

## Ferret Orthologue of *Homo sapiens* TLR7, Reverse Primer

### Catalog No. NR-9533

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**Product Description:** NR-9533 pairs with NR-9532 to amplify the ferret (*Mustela putorius furo*) orthologue of *Homo sapiens* TLR7 (toll-like receptor 7), (NCBI GeneID: 51284).

**Lot: 1204**

**Manufacturing Date: 02JUL2007**

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	500 nM 32.4 (see Figure 1) 78.5°C (see Figure 2)
<b>Amplification and Sequence Verification<sup>2</sup></b>	TLR7	TLR7
<b>Content (OD<sub>260</sub>)</b>	Report results	2.16
<b>Content (µg)</b>	Report results	66.02
<b>Content (pmol)</b>	Report results	10975
<b>Volume Needed for 100 µM Solution (µL)</b>	Report results	109.8
<b>Purity by HPLC</b>	> 75%	> 95% (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.

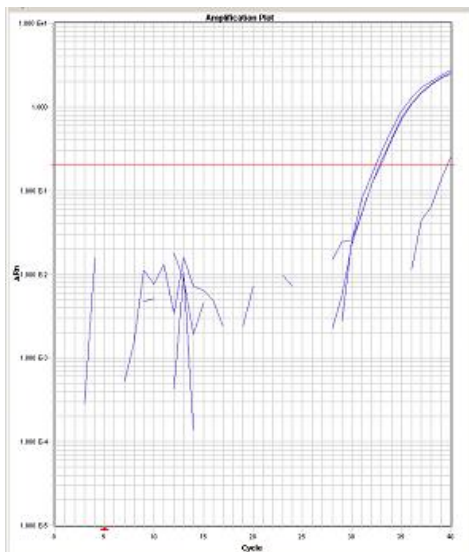


Figure 1. Amplicon amplification ( $\Delta R_h$  versus Cycle Number).

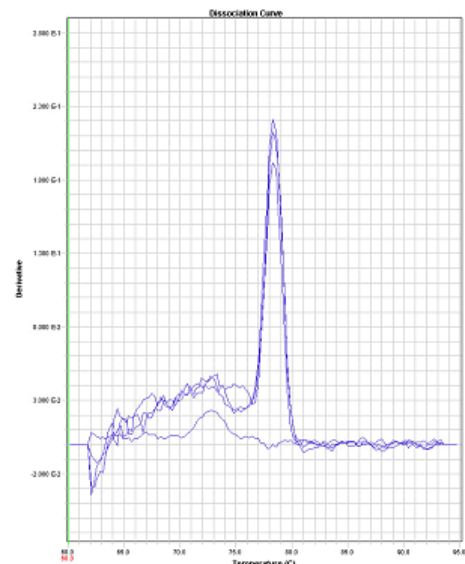


Figure 2. Amplicon dissociation (Derivative versus Temperature (°C)).

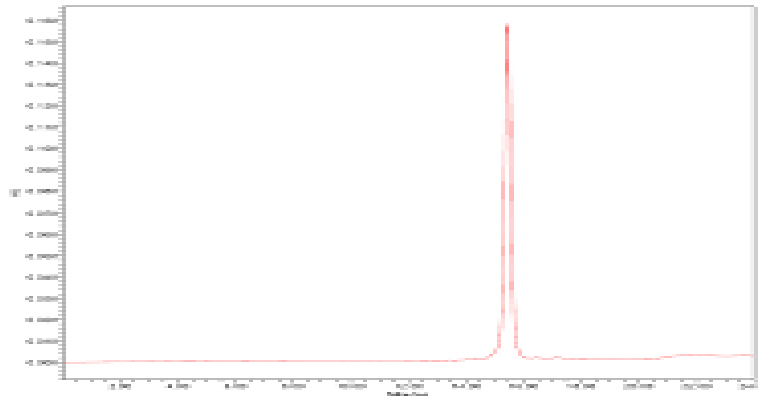


Figure 3. HPLC trace of purified oligonucleotide (Absorbance versus Elution Time).

**Date:** 25 FEB 2008

**Signature:** Signature on File

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

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