

Ferret Orthologue of *Homo sapiens* CD4, Forward Primer

Catalog No. NR-8099

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Product Description: NR-8099 pairs with NR-8100 to amplify the ferret (*Mustela putorius furo*) orthologue of *Homo sapiens* CD4 (CD4 molecule) (NCBI GeneID: 920).

Lot: 1025

Manufacturing Date: 14JUN2007

TEST	SPECIFICATIONS	RESULTS
PCR Amplification¹ Recommended primer concentration Observed C _T Product T _m	Report results Report results Report results	300 nM 32.1 (see Figure 1) 79.5°C (see Figure 2)
Amplification and Sequence Verification²	CD4	CD4
Content (OD₂₆₀)	Report results	1.74
Content (µg)	Report results	57.44
Content (pmol)	Report results	8979.07
Volume Needed for 100 µM Solution (µL)	Report results	89.79
Purity by HPLC	> 75%	88.43% (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.

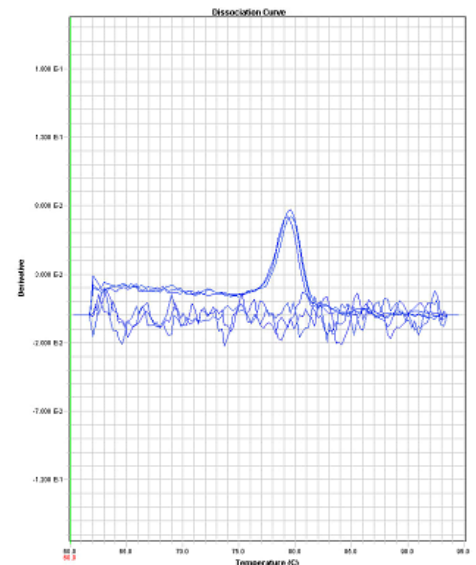
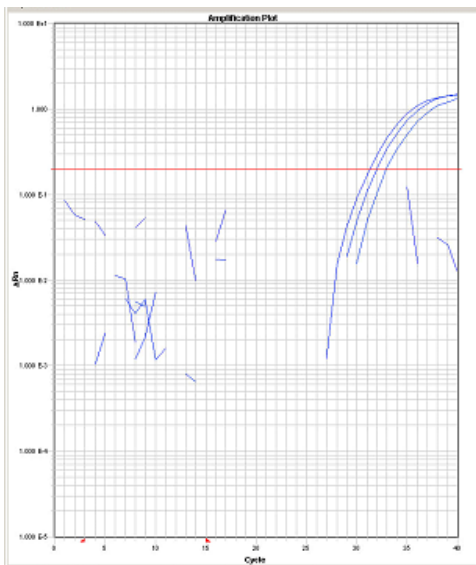


Figure 1. Amplicon amplification (ΔR_h versus Cycle Number). Figure 2. Amplicon dissociation (Derivative versus Temperature ($^{\circ}C$)).

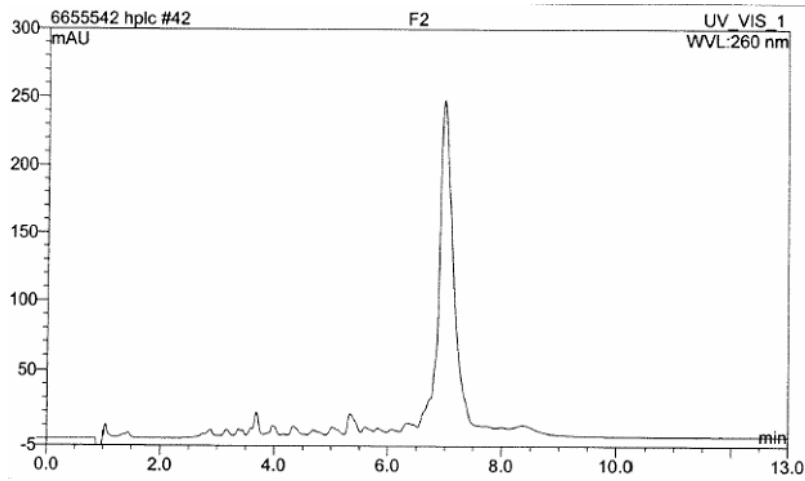


Figure 3. HPLC trace of purified oligonucleotide (Absorbance versus Elution Time).

Date: 20 DEC 2007

Signature: Signature on File

Title: Technical Manager, BEI Authentication or designee

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