The present invention provides novel methods and compositions for the diagnosis, prognosis and treatment of cancer and myeloproliferative disorders. The invention also provides methods of identifying anti-cancer agents.
INTERNATIONAL SEARCH REPORT

INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER
IPC(8) - A61K 31/7105 (2007.10)
USPC - 536/24.5; 514/44

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(8) - A61K 31/7105 (2007.10)
USPC - 536/24.5; 514/44

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
IPC(8) - C07H 21/04 (2007.10)
USPC - 536/24.1

Electronic database consulted during the international search (name of data base and, where practical, search terms used)
PubWest, DialogPRO, Google Patent, Google Scholar, PubMed/Medlin β, WIPO
Search Terms Used: MAFB, transcription factor, microRNA, treatment, diagnosis, megakaryocytic differentiation, siRNA, and combinations thereof.

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>X</td>
<td>WO 2005/078139 A2 (Croce et al.) 25 August 2005 (25.08.2005) Entirely, Esp., Abstract, Table on page 67. Claim 1, Claim 52, Claim 55, Claim 59, para [003], [0046], [0047], [0048], [0062], [0064], [0069], [0070], [0071], [00132], [00140], [00150], [00154], [00168].</td>
<td>1-6, 9-18, 21-23, 35-40, 43-45, 52-56, 61-63</td>
</tr>
<tr>
<td>Y</td>
<td>US 2005/01 12630 A1 (Shaughnessy et al.) 26 May 2005 (26.05.2005). Esp., para [0031], [0079], [0080].</td>
<td>7-8, 19-20, 24-34, 41-42, 46-51, 57-60</td>
</tr>
</tbody>
</table>

D. Further documents are listed in the continuation of Box C.

- Special categories of cited documents

  "A" document defining the general state of the art which is not considered to be of particular relevance.
  "E" earlier application or patent but published on or after the international filing date.
  "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified).
  "O" document referring to an oral disclosure, use, exhibition or other means.
  "P" document published prior to the international filing date but later than the priority date claimed.

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention.

- "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.

- "Y" document of particular relevance, the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

- "&" document member of the same patent family.

Date of the actual completion of the international search


Date of mailing of the international search report

03 MAR 2008

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US, Commissioner for Patents
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Facsimile No. 571-273-3201

Authorized officer

Lee W Young

Form PCT/ISA/2 10 (second sheet) (April 2007)