

## Ferret Orthologue of Homo sapiens Hsp40, Forward Primer

## Catalog No. NR-8081

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

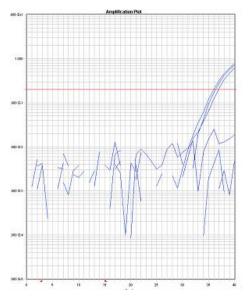
## Lot: 1007

## Manufacturing Date: 14MAY2007

TEST	SPECIFICATIONS	RESULTS
PCR Amplification <sup>1</sup>		
Recommended primer concentration Observed CT Product T <sub>m</sub>	Report results Report results Report results	300 nM 36.5 (see Figure 1) 77°C (see Figure 2)
Amplification and Sequence Verification <sup>2</sup>	Hsp40	Hsp40
Content (OD <sub>260</sub> )	Report results	1.71
Content (µg)	Report results	58.47
Content (pmol)	Report results	9651.42
Volume Needed for 100 µM Solution (µL)	Report results	96.51
Purity by HPLC	> 75%	88.86% (see Figure 3)

<sup>1</sup>Real-time PCR assay with a standard cDNA template derived from mitogen-activated ferret (*Mustela putoris furo*) PBMCs, splenocytes and lung tissue.

<sup>2</sup>The PCR product of the target gene was cloned into pCR<sup>®</sup>2.1-TOPO<sup>®</sup>. Plasmid DNA was sequenced using the M13 reverse primer. Sequence identities were verified by BLASTN analysis against the NCBI database.



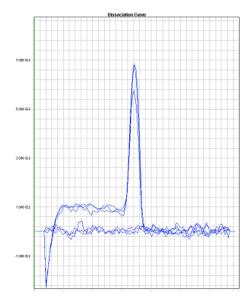


Figure 1. Amplicon amplification ( $\Delta$ Rh versus Cycle Number).

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

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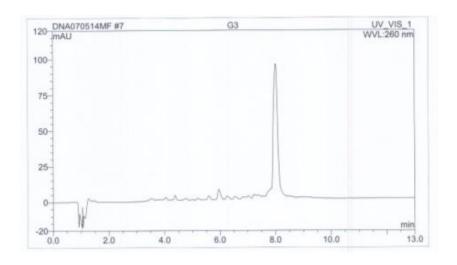


Figure 3. HPLC trace of purified oligonucleotide (Absorbance versus Elution Time).

Date: 18 DEC 2007

Signature: Signature on File

**Title:** Technical Manager, BEI Authentication or designee

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