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

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| **Oligonucleotide** | **Description** | **Sequence (5′→3′)** |
| RTA3P1 | Forward primer foramplifying 5′*RTA3*NCR bearingKpn1 site | 5' -GGGGTACCTGAAATGACTTCATAATGCTCAT- 3' |
| RTA3P2 | Reverse primer foramplifying 5′*RTA3*NCR bearingXho1 site | 5' -CCGCTCGAGGAGCCTGTCTTTTTTTCAATATT- 3' |
| RTA3P3 | Forward primer foramplifying 3′*RTA3*NCR bearingNot1 site | 5' -ATTTGCGGCCGCATTTGAATGTTAACTAAGG- 3' |
| RTA3P4 | Reverse primer foramplifying 3′*RTA3*NCR bearingSacII site | 5' -TCCCCGCGGGAAGGGTGGGAATGAACTG- 3' |
| RTA3P5 | Forward primer foramplifying 3′*RTA3*ORF bearingNot1 site | 5' -ATTTGCGGCCGCAGTGTTTTCCATGTCGGTG- 3' |
| RTA3P6 | Reverse primer foramplifying 3′*RTA3*ORF bearingSacII site | 5' -TCCCCGCGGTTTCTTCATAACTTTTGTC- 3' |
| RTA3P7 |  Reverse primer foramplifying 5′RTA3NCR+RTA3ORFbearing Xho1 site | 5’-CTCGAGTCATTCCTTAT TCTCTTG-3’ |
| RTA3 mycF nostop | To amplify 65 bp *RTA3* ORF myc tag region | 5’-GAATCGACGTTGCAAGGTCAAAATATTGTTAGGGGTGATCCTATTCAAGAGAATAAGGAACGGATCCCCGGGTTAATTAACGG-3' |
| RTA3 mycR UTR | To amplify 65 bp *RTA3* UTR myc tag region | 5'-ATAGCCACCTTTTTCACTTGCATTTAAGTTGCTAGGAATCATACCACCCCTTAGTTAACATTCAAATGGCGGCCGCTCTAGAACTAGTGGATC-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’-AGGGTCATACTTGAATTATATTATATTAAACCAAAACACACACACAGTAATAAGTTTTCTCCAGTGACAACTTTTCACTTTACTCCCCTCCTTTAATTTATCAAGCTTGCCTCGTCCCC- 3' |
| BCR1-R-OE-Ag-NAT-Ag-TDH3p | Reverse primer for *BCR1*OE  | 5'-GTGGTGGTGGATACATCATTGGTTGTCTTTGATTATAAGCCATAGATGCGTGCTGTGATTGATGGGAATCGTTTTGAAGTACTTGTGATGTCCCTGACATATTTGAATTCAATTGTGATG-3' |
| RTA3-F-OE-Ag-NAT-Ag-TEF1p | Forward primer for *RTA3OE* | 5'-ATAAGTTATTCCTAATCTGCTAAAAAA AAGAAACATGGTTACTCTTAGAATAGTTATAGATCCACACGGAACTCGGAAATTATGCACTGAATGTAAATCAAGCTTGCCTCGTCCCC-3' |
| RTA3-R-OE-Ag-NAT-Ag-TDH3p | Reverse primer for *RTA3OE*  | 5'-AAGCTGGGGCATAAGTTGCAGCAATGGTGGATAGAGTTGTTGAAGTTGCAGTTGAGGTAGGAGTCCTTCTGTAATTACCGCAAGATCCATAGTATTCATATTTGAATTCAATTG 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' |