

Ferret Orthologue of *Homo sapiens* C1 Inhibitor, Reverse Primer

Catalog No. NR-8080

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Product Description: NR-8080 pairs with NR-8079 to amplify the ferret (*Mustela putorius furo*) orthologue of *Homo sapiens* C1 inhibitor. C1 inhibitor is a serpin peptidase inhibitor, clade G, member 1 (NCBI GeneID: 710).

Lot: 1006

Manufacturing Date: 14MAY2007

TEST	SPECIFICATIONS	RESULTS
PCR Amplification¹ Recommended primer concentration Observed C _T Product T _m	Report results Report results Report results	500 nM 26.7 (see Figure 1) 85.5°C (see Figure 2)
Amplification and Sequence Verification²	C1 inhibitor	C1 inhibitor
Content (OD₂₆₀)	Report results	1.53
Content (µg)	Report results	52.61
Content (pmol)	Report results	8660.24
Volume Needed for 100 µM Solution (µL)	Report results	86.60
Purity by HPLC	> 75%	86.06% (see Figure 3)

¹Real-time PCR assay with a standard cDNA template derived from mitogen-activated ferret (*Mustela putorius furo*) PBMCs, splenocytes and lung tissue.

²The PCR product of the target gene was cloned into pCR[®]2.1-TOPO[®]. Plasmid DNA was sequenced using the M13 reverse primer. Sequence identities were verified by BLASTN analysis against the NCBI database.

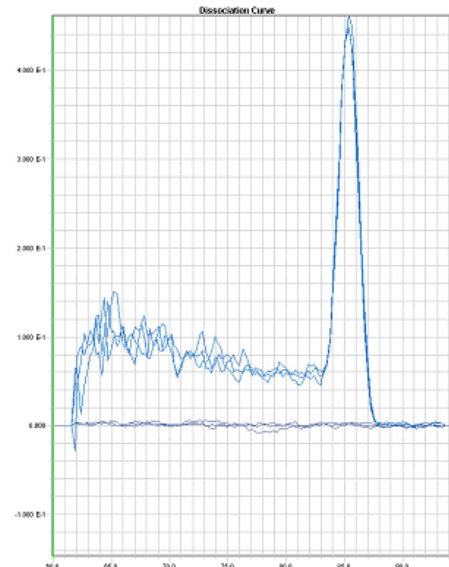
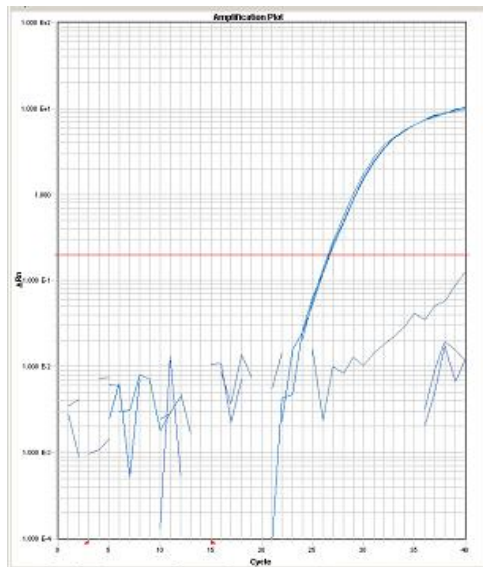


Figure 1. Amplicon amplification (ΔR_h versus Cycle Number). Figure 2. Amplicon dissociation (Derivative versus Temperature ($^{\circ}C$)).

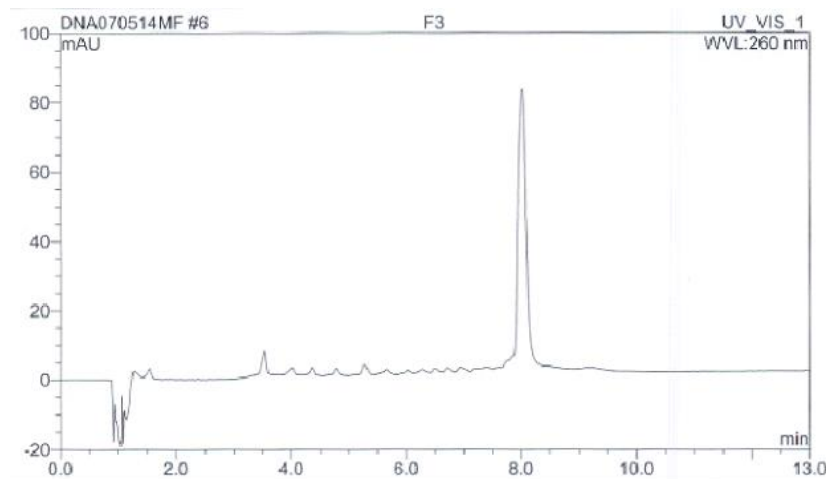


Figure 3. HPLC trace of purified oligonucleotide (Absorbance versus Elution Time).

Date: 18 DEC 2007

Signature: Signature on File

Title: Technical Manager, BEI Authentication or designee

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