

pCC2FOS™ Sequencing Primers

Cat. Nos. HTFP061 and HTRP062

pCC2™ Forward Sequencing Primer

5' - GTACAACGACACCTAGAC - 3'

Product Specifications

Storage: Store at -20°C.

Concentration: 1 nmol @ 50 µM.....20 µl
in TE Buffer (10 mM Tris-HCl [pH 7.5], 1 mM EDTA).

Length: 18 nucleotides

G+C content: 9

Molecular Weight: 5,462 daltons

Temperatures of Dissociation & Melting:

T_d : 48°C (nearest neighbor method)

T_m : 64°C (% G+C method)

T_m : 54°C ([2 (A+T) + 4 (G+C)] method)

T_m : 58°C ((81.5 + 16.6 (log [Na⁺])) +
([41 (#G+C) - 500] / length) method)

where [Na⁺] = 0.1 M

pCC2™ Reverse Sequencing Primer

5' - CAGGAAACAGCCTAGGAA - 3'

Product Specifications

Storage: Store at -20°C.

Concentration: 1 nmol @ 50 µM20 µl
in TE Buffer (10 mM Tris-HCl [pH 7.5], 1 mM EDTA).

Length: 18 nucleotides

G+C content: 9

Molecular Weight: 5,551 daltons

Temperatures of Dissociation & Melting:

T_d : 57°C (nearest neighbor method)

T_m : 64°C (% G+C method)

T_m : 54°C ($[(2(A+T) + 4(G+C))] \text{ method}$)

T_m : 58°C ($[(81.5 + 16.6(\log [Na^+])) +$
 $([41(\#G+C) - 500] / \text{length}) \text{ method}]$)

where $[Na^+] = 0.1 \text{ M}$

Quality Control: The primers are function-tested in a DNA cycle sequencing reaction using the SequiTherm EXCEL™ II DNA Sequencing Kit and the pCC2FOS vector as template.

Related Products: The following products are also available:

- FosmidMAX™ DNA Purification Kit
- CopyControl™ BAC Cloning Kits
- CopyControl™ cDNA, Gene & PCR Cloning Kit
- Plasmid-Safe™ ATP-Dependent DNase

Orientation for Fosmid End-Sequencing: The following is the nucleotide sequence of pCC2FOS (bases 360-409) from the pCC2FOS Forward Sequencing Primer (362-379) to the pCC2FOS Reverse Sequencing Primer (403-386) encompassing the *Eco*72 I site (380-385).

360 ACGTACAACG ACACCTAGAC CAC - **Cloned Insert** - GTG TTCC TAGGCTGTTT CCTGGTGGGA

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