



Reference Gene Panel

Validation of stable reference genes

- Fast screening of most suitable reference genes
- Panel of 12 genes ensures correct gene for normalisation
- geNorm and NormFinder algorithms included

Confidence in your normalisation

For all gene expression studies using quantitative PCR it is necessary to compensate for differences between samples due to material losses, differences in cDNA synthesis yields and PCR inhibition. It is absolutely crucial that the expression of the reference genes are constant in all the samples compared. Unfortunately there are no universal reference genes, expressed at constant levels under all conditions in all tissues, hence the choice of reference genes should be validated for each new study setup. To be confident you are using the most optimal reference genes that are not adding variation to your data, it is recommended to analyze a set of at least 10-12 potential genes on a number of representative test samples (Bustin *et al. The MIQE Guidelines: Minimum Information for Publication of Quantitative Real-Time PCR Experiments*, Clin. Chem., 2009). Then by using algorithms like geNorm and NormFinder the most stable genes for the sample set can be evaluated.

Using a Reference Gene Panel

The Reference Gene Panels offer an easy way of screening for reference genes as they contain a set of 12 highly efficient wet lab validated assays that are ready to use. Genes with varying cellular functions and expression levels have been selected to reduce the risk of using co-regulated genes. The primers have been designed to be exon-spanning where possible and to give low levels of primer-dimers. A 1-year license of the GenEx Standard software is included in the TATAA Reference Gene Panel. GenEx contains both geNorm and NormFinder, and will help you to easily pre-process your qPCR-data and select the most stably expressed genes in your study.

Contents:

- Positive Control DNA
- Primer sets for 12 candidate reference genes, 100 reactions per gene
- 1-year license for GenEx Standard

Ordering Information

	SYBR® - 100 rxn	Probe - 100 rxn
Reference Gene Panel Human	A101	A101P
Reference Gene Panel Mouse	A102	A102P
Reference Gene Panel Rat	A103	A103P

Please order through our distributors around the world or at www.tataa.com/products.