

## Formatted Alignments

NS 246038 MiSeq	1	ATGGATTCCAACACTGTGTCAAGCTTTCAGGTAGACTGCTTTCTTTGGCATGTCCGCAAA	60
NS 246038 Method A	1	ATGGATTCCAACACTGTGTCAAGCTTTCAGGTAGACTGCTTTCTTTGGCATGTCCGCAAA	60
NS 246038 Method S	1	ATGGATTCCAACACTGTGTCAAGCTTTCAGGTAGACTGCTTTCTTTGGCATGTCCGCAAA	60
NS 246038 Method E	1	ATGGATTCCAACACTGTGTCAAGCTTTCAGGTAGACTGCTTTCTTTGGCATGTCCGCAAA	60
NS 246038 Method K	1	ATGGATTCCAACACTGTGTCAAGCTTTCAGGTAGACTGCTTTCTTTGGCATGTCCGCAAA	60
NS 246038 Method N	1	ATGGATTCCAACACTGTGTCAAGCTTTCAGGTAGACTGCTTTCTTTGGCATGTCCGCAAA	60

NS 246038 MiSeq	61	CGATTTGCAGACCAAGAAGCTGGGTGATGCCCCATTCCTTGACCGGCTTCGCCGAGATCAG	120
NS 246038 Method A	61	CGATTTGCAGACCAAGAAGCTGGGTGATGCCCCATTCCTTGACCGGCTTCGCCGAGATCAG	120
NS 246038 Method S	61	CGATTTGCAGACCAAGAAGCTGGGTGATGCCCCATTCCTTGACCGGCTTCGCCGAGATCAG	120
NS 246038 Method E	61	CGATTTGCAGACCAAGAAGCTGGGTGATGCCCCATTCCTTGACCGGCTTCGCCGAGATCAG	120
NS 246038 Method K	61	CGATTTGCAGACCAAGAAGCTGGGTGATGCCCCATTCCTTGACCGGCTTCGCCGAGATCAG	120
NS 246038 Method N	61	CGATTTGCAGACCAAGAAGCTGGGTGATGCCCCATTCCTTGACCGGCTTCGCCGAGATCAG	120

NS 246038 MiSeq	121	AAATCCCTGAGAGGAAGAGGCAGCACTCTTGCTGCTGGGCATCGAAACAGCCACCCGTGCA	180
NS 246038 Method A	121	AAATCCCTGAGAGGAAGAGGCAGCACTCTTGCTGCTGGGCATCGAAACAGCCACCCGTGCA	180
NS 246038 Method S	121	AAATCCCTGAGAGGAAGAGGCAGCACTCTTGCTGCTGGGCATCGAAACAGCCACCCGTGCA	180
NS 246038 Method E	121	AAATCCCTGAGAGGAAGAGGCAGCACTCTTGCTGCTGGGCATCGAAACAGCCACCCGTGCA	180
NS 246038 Method K	121	AAATCCCTGAGAGGAAGAGGCAGCACTCTTGCTGCTGGGCATCGAAACAGCCACCCGTGCA	180
NS 246038 Method N	121	AAATCCCTGAGAGGAAGAGGCAGCACTCTTGCTGCTGGGCATCGAAACAGCCACCCGTGCA	180

NS 246038 MiSeq	181	GGAAAGCAGATAGTGGAGCGGATTCTGGAAGAAGAATCTGATGAGACACTTAAAATGACT	240
NS 246038 Method A	181	GGAAAGCAGATAGTGGAGCGGATTCTGGAAGAAGAATCTGATGAGACACTTAAAATGACT	240
NS 246038 Method S	181	GGAAAGCAGATAGTGGAGCGGATTCTGGAAGAAGAATCTGATGAGACACTTAAAATGACT	240
NS 246038 Method E	181	GGAAAGCAGATAGTGGAGCGGATTCTGGAAGAAGAATCTGATGAGACACTTAAAATGACT	240
NS 246038 Method K	181	GGAAAGCAGATAGTGGAGCGGATTCTGGAAGAAGAATCTGATGAGACACTTAAAATGACT	240
NS 246038 Method N	181	GGAAAGCAGATAGTGGAGCGGATTCTGGAAGAAGAATCTGATGAGACACTTAAAATGACT	240

<b>NS 246038 MiSeq</b>	241	ATTGCCCCCTGTGCCAGCTTCACGCTACCTAACTGACATGACTCTTGAGGAAATGTCAAGG	300
<b>NS 246038 Method A</b>	241	ATTGCCCCCTGTGCCAGCTTCACGCTACCTAACTGACATGACTCTTGAGGAAATGTCAAGG	300
<b>NS 246038 Method S</b>	241	ATTGCCCCCTGTGCCAGCTTCACGCTACCTAACTGACATGACTCTTGAGGAAATGTCAAGG	300
<b>NS 246038 Method E</b>	241	ATTGCCCCCTGTGCCAGCTTCACGCTACCTAACTGACATGACTCTTGAGGAAATGTCAAGG	300
<b>NS 246038 Method K</b>	241	ATTGCCCCCTGTGCCAGCTTCACGCTACCTAACTGACATGACTCTTGAGGAAATGTCAAGG	300
<b>NS 246038 Method N</b>	241	ATTGCCCCCTGTGCCAGCTTCACGCTACCTAACTGACATGACTCTTGAGGAAATGTCAAGG	300

<b>NS 246038 MiSeq</b>	301	GACTGGTTCATGCTCATGCCCAAACAGAAAGTGGCAGGTTCCCTTTGCATCAGAATGGAC	360
<b>NS 246038 Method A</b>	301	GACTGGTTCATGCTCATGCCCAAACAGAAAGTGGCAGGTTCCCTTTGCATCAGAATGGAC	360
<b>NS 246038 Method S</b>	301	GACTGGTTCATGCTCATGCCCAAACAGAAAGTGGCAGGTTCCCTTTGCATCAGAATGGAC	360
<b>NS 246038 Method E</b>	301	GACTGGTTCATGCTCATGCCCAAACAGAAAGTGGCAGGTTCCCTTTGCATCAGAATGGAC	360
<b>NS 246038 Method K</b>	301	GACTGGTTCATGCTCATGCCCAAACAGAAAGTGGCAGGTTCCCTTTGCATCAGAATGGAC	360
<b>NS 246038 Method N</b>	301	GACTGGTTCATGCTCATGCCCAAACAGAAAGTGGCAGGTTCCCTTTGCATCAGAATGGAC	360

<b>NS 246038 MiSeq</b>	361	CAGGCAATAATGGATAAAAAACATCATATTGAAAGCAAACCTTCAGTGTGATTTTTGACCGG	420
<b>NS 246038 Method A</b>	361	CAGGCAATAATGGATAAAAAACATCATATTGAAAGCAAACCTTCAGTGTGATTTTTGACCGG	420
<b>NS 246038 Method S</b>	361	CAGGCAATAATGGATAAAAAACATCATATTGAAAGCAAACCTTCAGTGTGATTTTTGACCGG	420
<b>NS 246038 Method E</b>	361	CAGGCAATAATGGATAAAAAACATCATATTGAAAGCAAACCTTCAGTGTGATTTTTGACCGG	420
<b>NS 246038 Method K</b>	361	CAGGCAATAATGGATAAAAAACATCATATTGAAAGCAAACCTTCAGTGTGATTTTTGACCGG	420
<b>NS 246038 Method N</b>	361	CAGGCAATAATGGATAAAAAACATCATATTGAAAGCAAACCTTCAGTGTGATTTTTGACCGG	420

<b>NS 246038 MiSeq</b>	421	CTGGAAACCCTAATACTACTTAGAGCTTTCACAGAAGAAGGAGCAATTGTGGGAGAAATC	480
<b>NS 246038 Method A</b>	421	CTGGAAACCCTAATACTACTTAGAGCTTTCACAGAAGAAGGAGCAATTGTGGGAGAAATC	480
<b>NS 246038 Method S</b>	421	CTGGAAACCCTAATACTACTTAGAGCTTTCACAGAAGAAGGAGCAATTGTGGGAGAAATC	480
<b>NS 246038 Method E</b>	421	CTGGAAACCCTAATACTACTTAGAGCTTTCACAGAAGAAGGAGCAATTGTGGGAGAAATC	480
<b>NS 246038 Method K</b>	421	CTGGAAACCCTAATACTACTTAGAGCTTTCACAGAAGAAGGAGCAATTGTGGGAGAAATC	480
<b>NS 246038 Method N</b>	421	CTGGAAACCCTAATACTACTTAGAGCTTTCACAGAAGAAGGAGCAATTGTGGGAGAAATC	480

NS 246038 MiSeq	481	TCACCATTACCTTCTCTTCCAGGACATACTGATGAGGATGTCAAAAATGCAATTGGGGTCT	540
NS 246038 Method A	481	TCACCATTACCTTCTCTTCCAGGACATACTGATGAGGATGTCAAAAATGCAATTGGGGTCT	540
NS 246038 Method S	481	TCACCATTACCTTCTCTTCCAGGACATACTGATGAGGATGTCAAAAATGCAATTGGGGTCT	540
NS 246038 Method E	481	TCACCATTACCTTCTCTTCCAGGACATACTGATGAGGATGTCAAAAATGCAATTGGGGTCT	540
NS 246038 Method K	481	TCACCATTACCTTCTCTTCCAGGACATACTGATGAGGATGTCAAAAATGCAATTGGGGTCT	540
NS 246038 Method N	481	TCACCATTACCTTCTCTTCCAGGACATACTGATGAGGATGTCAAAAATGCAATTGGGGTCT	540

NS 246038 MiSeq	541	CTCATCGGAGGACTTGAATGGAATGATAACACAGTTCGAGTCTCTGAAACTTTACAGAGA	600
NS 246038 Method A	541	CTCATCGGAGGACTTGAATGGAATGATAACACAGTTCGAGTCTCTGAAACTTTACAGAGA	600
NS 246038 Method S	541	CTCATCGGAGGACTTGAATGGAATGATAACACAGTTCGAGTCTCTGAAACTTTACAGAGA	600
NS 246038 Method E	541	CTCATCGGAGGACTTGAATGGAATGATAACACAGTTCGAGTCTCTGAAACTTTACAGAGA	600
NS 246038 Method K	541	CTCATCGGAGGACTTGAATGGAATGATAACACAGTTCGAGTCTCTGAAACTTTACAGAGA	600
NS 246038 Method N	541	CTCATCGGAGGACTTGAATGGAATGATAACACAGTTCGAGTCTCTGAAACTTTACAGAGA	600

NS 246038 MiSeq	601	TTCGCTTGGAGAAGCAGTAATGAGGATGGGAGACCTCCACTCCCTCCAAAGCAGAAACGG	660
NS 246038 Method A	601	TTCGCTTGGAGAAGCAGTAATGAGGATGGGAGACCTCCACTCCCTCCAAAGCAGAAACGG	660
NS 246038 Method S	601	TTCGCTTGGAGAAGCAGTAATGAGGATGGGAGACCTCCACTCCCTCCAAAGCAGAAACGG	660
NS 246038 Method E	601	TTCGCTTGGAGAAGCAGTAATGAGGATGGGAGACCTCCACTCCCTCCAAAGCAGAAACGG	660
NS 246038 Method K	601	TTCGCTTGGAGAAGCAGTAATGAGGATGGGAGACCTCCACTCCCTCCAAAGCAGAAACGG	660
NS 246038 Method N	601	TTCGCTTGGAGAAGCAGTAATGAGGATGGGAGACCTCCACTCCCTCCAAAGCAGAAACGG	660

NS 246038 MiSeq	661	AAAATGGCGAGAACAATTGAGTCAGAAGTTTGAGGAAATAAGATGGCTGATTGAAGGAGT	720
NS 246038 Method A	661	AAAATGGCGAGAACAATTGAGTCAGAAGTTTGAGGAAATAAGATGGCTGATTGAAGGAGT	720
NS 246038 Method S	661	AAAATGGCGAGAACAATTGAGTCAGAAGTTTGAGGAAATAAGATGGCTGATTGAAGGAGT	720
NS 246038 Method E	661	AAAATGGCGAGAACAATTGAGTCAGAAGTTTGAGGAAATAAGATGGCTGATTGAAGGAGT	720
NS 246038 Method K	661	AAAATGGCGAGAACAATTGAGTCAGAAGTTTGAGGAAATAAGATGGCTGATTGAAGGAGT	720
NS 246038 Method N	661	AAAATGGCGAGAACAATTGAGTCAGAAGTTTGAGGAAATAAGATGGCTGATTGAAGGAGT	720

<b>NS 246038 MiSeq</b>	721	GCGGCACAGATTGAAGATTACAGAGAACAGTTTCGAACAGATAACTTTTATGCAAGCCTT	780
<b>NS 246038 Method A</b>	721	GCGGCACAGATTGAAGATTACAGAGAACAGTTTCGAACAGATAACTTTTATGCAAGCCTT	780
<b>NS 246038 Method S</b>	721	GCGGCACAGATTGAAGATTACAGAGAACAGTTTCGAACAGATAACTTTTATGCAAGCCTT	780
<b>NS 246038 Method E</b>	721	GCGGCACAGATTGAAGATTACAGAGAACAGTTTCGAACAGATAACTTTTATGCAAGCCTT	780
<b>NS 246038 Method K</b>	721	GCGGCACAGATTGAAGATTACAGAGAACAGTTTCGAACAGATAACTTTTATGCAAGCCTT	780
<b>NS 246038 Method N</b>	721	GCGGCACAGATTGAAGATTACAGAGAACAGTTTCGAACAGATAACTTTTATGCAAGCCTT	780

<b>NS 246038 MiSeq</b>	781	ACAAC TATTGCTTGAAGTGGAGCAAGAGATAAGA AACTTTCTCGTTTCAGCTTATTTAA	838
<b>NS 246038 Method A</b>	781	ACAAC TATTGCTTGAAGTGGAGCAAGAGATAAGA AACTTTCTCGTTTCAGCTTATTTAA	838
<b>NS 246038 Method S</b>	781	ACAAC TATTGCTTGAAGTGGAGCAAGAGATAAGA AACTTTCTCGTTTCAGCTTATTTAA	838
<b>NS 246038 Method E</b>	781	ACAAC TATTGCTTGAAGTGGAGCAAGAGATAAGA AACTTTCTCGTTTCAGCTTATTTAA	838
<b>NS 246038 Method K</b>	781	ACAAC TATTGCTTGAAGTGGAGCAAGAGATAAGA AACTTTCTCGTTTCAGCTTATTTAA	838
<b>NS 246038 Method N</b>	781	ACAAC TATTGCTTGAAGTGGAGCAAGAGATAAGA AACTTTCTCGTTTCAGCTTATTTAA	838