

Fourier Spectral Analysis of Coding Sequences

Automated Report

November 20, 2025

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1 Group 1: Single Peak at 0.33

1.1 SCFR_NC_060930.1_65442955_65449012

1.1.1 Protein: frame2

Gene ID: SCFR

Nucleotide Accession: NC_060930.1

Sequence Length: 6057 bp

Protein Description:

Stop-codon-free region (65442955-65449012)

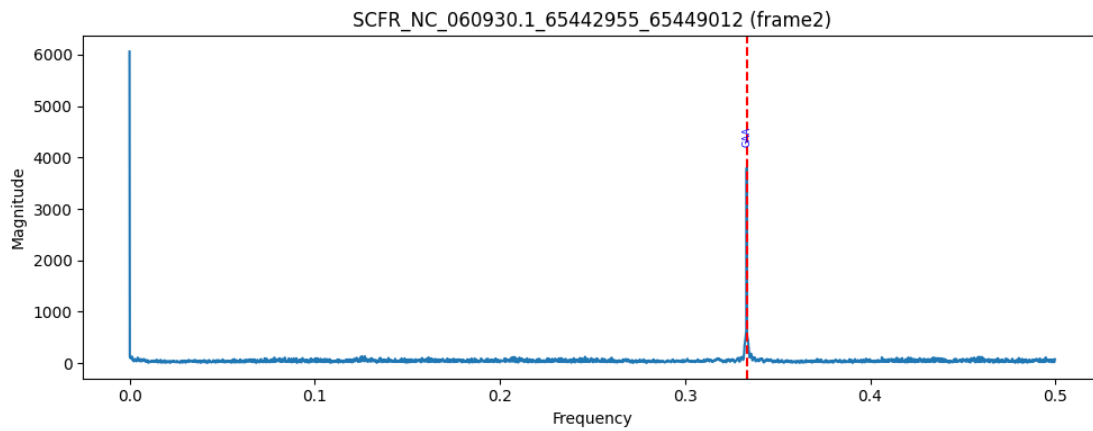


Figure 1: FFT Spectrum for frame2

Frequency	Motifs
0.333	GAA (1478), AGA (1473), AAG (1470), CAG (473), AGC (470)

1.2 SCFR_NC_060930.1_65442883_65449135

1.2.1 Protein: frame-2

Gene ID: SCFR

Nucleotide Accession: NC_060930.1

Sequence Length: 6252 bp

Protein Description:

Stop-codon-free region (65442883-65449135)

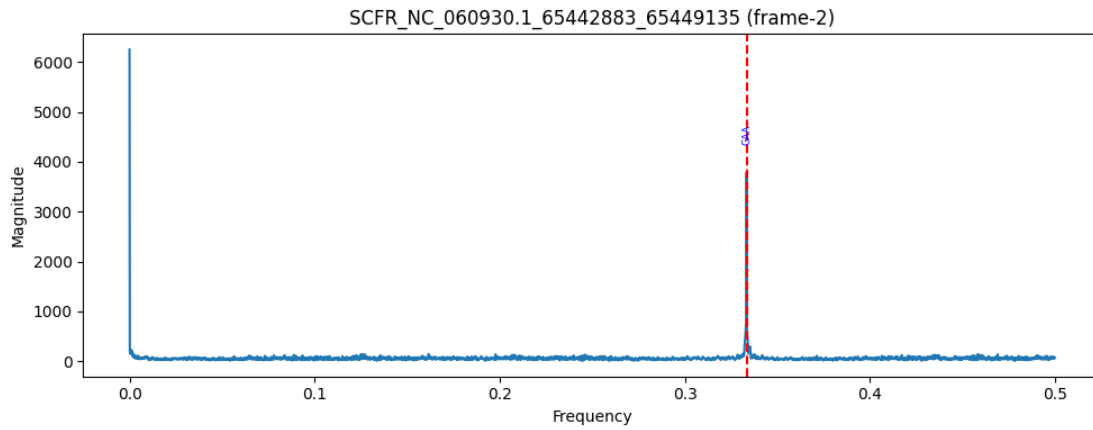


Figure 2: FFT Spectrum for frame-2

Frequency	Motifs
0.333	GAA (1480), AGA (1477), AAG (1472), CAG (478), AGC (476)

1.3 SCFR_NC_060930.1_65442954_65448960

1.3.1 Protein: frame-3

Gene ID: SCFR

Nucleotide Accession: NC_060930.1

Sequence Length: 6006 bp

Protein Description:

Stop-codon-free region (65442954-65448960)

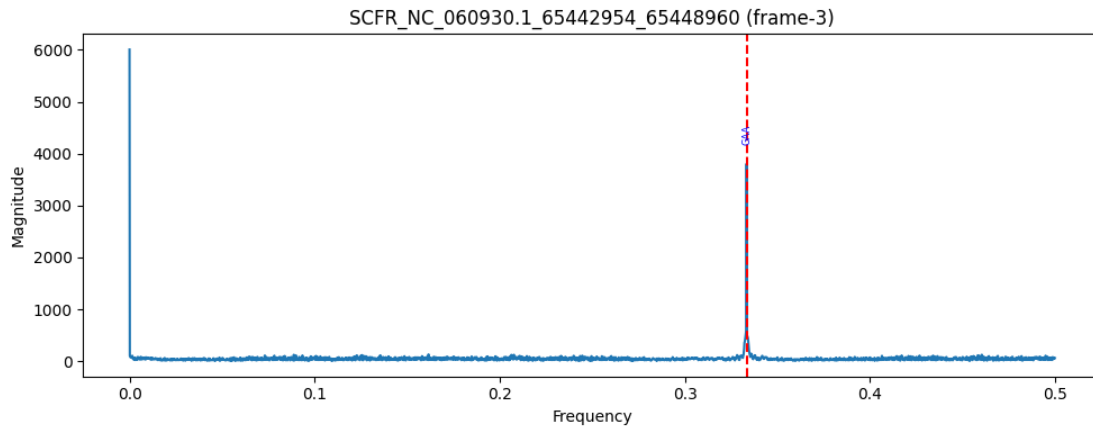


Figure 3: FFT Spectrum for frame-3

Frequency	Motifs
0.333	GAA (1475), AGA (1471), AAG (1469), CAG (470), AGC (469)

2 Group 2: Single Peak Elsewhere

3 Group 3: Multiple Peaks

3.1 SCFR_NC_060930.1_168126875_168132740

3.1.1 Protein: frame3

Gene ID: SCFR

Nucleotide Accession: NC_060930.1

Sequence Length: 5865 bp

Protein Description:

Stop-codon-free region (168126875-168132740)

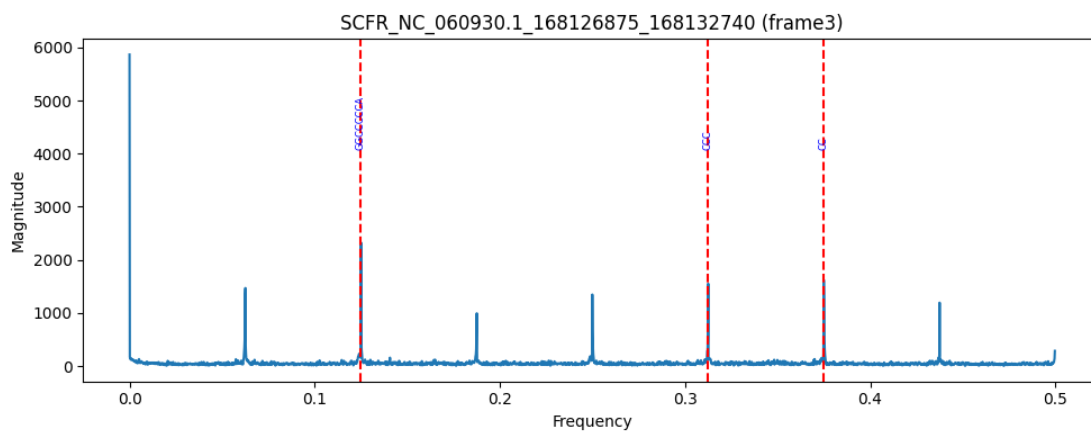


Figure 4: FFT Spectrum for frame3

Frequency	Motifs
0.125	GGCCCCA (331), TCCTCAGG (227), CCTCAGGC (226), CTCAGGCC (226), TCAGGCCC (226)
0.375	CC (1987), TC (849), CT (673), CA (592), GG (510)
0.313	CCC (1114), CTC (631), CCT (516), TCC (370), GGC (353)

3.2 SCFR_NC_060930.1_168126855_168132705

3.2.1 Protein: frame1

Gene ID: SCFR

Nucleotide Accession: NC_060930.1

Sequence Length: 5850 bp

Protein Description:

Stop-codon-free region (168126855-168132705)

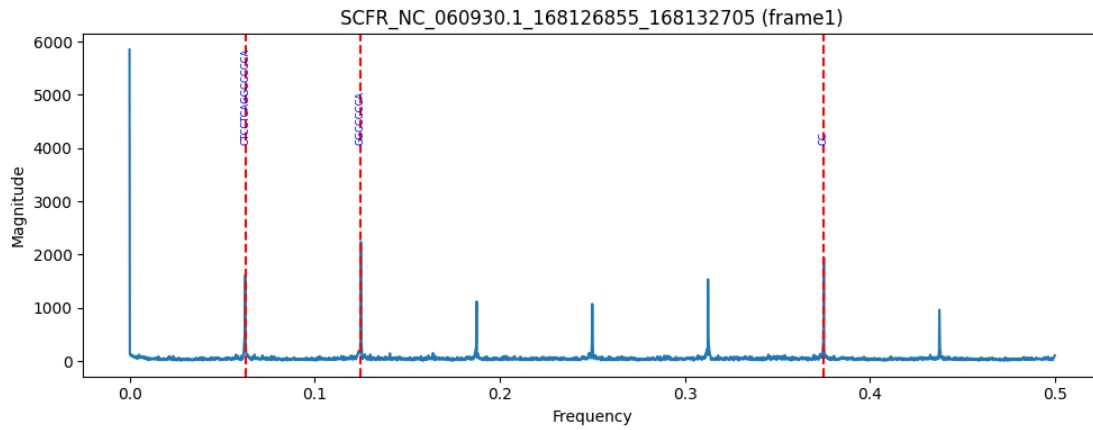


Figure 5: FFT Spectrum for frame1

Frequency	Motifs
0.125	GGCCCCCA (331), TCCTCAGG (227), CTCAGGCC (226), CTCAGGCC (226)
0.375	CC (1989), TC (850), CT (673), CA (592), GG (500)
0.063	CTCCTCAGGCCCCCA (197), GGCCCCACCTCCTC (145), GGCCCCATCTCCTC (135), TCCTCAGG

3.3 SCFR_NC_060930.1_168126778_168132607

3.3.1 Protein: frame2

Gene ID: SCFR
Nucleotide Accession: NC_060930.1
Sequence Length: 5829 bp
Protein Description:
Stop-codon-free region (168126778-168132607)

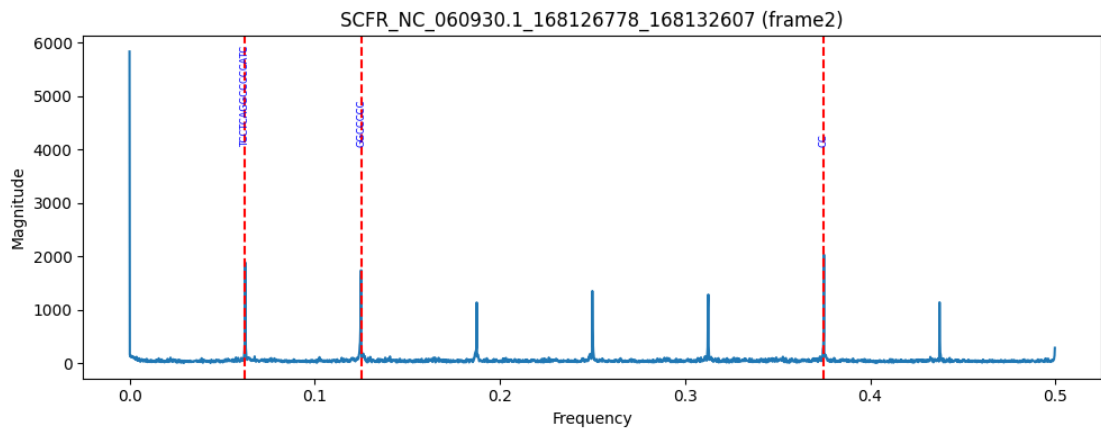


Figure 6: FFT Spectrum for frame2

Frequency	Motifs
0.375	CC (1978), TC (846), CT (663), CA (591), GG (498)
0.062	TCCTCAGGCCCCCATC (119), CTCCTCAGGCCCCCAT (116), CACCTCCTCAGGCCCC (108), ACCTC
0.125	GGCCCCC (336), GCCCCCA (331), TCCTCAG (227), CCTCAGG (227)

3.4 SCFR_NC_060930.1_171253508_171258662

3.4.1 Protein: frame-1

Gene ID: SCFR

Nucleotide Accession: NC_060930.1

Sequence Length: 5154 bp

Protein Description:

Stop-codon-free region (171253508-171258662)

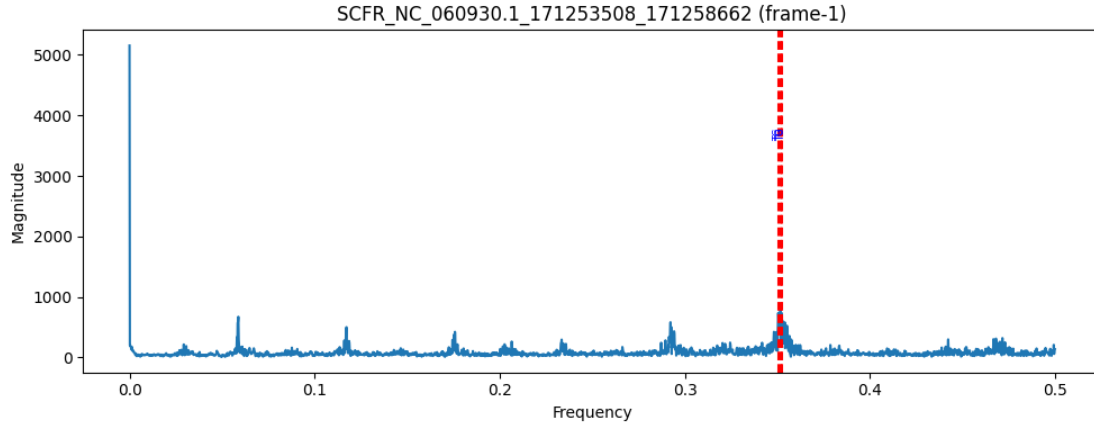


Figure 7: FFT Spectrum for frame-1

Frequency	Motifs
0.352	TG (1261), GA (876), GG (835), AT (707), GT (581)
0.35	TG (1261), GA (876), GG (835), AT (707), GT (581)
0.352	TG (1261), GA (876), GG (835), AT (707), GT (581)