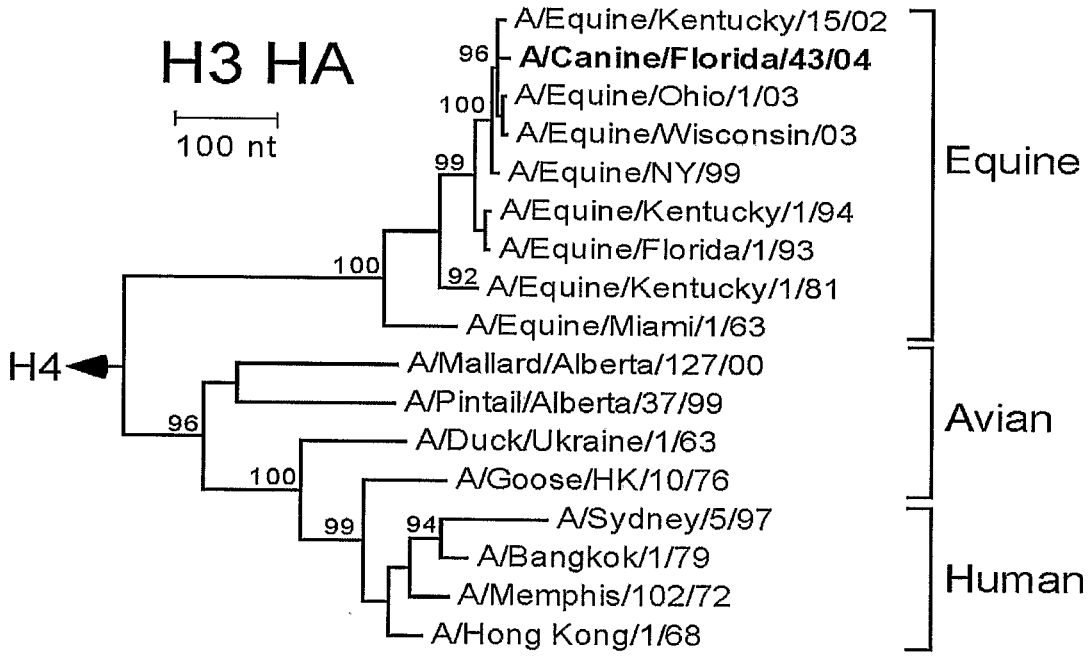

H3 HA
100 nt
H4
A/Equine/Kentucky/15/02
A/Canine/Florida/43/04
A/Equine/Ohio/1/03
A/Equine/Wisconsin/03
A/Equine/NY/99
A/Equine/Kentucky/1/94
A/Equine/Florida/1/93
A/Equine/Kentucky/1/81
A/Equine/Miami/1/63
A/Mallard/Alberta/127/00
A/Pintail/Alberta/37/99
A/Duck/Ukraine/1/63
A/Goose/HK/10/76
A/Sydney/5/97
A/Bangkok/1/79
A/Memphis/102/72
A/Hong Kong/1/68
96
100
99
100
92
96
100
99
94
Equine
Avian
Human

FIG. 1A

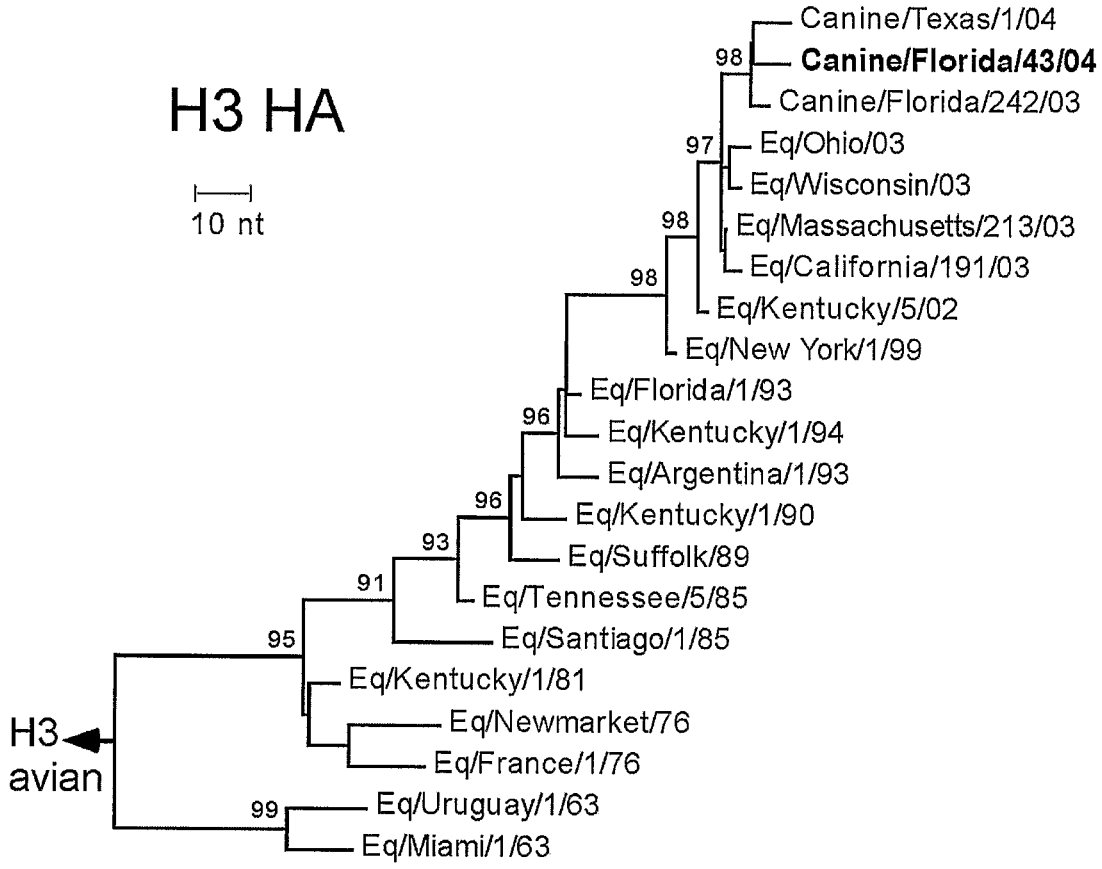

H3 HA
10 nt
Canine/Texas/1/04
Canine/Florida/43/04
Canine/Florida/242/03
Eq/Ohio/03
Eq/Wisconsin/03
Eq/Massachusetts/213/03
Eq/California/191/03
Eq/Kentucky/5/02
Eq/New York/1/99
Eq/Florida/1/93
Eq/Kentucky/1/94
Eq/Argentina/1/93
Eq/Kentucky/1/90
Eq/Suffolk/89
Eq/Tennessee/5/85
Eq/Santiago/1/85
Eq/Kentucky/1/81
Eq/Newmarket/76
Eq/France/1/76
Eq/Uruguay/1/63
Eq/Miami/1/63
H3 avian
98
97
98
98
96
96
93
91
95
99

FIG. 1B

FIG. 2A



FIG. 2B

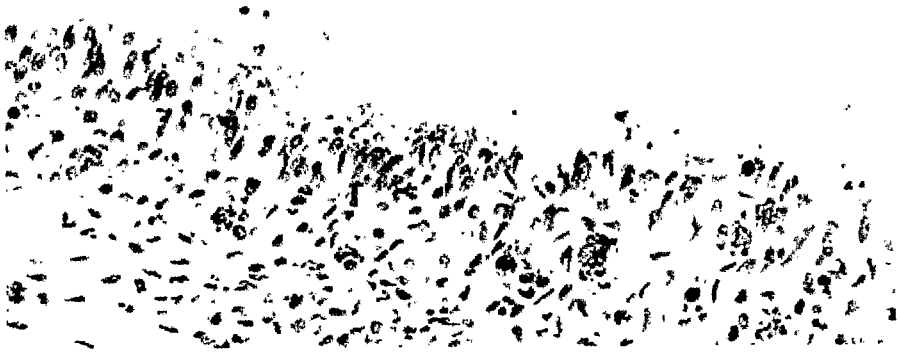




FIG. 3A



FIG. 3B

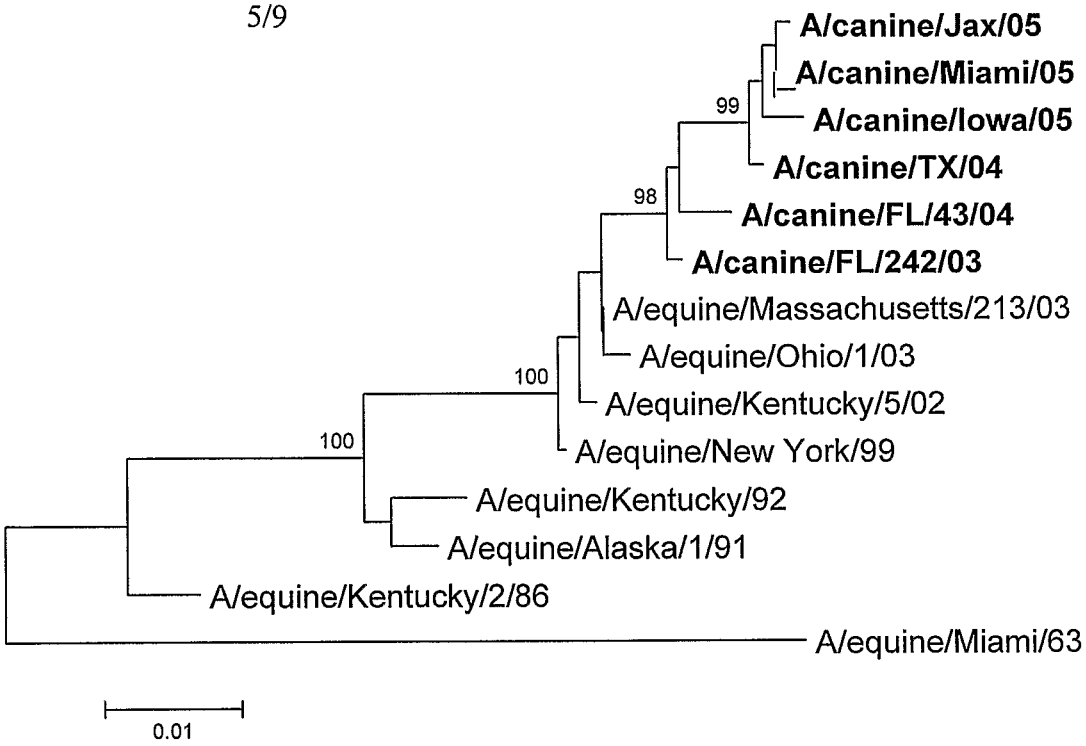

A/canine/Jax/05
A/canine/Miami/05
99
A/canine/Iowa/05
A/canine/TX/04
98
A/canine/FL/43/04
A/canine/FL/242/03
A/equine/Massachusetts/213/03
A/equine/Ohio/1/03
100
A/equine/Kentucky/5/02
100
A/equine/New York/99
A/equine/Kentucky/92
A/equine/Alaska/1/91
A/equine/Kentucky/2/86
A/equine/Miami/63
0.01

FIG. 4A

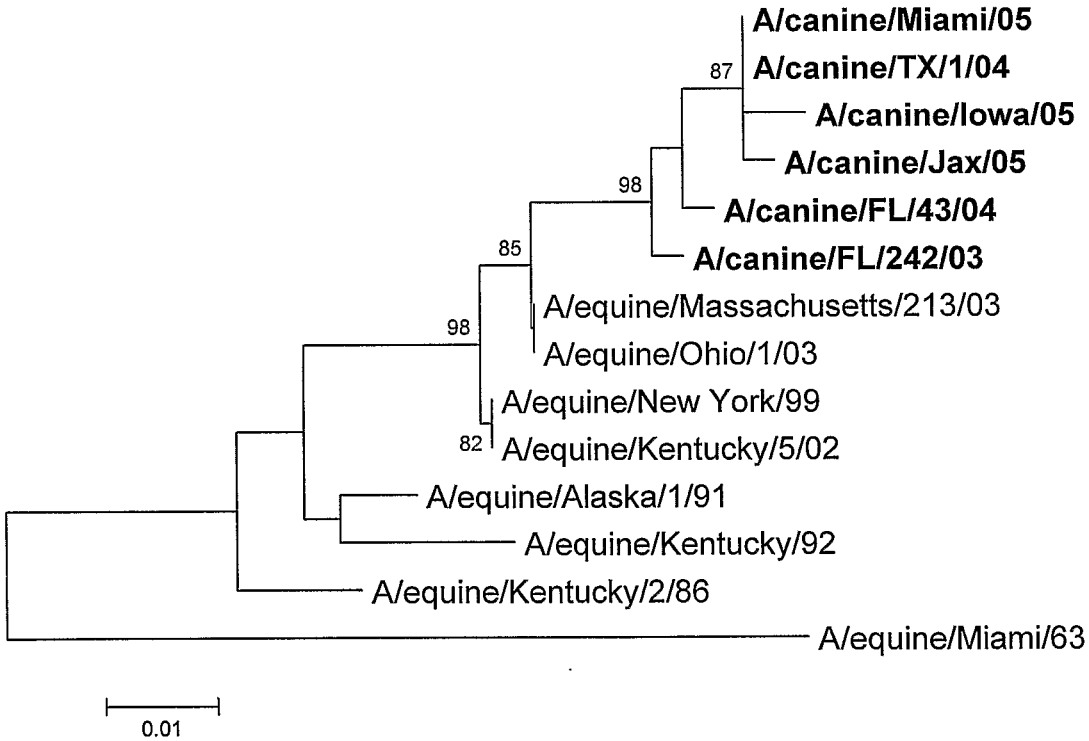

A/canine/Miami/05
87
A/canine/TX/1/04
A/canine/Iowa/05
A/canine/Jax/05
98
A/canine/FL/43/04
85
A/canine/FL/242/03
A/equine/Massachusetts/213/03
98
A/equine/Ohio/1/03
A/equine/New York/99
82
A/equine/Kentucky/5/02
A/equine/Alaska/1/91
A/equine/Kentucky/92
A/equine/Kentucky/2/86
A/equine/Miami/63
0.01

FIG. 4B

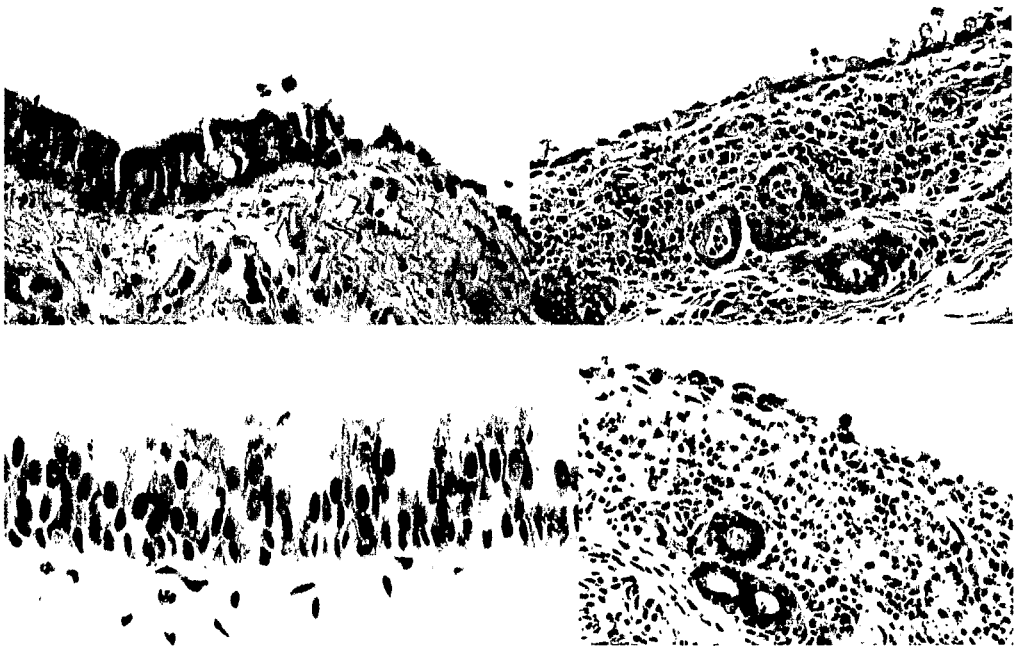


FIG. 5

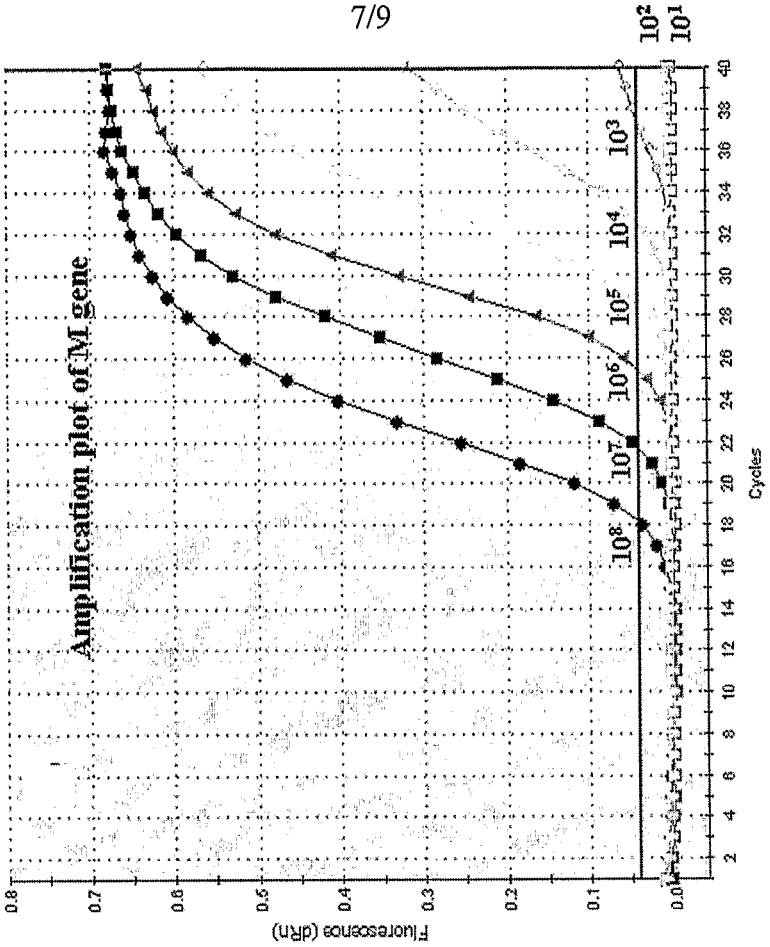

Amplification plot of M gene
Fluorescence (dRn)
Cycles
10^8 10^7 10^6 10^5 10^4 10^3 10^2 10^1

FIG. 6B

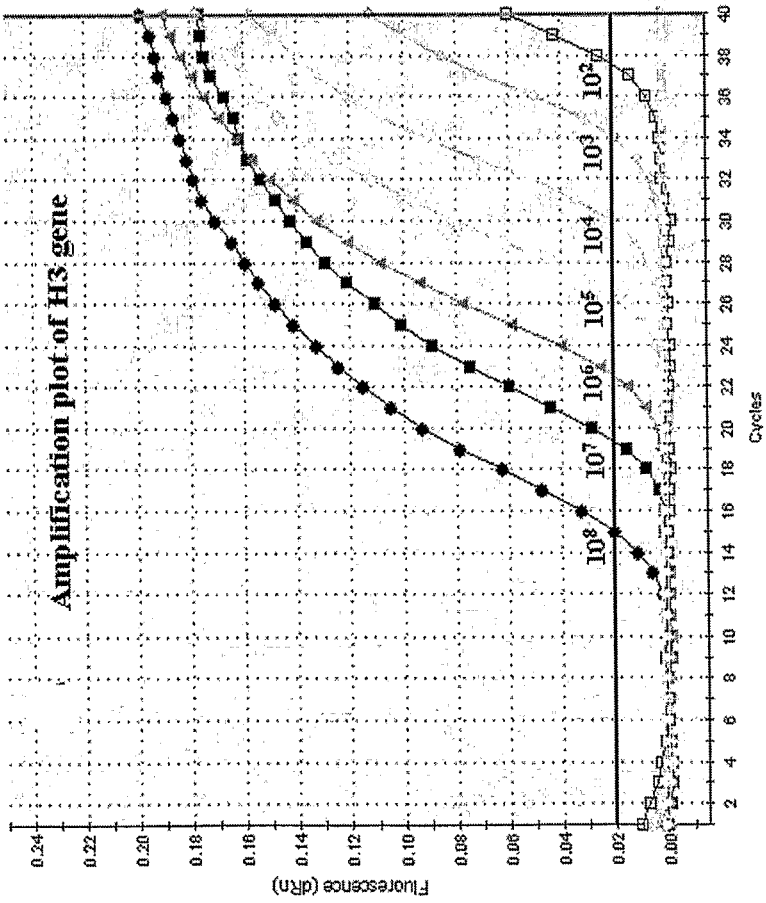

Amplification plot of H3 gene
Fluorescence (dRn)
Cycles
10^8 10^7 10^6 10^5 10^4 10^3 10^2 10^1

FIG. 6A

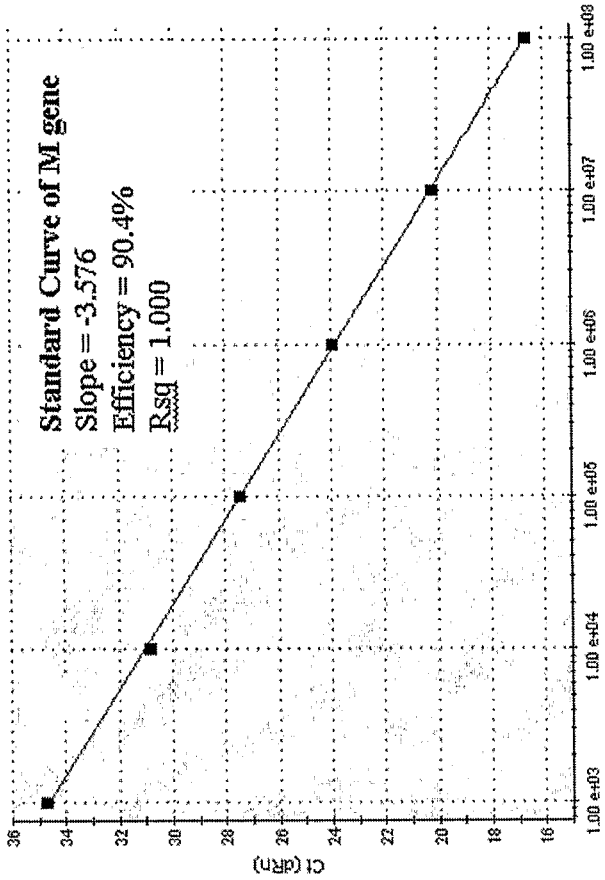

Standard Curve of M gene
Slope = -3.576
Efficiency = 90.4%
Rsq = 1.000
Ct (dRn)
Initial Quantity (copies)

FIG. 6D

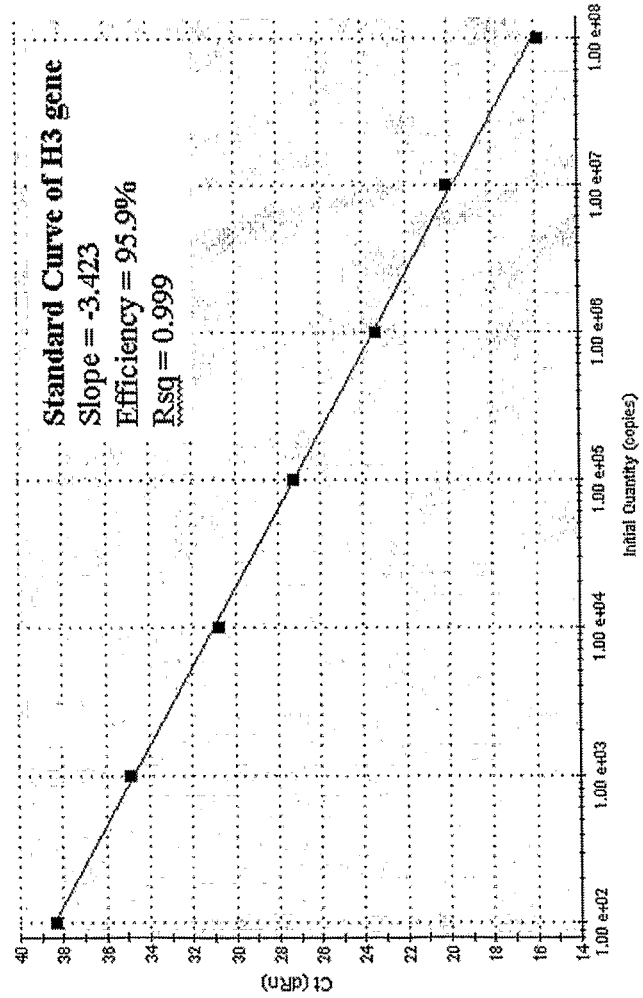

Standard Curve of H3 gene
Slope = -3.423
Efficiency = 95.9%
Rsq = 0.999
Ct (dRn)
Initial Quantity (copies)

FIG. 6C

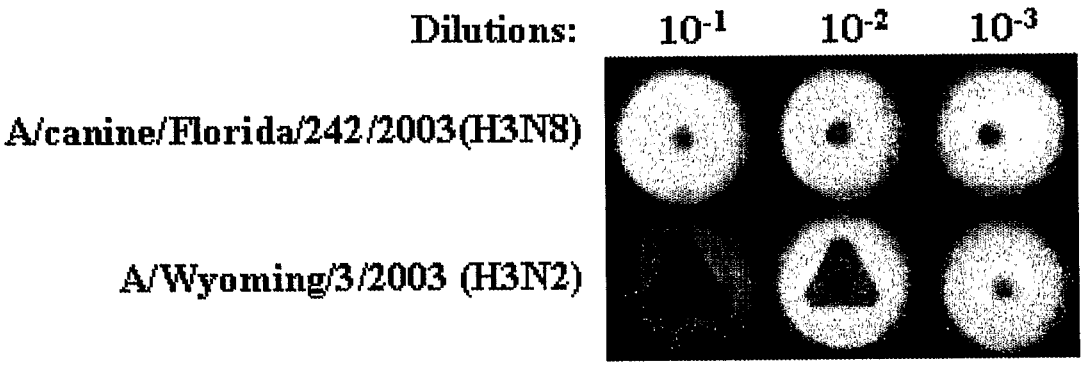

Dilutions:
10^{-1}
10^{-2}
10^{-3}
A/canine/Florida/242/2003(H3N8)
A/Wyoming/3/2003 (H3N2)

FIG. 7