Table S3. **Oligonucleotides used in this study**

|  |  |  |
| --- | --- | --- |
| **Oligonucleotide** | **Description** | **Sequence (5′→3′)** |
| RTA3P1 | Forward primer for  amplifying 5′  *RTA3*NCR bearing  Kpn1 site | 5' -GGGGTACCTGAAATGACTTCATAATGCTCAT- 3' |
| RTA3P2 | Reverse primer for  amplifying 5′  *RTA3*NCR bearing  Xho1 site | 5' -CCGCTCGAGGAGCCTGTCTTTTTTTCAATATT- 3' |
| RTA3P3 | Forward primer for  amplifying 3′  *RTA3*NCR bearing  Not1 site | 5' -ATTTGCGGCCGCATTTGAATGTTAACTAAGG- 3' |
| RTA3P4 | Reverse primer for  amplifying 3′  *RTA3*NCR bearing  SacII site | 5' -TCCCCGCGGGAAGGGTGGGAATGAACTG- 3' |
| RTA3P5 | Forward primer for  amplifying 3′  *RTA3*ORF bearing  Not1 site | 5' -ATTTGCGGCCGCAGTGTTTTCCATGTCGGTG- 3' |
| RTA3P6 | Reverse primer for  amplifying 3′  *RTA3*ORF bearing  SacII site | 5' -TCCCCGCGGTTTCTTCATAACTTTTGTC- 3' |
| RTA3P7 | Reverse primer for  amplifying 5′  RTA3NCR+RTA3ORF  bearing Xho1 site | 5’-CTCGAGTCATTCCTTAT TCTCTTG-3’ |
| RTA3 mycF nostop | To amplify 65 bp *RTA3* ORF myc tag region | 5’-GAATCGACGTTGCAAGGTCAAAATATTGTTAGGGGTG  ATCCTATTCAAGAGAATAAGGAACGGATCCCCGGGTTAATTAACGG-3' |
| RTA3 mycR UTR | To amplify 65 bp *RTA3* UTR myc tag region | 5'-ATAGCCACCTTTTTCACTTGCATTTAAGTTGCTAGGA  ATCATACCACCCCTTAGTTAACATTCAAATGGCGGCCGCTCTAGAACTAGTGGATC-3' |
| DET RTA3F | To detect *RTA3*myc construct integration | 5'-TGTTTTTATTATGTTGGCTTGTC-3' |
| DET RTA3 R | To detect *RTA3* myc construct integration | 5'-CGAAGATCTCTACAATAAGCC-3' |
| AHO300 | To detect *RTA3* myc construct integration | 5'-CCGTTAATTAACCCGGGGATC-3' |
| AHO301 | To detect *RTA3* myc construct integration | 5'-GGAACTTCAGATCCACTAGTTCTAGAGC-3' |
| AHO302 | To detect *RTA3* myc construct integration | 5'-TCACTAGTGAATTCGCGCTCGAG-3' |
| AHO283 | To detect *RTA3*myc construct  integration/amplicon sequencing | 5'- GGCGGCCGCTCTAGAACTAGTGGATC-3' |
| rta3myc(150bp upstream of stop codon) | To detect *RTA3*myc construct  integration/amplicon sequencing | 5'-TCCACAAGTTGTAATGGGATCA-3' |
| BCR1-F-OE-Ag-NAT-Ag-TEF1p | Forward primer for *BCR1*OE | 5’-AGGGTCATACTTGAATTATATTATATTAAACCAAAAC  ACACACACAGTAATAAGTTTTCTCCAGTGACAACTTTTCACTTTACTCCCCTCCTTTAATTTATCAAGCTTGCCTCGTCCCC- 3' |
| BCR1-R-OE-Ag-NAT-Ag-TDH3p | Reverse primer for *BCR1*OE | 5'-GTGGTGGTGGATACATCATTGGTTGTCTTTGATTATA  AGCCATAGATGCGTGCTGTGATTGATGGGAATCGTTTTGAAGTACTTGTGATGTCCCTGACATATTTGAATTCAATTGTGATG-3' |
| RTA3-F-OE-Ag-NAT-Ag-TEF1p | Forward primer for *RTA3OE* | 5'-ATAAGTTATTCCTAATCTGCTAAAAAA AAGAAACAT  GGTTACTCTTAGAATAGTTATAGATCCACACGGAACTCGGAAATTATGCACTGAATGTAAATCAAGCTTGCCTCGTCCCC-3' |
| RTA3-R-OE-Ag-NAT-Ag-TDH3p | Reverse primer for *RTA3OE* | 5'-AAGCTGGGGCATAAGTTGCAGCAATGGTGGATAGAG  TTGTTGAAGTTGCAGTTGAGGTAGGAGTCCTTCTGTAATTACCGCAAGATCCATAGTATTCATATTTGAATTCAATTG TGATG-3' |
| Nat-OE-R-det2-CJN | Detection primer for OE | 5’- GAAACAACAACGAAACCAGC -3’ |
| BCR1-OE-F-det | Detection primer for OE | 5’- CAGTAATAAGTTTTCTCCAGTGAC -3' |
| RTA3-OE-F-det | Detection primer for OE | 5’-CATGGTTACTCTTAGAATAGTTAT -3' |