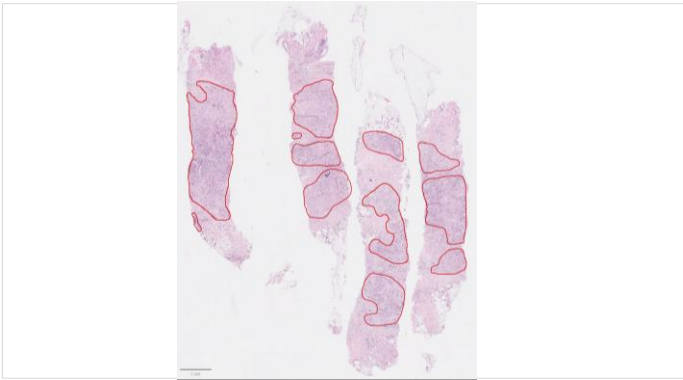


| PATIENT             |  | SAMPLE                      | ORDERING PHYSICIAN |                                  |
|---------------------|--|-----------------------------|--------------------|----------------------------------|
| Name:               |  | Specimen ID:                | MDX-PT-667         | Name:                            |
| ID:                 |  | Date of Collection:         | Address:           |                                  |
| Date of Report:     |  | Source:                     | Breast             | Contact:                         |
| Initial or revised: |  | Original                    | Type:              | Neoadjuvant                      |
|                     |  | Information about revision: |                    |                                  |
|                     |  | Quality:                    |                    | Revision reason (if applicable): |

TEST RESULT

| Receptor | Gene  | NGS Output (TPM) | NGS Positivity Threshold (TPM) | NGS Result | FISH Concordance |
|----------|-------|------------------|--------------------------------|------------|------------------|
| ER       | ESR1  | 55.416           | ≥5.0                           | POSITIVE   | CONCORDANCE      |
| PR       | PGR   | 90.551           | ≥1.4                           | POSITIVE   | CONCORDANCE      |
| HER2     | ERBB2 | 339.612          | ≥154.7                         | POSITIVE   | CONCORDANCE      |
| Ki-67    | MKI67 | 19.051           | ≥18.9                          | POSITIVE   | CONCORDANCE      |

LASER CAPTURE MICRODISSECTION



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

AUTHORISATION

| Reviewer | Releaser |
|----------|----------|
| Name:    | Name:    |

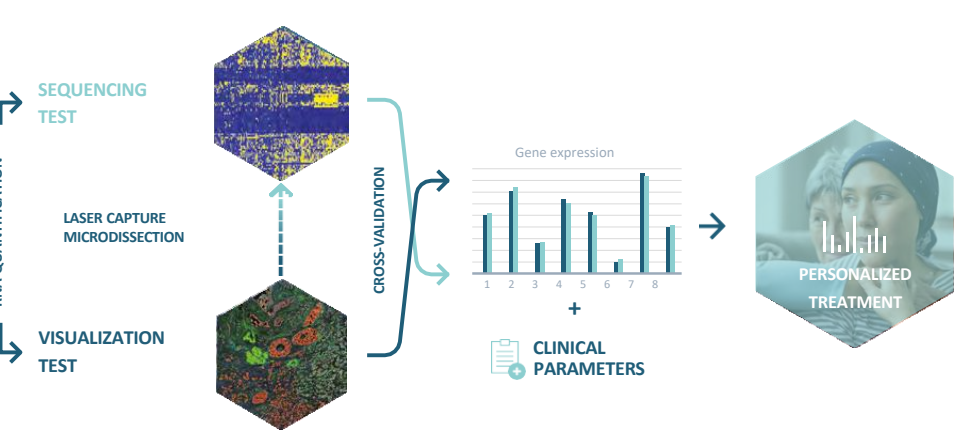
Patient Name:

Date of collection:

Date of Report:

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:

- 1. **RECEPTOR STATUS:** for RNA expression of the estrogen receptor, progesterone receptor, Her2 receptor, and Ki67 measured and cross-validated by the two tests.
- 2. **MOLECULAR SUBTYPE:** based on RNA gene expression tumor biology.
- 3. **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 (1-33)        |
| Medium (<33-66)   |
| High (<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

Patient Name:

Date of collection:

Date of Report:

RESULTS SUMMARY

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

RECEPTOR STATUS

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

MOLECULAR SUBTYPE

| Intrinsic subtype | TNBC subtype |
|-------------------|--------------|
| Luminal B         | -            |

| THERAPY                          | KEY FINDINGS                                                  | PREDICTED CLINICAL BENEFIT*                                |
|----------------------------------|---------------------------------------------------------------|------------------------------------------------------------|
| Anti-Her2                        | Molecular subtype, gene expression, gene expression signature | Higher possibility of benefit                              |
| Endocrine therapy                | Molecular subtype, gene expression, gene expression signature | Higher possibility of benefit                              |
| Trastuzumab deruxtecan (Enhertu) | Gene expression                                               | Higher possibility of benefit                              |
| 5-fluorouracil (5-FU)            | Gene expression                                               | Higher possibility of benefit                              |
| Methotrexate                     | Gene expression                                               | Higher possibility of benefit                              |
| ADCs in clinical trials          | Gene expression                                               | Higher possibility of benefit (off-label, clinical trials) |
| Trastuzumab emtansine (T-DM1)    | Gene expression signature                                     | Lower possibility of benefit                               |
| Gemcitabine and Capecitabine     | Gene expression                                               | Lower possibility of benefit                               |

\*Predicted Clinical Benefit is based on inferences from various data sources. The relationship of Multiplex8+ results to actual Clinical benefit has not been validated.

Patient Name:

Date of collection:

Date of Report:

MOLECULAR SUBTYPE

| Intrinsic subtype | TNBC subtype <sup>2-4</sup> |
|-------------------|-----------------------------|
| Luminal B         | -                           |

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>.

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 the Multiplex8+ are concordant with the immunohistochemistry findings, with the exception of *MKI67*, which was positive by Multiplex8+. Positive *MKI67* expression should be confirmed by retesting the specimen for Ki-67 IHC expression.

INTERPRETATION

- The biology of the Luminal B tumor type is consistent with the immunohistochemical and clinical designation.
- Luminal B tumors are generally ER+, but may have variable ER/PR expression, and they can be either Her2+ or Her2-. Relative to luminal A tumors, they may have higher grade, proliferative activity, poorer outcomes, and consequently may require chemotherapy in addition to endocrine therapy.

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 type/ Pathway | Gene signature        | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Sample A Percentile |  |
|-------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--|
| Prognosis               | HR+_ Prognostic       | 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                 |  |
|                         | TNBC_ Prognostic_ MDX | MultiplexDX (MDX) 60-gene signature for recurrence-free survival risk prediction for TNBC patients. The signature was derived from the MDX-BRCA retrospective cohort <sup>1</sup> , comprising 159 TNBC patients and validated on 508 TNBC patients from two large international cohorts spanning Asia, Europe, and the USA.                                                                                                                                                                                                                                                                                                                                                                                                      | High risk           |  |

Patient Name:

Date of collection:

Date of Report:

| Treatment type/ Pathway | Gene signature         | Description                                                                                                                                                                                                                                                                                                                                                                 | Sample A Percentile |  |
|-------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--|
| Luminal signatures      | ESR1                   | The ESR1 and PGR genes encode for the estrogen (ER) and progesterone (PR) hormone receptors, respectively, which are involved in growth, metabolism, and reproductive functions. High ER/PR is predictive of endocrine therapies and low or negative ER/PR is associated with poor prognosis <sup>8</sup> .                                                                 | Medium (50)         |  |
|                         | PGR                    |                                                                                                                                                                                                                                                                                                                                                                             | High (93)           |  |
|                         | ESR1_PGR average       | The average gene expression of ESR1 and PGR. Higher levels of hormone receptors are predictive markers for endocrine therapies.                                                                                                                                                                                                                                             | High (81)           |  |
|                         | 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> .                                                                                                                               | Low (32)            |  |
| Her2                    | 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> .                                                                                                                                                               | High (88)           |  |
|                         | 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> .                                                                                                                                                               | Medium (66)         |  |
|                         | 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> .                                                                                                                          | High (87)           |  |
|                         | pSTAT3-GS              | A signature that predicts phosphorylation of STAT3 and was found to be predictive of trastuzumab resistance in the FinHer study <sup>12</sup> .                                                                                                                                                                                                                             | Medium (52)         |  |
|                         | Her2 amplicon_MDX      | Proprietary MDX 43-gene signature used to assess Her2 status.                                                                                                                                                                                                                                                                                                               | High (94)           |  |
|                         | Module7_ERBB2          | Her2-signaling signature predictive of response to multiple anti-Her2 treatments in the I-SPY2 trial <sup>13</sup> .                                                                                                                                                                                                                                                        | High (85)           |  |
|                         | T-DM1_pred             | The trastuzumab emtansine (T-DM1) predictive signature is a Research Use Only classifier that combines 19 genes/gene signature involved in the mechanism of action of T-DM1 and was shown to predict response in the T-DM1 arm of the I-SPY2 trial ( <a href="https://www.nature.com/articles/s41467-024-55583-2">https://www.nature.com/articles/s41467-024-55583-2</a> ). | Medium (36)         |  |
| Proliferation           | AURKA                  | Aurora Kinase A (AURKA) is a protein coding gene involved in cell proliferation and is an independent prognostic marker in breast cancer.                                                                                                                                                                                                                                   | Low (29)            |  |
|                         | 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> .                                                                                                                           | Medium (55)         |  |
|                         | Module11_proliferation | Proliferation index used in I-SPY2 trial broadly predictive of pathological complete response in hormone receptor positive patients <sup>4</sup> .                                                                                                                                                                                                                          | Low (28)            |  |
|                         | Proliferation_MDX      | Proprietary MDX 7-gene signature used to assess cellular proliferation and cross-validate MKI67 expression levels.                                                                                                                                                                                                                                                          | Medium (48)         |  |
| CDK4/6 inhibitors       | 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 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 (32)            |  |
|                         | CDK6                   |                                                                                                                                                                                                                                                                                                                                                                             | High (90)           |  |
|                         | CCNE1                  | 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 neoadjuvant trial (NeoPalAna) <sup>14</sup> .                                                                                                                                                           | Low (3)             |  |
|                         | CCND3                  |                                                                                                                                                                                                                                                                                                                                                                             | Low (16)            |  |
|                         | CDKN2D                 |                                                                                                                                                                                                                                                                                                                                                                             | Low (10)            |  |
| PIK3CA 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> .                                        | High (91)           |  |

| Patient Name:              |                                           | Date of collection:                                                                                                                                                                                                                                 | Date of Report:        |  |
|----------------------------|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--|
| Treatment type/<br>Pathway | Gene signature                            | Description                                                                                                                                                                                                                                         | Sample A<br>Percentile |  |
| Chemotherapy               | TOP1                                      | The gene encoding DNA topoisomerase I, an enzyme critical for DNA transcription, is a target for anticancer drugs.                                                                                                                                  | Medium (39)            |  |
|                            | TOP2A                                     | The gene encoding DNA topoisomerase IIa, an enzyme critical for DNA transcription, is a target for anticancer drugs.                                                                                                                                | High (95)              |  |
|                            | RAD51                                     | The DNA repair protein RAD51 homolog 1 (RAD51) is involved in the repair of damaged DNA and is associated with resistance to chemotherapy.                                                                                                          | Medium (54)            |  |
|                            | 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 (27)               |  |
|                            | 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> .                                                                          | Medium (36)            |  |
|                            | SLC29A1                                   | SLC29A1 codes for the equilibrative nucleoside transporter 1 (ENT1) protein, which is a nucleoside transporter that is involved in transporting gemcitabine and capecitabine <sup>17</sup> .                                                        | Low (5)                |  |
|                            | 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> .                                                 | High (97)              |  |
|                            | SLC19A1                                   | SLC19A1 codes for the reduced folate carrier 1 (RFC1) protein, which transports methotrexate into the cell <sup>18</sup> .                                                                                                                          | Medium (41)            |  |
|                            | CDK12                                     | The protein product of the Cyclin Dependent Kinase 12 (CDK12) gene regulates transcription, DNA repair pathways, and cell cycle <sup>19</sup> .                                                                                                     | High (92)              |  |
|                            | Chemotherapy_MDX                          | MultiplexDX (MDX) 45-gene signature predicting pathological complete response (pCR) to neoadjuvant chemotherapy for TNBC patients, developed and validated on 938 TNBC patients from 20 diverse cohorts, including randomized Phase 2 and 3 trials. | pCR negative           |  |
| Immune system              | 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.                                                                       | Low (26)               |  |
|                            | CD274                                     | CD274 codes for the immune checkpoint marker PD-L1. PD-L1 is the target of atezolizumab (Tecentriq), an immunotherapy approved for the first-line treatment of metastatic TNBC.                                                                     | Low (27)               |  |
|                            | CTLA4                                     | Cytotoxic T lymphocyte-associated antigen 4 (CTLA4) is an immune checkpoint marker.                                                                                                                                                                 | Low (26)               |  |
|                            | Immunotherapy_MDX                         | MultiplexDX (MDX) 5-gene signature predicting pathological complete response (pCR) to neoadjuvant immunotherapy for TNBC patients, developed and validated on 60 TNBC patients from the I-SPY2 pembrolizumab and durvalumab arms.                   | pCR negative           |  |
| 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> .                                                                                                            | Low (5)                |  |
| Angiogenesis/<br>hypoxia   | 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).                                                          | Low (29)               |  |
|                            | Hypoxia / Angiogenesis / Inflammatory_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> .                  | Low (29)               |  |

Patient Name:

Date of collection:

Date of Report:

| Treatment type/<br>Pathway                   | Gene signature | Description                                                                                                                                                                                                                                                                                                                                                                             | Sample A<br>Percentile |  |
|----------------------------------------------|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--|
| ADC (antibody-<br>drug conjugate)<br>targets | ERBB2          | ERBB2 codes for the protein receptor Her2, which is a target for classical anti-Her2 treatments. Low and ultralow levels of Her2 can be eligible for treatment with the antibody-drug conjugate, trastuzumab deruxtecan (Enhertu) <sup>23</sup> .                                                                                                                                       | High (88)              |  |
|                                              | TACSTD2        | TACSTD2 codes for Tumor-associated calcium signal transducer 2, also called Trop-2, which is the target of sacituzumab govitecan (Trodely), an antibody-drug conjugate approved for metastatic HR+/HER2- or TNBC <sup>24</sup> and also the drug datopotamab deruxtecan (Datroway), an ADC being investigated in clinical trials for metastatic HR+/HER2- breast cancer <sup>25</sup> . | Medium (59)            |  |
|                                              | 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.                                                                                                                                                                                                                               | High (84)              |  |
|                                              | 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.                                                                                                                                                                        | Medium (54)            |  |
|                                              | FOLR1          | FOLR1 encodes the protein Folate Receptor Alpha, which is an antibody-drug conjugate target under investigation in several phase 1 and 2 clinical trials for breast cancer.                                                                                                                                                                                                             | High (82)              |  |
|                                              | F3             | F3 codes for tissue factor, coagulation factor III a target of several antibody-drug conjugates in phase 1 and 2 clinical trials.                                                                                                                                                                                                                                                       | Medium (42)            |  |
|                                              | 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 (94)              |  |
|                                              | 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 advanced solid cancers, including breast cancer.                                                                                                                   | Medium (65)            |  |
|                                              | 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 phase 1 and 2 clinical trial for advanced solid cancers, including breast cancer.                                                                                            | Medium (61)            |  |
|                                              | 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.                                                                                                                                       | High (80)              |  |

## INTERPRETATION\*

- High expression of the ERBB2 gene and Her2 signatures (Her2 amplicon\_MDX and Module7\_ERBB2) suggest that Her2-related therapies, such as trastuzumab, pertuzumab, trastuzumab deruxtecan, trastuzumab emtansine, tucatinib, lapatinib, and neratinib, may be beneficial. However, it should be noted that the sample shows positive expression of estrogen/luminal markers and intermediate to high expression of the resistance markers NRG1, MUC4, and pSTAT3-GS.
- Classification as luminal B, positive ESR1/PGR expression, and low E2F4\_score expression suggest that endocrine therapy, such as tamoxifen and aromatase inhibitors, may be beneficial.
- The sample shows an intermediate level of TOP1, which is the target of the cytotoxic component of the antibody-drug conjugate (ADC) trastuzumab deruxtecan (Enhertu). High expression of both the antigen and the target of the cytotoxic component suggests that trastuzumab deruxtecan may be effective in the advanced/metastatic setting.
- Intermediate TYMS levels may predict response to 5-fluorouracil (5-FU) and chemotherapy that is metabolized to 5-FU (e.g., capecitabine).
- High CDK12 levels are associated with increased sensitivity to methotrexate-based chemotherapy regimens.

\*Supporting literature can be found in the relevant gene description above. This report and its citation coverage are currently being revised.

|               |                     |                 |
|---------------|---------------------|-----------------|
| Patient Name: | Date of collection: | Date of Report: |
|---------------|---------------------|-----------------|

INTERPRETATION\*

- The sample shows high expression of SLC39A6, which is a target for antibody-drug conjugates currently being investigated in clinical trials for HER2-positive breast cancer.
- A negative T-DM1\_pred signature score suggests that the patient will not benefit from the antibody-drug conjugate trastuzumab emtansine (T-DM1).
- Expression levels of nucleoside transporters, such as SLC29A1, are associated with sensitivity to gemcitabine and capecitabine, with low levels predicting resistance.

*\*Supporting literature can be found in the relevant gene description above. This report and its citation coverage are currently being revised.*

AUTHORISATION

|          |          |
|----------|----------|
| Reviewer | Releaser |
| Name:    | Name:    |

REFERENCES

1. Gendoo, D.M.A. et al. Bioinformatics 32(7): 1097–1099 (2016). 2. Lehmann, B. D. et al. J Clin Invest 121: 2750–2767 (2011). 3. Lehmann, B. D. et al. PLoS One 11: e0157368 (2016). 4. Bareche, Y. et al. Ann Oncol 29: 895–902 (2018). 5. Paik, S. et al. N Engl J Med 351(27): 2817–2826 (2004). 6. van’t Veer, L.J. et al. Nature 415(6871): 530–536 (2002). 7. Parker, J.S. et al. J Clin Oncol 27(8): 1160–1167 (2009). 8. Cardoso, F. et al. Ann Oncol 30(8): 1194–1220 (2019). 9. Guerrero-Zotano, A.L. et al. Clin Cancer Res 24(11): 2517–2529 (2018). 10. Mercogliano, M.F. et al. Clin Cancer Res 23(3): 636–648 (2017). 11. Guardia, C. et al., Clin Cancer Res 27(18): 5096–5108 (2021). 12. Sonnenblick, A. et al. BMC Med 13:177 (2015). 13. Wolf, D. M. et al. Cancer Cell 40: 609–623.e6 (2022). 14. Ma, C.X. et al. Clin Cancer Res 23(15): 4055–4065 (2017). 15. Loi, S. et al. PNAS 107(22): 10208–10213 (2010). 16. Foekens, J.A. et al. Cancer Res. 61: 1421–1425 (2001). 17. Mackey, J.R. et al. Clin Cancer Res. 8(1): 110–116 (2002). 18. Yang, V. et al. RSC Med Chem. 11(6): 646–664 (2020). 19. Filippone, M.G. et al. Nat Commun. 13(1): 2642 (2022). 20. Rodrigues-Ferreira, S. et al. Proc Natl Acad Sci USA 116(47): 23691–23697 (2019). 21. Hatzis, C. et al. JAMA 305(18):1873–81 (2011). 22. Karn, T. et al. Clin Cancer Res 26: 1896–1904 (2020). 23. Modi, S. et al. N Engl J Med 387: 9–20 (2022). 24. Michaleas, S. et al. ESMO Open 7 (2022). 25. Bardia, A. et al. J Clin Oncol 43(3): 285–296 (2025).