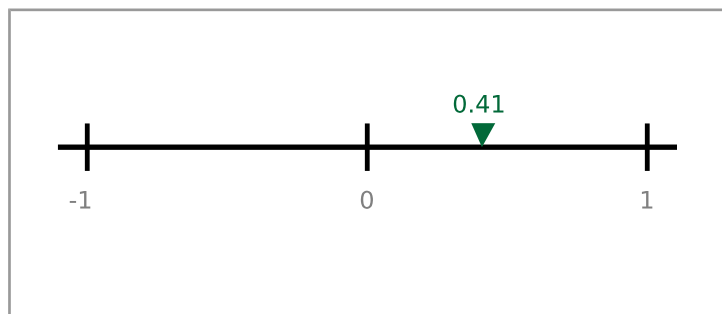


# MammaPrint® and Blueprint® Technical Report

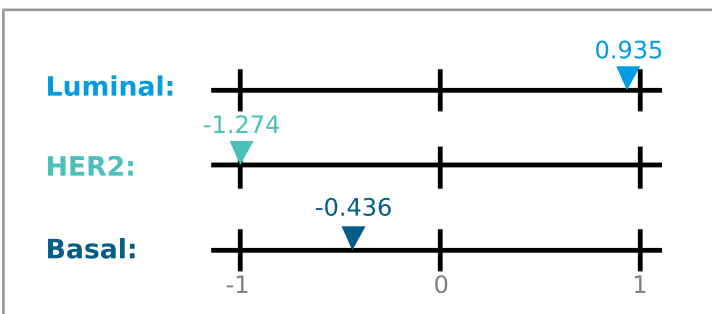
Specimen File ID:

## TEST RESULTS

MammaPrint: **Low Risk**



Blueprint: **Luminal-type**



If a FFPE sample's MammaPrint Index (MPI) falls within a pre-defined area around the classification cut-off between -0.058 and +0.058, the classification accuracy is less than 90%.

## RUN INFORMATION

Samples in Run	Instrument Serial Number	Date of Data Submission	Date of Report Generation
28	@M02340	18-Mar-2026 06:17:56 UTC	18-Mar-2026 07:59:37 UTC
Human Assembly Version	Software Version	QC Model Version	
GRCh37 (hg19)	Tulip v1.0.0	v3.1	

## DETAILED QUALITY CONTROL INFORMATION

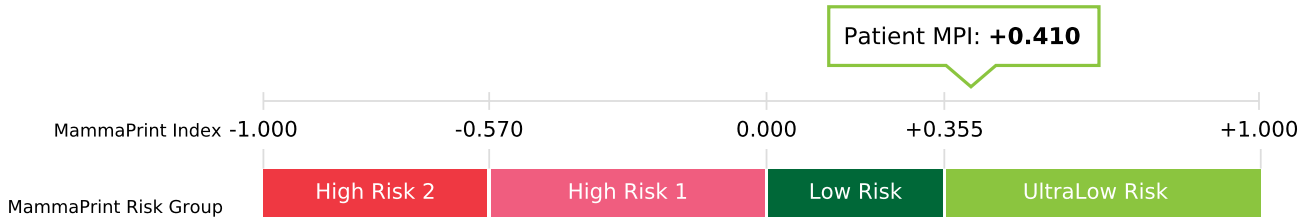
Quality Control Metric	Value	Verdict
Total Read Counts (log <sub>2</sub> )	19.629	Pass
Percent Mapped	91.8%	Pass
Percent On Target	73.3%	Pass
Percent Q30	90.6%	Pass
RNA Quality Metric	0.968	Pass
Additional NGS Run Quality Assessment		Pass
MammaPrint Quality Assessment		Pass
Blueprint Quality Assessment		Pass
<b>Overall Assessment</b>		<b>Pass</b>

Authorized Signature



GENOMIC TESTING RESULTS

MammaPrint Risk Group	<b>UltraLow Risk</b>	MammaPrint Index	<b>+0.410</b>	Blueprint Molecular Subtype	<b>Luminal A</b>
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CLINICAL IMPLICATIONS

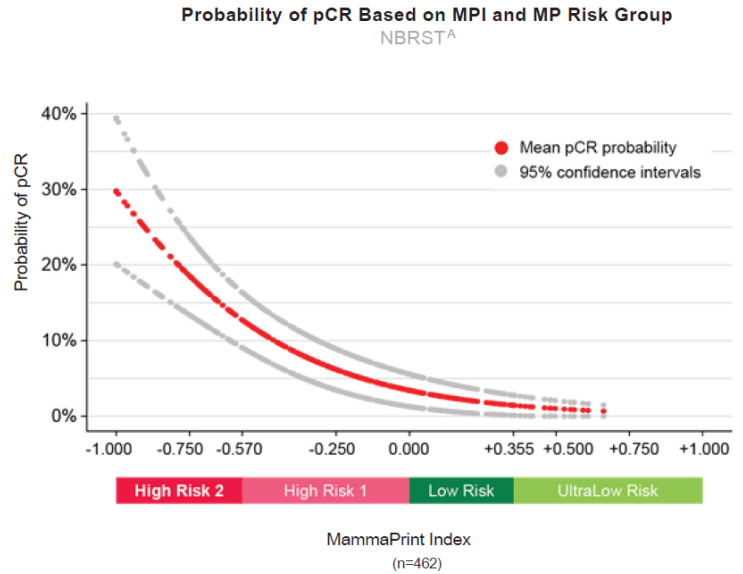
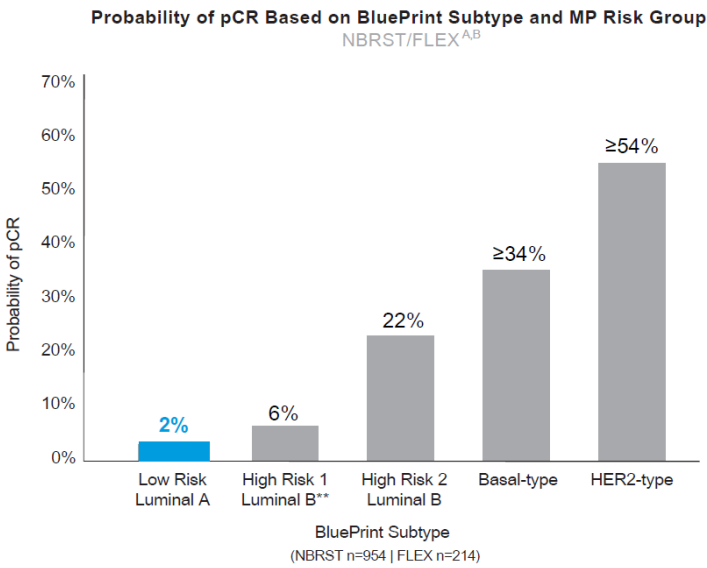
This explanation of results assumes the patient's tumor is hormone-receptor positive. Clinical implications are based on observed outcomes from clinical research studies depicted below and further referenced on page 3. Results should be taken in the context of all other relevant clinico-pathological factors and standard practice of medicine.

<p><b>Neoadjuvant Chemotherapy Planning</b></p> <p>Probability of pCR with Neoadjuvant Chemotherapy</p> <p><b>2%</b></p> <p><small>NBRST<sup>A</sup></small></p>	<p><b>Adjuvant Chemotherapy Planning</b></p> <p>Absolute Chemotherapy Benefit</p> <p><b>No</b></p> <p><small>MINDACT<sup>D</sup></small></p> <hr/> <p>8-Year Distant Metastasis Free Interval with ET alone</p> <p><b>97.4%</b></p> <p><small>MINDACT<sup>D</sup></small></p>	<p><b>Adjuvant Endocrine Therapy Planning</b></p> <p>Standard Endocrine Therapy Duration <small>Applies only to LN0 patients</small></p> <table border="0"> <tr> <td>Pre-Menopausal</td> <td>Post-Menopausal</td> </tr> <tr> <td><b>5 years</b></td> <td>Consider &lt; 5 years in event of intolerance</td> </tr> </table> <p><small>STO-3<sup>C</sup></small></p> <hr/> <p>Absolute Benefit from Extended Endocrine Therapy <small>Applies only to post-menopausal patients</small></p> <p><b>No</b></p> <p><small>NSABP B-42<sup>E</sup></small></p>	Pre-Menopausal	Post-Menopausal	<b>5 years</b>	Consider < 5 years in event of intolerance
Pre-Menopausal	Post-Menopausal					
<b>5 years</b>	Consider < 5 years in event of intolerance					

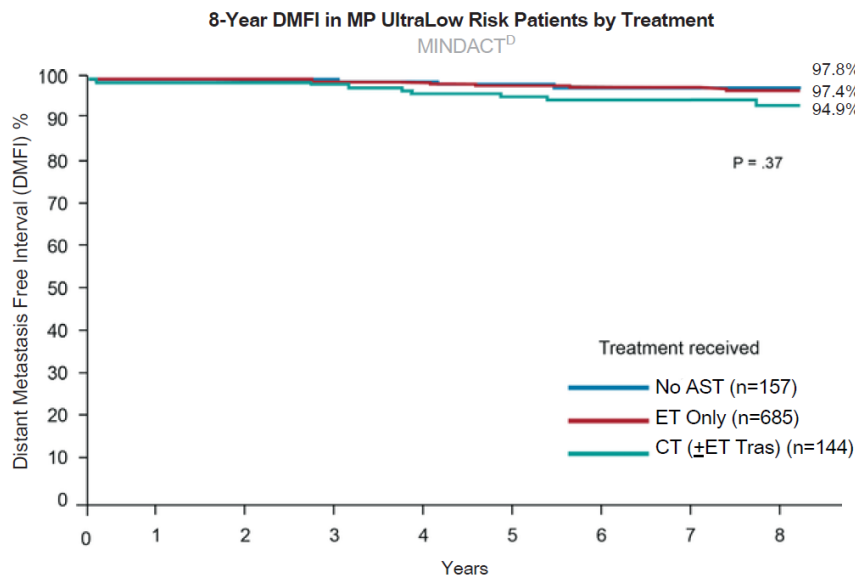
ET: Endocrine Therapy | LN0: Lymph Node Negative | MPI: MammaPrint Index | pCR: Pathologic Complete Response

**Note:** This summary is provided for general informational purposes. It is not part of any official diagnostic report. Please refer to the MammaPrint and Blueprint Technical Report and Instructions for Use for comments, assay information, and references.

NEOADJUVANT CHEMOTHERAPY PLANNING DATA\*



ADJUVANT CHEMOTHERAPY PLANNING DATA\*



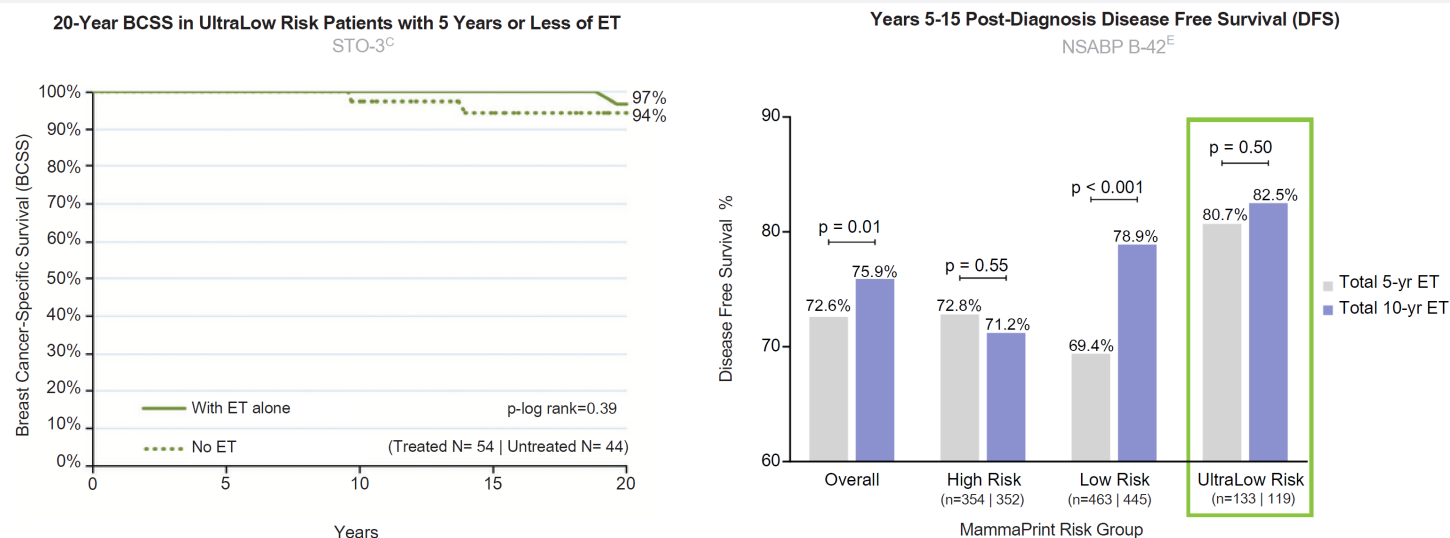
\*Clinical implications are based on observed outcomes from clinical research studies depicted above and further referenced on page 3. Results should be taken in the context of all other relevant clinico-pathological factors and standard practice of medicine.

\*\*A pathologically ER+/HER2+ patient with a Luminal B-Type result has a 16% probability of pCR with neoadjuvant chemotherapy.

AST: Adjuvant Systemic Treatment | ET: Endocrine Therapy | MP: MammaPrint | MPI: MammaPrint Index | pCR: Pathologic Complete Response  
Tras: Trastuzumab

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## ADJUVANT ENDOCRINE THERAPY (ET) PLANNING DATA\*



\*Clinical implications are based on observed outcomes from clinical research studies depicted above and further referenced below. Results should be taken in the context of other relevant clinico-pathological factors and standard practice of medicine. The standard endocrine data only apply to post-menopausal women with clinically and/or pathologically confirmed negative lymph nodes. Data are limited in the setting of positive lymph nodes. Clinical implications of MammaPrint UltraLow Risk on pre-operative core needle biopsy samples in clinically node-negative breast cancer will apply if lymph nodes are found to be pathologically negative at surgical resection.

## CLINICAL STUDY AND TRIAL REFERENCES

- A. NBRST:** A prospective study that included 1,069 patients with histologically proven early stage breast cancer (ESBC), aged 18-90 years, who were scheduled to receive neoadjuvant therapy. Patients were enrolled from 40 US institutions and received both MammaPrint and Blueprint genomic testing. Treatment was at the discretion of the physician adhering to NCCN-approved or other peer-reviewed, established regimens. Intrinsic preoperative chemosensitivity and long-term outcomes were precisely determined by MammaPrint and Blueprint regardless of patient age, supporting the utility of these assays to inform treatment and surgical decisions in ESBC.<sup>1-4</sup>
- B. FLEX (NCT03053193):** An ongoing prospective, observational trial that has enrolled >17,000 patients with ESBC who were tested with MammaPrint as standard of care, with or without Blueprint, and consented to clinically annotated full transcriptome data collection (data locked August 2024).<sup>5-7</sup>
- C. STO-3:** The prospective Stockholm tamoxifen trial included 1,780 lymph node-negative, HR+, post-menopausal patients with tumors smaller than or equal to 3 cm in diameter, randomized to 2 (65%) to 5 (35%) years of adjuvant tamoxifen vs no adjuvant treatment. MammaPrint was retrospectively assessed on a translational cohort of 652 patients; 313 had received tamoxifen (2-5 years) and 339 had not received adjuvant systemic therapy.<sup>8,9</sup>
- D. MINDACT:** A phase 3, prospective, randomized clinical trial that enrolled 6,693 patients at 112 academic and community hospitals in 9 European countries. Patients were eligible to enroll if they were women aged 18-70 years with histologically confirmed unilateral primary non-metastatic (M0) invasive breast cancer (clinical stage T1 or T2 or operable T3) with 0-3 positive axillary lymph nodes. For hormone-positive women ≤ 50 years, there was a 2.6% benefit in 5-year distant metastasis free survival for women who received chemotherapy (CT) vs those that received endocrine therapy (ET) alone. Although this difference is possibly due to CT-induced ovarian function suppression, it should be part of informed, shared decision making.<sup>10,11</sup>
- E. NSABP B-42:** A prospective adjuvant extended ET trial which included 3,966 post-menopausal women with stage I-IIIA hormone receptor-positive breast cancer, who were disease-free after 5 years of ET. Patients were randomized to receive either an additional 5 years of letrozole (EET) or placebo. MammaPrint was retrospectively analyzed on a translational cohort of 1,866 patients; 916 patients received EET and 950 patients received placebo.<sup>12</sup>

### References:

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- Whitworth P et al. JCO Precis Oncol. 2022 Apr;6(1):e2100463.
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- Lopes-Cardozo J et al. J Clin Oncol. 2022;40(12):1335-1345.
- Rastogi P et al. J Clin Oncol. 2024;00:1-9.

### Agendia Explanation of Results Disclaimer:

The summary pages are provided for general informational purposes only. Please refer to the MammaPrint and Blueprint Technical Report and Instructions for Use for comments, assay information, and references. This information (without limitation, advice and recommendations) and services are neither medical nor health care advice for any individual problem nor a substitute for advice and services from a qualified health care provider familiar with the patient's medical history. All publication information can be found at [www.agendia.com](http://www.agendia.com).