311)

3.5 SCFR_NC_060945.1_41610271_41617888

3.5.1 Protein: frame2

Gene ID: SCFR

Nucleotide Accession: NC_060945.1

Sequence Length: 7617 bp

Protein Description:

Stop-codon-free region (41610271-41617888)

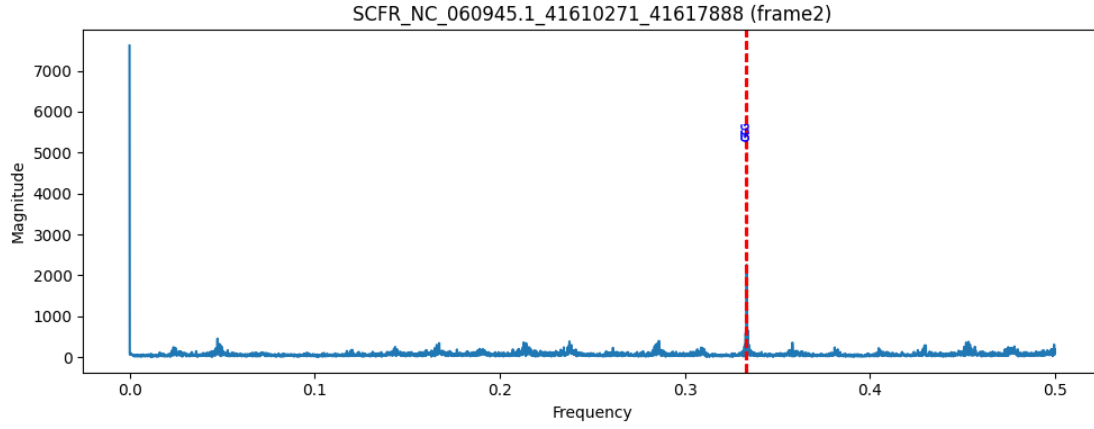


Figure 5: FFT Spectrum for frame2

Frequency	Motifs
0.333	GTG (1628), TGG (1499), GGT (1453), TGA (407), AGT (321)
0.334	GG (1977), TG (1939), GT (1796), GA (654), AG (527)
0.333	GTG (1628), TGG (1499), GGT (1453), TGA (407), AGT (321)