

# CancerSpot<sup>TM</sup>

## Early Detection Screening Test REPORT

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LIFE SCIENCES

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## Somatic Cancer Gene Panels

Strand Life Sciences offers a vast portfolio of NGS-based somatic cancer testing that provides genetic testing solutions across major solid cancer types. Our somatic cancer portfolio covers a wide range of testing solutions from single biomarker tests to cancer-specific & comprehensive genomic profiling solutions.

## Cancer Specific Gene Panels

### Colorectal Cancer

| Test                                  | Genes Covered                                                                                                                                                   | Methodology |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| Colorectal Cancer Essential Panel     | <i>BRAF, ERBB2, KRAS, MET, NRAS, PIK3CA, PTEN</i>                                                                                                               | NGS         |
| Colorectal Cancer Actionable Panel    | <i>BRAF, ERBB2, KRAS, MET, NRAS, PIK3CA, PTEN, MSI by PCR</i>                                                                                                   | NGS         |
| Colorectal Cancer Comprehensive Panel | <i>AKT1, APC, BRAF, CTNNB1, DDR2, EGFR, ERBB2, ERBB3, FBXW7, KRAS, MAP2K1, MET, MLH1, MSH2, MSH6, NOTCH1, NRAS, PIK3CA, PMS2, PTEN, SMAD4, TP53, MSI by PCR</i> | NGS         |

### Gynecological & Prostate Cancers

| Test                                           | Genes/Biomarkers Covered                                                                                  | Methodology |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-------------|
| Breast Prognostification Panel                 | <i>ER, PR, HER-2/neu, Ki67</i>                                                                            | IHC         |
| Endometrial Cancer Test                        | <i>dMMR mutations, POLE, TP53</i>                                                                         | NGS         |
| Homologous Recombination Deficiency Test (HRD) | <i>BRCA1, BRCA2 and Genomic Scar Score (GSS)</i>                                                          | NGS         |
| Homologous Recombination Repair Test (HRR)     | <i>ATM, BARD1, BRCA1, BRCA2, BRIP1, CDK12, CHEK1, CHEK2, FANCL, PALB2, RAD51B, RAD51C, RAD51D, RAD54L</i> | NGS         |
| Somatic BRCA Test                              | <i>BRCA1, BRCA2</i>                                                                                       | NGS         |

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### Head and Neck Cancers

|                                 | Genes/Biomarkers Covered | Methodology |
|---------------------------------|--------------------------|-------------|
| Head & Neck<br>Therapeutic Test | EGFR, P53, P16           | IHC         |

### Lung Cancer

|                                    | Genes/Biomarkers Covered                                                                                                                                                                                                                      | Methodology |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| Lung Therapeutic Test              | EGFR (exon 18,19,20,21)<br>including T790M                                                                                                                                                                                                    | RT-PCR      |
| Lung Cancer<br>Essential Panel     | DNA genes (SNVs, InDels, CNVs):<br>ALK, BRAF, EGFR, ERBB2, KRAS,<br>MET, ROS1 RNA genes (Fusions):<br>ALK, MET (exon 14 skipping),<br>RET, ROS1                                                                                               | NGS         |
| Lung Cancer<br>Actionable Panel    | DNA genes (SNVs, InDels, CNVs):<br>ALK, BRAF, EGFR, ERBB2, KRAS,<br>MET, ROS1, RNA genes (Fusions):<br>ALK, MET (exon 14 skipping), RET,<br>ROS1, PDL-1 22C3 (Dako)                                                                           | NGS         |
| Lung Cancer<br>Comprehensive Panel | DNA genes (SNVs, InDels, CNVs):<br>ALK, BRAF, EGFR, ERBB2, KEAP1,<br>KRAS, MET, MAP2K1, NRAS,<br>PIK3CA, PTEN, ROS1, STK11, TP53<br>RNA genes (Fusions): ALK, MET<br>(exon 14 skipping), NTRK1, NTRK2,<br>NTRK3, RET, ROS1, PDL-1 22C3 (Dako) | NGS         |

### Thyroid Cancer

|                                 | Genes/Biomarkers Covered                                                                                                | Methodology |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------|-------------|
| Thyroid Cancer<br>Basic Panel   | ALK, BRAFV600E, NTRK, PIK3CA,<br>RAS, RET                                                                               | NGS         |
| Thyroid Cancer<br>Advance Panel | DNA Genes (SNVs, Indels, CNVs):<br>ALK, BRAFV600E, NTRK, PIK3CA,<br>RAS, RET,<br>RNA genes (Fusions): ALK, RET,<br>NTRK | NGS         |

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