

Ferret Orthologue of *Homo sapiens* HLA-DRA, Forward Primer

Catalog No. NR-8115

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Product Description: NR-8115 pairs with NR-8116 to amplify the ferret (*Mustela putorius furo*) orthologue of *Homo sapiens* HLA-DRA (major histocompatibility complex, class II, DR alpha), (NCBI GeneID: 3122).

Lot: 1041

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 22.8 (see Figure 1) 80°C (see Figure 2)
Amplification and Sequence Verification²	HLA-DRA	HLA-DRA
Content (OD₂₆₀)	Report results	1.8359
Content (µg)	Report results	58.73
Content (pmol)	Report results	8813.92
Volume Needed for 100 µM Solution (µL)	Report results	88.13
Purity by HPLC	> 75%	93.83% (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.

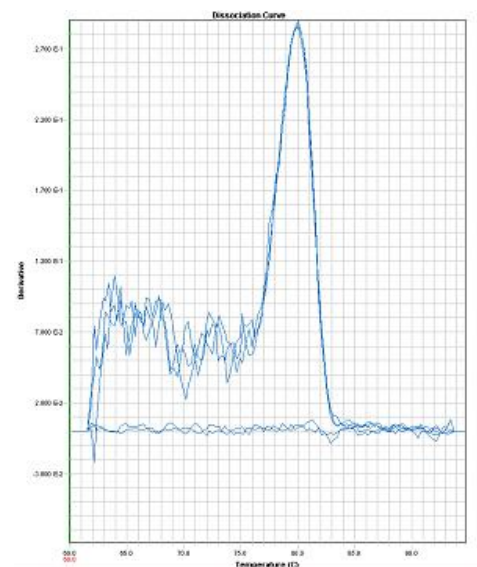
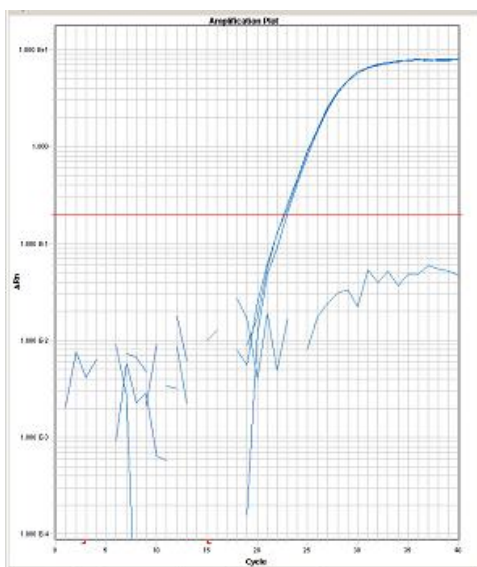


Figure 1. Amplicon amplification (ΔR_h versus Cycle Number).

Figure 2. Amplicon dissociation (Derivative versus Temperature (°C)).

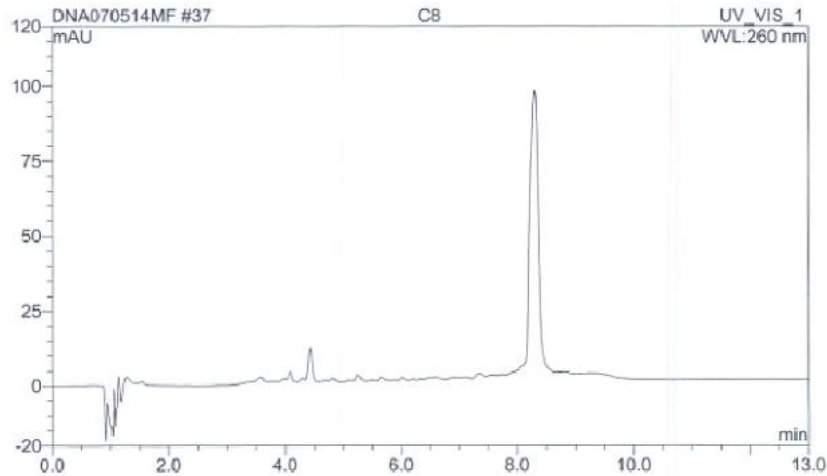


Figure 3. HPLC trace of purified oligonucleotide (Absorbance versus Elution Time)

Date: 16 JAN 2008

Signature: Signature on File

Title: Technical Manager, BEI Authentication or designee

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