

Ferret Orthologue of *Homo sapiens* TLR4, Reverse Primer

Catalog No. NR-8192

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Product Description: NR-8192 pairs with NR-8191 to amplify the ferret (*Mustela putoris furo*) orthologue of *Homo sapiens* TLR4 (toll-like receptor 4), (NCBI GeneID: 7099).

Lot: 1118

Manufacturing Date: 14MAY2007

TEST	SPECIFICATIONS	RESULTS
PCR Amplification¹ Recommended primer concentration Observed C _T Product T _m	Report results Report results Report results	500 nM 26.1 (see Figure 1) 81.5°C (see Figure 2)
Amplification and Sequence Verification²	TLR4	TLR4
Content (OD₂₆₀)	Report results	1.67
Content (µg)	Report results	50.93
Content (pmol)	Report results	8261.03
Volume Needed for 100 µM Solution (µL)	Report results	82.61
Purity by HPLC	> 75%	89.97% (see Figure 3)

¹Real-time PCR assay with a standard cDNA template derived from mitogen-activated ferret (*Mustela putoris 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.

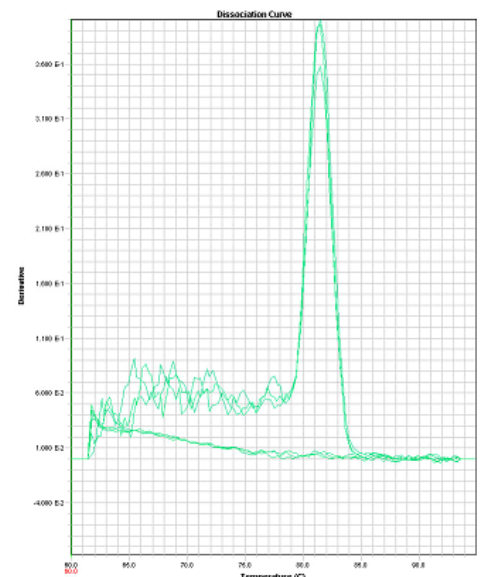


Figure 1. Amplicon amplification (ΔRh versus Cycle Number).

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

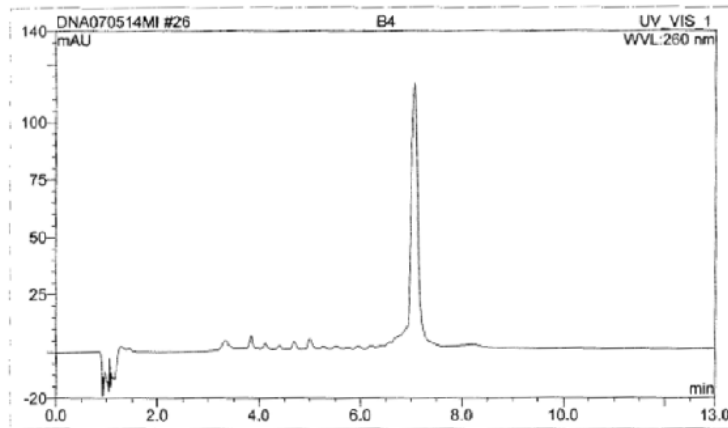


Figure 3. HPLC trace of purified oligonucleotide (Absorbance versus Elution Time).

Date: 31 JAN 2008

Signature: Signature on File

Title: Technical Manager, BEI Authentication or designee

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