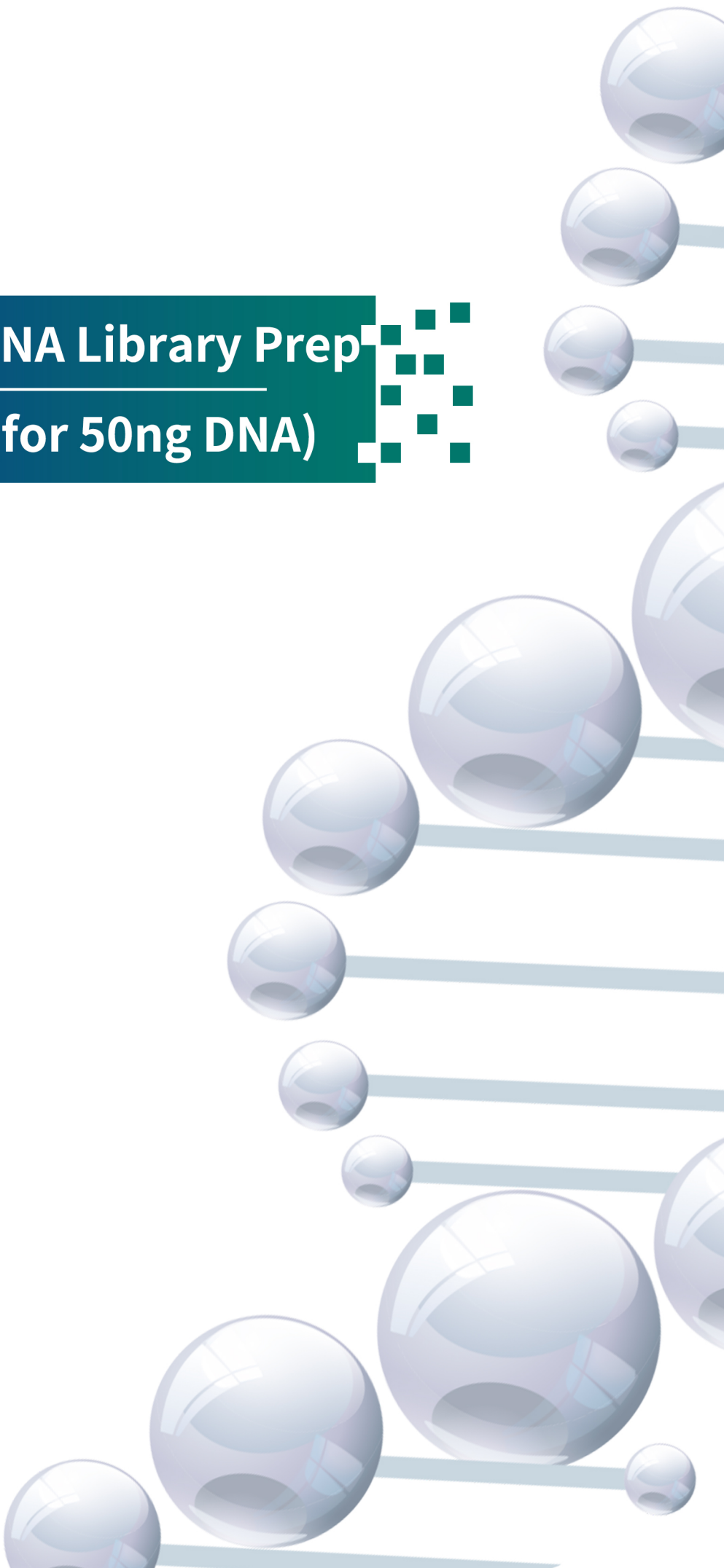




# MagicSeq Tn5 DNA Library Prep

## Kit for Illumina(for 50ng DNA)

Magicbio # M314



## 产品简介

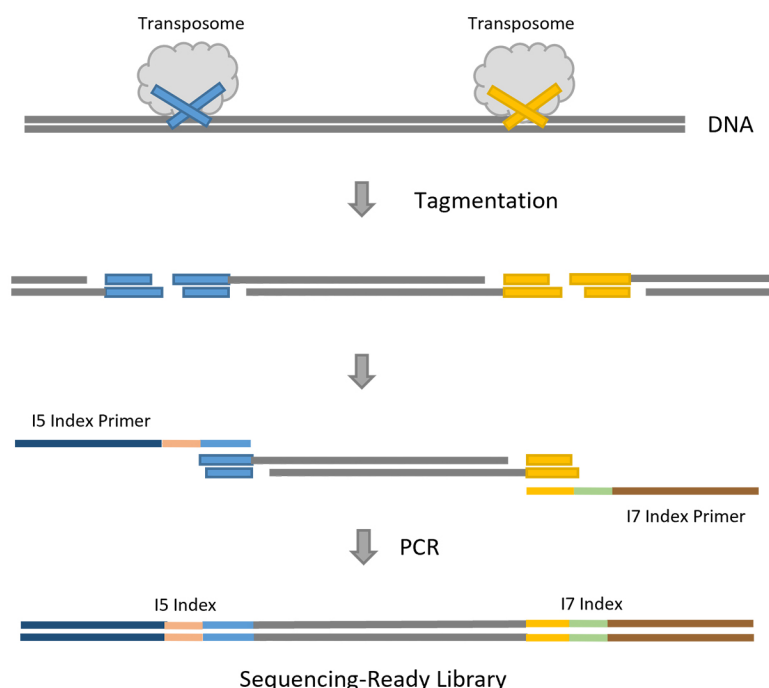
MagicSeq Tn5 DNA Library Prep Kit for Illumina是针对Illumina测序平台开发的DNA文库构建试剂盒。试剂盒极大的简化了DNA小片段文库构建过程，使用一步简单的酶促反应替代了传统DNA文库构建过程中的片段化、末端修复以及接头连接反应等步骤，显著缩短了文库构建的时间。仅需1.5h即可将50ng DNA构建成为高质量的DNA文库。试剂盒操作简单，避免了繁杂操作带来的误差，构建的文库均一性高。

## 试剂盒组成

| 产品成分                 | M3141 (24 rxn) | M3142 (96 rxn) |
|----------------------|----------------|----------------|
| 5×Tagment Buffer     | 96 µl          | 384 µl         |
| Tn5 Tagment Enzyme   | 120 µl         | 480 µl         |
| Stop Solution        | 120 µl         | 480 µl         |
| Tn5 PCR Master Mix   | 720 µl         | 1.5 mL x 2     |
| Tn5 Index Primer Mix | 24×5 µl        | 96×5 µl        |

保存条件 -20℃保存

## 实验原理图



## 注意事项

1. 试验前请仔细阅读本说明书，确保实验顺利完成。
2. 操作过程请注意避免核酸样品和产物之间的交叉污染。
3. 请使用无核酸酶的枪头、EP管进行试验
4. DNA浓度需使用Qubit等染料法测定，起始DNA量测定不准确，会影响文库得率；
5. 实验所用磁珠应提前30分钟自4℃环境中取出，平衡至室温。所有磁珠操作均需置于室温。
6. Stop Solution在使用前，请确保其回复室温，如有沉淀析出，请放置37℃加热混匀，使沉淀溶解。
7. 80%乙醇需现配现用，用其清洗磁珠后，需清除干净，避免对后续反应产生影响。

## 需自备材料

无水乙醇；Nuclease-Free H<sub>2</sub>O；Magic DNA Select Beads（DNA片段分选纯化磁珠）或效果相同的磁珠；200uL PCR管；1.5mL离心管；磁力架；PCR仪

## 操作步骤

### 1 样本片段化反应：

1. 在新的PCR管中冰上配制如下反应体系：

| 组份                             | 体积             |
|--------------------------------|----------------|
| DNA样品（50ng）                    | X $\mu$ L      |
| 5×Tagment Buffer               | 4 $\mu$ L      |
| Tn5 Tagment Enzyme             | 5 $\mu$ L      |
| Nuclease-Free H <sub>2</sub> O | (11-X) $\mu$ L |
| 总体积                            | 20.0 $\mu$ L   |

2. 移液器轻轻吹打20次充分混匀，55℃反应5分钟，热盖70℃；

3. 反应结束后立即加入5uL Stop Solution并且充分混匀，室温静置5min；

### 2 PCR扩增

1. 为每个样本编排不同的Index，在转座反应产物中加入以下试剂：

| 组份                   | 体积           |
|----------------------|--------------|
| 上步反应产物               | 25 $\mu$ L   |
| Tn5 PCR Master Mix   | 30 $\mu$ L   |
| Tn5 Index Primer Mix | 5 $\mu$ L    |
| 总体积                  | 60.0 $\mu$ L |

2. 充分混匀后在PCR仪中，进行如下反应：

| 温度  | 时间    | 循环数        |
|-----|-------|------------|
| 72℃ | 3min* |            |
| 95℃ | 2min  |            |
| 95℃ | 15s   | 5-9Cycles* |
| 60℃ | 30s   |            |
| 72℃ | 30s   |            |
| 72℃ | 3min  |            |

\*72℃孵育步骤用于进行链置换反应，请勿删除该步骤。

样本起始量为50ng，首次使用建议扩增反应的循环数为9，可根据实际文库产出调整。

3. 反应结束后取出，进行片段筛选。

### 3 文库片段大小筛选

磁珠用量需根据目标文库片段大小调整，具体用量参照表一：

1. 将室温放置30min后的Magic DNA Select Beads涡旋震荡混匀，吸取R1体积的Magic DNA Select Beads加入PCR产物中，移液器轻轻吹打10次充分混匀，室温放置5min；
2. 将样品管短暂离心并置于磁力架中分离磁珠和液体，待溶液澄清转移上清至干净离心管中，丢弃磁珠；
3. 向上清中加入R2体积的Magic DNA Select Beads，移液器轻轻吹打10次充分混匀，室温孵育5min；
4. 短暂离心并置于磁力架中分离磁珠和液体约5min，待溶液澄清移除上清；
5. 保持离心管始终处于磁力架上，加入200μL 80% 乙醇漂洗磁珠，室温静置30s后移除上清；
6. 重复上一步，总计漂洗两次；短暂离心，用10μL移液器吸去剩余乙醇；
7. 保持离心管始终处于磁力架上，开盖空气干燥磁珠至刚刚出现龟裂；
8. 将离心管从磁力架中取出，加入22μL Nuclease-Free H<sub>2</sub>O洗脱，涡旋振荡或使用移液器轻轻吹打充分混匀，室温静置2min；
9. 将离心管短暂离心并置于磁力架中分离磁珠和液体，待溶液澄清，吸取20μL上清至干净的0.2mL PCR管中；

表一 片段分选参照表

|           |            |            |            |
|-----------|------------|------------|------------|
| 文库平均总长度   | ~370 bp    | ~480 bp    | ~650 bp    |
| 文库平均插入长度  | ~250 bp    | ~350 bp    | ~530 bp    |
| 文库总长度分布范围 | 250~500 bp | 300~700 bp | 400~900 bp |
| 第一轮磁珠用量   | R1=42μL    | R1=36μL    | R1=30μL    |
| 第二轮磁珠用量   | R2=9μL     | R2=9μL     | R2=9μL     |

### 4 文库质检

推荐使用凝胶电泳或者Agilent生物分析仪等检测文库片段分布、使用qPCR进行浓度检测。

## 文库结构

文库结构如下：

5'-AATGATACGGCGACCACCGAGATCTACACXXXXXXXXXXTCGTCGGCAGCGTCAGATGTGTATAAGAGACAG-nnnnnnn-CTGTCTCTTATACACATCTCCGAGCCCACGAGACXXXXXXXXXXATCTCGTATGCCGTCTTCTGCTTG-3'

注：nnnnnnnn 为插入序列

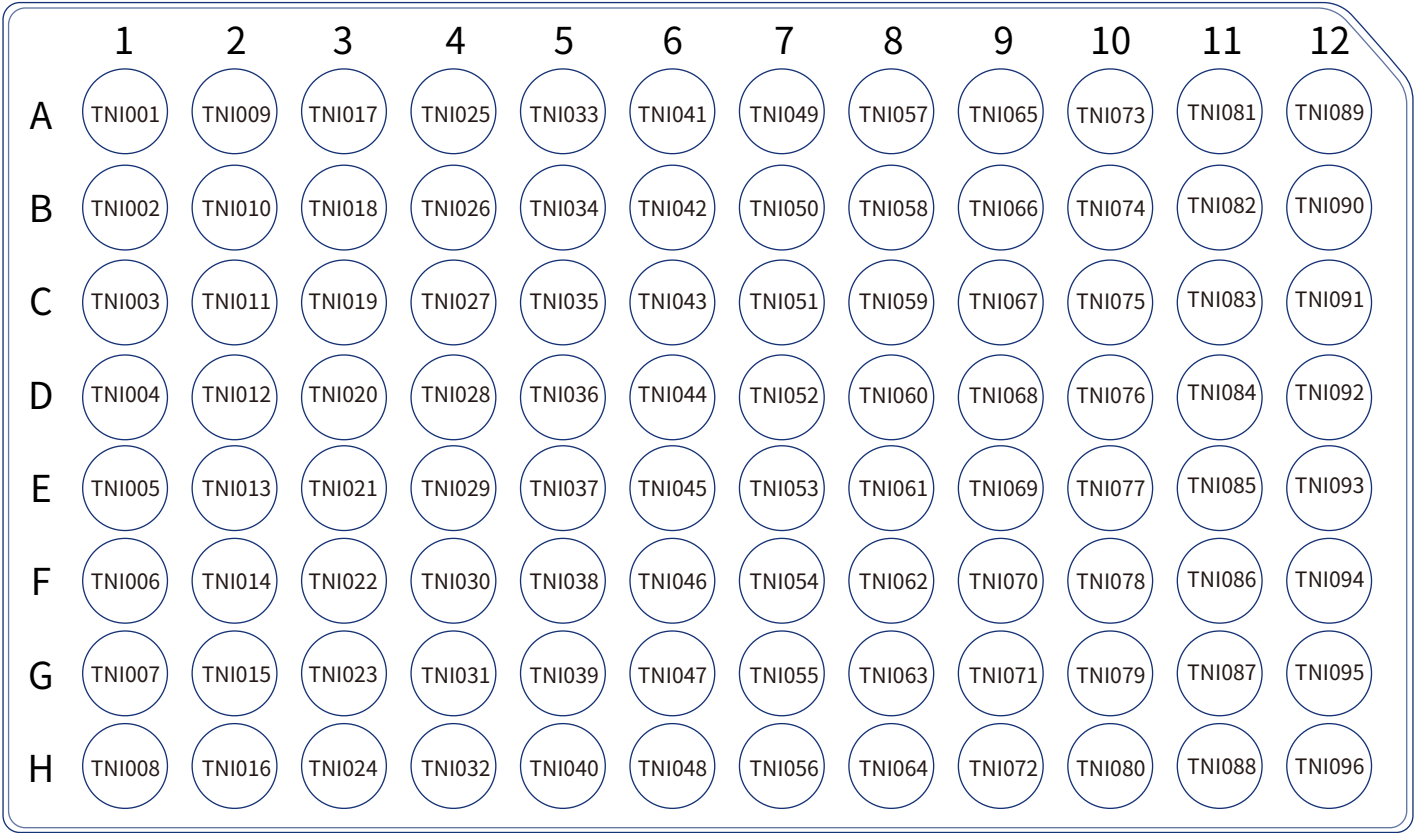
XXXXXXXXXX为index序列

Index孔位及序列信息请参考附表

# MagicSeq Tn5 DNA Library Prep Kit Index 序列表

## Set1

96孔板 Index分布图



Index序列

| Index 名称 | i7 Index   | i5 Bases for Sample Sheet NovaSeq 6000 with v1.0 reagent kits, MiSeq, HiSeq 2000/2500, NextSeq 2000 (Sample Sheet v2) | i5 Bases for Sample Sheet iSeq, NovaSeq 6000 with v1.5 reagent kits, MiniSeq, NextSeq 500/550, HiSeq 3000/4000/X, NextSeq 2000 (Sample Sheet v1) | Index 名称 | i7 Index   | i5 Bases for Sample Sheet NovaSeq 6000 with v1.0 reagent kits, MiSeq, HiSeq 2000/2500, NextSeq 2000 (Sample Sheet v2) | i5 Bases for Sample Sheet iSeq, NovaSeq 6000 with v1.5 reagent kits, MiniSeq, NextSeq 500/550, HiSeq 3000/4000/X, NextSeq 2000 (Sample Sheet v1) |
|----------|------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| TNI001   | GAAGTCAGCG | TCGTGGAGCG                                                                                                            | CGCTCCACGA                                                                                                                                       | TNI018   | CGTCTCATAT | CTACAAGATA                                                                                                            | TATCTTGTAG                                                                                                                                       |
| TNI002   | GAAGTCAGCG | CTACAAGATA                                                                                                            | TATCTTGTAG                                                                                                                                       | TNI019   | CGTCTCATAT | TATAGTAGCT                                                                                                            | AGCTACTATA                                                                                                                                       |
| TNI003   | GAAGTCAGCG | TATAGTAGCT                                                                                                            | AGCTACTATA                                                                                                                                       | TNI020   | CGTCTCATAT | TGCCTGGTGG                                                                                                            | CCACCAGGCA                                                                                                                                       |
| TNI004   | GAAGTCAGCG | TGCCTGGTGG                                                                                                            | CCACCAGGCA                                                                                                                                       | TNI021   | CGTCTCATAT | ACATTATCCT                                                                                                            | AGGATAATGT                                                                                                                                       |
| TNI005   | GAAGTCAGCG | ACATTATCCT                                                                                                            | AGGATAATGT                                                                                                                                       | TNI022   | CGTCTCATAT | GTCCACTTGT                                                                                                            | ACAAGTGGAC                                                                                                                                       |
| TNI006   | GAAGTCAGCG | GTCCACTTGT                                                                                                            | ACAAGTGGAC                                                                                                                                       | TNI023   | CGTCTCATAT | TGGAACAGTA                                                                                                            | TACTGTTCCA                                                                                                                                       |
| TNI007   | GAAGTCAGCG | TGGAACAGTA                                                                                                            | TACTGTTCCA                                                                                                                                       | TNI024   | CGTCTCATAT | CCTTGTTAAT                                                                                                            | ATTAACAAGG                                                                                                                                       |
| TNI008   | GAAGTCAGCG | CCTTGTTAAT                                                                                                            | ATTAACAAGG                                                                                                                                       | TNI025   | ATTCCATAAG | TCGTGGAGCG                                                                                                            | CGCTCCACGA                                                                                                                                       |
| TNI009   | AGGTCAGATA | TCGTGGAGCG                                                                                                            | CGCTCCACGA                                                                                                                                       | TNI026   | ATTCCATAAG | CTACAAGATA                                                                                                            | TATCTTGTAG                                                                                                                                       |
| TNI010   | AGGTCAGATA | CTACAAGATA                                                                                                            | TATCTTGTAG                                                                                                                                       | TNI027   | ATTCCATAAG | TATAGTAGCT                                                                                                            | AGCTACTATA                                                                                                                                       |
| TNI011   | AGGTCAGATA | TATAGTAGCT                                                                                                            | AGCTACTATA                                                                                                                                       | TNI028   | ATTCCATAAG | TGCCTGGTGG                                                                                                            | CCACCAGGCA                                                                                                                                       |
| TNI012   | AGGTCAGATA | TGCCTGGTGG                                                                                                            | CCACCAGGCA                                                                                                                                       | TNI029   | ATTCCATAAG | ACATTATCCT                                                                                                            | AGGATAATGT                                                                                                                                       |
| TNI013   | AGGTCAGATA | ACATTATCCT                                                                                                            | AGGATAATGT                                                                                                                                       | TNI030   | ATTCCATAAG | GTCCACTTGT                                                                                                            | ACAAGTGGAC                                                                                                                                       |
| TNI014   | AGGTCAGATA | GTCCACTTGT                                                                                                            | ACAAGTGGAC                                                                                                                                       | TNI031   | ATTCCATAAG | TGGAACAGTA                                                                                                            | TACTGTTCCA                                                                                                                                       |
| TNI015   | AGGTCAGATA | TGGAACAGTA                                                                                                            | TACTGTTCCA                                                                                                                                       | TNI032   | ATTCCATAAG | CCTTGTTAAT                                                                                                            | ATTAACAAGG                                                                                                                                       |
| TNI016   | AGGTCAGATA | CCTTGTTAAT                                                                                                            | ATTAACAAGG                                                                                                                                       | TNI033   | GACGAGATTA | TCGTGGAGCG                                                                                                            | CGCTCCACGA                                                                                                                                       |
| TNI017   | CGTCTCATAT | TCGTGGAGCG                                                                                                            | CGCTCCACGA                                                                                                                                       | TNI034   | GACGAGATTA | CTACAAGATA                                                                                                            | TATCTTGTAG                                                                                                                                       |

## Set1

### Index序列

| Index 名称 | i7 Index   | i5 Bases for Sample Sheet NovaSeq 6000 with v1.0 reagent kits, MiSeq, HiSeq 2000/2500, NextSeq 2000 (Sample Sheet v2) | i5 Bases for Sample Sheet iSeq, NovaSeq 6000 with v1.5 reagent kits, MiniSeq, NextSeq 500/550, HiSeq 3000/4000/X, NextSeq 2000 (Sample Sheet v1) | Index 名称 | i7 Index   | i5 Bases for Sample Sheet NovaSeq 6000 with v1.0 reagent kits, MiSeq, HiSeq 2000/2500, NextSeq 2000 (Sample Sheet v2) | i5 Bases for Sample Sheet iSeq, NovaSeq 6000 with v1.5 reagent kits, MiniSeq, NextSeq 500/550, HiSeq 3000/4000/X, NextSeq 2000 (Sample Sheet v1) |
|----------|------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| TNI035   | GACGAGATTA | TATAGTAGCT                                                                                                            | AGCTACTATA                                                                                                                                       | TNI066   | GACTGAGTAG | CTACAAGATA                                                                                                            | TATCTTGTAG                                                                                                                                       |
| TNI036   | GACGAGATTA | TGCCTGGTGG                                                                                                            | CCACCAGGCA                                                                                                                                       | TNI067   | GACTGAGTAG | TATAGTAGCT                                                                                                            | AGCTACTATA                                                                                                                                       |
| TNI037   | GACGAGATTA | ACATTATCCT                                                                                                            | AGGATAATGT                                                                                                                                       | TNI068   | GACTGAGTAG | TGCCTGGTGG                                                                                                            | CCACCAGGCA                                                                                                                                       |
| TNI038   | GACGAGATTA | GTCCACTTGT                                                                                                            | ACAAGTGGAC                                                                                                                                       | TNI069   | GACTGAGTAG | ACATTATCCT                                                                                                            | AGGATAATGT                                                                                                                                       |
| TNI039   | GACGAGATTA | TGGAACAGTA                                                                                                            | TACTGTTCCA                                                                                                                                       | TNI070   | GACTGAGTAG | GTCCACTTGT                                                                                                            | ACAAGTGGAC                                                                                                                                       |
| TNI040   | GACGAGATTA | CCTTGTTAAT                                                                                                            | ATTAACAAGG                                                                                                                                       | TNI071   | GACTGAGTAG | TGGAACAGTA                                                                                                            | TACTGTTCCA                                                                                                                                       |
| TNI041   | AACATCGCGC | TCGTGGAGCG                                                                                                            | CGCTCCACGA                                                                                                                                       | TNI072   | GACTGAGTAG | CCTTGTTAAT                                                                                                            | ATTAACAAGG                                                                                                                                       |
| TNI042   | AACATCGCGC | CTACAAGATA                                                                                                            | TATCTTGTAG                                                                                                                                       | TNI073   | AGTCAGACGA | TCGTGGAGCG                                                                                                            | CGCTCCACGA                                                                                                                                       |
| TNI043   | AACATCGCGC | TATAGTAGCT                                                                                                            | AGCTACTATA                                                                                                                                       | TNI074   | AGTCAGACGA | CTACAAGATA                                                                                                            | TATCTTGTAG                                                                                                                                       |
| TNI044   | AACATCGCGC | TGCCTGGTGG                                                                                                            | CCACCAGGCA                                                                                                                                       | TNI075   | AGTCAGACGA | TATAGTAGCT                                                                                                            | AGCTACTATA                                                                                                                                       |
| TNI045   | AACATCGCGC | ACATTATCCT                                                                                                            | AGGATAATGT                                                                                                                                       | TNI076   | AGTCAGACGA | TGCCTGGTGG                                                                                                            | CCACCAGGCA                                                                                                                                       |
| TNI046   | AACATCGCGC | GTCCACTTGT                                                                                                            | ACAAGTGGAC                                                                                                                                       | TNI077   | AGTCAGACGA | ACATTATCCT                                                                                                            | AGGATAATGT                                                                                                                                       |
| TNI047   | AACATCGCGC | TGGAACAGTA                                                                                                            | TACTGTTCCA                                                                                                                                       | TNI078   | AGTCAGACGA | GTCCACTTGT                                                                                                            | ACAAGTGGAC                                                                                                                                       |
| TNI048   | AACATCGCGC | CCTTGTTAAT                                                                                                            | ATTAACAAGG                                                                                                                                       | TNI079   | AGTCAGACGA | TGGAACAGTA                                                                                                            | TACTGTTCCA                                                                                                                                       |
| TNI049   | CTAGTGCTCT | TCGTGGAGCG                                                                                                            | CGCTCCACGA                                                                                                                                       | TNI080   | AGTCAGACGA | CCTTGTTAAT                                                                                                            | ATTAACAAGG                                                                                                                                       |
| TNI050   | CTAGTGCTCT | CTACAAGATA                                                                                                            | TATCTTGTAG                                                                                                                                       | TNI081   | CCGTATGTTC | TCGTGGAGCG                                                                                                            | CGCTCCACGA                                                                                                                                       |
| TNI051   | CTAGTGCTCT | TATAGTAGCT                                                                                                            | AGCTACTATA                                                                                                                                       | TNI082   | CCGTATGTTC | CTACAAGATA                                                                                                            | TATCTTGTAG                                                                                                                                       |
| TNI052   | CTAGTGCTCT | TGCCTGGTGG                                                                                                            | CCACCAGGCA                                                                                                                                       | TNI083   | CCGTATGTTC | TATAGTAGCT                                                                                                            | AGCTACTATA                                                                                                                                       |
| TNI053   | CTAGTGCTCT | ACATTATCCT                                                                                                            | AGGATAATGT                                                                                                                                       | TNI084   | CCGTATGTTC | TGCCTGGTGG                                                                                                            | CCACCAGGCA                                                                                                                                       |
| TNI054   | CTAGTGCTCT | GTCCACTTGT                                                                                                            | ACAAGTGGAC                                                                                                                                       | TNI085   | CCGTATGTTC | ACATTATCCT                                                                                                            | AGGATAATGT                                                                                                                                       |
| TNI055   | CTAGTGCTCT | TGGAACAGTA                                                                                                            | TACTGTTCCA                                                                                                                                       | TNI086   | CCGTATGTTC | GTCCACTTGT                                                                                                            | ACAAGTGGAC                                                                                                                                       |
| TNI056   | CTAGTGCTCT | CCTTGTTAAT                                                                                                            | ATTAACAAGG                                                                                                                                       | TNI087   | CCGTATGTTC | TGGAACAGTA                                                                                                            | TACTGTTCCA                                                                                                                                       |
| TNI057   | GATCAAGGCA | TCGTGGAGCG                                                                                                            | CGCTCCACGA                                                                                                                                       | TNI088   | CCGTATGTTC | CCTTGTTAAT                                                                                                            | ATTAACAAGG                                                                                                                                       |
| TNI058   | GATCAAGGCA | CTACAAGATA                                                                                                            | TATCTTGTAG                                                                                                                                       | TNI089   | GAGTCATAGG | TCGTGGAGCG                                                                                                            | CGCTCCACGA                                                                                                                                       |
| TNI059   | GATCAAGGCA | TATAGTAGCT                                                                                                            | AGCTACTATA                                                                                                                                       | TNI090   | GAGTCATAGG | CTACAAGATA                                                                                                            | TATCTTGTAG                                                                                                                                       |
| TNI060   | GATCAAGGCA | TGCCTGGTGG                                                                                                            | CCACCAGGCA                                                                                                                                       | TNI091   | GAGTCATAGG | TATAGTAGCT                                                                                                            | AGCTACTATA                                                                                                                                       |
| TNI061   | GATCAAGGCA | ACATTATCCT                                                                                                            | AGGATAATGT                                                                                                                                       | TNI092   | GAGTCATAGG | TGCCTGGTGG                                                                                                            | CCACCAGGCA                                                                                                                                       |
| TNI062   | GATCAAGGCA | GTCCACTTGT                                                                                                            | ACAAGTGGAC                                                                                                                                       | TNI093   | GAGTCATAGG | ACATTATCCT                                                                                                            | AGGATAATGT                                                                                                                                       |
| TNI063   | GATCAAGGCA | TGGAACAGTA                                                                                                            | TACTGTTCCA                                                                                                                                       | TNI094   | GAGTCATAGG | GTCCACTTGT                                                                                                            | ACAAGTGGAC                                                                                                                                       |
| TNI064   | GATCAAGGCA | CCTTGTTAAT                                                                                                            | ATTAACAAGG                                                                                                                                       | TNI095   | GAGTCATAGG | TGGAACAGTA                                                                                                            | TACTGTTCCA                                                                                                                                       |
| TNI065   | GACTGAGTAG | TCGTGGAGCG                                                                                                            | CGCTCCACGA                                                                                                                                       | TNI096   | GAGTCATAGG | CCTTGTTAAT                                                                                                            | ATTAACAAGG                                                                                                                                       |

## Set2

96孔板 Index分布图

|   | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | 10     | 11     | 12     |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| A | TNI097 | TNI105 | TNI113 | TNI121 | TNI129 | TNI137 | TNI145 | TNI153 | TNI161 | TNI169 | TNI177 | TNI185 |
| B | TNI098 | TNI106 | TNI114 | TNI122 | TNI130 | TNI138 | TNI146 | TNI154 | TNI162 | TNI170 | TNI178 | TNI186 |
| C | TNI099 | TNI107 | TNI115 | TNI123 | TNI131 | TNI139 | TNI147 | TNI155 | TNI163 | TNI171 | TNI179 | TNI187 |
| D | TNI100 | TNI108 | TNI116 | TNI124 | TNI132 | TNI140 | TNI148 | TNI156 | TNI164 | TNI172 | TNI180 | TNI188 |
| E | TNI101 | TNI109 | TNI117 | TNI125 | TNI133 | TNI141 | TNI149 | TNI157 | TNI165 | TNI173 | TNI181 | TNI189 |
| F | TNI102 | TNI110 | TNI118 | TNI126 | TNI134 | TNI142 | TNI150 | TNI158 | TNI166 | TNI174 | TNI182 | TNI190 |
| G | TNI103 | TNI111 | TNI119 | TNI127 | TNI135 | TNI143 | TNI151 | TNI159 | TNI167 | TNI175 | TNI183 | TNI191 |
| H | TNI104 | TNI112 | TNI120 | TNI128 | TNI136 | TNI144 | TNI152 | TNI160 | TNI168 | TNI176 | TNI184 | TNI192 |

Index序列

| Index 名称 | i7 Index   | i5 Bases for Sample Sheet<br>NovaSeq 6000 with v1.0<br>reagent kits, MiSeq, HiSeq<br>2000/2500, NextSeq 2000<br>(Sample Sheet v2) | i5 Bases for Sample Sheet<br>iSeq, NovaSeq 6000 with<br>v1.5 reagent kits, MiniSeq,<br>NextSeq 500/550, HiSeq<br>3000/4000/X, NextSeq<br>2000 (Sample Sheet v1) | Index 名称 | i7 Index   | i5 Bases for Sample Sheet<br>NovaSeq 6000 with v1.0<br>reagent kits, MiSeq, HiSeq<br>2000/2500, NextSeq 2000<br>(Sample Sheet v2) | i5 Bases for Sample Sheet<br>iSeq, NovaSeq 6000 with<br>v1.5 reagent kits, MiniSeq,<br>NextSeq 500/550, HiSeq<br>3000/4000/X, NextSeq<br>2000 (Sample Sheet v1) |
|----------|------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TNI097   | GAAGTCAGCG | GTTGATAGTG                                                                                                                        | CACTATCAAC                                                                                                                                                      | TNI114   | CGTCTCATAT | ACCAGCGACA                                                                                                                        | TGTCGCTGGT                                                                                                                                                      |
| TNI098   | GAAGTCAGCG | ACCAGCGACA                                                                                                                        | TGTCGCTGGT                                                                                                                                                      | TNI115   | CGTCTCATAT | CATACACTGT                                                                                                                        | ACAGTGTATG                                                                                                                                                      |
| TNI099   | GAAGTCAGCG | CATACACTGT                                                                                                                        | ACAGTGTATG                                                                                                                                                      | TNI116   | CGTCTCATAT | GTGTGGCGCT                                                                                                                        | AGCGCCACAC                                                                                                                                                      |
| TNI100   | GAAGTCAGCG | GTGTGGCGCT                                                                                                                        | AGCGCCACAC                                                                                                                                                      | TNI117   | CGTCTCATAT | ATCACGAAGG                                                                                                                        | CCTTCGTGAT                                                                                                                                                      |
| TNI101   | GAAGTCAGCG | ATCACGAAGG                                                                                                                        | CCTTCGTGAT                                                                                                                                                      | TNI118   | CGTCTCATAT | CGGCTCTACT                                                                                                                        | AGTAGAGCCG                                                                                                                                                      |
| TNI102   | GAAGTCAGCG | CGGCTCTACT                                                                                                                        | AGTAGAGCCG                                                                                                                                                      | TNI119   | CGTCTCATAT | GAATGCACGA                                                                                                                        | TCGTGCATTC                                                                                                                                                      |
| TNI103   | GAAGTCAGCG | GAATGCACGA                                                                                                                        | TCGTGCATTC                                                                                                                                                      | TNI120   | CGTCTCATAT | AAGACTATAG                                                                                                                        | CTATAGTCTT                                                                                                                                                      |
| TNI104   | GAAGTCAGCG | AAGACTATAG                                                                                                                        | CTATAGTCTT                                                                                                                                                      | TNI121   | ATTCCATAAG | GTTGATAGTG                                                                                                                        | CACTATCAAC                                                                                                                                                      |
| TNI105   | AGGTCAGATA | GTTGATAGTG                                                                                                                        | CACTATCAAC                                                                                                                                                      | TNI122   | ATTCCATAAG | ACCAGCGACA                                                                                                                        | TGTCGCTGGT                                                                                                                                                      |
| TNI106   | AGGTCAGATA | ACCAGCGACA                                                                                                                        | TGTCGCTGGT                                                                                                                                                      | TNI123   | ATTCCATAAG | CATACACTGT                                                                                                                        | ACAGTGTATG                                                                                                                                                      |
| TNI107   | AGGTCAGATA | CATACACTGT                                                                                                                        | ACAGTGTATG                                                                                                                                                      | TNI124   | ATTCCATAAG | GTGTGGCGCT                                                                                                                        | AGCGCCACAC                                                                                                                                                      |
| TNI108   | AGGTCAGATA | GTGTGGCGCT                                                                                                                        | AGCGCCACAC                                                                                                                                                      | TNI125   | ATTCCATAAG | ATCACGAAGG                                                                                                                        | CCTTCGTGAT                                                                                                                                                      |
| TNI109   | AGGTCAGATA | ATCACGAAGG                                                                                                                        | CCTTCGTGAT                                                                                                                                                      | TNI126   | ATTCCATAAG | CGGCTCTACT                                                                                                                        | AGTAGAGCCG                                                                                                                                                      |
| TNI110   | AGGTCAGATA | CGGCTCTACT                                                                                                                        | AGTAGAGCCG                                                                                                                                                      | TNI127   | ATTCCATAAG | GAATGCACGA                                                                                                                        | TCGTGCATTC                                                                                                                                                      |
| TNI111   | AGGTCAGATA | GAATGCACGA                                                                                                                        | TCGTGCATTC                                                                                                                                                      | TNI128   | ATTCCATAAG | AAGACTATAG                                                                                                                        | CTATAGTCTT                                                                                                                                                      |
| TNI112   | AGGTCAGATA | AAGACTATAG                                                                                                                        | CTATAGTCTT                                                                                                                                                      | TNI129   | GACGAGATTA | GTTGATAGTG                                                                                                                        | CACTATCAAC                                                                                                                                                      |
| TNI113   | CGTCTCATAT | GTTGATAGTG                                                                                                                        | CACTATCAAC                                                                                                                                                      | TNI130   | GACGAGATTA | ACCAGCGACA                                                                                                                        | TGTCGCTGGT                                                                                                                                                      |

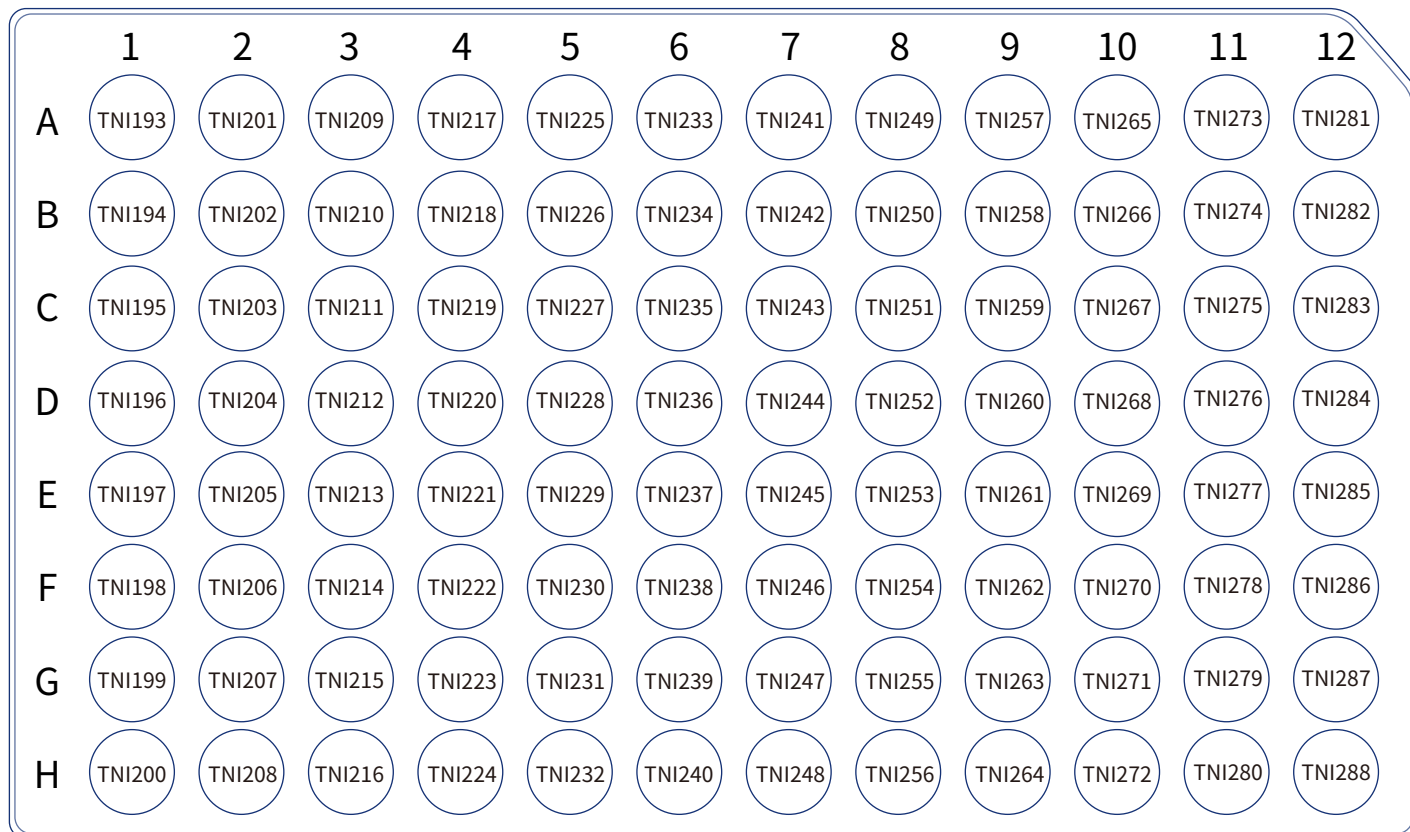
## Set2

### Index序列

| Index 名称 | i7 Index   | i5 Bases for Sample Sheet NovaSeq 6000 with v1.0 reagent kits, MiSeq, HiSeq 2000/2500, NextSeq 2000 (Sample Sheet v2) | i5 Bases for Sample Sheet iSeq, NovaSeq 6000 with v1.5 reagent kits, MiniSeq, NextSeq 500/550, HiSeq 3000/4000/X, NextSeq 2000 (Sample Sheet v1) | Index 名称 | i7 Index   | i5 Bases for Sample Sheet NovaSeq 6000 with v1.0 reagent kits, MiSeq, HiSeq 2000/2500, NextSeq 2000 (Sample Sheet v2) | i5 Bases for Sample Sheet iSeq, NovaSeq 6000 with v1.5 reagent kits, MiniSeq, NextSeq 500/550, HiSeq 3000/4000/X, NextSeq 2000 (Sample Sheet v1) |
|----------|------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| TNI131   | GACGAGATTA | CATACACTGT                                                                                                            | ACAGTGTATG                                                                                                                                       | TNI162   | GACTGAGTAG | ACCAGCGACA                                                                                                            | TGTCGCTGGT                                                                                                                                       |
| TNI132   | GACGAGATTA | GTGTGGCGCT                                                                                                            | AGCGCCACAC                                                                                                                                       | TNI163   | GACTGAGTAG | CATACACTGT                                                                                                            | ACAGTGTATG                                                                                                                                       |
| TNI133   | GACGAGATTA | ATCACGAAGG                                                                                                            | CCTTCGTGAT                                                                                                                                       | TNI164   | GACTGAGTAG | GTGTGGCGCT                                                                                                            | AGCGCCACAC                                                                                                                                       |
| TNI134   | GACGAGATTA | CGGCTCTACT                                                                                                            | AGTAGAGCCG                                                                                                                                       | TNI165   | GACTGAGTAG | ATCACGAAGG                                                                                                            | CCTTCGTGAT                                                                                                                                       |
| TNI135   | GACGAGATTA | GAATGCACGA                                                                                                            | TCGTGCATTC                                                                                                                                       | TNI166   | GACTGAGTAG | CGGCTCTACT                                                                                                            | AGTAGAGCCG                                                                                                                                       |
| TNI136   | GACGAGATTA | AAGACTATAG                                                                                                            | CTATAGTCTT                                                                                                                                       | TNI167   | GACTGAGTAG | GAATGCACGA                                                                                                            | TCGTGCATTC                                                                                                                                       |
| TNI137   | AACATCGCGC | GTTGATAGTG                                                                                                            | CACTATCAAC                                                                                                                                       | TNI168   | GACTGAGTAG | AAGACTATAG                                                                                                            | CTATAGTCTT                                                                                                                                       |
| TNI138   | AACATCGCGC | ACCAGCGACA                                                                                                            | TGTCGCTGGT                                                                                                                                       | TNI169   | AGTCAGACGA | GTTGATAGTG                                                                                                            | CACTATCAAC                                                                                                                                       |
| TNI139   | AACATCGCGC | CATACACTGT                                                                                                            | ACAGTGTATG                                                                                                                                       | TNI170   | AGTCAGACGA | ACCAGCGACA                                                                                                            | TGTCGCTGGT                                                                                                                                       |
| TNI140   | AACATCGCGC | GTGTGGCGCT                                                                                                            | AGCGCCACAC                                                                                                                                       | TNI171   | AGTCAGACGA | CATACACTGT                                                                                                            | ACAGTGTATG                                                                                                                                       |
| TNI141   | AACATCGCGC | ATCACGAAGG                                                                                                            | CCTTCGTGAT                                                                                                                                       | TNI172   | AGTCAGACGA | GTGTGGCGCT                                                                                                            | AGCGCCACAC                                                                                                                                       |
| TNI142   | AACATCGCGC | CGGCTCTACT                                                                                                            | AGTAGAGCCG                                                                                                                                       | TNI173   | AGTCAGACGA | ATCACGAAGG                                                                                                            | CCTTCGTGAT                                                                                                                                       |
| TNI143   | AACATCGCGC | GAATGCACGA                                                                                                            | TCGTGCATTC                                                                                                                                       | TNI174   | AGTCAGACGA | CGGCTCTACT                                                                                                            | AGTAGAGCCG                                                                                                                                       |
| TNI144   | AACATCGCGC | AAGACTATAG                                                                                                            | CTATAGTCTT                                                                                                                                       | TNI175   | AGTCAGACGA | GAATGCACGA                                                                                                            | TCGTGCATTC                                                                                                                                       |
| TNI145   | CTAGTGCTCT | GTTGATAGTG                                                                                                            | CACTATCAAC                                                                                                                                       | TNI176   | AGTCAGACGA | AAGACTATAG                                                                                                            | CTATAGTCTT                                                                                                                                       |
| TNI146   | CTAGTGCTCT | ACCAGCGACA                                                                                                            | TGTCGCTGGT                                                                                                                                       | TNI177   | CCGTATGTTC | GTTGATAGTG                                                                                                            | CACTATCAAC                                                                                                                                       |
| TNI147   | CTAGTGCTCT | CATACACTGT                                                                                                            | ACAGTGTATG                                                                                                                                       | TNI178   | CCGTATGTTC | ACCAGCGACA                                                                                                            | TGTCGCTGGT                                                                                                                                       |
| TNI148   | CTAGTGCTCT | GTGTGGCGCT                                                                                                            | AGCGCCACAC                                                                                                                                       | TNI179   | CCGTATGTTC | CATACACTGT                                                                                                            | ACAGTGTATG                                                                                                                                       |
| TNI149   | CTAGTGCTCT | ATCACGAAGG                                                                                                            | CCTTCGTGAT                                                                                                                                       | TNI180   | CCGTATGTTC | GTGTGGCGCT                                                                                                            | AGCGCCACAC                                                                                                                                       |
| TNI150   | CTAGTGCTCT | CGGCTCTACT                                                                                                            | AGTAGAGCCG                                                                                                                                       | TNI181   | CCGTATGTTC | ATCACGAAGG                                                                                                            | CCTTCGTGAT                                                                                                                                       |
| TNI151   | CTAGTGCTCT | GAATGCACGA                                                                                                            | TCGTGCATTC                                                                                                                                       | TNI182   | CCGTATGTTC | CGGCTCTACT                                                                                                            | AGTAGAGCCG                                                                                                                                       |
| TNI152   | CTAGTGCTCT | AAGACTATAG                                                                                                            | CTATAGTCTT                                                                                                                                       | TNI183   | CCGTATGTTC | GAATGCACGA                                                                                                            | TCGTGCATTC                                                                                                                                       |
| TNI153   | GATCAAGGCA | GTTGATAGTG                                                                                                            | CACTATCAAC                                                                                                                                       | TNI184   | CCGTATGTTC | AAGACTATAG                                                                                                            | CTATAGTCTT                                                                                                                                       |
| TNI154   | GATCAAGGCA | ACCAGCGACA                                                                                                            | TGTCGCTGGT                                                                                                                                       | TNI185   | GAGTCATAGG | GTTGATAGTG                                                                                                            | CACTATCAAC                                                                                                                                       |
| TNI155   | GATCAAGGCA | CATACACTGT                                                                                                            | ACAGTGTATG                                                                                                                                       | TNI186   | GAGTCATAGG | ACCAGCGACA                                                                                                            | TGTCGCTGGT                                                                                                                                       |
| TNI156   | GATCAAGGCA | GTGTGGCGCT                                                                                                            | AGCGCCACAC                                                                                                                                       | TNI187   | GAGTCATAGG | CATACACTGT                                                                                                            | ACAGTGTATG                                                                                                                                       |
| TNI157   | GATCAAGGCA | ATCACGAAGG                                                                                                            | CCTTCGTGAT                                                                                                                                       | TNI188   | GAGTCATAGG | GTGTGGCGCT                                                                                                            | AGCGCCACAC                                                                                                                                       |
| TNI158   | GATCAAGGCA | CGGCTCTACT                                                                                                            | AGTAGAGCCG                                                                                                                                       | TNI189   | GAGTCATAGG | ATCACGAAGG                                                                                                            | CCTTCGTGAT                                                                                                                                       |
| TNI159   | GATCAAGGCA | GAATGCACGA                                                                                                            | TCGTGCATTC                                                                                                                                       | TNI190   | GAGTCATAGG | CGGCTCTACT                                                                                                            | AGTAGAGCCG                                                                                                                                       |
| TNI160   | GATCAAGGCA | AAGACTATAG                                                                                                            | CTATAGTCTT                                                                                                                                       | TNI191   | GAGTCATAGG | GAATGCACGA                                                                                                            | TCGTGCATTC                                                                                                                                       |
| TNI161   | GACTGAGTAG | GTTGATAGTG                                                                                                            | CACTATCAAC                                                                                                                                       | TNI192   | GAGTCATAGG | AAGACTATAG                                                                                                            | CTATAGTCTT                                                                                                                                       |

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| Index 名称 | i7 Index   | i5 Bases for Sample Sheet<br>NovaSeq 6000 with v1.0<br>reagent kits, MiSeq, HiSeq<br>2000/2500, NextSeq 2000<br>(Sample Sheet v2) | i5 Bases for Sample Sheet<br>iSeq, NovaSeq 6000 with<br>v1.5 reagent kits, MiniSeq,<br>NextSeq 500/550, HiSeq<br>3000/4000/X, NextSeq<br>2000 (Sample Sheet v1) | Index 名称 | i7 Index   | i5 Bases for Sample Sheet<br>NovaSeq 6000 with v1.0<br>reagent kits, MiSeq, HiSeq<br>2000/2500, NextSeq 2000<br>(Sample Sheet v2) | i5 Bases for Sample Sheet<br>iSeq, NovaSeq 6000 with<br>v1.5 reagent kits, MiniSeq,<br>NextSeq 500/550, HiSeq<br>3000/4000/X, NextSeq<br>2000 (Sample Sheet v1) |
|----------|------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TNI193   | CTTGCCATTA | TCGTGGAGCG                                                                                                                        | CGCTCCACGA                                                                                                                                                      | TNI210   | TCCATTGCCG | CTACAAGATA                                                                                                                        | TATCTTGTAG                                                                                                                                                      |
| TNI194   | CTTGCCATTA | CTACAAGATA                                                                                                                        | TATCTTGTAG                                                                                                                                                      | TNI211   | TCCATTGCCG | TATAGTAGCT                                                                                                                        | AGCTACTATA                                                                                                                                                      |
| TNI195   | CTTGCCATTA | TATAGTAGCT                                                                                                                        | AGCTACTATA                                                                                                                                                      | TNI212   | TCCATTGCCG | TGCCTGGTGG                                                                                                                        | CCACCAGGCA                                                                                                                                                      |
| TNI196   | CTTGCCATTA | TGCCTGGTGG                                                                                                                        | CCACCAGGCA                                                                                                                                                      | TNI213   | TCCATTGCCG | ACATTATCCT                                                                                                                        | AGGATAATGT                                                                                                                                                      |
| TNI197   | CTTGCCATTA | ACATTATCCT                                                                                                                        | AGGATAATGT                                                                                                                                                      | TNI214   | TCCATTGCCG | GTCCACTTGT                                                                                                                        | ACAAGTGGAC                                                                                                                                                      |
| TNI198   | CTTGCCATTA | GTCCACTTGT                                                                                                                        | ACAAGTGGAC                                                                                                                                                      | TNI215   | TCCATTGCCG | TGGAACAGTA                                                                                                                        | TACTGTTCCA                                                                                                                                                      |
| TNI199   | CTTGCCATTA | TGGAACAGTA                                                                                                                        | TACTGTTCCA                                                                                                                                                      | TNI216   | TCCATTGCCG | CCTTGTTAAT                                                                                                                        | ATTAACAAGG                                                                                                                                                      |
| TNI200   | CTTGCCATTA | CCTTGTTAAT                                                                                                                        | ATTAACAAGG                                                                                                                                                      | TNI217   | CGGTTACGGC | TCGTGGAGCG                                                                                                                        | CGCTCCACGA                                                                                                                                                      |
| TNI201   | GAAGCGGCAC | TCGTGGAGCG                                                                                                                        | CGCTCCACGA                                                                                                                                                      | TNI218   | CGGTTACGGC | CTACAAGATA                                                                                                                        | TATCTTGTAG                                                                                                                                                      |
| TNI202   | GAAGCGGCAC | CTACAAGATA                                                                                                                        | TATCTTGTAG                                                                                                                                                      | TNI219   | CGGTTACGGC | TATAGTAGCT                                                                                                                        | AGCTACTATA                                                                                                                                                      |
| TNI203   | GAAGCGGCAC | TATAGTAGCT                                                                                                                        | AGCTACTATA                                                                                                                                                      | TNI220   | CGGTTACGGC | TGCCTGGTGG                                                                                                                        | CCACCAGGCA                                                                                                                                                      |
| TNI204   | GAAGCGGCAC | TGCCTGGTGG                                                                                                                        | CCACCAGGCA                                                                                                                                                      | TNI221   | CGGTTACGGC | ACATTATCCT                                                                                                                        | AGGATAATGT                                                                                                                                                      |
| TNI205   | GAAGCGGCAC | ACATTATCCT                                                                                                                        | AGGATAATGT                                                                                                                                                      | TNI222   | CGGTTACGGC | GTCCACTTGT                                                                                                                        | ACAAGTGGAC                                                                                                                                                      |
| TNI206   | GAAGCGGCAC | GTCCACTTGT                                                                                                                        | ACAAGTGGAC                                                                                                                                                      | TNI223   | CGGTTACGGC | TGGAACAGTA                                                                                                                        | TACTGTTCCA                                                                                                                                                      |
| TNI207   | GAAGCGGCAC | TGGAACAGTA                                                                                                                        | TACTGTTCCA                                                                                                                                                      | TNI224   | CGGTTACGGC | CCTTGTTAAT                                                                                                                        | ATTAACAAGG                                                                                                                                                      |
| TNI208   | GAAGCGGCAC | CCTTGTTAAT                                                                                                                        | ATTAACAAGG                                                                                                                                                      | TNI225   | GAGAATGGTT | TCGTGGAGCG                                                                                                                        | CGCTCCACGA                                                                                                                                                      |
| TNI209   | TCCATTGCCG | TCGTGGAGCG                                                                                                                        | CGCTCCACGA                                                                                                                                                      | TNI226   | GAGAATGGTT | CTACAAGATA                                                                                                                        | TATCTTGTAG                                                                                                                                                      |

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### Index序列

| Index 名称 | i7 Index   | i5 Bases for Sample Sheet<br>NovaSeq 6000 with v1.0<br>reagent kits, MiSeq, HiSeq<br>2000/2500, NextSeq 2000<br>(Sample Sheet v2) | i5 Bases for Sample Sheet<br>iSeq, NovaSeq 6000 with<br>v1.5 reagent kits, MiniSeq,<br>NextSeq 500/550, HiSeq<br>3000/4000/X, NextSeq<br>2000 (Sample Sheet v1) | Index 名称 | i7 Index   | i5 Bases for Sample Sheet<br>NovaSeq 6000 with v1.0<br>reagent kits, MiSeq, HiSeq<br>2000/2500, NextSeq 2000<br>(Sample Sheet v2) | i5 Bases for Sample Sheet<br>iSeq, NovaSeq 6000 with<br>v1.5 reagent kits, MiniSeq,<br>NextSeq 500/550, HiSeq<br>3000/4000/X, NextSeq<br>2000 (Sample Sheet v1) |
|----------|------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TNI227   | GAGAATGGTT | TATAGTAGCT                                                                                                                        | AGCTACTATA                                                                                                                                                      | TNI258   | ATGGTTGACT | CTACAAGATA                                                                                                                        | TATCTTGTAG                                                                                                                                                      |
| TNI228   | GAGAATGGTT | TGCCTGGTGG                                                                                                                        | CCACCAGGCA                                                                                                                                                      | TNI259   | ATGGTTGACT | TATAGTAGCT                                                                                                                        | AGCTACTATA                                                                                                                                                      |
| TNI229   | GAGAATGGTT | ACATTATCCT                                                                                                                        | AGGATAATGT                                                                                                                                                      | TNI260   | ATGGTTGACT | TGCCTGGTGG                                                                                                                        | CCACCAGGCA                                                                                                                                                      |
| TNI230   | GAGAATGGTT | GTCCACTTGT                                                                                                                        | ACAAGTGGAC                                                                                                                                                      | TNI261   | ATGGTTGACT | ACATTATCCT                                                                                                                        | AGGATAATGT                                                                                                                                                      |
| TNI231   | GAGAATGGTT | TGGAACAGTA                                                                                                                        | TACTGTTCCA                                                                                                                                                      | TNI262   | ATGGTTGACT | GTCCACTTGT                                                                                                                        | ACAAGTGGAC                                                                                                                                                      |
| TNI232   | GAGAATGGTT | CCTTGTTAAT                                                                                                                        | ATTAACAAGG                                                                                                                                                      | TNI263   | ATGGTTGACT | TGGAACAGTA                                                                                                                        | TACTGTTCCA                                                                                                                                                      |
| TNI233   | AGAGGCAACC | TCGTGGAGCG                                                                                                                        | CGCTCCACGA                                                                                                                                                      | TNI264   | ATGGTTGACT | CCTTGTTAAT                                                                                                                        | ATTAACAAGG                                                                                                                                                      |
| TNI234   | AGAGGCAACC | CTACAAGATA                                                                                                                        | TATCTTGTAG                                                                                                                                                      | TNI265   | TATTGCGCTC | TCGTGGAGCG                                                                                                                        | CGCTCCACGA                                                                                                                                                      |
| TNI235   | AGAGGCAACC | TATAGTAGCT                                                                                                                        | AGCTACTATA                                                                                                                                                      | TNI266   | TATTGCGCTC | CTACAAGATA                                                                                                                        | TATCTTGTAG                                                                                                                                                      |
| TNI236   | AGAGGCAACC | TGCCTGGTGG                                                                                                                        | CCACCAGGCA                                                                                                                                                      | TNI267   | TATTGCGCTC | TATAGTAGCT                                                                                                                        | AGCTACTATA                                                                                                                                                      |
| TNI237   | AGAGGCAACC | ACATTATCCT                                                                                                                        | AGGATAATGT                                                                                                                                                      | TNI268   | TATTGCGCTC | TGCCTGGTGG                                                                                                                        | CCACCAGGCA                                                                                                                                                      |
| TNI238   | AGAGGCAACC | GTCCACTTGT                                                                                                                        | ACAAGTGGAC                                                                                                                                                      | TNI269   | TATTGCGCTC | ACATTATCCT                                                                                                                        | AGGATAATGT                                                                                                                                                      |
| TNI239   | AGAGGCAACC | TGGAACAGTA                                                                                                                        | TACTGTTCCA                                                                                                                                                      | TNI270   | TATTGCGCTC | GTCCACTTGT                                                                                                                        | ACAAGTGGAC                                                                                                                                                      |
| TNI240   | AGAGGCAACC | CCTTGTTAAT                                                                                                                        | ATTAACAAGG                                                                                                                                                      | TNI271   | TATTGCGCTC | TGGAACAGTA                                                                                                                        | TACTGTTCCA                                                                                                                                                      |
| TNI241   | CCATCATTAG | TCGTGGAGCG                                                                                                                        | CGCTCCACGA                                                                                                                                                      | TNI272   | TATTGCGCTC | CCTTGTTAAT                                                                                                                        | ATTAACAAGG                                                                                                                                                      |
| TNI242   | CCATCATTAG | CTACAAGATA                                                                                                                        | TATCTTGTAG                                                                                                                                                      | TNI273   | ACGCCTTGTT | TCGTGGAGCG                                                                                                                        | CGCTCCACGA                                                                                                                                                      |
| TNI243   | CCATCATTAG | TATAGTAGCT                                                                                                                        | AGCTACTATA                                                                                                                                                      | TNI274   | ACGCCTTGTT | CTACAAGATA                                                                                                                        | TATCTTGTAG                                                                                                                                                      |
| TNI244   | CCATCATTAG | TGCCTGGTGG                                                                                                                        | CCACCAGGCA                                                                                                                                                      | TNI275   | ACGCCTTGTT | TATAGTAGCT                                                                                                                        | AGCTACTATA                                                                                                                                                      |
| TNI245   | CCATCATTAG | ACATTATCCT                                                                                                                        | AGGATAATGT                                                                                                                                                      | TNI276   | ACGCCTTGTT | TGCCTGGTGG                                                                                                                        | CCACCAGGCA                                                                                                                                                      |
| TNI246   | CCATCATTAG | GTCCACTTGT                                                                                                                        | ACAAGTGGAC                                                                                                                                                      | TNI277   | ACGCCTTGTT | ACATTATCCT                                                                                                                        | AGGATAATGT                                                                                                                                                      |
| TNI247   | CCATCATTAG | TGGAACAGTA                                                                                                                        | TACTGTTCCA                                                                                                                                                      | TNI278   | ACGCCTTGTT | GTCCACTTGT                                                                                                                        | ACAAGTGGAC                                                                                                                                                      |
| TNI248   | CCATCATTAG | CCTTGTTAAT                                                                                                                        | ATTAACAAGG                                                                                                                                                      | TNI279   | ACGCCTTGTT | TGGAACAGTA                                                                                                                        | TACTGTTCCA                                                                                                                                                      |
| TNI249   | GATAGGCCGA | TCGTGGAGCG                                                                                                                        | CGCTCCACGA                                                                                                                                                      | TNI280   | ACGCCTTGTT | CCTTGTTAAT                                                                                                                        | ATTAACAAGG                                                                                                                                                      |
| TNI250   | GATAGGCCGA | CTACAAGATA                                                                                                                        | TATCTTGTAG                                                                                                                                                      | TNI281   | TTCTACATAC | TCGTGGAGCG                                                                                                                        | CGCTCCACGA                                                                                                                                                      |
| TNI251   | GATAGGCCGA | TATAGTAGCT                                                                                                                        | AGCTACTATA                                                                                                                                                      | TNI282   | TTCTACATAC | CTACAAGATA                                                                                                                        | TATCTTGTAG                                                                                                                                                      |
| TNI252   | GATAGGCCGA | TGCCTGGTGG                                                                                                                        | CCACCAGGCA                                                                                                                                                      | TNI283   | TTCTACATAC | TATAGTAGCT                                                                                                                        | AGCTACTATA                                                                                                                                                      |
| TNI253   | GATAGGCCGA | ACATTATCCT                                                                                                                        | AGGATAATGT                                                                                                                                                      | TNI284   | TTCTACATAC | TGCCTGGTGG                                                                                                                        | CCACCAGGCA                                                                                                                                                      |
| TNI254   | GATAGGCCGA | GTCCACTTGT                                                                                                                        | ACAAGTGGAC                                                                                                                                                      | TNI285   | TTCTACATAC | ACATTATCCT                                                                                                                        | AGGATAATGT                                                                                                                                                      |
| TNI255   | GATAGGCCGA | TGGAACAGTA                                                                                                                        | TACTGTTCCA                                                                                                                                                      | TNI286   | TTCTACATAC | GTCCACTTGT                                                                                                                        | ACAAGTGGAC                                                                                                                                                      |
| TNI256   | GATAGGCCGA | CCTTGTTAAT                                                                                                                        | ATTAACAAGG                                                                                                                                                      | TNI287   | TTCTACATAC | TGGAACAGTA                                                                                                                        | TACTGTTCCA                                                                                                                                                      |
| TNI257   | ATGGTTGACT | TCGTGGAGCG                                                                                                                        | CGCTCCACGA                                                                                                                                                      | TNI288   | TTCTACATAC | CCTTGTTAAT                                                                                                                        | ATTAACAAGG                                                                                                                                                      |

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| A | TNI289 | TNI297 | TNI305 | TNI313 | TNI321 | TNI329 | TNI337 | TNI345 | TNI353 | TNI361 | TNI369 | TNI377 |
| B | TNI290 | TNI298 | TNI306 | TNI314 | TNI322 | TNI330 | TNI338 | TNI346 | TNI354 | TNI362 | TNI370 | TNI378 |
| C | TNI291 | TNI299 | TNI307 | TNI315 | TNI323 | TNI331 | TNI339 | TNI347 | TNI355 | TNI363 | TNI371 | TNI379 |
| D | TNI292 | TNI300 | TNI308 | TNI316 | TNI324 | TNI332 | TNI340 | TNI348 | TNI356 | TNI364 | TNI372 | TNI380 |
| E | TNI293 | TNI301 | TNI309 | TNI317 | TNI325 | TNI333 | TNI341 | TNI349 | TNI357 | TNI365 | TNI373 | TNI381 |
| F | TNI294 | TNI302 | TNI310 | TNI318 | TNI326 | TNI334 | TNI342 | TNI350 | TNI358 | TNI366 | TNI374 | TNI382 |
| G | TNI295 | TNI303 | TNI311 | TNI319 | TNI327 | TNI335 | TNI343 | TNI351 | TNI359 | TNI367 | TNI375 | TNI383 |
| H | TNI296 | TNI304 | TNI312 | TNI320 | TNI328 | TNI336 | TNI344 | TNI352 | TNI360 | TNI368 | TNI376 | TNI384 |

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| Index 名称 | i7 Index   | i5 Bases for Sample Sheet<br>NovaSeq 6000 with v1.0<br>reagent kits, MiSeq, HiSeq<br>2000/2500, NextSeq 2000<br>(Sample Sheet v2) | i5 Bases for Sample Sheet<br>iSeq, NovaSeq 6000 with<br>v1.5 reagent kits, MiniSeq,<br>NextSeq 500/550, HiSeq<br>3000/4000/X, NextSeq<br>2000 (Sample Sheet v1) | Index 名称 | i7 Index   | i5 Bases for Sample Sheet<br>NovaSeq 6000 with v1.0<br>reagent kits, MiSeq, HiSeq<br>2000/2500, NextSeq 2000<br>(Sample Sheet v2) | i5 Bases for Sample Sheet<br>iSeq, NovaSeq 6000 with<br>v1.5 reagent kits, MiniSeq,<br>NextSeq 500/550, HiSeq<br>3000/4000/X, NextSeq<br>2000 (Sample Sheet v1) |
|----------|------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TNI289   | CTTGCCATTA | GTTGATAGTG                                                                                                                        | CACTATCAAC                                                                                                                                                      | TNI306   | TCCATTGCCG | ACCAGCGACA                                                                                                                        | TGTCGCTGGT                                                                                                                                                      |
| TNI290   | CTTGCCATTA | ACCAGCGACA                                                                                                                        | TGTCGCTGGT                                                                                                                                                      | TNI307   | TCCATTGCCG | CATACACTGT                                                                                                                        | ACAGTGTATG                                                                                                                                                      |
| TNI291   | CTTGCCATTA | CATACACTGT                                                                                                                        | ACAGTGTATG                                                                                                                                                      | TNI308   | TCCATTGCCG | GTGTGGCGCT                                                                                                                        | AGCGCCACAC                                                                                                                                                      |
| TNI292   | CTTGCCATTA | GTGTGGCGCT                                                                                                                        | AGCGCCACAC                                                                                                                                                      | TNI309   | TCCATTGCCG | ATCACGAAGG                                                                                                                        | CCTTCGTGAT                                                                                                                                                      |
| TNI293   | CTTGCCATTA | ATCACGAAGG                                                                                                                        | CCTTCGTGAT                                                                                                                                                      | TNI310   | TCCATTGCCG | CGGCTCTACT                                                                                                                        | AGTAGAGCCG                                                                                                                                                      |
| TNI294   | CTTGCCATTA | CGGCTCTACT                                                                                                                        | AGTAGAGCCG                                                                                                                                                      | TNI311   | TCCATTGCCG | GAATGCACGA                                                                                                                        | TCGTGCATTC                                                                                                                                                      |
| TNI295   | CTTGCCATTA | GAATGCACGA                                                                                                                        | TCGTGCATTC                                                                                                                                                      | TNI312   | TCCATTGCCG | AAGACTATAG                                                                                                                        | CTATAGTCTT                                                                                                                                                      |
| TNI296   | CTTGCCATTA | AAGACTATAG                                                                                                                        | CTATAGTCTT                                                                                                                                                      | TNI313   | CGGTTACGGC | GTTGATAGTG                                                                                                                        | CACTATCAAC                                                                                                                                                      |
| TNI297   | GAAGCGGCAC | GTTGATAGTG                                                                                                                        | CACTATCAAC                                                                                                                                                      | TNI314   | CGGTTACGGC | ACCAGCGACA                                                                                                                        | TGTCGCTGGT                                                                                                                                                      |
| TNI298   | GAAGCGGCAC | ACCAGCGACA                                                                                                                        | TGTCGCTGGT                                                                                                                                                      | TNI315   | CGGTTACGGC | CATACACTGT                                                                                                                        | ACAGTGTATG                                                                                                                                                      |
| TNI299   | GAAGCGGCAC | CATACACTGT                                                                                                                        | ACAGTGTATG                                                                                                                                                      | TNI316   | CGGTTACGGC | GTGTGGCGCT                                                                                                                        | AGCGCCACAC                                                                                                                                                      |
| TNI300   | GAAGCGGCAC | GTGTGGCGCT                                                                                                                        | AGCGCCACAC                                                                                                                                                      | TNI317   | CGGTTACGGC | ATCACGAAGG                                                                                                                        | CCTTCGTGAT                                                                                                                                                      |
| TNI301   | GAAGCGGCAC | ATCACGAAGG                                                                                                                        | CCTTCGTGAT                                                                                                                                                      | TNI318   | CGGTTACGGC | CGGCTCTACT                                                                                                                        | AGTAGAGCCG                                                                                                                                                      |
| TNI302   | GAAGCGGCAC | CGGCTCTACT                                                                                                                        | AGTAGAGCCG                                                                                                                                                      | TNI319   | CGGTTACGGC | GAATGCACGA                                                                                                                        | TCGTGCATTC                                                                                                                                                      |
| TNI303   | GAAGCGGCAC | GAATGCACGA                                                                                                                        | TCGTGCATTC                                                                                                                                                      | TNI320   | CGGTTACGGC | AAGACTATAG                                                                                                                        | CTATAGTCTT                                                                                                                                                      |
| TNI304   | GAAGCGGCAC | AAGACTATAG                                                                                                                        | CTATAGTCTT                                                                                                                                                      | TNI321   | GAGAATGGTT | GTTGATAGTG                                                                                                                        | CACTATCAAC                                                                                                                                                      |
| TNI305   | TCCATTGCCG | GTTGATAGTG                                                                                                                        | CACTATCAAC                                                                                                                                                      | TNI322   | GAGAATGGTT | ACCAGCGACA                                                                                                                        | TGTCGCTGGT                                                                                                                                                      |

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| Index 名称 | i7 Index   | i5 Bases for Sample Sheet NovaSeq 6000 with v1.0 reagent kits, MiSeq, HiSeq 2000/2500, NextSeq 2000 (Sample Sheet v2) | i5 Bases for Sample Sheet iSeq, NovaSeq 6000 with v1.5 reagent kits, MiniSeq, NextSeq 500/550, HiSeq 3000/4000/X, NextSeq 2000 (Sample Sheet v1) | Index 名称 | i7 Index   | i5 Bases for Sample Sheet NovaSeq 6000 with v1.0 reagent kits, MiSeq, HiSeq 2000/2500, NextSeq 2000 (Sample Sheet v2) | i5 Bases for Sample Sheet iSeq, NovaSeq 6000 with v1.5 reagent kits, MiniSeq, NextSeq 500/550, HiSeq 3000/4000/X, NextSeq 2000 (Sample Sheet v1) |
|----------|------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| TNI323   | GAGAATGGTT | CATACACTGT                                                                                                            | ACAGTGTATG                                                                                                                                       | TNI354   | ATGGTTGACT | ACCAGCGACA                                                                                                            | TGTCGCTGGT                                                                                                                                       |
| TNI324   | GAGAATGGTT | GTGTGGCGCT                                                                                                            | AGCGCCACAC                                                                                                                                       | TNI355   | ATGGTTGACT | CATACACTGT                                                                                                            | ACAGTGTATG                                                                                                                                       |
| TNI325   | GAGAATGGTT | ATCACGAAGG                                                                                                            | CCTTCGTGAT                                                                                                                                       | TNI356   | ATGGTTGACT | GTGTGGCGCT                                                                                                            | AGCGCCACAC                                                                                                                                       |
| TNI326   | GAGAATGGTT | CGGCTCTACT                                                                                                            | AGTAGAGCCG                                                                                                                                       | TNI357   | ATGGTTGACT | ATCACGAAGG                                                                                                            | CCTTCGTGAT                                                                                                                                       |
| TNI327   | GAGAATGGTT | GAATGCACGA                                                                                                            | TCGTGCATTC                                                                                                                                       | TNI358   | ATGGTTGACT | CGGCTCTACT                                                                                                            | AGTAGAGCCG                                                                                                                                       |
| TNI328   | GAGAATGGTT | AAGACTATAG                                                                                                            | CTATAGTCTT                                                                                                                                       | TNI359   | ATGGTTGACT | GAATGCACGA                                                                                                            | TCGTGCATTC                                                                                                                                       |
| TNI329   | AGAGGCAACC | GTTGATAGTG                                                                                                            | CACTATCAAC                                                                                                                                       | TNI360   | ATGGTTGACT | AAGACTATAG                                                                                                            | CTATAGTCTT                                                                                                                                       |
| TNI330   | AGAGGCAACC | ACCAGCGACA                                                                                                            | TGTCGCTGGT                                                                                                                                       | TNI361   | TATTGCGCTC | GTTGATAGTG                                                                                                            | CACTATCAAC                                                                                                                                       |
| TNI331   | AGAGGCAACC | CATACACTGT                                                                                                            | ACAGTGTATG                                                                                                                                       | TNI362   | TATTGCGCTC | ACCAGCGACA                                                                                                            | TGTCGCTGGT                                                                                                                                       |
| TNI332   | AGAGGCAACC | GTGTGGCGCT                                                                                                            | AGCGCCACAC                                                                                                                                       | TNI363   | TATTGCGCTC | CATACACTGT                                                                                                            | ACAGTGTATG                                                                                                                                       |
| TNI333   | AGAGGCAACC | ATCACGAAGG                                                                                                            | CCTTCGTGAT                                                                                                                                       | TNI364   | TATTGCGCTC | GTGTGGCGCT                                                                                                            | AGCGCCACAC                                                                                                                                       |
| TNI334   | AGAGGCAACC | CGGCTCTACT                                                                                                            | AGTAGAGCCG                                                                                                                                       | TNI365   | TATTGCGCTC | ATCACGAAGG                                                                                                            | CCTTCGTGAT                                                                                                                                       |
| TNI335   | AGAGGCAACC | GAATGCACGA                                                                                                            | TCGTGCATTC                                                                                                                                       | TNI366   | TATTGCGCTC | CGGCTCTACT                                                                                                            | AGTAGAGCCG                                                                                                                                       |
| TNI336   | AGAGGCAACC | AAGACTATAG                                                                                                            | CTATAGTCTT                                                                                                                                       | TNI367   | TATTGCGCTC | GAATGCACGA                                                                                                            | TCGTGCATTC                                                                                                                                       |
| TNI337   | CCATCATTAG | GTTGATAGTG                                                                                                            | CACTATCAAC                                                                                                                                       | TNI368   | TATTGCGCTC | AAGACTATAG                                                                                                            | CTATAGTCTT                                                                                                                                       |
| TNI338   | CCATCATTAG | ACCAGCGACA                                                                                                            | TGTCGCTGGT                                                                                                                                       | TNI369   | ACGCCTTGTT | GTTGATAGTG                                                                                                            | CACTATCAAC                                                                                                                                       |
| TNI339   | CCATCATTAG | CATACACTGT                                                                                                            | ACAGTGTATG                                                                                                                                       | TNI370   | ACGCCTTGTT | ACCAGCGACA                                                                                                            | TGTCGCTGGT                                                                                                                                       |
| TNI340   | CCATCATTAG | GTGTGGCGCT                                                                                                            | AGCGCCACAC                                                                                                                                       | TNI371   | ACGCCTTGTT | CATACACTGT                                                                                                            | ACAGTGTATG                                                                                                                                       |
| TNI341   | CCATCATTAG | ATCACGAAGG                                                                                                            | CCTTCGTGAT                                                                                                                                       | TNI372   | ACGCCTTGTT | GTGTGGCGCT                                                                                                            | AGCGCCACAC                                                                                                                                       |
| TNI342   | CCATCATTAG | CGGCTCTACT                                                                                                            | AGTAGAGCCG                                                                                                                                       | TNI373   | ACGCCTTGTT | ATCACGAAGG                                                                                                            | CCTTCGTGAT                                                                                                                                       |
| TNI343   | CCATCATTAG | GAATGCACGA                                                                                                            | TCGTGCATTC                                                                                                                                       | TNI374   | ACGCCTTGTT | CGGCTCTACT                                                                                                            | AGTAGAGCCG                                                                                                                                       |
| TNI344   | CCATCATTAG | AAGACTATAG                                                                                                            | CTATAGTCTT                                                                                                                                       | TNI375   | ACGCCTTGTT | GAATGCACGA                                                                                                            | TCGTGCATTC                                                                                                                                       |
| TNI345   | GATAGGCCGA | GTTGATAGTG                                                                                                            | CACTATCAAC                                                                                                                                       | TNI376   | ACGCCTTGTT | AAGACTATAG                                                                                                            | CTATAGTCTT                                                                                                                                       |
| TNI346   | GATAGGCCGA | ACCAGCGACA                                                                                                            | TGTCGCTGGT                                                                                                                                       | TNI377   | TTCTACATAC | GTTGATAGTG                                                                                                            | CACTATCAAC                                                                                                                                       |
| TNI347   | GATAGGCCGA | CATACACTGT                                                                                                            | ACAGTGTATG                                                                                                                                       | TNI378   | TTCTACATAC | ACCAGCGACA                                                                                                            | TGTCGCTGGT                                                                                                                                       |
| TNI348   | GATAGGCCGA | GTGTGGCGCT                                                                                                            | AGCGCCACAC                                                                                                                                       | TNI379   | TTCTACATAC | CATACACTGT                                                                                                            | ACAGTGTATG                                                                                                                                       |
| TNI349   | GATAGGCCGA | ATCACGAAGG                                                                                                            | CCTTCGTGAT                                                                                                                                       | TNI380   | TTCTACATAC | GTGTGGCGCT                                                                                                            | AGCGCCACAC                                                                                                                                       |
| TNI350   | GATAGGCCGA | CGGCTCTACT                                                                                                            | AGTAGAGCCG                                                                                                                                       | TNI381   | TTCTACATAC | ATCACGAAGG                                                                                                            | CCTTCGTGAT                                                                                                                                       |
| TNI351   | GATAGGCCGA | GAATGCACGA                                                                                                            | TCGTGCATTC                                                                                                                                       | TNI382   | TTCTACATAC | CGGCTCTACT                                                                                                            | AGTAGAGCCG                                                                                                                                       |
| TNI352   | GATAGGCCGA | AAGACTATAG                                                                                                            | CTATAGTCTT                                                                                                                                       | TNI383   | TTCTACATAC | GAATGCACGA                                                                                                            | TCGTGCATTC                                                                                                                                       |
| TNI353   | ATGGTTGACT | GTTGATAGTG                                                                                                            | CACTATCAAC                                                                                                                                       | TNI384   | TTCTACATAC | AAGACTATAG                                                                                                            | CTATAGTCTT                                                                                                                                       |