

Ferret Orthologue of *Homo sapiens* IL1B, Forward Primer

Catalog No. NR-8149

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Product Description: NR-8149 pairs with NR-8150 to amplify the ferret (*Mustela putorius furo*) orthologue of *Homo sapiens* IL1B (interleukin 1, beta), (NCBI GenID: 3553).

Lot: 1075

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 25.2 (see Figure 1) 79.5°C (see Figure 2) |
| Amplification and Sequence Verification² | IL1B | IL1B |
| Content (OD₂₆₀) | Report results | 1.81 |
| Content (µg) | Report results | 53.27 |
| Content (pmol) | Report results | 7540.26 |
| Volume Needed for 100 µM Solution (µL) | Report results | 75.40 |
| Purity by HPLC | > 75% | 91.85% (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.

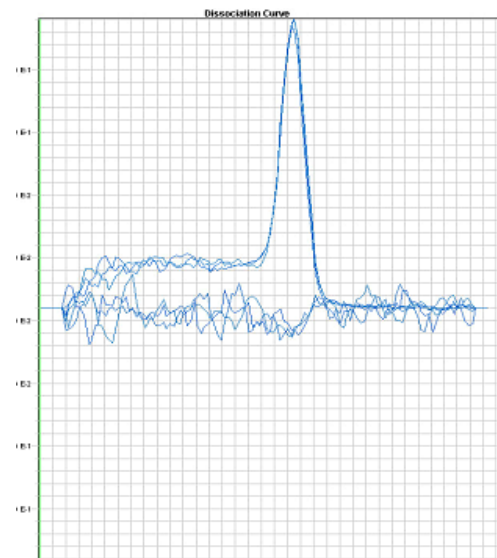
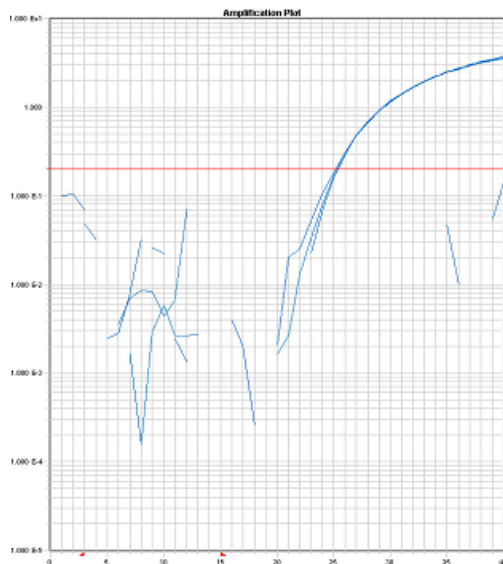


Figure 1. Amplicon amplification (ΔR_h versus Cycle Number).

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

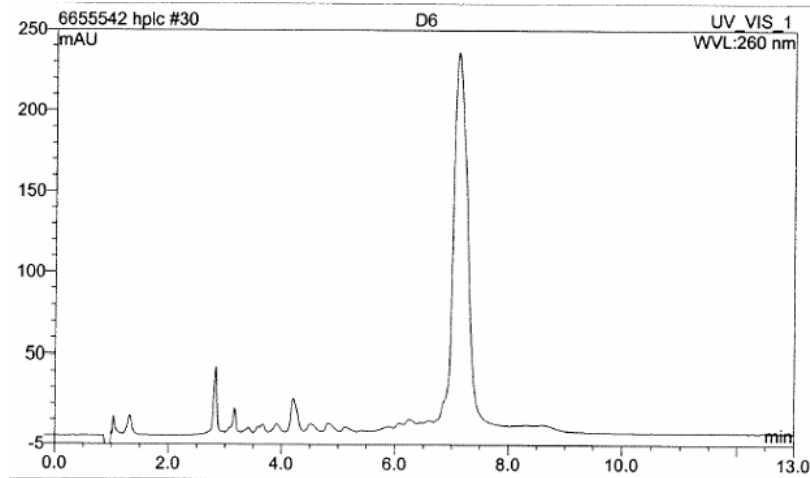


Figure 3. HPLC trace of purified oligonucleotide (Absorbance versus Elution Time).

Date: 17 JAN 2008

Signature: Signature on File

Title: Technical Manager, BEI Authentication or designee

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