

		*	20	*	40		
L1PA1 :	GGGGGGAGGAG		CCAAGATGGCCGAATAGGAACAGCTCCGGTC	:		42	
L1PA2 :	GGGGGGAGGAG		CCAAGATGGCCGAATAGGAACAGCTCCGGTC	:		42	
L1PA3 :	GGGGGGAGGAG		CCAAGATGGCCGAATAGGAACAGCTCCGGTC	:		42	
L1PA4 :	GGGGGGAGGAG		CCAAGATGGCCGAATAGGAACAGCTCCGGTC	:		42	
L1PA5 :	GGGGGGAGGAG		CCAAGATGGCCGAATAGGAACAGCTCCGGTC	:		42	
L1PA6 :	-----		CCAAGATGGCCGAATAGGAACAGCTCCGGTC	:		31	
	gggggggaggag		CCAAGATGGCCGAATAGGAACAGCTCCGGTC				

		*	60	*	80		
L1PA1 :	TACAGCTCCCAGCGTGAG		CGACGCAGAAGACGG	-	TGATTTCT	:	83
L1PA2 :	TACAGCTCCCAGCGTGAG		CGACGCAGAAGACGG		TGATTTCT	:	84
L1PA3 :	TACAGCTCCCAGCGTGAG		CGACGCAGAAGACGG		TGATTTCT	:	84
L1PA4 :	TACAGCTCCCAGCGTGAG		CGACGCAGAAGACGG		TGATTTCT	:	84
L1PA5 :	TACAGCTCCCAGCGTGAG		CGACGCAGAAGACGG		TGATTTCT	:	84
L1PA6 :	TG		CAGCTCCCAGCGTGAG		TGATTTCT	:	73
	Ta		CAGCTCCCAGCGTGAG		gCGACGCAGAAGACGGg		TGATTTCT

		*	100	*	120		
L1PA1 :	GCATTTCCAT		CTGAGGTACCG		GGTTCATCTCACTAGGGAGTG	:	125
L1PA2 :	GCATTTCCAT		CTGAGGTACCG		GGTTCATCTCACTAGGGAGTG	:	126
L1PA3 :	GCATTTCCAT		CTGAGGTACCG		GGTTCATCTCACTAGGGAGTG	:	126
L1PA4 :	GCATTTCCA		ACTGAGGTACCG		GGTTCATCTCACTAGGGAGTG	:	126
L1PA5 :	GCATTTCCA		ACTGAGGTACCG		GGTTCATCTCACTAGGGCTTG	:	126
L1PA6 :	GCATTTCCA		ACTGAGGTACCT		TGGTTCATCTCACTAGGGACTGG	:	115
	GCATTTCCA		CTGAGGTACCG		gGGTTCATCTCAcT		GgG tG

		*	140	*	160		
L1PA1 :	CCAGACAGTGGG		CGCAGG		CAGTGGGTGTG	-	CGCAGCAGTGG
L1PA2 :	CCAGACAGTGGG		CGCAGG		TCAAGTGGGTGTG	-	CGCAGCAGTGG
L1PA3 :	CCAGACAGTGGG		CGCAGG		ACAGTGGGTGTG		CGCAGCAGTGG
L1PA4 :	CCAGACAGTGGG		TGCAGG		ACAGTGGGTGTG		CGCAGCAGTGG
L1PA5 :	T		CAGACAGTGGG		TGCAGG		ACAGTGGGTGTG
L1PA6 :	TTG		GACAGTGGG		TGCAG		-----CCACGGAGGG
	ca		GACAGTGGG		GCAGg		cagtg gtg gC CACcG GcG

		*	180	*	200	*	
L1PA1 :	CGAGCC		GAAAGCAGGGCG		AGGCATTGCCTCAC		CTGGGAAGCGC
L1PA2 :	CGAGCC		GAAAGCAGGGCG		AGGCATTGCCTCAC		TTGGGAAGCGC
L1PA3 :	CGAGCC		GAAAGCAGGGCG		AGGCATTGCCTCAC		TCGGGAAGCGC
L1PA4 :	T		GAGCCGAAAGCAGGGCG		AGGCATTGCCTCAC		CCGGGAAGCGC
L1PA5 :	T		GAGCCGAAAGCAGGGCG		AGGCATTGCCTCAC		CCGGGAAGCGC
L1PA6 :	T		GAGCCGAAAGCAGGGCG		GAGGCATTGCCTCAC		CTGGGAAGCGC
	GAGCC		gAAGCAGGGCG		GAGGCATTGCCTCAC		GGGAAGCGC

220 * 240 *

L1PA1 : AAGGGGTCAGGGAGTTCCCTTTCCGAGTCAAAGAAAGGGGTG : 250
 L1PA2 : AAGGGGTCAGGGAGTTCCCTTTCCGAGTCAAAGAAAGGGGTG : 251
 L1PA3 : AAGGGGTCAGGGAGTTCCCTTTCCAGTCAAAGAAAGGGGTG : 252
 L1PA4 : AAGGGGTCAGGGAGTTCCCTTTCCAGTCAAAGAAAGGGGTG : 252
 L1PA5 : AAGGGGTCAGGGAGTTCCCTTTCCAGTCAAAGGAAGCTGTG : 252
 L1PA6 : AAGGGGTCAGGGAGTTCCCTTTCCAGTCAAAGGAAGCCGTG : 227

AAGGGGTCaGGGA TTCCCTTTCC AG CAA G AAG GTG

260 * 280 *

L1PA1 : ACGGACG-CACCTGGAAAAATCGGGTCACTCCCACCCGAATAT : 291
 L1PA2 : ACGGACG-CACCTGGAAAAATCGGGTCACTCCCACCCGAATAT : 292
 L1PA3 : ACAGACGGCACCTGGAAAAATCGGGTCACTCCCACCCTAATAC : 294
 L1PA4 : ACAGACGGCACCTGGAAAAATCGGGTCACTCCCACCCTAATAC : 294
 L1PA5 : ACAGACGGCACCTGGAAAAATCGGGTCACTCCCACCCTAATAC : 294
 L1PA6 : ACAGACTGTACCTGGAAAAACGGGACACTCCCGCCCAATAT : 269

AC GACg cACCTGGAAAAAtCGGGtCACTCCCaCCC AATA

300 * 320 *

L1PA1 : TGCCTTTTTTCAGACCGGCTTAAGAAACGGCGCACCACGAGAC : 333
 L1PA2 : TGCCTTTTTTCGACGGGCTTAAGAAACGGCGCACCACGAGAT : 334
 L1PA3 : TGCCTTTTTTCGACGGGCTTAAGAAACGGCGCACCAGGAGAT : 336
 L1PA4 : TGCCTTTTTTCGACGGGCTTAAGAAACGGCGCACCAGGAGAT : 336
 L1PA5 : TGCCTTTTTTCGACGGGCTTAAGAAACGGCGCACCAGGAGAT : 336
 L1PA6 : TGCCTTTTTTCGACGGGCTTAAGAAACGGCGCACCAGGAGAT : 311

TGCCTTTTTTCc A gG CTTA AAACGGC cACCA GAGAt

340 * 360 * 3

L1PA1 : TATATCCCGACACCTGGCTCGGAGGGTCCATACGCCACGGGAAT : 375
 L1PA2 : TATATCCCGCACCTGGCTCGGAGGGTCCATACGCCACGGAGT : 376
 L1PA3 : TATATCCCGCACCTGGCTCGGAGGGTCCATACGCCACGGAGT : 378
 L1PA4 : TATATCCCGCACCTGGCTCGGAGGGTCCATACGCCACGGAGC : 378
 L1PA5 : TATATCCCGCGCCTGGCTCGGAGGGTCCACGCCACGGAGC : 378
 L1PA6 : TATATCCCGGTGCCTGGCTCGGCGGGTCCACGCCCATGGAGC : 353

TATATCCCGc CCTGGCTCGGaGGGTCC ACGCCCAcGGAg

80 * 400 * 420

L1PA1 : CTCGCTGATTGCTAGCACAGCAGTCTGAGATCAAACCTGCAAG : 417
 L1PA2 : CTCGCTGATTGCTAGCACAGCAGTCTGAGATCAAACCTGCAAG : 418
 L1PA3 : CTCGCTGATTGCTAGCACAGCAGTCTGAGATCAAACCTGCAAG : 420
 L1PA4 : CTCGCTGATTGCTAGCACAGCAGTCTGAGATCAAACCTGCAAG : 420
 L1PA5 : CTCGCTGATTGCTAGCACAGCAGTCTGAGATCAAACCTGCAAG : 420
 L1PA6 : CTTGCTCACTGCTAGCGCAGCAGTCTGAGATCACCTGCAAG : 395

CTcGCT AtTGCTAGCaCAGCAGTCTGAGATC AaCTGCAAG

* 440 * 460

L1PA1 : GCGGCAACGAGGCTGGGGGAGGGGCGCCGCCATTGCCAGG : 459
 L1PA2 : GCGGCAGCGAGGCTGGGGGAGGGGCGCCGCCATTGCCAGG : 460
 L1PA3 : GCGGCAGCGAGGCTGGGGGAGGGGCGCCGCCATTGCCAGG : 462
 L1PA4 : GCGGCAGCGAGGCTGGGGGAGGGGCGCCGCCATTGCCAGG : 462
 L1PA5 : GCGGCAGCGAGGCTGGGGGAGGGGCGCCGCCATTGCTGAGG : 462
 L1PA6 : GCAAGCAGCTGGCAAGGGGAGGGGCGTCCACCATTGCTGAGG : 437
 GCgGCAgCgaGGCtGGGGGAGGGGCGcCCgCCATTGC AGG

* 480 * 500

L1PA1 : CTTGCTTAGGTAAACAAAGCAGCCGGGAAGCTCGAACTGGGT : 501
 L1PA2 : CTTGCTTAGGTAAACAAAGCAGCCGGGAAGCTCGAACTGGGT : 502
 L1PA3 : CTTGCTTAGGTAAACAAAGCAGCCGGGAAGCTCGAACTGGGT : 504
 L1PA4 : CTTGAGTAGGTAAACAAAGCAGCCGGGAAGCTCGAACTGGGT : 504
 L1PA5 : CTTGAGTAGGTAAACAAAGTAGCCGGGAAGCTCGAACTGGGT : 504
 L1PA6 : CTTGAGTAGGTAAACAAAGTGCCAGGAAGCTCGAACTGGGT : 479
 CTTG TAGGTAAACAAAG aGCCgGGAAGCTCGAACTGGGT

* 520 * 540

L1PA1 : GGAGCCCACCACAGCTCAAGGAGGCCTGCCGCTGCCTCTGTAGG : 543
 L1PA2 : GGAGCCCACCACAGCTCAAGGAGGCCTGCCGCTGCCTCTGTAGG : 544
 L1PA3 : GGAGCCCACCACAGCTCAAGGAGGCCTGCCGCTGCCTCTGTAGG : 546
 L1PA4 : GGAGCCCACCACAGCTCAAGGAGGCCTGCCGCTGCCTCTGTAGA : 546
 L1PA5 : GGAGCCCACCAGCAGCTCAAGGAGGCCTGCCGCTGCCTCTGTAGA : 546
 L1PA6 : GGAGCCCACCAGCAGCTCAGCAAGGCCTGCC-TGCCTCTGTAGA : 520
 GGAGCCCACC CAGCTCAaggAGGCCTGCCcTGCCTCTGTAG

* 560 * 580

L1PA1 : CTCCACCTCTGGGGGCAGGGCAAGACAAACAAAAAGACAGC : 585
 L1PA2 : CTCCACCTCTGGGGGCAGGGCAAGACAAACAAAAAGACAGC : 586
 L1PA3 : CTCCACCTCTGGGGGCAGGGCAAGACAAACAAAAAGACAGC : 588
 L1PA4 : CTCCACCTCTGGGGGCAGGGCAAGACAAACAAAAAGACAGC : 588
 L1PA5 : CTCCACCTCTGGGGGCAGGGCATAGCcaAACAAAAAGCAGC : 588
 L1PA6 : CTCCACCTCTGGGGGCAGGGCATAGCTGAACAAAA-GCAGC : 561
 CTCCACCTCTGGGGGCAGGGCA AG caAACAAAAaG CAGC

* 600 * 620 *

L1PA1 : AGTAACCTCTGCAGACTTAAAGTGTCCCTGTCTGACAGCTTTG : 627
 L1PA2 : AGTAACCTCTGCAGACTTAAATGTCCCTGTCTGACAGCTTTG : 628
 L1PA3 : AGTAACCTCTGCAGACTTAAATGTCCCTGTCTGACAGCTTTG : 630
 L1PA4 : AGTAACCTCTGCAGACTTAAATGTCCCTGTCTGACAGCTTTG : 630
 L1PA5 : AGAAACCTCTGCAGACTTAAATGTCCCTGTCTGACAGCTTTG : 630
 L1PA6 : AGAAACTTCTGCAGACTTAAACGTCCCTGTCTGACAGCTCTG : 603
 AG AACcTCTGCAGACTTAAatGTCCCTGTCTGACAGCTtTG

640 * 660 *

L1PA1 : AAGAGAGCAGTGGTTCTCCCAGCACGCAGCTGGAGATCTGAG : 669
 L1PA2 : AAGAGAGCAGTGGTTCTCCCAGCACGCAGCTGGAGATCTGAG : 670
 L1PA3 : AAGAGAGCAGTGGTTCTCCCAGCACGCAGCTGGAGATCTGAG : 672
 L1PA4 : AAGAGAGTAGTGGTTCTCCCAGCACGCAGCTGGAGATCTGAG : 672
 L1PA5 : AAGAGAGTAGTGGTTCTCCCAGCACGGAGTTTGGAGATCTGAG : 672
 L1PA6 : AAGAGAGCAGTGGTTCTCCCAGCACGGTGTTTGAGCTCTGAG : 645
 AAGAGAG AGTGGTTCTCCCAGCACG aG T GAGaTCTGAG

680 * 700 *

L1PA1 : AACGGGCAGACTGCCTCCTCAAGTGGGTCCCTGACTCCTGAC : 711
 L1PA2 : AACGGGCAGACTGCCTCCTCAAGTGGGTCCCTGACCCCTGAC : 712
 L1PA3 : AACGGGCAGACTGCCTCCTCAAGTGGGTCCCTGACCCCTGAC : 714
 L1PA4 : AACGGCAGACTGCCTCCTCAAGTGGGTCCCTGACCCCGAC : 713
 L1PA5 : AACGGACAGACTGCCTCCTCAAGTGGGTCCCTGACCC---- : 710
 L1PA6 : AACGGACAGACTGCCTCCTCAAGTGGGTCCCTGCC----- : 680
 AACGG CAGACTGCCTCCTCAAGTGGGTCCCTGaC cc

720 * 740 *

L1PA1 : CCCCGAGCAGCCTAACTGGGAGGCACCCCCAGCAGGGGCAC : 753
 L1PA2 : CCCCGAGCAGCCTAACTGGGAGGCACCCCCAGCAGGGGCAC : 754
 L1PA3 : CCCCGAGCAGCCTAACTGGGAGGCACCCCCAGTAGGGGCAG : 756
 L1PA4 : C--CAAGTAGCCTAACTGGGAGGCACCCCCAGTAGGGGCAG : 753
 L1PA5 : ---CGAGTAGCCTAACTGGGAGGCACCCCCAGTAGGGGCAG : 749
 L1PA6 : ---CGTGTAGCCTAACTGGGAGACACCTCCCAGTAGGGGCACA : 719
 CgaG AGCCTAACTGGGAGgCACCCCCAG AGGGGCa

760 * 780 * 8

L1PA1 : ACTGACACCTCACACGGCAGGGTATTCC----- : 781
 L1PA2 : ACTGACACCTCACACGGCAGGGTATTCC----- : 782
 L1PA3 : ACTGACACCTCACACGGCCGGGTACTCCCTCTGAGACAAAAC : 798
 L1PA4 : ACTGACACCTCACACGGCCGGGTACTCCCTCTGAGACAAAAC : 795
 L1PA5 : ACTGACACCTCACACGGCCGGGTACTCCCTCTGAGACGAAAC : 791
 L1PA6 : ACTGACACCTCATACAGGTGGGTGCCCTCTGGGACGAAGCT : 761
 ACTGACACCTCAcACgGc GGGTa CC

00 * 820 * 840

L1PA1 : ----- : -
 L1PA2 : ----- : -
 L1PA3 : TCCAGAGGAACGATCAGACAGCAGCATTCGCGGTTTACCAAA : 840
 L1PA4 : TCCAGAGGAACGATCAGGCAGCAGCATTTGCGGTTTACCAAT : 837
 L1PA5 : TCCAGAGGAACGATCAGGCAGCAACATTTGCGGTTTACCAAT : 833
 L1PA6 : TCCAGAGGAAGGATCAGGCAGCATG-----CAAT : 790

* 860 * 880

L1PA1 : ----- : -

L1PA2 : ----- : -

L1PA3 : ATCCGCTGTTCTGCAGCCACC GCTGCTGATACCCAGGCAAAC : 882

L1PA4 : ATCCGCTGTTCTGCAGCCACC GCTGCTGATACCCAGGCAAAC : 879

L1PA5 : ATTCGCTGTTCTGCAGCCTCC GCTGCTGATACCCAGGCAAAC : 875

L1PA6 : ATTTGCTGTTCTGCAGCCTCT GCTGGTGATACCCAGGCAAAC : 832

* 900 * 920

L1PA1 : ----- AACAGACCTGCA : 793

L1PA2 : ----- AACAGACCTGCA : 794

L1PA3 : AGGGTCTGGAGTGGACCTCTAGCAAACCTCC AACAGACCTGCA : 924

L1PA4 : AGGGTCTGGAGTGGACCTCCAGCAAACCTCC AACAGACCTGCA : 921

L1PA5 : AGGGTCTGGAGTGGACCTCCAGCAAACCTCC AACAGACCTGCA : 917

L1PA6 : AGGGTCTGGAGTGGACCTCCAGCAAACCTCC AACAGACCTGCA : 874

AACAGACCTGCA

* 940 * 960

L1PA1 : GCTGAGGGT CCTG TCTGTTAGAAGGAAAAC TAACAAC CAGAA : 835

L1PA2 : GCTGAGGGT CCTG TCTGTTAGAAGGAAAAC TAACAAC CAGAA : 836

L1PA3 : GCTGAGGGT CCTG TCTGTTAGAAGGAAAAC TAACAAC CAGAA : 966

L1PA4 : GCTGAGGGT CCTG ACTGTTAGAAGGAAAAC TAACAAC CAGAA : 963

L1PA5 : GCTGAGGGT CCTG ACTGTTAGAAGGAAAAC TAACAAC CAGAA : 959

L1PA6 : GCTGAGGGT CCTG ACTGTTAGAAGGAAAAC TAACAAC CAGAA : 916

GCTGAGGGT CCTG TCTGTTAGAAGGAAAAC TAACAAC CAGAA

* 980 * 1000

L1PA1 : AGGA ----- CATCTACACCGAA : 852

L1PA2 : AGGA ----- CATCCACACCAAA : 853

L1PA3 : AGGA ----- CATCCACACCAAA : 983

L1PA4 : AGGA ----- CATCCACACCAAA : 980

L1PA5 : AGGA ----- CATCCACACCAAA : 976

L1PA6 : AGGAATAGCATCAACATCAACAAAAGGA CATCCACACCAAA : 958

AGGA CATCCACACCAAA

* 1020 * 1040 *

L1PA1 : AACCCATCTGTACATCACCATT CATCAAAGACCAAAAGTAGAT : 894

L1PA2 : AACCCATCTGTACATCACCATT CATCAAAGACCAAAAGTAGAT : 895

L1PA3 : AACCCATCTGTACATCACCATT CATCAAAGACCAAAAGTAGAT : 1025

L1PA4 : AACCCATCTGTACGTCACCATT CATCAAAGACCAAAAGTAGAT : 1022

L1PA5 : ACCCATCTGTACGTCACCATT CATCAAAGACCAAAAGTAGAT : 1018

L1PA6 : ACCCATCTGTAGGTCACCATT CATCAAAGACCAAAAGTAGAT : 1000

A CCCATCTGTAC TCACCATT CATCAAAGACCAAA GTAGAT

1060 * 1080 *

L1PA1 : AAAACCACAAAGATGGGGAAAAACAGAACAGAAAAACTGGA : 936
 L1PA2 : AAAACCACAAAGATGGGGAAAAACAGAACAGAAAAACTGGA : 937
 L1PA3 : AAAACCACAAAGATGGGGAAAAACAGAACAGAAAAACTGGA : 1067
 L1PA4 : AAAACCACAAAGATGGGGAAAAACAGAACAGAAAAACTGGA : 1064
 L1PA5 : AAAACCACAAAGATGGGGAAAAACAGAACAGAAAAACTGGA : 1060
 L1PA6 : AAAACCACAAAGATGGGGAAACAGAACAGAAAAACTGGA : 1042
 AAAACCACAAAGATGGGGAAACAGAACAGAAAACTGA

1100 * 1120 *

L1PA1 : AACTCTAAAAACGAGAGCGCCTCTCTCCTCCTCCAAAGGAACGC : 978
 L1PA2 : AACTCTAAAAACGAGAGCGCCTCTCTCCTCCTCCAAAGGAACGC : 979
 L1PA3 : AACTCTAAAAACGAGAGCGCCTCTCTCCTCCTCCAAAGGAACGC : 1109
 L1PA4 : AACTCTAAAAACGAGAGCGCCTCTCTCCTCCTCCAAAGGAACGC : 1106
 L1PA5 : AACTCTAAAAACGAGAGCGCCTCTCTCCTCCTCCAAAGGAACGC : 1102
 L1PA6 : AACTCTAAAAACGAGAGCGCCTCTCTCCTCCTCCAAAGGAATTC : 1084
 AA TCTAAAAA CAGAGCGCCTCTCTCCTCCTCCAAAGGAACGC

1140 * 1160 *

L1PA1 : AGTTCCTCACCAGCAACGAACAAAGCTGGATGGAGAATGAT : 1020
 L1PA2 : AGTTCCTCACCAGCAACGAACAAAGCTGGATGGAGAATGAT : 1021
 L1PA3 : AGTTCCTCACCAGCAACGAACAAAGCTGGATGGAGAATGAT : 1151
 L1PA4 : AGTTCCTCACCAGCAACGAACAAAGCTGGATGGAGAATGAT : 1148
 L1PA5 : AGTTCCTCACCAGCAACGAACAAAGCTGGATGGAGAATGAT : 1144
 L1PA6 : AGTTCCTCACCAGCAACGAACAAAGCTGGATGGAGAATGAT : 1126
 AG TCTCaCCAGCAACgGAACAAAGCTGGATGGAGAATGAT

1180 * 1200 * 12

L1PA1 : TTTGACGAGCTGAGAGAAGAAGGCTTCAGACGATC----- : 1055
 L1PA2 : TTTGACGAGCTGAGAGAAGAAGGCTTCAGACGATC----- : 1056
 L1PA3 : TTTGACGAGTTGAGAGAAGAAGGCTTCAGACGATC----- : 1186
 L1PA4 : TTTGACGAGTTGAGAGAAGAAGGCTTCAGACGATC----- : 1183
 L1PA5 : TTTGACGAGTTGAGAGAAGAAGGCTTCAGACGATC----- : 1179
 L1PA6 : TTTGACGAGTTGACAGAAGTAGGCTTCAGAACGTCGGTAATA : 1168
 TTTGACGAG TGAGAGAAGaAGGCTTCAGAcGaTC

20 * 1240 * 1260

L1PA1 : --AAATTACTCTGAGCTACGGGAGGACATTCAAACCAAGGC : 1095
 L1PA2 : --AAATTACTCTGAGCTACGGGAGGACATTCAAACCAAGGC : 1096
 L1PA3 : --AAATTACTCTGAGCTACGGGAGGAAATTCAAACCAAGGC : 1226
 L1PA4 : --AAATTACTCTGAGCTAAAGGAGGAAGTTCAACCAATGGC : 1223
 L1PA5 : --AAATTCTCTGAGCTAAAGGAGGAAGTTCAACCATCAGC : 1219
 L1PA6 : ACAAACTTCTCTGAGCTAAAGGAGGATGTTCAACCATCAGC : 1210
 AAA T CTC GAGCTA GGAGGA TTC AACC A GC

* 1280 * 1300

L1PA1 : AAAGAAGTGTGAAAACCTTTGAAAAAAATTTAGAGAATGTATA : 1137
 L1PA2 : AAAGAAGTGTGAAAACCTTTGAAAAAAATTTAGAGAATGTATA : 1138
 L1PA3 : AAAGAAGTTAAAAACCTTTGAAAAAAATTTAGACGAATGTATA : 1268
 L1PA4 : AAAGAAGTTAAAAACCTTTGAAAAAAATTTAGACGAATGGCTA : 1265
 L1PA5 : AAAGAAGCTAAAAACCTTTGAAAAAAGATTAGACGAATGGCTA : 1261
 L1PA6 : AAGGAAGCTAAAAACCTTTGAAAAAAGATTAGACGAATGGCTA : 1252
 AAaGAAG T AAAAC TTGAAAAA TTAGA GAATG TA

* 1320 * 1340

L1PA1 : ACTAGAATAACCAATACAGAGAAGTGTCTTAAAGGAGCTGATG : 1179
 L1PA2 : ACTAGAATAACCAATACAGAGAAGTGTCTTAAAGGAGCTGATG : 1180
 L1PA3 : ACTAGAATAACCAATACAGAGAAGTGTCTTAAAGGAGCTGATG : 1310
 L1PA4 : ACTAGAATAACCAATGCAGAGAAGTCTCTTAAAGGACCTGATG : 1307
 L1PA5 : ACTAGAATAACCAAGTGTAGAGAAGTCTCTTAAATGACCTGATG : 1303
 L1PA6 : ACTAGAATAACCAAGTGTAGAGAAGACCTTAAATGACCTGATG : 1294
 ACTAGAATAAcCA T AGAGAAGt CTTAA GA CTGATG

* 1360 * 1380

L1PA1 : GAGCTGAAAACCAAGGCTCGAGAACTACGTGAAGAATGCAGA : 1221
 L1PA2 : GAGCTGAAAACCAAGGCTCGAGAACTACGTGAAGAATGCAGA : 1222
 L1PA3 : GAGCTGAAAACCAAGGCTCGAGAACTACGTGAAGAATGCAGA : 1352
 L1PA4 : GAGCTGAAAACCAAGGCAAGAGAACTACGTGACGAATGCACA : 1349
 L1PA5 : GAGCTGAAAACCATGGCAAGAGAACTACGTGACGAATGCACA : 1345
 L1PA6 : GAGCTGAAAACCATGGCAAGAGAACTACGTGACGCATGCACA : 1336
 GAGCTGAAAACCA GGC CGAGAACTACGTGA GaATGCA A

* 1400 * 1420

L1PA1 : AGCCTCAGGAGCCGATGCGATCAACTGGAAGAAAGGGTATCA : 1263
 L1PA2 : AGCCTCAGGAGCCGATGCGATCAACTGGAAGAAAGGGTATCA : 1264
 L1PA3 : AGCCTCAGGAGCCGATGCGATCAACTGGAAGAAAGGGTATCA : 1394
 L1PA4 : AGCCTCAGTAGCCGATGCGATCAACTGGAAGAAAGGGTATCA : 1391
 L1PA5 : AGCTTCAGTAGCCGATTGCGATCAACTGGAAGAAAGGGTATCA : 1387
 L1PA6 : AGCTTCATAGCCGATTGCGATCAAGTGAAGAAAGGGTATCA : 1378
 AGC TCAg AGCCGAT CGATCAAcTGAAGAAAGGGTATCA

* 1440 * 1460 *

L1PA1 : GCAATGGAAGATGAAATGAATGAAATGAAGCGAGAAGGGAAG : 1305
 L1PA2 : GCAATGGAAGATGAAATGAATGAAATGAAGCGAGAAGGGAAG : 1306
 L1PA3 : GTGATGGAAGATGAAATGAATGAAATGAAGCGAGAAGGGAAG : 1436
 L1PA4 : GTGATGGAAGATGAAATGAATGAAATGAAGCGAGAAGGGAAG : 1433
 L1PA5 : GTGATTGAAGATCAAATGAATGAAATGAAGCGAGAAGGGAAG : 1429
 L1PA6 : GTGATTGAAGATCAAATTAATGAAATAAAGCGAGAAGACAAAG : 1420
 G AT GAAGAT AAATgAATGAAATgAAGCGAGAAG gAAG

	1480	*	1500	*	
L1PA1 :	TTTAGAGAAAAAGAA	T	AAAAAGAAATGAG	C	CAAAGCCTCCAA : 1347
L1PA2 :	TTTAGAGAAAAAGAA	T	AAAAAGAAATGAG	C	CAAAGCCTCCAA : 1348
L1PA3 :	TTTAGAGAAAAAGAA	T	AAAAAGAAATGAA	A	CAAAGCCTCCAA : 1478
L1PA4 :	TTTAGAGAAAAAGAA	T	AAAAAGAAATGAA	A	CAAAGCCTCCAA : 1475
L1PA5 :	TTTAGAGAAAAAGAA	T	AAAAAGAAATGAA	A	CAAAGCCTCCAA : 1471
L1PA6 :	TTTAGAGAAAAAGAG	G	TAAAAAGAAATGAA	A	CAAAGCCTCCAA : 1462
	TTTAGAGAAAAAGAAaTAAAAAGAAATGA CAAAGCCTCCAA				

	1520	*	1540	*	
L1PA1 :	GAAATATGGGACTATGTGAAAAGACCAAATCTACGT	C	TGATT		: 1389
L1PA2 :	GAAATATGGGACTATGTGAAAAGACCAAATCTACGT	C	TGATT		: 1390
L1PA3 :	GAAATATGGGACTATGTGAAAAGACCAAATCTACGT	C	TGATT		: 1520
L1PA4 :	GAAATATGGGACTATGTGAAAAGACCAAATCTACGT	C	TGATT		: 1517
L1PA5 :	GAAATATGGGACTATGTGAAAAGACCAAATCTACGT	C	TGATT		: 1513
L1PA6 :	GAAATATGGGACTATGTGAAAAGACCAAATCTACGT	T	TGATT		: 1504
	GAAATATGGGACTATGTGAAAAGACCAAATCTACGTcTGATT				

	1560	*	1580	*	
L1PA1 :	GGTGTACCTGAAAGTGAT	G	TGGAGAATGGAACCAAGTTGGAA		: 1431
L1PA2 :	GGTGTACCTGAAAGTGAT	G	GGGAGAATGGAACCAAGTTGGAA		: 1432
L1PA3 :	GGTGTACCTGAAAGTGAC	G	GGGAGAATGGAACCAAGTTGGAA		: 1562
L1PA4 :	GGTGTACCTGAAAGTGAC	G	GGGAGAATGGAACCAAGTTGGAA		: 1559
L1PA5 :	GGTGTACCTGAAAGTGAC	G	GGGAGAATGGAACCAAGTTGGAA		: 1555
L1PA6 :	GGTGTACCTGAAAGTGAC	G	GGGAGAATGGAACCAAGTTGGAA		: 1546
	GGTGTACCTGAAAGTGA GgGGAGAATGGAACCAAGTTGGAA				

	1600	*	1620	*	16	
L1PA1 :	AACACTCTG	C	CAGGATATTATCCAGGAGAACTTCCCCAA	T	CTA	: 1473
L1PA2 :	AACACTCTG	C	CAGGATATTATCCAGGAGAACTTCCCCAA	T	CTA	: 1474
L1PA3 :	AACACTCTG	C	CAGGATATTATCCAGGAGAACTTCCCCAA	T	CTA	: 1604
L1PA4 :	AACACTCTG	C	CAGGATATTATCCAGGAGAACTTCCCCAA	T	CTA	: 1601
L1PA5 :	AACACTCTG	C	CAGGATATTATCCAGGAGAACTTCCCCAA	C	CTA	: 1597
L1PA6 :	AACACTCTT	C	CAGGATATTATCCAGGAGAACTTCCCCAA	C	CTA	: 1588
	AACACTCTgCAGGATATTATCCAGGAGAACTTCCCCAA CTA					

	40	*	1660	*	1680	
L1PA1 :	GCAAGGCAGGCCAAC	G	TTCA	ATT	CAGGAAATACAGAGAAC	G : 1515
L1PA2 :	GCAAGGCAGGCCAAC	G	TTCA	ATT	CAGGAAATACAGAGAAC	G : 1516
L1PA3 :	GCAAGGCAGGCCAAC	G	TTCA	ATT	CAGGAAATACAGAGAAC	G : 1646
L1PA4 :	GCAAGGCAGGCCAAC	G	TTCA	ATT	CAGGAAATACAGAGAAC	G : 1643
L1PA5 :	GCAAGGCAGGCCAAC	G	TTCA	ATT	CAGGAAATACAGAGAAC	G : 1639
L1PA6 :	GCAAGGCAGGCCAAC	A	TTCA	ATT	CAGGAAATACAGAGAAC	A : 1630
	GCAAGGCAGGCCAACgTTCA ATT					CAGGAAATACAGAGAACg

		*	1700	*	1720	
L1PA1	:	CCACAAAGATACTCCTCGAGAAGAGCAAC	T	CCAAGACACATA	:	1557
L1PA2	:	CCACAAAGATACTCCTCGAGAAGAGCAAC	T	CCAAGACACATA	:	1558
L1PA3	:	CCACAAAGATACTCCTCGAGAAGAGCAAC	T	CCAAGACACATA	:	1688
L1PA4	:	CCACAAAGATACTCCTCGAGAAGAGCAAC	T	CCAAGACACATA	:	1685
L1PA5	:	CCACAAAGATACTCCTCGAGAAGAGCAAC	T	CCAAGACACATA	:	1681
L1PA6	:	CCACAAAGATACTCCTCGAGAAGAGCAAC	C	CCAAGACACATA	:	1672
		CCACAAAGATACTCCTCGAGAAGAGCAACtCCAAGACACATA				

		*	1740	*	1760	
L1PA1	:	ATTGTCAGATTCACCAA	A	GTTGAAATGAAGGAAAAAATGTTA	:	1599
L1PA2	:	ATTGTCAGATTCACCAA	A	GTTGAAATGAAGGAAAAAATGTTA	:	1600
L1PA3	:	ATTGTCAGATTCACCAA	A	GTTGAAATGAAGGAAAAAATGTTA	:	1730
L1PA4	:	ATTGTCAGATTCACCAA	A	GTTGAAATGAAGGAAAAAATGTTA	:	1727
L1PA5	:	ATTGTCAGATTCACCAA	A	GTTGAAATGAAGGAAAAAATGTTA	:	1723
L1PA6	:	ATTGTCAGATTCACCAA	G	GTTGAAATGAAGGAAAAAATGTTA	:	1714
		ATTGTCAGATTCACCAAAgGTTGAAATGAAGGAAAAAATGTTA				

		*	1780	*	1800	
L1PA1	:	AGGGCAGCCAGAGAGAAAGGTCGGGTTACCC	T	CAAAGGAAG	:	1641
L1PA2	:	AGGGCAGCCAGAGAGAAAGGTCGGGTTACCC	T	CAAAGGGAAG	:	1642
L1PA3	:	AGGGCAGCCAGAGAGAAAGGTCGGGTTACCC	A	CAAAGGGAAG	:	1772
L1PA4	:	AGGGCAGCCAGAGAGAAAGGTCGGGTTACCC	A	CAAAGGGAAG	:	1769
L1PA5	:	AGGGCAGCCAGAGAGAAAGGTCGGGTTACCC	A	CAAAGGGAAG	:	1765
L1PA6	:	AGGGCAGCCAGAGAGAAAGGTCGGGTTACCC	A	CAAAGGGAAG	:	1756
		AGGGCAGCCAGAGAGAAAGGTCGGGTTACCC CAAAGGgAAG				

		*	1820	*	1840	
L1PA1	:	CCCATCAGACTAACAGCGGATCTCTC	G	GCAGAAAC	C	CTACAA : 1683
L1PA2	:	CCCATCAGACTAACAGCGGATCTCTC	G	GCAGAAAC	C	CTACAA : 1684
L1PA3	:	CCCATCAGACTAACAGCGGATCTCTC	G	GCAGAAAC	T	CTACAA : 1814
L1PA4	:	CCCATCAGACTAACAGCGGATCTCTC	G	GCAGAAAC	T	CTACAA : 1811
L1PA5	:	CCCATCAGACTAACAGCGGATCTCTC	G	GCAGAAAC	T	CTACAA : 1807
L1PA6	:	CCCATCAGACTAACAGCGGATCTCTC	A	GCAGAAAC	C	CTACAA : 1798
		CCCATCAGACTAACAGCGGATCTCTCgGCAGAAAC CTACAA				

		*	1860	*	1880	*	
L1PA1	:	GCCAGAAGAGAGTGGGGGCCAATATTCAACATTCTTAAAGAA					: 1725
L1PA2	:	GCCAGAAGAGAGTGGGGGCCAATATTCAACATTCTTAAAGAA					: 1726
L1PA3	:	GCCAGAAGAGAGTGGGGGCCAATATTCAACATTCTTAAAGAA					: 1856
L1PA4	:	GCCAGAAGAGAGTGGGGGCCAATATTCAACATTCTTAAAGAA					: 1853
L1PA5	:	GCCAGAAGAGAGTGGGGGCCAATATTCAACATTCTTAAAGAA					: 1849
L1PA6	:	GCCAGAAGAGAGTGGGGGCCAATATTCAACATTCTTAAAGAA					: 1840
		GCCAGAAGAGAGTGGGGGCCAATATTCAACATTCTTAAAGAA					

1900 * 1920 *

L1PA1 : AAGAATTTTCAACCCAGAATTTTCATATCCAGCCAAACTAAGC : 1767
 L1PA2 : AAGAATTTTCAACCCAGAATTTTCATATCCAGCCAAACTAAGC : 1768
 L1PA3 : AAGAATTTTCAACCCAGAATTTTCATATCCAGCCAAACTAAGC : 1898
 L1PA4 : AAGAATTTTCAACCCAGAATTTTCATATCCAGCCAAACTAAGC : 1895
 L1PA5 : AAGAATTTTCAACCCAGAATTTTCATATCCAGCCAAACTAAGC : 1891
 L1PA6 : AAGAATTTTCAACCCAGAATTTTCATATCCAGCCAAACTAAGC : 1882
 AAGAATTTTCAACCCAGAATTTTCATATCCAGCCAAACTAAGC

1940 * 1960 *

L1PA1 : TTCATAAGTGAAGGAGAAATAAAATACCTTTATAGACAAGCAA : 1809
 L1PA2 : TTCATAAGTGAAGGAGAAATAAAATACCTTTACAGACAAGCAA : 1810
 L1PA3 : TTCATAAGTGAAGGAGAAATAAAATACCTTTACAGACAAGCAA : 1940
 L1PA4 : TTCATAAGTGAAGGAGAAATAAAATACCTTTACAGACAAGCAA : 1937
 L1PA5 : TTCATAAGTGAAGGAGAAATAAAATCCTTTACAGACAAGCAA : 1933
 L1PA6 : TTCATAAGTGAAGGAGAAATAAAATCCTTTACAGACAAGCAA : 1924
 TTCATAAGTGAAGGAGAAATAAAAT CTTTAcAGACAAGCAA

1980 * 2000 *

L1PA1 : ATGCTGAGAGATTTTGTCCACCAGGCCTGCCCTAAAGAG : 1851
 L1PA2 : ATGCTGAGAGATTTTGTCCACCAGGCCTGCCCTAAAGAG : 1852
 L1PA3 : ATGCTGAGAGATTTTGTCCACCAGGCCTGCCCTAAAGAG : 1982
 L1PA4 : ATGCTGAGAGATTTTGTCCACCAGGCCTGCCCTAAAGAG : 1979
 L1PA5 : ATGCTGAGAGATTTTGTCCACCAGGCCTGCCCTACCAAGAG : 1975
 L1PA6 : ATGCTGAGAGATTTTGTCCACCAGGCCTGCCCTACCAAGAG : 1966
 ATGcTGAGAGATTTTGTCCACCAGGCCTGCCcTA AAGAG

2020 * 2040 * 20

L1PA1 : CTCCTGAAGGAAGCGCTAAACATGGAAAGGAACAACCGGTAC : 1893
 L1PA2 : CTCCTGAAGGAAGCGCTAAACATGGAAAGGAACAACCGGTAC : 1894
 L1PA3 : CTCCTGAAGGAAGCGCTAAACATGGAAAGGAACAACCGGTAC : 2024
 L1PA4 : CTCCTGAAGGAAGCGCTAAACATGGAAAGGAACAACCGGTAC : 2021
 L1PA5 : CTCCTGAAGGAAGCGCTAAACATGGAAAGGAACAACCGGTAC : 2017
 L1PA6 : CTCCTGAAGGAAGCACTAAACATGGAAAGGAACAACCGGTAC : 2008
 CTCCTGAAGGAAGCgCTAAACATGGAAAGGAACAACCGGTAC

60 * 2080 * 2100

L1PA1 : CAGCCGCTGCAAAATCATGCCAAATGTAAAGACCATCGAGA : 1935
 L1PA2 : CAGCCGCTGCAAAATCATGCCAAATGTAAAGACCATCGAGA : 1936
 L1PA3 : CAGCCACTGCAAAATCATGCCAAATGTAAAGACCATCGAGG : 2066
 L1PA4 : CAGCCACTGCAAAACATGCCAAATGTAAAGACCATCGAGG : 2063
 L1PA5 : CAGCCACTGCAAAACATGCCAAATGTAAAGACCATCGATG : 2059
 L1PA6 : CAGCCACTGCAAAACATGCCAAATGTAAAGACCATCGATG : 2050
 CAGCC CTGCAAAA CATGCCAAA TGTAAAGACCATCGA

		*	2120	*	2140	
L1PA1	:	CTAGGAAGAACTGCATCAACTAA	T	GAGCAAAAT	C	ACCAGCT : 1977
L1PA2	:	CTAGGAAGAACTGCATCAACTAA	C	GAGCAAAAT	C	ACCAGCT : 1978
L1PA3	:	CTAGGAAGAACTGCATCAACTAAC	G	GAGCAAAAT	A	ACCAGCT : 2108
L1PA4	:	CTAGGAAGAACTGCATCAACTAAC	G	GAGCAAAAT	A	ACCAGCT : 2105
L1PA5	:	CTAGGAAGAACTGCATCAACTAAC	G	GAGCAAAAT	A	ACCAGCT : 2101
L1PA6	:	CTAGGAAGAACTGCATCAACTAAC	G	GAGCAAAAT	A	ACCAGCT : 2092
		CTAGGAAGAACTGCATCAACTAAcGaGCAAAAT ACCAGCT				

		*	2160	*	2180	
L1PA1	:	AACATCATAATGACAGGATCAAATTCACACATAACAATATTA				: 2019
L1PA2	:	AACATCATAATGACAGGATCAAATTCACACATAACAATATTA				: 2020
L1PA3	:	AACATCATAATGACAGGATCAAATTCACACATAACAATATTA				: 2150
L1PA4	:	AACATCATAATGACAGGATCAAATTCACACATAACAATATTA				: 2147
L1PA5	:	AACATCATAATGACAGGATCAAATTCACACATAACAATATTA				: 2143
L1PA6	:	AACATCATAATGACAGGATCAAATTCACACATAACAATATTA				: 2134
		AACATCATAATGACAGGATCAAATTCACACATAACAATATTA				

		*	2200	*	2220	
L1PA1	:	ACTTTAAATA	TAAATGGA	CTAAATT	CTG	CAATTAAAAGACAC : 2061
L1PA2	:	ACTTTAAAT	GTAAATGGA	CTAAATG	CTC	CAATTAAAAGACAC : 2062
L1PA3	:	ACTTTAAAT	GTAAATGGA	CTAAATG	CTC	CAATTAAAAGACAC : 2192
L1PA4	:	ACCTTAAAT	GTAAATGGG	CTAAATG	CTC	CAATTAAAAGACAC : 2189
L1PA5	:	ACCTTAAAT	GTAAATGGG	CTAAATG	CTC	CAATTAAAAGACAC : 2185
L1PA6	:	ACCTTAAAT	GTAAATGGG	CTAAATG	CC	CAATTAAAAGACAC : 2176
		AC TTAAATgTAAATGG CTAAATgCtcCAATTAAAAGACAC				

		*	2240	*	2260	
L1PA1	:	AGACTGGCAA	GTTGGATAAAGAGTCAAGACCCATCAGTGTGC			: 2103
L1PA2	:	AGACTGGCAA	ATTGGATAAAGAGTCAAGACCCATCAGTGTGC			: 2104
L1PA3	:	AGACTGGCAA	ATTGGATAAAGAGTCAAGACCCATCAGTGTGC			: 2234
L1PA4	:	AGACTGGCAA	ATTGGATAAAGAGTCAAGACCCATCAGTGTGC			: 2231
L1PA5	:	AGACTGGCAA	ATTGGATAAAGAGTCAAGACCCATCAGTGTGC			: 2227
L1PA6	:	AGACTGGCAA	ATTGGATAAAGAGTCAAGACCCATCAGTGTGC			: 2218
		AGACTGGCAAaTTGGATAAAGAGTCAAGACCCATCAGTGTGC				

		*	2280	*	2300	*	
L1PA1	:	TGTATTCAGGA	AACCCATCTCACGTGCAGAGACACACATAGG				: 2145
L1PA2	:	TGTATTCAGGA	AACCCATCTCACGTGCAGAGACACACATAGG				: 2146
L1PA3	:	TGTATTCAGGA	AACCCATCTCACGTGCAGAGACACACATAGG				: 2276
L1PA4	:	TGTATTCAGGA	AACCCATCTCACGTGCAGAGACACACATAGG				: 2273
L1PA5	:	TGTATTCAGGAG	AACCCATCTCACGTGCAGAGACACACATAGG				: 2269
L1PA6	:	TGTATTCAGGAG	AACCCATCTCACGTGCAGAGACACACATAGG				: 2260
		TGTATTCAGGA AACCCATCTCACGTGCAGAGACACACATAGG					

	2320	*	2340	*	
L1PA1 :	CTCAAATAAAA	GGATGGAGGAAGATCTACCAAGC	CAATGGA	:	2187
L1PA2 :	CTCAAATAAAA	GGATGGAGGAAGATCTACCAAGC	AAATGGA	:	2188
L1PA3 :	CTCAAATAAAA	GGATGGAGGAAGATCTACCAAGC	AAATGGA	:	2318
L1PA4 :	CTCAAATAAAG	GGATGGAGGAAGATCTACCAAGC	AAATGGA	:	2315
L1PA5 :	CTCAAATAAAG	GGATGGAGGAAGATCTACCAAGC	AAATGGA	:	2311
L1PA6 :	CTCAAATAAAG	GGATGGAGGAAGATCTACCAAGC	AAATGGA	:	2302
	CTCAAATAAAA	GGATGGAGGAAGATCTACCAAGC	aAAATGGA		

	2360	*	2380	*	
L1PA1 :	AAACAAAAAAG	GCAGGGGTTGCAATCCTAGTCTCTGATAAA	:	2229	
L1PA2 :	AAACAAAAAAG	GCAGGGGTTGCAATCCTAGTCTCTGATAAA	:	2230	
L1PA3 :	AAACAAAAAAG	GCAGGGGTTGCAATCCTAGTCTCTGATAAA	:	2360	
L1PA4 :	AAACAAAAAAG	GCAGGGGTTGCAATCCTAGTCTCTGATAAA	:	2357	
L1PA5 :	AAACAAAAAAG	GCAGGGGTTGCAATCCTAGTCTCTGATAAA	:	2353	
L1PA6 :	AAACAAAAAAG	GCAGGGGTTGCAATCCTAGTCTCTGATAAA	:	2344	
	AAaCAAAAAAAG	GCAGGGGTTGCAATCCTAGTCTCTGATAAA			

	2400	*	2420	*	
L1PA1 :	ACAGACTTTAAACCAACAAAGATCAAAAAGAGACAAAGAAGGC	:	2271		
L1PA2 :	ACAGACTTTAAACCAACAAAGATCAAAAAGAGACAAAGAAGGC	:	2272		
L1PA3 :	ACAGACTTTAAACCAACAAAGATCAAAAAGAGACAAAGAAGGC	:	2402		
L1PA4 :	ACAGACTTTAAACCAACAAAGATCAAAAAGAGACAAAGAAGGC	:	2399		
L1PA5 :	ACAGACTTTAAACCAACAAAGATCAAAAAGAGACAAAGAAGGC	:	2395		
L1PA6 :	ACAGACTTTAAACCAACAAAGATCAAAAAGAGACAAAGAAGGC	:	2386		
	ACAGACTTTAAACCAACAAAGATCAAAAAGAGACAAAGAAGGC				

	2440	*	2460	*	24	
L1PA1 :	CATTACATAATGGTAAAGGGATCAATTCAACAAGAG	GAGCTA	:	2313		
L1PA2 :	CATTACATAATGGTAAAGGGATCAATTCAACAAGAA	GAGCTA	:	2314		
L1PA3 :	CATTACATAATGGTAAAGGGATCAATTCAACAAGAA	GAGCTA	:	2444		
L1PA4 :	CATTACATAATGGTAAAGGGATCAATTCAACAAGAA	GAGCTA	:	2441		
L1PA5 :	CATTACATAATGGTAAAGGGATCAATTCAACAAGAA	GAGCTA	:	2437		
L1PA6 :	CATTACATAATGGTAAAGGGATCAATTCAACAAGAA	GAGCTA	:	2428		
	CATTACATAATGGTAAAGGGATCAATTCAACAAGAA	aGAGCTA				

	80	*	2500	*	2520	
L1PA1 :	ACTATCCTAAATAT	TATATGCACCCAATACAGGAGCACCCAGA	:	2355		
L1PA2 :	ACTATCCTAAATAT	TATATGCACCCAATACAGGAGCACCCAGA	:	2356		
L1PA3 :	ACTATCCTAAATAT	TATATGCACCCAATACAGGAGCACCCAGA	:	2486		
L1PA4 :	ACTATCCTAAATAT	TATATGCACCCAATACAGGAGCACCCAGA	:	2483		
L1PA5 :	ACTATCCTAAATAT	TATATGCACCCAATACAGGAGCACCCAGA	:	2479		
L1PA6 :	ACTATCCTAAATAT	TATATGCACCCAATACAGGAGCACCCAGA	:	2470		
	ACTATCCTAAATAT	aTATATGCACCCAATACAGGAGCACCCAGA				

		*	2540	*	2560	
L1PA1	:	TTCATAAAGCAAGTCCT	CAGT	GACCTACAAAGAGACTTAGAC	:	2397
L1PA2	:	TTCATAAAGCAAGTCCT	GAGT	GACCTACAAAGAGACTTAGAC	:	2398
L1PA3	:	TTCATAAAGCAAGTCCT	GAGT	GACCTACAAAGAGACTTAGAC	:	2528
L1PA4	:	TTCATAAAGCAAGTCCT	TAGT	GACCTACAAAGAGACTTAGAC	:	2525
L1PA5	:	TTCATAAAGCAAGTCCT	TAGA	GACCTACAAAGAGACTTAGAC	:	2521
L1PA6	:	TTCATAAAGCAAGTCCT	TAGA	GACCTACAAAGAGACTTAGAC	:	2512
		TTCATAAAGCAAGTCCT AG GACCTACAAAGAGACTTAGAC				

		*	2580	*	2600	
L1PA1	:	TCCCACACAT	TAATAATGGGAGACTTTAACACCCC	ACTGTCA	:	2439
L1PA2	:	TCCCACACAT	TAATAATGGGAGACTTTAACACCCC	ACTGTCA	:	2440
L1PA3	:	TCCCACACA	TAATAATGGGAGACTTTAACACCCC	ACTGTCA	:	2570
L1PA4	:	TCCCACACA	TAATAATGGGAGACTTTAACACCCC	ACTGTCA	:	2567
L1PA5	:	TCCCACACA	TAATAATGGGAGACTTTAACACCCC	ACTGTCA	:	2563
L1PA6	:	TCCCACACA	TAATAATGGGAGACTTTAACACCCC	ACTGTCA	:	2554
		TCCCACACA TAATAATGGGAGACTTTAACACCCC				

		*	2620	*	2640	
L1PA1	:	ACATTAGACAGATCAACGAGACAGAA	AGT	CAACAAGGATAC	C	: 2481
L1PA2	:	ACATTAGACAGATCAACGAGACAGAA	AGT	CAACAAGGATAC	C	: 2482
L1PA3	:	ACATTAGACAGATCAACGAGACAGAA	AGT	TAACAAGGATAC	C	: 2612
L1PA4	:	ACATTAGACAGATCAACGAGACAGAA	AGT	TAACAAGGATAT	C	: 2609
L1PA5	:	ACATTAGACAGATCAACGAGACAGAA	AGT	TAACAAGGATAT	C	: 2605
L1PA6	:	ATATTAGACAGATCAACGAGACAGAA	AGT	TAACAAGGATAT	C	: 2596
		AcATTAGACAGATCAACGAGACAGAAaGT AACAAAGGATA C				

		*	2660	*	2680	
L1PA1	:	CAGGAATTGAACTCAGCTCTGCACCAAGC	AGACCTAATAGAC	:	2523	
L1PA2	:	CAGGAATTGAACTCAGCTCTGCACCAAGC	GGACCTAATAGAC	:	2524	
L1PA3	:	CAGGAATTGAACTCAGCTCTGCACCAAGC	GGACCTAATAGAC	:	2654	
L1PA4	:	CAGGAATTGAACTCAGCTCTGCACCAAGC	GGACCTAATAGAC	:	2651	
L1PA5	:	CAGGAATTGAACTCAGCTCTGCACCAAGC	GGACCTAATAGAC	:	2647	
L1PA6	:	CAGGACCTTGA	ACTCAGCTCTGCACCAAGC	GGACCTAATAGAC	:	2638
		CAGGAaTTGAACTCAGCTCTGCACCAAGCgGACCTAATAGAC				

		*	2700	*	2720	*	
L1PA1	:	ATCTACAGAACTCTCCACCCCAAATCAACAGAATATA	CATT	T	:	2565	
L1PA2	:	ATCTACAGAACTCTCCACCCCAAATCAACAGAATATA	CATT	T	:	2566	
L1PA3	:	ATCTACAGAACTCTCCACCCCAAATCAACAGAATATA	CATT	T	:	2696	
L1PA4	:	ATCTACAGAACTCTCCACCCCAAATCAACAGAATATA	CATT	C	:	2693	
L1PA5	:	ATCTACAGAACTCTCCACCCCAAATCAACAGAATATA	CATT	C	:	2689	
L1PA6	:	ATCTACAGAACTCTCCACCCCAAATCAACAGAATATA	CATT	C	:	2680	
		ATCTACAGAACTCTCCACCCCAAATCAACAGAATATA					

2740 * 2760 *

L1PA1 : TTTTCAGCACCACACCCACACCTATTCCAAAATTGACCACATA : 2607
 L1PA2 : TTTTCAGCACCACACCCACACCTATTCCAAAATTGACCACATA : 2608
 L1PA3 : TTTTCAGCACCACACCCACACCTATTCCAAAATTGACCACATA : 2738
 L1PA4 : TTTTCAGCACCACACCCACACCTATTCCAAAATTGACCACATA : 2735
 L1PA5 : TTC TCAGCACCACATTCACACTTATTCCAAAATTGACCACATA : 2731
 L1PA6 : TTC TCAGCACCACATTCGCACTTATTCCAAAATTGACCACATA : 2722
 TT TCAGCACCACA CaCAC TATTCCAAAATTGACCACATA

2780 * 2800 *

L1PA1 : GTTGAAGTAAAGCTCTCCTCAGCAAATGTAAAAGAACAGAA : 2649
 L1PA2 : CTTGAAGTAAAGCTCTCCTCAGCAAATGTAAAAGAACAGAA : 2650
 L1PA3 : GTTGAAGTAAAGCTCTCCTCAGCAAATGTAAAAGAACAGAA : 2780
 L1PA4 : GTTGAAGTAAAGCACTCCTCAGCAAATGTAAAAGAACAGAA : 2777
 L1PA5 : GTTGAAGTAAAGCACTCCTCAGCAAATGTAAAAGAACAGAA : 2773
 L1PA6 : ATTGAAGTAAAGCACTCCTCAGCAAATGTAAAAGAACAGAA : 2764
 TTGAAGTAAAGC CTCCTCAGCAAATGTAAAAGAACAGAA

2820 * 2840 *

L1PA1 : ATTATAACAAACTATCTCTCAGACCACAGTGCAATCAAACCTA : 2691
 L1PA2 : ATTATAACAAACTATCTCTCAGACCACAGTGCAATCAAACCTA : 2692
 L1PA3 : ATTATAACAAACTGTCTCTCAGACCACAGTGCAATCAAACCTA : 2822
 L1PA4 : ATTATAACAAACTGTCTCTCAGACCACAGTGCAATCAAACCTA : 2819
 L1PA5 : ATTATAACAAACTGTCTCTCAGACCACAGTGCAATCAAACCTA : 2815
 L1PA6 : ATCAACAACAAACTGTCTCTCAGACCACAGTGCAATCAAATTA : 2806
 ATtAtAACAAACT TCTCTCAGACCACAGTGCAATCAAACtTA

2860 * 2880 * 29

L1PA1 : GAACTCAGGATTAAGAACTCTCACTCAAAAGCCGCTCAACTACA : 2733
 L1PA2 : GAACTCAGGATTAAGAACTCTCACTCAAAACCGCTCAACTACA : 2734
 L1PA3 : GAACTCAGGATTAAGAACTCTCACTCAAAACCGCTCAACTACA : 2864
 L1PA4 : GAACTCAGGATTAAGAACTCTCACTCAAAACCGCTCAACTACA : 2861
 L1PA5 : GAACTCAGGATTAAGAACTCTCACTCAAAACCGCTCAACTACA : 2857
 L1PA6 : GAACTCAGGATTAAGAACTCTCACTCAAAACCGCACTCAACTACA : 2848
 GAACTCAGGATTAAGAA CTCACTCAAAaCCGCTCAACTACA

00 * 2920 * 2940

L1PA1 : TGGAAACTGAACAACCTGCTCCTGAATGACTACTGGGTACAT : 2775
 L1PA2 : TGGAAACTGAACAACCTGCTCCTGAATGACTACTGGGTACAT : 2776
 L1PA3 : TGGAAACTGAACAACCTGCTCCTGAATGACTACTGGGTACAT : 2906
 L1PA4 : TGGAAACTGAACAACCTGCTCCTGAATGACTACTGGGTACAT : 2903
 L1PA5 : TGGAAACTGAACAACCTGCTCCTGAATGACTACTGGGTACAT : 2899
 L1PA6 : TGGAAACTGAACAACCTGCTCCTGAATGACTACTGGGTAAAT : 2890
 TGGAAACTGAACAACCTGCTCCTGAATGACTACTGGGTAcAT

		*	2960	*	2980	
L1PA1	:	AACGAAATGAAGGCAGAAATAAAGATGTTCTTTGAAACCAAC				: 2817
L1PA2	:	AACGAAATGAAGGCAGAAATAAAGATGTTCTTTGAAACCAAC				: 2818
L1PA3	:	AACGAAATGAAGGCAGAAATAAAGATGTTCTTTGAAACCAAC				: 2948
L1PA4	:	AACGAAATGAAGGCAGAAATAAAGATGTTCTTTGAAACCAAC				: 2945
L1PA5	:	AACGAAATGAAGGCAGAAATAAAGATGTTCTTTGAAACCAAC				: 2941
L1PA6	:	AACGAAATGAAGGCAGAAATAAAGATGTTCTTTGAAACCAAT				: 2932
		AACGAAATGAAGGCAGAAATAAAGATGTTCTTTGAAACCAAc				

		*	3000	*	3020	
L1PA1	:	GAGAACAAAGACACCAACATACCAGAATCTCTGGGACGCATT				: 2859
L1PA2	:	GAGAACAAAGACACCAACATACCAGAATCTCTGGGACGCATT				: 2860
L1PA3	:	GAGAACAAAGACACCAACATACCAGAATCTCTGGGACGCATT				: 2990
L1PA4	:	GAGAACAAAGACACCAACATACCAGAATCTCTGGGACGCATT				: 2987
L1PA5	:	GAGAACAAAGACACCAACATACCAGAATCTCTGGGACGCATT				: 2983
L1PA6	:	GAGAACAAAGACACCAACGATACCAGAATCTCTGGGACGCATT				: 2974
		GAGAACAAAGACACaCaTACCAGAATCTCTGGGACgCATT				

		*	3040	*	3060	
L1PA1	:	AAAGCAGTGTGTAGAGGGAAATTTATAGCACTAAATGCC				: 2901
L1PA2	:	AAAGCAGTGTGTAGAGGGAAATTTATAGCACTAAATGCC				: 2902
L1PA3	:	AAAGCAGTGTGTAGAGGGAAATTTATAGCACTAAATGCC				: 3032
L1PA4	:	AAAGCAGTGTGTAGAGGGAAATTTATAGCACTAAATGCC				: 3029
L1PA5	:	AAAGCAGTGTGTAGAGGGAAATTTATAGCACTAAATGCC				: 3025
L1PA6	:	AAAGCAGTGTGTAGAGGGAAATTTATAGCACTAAATGCC				: 3016
		AAAGCAGTGTGTAGAGGGAAATTTATAGCACTAAATGCCcAC				

		*	3080	*	3100	
L1PA1	:	AAGAGAAAGCAGGAAAGATCCAAAATTGACACCCTAACATCA				: 2943
L1PA2	:	AAGAGAAAGCAGGAAAGATCCAAAATTGACACCCTAACATCA				: 2944
L1PA3	:	AAGAGAAAGCAGGAAAGATCCAAAATTGACACCCTAACATCA				: 3074
L1PA4	:	AAGAGAAAGCAGGAAAGATCTAAAATTGACACCCTAACATCA				: 3071
L1PA5	:	AAGAGAAAGCAGGAAAGATCTAAAATTGACACCCTAACATCA				: 3067
L1PA6	:	AAGAGAAAGCAGGAAAGATCTAAAATCGACACCCTAACATCA				: 3058
		AAGAGAAAGCAGGAAAGATC AAAATtGACACCCTAACATCA				

		*	3120	*	3140	*	
L1PA1	:	CAATTAAAAGAACTAGAAAGCAAGAGCAAACACATTCAAAA				: 2985	
L1PA2	:	CAATTAAAAGAACTAGAAAGCAAGAGCAAACACATTCAAAA				: 2986	
L1PA3	:	CAATTAAAAGAACTAGAAAGCAAGAGCAAACACATTCAAAA				: 3116	
L1PA4	:	CAATTAAAAGAACTAGAGAAAGCAAGAGCAAACACATTCAAAA				: 3113	
L1PA5	:	CAATTAAAAGAACTAGAGAAAGCAAGAGCAAACACATTCAAAA				: 3109	
L1PA6	:	CAATTAAAAGAACTAGAGAAAGCAAGAGCAAACAAATTCAAAA				: 3100	
		CAATTAAAAGAACTAGA AAGCAAGAGCAAACAcATTCAAAA					

	3160	*	3180	*	
L1PA1 :	GCTAGCAGAAGGCAAGAAATAACTAA		AATCAGAGCAGA	ACTG	: 3027
L1PA2 :	GCTAGCAGAAGGCAAGAAATAACTAA		AATCAGAGCAGA	ACTG	: 3028
L1PA3 :	GCTAGCAGAAGGCAAGAAATAACTAA		AATCAGAGCAGA	ACTG	: 3158
L1PA4 :	GCTAGCAGAAGGCAAGAAATAACTAAG		ATCAGAGCAGA	ACTG	: 3155
L1PA5 :	GCTAGCAGAAGGCAAGAAATAACTAAG		ATCAGAGCAGA	ACTG	: 3151
L1PA6 :	GCTAGCAGAAGGCAAGAAATAACTAAG		ATCAGAGCAGA	ACTG	: 3142
	GCTAGCAGAAGGCAAGAAATAACTAA ATCAGAGCAGA				

	3200	*	3220	*	
L1PA1 :	AAGGAAATAGAGACACAAAAAACCTTCAAAAAAT		CAATGAA		: 3069
L1PA2 :	AAGGAAATAGAGACACAAAAAACCTTCAAAAAAT		TAAATGAA		: 3070
L1PA3 :	AAGGAAATAGAGACACAAAAAACCTTCAAAAAAT		TAAATGAA		: 3200
L1PA4 :	AAGGAAATAGAGACACAAAAAACCTTCAAAAAAT		CAATGAA		: 3197
L1PA5 :	AAGGAGATAGAGACACAAAAAACCTTCAAAAAAT		CAATGAA		: 3193
L1PA6 :	AAGGAGATAGAGACACAAAAAACCTTCAAAAAAT		CAATGAA		: 3184
	AAGGA ATAGAGACACAAAAAACCTTCAAAAAAT AATGAA				

	3240	*	3260	*	
L1PA1 :	TCCAGGAGCTGGTTTTTTTGAAAG		GATCAACAAAATTGATAGA		: 3111
L1PA2 :	TCCAGGAGCTGGTTTTTTTGAAAG		GATCAACAAAATTGATAGA		: 3112
L1PA3 :	TCCAGGAGCTGGTTTTTTTGAAAG		GATCAACAAAATTGATAGA		: 3242
L1PA4 :	TCCAGGAGCTGGTTTTTTTGAAAG		GATCAACAAAATTGATAGA		: 3239
L1PA5 :	TCCAGGAGCTGGTTTTTTTGAAAG		GATCAACAAAATTGATAGA		: 3235
L1PA6 :	TCCAGGAGCTGGTTTTTTTGAAAG		GATCAACAAAATTGATAGA		: 3226
	TCCAGGAGCTGGTTTTTTTGAAAG GATCAACAAAATTGATAGA				

	3280	*	3300	*	33	
L1PA1 :	CCGCTAGCAAGACTAATAAAGAA		AAAAAGAGAGAAGAATCAA			: 3153
L1PA2 :	CCGCTAGCAAGACTAATAAAGAA		AAAAAGAGAGAAGAATCAA			: 3154
L1PA3 :	CCGCTAGCAAGACTAATAAAGAA		GAAAAAGAGAGAAGAATCAA			: 3284
L1PA4 :	CCGCTAGCAAGACTAATAAAGAA		GAAAAAGAGAGAAGAATCAA			: 3281
L1PA5 :	CCGCTAGCAAGACTAATAAAGAA		GAAAAAGAGAGAAGAATCAA			: 3277
L1PA6 :	CCACTAGCAAGACTAATAAAGAA		GAAAAAGAGAGAAGAATCAA			: 3268
	CCgCTAGCAAGACTAATAAAGAA AAAAGAGAGAAGAATCAA					

	20	*	3340	*	3360	
L1PA1 :	ATAGACA		CAATAAAAAAATGATAAAGGGGATATCACCACCGAT			: 3195
L1PA2 :	ATAGACA		CAATAAAAAAATGATAAAGGGGATATCACCACCGAT			: 3196
L1PA3 :	ATAGACG		CAATAAAAAAATGATAAAGGGGATATCACCACCGAT			: 3326
L1PA4 :	ATAGACG		CAATAAAAAAATGATAAAGGGGATATCACCACCGAT			: 3323
L1PA5 :	ATAGACG		CAATAAAAAAATGATAAAGGGGATATCACCACCGAT			: 3319
L1PA6 :	ATAGACG		CAATAAAAAAATGATAAAGGGGATATCACCACCGAT			: 3310
	ATAGAC CAATAAAAAAATGATAAAGGGGATATCACCACCGAT					

* 3380 * 3400

L1PA1 : CCCACAGAAATACAAACTACCATCAGAGAATACTACAAACAC : 3237
L1PA2 : CCCACAGAAATACAAACTACCATCAGAGAATACTACAAACAC : 3238
L1PA3 : CCCACAGAAATACAAACTACCATCAGAGAATACTACAAACAC : 3368
L1PA4 : CCCACAGAAATACAAACTACCATCAGAGAATACTATAAACAC : 3365
L1PA5 : CCCACAGAAATACAAACTACCATCAGAGAATACTATAAACAC : 3361
L1PA6 : CCCACAGAAATACAAACTACCATCAGAGAATACTATAAACAC : 3352
CCCACAGAAATACAAACTACCATCAGAGAATACTA AAACAC

* 3420 * 3440

L1PA1 : CTCTACGCAAATAAACTAGAAAATCTAGAAGAAATGGATACA : 3279
L1PA2 : CTCTACGCAAATAAACTAGAAAATCTAGAAGAAATGGATAAA : 3280
L1PA3 : CTCTACGCAAATAAACTAGAAAATCTAGAAGAAATGGATAAA : 3410
L1PA4 : CTCTACGCAAATAAACTAGAAAATCTAGAAGAAATGGATAAA : 3407
L1PA5 : CTCTACGCAAATAAACTAGAAAATCTAGAAGAAATGGATAAA : 3403
L1PA6 : CTCTATGCAAATAAACTAGAAAATCTAGAAGAAATGGATAAA : 3394
CTCTAcGCAAATAAACTAGAAAATCTAGAAGAAATGGATAaA

* 3460 * 3480

L1PA1 : TTCCTCGACACATACACTCTCCCAAGACTAAACCAGGAAGAA : 3321
L1PA2 : TTCCTCGACACATACACTCTCCCAAGACTAAACCAGGAAGAA : 3322
L1PA3 : TTCCTCGACACATACACCCTCCCAAGACTAAACCAGGAAGAA : 3452
L1PA4 : TTCCTCGACACATACACCCTCCCAAGACTAAACCAGGAAGAA : 3449
L1PA5 : TTCCTGACACATACACCCTCCCAAGACTAAACCAGGAAGAA : 3445
L1PA6 : TTCCTGACACATACACCCTCCCAAGACTAAACCAGGAAGAA : 3436
TTCCT GACACATACAC CTCCCAAGACTAAACCAGGAAGAA

* 3500 * 3520

L1PA1 : GTTGAATCTCTGAATCGACCAATAACAGGCTCTGAAATTGTG : 3363
L1PA2 : GTTGAATCTCTGAATAGACCAATAACAGGATCTGAAATTGTG : 3364
L1PA3 : GTTGAATCTCTGAATAGACCAATAACAGGCTCTGAAATTGTG : 3494
L1PA4 : GTTGAATCTCTGAATAGACCAATAACAGGCTCTGAAATTGAG : 3491
L1PA5 : GTTGAATCCCTGAATAGACCAATAACAGGCTCTGAAATTGAG : 3487
L1PA6 : GTTGAATCTCTGAATAGACCAATAACAGGCTCTGAAATTGAG : 3478
GTTGAATCtCTGAATaGACCAATAACAGGcTCTGAAATTG G

* 3540 * 3560 *

L1PA1 : GCAATAATCAATAGTTTACCAACCAAAAAAGAGTCCAGGACCA : 3405
L1PA2 : GCAATAATCAATAGCTTACCAACCAAAAAAGAGTCCAGGACCA : 3406
L1PA3 : GCAATAATCAATAGCTTACCAACCAAAAAAGAGTCCAGGACCA : 3536
L1PA4 : GCAATAATTAAATAGCTTACCAACCAAAAAAAGTCCAGGACCA : 3533
L1PA5 : GCAATAATTAAATAGCTTACCAACCAAAAAAAGTCCAGGACCA : 3529
L1PA6 : GCAATAATTAAATAGCCCTACCAACCAAAAAAAGTCCAGGACCA : 3520
GCAATAAT AATAGctTACCAACCAAAAA AGTCCAGGACCA

		3580		*		3600		*	
L1PA1 :	GAT	GGATT	CACAGCCGAATTCTACCAGAGGTACAA	G	GAGGA	A	:	3447	
L1PA2 :	GAT	GGATT	CACAGCCGAATTCTACCAGAGGTACAA	G	GAGGA	A	:	3448	
L1PA3 :	GAT	GGATT	CACAGCCGAATTCTACCAGAGGTACAA	G	GAGGA	A	:	3578	
L1PA4 :	GAT	GGATT	CACAGCCGAATTCTACCAGAGGTACAA	G	GAGGA	G	:	3575	
L1PA5 :	GAT	GGATT	CACAGCCGAATTCTACCAGAGGTACAA	G	GAGGA	G	:	3571	
L1PA6 :	GAC	GGATT	CACAGCCGAATTCTACCAGAGGTACAA	A	GAGGA	G	:	3562	
	GAtGGATTACAGCCGAATTCTACCAGAGGTACAAgGAGGA								

		3620		*		3640		*	
L1PA1 :	CTGGT	ACCATT	CCTTCTGAAACTATTCCAATCAATAGAAAA				:	3489	
L1PA2 :	CTGGT	ACCATT	CCTTCTGAAACTATTCCAATCAATAGAAAA				:	3490	
L1PA3 :	CTGGT	ACCATT	CCTTCTGAAACTATTCCAATCAATAGAAAA				:	3620	
L1PA4 :	CTGGT	ACCATT	CCTTCTGAAACTATTCCAATCAATAGAAAA				:	3617	
L1PA5 :	CTGGT	ACCATT	CCTTCTGAAACTATTCCAATCAATAGAAAA				:	3613	
L1PA6 :	CTGGT	ACCATT	CCTTCTGAAACTATTCCAATCAATAGAAAA				:	3604	
	CTGGTACCATTCTTCTGAAACTATTCCAATCAATAGAAAA								

		3660		*		3680		*	
L1PA1 :	GAGGGAATCCTCCCTAACTCATTTTATGAGGCCAGCATCAT	T	:	3531					
L1PA2 :	GAGGGAATCCTCCCTAACTCATTTTATGAGGCCAGCATCAT	T	:	3532					
L1PA3 :	GAGGGAATCCTCCCTAACTCATTTTATGAGGCCAGCATCAT	C	:	3662					
L1PA4 :	GAGGGAATCCTCCCTAACTCATTTTATGAGGCCAGCATCAT	C	:	3659					
L1PA5 :	GAGGGAATCCTCCCTAACTCATTTTATGAGGCCAGCATCAT	C	:	3655					
L1PA6 :	GAGGGAATCCTCCCTAACTCATTTTATGAGGCCAGCATCAT	C	:	3646					
	GAGGGAATCCTCCCTAACTCATTTTATGAGGCCAGCATCAT								

		3700		*		3720		*		37
L1PA1 :	CTGATACCAAAGCC	G	GGCAGAGACACAAC	C	AAAAAAGAGAAT		:	3573		
L1PA2 :	CTGATACCAAAGCC	G	GGCAGAGACACAAC	C	AAAAAAGAGAAT		:	3574		
L1PA3 :	CTGATACCAAAGCC	G	GGCAGAGACACAAC	C	AAAAAAGAGAAT		:	3704		
L1PA4 :	CTGATACCAAAGCC	G	GGCAGAGACACAAC	A	AAAAAAGAGAAT		:	3701		
L1PA5 :	CTGATACCAAAGCC	G	GGCAGAGACACAAC	A	AAAAAAGAGAAT		:	3697		
L1PA6 :	CTGATACCAAAGCC	T	GGCAGAGACACAAC	A	AAAAAAGAGAAT		:	3688		
	CTGATACCAAAGCCgGGCAGAGACACAAC AAAAAAGAGAAT									

		40		*		3760		*		3780
L1PA1 :	TTTAGACCAATATCC	T	TGATGAACAT	T	GATGC	AAAAATCCTC	:	3615		
L1PA2 :	TTTAGACCAATATCC	T	TGATGAACAT	T	GATGC	AAAAATCCTC	:	3616		
L1PA3 :	TTTAGACCAATATCC	T	TGATGAACAT	T	GATGC	AAAAATCCTC	:	3746		
L1PA4 :	TTTAGACCAATATCC	C	TGATGAACAT	T	GATGC	AAAAATCCTC	:	3743		
L1PA5 :	TTTAGACCAATATCC	C	TGATGAACAT	C	GATGC	AAAAATCCTC	:	3739		
L1PA6 :	TTTAGACCAATATCC	C	TGATGAACAT	C	GATGC	GAAAAATCCTC	:	3730		
	TTTAGACCAATATCC TGATGAACAT GATGCaAAAAATCCTC									

	*	3800	*	3820	
L1PA1 :	AATAAAATACTGGCAAACCGAATCCAGCAGCACATCAAAAAG				: 3657
L1PA2 :	AATAAAATACTGGCAAACCGAATCCAGCAGCACATCAAAAAG				: 3658
L1PA3 :	AATAAAATACTGGCAAACCGAATCCAGCAGCACATCAAAAAG				: 3788
L1PA4 :	AATAAAATACTGGCAAACCGAATCCAGCAGCACATCAAAAAG				: 3785
L1PA5 :	AATAAAATACTGGCAAACCGAATCCAGCAGCACATCAAAAAG				: 3781
L1PA6 :	AATAAAATACTGGCAAACCGAATCCAGCAGCACATCAAAAAG				: 3772

	*	3840	*	3860	
L1PA1 :	CTTATCCACCATGATCAAGTGGGCTTCATCCCTGGGATGCAA				: 3699
L1PA2 :	CTTATCCACCATGATCAAGTGGGCTTCATCCCTGGGATGCAA				: 3700
L1PA3 :	CTTATCCACCATGATCAAGTGGGCTTCATCCCTGGGATGCAA				: 3830
L1PA4 :	CTTATCCACCATGATCAAGTGGGCTTCATCCCTGGGATGCAA				: 3827
L1PA5 :	CTTATCCACCATGATCAAGTGGGCTTCATCCCTGGGATGCAA				: 3823
L1PA6 :	CTTATCCACCATGATCAAGTGGGCTTCATCCCTGGGATGCAA				: 3814

	*	3880	*	3900	
L1PA1 :	GGCTGGTTCAATATACGCAAATCAATAAATGTAATCCAGCAT				: 3741
L1PA2 :	GGCTGGTTCAATATACGCAAATCAATAAATGTAATCCAGCAT				: 3742
L1PA3 :	GGCTGGTTCAATATACGCAAATCAATAAATGTAATCCAGCAT				: 3872
L1PA4 :	GGCTGGTTCAACATACGCAAATCAATAAATGTAATCCAGCAT				: 3869
L1PA5 :	GGCTGGTTCAACATACGCAAATCAATAAATGTAATCCAGCAT				: 3865
L1PA6 :	GGCTGGTTCAACATACGCAAATCAATAAATGTAATCCATCAC				: 3856

	*	3920	*	3940	
L1PA1 :	ATAAACAGAGCCAAAGACAAAAACCACATGATTATCTCAATA				: 3783
L1PA2 :	ATAAACAGAGCCAAAGACAAAAACCACATGATTATCTCAATA				: 3784
L1PA3 :	ATAAACAGAGCCAAAGACAAAAACCACATGATTATCTCAATA				: 3914
L1PA4 :	ATAAACAGAGCCAAAGACAAAAACCACATGATTATCTCAATA				: 3911
L1PA5 :	ATAAACAGAGCCAAAGACAAAAACCACATGATTATCTCAATA				: 3907
L1PA6 :	ATAAACAGAGCCAAAGACAAAAACCACATGATTATCTCAATA				: 3898

	*	3960	*	3980	*	
L1PA1 :	GATGCAGAAAAAGCCTTTGACAAAATTCAACAACCCTTCATG				: 3825	
L1PA2 :	GATGCAGAAAAAGCCTTTGACAAAATTCAACAACCCTTCATG				: 3826	
L1PA3 :	GATGCAGAAAAAGCCTTTGACAAAATTCAACAACCCTTCATG				: 3956	
L1PA4 :	GATGCAGAAAAAGCCTTTGACAAAATTCAACAACCCTTCATG				: 3953	
L1PA5 :	GATGCAGAAAAAGCCTTTGACAAAATTCAACAACCCTTCATG				: 3949	
L1PA6 :	GATGCAGAAAAAGCCTTTGACAAAATTCAACAACCCTTCATG				: 3940	

	4000	*	4020	*	
L1PA1 :	CTAAAACTCTCAATAAA	T	TAGGTATTGATGG	GACGTAT	TC : 3867
L1PA2 :	CTAAAACTCTCAATAAA	T	TAGGTATTGATGG	GACGTAT	TC : 3868
L1PA3 :	CTAAAACTCTCAATAAA	T	TAGGTATTGATGG	GACGTAT	CTC : 3998
L1PA4 :	CTAAAACTCTCAATAAA	T	TAGGTATTGATGG	GACGTAT	CTC : 3995
L1PA5 :	CTAAAACTCTCAATAAA	T	TAGGTATTGATGG	GACGTAT	CTC : 3991
L1PA6 :	CTAAAACTCTCAATAAA	C	TAGGTATTGATGG	AACGTAT	CTC : 3982
	CTAAAACTCTCAATAAAtTAGGTATTGATGGgACGTAT TC				

	4040	*	4060	*	
L1PA1 :	AAAATAATAAGAGCTAT	C	TATGACAAACCCACAGCCAATATC		: 3909
L1PA2 :	AAAATAATAAGAGCTAT	C	TATGACAAACCCACAGCCAATATC		: 3910
L1PA3 :	AAAATAATAAGAGCTAT	C	TATGACAAACCCACAGCCAATATC		: 4040
L1PA4 :	AAAATAATAAGAGCTAT	C	TATGACAAACCCACAGCCAATATC		: 4037
L1PA5 :	AAAATAATAAGAGCTAT	C	TATGACAAACCCACAGCCAATATC		: 4033
L1PA6 :	AAAATAATAAGAGCTAT	T	TATGACAAACCCACAGCCAATATC		: 4024
	AAAATAATAAGAGCTATcTATGACAAACCCACAGCCAATATC				

	4080	*	4100	*	
L1PA1 :	ATACTGAATGGGCAAAA	ACTGGAAGCAT	TCCCTTTGAAAAC	C	: 3951
L1PA2 :	ATACTGAATGGGCAAAA	ACTGGAAGCAT	TCCCTTTGAAAAC	T	: 3952
L1PA3 :	ATACTGAATGGGCAAAA	ACTGGAAGCAT	TCCCTTTGAAAAC	T	: 4082
L1PA4 :	ATACTGAATGGGCAAAA	ACTGGAAGCAT	TCCCTTTGAAAAC	T	: 4079
L1PA5 :	ATACTGAATGGGCAAAA	ACTGGAAGCAT	TCCCTTTGAAAAC	T	: 4075
L1PA6 :	ATACTGAATGGGCAAAA	ACTGGAAGCAT	TCCCTTTGAAAAC	T	: 4066
	ATACTGAATGGGCAAAA				

	4120	*	4140	*	41	
L1PA1 :	GGCACAAGACAG	GGATGCCCTCTCTCACC	G	CTCCTATTCAAC		: 3993
L1PA2 :	GGCACAAGACAG	GGATGCCCTCTCTCACC	A	CTCCTATTCAAC		: 3994
L1PA3 :	GGCACAAGACAG	GGATGCCCTCTCTCACC	A	CTCCTATTCAAC		: 4124
L1PA4 :	GGCACAAGACAG	GGATGCCCTCTCTCACC	A	CTCCTATTCAAC		: 4121
L1PA5 :	GGCACAAGACAG	GGATGCCCTCTCTCACC	A	CTCCTATTCAAC		: 4117
L1PA6 :	GGCACAAGACAG	GGATGCCCTCTCTCACC	A	CTCCTATTCAAC		: 4108
	GGCACAAGACAgGGATGCCCTCTCTCACC					

	60	*	4180	*	4200	
L1PA1 :	ATAGTGTTGGAAGTTCTGGCCAGGGCAAT	CAGGCA	G	GAGAAG	G	: 4035
L1PA2 :	ATAGTGTTGGAAGTTCTGGCCAGGGCAAT	TAGGCA	G	GAGAAG	G	: 4036
L1PA3 :	ATAGTGTTGGAAGTTCTGGCCAGGGCAAT	TAGGCA	G	GAGAAG	G	: 4166
L1PA4 :	ATAGTGTTGGAAGTTCTGGCCAGGGCAAT	TAGGCA	G	GAGAAG	G	: 4163
L1PA5 :	ATAGTGTTGGAAGTTCTGGCCAGGGCAAT	TAGGCA	G	GAGAAA	A	: 4159
L1PA6 :	ATAGTGTTGGAAGTTCTGGCCAGGGCAAT	TAGGCA	A	GAGAAA	A	: 4150
	ATAGTGTTGGAAGTTCTGGCCAGGGCAAT AGGCAgGAGAA					

* 4220 * 4240

L1PA1 : GAAATAAAGGGTATTCAATTAGGAAAAGAGGAAGTCAAATTG : 4077
 L1PA2 : GAAATAAAGGGTATTCAATTAGGAAAAGAGGAAGTCAAATTG : 4078
 L1PA3 : GAAATAAAGGGTATTCAATTAGGAAAAGAGGAAGTCAAATTG : 4208
 L1PA4 : GAAATAAAGGGTATTCAATTAGGAAAAGAGGAAGTCAAATTG : 4205
 L1PA5 : GAAATAAAGGGTATTCAATTAGGAAAAGAGGAAGTCAAATTG : 4201
 L1PA6 : GAAATAAAGGGTATTCAATTAGGAAAAGAGGAAGTCAAATTG : 4192
 GAAATAAAGGGTATTCAATTAGGAAAAGAGGAAGTCAAATTG

* 4260 * 4280

L1PA1 : TCCCTGTTTGCAGACGACATGATTGTATATCTAGAAAACCCC : 4119
 L1PA2 : TCCCTGTTTGCAGACGACATGATTGTATATCTAGAAAACCCC : 4120
 L1PA3 : TCCCTGTTTGCAGACGACATGATTGTATATCTAGAAAACCCC : 4250
 L1PA4 : TCCCTGTTTGCAGACGACATGATTGTATATCTAGAAAACCCC : 4247
 L1PA5 : TCCCTGTTTGCAGACGACATGATTGTATATCTAGAAAACCCC : 4243
 L1PA6 : TCCCTGTTTGCAGATGACATGATTGTATATTAGAAAACCCC : 4234
 TCCCTGTTTGCAGAcGACATGATTGTaTATcTAGAAAACCCC

* 4300 * 4320

L1PA1 : ATCGTCTCAGCCCCAAAATCTCCTTAAGCTGATAAGCAACTTC : 4161
 L1PA2 : ATTGTCTCAGCCCCAAAATCTCCTTAAGCTGATAAGCAACTTC : 4162
 L1PA3 : ATTGTCTCAGCCCCAAAATCTCCTTAAGCTGATAAGCAACTTC : 4292
 L1PA4 : ATTGTCTCAGCCCCAAAATCTCCTTAAGCTGATAAGCAACTTC : 4289
 L1PA5 : ATCGTCTCAGCCCCAAAATCTCCTTAAGCTGATAAGCAACTTC : 4285
 L1PA6 : ATCACTCTCAGCCCCAAAATCTCCTTAAGCTGATAAGCAACTTC : 4276
 AT gTCTCAGCCCCAAAATCTCCTTAAGCTGATAAGCAACTTC

* 4340 * 4360

L1PA1 : AGCAAAGTCTCAGGATACAAAATCAATGTACAAAAATCACAA : 4203
 L1PA2 : AGCAAAGTCTCAGGATACAAAATCAATGTACAAAAATCACAA : 4204
 L1PA3 : AGCAAAGTCTCAGGATACAAAATCAATGTACAAAAATCACAA : 4334
 L1PA4 : AGCAAAGTCTCAGGATACAAAATCAATGTGCAAAAAATCACAA : 4331
 L1PA5 : AGCAAAGTCTCAGGATACAAAATCAATGTGCAAAAAATCACAA : 4327
 L1PA6 : AGCAAAGTCTCAGGATACAAAATCAATGTGCAAAAAATCACAA : 4318
 AGCAAAGTCTCAGGATACAAAATCAATGT CAAAAATCACAA

* 4380 * 4400 *

L1PA1 : GCATTCTTATACACCAACAAACAGACAAACAGAGAGCCAAATC : 4245
 L1PA2 : GCATTCTTATACACCAACAAACAGACAAACAGAGAGCCAAATC : 4246
 L1PA3 : GCATTCTTATACACCAATAACAGACAAACAGAGAGCCAAATC : 4376
 L1PA4 : GCATTCTTATACACCAATAACAGACAAACAGAGAGCCAAATC : 4373
 L1PA5 : GCATTCTTATACACCAATAACAGACAAACAGAGAGCCAAATC : 4369
 L1PA6 : GCATTCTTATACACCAATAACAGACAAACAGAGAGCCAAATC : 4360
 GCATTCTtTATACACCAA AACAGACAAACAGAGAGCCAAATC

4420 * 4440 *

L1PA1 : ATGGGTGAACTCCCATTCAACAATTGCTTCAAAGAGAATAAAA : 4287
 L1PA2 : ATGAGTGAACTCCCATTCAACAATTGCTTCAAAGAGAATAAAA : 4288
 L1PA3 : ATGAGTGAACTCCCATTCAACAATTGCTTCAAAGAGAATAAAA : 4418
 L1PA4 : ATGAGTGAACTCCCATTCAACAATTGCTTCAAAGAGAATAAAA : 4415
 L1PA5 : ATGAGTGAACTCCCATTCAACAATTGCTTCAAAGAGAATAAAA : 4411
 L1PA6 : ATGAGTGAACTCCCATTCAACAATTGCTTCAAAGAGAATAAAA : 4402
 ATGaGTGAACTCCCATTCAACAATTGCTtCAAAGAGAATAAAA

4460 * 4480 *

L1PA1 : TACCTAGGAATCCAACTTACAAGGGATGTGAAGGACCTCTTC : 4329
 L1PA2 : TACCTAGGAATCCAACTTACAAGGGATGTGAAGGACCTCTTC : 4330
 L1PA3 : TACCTAGGAATCCAACTTACAAGGGATGTGAAGGACCTCTTC : 4460
 L1PA4 : TACCTAGGAATCCAACTTACAAGGGATGTGAAGGACCTCTTC : 4457
 L1PA5 : TACCTAGGAATCCAACTTACAAGGGATGTGAAGGACCTCTTC : 4453
 L1PA6 : TACCTAGGAATCCAACTTACAAGGGATGTGAAGGACCTCTTC : 4444
 TACCTAGGAATCCAACTTACAAGGGATGTGAAGGACCTCTTC

4500 * 4520 *

L1PA1 : AAGGAGAACTACAAACCACTGCTCAAGGAAATAAAAGAGGAG : 4371
 L1PA2 : AAGGAGAACTACAAACCACTGCTCAAGGAAATAAAAGAGGAT : 4372
 L1PA3 : AAGGAGAACTACAAACCACTGCTCAATGAAATAAAAGAGGAT : 4502
 L1PA4 : AAGGAGAACTACAAACCACTGCTCAATGAAATAAAAGAGGAT : 4499
 L1PA5 : AAGGAGAACTACAAACCACTGCTCAATGAAATAAAAGAGGAC : 4495
 L1PA6 : AAGGAGAACTACAAACCACTGCTCAATGAAATAAAAGAGGAC : 4486
 AAGGAGAACTACAAACCACTGCTCAA GAAATAAAAGAGGA

4540 * 4560 * 45

L1PA1 : ACAAAACAAATGGAAGAACATTCCATGCTCATGGGTAGGAAGA : 4413
 L1PA2 : ACAAAACAAATGGAAGAACATTCCATGCTCATGGGTAGGAAGA : 4414
 L1PA3 : ACAAAACAAATGGAAGAACATTCCATGCTCATGGGTAGGAAGA : 4544
 L1PA4 : ACAAAACAAATGGAAGAACATTCCATGCTCATGGGTAGGAAGA : 4541
 L1PA5 : ACAAAACAAATGGAAGAACATTCCATGCTCATGGATAGGAAGA : 4537
 L1PA6 : ACAAAACAAATGGAAGAACATTCCATGCTCATGGATAGGAAGA : 4528
 ACAAAACAAATGGAAGAACATTCCATGCTCATGG TAGGAAGA

80 * 4600 * 4620

L1PA1 : ATCAATATCGTGAAAATGGCCATACTGCCCCAAGGTAATTTAC : 4455
 L1PA2 : ATCAATATCGTGAAAATGGCCATACTGCCCCAAGGTAATTTAC : 4456
 L1PA3 : ATCAATATCGTGAAAATGGCCATACTGCCCCAAGGTAATTTAT : 4586
 L1PA4 : ATCAATATCGTGAAAATGGCCATACTGCCCCAAGGTAATTTAT : 4583
 L1PA5 : ATCAATATCGTGAAAATGGCCATACTGCCCCAAGGTAATTTAT : 4579
 L1PA6 : ATCAATATCGTGAAAATGGCCATACTGCCCCAAGGTAATTTAT : 4570
 ATCAATATCGTGAAAATGGCCATACTGCCCCAAGGTAATTTA

* 4640 * 4660

L1PA1 : AGATTCAATGCCATCCCCATCAAGCTACCAATGACTTTCTTC : 4497
 L1PA2 : AGATTCAATGCCATCCCCATCAAGCTACCAATGACTTTCTTC : 4498
 L1PA3 : AGATTCAATGCCATCCCCATCAAGCTACCAATGACTTTCTTC : 4628
 L1PA4 : AGATTCAATGCCATCCCCATCAAGCTACCAATGACTTTCTTC : 4625
 L1PA5 : AGATTCAATGCCATCCCCATCAAGCTACCAATGACTTTCTTC : 4621
 L1PA6 : AGATTCAATGCCATCCCCATCAAGCTACCAATGACTTTCTTC : 4612
 AGATTCAATGCCATCCCCATCAAGCTACCAATGACTTTCTTC

* 4680 * 4700

L1PA1 : ACAGAATTGGAAAAAACTACTTTAAAGTTCATATGGAACCAA : 4539
 L1PA2 : ACAGAATTGGAAAAAACTACTTTAAAGTTCATATGGAACCAA : 4540
 L1PA3 : ACAGAATTGGAAAAAACTACTTTAAAGTTCATATGGAACCAA : 4670
 L1PA4 : ACAGAATTGGAAAAAACTACTTTAAAGTTCATATGGAACCAA : 4667
 L1PA5 : ACAGAATTGGAAAAAACTACTTTAAAGTTCATATGGAACCAA : 4663
 L1PA6 : ACAGAATTGGAAAAAACTACTTTAAAGTTCATATGGAACCAA : 4654
 ACAGAATTGGAAAAAACTACTTTAAAGTTCATATGGAACCAA

* 4720 * 4740

L1PA1 : AAAAGAGCCCGCATTGCCAAGTCAATCCTAAGCCAAAAGAAC : 4581
 L1PA2 : AAAAGAGCCCGCATCGCCAAGTCAATCCTAAGCCAAAAGAAC : 4582
 L1PA3 : AAAAGAGCCCGCATCGCCAAGTCAATCCTAAGCCAAAAGAAC : 4712
 L1PA4 : AAAAGAGCCCGCATCGCCAAGTCAATCCTAAGCCAAAAGAAC : 4709
 L1PA5 : AAAAGAGCCCGCATCGCCAAGTCAATCCTAAGCCAAAAGAAC : 4705
 L1PA6 : AAAAGAGCCCGCATTGCCAAGTCAATCCTAAGCCAAAAGAAC : 4696
 AAAAGAGCCCGCAT GCCAAG CAATCCTAAGCCAAAAGAAC

* 4760 * 4780

L1PA1 : AAAGCTGGAGGCATCACACTACCTGACTTCAAACCTATACTAC : 4623
 L1PA2 : AAAGCTGGAGGCATCACACTACCTGACTTCAAACCTATACTAC : 4624
 L1PA3 : AAAGCTGGAGGCATCACACTACCTGACTTCAAACCTATACTAC : 4754
 L1PA4 : AAAGCTGGAGGCATCACACTACCTGACTTCAAACCTATACTAC : 4751
 L1PA5 : AAAGCTGGAGGCATCACACTACCTGACTTCAAACCTATACTAC : 4747
 L1PA6 : AAAGCTGGAGGCATCACGCTACCTGACTTCAAACCTATACTAC : 4738
 AAAGCTGGAGGCATCACaCTACCTGACTTCAAACCTATACTAC

* 4800 * 4820 *

L1PA1 : AAGGCTACAGTAACCAAAACAGCATGGTACTGGTACCAAAAC : 4665
 L1PA2 : AAGGCTACAGTAACCAAAACAGCATGGTACTGGTACCAAAAC : 4666
 L1PA3 : AAGGCTACAGTAACCAAAACAGCATGGTACTGGTACCAAAAC : 4796
 L1PA4 : AAGGCTACAGTAACCAAAACAGCATGGTACTGGTACCAAAAC : 4793
 L1PA5 : AAGGCTACAGTAACCAAAACAGCATGGTACTGGTACCAAAAC : 4789
 L1PA6 : AAGGCTACAGTAACCAAAACAGCATGGTACTGGTACCAAAAC : 4780
 AAGGCTACAGTAACCAAAACAGCATGGTACTGGTACCAAAAC

	4840	*	4860	*	
L1PA1 :	AGAGATATAGAT	CAATGGAACAGAACAGAG	CCTCAGAAATA	:	4707
L1PA2 :	AGAGATATAGAT	CAATGGAACAGAACAGAG	CCTCAGAAATA	:	4708
L1PA3 :	AGAGATATAGAT	CAATGGAACAGAACAGAG	CCTCAGAAATA	:	4838
L1PA4 :	AGAGATATAGAC	CAATGGAACAGAACAGAG	CCTCAGAAATA	:	4835
L1PA5 :	AGAGATATAGAC	CAATGGAACAGAACAGAG	CCTCAGAAATA	:	4831
L1PA6 :	AGAGATATAGAC	CAATGGAACAGAACAGAG	CCTCAGAAATA	:	4822
	AGAGATATAGA	CAATGGAACAGAACAGAG	cCCTCAGAAATA		

	4880	*	4900	*	
L1PA1 :	ATGCCGCA	TATCTACAAC	TATCTGATCTTTGACAAACCTGA	G	: 4749
L1PA2 :	ACGCCGCA	TATCTACAAC	TATCTGATCTTTGACAAACCTGA	G	: 4750
L1PA3 :	ACGCCGCA	TATCTACAAC	TATCTGATCTTTGACAAACCTGA	G	: 4880
L1PA4 :	ACGCCGCA	TATCTACAAC	TATCTGATCTTTGACAAACCTGA	C	: 4877
L1PA5 :	ACGCCGCA	CATCTACAAC	CATCTGATCTTTGACAAACCTGA	C	: 4873
L1PA6 :	ACGCCA	CATCTACAAC	CATCTGATCTTTGACAAACCTGA	C	: 4864
	AcGCCgCA	ATCTACAAC	ATCTGATCTTTGACAAACCTGA		

	4920	*	4940	*	
L1PA1 :	AAAAACAAG	CAATGGGGAAAGGATTCCCTATTTAATAAATGG	:	4791	
L1PA2 :	AAAAACAAG	CAATGGGGAAAGGATTCCCTATTTAATAAATGG	:	4792	
L1PA3 :	AAAAACAAG	CAATGGGGAAAGGATTCCCTATTTAATAAATGG	:	4922	
L1PA4 :	AAAAACAAG	CAATGGGGAAAGGATTCCCTATTTAATAAATGG	:	4919	
L1PA5 :	AAAAACAAG	AAATGGGGAAAGGATTCCCTATTTAATAAATGG	:	4915	
L1PA6 :	AAAAACAAG	AAATGGGGAAAGGATTCCCTATTTAATAAATGG	:	4906	
	AAAAACAAG	AATGGGGAAAGGATTCCCTATTTAATAAATGG			

	4960	*	4980	*	50	
L1PA1 :	TGCTGGGAAAAC	TGGCTAGCCATATGTAGAAAGCTGAAACTG	:	4833		
L1PA2 :	TGCTGGGAAAAC	TGGCTAGCCATATGTAGAAAGCTGAAACTG	:	4834		
L1PA3 :	TGCTGGGAAAAC	TGGCTAGCCATATGTAGAAAGCTGAAACTG	:	4964		
L1PA4 :	TGCTGGGAAAAC	TGGCTAGCCATATGTAGAAAGCTGAAACTG	:	4961		
L1PA5 :	TGCTGGGAAAAC	TGGCTAGCCATATGTAGAAAGCTGAAACTG	:	4957		
L1PA6 :	TGCTGGGAAAAC	TGGCTAGCCATATGTAGAAAGCTGAAACTG	:	4948		
	TGCTGGGAAAAC	TGGCTAGCCATATGTAGAAAGCTGAAACTG				

	00	*	5020	*	5040	
L1PA1 :	GATCCCTTCCTTACACCTTATACAAAAAT	CAATTCAAGATGG	:	4875		
L1PA2 :	GATCCCTTCCTTACACCTTATACAAAAAT	CAATTCAAGATGG	:	4876		
L1PA3 :	GATCCCTTCCTTACACCTTATACAAAAAT	TAATTCAAGATGG	:	5006		
L1PA4 :	GATCCCTTCCTTACACCTTATACAAAAAT	TAATTCAAGATGG	:	5003		
L1PA5 :	GATCCCTTCCTTACACCTTATACAAAAAT	TAATTCAAGATGG	:	4999		
L1PA6 :	GATCCCTTCCTTACACCTTATACAAAAAT	TAATTCAAGATGG	:	4990		
	GATCCCTTCCTTACACCTTATACAAAAAT	AATTCAAGATGG				

* 5060 * 5080

L1PA1 : ATTAAAGATTTAAACGTTAAACCTAAAACCATAAAAACCCTA : 4917
 L1PA2 : ATTAAAGACTTAAACGTTAGACCTAAAACCATAAAAACCCTA : 4918
 L1PA3 : ATTAAAGACTTAAACGTTAGACCTAAAACCATAAAAACCCTA : 5048
 L1PA4 : ATTAAAGACTTAAACGTTAGACCTAAAACCATAAAAACCCTA : 5045
 L1PA5 : ATTAAAGACTTAAACGTTAGACCTAAAACCATAAAAACCCTA : 5041
 L1PA6 : ATTAAAGACTTAAATGTTAGACCTAAAACCATAAAAACCCTA : 5032
 ATTAAAGAcTTAAAcGTTAgACCTAAAACCATAAAAACCCTA

* 5100 * 5120

L1PA1 : GAAGAAAACCTAGGCATTTACCATTTCAGGACATAGGCATGTTGGGC : 4959
 L1PA2 : GAAGAAAACCTAGGCATTTACCATTTCAGGACATAGGCATGTTGGGC : 4960
 L1PA3 : GAAGAAAACCTAGGCATTTACCATTTCAGGACATAGGCATGTTGGGC : 5090
 L1PA4 : GAAGAAAACCTAGGCATTTACCATTTCAGGACATAGGCATGTTGGGC : 5087
 L1PA5 : GAAGAAAACCTAGGCATTTACCATTTCAGGACATAGGCATGTTGGGC : 5083
 L1PA6 : GAAGAAAACCTAGGCATTTACCATTTCAGGACATAGGCATGTTGGGC : 5074
 GAAGAAAACCTAGGCATTTACCATTTCAGGACATAGGCATGTTGGGC

* 5140 * 5160

L1PA1 : AAGGACTTCATGTTCTAAAACACCAAAGCAATGGCAACAAAA : 5001
 L1PA2 : AAGGACTTCATGTTCTAAAACACCAAAGCAATGGCAACAAAA : 5002
 L1PA3 : AAGGACTTCATGTTCTAAAACACCAAAGCAATGGCAACAAAA : 5132
 L1PA4 : AAGGACTTCATGTTCTAAAACACCAAAGCAATGGCAACAAAA : 5129
 L1PA5 : AAGGACTTCATGTTCTAAAACACCAAAGCAATGGCAACAAAA : 5125
 L1PA6 : AAGGACTTCATGTTCTAAAACACCAAAGCAATGGCAACAAAA : 5116
 AAGGACTTCATGTTCTAAAACACCAAAGCAATGGCAACAAAA

* 5180 * 5200

L1PA1 : GCCAAAATTTGACAAATGGGATCTAATTAAACTAAAGAGCTTC : 5043
 L1PA2 : GCCAAAATTTGACAAATGGGATCTAATTAAACTAAAGAGCTTC : 5044
 L1PA3 : GCCAAAATTTGACAAATGGGATCTAATTAAACTAAAGAGCTTC : 5174
 L1PA4 : GCCAAAATTTGACAAATGGGATCTAATTAAACTAAAGAGCTTC : 5171
 L1PA5 : GCCAAAATTTGACAAATGGGATCTAATTAAACTAAAGAGCTTC : 5167
 L1PA6 : GCCAAAATTTGACAAATGGGATCTAATTAAACTAAAGAGCTTC : 5158
 GCCAAAATTTGACAAATGGGATCTAATTAAACTAAAGAGCTTC

* 5220 * 5240 *

L1PA1 : TGCACAGCAAAAGAAACTACCATCAGAGTGAACAGGCAACCT : 5085
 L1PA2 : TGCACAGCAAAAGAAACTACCATCAGAGTGAACAGGCAACCT : 5086
 L1PA3 : TGCACAGCAAAAGAAACTACCATCAGAGTGAACAGGCAACCT : 5216
 L1PA4 : TGCACAGCAAAAGAAACTACCATCAGAGTGAACAGGCAACCT : 5213
 L1PA5 : TGCACAGCAAAAGAAACTACCATCAGAGTGAACAGGCAACCT : 5209
 L1PA6 : TGCACAGCAAAAGAAACTACCATCAGAGTGAACAGGCAACCT : 5200
 TGCACAGCAAAAGAAACTACCATCAGAGTGAACAGGCAACCT

5260 * 5280 *

L1PA1 : ACAACATGGGAGAAAATTTT T GCAACCTACTCATCTGACAAA : 5127
 L1PA2 : ACAAAATGGGAGAAAATTTT C GCAACCTACTCATCTGACAAA : 5128
 L1PA3 : ACAAAATGGGAGAAAATTTT C GCAACCTACTCATCTGACAAA : 5258
 L1PA4 : ACAAAATGGGAGAAAATTTT C GCAACCTACTCATCTGACAAA : 5255
 L1PA5 : ACAGAATGGGAGAAAATTTT C GCAATCTACTCATCTGACAAA : 5251
 L1PA6 : ACAGAATGGGAGAAAATTTT T GCAATCTACC CATCTGACAAA : 5242
 ACA aATGGGAGAAAATTTT GCAA CTACTtCATCTGACAAA

5300 * 5320 *

L1PA1 : GGGCTAATATCCAGAATCTACAA T GAACTCAAACAAATTTAC : 5169
 L1PA2 : GGGCTAATATCCAGAATCTACAA T GAACTCAAACAAATTTAC : 5170
 L1PA3 : GGGCTAATATCCAGAATCTACAA T GAACTCAAACAAATTTAC : 5300
 L1PA4 : GGGCTAATATCCAGAATCTACAA T GAACTCAAACAAATTTAC : 5297
 L1PA5 : GGGCTAATATCCAGAATCTACAA A GAACTCAAACAAATTTAC : 5293
 L1PA6 : GGGCTAATATCCAGAATCTACAA A GAACTTAAACAAATTTAC : 5284
 GGGCTAATATCCAGAATCTACAA GAACTcAAACAAATTTAC

5340 * 5360 *

L1PA1 : AAGAAAAAACAACAACCCCATCAAAAAGTGGGC GAAGGAC : 5211
 L1PA2 : AAGAAAAAACAACAACCCCATCAAAAAGTGGGC GAAGGAC : 5212
 L1PA3 : AAGAAAAAACAACAACCCCATCAAAAAGTGGGC GAAGGAC : 5342
 L1PA4 : AAGAAAAAACAACAACCCCATCAAAAAGTGGGC GAAGGAT : 5339
 L1PA5 : AAGAAAAAACAACAACCCCATCAAAAAGTGGGC GAAGGAT : 5335
 L1PA6 : AAGAAAAAACAACAACCCCATCAAAAAGTGGGC AAGGAT : 5326
 AAGAAAAAACAACAACCCCATCAAAAAGTGGGCgAAGGA

5380 * 5400 * 54

L1PA1 : ATGAACAGACACTTCTCAAAGAAGACATTTATGCAGCCAA A : 5253
 L1PA2 : ATGAACAGACACTTCTCAAAGAAGACATTTATGCAGCCAA A : 5254
 L1PA3 : ATGAACAGACACTTCTCAAAGAAGACATTTATGCAGCCAA A : 5384
 L1PA4 : ATGAACAGACACTTCTCAAAGAAGACATTTATGCAGCCAA A : 5381
 L1PA5 : ATGAACAGACACTTCTCAAAGAAGACATTTATGCAGCCAA C : 5377
 L1PA6 : ATGAACAGACACTTCTCAAAGAAGACATTTATGCAGCCAA C : 5368
 ATGAACAGACACTTCTCAAAGAAGACATTTATGCAGCCAA

20 * 5440 * 5460

L1PA1 : AAACACATGAAG AAAATGCTCATCATCACTGG CCATCAGAGAA : 5295
 L1PA2 : AAACACATGAAG AAAATGCTCATCATCACTGG CCATCAGAGAA : 5296
 L1PA3 : AAACACATGAAG AAAATGCTCATCATCACTGG CCATCAGAGAA : 5426
 L1PA4 : AAACACATGAAG AAAATGCTCATCATCACTGG CCATCAGAGAA : 5423
 L1PA5 : AGACACATGAAG AAAATGCTCATCATCACTGG CCATCAGAGAA : 5419
 L1PA6 : AGACACATGAAG AAAATGCTCATCATCACTGG T CATCAGAGAA : 5410
 A ACACATGAAGaAAATGCTCATCATCACTGGcCATCAGAGAA

* 5480 * 5500

L1PA1 : ATGCAAATCAAAACCAC**T**ATGAGATA**T**CATCTCACACCAGTT : 5337
 L1PA2 : ATGCAAATCAAAACCACA**A**ATGAGATA**C**CATCTCACACCAGTT : 5338
 L1PA3 : ATGCAAATCAAAACCACA**A**ATGAGATA**C**CATCTCACACCAGTT : 5468
 L1PA4 : ATGCAAATCAAAACCACA**A**ATGAGATA**C**CATCTCACACCAGTT : 5465
 L1PA5 : ATGCAAATCAAAACCACA**A**ATGAGATA**C**CATCTCACACCAGTT : 5461
 L1PA6 : ATGCAAATCAAAACCACA**A**ATGAGATA**C**CATCTCACACCAGTT : 5452
 ATGCAAATCAAAACCACaATGAGATAcCATCTCACACCAGTT

* 5520 * 5540

L1PA1 : AGAATGGCA**A**ATCATTAAAAAGTCAGGAAACAACAG**G**TGCTGG : 5379
 L1PA2 : AGAATGGCA**A**ATCATTAAAAAGTCAGGAAACAACAG**G**TGCTGG : 5380
 L1PA3 : AGAATGGCA**A**ATCATTAAAAAGTCAGGAAACAACAG**G**TGCTGG : 5510
 L1PA4 : AGAATGGC**G**ATCATTAAAAAGTCAGGAAACAACAG**G**TGCTGG : 5507
 L1PA5 : AGAATGGC**G**ATCATTAAAAAGTCAGGAAACAACAG**G**TGCTGG : 5503
 L1PA6 : AGAATGGC**G**ATCATTAAAAAGTCAGGAAACAACAG**A**TGCTGG : 5494
 AGAATGGC ATCATTAAAAAGTCAGGAAACAACAGgTGCTGG

* 5560 * 5580

L1PA1 : AGAGGATG**C**GGAGAAATAGGAAC**G**CTTTTACACTGTTGGTGG : 5421
 L1PA2 : AGAGGATG**T**GGAGAAATAGGAAC**A**CTTTTACACTGTTGGTGG : 5422
 L1PA3 : AGAGGATG**T**GGAGAAATAGGAAC**A**CTTTTACACTGTTGGTGG : 5552
 L1PA4 : AGAGGATG**T**GGAGAAATAGGAAC**A**CTTTTACACTGTTGGTGG : 5549
 L1PA5 : AGAGGATG**T**GGAGAAATAGGAAC**A**CTTTTACACTGTTGGTGG : 5545
 L1PA6 : AGAGGATG**T**GGAGAAATAGGAAC**G**CTTTTACACTGTTGGTGG : 5536
 AGAGGATGtGGAGAAATAGGAACaCTTTTACACTGTTGGTGG

* 5600 * 5620

L1PA1 : G**A**CTGTAAACTAGTTCAACCATTTGTGGAAG**T**CAGTGTGGCGA : 5463
 L1PA2 : G**A**CTGTAAACTAGTTCAACCATTTGTGGAAG**T**CAGTGTGGCGA : 5464
 L1PA3 : G**A**CTGTAAACTAGTTCAACCATTTGTGGAAG**T**CAGTGTGGCGA : 5594
 L1PA4 : G**A**CTGTAAACTAGTTCAACCATTTGTGGAAG**T**CAGTGTGGCGA : 5591
 L1PA5 : G**A**CTGTAAACTAGTTCAACCATTTGTGGAAG**A**CAGTGTGGCGA : 5587
 L1PA6 : G**A**G**T**GTAAACTAGTTCAACCATTTGTGGAAG**A**CAGTGTGGCGA : 5578
 GAcTGTAAGTCTAGTTCAACCATTTGTGGAAG CAGTGTGGCGA

* 5640 * 5660 *

L1PA1 : TTCCTCAG**G**GATCTAGAACTAGAAATACCATTTGACCCAGC**C** : 5505
 L1PA2 : TTCCTCAG**G**GATCTAGAACTAGAAATACCATTTGACCCAGC**C** : 5506
 L1PA3 : TTCCTCAG**G**GATCTAGAACTAGAAATACCATTTGACCCAGC**C** : 5636
 L1PA4 : TTCCTCAG**G**GATCTAGAACTAGAAATACCATTTGACCCAGC**C** : 5633
 L1PA5 : TTCCTCA**A**GGATCTAGAACTAGAAATACCATTTGACCCAGC**C** : 5629
 L1PA6 : TTCCTCA**A**GGATCTAGAACTAGAAATACCATTTGACCCAGC**A** : 5620
 TTCCTCA GGATCTAGAACTAGAAATACCATTTGACCCAGCc

5680 * 5700 *

L1PA1 : ATCCCATTACTGGGTATATACCCAAATGAGTATAAATCATGC : 5547
 L1PA2 : ATCCCATTACTGGGTATATACCCAAATGACTATAAATCATGC : 5548
 L1PA3 : ATCCCATTACTGGGTATATACCCAAAGGACTATAAATCATGC : 5678
 L1PA4 : ATCCCATTACTGGGTATATACCCAAAGGATTATAAATCATGC : 5675
 L1PA5 : ATCCCATTACTGGGTATATACCCAAAGGATTATAAATCATGC : 5671
 L1PA6 : ATCCCATTACTGGGTATATACCCAAAGGATTATAAATCATGC : 5662
 ATCCCATTACTGGGTATATACCCAAA GA TATAAATCATGC

5720 * 5740 *

L1PA1 : TGCTATAAAGACACATGCACACGTATGTTTATTGCGGCACATA : 5589
 L1PA2 : TGCTATAAAGACACATGCACACGTATGTTTATTGCGGCATT : 5590
 L1PA3 : TGCTATAAAGACACATGCACACGTATGTTTATTGCGGCATA : 5720
 L1PA4 : TGCTATAAAGACACATGCACACGTATGTTTATTGCGGCATA : 5717
 L1PA5 : TGCTATAAAGACACATGCACACGTATGTTTATTGCGGCATA : 5713
 L1PA6 : TACTATAAAGACACATGCACACGTATGTTTATTGCGGCATA : 5704
 TgCTATAAAGACACATGCACACGTATGTTTATTGCGGCACATA

5760 * 5780 *

L1PA1 : TTCACAATAGCAAAGACTTGAACCAACCCAAATGTCCAACA : 5631
 L1PA2 : TTCACAATAGCAAAGACTTGAACCAACCCAAATGTCCAACA : 5632
 L1PA3 : TTCACAATAGCAAAGACTTGAACCAACCCAAATGTCCAACA : 5762
 L1PA4 : TTCACAATAGCAAAGACTTGAACCAACCCAAATGTCCAACA : 5759
 L1PA5 : TTCACAATAGCAAAGACTTGAACCAACCCAAATGTCCATCA : 5755
 L1PA6 : TTCACAATAGCAAAGACTTGAACCAACCCAAATGTCCATCA : 5746
 TTCACAATAGCAAAGACTTGAACCAACCCAAATGTCCA CA

5800 * 5820 * 58

L1PA1 : ATGATAGACTGGATTAAGAAAATGTGGCACATATACACCATG : 5673
 L1PA2 : ATGATAGACTGGATTAAGAAAATGTGGCACATATACACCATG : 5674
 L1PA3 : ATGATAGACTGGATTAAGAAAATGTGGCACATATACACCATG : 5804
 L1PA4 : ATGATAGACTGGATTAAGAAAATGTGGCACATATACACCATG : 5801
 L1PA5 : ATGATAGACTGGATTAAGAAAATGTGGCACATATACACCATG : 5797
 L1PA6 : ATGATAGACTGGATTAAGAAAATGTGGCACATATACACCATG : 5788
 ATGATAGACTGGATTAAGAAAATGTGGCACATATACACCATG

40 * 5860 * 5880

L1PA1 : GAATACTATGCAGCCATAAAAAATGATGAGTTCATATCCTTT : 5715
 L1PA2 : GAATACTATGCAGCCATAAAAAATGATGAGTTCATGTCCTTT : 5716
 L1PA3 : GAATACTATGCAGCCATAAAAAATGATGAGTTCATGTCCTTT : 5846
 L1PA4 : GAATACTATGCAGCCATAAAAAATGATGAGTTCATGTCCTTT : 5843
 L1PA5 : GAATACTATGCAGCCATAAAAAATGATGAGTTCATGTCCTTT : 5839
 L1PA6 : GAATACTATGCAGCCATAAAAAAGATGAGTTCATGTCCTTT : 5830
 GAATACTATGCAGCCATAAAAAATGATGAGTTCATgTCCTTT

		*		5900		*		5920		
L1PA1 :	GT	AGGGACATGGATGAA	AT	TGGAAAC	CATCATTCTCAG	TAAA	:	5757		
L1PA2 :	GT	AGGGACATGGATGAA	AT	TGGAAAT	CATCATTCTCAG	TAAA	:	5758		
L1PA3 :	GT	AGGGACATGGATGAA	AT	TGGAAAT	CATCATTCTCAG	TAAA	:	5888		
L1PA4 :	GT	AGGGACATGGATGAA	GCT	TGGAAAC	CATCATTCTCAG	CAA	:	5885		
L1PA5 :	GT	AGGGACATGGATGAA	GCT	TGGAAAC	CATCATTCTCAG	CAA	:	5881		
L1PA6 :	GC	AGGGACATGGATGAA	GCT	TGGAAAC	CATCATTCTCAG	CAA	:	5872		
	Gt	AGGGACATGGATGAA		TGGAAA	CATCATTCTCAG	AAA				

		*		5940		*		5960		
L1PA1 :	CTATCGCAAG	AACA	AAAAACCAAACACCGCAT	ATTCTCACTC	:	5799				
L1PA2 :	CTATCGCAAG	AACA	AAAAACCAAACACCGCAT	ATTCTCACTC	:	5800				
L1PA3 :	CTATCGCAAG	AACA	AAAAACCAAACACCGCAT	ATTCTCACTC	:	5930				
L1PA4 :	CTATCGCAAG	GACA	AAAAACCAAACACCGCAT	GTTCTCACTC	:	5927				
L1PA5 :	CTATCGCAAG	GACA	AAAAACCAAACACCGCAT	GTTCTCACTC	:	5923				
L1PA6 :	CTATCGCAAG	GACA	GAAAACCAAACACCGCAT	GTTCTCACTC	:	5914				
	CTATCGCAAG	ACAa	AAAAACCAAACACCGCAT	TTCTCACTC						

		*		5980		*		6000		
L1PA1 :	ATAGGTGGGAATTGAACAATGAGAT	CAC	ATGGACACAGGAAG	:	5841					
L1PA2 :	ATAGGTGGGAATTGAACAATGAGAT	CAC	ATGGACACAGGAAG	:	5842					
L1PA3 :	ATAGGTGGGAATTGAACAATGAGAA	CAC	ATGGACACAGGAAG	:	5972					
L1PA4 :	ATAGGTGGGAATTGAACAATGAGAA	CAC	ATGGACACAGGAAG	:	5969					
L1PA5 :	ATAGGTGGGAATTGAACAATGAGAA	CAC	TGGACACAGGAAG	:	5965					
L1PA6 :	ATAGGTGGGAATTGAACAATGAGAA	CAC	TGGACACAGG	GCG	:	5956				
	ATAGGTGGGAATTGAACAATGAGA	CAC	TGGACACAGG	aaG						

		*		6020		*		6040		
L1PA1 :	GGGAATATCACACTCT	TGGGGA	CTGTG	GTGGGGT	CGGGGGAGG	:	5883			
L1PA2 :	GGGAATATCACACTCT	TGGGGA	CTGTG	GTGGGGT	GGGGGGAGG	:	5884			
L1PA3 :	GGGAACATCACACTCT	TGGGGA	CTGTT	GTGGGGT	GGGGGGAGG	:	6014			
L1PA4 :	GGGAACATCACACACT	TGGGGA	CTGTT	GTGGGGT	GGGGGGAGG	:	6011			
L1PA5 :	GGGAACATCACACACC	GGGGC	CTGTT	GTGGGGT	GGGGGGAGG	:	6007			
L1PA6 :	GGGAACATCACACACC	GGGGC	CTGT	CAGGGGGT	GGGGGGCTG	:	5998			
	GGGAA	ATCACAC	C	GGGG	CTGT	gtGGGGTgGGGGGagG				

		*		6060		*		6080		*
L1PA1 :	GGGGAGGGATAGCATTG	GGAGAT	TATACCTAATG	CTAG	ATGAC	:	5925			
L1PA2 :	GGGGAGGGATAGCATTG	GGAGAT	TATACCTAATG	CTAG	ATGAC	:	5926			
L1PA3 :	GGGGAGGGATAGCATT	AGGAGAT	TATACCTAATG	CTAA	ATGAC	:	6056			
L1PA4 :	GGGGAGGGATAGCATT	AGGAGAT	TATACCTAATG	CTAA	ATGAC	:	6053			
L1PA5 :	GGGGAGGGATAGCATT	AGGAGAT	TATACCTAATG	TA	ATGAC	:	6048			
L1PA6 :	GGGGAGGGATAGCATT	AGGAGA	AATACCTAATG	TA	ATGAC	:	6039			
	GGGGAGGGATAGCATT	GGAGAt	TATACCTAATG	TA	ATGAC					

6100 * 6120 *
 L1PA1 : ACA~~TTAG~~TGGGTGCAGC~~GC~~ACCA~~G~~CATGGCACATGTATAC~~AT~~ : 5967
 L1PA2 : ~~GAGTTAG~~TGGGTGCAGC~~GC~~ACCA~~G~~CATGGCACATGTATAC~~AT~~ : 5968
 L1PA3 : ~~GAGTTAAT~~TGGGTGCAGC~~AC~~ACCA~~G~~CATGGCACATGTATAC~~AT~~ : 6098
 L1PA4 : ~~GAGTTAAT~~TGGGTGCAGC~~AC~~ACCA~~A~~CATGGCACATGTATAC~~AT~~ : 6095
 L1PA5 : ~~GAGTTAAT~~TGGGTGCAGC~~AC~~ACCA~~A~~CATGGCACATGTATAC~~AT~~ : 6090
 L1PA6 : ~~GAGTT-G~~TGGGTGCAGC~~AA~~ACCA~~A~~CATGGCACATGTATAC~~CT~~ : 6080
 gagTTa TGGGTGCAGC cACCA CATGGCACATGTATACaT

6140 * 6160 *
 L1PA1 : ATGTAAC~~T~~AACCTGCAC~~AA~~TGTGCACATGTACCCTAA~~AA~~ACTT : 6009
 L1PA2 : ATGTAAC~~T~~AACCTGCAC~~AA~~TGTGCACATGTACCCTAA~~AA~~ACTT : 6010
 L1PA3 : ATGTAAC~~T~~AACCTGCAC~~AT~~TGTGCACATGTACCCTAA~~AA~~ACTT : 6140
 L1PA4 : ATGTAAC~~AA~~ACCTGCAC~~GT~~TGTGCACATGTACCCTAA~~AA~~ACTT : 6137
 L1PA5 : ATGTAAC~~AA~~ACCTGCAC~~GT~~TGTGCACATGTACCCTAG~~AA~~ACTT : 6132
 L1PA6 : ATGTAAC~~AA~~ACCTGCAC~~GT~~TGTGCACATGTACCCTAG~~AA~~ACTT : 6122
 ATGTAAC AACCTGCAC TGTGCACATGTACCCTA AACTT

6180 *
 L1PA1 : ~~AG~~AGTATAAT----- : 6019
 L1PA2 : ~~AA~~AGTATAAT----- : 6020
 L1PA3 : ~~AA~~AGTATAAT----- : 6150
 L1PA4 : ~~AA~~AGTATAAT----- : 6147
 L1PA5 : ~~AA~~AGTATAAT----- : 6142
 L1PA6 : ~~AA~~AGTATAATTAAAAAAA : 6140
 AaAGTATAAT