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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
2 May 2013 (02.05.2013)

WIPO | PCT

(10) International Publication Number
WO 2013/063095 A1

(51) International Patent Classification:
C07K 16/22 (2006.01) *A61P 19/02* (2006.01)
C07K 16/24 (2006.01) *A61P 1/00* (2006.01)
A61K 39/395 (2006.01)

(21) International Application Number:
PCT/US2012/061666

(22) International Filing Date:
24 October 2012 (24.10.2012)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/550,724 24 October 2011 (24.10.2011) US

(71) Applicant: **ABBVIE INC.** [US/US]; 1 North Waukegan Road, North Chicago, IL 60064 (US).

(72) Inventors; and
(71) Applicants : **HSIEH, Chung-Ming** [US/US]; 22 Olde Field Road, Newton, MA 02459 (US). **IVANOV, Alexander** [US/US]; 12468 Main Campus Drive, Lexington, MA 02421 (US). **WAEGELL, Wendy**; 7 Rice Corner, Brookfield, MA 01506 (US).

(74) Agents: **VELEMA, James H.** et al.; Lathrop & Gage LLP, 28 State Street, Suite 0700, Boston, MA 02109-1701 (US).

(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, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, 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, 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, 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, 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))*

WO 2013/063095 A1

(54) Title: IMMUNOBINDERS DIRECTED AGAINST SCLEROSTIN

(57) Abstract: Proteins that bind sclerostin or sclerostin and TNF are described along with there use in composition and methods for treating, preventing, and diagnosing sclerostin related diseases and for detecting sclerostin or sclerostin and TNF in cells, tissues, samples, and compositions.