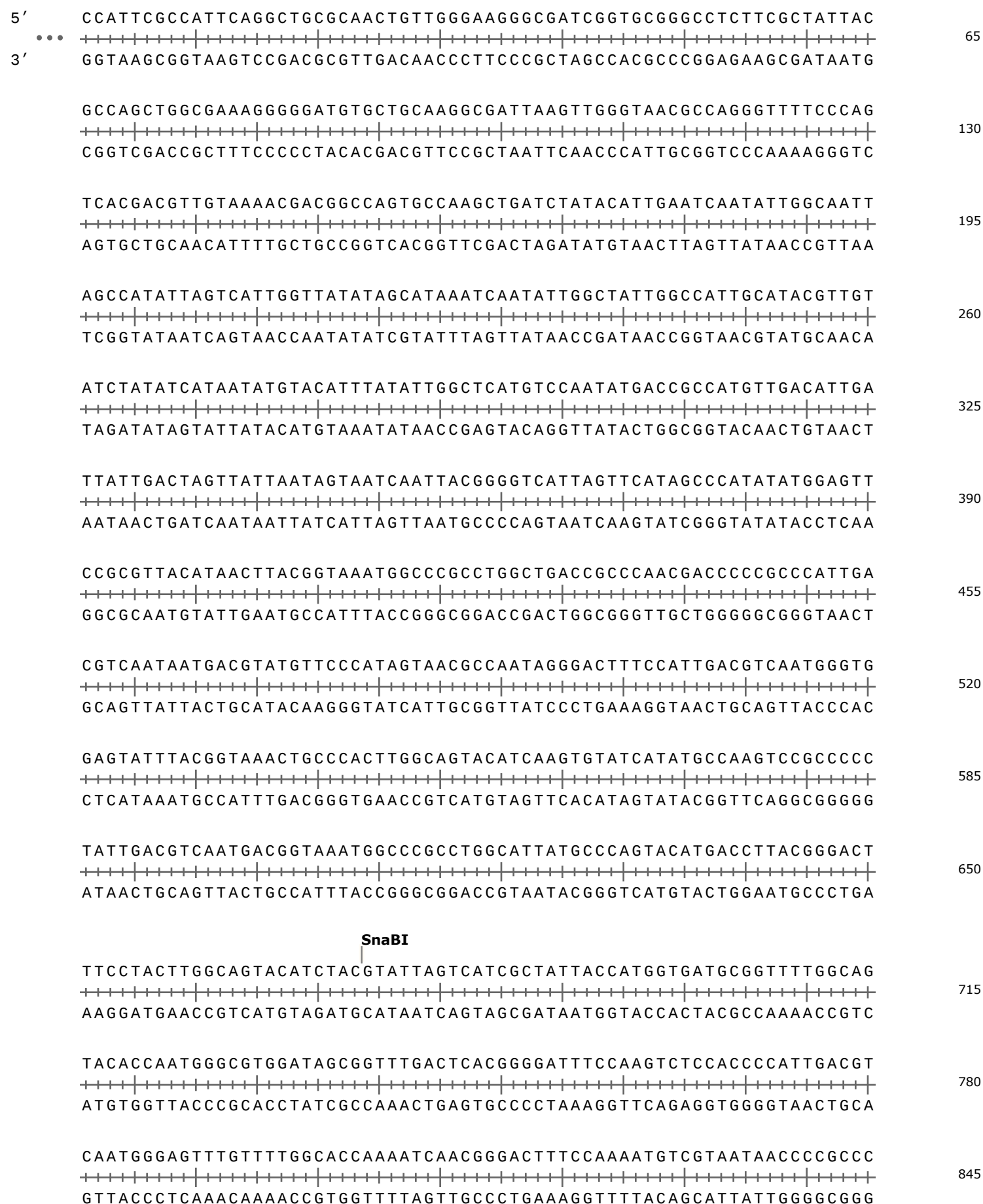
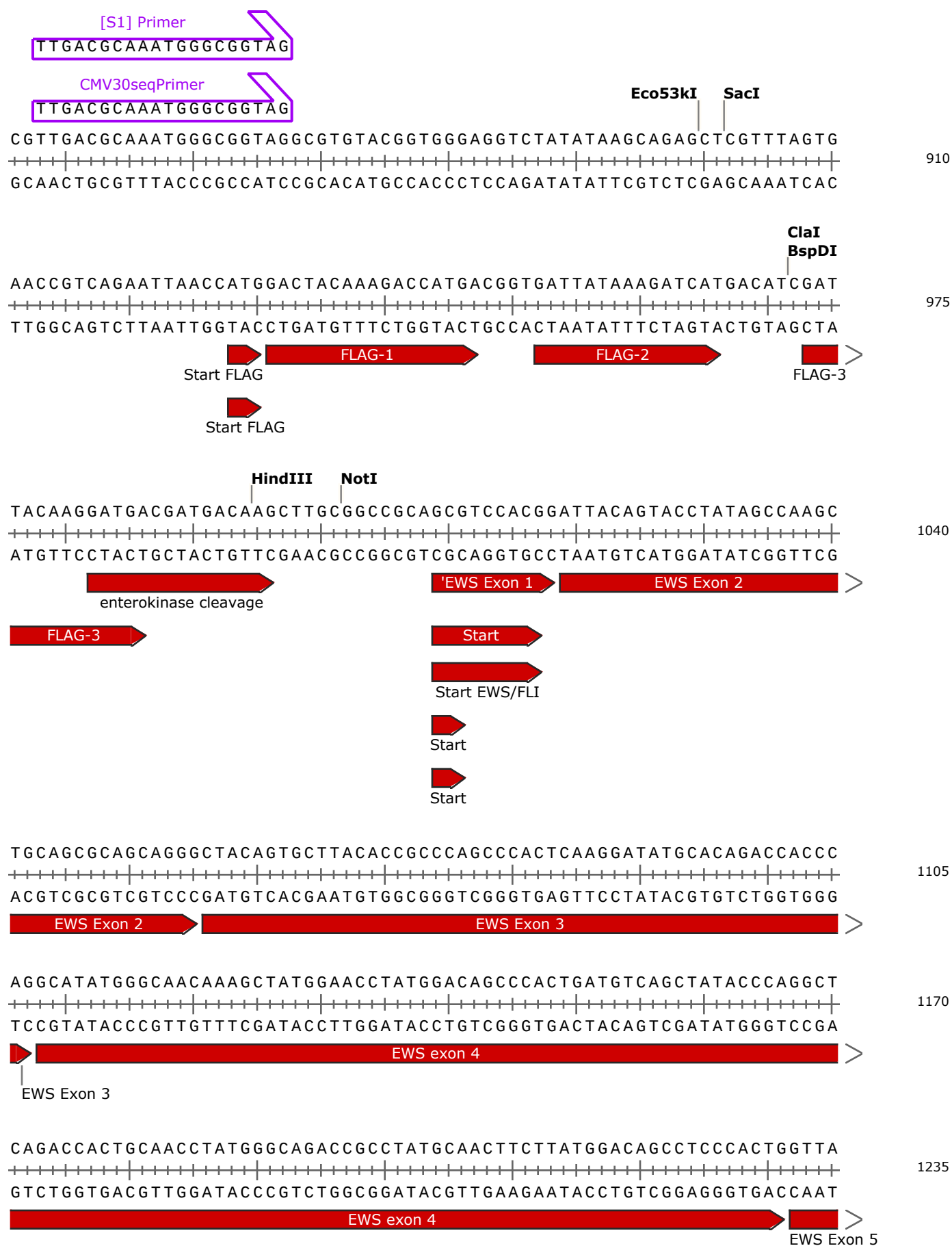
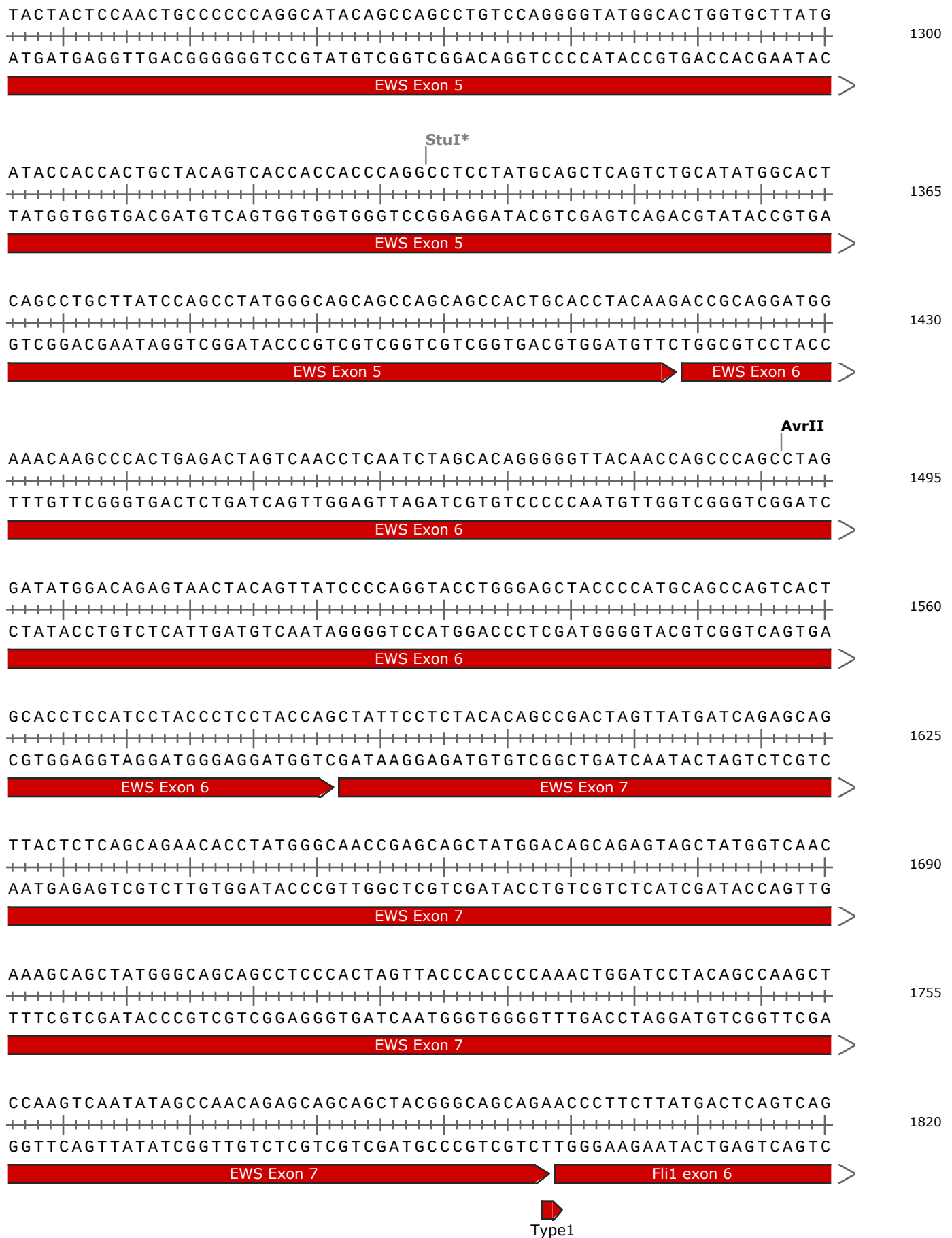


Sequence: 3xFLAG-EWS-FLI1.cm5 (Circular / 7778 bp)
Enzymes: Unique 6+ Cutters (31 of 653 total)
Features: 24 visible, 24 total
Primers: 3 visible, 3 total

Unique Cutters **Bold**







EcoRI

AAGAGGAGCATGGGGCAATAACATGAATTCTGGCCTCAACAAAAGTCCTCCCCTTGGAGGGGGCAC
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1885

Fli1 exon 6

Fli1 exon 7

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1950

Fli1 exon 7

Fli1 exon 8

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2015

Fli1 exon 9

Fli1 exon 8

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2080

Fli1 exon 9

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2145

Fli1 exon 9

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2210

Fli1 exon 9

TGCTTACAAATTTGACTTCCACGGCATTGCCAGGCTCTGCAGCCACATCCGACCGAGTCGTCCA
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2275

Fli1 exon 9

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2340

Fli1 exon 9

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2405

Fli1 exon 9

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Flil exon 9

PmlI EcoRV XbaI
 ACGTGCCTTCACACTTAGGCAGCTACTACTAGGCGATATCGGTACCAGTCGACTCTAGAGGATCC 2535
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Flil exon 9

Stop

Stop

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CMV24seqPrimer

CCACCAGCCTTGTCTAATAAAATTAAGTTGCATCATTTTGTCTGACTAGGTGTCCTTCTATAAT 2665
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CMV24...

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BbvCI
 Bpu10I

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BsmBI

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AgeI
CAGCATAGGCTACCTGGCCATGCCCAACCGGTGGGACATTTGAGTTGCTTGCTTGGCACTGTCCT
GTCGTATCCGATGGACCGGTACGGGTGGCCACCCTGTAAACTCAACGAACGAACCGTGACAGGA 3120

XcmI
CTCATGCGTTGGGTCCACTCAGTAGATGCCTGTTGAATTGGGTACGCGGCCAGCTTGGCTGTGGA
GAGTACGCAACCCAGGTGAGTCATCTACGGACAACCTTAACCCATGCGCCGGTCTGAACCGACACCT 3185

ATGTGTGTCAGTTAGGGTGTGGAAAGTCCCCAGGCTCCCCAGCAGGCAGAAGTATGCAAAGCATG
TACACACAGTCAATCCCACACCTTTCAGGGGTCCGAGGGGTCGTCCGTCTTCATACGTTTCGTAC 3250

SexAI*
CATCTCAATTAGTCAGCAACCAGGTGTGGAAAGTCCCCAGGCTCCCCAGCAGGCAGAAGTATGCA
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AAGCATGCATCTCAATTAGTCAGCAACCATAGTCCCGCCCTAACTCCGCCCATCCCGCCCTAA
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SfiI
GAGGCCGCCTCGGCCTCTGAGCTATTCCAGAAGTAGTGAGGAGGCTTTTTTGGAGGAATTGATCA
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+	+	+	+	+	+	+	+	
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+	+	+	+	+	+	+	+	
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+	+	+	+	+	+	+	+	
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+	+	+	+	+	+	+	+	
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+	+	+	+	+	+	+	+	
ACCCCAAGCTTT	ACTGGCTGGT	TCGCTGCGGG	TGGACGGTAG	TGCTCTAAAG	CTAAGGTGG	CGG		
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+	+	+	+	+	+	+	+	
GCCCCTAGAGT	ACGACCTCA	AGAAGCGGG	TGGGGCCCC	GAGCTAGGGG	AGCGCTCA	ACCAAGT	CGA	

Genomic map of the *hpaA* gene region on chromosome 10, showing the gene structure and restriction enzyme sites.

The gene structure is represented by a horizontal line with vertical tick marks indicating the positions of exons and introns. The gene is transcribed from left to right, as indicated by the arrow above the line. The gene is divided into 10 exons, numbered 1 to 10, and 9 introns, numbered 1 to 9. The gene is flanked by the *hpaA* promoter (P) and the *hpaA* terminator (T).

Restriction enzyme sites are indicated by vertical lines with labels above them:

- AfeI** (AfeI restriction site) is located at position 4615.
- MfeI** (MfeI restriction site) is located at position 5005.
- HpaI** (HpaI restriction site) is located at position 5070.

The DNA sequence is shown in the following table:

Position	DNA Sequence
4615	CGACGGACTCCGACCTGCTGGAGCGCCTCAAGATGGCCGTCACGTTTAGGCAGCCGTAGGTCCTT
4680	ACCAGCAGCGGCTATCCGCGCATCCATGCCCCGAACTGCAGGAGTGGGGAGGCACGATGGCCGC
4745	TTTGGTCGACCCGGACGGGACGCTCCTGCGCCTGATACAGAACGAATTGCTTGCAGGCATCTCAT
4810	GAGTGTGTCTTCCCGTTTTCCGCCTGAGGTCACTGCGTGGATGGAGCGCTGGCGCCTGCTGCGCG
4875	ACGGCGAGCTGCTCACCACCCACTCGCCAAGCTGGAACCGTAAAAAGGCCGCGTTGCTGGCGTTT
4940	TTCCATAGGCTCCGCCGATCATAATCAGCCATACCACATTTGTAGAGGTTTTACTTGCTTTAAAA
5005	AACCTCCCACACCTCCCCCTGAACCTGAAACATAAAATGAATGCAATTGTTGTTGTTAACTTGTT
5070	TATTGCAGCTTATAATGGTTACAAATAAAGCAATAGCATCACAAATTCACAAATAAAGCATTTT
5135	TTTCACTGCATTCTAGTTGTGGTTTGTCCAAACTCATCAATGTATCTTATCATGTCTGGATCAAT
5200	TCCCTATAGTGAGTCGTATTAAATTCGTAATCATGTCATAGCTGTTTCCTGTGTGAAATTGTTAT
5265	CCGCTCACAAATTCACACAACATACGAGCCGGAAGCATAAAGTGTAAGCCTGGGGTGCTAATG
5330	AGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTGCCGCTTTCCAGTCGGGAAACCTGTCTG

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CGAAGGAGCGAGTGACTGAGCGACGCGAGCCAGCAAGCCGACGCCGCTCGCCATAGTCGAGTGAG	
AAAGGCGGTAAATACGGTTATCCACAGAATCAGGGGATAACGCAGGAAAGAACATGTGAGCAAAAG	5525
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GCCAGCAAAAGGCCAGGAACCGTAAAAAGGCCGCGTTGCTGGCGTTTTTCCATAGGCTCCGCCCC	5590
CGGTCTGTTTTCCGGTCTTGGCATTTTTCCGGCGCAACGACCGCAAAAAGGTATCCGAGGCGGGG	
CCTGACGAGCATCACAAAAATCGACGCTCAAGTCAGAGGTGGCGAAACCCGACAGGACTATAAAG	5655
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PciI
AflIII

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 6305
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 6955

XmnI

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 AAATTTAACGCGAATTTTAACAAAATATTAACGCTTACAATTT 3'
 TTTAAATTGCGCTTAAAATTGTTTATAATTGCGAATGTTAAA 5'

••• 7778

DNA Type: Synthetic DNA

Laboratory Host Organism:

Bacterial Transformation Strain: Unspecified
Dam⁺ Dcm⁺ EcoKI⁺

Description: Ligation of inverted Not1-EWS/FLI1-stop-EcoRV digested into p3xFLAG-CMV-10 not1-EcoRV digested

Created: Aug 20, 2018

Last Modified: Aug 20, 2018

Accession Number:

Code Number:

Sequence Author:

Comments:

References:

Embedded Files: