**S3 Table. Dilution ratios of primary and secondary antibodies used for IEM**

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| Figure | Strain | Primary antibody dilution\* | Secondary antibody dilution\* |
| Fig 1 | GFP-spNup131 GFP-spNup131 spMis6-GFPspNup131-GFPspNup132-GFP | 1:400 | 1:400 |
| GFP-spNup132 | 1:400 | 1:100 |
| Fig 2B | spFar8-GFP | 1:400 | 1:400 |
| Fig 3A | spNup211-GFP | 1:400 | 1:400 |
| Fig 4A | spNup120-GFP spMis6-GFPspNup85-GFP spMis6-GFPspNup37-GFP spMis6-GFP | 1:400 | 1:200 |
| spNup96-GFP spMis6-GFPspEly5-GFP spMis6-GFPspSeh1-GFP spMis6-GFP | 1:1000 | 1:800 |
| spNup107-GFPGFP-spNup107 | 1:400 | 1:400 |
| Fig 5B | spNup96-spNup107-GFP spMis6-GFP | 1:400 | 1:400 |
| Fig 5C | GFP-spNup132 | 1:400 | 1:400 |
| Fig 6C | GFP-spNup131FLGFP-spNup131CGFP-spNup132FL | 1:400 | 1:400 |
| GFP-spNup132C | 1:400 | 1:1000 |
| Fig 7A | GFP-spNup97 | 1:400 | 1:200 |
| GFP-spNup184 | 1:400 | 1:800 |
| GFP-spNpp106GFPspNup186GFP-spNup40spNup155-GFP | 1:400 | 1:400 |
| Fig 7B | spNup44-GFPspNup45-GFPspNup98-GFPGFP-spNsp1 | 1:400 | 1:400 |
| Fig 7C | spNup82-GFPspNup146-GFPspAmo1-GFP  | 1:400 | 1:400 |
| Fig 7D | spCut11-GFP | 1:400 | 1:200 |
| spPom152-GFPspPom34-GFP | 1:400 | 1:400 |
| Fig 7E | spNup60-GFPspNup61-GFP | 1:400 | 1:200 |
| GFP-spNup124spAlm1-GFP | 1:400 | 1:400 |

\*A rabbit polyclonal anti-GFP antibody (600-401-215, Rockland Immunochemicals, Limerick, PA, USA) was used as a primary antibody; a goat anti-rabbit Alexa 594 FluoroNanogold Fab’ fragment (7304, Nanoprobes Inc., Yaphank, NY, USA) was used as a secondary antibody.