Oligos and primers for BGISEQ/DNBSEQ/MGISEQ library preparation：

Oligos for BGISEQ/DNBSEQ/MGISEQ adapters(Ad153):

The followings sequences are for Ad153_5T_1-index # (1~128) and Ad153Ω_Bottom_2.

One Ad153_5T-index # and one Ad153_Bottom_2 are annealed together to generate **ONE** individual adapter for BGISEQ/DNBSEQ/MGISEQ system.

Ad153_5T_1-index 1:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAATAGGTCCGATCAACTCCTTGGCTCACA
Ad153_5T_1-index 2:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAGGACGGAATCCAACTCCTTGGCTCACA
Ad153_5T_1-index 3:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAACTTACTGCCGCAACTCCTTGGCTCACA
Ad153_5T_1-index 4:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAACCTAATTGACAACTCCTTGGCTCACA
Ad153_5T_1-index 5:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAATTCGTATCCGCAACTCCTTGGCTCACA
Ad153_5T_1-index 6:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAGGTAACGAGCCAACTCCTTGGCTCACA
Ad153_5T_1-index 7:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAACAACGTATAACAACTCCTTGGCTCACA
Ad153_5T_1-index 8:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAACGTCGCGTTCAACTCCTTGGCTCACA
Ad153_5T_1-index 9:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAATTCTGCTAGCCAACTCCTTGGCTCACA
Ad153_5T_1-index 10:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAAGGAAGATAGCAACTCCTTGGCTCACA
Ad153_5T_1-index 11:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAGCTCTTGCTTCAACTCCTTGGCTCACA
Ad153_5T_1-index 12:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAACAAGCACGCACAACTCCTTGGCTCACA
Ad153_5T_1-index 13:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAACGGCAATCCGCAACTCCTTGGCTCACA
Ad153_5T_1-index 14:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAATCAGGATTCCAACTCCTTGGCTCACA
Ad153_5T_1-index 15:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAATCATTCCAGACAACTCCTTGGCTCACA
Ad153_5T_1-index 16:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAGATGCTGGATCAACTCCTTGGCTCACA
Ad153_5T_1-index 17:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAGTGAGTGATGCAACTCCTTGGCTCACA
Ad153_5T_1-index 18:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAGAGTCAGCTGCAACTCCTTGGCTCACA
Ad153_5T_1-index 19:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAATGTCTGCGAACAACTCCTTGGCTCACA
Ad153_5T_1-index 20:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAATTGGTACAACAACTCCTTGGCTCACA
Ad153_5T_1-index 21:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAACGATTGTGGTCAACTCCTTGGCTCACA
Ad153_5T_1-index 22:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAACAGACTTCCCAACTCCTTGGCTCACA
Ad153_5T_1-index 23:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAATCCACACTCTCAACTCCTTGGCTCACA
Ad153_5T_1-index 24:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAACACCACAAGCCAACTCCTTGGCTCACA
Ad153_5T_1-index 25:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAATAGAGGACAACAACTCCTTGGCTCACA
Ad153_5T_1-index 26:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAACCTAGCGAATCAACTCCTTGGCTCACA
Ad153_5T_1-index 27:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAGTAGTCATCGCAACTCCTTGGCTCACA
Ad153_5T_1-index 28:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAGCTGAGCTGTCAACTCCTTGGCTCACA

Ad153_5T_1-index 29:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAAACCTAGATACAACTCCTTGGCTCACA
Ad153_5T_1-index 30:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAATTGCCATCTCCAACTCCTTGGCTCACA
Ad153_5T_1-index 31:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAAGATCTTGCGCAACTCCTTGGCTCACA
Ad153_5T_1-index 32:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAACGCTATCGGCCAACTCCTTGGCTCACA
Ad153_5T_1-index 33:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAGCAACGATGGCAACTCCTTGGCTCACA
Ad153_5T_1-index 34:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAATAATCGTTCACAACTCCTTGGCTCACA
Ad153_5T_1-index 35:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAGTTCGCTCTACAACTCCTTGGCTCACA
Ad153_5T_1-index 36:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAATCTCACACATCAACTCCTTGGCTCACA
Ad153_5T_1-index 37:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAACTGTTAGGATCAACTCCTTGGCTCACA
Ad153_5T_1-index 38:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAACGCAGACGCGCAACTCCTTGGCTCACA
Ad153_5T_1-index 39:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAAAGGATCATCCAACTCCTTGGCTCACA
Ad153_5T_1-index 40:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAAGCGTTGAGCCAACTCCTTGGCTCACA
Ad153_5T_1-index 41:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAATTAGATGCATCAACTCCTTGGCTCACA
Ad153_5T_1-index 42:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAGTCCAGAGCTCAACTCCTTGGCTCACA
Ad153_5T_1-index 43:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAACACGTGATAGCAACTCCTTGGCTCACA
Ad153_5T_1-index 44:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAACCACTAGTCCCAACTCCTTGGCTCACA
Ad153_5T_1-index 45:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAATGGACTTGGCCAACTCCTTGGCTCACA
Ad153_5T_1-index 46:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAGCTTGACAGGCAACTCCTTGGCTCACA
Ad153_5T_1-index 47:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAAAGACCTCTACAACTCCTTGGCTCACA
Ad153_5T_1-index 48:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAAGTTGCCATACAACTCCTTGGCTCACA
Ad153_5T_1-index 49:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAATGTACGCAGCAACTCCTTGGCTCACA
Ad153_5T_1-index 50:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAATTAATGAGATCAACTCCTTGGCTCACA
Ad153_5T_1-index 51:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAATGCGCCACTTCAACTCCTTGGCTCACA
Ad153_5T_1-index 52:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAACATTAAGGCCCAACTCCTTGGCTCACA
Ad153_5T_1-index 53:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAACCGCCTCAGACAACTCCTTGGCTCACA
Ad153_5T_1-index 54:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAAATCGGCTCGCAACTCCTTGGCTCACA
Ad153_5T_1-index 55:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAGCCGGTTATCCAACTCCTTGGCTCACA
Ad153_5T_1-index 56:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAGGAATATTGACAACTCCTTGGCTCACA
Ad153_5T_1-index 57:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAATTCAACGGACAACTCCTTGGCTCACA
Ad153_5T_1-index 58:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAAACTGTACTGCAACTCCTTGGCTCACA
Ad153_5T_1-index 59:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAGTACCTCAATCAACTCCTTGGCTCACA
Ad153_5T_1-index 60:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAGACTTCTAATCAACTCCTTGGCTCACA
Ad153_5T_1-index 61:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAATGAAGCGTTGCAACTCCTTGGCTCACA
Ad153_5T_1-index 62:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAACGTGCGATCCCAACTCCTTGGCTCACA

Ad153_5T_1-index 63:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAATCGGAAGGCACAACTCCTTGGCTCACA
Ad153_5T_1-index 64:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAACCGATGTCGCCAACTCCTTGGCTCACA
Ad153_5T_1-index 65:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAACTTAGAATGCAACTCCTTGGCTCACA
Ad153_5T_1-index 66:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAATCCAAGCCTGCAACTCCTTGGCTCACA
Ad153_5T_1-index 67:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAAGACGATGATCAACTCCTTGGCTCACA
Ad153_5T_1-index 68:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAACTCACAAGACCAACTCCTTGGCTCACA
Ad153_5T_1-index 69:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAACGTTCCTACTCAACTCCTTGGCTCACA
Ad153_5T_1-index 70:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAGTGGTTGTGACAACTCCTTGGCTCACA
Ad153_5T_1-index 71:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAGAAGGCCTGCCAACTCCTTGGCTCACA
Ad153_5T_1-index 72:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAATAGCTTGCCACAACTCCTTGGCTCACA
Ad153_5T_1-index 73:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAGACAATGCTCCAACTCCTTGGCTCACA
Ad153_5T_1-index 74:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAGCTAATCACACAACTCCTTGGCTCACA
Ad153_5T_1-index 75:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAAGTCCATAGGCAACTCCTTGGCTCACA
Ad153_5T_1-index 76:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAACTATCGCCTACAACTCCTTGGCTCACA
Ad153_5T_1-index 77:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAATCGTGGTCTCAACTCCTTGGCTCACA
Ad153_5T_1-index 78:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAATGGCTAATACCAACTCCTTGGCTCACA
Ad153_5T_1-index 79:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAACAGTGCAGAGCAACTCCTTGGCTCACA
Ad153_5T_1-index 80:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAATCAGGCTGGTCAACTCCTTGGCTCACA
Ad153_5T_1-index 81:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAATACTCACGCCAACTCCTTGGCTCACA
Ad153_5T_1-index 82:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAATGCTCCGCGCAACTCCTTGGCTCACA
Ad153_5T_1-index 83:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAATGTGAACTTGCAACTCCTTGGCTCACA
Ad153_5T_1-index 84:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAGAGAGGTGCTCAACTCCTTGGCTCACA
Ad153_5T_1-index 85:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAATGCACTGTAACAACTCCTTGGCTCACA
Ad153_5T_1-index 86:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAGCCTAGGCAACAACTCCTTGGCTCACA
Ad153_5T_1-index 87:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAACCATCATAGCCAACTCCTTGGCTCACA
Ad153_5T_1-index 88:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAACATGGTAATTCAACTCCTTGGCTCACA
Ad153_5T_1-index 89:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAACACCATGTCTCAACTCCTTGGCTCACA
Ad153_5T_1-index 90:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAATATGTCTGGCAACTCCTTGGCTCACA
Ad153_5T_1-index 91:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAAAGGAAGCGTCAACTCCTTGGCTCACA
Ad153_5T_1-index 92:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAATCAAGACGTCCAACTCCTTGGCTCACA
Ad153_5T_1-index 93:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAACCGCTCAGTACAACTCCTTGGCTCACA
Ad153_5T_1-index 94:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAGGTGTGTACACAACTCCTTGGCTCACA
Ad153_5T_1-index 95:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAATTCACGTAAGCAACTCCTTGGCTCACA
Ad153_5T_1-index 96:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAGGTTCCACACCAACTCCTTGGCTCACA

Ad153_5T_1-index 97:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAAGGTATTCTTCAACTCCTTGGCTCACA
Ad153_5T_1-index 98:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAACGAATGCAACCAACTCCTTGGCTCACA
Ad153_5T_1-index 99:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAATTCAACGGCGCAACTCCTTGGCTCACA
Ad153_5T_1-index 100:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAACTCGGCGGAACAACTCCTTGGCTCACA
Ad153_5T_1-index 101:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAACGGTAATGGCAACTCCTTGGCTCACA
Ad153_5T_1-index 102:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAGATCCGACGTCAACTCCTTGGCTCACA
Ad153_5T_1-index 103:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAATCACGATACACAACTCCTTGGCTCACA
Ad153_5T_1-index 104:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAGATTCTCTTCCAACTCCTTGGCTCACA
Ad153_5T_1-index 105:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAAGAATTAATGCAACTCCTTGGCTCACA
Ad153_5T_1-index 106:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAACCAGCGTCACAACTCCTTGGCTCACA
Ad153_5T_1-index 107:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAACGTCAGGCTCCAACTCCTTGGCTCACA
Ad153_5T_1-index 108:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAACCTGCTCTAGCAACTCCTTGGCTCACA
Ad153_5T_1-index 109:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAATAACTCAACTCAACTCCTTGGCTCACA
Ad153_5T_1-index 110:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAATAGTGACCGCCAACTCCTTGGCTCACA
Ad153_5T_1-index 111:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAGTGGAGTGAACAACTCCTTGGCTCACA
Ad153_5T_1-index 112:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAGTCTCATGGTCAACTCCTTGGCTCACA
Ad153_5T_1-index 113:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAGAACAACCTACAACTCCTTGGCTCACA
Ad153_5T_1-index 114:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAACCAGAGTCAGCAACTCCTTGGCTCACA
Ad153_5T_1-index 115:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAAACAGGCAGTCAACTCCTTGGCTCACA
Ad153_5T_1-index 116:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAGCTCCATGACCAACTCCTTGGCTCACA
Ad153_5T_1-index 117:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAATGTCTATCCCAACTCCTTGGCTCACA
Ad153_5T_1-index 118:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAACTTGTCGAGGCAACTCCTTGGCTCACA
Ad153_5T_1-index 119:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAATGCTTCGGTACAACTCCTTGGCTCACA
Ad153_5T_1-index 120:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAATGGAGTATCTCAACTCCTTGGCTCACA
Ad153_5T_1-index 121:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAACCTTGATCAACAACTCCTTGGCTCACA
Ad153_5T_1-index 122:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAGGAAGTGGCACAACTCCTTGGCTCACA
Ad153_5T_1-index 123:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAAACATTCTACCAACTCCTTGGCTCACA
Ad153_5T_1-index 124:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAGACGCGAGTCCAACTCCTTGGCTCACA
Ad153_5T_1-index 125:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAACTATAACACTCAACTCCTTGGCTCACA
Ad153_5T_1-index 126:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAAGTCTCGTGTCAACTCCTTGGCTCACA
Ad153_5T_1-index 127:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAATCGGCCTATGCAACTCCTTGGCTCACA
Ad153_5T_1-index 128:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAATTGCAGACGGCAACTCCTTGGCTCACA
Ad153Ω_Bottom_2:	TTGTCTTCCTAAGGAACGACATGGCTACGATCCGACTT

Primers for BGISEQ/DNBSEQ/MGISEQ library preparation:

Ad153_PCR2_2 and Ad153_PCR2_1 are used for the PCR step of ligation products.

Ad153_PCR2_2:	TGTGAGCCAAGGAGTTG
Ad153_PCR2_1:	/5Phos/GAACGACATGGCTACGA

Splint oligo for BGISEQ/ DNBSEQ/MGISEQ library cyclization:

Ad153_Splint oligo is used for circularization of the PCR products.

Ad153_Splint oligo:	GCCATGTCGTTCTGTGAGCCAAGG

Primers for BGISEQ/ DNBSEQ/MGISEQ library sequencing:

All following sequencing primers are included in the sequencing kits of BGISEQ/DNBSEQ/MGISEQ system.

Read 1 sequencing primer:	GCTCACAGAACGACATGGCTACGATCCGACTT
Barcode SE sequencing primer:	AAGTCGGAGGCCAAGCGGTCTTAGGAAGACAA
Read 2 sequencing primer:	TTGTCTTCCTAAGACCGCTTGGCCTCCGACTT
Barcode PE sequencing primer:	ATGTCGTTCTGTGAGCCAAGGAGTTG

Blocks for adapters with index 1-16:

These blocks are included in MGIEasy™ WES rapid library preparation kit. Customers do not need to prepare these blocks.

Ad153_newBC_indexblock_1:	AGTCGGAGGCCAAGCGGTCTTAGGAAGACAATAGGTCCGATCAACTCCTTGGCTCACA
Ad153_newBC_indexblock_2:	AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAGGACGGAATCCAACTCCTTGGCTCACA
Ad153_newBC_indexblock_3:	AGTCGGAGGCCAAGCGGTCTTAGGAAGACAACTTACTGCCGCAACTCCTTGGCTCACA
Ad153_newBC_indexblock_4:	AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAACCTAATTGACAACTCCTTGGCTCACA
Ad153_newBC_indexblock_5:	AGTCGGAGGCCAAGCGGTCTTAGGAAGACAATTCGTATCCGCAACTCCTTGGCTCACA
Ad153_newBC_indexblock_6:	AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAGGTAACGAGCCAACTCCTTGGCTCACA
Ad153_newBC_indexblock_7:	AGTCGGAGGCCAAGCGGTCTTAGGAAGACAACAACGTATAACAACTCCTTGGCTCACA
Ad153_newBC_indexblock_8:	AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAACGTCGCGTTCAACTCCTTGGCTCACA
Ad153_newBC_indexblock_9:	AGTCGGAGGCCAAGCGGTCTTAGGAAGACAATTCTGCTAGCCAACTCCTTGGCTCACA
Ad153_newBC_indexblock_10:	AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAAGGAAGATAGCAACTCCTTGGCTCACA
Ad153_newBC_indexblock_11:	AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAGCTCTTGCTTCAACTCCTTGGCTCACA
Ad153_newBC_indexblock_12:	AGTCGGAGGCCAAGCGGTCTTAGGAAGACAACAAGCACGCACAACTCCTTGGCTCACA

Ad153_newBC_indexblock_13:	AGTCGGAGGCCAAGCGGTCTTAGGAAGACAACGGCAATCCGCAACTCCTTGGCTCACA
Ad153_newBC_indexblock_14:	AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAATCAGGATTCCAACTCCTTGGCTCACA
Ad153_newBC_indexblock_15:	AGTCGGAGGCCAAGCGGTCTTAGGAAGACAATCATTCCAGACAACTCCTTGGCTCACA
Ad153_newBC_indexblock_16:	AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAGATGCTGGATCAACTCCTTGGCTCACA
Ad153_new PCR block1:	AAGTCGGATCGTAGCCATGTCGTTC

NOTE: For index 17 -128, customers need to prepare the blocks by themselves.

Sequences for adapters filter:

The following sequences are used to filter the adapter contamination in raw data.

Forward filter:	AAGTCGGAGGCCAAGCGGTCTTAGGAAGACAA
Reverse filter:	AAGTCGGATCGTAGCCATGTCGTTCTGTGAGCCAAGGAGTTG

Default sample indexes 1-128 on BGISEQ/DNBSEQ/MGISEQ NGS system

The following sequences are indexes/barcodes built-in the adapters. The BGISEQ/DNBSEQ/MGISEQ NGS system will automatically generate the FastQ file of each index/barcode.

Index 1	TAGGTCCGAT
Index 2	GGACGGAATC
Index 3	CTTACTGCCG
Index 4	ACCTAATTGA
Index 5	TTCGTATCCG
Index 6	GGTAACGAGC
Index 7	CAACGTATAA
Index 8	ACGTCGCGTT
Index 9	TTCTGCTAGC
Index 10	AGGAAGATAG
Index 11	GCTCTTGCTT
Index 12	CAAGCACGCA
Index 13	CGGCAATCCG
Index 14	ATCAGGATTC
Index 15	TCATTCCAGA
Index 16	GATGCTGGAT
Index 17	GTGAGTGATG
Index 18	GAGTCAGCTG
Index 19	TGTCTGCGAA
Index 20	ATTGGTACAA
Index 21	CGATTGTGGT
Index 22	ACAGACTTCC
Index 23	TCCACACTCT
Index 24	CACCACAAGC
Index 25	TAGAGGACAA
Index 26	CCTAGCGAAT
Index 27	GTAGTCATCG
Index 28	GCTGAGCTGT
Index 29	AACCTAGATA

Index 30	TTGCCATCTC
Index 31	AGATCTTGCG
Index 32	CGCTATCGGC
Index 33	GCAACGATGG
Index 34	TAATCGTTCA
Index 35	GTTCGCTCTA
Index 36	TCTCACACAT
Index 37	CTGTTAGGAT
Index 38	CGCAGACGCG
Index 39	AAGGATCATC
Index 40	AGCGTTGAGC
Index 41	TTAGATGCAT
Index 42	GTCCAGAGCT
Index 43	CACGTGATAG
Index 44	CCACTAGTCC
Index 45	TGGACTTGGC
Index 46	GCTTGACAGG
Index 47	AAGACCTCTA
Index 48	AGTTGCCATA
Index 49	ATGTACGCAG
Index 50	TTAATGAGAT
Index 51	TGCGCCACTT
Index 52	CATTAAGGCC
Index 53	CCGCCTCAGA
Index 54	AATCGGCTCG
Index 55	GCCGGTTATC
Index 56	GGAATATTGA
Index 57	ATTCAACGGA
Index 58	AACTGTACTG
Index 59	GTACCTCAAT
Index 60	GACTTCTAAT
Index 61	TGAAGCGTTG
Index 62	CGTGCGATCC
Index 63	TCGGAAGGCA

Index 64	CCGATGTCGC
Index 65	ACTTAGAATG
Index 66	TCCAAGCCTG
Index 67	AGACGATGAT
Index 68	CTCACAAGAC
Index 69	CGTTCCTACT
Index 70	GTGGTTGTGA
Index 71	GAAGGCCTGC
Index 72	TAGCTTGCCA
Index 73	GACAATGCTC
Index 74	GCTAATCACA
Index 75	AGTCCATAGG
Index 76	CTATCGCCTA
Index 77	ATCGTGGTCT
Index 78	TGGCTAATAC
Index 79	CAGTGCAGAG
Index 80	TCAGGCTGGT
Index 81	ATACTCACGC
Index 82	ATGCTCCGCG
Index 83	TGTGAACTTG
Index 84	GAGAGGTGCT
Index 85	TGCACTGTAA
Index 86	GCCTAGGCAA
Index 87	CCATCATAGC
Index 88	CATGGTAATT
Index 89	CACCATGTCT
Index 90	ATATGTCTGG
Index 91	AAGGAAGCGT
Index 92	TCAAGACGTC
Index 93	CCGCTCAGTA
Index 94	GGTGTGTACA
Index 95	TTCACGTAAG
Index 96	GGTTCCACAC
Index 97	AGGTATTCTT

Index 98	CGAATGCAAC
Index 99	TTCAACGGCG
Index 100	CTCGGCGGAA
Index 101	ACGGTAATGG
Index 102	GATCCGACGT
Index 103	TCACGATACA
Index 104	GATTCTCTTC
Index 105	AGAATTAATG
Index 106	ACCAGCGTCA
Index 107	CGTCAGGCTC
Index 108	CCTGCTCTAG
Index 109	TAACTCAACT
Index 110	TAGTGACCGC
Index 111	GTGGAGTGAA
Index 112	GTCTCATGGT
Index 113	GAACAACCTA
Index 114	CCAGAGTCAG
Index 115	AACAGGCAGT
Index 116	GCTCCATGAC
Index 117	ATGTCTATCC
Index 118	CTTGTCGAGG
Index 119	TGCTTCGGTA
Index 120	TGGAGTATCT
Index 121	CCTTGATCAA
Index 122	GGAAGTGGCA
Index 123	AACATTCTAC
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