

Ferret Orthologue of *Homo sapiens* Hsp40, Reverse Primer

Catalog No. NR-8082

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Product Description: NR-8082 pairs with NR-8081 to amplify the ferret (*Mustela putorius furo*) orthologue of *Homo sapiens* Hsp40 (DnaJ) subfamily B, member 1. Hsp40 is a molecular chaperone (NCBI GeneID: 3337).

Lot: 1008

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 36.5 (see Figure 1) 77°C (see Figure 2)
Amplification and Sequence Verification²	Hsp40	Hsp40
Content (OD₂₆₀)	Report results	1.78
Content (µg)	Report results	56.36
Content (pmol)	Report results	9108.21
Volume Needed for 100 µM Solution (µL)	Report results	91.08
Purity by HPLC	> 75%	85.98% (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.

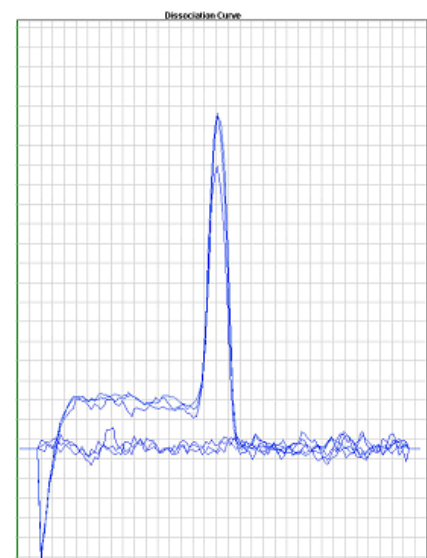
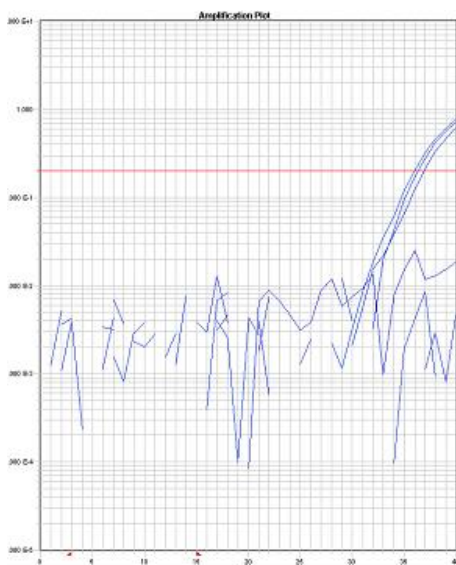


Figure 1. Amplicon amplification (ΔR_h versus Cycle Number). Figure 2. Amplicon dissociation (Derivative versus Temperature ($^{\circ}C$)).

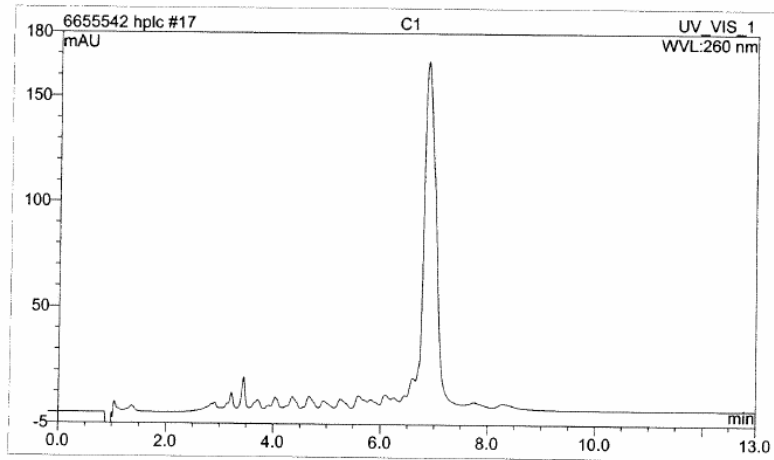


Figure 3. HPLC trace of purified oligonucleotide (Absorbance versus Elution Time).

Date: 18 DEC 2007

Signature: Signature on File

Title: Technical Manager, BEI Authentication or designee

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