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| --- | --- | --- |
| Name of Primer | **Application** | **Sequence** |
| GA-PpoI-LVXpur-fr-F   | cloning | ACTTCCTACCCTCGTAAAGaagcttggtaccgagctcg |
| GA-PpoI-LVXpur-fr-R   | cloning | GCAGGGGAGGTGGTCTGGATCCccatagagcccaccgcat |
| GA-V-LVXpuro-F | cloning | GTTCTTCTGAACGCGTCTGGAACAATCA |
| GA-V-LVXpuro-R | cloning | GTTCAATCATGGTCGCGTTTTGCAAAAG |
| GA-F-neo-R  | cloning | CCAGACGCGTTCAGAAGAACTCGTCAAGAAGGCGATAGAAG |
| GA-F-neo-F | cloning | AAACGCGACCATGATTGAACAAGATGGATTGCAC |
| LIG4\_F | qPCR | GAAGGCATCTGGTAAGCTCG |
| LIG4\_R | qPCR | AGCTTCCTTAGCACTCACACA |
| GAPDH fw | qPCR | GTCGGAGTCAACGGATTTGG |
| GAPDH rev | qPCR | AAAAGCAGCCCTGGTGACC |

**Supplementary File 4**