

**Supplementary data- Table S1:** Protein identified by MALDI-TOF analysis in wild-type and  $\beta$  thalassemic mouse red cells analysed by mono-dimensional electrophoresis and reported in Fig. 1a

<b>Band #</b>	<b>Accession No</b>	<b>Protein Description</b>	<b>matching peptides</b>	<b>Coverage (%)</b>
1	Q61171	Peroxiredoxin-2	4	26
2	P01942	Hemoglobin subunit alpha	5	34
3	Q61171	Peroxiredoxin-2	4	27

Accession No: accession number