**Table S3 Gene-specific primers used in over-expression plasmid construction**

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| Gene name | Primer name | Sequence(5’-3’) | Product size (bp) |
| BdHsp16.9-CI | Hsp16.9-CI-p1300-F(BamHI) | 5’- GGggtaccATGTCGCTGATTCGCCGTGG-3’ | 456 |
| Hsp16.9-CI-p1300-R(KpnI) | 5’- CGggatccGCCGGTGATCTGAACTGGCTT-3’ |
| BdHsp17.2A-CI | Hsp17.2A-CI-p1300-F(BamHI) | 5’- GGggtaccATGTCGCTGGTGAGGAGGAG-3’ | 465 |
| Hsp17.2A-CI -p1300-R(KpnI ) | 5’- CGggatccACCGGAGATCTCGATGGCCT-3’ |
| BdHsp17.2B-CI | Hsp17.2B-CI-p1300-F(BamHI) | 5’- GGggtaccATGTCGCTGGTGAGGCGCG-3’ | 462 |
| Hsp17.2B-CI -p1300-R(KpnI ) | 5’- CGggatccACCAGAGATCTCGATGGCCTT-3’ |
| BdHsp18-CII | Hsp18-CII-p1300-F(BamHI) | 5’- GGggtaccATGGAGGGCAGGATGTTCGG-3’ | 498 |
| Hsp18-CII-p1300-R(KpnI ) | 5’- CGggatccCGCGACCTGGACGTTGATGG-3’ |
| BdHsp16.4-CI | Hsp16.4-CI-p1300-F(BamHI) | 5’- GGggtacc ATGTCGCTCGTGAGGCGCAG-3’ | 444 |
| Hsp16.4-CI-p1300-R(KpnI ) | 5’- CGggatcc GCCAGAGATCTCGATGGCCT-3’ |