

Ferret Orthologue of *Homo sapiens* IFN-X, Forward Primer

Catalog No. NR-8139

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Product Description: NR-8139 pairs with NR-8140 to amplify the ferret (*Mustela putorius furo*) orthologue of *Homo sapiens* IFN-X.

Lot: 1065

Manufacturing Date: 14JUN2007

TEST	SPECIFICATIONS	RESULTS
PCR Amplification¹ Recommended primer concentration Observed C _T Product T _m	Report results Report results Report results	250 nM 22.4 (see Figure 1) 77°C (see Figure 2)
Amplification and Sequence Verification²	IFN-X	IFN-X
Content (OD₂₆₀)	Report results	1.82
Content (µg)	Report results	56.13
Content (pmol)	Report results	9162.79
Volume Needed for 100 µM Solution (µL)	Report results	91.62
Purity by HPLC	> 75%	96.14% (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.

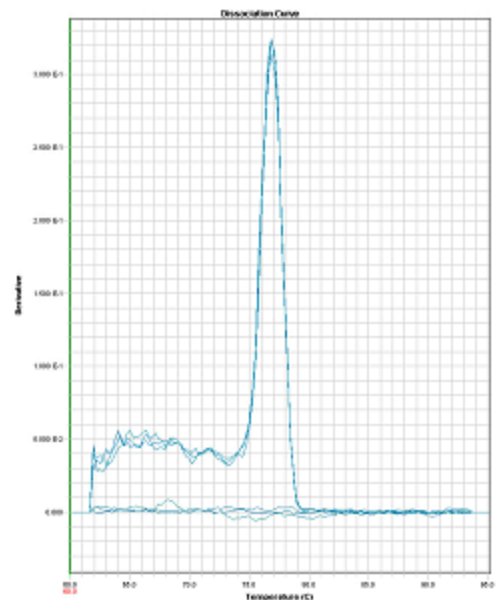
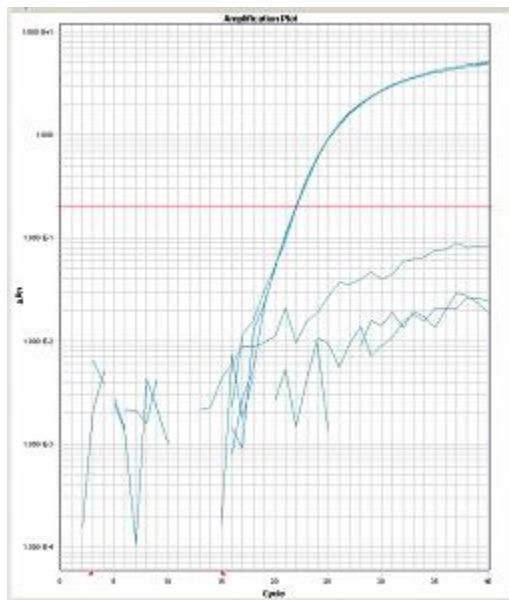


Figure 1. Amplicon amplification (ΔR_h versus Cycle Number).

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

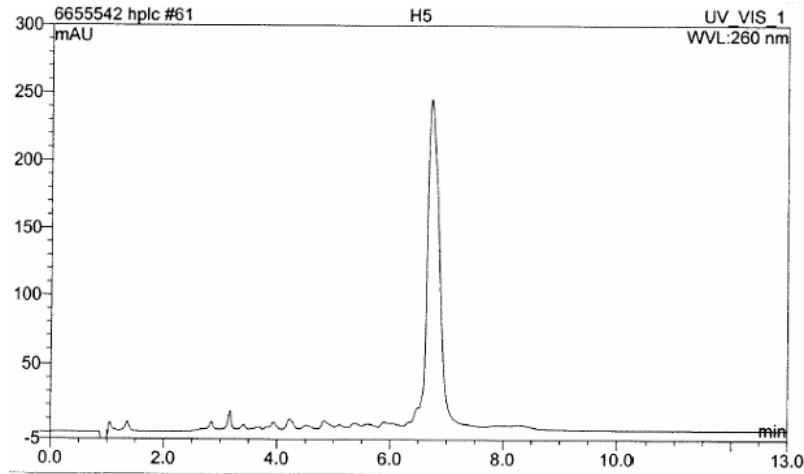


Figure 3. HPLC trace of purified oligonucleotide (Absorbance versus Elution Time).

Date: 16 JAN 2008

Signature: Signature on File

Title: Technical Manager, BEI Authentication or designee

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