

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_060947.1_359918_366206

3.1.1 Protein: frame3

Gene ID: SCFR

Nucleotide Accession: NC_060947.1

Sequence Length: 6288 bp

Protein Description:

Stop-codon-free region (359918-366206)

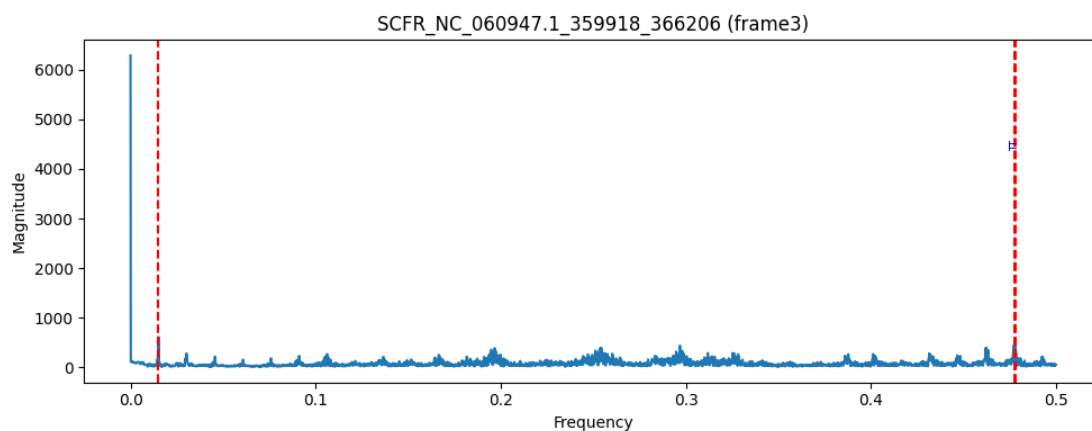


Figure 1: FFT Spectrum for frame3

| Frequency | Motifs |
|-----------|---|
| 0.478 | TT (1822), TC (1733), CT (1650), CC (653), AT (172) |
| 0.478 | TT (1822), TC (1733), CT (1650), CC (653), AT (172) |

3.2 SCFR_NC_060947.1_151659219_151665822

3.2.1 Protein: frame1

Gene ID: SCFR

Nucleotide Accession: NC_060947.1

Sequence Length: 6603 bp

Protein Description:

Stop-codon-free region (151659219-151665822)

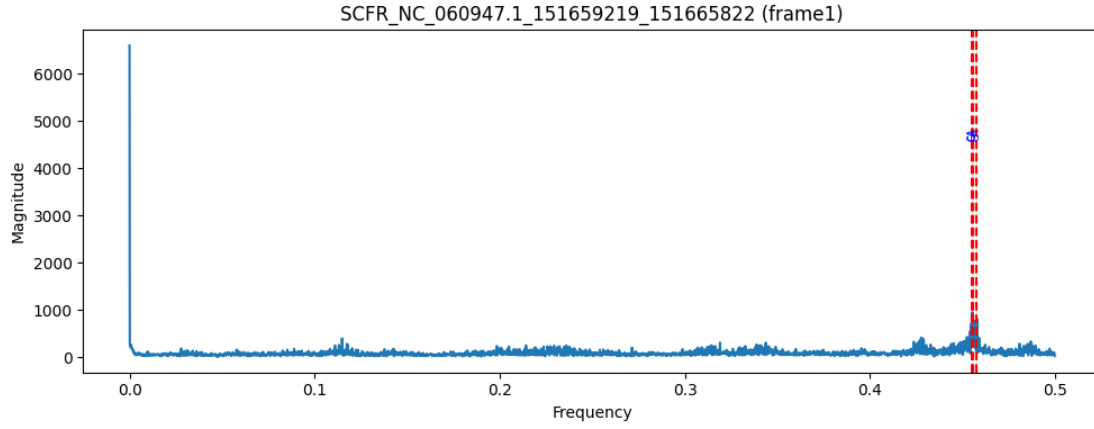


Figure 2: FFT Spectrum for frame1

| Frequency | Motifs |
|-----------|--|
| 0.455 | CA (2393), AC (2157), CC (594), GC (371), AT (255) |
| 0.455 | CA (2393), AC (2157), CC (594), GC (371), AT (255) |
| 0.458 | CA (2393), AC (2157), CC (594), GC (371), AT (255) |

3.3 SCFR_NC_060947.1_3253016_3259088

3.3.1 Protein: frame-3

Gene ID: SCFR

Nucleotide Accession: NC_060947.1

Sequence Length: 6072 bp

Protein Description:

Stop-codon-free region (3253016-3259088)

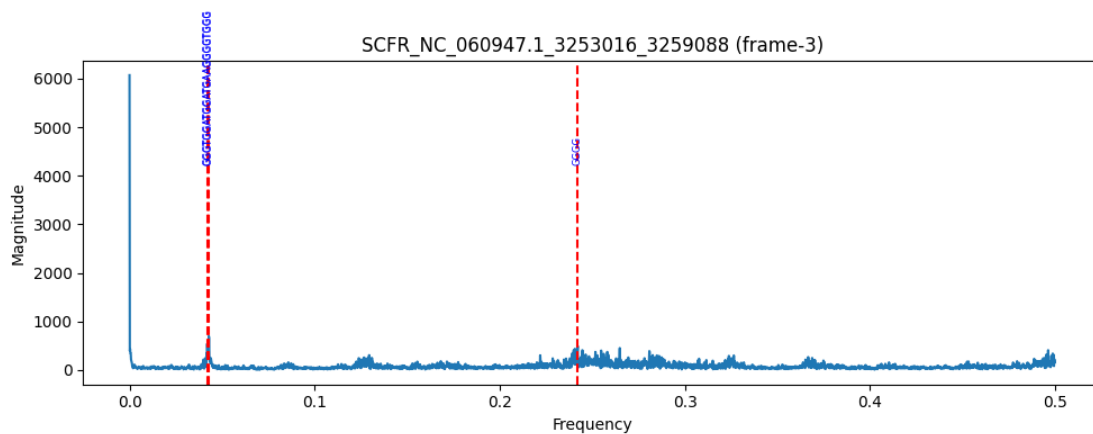


Figure 3: FFT Spectrum for frame-3

| | |
|-----------|---|
| Frequency | |
| 0.043 | GGGTGGATGGATGAAGGGGTGGG (180), GGGGTGGATGGATGAAGGGGTGG (179), GGGGGTGGATGAAGGGGTGG (179), GGGGGTGGATGAAGGGGTGG (179) |
| 0.042 | GGGTGGATGGATGAAGGGGTGGG (180), GGGGTGGATGGATGAAGGGGTGG (179), GGGGGTGGATGAAGGGGTGG (179), GGGGGTGGATGAAGGGGTGG (179) |
| 0.242 | GGGGTGGATGAAGGGGTGGG (180), GGGGTGGATGGATGAAGGGGTGG (179), GGGGGTGGATGAAGGGGTGG (179), GGGGGTGGATGAAGGGGTGG (179), GGGG (891), GATG (487) |

3.4 SCFR_NC_060947.1_359745_366177

3.4.1 Protein: frame1

Gene ID: SCFR

Nucleotide Accession: NC_060947.1

Sequence Length: 6432 bp

Protein Description:

Stop-codon-free region (359745-366177)

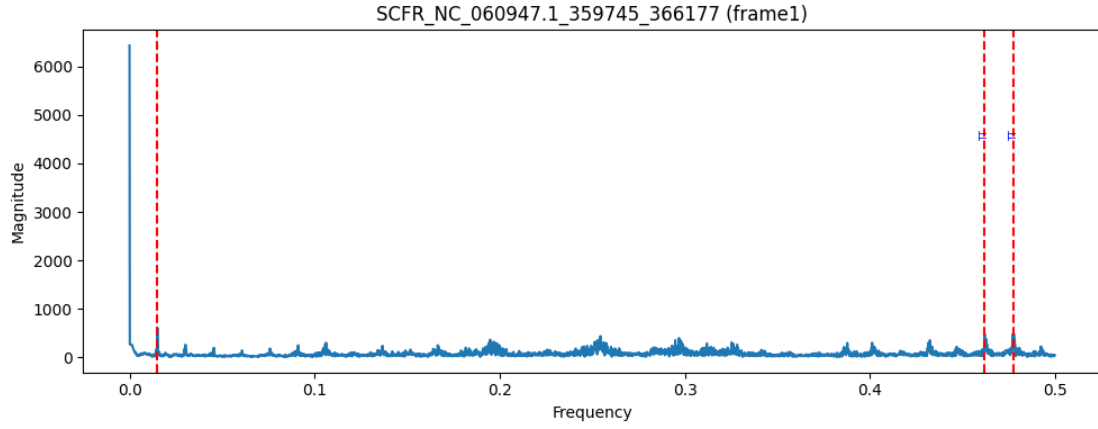


Figure 4: FFT Spectrum for frame1

| Frequency | Motifs |
|-----------|---|
| 0.462 | TT (1829), TC (1734), CT (1657), CC (653), AT (178) |
| 0.478 | TT (1829), TC (1734), CT (1657), CC (653), AT (178) |

3.5 SCFR_NC_060947.1_3253387_3259066

3.5.1 Protein: frame-1

Gene ID: SCFR

Nucleotide Accession: NC_060947.1

Sequence Length: 5679 bp

Protein Description:

Stop-codon-free region (3253387-3259066)

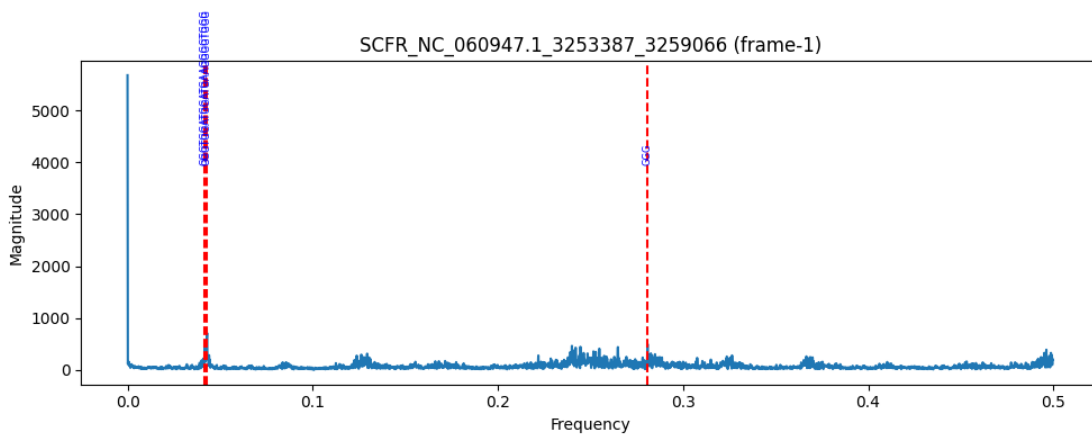


Figure 5: FFT Spectrum for frame-1

| | |
|-----------|---|
| Frequency | |
| 0.043 | GGGTGGATGGATGAAGGGGTGGG (180), GGGGTGGATGGATGAAGGGGTGG (179), GGGGGTGGA |
| 0.281 | GGG (1371), TGG (72) |
| 0.042 | GGGTGGATGGATGAAGGGGTGGG (180), GGGGTGGATGGATGAAGGGGTGG (179), GGGGGTGGA |

3.6 SCFR_NC_060947.1_74174571_74180871

3.6.1 Protein: frame-2

Gene ID: SCFR

Nucleotide Accession: NC_060947.1

Sequence Length: 6300 bp

Protein Description:

Stop-codon-free region (74174571-74180871)

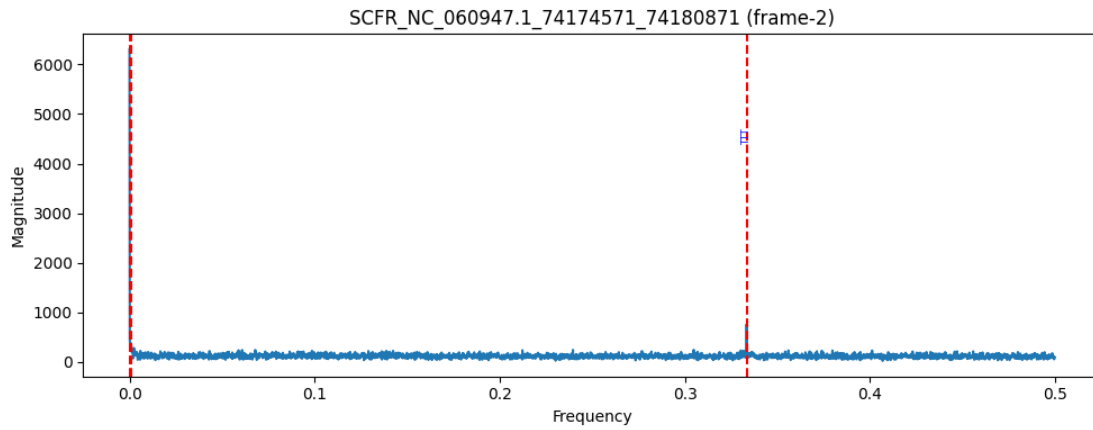


Figure 6: FFT Spectrum for frame-2

| Frequency | Motifs |
|-----------|---|
| 0.333 | TTT (321), TTC (215), CTT (211), TCT (204), TCA (164) |

3.7 SCFR_NC_060947.1_7722679_7734679

3.7.1 Protein: frame2

Gene ID: SCFR
Nucleotide Accession: NC_060947.1
Sequence Length: 12000 bp
Protein Description:
Stop-codon-free region (7722679-7734679)

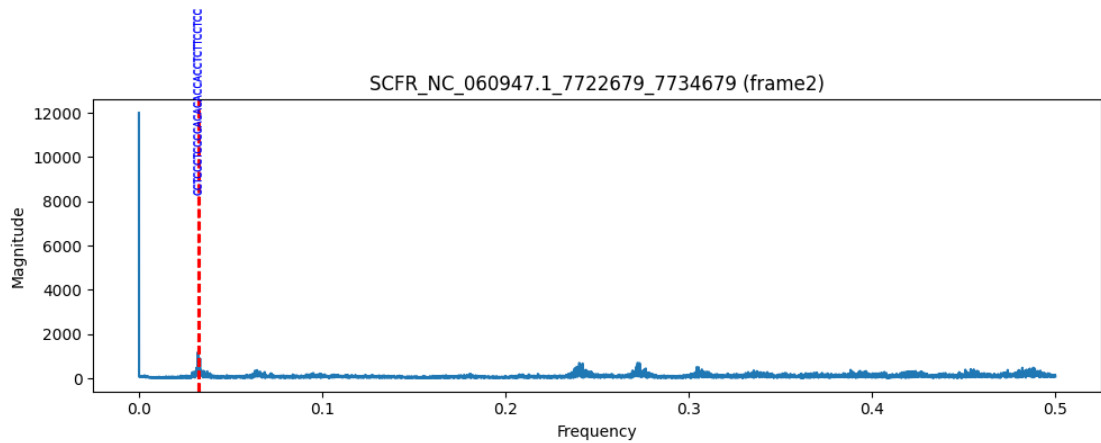


Figure 7: FFT Spectrum for frame2

| Frequency | |
|-----------|--|
| 0.033 | CCTCCCTCCCCACACACCACCTCTTCCTCC (157), CCTCCCTCCCTCCCCACACACCACCTCTTC (157), CCTCCCTCCCTCCCCACACACCACCTCTTC (157) |
| 0.032 | CCTCCCTCCCCACACACCACCTCTTCCTCC (157), CCTCCCTCCCTCCCCACACACCACCTCTTC (157), CCTCCCTCCCTCCCCACACACCACCTCTTC (157) |

3.8 SCFR_NC_060947.1_3253152_3259275

3.8.1 Protein: frame-2

Gene ID: SCFR

Nucleotide Accession: NC_060947.1

Sequence Length: 6123 bp

Protein Description:

Stop-codon-free region (3253152-3259275)

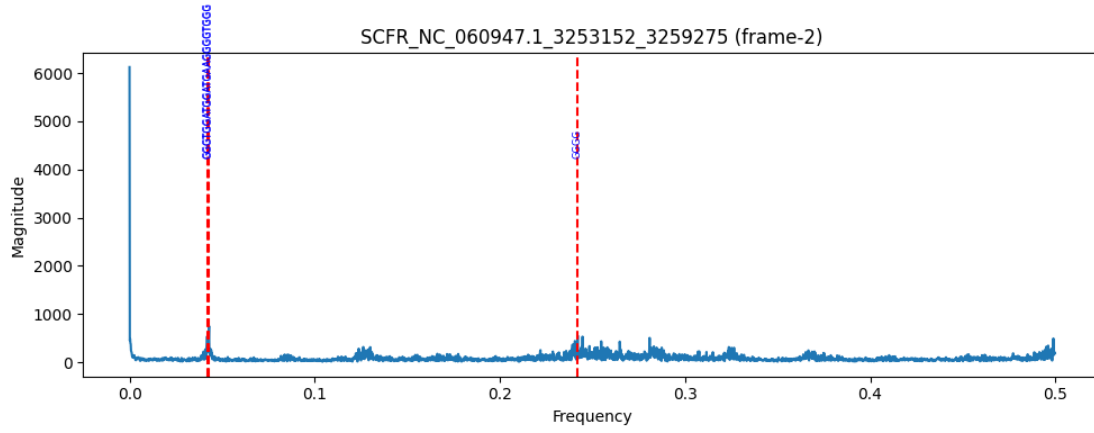


Figure 8: FFT Spectrum for frame-2

| Frequency | |
|-----------|--|
| 0.043 | GGGTGGATGGATGAAGGGGTGGG (180), GGGGTGGATGGATGAAGGGGTGG (179), GGGGGTGGGA (891), GATG (484) |
| 0.242 | |
| 0.042 | GGGTGGATGGATGAAGGGGTGGG (180), GGGGTGGATGGATGAAGGGGTGG (179), GGGGGTGGGA (891), GATG (484) |

3.9 SCFR_NC_060947.1_7722645_7734708

3.9.1 Protein: frame1

Gene ID: SCFR

Nucleotide Accession: NC_060947.1

Sequence Length: 12063 bp

Protein Description:

Stop-codon-free region (7722645-7734708)

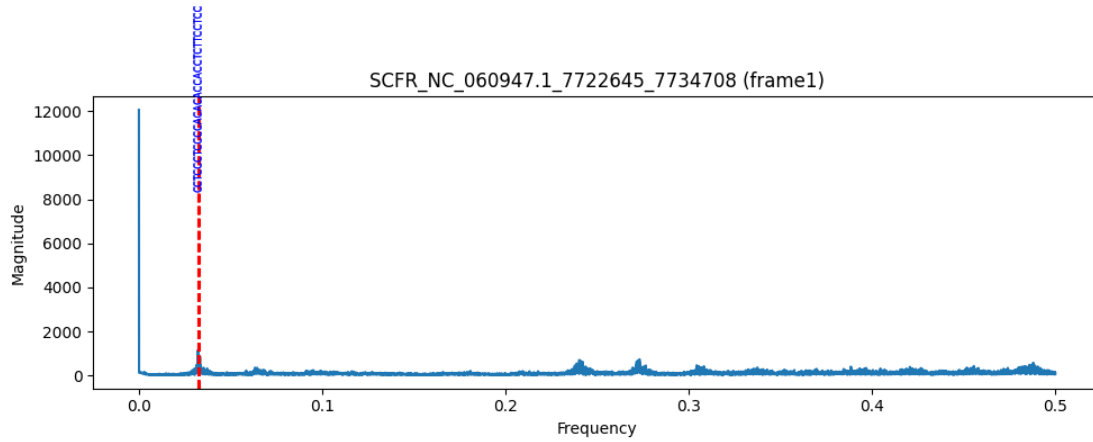


Figure 9: FFT Spectrum for frame1

| Frequency | |
|-----------|--|
| 0.032 | CCTCCCTCCCCACACACCACCTCTTCCTCC (157), CCTCCCTCCCTCCCCACACACCACCTCTTC (157) |
| 0.033 | CCTCCCTCCCCACACACCACCTCTTCCTCC (157), CCTCCCTCCCTCCCCACACACCACCTCTTC (157) |

3.10 SCFR_NC_060947.1_151389693_151396119

3.10.1 Protein: frame-2

Gene ID: SCFR

Nucleotide Accession: NC_060947.1

Sequence Length: 6426 bp

Protein Description:

Stop-codon-free region (151389693-151396119)

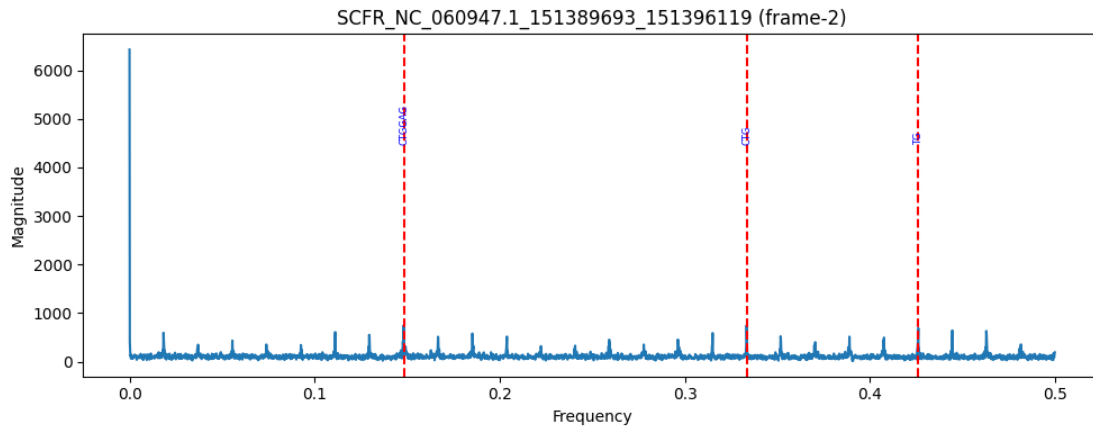


Figure 10: FFT Spectrum for frame-2

| Frequency | Motifs |
|-----------|---|
| 0.148 | CTGGAG (56), TGGAGT (55), CCTGGA (53), CAATGG (53), GCAATG (52) |
| 0.333 | CTG (276), CCT (254), TGG (219), GCA (210), GGC (206) |
| 0.426 | TG (678), GG (643), GC (608), CC (581), CT (496) |

3.11 SCFR_NC_060947.1_359725_366202

3.11.1 Protein: frame2

Gene ID: SCFR

Nucleotide Accession: NC_060947.1

Sequence Length: 6477 bp

Protein Description:

Stop-codon-free region (359725-366202)

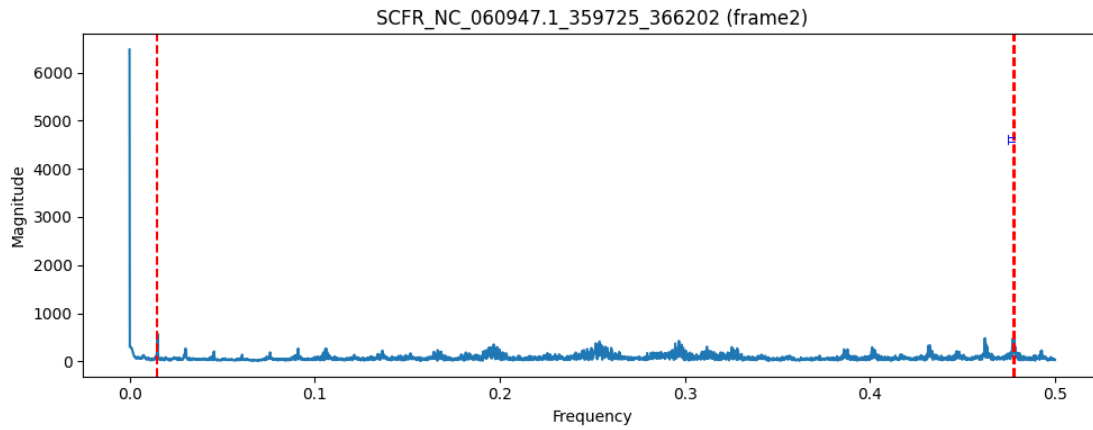


Figure 11: FFT Spectrum for frame2

| Frequency | Motifs |
|-----------|---|
| 0.478 | TT (1830), TC (1739), CT (1663), CC (659), AT (179) |
| 0.478 | TT (1830), TC (1739), CT (1663), CC (659), AT (179) |

3.12 SCFR_NC_060947.1_151659503_151665851

3.12.1 Protein: frame3

Gene ID: SCFR

Nucleotide Accession: NC_060947.1

Sequence Length: 6348 bp

Protein Description:

Stop-codon-free region (151659503-151665851)

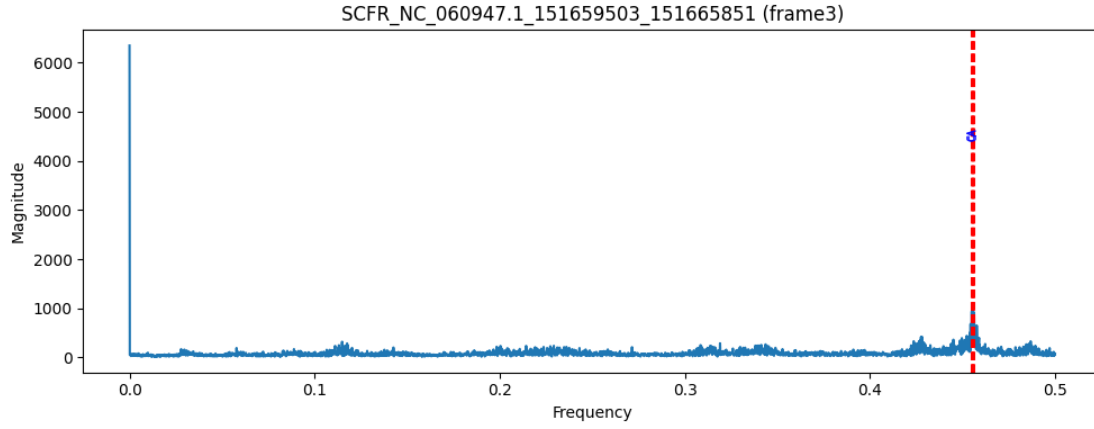


Figure 12: FFT Spectrum for frame3

| Frequency | Motifs |
|-----------|--|
| 0.455 | CA (2375), AC (2152), CC (572), GC (346), AT (250) |
| 0.455 | CA (2375), AC (2152), CC (572), GC (346), AT (250) |
| 0.456 | CA (2375), AC (2152), CC (572), GC (346), AT (250) |

3.13 SCFR_NC_060947.1_151659493_151665865

3.13.1 Protein: frame2

Gene ID: SCFR

Nucleotide Accession: NC_060947.1

Sequence Length: 6372 bp

Protein Description:

Stop-codon-free region (151659493-151665865)

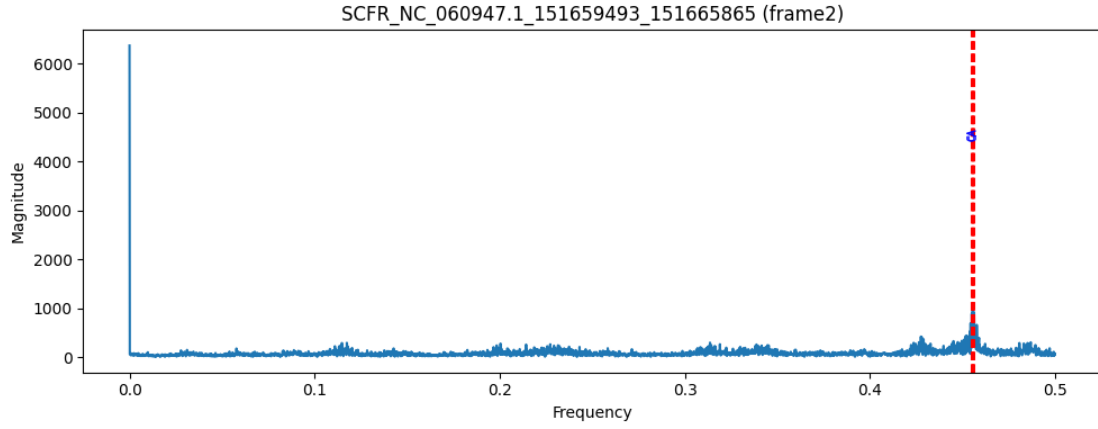


Figure 13: FFT Spectrum for frame2

| Frequency | Motifs |
|-----------|--|
| 0.455 | CA (2377), AC (2155), CC (575), GC (348), AT (250) |
| 0.456 | CA (2377), AC (2155), CC (575), GC (348), AT (250) |
| 0.455 | CA (2377), AC (2155), CC (575), GC (348), AT (250) |

3.14 SCFR_NC_060947.1_7724006_7730822

3.14.1 Protein: frame-3

Gene ID: SCFR
Nucleotide Accession: NC_060947.1
Sequence Length: 6816 bp
Protein Description:
Stop-codon-free region (7724006-7730822)

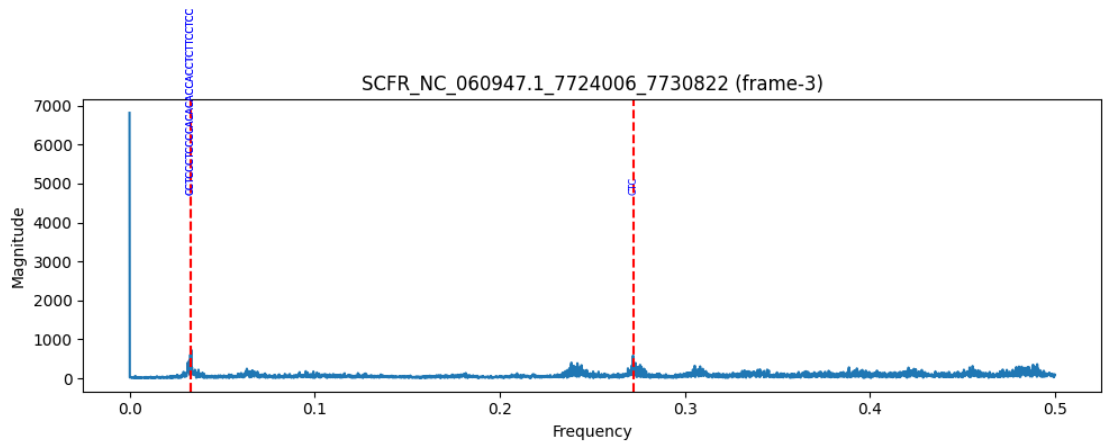


Figure 14: FFT Spectrum for frame-3

| Frequency | |
|-----------|--|
| 0.033 | CCTCCCTCCCCACACACCACCTCTTCCTCC (87), CCTCTTCCTCCCTCCCTCCCTCCCCACACA (86) |
| 0.033 | CCTCCCTCCCCACACACCACCTCTTCCTCC (87), CCTCTTCCTCCCTCCCTCCCTCCCCACACA (86) |
| 0.272 | CT |