

Ferret Orthologue of *Homo sapiens* TLR3, Forward Primer

Catalog No. NR-8179

This reagent is the tangible property of the U.S. Government.

Product Description: NR-8179 pairs with NR-8180 to amplify the ferret (*Mustela putorius furo*) orthologue of *Homo sapiens* TLR3 (toll-like receptor 3), (NCBI GeneID: 7098).

Lot: 1105

Manufacturing Date: 03JUL2007

| TEST | SPECIFICATIONS | RESULTS |
|---|--|--|
| PCR Amplification¹ Recommended primer concentration Observed C _T Product T _m | Report results Report results Report results | 500 nM 26.5 (see Figure 1) 77.5°C (see Figure 2) |
| Amplification and Sequence Verification² | TLR3 | TLR3 |
| Content (OD₂₆₀) | Report results | 1.08 |
| Content (µg) | Report results | 33.03 |
| Content (pmol) | Report results | 5455.45 |
| Volume Needed for 100 µM Solution (µL) | Report results | 54.55 |
| Purity by HPLC | > 75% | 86.97% (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.

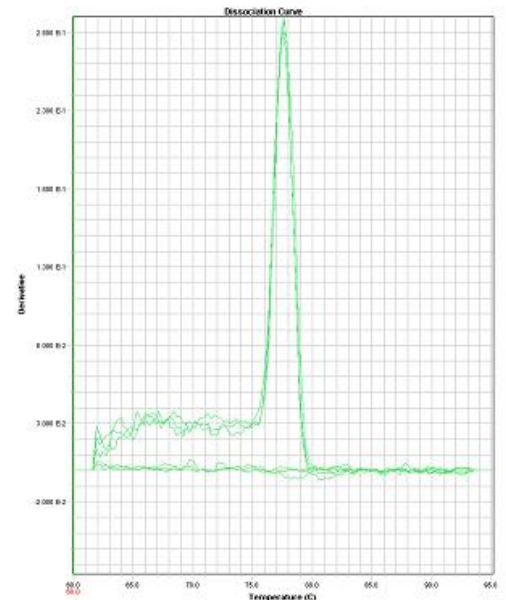
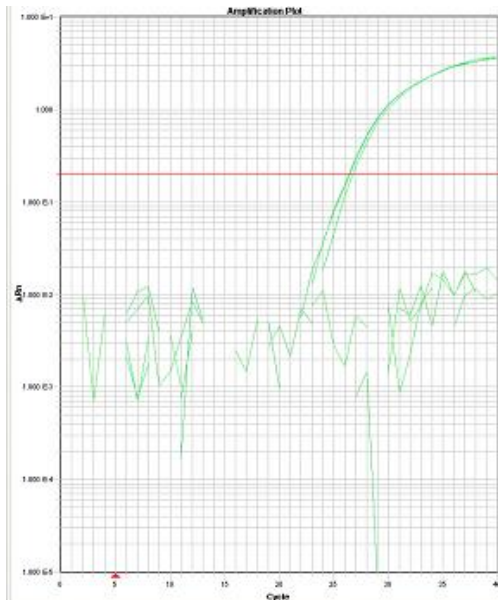


Figure 1. Amplicon amplification (ΔRh versus Cycle Number).

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

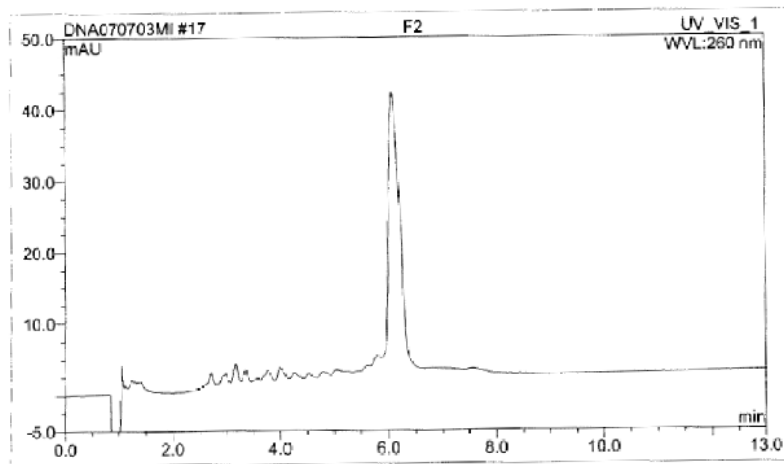


Figure 3. HPLC trace of purified oligonucleotide (Absorbance versus Elution Time).

Date: 31 JAN 2008

Signature: Signature on File

Title: Technical Manager, BEI Authentication or designee

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