

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_060947.1_359918_366206

3.1.1 Protein: frame3

Gene ID: SCFR

Nucleotide Accession: NC_060947.1

Sequence Length: 6288 bp

Protein Description:

Stop-codon-free region (359918-366206)

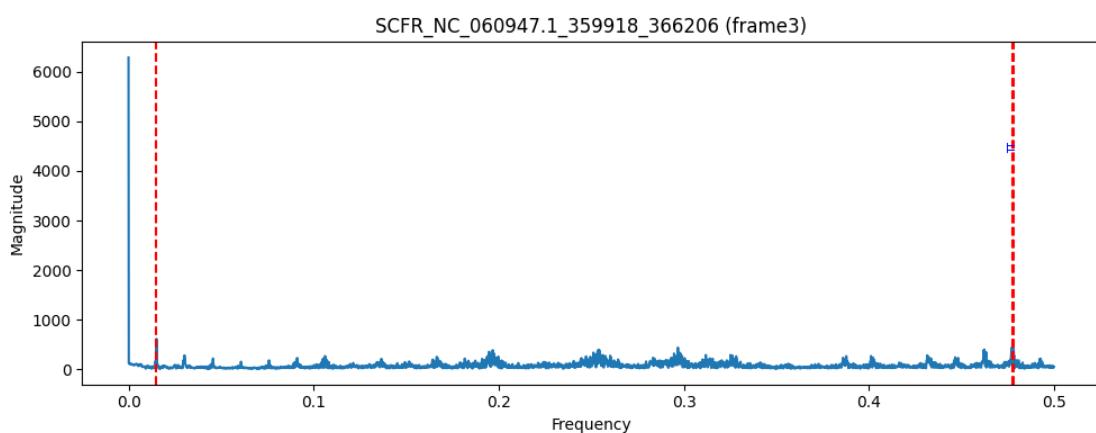


Figure 1: FFT Spectrum for frame3

Frequency	Motifs
0.478	TT (1822), TC (1733), CT (1650), CC (653), AT (172)
0.478	TT (1822), TC (1733), CT (1650), CC (653), AT (172)

3.2 SCFR_NC_060947.1_151659219_151665822

3.2.1 Protein: frame1

Gene ID: SCFR

Nucleotide Accession: NC_060947.1

Sequence Length: 6603 bp

Protein Description:

Stop-codon-free region (151659219-151665822)

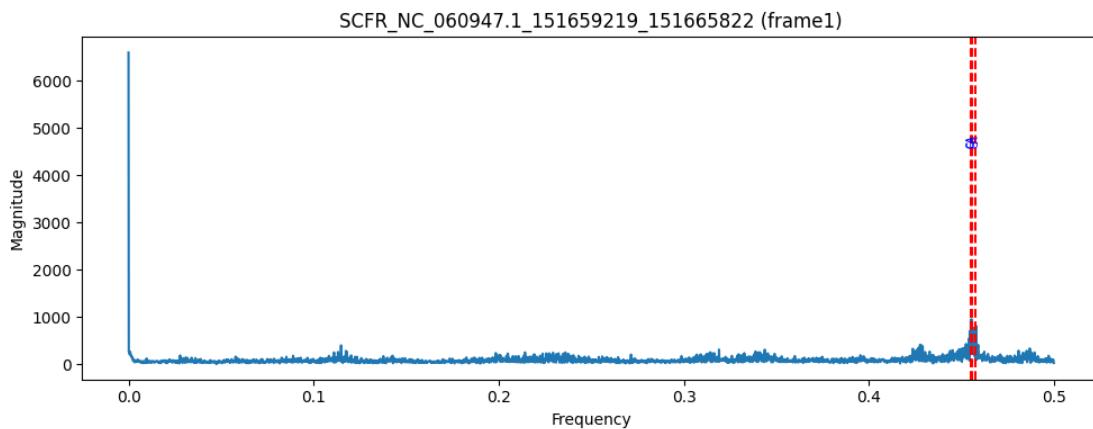


Figure 2: FFT Spectrum for frame1

Frequency	Motifs
0.455	CA (2393), AC (2157), CC (594), GC (371), AT (255)
0.455	CA (2393), AC (2157), CC (594), GC (371), AT (255)
0.458	CA (2393), AC (2157), CC (594), GC (371), AT (255)

3.3 SCFR_NC_060947.1_3253016_3259088

3.3.1 Protein: frame-3

Gene ID: SCFR

Nucleotide Accession: NC_060947.1

Sequence Length: 6072 bp

Protein Description:

Stop-codon-free region (3253016-3259088)

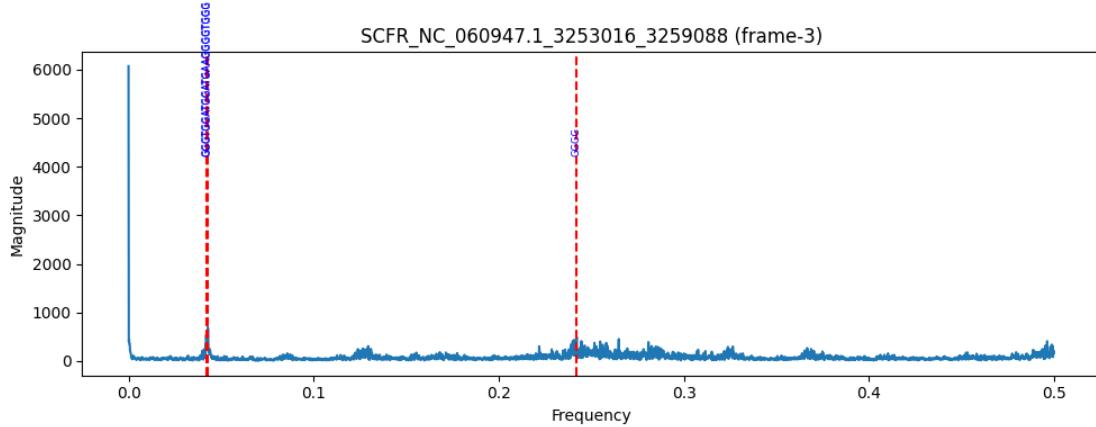


Figure 3: FFT Spectrum for frame-3

Frequency	
0.043	GGGTGGATGGATGAAGGGGTGGG (180), GGGGTGGATGGATGAAGGGGTGG (179), GGGGGTGG
0.042	GGGTGGATGGATGAAGGGGTGGG (180), GGGGTGGATGGATGAAGGGGTGG (179), GGGGGTGG
0.242	GGGG (891), GATG (487)

3.4 SCFR_NC_060947.1_359745_366177

3.4.1 Protein: frame1

Gene ID: SCFR

Nucleotide Accession: NC_060947.1

Sequence Length: 6432 bp

Protein Description:

Stop-codon-free region (359745-366177)

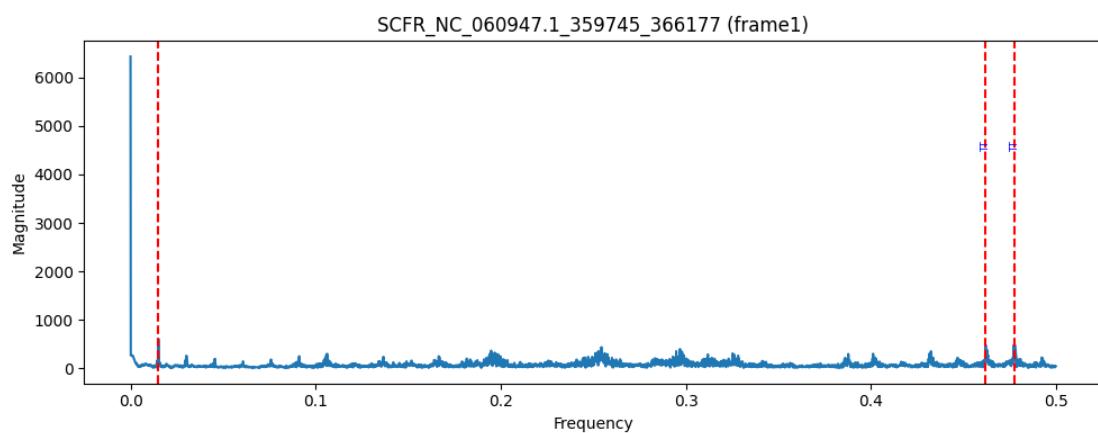


Figure 4: FFT Spectrum for frame1

Frequency	Motifs
0.462	TT (1829), TC (1734), CT (1657), CC (653), AT (178)
0.478	TT (1829), TC (1734), CT (1657), CC (653), AT (178)

3.5 SCFR_NC_060947.1_3253387_3259066

3.5.1 Protein: frame-1

Gene ID: SCFR

Nucleotide Accession: NC_060947.1

Sequence Length: 5679 bp

Protein Description:

Stop-codon-free region (3253387-3259066)

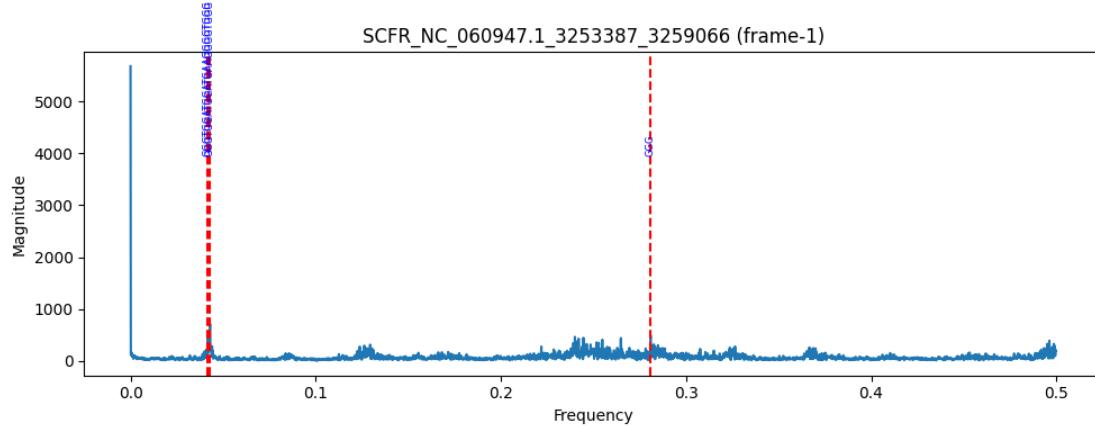


Figure 5: FFT Spectrum for frame-1

Frequency	
0.043	GGGTGGATGGATGAAGGGGTGGG (180), GGGGTGGATGGATGAAGGGGTGG (179), GGGGGTGGA
0.281	GGG (1371), TGG (72)
0.042	GGGTGGATGGATGAAGGGGTGGG (180), GGGGTGGATGGATGAAGGGGTGG (179), GGGGGTGGA

3.6 SCFR_NC_060947.1_74174571_74180871

3.6.1 Protein: frame-2

Gene ID: SCFR

Nucleotide Accession: NC_060947.1

Sequence Length: 6300 bp

Protein Description:

Stop-codon-free region (74174571-74180871)

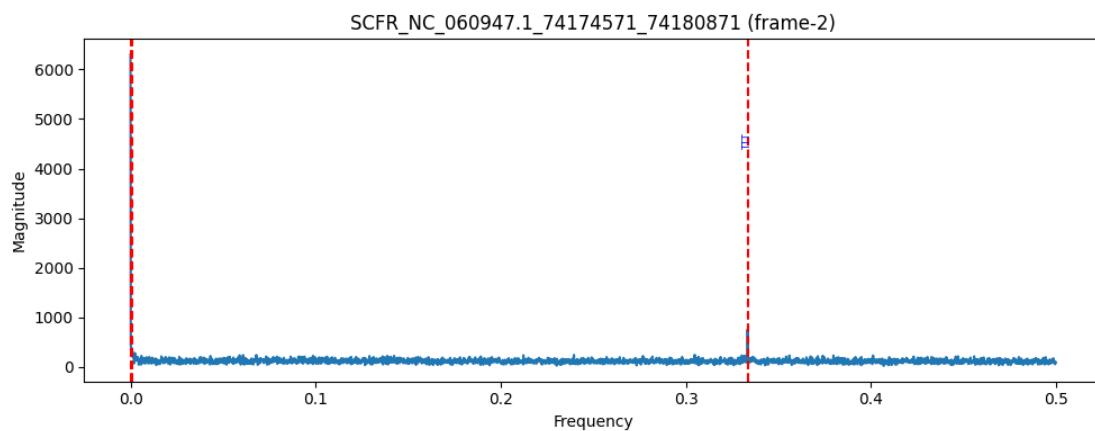


Figure 6: FFT Spectrum for frame-2

Frequency	Motifs
0.333	TTT (321), TTC (215), CTT (211), TCT (204), TCA (164)

3.7 SCFR_NC_060947.1_7722679_7734679

3.7.1 Protein: frame2

Gene ID: SCFR

Nucleotide Accession: NC_060947.1

Sequence Length: 12000 bp

Protein Description:

Stop-codon-free region (7722679-7734679)

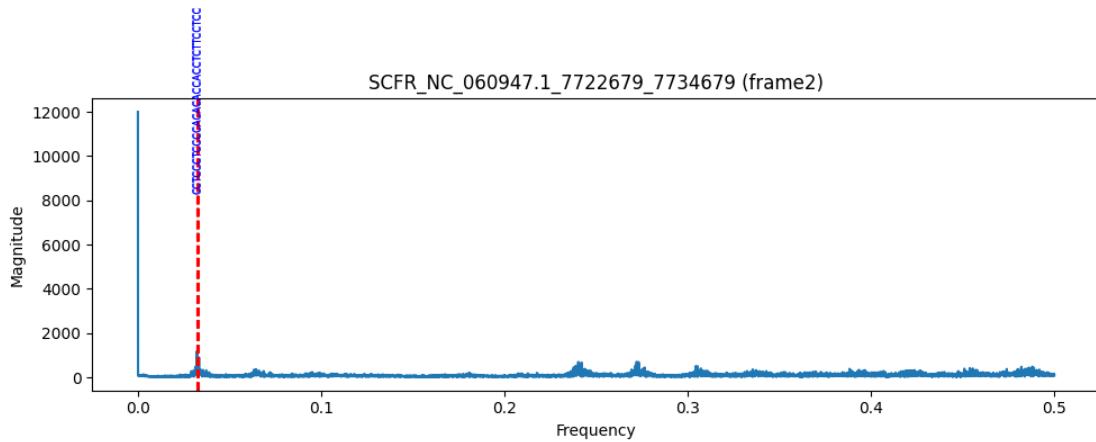


Figure 7: FFT Spectrum for frame2

Frequency	
0.033	CCTCCCTCCCCACACACCACCTCTTCCTCC (157), CCTCCCTCCCTCCCCACACACCACCTCTTC (157), CCTCCCTCCCTCCCCACACACCACCTCTTC (157)
0.032	CCTCCCTCCCCACACACCACCTCTTCCTCC (157), CCTCCCTCCCTCCCCACACACCACCTCTTC (157), CCTCCCTCCCTCCCCACACACCACCTCTTC (157)

3.8 SCFR_NC_060947.1_3253152_3259275

3.8.1 Protein: frame-2

Gene ID: SCFR

Nucleotide Accession: NC_060947.1

Sequence Length: 6123 bp

Protein Description:

Stop-codon-free region (3253152-3259275)

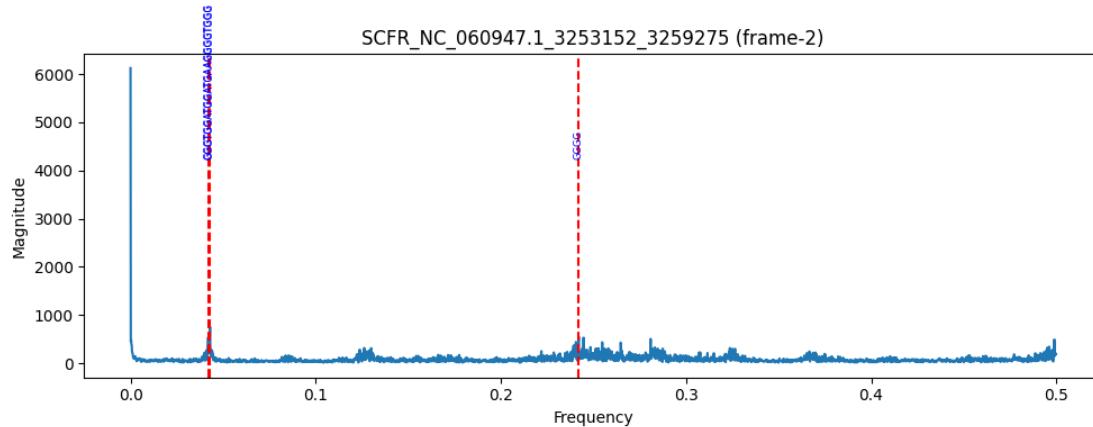


Figure 8: FFT Spectrum for frame-2

Frequency	
0.043	GGGTGGATGGATGAAGGGGTGGG (180), GGGGTGGATGGATGAAGGGGTGG (179), GGGGGTGGG GGGG (891), GATG (484)
0.242	
0.042	GGGTGGATGGATGAAGGGGTGGG (180), GGGGTGGATGGATGAAGGGGTGG (179), GGGGGTGGG

3.9 SCFR_NC_060947.1_7722645_7734708

3.9.1 Protein: frame1

Gene ID: SCFR

Nucleotide Accession: NC_060947.1

Sequence Length: 12063 bp

Protein Description:

Stop-codon-free region (7722645-7734708)

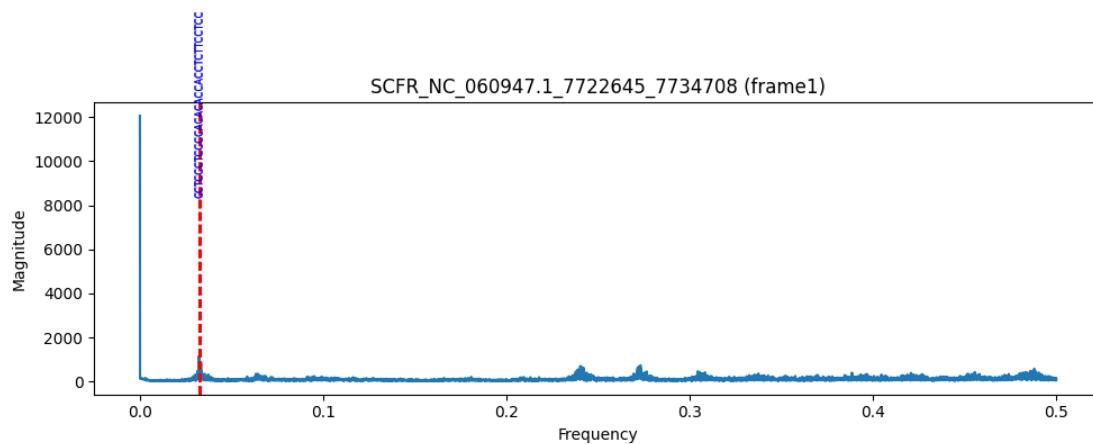


Figure 9: FFT Spectrum for frame1

Frequency	
0.032	CCTCCCTCCCCACACACCACCTCTTCCTCC (157), CCTCCCTCCCTCCCCACACACCACCTCTTC (157)
0.033	CCTCCCTCCCCACACACCACCTCTTCCTCC (157), CCTCCCTCCCTCCCCACACACCACCTCTTC (157)

3.10 SCFR_NC_060947.1_151389693_151396119

3.10.1 Protein: frame-2

Gene ID: SCFR

Nucleotide Accession: NC_060947.1

Sequence Length: 6426 bp

Protein Description:

Stop-codon-free region (151389693-151396119)

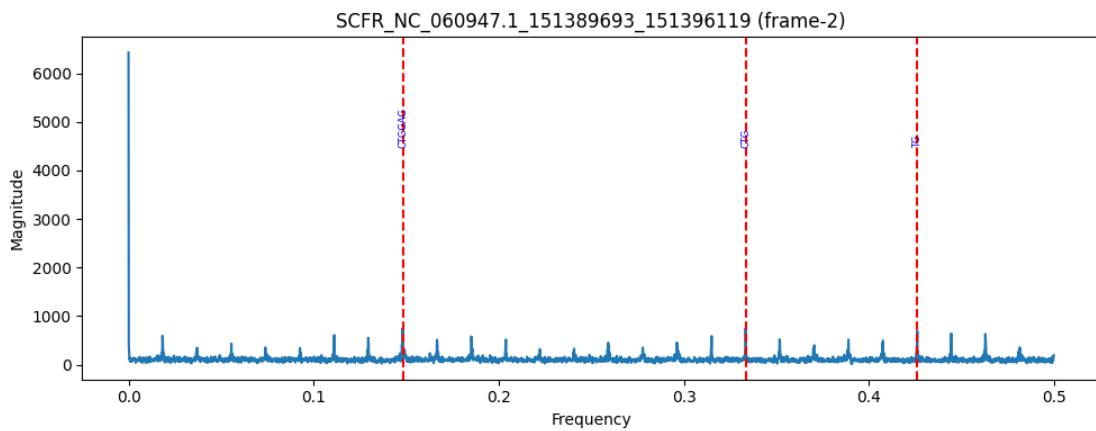


Figure 10: FFT Spectrum for frame-2

Frequency	Motifs
0.148	CTGGAG (56), TGGAGT (55), CCTGGA (53), CAATGG (53), GCAATG (52)
0.333	CTG (276), CCT (254), TGG (219), GCA (210), GGC (206)
0.426	TG (678), GG (643), GC (608), CC (581), CT (496)

3.11 SCFR_NC_060947.1_359725_366202

3.11.1 Protein: frame2

Gene ID: SCFR

Nucleotide Accession: NC_060947.1

Sequence Length: 6477 bp

Protein Description:

Stop-codon-free region (359725-366202)

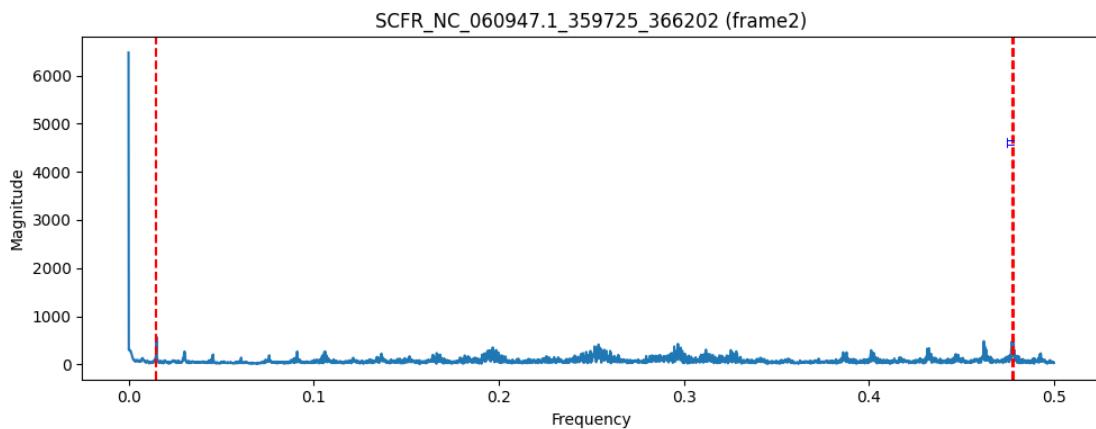


Figure 11: FFT Spectrum for frame2

Frequency	Motifs
0.478	TT (1830), TC (1739), CT (1663), CC (659), AT (179)
0.478	TT (1830), TC (1739), CT (1663), CC (659), AT (179)

3.12 SCFR_NC_060947.1_151659503_151665851

3.12.1 Protein: frame3

Gene ID: SCFR

Nucleotide Accession: NC_060947.1

Sequence Length: 6348 bp

Protein Description:

Stop-codon-free region (151659503-151665851)

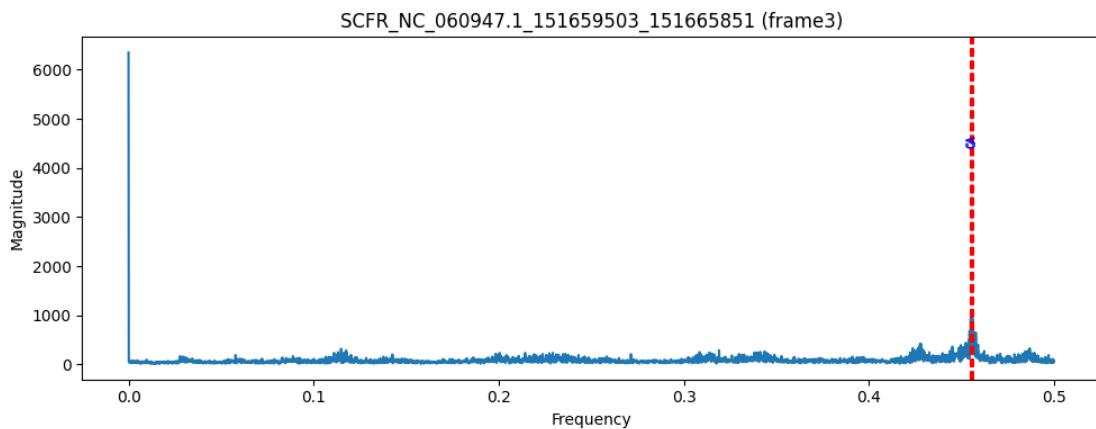


Figure 12: FFT Spectrum for frame3

Frequency	Motifs
0.455	CA (2375), AC (2152), CC (572), GC (346), AT (250)
0.455	CA (2375), AC (2152), CC (572), GC (346), AT (250)
0.456	CA (2375), AC (2152), CC (572), GC (346), AT (250)

3.13 SCFR_NC_060947.1_151659493_151665865

3.13.1 Protein: frame2

Gene ID: SCFR

Nucleotide Accession: NC_060947.1

Sequence Length: 6372 bp

Protein Description:

Stop-codon-free region (151659493-151665865)

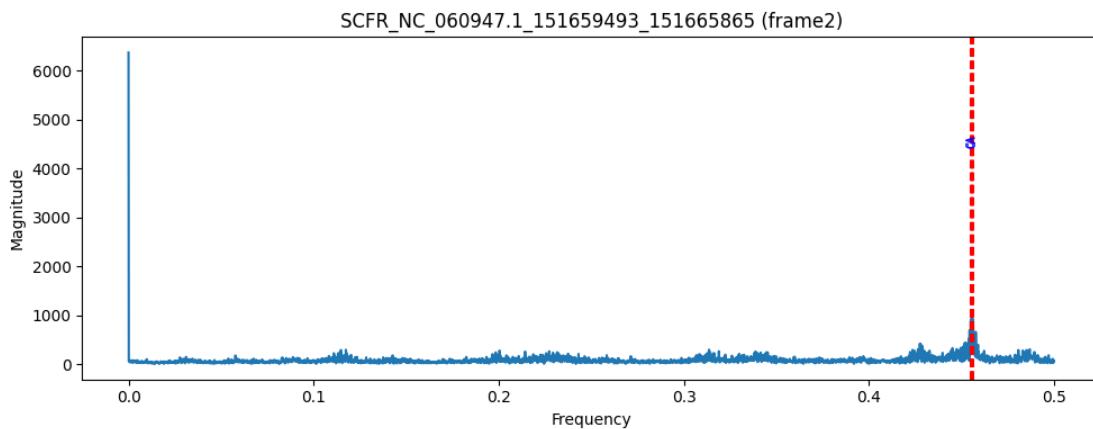


Figure 13: FFT Spectrum for frame2

Frequency	Motifs
0.455	CA (2377), AC (2155), CC (575), GC (348), AT (250)
0.456	CA (2377), AC (2155), CC (575), GC (348), AT (250)
0.455	CA (2377), AC (2155), CC (575), GC (348), AT (250)

3.14 SCFR_NC_060947.1_7724006_7730822

3.14.1 Protein: frame-3

Gene ID: SCFR

Nucleotide Accession: NC_060947.1

Sequence Length: 6816 bp

Protein Description:

Stop-codon-free region (7724006-7730822)

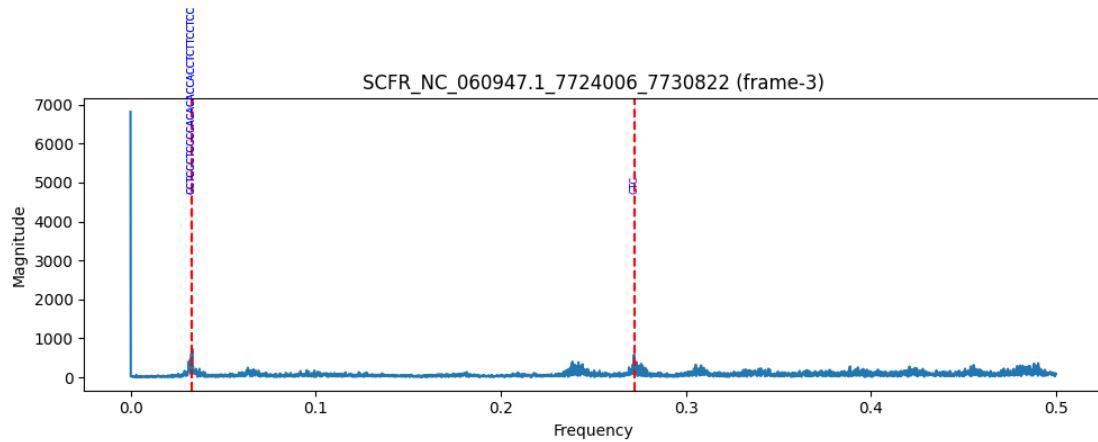


Figure 14: FFT Spectrum for frame-3

Frequency	
0.033	CCTCCCTCCCCACACACCACCTCTTCCTCC (87), CCTCTTCCCTCCCTCCCTCCCTCCCCACACA (86)
0.033	CCTCCCTCCCCACACACCACCTCTTCCTCC (87), CCTCTTCCCTCCCTCCCTCCCTCCCCACACA (86)
0.272	CT