corrigendum

Necessary and sufficient factors for the import of transfer RNA into the kinetoplast mitochondrion

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EMBO reports (2009) 10, 101. doi:10.1038/embor.2008.241 [original correction]

Dr Adhya, the corresponding author of the above research report, has supplied a further correction to Fig 4B. In the first correction (doi:10.1038/embor.2008.241), the new legend was incomplete, the annotation was erroneous and the control gel supporting the tentative identification of the translation products was not included (now included as part (ii)). The corrected figure is shown below. The corrected legend, which replaces the version printed as an earlier corrigendum, is also shown below.

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Fig 4B | (i) Total or mitochondrial proteins in uninduced or knockdown lines, [35 S]methionine labelled in the absence or presence of cycloheximide, resolved by SDS–polyacrylamide gel electrophoresis and fluorographed. Panels denoted as ‘Total’ show total cellular protein synthesis (labelled in the absence of cycloheximide); panels denoted as ‘Mitochondrial’ show translation products labelled in the presence of cycloheximide. Different denaturing gels (15–20% acrylamide exponential gradient in all panels; Mahata B *et al*, *J Biol Chem* **280**: 5141–5144 (2005); Chomyn A, *Meth Enzymol* **264**: 197–211 (1996)) were run for each panel; because of the aberrant migration of mitochondrial-DNA-encoded polypeptides, there was variation in the mobility of individual bands (numbered 1–13 in each panel) according to the exact electrophoresis conditions. The identity of some of the bands in the ‘Mitochondrial’ lanes was tentatively assigned, based on co-migration on the same gel with known mitochondrial-DNA-encoded subunits of specific mitochondrial protein complexes, as shown in part (ii). For this experiment, mitochondrial protein complexes (RIC, complexes III, IV and V as shown) were isolated by preparative blue-native gel electrophoresis from cells labelled with [35 S]-methionine in the presence of 100 μ g/ml cycloheximide. For example, bands 1, 12 and 7 were respectively assigned as COI, COII and COIII, as complex IV contains these subunits. The full set of proposed assignments is indicated in the box to the right of part ii. CO, cytochrome oxidase; MURF, maxicircle unidentified reading frame; ND, NADH dehydrogenase subunit; RIC, RNA import complex; Tet, tetracycline; Δn , knockdown strain deleted for a specific RIC subunit RICn.