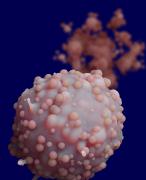
BostonGene

Tumor Portrait[™] test

From Treating a Diagnosis to Treating the Patient







analysis





Treatment recommendation

BostonGene performs integrated molecular and immune profiling to assist oncologists in treatment selection by providing:





Comprehensive multi-omics analysis





Comprehensive multi-omics analysis

The BostonGene Tumor Portrait[™] test reveals biomarkers of response to diverse therapies, actionable mutations, immune microenvironment properties, and treatment options by integrating DNA and RNA results into one simple report.

DNA analysis

- MSI status
- TMB status
- Germline alterations
- Clonal and subclonal analysis
- Cancer-specific genetic subtypes (e.g., smoking signatures)

RNA analysis

- Gene fusions
- Novel fusions
- Gene expression analysis
- Diagnostic and prognostic gene expression signatures (e.g., PAM50, CMS)

99.9% Accuracy 99.9% Specificity

- Test covers more than 22,000 genes
- Tumor-normal sequencing
- Optional IHC staining PD-L1 & MMR

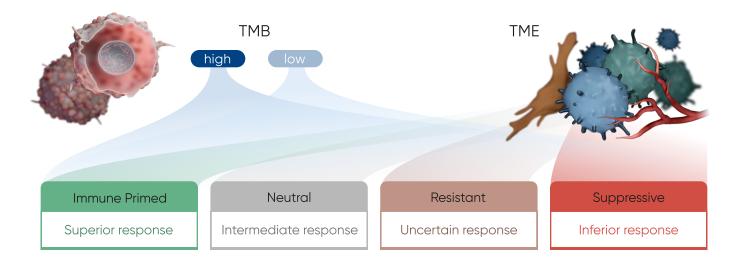
Tumor Immunity Portrait™

Immunoprofiling beyond single factors

IO-therapy response prediction is based on the combination of tumor microenvironment (TME) typing and tumor mutation burden (TMB) status. Patients are stratified into four categories that are predictive of response to immunotherapy. Cancer Cell

In top 10 editors' picks 2021, Cancer Cell

"Conserved pan-cancer microenvironment subtypes predict response to immunotherapy" (Bagaev et al., 2021) is one of ten research articles that represent cutting-edge areas of cancer research and oncology.



One simple report

View comprehensive results in a structured format

The BostonGene Tumor Portrait[™] report highlights all key findings and treatment recommendations on one page.

1

1

1

1

1

3

3

Superior Response

Superior Response

Superior Response

Superior Response

Superior Response

Superior Response

Superior Response

3.02 mut/Mb (Low)

NCCN FDA

Stable

BostonGene SUMMARY REPORT: NON-SMALL LUNG CANCER COMPREHENSIVE GENOMIC PROFILE TUMOR PORTRAIT™ SELECTED MOLECULAR FINDINGS EGFR G719C GOF Afatinib L, Dacomitinib Sex: Female Erlotinib Ч Date of birth: L, Gefitinib Diagnosis: Non-small cell lung cancer Stage: IV Osimertinib 4 Histology: Adenocarcinoma Therapy status: First-line systemic Tepotinib + Gefitinib **MET** high-level amplification therapy Tepotinib + Osimertinib 4 Source: Right lung Type: FFPE тмв Tumor content: 21% (NGS) Microsatellite status Specimen & block ID: Collected: GERMLINE Source of normal DNA: Whole blood ATM mutation, ENST00000675843: c.7096G>T; p.E2366*, pathogenic Collected: NEGATIVE Physician: Negative for reportable events in ALK (fusion), BRAF, HER2, KRAS, NTRK 1/2/3 (fusion), RET (fusion), Institution: ROS1 (fusion). Pathologist: Pathology lab: SELECTED TREATMENT OPTIONS **Treatment Timeline** Afatinib / Osimertinib NCCN FDA Dacomitinib / Erlotinib / Squamous cell carcinoma Gefitinib in situ of skin IN NCCN GUIDELINES 10/2023 1 Second EGFR G719X mutation IN NCCN GUIDELINES 1 Second EGFR G719X mutation NSCLC More options: Osimertinib or Bevacizumab + Osimertinib 12/2023 (1 matched trial) **BG**[⋈] Biopsy To see the complete list of NCCN recommended treatment options, please see the "NCCN Guidelines - Treatment Options" 01/2024 section or go to NCCN.org. Presented above is a BostonGene selection of therapies based on the NCCN Guidelines. SELECTED MATCHED TRIALS For more information see Potential Recruiting Trials section 5 trials identified EGFR G719C mutation MET high-level amplification 2 trials identified 1 trial identified NTRK1 amplification

Effective treatment options for every cancer patient

Meticulously curated & daily updated databases:

More than 30 BostonGene-developed databases used for each report generation, including Astraea – proprietary Biomarkers Database with over 8,000 biomarkers helps to keep each report up-to-date with only clinically actionable information.

Al-based treatment recommendation

BostonGene's algorithmic patient-tailored treatment selection provides two of the most likely applicable therapy options by taking into account the following:

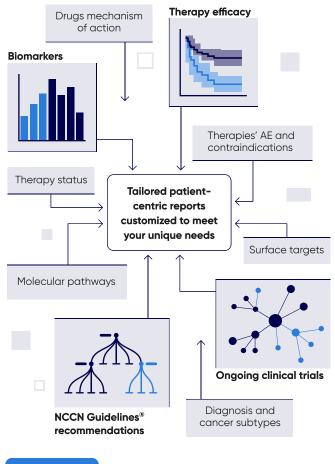
- Patient's clinical history
- Molecular findings
- Latest clinical efficacy data from a similar patient cohort
- NCCN Guidelines® treatment recommendations and FDA-approved therapies

Personalized clinical trials

Applicable clinical trials for each patient, filtered by:

- Clinical information
- · Inclusion criteria and molecular parameters
- Geographical location

Our algorithms and MD experts tailor relevant information for the patient



NCCN

BostonGene integration with NCCN Clinical practice guidelines in oncology (NCCN Guidelines®)

"We are pleased that BostonGene will be utilizing the NCCN Guidelines to generate reports linking biomarker results with evidence-based treatment recommendations." – Robert W. Carlson, MD, Chief Executive Officer at NCCN.



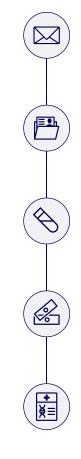
Turnaround time 10-12 days

Test results will be available approximately 10-12 days after the tumor and normal specimens are received in the BostonGene laboratory.

Financial assistance program

BostonGene offers a robust financial assistance program to reduce the financial burden on the patient. Patients can apply for our financial assistance program by completing the application form (included in the kit or available online). The program covers longitudinal testing for up to 18 months.

How to start



Order BostonGene kit

Retrieve a BostonGene whole blood or saliva collection kit. To order new kits, contact your BostonGene representative or email: clientservices@bostongene.com.

Complete requsition

Fill out the Test Requisition Form (TRF). Fax or email the TRF and accompanying documents (pathology report and progress notes) to BostonGene.

Collect a normal sample

Use the BostonGene kit to collect a normal sample (saliva, blood or buccal swab) and ship it to BostonGene.

BostonGene will contact pathology lab

BostonGene will request formalin-fixed paraffin-embedded (FFPE) tissue from the pathology lab, and will provide a BostonGene FFPE kit for the tumor sample.

Get the final report

Get the report via the BostonGene Customer Portal or a secure/ encrypted email/fax. Once your first report is ready, an email notification will be sent with a link to activate your access to the portal.

Specimen requirements

BostonGene Tumor Portrait™ test: 1 FFPE block or 10 FFPE unstained slides + 1 H&E slide BostonGene IHC assays: 1 additional unstained slide for PD-L1 and 4 additional unstained slides for MMR



Partners

BostonGene collaborates with leading cancer centers, providing innovative technologies to develop and validate novel precision medicine approaches.



Optimizing treatment through comprehensive testing

For all questions please contact clientservices@bostongene.com +1781-552-3131 8:00am-5:00pm ET Monday-Friday



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