```
ENSG00000157764/1-819   1 TTCCCCCCAATCCCCTCAGCCTCGCCTGCCCCCGCCCCCGCCCCCGCCCCCGCTACCTG
ENST00000464891/1-465   1 TTCCCCCCAATCCCCTCAGCCTCGCCTGCCCCCGCCCCCGCCCCCGCCCCCGCTACCTG
ENST00000409355/1-259   ------------------------------------------------------------
ENST00000409355/1-259   ------------------------------------------------------------
ENST00000438802/1-269   ------------------------------------------------------------
ENST00000422722/1-263   ------------------------------------------------------------
ENST00000643770/1-241   ------------------------------------------------------------
ENST00000464275/1-154   ------------------------------------------------------------
ENST00000642808/1-240   ------------------------------------------------------------
ENST00000464905/1-149   ------------------------------------------------------------
ENST00000647261/1-240   ------------------------------------------------------------
ENST00000646134/1-0     ------------------------------------------------------------
ENST00000646730/1-245   ------------------------------------------------------------
ENST00000644650/1-0     ------------------------------------------------------------
ENST00000647414/1-0     ------------------------------------------------------------
ENST00000644161/1-0     ------------------------------------------------------------
ENST00000644905/1-249   ------------------------------------------------------------
ENST00000422283/1-249   ------------------------------------------------------------
ENST00000644969/1-240   ------------------------------------------------------------
ENST00000644120/1-0     ------------------------------------------------------------
ENST00000642875/1-0     ------------------------------------------------------------

                        Occupancy
```

```
ENSG00000157764/1-819  54 ACGCTGCCCCAGGCCCCCTCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCTCCTCCCCCG 106
ENST00000464891/1-465  54 ACGCTGCCCCAGGCCCCCTCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCTCCTCCCCCG 106
ENST00000409355/1-259  ------------------------------------------------------------
ENST00000409355/1-259  ------------------------------------------------------------
ENST00000438802/1-269  ------------------------------------------------------------
ENST00000422722/1-263  ------------------------------------------------------------
ENST00000643770/1-241  ------------------------------------------------------------
ENST00000464275/1-154  ------------------------------------------------------------
ENST00000642808/1-240  ------------------------------------------------------------
ENST00000464905/1-149  ------------------------------------------------------------
ENST00000647261/1-240  ------------------------------------------------------------
ENST00000646134/1-0    ------------------------------------------------------------
ENST00000646730/1-245  ------------------------------------------------------------
ENST00000644650/1-0    ------------------------------------------------------------
ENST00000647414/1-0    ------------------------------------------------------------
ENST00000644161/1-0    ------------------------------------------------------------
ENST00000644905/1-249  ------------------------------------------------------------
ENST00000422283/1-249  ------------------------------------------------------------
ENST00000644969/1-240  ------------------------------------------------------------
ENST00000644120/1-0    ------------------------------------------------------------
ENST00000642875/1-0    ------------------------------------------------------------

                       Occupancy
```

```
ENSG00000157764/1-819 107 GCCCCCCCGCCCCCCCCGCTCCTCCCCCCTCCCCCTCCCCCTCCGCCTCCCCCCAG 159
ENST00000464891/1-465 107 GCCCCCCCGCCCCCCCCGCTCCTCCCCCCTCCCCCTCCCCCTCCGCCTCCCCCCAG 159
ENST00000409355/1-259   1 ----------CCCCCCTCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC 41
ENST00000409355/1-259  ------------------------------------------------------------
ENST00000438802/1-269  ------------------------------------------------------------
ENST00000422722/1-263  ------------------------------------------------------------
ENST00000643770/1-241  ------------------------------------------------------------
ENST00000464275/1-154  ------------------------------------------------------------
ENST00000642808/1-240  ------------------------------------------------------------
ENST00000464905/1-149  ------------------------------------------------------------
ENST00000647261/1-240  ------------------------------------------------------------
ENST00000646134/1-0    ------------------------------------------------------------
ENST00000646730/1-245  ------------------------------------------------------------
ENST00000644650/1-0    ------------------------------------------------------------
ENST00000647414/1-0    ------------------------------------------------------------
ENST00000644161/1-0    ------------------------------------------------------------
ENST00000644905/1-249  ------------------------------------------------------------
ENST00000422283/1-249  ------------------------------------------------------------
ENST00000644969/1-240  ------------------------------------------------------------
ENST00000644120/1-0    ------------------------------------------------------------
ENST00000642875/1-0    ------------------------------------------------------------
```

```
ENSG00000157764/1-819 160 CTCTCCCGCCTCCCTTCCCCCTCCCCCCCCCCCACAGCCGCCCCTCCGGCCCCCGGC 212
ENST00000464891/1-465 160 CTCTCCCGCCTCCCTTCCCCCTCCCCCCCCCCCACAGCCGCCCCTCCGGCCCCCGGC 212
ENST00000409355/1-259 42 CTCTCCCGCCTCCCTTCCCCCTCCCCCCCCCCCACAGCCGCCCCTCCGGCCCCCGGC 94
ENST00000409355/1-259 1 ----------------------------CCCACAGCCGCCCCTCCGGCCCCCGGC 26
ENST00000438802/1-269 1 ----------------------------------------CCCCCTCCGGCCCCCGGC 16
ENST00000422722/1-263 1 ----------------------------------------------CCCCCCCCCGGC 10
ENST00000643770/1-241  ------------------------------------------------------------
ENST00000464275/1-154  ------------------------------------------------------------
ENST00000642808/1-240  ------------------------------------------------------------
ENST00000464905/1-149  ------------------------------------------------------------
ENST00000647261/1-240  ------------------------------------------------------------
ENST00000646134/1-0    ------------------------------------------------------------
ENST00000646730/1-245  ------------------------------------------------------------
ENST00000644650/1-0    ------------------------------------------------------------
ENST00000647414/1-0    ------------------------------------------------------------
ENST00000644161/1-0    ------------------------------------------------------------
ENST00000644905/1-249  ------------------------------------------------------------
ENST00000422283/1-249  ------------------------------------------------------------
ENST00000644969/1-240  ------------------------------------------------------------
ENST00000644120/1-0    ------------------------------------------------------------
ENST00000642875/1-0    ------------------------------------------------------------
```

```
ENSG00000157764/1-819 213 TCTCCGCTTATAACATCGCCGCCGCTCAGCCGTCGCCCGTCGTCGCCGCCGCCGCCGCAGC 265
ENST00000464891/1-465 213 TCTCCGCTTATAACATCGCCGCCGCTCAGCCGTCGCCCGTCGTCGCCGCCGCCGCCGCAGC 265
ENST00000409355/1-259 95 TCTCCGCTTATAACATCGCCGCCGCTCAGCCGTCGCCCGTCGTCGCCGCCGCCGCCGCAGC 147
ENST00000422722/1-263 27 TCTCCGCTTATAACATCGCCGCCGCTCAGCCGTCGCCCGTCGTCGCCGCCGCCGCCGCAGC 79
ENST00000643770/1-241 1 TCTCCGCTTATAACATCGCCGCCGCTCAGCCGTCGCCCGTCGTCGCCGCCGCCGCCGCAGC 63
ENST00000464275/1-154 1 TCTCCGCTTATAACATCGCCGCCGCTCAGCCGTCGCCCGTCGTCGCCGCCGCCGCCGCAGC 63
ENST00000642808/1-240  ------------------------------------------------------------
ENST00000464905/1-149  ------------------------------------------------------------
ENST00000647261/1-240  ------------------------------------------------------------
ENST00000646134/1-0    ------------------------------------------------------------
ENST00000646730/1-245  ------------------------------------------------------------
ENST00000644650/1-0    ------------------------------------------------------------
ENST00000647414/1-0    ------------------------------------------------------------
ENST00000644161/1-0    ------------------------------------------------------------
ENST00000644905/1-249  ------------------------------------------------------------
ENST00000422283/1-249  ------------------------------------------------------------
ENST00000644969/1-240  ------------------------------------------------------------
ENST00000644120/1-0    ------------------------------------------------------------
ENST00000642875/1-0    ------------------------------------------------------------
```

```
ENSG00000157764/1-819 266 CGCCCCACGCCTCTCTGTTAACGCCGCACATCGACCCCCAGGCCCCCGCCCCCGCCCCC 318
ENST00000464891/1-465 266 CGCCCCACGCCTCTCTGTTAACGCCGCACATCGACCCCCAGGCCCCCGCCCCCGCCCCC 318
ENST00000409355/1-259 148 CGCCCCACGCCTCTCTGTTAACGCCGCACATCGACCCCCAGGCCCCCGCCCCCGCCCCC 200
ENST00000422722/1-263 80 CGCCCCACGCCTCTCTGTTAACGCCGCACATCGACCCCCAGGCCCCCGCCCCCGCCCCC 142
ENST00000643770/1-241 70 CGCCCCACGCCTCTCTGTTAACGCCGCACATCGACCCCCAGGCCCCCGCCCCCGCCCCC 122
ENST00000464275/1-154 70 CGCCCCACGCCTCTCTGTTAACGCCGCACATCGACCCCCAGGCCCCCGCCCCCGCCCCC 116
ENST00000642808/1-240 44 CCCGCCCACGCCTCTGTTCACGCCGCACATCGACCCCCAGGCCCCCGCCCCCGCCCCC 96
ENST00000464905/1-149  ------------------------------------------------------------
ENST00000647261/1-240  ------------------------------------------------------------
ENST00000646134/1-0    ------------------------------------------------------------
ENST00000646730/1-245  ------------------------------------------------------------
ENST00000644650/1-0    ------------------------------------------------------------
ENST00000647414/1-0    ------------------------------------------------------------
ENST00000644161/1-0    ------------------------------------------------------------
ENST00000644905/1-249  ------------------------------------------------------------
ENST00000422283/1-249  ------------------------------------------------------------
ENST00000644969/1-240  ------------------------------------------------------------
ENST00000644120/1-0    ------------------------------------------------------------
ENST00000642875/1-0    ------------------------------------------------------------
```

```
ENSG00000157764/1-819 319 CGCCCCCCCCCGCCCTCTTCCCCTCCCCCTCCCCCGCACCCTCCCATTCCCGCACGAGCTGTCGCAA 371
ENST00000464891/1-465 319 CGCCCCCCCCCGCCCTCTTCCCCTCCCCCTCCCCCGCACCCTCCCATTCCCGCACGAGCTGTCGCAA 371
ENST00000409355/1-259 201 CGCCCCCCCCCGCCCTCTTCCCCTCCCCCTCCCCCGCACCCTCCCATTCCCGCACGAGCTGTCGCAA 253
ENST00000422722/1-263 143 CGCCCCCCCCCGCCCTCTTCCCCTCCCCCTCCCCCGCACCCTCCCATTCCCGCACGAGCTGTCGCAA 205
ENST00000643770/1-241 123 CGCCCCCCCCCGCCCTCTTCCCCTCCCCCTCCCCCGCACCCTCCCATTCCCGCACGAGCTGTCGCAA 175
ENST00000464275/1-154 169 CGCCCCCCCCCGCCCTCTTCCCCTCCCCCTCCCCCGCACCCTCCCATTCCCGCACGAGCTGTCGCAA 169
ENST00000642808/1-240 97 CGCCCCCCCCCGCCCTCTTCCCCTCCCCCTCCCCCGCACCCTCCCATTCCCGCACGAGCTGTCGCAA 149
ENST00000464905/1-149  ------------------------------------------------------------
ENST00000647261/1-240  ------------------------------------------------------------
ENST00000646134/1-0    ------------------------------------------------------------
ENST00000646730/1-245  ------------------------------------------------------------
ENST00000644650/1-0    ------------------------------------------------------------
ENST00000647414/1-0    ------------------------------------------------------------
ENST00000644161/1-0    ------------------------------------------------------------
ENST00000644905/1-249  ------------------------------------------------------------
ENST00000422283/1-249  ------------------------------------------------------------
ENST00000644969/1-240  ------------------------------------------------------------
ENST00000644120/1-0    ------------------------------------------------------------
ENST00000642875/1-0    ------------------------------------------------------------
```

```
ENSG00000157764/1-819 372 TATCAAACAAATGATTAAGTTGACACAGGAACATATACAGCGCCCTATTCGACA 424
ENST00000464891/1-465 372 TATCAAACAAATGATTAAGTTGACACAGGAACATATACAGCGCCCTATTCGACA 424
ENST00000409355/1-259 254 TATCAAACAAATGATTAAGTTGACACAGGAACATATACAGCGCCCTATTCGACA 306
ENST00000422722/1-263 186 TATCAAACAAATGATTAAGTTGACACAGGAACATATACAGCGCCCTATTCGACA 238
ENST00000643770/1-241 176 TATCAAACAAATGATTAAGTTGACACAGGAACATATACAGCGCCCTATTCGACA 228
ENST00000464275/1-154 170 TATCAAACAAATGATTAAGTTGACACAGGAACATATACAGCGCCCTATTCGACA 222
ENST00000642808/1-240 150 TATCAAACAAATGATTAAGTTGACACAGGAACATATACAGCGCCCTATTCGACA 202
ENST00000464905/1-149  ------------------------------------------------------------
ENST00000647261/1-240 147 TATCAAACAAATGATTAAGTTGACACAGGAACATATACAGCGCCCTATTCGACA 199
ENST00000646134/1-0    ------------------------------------------------------------
ENST00000646730/1-245  ------------------------------------------------------------
ENST00000644650/1-0    ------------------------------------------------------------
ENST00000647414/1-0    ------------------------------------------------------------
ENST00000644161/1-0    ------------------------------------------------------------
ENST00000644905/1-249  ------------------------------------------------------------
ENST00000422283/1-249  ------------------------------------------------------------
ENST00000644969/1-240  ------------------------------------------------------------
ENST00000644120/1-0    ------------------------------------------------------------
ENST00000642875/1-0    ------------------------------------------------------------
```

```
ENSG00000157764/1-819 153 TATCAAACAAATGATTAAGTTGACACAGGAACATATACAGCGCCCTATTCGACA 205
ENST00000464891/1-465 153 TATCAAACAAATGATTAAGTTGACACAGGAACATATACAGCGCCCTATTCGACA 205
ENST00000409355/1-259  ------------------------------------------------------------
ENST00000422722/1-263  ------------------------------------------------------------
ENST00000643770/1-241  ------------------------------------------------------------
ENST00000464275/1-154  ------------------------------------------------------------
ENST00000642808/1-240  ------------------------------------------------------------
ENST00000464905/1-149  ------------------------------------------------------------
ENST00000647261/1-240  ------------------------------------------------------------
ENST00000646134/1-0    ------------------------------------------------------------
ENST00000646730/1-245  ------------------------------------------------------------
ENST00000644650/1-0    ------------------------------------------------------------
ENST00000647414/1-0    ------------------------------------------------------------
ENST00000644161/1-0    ------------------------------------------------------------
ENST00000644905/1-249  ------------------------------------------------------------
ENST00000422283/1-249  ------------------------------------------------------------
ENST00000644969/1-240  ------------------------------------------------------------
ENST00000644120/1-0    ------------------------------------------------------------
ENST00000642875/1-0    ------------------------------------------------------------
```

```
ENSG00000157764/1-819 152 TATCAAACAAATGATTAAGTTGACACAGGAACATATACAGCGCCCTATTCGACA 204
ENST00000464891/1-465 152 TATCAAACAAATGATTAAGTTGACACAGGAACATATACAGCGCCCTATTCGACA 204
ENST00000409355/1-259  ------------------------------------------------------------
ENST00000422722/1-263  ------------------------------------------------------------
ENST00000643770/1-241  ------------------------------------------------------------
ENST00000464275/1-154  ------------------------------------------------------------
ENST00000642808/1-240  ------------------------------------------------------------
ENST00000464905/1-149  ------------------------------------------------------------
ENST00000647261/1-240  ------------------------------------------------------------
ENST00000646134/1-0    ------------------------------------------------------------
ENST00000646730/1-245  ------------------------------------------------------------
ENST00000644650/1-0    ------------------------------------------------------------
ENST00000647414/1-0    ------------------------------------------------------------
ENST00000644161/1-0    ------------------------------------------------------------
ENST00000644905/1-249  ------------------------------------------------------------
ENST00000422283/1-249  ------------------------------------------------------------
ENST00000644969/1-240  ------------------------------------------------------------
ENST00000644120/1-0    ------------------------------------------------------------
ENST00000642875/1-0    ------------------------------------------------------------
```

```
ENSG00000157764/1-819 156 TATCAAACAAATGATTAAGTTGACACAGGAACATATACAGCGCCCTATTCGACA 208
ENST00000464891/1-465 156 TATCAAACAAATGATTAAGTTGACACAGGAACATATACAGCGCCCTATTCGACA 208
ENST00000409355/1-259  ------------------------------------------------------------
ENST00000422722/1-263  ------------------------------------------------------------
ENST00000643770/1-241  ------------------------------------------------------------
ENST00000464275/1-154  ------------------------------------------------------------
ENST00000642808/1-240  ------------------------------------------------------------
ENST00000464905/1-149  ------------------------------------------------------------
ENST00000647261/1-240 147 TATCAAACAAATGATTAAGTTGACACAGGAACATATACAGCGCCCTATTCGACA 199
ENST00000646134/1-0    ------------------------------------------------------------
ENST00000646730/1-245  ------------------------------------------------------------
ENST00000644650/1-0    ------------------------------------------------------------
ENST00000647414/1-0    ------------------------------------------------------------
ENST00000644161/1-0    ------------------------------------------------------------
ENST00000644905/1-249  ------------------------------------------------------------
ENST00000422283/1-249  ------------------------------------------------------------
ENST00000644969/1-240  ------------------------------------------------------------
ENST00000644120/1-0    ------------------------------------------------------------
ENST00000642875/1-0    ------------------------------------------------------------
```

```
ENSG00000157764/1-819 425 AATTTCGCTGCGCAGCATAATCCACCATCAATATATCTCGACGTTCATTTAAATT 477
ENST00000464891/1-465 425 AATTTCGCTGCGCAGCATAATCCACCATCAATATATCTCGAC--------------- 465
ENST00000409355/1-259 307 AATTTCGCTGCGCAGCATAATCCACCATCAATATATCTCGAC--------------- 347
ENST00000422722/1-263 239 AATTTCGCTGCGCAGCATAATCCACCATCAATATATCTCGAC--------------- 279
ENST00000643770/1-241 229 AATTTCGCTGCGCAGCATAATCCACCATCAATATATCTCGAC--------------- 269
ENST00000464275/1-154 223 AATTTCGCTGCGCAGCATAATCCACCATCAATATATCTCGAC--------------- 263
ENST00000642808/1-240 203 AATTTCGCTGCGCAGCATAATCCACCATCAATATATCTCGAC--------------- 243
ENST00000464905/1-149  ---------------------------------------------TTCATTTAAATT 12
ENST00000647261/1-240 200 AATTTCGCTGCGCAGCATAATCCACCATCAATATATCTCGAC--------------- 240
ENST00000646134/1-0    ------------------------------------------------------------
ENST00000646730/1-245 206 AATTTCGCTGCGCAGCATAATCCACCATCAATATATCTCGAC--------------- 246
ENST00000644650/1-0    ------------------------------------------------------------
ENST00000647414/1-0 205 AATTTCGCTGCGCAGCATAATCCACCATCAATATATCTCGAC--------------- 245
ENST00000644161/1-0    ------------------------------------------------------------
ENST00000644905/1-249  ------------------------------------------------------------
ENST00000422283/1-249  ------------------------------------------------------------
ENST00000644969/1-240  ------------------------------------------------------------
ENST00000644120/1-0    ------------------------------------------------------------
ENST00000642875/1-0    ------------------------------------------------------------
```

```
ENSG00000157764/1-819 478 TCACAAACATATATGATCTTTTGCTATCTCCCAGCTATTCTATGACATTCAAC 530
ENST00000464891/1-465  ------------------------------------------------------------
ENST00000409355/1-259  ------------------------------------------------------------
ENST00000422722/1-263  ------------------------------------------------------------
ENST00000643770/1-241  ------------------------------------------------------------
ENST00000464275/1-154  ------------------------------------------------------------
ENST00000642808/1-240  ------------------------------------------------------------
ENST00000464905/1-149  ------------------------------------------------------------
ENST00000647261/1-240  ------------------------------------------------------------
ENST00000646134/1-0    ------------------------------------------------------------
ENST00000646730/1-245  ------------------------------------------------------------
ENST00000644650/1-0    ------------------------------------------------------------
ENST00000647414/1-0    ------------------------------------------------------------
ENST00000644161/1-0    ------------------------------------------------------------
ENST00000644905/1-249  ------------------------------------------------------------
ENST00000422283/1-249  ------------------------------------------------------------
ENST00000644969/1-240  ------------------------------------------------------------
ENST00000644120/1-0    ------------------------------------------------------------
ENST00000642875/1-0    ------------------------------------------------------------
```

```
ENSG00000157764/1-819 13 TCACAAACATATATGATCTTTTGCTATCTCCCAGCTATTCTATGACATTCAAC 65
ENST00000464891/1-465  ------------------------------------------------------------
ENST00000409355/1-259  ------------------------------------------------------------
ENST00000422722/1-263  ------------------------------------------------------------
ENST00000643770/1-241  ------------------------------------------------------------
ENST00000464275/1-154  ------------------------------------------------------------
ENST00000642808/1-240  ------------------------------------------------------------
ENST00000464905/1-149  ------------------------------------------------------------
ENST00000647261/1-240  ------------------------------------------------------------
ENST00000646134/1-0    ------------------------------------------------------------
ENST00000646730/1-245  ------------------------------------------------------------
ENST00000644650/1-0    ------------------------------------------------------------
ENST00000647414/1-0    ------------------------------------------------------------
ENST00000644161/1-0    ------------------------------------------------------------
ENST00000644905/1-249  ------------------------------------------------------------
ENST00000422283/1-249  ------------------------------------------------------------
ENST00000644969/1-240  ------------------------------------------------------------
ENST00000644120/1-0    ------------------------------------------------------------
ENST00000642875/1-0    ------------------------------------------------------------
```

```
ENSG00000157764/1-819 531 CTATACCTATCTATACTTTTTCATGTGTCTTAAACTTTTCTCCCCTTTGTTACA 583
ENST00000464891/1-465  ------------------------------------------------------------
ENST00000409355/1-259  ------------------------------------------------------------
ENST00000422722/1-263  ------------------------------------------------------------
ENST00000643770/1-241  ------------------------------------------------------------
ENST00000464275/1-154  ------------------------------------------------------------
ENST00000642808/1-240  ------------------------------------------------------------
ENST00000464905/1-149  ------------------------------------------------------------
ENST00000647261/1-240  ------------------------------------------------------------
ENST00000646134/1-0    ------------------------------------------------------------
ENST00000646730/1-245  ------------------------------------------------------------
ENST00000644650/1-0    ------------------------------------------------------------
ENST00000647414/1-0    ------------------------------------------------------------
ENST00000644161/1-0    ------------------------------------------------------------
ENST00000644905/1-249  ------------------------------------------------------------
ENST00000422283/1-249  ------------------------------------------------------------
ENST00000644969/1-240  ------------------------------------------------------------
ENST00000644120/1-0    ------------------------------------------------------------
ENST00000642875/1-0    ------------------------------------------------------------
```

```
ENSG00000157764/1-819 66 CTATACCTATCTATACTTTTTCATGTGTCTTAAACTTTTCTCCCCTTTGTTACA 118
ENST00000464891/1-465  ------------------------------------------------------------
ENST00000409355/1-259  ------------------------------------------------------------
ENST00000422722/1-263  ------------------------------------------------------------
ENST00000643770/1-241  ------------------------------------------------------------
ENST00000464275/1-154  ------------------------------------------------------------
ENST00000642808/1-240  ------------------------------------------------------------
ENST00000464905/1-149  ------------------------------------------------------------
ENST00000647261/1-240  ------------------------------------------------------------
ENST00000646134/1-0    ------------------------------------------------------------
ENST00000646730/1-245  ------------------------------------------------------------
ENST00000644650/1-0    ------------------------------------------------------------
ENST00000647414/1-0    ------------------------------------------------------------
ENST00000644161/1-0    ------------------------------------------------------------
ENST00000644905/1-249  ------------------------------------------------------------
ENST00000422283/1-249  ------------------------------------------------------------
ENST00000644969/1-240  ------------------------------------------------------------
ENST00000644120/1-0    ------------------------------------------------------------
ENST00000642875/1-0    ------------------------------------------------------------
```

```
ENSG00000157764/1-819 584 CAAAAAACAAACTCTTTGTTACACAAATTTTTCCCATATACAACGATTCCTTCCT 636
ENST00000464891/1-465  ------------------------------------------------------------
ENST00000409355/1-259  ------------------------------------------------------------
ENST00000422722/1-263  ------------------------------------------------------------
ENST00000643770/1-241  ------------------------------------------------------------
ENST00000464275/1-154  ------------------------------------------------------------
ENST00000642808/1-240  ------------------------------------------------------------
ENST00000464905/1-149  ------------------------------------------------------------
ENST00000647261/1-240  ------------------------------------------------------------
ENST00000646134/1-0    ------------------------------------------------------------
ENST00000646730/1-245  ------------------------------------------------------------
ENST00000644650/1-0    ------------------------------------------------------------
ENST00000647414/1-0    ------------------------------------------------------------
ENST00000644161/1-0    ------------------------------------------------------------
ENST00000644905/1-249  ------------------------------------------------------------
ENST00000422283/1-249  ------------------------------------------------------------
ENST00000644969/1-240  ------------------------------------------------------------
ENST00000644120/1-0    ------------------------------------------------------------
ENST00000642875/1-0    ------------------------------------------------------------
```

```
ENSG00000157764/1-819 119 CAAAAAACAAACTCTTTGTTACACAAATTTTTCCCATATACAACGATTCCTTCCT 171
ENST00000464891/1-465  ------------------------------------------------------------
ENST00000409355/1-259  ------------------------------------------------------------
ENST00000422722/1-263  ------------------------------------------------------------
ENST00000643770/1-241  ------------------------------------------------------------
ENST00000464275/1-154  ------------------------------------------------------------
ENST00000642808/1-240  ------------------------------------------------------------
ENST00000464905/1-149  ------------------------------------------------------------
ENST00000647261/1-240  ------------------------------------------------------------
ENST00000646134/1-0    ------------------------------------------------------------
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ENST00000647414/1-0    ------------------------------------------------------------
ENST00000644161/1-0    ------------------------------------------------------------
ENST00000644905/1-249  ------------------------------------------------------------
ENST00000422283/1-249  ------------------------------------------------------------
ENST00000644969/1-240  ------------------------------------------------------------
ENST00000644120/1-0    ------------------------------------------------------------
ENST00000642875/1-0    ------------------------------------------------------------
```

```
ENSG00000157764/1-819 637 CCCTCACTTTCTTCATCCATCTAAATGCCAACCTTTCAAGCCTGTCCTCCTTCC 689
ENST00000464891/1-465  ------------------------------------------------------------
ENST00000409355/1-259  ------------------------------------------------------------
ENST00000422722/1-263  ------------------------------------------------------------
ENST00000643770/1-241  ------------------------------------------------------------
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ENST00000642808/1-240  ------------------------------------------------------------
ENST00000464905/1-149  ------------------------------------------------------------
ENST00000647261/1-240  ------------------------------------------------------------
ENST00000646134/1-0    ------------------------------------------------------------
ENST00000646730/1-245  ------------------------------------------------------------
ENST00000644650/1-0    ------------------------------------------------------------
ENST00000647414/1-0    ------------------------------------------------------------
ENST00000644161/1-0    ------------------------------------------------------------
ENST00000644905/1-249  ------------------------------------------------------------
ENST00000422283/1-249  ------------------------------------------------------------
ENST00000644969/1-240  ------------------------------------------------------------
ENST00000644120/1-0    ------------------------------------------------------------
ENST00000642875/1-0    ------------------------------------------------------------
```

```
ENSG00000157764/1-819 172 CCCTCACTTTCTTCATCCATCTAAATGCCAACCTTTCAAGCCTGTCCTCCTTCC 224
ENST00000464891/1-465  ------------------------------------------------------------
ENST00000409355/1-259  ------------------------------------------------------------
ENST00000422722/1-263  ------------------------------------------------------------
ENST00000643770/1-241  ------------------------------------------------------------
ENST00000464275/1-154  ------------------------------------------------------------
ENST00000642808/1-240  ------------------------------------------------------------
ENST00000464905/1-149  ------------------------------------------------------------
ENST00000647261/1-240  ------------------------------------------------------------
ENST00000646134/1-0    ------------------------------------------------------------
ENST00000646730/1-245  ------------------------------------------------------------
ENST00000644650/1-0    ------------------------------------------------------------
ENST00000647414/1-0    ------------------------------------------------------------
ENST00000644161/1-0    ------------------------------------------------------------
ENST00000644905/1-249  ------------------------------------------------------------
ENST00000422283/1-249  ------------------------------------------------------------
ENST00000644969/1-240  ------------------------------------------------------------
ENST00000644120/1-0    ------------------------------------------------------------
ENST00000642875/1-0    ------------------------------------------------------------
```

```
ENSG00000157764/1-819 690 TCATTATTACTTTGTCTCAAGAATATTGTTTATTTCTCATGTACATCAGTTAC 742
ENST00000464891/1-465  ------------------------------------------------------------
ENST00000409355/1-259  ------------------------------------------------------------
ENST00000422722/1-263  ------------------------------------------------------------
ENST00000643770/1-241  ------------------------------------------------------------
ENST00000464275/1-154  ------------------------------------------------------------
ENST00000642808/1-240  ------------------------------------------------------------
ENST00000464905/1-149  ------------------------------------------------------------
ENST00000647261/1-240  ------------------------------------------------------------
ENST00000646134/1-0    ------------------------------------------------------------
ENST00000646730/1-245  ------------------------------------------------------------
ENST00000644650/1-0    ------------------------------------------------------------
ENST00000647414/1-0    ------------------------------------------------------------
ENST00000644161/1-0    ------------------------------------------------------------
ENST00000644905/1-249  ------------------------------------------------------------
ENST00000422283/1-249  ------------------------------------------------------------
ENST00000644969/1-240  ------------------------------------------------------------
ENST00000644120/1-0    ------------------------------------------------------------
ENST00000642875/1-0    ------------------------------------------------------------
```

```
ENSG00000157764/1-819 225 TCATTATTACTTTGTCTCAAGAATATTGTTTATTTCTCATGTACATCAGTTAC 277
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ENST00000409355/1-259  ------------------------------------------------------------
ENST00000422722/1-263  ------------------------------------------------------------
ENST00000643770/1-241  ------------------------------------------------------------
ENST00000464275/1-154  ------------------------------------------------------------
ENST00000642808/1-240  ------------------------------------------------------------
ENST00000464905/1-149  ------------------------------------------------------------
ENST00000647261/1-240  ------------------------------------------------------------
ENST00000646134/1-0    ------------------------------------------------------------
ENST00000646730/1-245  ------------------------------------------------------------
ENST00000644650/1-0    ------------------------------------------------------------
ENST00000647414/1-0    ------------------------------------------------------------
ENST00000644161/1-0    ------------------------------------------------------------
ENST00000644905/1-249  ------------------------------------------------------------
ENST00000422283/1-249  ------------------------------------------------------------
ENST00000644969/1-240  ------------------------------------------------------------
ENST00000644120/1-0    ------------------------------------------------------------
ENST00000642875/1-0    ------------------------------------------------------------
```

```
ENSG00000157764/1-819 743 ACAAATAAAAATACACCCATCCTACTCCACTGCCCAACACTAAACTCCTTCAG 795
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ENST00000409355/1-259  ------------------------------------------------------------
ENST00000422722/1-263  ------------------------------------------------------------
ENST00000643770/1-241  ------------------------------------------------------------
ENST00000464275/1-154  ------------------------------------------------------------
ENST00000642808/1-240  ------------------------------------------------------------
ENST00000464905/1-149  ------------------------------------------------------------
ENST00000647261/1-240  ------------------------------------------------------------
ENST00000646134/1-0    ------------------------------------------------------------
ENST00000646730/1-245  ------------------------------------------------------------
ENST00000644650/1-0    ------------------------------------------------------------
ENST00000647414/1-0    ------------------------------------------------------------
ENST00000644161/1-0    ------------------------------------------------------------
ENST00000644905/1-249  ------------------------------------------------------------
ENST00000422283/1-249  ------------------------------------------------------------
ENST00000644969/1-240  ------------------------------------------------------------
ENST00000644120/1-0    ------------------------------------------------------------
ENST00000642875/1-0    ------------------------------------------------------------
```

```
ENSG00000157764/1-819 278 ACAAATAAAAATACACCCATCCTACTCCACTGCCCAACACTAAACTCCTTCAG 330
ENST00000464891/1-465  ------------------------------------------------------------
ENST00000409355/1-259  ------------------------------------------------------------
ENST00000422722/1-263  ------------------------------------------------------------
ENST00000643770/1-241  ------------------------------------------------------------
ENST00000464275/1-154  ------------------------------------------------------------
ENST00000642808/1-240  ------------------------------------------------------------
ENST00000464905/1-149  ------------------------------------------------------------
ENST00000647261/1-240  ------------------------------------------------------------
ENST00000646134/1-0    ------------------------------------------------------------
ENST00000646730/1-245  ------------------------------------------------------------
ENST00000644650/1-0    ------------------------------------------------------------
ENST00000647414/1-0    ------------------------------------------------------------
ENST00000644161/1-0    ------------------------------------------------------------
ENST00000644905/1-249  ------------------------------------------------------------
ENST00000422283/1-249  ------------------------------------------------------------
ENST00000644969/1-240  ------------------------------------------------------------
ENST00000644120/1-0    ------------------------------------------------------------
ENST00000642875/1-0    ------------------------------------------------------------
```

```
ENSG00000157764/1-819 796 ACACCGCAAAGCCCATTTTAAAAT 819
ENST00000464891/1-465  ------------------------------
ENST00000409355/1-259  ------------------------------
ENST00000422722/1-263  ------------------------------
ENST00000643770/1-241  ------------------------------
ENST00000464275/1-154  ------------------------------
ENST00000642808/1-240  ------------------------------
ENST00000464905/1-149  ------------------------------
ENST00000647261/1-240  ------------------------------
ENST00000646134/1-0    ------------------------------
ENST00000646730/1-245  ------------------------------
ENST00000644650/1-0    ------------------------------
ENST00000647414/1-0    ------------------------------
ENST00000644161/1-0    ------------------------------
ENST00000644905/1-249  ------------------------------
ENST00000422283/1-249  ------------------------------
ENST00000644969/1-240  ------------------------------
ENST00000644120/1-0    ------------------------------
ENST00000642875/1-0    ------------------------------
```

```
ENST00000464891/1-465 331 ACACCGCAAAGCCCATTTTAAAAT 354
ENST00000409355/1-259  ------------------------------
ENST00000422722/1-263  ------------------------------
ENST00000643770/1-241  ------------------------------
ENST00000464275/1-154  ------------------------------
ENST00000642808/1-240  ------------------------------
ENST00000464905/1-149  ------------------------------
ENST00000647261/1-240  ------------------------------
ENST00000646134/1-0    ------------------------------
ENST00000646730/1-245  ------------------------------
ENST00000644650/1-0    ------------------------------
ENST00000647414/1-0    ------------------------------
ENST00000644161/1-0    ------------------------------
ENST00000644905/1-249  ------------------------------
ENST00000422283/1-249  ------------------------------
ENST00000644969/1-240  ------------------------------
ENST00000644120/1-0    ------------------------------
ENST00000642875/1-0    ------------------------------
```