

Ordering details:

Cat No	Product Description
AN0PLB2	QST[®]R^{plusv2} 50 tests QST [®] R ^{plusv2} is a highly multiplexed single tube assay. It comprises a total of 22 markers for chromosomes 13, 18, 21, X and Y and will detect the most common viable autosomal trisomies and sex chromosome aneuploidies. It includes a X quantification marker that is particularly useful in the diagnosis of Turner syndrome.
AN003B2	QST[®]R 50 tests QST [®] R is a highly multiplexed single tube assay comprising a total of 16 markers for the detection of the 3 most common viable autosomal trisomies (13, 18 and 21).
AN013BX	QST[®]R-13 10 tests QST [®] R-13 detects additional chromosome 13 specific markers to supplement QST [®] R and QST [®] R ^{plusv2} if required.
AN018BX	QST[®]R-18 10 tests QST [®] R-18 detects additional chromosome 18 specific markers to supplement QST [®] R and QST [®] R ^{plusv2} if required.
AN021BX	QST[®]R-21 10 tests QST [®] R-21 detects additional chromosome 21 specific markers to supplement QST [®] R and QST [®] R ^{plusv2} if required.
ANOXYB2 ANOXYBX	QST[®]R-XYv2 50 tests (suffix B2) or 10 tests (suffix BX) QST [®] R-XYv2 comprises a total of 12 markers for both the X and Y chromosomes. It can be used to detect sex chromosome aneuploidies including Turner syndrome (monosomy X) and Klinefelter syndrome (predominantly 47, XXY).
AN3XYB2	QST[®]R/QST[®]R-XYv2 50 tests A bundled product comprising one QST [®] R kit and one QST [®] R-XYv2 kit.

ELUCIGENE is a trademark of Gen-Probe Life Sciences Ltd. Elucigene QST[®]R kits are developed and manufactured within quality systems accredited to ISO9001:2008 and ISO 13485:2003. Elucigene QST[®]R kits are CE marked in compliance with EU *in vitro* diagnostic device requirements and are developed in collaboration with Guy's and St Thomas' NHS Foundation Trust. Polynucleotides labeled with VIC[®], NED[™] and PET[®] dyes and/or their use may be covered by one or more patents owned by Applied Biosystems LLC. VIC[®], NED[™] and PET[®] are trademarks of Life Technologies Corporation. GeneMapper[®] is a registered trademark of Life Technologies Corporation. GeneMarker[®] is a registered trademark of SoftGenetics LLC.

Rapid Aneuploidy Analysis

Simple and Robust.
One PCR, One Analysis, One Report.
Validated for use with ABI3500 Dx.

Trisomy analysis and QST[®]Rplusv2

Screening for Down syndrome is offered routinely to thousands of women each year as part of standard antenatal care. For those women identified as being at high risk of carrying a Down syndrome foetus, chorionic villus sampling (10-12 weeks) or amniocentesis (14-18 weeks) is offered.

Standard cytogenetic techniques involving tissue culture and microscopic analysis can take up to 14 days to provide a diagnosis. Fluorescent *in-situ* Hybridisation (FISH) using interphase cells is expensive, time consuming and unsuitable for high throughput use.

Elucigene QST[®]R kits use the DNA based QF-PCR technique (see below). Individual results can be obtained within a few hours of receipt of samples. In routine use, turnaround reporting times of less than 24 hours from sample receipt are easily achievable.

Elucigene QST[®]Rplusv2 is a highly multiplexed, single tube assay containing a total of 22 markers. Autosomal markers are used to detect the three most common viable autosomal trisomies: trisomy 21 (Down syndrome), trisomy 18 (Edwards syndrome) and trisomy 13 (Patau syndrome).

Additional markers on the sex chromosomes X and Y including a specific marker for the quantification of the number of X chromosomes, is useful in the diagnosis of sex chromosome aneuploidies including Turner syndrome and Klinefelter syndrome.

One PCR

single tube per patient



- Simple set up – one tube per sample
- Rapid – minimum hands on time, just add DNA
- One step protocol – DNA extraction to PCR
- Reduced risk of sample mix-up
- Efficient – fewer consumables, reduced cost

How it works

Quantitative Fluorescent-PCR

The method employed by Elucigene QST[®]R kits is the QF-PCR (Quantitative Fluorescence-Polymerase Chain Reaction) technique. Using PCR amplification, fluorescent dye labelled primers target highly polymorphic regions of DNA sequence, short tandem repeats (STRs), that are located on the chromosomes of interest. Each targeted STR marker is specific to the chromosome on which it is located, thus the copy number of the STR marker can be diagnostic of the copy number of the chromosome.

A normal diploid sample has the normal complement of two of each of the somatic chromosomes, thus two alleles of a chromosome specific STR are determined by the QF-PCR technique as two peaks in a 1:1 ratio. The observation of an extra STR allele as either a three peak pattern in a 1:1:1 ratio or two peak pattern in a 2:1 or 1:2 peak ratio is diagnostic of the presence of an additional sequence which in turn may represent an additional chromosome, as in the case of a trisomy.

One Analysis

analyse on one capillary



- Validated for use on the ABI3500 Dx Genetic Analyzer
- Highly informative – multiplexed 5 dye chemistry
- No post-PCR manipulation
- One capillary per sample
- Cost effective – less instrument consumables

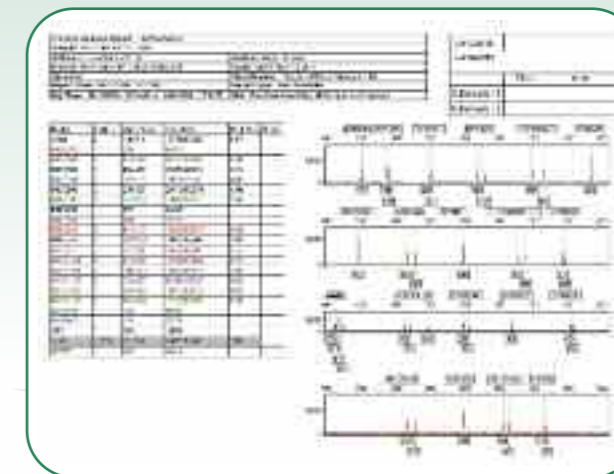
Simplicity

Gen-Probe supports simple and easy to use analysis software for chromosome aneuploidy reporting. Results can be analysed through either Applied Biosystems GeneMapper or SoftGenetics GeneMarker software.

GeneMarker's operation is simple, fast and accurate and now includes a customised Trisomy Analysis function. By selecting BPG (Best Practice Guidelines) settings within the Trisomy Analysis function users can quickly and accurately measure allele ratios to obtain a full patient sample report within minutes.

One Report

simple one page report



- GeneMarker software application
- Simple data review and analysis
- Easy to use intuitive software
- Informative single page report
- No data transfer required