

Ferret Orthologue of *Homo sapiens* IL4, Forward Primer

Catalog No. NR-8151

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Product Description: NR-8151 pairs with NR-8152 to amplify the ferret (*Mustela putorius furo*) orthologue of *Homo sapiens* IL4 (interleukin 4), (NCBI GeneID: 3565).

Lot: 1077

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 27 (see Figure 1) 75°C (see Figure 2)
Amplification and Sequence Verification²	IL4	IL4
Content (OD₂₆₀)	Report results	1.39
Content (µg)	Report results	4698.58
Content (pmol)	Report results	8266.70
Volume Needed for 100 µM Solution (µL)	Report results	82.67
Purity by HPLC	> 75%	88.33% (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.

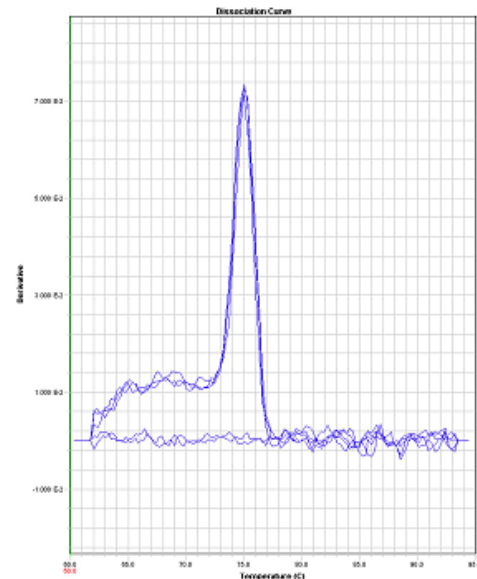
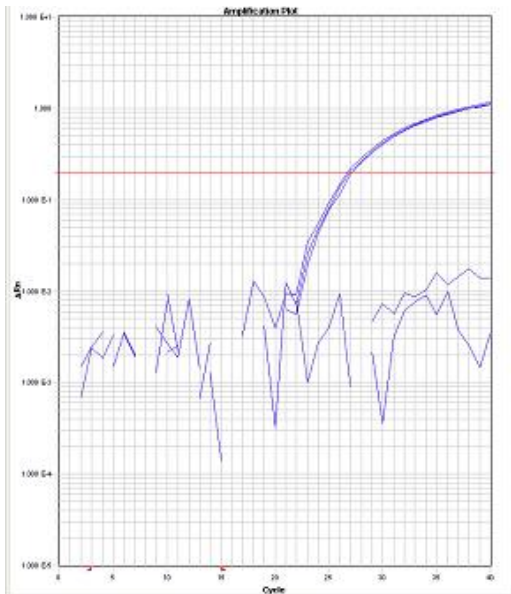


Figure 1. Amplicon amplification (ΔR_h versus Cycle Number).

Figure 2. Amplicon dissociation (Derivative versus Temperature ($^{\circ}\text{C}$)).

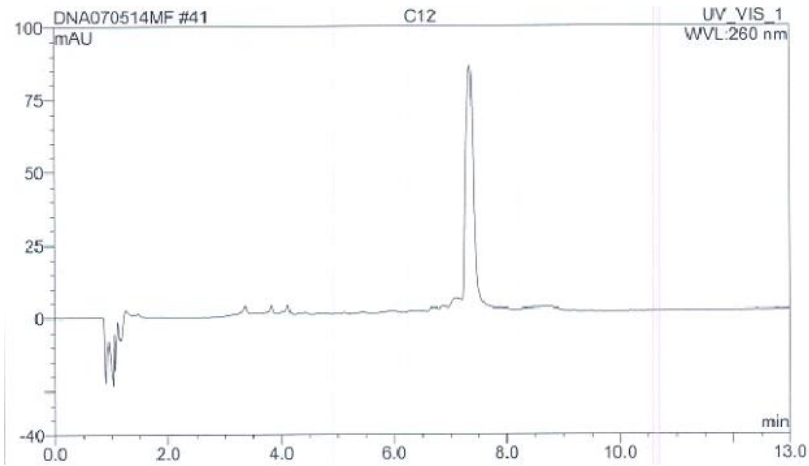


Figure 3. HPLC trace of purified oligonucleotide (Absorbance versus Elution Time).

Date: 17 AUG 2008

Signature: Signature on File

Title: Technical Manager, BEI Authentication or designee

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