Table S1. The primer pairs

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|  | Forward primer | Reverse primer |
| *BamA* | GAACGCATAATACATATGGCGATGA | CTTTGTGGAGAAGGATCCCCAGGTT |
| *GST-BamA* | TACGCTGGATCCGCGATGAAAAAGT | CTCGATGAATTCCCAGGTTTTACCG |
| *His-BamA* | AAGGAGATATACATATGGCGATGAA | GCTCGAATTCGGATCCCGCCAGGTTTT |
| *BamD* | GAAAGTCAAAACCATATGACGCGCA | TGTTTCAGGTTTGGATCCTGTATTG |
| *His-BamD* | AAGGAGATATACATATGACGCGCAT | GCTCGAATTCGGATCCCGTGTATTGCT |

Table S2. The buffer used for protein purification

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|  | **GST-BamA** | **His-BamA** | **His-BamD** |
| **Lysis buffer** | 2 M Urea, 50 mM Tris, 300 mM NaCl, 0.2 mM PMSF,0.1% Triton X-100, 0.5 mM EDTA, 1 mM DTT, pH 8.0 | 8 M Urea, 50 mM Tris, 300 mM NaCl, 0.1% TritonX-100, pH 8.0 | 50 mM Tris, 300 mM NaCl, 0.2 mM PMSF, 0.1% TritonX-100, pH 8.0 |
| **Binding buffer** | 50 mM Tris, 300 mM NaCl, pH 8.0 | 8 M Urea, 50 mM Tris, 300 mM NaCl, pH 8.0 | 50 mM Tris, 300 mM NaCl, pH 8.0 |
| **Washing buffer** | / | 8 M Urea, 50 mM Tris, 300 mM NaCl, 20/50 mM Imidazole, pH 8.0 | 50 mM Tris, 300 mM NaCl, 20/50 mM Imidazole, pH 8.0 |
| **Elution buffer** | 50 mM Tris, 300 mM NaCl, 20 mM GSH,  pH 8.0 | 8 M Urea, 50 mM Tris, 300 mM NaCl, 500 mM Imidazole, pH 8.0 | 50 mM Tris, 300 mM NaCl, 500 mM Imidazole, pH 8.0 |