

Fourier Spectral Analysis of Coding Sequences

Automated Report

November 20, 2025

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1 Group 1: Single Peak at 0.33

2 Group 2: Single Peak Elsewhere

3 Group 3: Multiple Peaks

3.1 SCFR_NC_060941.1_6087888_6094167

3.1.1 Protein: frame-1

Gene ID: SCFR

Nucleotide Accession: NC_060941.1

Sequence Length: 6279 bp

Protein Description:

Stop-codon-free region (6087888-6094167)

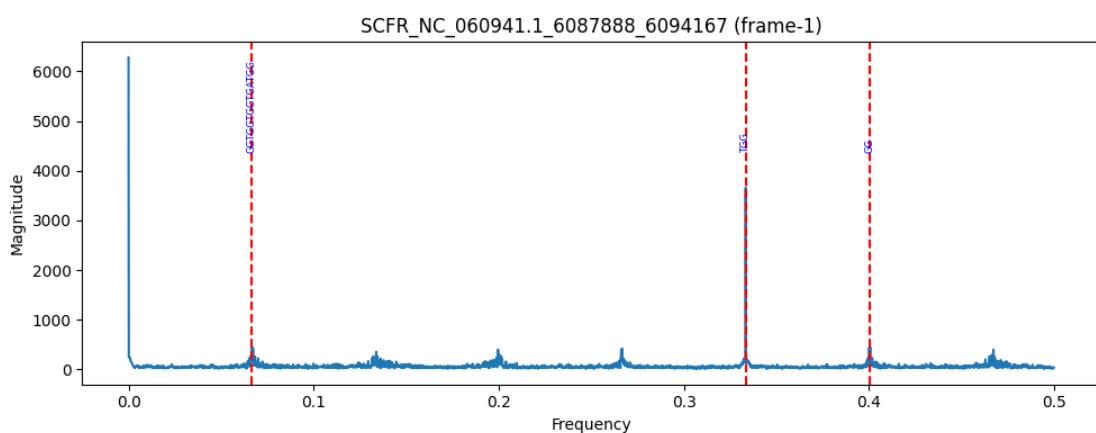


Figure 1: FFT Spectrum for frame-1

Frequency	Motifs
0.333	TGG (1154), GGT (1145), GTG (1145), GGG (681), ATG (484)
0.401	GG (1983), TG (1643), GT (1162), GA (636), AT (491)
0.067	GGTGGTGATGG (285), TGGTGATGGGGGTG (214), GGTGATGGGGGTGG (161), GTGATGGGC

3.2 SCFR_NC_060941.1_81645697_81650701

3.2.1 Protein: frame-3

Gene ID: SCFR

Nucleotide Accession: NC_060941.1

Sequence Length: 5004 bp

Protein Description:

Stop-codon-free region (81645697-81650701)

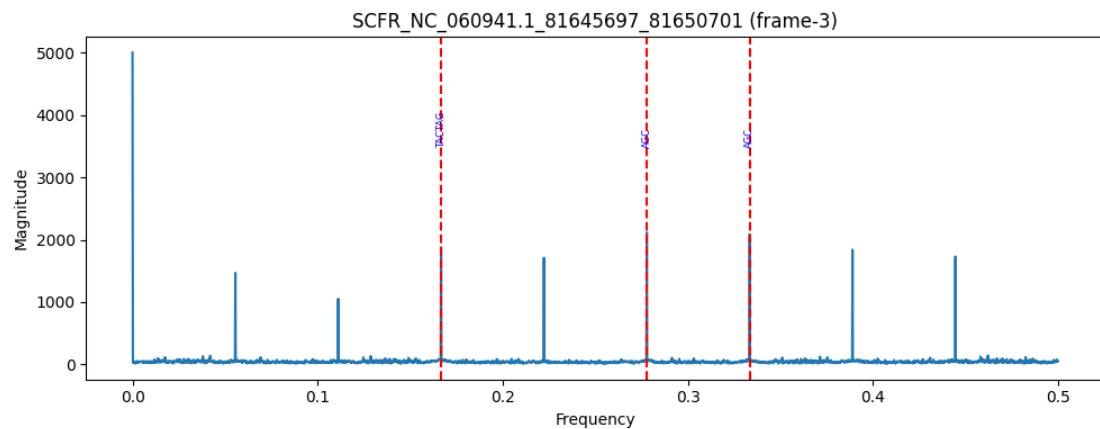


Figure 2: FFT Spectrum for frame-3

Frequency	Motifs
0.278	AGC (418), CTA (417), CTG (398), ACT (380), CCT (275)
0.333	AGC (418), CTA (417), CTG (398), ACT (380), CCT (275)
0.167	TACTAG (249), CTAGCA (249), ACTAGC (248), TAGCAC (241), CCTGGC (165)

3.3 SCFR_NC_060941.1_6087991_6094060

3.3.1 Protein: frame-3

Gene ID: SCFR

Nucleotide Accession: NC_060941.1

Sequence Length: 6069 bp

Protein Description:

Stop-codon-free region (6087991-6094060)

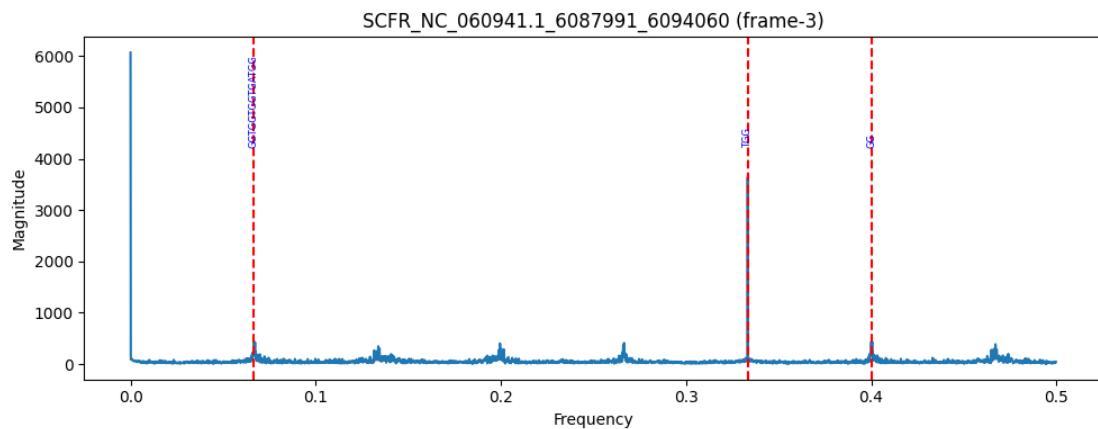


Figure 3: FFT Spectrum for frame-3

Frequency	Motifs
0.333	TGG (1149), GGT (1142), GTG (1142), GGG (673), ATG (480)
0.067	GGTGGTGATGG (285), TGGTGATGGGGGTG (214), GGTGATGGGGGTGG (161), GTGATGGGG
0.401	GG (1963), TG (1628), GT (1154), GA (622), AT (482)

3.4 SCFR_NC_060941.1_6087832_6094120

3.4.1 Protein: frame2

Gene ID: SCFR

Nucleotide Accession: NC_060941.1

Sequence Length: 6288 bp

Protein Description:

Stop-codon-free region (6087832-6094120)

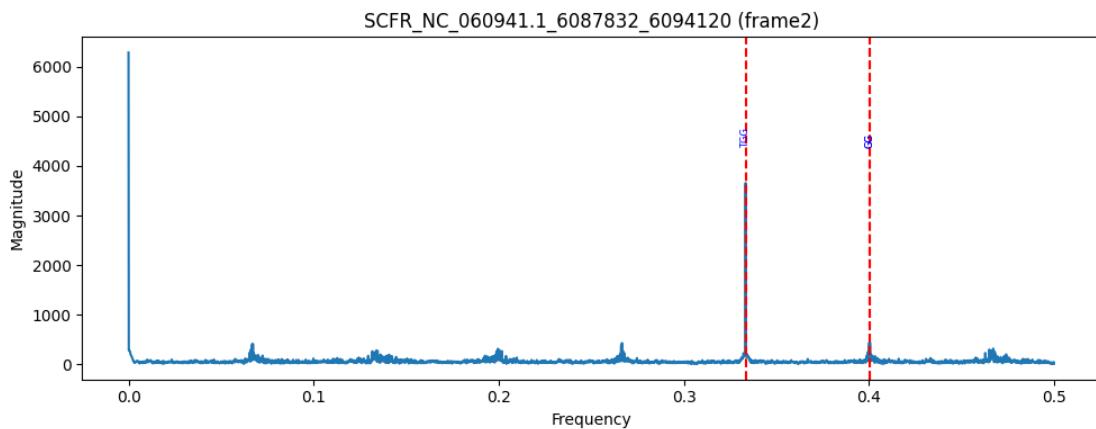


Figure 4: FFT Spectrum for frame2

Frequency	Motifs
0.333	TGG (1152), GGT (1145), GTG (1144), GGG (679), ATG (485)
0.4	GG (1980), TG (1640), GT (1161), GA (637), AT (492)
0.401	GG (1980), TG (1640), GT (1161), GA (637), AT (492)

3.5 SCFR_NC_060941.1_6088040_6094049

3.5.1 Protein: frame-2

Gene ID: SCFR

Nucleotide Accession: NC_060941.1

Sequence Length: 6009 bp

Protein Description:

Stop-codon-free region (6088040-6094049)

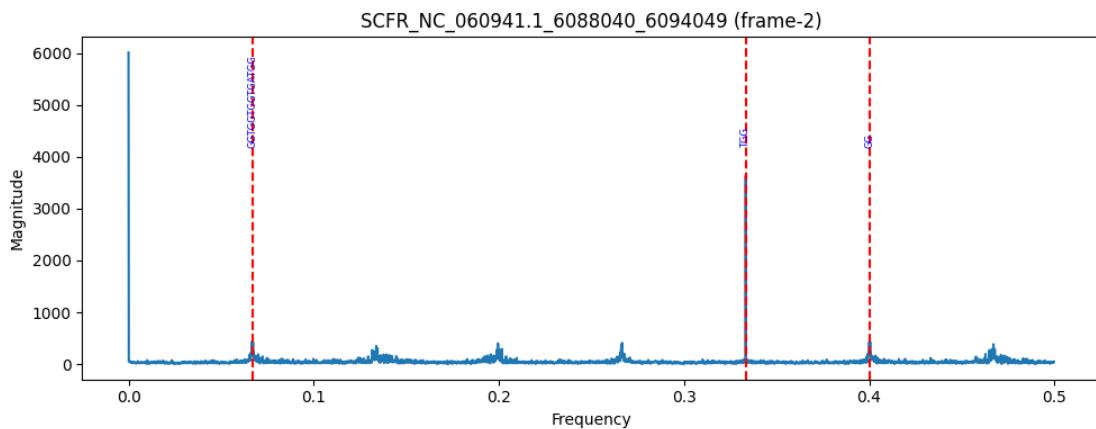


Figure 5: FFT Spectrum for frame-2

Frequency	Motifs
0.333	TGG (1146), GGT (1142), GTG (1142), GGG (669), GAT (477)
0.067	GGTGGTGATGG (285), TGGTGATGGGGGTG (214), GGTGATGGGGGTGG (161), GTGATGGGG
0.4	GG (1954), TG (1624), GT (1154), GA (619), AT (477)

3.6 SCFR_NC_060941.1_6088041_6094404

3.6.1 Protein: frame1

Gene ID: SCFR

Nucleotide Accession: NC_060941.1

Sequence Length: 6363 bp

Protein Description:

Stop-codon-free region (6088041-6094404)

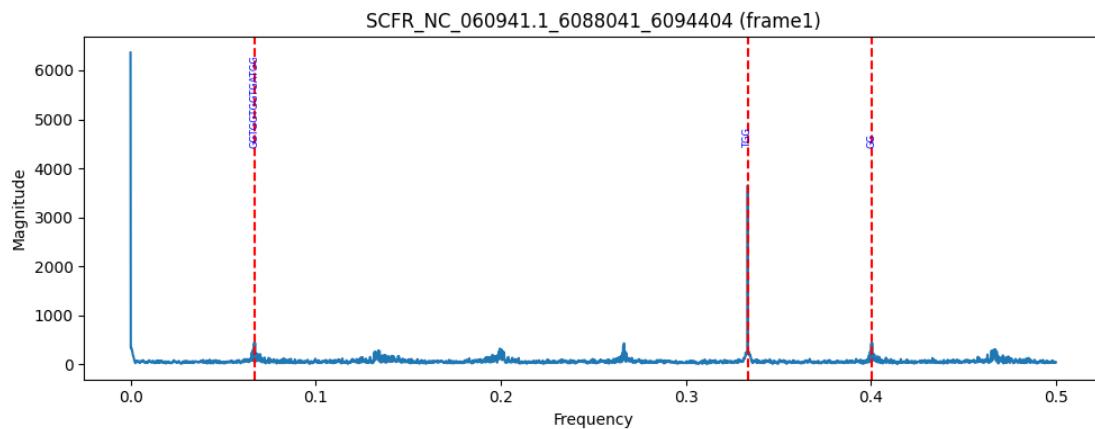


Figure 6: FFT Spectrum for frame1

Frequency	Motifs
0.333	TGG (1157), GGT (1146), GTG (1146), GGG (673), ATG (483)
0.4	GG (1972), TG (1654), GT (1170), GA (630), AT (498)
0.067	GGTGGTGATGG (285), TGGTGATGGGGGTG (214), GGTGATGGGGGTGG (161), GTGATGGGG