

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.060928.1.169925808.169937574	2
3.1.1	Protein: frame-3	2
3.2	SCFR_NC.060928.1.40264093.40269565	3
3.2.1	Protein: frame2	3
3.3	SCFR_NC.060928.1.40264043.40269398	4
3.3.1	Protein: frame3	4
3.4	SCFR_NC.060928.1.40264149.40269732	5
3.4.1	Protein: frame1	5
3.5	SCFR_NC.060928.1.169925786.169936622	6
3.5.1	Protein: frame-1	6
3.6	SCFR_NC.060928.1.192585953.192591416	7
3.6.1	Protein: frame-1	7
3.7	SCFR_NC.060928.1.7835832.7842624	8
3.7.1	Protein: frame1	8
3.8	SCFR_NC.060928.1.169929235.169935583	9
3.8.1	Protein: frame2	9

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

3.1 SCFR_NC_060928.1_169925808_169937574

3.1.1 Protein: frame-3

Gene ID: SCFR

Nucleotide Accession: NC_060928.1

Sequence Length: 11766 bp

Protein Description:

Stop-codon-free region (169925808-169937574)

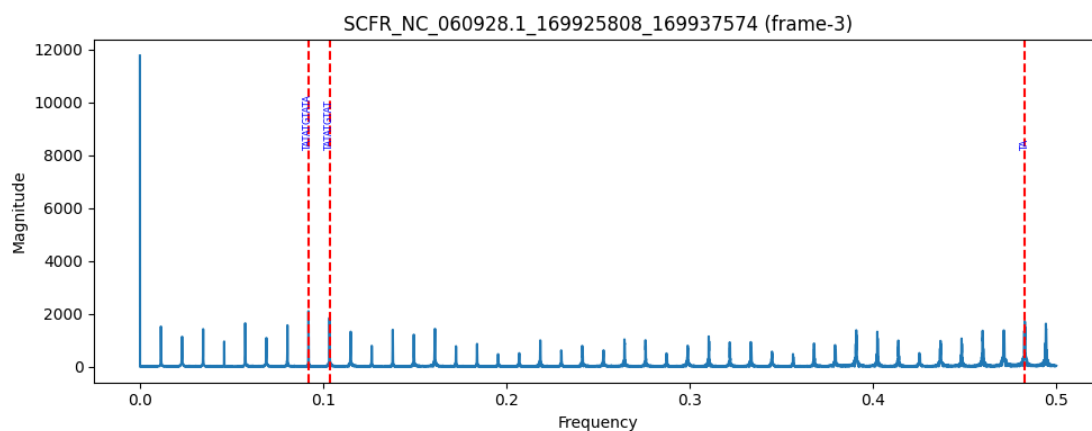


Figure 1: FFT Spectrum for frame-3

Frequency	Motifs
0.092	TATATGTATA (268), ATGTGTATTT (135), TTTGAAGTAC (135), TTGAAGTACT (135), TGAAGTACT (135)
0.103	TATATGTAT (268), ATATGTATA (268), TGTATATAT (267), TATATATGT (267), ATGTGTATT (135)
0.483	TA (2377), AT (1890), GT (1704), TG (1485), TT (1082)

3.2 SCFR_NC_060928.1_40264093_40269565

3.2.1 Protein: frame2

Gene ID: SCFR

Nucleotide Accession: NC_060928.1

Sequence Length: 5472 bp

Protein Description:

Stop-codon-free region (40264093-40269565)

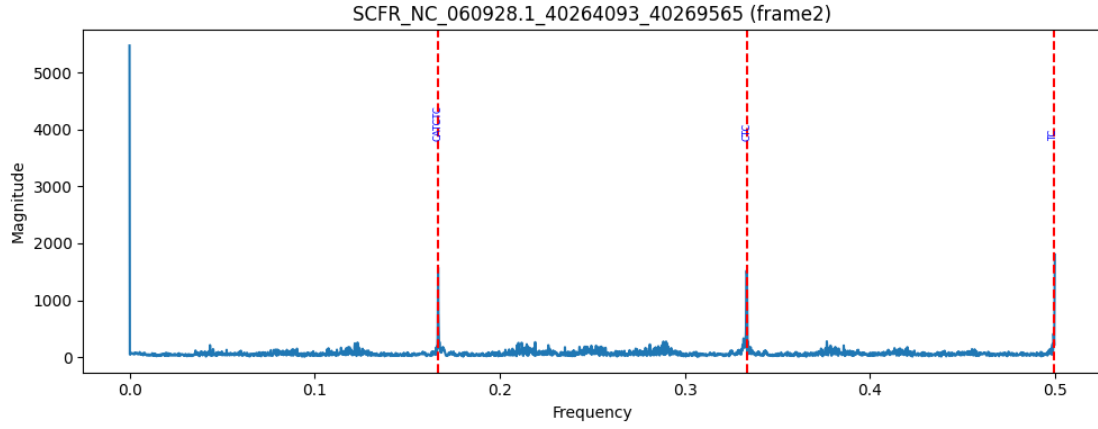


Figure 2: FFT Spectrum for frame2

Frequency	Motifs
0.167	CATCTC (531), CCATCT (515), CTCCAT (514), TCCATC (513), TCTCCA (359)
0.333	CTC (822), TCT (811), TCC (626), CCA (619), CAT (576)
0.499	TC (1458), CT (1099), CC (914), CA (666), AT (607)

3.3 SCFR_NC_060928.1_40264043_40269398

3.3.1 Protein: frame3

Gene ID: SCFR

Nucleotide Accession: NC_060928.1

Sequence Length: 5355 bp

Protein Description:

Stop-codon-free region (40264043-40269398)

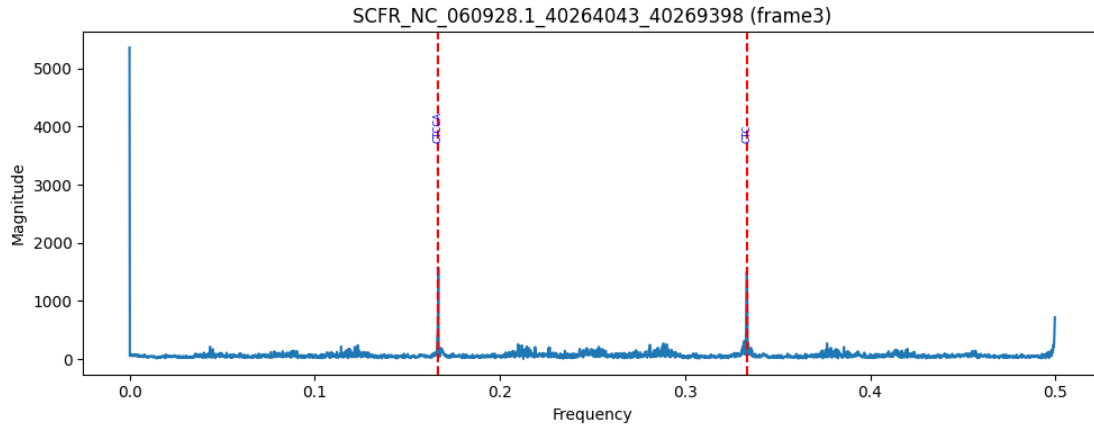


Figure 3: FFT Spectrum for frame3

Frequency	Motifs
0.167	CTCCA (564), ATCTC (541), CATCT (535), TCCAT (530), CCATC (506)
0.333	CTC (802), TCT (790), TCC (612), CCA (605), CAT (564)

3.4 SCFR_NC_060928.1_40264149_40269732

3.4.1 Protein: frame1

Gene ID: SCFR

Nucleotide Accession: NC_060928.1

Sequence Length: 5583 bp

Protein Description:

Stop-codon-free region (40264149-40269732)

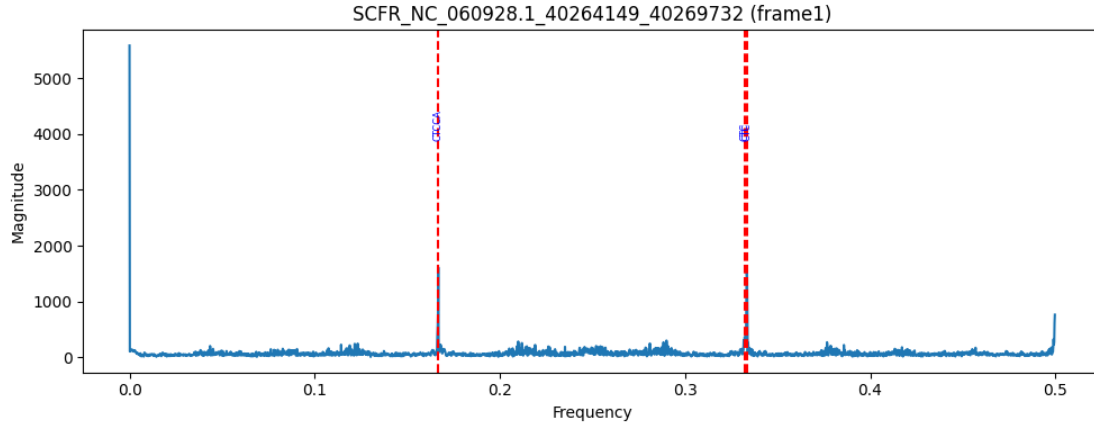


Figure 4: FFT Spectrum for frame1

Frequency	Motifs
0.167	CTCCA (578), ATCTC (551), CATCT (547), TCCAT (541), CCATC (516)
0.333	CTC (825), TCT (818), TCC (629), CCA (618), CAT (577)
0.332	CTC (825), TCT (818), TCC (629), CCA (618), CAT (577)

3.5 SCFR_NC_060928.1_169925786_169936622

3.5.1 Protein: frame-1

Gene ID: SCFR

Nucleotide Accession: NC_060928.1

Sequence Length: 10836 bp

Protein Description:

Stop-codon-free region (169925786-169936622)

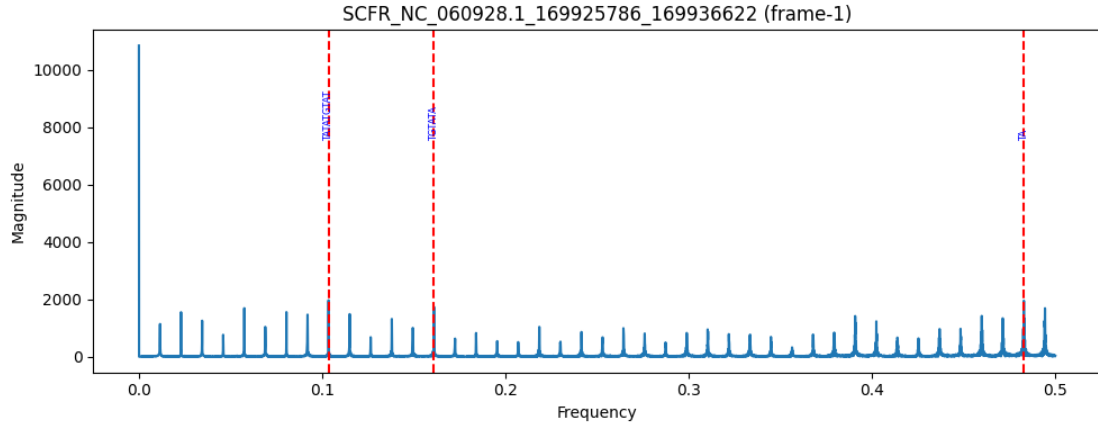


Figure 5: FFT Spectrum for frame-1

Frequency	Motifs
0.103	TATATGTAT (246), ATATGTATA (246), TGTATATAT (246), TATATATGT (246), ATGTGTATT (125)
0.483	TA (2189), AT (1740), GT (1568), TG (1367), TT (1000)
0.161	TGTATA (616), GTATAT (495), TATATG (371), ATATGT (370), TATATA (369)

3.6 SCFR_NC_060928.1_192585953_192591416

3.6.1 Protein: frame-1

Gene ID: SCFR

Nucleotide Accession: NC_060928.1

Sequence Length: 5463 bp

Protein Description:

Stop-codon-free region (192585953-192591416)

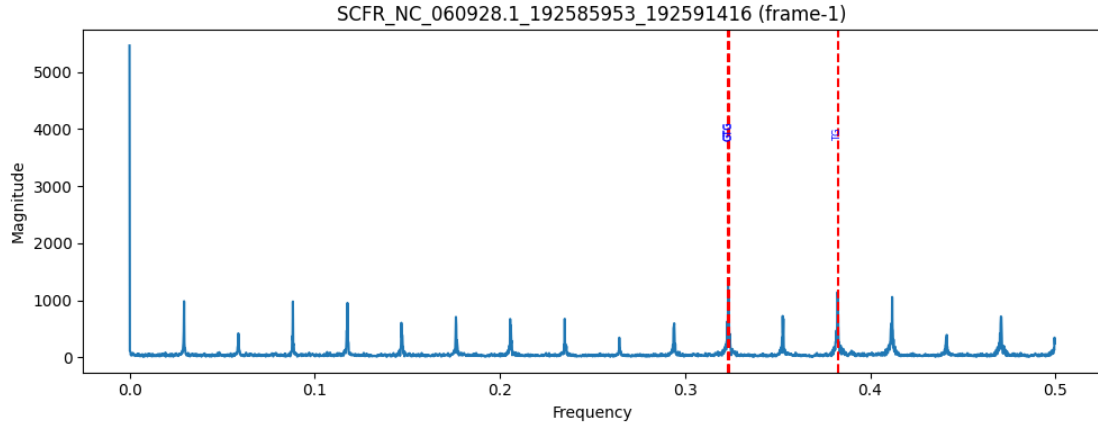


Figure 6: FFT Spectrum for frame-1

Frequency	Motifs
0.323	GTG (776), TGT (542), TGG (479), GGT (476), TTG (384)
0.324	GTG (776), TGT (542), TGG (479), GGT (476), TTG (384)
0.382	TG (1340), GT (1301), TT (620), GG (511), GC (339)

3.7 SCFR_NC_060928.1_7835832_7842624

3.7.1 Protein: frame1

Gene ID: SCFR

Nucleotide Accession: NC_060928.1

Sequence Length: 6792 bp

Protein Description:

Stop-codon-free region (7835832-7842624)

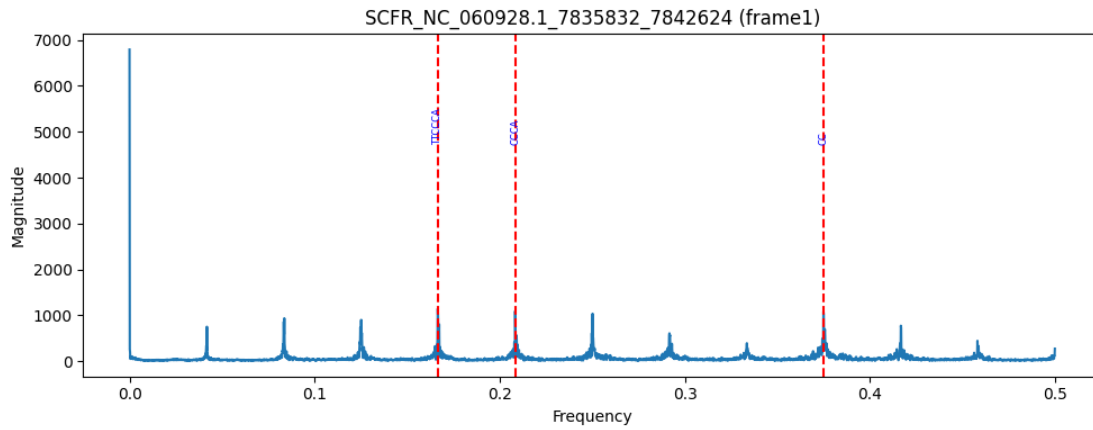


Figure 7: FFT Spectrum for frame1

Frequency	Motifs
0.167	TTCCCA (431), CTTCCC (343), CACAAC (274), CCCAAC (270), TCCCAA (269)
0.208	CCCA (651), CAAC (553), TCCC (541), TTCC (442), CTTC (356)
0.375	CC (1603), CA (1399), AC (1051), TC (822), AA (571)

3.8 SCFR_NC_060928.1_169929235_169935583

3.8.1 Protein: frame2

Gene ID: SCFR

Nucleotide Accession: NC_060928.1

Sequence Length: 6348 bp

Protein Description:

Stop-codon-free region (169929235-169935583)

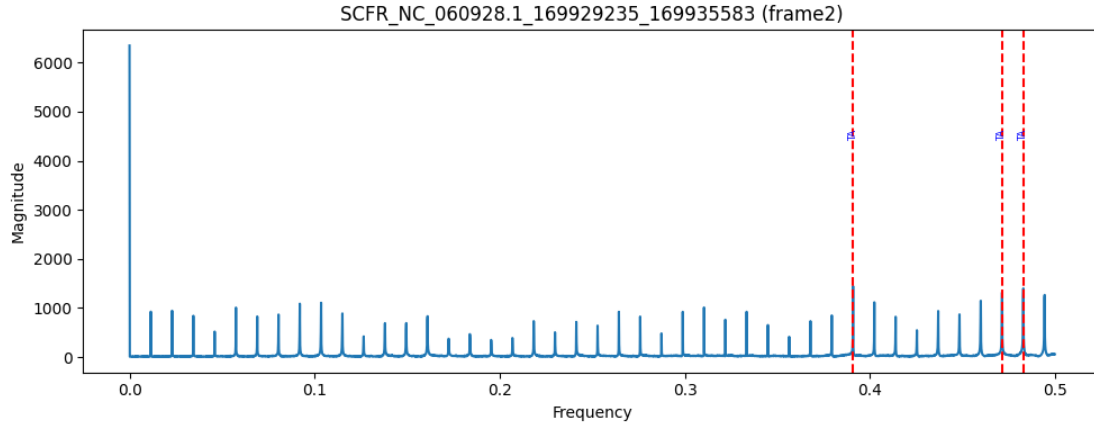


Figure 8: FFT Spectrum for frame2

Frequency	Motifs
0.391	TA (1285), AT (1024), GT (918), TG (802), TT (580)
0.483	TA (1285), AT (1024), GT (918), TG (802), TT (580)
0.471	TA (1285), AT (1024), GT (918), TG (802), TT (580)