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Information about the contributions of each person named as having participated in the study

1) **Guarantor(s)**, i.e., person(s) who is (are) responsible for the integrity of the work as a whole:
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2) Authors who participated in the **conception of the study**: Fabiana Perna, Omar Abdel-Wahab and Stephen D. Nimer.

3) **Design & Methods**. The following authors were responsible for specific investigations (please detail):

- Fabiana Perna was responsible for analysis of clinical data and qRT-PCR analysis.
- Omar Abdel-Wahab was responsible for DNA sequencing and analysis.
- Ross Levine was responsible for DNA sequencing and analysis.
- Suresh C. Jhanwar was responsible for cytogenetic analysis.
- Kazunori Imada was responsible for clinical annotation.
- Stephen D Nimer was responsible for clinical annotation and overall design of the study.

4) **Results**. The following authors were responsible for specific portions of the results, including figures and tables (please indicate the person responsible for each figure and each table):

- Fabiana Perna was responsible for Figure 1 and 2.
- Omar Abdel-Wahab was responsible for DNA sequencing data that are not shown as figure but described as text.
- Ross Levine was responsible for for DNA sequencing data that are not shown as figure but described as text.
- Suresh C. Jhanwar was responsible for Figure 1.
- Kazunori Imada was responsible for Figure 2.
- Stephen D Nimer was responsible for Figure 1 and 2.

5) **Writing the manuscript**. The following authors were responsible for writing the manuscript:

- Fabiana Perna, Omar Abdel-Wahab and Stephen D. Nimer were responsible for writing the manuscript.

6) **Contributors Listed in Acknowledgments**: (Examples of those who might be acknowledged include a person who provided purely technical help, writing assistance, or a department chair who provided only general support. Corresponding authors must declare whether they had

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