

# Appendix

## Appendix A: Alignment of the VDR sequence covering the *BsmI*-*Apal*-*TaqI* region, amplified and sequenced for all 23 individuals.

4	29	-CTAAGCTCTGC-ITGCAGAGTGTGCAGGCGATTTCGTAGGGGGGATTCTGAGGAAGTAGATAAGC	92
9	29	-CTAAGCTCTGC-ITGCAGAGTGTGCAGGCGATTTCGTAGGGGGGATTCTGAGGAAGTAGATAAGC	92
2	77	-CTAGCTCTGCCTTGCAGAGTGTGCAGGCGATTTCGTAGGGGGGATTCTGAGGAAGTAGATAAGC	140
1	45	CCCTAGCTCTGCCTTGCAGAGTGTGCAGGCGATTTCGTAGGGGGGATTCTGAGGAAGTAGATAAGC	109
10	14	CCCTAGCTCTGCCTTGCAGAGTGTGCAGGCGATTTCGTAGGGGGGATTCTGAGGAAGTAGATAAGC	78
8	40	CCCTAGCTCTGCCTTGCAGAGTGTGCAGGCGATTTCGTAGGGGGGATTCTGAGGAAGTAGATAAGC	104
6	14	CCCTA-CTCTGCCTTGCAGAGTGTGCAGGCGATTTCGTAGGGGGGATTCTGAGGAAGTAGATAAGC	77
11	29	CCCTAGCTCTGCCTTGCAGAGTGTGCAGGCGATTTCGTAGGGGGGATTCTGAGGAAGTAGATAAGC	93
5	49	-CTAGCTCTGCCTTGCAGAGTGTGCAGGCGATTTCGTAGGGGGGATTCTGAGGAAGTAGATAAGC	112
17	36	-CTAAGCTCTGCCTTGCAGAGTGTGCAGGCGATTTCGTAGGGGGGATTCTGAGGAAGTAGATAAGC	100
16	86	ACTCAACTCTCCCTCAGAGAGAGCAGGCGATTTCGTAGGGGGGATTCTGAGGAAGTAGATAAGC	150
23	25	CCCTAGCTCTGCCTTGCAGAGTGTGCAGGCGATTTCGTAGGGGGGATTCTGAGGAAGTAGATAAGC	89
VDR	190	-CTAGCTCTGCCTTGCAGAGTGTGCAGGCGATTTCGTAGGGGGGATTCTGAGGAAGTAGATAAGC	253
21	32	-CTAGCTCTGCCTTGCAGAGTGTGCAGGCGATTTCGTAGGGGGGATTCTGAGGAAGTAGATAAGC	95
14	33	-CTAGCTCTGCCTTGCAGAGTGTGCAGGCGATTTCGTAGGGGGGATTCTGAGGAAGTAGATAAGC	96
15	33	-CTAGCTCTGCCTTGCAGAGTGTGCAGGCGATTTCGTAGGGGGGATTCTGAGGAAGTAGATAAGC	96
13	36	-CTAGCTCTGCCTTGCAGAGTGTGCAGGCGATTTCGTAGGGGGGATTCTGAGGAAGTAGATAAGC	99
22	28	-CTAGCTCTGCCTTGCAGAGTGTGCAGGCGATTTCGTAGGGGGGATTCTGAGGAAGTAGATAAGC	91
19	31	-CTAGCTCTGCCTTGCAGAGTGTGCAGGCGATTTCGTAGGGGGGATTCTGAGGAAGTAGATAAGC	94
20	32	-CTAGCTCTGCCTTGCAGAGTGTGCAGGCGATTTCGTAGGGGGGATTCTGAGGAAGTAGATAAGC	95
7	118	-CT-AGCTCTGC-ITGCAGAGTGTGCAGGCGATTTCGTAGGGGGGATTCTGAGGAAGTAGATAAGC	179
12	268	-CT-AGCTCTGC-ITGCAGAGTGTGCAGGCGATTTCGTAGGGGGGATTCTGAGGAAGTAGATAAGC	329
3	58	-CT-AGCTCTGCCTTGCAGAGTGTGCAGGCGATTTCGTAGGGGGGATTCTGAGGAAGTAGATAAGC	120
18	35	-CTTAGCTCTGCCTTGCAGAGTGTGCAGGCGATTTCGTAGGGGGGATTCTGAGGAAGTAGATAAGC	98
<i>BsmI</i>			
4	93	AGGGTTCCTGGGGCCACAGACAGGCCTGCACATTCCTCCCAATACTCAGGCTCTGTACTTGC CGGAAT	158
9	93	AGGGTTCCTGGGGCCACAGACAGGCCTGCACATTCCTCCCAATACTCAGGCTCTGTACTTGC CGGAAT	158
2	141	AGGGTTCCTGGGGCCACAGACAGGCCTGCACATTCCTCCCAATACTCAGGCTCTGTACTTGC CGGAAT	206
1	110	AGGGTTCCTGGGGCCACAGACAGGCCTGCACATTCCTCCCAATACTCAGGCTCTGTACTTGC CGGAAT	175
10	79	AGGGTTCCTGGGGCCACAGACAGGCCTGGGCATTCCTCCCAATACTCAGGCTCTGTACTTGC CGGAAT	144
8	105	AGGGTTCCTGGGGCCACAGACAGGCCTGCGCATTCCTCCCAATACTCAGGCTCTGTACTTGC CGGAAT	170
6	78	AGGGTTCCTGGGGCCACAGACAGGCCTGCACATTCCTCCCAATACTCAGGCTCTGTACTTGC CGGAAT	143
11	94	AGGGTTCCTGGGGCCACAGACAGGCCTGCACATTCCTCCCAATACTCAGGCTCTGTACTTGC CGGAAT	159
5	113	AGGGTTCCTGGGGCCACAGACAGGCCTGGGCATTCCTCCCAATACTCAGGCTCTGTACTTGC CGGAAT	178
17	101	AGGGTTCCTGGGGCCACAGACAGGCCTGCACATTCCTCCCAATACTCAGGCTCTGTACTTGC CGGAAT	166
16	151	AGGGTTCCTGGGGCCACAGGCAGGCCTGGGCATTCCTCCCAATACTCAGGCTCTGTACTTGC CGGAAT	217
23	90	AGGGTTCCTGGGGCCACAGACAGGCCTGCACATTCCTCCCAATACTCAGGCTCTGTACTTGC CGGAAT	155
VDR	254	AGGGTTCCTGGGGCCACAGACAGGCCTGGGCATTCCTCCCAATACTCAGGCTCTGTACTTGC CGGAAT	319
21	96	AGGGTTCCTGGGGCCACAGACAGGCCTGCGCATTCCTCCCAATACTCAGGCTCTGTACTTGC CGGAAT	161
14	97	AGGGTTCCTGGGGCCACAGACAGGCCTGGGCATTCCTCCCAATACTCAGGCTCTGTACTTGC CGGAAT	162
15	97	AGGGTTCCTGGGGCCACAGACAGGCCTGCACATTCCTCCCAATACTCAGGCTCTGTACTTGC CGGAAT	162
13	100	AGGGTTCCTGGGGCCACAGACAGGCCTGGGCATTCCTCCCAATACTCAGGCTCTGTACTTGC CGGAAT	165
22	92	AGGGTTCCTGGGGCCACAGACAGGCCTGCACATTCCTCCCAATACTCAGGCTCTGTACTTGC CGGAAT	157
19	95	AGGGTTCCTGGGGCCACAGACAGGCCTGGGCATTCCTCCCAATACTCAGGCTCTGTACTTGC CGGAAT	160
20	96	AGGGTTCCTGGGGCCACAGACAGGCCTGCGCATTCCTCCCAATACTCAGGCTCTGTACTTGC CGGAAT	161
7	180	AGGGTTCCTGGGGCCACAGACAGGCCTGCACATTCCTCCCAATACTCAGGCTCTGTACTTGC CGGAAT	245
12	330	AGGGTTCCTGGGGCCACAGACAGGCCTGCGCATTCCTCCCAATACTCAGGCTCTGTACTTGC CGGAAT	395
3	121	AGGGTTCCTGGGGCCACAGACAGGCCTGGGCATTCCTCCCAATACTCAGGCTCTGTACTTGC CGGAAT	186
18	99	AGGGTTCCTGGGGCCACAGACAGGCCTGCACATTCCTCCCAATACTCAGGCTCTGTACTTGC CGGAAT	164
<i>Apal</i>			
4	159	GGGCTCAACATTCTGTATTTGAGGTTTTCGCGGCAGGGTACAAAACCTTTGGAGCCTGAGGAGG	224
9	159	GGGCTCAACATTCTGTATTTGAGGTTTTCGCGGCAGGGTACAAAACCTTTGGAGCCTGAGGAGG	224
2	207	GGGCTCAACATTCTGTATTTGAGGTTTTCGCGGCAGGGTACAAAACCTTTGGAGCCTGAG-AGG	271
1	176	GGGCTCAACATTCTGTATTTGAGGTTTTCGCGGCAGGGTACAAAACCTTTGGAGCCTGAG-AGG	240
10	145	GGGCTCAACATTCTGTATTTGAGGTTTTCGCGGCAGGGTACAAAACCTTTGGAGCCTGAG-AGG	209
8	171	GGGCTCAACATTCTGTATTTGAGGTTTTCGCGGCAGGGTACAAAACCTTTGGAGCCTGAG-AGG	235
6	144	GGGCTCAACATTCTGTATTTGAGGTTTTCGCGGCAGGGTACAAAACCTTTGGAGCCTGAG-AGG	208
11	160	GGGCTCAACATTCTGTATTTGAGGTTTTCGCGGCAGGGTACAAAACCTTTGGAGCCTGAG-AGG	224
5	179	GGGCTCAACATTCTGTATTTGAGGTTTTCGCGGCAGGGTACAAAACCTTTGGAGCCTGAG-AGG	243
17	167	GGGCTCAACATTCTGTATTTGAGGTTTTCGCGGCAGGGTACAAAACCTTTGGAGCCTGAG-AGG	231
16	218	GGGCTCAACATTCTGTATTTGAGGTTTTCGCGGCAGGGTACAAAACCTTTGGAGCCTGAG-AGG	283
23	156	GGGCTCAACATTCTGTATTTGAGGTTTTCGCGGCAGGGTACAAAACCTTTGGAGCCTGAG-AGG	220

VDR	320	GGGCTCAACATTCTGTATTTGAGGTTTTGCGGGCAGGGTACAAAACCTTTGGAGCCTGAG-AGG	384
21	162	GGGCTCAACATTCTGTATTTGAGGTTTTGCGGGCAGGGTACAAAACCTTTGGAGCCTGAG-AGG	226
14	163	GGGCTCAACATTCTGTATTTGAGGTTTTGCGGGCAGGGTACAAAACCTTTGGAGCCTGAG-AGG	227
15	163	GGGCTCAACATTCTGTATTTGAGGTTTTGCGGGCAGGGTACAAAACCTTTGGAGCCTGAG-AGG	227
13	166	GGGCTCAACATTCTGTATTTGAGGTTTTGCGGGCAGGGTACAAAACCTTTGGAGCCTGAG-AGG	230
22	158	GGGCTCAACATTCTGTATTTGAGGTTTTGCGGGCAGGGTACAAAACCTTTGGAGCCTGAG-AGG	222
19	161	GGGCTCAACATTCTGTATTTGAGGTTTTGCGGGCAGGGTACAAAACCTTTGGAGCCTGAG-AGG	225
20	162	GGGCTCAACATTCTGTATTTGAGGTTTTGCGGGCAGGGTACAAAACCTTTGGAGCCTGAG-AGG	226
7	246	GGGCTCAACATTCTGTATTTGAGGTTTTGCGGGCAGGGTACAAAACCTTTGGAGCCTGAG-AGG	310
12	396	GGGCTCAACATTCTGTATTTGAGGTTTTGCGGGCAGGGTACAAAACCTTTGGAGCCTGAG-AGG	460
3	187	GGGCTCAACATTCTGTATTTGAGGTTTTGCGGGCAGGGTACAAAACCTTTGGAGCCTGAG-AGG	251
18	165	GGGCTCAACATTCTGTATTTGAGGTTTTGCGGGCAGGGTACAAAACCTTTGGAGCCTGAG-AGG	229
4	225	-ATGGTCTGCCTATATAGTTTACCTGAT-TGATTTTGGAGGCAATGTGCAGTGACCCTTGACCCT	289
9	225	-ATGGTCTGCCTATATAGTTTACCTGAT-TGATTTTGGAGGCAATGTGCAGTGACCCTTGACCCT	289
2	272	-ATGGTCTGCCTATATAGTTTACCTGAT-TGATTTTGGAGGCAATGTGCAGTGACCCTTGACCCT	336
1	241	-ATGGTCTGCCTATATAGTTTACCTGAT-TGATTTTGGAGGCAATGTGCAGTGACCCTTGACCCT	305
10	210	-ATGGTCTGCCTATATAGTTTACCTGAT-TGATTTTGGAGGCAATGTGCAGTGACCCTTGACCCT	274
8	236	-ATGGTCTGCCTATATAGTTTACCTGAT-TGATTTTGGAGGCAATGTGCAGTGACCCTTGACCCT	300
6	209	-ATGGTCTGCCTATATAGTTTACCTGAT-TGATTTTGGAGGCAATGTGCAGTGACCCTTGACCCT	273
11	225	-ATGGTCTGCCTATATAGTTTACCTGAT-TGATTTTGGAGGCAATGTGCAGTGACCCTTGACCCT	289
5	244	-ATGGTCTGCCTATATAGTTTACCTGAT-TGATTTTGGAGGCAATGTGCAGTGACCCTTGACCCT	308
17	232	-ATGGTCTGCCTATATAGTTTACCTGAT-TGATTTTGGAGGCAATGTGCAGTGACCCTTGACCCT	297
16	284	AATGGTCTGCCTATATAGTTTACCTGAT-TGATTTTGGAGGCAATGTGCAGTGACCCTTGACCCT	349
23	221	-ATGGTCTGCCTATATAGTTTACCTGAT-TGATTTTGGAGGCAATGTGCAGTGACCCTTGACCCT	285
VDR	385	-ATGGTCTGCCTATATAGTTTACCTGAT-TGATTTTGGAGGCAATGTGCAGTGACCCTTGACCCT	449
21	227	-ATGGTCTGCCTATATAGTTTACCTGAT-TGATTTTGGAGGCAATGTGCAGTGACCCTTGACCCT	291
14	228	-ATGGTCTGCCTATATAGTTTACCTGAT-TGATTTTGGAGGCAATGTGCAGTGACCCTTGACCCT	292
15	228	-ATGGTCTGCCTATATAGTTTACCTGAT-TGATTTTGGAGGCAATGTGCAGTGACCCTTGACCCT	292
13	231	-ATGGTCTGCCTATATAGTTTACCTGAT-TGATTTTGGAGGCAATGTGCAGTGACCCTTGACCCT	295
22	223	-ATGGTCTGCCTATATAGTTTACCTGAT-TGATTTTGGAGGCAATGTGCAGTGACCCTTGACCCT	287
19	226	-ATGGTCTGCCTATATAGTTTACCTGAT-TGATTTTGGAGGCAATGTGCAGTGACCCTTGACCCT	290
20	227	-ATGGTCTGCCTATATAGTTTACCTGAT-TGATTTTGGAGGCAATGTGCAGTGACCCTTGACCCT	291
7	311	-ATGGTCTGCCTATATAGTTTACCTGAT-TGATTTTGGAGGCAATGTGCAGTGACCCTTGACCCT	375
12	461	-ATGGTCTGCCTATATAGTTTACCTGAT-TGATTTTGGAGGCAATGTGCAGTGACCCTTGACCCT	525
3	252	-ATGGTCTGCCTATATAGTTTACCTGAT-TGATTTTGGAGGCAATGTGCAGTGACCCTTGACCCT	316
18	230	-ATGGTCTGCCTATATAGTTTACCTGAT-TGATTTTGGAGGCAATGTGCAGTGACCCTTGACCCT	294
4	290	TCCGCTGGTTAGAGGTGAGAAGAGGGGAGAAAAGGCCGAAGAGGAAGTTATTGTGACTTGGGACAT	356
9	290	TCCGCTGGTTAGAGGTGAGAAGAGGGGAGAAAAGGCCGAAGAGGAAGTTATTGTGACTTGGGACAT	356
2	337	TCCGCTGGTTAGAGGTGAGAAGAGGGGAGAAAAGGCCGAAGAGGAAGTTATTGTGACTTGGGACAT	403
1	306	TCCGCTGGTTAGAGGTGAGAAGAGGGGAGAAAAGGCCGAAGAGGAAGTTATTGTGACTTGGGACAT	372
10	275	TCCGCTGGTTAGAGGTGAGAAGAGGGGAGAAAAGGCCGAAGAGGAAGTTATTGTGACTTGGGACAT	341
8	301	TCCGCTGGTTAGAGGTGAGAAGAGGGGAGAAAAGGCCGAAGAGGAAGTTATTGTGACTTGGGACAT	367
6	274	TCCGCTGGTTAGAGGTGAGAAGAGGGGAGAAAAGGCCGAAGAGGAAGTTATTGTGACTTGGGACAT	340
11	290	TCCGCTGGTTAGAGGTGAGAAGAGGGGAGAAAAGGCCGAAGAGGAAGTTATTGTGACTTGGGACAT	356
5	309	TCCGCTGGTTAGAGGTGAGAAGAGGGGAGAAAAGGCCGAAGAGGAAGTTATTGTGACTTGGGACAT	375
17	298	TCCGCTGGTTAGAGGTGAGAAGAGGGGAGAAAAGGCCGAAGAGGAAGTTATTGTGACTTGGGACAT	364
16	350	TCCGCTGGTTAGAGGTGAGAAGAGGGGAGAAAAGGCCGAAGAGGAAGTTATTGTGACTTGGGACAT	416
23	286	TCCGCTGGTTAGAGGTGAGAAGAGGGGAGAAAAGGCCGAAGAGGAAGTTATTGTGACTTGGGACAT	352
VDR	450	TCCGCTGGTTAGAGGTGAGAAGAGGGGAGAAAAGGCCGAAGAGGAAGTTATTGTGACTTGGGACAT	516
21	292	TCCGCTGGTTAGAGGTGAGAAGAGGGGAGAAAAGGCCGAAGAGGAAGTTATTGTGACTTGGGACAT	358
14	293	TCCGCTGGTTAGAGGTGAGAAGAGGGGAGAAAAGGCCGAAGAGGAAGTTATTGTGACTTGGGACAT	359
15	293	TCCGCTGGTTAGAGGTGAGAAGAGGGGAGAAAAGGCCGAAGAGGAAGTTATTGTGACTTGGGACAT	359
13	296	TCCGCTGGTTAGAGGTGAGAAGAGGGGAGAAAAGGCCGAAGAGGAAGTTATTGTGACTTGGGACAT	362
22	288	TCCGCTGGTTAGAGGTGAGAAGAGGGGAGAAAAGGCCGAAGAGGAAGTTATTGTGACTTGGGACAT	354
19	291	TCCGCTGGTTAGAGGTGAGAAGAGGGGAGAAAAGGCCGAAGAGGAAGTTATTGTGACTTGGGACAT	357
20	292	TCCGCTGGTTAGAGGTGAGAAGAGGGGAGAAAAGGCCGAAGAGGAAGTTATTGTGACTTGGGACAT	358
7	376	TCCGCTGGTTAGAGGTGAGAAGAGGGGAGAAAAGGCCGAAGAGGAAGTTATTGTGACTTGGGACAT	442
12	526	TCCGCTGGTTAGAGGTGAGAAGAGGGGAGAAAAGGCCGAAGAGGAAGTTATTGTGACTTGGGACAT	592
3	317	TCCGCTGGTTAGAGGTGAGAAGAGGGGAGAAAAGGCCGAAGAGGAAGTTATTGTGACTTGGGACAT	383
18	295	TCCGCTGGTTAGAGGTGAGAAGAGGGGAGAAAAGGCCGAAGAGGAAGTTATTGTGACTTGGGACAT	361
4	357	GATGTCGGTGATAGGTCCAAGAGGGGGCGGCCCTGCCTCAGCCTGTGCTAGTGCCTGTGCCAG	422
9	357	GATGTCGGTGATAGGTCCAAGAGGGGGCGGCCCTGCCTCAGCCTGTGCTAGTGCCTGTGCCAG	422
2	404	GATGTCGGTGATAGGTCCAAGAGGGGGCGGCCCTGCCTCAGCCTGTGCTAGTGCCTGTGCCAG	469
1	373	GATGTCGGTGATAGGTCCAAGAGGGGGCGGCCCTGCCTCAGCCTGTGCTAGTGCCTGTGCCAG	438
10	342	GATGTCGGTGATAGGTCCAAGAGGGGGCGGCCCTGCCTCAGCCTGTGCTAGTGCCTGTGCCAG	407
8	368	GATGTCGGTGATAGGTCCAAGAGGGGGCGGCCCTGCCTCAGCCTGTGCTAGTGCCTGTGCCAG	433
6	341	GATGTCGGTGATAGGTCCAAGAGGGGGCGGCCCTGCCTCAGCCTGTGCTAGTGCCTGTGCCAG	406
11	357	GATGTCGGTGATAGGTCCAAGAGGGGGCGGCCCTGCCTCAGCCTGTGCTAGTGCCTGTGCCAG	422

5	376	GATGTCGGTGATAGGTCCAAAGAGGGGGCGGCCCTGCCTCAGCCTGTGCTAGTGGCCTGTGCCAG	441
17	365	GATGTCGGTGATAGGTCCAAAGAGGGGGCGGCCCTGCCTCAGCCTGTGCTAGTGGCCTGTGCCAG	430
16	417	GATGTCGGTGATAGGTCCAAAGAGGGGGCGGCCCTGCCTCAGCCTGTGCTAGTGGCCTGTGCCAG	483
23	353	GATGTCGGTGATAGGTCCAAAGAGGGGGCGGCCCTGCCTCAGCCTGTGCTAGTGGCCTGTGCCAG	418
VDR	517	GATGTCGGTGATAGGTCCAAAGAGGGGGCGGCCCTGCCTCAGCCTGTGCTAGTGGCCTGTGCCAG	582
21	359	GATGTCGGTGATAGGTCCAAAGAGGGGGCGGCCCTGCCTCAGCCTGTGCTAGTGGCCTGTGCCAG	424
14	360	GATGTCGGTGATAGGTCCAAAGAGGGGGCGGCCCTGCCTCAGCCTGTGCTAGTGGCCTGTGCCAG	425
15	360	GATGTCGGTGATAGGTCCAAAGAGGGGGCGGCCCTGCCTCAGCCTGTGCTAGTGGCCTGTGCCAG	425
13	363	GATGTCGGTGATAGGTCCAAAGAGGGGGCGGCCCTGCCTCAGCCTGTGCTAGTGGCCTGTGCCAG	428
22	355	GATGTCGGTGATAGGTCCAAAGAGGGGGCGGCCCTGCCTCAGCCTGTGCTAGTGGCCTGTGCCAG	420
19	358	GATGTCGGTGATAGGTCCAAAGAGGGGGCGGCCCTGCCTCAGCCTGTGCTAGTGGCCTGTGCCAG	423
20	359	GATGTCGGTGATAGGTCCAAAGAGGGGGCGGCCCTGCCTCAGCCTGTGCTAGTGGCCTGTGCCAG	424
7	443	GATGTCGGTGATAGGTCCAAAGAGGGGGCGGCCCTGCCTCAGCCTGTGCTAGTGGCCTGTGCCAG	508
12	593	GATGTCGGTGATAGGTCCAAAGAGGGGGCGGCCCTGCCTCAGCCTGTGCTAGTGGCCTGTGCCAG	658
3	384	GATGTCGGTGATAGGTCCAAAGAGGGGGCGGCCCTGCCTCAGCCTGTGCTAGTGGCCTGTGCCAG	449
18	362	GATGTCGGTGATAGGTCCAAAGAGGGGGCGGCCCTGCCTCAGCCTGTGCTAGTGGCCTGTGCCAG	427
4	423	GGATGCTTTCCTGGACTGAGGCTCAAGGAATGGAGATGGGCTCCTCTGACCCCTGCCAGCCAGC	488
9	423	GGATGCTTTCCTGGACTGAGGCTCAAGGAATGGAGATGGGCTCCTCTTACCCCTGCCAGCCAGC	488
2	470	GGATGCTTTCCTGGACTGAGGCTCAAGGAATGGAGATGGGCTCCTCT-ACCCCTGCCAGCCAGC	534
1	439	GGATGCTTTCCTGGACTGAGGCTCAAGGAATGGAGATGGGCTCCTCT-TACCCCTGCCAGCCAGC	503
10	408	GGATGCTTTCCTGGACTGAGGCTCAAGGAATGGAGATGGGCTCCTCT-TACCCCTGCCAGCCAGC	472
8	434	GGATGCTTTCCTGGACTGAGGCTCAAGGAATGGAGATGGGCTCCTCT-TACCCCTGCCAGCCAGC	498
6	407	GGATGCTTTCCTGGACTGAGGCTCAAGGAATGGAGATGGGCTCCTCT-TACCCCTGCCAGCCAGC	471
11	423	GGATGCTTTCCTGGACTGAGGCTCAAGGAATGGAGATGGGCTCCTCT-TACCCCTGCCAGCCAGC	487
5	442	GGATGCTTTCCTGGACTGAGGCTCAAGGAATGGAGATGGGCTCCTCT-TACCC-TGCCAGCCAGC	504
17	431	GGATGCTTTCCTGGACTGAGGCTCAAGGAATGGAGATGGGCTCCTCTGACCCCTGCCAGCCAGC	497
16	484	GGATGCTTTCCTGGACTGAGGCTCAAGGAATGGAGATGGGCTCCTCT-TACCCCTGCCAGCCAGC	548
23	419	GGATGCTTTCCTGGACTGAGGCTCAAGGAATGGAGATGGGCTCCTCT-TACCCCTGCCAGCCAGC	483
VDR	583	GGATGCTTTCCTGGACTGAGGCTCAAGGAATGGAGATGGGCTCCTCT-TACCCCTGCCAGCCAGC	647
21	425	GGATGCTTTCCTGGACTGAGGCTCAAGGAATGGAGATGGGCTCCTCT-TACCCCTGCCAGCCAGC	489
14	426	GGATGCTTTCCTGGACTGAGGCTCAAGGAATGGAGATGGGCTCCTCT-TACCCCTGCCAGCCAGC	490
15	426	GGATGCTTTCCTGGACTGAGGCTCAAGGAATGGAGATGGGCTCCTCT-TACCC-TGCCAGCCAGC	489
13	429	GGATGCTTTCCTGGACTGAGGCTCAAGGAATGGAGATGGGCTCCTCT-TACCCCTGCCAGCCAGC	493
22	421	GGATGCTTTCCTGGACTGAGGCTCAAGGAATGGAGATGGGCTCCTCT-TACCCCTGCCAGCCAGC	485
19	424	GGATGCTTTCCTGGACTGAGGCTCAAGGAATGGAGATGGGCTCCTCT-TACCCCTGCCAGCCAGC	488
20	425	GGATGCTTTCCTGGACTGAGGCTCAAGGAATGGAGATGGGCTCCTCT-TACCCCTGCCAGCCAGC	489
7	509	GGATGCTTTCCTGGACTGAGGCTCAAGGAATGGAGATGGGCTCCTCT-TACCCCTGCCAGCCAGC	573
12	659	GGATGCTTTCCTGGACTGAGGCTCAAGGAATGGAGATGGGCTCCTCT-TACCCCTGCCAGCCAGC	723
3	450	GGATGCTTTCCTGGACTGAGGCTCAAGGAATGGAGATGGGCTCCTCT-TACCCCTGCCAGCCAGC	514
18	428	GGATGCTTTCCTGGACTGAGGCTCAAGGAATGGAGATGGGCTCCTCT-TACCCCTGCCAGCCAGC	492
4	489	CTTCTCTCATTTCATTCATCCACTCTAGCAACAATTTATTGAGCACCTATTAGGTACCAGGCACTA	553
9	489	CTTCTCTCATTTCATTCATCCACTCTAGCAACAATTTATTGAGCACCTATTAGGTACCAGGCACTA	553
2	535	CTTCTCTCATTTCATTCATCCACTCTAGCAACAATTTATTGAGCACCTATTAGGTACCAGGCACTA	599
1	504	CTTCTCTCATTTCATTCATCCACTCTAGCAACAATTTATTGAGCACCTATTAGGTACCAGGCACTA	568
10	473	CTTCTCTCATTTCATTCATCCACTCTAGCAACAATTTATTGAGCACCTATTAGGTACCAGGCACTA	537
8	499	CTTCTCTCATTTCATTCATCCACTCTAGCAACAATTTATTGAGCACCTATTAGGTACCAGGCACTA	563
6	472	CTTCTCTCATTTCATTCATCCACTCTAGCAACAATTTATTGAGCACCTATTAGGTACCAGGCACTA	536
11	488	CTTCTCTCATTTCATTCATCCACTCTAGCAACAATTTATTGAGCACCTATTAGGTACCAGGCACTA	552
5	505	CTTCTCTCATTTCATTCATCCACTCTAGCAACAATTTATTGAGCACCTATTAGGTACCAGGCACTA	569
17	498	CTTCTCTCATTTCATTCATCCACTCTAGCAACAATTTATTGAGCACCTATTAGGTACCAGGCACTA	562
16	549	CTTCTGTCAATTCATTCATCCACTCTAGCAACAATTTATTGAGCACCTATTAGGTACCAGGCACTA	615
23	484	CTTCTCTCATTTCATTCATCCACTCTAGCAACAATTTATTGAGCACCTATTAGGTACCAGGCACTA	548
VDR	648	CTTCTCTCATTTCATTCATCCACTCTAGCAACAATTTATTGAGCACCTATTAGGTACCAGGCACTA	712
21	490	CTTCTCTCATTTCATTCATCCACTCTAGCAACAATTTATTGAGCACCTATTAGGTACCAGGCACTA	554
14	491	CTTCTCTCATTTCATTCATCCACTCTAGCAACAATTTATTGAGCACCTATTAGGTACCAGGCACTA	555
15	490	CTTCTCTCATTTCATTCATCCACTCTAGCAACAATTTATTGAGCACCTATTAGGTACCAGGCACTA	554
13	494	CTTCTCTCATTTCATTCATCCACTCTAGCAACAATTTATTGAGCACCTATTAGGTACCAGGCACTA	558
22	486	CTTCTCTCATTTCATTCATCCACTCTAGCAACAATTTATTGAGCACCTATTAGGTACCAGGCACTA	550
19	489	CTTCTCTCATTTCATTCATCCACTCTAGCAACAATTTATTGAGCACCTATTAGGTACCAGGCACTA	553
20	490	CTTCTCTCATTTCATTCATCCACTCTAGCAACAATTTATTGAGCACCTATTAGGTACCAGGCACTA	554
7	574	CTTCTCTCATTTCATTCATCCACTCTAGCAACAATTTATTGAGCACCTATTAGGTACCAGGCACTA	638
12	724	CTTCTCTCATTTCATTCATCCACTCTAGCAACAATTTATTGAGCACCTATTAGGTACCAGGCACTA	788
3	515	CTTCTCTCATTTCATTCATCCACTCTAGCAACAATTTATTGAGCACCTATTAGGTACCAGGCACTA	579
18	493	CTTCTCTCATTTCATTCATCCACTCTAGCAACAATTTATTGAGCACCTATTAGGTACCAGGCACTA	557
4	554	GCTAGGTACTGGGGTTCAGCAGCAAATGGGACACAGGCTCCTCCTCCCATGAAGC-TTAGGAGGA	616
9	554	GCTAGGTACTGGGGTTCAGCAGCAAATGGGACACAGGCTCCTCCTCCCATGAAGC-TTAGGAGGA	616
2	600	GCTAGGTACTGGGGTTCAGCAGCAAATGGGACACAGGCTCCTCCTCCCATGAAGC-TTAGGAGGA	662
1	569	GCTAGGTACTGGGGTTCAGCAGCAAATGGGACACAGGCTCCTCCTCCCATGAAGC-TTAGGAGGA	631

10	538	GCTAGGTTACTGGGGTTCAGCAGCAAATGGGACACAGGCTCCTCCTCCCATGAAGC	TTAGGAGGA	600
8	564	GCTAGGTTACTGGGGTTCAGCAGCAAATGGGACACAGGCTCCTCCTCCCATGAAGC	TTAGGAGGA	626
6	537	GCTAGGTTACTGGGGTTCAGCAGCAAATGGGACACAGGCTCCTCCTCCCATGAAGC	TTAGGAGGA	599
11	553	GCTAGGTTACTGGGGTTCAGCAGCAAATGGGACACAGGCTCCTCCTCCCATGAAGC	TTAGGAGGA	615
5	570	GCTAGGTTACTGGGGTTCAGCAGCAAATGGGACACAGGCTCCTCCTCCCATGAAGC	TTAGGAGGA	632
17	563	GCTAGGTTACTGGGGTTCAGCAGCAAATGGGACACAGGCTCCTCCTCCCATGAAGC	TTAGGAGGA	627
16	616	GCTAGGTTACTGGGGTTCAGCAGCAAATGGGACACAGGCTCCTCCTCCCATGAAGC	TTAGGAGGA	680
23	549	GCTAGGTTACTGGGGTTCAGCAGCAAATGGGACACAGGCTCCTCCTCCCATGAAGC	TTAGGAGGA	611
VDR	713	GCTAGGTTACTGGGGTTCAGCAGCAAATGGGACACAGGCTCCTCCTCCCATGAAGC	TTAGGAGGA	775
21	555	GCTAGGTTACTGGGGTTCAGCAGCAAATGGGACACAGGCTCCTCCTCCCATGAAGC	TTAGGAGGA	617
14	556	GCTAGGTTACTGGGGTTCAGCAGCAAATGGGACACAGGCTCCTCCTCCCATGAAGC	TTAGGAGGA	618
15	555	GCTAGGTTACTGGGGTTCAGCAGCAAATGGGACACAGGCTCCTCCTCCCATGAAGC	TTAGGAGGA	617
13	559	GCTAGGTTACTGGGGTTCAGCAGCAAATGGGACACAGGCTCCTCCTCCCATGAAGC	TTAGGAGGA	621
22	551	GCTAGGTTACTGGGGTTCAGCAGCAAATGGGACACAGGCTCCTCCTCCCATGAAGC	TTAGGAGGA	613
19	554	GCTAGGTTACTGGGGTTCAGCAGCAAATGGGACACAGGCTCCTCCTCCCATGAAGC	TTAGGAGGA	616
20	555	GCTAGGTTACTGGGGTTCAGCAGCAAATGGGACACAGGCTCCTCCTCCCATGAAGC	TTAGGAGGA	617
7	639	GCTAGGTTACTGGGGTTCAGCAGCAAATGGGACACAGGCTCCTCCTCCCATGAAGC	TTAGGAGGA	701
12	789	GCTAGGTTACTGGGGTTCAGCAGCAAATGGGACACAGGCTCCTCCTCCCATGAAGC	TTAGGAGGA	851
3	580	GCTAGGTTACTGGGGTTCAGCAGCAAATGGGACACAGGCTCCTCCTCCCATGAAGC	TTAGGAGGA	642
18	558	GCTAGGTTACTGGGGTTCAGCAGCAAATGGGACACAGGCTCCTCCTCCCATGAAGC	TTAGGAGGA	598
4	617	AACATTTAAACAAATGTTATTTAATTATTAATTCCTAACAAAGGCAAGGGTTTTCGAAATAAAGCTA		681
9	617	AACATTTAAACAAATGTTATTTAATTATTAATTCCTAACAAAGGCAAGGGTTTTCGAAATAAAGCTA		681
2	663	AACATTTAAACAAATGTTATTTAATTATTAATTCCTAACAAAGGCAAGAGTTTTAAAAATAAAG-TA		726
1	632	AACATTTAAACAAATGTTATTTAATTATTAATTCCTAACAAAGGCAAGAGTTTTAAAAATAA-AGTA		695
10	601	AACATTTAAACAAATGTTATTTAATTATTAATTCCTAACAAAGGCAAGAGTTTTAAAAATAA-AGTA		664
8	627	AACATTTAAACAAATGTTATTTAATTATTAATTCCTAACAAAGGCAAGAGTTTTAAAAATAA-AGTA		690
6	600	AACATTTAAACAAATGTTATTTAATTATTAATTCCTAACAAAGGCAAGAGTTTTAAAAATAA-AGTA		663
11	616	AACATTTAAACAAATGTTATTTAATTATTAATTCCTAACAAAGGCAAGAGTTTTAAAAATAA-AGTA		679
5	633	AACATTTAAACAAATGTTATTTAATTATTAATTCCTAACAAAGGCAAGAGTTTTAAAAATAA-AGTA		696
17	628	AACATTTAAACAAATGTTATTTAATTATTAATTCCTAACAAAGGCAAGGGTTTTAAAAATAA-AGTA		692
16	681	AACATTTAAACAAATGTTATTTAATTATTAATTCCTAACAAAGGCAAGAGTTTTAAAAATAAAGTA		746
23	612	AACATTTAAACAAATGTTATTTAATTATTAATTCCTAACAAAGGCAAGAGTTTTAAAAATAA-AGTA		675
VDR	776	AACATTTAAACAAATGTTATTTAATTATTAATTCCTAACAAAGGCAAGAGTTTTAAAAATAA-AGTA		839
21	618	AACATTTAAACAAATGTTATTTAATTATTAATTCCTAACAAAGGCAAGAGTTTTAAAAATAA-AGTA		681
14	619	AACATTTAAACAAATGTTATTTAATTATTAATTCCTAACAAAGGCAAGAGTTTTAAAAATAA-AGTA		682
15	618	AACATTTAAACAAATGTTATTTAATTATTAATTCCTAACAAAGGCAAGAGTTTGAAACATGA-CGTA		681
13	622	AACATTTAAACAAATGTTATTTAATTATTAATTCCTAACAAAGGCAAGAGTTTTAAAAATAA-AGTA		685
22	614	AACATTTAAACAAATGTTATTTAATTATTAATTCCTAACAAAGGCAAGAGTTTTAAAAATAA-AGTA		677
19	617	AACATTTAAACAAATGTTATTTAATTATTAATTCCTAACAAAGGCAAGAGTTTTAAAAATAA-AGTA		680
20	618	AACATTTAAACAAATGTTATTTAATTATTAATTCCTAACAAAGGCAAGAGTTTTAAAAATAA-AGTA		681
7	702	AACATTTAAACAAATGTTATTTAATTATTAATTAAC-TAACAAAGGCAAGAGTTTTAAAAATAA-AGTA		764
12	852	AACATTTAAACAAATGTTATTTAATTATTAATTCCTAACAAAGGCAAGAGTTTTAAAAATAA-AGTA		914
3	643	AACATTTAAACAAATGTTATTTAATTATTAATTCCTAACAAAGGCAAGAGTTTTAAAAATAA-AGTA		706
18	599	AACATTTAAACAAATGTTATTTAATTATTAATTCCTAACAAAGGCAAGAGTTTTAAAAATAA-AGTA		660
4	682	AGGTGATGCTACAGAA---CGGGTAGAATACGAGAGAG---ACG-GGTAACGCTGT---GGCCTA		736
9	682	AGGTGATGCTACAGAA---CGGGTAGAATACGAGAGAG---ACG-GGTAACGCTGT---GGCCTA		736
2	727	AGG-GATGCTACAGAA---CGGGTAGAATAGAAAGGACGGGAACG-CTGAGCGCTGTCTTGGTCTA		786
1	696	-AGTGATGCTACAGAA---GGGTAGAATAGAAAG-GAGGGAAG--CTGA-CGTGT-CTG-GGC-A		748
10	665	-AGTGATGCTACAGAA---GGGTAGAATAGAAAG-GAGGGAAG--CTGA-CGTGTTCTG-GGCTA		719
8	691	-AGTGATGCTACAGAA---GGGTAGAATAGAAAGAGAGGGGAAG--CTGAACGTGTGCTG-GGC		747
6	664	-AGTGATGCTACAGAA---GGGTAGAATAGAAAGGAGGGAAG--CTGA-CGTGTGCTG-GGCTA		718
11	680	-AGTGATGCTACAGAA---GGGTAGAATAGAAAGGAGGGAAG--CTGA-CGTGTCTG-GGCTA		735
5	697	-AGTGATGCTACAG---AAGGG-TAGAATAGAAATAGAAAGGAGGAGCTGA-CGTGGTCTG-GGCTA		756
17	693	AAGTGATGCTACAG---CCCCGTAGAATAGAAAGAGTATGTG---TGA---TAGGCTG-AGCTA		746
16	747	AGCTGATGCTACAGGACACCCGGCTAGAATAGAAAGGATTCGAGGA--CGA-CGTGGGTTG-AGCTA		807
23	676	AG-TGATGCTACAG-AA---GGGTAGAATAGAAAGGAGGGAAG--TGA-CGTGTTCTG-GGCTA		730
VDR	840	-AGTGATGCTACAGAA---GGGTAGAATAGAAAGGAGGG-AAG--CTGA-CGTGGTCTG-GGCTA		894
21	682	-AGTGATGCTACAGAA---GGGTAGAATAGAAAGGAGGG-AAG--CTGA-CGTGGTCTG-GGC-A		735
14	683	-AGTGATGCTACAGAA---GGGTAGAATAGAAAGGAGGG-AAG--CTGA-CGTGGTCTG-GGCTA		737
15	682	-AGTGATGCTACAGAA---CCCTAGAATAGAAAGGAAG--AAG--CTGT-CGTGGTCTCGGTTTC		736
13	686	-AGTGATGCTACAGAA---GGGTAGATTAGGAATGAGC-AAG--TGA-CGTGGTCTG-GGCTA		739
22	678	-AGTGATGCTACAGAA---GGGTAGAATAGAAAGGAGCG-A---CTGA-CGTGGTCTC-CGCAA		730
19	681	-AGTGATGCTACAGAA---GGGTAGAATAGAAAGGAGGG-AAG--CTGA-CGTGGTCTG-GGCTA		735
20	682	-AGTGATGCTACAGAA---GGGTAGAATAGAAAGGAGGG-AAG--CTGC-CGAGTTTTC-AGCTC		736
7	765	-AGTGATGCTACAGAA---GGGTAGA-TAGAAAGGAGGG-AAG--CTGA-CGTGGTCTG-GGCTA		818
12	915	-AGTGATGCTACAGAA---GGGTAGA-TAGAAAGGAGGGGAAG--CTGA-CGTGGTCTG-GGCTA		969
3	707	-AGTGATGCTACAGAA---GGGTAGAATAGAAAGGAGGG-AAG--CTGA-CGTG-TCTG-GGC-A		759
18	661	-ACTGATGCTACAGAA---GGGTAGAATAGAAAGGAGGGAAG--CTGA-----C---A		702

4 737 CAG---AGT----AGA-GTGGTGGCCAGAAATCGCTCCCTTTTGGACGAAGACT-TTTTAAGCTGT 793  
9 737 CAG---AGT----AGA-GTGGTGGCCAGAAATCGCTCCCTTTTGGACGAAGACT-TTTTAAGCTGT 793  
2 787 CAGG--AGT----AGA-GTGGTGGCCAGGAAT--GTCCCTTTTGGAGAAGACCTTTTAAGCTGT 843  
1 749 CAG--ACGT----AGA-GTGGTGGCCAGAAAT--CG-TCCCTTTTGGCAGGA--GACC-TTTTA--GCTGT 801  
10 720 CAG--TAGT----AGA-GTGGTGGCCAGGAAT--GG-CCTTTTGGAGAAAGACC-TTTTAAGCTGT 774  
8 748 CAG--AAGT----AGAA-GTGGTGGCCAGGAAC--TT-GCCTTTTGGAGAAAGACC-TTTTAAGCTGT 803  
6 719 CAG--A-GT----AGAAGTGGTGGCCAGGAA--TG-GCCTTTTGGAGAAAGACC-TTTTAAGCTGT 772  
11 736 CAG--AAGT----AGA-GTGGTGGCCAGGA---TG-GCCTTTTGGAGAAAGACC-TTTTAAGCTGT 788  
5 757 CAG--TAGT----AGA-GTGGTGGCCAGTAAT--GG-CCTTTTGGAGAA--GACC-TTTTAAGCTGT 811  
17 747 CAG--TAGT----AGA-GTGGTGGCCAGGAAT--GG-CCTTTTGGAGAAAGACC-TTTTAAGCTGT 801  
16 808 CAG--TAGT----AGA-GTGGTGGCCAGTAAT--GG-CCTTTTGGAGAA--GACC-TTTTAAGCTGT 862  
23 731 C-G--AGT----AGAAGTGGTGGCCAGAACT--TG-CCTTTTGGAGAAAGACC-TTTTAAGCTGT 785  
VDR 895 CAG--AGGT----AGA-GTGGTGGCCAGGAAT--GG--CCTTTTGGAGGAAGACC-TTTTAAGCTGT 948  
21 736 CAGGTAGGT----AGC-GTGGTGGCCAGGAAT--GG--CCTTTTGGAGGAAGACC-TTTTAAGCTGT 791  
14 738 CAG--AGGT----AGA-GTGGTGGCCAGGAAT--GG--CCTTTTGGAGGAAGACC-TTTTAAGCTGT 791  
15 737 CAG--AGCT----AGA-GTGGTGGCCAGGAAT--GG--CCTTTTGGAGGAAGACC-TTTTAAGCTGT 790  
13 740 CAG--AGGT----AGA-GTGGTGGCCAGGAAT--GG--CCTTTTGGAGGAAGACC-TTTTAAGCTGT 793  
22 731 CAG--ACGT----AGA-GTGGTGGCCAGGAAT--GG--CCTTTTGGAGGAAGACC-TTTTAAGCTGT 784  
19 736 CAG--AGGT----AGA-GTGGTGGCCAGGAAT--GG--CCTTTTGGAGGAAGACC-TTTTAAGCTGT 789  
20 737 CCG--AGT----AGA-GTGGTGGCCAGGAAT--GG--CCTTTTGGAGGAAGACC-TTTTAAGCTGT 790  
7 819 CAG--AGGT----AGA-GTGGTGGCCAGATAT--AGGTCTTTTGCAGCA--GACC-TTTTA--GCTGT 872  
12 970 CAG--AGGT----AGA-GTGGTGGCCAGATAT--AGGTCTTTTGCAGCA--GACC-TTTTA--GCTGT 1023  
3 760 CAG--ACGTGGTGAGA--GTGGTGGCCAGGTAA--TGGCCCTTTTGGAGAAAGACC-TTTTAAGCTGT 820  
18 703 -----GT-----GTGGTGGCCAGCAATCGTCTCCCTTTTGGACGAAGACTTTTAAGCTGT 752

4 794 TATCCACAAGGATCAGTACAGAGTCTGGCATAAGATAGCAGAGCAGAGTTCCTAAGCCGAGGGAGC 856  
9 794 TATCCACAAGGATCAGTACAGAGTCTGGCATAAGATAGCAGAGCAGAGTTCCTAAGCCGAGGGAGC 856  
2 844 TATCCACAAGGATCAGTACAGAGTCTGGCATAAGATAGCAGAGCAGAGTTCCTAAGCCGAGGGAGC 905  
1 802 TATCCACAAGGATCAGTACAGAGTCTGGCATAAGATAGCAGAGCAGAGTTCCTAAGCCGAGGGAGC 863  
10 775 TATCCACAAGGATCAGTACAGAGTCTGGCATAAGATAGCAGAGCAGAGTTCCTAAGCCGAGGGAGC 836  
8 804 TATCCACAAGGATCAGTACAGAGTCTGGCATAAGATAGCAGAGCAGAGTTCCTAAGCCGAGGGAGC 866  
6 773 TATCCACAAGGATCAGTACAGAGTCTGGCATAAGATAGCAGAGCAGAGTTCCTAAGCCGAGGGAGC 834  
11 789 TATCCACAAGGATCAGTACAGAGTCTGGCATAAGATAGCAGAGCAGAGTTCCTAAGCCGAGGGAGC 850  
5 812 TATCCACAAGGATCAGTACAGAGTCTGGCATAAGATAGCAGAGCAGAGTTCCTAAGCCGAGGGAGC 873  
17 802 TATCCACAAGGATCAGTACAGAGTCTGGCATAAGATAGCAGAGCAGAGTTCCTAAGCCGAGGGAGC 863  
16 863 TATCCACAAGGATCAGTACAGAGTCTGGCATAAGATAGCAGAGCAGAGTTCCTAAGCCGAGGGAGC 924  
23 786 TATCCACAAGGATCAGTACAGAGTCTGGCATAAGATAGCAGAGCAGAGTTCCTAAGCCGAGGGAGC 848  
VDR 949 TATCCACAAGGATCAGTACAGAGTCTGGCATAAGATAGCAGAGCAGAGTTCCTAAGCCGAGGGAGC 1010  
21 792 TATCCACAAGGATCAGTACAGAGTCTGGCATAAGATAGCAGAGCAGAGTTCCTAAGCCGAGGGAGC 853  
14 792 TATCCACAAGGATCAGTACAGAGTCTGGCATAAGATAGCAGAGCAGAGTTCCTAAGCCGAGGGAGC 853  
15 791 TATCCACAAGGATCAGTACAGAGTCTGGCATAAGATAGCAGAGCAGAGTTCCTAAGCCGAGGGAGC 852  
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19 790 TATCCACAAGGATCAGTACAGAGTCTGGCATAAGATAGCAGAGCAGAGTTCCTAAGCCGAGGGAGC 851  
20 791 TATCCACAAGGATCAGTACAGAGTCTGGCATAAGATAGCAGAGCAGAGTTCCTAAGCCGAGGGAGC 852  
7 873 TATCCACAAGGATCAGTACAGAGTCTGGCATAAGATAGCAGAGCAGAGTTCCTAAGCCGAGGGAGC 934  
12 1024 TATCCACAAGGATCAGTACAGAGTCTGGCATAAGATAGCAGAGCAGAGTTCCTAAGCCGAGGGAGC 1085  
3 821 TATCCACAAGGATCAGTACAGAGTCTGGCATAAGATAGCAGAGCAGAGTTCCTAAGCCGAGGGAGC 882  
18 753 TATCCACAAGGATCAGTACAGAGTCTGGCATAAGATAGCAGAGCAGAGTTCCTAAGCCGAGGGAGC 818

4 857 ACAGATGTGAAGGCTGGTGGCCAGAGAGCATGGCGCATCGGGACGTGAGGGATGGACAGAGCATGG 923  
9 857 ACAGATGTGAAGGCTGGTGGCCAGAGAGCATGGCGCATCGGGACGTGAGGGATGGACAGAGCATGG 923  
2 906 ACAGATGTGAAGGCTGGTGGCCAGAGAGCATGGCGCATCGGGACGTGAGGGATGGACAGAGCATGG 972  
1 864 ACAGATGTGAAGGCTGGTGGCCAGAGAGCATGGCGCATCGGGACGTGAGGGATGGACAGAGCATGG 930  
10 837 ACAGATGTGAAGGCTGGTGGCCAGAGAGCATGGCGCATCGGGACGTGAGGGATGGACAGAGCATGG 903  
8 867 ACAGATGTGAAGGCTGGTGGCCAGAGAGCATGGCGCATCGGGACGTGAGGGATGGACAGAGCATGG 933  
6 835 ACAGATGTGAAGGCTGGTGGCCAGAGAGCATGGCGCATCGGGACGTGAGGGATGGACAGAGCATGG 901  
11 851 ACAGATGTGAAGGCTGGTGGCCAGAGAGCATGGCGCATCGGGACGTGAGGGATGGACAGAGCATGG 917  
5 874 ACAGATGTGAAGGCTGGTGGCCAGAGAGCATGGCGCATCGGGACGTGAGGGATGGACAGAGCATGG 940  
17 864 ACAGATGTGAAGGCTGGTGGCCAGAGAGCATGGCGCATCGGGACGTGAGGGATGGACAGAGCATGG 930  
16 925 ACAGATGTGAAGGCTGGTGGCCAGAGAGCATGGCGCATCGGGACGTGAGGGATGGACAGAGCATGG 991  
23 849 ACAGATGTGAAGGCTGGTGGCCAGAGAGCATGGCGCATCGGGACGTGAGGGATGGACAGAGCATGG 915  
VDR 1011 ACAGATGTGAAGGCTGGTGGCCAGAGAGCATGGCGCATCGGGACGTGAGGGATGGACAGAGCATGG 1077  
21 854 ACAGATGTGAAGGCTGGTGGCCAGAGAGCATGGCGCATCGGGACGTGAGGGATGGACAGAGCATGG 920  
14 854 ACAGATGTGAAGGCTGGTGGCCAGAGAGCATGGCGCATCGGGACGTGAGGGATGGACAGAGCATGG 920  
15 853 ACAGATGTGAAGGCTGGTGGCCAGAGAGCATGGCGCATCGGGACGTGAGGGATGGACAGAGCATGG 919  
13 856 ACAGATGTGAAGGCTGGTGGCCAGAGAGCATGGCGCATCGGGACGTGAGGGATGGACAGAGCATGG 922  
22 847 ACAGATGTGAAGGCTGGTGGCCAGAGAGCATGGCGCATCGGGACGTGAGGGATGGACAGAGCATGG 913  
19 852 ACAGATGTGAAGGCTGGTGGCCAGAGAGCATGGCGCATCGGGACGTGAGGGATGGACAGAGCATGG 918  
20 853 ACAGATGTGAAGGCTGGTGGCCAGAGAGCATGGCGCATCGGGACGTGAGGGATGGACAGAGCATGG 919  
7 935 ACAGATGTGAAGGCTGGTGGCCAGAGAGCATGGCGCATCGGGACGTGAGGGATGGACAGAGCATGG 1001

12	1086	ACAGATGTGAAGGCTGGTGGCCAGAGAGCATGGCGCATCGGGACGTGAGGGATGGACAGAGCATGT	1152
3	883	ACAGATGTGAAGGCTGGTGGCCAGAGAGCATGGCGCATCGGGACGTGAGGGATGGACAGAGCATGG	949
18	819	ACAGATGTGAAGGCTGGTGGCCAGAGAGCATGGCGCATCGGGACGTGAGGGATGGACAGAGCATGG	885
4	924	ACACGGGAGCAAG-GCCAGGCAGGGACAGGGTCCAGGTGCGCCCATGGAA-GGACCTAGGTCTGGA	985
9	924	ACACGGGAGCAAG-GCCAGGCAGGGACAGGGTCCAGGTGCGCCCATGGAA-GGACCTAGGTCTGGA	985
2	973	ACACGGGAGCAAG-GCCAGGCAGGGACAGGGTCCAGGTGCGCCCATGGAA-GGACCTAGGTCTGGA	1034
1	931	ACACGGCAGCAAG-GCCAGGCAGGTACAGGGTCCAGGTGCGCCCATGGAA-GGACCTAGGTCTGGA	993
10	904	ACACGGGAGCAAG-GCCAGGCAGGGACAGGGTCCAGGTGCGCCCATGGAA-GGACCTAGGTCTGGA	965
8	934	ACACGGGAGCAAG-GCCAGGCAGGGACAGGGTCCAGGTGCGCCCATGGAA-GGACCTAGGTCTGGA	995
6	902	ACACGGGAGCAAG-GCCAGGCAGGGACAGGGTCCAGGTGCGCCCATGGAA-GGACCTAGGTCTGGA	963
11	918	ACACGGGAGCAAG-GCCAGGCAGGGACAGGGTCCAGGTGCGCCCATGGAA-GGACCTAGGTCTGGA	979
5	941	ACACGGGAGCAAG-GCCAGGCAGGGACAGGGTCCAGGTGCGCCCATGGAA-GGACCTAGGTCTGGA	1002
17	931	ACACGGGAGCAAG-GCCAGGCAGGGACAGGGTCCAGGTGCGCCCATGGAA-GGACCTAGGTCTGGA	992
16	992	ACACGGGAGCAAG-GCCAGGCAGGGACAGGGTCCAGGTGCGCCCATGGAA-GGACCTAGGTCTGGA	1053
23	916	ACACGGGAGCAAG-GCCAGGCAGGGACAGGGTCCAGGTGCGCCCATGGAA-GGACCTAGGTCTGGA	977
VDR	1078	ACACGGGAGCAAG-GCCAGGCAGGGACAGGGTCCAGGTGCGCCCATGGAA-GGACCTAGGTCTGGA	1139
21	921	ACACGGGAGCAAG-GCCAGGCAGGGACAGGGTCCAGGTGCGCCCATGGAA-GGACCTAGGTCTGGA	982
14	921	ACACGGGAGCAAG-GCCAGGCAGGGACAGGGTCCAGGTGCGCCCATGGAA-GGACCTAGGTCTGGA	982
15	920	ACACGGGAGCAAG-GCCAGGCAGGGACAGGGTCCAGGTGCGCCCATGGAA-GGACCTAGGTCTGGA	981
13	923	ACACGGGAGCAAG-GCCAGGCAGGGACAGGGTCCAGGTGCGCCCATGGAA-GGACCTAGGTCTGGA	984
22	914	ACACGGGAGCAAG-GCCAGGCAGGGACAGGGTCCAGGTGCGCCCATGGAA-GGACCTAGGTCTGGA	975
19	919	ACACGGGAGCAAG-GCCAGGCAGGGACAGGGTCCAGGTGCGCCCATGGAA-GGACCTAGGTCTGGA	980
20	920	ACACGGGAGCAAG-GCCAGGCAGGGACAGGGTCCAGGTGCGCCCATGGAA-GGACCTAGGTCTGGA	981
7	1002	ACACGGGAGCAAG-GCCAGGCAGGGACAGGGTCCAGGTGCGCCCATGGAA-GGACCTAGGTCTGGA	1063
12	1153	ACACGGGAGCAAG-GCCAGGCAGGGACAGGGTCCAGGTGCGCCCATGGAA-GGACCTAGGTCTGGA	1214
3	950	ACACGGGAGCAAG-GCCAGGCAGGGACAGGGTCCAGGTGCGCCCATGGAAA	1012
18	886	ACACGGCAGCAAGT-GCCAGGCAGGGACAGGGTCCAGGTGCGCCCATGGAA-GGACCTAGGTCTGGA	951
4	986	TCCTAAATGCACGGAGAAGTCACTGGAGGGCTTTGGGGCCAGGCAGTGGTATCACCGGTCAGCAGT	1052
9	986	TCCTAAATGCACGGAGAAGTCACTGGAGGGCTTTGGGGCCAGGCAGTGGTATCACCGGTCAGCAGT	1052
2	1035	TCCTAAATGCACGGAGAAGTCACTGGAGGGCTTTGGGGCCAGGCAGTGGTATCACCGGTCAGCAGT	1101
1	994	TCCTAAATGCACGGAGAAGTCACTGGAGGGCTTTGGGGCCAGGCAGTGGTATCACCGGTCAGCAGT	1060
10	966	TCCTAAATGCACGGAGAAGTCACTGGAGGGCTTTGGGGCCAGGCAGTGGTATCACCGGTCAGCAGT	1032
8	996	TCCTAAATGCACGGAGAAGTCACTGGAGGGCTTTGGGGCCAGGCAGTGGTATCACCGGTCAGCAGT	1062
6	964	TCCTAAATGCACGGAGAAGTCACTGGAGGGCTTTGGGGCCAGGCAGTGGTATCACCGGTCAGCAGT	1030
11	980	TCCTAAATGCACGGAGAAGTCACTGGAGGGCTTTGGGGCCAGGCAGTGGTATCACCGGTCAGCAGT	1046
5	1003	TCCTAAATGCACGGAGAAGTCACTGGAGGGCTTTGGGGCCAGGCAGTGGTATCACCGGTCAGCAGT	1069
17	993	TCCTAAATGCACGGAGAAGTCACTGGAGGGCTTTGGGGCCAGGCAGTGGTATCACCGGTCAGCAGT	1059
16	1054	TCCTAAATGCACGGAGAAGTCACTGGAGGGCTTTGGGGCCAGGCAGTGGTATCACCGGTCAGCAGT	1120
23	978	TCCTAAATGCACGGAGAAGTCACTGGAGGGCTTTGGGGCCAGGCAGTGGTATCACCGGTCAGCAGT	1044
VDR	1140	TCCTAAATGCACGGAGAAGTCACTGGAGGGCTTTGGGGCCAGGCAGTGGTATCACCGGTCAGCAGT	1206
21	983	TCCTAAATGCACGGAGAAGTCACTGGAGGGCTTTGGGGCCAGGCAGTGGTATCACCGGTCAGCAGT	1049
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13	985	TCCTAAATGCACGGAGAAGTCACTGGAGGGCTTTGGGGCCAGGCAGTGGTATCACCGGTCAGCAGT	1051
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19	981	TCCTAAATGCACGGAGAAGTCACTGGAGGGCTTTGGGGCCAGGCAGTGGTATCACCGGTCAGCAGT	1047
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7	1064	TCCTAAATGCACGGAGAAGTCACTGGAGGGCTTTGGGGCCAGGCAGTGGTATCACCGGTCAGCAGT	1130
12	1215	TCCTAAATGCACGGAGAAGTCACTGGAGGGCTTTGGGGCCAGGCAGTGGTATCACCGGTCAGCAGT	1281
3	1013	TCCTAAATGCACGGAGAAGTCACTGGAGGGCTTTGGGGCCAGGCAGTGGTATCACCGGTCAGCAGT	1079
18	952	TCCTAAATGCACGGAGAAGTCACTGGAGGGCTTTGGGGCCAGGCAGTGGTATCACCGGTCAGCAGT	1018
4	1053	ATAGAGGGGTGGCCTAGGGGGTGTCTGCCGTTGAGGTCGTGTGGGTGGGGGTGGTGGGATTGAGC	1119
9	1053	ATAGAGGGGTGGCCTAGGGGGTGTCTGCCGTTGAGGTCGTGTGGGTGGGGGTGGTGGGATTGAGC	1119
2	1102	ATAGAGGGGTGGCCTAGGGGGTGTCTGCCGTTGAGGTCGTGTGGGTGGGGGTGGTGGGATTGAGC	1168
1	1061	ATAGAGGGGTGGCCTAGGGGGTGTCTGCCGTTGAGGTCGTGTGGGTGGGGGTGGTGGGATTGAGC	1127
10	1033	ATAGAGGGGTGGCCTAGGGGGTGTCTGCCGTTGAGGTCGTGTGGGTGGGGGTGGTGGGATTGAGC	1099
8	1063	ATAGAGGGGTGGCCTAGGGGGTGTCTGCCGTTGAGGTCGTGTGGGTGGGGGTGGTGGGATTGAGC	1129
6	1031	ATAGAGGGGTGGCCTAGGGGGTGTCTGCCGTTGAGGTCGTGTGGGTGGGGGTGGTGGGATTGAGC	1097
11	1047	ATAGAGGGGTGGCCTAGGGGGTGTCTGCCGTTGAGGTCGTGTGGGTGGGGGTGGTGGGATTGAGC	1113
5	1070	ATAGAGGGGTGGCCTAGGGGGTGTCTGCCGTTGAGGTCGTGTGGGTGGGGGTGGTGGGATTGAGC	1136
17	1060	ATAGAGGGGTGGCCTAGGGGGTGTCTGCCGTTGAGGTCGTGTGGGTGGGGGTGGTGGGATTGAGC	1126
16	1121	ATAGAGGGGTGGCCTAGGGGGTGTCTGCCGTTGAGGTCGTGTGGGTGGGGGTGGTGGGATTGAGC	1187
23	1045	ATAGAGGGGTGGCCTAGGGGGTGTCTGCCGTTGAGGTCGTGTGGGTGGGGGTGGTGGGATTGAGC	1111
VDR	1207	ATAGAGGGGTGGCCTAGGGGGTGTCTGCCGTTGAGGTCGTGTGGGTGGGGGTGGTGGGATTGAGC	1273
21	1050	ATAGAGGGGTGGCCTAGGGGGTGTCTGCCGTTGAGGTCGTGTGGGTGGGGGTGGTGGGATTGAGC	1116
14	1050	ATAGAGGGGTGGCCTAGGGGGTGTCTGCCGTTGAGGTCGTGTGGGTGGGGGTGGTGGGATTGAGC	1116
15	1049	ATAGAGGGGTGGCCTAGGGGGTGTCTGCCGTTGAGGTCGTGTGGGTGGGGGTGGTGGGATTGAGC	1115
13	1052	ATAGAGGGGTGGCCTAGGGGGTGTCTGCCGTTGAGGTCGTGTGGGTGGGGGTGGTGGGATTGAGC	1118

22 1043 ATAGAGGGGTGGCCTAGGGGGTGTGCCGTTGAGGTCGTGTGGGTGGGGGTGGTGGGATTGAGC 1109  
 19 1048 ATAGAGGGGTGGCCTAGGGGGTGTGCCGTTGAGGTCGTGTGGGTGGGGGTGGTGGGATTGAGC 1114  
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 12 1282 ATAGAGGGGTGGCCTAGGGGGTGTGCCGTTGAGGTCGTGTGGGTGGGGGTGGTGGGATTGAGC 1348  
 3 1080 ATAGAGGGGTGGCCTAGGGGGTGTGCCGTTGAGGTCGTGTGGGTGGGGGTGGTGGGATTGAGC 1146  
 18 1019 ATAGAGGGGTGGCCTAGGGGGTGTGCCGTTGAGGTCGTGTGGGTGGGGGTGGTGGGATTGAGC 1082

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4 1120 AGTGAGGTGCCAGCTGAGAGCTCCTGTGCCTTCTTCTATCCCCGTGCCACAGATCGTCTCTGG 1185  
 9 1120 AGTGAGGGGCCAGCTGAGAGCTCCTGTGCCTTCTTCTATCCCCGTGCCACAGATCGTCTCTGG 1185  
 2 1169 AGTGAGGTGCCAGCTGAGAGCTCCTGTGCCTTCTTCTATCCCCGTGCCACAGATCGTCTCTGG 1234  
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 10 1100 AGTGAGGGGCCAGCTGAGAGCTCCTGTGCCTTCTTCTATCCCCGTGCCACAGATCGTCTCTGG 1165  
 8 1130 AGTGAGGTGCCAGCTGAGAGCTCCTGTGCCTTCTTCTATCCCCGTGCCACAGATCGTCTCTGG 1195  
 6 1098 AGTGAGGTGCCAGCTGAGAGCTCCTGTGCCTTCTTCTATCCCCGTGCCACAGATCGTCTCTGG 1163  
 11 1114 AGTGAGGGGCCAGCTGAGAGCTCCTGTGCCTTCTTCTATCCCCGTGCCACAGATCGTCTCTGG 1179  
 5 1137 AGTGAGGGGCCAGCTGAGAGCTCCTGTGCCTTCTTCTATCCCCGTGCCACAGATCGTCTCTGG 1202  
 17 1127 AGTGAGGTGCCAGCTGAGAGCTCCTGTGCCTTCTTCTATCCCCGTGCCACAGATCGTCTCTGG 1192  
 16 1188 AGTGAGGGGCCAGCTGAGAGCTCCTGTGCCTTCTTCTATCCCCGTGCCACAGATCGTCTCTGG 1253  
 23 1112 AGTGAGGGGCCAGCTGAGAGCTCCTGTGCCTTCTTCTATCCCCGTGCCACAGATCGTCTCTGG 1177  
 VDR 1274 AGTGAGGGGCCAGCTGAGAGCTCCTGTGCCTTCTTCTATCCCCGTGCCACAGATCGTCTCTGG 1339  
 21 1117 AGTGAGGGGCCAGCTGAGAGCTCCTGTGCCTTCTTCTATCCCCGTGCCACAGATCGTCTCTGG 1182  
 14 1117 AGTGAGGGGCCAGCTGAGAGCTCCTGTGCCTTCTTCTATCCCCGTGCCACAGATCGTCTCTGG 1182  
 15 1116 AGTGAGGTGCCAGCTGAGAGCTCCTGTGCCTTCTTCTATCCCCGTGCCACAGATCGTCTCTGG 1181  
 13 1119 AGTGAGGGGCCAGCTGAGAGCTCCTGTGCCTTCTTCTATCCCCGTGCCACAGATCGTCTCTGG 1184  
 22 1110 AGTGAGGGGCCAGCTGAGAGCTCCTGTGCCTTCTTCTATCCCCGTGCCACAGATCGTCTCTGG 1175  
 19 1115 AGTGAGGGGCCAGCTGAGAGCTCCTGTGCCTTCTTCTATCCCCGTGCCACAGATCGTCTCTGG 1180  
 20 1116 AGTGAGGGGCCAGCTGAGAGCTCCTGTGCCTTCTTCTATCCCCGTGCCACAGATCGTCTCTGG 1181  
 7 1198 AGTGAGGTGCCAGCTGAGAGCTCCTGTGCCTTCTTCTATCCCCGTGCCACAGATCGTCTCTGG 1263  
 12 1349 AGTGAGGGGCCAGCTGAGAGCTCCTGTGCCTTCTTCTATCCCCGTGCCACAGATCGTCTCTGG 1414  
 3 1147 AGTGAGGTGCCAGCTGAGAGCTCCTGTGCCTTCTTCTATCCCCGTGCCACAGATCGTCTCTGG 1212  
 18 1083 AGTGAGGGGCCAGCTGAGAGCTCCTGTGCCTTCTTCTATCCCCGTGCCACAGATCGTCTCTGG 1120

*TaqI*

4 1186 GGTGCAGGACGCCCGCGCTGATCGAGGCCATCCAGGACCGCCTGTCCAACACTGTCAGACGTACATC 1252  
 9 1186 GGTGCAGGACGCCCGCGCTGATCGAGGCCATCCAGGACCGCCTGTCCAACACTGTCAGACGTACATC 1252  
 2 1235 GGTGCAGGACGCCCGCGCTGATCGAGGCCATCCAGGACCGCCTGTCCAACACTGTCAGACGTACATC 1301  
 1 1194 GGTGCAGGACGCCCGCGCTGATCGAGGCCATCCAGGACCGCCTGTCCAACACTGTCAGACGTACATC 1260  
 10 1166 GGTGCAGGACGCCCGCGCTGATCGAGGCCATCCAGGACCGCCTGTCCAACACTGTCAGACGTACATC 1232  
 8 1196 GGTGCAGGACGCCCGCGCTGATCGAGGCCATCCAGGACCGCCTGTCCAACACTGTCAGACGTACATC 1262  
 6 1164 GGTGCAGGACGCCCGCGCTGATCGAGGCCATCCAGGACCGCCTGTCCAACACTGTCAGACGTACATC 1230  
 11 1180 GGTGCAGGACGCCCGCGCTGATCGAGGCCATCCAGGACCGCCTGTCCAACACTGTCAGACGTACATC 1246  
 5 1203 GGTGCAGGACGCCCGCGCTGATCGAGGCCATCCAGGACCGCCTGTCCAACACTGTCAGACGTACATC 1269  
 17 1193 GGTGCAGGACGCCCGCGCTGATCGAGGCCATCCAGGACCGCCTGTCCAACACTGTCAGACGTACATC 1259  
 16 1254 GGTGCAGGACGCCCGCGCTGATCGAGGCCATCCAGGACCGCCTGTCCAACACTGTCAGACGTACATC 1320  
 23 1178 GGTGCAGGACGCCCGCGCTGATCGAGGCCATCCAGGACCGCCTGTCCAACACTGTCAGACGTACATC 1241  
 VDR 1340 GGTGCAGGACGCCCGCGCTGATCGAGGCCATCCAGGACCGCCTGTCCAACACTGTCAGACGTACATC 1403  
 21 1183 GGTGCAGGACGCCCGCGCTGATCGAGGCCATCCAGGACCGCCTGTCCAACACTGTCAGACGTACATC 1246  
 14 1183 GGTGCAGGACGCCCGCGCTGATCGAGGCCATCCAGGACCGCCTGTCCAACACTGTCAGACGTACATC 1246  
 15 1182 GGTGCAGGACGCCCGCGCTGATCGAGGCCATCCAGGACCGCCTGTCCAACACTGTCAGACGTACATC 1245  
 13 1185 GGTGCAGGACGCCCGCGCTGATCGAGGCCATCCAGGACCGCCTGTCCAACACTGTCAGACGTACATC 1248  
 22 1176 GGTGCAGGACGCCCGCGCTGATCGAGGCCATCCAGGACCGCCTGTCCAACACTGTCAGACGTACATC 1239  
 19 1181 GGTGCAGGACGCCCGCGCTGATCGAGGCCATCCAGGACCGCCTGTCCAACACTGTCAGACGTACATC 1244  
 20 1182 GGTGCAGGACGCCCGCGCTGATCGAGGCCATCCAGGACCGCCTGTCCAACACTGTCAGACGTACATC 1245  
 7 1264 GGTGCAGGACGCCCGCGCTGATCGAGGCCATCCAGGACCGCCTGTCCAACACTGTCAGACGTACATC 1330  
 12 1415 GGTGCAGGACGCCCGCGCTGATCGAGGCCATCCAGGACCGCCTGTCCAACACTGTCAGACGTACATC 1481  
 3 1213 GGTGCAGGACGCCCGCGCTGATCGAGGCCATCCAGGACCGCCTGTCCAACACTGTCAGACGTACATC 1279  
 18 1121 GGTGCAGGACGCCCGCGCTGATCGAGGCCATCCAGGACCGCCTGTCCAACACTGTCAGACGTACATC 1120

4 1253 C-GCTGCCGCCACCCGCCCCCGGGCAGCCACCTGCTCTA-TGCCAAGATGATCCAGA--GCTTAGGC 1315  
 9 1253 C-GCTGCCGCCACCCGCCCCCGGGCAGCCACCTGCTCTA-TGCCAAGATGATCCAGA--GCTTAGGC 1315  
 2 1302 CCCTGCCGCCACCCGCCCCCGGGCAGCCACCTGCTCTA-TGCCAAGATGATCCAGA--GCCTAACC 1365  
 1 1261 C-GCTGCCGCCACCCGCCCCCGGGCAGCCACCTGCTCTA-TGCCAAGATGATCCAGATGGCTTTGCC 1325  
 10 1233 C-GCTGCCGCCACCCGCCCCCGGGCAGCCACCTGCTCTA-TGCCAAGATGATCCAGA-GGCTTTGCC 1296  
 8 1263 C-GCTGCCGCCACCCGCCCCCGGGCAGCCACCTGCTCTA-TGCCAAGATGATCCAGA-GCCTTAGCC 1326  
 6 1231 C-GCTGCCGCCACCCGCCCCCGGGCAGCCACCTGCTCTA-TGCCAAGATGATCCAGA-GCTTTAGCC 1294  
 11 1247 C-GCTGCCGCCACCCGCCCCCGGGCAGCCACCTGCTCTA-TGCCAAGATGATCCAGA-GGCTTAGCC 1310  
 5 1270 C-GCTGCCGCCACCCGCCCCCGGGCAGCCACCTGCTCTA-TGCCAAGATGATCCAGA-GGCTTTACC 1333  
 17 1260 C-GCTGCCGCCACCCGCCCCCGGGCAGCCACCTGCTCTA-TGCCAAGATGATCCAGA-GGCTTTGCC 1323  
 16 1321 C-GTGGCCGCCACCCGCCCCCGGGCAGCCACCTGCTCTA-TGCCAAGATGATCCAGA-GGCTTTACC 1384  
 23 1242 C-GCTGCCGCCACCCGCCCCCGGGCAGCCACCTGCTCTA-TGCCAAGATGATCC 1293  
 VDR 1404 C-GCTGCCGCCACCCGCCCCCGGGCAGCCACCTGCTCTA-TGCCAAGATGATCCAGA--AGCTAGCC 1466

21	1247	C-GCTGCCGCCACCCGCCCCCGGGCAGCCACCT	GCTCTA-TGCCAAGATGATCCAGA--AGCTAGCC	1309
14	1247	C-GCTGCCGCCACCCGCCCCCGGGCAGCCACCT		1278
15	1246	C-GTGCCGCCACCCGCCCCCGGGCAGCCACCT	GCTTTA-TGCCTAGGTGAAACAGT--ACCTAGCC	1308
13	1249	C-GTGCCGCCACCCGCCCCCGGGCAGCCACCT	GCTCTA-TGCCAAGATGA	1297
22	1240	C-GTGCCGCCACCCGCCCCCGGGCAGCCACCT	GCTC---GTCTAT-TGTCCTAA	1289
19	1245	C-GTGCCGCCACCCGCCCCCGGGCAGCCACCT	GCTCTA-TGACAAA-TGCTGTAGA--AGCTAGCC	1306
20	1246	C-GTGCCGCCACCCGCCCCCGGGCAGCCACCT	GCTCTTCTGATAAC-TGCTGTAGA--AG	1302
7	1331	C-GTGCCGCCACCCGCCCCCGGGCAGCCACCT	GCTCTA-TGCCAAGATGATCCAGA--GCTTAGGC	1393
12	1482	C-GTGCCGCCACCCGCCCCCGGGCAGCCACCT	GCTCTA-TGCCAAGATGATCCAGA--GCTTAGGC	1544
3	1280	C-GTGCCGCCACCCGCCCCCGGGCAGCCACCT	GCTCTA-TGCCAAGATGATCCAGA--GCTTAACC	1342
18	1121	C-GTGCCGCCACCCGCCCCCGGGCAGCCACCT	GC-GTATTGAGA	1120

