

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization

International Bureau

(43) International Publication Date
19 July 2018 (19.07.2018)



(10) International Publication Number
WO 2018/130836 A1

(51) International Patent Classification:

G01N 33/569 (2006.01) C07K 16/12 (2006.01)

A61K 39/00 (2006.01) C07K 14/35 (2006.01)

(21) International Application Number:

PCT/GB2018/050075

(22) International Filing Date:

11 January 2018 (11.01.2018)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

1700487.0 11 January 2017 (11.01.2017) GB

(72) Inventor; and

(71) Applicant: HERMON-TAYLOR, John [GB/GB]; Division of Diabetes & Nutritional Sciences, Franklin-Wilkins Building, King's College London, 150 Stamford Street, London Greater London SE1 9NH (GB).

(74) Agent: TUXWORTH, Pamela Mary; J A Kemp, 14 South Square, Gray's Inn, London Greater London WC1R 5JJ (GB).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

Published:

- with international search report (Art. 21(3))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))
- with sequence listing part of description (Rule 5.2(a))

(54) Title: DIAGNOSTIC

(57) Abstract: A method of diagnosing or monitoring *Mycobacterium avium* subspecies *paratuberculosis* (MAP) infection, which method comprises detecting the presence of the polypeptide (MAP P900) encoded by the positive strand of IS900, or a fragment thereof, in a sample from a subject, wherein MAP P900, or a fragment thereof, is detected using an antibody, or an antigen-binding fragment thereof, that binds to MAP P900.

