

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
19 March 2009 (19.03.2009)

PCT

(10) International Publication Number
WO 2009/033580 A1

(51) International Patent Classification:
C12Q 1/42 (2006.01) *G01N 33/542* (2006.01)
C12Q 1/48 (2006.01)

(21) International Application Number:
PCT/EP2008/007122

(22) International Filing Date:
1 September 2008 (01.09.2008)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
07115987.5 10 September 2007 (10.09.2007) EP

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(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, BR, BW, BY, BZ, CA, CH, 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, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, 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, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

— of inventorship (Rule 4.17(iv))

Published:

— with international search report

(54) Title: GENERIC KINASE/PHOSPHATASE ASSAY WITH SINGLE READOUT

(57) Abstract: The present invention relates to a generic method for detecting a kinase or phosphatase activity. The method comprises the following steps: incubating a kinase or phosphatase activity sample with a kinase or phosphatase substrate molecule comprising either a fluorophore having a detectable readout or molecule with an aromatic group which serves as a quencher of the fluorophore, incubating the mixture of step a) with a detection entity comprising either a fluorophore or a molecule with an aromatic group and a binding partner, wherein the substrate molecule and the detection entity are capable of binding to the binding partner and the binding of the substrate molecule and the detection entity to the binding partner lead to an altered readout of the fluorophore, and measuring the readout of the fluorophore in the mixture of step b), wherein an altered readout of the fluorophore compared to a blank is indicative for the presence of a kinase or phosphatase activity in the sample.



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