**Supplementary Table 1. Primers used in this study**

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| plasmid | primers (5’-3’) |
| EHEP-20-28M | Forward: GGGAATTCCATATGGCCGTTAACCTGTGCACCCReversed: CCGCTCGAGTTATTTGCCGACCAGGACGTTTCC |
| GH1D2-pET-32a | Forward: CTGTATTTTCAGGGCGATAAATTTCCGGCCAATTTTACCTTTReversed: GAGCTCGAATTCGGATCCTTAATCGGTCAGACCATTATTGGCAATC |