

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 Ad153Q_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/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAGGACGGAATCCAACCTCCTTGGCTCACA
Ad153_5T_1-index 3:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAATTACTGCCGCAACTCCTTGGCTCACA
Ad153_5T_1-index 4:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAACCTAATTGACAACTCCTTGGCTCACA
Ad153_5T_1-index 5:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAATTCGTATCCGCAACTCCTTGGCTCACA
Ad153_5T_1-index 6:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAGGTAACGAGCCAACCTCCTTGGCTCACA
Ad153_5T_1-index 7:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAACAACGTATAACAACCTCCTTGGCTCACA
Ad153_5T_1-index 8:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAACGTGCGTTCAACTCCTTGGCTCACA
Ad153_5T_1-index 9:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAATTCTGCTAGCCAACCTCCTTGGCTCACA
Ad153_5T_1-index 10:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAAGGAAGATAGCAACTCCTTGGCTCACA
Ad153_5T_1-index 11:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAGCTCTTGCTTCAACTCCTTGGCTCACA
Ad153_5T_1-index 12:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAACAAGCACGCACAACCTCCTTGGCTCACA
Ad153_5T_1-index 13:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAACGGCAATCCGCAACTCCTTGGCTCACA
Ad153_5T_1-index 14:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAATCAGGATTCCTCAACTCCTTGGCTCACA
Ad153_5T_1-index 15:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAATCATTCCAGACAACCTCCTTGGCTCACA
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/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAATGCTGCGAACAACCTCCTTGGCTCACA
Ad153_5T_1-index 20:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAATTGGTACAACAACCTCCTTGGCTCACA
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/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAACACCACAAGCCAACCTCCTTGGCTCACA
Ad153_5T_1-index 25:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAATAGAGGACAACAACCTCCTTGGCTCACA
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/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAAACCTAGATACAACCTCCTTGGCTCACA
Ad153_5T_1-index 30:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAATTGCCATCTCCAACCTCCTTGGCTCACA
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/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAATAATCGTTCACAACCTCCTTGGCTCACA
Ad153_5T_1-index 35:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAGTTCGCTCTACAACCTCCTTGGCTCACA
Ad153_5T_1-index 36:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAATCTCACACATCAACTCCTTGGCTCACA
Ad153_5T_1-index 37:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAACGTTAGGATCAACTCCTTGGCTCACA
Ad153_5T_1-index 38:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAACGCAGACGCGCAACTCCTTGGCTCACA
Ad153_5T_1-index 39:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAAAGGATCATCCAACCTCCTTGGCTCACA
Ad153_5T_1-index 40:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAAAGCGTTAGGCCAACTCCTTGGCTCACA
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/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAACCACTAGTCCAACTCCTTGGCTCACA
Ad153_5T_1-index 45:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAATGGACTTGGCCAACCTCCTTGGCTCACA
Ad153_5T_1-index 46:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAGCTTGACAGGCAACTCCTTGGCTCACA
Ad153_5T_1-index 47:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAAAGACCTCTACAACCTCCTTGGCTCACA
Ad153_5T_1-index 48:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAAAGTGGCATACAACCTCCTTGGCTCACA
Ad153_5T_1-index 49:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAATGTACGCAGCAACTCCTTGGCTCACA
Ad153_5T_1-index 50:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAATTAATGAGATCAACTCCTTGGCTCACA
Ad153_5T_1-index 51:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAATGCGCCACTTCAACTCCTTGGCTCACA
Ad153_5T_1-index 52:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAACATTAAGGCCAACTCCTTGGCTCACA
Ad153_5T_1-index 53:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAACCGCCTCAGACAACCTCCTTGGCTCACA
Ad153_5T_1-index 54:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAAATCGGCTCGCAACTCCTTGGCTCACA
Ad153_5T_1-index 55:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAGCCGGTTATCCAACCTCCTTGGCTCACA
Ad153_5T_1-index 56:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAGGAATATTGACAACCTCCTTGGCTCACA
Ad153_5T_1-index 57:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAAATCAACGGACAACCTCCTTGGCTCACA
Ad153_5T_1-index 58:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAAAGTACTGCAACTCCTTGGCTCACA
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/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAATCGGAAGGCACAACCTCCTTGGCTCACA
Ad153_5T_1-index 64:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAACCGATGTCGCCAACCTCCTTGGCTCACA
Ad153_5T_1-index 65:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAACTTAGAATGCAACTCCTTGGCTCACA
Ad153_5T_1-index 66:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAATCCAAGCCTGCAACTCCTTGGCTCACA
Ad153_5T_1-index 67:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAAAGACGATGATCAACTCCTTGGCTCACA
Ad153_5T_1-index 68:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAACCTCACAAAGACCAACTCCTTGGCTCACA
Ad153_5T_1-index 69:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAACGTTCTACTCAACTCCTTGGCTCACA
Ad153_5T_1-index 70:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAGTGGTTGTGACAACCTCCTTGGCTCACA
Ad153_5T_1-index 71:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAGAAGGCCTGCCAACTCCTTGGCTCACA
Ad153_5T_1-index 72:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAATAGCTTGCCACAACCTCCTTGGCTCACA
Ad153_5T_1-index 73:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAGACAATGCTCCAACCTCCTTGGCTCACA
Ad153_5T_1-index 74:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAGCTAATCACACAACCTCCTTGGCTCACA
Ad153_5T_1-index 75:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAAGTCCATAGGCCAACTCCTTGGCTCACA
Ad153_5T_1-index 76:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAACCTATCGCCTACAACCTCCTTGGCTCACA
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/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAATGCACTGTAACAACCTCCTTGGCTCACA
Ad153_5T_1-index 86:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAGCCTAGGCAACAACCTCCTTGGCTCACA
Ad153_5T_1-index 87:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAACCATCATAGCCAACCTCCTTGGCTCACA
Ad153_5T_1-index 88:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAACATGGTAATTCAACTCCTTGGCTCACA
Ad153_5T_1-index 89:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAACCCATGTCTCAACTCCTTGGCTCACA
Ad153_5T_1-index 90:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAATATGTCTGGCAACTCCTTGGCTCACA
Ad153_5T_1-index 91:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAAAGGAAGCGTCAACTCCTTGGCTCACA
Ad153_5T_1-index 92:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAATCAAGACGTCCAACCTCCTTGGCTCACA
Ad153_5T_1-index 93:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAACCGCTCAGTACAACCTCCTTGGCTCACA
Ad153_5T_1-index 94:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAGGTGTGTACACAACCTCCTTGGCTCACA
Ad153_5T_1-index 95:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAATTCAGTAAGCAACTCCTTGGCTCACA
Ad153_5T_1-index 96:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAGGTTCCACCAACTCCTTGGCTCACA

Ad153_5T_1-index 97:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAGGTATTCTTCAACTCCTTGGCTCACA
Ad153_5T_1-index 98:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAACGAATGCAACCAACTCCTTGGCTCACA
Ad153_5T_1-index 99:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAATTCAACGGCGCAACTCCTTGGCTCACA
Ad153_5T_1-index 100:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAACCTCGGCGGAACCAACTCCTTGGCTCACA
Ad153_5T_1-index 101:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAACGGTAATGGCAACTCCTTGGCTCACA
Ad153_5T_1-index 102:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAGATCCGACGTCAACTCCTTGGCTCACA
Ad153_5T_1-index 103:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAATCACGATACACAACCTCCTTGGCTCACA
Ad153_5T_1-index 104:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAGATTCTTCCAACCTCCTTGGCTCACA
Ad153_5T_1-index 105:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAAGAATTAATGCAACTCCTTGGCTCACA
Ad153_5T_1-index 106:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAACCAGCGTCACAACCTCCTTGGCTCACA
Ad153_5T_1-index 107:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAACGTCAGGCTCCAACCTCCTTGGCTCACA
Ad153_5T_1-index 108:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAACCTGCTCTAGCAACTCCTTGGCTCACA
Ad153_5T_1-index 109:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAATAACTCAACTCAACTCCTTGGCTCACA
Ad153_5T_1-index 110:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAATAGTGACCGCCAACCTCCTTGGCTCACA
Ad153_5T_1-index 111:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAGTGGAGTGAACAACCTCCTTGGCTCACA
Ad153_5T_1-index 112:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAGTCTCATGGTCAACTCCTTGGCTCACA
Ad153_5T_1-index 113:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAGAACAACCTACAACCTCCTTGGCTCACA
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/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAATGTCTATCCAACCTCCTTGGCTCACA
Ad153_5T_1-index 118:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAACCTGTGCGAGGCAACTCCTTGGCTCACA
Ad153_5T_1-index 119:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAATGCTTCGGTACAACCTCCTTGGCTCACA
Ad153_5T_1-index 120:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAATGGAGTATCTCAACTCCTTGGCTCACA
Ad153_5T_1-index 121:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAACCTTGATCAACAACCTCCTTGGCTCACA
Ad153_5T_1-index 122:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAGGAAGTGGCACAACCTCCTTGGCTCACA
Ad153_5T_1-index 123:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAAACATTCTACCAACTCCTTGGCTCACA
Ad153_5T_1-index 124:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAGACGCGAGTCCAACCTCCTTGGCTCACA
Ad153_5T_1-index 125:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAACCTATAACACTCAACTCCTTGGCTCACA
Ad153_5T_1-index 126:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAAGTCTCGTGTCAACTCCTTGGCTCACA
Ad153_5T_1-index 127:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAATCGGCCTATGCAACTCCTTGGCTCACA
Ad153_5T_1-index 128:	/5Phos/AGTCGGAGGCCAAGCGGTCTTAGGAAGACAATTGCAGACGGCAACTCCTTGGCTCACA
Ad153Ω_Bottom_2:	TTGTCTTCTAAGGAACGACATGGCTACGATCCGACTT

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:	TTGTCTTCCTAAGACCGTTGGCTCCGACTT
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:	AGTCGGAGGCCAAGCGGTCTTAGGAAGACAATAGGTCGGATCAACTCCTTGGCTCACA
Ad153_newBC_indexblock_2:	AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAGGACGGAATCCAACCTCCTTGGCTCACA
Ad153_newBC_indexblock_3:	AGTCGGAGGCCAAGCGGTCTTAGGAAGACAACCTACTGCCGCAACTCCTTGGCTCACA
Ad153_newBC_indexblock_4:	AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAACCTAATTGACAACCTCCTTGGCTCACA
Ad153_newBC_indexblock_5:	AGTCGGAGGCCAAGCGGTCTTAGGAAGACAATTCGTATCCGCAACTCCTTGGCTCACA
Ad153_newBC_indexblock_6:	AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAGGTAACGAGCCAACCTCCTTGGCTCACA
Ad153_newBC_indexblock_7:	AGTCGGAGGCCAAGCGGTCTTAGGAAGACAACAACGTATAACAACCTCCTTGGCTCACA
Ad153_newBC_indexblock_8:	AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAACGTCGCGTTCAACTCCTTGGCTCACA
Ad153_newBC_indexblock_9:	AGTCGGAGGCCAAGCGGTCTTAGGAAGACAATTCGTAGCCTAGCCTCCTTGGCTCACA
Ad153_newBC_indexblock_10:	AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAAGGAAGATAGCAACTCCTTGGCTCACA
Ad153_newBC_indexblock_11:	AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAGCTCTTCTTCAACTCCTTGGCTCACA
Ad153_newBC_indexblock_12:	AGTCGGAGGCCAAGCGGTCTTAGGAAGACAACAAGCAGCACAACCTCCTTGGCTCACA

Ad153_newBC_indexblock_13:	AGTCGGAGGCCAAGCGGTCTTAGGAAGACAACGGCAATCCGCAACTCCTTGGCTCACA
Ad153_newBC_indexblock_14:	AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAATCAGGATTCCAACCTCCTTGGCTCACA
Ad153_newBC_indexblock_15:	AGTCGGAGGCCAAGCGGTCTTAGGAAGACAATCATTCCAGACAACCTCCTTGGCTCACA
Ad153_newBC_indexblock_16:	AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAGATGCTGGATCCAACCTCCTTGGCTCACA
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	ACGTCCGCTT
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	GTTGCTCTA
Index 36	TCTCACACAT
Index 37	CTGTTAGGAT
Index 38	CGCAGACGGG
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	GCCGTTATC
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	CCGATGTCCG
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	ATGCTCCGGG
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	GGTCCACAC
Index 97	AGGTATTCTT

Index 98	CGAATGCAAC
Index 99	TTC AACGGGG
Index 100	CTCGGGGAA
Index 101	ACGGTAATGG
Index 102	GATCCGACGT
Index 103	TCACGATACA
Index 104	GATTCTCTTC
Index 105	AGAATTAATG
Index 106	ACCAGGGTCA
Index 107	CGTCAGGCTC
Index 108	CCTGCTCTAG
Index 109	TA ACTCAACT
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
Index 124	GACGGGAGTC
Index 125	CTATAACACT
Index 126	AGTCTCGTGT
Index 127	TCGGCCTATG
Index 128	TTGCAGACGG