

Ferret Orthologue of *Homo sapiens* TLR2, Reverse Primer

Catalog No. NR-8124

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

Product Description: NR-8124 pairs with NR-8123 to amplify the ferret (*Mustela putorius furo*) orthologue of *Homo sapiens* TLR2 (toll-like receptor 2), (NCBI GeneID: 7097).

Lot: 1050

Manufacturing Date: 14JUN2007

| TEST | SPECIFICATIONS | RESULTS |
|---|--|--|
| PCR Amplification¹ Recommended primer concentration Observed C _T Product T _m | Report results Report results Report results | 500 nM 32 (see Figure 1) 77°C (see Figure 2) |
| Amplification and Sequence Verification² | TLR2 | TLR2 |
| Content (OD₂₆₀) | Report results | 1.7835 |
| Content (µg) | Report results | 61.81 |
| Content (pmol) | Report results | 8866.17 |
| Volume Needed for 100 µM Solution (µL) | Report results | 88.66 |
| Purity by HPLC | > 75% | 86.39% (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.

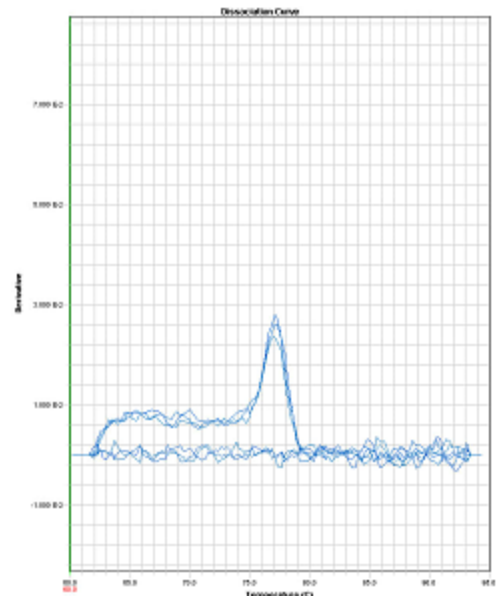
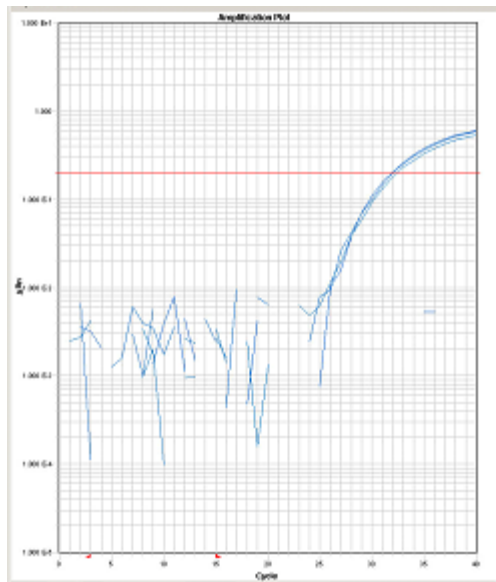


Figure 1. Amplicon amplification (ΔR_h versus Cycle Number).

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

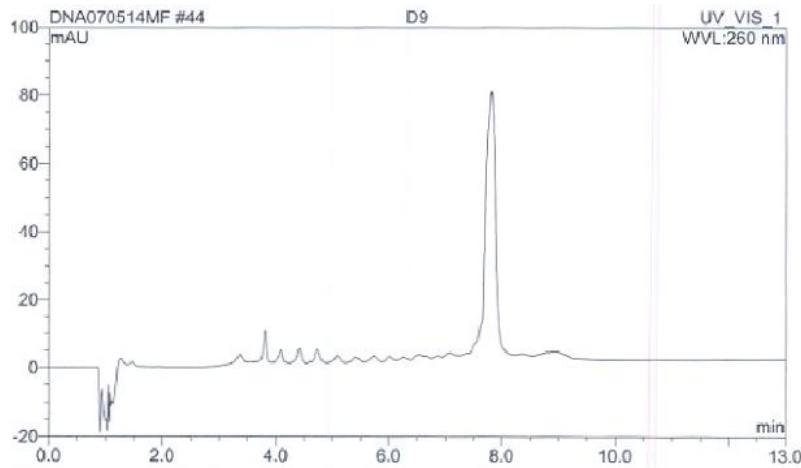


Figure 3. HPLC trace of purified oligonucleotide (Absorbance versus Elution Time).

Date: 16 JAN 2008

Signature: Signature on File

Title: Technical Manager, BEI Authentication or designee

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