

**Ferret Orthologue of *Homo sapiens* MX1, Reverse Primer**

**Catalog No. NR-8148**

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

**Product Description:** NR-8148 pairs with NR-8147 to amplify the ferret (*Mustela putorius furo*) orthologue of *Homo sapiens* MX1. MX1 is a myxovirus (influenza virus) resistance 1, interferon-inducible protein p78, (NCBI GeneID: 4599).

**Lot: 1074**

**Manufacturing Date: 14MAY2007**

TEST	SPECIFICATIONS	RESULTS
<b>PCR Amplification</b> Recommended primer concentration Observed C <sub>T</sub> Product T <sub>m</sub>	Report results Report results Report results	300 nM 22.3 (see Figure 1) 85.5°C (see Figure 2)
<b>Amplification and Sequence Verification<sup>2</sup></b>	MX1	MX1
<b>Content (OD<sub>260</sub>)</b>	Report results	1.74
<b>Content (µg)</b>	Report results	54.45
<b>Content (pmol)</b>	Report results	8844.95
<b>Volume Needed for 100 µM Solution (µL)</b>	Report results	88.45
<b>Purity by HPLC</b>	> 75%	90.70% (see Figure 3)

<sup>1</sup>Real-time PCR assay with a standard cDNA template derived from mitogen-activated ferret (*Mustela putorius furo*) PBMCs, splenocytes and lung tissue.

<sup>2</sup>The PCR product of the target gene was cloned into pCR<sup>®</sup>2.1-TOPO<sup>®</sup>. Plasmid DNA was sequenced using the M13 reverse primer. Sequence identities were verified by BLASTN analysis against the NCBI database.

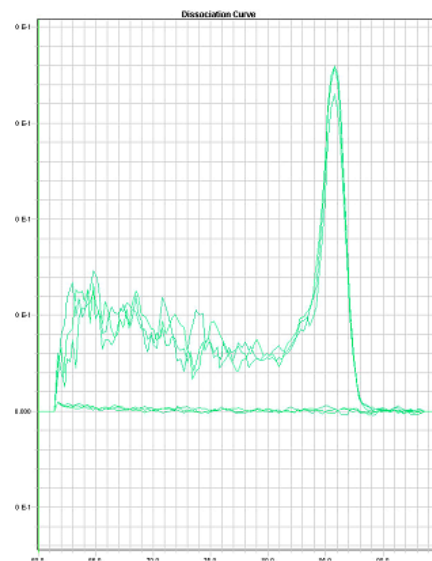
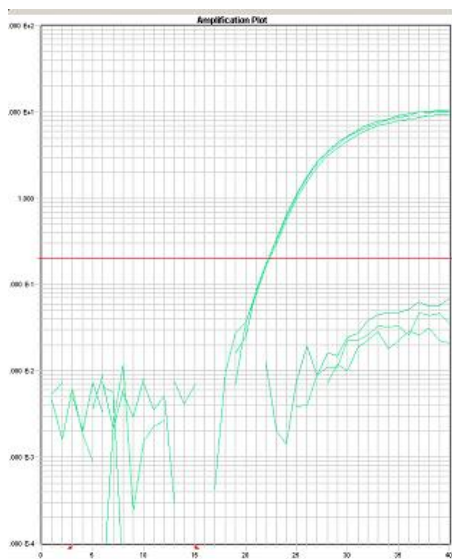


Figure 1. Amplicon amplification ( $\Delta R_h$  versus Cycle Number).

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

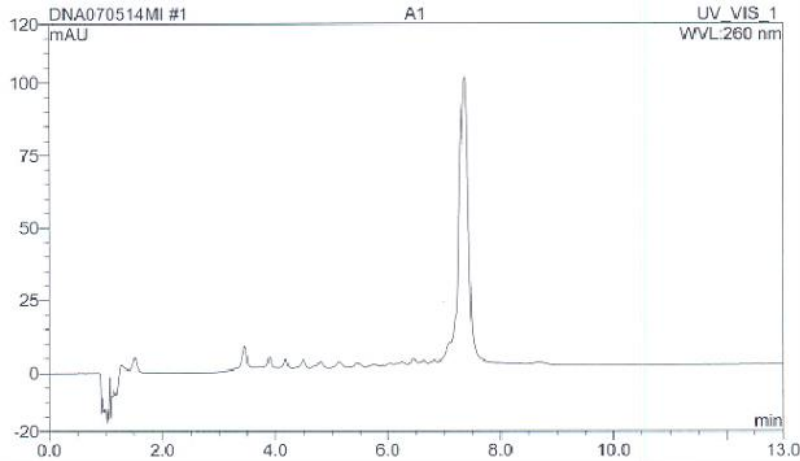


Figure 3. HPLC trace of purified oligonucleotide (Absorbance versus Elution Time).

**Date:** 17 JAN 2008

**Signature:** Signature on File

**Title:** Technical Manager, BEI Authentication or designee

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