

## Ferret Orthologue of *Homo sapiens* NFAT5, Forward Primer

### Catalog No. NR-8083

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**Product Description:** NR-8083 pairs with NR-8084 to amplify the ferret (*Mustela putorius furo*) orthologue of *Homo sapiens* NFAT5. NFAT5 is a nuclear factor of activated T-cells 5, tonicity-responsive (NCBI GeneID: 10725).

**Lot: 1009**

**Manufacturing Date: 14MAY2007**

TEST	SPECIFICATIONS	RESULTS
<b>PCR Amplification<sup>1</sup></b> Recommended primer concentration Observed C <sub>T</sub> Product T <sub>m</sub>	Report results Report results Report results	300 nM 22.2 (see Figure 1) 82.5°C (see Figure 2)
<b>Amplification and Sequence Verification<sup>2</sup></b>	NFAT5	NFAT5
<b>Content (OD<sub>260</sub>)</b>	Report results	1.45
<b>Content (µg)</b>	Report results	50.55
<b>Content (pmol)</b>	Report results	8519.90
<b>Volume Needed for 100 µM Solution (µL)</b>	Report results	85.19
<b>Purity by HPLC</b>	> 75%	91.73% (see Figure 3)

<sup>1</sup>Real-time PCR assay with a standard cDNA template derived from mitogen-activated ferret (*Mustela putorius 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.

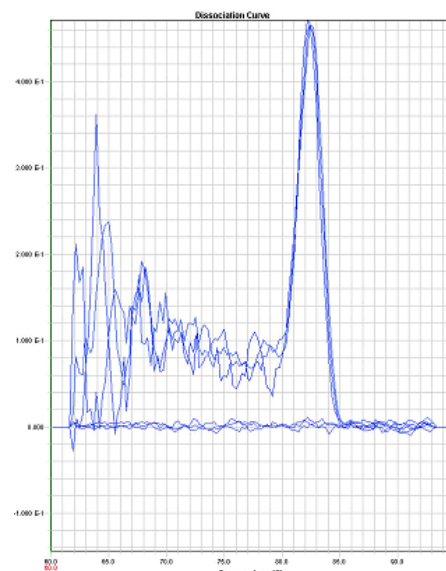
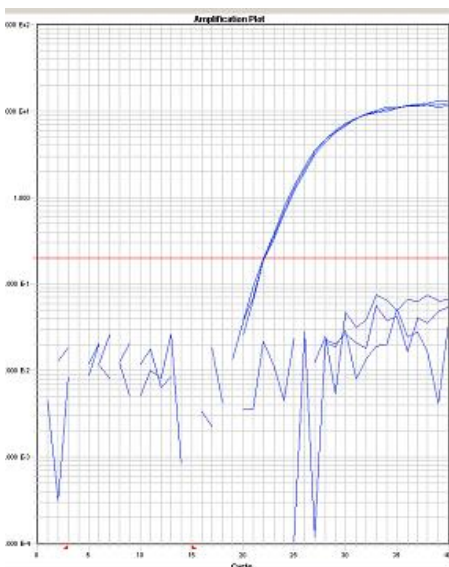


Figure 1. Amplicon amplification ( $\Delta R_h$  versus Cycle Number).

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

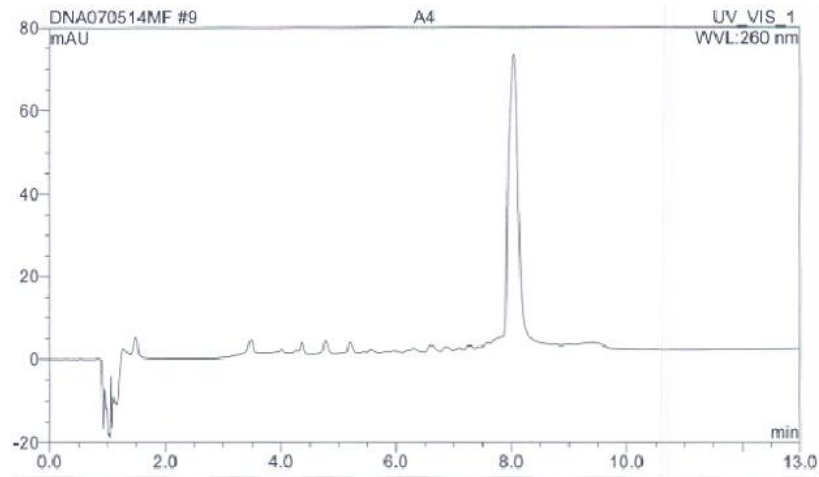


Figure 3. HPLC trace of purified oligonucleotide (Absorbance versus Elution Time).

**Date:** 18 DEC 2007

**Signature:** Signature on File

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

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