

# Fourier Spectral Analysis of Coding Sequences

Automated Report

November 20, 2025

## Contents

<b>1 Group 1: Single Peak at 0.33</b>	<b>2</b>
1.1 SCFR_NC_060935.1_6773051_6778619 . . . . .	2
1.1.1 Protein: frame-1 . . . . .	2
<b>2 Group 2: Single Peak Elsewhere</b>	<b>3</b>
<b>3 Group 3: Multiple Peaks</b>	<b>3</b>
3.1 SCFR_NC_060935.1_11331257_11336300 . . . . .	3
3.1.1 Protein: frame3 . . . . .	3
3.2 SCFR_NC_060935.1_3699612_3705909 . . . . .	4
3.2.1 Protein: frame-3 . . . . .	4
3.3 SCFR_NC_060935.1_3712779_3720252 . . . . .	5
3.3.1 Protein: frame1 . . . . .	5
3.4 SCFR_NC_060935.1_3701299_3707122 . . . . .	6
3.4.1 Protein: frame2 . . . . .	6
3.5 SCFR_NC_060935.1_206501_214061 . . . . .	7
3.5.1 Protein: frame-1 . . . . .	7
3.6 SCFR_NC_060935.1_206502_214065 . . . . .	8
3.6.1 Protein: frame1 . . . . .	8

# 1 Group 1: Single Peak at 0.33

## 1.1 SCFR\_NC\_060935.1\_6773051\_6778619

### 1.1.1 Protein: frame-1

Gene ID: SCFR

Nucleotide Accession: NC\_060935.1

Sequence Length: 5568 bp

Protein Description:

Stop-codon-free region (6773051-6778619)

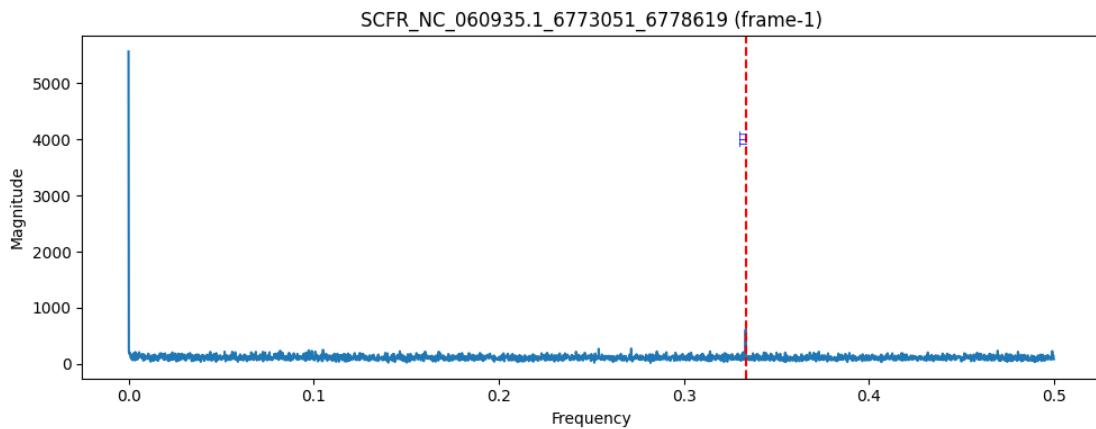


Figure 1: FFT Spectrum for frame-1

Frequency	Motifs
0.333	TTT (251), TCT (190), TTC (180), CTT (155), TTG (153)

## 2 Group 2: Single Peak Elsewhere

## 3 Group 3: Multiple Peaks

### 3.1 SCFR\_NC\_060935.1\_11331257\_11336300

#### 3.1.1 Protein: frame3

Gene ID: SCFR

Nucleotide Accession: NC\_060935.1

Sequence Length: 5043 bp

Protein Description:

Stop-codon-free region (11331257-11336300)

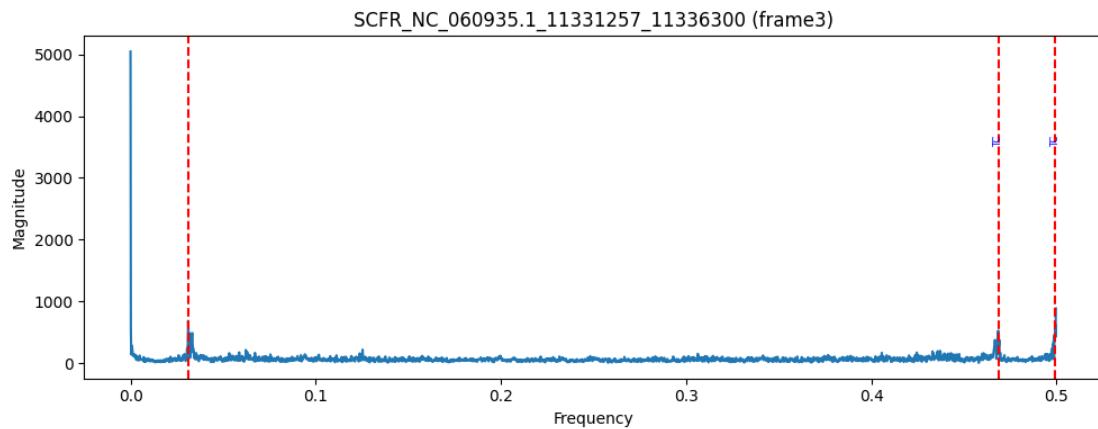


Figure 2: FFT Spectrum for frame3

Frequency	Motifs
0.499	TC (1165), CT (1062), GT (911), TG (810), CC (507)
0.469	TC (1165), CT (1062), GT (911), TG (810), CC (507)

## 3.2 SCFR\_NC\_060935.1\_3699612\_3705909

### 3.2.1 Protein: frame-3

Gene ID: SCFR

Nucleotide Accession: NC\_060935.1

Sequence Length: 6297 bp

Protein Description:

Stop-codon-free region (3699612-3705909)

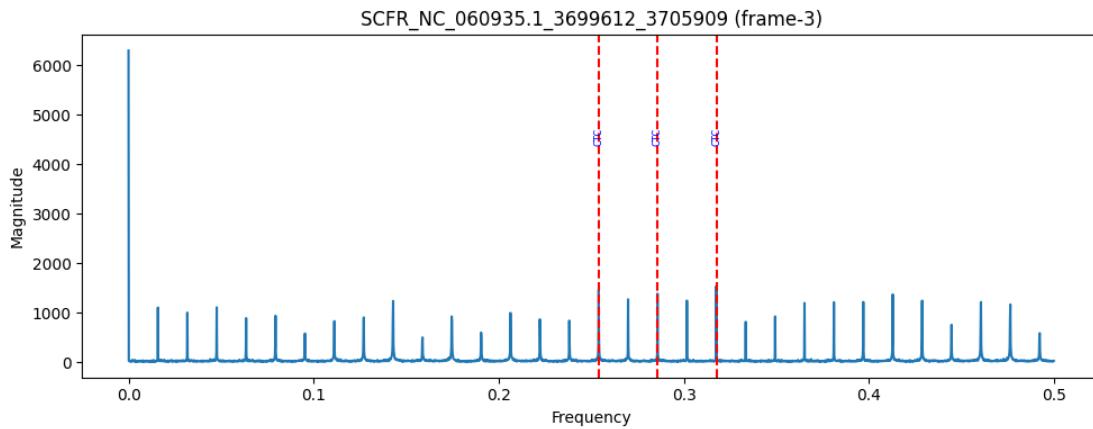


Figure 3: FFT Spectrum for frame-3

Frequency	Motifs
0.317	CTC (409), TCT (405), CCT (392), TCC (390), TCA (297)
0.254	CTC (409), TCT (405), CCT (392), TCC (390), TCA (297)
0.286	CTC (409), TCT (405), CCT (392), TCC (390), TCA (297)

### 3.3 SCFR\_NC\_060935.1\_3712779\_3720252

#### 3.3.1 Protein: frame1

Gene ID: SCFR

Nucleotide Accession: NC\_060935.1

Sequence Length: 7473 bp

Protein Description:

Stop-codon-free region (3712779-3720252)

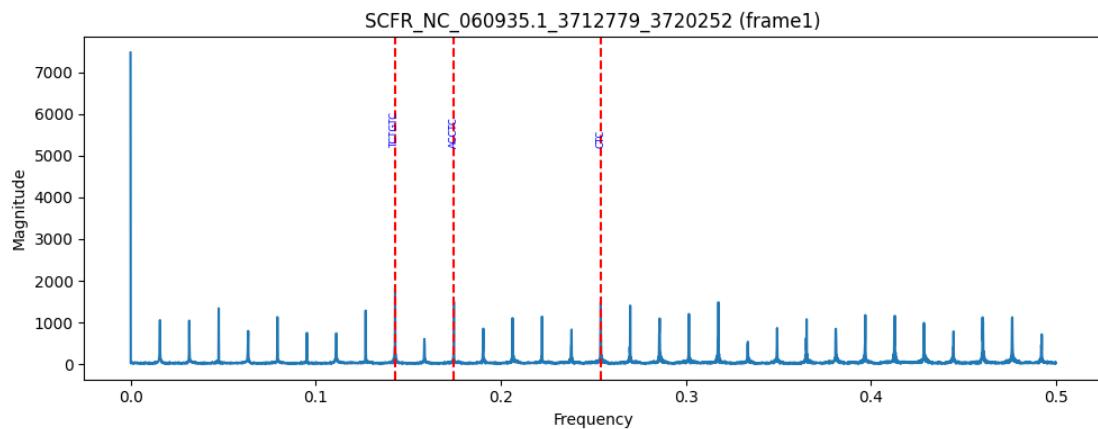


Figure 4: FFT Spectrum for frame1

Frequency	Motifs
0.143	TCTGTC (167), ATTCCA (118), CCACCT (118), TTCCAC (117), TCCACC (117)
0.175	ACCTC (233), CATCA (224), TCTGT (168), CTGTC (167), CCACC (120)
0.254	CTC (481), TCT (480), CCT (469), TCC (468), TCA (350)

## 3.4 SCFR\_NC\_060935.1\_3701299\_3707122

### 3.4.1 Protein: frame2

Gene ID: SCFR

Nucleotide Accession: NC\_060935.1

Sequence Length: 5823 bp

Protein Description:

Stop-codon-free region (3701299-3707122)

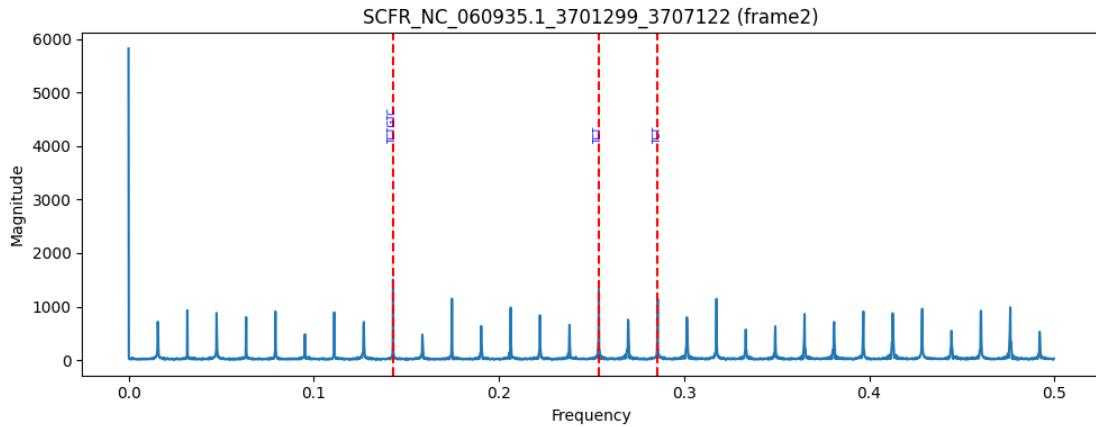


Figure 5: FFT Spectrum for frame2

Frequency	Motifs
0.143	TCTGTC (124), CATCAA (92), ACATCA (90), ATCAAG (90), TCAAGT (90)
0.254	TCT (372), CTC (371), TCC (360), CCT (359), TCA (275)
0.286	TCT (372), CTC (371), TCC (360), CCT (359), TCA (275)

### 3.5 SCFR\_NC\_060935.1\_206501\_214061

#### 3.5.1 Protein: frame-1

Gene ID: SCFR

Nucleotide Accession: NC\_060935.1

Sequence Length: 7560 bp

Protein Description:

Stop-codon-free region (206501-214061)

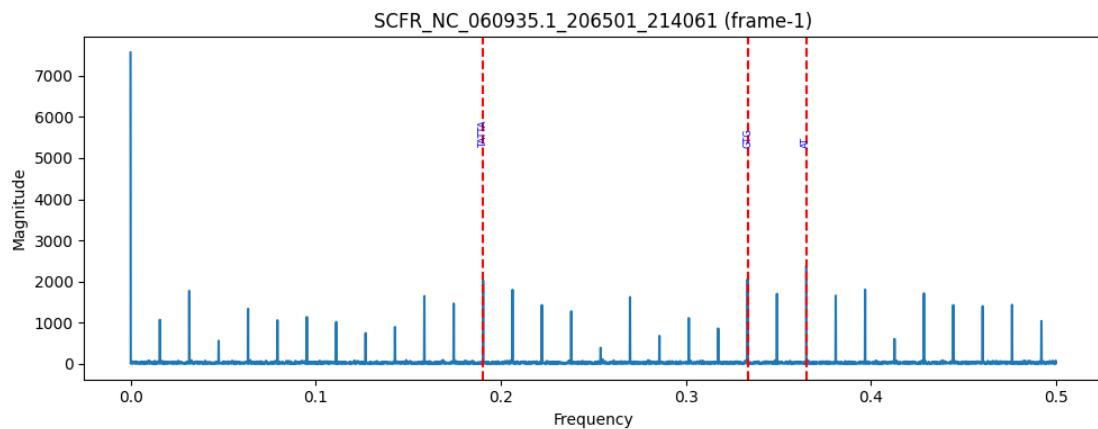


Figure 6: FFT Spectrum for frame-1

Frequency	Motifs
0.365	AT (1088), TG (961), TA (834), GG (807), GT (760)
0.333	GTG (587), TGG (548), ATT (516), GAT (472), TTA (403)
0.19	TATTA (231), GGTGT (225), GTGTG (223), TGGTG (219), ATGGT (213)

## 3.6 SCFR\_NC\_060935.1\_206502\_214065

### 3.6.1 Protein: frame1

Gene ID: SCFR

Nucleotide Accession: NC\_060935.1

Sequence Length: 7563 bp

Protein Description:

Stop-codon-free region (206502-214065)

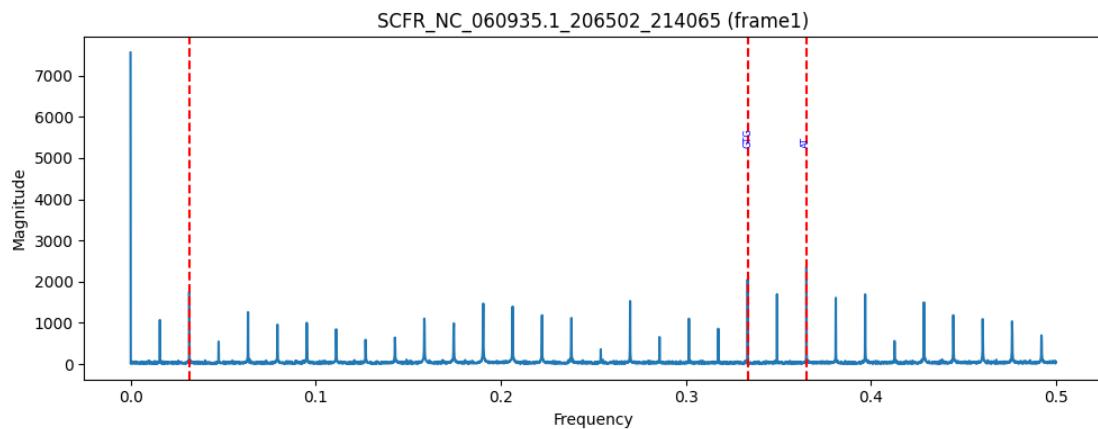


Figure 7: FFT Spectrum for frame1

Frequency	Motifs
0.365	AT (1088), TG (961), TA (834), GG (807), GT (760)
0.333	GTG (587), TGG (548), ATT (516), GAT (472), TTA (403)