



COLLEGE of AMERICAN
PATHOLOGISTS



The College of American Pathologists
certifies that the laboratory named below

Macrogen Inc.
Macrogen HQ Laboratory
Seoul, Geu, South Korea
Carlos Ruiz, MD

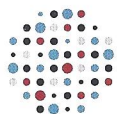
CAP Number: 9481459
AU-ID: 1801776

has met all applicable standards for accreditation and is hereby accredited by the
College of American Pathologists' Laboratory Accreditation Program. Reinspection
should occur prior to May 28, 2020 to maintain accreditation.

Accreditation does not automatically survive a change in director, ownership,
or location and assumes that all interim requirements are met.

Chair, Accreditation Committee

President, College of American Pathologists



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PATHOLOGISTS



The College of American Pathologists
certifies that the laboratory named below

Macrogen Inc.
Macrogen PMC Lab
Seongnam-si, Gye, South Korea
Carlos Ruiz, MD

CAP Number: 9501039
AU-ID: 1806456

has met all applicable standards for accreditation and is hereby accredited by the
College of American Pathologists' Laboratory Accreditation Program. Reinspection
should occur prior to May 28, 2020 to maintain accreditation.

Accreditation does not automatically survive a change in director, ownership,
or location and assumes that all interim requirements are met.

Chair, Accreditation Committee

President, College of American Pathologists



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The College of American Pathologists
certifies that the laboratory named below

PSOMAGEN, INC.
Laboratory
Rockville, Maryland
Carlos Ruiz, MD

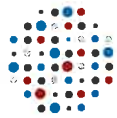
CAP Number: 8742212
AU-ID: 1694989
CLIA Number: 21D2062464

has met all applicable standards for accreditation and is hereby accredited by the
College of American Pathologists' Laboratory Accreditation Program. Reinspection
should occur prior to August 14, 2021 to maintain accreditation.

Accreditation does not automatically survive a change in director, ownership,
or location and assumes that all interim requirements are met.

Chair, Accreditation Committee

President, College of American Pathologists



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The College of American Pathologists
certifies that the laboratory named below

Macrogen Asia Pacific Pte Ltd
Singapore Main Lab
Singapore, Singapore
Christopher Wong, PhD, MBA, BS

CAP Number: 8372146
AU-ID: 1860479

has met all applicable standards for accreditation and is hereby accredited by the
College of American Pathologists' Laboratory Accreditation Program. Reinspection
should occur prior to November 13, 2021 to maintain accreditation.

Accreditation does not automatically survive a change in director, ownership,
or location and assumes that all interim requirements are met.

Chair, Accreditation Committee

President, College of American Pathologists