

Ferret Orthologue of *Homo sapiens* STAT3, Reverse Primer

Catalog No. NR-8122

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

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

Lot: 1048

Manufacturing Date: 03JUL2007

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	1.23
Content (µg)	Report results	3893.16
Content (pmol)	Report results	6455.29
Volume Needed for 100 µM Solution (µL)	Report results	64.55
Purity by HPLC	> 75%	86.43% (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.

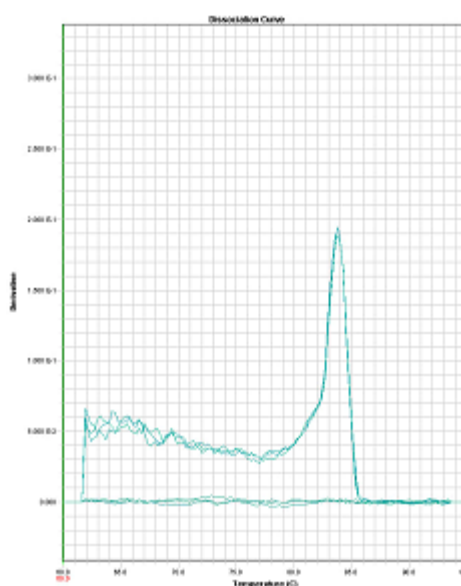
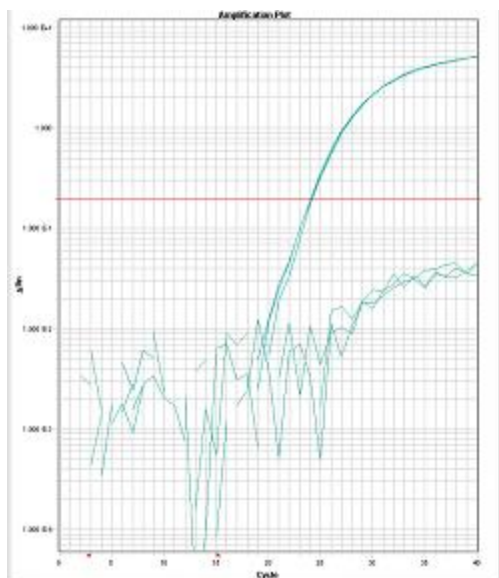


Figure 1. Amplicon amplification (ΔR_h versus Cycle Number).

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

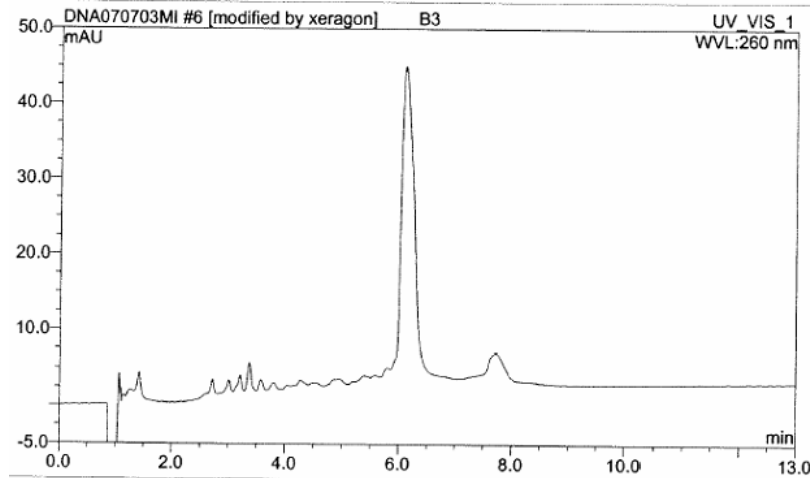


Figure 3. HPLC trace of purified oligonucleotide (Absorbance versus Elution Time).

Date: 16 JAN 2008

Signature: Signature on File

Title: Technical Manager, BEI Authentication or designee

ATCC[®], on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected by the contractor to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC[®]'s knowledge.

ATCC[®] is a trademark of the American Type Culture Collection.

You are authorized to use this product for research use only. It is not intended for human use.

