

# RNA standards for avian influenza and *Newcastle disease virus* specific RT-qPCRs

# RNA run-off transcripts for AIV/NDV

**Universal IC** 

**Eurasian control** 

**American control** 

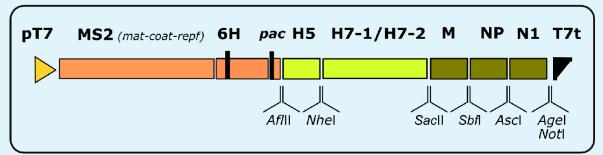
**Newcastle controls** 

Plasmids, transcripts available, but no armored RNA



### **AIV**

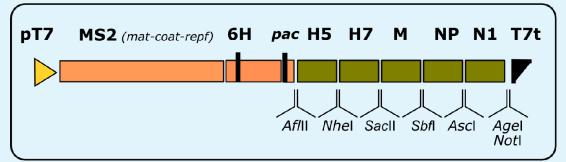




M – Spackman et al.

H5, H7-1,-2 US – Spackman et al. (old/new)





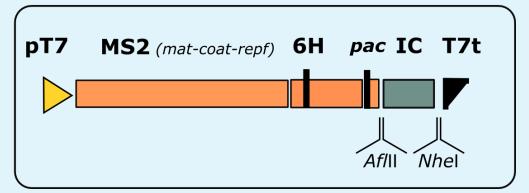
H5, H7 - Slomka et al.

NP, N1 – Hoffmann et al.



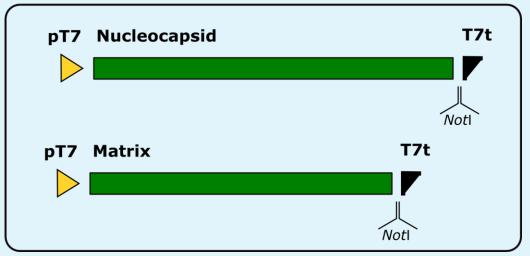
# IC, NDV





IC2 - Hoffmann et al., 2007

#### NDV



Newly developed NP-specific PCR (Waeckerlin et al.)

M-specific PCR by Wise et al.



#### **Considerations**

Copy-based standards generally not required for diagnostic applications

- Naturally armored control available

Required for quantitative research applications

- -Most groups have their own standard
- -Switch of standards would require methodological adaptations and might challenge comparability

Reconsider usefulness and design of RNA standards



# **Acknowledgments**

Alexander Postel, Inge Müller, Regula Waeckerlin, Christian Grund

# E-mail me for plasmids and sequence information: timm.harder@fli.bund.de



Copyright © Generalplaner Insel Riems



