Title: DETECTION OF BIOPOLYMER INTERACTIONS, CANCER CELLS, AND PATHOGENS USING SPLIT-SUPER-CHARGED GFP

Abstract: Systems and methods for detecting protein-protein interactions and/or detecting a targeted cell using a split supercharged protein reporter system are described.
**INTERNATIONAL SEARCH REPORT**

International application No. PCT/US 13/42078

### A. CLASSIFICATION OF SUBJECT MATTER

**IPC (8)**: C12Q 1/02; G01N 33/53 (2013.01)

**USPC** = 435/29, 7.1, 7.2, 4; 506/7; 530/350

According to International Patent Classification (IPC) or to both national classification and IPC

### B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

**IPC:** C12Q 1/02; G01N 33/53 (2013.01)
**USPC:** 435/29, 7.1, 7.2, 4; 506/7; 530/350

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)


### C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
<thead>
<tr>
<th>Category*</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y</td>
<td>US 2012/0100569 A1 (LIU, DR et al.) April 26, 2012; paragraphs [0010], [0016], [0019], [0027], [0070], [0110], [0115], [0117], [0119], [0134], [0142], [0152], [0231], [0233], [0238], [0267], [0276], [0343], [0366], [0367], [0374], [0448]</td>
<td>1-36</td>
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<td>Y</td>
<td>US 2006/0257887 A1 (WALDO, GS et al.) November 16, 2006; figures 11, 26; paragraphs [0011], [0019], [0039], [0069], [0071], [0074], [0078], [0102], [0128], [0132], [0135], [0165]</td>
<td>1-36</td>
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<td>Y</td>
<td>US 2009/0170069 A1 (GHOSH, I et al.) July 2, 2009; abstract; figure 9; paragraphs [0007], [0028], [0046], [0048], [0050], [0066], [0070], [0076], [0086], [0095], [0134], [0202]</td>
<td>1-36</td>
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  - "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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  - "G" document member of the same patent family

Date of the actual completion of the international search: 26 September 2013 (26.09.2013)

Date of mailing of the international search report: **02 OCT 2013**

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US, Commissioner for Patents
P.O. Box 1430, Alexandria, Virginia 22313-1450
Facsimile No. 571-273-3201

Authorized officer: Shane Thomas

PCT Helpdesk: 571-272-4300
PCT DSP: 571-272-7774

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