

Additional file 3: Nucleotide sequence of CRISPs showing insertions and deletions of nucleotides.▼, insertion; *, deletion and □, stop codon.

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|-----------|--|-----|
| Oxyuranus | ATGATTGCCTTCATTGTCTTGCTAAGCTTGTGTCAGTGTGCAACAGCTTCTTGGAACTGTTGATTTTGCTTCTGAGTCAAGTAACAAAAAAGAT | 96 |
| 521 | ATGATTGCCTTCATTGTCTTGCTAAGCTTGTGTCAGTGTGCAACAGCTTCTTGGAACTGTTGATTTTGCTTCTGAGTCAAGTAACAAAAAAGAT | 96 |
| 218 | ATGATTGCCTTCATTGTCTTGCTAAGCTTGTGTCAGTGTGCAACAGCTTCTTGGAACTGTTGATTTTGCTTCTGAGTCAAGTAACAAAAAAGAT | 96 |
| 492 | ATGATTGCCTTCATTGTCTTGCTAAGCTTGTGTCAGTGTGCAACAGCTTCTTGGAACTGTTGATTTTGCTTCTGAGTCAAGTAACAAAAAAGAT | 96 |
| 399 | ATGATTGCCTTCATTGTCTTGCTAAGCTTGTGTCAGTGTGCAACAGCTTCTTGGAACTGTTGATTTTGCTTCTGAGTCAAGTAACAAAAAAGAT | 96 |
| 217 | ATGATTGCCTTCATTGTCTTGCTAAGCTTGTGTCAGTGTGCAACAGCTTCTTGGAACTGTTGATTTTGCTTCTGAGTCAAGTAACAAAAAAGAT | 96 |
| 363 | ATGATTGCCTTCATTGTCTTGCTAAGCTTGTGTCAGTGTGCAACAGCTTCTTGGAACTGTTGATTTTGCTTCTGAGTCAAGTAACAAAAAAGAT | 96 |
| | | |
| Oxyuranus | TACCGAAAGGAGATTGTTGACAAGCACAATGATTTAAGGAGATCAGTGAAACCAACTGTAGGAACATGTTACAAATGAAATGGAATTCCTGCTGCT | 192 |
| 521 | TACCGAAAGGAGATTGTTGACAAGCACAATGCTTTAAGGAGATCAGTGAAACCAACTGTAGGAACATGTTACAAATGGAATGGAATTCCTGCTGCT | 192 |
| 218 | TACCGAAAGGAGATTGTTGACAAGCACAATGCTTTAAGGAGATCAGTGAAACCAACTGTAGGAACATGTTACAAATGGAATGGAATTCCTGCTGCT | 192 |
| 492 | TACCGAAAGGAGATTGTTGACAAGCACAATGCTTTAAGGAGATCAGTGAAACCAACTGTAGGAACATGTTACAAATGGAATGGAATTCCTGCTGCT | 192 |
| 399 | TACCGAAAGGAGATTGTTGACAAGCACAATGCTTTAAGGAGATCAGTGAAACCAACTGTAGGAACATGTTACAAATGGAATGGAATTCCTGCTGCT | 192 |
| 217 | TACCGAAAGGAGATTGTTGACAAGCACAATGCTTTAAGGAGATCAGTGAAACCAACTGTAGGAACATGTTACAAATGGAATGGAATTCCTGCTGCT | 192 |
| 363 | TACCGAAAGGAGATTGTTGACAAGCACAATGCTTTAAGGAGATCAGTGAAACCAACTGTAGGAACATGTTACAAATGGAATGGAATTCCTGCTGCT | 192 |
| | | |
| Oxyuranus | GCTCAAAATGCAAAACGTTGGGCAGATAGATGTACTTTTGTCTCACAGTCCACCACATACAAGAAGTGTGGGAAAACCTCCGTTGTGGTGAAAAATATA | 288 |
| 521 | GCTCAAAATGCAAAACGTTGGGCAGATAGATGTACTTTTGTCTCACAGTCCACCACATACAAGAAGTGTGGGAAAACCTCCGTTGTGGTGAAAAATATA | 288 |
| 218 | GCTCAAAATGCAAAACGTTGGGCAGATAGATGTACTTTTGTCTCACAGTCCACCACATACAAGAAGTGTGGGAAAACCTCCGTTGTGGTGAAAAATATA | 288 |
| 492 | GCTCAAAATGCAAAACGTTGGGCAGATAGATGTACTTTTGTCTCACAGTCCACCACATACAAGAAGTGTGGGAAAACCTCCGTTGTGGTGAAAAATATA | 288 |
| 399 | GCTCAAAATGCAAAACGTTGGGCAGATAGATGTACTTTTGTCTCACAGTCCACCACATACAAGAAGTGTGGGAAAACCTCCGTTGTGGTGAAAAATATA | 288 |
| 217 | GCTCAAAATGCAAAACGTTGGGCAGATAGATGTACTTTTGTCTCACAGTCCACCACATACAAGAAGTGTGGGAAAACCTCCGTTGTGGTGAAAAATATA | 288 |
| 363 | GCTCAAAATGCAAAACGTTGGGCAGATAGATGTACTTTTGTCTCACAGTCCACCACATACAAGAAGTGTGGGAAAACCTCCGTTGTGGTGAAAAATATA | 288 |
| | | |
| Oxyuranus | TTCATGTCAACTCAACCTTTTGCATGGAGTGGCGTAGTTCAGGCTTGGTATGA.▼TGAAAGTC. AAAAAAATTCGCTATGGCATTGGAGCAAAGCCAC | 382 |
| 521 | TTCATGTCAACTCAACCTTTTGCATGGAGTGGCGTAGTTCAGGCTTGGTATGA.▼TGAAAGTC. AAAAAAATTCGCTATGGCATTGGAGCAAAGCCAC | 382 |
| 218 | TTCATGTCAACTCAACCTTTTGCATGGAGTGGCGTAGTTCAGGCTTGGTATGA.▼TGAAAGTC. AAAAAAATTCGCTATGGCATTGGAGCAAAGCCAC | 382 |
| 492 | TTCATGTCAACTCAACCTTTTGCATGGAGTGGCGTAGTTCAGGCTTGGTATGA.▼TGAAAGTC. AAAAAAATTCGCTATGGCATTGGAGCAAAGCCAC | 382 |
| 399 | TTCATGTCAACTCAACCTTTTGCATGGAGTGGCGTAGTTCAGGCTTGGTATGA.▼TGAAAGTC. AAAAAAATTCGCTATGGCATTGGAGCAAAGCCAC | 383 |
| 217 | TTCATGTCAACTCAACCTTTTGCATGGAGTGGCGTAGTTCAGGCTTGGTATGA.▼TGAAAGTC. AAAAAAATTCGCTATGGCATTGGAGCAAAGCCAC | 383 |
| 363 | TTCATGTCAACTCAACCTTTTGCATGGAGTGGCGTAGTTCAGGCTTGGTATGA.▼TGAAAGTC. AAAAAAATTCGCTATGGCATTGGAGCAAAGCCAC | 384 |
| | | |
| Oxyuranus | CAAGTCTGTATTGGCCATTATACCCAGGTAGTTTGGTACAAAAGTACCTTCTTGGTTGTGCTTCTGCCAAATGTTCTTCAACCAAAATACCTCT | 478 |
| 521 | CAGGTTCTGTATTGGCCATTATACCCAGGTAGTTTGGTACAAAAGTACCTTCTTGGTTGTGCTTCTGCCAAATGTTCTTCAACCAAAATACCTCT | 478 |
| 218 | CAGGTTCTGTATTGGCCATTATACCCAGGTAGTTTGGTACAAAAGTACCTTCTTGGTTGTGCTTCTGCCAAATGTTCTTCAACCAAAATACCTCT | 478 |
| 492 | CAGGTTCTGTATTGGCCATTATACCCAGGTAGTTTGGTACAAAAGTACCTTCTTGGTTGTGCTTCTGCCAAATGTTCTTCAACCAAAATACCTCT | 478 |
| 399 | CAGGTTCTGTATTGGCCATTATACCCAGGTAGTTTGGTACAAAAGTACCTTCTTGGTTGTGCTTCTGCCAAATGTTCTTCAACCAAAATACCTCT | 479 |
| 217 | CAGGTTCTGTATTGGCCATTATACCCAGGTAGTTTGGTACAAAAGTACCTTCTTGGTTGTGCTTCTGCCAAATGTTCTTCAACCAAAATACCTCT | 479 |
| 363 | CAGGTTCTGTATTGGCCATTATACCCAGGTAGTTTGGTACAAAAGTACCTTCTTGGTTGTGCTTCTGCCAAATGTTCTTCAACCAAAATACCTCT | 480 |
| | | |
| Oxyuranus | ACG. TTTGTCAATACTGCCAGCAGGGAACATCAGAGGTTCAATTGCTACTCCATATAAATCAGGGCCACCTTTGTTGGGGACTGTCCTTCGGCTTGT | 573 |
| 521 | ACG. TTTGTCAATACTGCCAGCAGGGAACATCAGAGGTTCAATTGCTACTCCATATAAATCAGGGCCCGC. .TGGTGGGACTGTCCTTCGGGTGG. | 569 |
| 218 | ACG. TTTGTCAATACTGCCAGCAGGGAACATCAGAGGTTCAATTGCTACTCCATATAAATCAGGGCCAGCTTTGTTGGGGACTGTCCTTCGGCTTGT | 573 |
| 492 | ACG. TTTGTCAATACTGCCAGCAGGGAACATCAGAGGTTCAATTGCTACTCCATATAAATCAGGGCCAGCTTTGTTGGGGACTGTCCTTCGGGTGG | 573 |
| 399 | ACCTTTTGTCAATACTGCCAGCAGGGAACATCAGAGGTTCAATTGCTACTCCATATAAATCAGGGCCAGCTTTGTTGGGGACTGTCCTTCGGGTGG | 575 |
| 217 | ACG. TTTGTCAATACTGCCAGCAGGGAACATCAGAGGTTCAATTGCTACTCCATATAAATCAGGGCCAGCTTTGTTGGGGACTGTCCTTCGGGTGG | 574 |
| 363 | ACG. TTTGTCAATACTGCCAGCAGGGAACATCAGAGGTTCAATTGCTACTCCATATAAATCAGGGCCAGCTGTTGGGGACTGTCCTTCGGG. TGT | 574 |
| | | |
| Oxyuranus | GACAAACGGACTATGCACAAATCCTTGCACAAATAACAGTAGTCTTACGAACTGCAAACTTTAGCGAAAAAAGTAAATGCCAGACTGAATGGATC | 669 |
| 521 | GTC. ACGGACTATGCCCAA. T. CTTGCAAA. A TGAAGTGCCTTCCC. AACTGCAAGGCTTTACCGAAAAAAGTAAATGCAAGACTGAATGGATC | 660 |
| 218 | GTC. ACGGACTATGCACAAATCCTTGCACAAATATGAAGATGCCTTACGAACTGCAAACTTTGGCGAAAAA. (TAA)ATGCAAGACTGAATGGATC | 667 |
| 492 | GTC. ACGGACTATGCACAAATCCTTGCACAAATATGAAGATGCCTTCCC. AACTGCAAGGCTTTACCGAAAAAAGTAAATGCAAGACTGAATGGATC | 667 |
| 399 | GTCACCGGACTATGCACAAATCCTTGCACAAATATGAAGATGCCTTACGAACTGCAAACTTTAGCGAAAAAAGTAAATGCAAGACTGAATGGATC | 671 |
| 217 | GTCACCGGACTATGCACAAATCCTTGCACAAATATGAAGATGCCTTACGAACTGCAAACTTTAGCGAAAAAAGTAAATGCAAGACTGAATGGATC | 670 |
| 363 | GTC. ACGGACTATGCCCAAATCCTTGC. AATATG. AGATGCCTTCC. CGAACTGCAAACTTTAGCGAAAAAAGTAAATGCAAGACTGAATGGATC | 666 |
| | | |
| Oxyuranus | AAGTCAAAATGCTCTGCTACTTGTCTTCTGCCACACTGAATAATAATAG. | 717 |
| 521 | AAGTCAAAATGCCCTGCTACTTGTCTTCTGCCACAATAAAATAATATAG. | 708 |
| 218 | AAGTCAAAATGCCCTGCTACTTGTCTTCTGCCACAATAAAATAATATAG. | 715 |
| 492 | AAGTCAAAATGCCCTGCTACTTGTCTTCTGCCACAATAAAATAATATAG. | 715 |
| 399 | AAGTCAAAATGCCCTGCTACTTGTCTTCTGCCACAATAAAATAATATAG. | 719 |
| 217 | AAGTCAAAATGCCCTGCTACTTGTCTTCTGCCACAATAAAATAATATAG. | 718 |
| 363 | AAGTCAAAATGCCCTGCTACTTGTCTTCTGCCACAATAAAATAATATAG. | 714 |