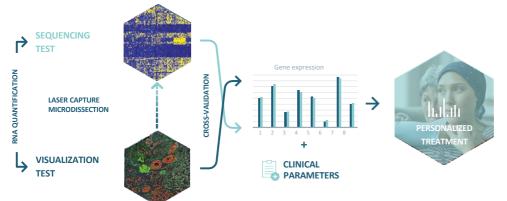
# Multiplex8+ RESULTS



| PATIENT      |               | SAMPLE              |           | ORDERING PHYSICIAN |
|--------------|---------------|---------------------|-----------|--------------------|
| Name:        |               | Specimen ID:        | MDX-PT-46 | Name:              |
| ID:          |               | Date of collection: |           | Address:           |
| Report date: | 15 March 2024 | Туре:               |           | Contact:           |

# **TEST DESCRIPTION**

The **Multiplex8+** breast cancer test assesses RNA-based biomarkers by conducting a **VISUALIZATION TEST** that uses RNA fluorescent in situ hybridization (RNA-FISH) to visualize a panel of biomarkers. Based on the expression of these biomarkers and the tissue histology, laser capture microdissection is used to dissect out regions of interest. With these tumor-enriched samples, a **SEQUENCING TEST** that utilizes total RNA next generation sequencing to survey gene expression in a spatially resolved manner, is further carried out. Analytical validation of **Multiplex8+** was conducted on a large retrospective cohort of 1 082 breast tumors.



#### THE TEST PROVIDES INFORMATION ABOUT:

- RECEPTOR STATUS: for RNA expression of the estrogen receptor, progesterone receptor, Her2 receptor, and Ki67 measured and cross-validated by the two tests.
- MOLECULAR SUBTYPE: based on RNA gene expression tumor biology.
- GENE SIGNATURES: personalized for patients' tumor biology and clinical status.

# INTERPRETATION GUIDE

In the following report, each gene/gene signature is given a percentile score, which ranks the expression level in the context of the patients included in our retrospective cohort. For the four main breast cancer biomarkers, estrogen receptor (ESR1), progesterone receptor (PGR), Her2 receptor (ERBB2), and Ki67 (MKI67), these percentile rankings are in the context of all 1 013 eligible patients. For all other genes/gene signatures, the percentile rankings are in the context of other patients belonging to the same MOLECULAR SUBTYPE. For example, for patients classified as Luminal A, the genes and gene signature will receive a percentile score compared to all Luminal A samples in our retrospective validation. The percentile scores do not necessarily imply a given level of sensitivity or resistance to a therapy.

| Sample             |
|--------------------|
| Percentile         |
| Low<br>(1-33)      |
| Medium<br>(<33-66) |
| High<br>(<66-100)  |
|                    |

Percentile groups and ranges

| Subtype      | # of patients |
|--------------|---------------|
| Luminal A    | 432           |
| Luminal B    | 313           |
| HER2         | 87            |
| Basal-like   | 181           |
| All patients | 1 013         |

Number of patients in each molecular subtype and total retrospective cohort that are used to determine percentile rankings

# Multiplex8+ **RESULTS**



# **RESULTS SUMMARY**

A SUMMARY IS PROVIDED BELOW AND ADDITIONAL DETAILS ARE PROVIDED IN THE FOLLOWING PAGES.

#### **RECEPTOR STATUS**

| Sample | ESR1 | PGR | ERBB2 | MKI67 |
|--------|------|-----|-------|-------|
| Α      | -    | _   | _     | +     |
|        |      |     |       |       |

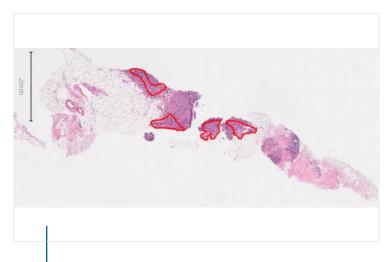
#### **MOLECULAR SUBTYPE**

| Intrinsic subtype | TNBC subtype       |
|-------------------|--------------------|
| Basal-like        | Basal-like 1 (BL1) |

### RELEVANT TREATMENT

| THERAPY                                    | KEY FINDINGS   | CLINICAL BENEFIT                                 |
|--|--|--|
| Atezolizumab, Pembrolizumab,<br>Durvalumab | Gene expression, gene expression signatures, molecular subtype | Predicted benefit                                |
| Anthracycline/taxane chemotherapy          | Molecular subtype, gene expression, gene expression signature  | Predicted benefit                                |
| Veliparib, Carboplatin                     | Gene expression signature                                      | Predicted benefit                                |
| Sacituzumab govitecan<br>(Trodelvy)        | Gene expression  | Predicted benefit                                |
| Methotrexate                               | Gene expression  | Predicted benefit                                |
| 5-fluorouracil (5-FU)                      | Gene expression  | Predicted benefit                                |
| Antibody-drug conjugates                   | Gene expression  | Predicted benefit<br>(off-label, clinical trial) |

#### LASER CAPTURE MICRODISSECTION



Based on histological assessment and RNA-FISH biomarker expression one sample (Sample A) was laser capture microdissected for further analysis.

#### **MOLECULAR SUBTYPE**

| Intrinsic subtype | TNBC subtype <sup>2-4</sup> |
|-------------------|-----------------------------|
| Basal-like        | Basal-like 1 (BL1)          |

#### **RECEPTOR STATUS**

| Sample | ESR1 | PGR | ERBB2 | MKI67 |
|--------|------|-----|-------|-------|
| A      | -    | _   | _     | +     |
|        |      |     |       |       |
|        |      |     |       |       |

Receptor status was determined using both the **VISUALIZATION TEST** and **SEQUENCING TEST**: the table shows results after cross-validation.

#### **INTERPRETATION**

- The results from Multiplex8+ are consistent with the immunohistochemical findings, except for ESR1, which is negative according to Multiplex8+.
- Although ESR1 is discordant with the IHC results, the low ER IHC
  expression (5%) likely resembles ER- breast cancer. ER-low
  patients may be less responsive to endocrine therapies, but
  sensitive to endocrine therapy in combination with CDK4/6
  inhibitors.

Based on the SEQUENCING TEST, we used a consensus subtyping approach consisting of our proprietary 293 gene molecular subtyping signature, a research-based PAM50 test and the AIMS method to classify the intrinsic molecular subtype <sup>1</sup>. TNBC subtype, if applicable, was classified according to Lehmann <sup>2-4</sup>.

#### **INTERPRETATION**

- The classification of basal-like molecular subtype is inconsistent with the Luminal B-like clinical subtype based on IHC expression.
- The basal-like subtype is similar to TNBC because it often lacks expression of hormone and HER2 receptors. Although patients with basal-like breast cancer respond better to chemotherapy, they are more susceptible to early relapse and have poorer prognosis.
- The Basal-like 1 (BL1) subtype is characterized by activation of cell cycle and cell division signaling pathways with corresponding increase in proliferation markers. Enhanced expression of DNA damage response markers is also characteristic of BL1 breast cancer. This subtype responds well to neoadjuvant taxane-based chemotherapy regimens <sup>2-4</sup>.

# **GENE SIGNATURE**

• Based on the assigned molecular subtype, and TNBC subtype (if applicable), we evaluated several individual genes and gene signatures that demonstrate prognostic and predictive potential in early and advanced/metastatic settings.

| Treatment<br>type/ Pathway | Gene<br>signature                    | Description   | Sample A Percentile |  |
|----------------------------|--------------------------------------|---|---------------------|--|
| Prognosis                  | Consensus<br>prognostic<br>signature | The prognostic signature is derived from a consensus of three research-based prognostic signatures, including the 21-gene signature GENE21 <sup>5</sup> , the 70-gene GENE70 signature <sup>6</sup> , and the 50-gene risk of relapse based on subtype alone (ROR-S) signature <sup>7</sup> . The prognostic signatures are intended for early-stage breast cancer patients with ER+/Her2- IHC, lymph node-negative, or 1-3 positive lymph nodes. The score is reported as high, intermediate, or low. Patients with high signature scores are at a greater risk of relapse and may benefit from adjuvant chemotherapy, while patients with low scores have lower risk of relapse and may not benefit from adjuvant chemotherapy. | N/A                 |  |

| Treatment           | Gene                       | Description  | Sample A    |
|---------------------|----------------------------|--|-------------|
| type/ Pathway       | signature                  | Description  | Percentile  |
|                     | ESR1                       | The ESR1 and PGR genes encode for the estrogen (ER) and progesterone (PR) hormone receptors, respectively, which are involved in growth, metabolism, and   | Low (26)    |
|                     | PGR                        | reproductive functions. High ER/PR is predictive of endocrine therapies and low or negative ER/PR is associated with poor prognosis <sup>8</sup> .   | Low (1)     |
| Luminal signatures  | ESR1_PGR average           | The average gene expression of ESR1 and PGR. Higher levels of hormone receptors are predictive markers for endocrine therapies.  | Low (13)    |
|                     | E2F4_score                 | This gene signature assesses activity of the E2F4 transcription factor and its targets. A high E2F4 signature is associated with endocrine resistance to aromatase inhibitors and may predict sensitivity to CDK4/6 inhibitors <sup>9</sup> .  | High (89)   |
|                     | ERBB2                      | The ERBB2 gene is translated into Her2, a receptor tyrosine kinase involved in cell growth/proliferation and is both a prognostic marker and predictive of response to Her2 targeted therapies <sup>8</sup> .  | Low (15)    |
|                     | MUC4                       | Mucin 4 (MUC4) is a glycoprotein that is implicated in resistance to trastuzumab through interactions with the Her2 receptor. High MUC4 is associated with reduced sensitivity to trastuzumab <sup>10</sup> .  | High (96)   |
| Her2                | NRG1                       | NRG1 codes for neuregulin 1, a ligand of the Her3 receptor. In the phase II NeoSphere trial, high NRG1 gene expression was associated with reduced response to neoadjuvant trastuzumab, but not combination trastuzumab-pertuzumab <sup>11</sup> .   | Low (0)     |
|                     | pSTAT3-GS                  | A signature that predicts phosphorylation of STAT3 and was found to be predictive of trastuzumab resistance in the FinHer study $^{12}$ .  | Medium (66) |
|                     | Her2<br>amplicon_<br>MDX   | Proprietary MDX 43-gene signature used to assess Her2 status.  | Medium (60) |
|                     | Module7_<br>ERBB2          | Her2-signaling signature predictive of response to multiple anti-Her2 treatments in the I-SPY2 trial $^{\rm 13}$ .   | Low (28)    |
|                     | AURKA                      | Aurora Kinase A (AURKA) is a protein coding gene involved in cell proliferation and is an independent prognostic marker in breast cancer.  | High (72)   |
| Proliferation       | MKI67                      | MKI67 codes for the marker of proliferation Ki67 protein, a marker of poor prognosis in ER+/Her2- tumors, but not Her2+ or TNBC tumors. Ki67 levels are also predictive of sensitivity to neoadjuvant endocrine and chemotherapies <sup>8</sup> .  | High (97)   |
|                     | Module11_<br>proliferation | Proliferation index used in I-SPY2 trial broadly predictive of pathological complete response in hormone receptor positive patients <sup>4</sup> .   | High (93)   |
|                     | Proliferation_<br>MDX      | Proprietary MDX 7-gene signature used to assess cellular proliferation and cross-validate MKI67 expression levels.   | High (97)   |
|                     | CDK4                       | Cyclin-dependent kinases 4 and 6 (CDK4 and CDK6) are important proteins that regulate cell cycle progression from G1 to S phases. They are the main targets of   | High (82)   |
|                     | CDK6                       | CDK4/6 inhibitors such as palbociclib (Ibrance), ribociclib (Kisqali), and abemaciclib (Verzenio); however, it is unclear whether their expression level predicts CDK4/6 inhibitor sensitivity.  | Low (31)    |
| CDK4/6              | CCNE1                      |  | High (69)   |
| inhibitors          | CCND3                      | Elevated expression of the G1/S cell cycle regulators, CCNE1, CCND3, and CDKN2D, was associated with resistance to palbociclib (Ibrance) in the single-arm phase II  | Medium (64) |
|                     | CDKN2D                     | neoadjuvant trial (NeoPalAna) <sup>14</sup> .  | High (78)   |
| PIK3CA<br>mutations | PIK3CA-GS                  | A gene signature that is predictive of mutations in the PIK3CA gene and consequently the PI3K inhibitor alpelisib (Piqray). A high PIK3CA-GS score is also associated with activation of the PI3K/AKT pathway and loss of mTORC1 signaling, which may be relevant for response to mTOR inhibitors (e.g., everolimus) <sup>15</sup> . | Medium (57) |

| Treatment type/<br>Pathway | Gene signature                               | Description   | Sample A Percentile |  |
|----------------------------|--|---|---------------------|--|
|                            | TOP1   | The gene encoding DNA topoisomerase I, an enzyme critical for DNA transcription, is a target for anticancer drugs.  | High (94)           |  |
|                            | TOP2A  | The gene encoding DNA topoisomerase IIa, an enzyme critical for DNA transcription, is a target for anticancer drugs.  | High (80)           |  |
|                            | RAD51  | The DNA repair protein RAD51 homolog 1 (RAD51) is involved in the repair of damaged DNA and is associated with resistance to chemotherapy.  | High (90)           |  |
|                            | ERCC1  | The DNA excision repair protein ERCC-1 (ERCC1) is involved in the repair of DNA damage and is associated with resistance to chemotherapy.   | Low (23)            |  |
|                            | TYMS   | The Thymidylate Synthetase (TYMS) gene encodes a protein involved in DNA biosynthesis and is the target of the antimetabolite chemotherapy, 5-Fluorouracil <sup>16</sup> .                          | High (82)           |  |
|                            | SLC29A1                                      | SLC29A1 codes for the equilibrative nucleoside transporter 1 (ENT1) protein, which is a nucleoside transporter that is involved in transporting gemcitabine and capecitabine $^{17}$ .              | Low (32)            |  |
|                            | DHFR   | Dihydrofolate reductase is an enzyme coded by the DHFR gene and is involved in folate metabolism and cell growth. It is the target of the antimetabolite chemotherapy, methotrexate <sup>18</sup> . | Low (32)            |  |
|                            | SLC19A1                                      | SLC19A1 codes for the reduced folate carrier 1 (RFC1) protein, which transports methotrexate into the cell <sup>18</sup> .  | High (88)           |  |
|                            | CDK12  | The protein product of the Cyclin Dependent Kinase 12 (CDK12) gene regulates transcription, DNA repair pathways, and cell cycle <sup>19</sup> .   | High (70)           |  |
| Chemotherapy               | MAPs_Mitotic_ki<br>nases_neoadj_ch<br>emo118 | A 118-gene signature predicting response to neoadjuvant taxane chemotherapy <sup>20</sup> .   | High (93)           |  |
|                            | MAPs_Mitotic_ki<br>nases_neoadj_ch<br>emo17  | A 17-gene signature predicting response to neoadjuvant taxane chemotherapy $^{20}$ .  | High (90)           |  |
|                            | Early_Relapse_E<br>R.Neg                     | Chemoresistance gene signature predicting early relapse in ER-negative (ER-) patients after taxane-anthracycline chemotherapy <sup>21</sup> .   | Medium (47)         |  |
|                            | Residual_<br>disease_ ER.Neg                 | Chemoresistance gene signature predicting residual disease in ER-negative (ER-) patients after taxane-anthracycline chemotherapy <sup>21</sup> .  | Low (14)            |  |
|                            | Pathologic_<br>response_<br>ER.Neg           | Chemosensitivity gene signature predicting pathological complete response in ER-negative (ER-) patients after taxane-anthracycline chemotherapy $^{21}$ .   | High (69)           |  |
|                            | Early_Relapse_E<br>R.Pos                     | Chemoresistance gene signature predicting early relapse in ER-positive (ER+) patients after taxane-anthracycline chemotherapy <sup>21</sup> .   | Medium (53)         |  |
|                            | Residual_<br>disease_ ER.Pos                 | Chemoresistance gene signature predicting residual disease in ER-positive (ER+) patients after taxane-anthracycline chemotherapy <sup>21</sup> .  | High (90)           |  |
|                            | Pathologic_<br>response_<br>ER.Pos           | Chemosensitivity gene signature predicting pathological complete response in ER-positive (ER+) patients after taxane-anthracycline chemotherapy <sup>21</sup> .                                     | Medium (50)         |  |

| Treatment type/                   |   |   | Sample A    |  |
|-----------------------------------|---|---|-------------|--|
| Pathway                           | Gene signature                                      | Description   | Percentile  |  |
|                                   | PDCD1   | PDCD1 codes for the immune checkpoint marker PD-1. PD-1 is the target of pembrolizumab (Keytruda), an immunotherapy approved for the first-line treatment of metastatic TNBC.   | High (98)   |  |
|                                   | CD274   | CD274 codes for the immune checkpoint marker PD-L1. PD-L1 is the target of atezolizumab (Tecentriq), an immunotherapy approved for approved for the first-line treatment of metastatic TNBC.  | High (97)   |  |
|                                   | CTLA4   | Cytotoxic T lymphocyte-associated antigen 4 (CTLA4) is an immune checkpoint marker and the target of several immunotherapies such as durvalumab (Imfinzi).  | High (92)   |  |
| Immune system                     | Module5_<br>TcellBcell                              |   | High (98)   |  |
|                                   | Chemokine12   | Immune signatures predictive of response to pembrolizumab in TNBC patients enrolled in (I-SPY2 trial) <sup>13</sup> . All signatures, with the exception of   | High (97)   |  |
|                                   | STAT1   | Mast_cells, were associated with increased probability of achieving pathological complete response.   | High (96)   |  |
|                                   | Dendritic_cells                                     |   | High (99)   |  |
|                                   | Mast_cells  |   | Low (21)    |  |
| DNA damage and repair             | VCpred_TN   | DNA damage repair / immune signature predictive of response to veliparib (PARP inhibitor) and carboplatin (I-SPY2 trial) <sup>13</sup> .  | High (97)   |  |
|                                   | VEGFA   | A gene coding for vascular endothelial growth factor, a protein involved in angiogenesis, vasodilation, and endothelial cell growth. VEGF is the target of the drug bevacizumab (Avastin).  | Medium (38) |  |
| Angiogenesis/<br>hypoxia          | Hypoxia /<br>Angiogenesis /<br>Inflammatory_<br>MDX | Proprietary MDX 7-gene signature used to assess hypoxia, angiogenesis, and inflammation. Signature includes genes known to be predictive of response to bevacizumab (Avastin) in the neoadjuvant GeparQuinto trial <sup>22</sup> .                          | Medium (57) |  |
|                                   | ERBB2   | ERBB2 codes for the protein receptor Her2, which is a target for classical anti-<br>Her2 treatments. Low and ultralow levels of Her2 can be eligible for<br>treatment with the antibody-drug conjugate, trastuzumab deruxtecan<br>(Enhertu) <sup>23</sup> . | Low (15)    |  |
|                                   | TACSTD2   | TACSTD2 codes for Tumor-associated calcium signal transducer 2, also called Trop-2, which is the target of sacituzumab govitecan (Trodelvy), an antibody-drug conjugate approved for metastatic TNBC $^{24}$ .  | High (91)   |  |
|                                   | NECTIN4   | Nectin Cell Adhesion Molecule 4 (NECTIN4) is a cell adhesion molecule that is a target for antibody-drug conjugates in clinical trials for breast cancer.   | Low (31)    |  |
| ADC (antibody-<br>drug conjugate) | ERBB3   | ERBB3 codes for a member of the epidermal growth factor receptor (EGFR) family of receptor tyrosine kinases. It is under investigation in clinical trials for the antibody-drug conjugate patritumab deruxtecan.  | Low (12)    |  |
| targets                           | FOLR1   | FOLR1 encodes the protein Folate Receptor Alpha, which is an antibody-drug conjugate target under investigation for the treatment of metastatic TNBC in several phase 1 and 2 clinical trials.  | Medium (56) |  |
|                                   | F3  | F3 codes for tissue factor, coagulation factor III a target of several antibody drug-conjugates in phase 1 clinical trials.   | Low (32)    |  |
|                                   | SLC39A6   | The SLC39A6 genes encodes for the zinc transporter LIV-1, which is highly expressed in luminal breast cancers and is under investigation in several phase 1 and 2 clinical trials.  | High (76)   |  |
|                                   | ТРВС  | The trophoblast glycoprotein (TPBG) is overexpressed in many breast cancers and is the target of at least two antibody drug-conjugates undergoing phase 1 clinical trials.  | Medium (40) |  |

| Treatment type/<br>Pathway | Gene signature | Description   | Sample A<br>Percentile |  |
|----------------------------|----------------|---|------------------------|--|
|                            | ROR2           | A gene that encodes the Receptor Tyrosine Kinase Like Orphan Receptor 2 protein, a target of the antibody drug-conjugate (Ozuriftamab Vedotin (BA3021/CAB-ROR2-ADC) that is under investigation in a phase clinical trial for advanced solid cancers, including TNBC.                 | High (85)              |  |
|                            | CD276          | This gene codes for an immune checkpoint marker called CD276 (also known as B7-H3). It is the target of the antibody drug-conjugate (Mirzotamab clezutoclax (ABBV-155) that is in a phase 1 and 2 clinical trial for for advanced solid cancers, including breast cancer.             | Low (18)               |  |
|                            | VTCN1          | V-Set Domain Containing T Cell Activation Inhibitor 1 (VTCN1 also called B7-H4) is an immune checkpoint marker and the target of the antibody drug-conjugate, SGN-B7H4V, which is under investigation in a phase1 clinical trial for advanced solid cancers, including breast cancer. | Medium (36)            |  |
|                            | CEACAM5        | A gene that encodes CEA Cell Adhesion Molecule 5 protein, a target of the antibody drug-conjugate Tusamitamab ravtansine (SAR408701) that is under investigation in a phase 2 clinical trial for advanced solid cancers, including breast cancer.                                     | Low (18)               |  |

#### INTERPRETATION AND RECOMMENDATIONS

- High scores of all immune-related genes and gene signatures suggest good response using immune checkpoint inhibitors, such as atezolizumab, pembrolizumab or durvalumab.
- Sensitivity to neoadjuvant/adjuvant anthracycline/taxane chemotherapy is supported by the basal-like molecular subtype and basal-like 1 (BL1) TNBC subtype, gene signatures for anthracycline/taxane chemotherapy (high MAPs\_Mitotic\_kinases\_neoadj\_chemo118, moderate Early\_Relapse\_ER.Neg, low Residual\_disease\_ER.Neg, and high Pathologic\_response\_ER.Neg, and low ERCC1 (resistance marker). However, note the high expression of the chemotherapy resistance marker RAD51.
- In the I-SPY2 study, a high VCpred\_TN signature score, which reflects immune activation as well as lack of DNA damage repair, was shown to predict response to veliparib and carboplatin, a finding that was also validated in the BrighTNess study.
- High levels of TACSTD2 predict sensitivity to the Trop-2 targeting ADC, sacituzumab govitecan. High levels of TOP1, which is the target of the SN-38 cytotoxic payload of sacituzumab govitecan, supports the expected benefit.
- High CDK12 is associated with increased sensitivity to methotrexate-based chemotherapy regimens. Markers of methotrexate resistance (high DHFR and low SLC19A1) are also absent. Therefore, methotrexate is predicted to be beneficial.
- High levels of TYMS may predict response to 5-fluorouracil.
- The sample shows high expression of several targets for antibody drug-conjugates, including SLC39A6 and ROR2. These are currently being investigated in clinical trials for breast cancer.

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