

# 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\_060948.1\_374857\_381433

#### 3.1.1 Protein: frame2

Gene ID: SCFR

Nucleotide Accession: NC\_060948.1

Sequence Length: 6576 bp

Protein Description:

Stop-codon-free region (374857-381433)

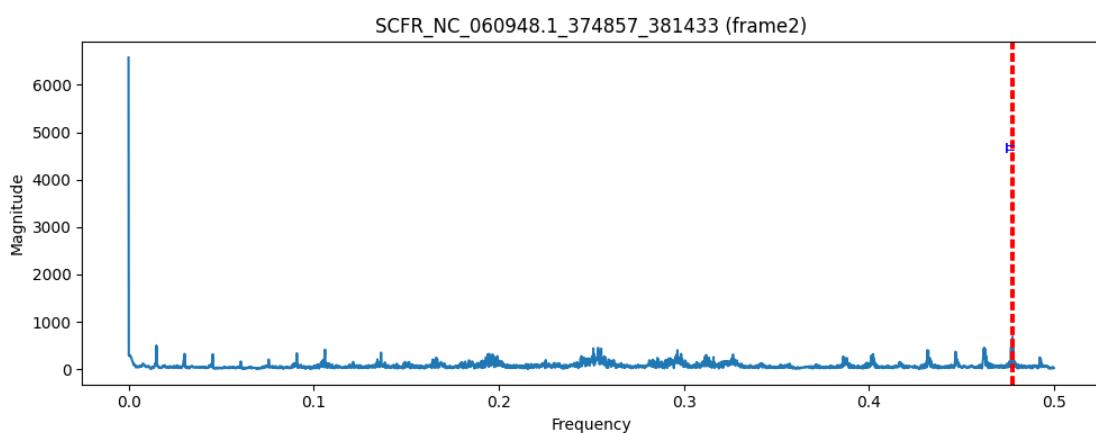


Figure 1: FFT Spectrum for frame2

Frequency	Motifs
0.477	TT (1878), TC (1765), CT (1687), CC (668), AT (180)
0.478	TT (1878), TC (1765), CT (1687), CC (668), AT (180)
0.477	TT (1878), TC (1765), CT (1687), CC (668), AT (180)

## 3.2 SCFR\_NC\_060948.1\_325911\_331452

### 3.2.1 Protein: frame-3

Gene ID: SCFR

Nucleotide Accession: NC\_060948.1

Sequence Length: 5541 bp

Protein Description:

Stop-codon-free region (325911-331452)

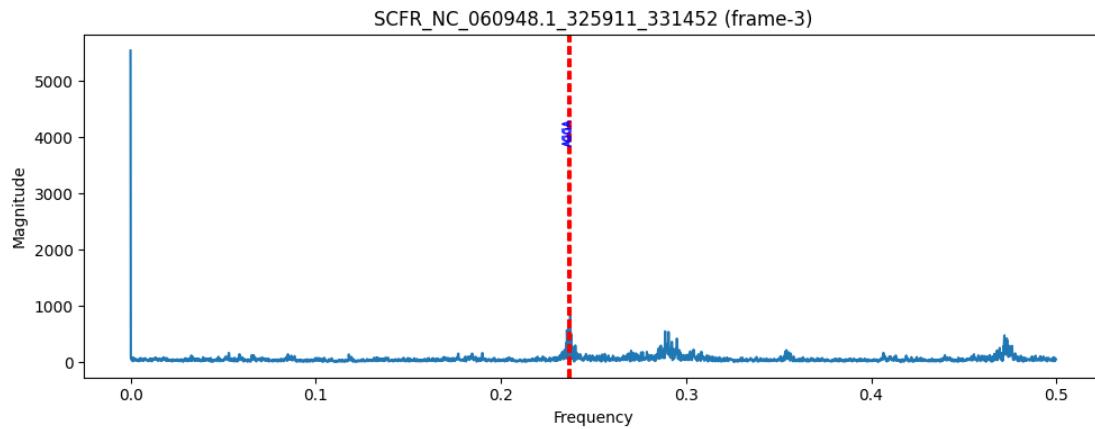


Figure 2: FFT Spectrum for frame-3

Frequency	Motifs
0.238	AGGA (820), GGAG (660), GAGG (646), GAAG (567), GGAA (567)
0.237	AGGA (820), GGAG (660), GAGG (646), GAAG (567), GGAA (567)
0.236	AGGA (820), GGAG (660), GAGG (646), GAAG (567), GGAA (567)

### 3.3 SCFR\_NC\_060948.1\_374877\_381462

#### 3.3.1 Protein: frame1

Gene ID: SCFR

Nucleotide Accession: NC\_060948.1

Sequence Length: 6585 bp

Protein Description:

Stop-codon-free region (374877-381462)

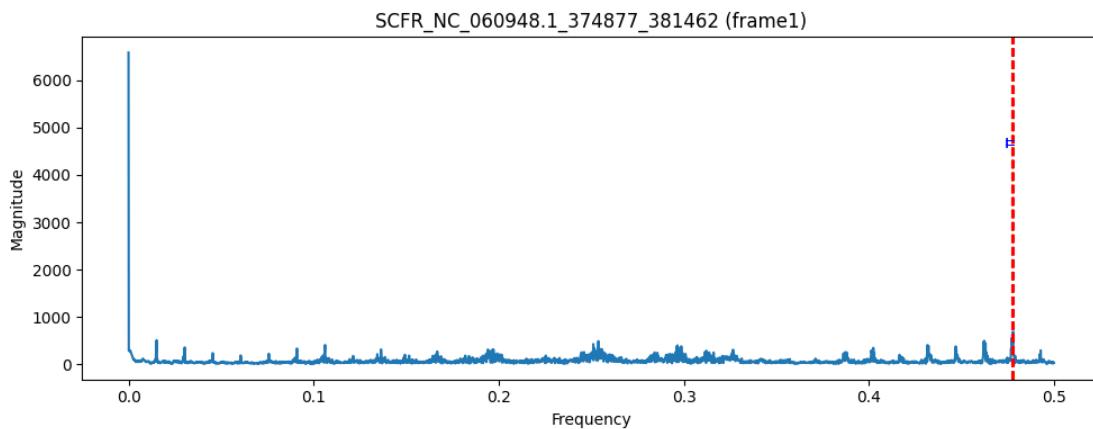


Figure 3: FFT Spectrum for frame1

Frequency	Motifs
0.478	TT (1877), TC (1768), CT (1690), CC (674), AT (181)
0.477	TT (1877), TC (1768), CT (1690), CC (674), AT (181)
0.477	TT (1877), TC (1768), CT (1690), CC (674), AT (181)

### 3.4 SCFR\_NC\_060948.1\_325834\_331447

#### 3.4.1 Protein: frame-2

Gene ID: SCFR

Nucleotide Accession: NC\_060948.1

Sequence Length: 5613 bp

Protein Description:

Stop-codon-free region (325834-331447)

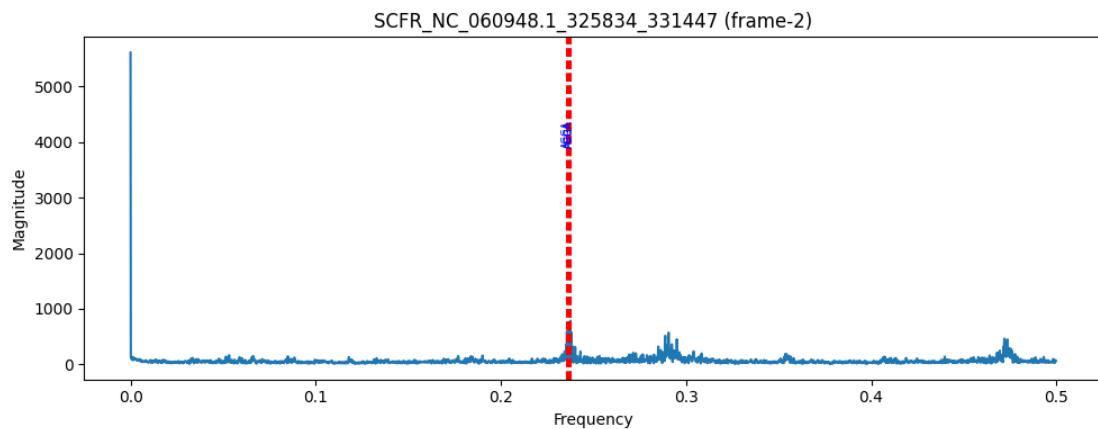


Figure 4: FFT Spectrum for frame-2

Frequency	Motifs
0.237	AGGA (820), GGAG (660), GAGG (646), GAAG (567), GGAA (567)
0.237	AGGA (820), GGAG (660), GAGG (646), GAAG (567), GGAA (567)
0.236	AGGA (820), GGAG (660), GAGG (646), GAAG (567), GGAA (567)

### 3.5 SCFR\_NC\_060948.1\_375050\_381458

#### 3.5.1 Protein: frame3

Gene ID: SCFR

Nucleotide Accession: NC\_060948.1

Sequence Length: 6408 bp

Protein Description:

Stop-codon-free region (375050-381458)

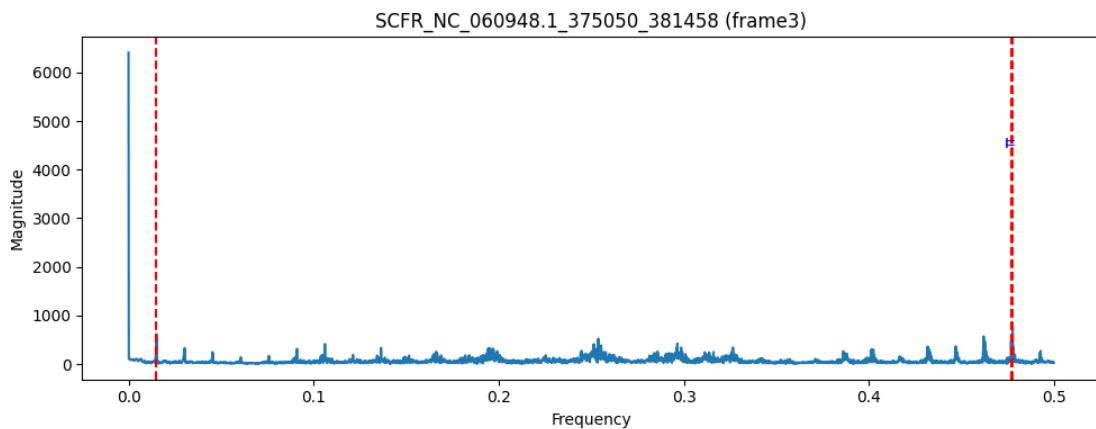


Figure 5: FFT Spectrum for frame3

Frequency	Motifs
0.478	TT (1870), TC (1763), CT (1678), CC (668), AT (174)
0.477	TT (1870), TC (1763), CT (1678), CC (668), AT (174)