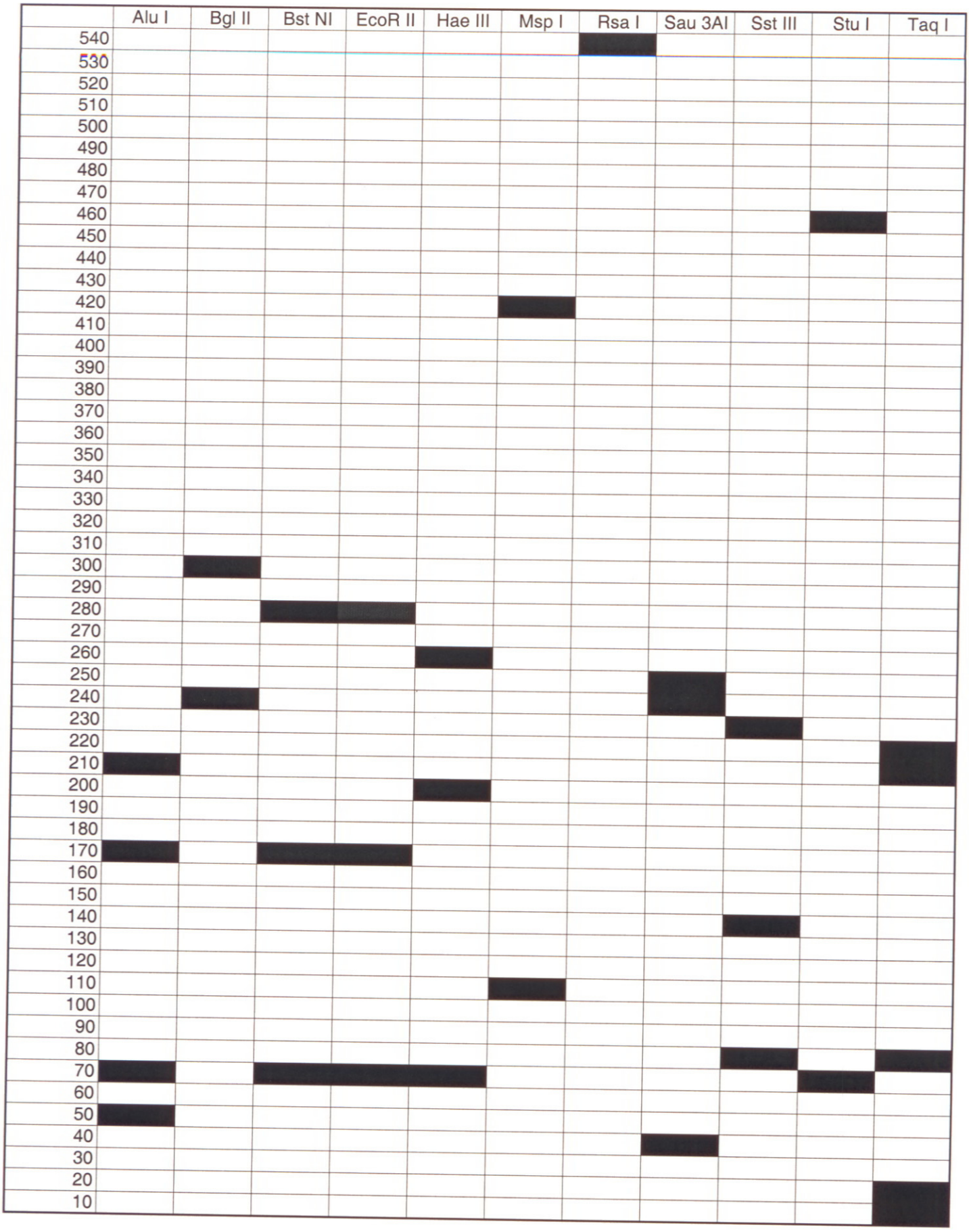
Alu I
Bgl II
Bst NI
EcoR II
Hae III
Msp I
Rsa I
Sau 3AI
Sst III
Stu I
Taq I
540
530
520
510
500
490
480
470
460
450
440
430
420
410
400
390
380
370
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230
220
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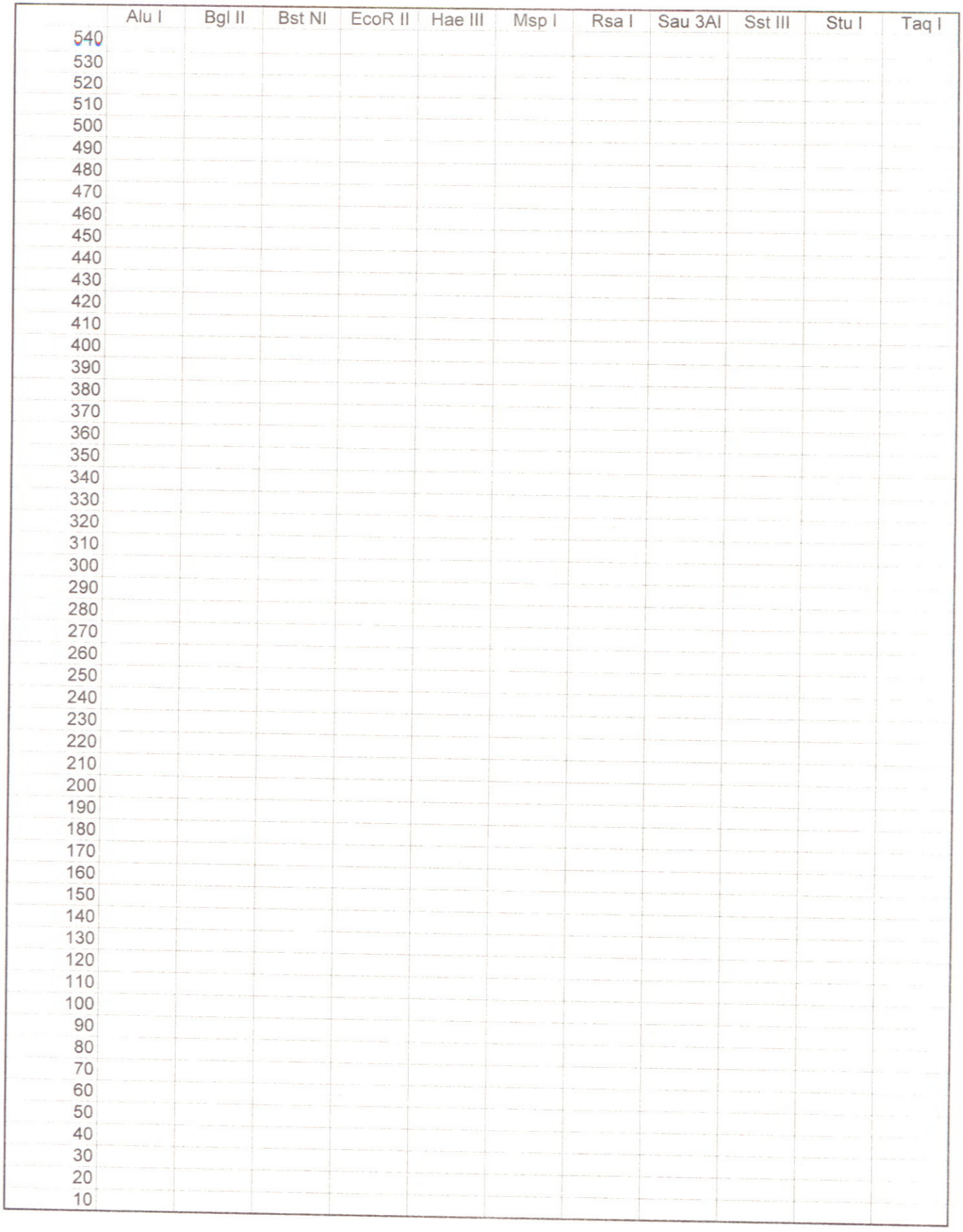
40
30
20
10


Alu I
Bgl II
Bst NI
EcoR II
Hae III
Msp I
Rsa I
Sau 3AI
Sst III
Stu I
Taq I
540
530
520
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500
490
480
470
460
450
440
430
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410
400
390
380
370
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20
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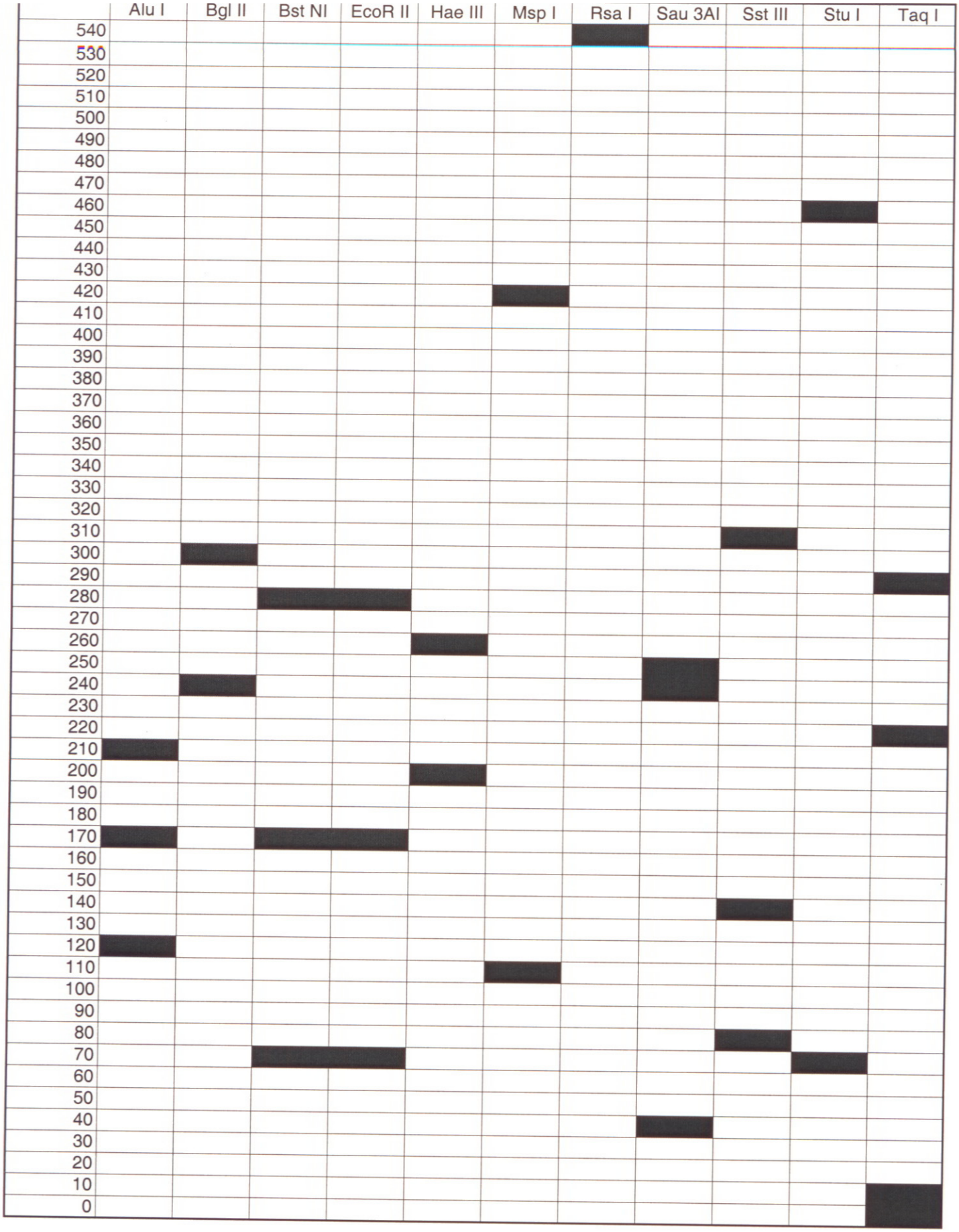
Alu I
Bgl II
Bst NI
EcoR II
Hae III
Msp I
Rsa I
Sau 3AI
Sst III
Stu I
Taq I
540
530
520
510
500
490
480
470
460
450
440
430
420
410
400
390
380
370
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220
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100
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70
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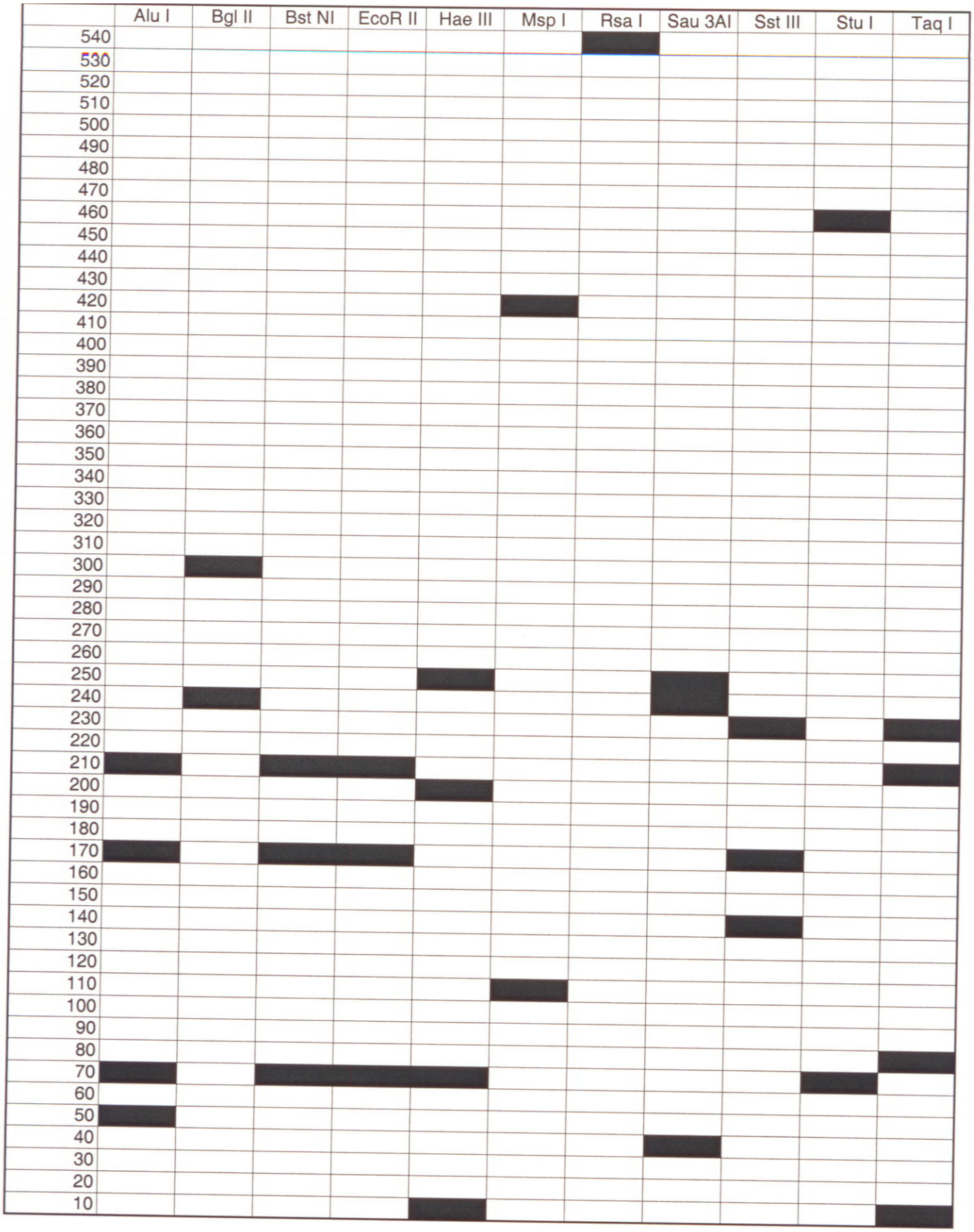
20
10
0


Alu I
Bgl II
Bst NI
EcoR II
Hae III
Msp I
Rsa I
Sau 3AI
Sst III
Stu I
Taq I
540
530
520
510
500
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480
470
460
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440
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410
400
390
380
370
360
350
340
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260
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200
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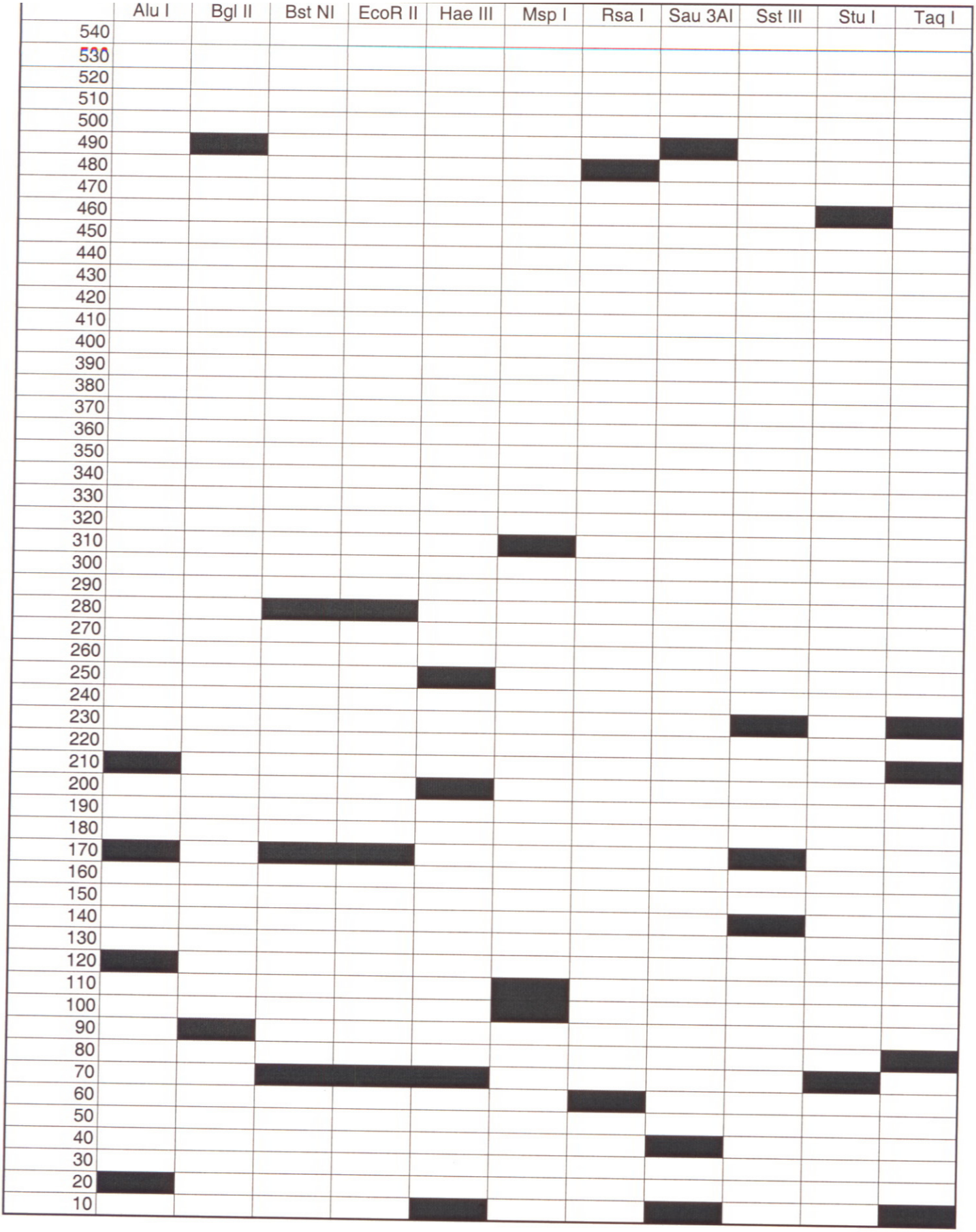
30
20
10

54/53/52


Alu I
Bgl II
Bst NI
EcoR II
Hae III
Msp I
Rsa I
Sau 3AI
Sst III
Stu I
Taq I
540
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420
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220
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150
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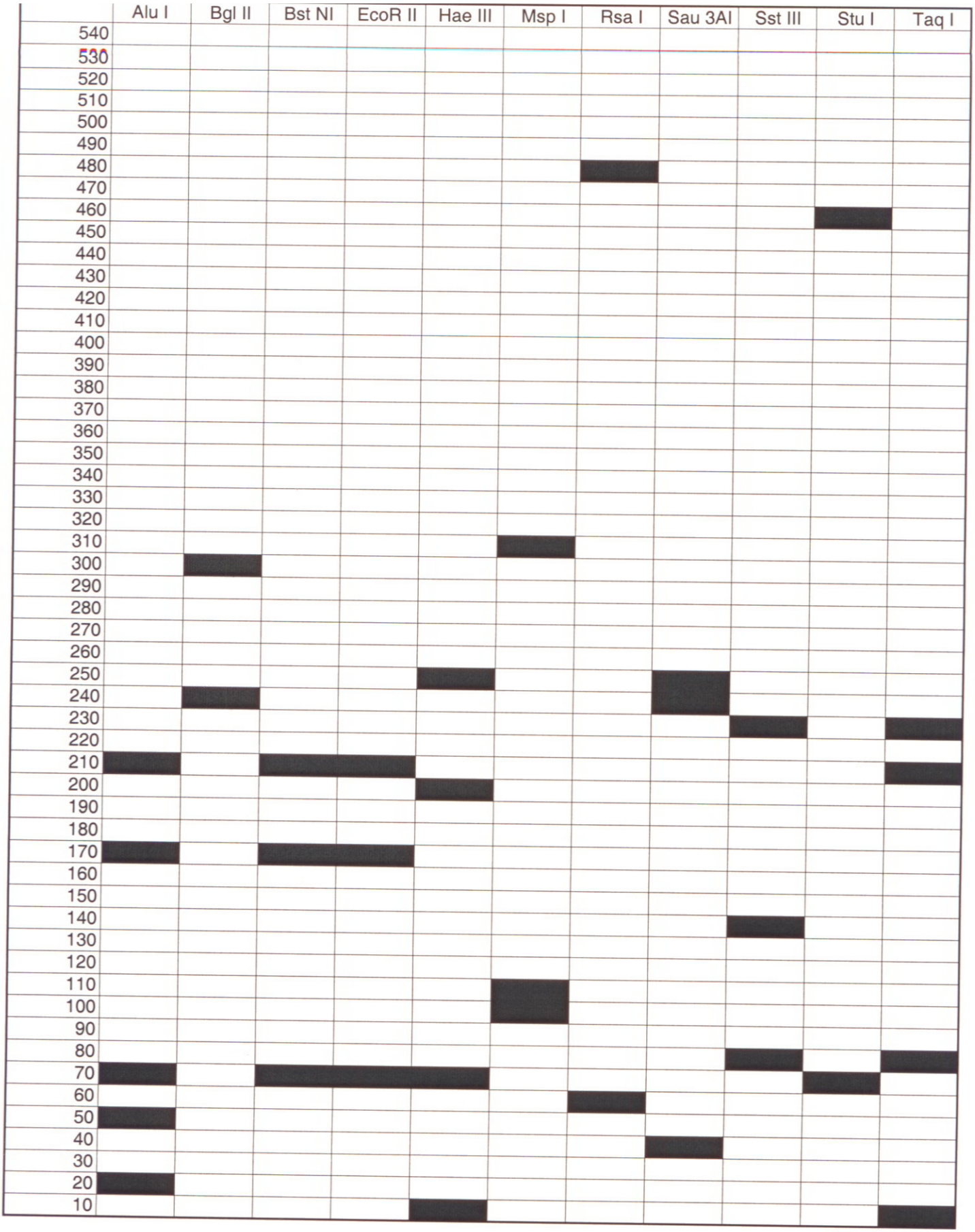
120
110
100
90
80
70
60
50
40
30
20
10


Alu I
Bgl II
Bst NI
EcoR II
Hae III
Msp I
Rsa I
Sau 3AI
Sst III
Stu I
Taq I
540
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10

File: AOTUS KVI49/50J
Mode: Normal 1 - 540
Table: DNASIS1 Style: Linear Indication Mode: Actual Cutting Site

Enzyme Name	Sequence	Count	Cutting Position		
AluI	AG!CT	3	218	388	512
BglII	A!GATCT	1	240		
BstNI	CC!WGG	2	287	464	
EcoRII	!CCWGG	2	285	462	
HaeIII	GG!CC	2	200	467	
MspI	C!CGG	1	425		
Sau3AI	!GATC	2	240	499	
SstIII	!ACGT	2	140	458	
StuI	AGG!CCT	1	467		
TaqI	T!CGA	3	297	305	318

File: AOTUS KII54J
Mode: Normal 1 - 540
Table: DNASIS1 Style: Linear Indication Mode: Actual Cutting Site

Enzyme Name	Sequence	Count	Cutting Position			
AluI	AG!CT	4	218	388	442	512
BglII	A!GATCT	1	240			
BstNI	CC!WGG	3	73	287	464	
EcoRII	!CCWGG	3	71	285	462	
HaeIII	GG!CC	3	200	451	467	
MspI	C!CGG	1	425			
Sau3AI	!GATC	2	240	499		
SstIII	!ACGT	2	140	370		
StuI	AGG!CCT	1	467			
TaqI	T!CGA	3	80	297	305	

File: AOTUS KVII51/52J
Mode: Normal 1 - 540
Table: DNASIS1 Style: Linear Indication Mode: Actual Cutting Site

Enzyme Name	Sequence	Count	Cutting Position			
AluI	AG!CT	4	218	388	442	512
BglII	A!GATCT	1	240			
BstNI	CC!WGG	2	287	464		
EcoRII	!CCWGG	2	285	462		
HaeIII	GG!CC	2	200	467		
MspI	C!CGG	1	425			
Sau3AI	!GATC	2	240	499		
SstIII	!ACGT	3	140	370	458	
StuI	AGG!CCT	1	467			
TaqI	T!CGA	4	80	297	305	318

File: AOTUS KVIII55J
Mode: Normal 1 - 540
Table: DNASIS1 Style: Linear Indication Mode: Actual Cutting Site

Enzyme Name	Sequence	Count	Cutting Position			
AluI	AG!CT	4	218	388	442	512
BglII	A!GATCT	1	240			
BstNI	CC!WGG	3	73	287	464	
EcoRII	!CCWGG	3	71	285	462	
HaeIII	GG!CC	3	200	451	467	
MspI	C!CGG	2	318	425		
RsaI	GT!AC	1	60			
Sau3AI	!GATC	2	240	499		
SstIII	!ACGT	3	140	370	458	
TaqI	T!CGA	3	80	297	305	

File: AOTUS KI54J
Mode: Normal 1 - 540
Table: DNASIS1 Style: Linear Indication Mode: Actual Cutting Site

Enzyme Name	Sequence	Count	Cutting Position		
AluI	AG!CT	3	218	388	512
BglII	A!GATCT	1	491		
BstNI	CC!WGG	2	287	464	
EcoRII	!CCWGG	2	285	462	
HaeIII	GG!CC	3	200	451	467
MspI	C!CGG	2	318	425	
RsaI	GT!AC	1	60		
Sau3AI	!GATC	2	491	499	
SstIII	!ACGT	2	140	370	
StuI	AGG!CCT	1	467		
TaqI	T!CGA	3	80	297	305

DNASIS
Restriction Search [AOTUS KVII51/52J]

File: AOTUS KVII51/52J
Mode: Normal 1 - 540
Table: DNASIS1 Style: Linear Indication Mode: Actual Cutting Site

```
            10        20        30        40        50        60

  5'  GCTCACTAGTCCTATATATTATTTCCGTAATACTTCCTACAAAATTAACCCACACCAGCA

            70        80        90       100       110       120

      CCATAAACGCCCAAGAAATCGAAATAATCTGAACTATTCTGCCCGCTATCATTCTTATTA
                        ^
                        TaqI

           130       140       150       160       170       180

      TAATTGCTCTCCCATCCCTACGTATCCTCTATATAACAGACGAATTTAATAAACCCTACC
                        ^
                        SstIII

           190       200       210       220       230       240

      TAACCCTTAAAGCAATCGGCCATCAATGATACTGAAGCTATGAATACTCAGACTATGAAG
                        ^                 ^                   ^
                        HaeIII            AluI                BglII
                                                              Sau3AI

           250       260       270       280       290       300

      ATCTAGCATTTGACTCCTATATTACACCAACCTACTTCCTTGAACCTGGCGAATTTCGAC
                                                  ^ ^         ^
                                                    BstNI     TaqI
                                                  EcoRII

           310       320       330       340       350       360

      TTCTCGAAGTAGATAATCGAACAACCCTCCCAATAGAAGCAGATATTCGTATACTAATTA
          ^         ^
          TaqI      TaqI

           370       380       390       400       410       420

      CATCACAAGACGTCTTACACTCATGAGCTGTTCCATCGTTGGGTGTTAAAACAGACGCAA
                ^                 ^
                SstIII            AluI

           430       440       450       460       470       480

      TCCCCGGACGCTTAAACCAAGCTATACTAGCCTCCATACGTCCAGGCCTATTCTACGGAC
          ^               ^                 ^   ^ ^  ^
          MspI            AluI              SstIIIBstNI
                                                EcoRII
                                                     StuI
                                                     HaeIII

           490       500       510       520       530       540

      AATGCTCAGAAATCTGCGGATCAAATCATAGCTTCATGCCAATCGTTCTAGAATTTATCT
                        ^                 ^
                        Sau3AI            AluI
```

Restriction Search [AOTUS KVIII55J]

File: AOTUS KVIII55J
Mode: Normal 1 - 540
Table: DNASIS1 Style: Linear Indication Mode: Actual Cutting Site

```
             10        20        30        40        50        60
  5'  GCTCACTAGTCCTATATATTATTTCCCTAATACTTACTACAAAATTAACCCACACCAGTA
                                                               ^
                                                              RsaI

             70        80        90       100       110       120
     CCATAAACGCCCAGGAAATCGAAATAATCTGAACTATTCTGCCCGCTATCATTCTTATTA
               ^ ^       ^
                 BstNI   TaqI
               EcoRII

            130       140       150       160       170       180
     TAATTGCTCTCCCATCCCTACGTATCCTCTATATAACAGACGAATTCAATAAACCCTACC
                       ^
                      SstIII

            190       200       210       220       230       240
     TAACCCTTAAAGCAATTGGCCACCAATGATACTGGAGCTATGAATACTCAGACTATGAAG
                       ^                 ^                   ^
                      HaeIII            AluI                BglII
                                                            Sau3AI

            250       260       270       280       290       300
     ATCTAGCATTTGATTCCTATATTACGCCAACCTACTTCCTTGAACCTGGCGAGTTTCGAC
                                                  ^ ^         ^
                                                    BstNI     TaqI
                                                  EcoRII

            310       320       330       340       350       360
     TCCTCGAAGTAGATAACCGGACAACCCTCCCAATAGAAGCAGATATTCGTATACTAATTA
         ^             ^
         TaqI          MspI

            370       380       390       400       410       420
     CATCACAAGACGTCTTACACTCATGAGCTGTTCCATCGTTAGGTGTCAAAACAGACGCAA
              ^                 ^
              SstIII            AluI

            430       440       450       460       470       480
     TCCCCGGACGCTTAAATCAAGCTATACTGGCCTCCATACGTCCTGGCCTATTCTATGGAC
         ^                 ^         ^       ^   ^ ^  ^
         MspI              AluI      HaeIII SstIIIBstNI
                                            EcoRII
                                                 HaeIII

            490       500       510       520       530       540
     AATGCTCAGAAATCTGCGGATCAAACCATAGCTTCATACCTATCGTTCTAGAATTTATCT
                       ^                 ^
                       Sau3AI            AluI
```

Restriction Search [AOTUS KI54J]

File: AOTUS KI54J
Mode: Normal 1 - 540
Table: DNASIS1 Style: Linear Indication Mode: Actual Cutting Site

```
            10        20        30        40        50        60

 5'  GCTCACTAGTCCTATATATTATTTCCCTAATACTTACTACAAAATTAACACACACTAGTA
                                                              ^
                                                             RsaI

            70        80        90       100       110       120

     CCATAAACGCCCAAGAAATCGAAATAATCTGAACTATCCTGCCCGCAATCATTCTTATTA
                       ^
                      TaqI

           130       140       150       160       170       180

     TAATTGCTCTCCCATCCCTACGTATCCTCTACATAACAGACGAATTTAATAAACCCTACC
                       ^
                     SstIII

           190       200       210       220       230       240

     TAACCCTCAAAGCAATTGGCCATCAATGATATTGAAGCTATGAATACTCAGACTATGAAG
                       ^                 ^
                     HaeIII            AluI

           250       260       270       280       290       300

     ACCTAGCATTTGATTCCTATATTACACCAACCTACTTCCTTGAACCTGGCGAATTTCGAC
                                             ^ ^           ^
                                               BstNI       TaqI
                                             EcoRII

           310       320       330       340       350       360

     TTCTCGAAGTAGATAACCGGACAACCCTCCCAATAGAAGCAGATATTCGTATACTAATTA
         ^             ^
        TaqI          MspI

           370       380       390       400       410       420

     CATCACAAGACGTCTTACACTCATGAGCTGTTCCATCATTAGGTGTTAAAACCGACGCAA
             ^                 ^
           SstIII            AluI

           430       440       450       460       470       480

     TCCCCGGACGCTTAAATCAACAGATACTGGCCTCTATGCGCCCAGGCCTATTCTACGGAC
         ^                       ^           ^ ^  ^
        MspI                   HaeIII        BstNI
                                           EcoRII
                                                StuI
                                                HaeIII

           490       500       510       520       530       540

     AATGCTCAGAGATCTGCGGATCAAATCATAGCTTCATGCCTATCGTTCTAGAATTTATCT
               ^       ^             ^
             BglII   Sau3AI        AluI
             Sau3AI
```

Restriction Search [AOTUS KVIII55J]

File: AOTUS KVIII55J
Mode: Normal 1 - 540
Table: DNASIS1 Style: Linear Indication Mode: Actual Cutting Site

```
            10        20        30        40        50        60
 5'  GCTCACTAGTCCTATATATTATTTCCCTAATACTTACTACAAAATTAACCCACACCAGTA
                                                               ^
                                                              RsaI

            70        80        90       100       110       120
     CCATAAACGCCCAGGAAATCGAAATAATCTGAACTATTCTGCCCGCTATCATTCTTATTA
              ^ ^       ^
                BstNI   TaqI
               EcoRII

           130       140       150       160       170       180
     TAATTGCTCTCCCATCCCTACGTATCCTCTATATAACAGACGAATTCAATAAACCCTACC
                       ^
                      SstIII

           190       200       210       220       230       240
     TAACCCTTAAAGCAATTGGCCACCAATGATACTGGAGCTATGAATACTCAGACTATGAAG
                       ^                 ^                   ^
                      HaeIII            AluI                BglII
                                                           Sau3AI

           250       260       270       280       290       300
     ATCTAGCATTTGATTCCTATATTACGCCAACCTACTTCCTTGAACCTGGCGAGTTTCGAC
                                                 ^ ^         ^
                                               BstNI       TaqI
                                              EcoRII

           310       320       330       340       350       360
     TCCTCGAAGTAGATAACCGGACAACCCTCCCAATAGAAGCAGATATTCGTATACTAATTA
        ^            ^
       TaqI         MspI

           370       380       390       400       410       420
     CATCACAAGACGTCTTACACTCATGAGCTGTTCCATCGTTAGGTGTCAAAACAGACGCAA
             ^                 ^
            SstIII            AluI

           430       440       450       460       470       480
     TCCCCGGACGCTTAAATCAAGCTATACTGGCCTCCATACGTCCTGGCCTATTCTATGGAC
        ^                 ^         ^     ^  ^ ^  ^
       MspI              AluI      HaeIII SstIIIBstNI
                                          EcoRII
                                               HaeIII

           490       500       510       520       530       540
     AATGCTCAGAAATCTGCGGATCAAACCATAGCTTCATACCTATCGTTCTAGAATTTATCT
                       ^                 ^
                     Sau3AI            AluI
```

DNASIS
Restriction Search [AOTUS KVII51/52J]

File: AOTUS KVII51/52J
Mode: Normal 1 - 540
Table: DNASIS1 Style: Linear Indication Mode: Actual Cutting Site

```
            10        20        30        40        50        60

 5'  GCTCACTAGTCCTATATATTATTTCCGTAATACTTCCTACAAAATTAACCCACACCAGCA


            70        80        90       100       110       120

     CCATAAACGCCCAAGAAATCGAAATAATCTGAACTATTCTGCCCGCTATCATTCTTATTA
                       ^
                       TaqI

           130       140       150       160       170       180

     TAATTGCTCTCCCATCCCTACGTATCCTCTATATAACAGACGAATTTAATAAACCCTACC
                       ^
                       SstIII

           190       200       210       220       230       240

     TAACCCTTAAAGCAATCGGCCATCAATGATACTGAAGCTATGAATACTCAGACTATGAAG
                       ^                 ^                   ^
                       HaeIII            AluI                BglII
                                                             Sau3AI

           250       260       270       280       290       300

     ATCTAGCATTTGACTCCTATATTACACCAACCTACTTCCTTGAACCTGGCGAATTTCGAC
                                                   ^ ^         ^
                                                     BstNI     TaqI
                                                   EcoRII

           310       320       330       340       350       360

     TTCTCGAAGTAGATAATCGAACAACCCTCCCAATAGAAGCAGATATTCGTATACTAATTA
         ^           ^
         TaqI        TaqI

           370       380       390       400       410       420

     CATCACAAGACGTCTTACACTCATGAGCTGTTCCATCGTTGGGTGTTAAAACAGACGCAA
             ^                 ^
             SstIII            AluI

           430       440       450       460       470       480

     TCCCCGGACGCTTAAACCAAGCTATACTAGCCTCCATACGTCCAGGCCTATTCTACGGAC
         ^                 ^                 ^   ^ ^  ^
         MspI              AluI              SstIIIBstNI
                                                 EcoRII
                                                      StuI
                                                      HaeIII

           490       500       510       520       530       540

     AATGCTCAGAAATCTGCGGATCAAATCATAGCTTCATGCCAATCGTTCTAGAATTTATCT
                       ^                 ^
                       Sau3AI            AluI
```

Restriction Search [AOTUS KII54J]

File: AOTUS KII54J
Mode: Normal 1 - 540
Table: DNASIS1 Style: Linear Indication Mode: Actual Cutting Site

```
            10        20        30        40        50        60
 5'  GCTCACTAGTCCTATATATTATCTCCCTAATACTTACTACAAAATTAACCCACACCAGCA

            70        80        90       100       110       120
     CCATAAACGCCCAGGAAATCGAAATAATCTGAACTATTCTGCCCGCTATCATTCTTATTA
               ^ ^       ^
                 BstNI   TaqI
               EcoRII

           130       140       150       160       170       180
     TAATTGCTCTCCCATCCCTACGTATCCTATATATAACAGACGAATTTAATAAACCCTACC
                       ^
                       SstIII

           190       200       210       220       230       240
     TTACCCTTAAAGCAATTGGCCATCAATGATACTGAAGCTATGAATACTCAGACTATGAAG
                       ^                 ^                   ^
                       HaeIII            AluI                BglII
                                                             Sau3AI

           250       260       270       280       290       300
     ATCTAGCATTTGATTCCTATATTACGCCAACCTACTTCCTTGAACCTGGCGAATTTCGAC
                                                 ^ ^         ^
                                                   BstNI     TaqI
                                                 EcoRII

           310       320       330       340       350       360
     TTCTCGAAGTAGATAACCGAACAACCCTCCCAATAGAAGCAGATATTCGTATACTAATTA
         ^
         TaqI

           370       380       390       400       410       420
     CATCACAAGACGTCTTACACTCATGAGCTGTTCCATCGTTAGGTGTTAAAACAGACGCAA
               ^                 ^
               SstIII            AluI

           430       440       450       460       470       480
     TCCCCGGACGCTTAAATCAAGCTATACTGGCCTCTATACGCCCAGGCCTATTCTATGGAC
         ^               ^         ^           ^ ^  ^
         MspI            AluI      HaeIII        BstNI
                                                EcoRII
                                                     StuI
                                                     HaeIII

           490       500       510       520       530       540
     AGTGCTCAGAAATCTGCGGATCAAACCATAGCTTCATACCTATCGTTCTAGAATTTATCT
                       ^                 ^
                       Sau3AI            AluI
```

File: AOTUS KVI49/50J
Mode: Normal 1 - 540
Table: DNASIS1 Style: Linear Indication Mode: Actual Cutting Site

```
            10        20        30        40        50        60
 5'  GCTCACTAGTCCTATATATTATCTCCCTAATACTTACTACAAAATTAACCCACACCAGCA

            70        80        90       100       110       120
     CCATAAACGCCCAAGAAATTGAAATAATCTGAACTATTCTGCCCGCTATCATTCTTATTA

           130       140       150       160       170       180
     TAATTGCTCTCCCATCCCTACGTATCCTCTATATAACAGACGAATTTAATAAACCCTACC
                       ^
                    SstIII

           190       200       210       220       230       240
     TAACCCTTAAAGCAATCGGCCATCAATGATACTGAAGCTATGAATACTCAGACTATGAAG
                       ^                 ^                   ^
                    HaeIII             AluI                BglII
                                                           Sau3AI

           250       260       270       280       290       300
     ATCTAGCATTTGACTCCTATATTACACCAACCTACTTCCTTGAACCTGGTGAGTTTCGAC
                                                 ^ ^         ^
                                               BstNI       TaqI
                                              EcoRII

           310       320       330       340       350       360
     TTCTCGAAGTAGATAATCGAACAACCCTCCCGATAGAAGCAGATATTCGTATACTAATTA
         ^         ^
       TaqI      TaqI

           370       380       390       400       410       420
     CATCACAAGATGTCTTACACTCATGAGCTGTTCCATCATTGGGTGTTAAAACAGACGCAA
                               ^
                             AluI

           430       440       450       460       470       480
     TCCCCGGACGCTTAAACCAAGCCATACTAGCCTCTATACGTCCAGGCCTATTCTATGGAC
         ^                               ^   ^ ^  ^
       MspI                           SstIIIBstNI
                                          EcoRII
                                               StuI
                                              HaeIII

           490       500       510       520       530       540
     AGTGCTCAGAAATCTGCGGATCAAATCATAGCTTCATGCCTATCGTTCTAGAATTTATCT
                       ^                 ^
                    Sau3AI             AluI
```