



# MN Target Antigen ID, LC MS, Ts

## MSMN

|                                                                                                                      |                               |                               |               |                                   |                                   |
|----------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------|---------------|-----------------------------------|-----------------------------------|
| PATIENT NAME<br><b>SOFTVALIDATION, MSMN</b>                                                                          |                               |                               |               | CASE NUMBER<br><b>CR-24-989</b>   | ORDER NUMBER<br><b>O822000154</b> |
| PATIENT ID<br>SA00173000                                                                                             | DATE OF BIRTH<br>03/15/1988   | AGE AT COLLECTION<br>36 Y     | SEX<br>Female | REQUESTED BY<br>CLIENT CLIENT     |                                   |
| COLLECTED<br>11/20/2024, 00:00                                                                                       | RECEIVED<br>11/22/2024, 08:21 | REPORTED<br>11/22/2024, 08:26 |               |                                   |                                   |
| The collected, received, and reported dates and times on the report are in the time zone of the performing location. |                               |                               |               | CLIENT ORDER NUMBER<br>SA00173000 |                                   |
|                                                                                                                      |                               |                               |               | CLIENT MRN<br>SA00173000          |                                   |

### INTERPRETATION

Kidney, needle biopsy for membranous nephropathy mass spectrometry (SP-24-123-A1; 11/20/2024):

#### MASS SPECTROMETRY

Liquid chromatography tandem mass spectrometry (LC MS/MS) was performed on peptides extracted from glomeruli that were microdissected from the paraffin-embedded specimen.

LC MS/MS detected a peptide profile consistent with Semaphorin 3B (SEMA3B). These findings support the diagnosis of SEMA3B-associated MN.

Reference: Sethi S, Debiec H, Madden B, *et al.* Semaphorin 3B-associated membranous nephropathy is a distinct type of disease predominantly present in pediatric patients. *Kidney International* 2020; 98: 1253-1265.

Sent-in electron photomicrographs and the outside pathology report are reviewed to confirm the diagnosis of membranous nephropathy.

This result should be interpreted in the appropriate clinical context for e.g. autoimmune diseases, tumors, hematopoietic stem cell transplant (HSCT), infections, polyneuropathies, and drugs such as lipoic acid and non-steroidal anti-inflammatory drugs.

### REPORT ELECTRONICALLY SIGNED BY

KELLI STROUP

### MATERIAL RECEIVED

A. SP-24-132: Kidney  
1 block

### DISCLAIMER

This test was developed and its performance characteristics determined by Mayo Clinic in a manner consistent with CLIA requirements. This test has not been cleared or approved by the U.S. Food and Drug Administration.

PATIENT NAME SOFTVALIDATION, MSMN

CR-24-989



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|--------------|----------------------|--------------|------------|
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| PATIENT ID   | SA00173000           | ORDER NUMBER | O822000154 |

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