**S3 Table. Cloning primers used to generate over-expressing and knockout lines of *L. donovani* and recombinant expression in *E.coli***

Upper case letters refer to nucleotides corresponding to gene sequences in *L. donovani*; lower case refers to additional sequences used in generating constructs. Restriction endonuclease sites are underlined.

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| --- | --- | --- |
| **Construct** | **Primers** | **Sequence** |
| **Ld*NTR2*OE** | Ld*NTR2*-BamHI\_s | 5'-agatctATGTCCGCCGCTTCCAAGTCGATCGA-3' |
|  | Ld*NTR2*-BamHI\_as | 5'-agatctCTACATGAATGGGTAGTCGTTGTAGC-3' |
|  | Ld*NTR2*- SmaI \_s | 5'-cccgggATGTCCGCCGCTTCCAAGTCGATCGA-3' |
|  | Ld*NTR2*- XbaI \_as | 5'-tctagaCATGAATGGGTAGTCGTTGTAGCCT-3' |
| **Ld*NTR2* DKO** | 5'UTR-NotI \_s | 5´ataagaatgcggccgcTGTGCGCTGTTCTCGGGGACGTGA-3' |
|  | 5´UTR-HindIII/PmeI\_as | 5´gtttaaacttacggaccgtcaagcttGGTGAGCGCTTTCCTCTTGCGAAT-3' |
|  | 3´UTR-PmeI/BamHI\_s | 5´gacggtccgtaagtttaaacggatccCGCTCTCCTTGCCTGCCCGCGCC-3' |
|  | 3´UTR-NotI\_as | 5´ataagtaagcggccgcCGATGCTGCCGAGATAGGACAACA-3' |
| **Ld*NTR2* recombinant** | Ld*NTR2*-NdeI\_s | 5'-catATGTCCGCCGCTTCCAAGTCGATC-3' |
|  | Ld*NTR2*-BamHI\_as | 5'-ggatccCTACATGAATGGGTAGTCGTTGTA-3' |