



### OncoStrands® is Technology-Agnostic:

- Utilising various NGS technologies (Illumina, Thermo Fisher, Covaris, Twist Biosciences, IDT, etc.).
- Available to choose from both off-the-shelf and/or in-house developed & extensively validated panels, including our trademarked OncoStrands® Essential, Extended & Comprehensive assays, ranging from 50 to over 520 genes\*.



### Extensive & Unique Combination of Tumour Profiling Tests, screening for:

- DNA & RNA alterations; variants (SNVs, Indels, CNVs), fusion genes and splice sites.
- Genomics signatures including Tumour Mutational Burden (TMB), Microsatellite Instability (MSI) and Homologous Recombination Deficiency (HRD) phenotypes.



### Report Includes:

- Contents as per the latest AMP & CAP guidelines
- Recommended clinical matching\* with biomarkers, & clinical trials as per FDA, EMA, NCCN, ESMO, etc.

### All Solid Tumours (pan-cancer biomarkers)

Tumour mutational burden (TMB)  
Microsatellite instability (MSI)  
Pembrolizumab

NTRK fusions (NTRK1, NTRK2, NTRK3)  
Entrectinib & Larotrectinib

### Lung, Non-Small Cell Lung Cancer (NSCLC)

AKT1, ALK, BRAF, DDR2, EGFR, ERBB2, FGFR1, FGFR3, KRAS, MAP2K1, MET, NRAS, PIK3CA, PTEN, ROS1, RET, STK11, TP53

ALK, RET, ROS1 rearrangements  
Crizotinib, Alectinib, Brigatinib, Lorlatinib, Ceritinib, Pralsetinib, Selpercatinib & Entrectinib

BRAF V600E  
Dabrafenib + Trametinib

EGFR (exons 19, 20 & 21 alterations/mutations)  
Erlotinib, Gefitinib, Afatinib, Amivantamab, Dacomitinib & Osimertinib, Erlotinib + Ramucicromab

MET exon 14 skipping  
Capmatinib, Tepotinib

KRAS G12C  
Sotorasib

### Melanoma

BRAF, CTNNB1, GNA11, GNAQ, KIT, MAP2K1, NF1, NRAS, PDGFRA, PIK3CA, PTEN, TP53

BRAF V600E  
Dabrafenib, Vemurafenib

BRAF V600K  
Dabrafenib + Trametinib, Encorafenib + Binimetinib, Vemurafenib + Cobimetinib, Trametinib

### Colon, Colorectal Cancer

AKT1, BRAF, HRAS, KRAS, MET, MLH1, MSH2, MSH6, NRAS, PIK3CA, PMS2, PTEN, SMAD4, TP53

BRAF V600E  
Encorafenib + Cetuximab

KRAS and/or NRAS exon 2,3, 4 mutations  
Cetuximab & Panitumumab

MSI-H  
Ipilimumab + Nivolumab, Nivolumab

### Gastric, Gastrointestinal Stromal Tumour (GIST)

BRAF, KIT, KRAS, MET, MLH1, PDGFRA, TP53

PDGFRA exon 18 mutations  
Avapritinib

KIT exon 9, 11, 13, 14, 17 mutations  
Imatinib, Sunitinib, Regorafenib, Ripretinib

### Prostate Cancer

AR, ATM, BRAF, CD274, FGFR2, MLH1, MSH2, PMS2, PTEN

AR alterations/mutations  
Abiraterone, Apalutamide, Bicalutamide, Enzalutamide & Darolutamide

BRCA1, BRCA2  
Olaparib, Rucaparib

Other HRD mutations (ATM, BARD1, BRIP1, CDK12, CHEK1/2, FANCA, FANCL, PALB2, RAD51B/C/D, RAD54L, etc.)  
Olaparib

### Thyroid Cancer

ALK, BRAF, HRAS, KRAS, NRAS, RET, TERT, CDKN2A

### Breast Cancer

AKT1, AR, BRCA1, BRCA2, ERBB2, FGFR1, FGFR2, PALB2, PIK3CA, PTEN

BRCA1, BRCA2  
Olaparib & Talazoparib

ESR1 (for HR+ and/or HER2+)  
Exemestane, Letrozole, Anastrozole, Tamoxifen, Fulvestrant

ERBB2 amplification  
Ado-trastuzumab Emtrinsine, Capecitabine + Trastuzumab + Tucatinib, Neratinib, Pertuzumab + Trastuzumab, Trastuzumab-Dexatecan, Trastuzumab

PIK3CA  
Fulvestrant + Alpelisib

PTEN (for HER2-)  
Everolimus

### Pancreatic Cancer

AKT1, ATM, BRAF, BRCA1, BRCA2, KRAS, PALB2, PTEN, SMAD4

BRCA1, BRCA2  
Olaparib

### Bladder Cancer

FGFR1, FGFR2, FGFR3, MSH5, PMS2, TSC1

FGFR fusions  
Erdafitinib

### Sarcoma

ALK, APC, BRAF, CDK4, CTNNB1, ETV6, EWSR1, FOXO1, GLI1, KJT, MDM2, MYO1D1, NAB2, NFI, PAK3, PALX, PDGFRA, PDGFRB, SDHB, SDHC, SMARCB1, TFE3, WT1

### Ovarian, Fallopian Tube, Peritoneal Cancer

BRAF, BRCA1, BRCA2, KRAS, PDGFRA, FOXL2, TP53, HRD

BRCA1, BRCA2  
Olaparib, Niraparib, Rucaparib, Bevacizumab + Olaparib

HRD+  
Bevacizumab + Olaparib

### Brain Cancer

BRAF, CDKN2A, CDKN2B, EGFR, IDH1, IDH2, TERT

### Supplementary Tests to assist better treatment decisions

- Immunohistochemistry (IHC):  
For the selection of immunotherapies
- PD-L1
  - MMR
- For TKI inhibitor treatments
- ALK
  - ROS1

Promoter methylation (PCR-based):

- MLH1
- MGMT