

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_060925.1_2194196_2200379

3.1.1 Protein: frame-2

Gene ID: SCFR

Nucleotide Accession: NC_060925.1

Sequence Length: 6183 bp

Protein Description:

Stop-codon-free region (2194196-2200379)

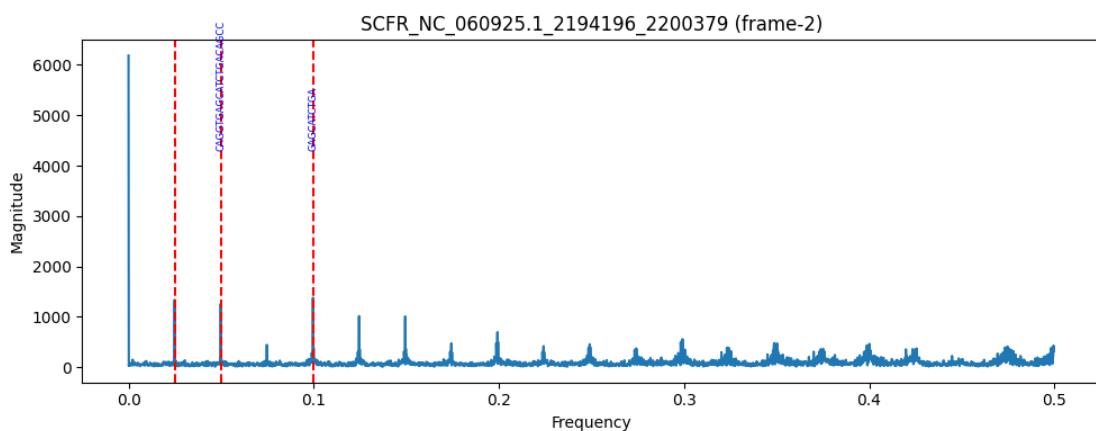


Figure 1: FFT Spectrum for frame-2

Frequency	Motifs
0.1	GAGCATCTGA (89), AGCATCTGAC (80), AGCACCCCACA (75)
0.05	CAGGTGAGCATCTGACAGCC (27), GGTGAGCATCTGACAGCCTG (26), CCCACACCCCCAGGTGAC

3.2 SCFR_NC_060925.1_31284113_31289453

3.2.1 Protein: frame3

Gene ID: SCFR

Nucleotide Accession: NC_060925.1

Sequence Length: 5340 bp

Protein Description:

Stop-codon-free region (31284113-31289453)

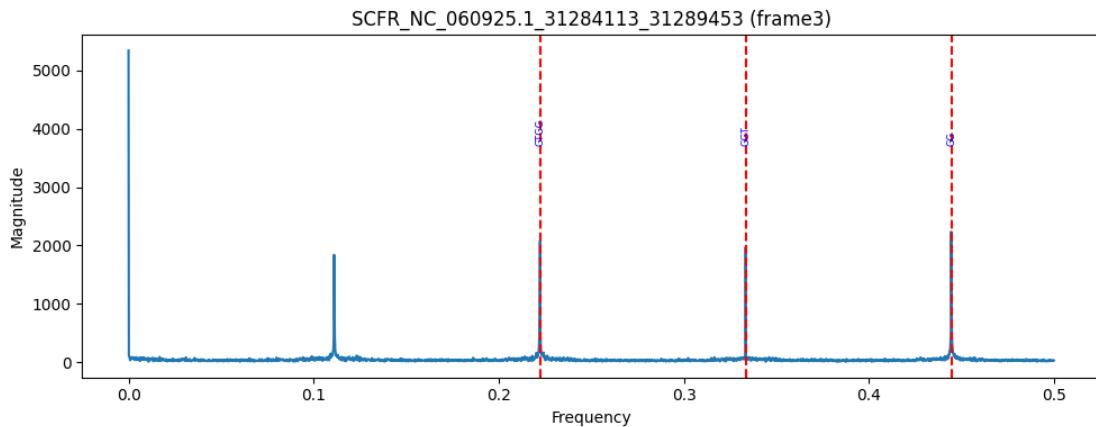


Figure 2: FFT Spectrum for frame3

Frequency	Motifs
0.444	GG (1746), AG (670), GT (636), GA (626), TG (592)
0.222	GTGG (572), AGGG (567), GGGT (566), GGTG (566), TGGA (528)
0.333	GGT (630), TGG (592), AGG (587), GTG (572), GGG (567)

3.3 SCFR_NC_060925.1_31283991_31289457

3.3.1 Protein: frame-1

Gene ID: SCFR

Nucleotide Accession: NC_060925.1

Sequence Length: 5466 bp

Protein Description:

Stop-codon-free region (31283991-31289457)

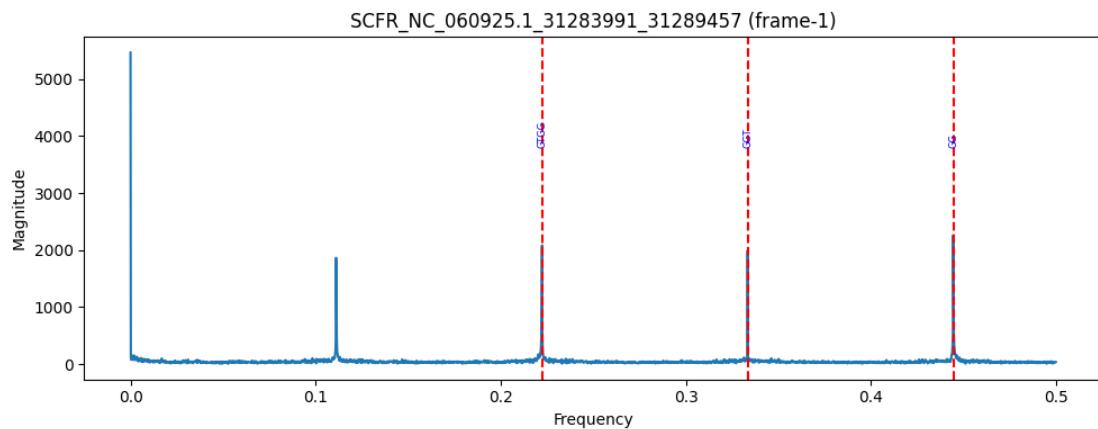


Figure 3: FFT Spectrum for frame-1

Frequency	Motifs
0.444	GG (1762), AG (684), GT (641), GA (638), TG (602)
0.222	GTGG (574), AGGG (571), GGGT (569), GGTG (569), TGGA (530)
0.333	GGT (635), TGG (596), AGG (593), GTG (575), GGG (572)

3.4 SCFR_NC_060925.1_31283716_31289560

3.4.1 Protein: frame-3

Gene ID: SCFR

Nucleotide Accession: NC_060925.1

Sequence Length: 5844 bp

Protein Description:

Stop-codon-free region (31283716-31289560)

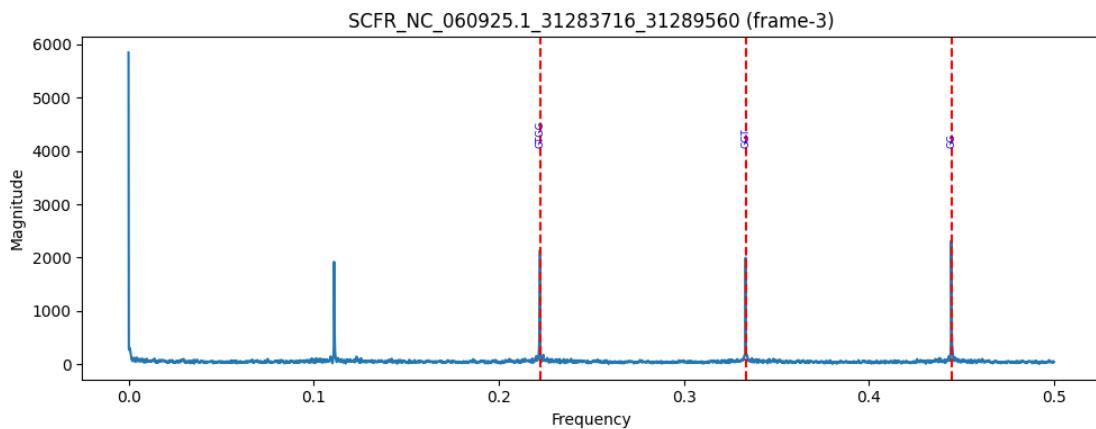


Figure 4: FFT Spectrum for frame-3

Frequency	Motifs
0.444	GG (1799), AG (706), GT (658), GA (656), TG (636)
0.222	GTGG (577), AGGG (574), GGTG (573), GGGT (571), TGGA (534)
0.333	GGT (643), TGG (611), AGG (601), GGG (583), GTG (582)

3.5 SCFR_NC_060925.1_31283980_31289470

3.5.1 Protein: frame2

Gene ID: SCFR

Nucleotide Accession: NC_060925.1

Sequence Length: 5490 bp

Protein Description:

Stop-codon-free region (31283980-31289470)

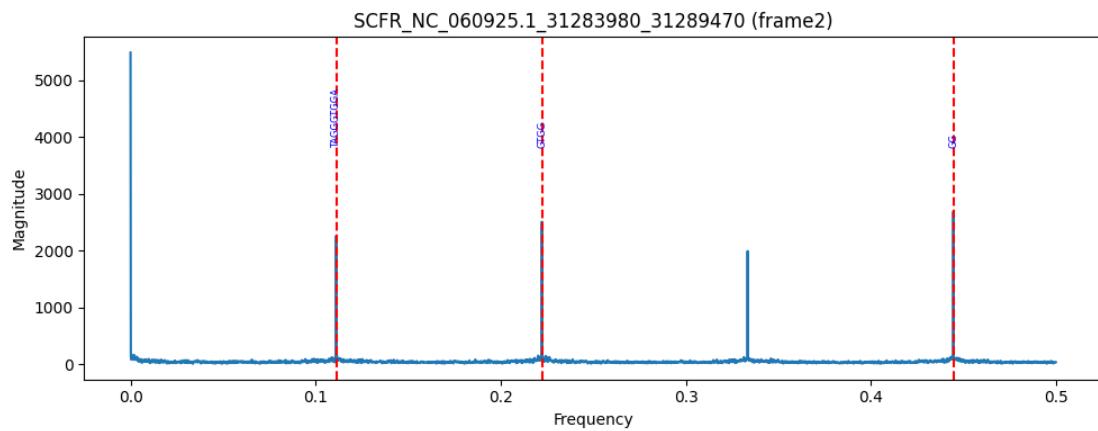


Figure 5: FFT Spectrum for frame2

Frequency	Motifs
0.444	GG (1766), AG (686), GT (642), GA (638), TG (603)
0.222	GTGG (574), AGGG (572), GGGT (569), GGTG (569), TGGA (530)
0.111	TAGGGTGG (252), AGGGTGGAT (237), GGGTGGATA (237), GGTGGATAG (237), GTGGATAGG (237)

3.6 SCFR_NC_060925.1_110130430_110135794

3.6.1 Protein: frame2

Gene ID: SCFR

Nucleotide Accession: NC_060925.1

Sequence Length: 5364 bp

Protein Description:

Stop-codon-free region (110130430-110135794)

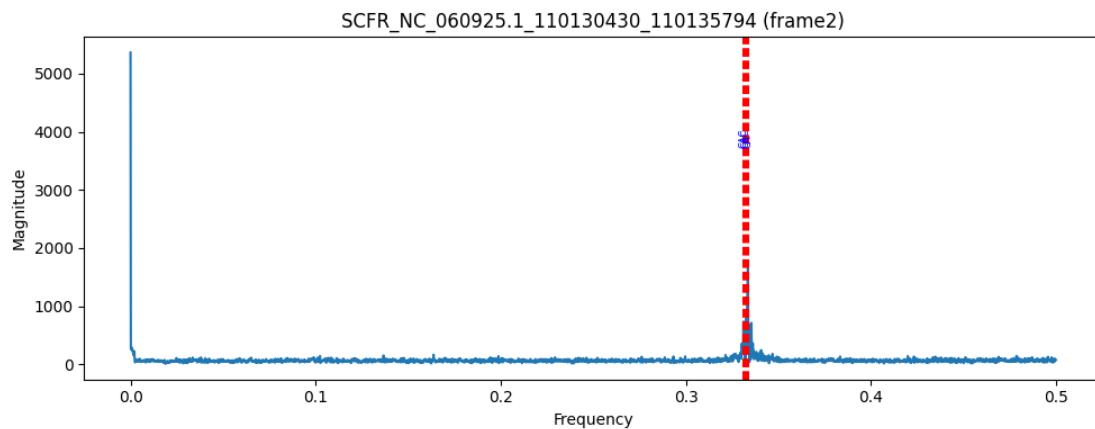


Figure 6: FFT Spectrum for frame2

Frequency	Motifs
0.334	CA (1599), AC (1269), CC (1227), TC (331), AT (308)
0.332	CAC (1167), CCA (1152), ACC (1149), TCA (295), CAT (292)
0.331	CAC (1167), CCA (1152), ACC (1149), TCA (295), CAT (292)