**Supplementary Table 1.** Oligonucleotides used in this study to generate mutant forms of *Tb*PIP39

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| --- | --- |
| Oligonucleotid name | Sequence |
| Primer1PIP39 D57A | 5'-acttgtgctggacatcgccgagacacttattcaca-3' |
| Primer2PIP39 D57A antisense | 5'-tgtgaataagtgtctcggcgatgtccagcacaagt-3' |
| Primer3 PIP39 t63A v64A  | 5’- acgagacacttattcacgcagcgggcatgcgcaacg -3' |
| Primer4 PIP39 t63A v64A antisense  | 5’- cgttgcgcatgcccgctgcgtgaataagtgtctcgt -3' |
| Primer5PIP39synthBamHI Fwd pGEX | 5’-cgttgcgcatgcccgctgcgtgaataagtgtctcgt -3' |
| Primer6PIP39synthXhoI Rev pGEX | 5’-atactcgagctaaagacgacttggtgtgtgac -3' |