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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
14 January 2016 (14.01.2016)

WIPO | PCT

(10) International Publication Number
WO 2016/005328 A3

(51) International Patent Classification:
C07K 16/18 (2006.01) *C07K 7/08* (2006.01)
C07K 14/47 (2006.01) *A61K 39/00* (2006.01)

(21) International Application Number:
PCT/EP2015/065362

(22) International Filing Date:
6 July 2015 (06.07.2015)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
62/021,308 7 July 2014 (07.07.2014) US

(71) Applicant: **ABBVIE DEUTSCHLAND GMBH & CO. KG** [DE/DE]; Mainzer Straße 81, 65189 Wiesbaden (DE).

(72) Inventors: **BARGHORN, Stefan**; AbbVie Deutschland GmbH & Co. KG, Knollstr. 50, 67061 Ludwigshafen (DE). **HILLEN, Heinz**; AbbVie Deutschland GmbH & Co. KG, Knollstr. 50, 67061 Ludwigshafen (DE). **STRIEBINGER, Andreas**; AbbVie Deutschland GmbH & Co. KG, Knollstr. 50, 67061 Ludwigshafen (DE). **GIAISI, Simone**; AbbVie Deutschland GmbH & Co. KG, Knollstr. 50, 67061 Ludwigshafen (DE).

(74) Agent: **REITSTÖTTER KINZEBACH**; Sternwartstraße 4, 81679 München (DE).

(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, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KN, KP, KR, 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))*

(88) Date of publication of the international search report:
26 May 2016

WO 2016/005328 A3

(54) Title: IMMUNOGENIC PRODUCTS BASED ON MUTEIN AMYLOID ß (Aß) AMINO ACID SEQUENCES AND USES THEREOF

(57) Abstract: The invention relates to immunogenic products based on muteinamyloid β(Aβ) amino acid sequences, in particular to oligomers of Aβ muteins, and to the use of said products in diagnosis, treatment and prevention of conditions such as amyloidoses, and for identifying agents capable of binding to said products.