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Ferret Orthologue of *Homo sapiens* CRLF2, Reverse Primer

Catalog No. NR-8110
This reagent is the tangible property of the U.S. Government.

Product Description: NR-8110 pairs with NR-8109 to amplify the ferret (*Mustela putoris furo*) orthologue of *Homo sapiens* CRLF2 (cytokine receptor-like factor 2), (NCBI GeneID: 64109).

Lot: 1036   **Manufacturing Date: 14MAY2007**

TEST	SPECIFICATIONS	RESULTS
PCR Amplification[1]		
Recommended primer concentration	Report results	500 nM
Observed C_T	Report results	25.7 (see Figure 1)
Product T_m	Report results	77°C (see Figure 2)
Amplification and Sequence Verification[2]	CRLF2	CRLF2
Content (OD_{260})	Report results	1.608
Content (µg)	Report results	52.16
Content (pmol)	Report results	8525.58
Volume Needed for 100 µM Solution (µL)	Report results	85.25
Purity by HPLC	> 75%	87.92% (see Figure 3)

[1]Real-time PCR assay with a standard cDNA template derived from mitogen-activated ferret (*Mustela putoris furo*) PBMCs, splenocytes and lung tissue.

[2]The 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.
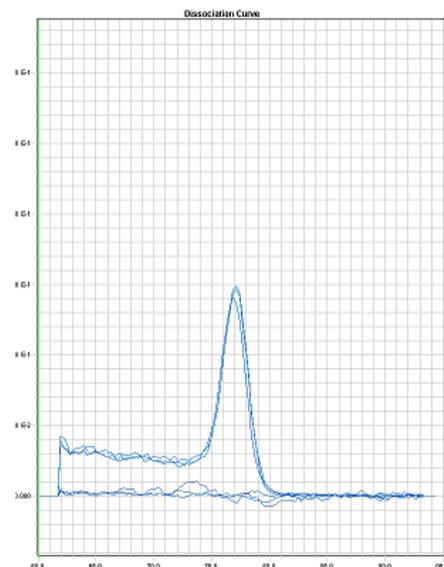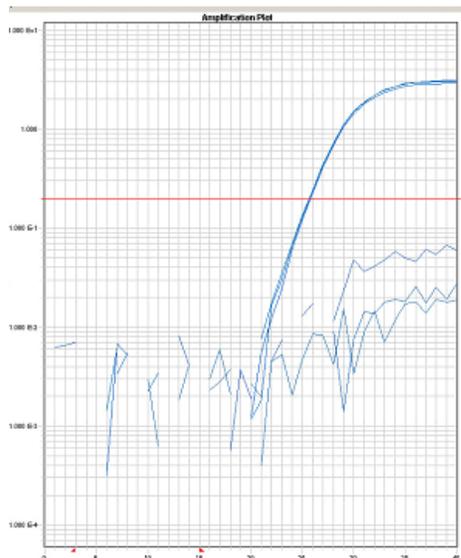

Figure 1. Amplicon amplification (ΔRh versus Cycle Number).

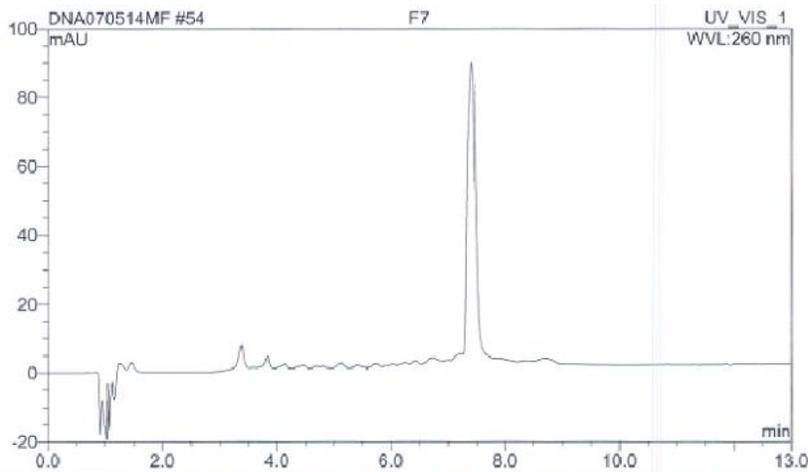Figure 2. Amplicon dissociation (Derivative versus Temperature (°C)).

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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Page 2 of 2