

Ferret Orthologue of *Homo sapiens* STAT3, Forward Primer

Catalog No. NR-8121

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Product Description: NR-8121 pairs with NR-8122 to amplify the ferret (*Mustela putorius furo*) orthologue of *Homo sapiens* STAT3 (signal transducer and activator of transcription 3 (acute-phase response factor)), (NCBI GeneID: 6774).

Lot: 1047

Manufacturing Date: 14MAY2007

TEST	SPECIFICATIONS	RESULTS
PCR Amplification¹ Recommended primer concentration Observed C _T Product T _m	Report results Report results Report results	250 nM 24.2 (see Figure 1) 83.5°C (see Figure 2)
Amplification and Sequence Verification²	STAT3	STAT3
Content (OD₂₆₀)	Report results	1.76
Content (µg)	Report results	52.60
Content (pmol)	Report results	8674.14
Volume Needed for 100 µM Solution (µL)	Report results	86.74
Purity by HPLC	> 75%	85.22% (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.

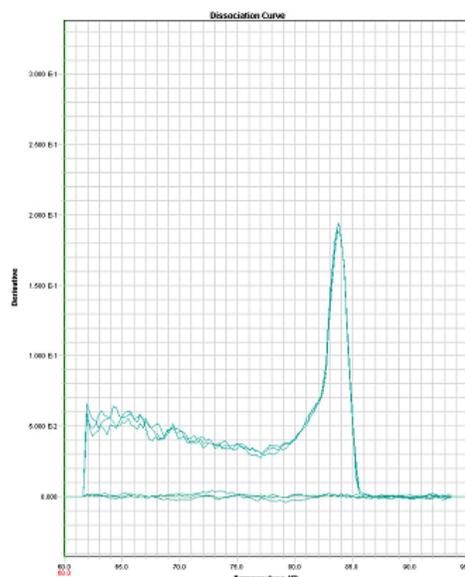
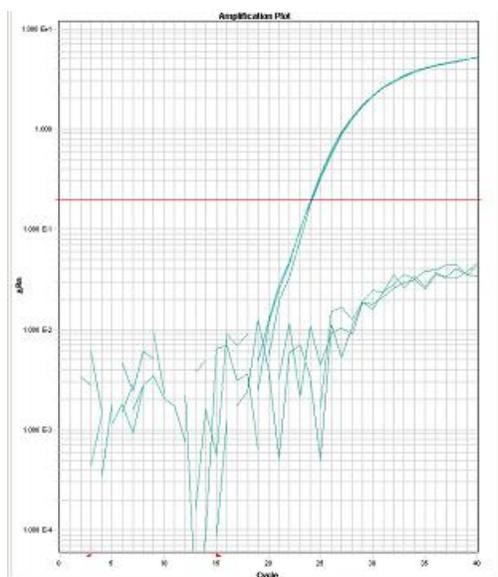


Figure 1. Amplicon amplification (ΔR_h versus Cycle Number).

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

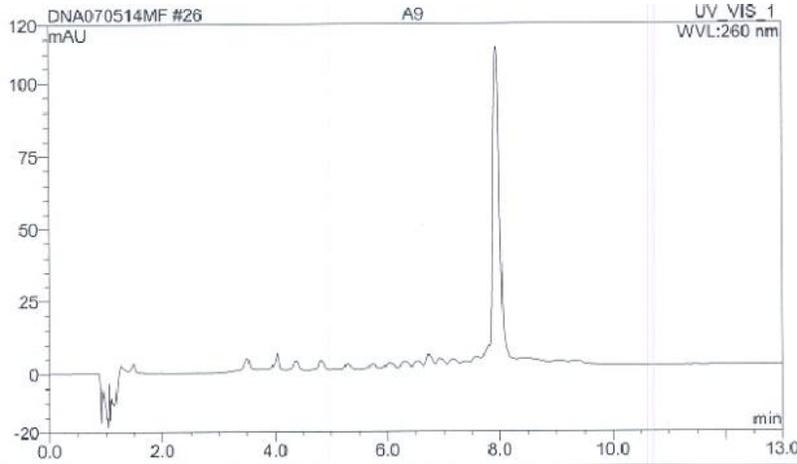


Figure 3. HPLC trace of purified oligonucleotide (Absorbance versus Elution Time).

Date: 16 JAN 2008

Signature: Signature on File

Title: Technical Manager, BEI Authentication or designee

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