

# 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\_060937.1\_13673369\_13678517

#### 3.1.1 Protein: frame3

Gene ID: SCFR

Nucleotide Accession: NC\_060937.1

Sequence Length: 5148 bp

Protein Description:

Stop-codon-free region (13673369-13678517)

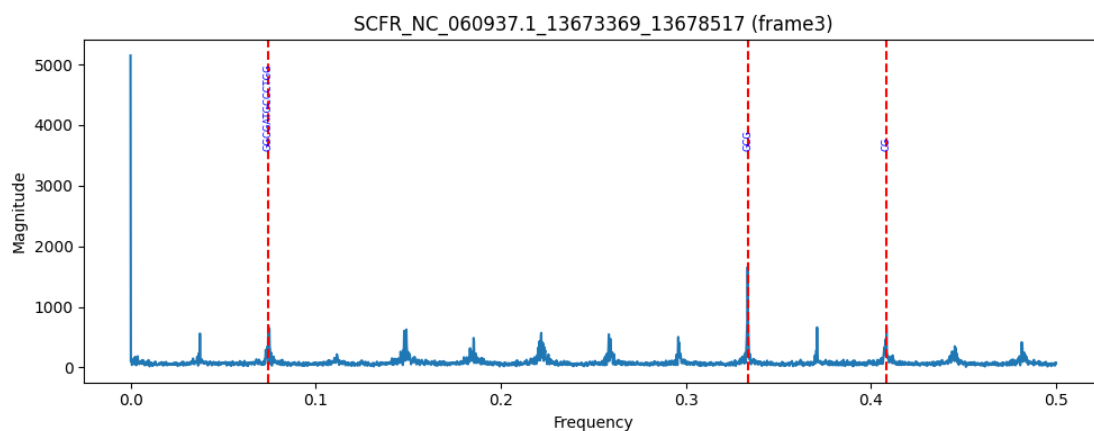


Figure 1: FFT Spectrum for frame3

Frequency	Motifs
0.333	GCG (307), GGC (263), CGT (263), TGG (245), CCC (225)
0.074	GGCGATGCCCTGG (37), GCCCTGGACGGCG (35), GCGATGCCCTGGG (35), CCCTGGACGGCGT (35)
0.408	CG (617), CC (582), GC (538), GG (493), TG (465)

## 3.2 SCFR\_NC\_060937.1\_13673413\_13678828

### 3.2.1 Protein: frame-3

**Gene ID:** SCFR

**Nucleotide Accession:** NC\_060937.1

**Sequence Length:** 5415 bp

**Protein Description:**

Stop-codon-free region (13673413-13678828)

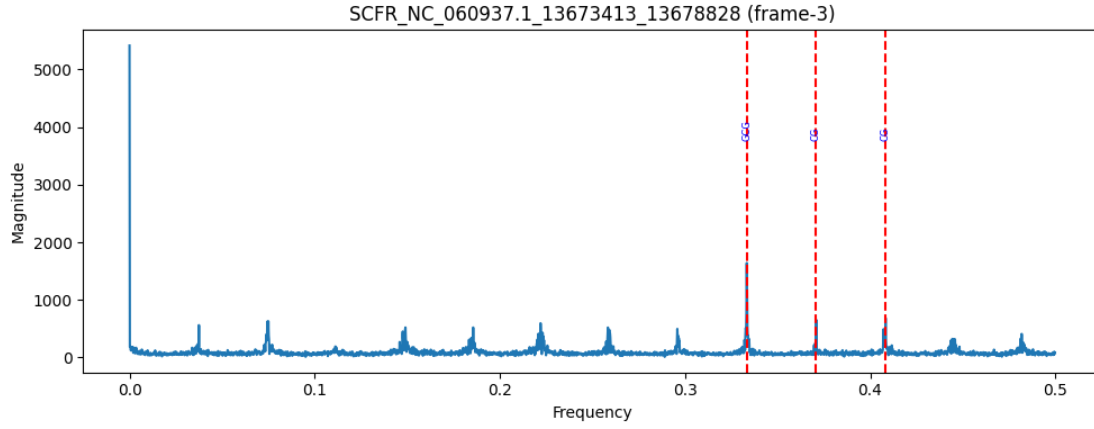


Figure 2: FFT Spectrum for frame-3

Frequency	Motifs
0.333	GCG (306), GGC (266), CGT (263), TGG (258), CCC (228)
0.408	CG (616), CC (595), GC (551), GG (519), TG (498)
0.371	CG (616), CC (595), GC (551), GG (519), TG (498)

### 3.3 SCFR\_NC\_060937.1\_1302045\_1307583

#### 3.3.1 Protein: frame1

**Gene ID:** SCFR

**Nucleotide Accession:** NC\_060937.1

**Sequence Length:** 5538 bp

**Protein Description:**

Stop-codon-free region (1302045-1307583)

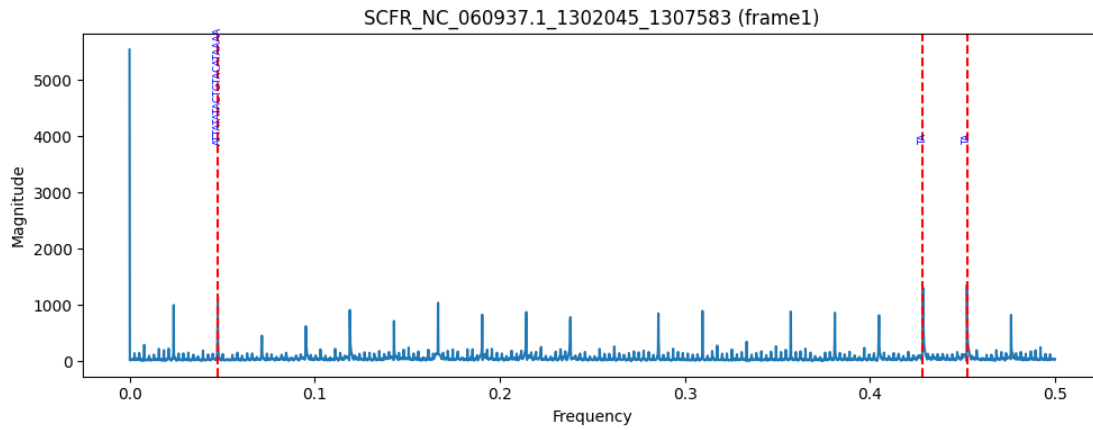


Figure 3: FFT Spectrum for frame1

Frequency	Motifs
0.452	TA (1134), AT (1059), AA (923), CA (46)
0.428	TA (1134), AT (1059), AA (923), CA (46)
0.048	ATTATATACTGTACATAAAA (37), TTATATACTGTACATAAAAT (36), TATATACTGTACATAAAATA (