

How may genomic testing help with my treatment selection plan?

Due to the fact that different individuals respond differently to their cancer treatments; your genomic testing results may be used to determine the most appropriate therapy for you based on your unique mutation profile.



NGS Analysis / Medical interpretation



Same diagnosis, different responses to treatment, molecular profiling is used to determine the appropriate therapy



Headquarters: 3F, No.345, Xinhua 2nd Rd., Neihu Dist., Taipei, Taiwan 114
T: +886 2 2795 3660 **F:** +886 2 2795 5016
Singapore: 3 Biopolis Drive, #03-19 Synapse, Singapore 138623
T: +65 2 3158 4136 **F:** +65 6262 2160
service@actgenomics.com

www.actgenomics.com

© 2016 ACT Genomics Co., Ltd.
All Rights Reserved. P0020E-02



FIND THE RIGHT TREATMENT
FOR YOU AT THE RIGHT TIME

PRECISION MEDICINE



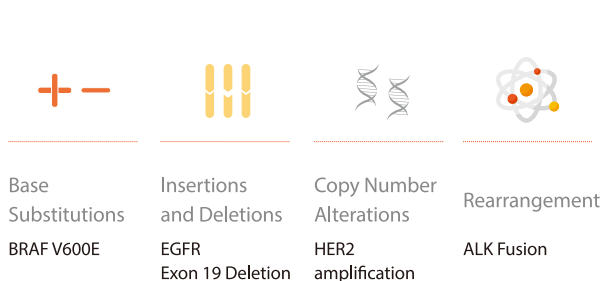
What are genes?

There are approximately 20,000 genes in each individual, which carry information to define the traits and to maintain normal cell functions.

How is gene mutation related to cancer?

A gene mutation is a permanent change in the sequence of chemical bases in a cell's DNA, mutation in the human body is common, sometimes mutations are not harmful, but other times it may cause one or more of the proteins to function incorrectly or not at all. This, in turn, prevents the cell from working properly and can cause diseases such as cancer.

The four main alterations driving tumor growth

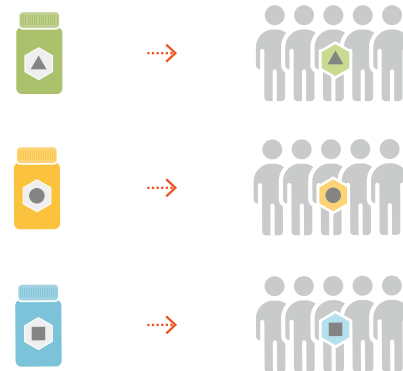


How is cancer unique on different individuals?

While there are general ways in which cancers of the same organ are similar, no two cancers are exactly alike. The differences have to do with the "biology" of each individual – each person's cancer has its own genetic characteristics. Because of these genetic differences each person responds differently to the cancer and treatments he or she undergoes.

What is precision medicine?

The phrase "precision medicine" is the emerging practice of using so-called NGS or other technologies to perform genomic testing on your tissue or blood samples to further characterize your cancer. Through your genomic testing results, your doctor may select the most appropriate treatments for you based on the knowledge gained from your unique mutation profile of the cancer.



How do I know if genomic testing is appropriate for my type of cancer?

Genomic testing is used increasingly in cancer screening and treatment selection today. For some types of cancer it is a recommended option, but it may not necessarily be suitable for every patient as every cancer case is unique. The best approach is to ask your doctor whether it is an appropriate option for you.

What types of samples are typically needed for genomic testing?

Typically tissue samples from surgical operations or blood draws are both suitable to undergo genomic testing. Tissue samples may include FFPE tissue, excessive body fluids associated with cancers such as lung water or ascites, etc. (FFPE, formalin-fixed and paraffin-embedded)

