

# ERCC Workshop Access and Usability

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# **ACCESS and USABILITY**

- **Platform-independent control materials are needed for performance evaluation of reproducibility, sensitivity and robustness in gene expression analysis**

# ERCC GOAL

- **Generate Reference Materials**
- **External RNA spike-in controls**
  - readily accessible
  - broad acceptance
    - research and clinical communities

# FEATURES

- **Unique and specific sequences**
- **Distributed broadly**
- **Minimal charge**
- **Non-profit mechanism**

# **PUBLIC INFORMATION (1)**

- Process of sequence selection**
- Clone construction**
- Quality control**
- Characterization**
- Nucleic acid sequences**
- Quantitative information on nucleic acids**

# **PUBLIC INFORMATION (2)**

- Recommended handling and storage**
- Stability data**
- Recommended protocols for use**
- Observed performance characteristics**

# USE

- **Evaluate**
  - **Sample performance**
  - **Sensitivity**
  - **Reproducibility**
  - **Assay robustness**

# FURTHER DEVELOPMENT

- **Commercial Development**
  - **useful control products based upon clones and transcripts**
    - **Dynamic range transcript pool**
    - **RNA extraction controls pool**
- **Methods Standards Development**
  - **Explicit guidance from consensus standards organizations**