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

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**2) Authors who participated in the conception of the study:** Francisco de Paula Careta, Marco A. Zago and Dimitar G. Efremov

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

- Daniel Mazza Matos, Roberto P. Falcão and Luca Laurenti were responsible for acquisition of clinical data and management of biological samples

- Rodrigo Alexandre Panepucci was responsible for acquisition, analysis and interpretation of gene expression data

- Fabio Morato de Oliveira and Francisco de Paula Careta were responsible for the FISH and qRT-PCR analysis

- Francisco de Paula Careta, Daniel Mazza Matos, Engin Bojnik and Stefania Gobessi were responsible for cell culture, flow cytometry and immunoblotting analysis

- Francisco de Paula Careta was responsible for the mouse model studies

- Francisco de Paula Careta, Marco A. Zago and Dimitar G. Efremov were responsible for drafting the article or revising in critically

**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):

- Rodrigo Alexandre Panepucci was responsible for Figure 1 and Supplementary Tables 1 and 2

- Francisco de Paula Careta and Fabio Morato de Oliveira were responsible for Figure 2

- Francisco de Paula Careta, Engin Bojnik and Stefania Gobessi were responsible for Figure 3, Figure 4 and Supplementary Figure 1

- Francisco de Paula Careta was responsible for Figure 5
- Luca Laurenti and Francisco de Paula Careta were responsible for Supplementary Table 3

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

- Francisco de Paula Careta, Marco A. Zago and Dimitar G. Efremov were responsible for writing the manuscript and final approval of the version to be published.

**6) Contributors Listed in Acknowledgments:**

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