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 NC_010443.5 55992593 56316511 XLOC_000281 NC_010443.5 55982132 56044244
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AKIRIN2 . -				
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REV3L . -				
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	250181827	TMEM245	.	-		
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	260648070	CDK5RAP2	.	-		
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	260756930	MEGF9	.	-		
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			.	-		
NC_010443.5	205698	411261	XLOC_001264	NC_010443.5	379695	386482 LOC110259815
			.	-		
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			-			
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			.	+		
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			+			
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	TAB2	.	-			
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	HIVEP2	.	+			
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	TXLNB	.	+			
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	HECA	.	-			
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	MOXD1	.	+			
NC_010443.5	37852876	38111462	XLOC_001429	NC_010443.5	37912219	37952553
	LOC110256655	.	+			
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	RNF217	.	-			
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UFL1 . +			
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MFSD4B . +			
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SLC16A10 . +			
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REV3L . -			
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 ARHGEF28 . +
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NC_010444.4 143791336 144039949 XLOC_005061 NC_010444.4 143877334
143891280 SPRY4 . -
NC_010444.4 150688031 150890697 XLOC_005094 NC_010444.4 150662470
150751648 ARHGEF37 . +
NC_010444.4 150688031 150890697 XLOC_005094 NC_010444.4 150823338
150924871 PPARGC1B . +
NC_010444.4 1281831 1485457 XLOC_005143 NC_010444.4 1346864 1356539 MRPL23 .
+
NC_010444.4 1281831 1485457 XLOC_005143 NC_010444.4 1361185 1370168 LOC110259183
. -
NC_010444.4 1281831 1485457 XLOC_005143 NC_010444.4 1261957 1295891 LSP1 .
+
NC_010444.4 1281831 1485457 XLOC_005143 NC_010444.4 1291924 1297681 LOC110259216
. -
NC_010444.4 1281831 1485457 XLOC_005143 NC_010444.4 1424131 1427068 LOC110259218
. +
NC_010444.4 1281831 1485457 XLOC_005143 NC_010444.4 1469183 1496417 IGF2 .
-
NC_010444.4 1281831 1485457 XLOC_005143 NC_010444.4 1297826 1316865 TNNT3 .
+
NC_010444.4 1289082 1494238 XLOC_005144 NC_010444.4 1346864 1356539 MRPL23 .

+
 NC_010444.4 1289082 1494238 XLOC_005144 NC_010444.4 1361185 1370168 LOC110259183
 . -
 NC_010444.4 1289082 1494238 XLOC_005144 NC_010444.4 1261957 1295891 LSP1 .
 +
 NC_010444.4 1289082 1494238 XLOC_005144 NC_010444.4 1291924 1297681 LOC110259216
 . -
 NC_010444.4 1289082 1494238 XLOC_005144 NC_010444.4 1424131 1427068 LOC110259218
 . +
 NC_010444.4 1289082 1494238 XLOC_005144 NC_010444.4 1469183 1496417 IGF2 .
 -
 NC_010444.4 1289082 1494238 XLOC_005144 NC_010444.4 1297826 1316865 TNNT3 .
 +
 NC_010444.4 6694255 6903439 XLOC_005236 NC_010444.4 6720047 6733477 SCYL1 .
 -
 NC_010444.4 6694255 6903439 XLOC_005236 NC_010444.4 6851101 6857886 SLC25A45 .
 +
 NC_010444.4 6694255 6903439 XLOC_005236 NC_010444.4 6865008 6867940 TIGD3 .
 -
 NC_010444.4 6694255 6903439 XLOC_005236 NC_010444.4 6701455 6720191 LTBP3 .
 +
 NC_010444.4 6694255 6903439 XLOC_005236 NC_010444.4 6822964 6843941 FRMD8 .
 -
 NC_010444.4 6694255 6903439 XLOC_005236 NC_010444.4 6870331 6886548 DPF2 .
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 NC_010444.4 6694255 6903439 XLOC_005236 NC_010444.4 6897497 6904040 CDC42EP2 .
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 NC_010444.4 9073468 9278334 XLOC_005299 NC_010444.4 9072549 9075595 UBXN1 .
 +
 NC_010444.4 9073468 9278334 XLOC_005299 NC_010444.4 9077055 9078649 LOC100621476
 . -
 NC_010444.4 9073468 9278334 XLOC_005299 NC_010444.4 9082704 9084158 METTL12 .
 -
 NC_010444.4 9073468 9278334 XLOC_005299 NC_010444.4 9084212 9090032 C2H1orf98 .
 +
 NC_010444.4 9073468 9278334 XLOC_005299 NC_010444.4 9095646 9100487 INTS5 .
 +
 NC_010444.4 9073468 9278334 XLOC_005299 NC_010444.4 9119621 9125081 B3GAT3 .
 +
 NC_010444.4 9073468 9278334 XLOC_005299 NC_010444.4 9127680 9137651 EML3 .
 +
 NC_010444.4 9073468 9278334 XLOC_005299 NC_010444.4 9163220 9173400 EEF1G .
 +
 NC_010444.4 9073468 9278334 XLOC_005299 NC_010444.4 9100672 9118396 GANAB .

+					
NC_010444.4	9073468	9278334	XL0C_005299	NC_010444.4	9125377 9127615 ROM1 .
-					
NC_010444.4	9073468	9278334	XL0C_005299	NC_010444.4	9137818 9146966 MTA2 .
+					
NC_010444.4	9073468	9278334	XL0C_005299	NC_010444.4	9148563 9161918 TUT1 .
+					
NC_010444.4	9073468	9278334	XL0C_005299	NC_010444.4	9186984 9216450 AHNAK .
+					
NC_010444.4	16149055	16354287	XL0C_005431	NC_010444.4	16134046 16176043
DGKZ	.	-			
NC_010444.4	16149055	16354287	XL0C_005431	NC_010444.4	16186206 16220948
CREB3L1	.	-			
NC_010444.4	16149055	16354287	XL0C_005431	NC_010444.4	16341964 16544127
PHF21A	.	+			
NC_010444.4	58950855	59152170	XL0C_005672	NC_010444.4	58972918 58976294
GDF1	.	+			
NC_010444.4	58950855	59152170	XL0C_005672	NC_010444.4	58951463 58972692
CERS1	.	+			
NC_010444.4	58950855	59152170	XL0C_005672	NC_010444.4	59061409 59068951
COMP	.	+			
NC_010444.4	58950855	59152170	XL0C_005672	NC_010444.4	58975013 59013546
UPF1	.	-			
NC_010444.4	58950855	59152170	XL0C_005672	NC_010444.4	59069334 59157196
CRTC1	.	-			
NC_010444.4	64960872	65162587	XL0C_005788	NC_010444.4	65063186 65072681
ASF1B	.	+			
NC_010444.4	64960872	65162587	XL0C_005788	NC_010444.4	65096499 65099799
SAMD1	.	+			
NC_010444.4	64960872	65162587	XL0C_005788	NC_010444.4	65100933 65103997
C2H19orf67	.	+			
NC_010444.4	64960872	65162587	XL0C_005788	NC_010444.4	65074876 65095564
PRKACA	.	+			
NC_010444.4	64960872	65162587	XL0C_005788	NC_010444.4	65107742 65110085
MISP3	.	-			
NC_010444.4	64960872	65162587	XL0C_005788	NC_010444.4	65117176 65127136
PALM3	.	+			
NC_010444.4	64960872	65162587	XL0C_005788	NC_010444.4	65149883 65173306
RLN3	.	-			
NC_010444.4	64960872	65162587	XL0C_005788	NC_010444.4	65127278 65149665
IL27RA	.	-			
NC_010444.4	64960872	65162587	XL0C_005788	NC_010444.4	64997159 65046509
ADGRL1	.	+			
NC_010444.4	76938648	77141441	XL0C_006026	NC_010444.4	76998982 77003332

C2H19orf25	.	+			
NC_010444.4	76938648	77141441	XL0C_006026	NC_010444.4	77044749
RPS15	.	-			
NC_010444.4	76938648	77141441	XL0C_006026	NC_010444.4	77079751
GAMT	.	+			
NC_010444.4	76938648	77141441	XL0C_006026	NC_010444.4	76948062
PLK5	.	-			
NC_010444.4	76938648	77141441	XL0C_006026	NC_010444.4	76966155
ADAMTSL5	.	+			
NC_010444.4	76938648	77141441	XL0C_006026	NC_010444.4	76982806
PCSK4	.	+			
NC_010444.4	76938648	77141441	XL0C_006026	NC_010444.4	76983431
REEP6	.	-			
NC_010444.4	76938648	77141441	XL0C_006026	NC_010444.4	77005706
APC2	.	-			
NC_010444.4	76938648	77141441	XL0C_006026	NC_010444.4	77080311
NDUFS7	.	-			
NC_010444.4	76938648	77141441	XL0C_006026	NC_010444.4	77089915
LOC100511862	.	-			
NC_010444.4	76938648	77141441	XL0C_006026	NC_010444.4	77048890
DAZAP1	.	-			
NC_010444.4	86769321	86972590	XL0C_006129	NC_010444.4	86875922
AP3B1	.	-			
NC_010444.4	100193476	100544800	XL0C_006174	NC_010444.4	100447661
100457510	NR2F1	.	+		
NC_010444.4	100193476	100544800	XL0C_006174	NC_010444.4	100477770
100893594	FAM172A	.	-		
NC_010444.4	119800703	120005297	XL0C_006228	NC_010444.4	119948443
119965702	ATG12	.	-		
NC_010444.4	119800703	120005297	XL0C_006228	NC_010444.4	119965539
120039948	AP3S1	.	+		
NC_010444.4	119800703	120005297	XL0C_006228	NC_010444.4	119794608
119804406	TMED7	.	-		
NC_010444.4	119800703	120005297	XL0C_006228	NC_010444.4	119927768
119940690	CD01	.	-		
NC_010444.4	144871818	145171225	XL0C_006362	NC_010444.4	144907485
144911544	LOC110259145	.	+		
NC_010444.4	144871818	145171225	XL0C_006362	NC_010444.4	144822937
144956451	NR3C1	.	-		
NC_010445.4	144749	346390	XL0C_007226	NC_010445.4	206307
				208604	LOC110259820
	.	+			
NC_010445.4	144749	346390	XL0C_007226	NC_010445.4	159107
				200462	FAM20C
	.				
	.				
NC_010445.4	144749	346390	XL0C_007226	NC_010445.4	296399
				322967	PDGFA
	.				

-
 NC_010445.4 144749 346390 XLOC_007226 NC_010445.4 130288 164189 LOC106507337
 . -
 NC_010445.4 144749 346390 XLOC_007226 NC_010445.4 343124 425154 PRKAR1B .
 -
 NC_010445.4 376278 578926 XLOC_007228 NC_010445.4 424514 462297 DNAAF5 .
 +
 NC_010445.4 376278 578926 XLOC_007228 NC_010445.4 533525 547527 GET4 .
 +
 NC_010445.4 376278 578926 XLOC_007228 NC_010445.4 548823 615471 ADAP1 .
 -
 NC_010445.4 376278 578926 XLOC_007228 NC_010445.4 343124 425154 PRKAR1B .
 -
 NC_010445.4 376278 578926 XLOC_007228 NC_010445.4 485980 532974 SUN1 .
 +
 NC_010445.4 4752603 4954460 XLOC_007272 NC_010445.4 4741882 4779210 DAGLB .
 +
 NC_010445.4 4752603 4954460 XLOC_007272 NC_010445.4 4781776 4803510 RAC1 .
 -
 NC_010445.4 4752603 4954460 XLOC_007272 NC_010445.4 4821544 4848691 LOC110260073
 . +
 NC_010445.4 4752603 4954460 XLOC_007272 NC_010445.4 4900575 5002201 CYTH3 .
 +
 NC_010445.4 9117834 9321214 XLOC_007356 NC_010445.4 9187808 9198476 MYL10 .
 -
 NC_010445.4 9117834 9321214 XLOC_007356 NC_010445.4 9003126 9164074 COL26A1 .
 +
 NC_010445.4 9117834 9321214 XLOC_007356 NC_010445.4 9317145 9669999 CUX1 .
 +
 NC_010445.4 32309024 32524738 XLOC_007542 NC_010445.4 32275481 32318598
 TVP23A . +
 NC_010445.4 32309024 32524738 XLOC_007542 NC_010445.4 32311774 32340120
 NUBP1 . -
 NC_010445.4 32309024 32524738 XLOC_007542 NC_010445.4 32449496 32493245
 EMP2 . +
 NC_010445.4 32309024 32524738 XLOC_007542 NC_010445.4 32523462 32598946
 ATF7IP2 . -
 NC_010445.4 32309024 32524738 XLOC_007542 NC_010445.4 32350906 32393123
 TEK5 . +
 NC_010445.4 33555701 33761207 XLOC_007548 NC_010445.4 33626961 33655338
 C3H16orf72 . -
 NC_010445.4 33555701 33761207 XLOC_007548 NC_010445.4 33754357 33810480
 USP7 . +
 NC_010445.4 39728765 39931867 XLOC_007606 NC_010445.4 39750742 39758516

ECI1 . +					
NC_010445.4 39728765	39931867	XL0C_007606	NC_010445.4 39757725	39761497	
DNASE1L2 . -					
NC_010445.4 39728765	39931867	XL0C_007606	NC_010445.4 39776815	39779669	
PGP . +					
NC_010445.4 39728765	39931867	XL0C_007606	NC_010445.4 39780707	39782478	
BRICD5 . +					
NC_010445.4 39728765	39931867	XL0C_007606	NC_010445.4 39831981	39837510	
RAB26 . -					
NC_010445.4 39728765	39931867	XL0C_007606	NC_010445.4 39739058	39749600	
RNPS1 . +					
NC_010445.4 39728765	39931867	XL0C_007606	NC_010445.4 39757679	39773024	
E4F1 . -					
NC_010445.4 39728765	39931867	XL0C_007606	NC_010445.4 39778746	39786206	
MLST8 . -					
NC_010445.4 39728765	39931867	XL0C_007606	NC_010445.4 39794400	39811381	
CASKIN1 . +					
NC_010445.4 39728765	39931867	XL0C_007606	NC_010445.4 39811803	39828450	
TRAF7 . -					
NC_010445.4 39728765	39931867	XL0C_007606	NC_010445.4 39849579	39899455	
PKD1 . +					
NC_010445.4 39728765	39931867	XL0C_007606	NC_010445.4 39898924	39935579	
TSC2 . -					
NC_010445.4 39728765	39931867	XL0C_007606	NC_010445.4 39689133	39732466	
ABCA3 . +					
NC_010445.4 39858240	40061864	XL0C_007610	NC_010445.4 39935619	39941718	
NTHL1 . +					
NC_010445.4 39858240	40061864	XL0C_007610	NC_010445.4 39957042	39957792	
NPW . -					
NC_010445.4 39858240	40061864	XL0C_007610	NC_010445.4 39962896	39972659	
ZNF598 . +					
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GFER . -					
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NOX01 . +					
NC_010445.4 39858240	40061864	XL0C_007610	NC_010445.4 39996179	40003110	
RPS2 . +					
NC_010445.4 39858240	40061864	XL0C_007610	NC_010445.4 39997651	40000782	
RNF151 . -					
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NDUFB10 . -					
NC_010445.4 39858240	40061864	XL0C_007610	NC_010445.4 40017161	40021736	
MSRB1 . +					
NC_010445.4 39858240	40061864	XL0C_007610	NC_010445.4 40029927	40038803	

HS3ST6 . +				
NC_010445.4 39858240	40061864	XL0C_007610 NC_010445.4 39849579	39899455	
PKD1 . +				
NC_010445.4 39858240	40061864	XL0C_007610 NC_010445.4 39898924	39935579	
TSC2 . -				
NC_010445.4 39858240	40061864	XL0C_007610 NC_010445.4 39942366	39952824	
SLC9A3R2 . -				
NC_010445.4 39858240	40061864	XL0C_007610 NC_010445.4 39989739	39996138	
TBL3 . -				
NC_010445.4 39858240	40061864	XL0C_007610 NC_010445.4 40004907	40016702	
RPL3L . +				
NC_010445.4 39858240	40061864	XL0C_007610 NC_010445.4 39975067	39981537	
SYNGR3 . -				
NC_010445.4 40730282	40940015	XL0C_007634 NC_010445.4 40738065	40744248	
LOC110259951 . +				
NC_010445.4 40730282	40940015	XL0C_007634 NC_010445.4 40748457	40749884	
C1QTNF8 . +				
NC_010445.4 40730282	40940015	XL0C_007634 NC_010445.4 40756465	40758111	
SSTR5 . -				
NC_010445.4 40730282	40940015	XL0C_007634 NC_010445.4 40825151	40830085	
SOX8 . -				
NC_010445.4 40730282	40940015	XL0C_007634 NC_010445.4 40841242	40929163	
LMF1 . +				
NC_010445.4 43922804	44124483	XL0C_007674 NC_010445.4 43949032	43974283	
POLR1B . -				
NC_010445.4 43922804	44124483	XL0C_007674 NC_010445.4 43980634	44022611	
TTL . -				
NC_010445.4 43922804	44124483	XL0C_007674 NC_010445.4 44081283	44148913	
ZC3H6 . -				
NC_010445.4 43942765	44145553	XL0C_007675 NC_010445.4 43949032	43974283	
POLR1B . -				
NC_010445.4 43942765	44145553	XL0C_007675 NC_010445.4 43980634	44022611	
TTL . -				
NC_010445.4 43942765	44145553	XL0C_007675 NC_010445.4 44081283	44148913	
ZC3H6 . -				
NC_010445.4 77533148	77748526	XL0C_007847 NC_010445.4 77740460	77796911	
PELI1 . +				
NC_010445.4 77558622	77796737	XL0C_007848 NC_010445.4 77740460	77796911	
PELI1 . +				
NC_010445.4 99702886	99912314	XL0C_007935 NC_010445.4 99823503		
100257306 SLC8A1 . +				
NC_010445.4 117476983	117678783	XL0C_008039 NC_010445.4 117586188		
117592541 GDF7 . -				
NC_010445.4 117476983	117678783	XL0C_008039 NC_010445.4 117608987		

117647361	HS1BP3	.	+				
NC_010445.4	117476983	117678783	XLOC_008039	NC_010445.4	117463795		
117575422	LDAH	.	+				
NC_010445.4	119949265	120162413	XLOC_008053	NC_010445.4	120033980		
120034624	MSGN1	.	-				
NC_010445.4	119949265	120162413	XLOC_008053	NC_010445.4	119951110		
119989541	KCNS3	.	-				
NC_010445.4	119949265	120162413	XLOC_008053	NC_010445.4	120067792		
120097305	GEN1	.	-				
NC_010445.4	119949265	120162413	XLOC_008053	NC_010445.4	120097361		
120170974	SMC6	.	+				
NC_010445.4	129731260	129961825	XLOC_008084	NC_010445.4	129797438		
129800568	SOX11	.	-				
NC_010445.4	131338346	131544802	XLOC_008089	NC_010445.4	131360898		
131435619	EIPR1	.	+				
NC_010445.4	131338346	131544802	XLOC_008089	NC_010445.4	131307185		
131357996	TRAPPC12	.	-				
NC_010445.4	1619013	1820780	XLOC_008124	NC_010445.4	1697830	1703812	LOC110259835
.	+						
NC_010445.4	1619013	1820780	XLOC_008124	NC_010445.4	1776013	1783611	GRIFIN .
-							
NC_010445.4	1619013	1820780	XLOC_008124	NC_010445.4	1819956	1824336	LOC110259834
.	-						
NC_010445.4	1619013	1820780	XLOC_008124	NC_010445.4	1667235	1692308	LOC110259833
.	+						
NC_010445.4	1619013	1820780	XLOC_008124	NC_010445.4	1721044	1819426	LFNG .
+							
NC_010445.4	1619013	1820780	XLOC_008124	NC_010445.4	1721047	1743080	CHST12 .
+							
NC_010445.4	5701260	5904566	XLOC_008162	NC_010445.4	5720686	5732458	NPTX2 .
+							
NC_010445.4	5701260	5904566	XLOC_008162	NC_010445.4	5852159	5854982	LOC110260074
.	+						
NC_010445.4	5701260	5904566	XLOC_008162	NC_010445.4	5887025	5904524	TMEM130 .
-							
NC_010445.4	5701260	5904566	XLOC_008162	NC_010445.4	5903205	6029343	TRRAP .
+							
NC_010445.4	7548536	7754648	XLOC_008187	NC_010445.4	7643567	7647852	LOC106509687
.	-						
NC_010445.4	7548536	7754648	XLOC_008187	NC_010445.4	7678924	7679886	LOC100523238
.	+						
NC_010445.4	7548536	7754648	XLOC_008187	NC_010445.4	7713894	7714856	LOC100524140
.	+						
NC_010445.4	7548536	7754648	XLOC_008187	NC_010445.4	7537131	7571990	RRN3 .

-
 NC_010445.4 7548536 7754648 XLOC_008187 NC_010445.4 7623326 7641061 LOC110259864
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 NC_010445.4 7548536 7754648 XLOC_008187 NC_010445.4 7666792 7673352 LOC102164141
 . +
 NC_010445.4 7548536 7754648 XLOC_008187 NC_010445.4 7683777 7693554 LOC102164353
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 NC_010445.4 7548536 7754648 XLOC_008187 NC_010445.4 7738159 7765821 LOC102164877
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 . +
 NC_010445.4 8322314 8536633 XLOC_008210 NC_010445.4 8356602 8361798 MEPCE .
 +
 NC_010445.4 8322314 8536633 XLOC_008210 NC_010445.4 8405227 8406450 LOC110260075
 . +
 NC_010445.4 8322314 8536633 XLOC_008210 NC_010445.4 8408698 8418499 NYAP1 .
 +
 NC_010445.4 8322314 8536633 XLOC_008210 NC_010445.4 8494536 8497349 LOC100515824
 . +
 NC_010445.4 8322314 8536633 XLOC_008210 NC_010445.4 8497449 8500546 SAP25 .
 -
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 +
 NC_010445.4 8322314 8536633 XLOC_008210 NC_010445.4 8531745 8533828 MOSPD3 .
 +
 NC_010445.4 8322314 8536633 XLOC_008210 NC_010445.4 8305774 8322733 PILRA .
 +
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 . -
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 +
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 -
 NC_010445.4 8322314 8536633 XLOC_008210 NC_010445.4 8511426 8528743 FBX024 .
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 NC_010445.4 8322314 8536633 XLOC_008210 NC_010445.4 8388438 8390868 LOC110259879
 . -
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-
 NC_010445.4 9117561 9323401 XLOC_008232 NC_010445.4 9003126 9164074 COL26A1 .
 +
 NC_010445.4 9117561 9323401 XLOC_008232 NC_010445.4 9317145 9669999 CUX1 .
 +
 NC_010445.4 10635627 10840742 XLOC_008251 NC_010445.4 10753294 10762812
 FZD9 . +
 NC_010445.4 10635627 10840742 XLOC_008251 NC_010445.4 10632670 10642063
 NSUN5 . -
 NC_010445.4 10635627 10840742 XLOC_008251 NC_010445.4 10647690 10655345
 TRIM50 . -
 NC_010445.4 10635627 10840742 XLOC_008251 NC_010445.4 10659456 10716210
 FKBP6 . +
 NC_010445.4 10635627 10840742 XLOC_008251 NC_010445.4 10761461 10843918
 BAZ1B . -
 NC_010445.4 11294801 11499340 XLOC_008263 NC_010445.4 11321486 11348473
 EIF4H . +
 NC_010445.4 11294801 11499340 XLOC_008263 NC_010445.4 11353213 11372100
 LAT2 . +
 NC_010445.4 11294801 11499340 XLOC_008263 NC_010445.4 11373489 11392690
 RFC2 . -
 NC_010445.4 11294801 11499340 XLOC_008263 NC_010445.4 11419446 11505417
 CLIP2 . +
 NC_010445.4 28790699 29006514 XLOC_008399 NC_010445.4 28616808 28802506
 PARN . +
 NC_010445.4 28790699 29006514 XLOC_008399 NC_010445.4 28964758 29240125
 MKL2 . -
 NC_010445.4 31224357 31432393 XLOC_008410 NC_010445.4 31278394 31291205
 RSL1D1 . +
 NC_010445.4 31224357 31432393 XLOC_008410 NC_010445.4 31237155 31273832
 GSPT1 . +
 NC_010445.4 31224357 31432393 XLOC_008410 NC_010445.4 31332486 31372802
 ZC3H7A . +
 NC_010445.4 31224357 31432393 XLOC_008410 NC_010445.4 31376515 31447377
 TXNDC11 . +
 NC_010445.4 39162074 39362747 XLOC_008478 NC_010445.4 39161442 39164631
 THOC6 . -
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 HCFC1R1 . +
 NC_010445.4 39162074 39362747 XLOC_008478 NC_010445.4 39166288 39168294
 TNFRSF12A . -
 NC_010445.4 39162074 39362747 XLOC_008478 NC_010445.4 39168506 39172631
 CLDN6 . +
 NC_010445.4 39162074 39362747 XLOC_008478 NC_010445.4 39200693 39202376

LOC110260113 .	-			
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KREMEN2 .	-			
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ELOB .	-			
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PRSS33 .	-			
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LOC110259940 .	-			
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ZG16B .	+			
NC_010445.4 39162074	39362747	XL0C_008478	NC_010445.4 39344124	39347008
LOC110259943 .	-			
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CLDN9 .	-			
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PKMYT1 .	+			
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PAQR4 .	-			
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FLYWCH1 .	-			
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FLYWCH2 .	-			
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SRRM2 .	+			
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LOC100737121 .	-			
NC_010445.4 39162074	39362747	XL0C_008478	NC_010445.4 39318134	39322775
LOC100737333 .	+			
NC_010445.4 40859040	41089395	XL0C_008528	NC_010445.4 40997556	41000718
GNG13 .	+			
NC_010445.4 40859040	41089395	XL0C_008528	NC_010445.4 41009722	41013013
RPUSD1 .	+			
NC_010445.4 40859040	41089395	XL0C_008528	NC_010445.4 41019799	41021296
LOC110259953 .	+			
NC_010445.4 40859040	41089395	XL0C_008528	NC_010445.4 41025892	41029302
LOC100524016 .	-			
NC_010445.4 40859040	41089395	XL0C_008528	NC_010445.4 41042672	41050013
NARFL .	+			
NC_010445.4 40859040	41089395	XL0C_008528	NC_010445.4 41050047	41053797
HAGHL .	-			
NC_010445.4 40859040	41089395	XL0C_008528	NC_010445.4 41053926	41057735
CCDC78 .	+			
NC_010445.4 40859040	41089395	XL0C_008528	NC_010445.4 41085415	41090628

WDR24 . +				
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CHTF18 . -				
NC_010445.4 40859040	41089395	XL0C_008528 NC_010445.4 41053722	41064315	
METR1 . -				
NC_010445.4 40859040	41089395	XL0C_008528 NC_010445.4 41057727	41059309	
FAM173A . -				
NC_010445.4 40859040	41089395	XL0C_008528 NC_010445.4 41071783	41083653	
FBXL16 . +				
NC_010445.4 40859040	41089395	XL0C_008528 NC_010445.4 41021665	41025766	
LOC100519473 . +				
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LMF1 . +				
NC_010445.4 72451428	72654693	XL0C_008735 NC_010445.4 72517829	72545302	
MXD1 . -				
NC_010445.4 72451428	72654693	XL0C_008735 NC_010445.4 72556127	72566023	
SNRNP27 . -				
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ANXA4 . -				
NC_010445.4 72451428	72654693	XL0C_008735 NC_010445.4 72570426	72619696	
GMCL1 . -				
NC_010445.4 72451428	72654693	XL0C_008735 NC_010445.4 72323958	72536564	
ASPRV1 . +				
NC_010445.4 72921229	73128653	XL0C_008741 NC_010445.4 72963478	72971734	
LOC100512341 . +				
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GFPT1 . +				
NC_010445.4 72921229	73128653	XL0C_008741 NC_010445.4 72793977	72960315	
AAK1 . +				
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NFU1 . +				
NC_010445.4 96749910	96971418	XL0C_008848 NC_010445.4 96797869	96802705	
C1GALT1C1L . +				
NC_010445.4 96749910	96971418	XL0C_008848 NC_010445.4 96707397	96833431	
PLEKHH2 . -				
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THADA . +				
NC_010445.4 114198185	114423881	XL0C_008947 NC_010445.4 114361727		
114366470 LOC106504180 . -				
NC_010445.4 114198185	114423881	XL0C_008947 NC_010445.4 113997214		
114251080 NCOA1 . -				
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114508447 ITSN2 . +				
NC_010445.4 126245905	126448874	XL0C_009003 NC_010445.4 126357198		

126367145	RRM2	.	-		
NC_010445.4	126245905	126448874	XLOC_009003	NC_010445.4	126419011
126429890	KLF11	.	-		
NC_010445.4	126245905	126448874	XLOC_009003	NC_010445.4	126398302
126411951	CYS1	.	+		
NC_010445.4	127121653	127333367	XLOC_009012	NC_010445.4	127243797
127365443	MBOAT2	.	+		
NC_010445.4	129609865	129814768	XLOC_009020	NC_010445.4	129797438
129800568	SOX11	.	-		
NC_010446.5	7615970	7817894	XLOC_009761	NC_010446.5	7814492 7911053 ST3GAL1 .
	+				
NC_010446.5	14198313	14400798	XLOC_009788	NC_010446.5	14289739 14298119
TRIB1	.	-			
NC_010446.5	14198313	14400798	XLOC_009788	NC_010446.5	14359323 14598192
NSMCE2	.	-			
NC_010446.5	36633165	36842058	XLOC_009887	NC_010446.5	36746798 36844662
SPAG1	.	-			
NC_010446.5	36633165	36842058	XLOC_009887	NC_010446.5	36654197 36727514
RNF19A	.	+			
NC_010446.5	67744473	67949490	XLOC_009996	NC_010446.5	67816464 67824470
TCF24	.	+			
NC_010446.5	67744473	67949490	XLOC_009996	NC_010446.5	67740528 67758153
COPS5	.	+			
NC_010446.5	67744473	67949490	XLOC_009996	NC_010446.5	67771755 67816392
PPP1R42	.	+			
NC_010446.5	67744473	67949490	XLOC_009996	NC_010446.5	67850585 67892438
MCMD2	.	-			
NC_010446.5	67744473	67949490	XLOC_009996	NC_010446.5	67614067 67844337
CSPP1	.	-			
NC_010446.5	67744473	67949490	XLOC_009996	NC_010446.5	67899247 68073092
LOC100521447	.	-			
NC_010446.5	70828949	71043846	XLOC_010010	NC_010446.5	70960580 70980883
TTPA	.	+			
NC_010446.5	70828949	71043846	XLOC_010010	NC_010446.5	70996730 71020513
GGH	.	+			
NC_010446.5	70828949	71043846	XLOC_010010	NC_010446.5	70887101 70928839
YTHDF3	.	-			
NC_010446.5	70828949	71043846	XLOC_010010	NC_010446.5	71040646 71608499
NKAIN3	.	-			
NC_010446.5	76760371	76972224	XLOC_010035	NC_010446.5	76854218 76857143
SOX17	.	-			
NC_010446.5	76760371	76972224	XLOC_010035	NC_010446.5	76581881 76854060
LOC100627466	.	-			
NC_010446.5	79171195	79373037	XLOC_010049	NC_010446.5	79264880 79268475

SNAI2 . +				
NC_010446.5 79319510	79532008	XL0C_010052 NC_010446.5 79375487	79387110	
EFCAB1 . +				
NC_010446.5 98467297	98676625	XL0C_010321 NC_010446.5 98447298	98469650	
HORMAD1 . +				
NC_010446.5 98467297	98676625	XL0C_010321 NC_010446.5 98470463	98510635	
GOLPH3L . +				
NC_010446.5 98467297	98676625	XL0C_010321 NC_010446.5 98527902	98535647	
ENSA . +				
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ADAMTSL4 . -				
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ECM1 . -				
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TARS2 . -				
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RPRD2 . -				
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MCL1 . +				
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110962472 C4H1orf194 . +				
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110874712 SARS . -				
NC_010446.5 110872673	111075171	XL0C_010462 NC_010446.5 110965891		
110971509 TMEM167B . -				
NC_010446.5 110872673	111075171	XL0C_010462 NC_010446.5 110980816		
110991941 TAF13 . +				
NC_010446.5 110872673	111075171	XL0C_010462 NC_010446.5 110881770		
110954092 KIAA1324 . -				
NC_010446.5 110872673	111075171	XL0C_010462 NC_010446.5 111006338		
111076924 WDR47 . +				
NC_010446.5 115470089	115679459	XL0C_010477 NC_010446.5 115638381		
115841679 COL11A1 . +				
NC_010446.5 122401008	122604328	XL0C_010498 NC_010446.5 122504450		
122528351 CNN3 . +				
NC_010446.5 122401008	122604328	XL0C_010498 NC_010446.5 122343345		
122464301 ALG14 . +				
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122621647 SLC44A3 . -				
NC_010446.5 122689860	122893086	XL0C_010500 NC_010446.5 122827018		
122837673 F3 . +				
NC_010446.5 122689860	122893086	XL0C_010500 NC_010446.5 122847925		
122929454 ABCD3 . -				
NC_010446.5 122720519	122924601	XL0C_010501 NC_010446.5 122827018		

122837673 F3 . +
 NC_010446.5 122720519 122924601 XLOC_010501 NC_010446.5 122847925
 122929454 ABCD3 . -
 NC_010446.5 127459932 127673517 XLOC_010535 NC_010446.5 127451475
 127507766 KYAT3 . +
 NC_010446.5 127459932 127673517 XLOC_010535 NC_010446.5 127522802
 127559605 GTF2B . +
 NC_010446.5 127459932 127673517 XLOC_010535 NC_010446.5 127579097
 127709982 PKN2 . -
 NC_010446.5 130354747 130568189 XLOC_010549 NC_010446.5 130392404
 130395179 CYR61 . -
 NC_010446.5 130354747 130568189 XLOC_010549 NC_010446.5 130298109
 130409569 ZNHIT6 . +
 NC_010446.5 130354747 130568189 XLOC_010549 NC_010446.5 130485305
 130617534 DDAH1 . +
 NC_010446.5 99780 301228 XLOC_010564 NC_010446.5 136105 138651 RPL8 .
 -
 NC_010446.5 99780 301228 XLOC_010564 NC_010446.5 186689 193100 ZNF251 .
 +
 NC_010446.5 99780 301228 XLOC_010564 NC_010446.5 279756 287085 LRRC14 .
 -
 NC_010446.5 99780 301228 XLOC_010564 NC_010446.5 287206 293629 RECQL4 .
 +
 NC_010446.5 99780 301228 XLOC_010564 NC_010446.5 297747 302498 GPT . -
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 . -
 NC_010446.5 99780 301228 XLOC_010564 NC_010446.5 159217 169571 ZNF7 .
 +
 NC_010446.5 99780 301228 XLOC_010564 NC_010446.5 178527 180842 COMMD5 .
 -
 NC_010446.5 99780 301228 XLOC_010564 NC_010446.5 275644 278548 C4H8orf82 .
 +
 NC_010446.5 99780 301228 XLOC_010564 NC_010446.5 277632 282589 LRRC24 .
 +
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 -
 NC_010446.5 99780 301228 XLOC_010564 NC_010446.5 121980 134925 ZNF34 .
 -
 NC_010446.5 99780 301228 XLOC_010564 NC_010446.5 206135 274998 ARHGAP39 .
 +
 NC_010446.5 312880 520103 XLOC_010570 NC_010446.5 320610 324570 FOXH1 .
 +
 NC_010446.5 312880 520103 XLOC_010570 NC_010446.5 332414 334115 LOC110255327
 . +

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+								
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+								
NC_010446.5	312880	520103	XL0C_010570	NC_010446.5	443100	449113	SCRT1	.
+								
NC_010446.5	312880	520103	XL0C_010570	NC_010446.5	500884	503276	SCX	.
-								
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-								
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-								
NC_010446.5	312880	520103	XL0C_010570	NC_010446.5	335139	348472	LOC100152459	.
+								
NC_010446.5	312880	520103	XL0C_010570	NC_010446.5	349992	361749	TONSL	.
+								
NC_010446.5	312880	520103	XL0C_010570	NC_010446.5	372681	378519	SLC39A4	.
+								
NC_010446.5	312880	520103	XL0C_010570	NC_010446.5	393720	410582	ADCK5	.
-								
NC_010446.5	312880	520103	XL0C_010570	NC_010446.5	421457	429360	SLC52A2	.
-								
NC_010446.5	312880	520103	XL0C_010570	NC_010446.5	424433	427799	FBXL6	.
+								
NC_010446.5	312880	520103	XL0C_010570	NC_010446.5	432846	442506	LOC106507406	.
-								
NC_010446.5	312880	520103	XL0C_010570	NC_010446.5	452890	463665	DGAT1	.
+								
NC_010446.5	312880	520103	XL0C_010570	NC_010446.5	463531	486483	HSF1	.
-								
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+								
NC_010446.5	312880	520103	XL0C_010570	NC_010446.5	382887	393732	CPSF1	.
+								
NC_010446.5	312880	520103	XL0C_010570	NC_010446.5	507223	577859	MROH1	.
-								
NC_010446.5	815665	1019565	XL0C_010585	NC_010446.5	909266	915537	MAPK15	.
-								
NC_010446.5	815665	1019565	XL0C_010585	NC_010446.5	920432	924051	CCDC166	.
+								
NC_010446.5	815665	1019565	XL0C_010585	NC_010446.5	950947	955865	TSTA3	.
+								
NC_010446.5	815665	1019565	XL0C_010585	NC_010446.5	959709	964195	PYCR3	.
+								
NC_010446.5	815665	1019565	XL0C_010585	NC_010446.5	969532	982250	EEF1D	.

+					
NC_010446.5	815665	1019565	XL0C_010585	NC_010446.5	983428 986750 NAPRT .
+					
NC_010446.5	815665	1019565	XL0C_010585	NC_010446.5	988367 994613 MROH6 .
+					
NC_010446.5	815665	1019565	XL0C_010585	NC_010446.5	812137 824321 PUF60 .
+					
NC_010446.5	815665	1019565	XL0C_010585	NC_010446.5	824925 852360 SCRIB .
+					
NC_010446.5	815665	1019565	XL0C_010585	NC_010446.5	852218 896425 IQANK1 .
-					
NC_010446.5	815665	1019565	XL0C_010585	NC_010446.5	887472 907523 FAM83H .
+					
NC_010446.5	815665	1019565	XL0C_010585	NC_010446.5	928786 950917 ZNF623 .
-					
NC_010446.5	815665	1019565	XL0C_010585	NC_010446.5	964727 969391 TIGD5 .
-					
NC_010446.5	815665	1019565	XL0C_010585	NC_010446.5	995753 1001964 GSDMD .
-					
NC_010446.5	815665	1019565	XL0C_010585	NC_010446.5	1009927 1084133 ZC3H3 .
+					
NC_010446.5	14213361	14420788	XL0C_010637	NC_010446.5	14289739 14298119
TRIB1 . -					
NC_010446.5	14213361	14420788	XL0C_010637	NC_010446.5	14359323 14598192
NSMCE2 . -					
NC_010446.5	45819233	46023419	XL0C_010746	NC_010446.5	45923468 45984591
C4H8orf88 . +					
NC_010446.5	45819233	46023419	XL0C_010746	NC_010446.5	45825415 45891192
TMEM55A . +					
NC_010446.5	45819233	46023419	XL0C_010746	NC_010446.5	45981777 46239673
NECAB1 . -					
NC_010446.5	54673945	54901328	XL0C_010768	NC_010446.5	54801363 54837986
SNX16 . +					
NC_010446.5	54673945	54901328	XL0C_010768	NC_010446.5	54860481 54895229
CHMP4C . -					
NC_010446.5	57789845	57991515	XL0C_010779	NC_010446.5	57872114 57879184
PKIA . -					
NC_010446.5	57789845	57991515	XL0C_010779	NC_010446.5	57761249 57819891
ZC2HC1A . -					
NC_010446.5	75535550	75738737	XL0C_010847	NC_010446.5	75581032 75586563
LOC106510084 . +					
NC_010446.5	75535550	75738737	XL0C_010847	NC_010446.5	75553908 75579240
LOC100626876 . +					
NC_010446.5	75535550	75738737	XL0C_010847	NC_010446.5	75586346 75598985

SDR16C5 .	+				
NC_010446.5	75535550	75738737	XL0C_010847	NC_010446.5	75640679 75646218
CHCHD7 .	-				
NC_010446.5	75535550	75738737	XL0C_010847	NC_010446.5	75646585 75696718
PLAG1 .	+				
NC_010446.5	77982020	78185110	XL0C_010861	NC_010446.5	77707143 78002016
ST18 .	+				
NC_010446.5	77982020	78185110	XL0C_010861	NC_010446.5	78099021 78162975
PCMTD1 .	+				
NC_010446.5	79320315	79648508	XL0C_010864	NC_010446.5	79375487 79387110
EFCAB1 .	+				
NC_010446.5	79320315	79648508	XL0C_010864	NC_010446.5	79621343 79652502
UBE2V2 .	-				
NC_010446.5	106395240	106654501	XL0C_011181	NC_010446.5	106566978
106571086	OLFML3 .	-			
NC_010446.5	106395240	106654501	XL0C_011181	NC_010446.5	106646591
106656490	DCLRE1B .	-			
NC_010446.5	106395240	106654501	XL0C_011181	NC_010446.5	106570950
106627114	HIPK1 .	-			
NC_010446.5	106395240	106654501	XL0C_011181	NC_010446.5	106420614
106485468	SYT6 .	+			
NC_010447.5	3360373	3563737	XL0C_012049	NC_010447.5	3441093 3446358 LOC110260612
.	-				
NC_010447.5	3360373	3563737	XL0C_012049	NC_010447.5	3396256 3437923 LOC110260611
.	-				
NC_010447.5	3360373	3563737	XL0C_012049	NC_010447.5	3521412 3572322 WNT7B .
+					
NC_010447.5	4750000	4954179	XL0C_012063	NC_010447.5	4767436 4849333 KIAA1644 .
+					
NC_010447.5	4750000	4954179	XL0C_012063	NC_010447.5	4874343 4899508 PARVG .
-					
NC_010447.5	4750000	4954179	XL0C_012063	NC_010447.5	4906667 5015494 PARVB .
-					
NC_010447.5	12506931	12722022	XL0C_012168	NC_010447.5	12623691 12625193
ASCL4 .	-				
NC_010447.5	12506931	12722022	XL0C_012168	NC_010447.5	12505646 12526206
FBX07 .	-				
NC_010447.5	12506931	12722022	XL0C_012168	NC_010447.5	12526928 12578958
BPIFC .	+				
NC_010447.5	12506931	12722022	XL0C_012168	NC_010447.5	12638335 12668890
PRDM4 .	+				
NC_010447.5	12506931	12722022	XL0C_012168	NC_010447.5	12703067 12730884
PWP1 .	-				
NC_010447.5	12506931	12722022	XL0C_012168	NC_010447.5	12580293 12605722

RTCB . +				
NC_010447.5 17327676	17533212	XL0C_012215 NC_010447.5 17357625	17366033	
GRASP . +				
NC_010447.5 17327676	17533212	XL0C_012215 NC_010447.5 17384732	17388063	
LOC110260567 . -				
NC_010447.5 17327676	17533212	XL0C_012215 NC_010447.5 17418085	17425770	
ATG101 . +				
NC_010447.5 17327676	17533212	XL0C_012215 NC_010447.5 17314322	17350726	
ACVR1B . +				
NC_010447.5 17327676	17533212	XL0C_012215 NC_010447.5 17482454	17506462	
KRT80 . -				
NC_010447.5 47413438	47622140	XL0C_012461 NC_010447.5 47566266	47609330	
SSPN . -				
NC_010447.5 47413438	47622140	XL0C_012461 NC_010447.5 46935923	47465681	
ITPR2 . +				
NC_010447.5 64278902	64506347	XL0C_012588 NC_010447.5 64287529	64312917	
SCNN1A . +				
NC_010447.5 64278902	64506347	XL0C_012588 NC_010447.5 64319349	64331876	
TNFRSF1A . +				
NC_010447.5 64278902	64506347	XL0C_012588 NC_010447.5 64331467	64350680	
PLEKHG6 . -				
NC_010447.5 64278902	64506347	XL0C_012588 NC_010447.5 64420177	64459783	
CD9 . -				
NC_010447.5 65897043	66103126	XL0C_012601 NC_010447.5 66028591	66038078	
FGF23 . +				
NC_010447.5 65897043	66103126	XL0C_012601 NC_010447.5 65872277	65897210	
RAD51AP1 . -				
NC_010447.5 65897043	66103126	XL0C_012601 NC_010447.5 65975807	65990035	
FGF6 . +				
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CCND2 . -				
NC_010447.5 65897043	66103126	XL0C_012601 NC_010447.5 65896750	65944183	
C5H12orf4 . +				
NC_010447.5 65897043	66103126	XL0C_012601 NC_010447.5 66044679	66067571	
TIGAR . -				
NC_010447.5 79379160	79586518	XL0C_012694 NC_010447.5 79356046	79412235	
APPL2 . +				
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ALDH1L2 . +				
NC_010447.5 79379160	79586518	XL0C_012694 NC_010447.5 79417119	79474655	
WASHC4 . -				
NC_010447.5 79379160	79586518	XL0C_012694 NC_010447.5 79551740	79575998	
C5H12orf45 . -				
NC_010447.5 99003758	99206224	XL0C_012784 NC_010447.5 98695404	99085243	

TMT2C . -
 NC_010447.5 3354100 3563717 XLOC_012827 NC_010447.5 3441093 3446358 LOC110260612
 . -
 NC_010447.5 3354100 3563717 XLOC_012827 NC_010447.5 3396256 3437923 LOC110260611
 . -
 NC_010447.5 3354100 3563717 XLOC_012827 NC_010447.5 3521412 3572322 WNT7B .
 +
 NC_010447.5 4638342 4841452 XLOC_012837 NC_010447.5 4649137 4654898 RTL6 .
 +
 NC_010447.5 4638342 4841452 XLOC_012837 NC_010447.5 4767436 4849333 KIAA1644 .
 +
 NC_010447.5 6071784 6274383 XLOC_012848 NC_010447.5 6083793 6105921 A4GALT .
 +
 NC_010447.5 6071784 6274383 XLOC_012848 NC_010447.5 6174442 6201941 POLDIP3 .
 +
 NC_010447.5 6071784 6274383 XLOC_012848 NC_010447.5 6208495 6217381 RRP7A .
 +
 NC_010447.5 6071784 6274383 XLOC_012848 NC_010447.5 6216323 6239811 SERHL2 .
 -
 NC_010447.5 6071784 6274383 XLOC_012848 NC_010447.5 6146230 6170209 LOC100524254
 . +
 NC_010447.5 82444449 82645427 XLOC_013396 NC_010447.5 82492744 82501068
 SYCP3 . +
 NC_010447.5 82444449 82645427 XLOC_013396 NC_010447.5 82500925 82544390
 CHPT1 . -
 NC_010447.5 82444449 82645427 XLOC_013396 NC_010447.5 82264640 82460819
 GNPTAB . +
 NC_010447.5 82444449 82645427 XLOC_013396 NC_010447.5 82557975 82651237
 MYBPC1 . -
 NC_010447.5 82581323 82813805 XLOC_013399 NC_010447.5 82724322 82793527
 SPIC . -
 NC_010447.5 82581323 82813805 XLOC_013399 NC_010447.5 82795741 82812153
 ARL1 . +
 NC_010447.5 82581323 82813805 XLOC_013399 NC_010447.5 82557975 82651237
 MYBPC1 . -
 NC_010447.5 82581323 82813805 XLOC_013399 NC_010447.5 82810700 82913176
 UTP20 . -
 NC_010448.4 1157854 1361916 XLOC_014203 NC_010448.4 1245157 1256037 LOC110260888
 . +
 NC_010448.4 1157854 1361916 XLOC_014203 NC_010448.4 1161514 1208406 ZNF469 .
 -
 NC_010448.4 1282131 1487598 XLOC_014204 NC_010448.4 1421460 1495484 BANP .
 -
 NC_010448.4 10625691 10827936 XLOC_014257 NC_010448.4 10760556 10762615

LOC110261265	.	-		
NC_010448.4	10625691	10827936	XL0C_014257 NC_010448.4	10700594 10716772
SYCE1L	.	-		
NC_010448.4	10625691	10827936	XL0C_014257 NC_010448.4	10713721 10725474
MON1B	.	-		
NC_010448.4	10625691	10827936	XL0C_014257 NC_010448.4	10488504 10652508
ADAMTS18	.	+		
NC_010448.4	10692923	10899951	XL0C_014258 NC_010448.4	10760556 10762615
LOC110261265	.	-		
NC_010448.4	10692923	10899951	XL0C_014258 NC_010448.4	10700594 10716772
SYCE1L	.	-		
NC_010448.4	10692923	10899951	XL0C_014258 NC_010448.4	10713721 10725474
MON1B	.	-		
NC_010448.4	12670211	12871507	XL0C_014272 NC_010448.4	12855330 12910821
FA2H	.	+		
NC_010448.4	12670211	12871507	XL0C_014272 NC_010448.4	12682166 12769339
WDR59	.	+		
NC_010448.4	15851979	16062538	XL0C_014307 NC_010448.4	15693987 15941301
ZFHX3	.	-		
NC_010448.4	18814468	19017481	XL0C_014329 NC_010448.4	18901171 18913427
HERPUD1	.	+		
NC_010448.4	18814468	19017481	XL0C_014329 NC_010448.4	18711869 18827705
NUP93	.	+		
NC_010448.4	18814468	19017481	XL0C_014329 NC_010448.4	18933179 19036288
NLRC5	.	+		
NC_010448.4	18814468	19017481	XL0C_014329 NC_010448.4	18844752 18885497
SLC12A3	.	+		
NC_010448.4	36080448	36284064	XL0C_014435 NC_010448.4	36122189 36177965
N4BP1	.	+		
NC_010448.4	45514660	45729018	XL0C_014520 NC_010448.4	45519225 45520721
COX7A1	.	-		
NC_010448.4	45514660	45729018	XL0C_014520 NC_010448.4	45511410 45518610
CAPNS1	.	+		
NC_010448.4	45514660	45729018	XL0C_014520 NC_010448.4	45520885 45603213
ZNF146	.	+		
NC_010448.4	45514660	45729018	XL0C_014520 NC_010448.4	45543071 45576966
ZNF565	.	-		
NC_010448.4	45514660	45729018	XL0C_014520 NC_010448.4	45709663 45738030
ZNF567	.	-		
NC_010448.4	51731174	51933905	XL0C_014649 NC_010448.4	51727891 51735753
KLC3	.	+		
NC_010448.4	51731174	51933905	XL0C_014649 NC_010448.4	51780709 51783696
CD3EAP	.	+		
NC_010448.4	51731174	51933905	XL0C_014649 NC_010448.4	51855844 51864753

RTN2	.	-			
NC_010448.4	51731174	51933905	XL0C_014649 NC_010448.4	51865061	51871146
PPM1N	.	+			
NC_010448.4	51731174	51933905	XL0C_014649 NC_010448.4	51872810	51886729
VASP	.	+			
NC_010448.4	51731174	51933905	XL0C_014649 NC_010448.4	51734318	51757508
ERCC2	.	-			
NC_010448.4	51731174	51933905	XL0C_014649 NC_010448.4	51783537	51808898
ERCC1	.	-			
NC_010448.4	51731174	51933905	XL0C_014649 NC_010448.4	51836780	51844531
FOSB	.	+			
NC_010448.4	51731174	51933905	XL0C_014649 NC_010448.4	51917956	51967624
OPA3	.	-			
NC_010448.4	51731174	51933905	XL0C_014649 NC_010448.4	51763214	51779902
PPP1R13L	.	-			
NC_010448.4	52396735	52598734	XL0C_014664 NC_010448.4	52429219	52433664
PNMA8A	.	+			
NC_010448.4	52396735	52598734	XL0C_014664 NC_010448.4	52534952	52541115
GNG8	.	-			
NC_010448.4	52396735	52598734	XL0C_014664 NC_010448.4	52543737	52554258
DACT3	.	-			
NC_010448.4	52396735	52598734	XL0C_014664 NC_010448.4	52373266	52402048
LOC100513542	.	+			
NC_010448.4	52396735	52598734	XL0C_014664 NC_010448.4	52474508	52478257
CCDC8	.	+			
NC_010448.4	52396735	52598734	XL0C_014664 NC_010448.4	52481545	52494700
PNMA8B	.	-			
NC_010448.4	52396735	52598734	XL0C_014664 NC_010448.4	52506979	52516704
CALM3	.	+			
NC_010448.4	52396735	52598734	XL0C_014664 NC_010448.4	52522639	52527338
PTGIR	.	-			
NC_010448.4	52396735	52598734	XL0C_014664 NC_010448.4	52559066	52599174
PRKD2	.	-			
NC_010448.4	55223961	55431190	XL0C_014742 NC_010448.4	55238536	55245457
NR1H2	.	+			
NC_010448.4	55223961	55431190	XL0C_014742 NC_010448.4	55316384	55322251
EMC10	.	+			
NC_010448.4	55223961	55431190	XL0C_014742 NC_010448.4	55335466	55341019
JOSD2	.	-			
NC_010448.4	55223961	55431190	XL0C_014742 NC_010448.4	55341343	55343537
ASPDH	.	-			
NC_010448.4	55223961	55431190	XL0C_014742 NC_010448.4	55221203	55230609
NAPSA	.	-			
NC_010448.4	55223961	55431190	XL0C_014742 NC_010448.4	55247799	55272087

POLD1 . +				
NC_010448.4 55223961	55431190	XL0C_014742 NC_010448.4 55272847	55280881	
SPIB . +				
NC_010448.4 55223961	55431190	XL0C_014742 NC_010448.4 55281991	55310184	
MYBPC2 . +				
NC_010448.4 55223961	55431190	XL0C_014742 NC_010448.4 55346787	55409876	
LRRC4B . -				
NC_010448.4 55223961	55431190	XL0C_014742 NC_010448.4 55310616	55316269	
FAM71E1 . -				
NC_010448.4 55223961	55431190	XL0C_014742 NC_010448.4 55417949	55449322	
SYT3 . -				
NC_010448.4 55246089	55446784	XL0C_014743 NC_010448.4 55316384	55322251	
EMC10 . +				
NC_010448.4 55246089	55446784	XL0C_014743 NC_010448.4 55335466	55341019	
JOSD2 . -				
NC_010448.4 55246089	55446784	XL0C_014743 NC_010448.4 55341343	55343537	
ASPDH . -				
NC_010448.4 55246089	55446784	XL0C_014743 NC_010448.4 55446083	55449581	
C6H19orf81 . +				
NC_010448.4 55246089	55446784	XL0C_014743 NC_010448.4 55247799	55272087	
POLD1 . +				
NC_010448.4 55246089	55446784	XL0C_014743 NC_010448.4 55272847	55280881	
SPIB . +				
NC_010448.4 55246089	55446784	XL0C_014743 NC_010448.4 55281991	55310184	
MYBPC2 . +				
NC_010448.4 55246089	55446784	XL0C_014743 NC_010448.4 55346787	55409876	
LRRC4B . -				
NC_010448.4 55246089	55446784	XL0C_014743 NC_010448.4 55310616	55316269	
FAM71E1 . -				
NC_010448.4 55246089	55446784	XL0C_014743 NC_010448.4 55417949	55449322	
SYT3 . -				
NC_010448.4 56772921	56974200	XL0C_014773 NC_010448.4 56898269	56899268	
LOC110261363 . +				
NC_010448.4 56772921	56974200	XL0C_014773 NC_010448.4 56959549	56960718	
LOC110261366 . +				
NC_010448.4 56772921	56974200	XL0C_014773 NC_010448.4 56774611	56788040	
LOC110261286 . -				
NC_010448.4 56772921	56974200	XL0C_014773 NC_010448.4 56855948	56872870	
LOC100624495 . -				
NC_010448.4 56772921	56974200	XL0C_014773 NC_010448.4 56915988	56923111	
LOC110261364 . +				
NC_010448.4 58235428	58440325	XL0C_014797 NC_010448.4 58281233	58283116	
LOC100624035 . +				
NC_010448.4 58235428	58440325	XL0C_014797 NC_010448.4 58395696	58407295	

LOC100514465 .	+			
NC_010448.4 58235428	58440325	XL0C_014797 NC_010448.4 58428217	58438578	
LOC100515383 .	+			
NC_010448.4 58235428	58440325	XL0C_014797 NC_010448.4 58242424	58254088	
ZNF577 .	+			
NC_010448.4 58235428	58440325	XL0C_014797 NC_010448.4 58247779	58273000	
LOC100625598 .	-			
NC_010448.4 58235428	58440325	XL0C_014797 NC_010448.4 58273003	58283823	
LOC110255260 .	+			
NC_010448.4 58235428	58440325	XL0C_014797 NC_010448.4 58303274	58313486	
HAS1 .	+			
NC_010448.4 58235428	58440325	XL0C_014797 NC_010448.4 58355192	58360247	
SIGLEC14 .	+			
NC_010448.4 58235428	58440325	XL0C_014797 NC_010448.4 58365066	58387138	
SIGLEC5 .	+			
NC_010448.4 58235428	58440325	XL0C_014797 NC_010448.4 58388646	58396509	
LOC100516084 .	-			
NC_010448.4 58235428	58440325	XL0C_014797 NC_010448.4 58407424	58419481	
ZNF175 .	-			
NC_010448.4 72904692	73109145	XL0C_015011 NC_010448.4 72930084	72965438	
LRRC38 .	-			
NC_010448.4 72904692	73109145	XL0C_015011 NC_010448.4 73019063	73050000	
PDPN .	+			
NC_010448.4 85933468	86142175	XL0C_015141 NC_010448.4 86027778	86033355	
TMEM200B .	-			
NC_010448.4 85933468	86142175	XL0C_015141 NC_010448.4 86064776	86092769	
SRSF4 .	-			
NC_010448.4 85933468	86142175	XL0C_015141 NC_010448.4 86137743	86228148	
PTPRU .	+			
NC_010448.4 85933468	86142175	XL0C_015141 NC_010448.4 86094383	86131691	
MECR .	-			
NC_010448.4 85933468	86142175	XL0C_015141 NC_010448.4 85842538	86029522	
EPB41 .	+			
NC_010448.4 92236327	92443323	XL0C_015191 NC_010448.4 92233479	92238125	
TEKT2 .	+			
NC_010448.4 92236327	92443323	XL0C_015191 NC_010448.4 92430468	92432164	
EVA1B .	-			
NC_010448.4 92236327	92443323	XL0C_015191 NC_010448.4 92238467	92244515	
ADPRHL2 .	+			
NC_010448.4 92236327	92443323	XL0C_015191 NC_010448.4 92246047	92272046	
COL8A2 .	-			
NC_010448.4 92236327	92443323	XL0C_015191 NC_010448.4 92283146	92293712	
TRAPPC3 .	-			
NC_010448.4 92236327	92443323	XL0C_015191 NC_010448.4 92297992	92322694	

MAP7D1 . +				
NC_010448.4 92236327	92443323	XL0C_015191 NC_010448.4 92413271	92429698	
SH3D21 . +				
NC_010448.4 92236327	92443323	XL0C_015191 NC_010448.4 92441231	92484363	
STK40 . -				
NC_010448.4 92236327	92443323	XL0C_015191 NC_010448.4 92350021	92412335	
THRAP3 . +				
NC_010448.4 100385130	100587054	XL0C_015243 NC_010448.4 100332843		
100468457 LAMA1 . +				
NC_010448.4 100385130	100587054	XL0C_015243 NC_010448.4 100494385		
100681008 ARHGAP28 . -				
NC_010448.4 144084391	144294727	XL0C_015384 NC_010448.4 144206078		
144229471 RPE65 . +				
NC_010448.4 144084391	144294727	XL0C_015384 NC_010448.4 144157569		
144183977 DEPDC1 . +				
NC_010448.4 144084391	144294727	XL0C_015384 NC_010448.4 144242639		
144529659 WLS . +				
NC_010448.4 146042001	146257404	XL0C_015398 NC_010448.4 145815658		
146051621 SGIP1 . -				
NC_010448.4 146042001	146257404	XL0C_015398 NC_010448.4 146167262		
146720105 PDE4B . -				
NC_010448.4 149886334	150089487	XL0C_015407 NC_010448.4 149971471		
149985946 USP1 . -				
NC_010448.4 149886334	150089487	XL0C_015407 NC_010448.4 149745375		
149971853 DOCK7 . +				
NC_010448.4 166453457	166654236	XL0C_015527 NC_010448.4 166520266		
166526725 BTBD19 . -				
NC_010448.4 166453457	166654236	XL0C_015527 NC_010448.4 166527350		
166528855 TCTEX1D4 . +				
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166533734 PLK3 . -				
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166553289 RPS8 . -				
NC_010448.4 166453457	166654236	XL0C_015527 NC_010448.4 166491649		
166513137 PTCH2 . +				
NC_010448.4 166453457	166654236	XL0C_015527 NC_010448.4 166540767		
166547149 BEST4 . +				
NC_010448.4 166453457	166654236	XL0C_015527 NC_010448.4 166556765		
166577904 KIF2C . -				
NC_010448.4 166453457	166654236	XL0C_015527 NC_010448.4 166645103		
166664382 TMEM53 . +				
NC_010448.4 166453457	166654236	XL0C_015527 NC_010448.4 166353918		
166487581 EIF2B3 . +				
NC_010448.4 166453457	166654236	XL0C_015527 NC_010448.4 166572968		

166645129 C6H1orf228 . -
 NC_010448.4 3768048 3970345 XLOC_015625 NC_010448.4 3724784 3786285 KIAA0513 .
 -
 NC_010448.4 3768048 3970345 XLOC_015625 NC_010448.4 3786330 3817960 ZDHHC7 .
 +
 NC_010448.4 3768048 3970345 XLOC_015625 NC_010448.4 3881715 3944592 CRISPLD2 .
 -
 NC_010448.4 7223301 7425688 XLOC_015652 NC_010448.4 7227981 7254927 CENPN .
 -
 NC_010448.4 7223301 7425688 XLOC_015652 NC_010448.4 7254937 7278714 CMC2 .
 +
 NC_010448.4 7223301 7425688 XLOC_015652 NC_010448.4 7420477 7707446 CDYL2 .
 +
 NC_010448.4 19788903 19990676 XLOC_015728 NC_010448.4 19832473 19838181
 TEPP . +
 NC_010448.4 19788903 19990676 XLOC_015728 NC_010448.4 19845190 19865842
 ZNF319 . -
 NC_010448.4 19788903 19990676 XLOC_015728 NC_010448.4 19852020 19874016
 USB1 . +
 NC_010448.4 19788903 19990676 XLOC_015728 NC_010448.4 19890867 19912941
 MMP15 . +
 NC_010448.4 19788903 19990676 XLOC_015728 NC_010448.4 19954698 19969383
 CFAP20 . -
 NC_010448.4 19788903 19990676 XLOC_015728 NC_010448.4 19975030 20016768
 CSNK2A2 . -
 NC_010448.4 19788903 19990676 XLOC_015728 NC_010448.4 19752734 19865830
 CNGB1 . -
 NC_010448.4 34248153 34482955 XLOC_015810 NC_010448.4 34223888 34319584
 NKD1 . -
 NC_010448.4 34248153 34482955 XLOC_015810 NC_010448.4 34478008 34519622
 BRD7 . +
 NC_010448.4 42378933 42583593 XLOC_015835 NC_010448.4 42560059 42563179
 RGS9BP . +
 NC_010448.4 42378933 42583593 XLOC_015835 NC_010448.4 42483653 42491589
 PDCD5 . +
 NC_010448.4 42378933 42583593 XLOC_015835 NC_010448.4 42501167 42559926
 ANKRD27 . -
 NC_010448.4 42378933 42583593 XLOC_015835 NC_010448.4 42574064 42583473
 NUDT19 . +
 NC_010448.4 42378933 42583593 XLOC_015835 NC_010448.4 42335462 42414834
 DPY19L3 . +
 NC_010448.4 45873563 46077710 XLOC_015878 NC_010448.4 45893983 45927775
 ZNF566 . +
 NC_010448.4 45873563 46077710 XLOC_015878 NC_010448.4 45894270 45969804

LOC110255280 .	+			
NC_010448.4 45873563	46077710	XL0C_015878 NC_010448.4	46046097	46079342
LOC102159768 .	-			
NC_010448.4 45873563	46077710	XL0C_015878 NC_010448.4	45858074	45882107
ZNF260 .	+			
NC_010448.4 45873563	46077710	XL0C_015878 NC_010448.4	45987660	46015668
ZFP14 .	+			
NC_010448.4 48173706	48405240	XL0C_015920 NC_010448.4	48182580	48185328
LOC100520248 .	-			
NC_010448.4 48173706	48405240	XL0C_015920 NC_010448.4	48205158	48209859
LGALS13 .	-			
NC_010448.4 48173706	48405240	XL0C_015920 NC_010448.4	48240324	48248568
LEUTX .	+			
NC_010448.4 48173706	48405240	XL0C_015920 NC_010448.4	48305837	48314523
DYRK1B .	-			
NC_010448.4 48173706	48405240	XL0C_015920 NC_010448.4	48314782	48326433
FBL .	-			
NC_010448.4 48173706	48405240	XL0C_015920 NC_010448.4	48331753	48375099
FCGBP .	-			
NC_010448.4 61917005	62119286	XL0C_016231 NC_010448.4	61916788	61926532
LOC110261324 .	-			
NC_010448.4 61917005	62119286	XL0C_016231 NC_010448.4	61952667	61963921
LOC110261326 .	-			
NC_010448.4 61917005	62119286	XL0C_016231 NC_010448.4	61980992	61996220
LOC110261325 .	-			
NC_010448.4 61917005	62119286	XL0C_016231 NC_010448.4	62025040	62029560
LOC110261383 .	+			
NC_010448.4 61917005	62119286	XL0C_016231 NC_010448.4	62039477	62043177
ZNF416 .	-			
NC_010448.4 61917005	62119286	XL0C_016231 NC_010448.4	61929542	61941954
LOC110261322 .	+			
NC_010448.4 61917005	62119286	XL0C_016231 NC_010448.4	62003273	62013900
LOC110261320 .	+			
NC_010448.4 61917005	62119286	XL0C_016231 NC_010448.4	62042557	62049573
LOC110261323 .	-			
NC_010448.4 61917005	62119286	XL0C_016231 NC_010448.4	62082810	62121795
ZNF134 .	+			
NC_010448.4 78797840	79012075	XL0C_016393 NC_010448.4	78954509	78967425
SH2D5 .	-			
NC_010448.4 78797840	79012075	XL0C_016393 NC_010448.4	78824248	78849154
CDA .	+			
NC_010448.4 78797840	79012075	XL0C_016393 NC_010448.4	78863195	78884663
PINK1 .	+			
NC_010448.4 78797840	79012075	XL0C_016393 NC_010448.4	78885268	78895720

DDOST . -				
NC_010448.4 78797840	79012075	XL0C_016393 NC_010448.4 78975551	79007921	
HP1BP3 . -				
NC_010448.4 81073388	81288232	XL0C_016409 NC_010448.4 81250203	81262346	
ZNF436 . -				
NC_010448.4 81073388	81288232	XL0C_016409 NC_010448.4 81089655	81113277	
HTR1D . -				
NC_010448.4 81073388	81288232	XL0C_016409 NC_010448.4 81203067	81239823	
HNRNPR . -				
NC_010448.4 81073388	81288232	XL0C_016409 NC_010448.4 81267351	81304902	
TCEA3 . -				
NC_010448.4 81073388	81288232	XL0C_016409 NC_010448.4 80973263	81112206	
LUZP1 . -				
NC_010448.4 81684681	81895235	XL0C_016422 NC_010448.4 81659162	81692550	
CNR2 . -				
NC_010448.4 81684681	81895235	XL0C_016422 NC_010448.4 81722926	81726492	
PNRC2 . +				
NC_010448.4 81684681	81895235	XL0C_016422 NC_010448.4 81727893	81741516	
SRSF10 . -				
NC_010448.4 81684681	81895235	XL0C_016422 NC_010448.4 81803877	81859506	
MYOM3 . -				
NC_010448.4 81684681	81895235	XL0C_016422 NC_010448.4 81867849	81885017	
IL22RA1 . -				
NC_010448.4 81684681	81895235	XL0C_016422 NC_010448.4 81893997	81914104	
IFNLR1 . -				
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LIN28A . +				
NC_010448.4 83783521	83984424	XL0C_016446 NC_010448.4 83857114	83861907	
HMG2 . +				
NC_010448.4 83783521	83984424	XL0C_016446 NC_010448.4 83823262	83855101	
DHDDS . +				
NC_010448.4 83783521	83984424	XL0C_016446 NC_010448.4 83905124	83947189	
RPS6KA1 . +				
NC_010448.4 88692595	88900809	XL0C_016490 NC_010448.4 88691864	88695877	
TMEM234 . -				
NC_010448.4 88692595	88900809	XL0C_016490 NC_010448.4 88705153	88712848	
LOC106510645 . -				
NC_010448.4 88692595	88900809	XL0C_016490 NC_010448.4 88715710	88717272	
FAM167B . +				
NC_010448.4 88692595	88900809	XL0C_016490 NC_010448.4 88785412	88787772	
MARCKSL1 . -				
NC_010448.4 88692595	88900809	XL0C_016490 NC_010448.4 88808634	88813694	
FAM229A . -				
NC_010448.4 88692595	88900809	XL0C_016490 NC_010448.4 88810023	88811559	

TSSK3	.	+				
NC_010448.4	88692595	88900809	XL0C_016490	NC_010448.4	88695926	88705083
EIF3I	.	+				
NC_010448.4	88692595	88900809	XL0C_016490	NC_010448.4	88749611	88785220
HDAC1	.	+				
NC_010448.4	88692595	88900809	XL0C_016490	NC_010448.4	88808662	88839208
BSDC1	.	-				
NC_010448.4	88692595	88900809	XL0C_016490	NC_010448.4	88719886	88745922
LCK	.	+				
NC_010448.4	88692595	88900809	XL0C_016490	NC_010448.4	88856313	88878386
ZBTB8B	.	+				
NC_010448.4	135947318	136155570	XL0C_016700	NC_010448.4	136057996	
136175236	PIGK	.	+			
NC_010448.4	135947318	136155570	XL0C_016700	NC_010448.4	135745879	
136020585	AK5	.	-			
NC_010448.4	148922552	149125474	XL0C_016740	NC_010448.4	148999426	
149006926	LOC100522498	.	+			
NC_010448.4	148922552	149125474	XL0C_016740	NC_010448.4	148939050	
148997790	EFCAB7	.	-			
NC_010448.4	148922552	149125474	XL0C_016740	NC_010448.4	149026253	
149112706	ALG6	.	-			
NC_010448.4	149046629	149248514	XL0C_016742	NC_010448.4	149153397	
149155576	FOXD3	.	-			
NC_010448.4	149046629	149248514	XL0C_016742	NC_010448.4	149026253	
149112706	ALG6	.	-			
NC_010448.4	163521403	163722716	XL0C_016814	NC_010448.4	163429244	
163568542	SLC5A9	.	-			
NC_010448.4	163521403	163722716	XL0C_016814	NC_010448.4	163624078	
163836829	TRABD2B	.	+			
NC_010448.4	168433678	168635298	XL0C_016872	NC_010448.4	168629009	
168633984	SVBP	.	+			
NC_010448.4	168433678	168635298	XL0C_016872	NC_010448.4	168596522	
168643437	ERMAP	.	-			
NC_010448.4	168433678	168635298	XL0C_016872	NC_010448.4	168535398	
168561170	SLC2A1	.	+			
NC_010448.4	168433678	168635298	XL0C_016872	NC_010448.4	168540461	
168596451	ZNF691	.	-			
NC_010449.5	4127152	4329248	XL0C_017640	NC_010449.5	4108124	4156629 LY86 .
						+
NC_010449.5	31252511	31461173	XL0C_017959	NC_010449.5	31327763	31330624
RPL10A	.	+				
NC_010449.5	31252511	31461173	XL0C_017959	NC_010449.5	31222533	31295221
PPARD	.	+				
NC_010449.5	31252511	31461173	XL0C_017959	NC_010449.5	31337890	31351452

TEAD3	.	-				
NC_010449.5	31252511	31461173	XL0C_017959	NC_010449.5	31362670	31379948
TULP1	.	-				
NC_010449.5	31252511	31461173	XL0C_017959	NC_010449.5	31441764	31550704
FKBP5	.	-				
NC_010449.5	38170536	38371466	XL0C_018027	NC_010449.5	38213300	38223686
SRF	.	+				
NC_010449.5	38170536	38371466	XL0C_018027	NC_010449.5	38263819	38267361
DNPH1	.	-				
NC_010449.5	38170536	38371466	XL0C_018027	NC_010449.5	38328474	38334879
SLC22A7	.	+				
NC_010449.5	38170536	38371466	XL0C_018027	NC_010449.5	38224023	38263429
CUL9	.	+				
NC_010449.5	38170536	38371466	XL0C_018027	NC_010449.5	38276466	38319486
TTBK1	.	+				
NC_010449.5	38170536	38371466	XL0C_018027	NC_010449.5	38334616	38338626
CRIP3	.	-				
NC_010449.5	38170536	38371466	XL0C_018027	NC_010449.5	38343372	38388883
ZNF318	.	-				
NC_010449.5	38170536	38371466	XL0C_018027	NC_010449.5	38135675	38205662
PTK7	.	+				
NC_010449.5	38361100	38563870	XL0C_018031	NC_010449.5	38506642	38511458
YIPF3	.	-				
NC_010449.5	38361100	38563870	XL0C_018031	NC_010449.5	38343372	38388883
ZNF318	.	-				
NC_010449.5	38361100	38563870	XL0C_018031	NC_010449.5	38432720	38452689
ABCC10	.	+				
NC_010449.5	38361100	38563870	XL0C_018031	NC_010449.5	38452617	38457632
DLK2	.	-				
NC_010449.5	38361100	38563870	XL0C_018031	NC_010449.5	38475181	38501532
TJAP1	.	+				
NC_010449.5	38361100	38563870	XL0C_018031	NC_010449.5	38499381	38504803
LRRC73	.	-				
NC_010449.5	38361100	38563870	XL0C_018031	NC_010449.5	38511521	38531938
POLR1C	.	+				
NC_010449.5	38361100	38563870	XL0C_018031	NC_010449.5	38530704	38569558
XP05	.	-				
NC_010449.5	43569533	43774605	XL0C_018063	NC_010449.5	43597313	43624603
MUT	.	-				
NC_010449.5	43569533	43774605	XL0C_018063	NC_010449.5	43624734	43639907
CENPQ	.	+				
NC_010449.5	43569533	43774605	XL0C_018063	NC_010449.5	43704152	43730944
RHAG	.	-				
NC_010449.5	43569533	43774605	XL0C_018063	NC_010449.5	43751174	43771050

CRISP2 . -				
NC_010449.5 43569533	43774605	XL0C_018063 NC_010449.5 43641443	43659754	
GLYATL3 . +				
NC_010449.5 47679080	47887641	XL0C_018082 NC_010449.5 47759436	47778948	
IDH3A . -				
NC_010449.5 47679080	47887641	XL0C_018082 NC_010449.5 47807806	47813400	
CIB2 . +				
NC_010449.5 47679080	47887641	XL0C_018082 NC_010449.5 47812996	47824926	
SH2D7 . -				
NC_010449.5 47679080	47887641	XL0C_018082 NC_010449.5 47705091	47760797	
ACSBG1 . +				
NC_010449.5 47679080	47887641	XL0C_018082 NC_010449.5 47839380	47927287	
TBC1D2B . +				
NC_010449.5 58898935	59105175	XL0C_018191 NC_010449.5 58895407	58909616	
CLK3 . -				
NC_010449.5 58898935	59105175	XL0C_018191 NC_010449.5 59006838	59070598	
LOC100525054 . -				
NC_010449.5 58898935	59105175	XL0C_018191 NC_010449.5 59070666	59084119	
UBL7 . +				
NC_010449.5 58898935	59105175	XL0C_018191 NC_010449.5 58932450	58998707	
ARID3B . -				
NC_010449.5 58898935	59105175	XL0C_018191 NC_010449.5 59094919	59119534	
SEMA7A . +				
NC_010449.5 77983082	78187776	XL0C_018319 NC_010449.5 77992961	77998062	
LOC110261607 . +				
NC_010449.5 77983082	78187776	XL0C_018319 NC_010449.5 78092656	78096093	
LOC100626020 . -				
NC_010449.5 77983082	78187776	XL0C_018319 NC_010449.5 78106126	78108570	
TPPP2 . -				
NC_010449.5 77983082	78187776	XL0C_018319 NC_010449.5 78127628	78132900	
SLC39A2 . -				
NC_010449.5 77983082	78187776	XL0C_018319 NC_010449.5 78138237	78145322	
METTL17 . -				
NC_010449.5 77983082	78187776	XL0C_018319 NC_010449.5 78179285	78180221	
LOC102163838 . -				
NC_010449.5 77983082	78187776	XL0C_018319 NC_010449.5 77991665	78033146	
TMEM253 . -				
NC_010449.5 77983082	78187776	XL0C_018319 NC_010449.5 78028560	78043491	
ZNF219 . +				
NC_010449.5 77983082	78187776	XL0C_018319 NC_010449.5 78043995	78067546	
ARHGEF40 . -				
NC_010449.5 77983082	78187776	XL0C_018319 NC_010449.5 78096249	78107768	
RNASE13 . +				
NC_010449.5 77983082	78187776	XL0C_018319 NC_010449.5 78111736	78121216	

NDRG2 . +
 NC_010449.5 114069300 114273605 XLOC_018521 NC_010449.5 114176217
 114210096 LGMN . -
 NC_010449.5 114069300 114273605 XLOC_018521 NC_010449.5 114237059
 114273916 GOLGA5 . +
 NC_010449.5 114069300 114273605 XLOC_018521 NC_010449.5 114035137
 114166548 RIN3 . +
 NC_010449.5 121511571 121713469 XLOC_018571 NC_010449.5 121565844
 121577493 DLK1 . +
 NC_010449.5 121511571 121713469 XLOC_018571 NC_010449.5 121706955
 121720472 RTL1 . -
 NC_010449.5 121551657 121754984 XLOC_018572 NC_010449.5 121565844
 121577493 DLK1 . +
 NC_010449.5 121551657 121754984 XLOC_018572 NC_010449.5 121706955
 121720472 RTL1 . -
 NC_010449.5 121717853 121919824 XLOC_018578 NC_010449.5 121706955
 121720472 RTL1 . -
 NC_010449.5 121717853 121919824 XLOC_018578 NC_010449.5 121792388
 121815374 LOC110261647 . +
 NC_010449.5 3913459 4118937 XLOC_018606 NC_010449.5 4108124 4156629 LY86 .
 +
 NC_010449.5 3919001 4129610 XLOC_018607 NC_010449.5 4108124 4156629 LY86 .
 +
 NC_010449.5 22521998 22726774 XLOC_018798 NC_010449.5 22595565 22606137
 MOG . +
 NC_010449.5 22521998 22726774 XLOC_018798 NC_010449.5 22626871 22631557
 ZNRD1 . +
 NC_010449.5 22521998 22726774 XLOC_018798 NC_010449.5 22634074 22636987
 PPP1R11 . +
 NC_010449.5 22521998 22726774 XLOC_018798 NC_010449.5 22637732 22642427
 RNF39 . -
 NC_010449.5 22521998 22726774 XLOC_018798 NC_010449.5 22527596 22528534
 OLF42-1 . +
 NC_010449.5 22521998 22726774 XLOC_018798 NC_010449.5 22547938 22577639
 GABBR1 . -
 NC_010449.5 22521998 22726774 XLOC_018798 NC_010449.5 22607420 22612064
 ZFP57 . -
 NC_010449.5 22521998 22726774 XLOC_018798 NC_010449.5 22702891 22717850
 TRIM40 . +
 NC_010449.5 22521998 22726774 XLOC_018798 NC_010449.5 22718000 22731445
 TRIM10 . -
 NC_010449.5 22521998 22726774 XLOC_018798 NC_010449.5 22665150 22681616
 TRIM31 . -
 NC_010449.5 29581532 29786307 XLOC_018899 NC_010449.5 29638856 29642912

RPS18 . +					
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B3GALT4 . +					
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DAXX . -					
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VPS52 . -					
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PKM . +					
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GRAMD2A . +					
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 NC_010450.4 137781158 138027603 XLOC_020771 NC_010450.4 137728849
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NC_010450.4 614192 819044 XLOC_020789 NC_010450.4 802940 818161 SLBP .
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 +
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 +
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 FGG . +
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 FGB . -
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 DCHS2 . +
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 100863780 SPRY1 . -
 NC_010450.4 108412675 108733956 XLOC_021191 NC_010450.4 108710636

108804846	ARSJ	.	+			
NC_010450.4	109903357	110105571		XLOC_021195	NC_010450.4	110069565
110089789	LARP7	.	-			
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114145946	SGMS2	.	-			
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NC_010450.4	118129046	118330547		XLOC_021241	NC_010450.4	118152580
118164695	CISD2	.	-			
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NC_010450.4	125687652	125897816		XLOC_021263	NC_010450.4	125703823
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NC_010450.4	136559077	136765923		XLOC_021312	NC_010450.4	136754698
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136595051	RASGEF1B	.	+			
NC_010451.4	281548	485767		XLOC_022016	NC_010451.4	268372 357334 DENND5A .
						+
NC_010451.4	281548	485767		XLOC_022016	NC_010451.4	462623 510263 TMEM9B .
						+
NC_010451.4	281548	485767		XLOC_022016	NC_010451.4	389806 457651 SCUBE2 .
						+
NC_010451.4	33986414	34197901		XLOC_022305	NC_010451.4	33720920 34039954
	DYNC2H1	.	+			
NC_010451.4	46791794	46997462		XLOC_022403	NC_010451.4	46823552 46891564

NECTIN1 . -				
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VWDE . -				
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SCIN . +				
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SEMA3E . +				
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131822555 TRAF5 . -				
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131890822 RCOR3 . -				
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132336029 KCNH1 . +				
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+				
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+				
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+				
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CWC15 . -				
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LOC100627657 . +				
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AMOTL1 . +				
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CWC15 . -				
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LOC100627380 . +				
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LOC100514356 .	+			
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ENDOD1 .	+			
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SESN3 .	-			
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TMEM106B .	+			
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VWDE .	-			
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ISPD .	-			
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102171199 MAGI2 .	+			
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109247000 ZNF786 .	+			
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109228364 ZNF425 .	+			
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109214760 LOC100522942 .	-			
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114098765 MYOC .	-			
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114218371 METTL13 .	+			
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114174996 VAMP4 .	-			
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114805252 DNM3 .	+			
NC_010451.4 132605445	132819608	XL0C_023735 NC_010451.4 132737291		
132748443 SERTAD4 .	-			
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133040855 SYT14 .	-			
NC_010452.4 1575211 1781297	XL0C_024367 NC_010452.4 1553365 1664629 LOC102158399			
. +				
NC_010452.4 10170856	10375672	XL0C_024390 NC_010452.4 10263441	10269882	

HLX . +					
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MARC1 . +					
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COQ8A . +					
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ITPKB . -					
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PSEN2 . +					
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CDC42BPA . -					
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LOC100621751 . -					
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MPP7 . -					
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WAC . +					
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JCAD . +					
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SVIL . +					
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SKIDA1 . +					
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MLLT10 . -					
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NRP1 . -					
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LARP4B . +					
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DIP2C . +					
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+					
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. -					
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SRP9	. +					
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ENAH	. -					
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ISCA1	. +					
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C10H9orf153	. +					
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ZEB1	. +					
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LOC110255603	. -					
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PRTFDC1	. +					
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ARHGAP21	. +					
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PARD3	. -					
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LOC102164731	. -					
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CUL2	. -					
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CCNY	. +					
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GJD4	. +					
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FZD8	. -					
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NC_010452.4	57964361	58167088	XL0C_024989	NC_010452.4	58069679	58076738
GJD4	. +					
NC_010452.4	57964361	58167088	XL0C_024989	NC_010452.4	58093980	58096790
FZD8	. -					
NC_010452.4	57964361	58167088	XL0C_024989	NC_010452.4	57929484	58057964

CCNY	.	+					
NC_010452.4	59912884	60118417	XL0C_024999	NC_010452.4	60033509	60077360	
PROSER2	.	-					
NC_010452.4	59912884	60118417	XL0C_024999	NC_010452.4	60117425	60138662	
ECHDC3	.	-					
NC_010452.4	59912884	60118417	XL0C_024999	NC_010452.4	59893106	59993403	
UPF2	.	+					
NC_010453.5	0 110250	XL0C_025465	NC_010453.5	56731 70337	LOC110255765	.	
+							
NC_010453.5	0 121568	XL0C_025466	NC_010453.5	56731 70337	LOC110255765	.	
+							
NC_010453.5	0 121568	XL0C_025466	NC_010453.5	113901 144765	ATP12A	.	+
NC_010453.5	0 131537	XL0C_025467	NC_010453.5	56731 70337	LOC110255765	.	
+							
NC_010453.5	0 131537	XL0C_025467	NC_010453.5	113901 144765	ATP12A	.	+
NC_010453.5	12276942	12490840	XL0C_025530	NC_010453.5	12203100	12309725	
LOC100624094	.	-					
NC_010453.5	12276942	12490840	XL0C_025530	NC_010453.5	12396149	12405357	
CCNA1	.	+					
NC_010453.5	12276942	12490840	XL0C_025530	NC_010453.5	12313211	12346226	
SPG20	.	-					
NC_010453.5	16823367	17027453	XL0C_025561	NC_010453.5	16970802	16990609	
DLEU7	.	+					
NC_010453.5	16823367	17027453	XL0C_025561	NC_010453.5	16825799	16911959	
RNASEH2B	.	-					
NC_010453.5	52060853	52465010	XL0C_025648	NC_010453.5	52153695	52158766	
SPRY2	.	-					
NC_010453.5	60632003	60834553	XL0C_025663	NC_010453.5	60791000	62149911	
GPC5	.	+					
NC_010453.5	70923052	71126606	XL0C_025702	NC_010453.5	71008854	71021640	
METTL21C	.	-					
NC_010453.5	70923052	71126606	XL0C_025702	NC_010453.5	71077717	71085063	
TEX30	.	-					
NC_010453.5	70923052	71126606	XL0C_025702	NC_010453.5	70943142	71009381	
TPP2	.	+					
NC_010453.5	70923052	71126606	XL0C_025702	NC_010453.5	71047611	71069998	
CCDC168	.	-					
NC_010453.5	70923052	71126606	XL0C_025702	NC_010453.5	71095116	71110490	
KDELC1	.	-					
NC_010453.5	70923052	71126606	XL0C_025702	NC_010453.5	71110463	71138861	
BIVM	.	+					
NC_010453.5	3712598 3920720	XL0C_025777	NC_010453.5	3806297 3812170	SHISA2	.	
-							
NC_010453.5	3712598 3920720	XL0C_025777	NC_010453.5	3277395 3793881	LOC100523747		

. +
 NC_010453.5 3712598 3920720 XLOC_025777 NC_010453.5 3839083 4000588 LOC100625134
 . -
 NC_010453.5 4095260 4296561 XLOC_025780 NC_010453.5 4054442 4161501 CDK8 .
 +
 NC_010453.5 4095260 4296561 XLOC_025780 NC_010453.5 4261121 4366258 WASF3 .
 +
 NC_010453.5 5800664 6005832 XLOC_025795 NC_010453.5 5983198 6000728 SLC46A3 .
 -
 NC_010453.5 12062160 12279875 XLOC_025820 NC_010453.5 12203100 12309725
 LOC100624094 . -
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 DCLK1 . -
 NC_010453.5 23900464 24108702 XLOC_025891 NC_010453.5 24011530 24087156
 DNAJC15 . -
 NC_010453.5 52059339 52260561 XLOC_025944 NC_010453.5 52153695 52158766
 SPRY2 . -
 NC_010453.5 77130778 77331460 XLOC_026019 NC_010453.5 77270272 77278346
 ING1 . +
 NC_010453.5 77130778 77331460 XLOC_026019 NC_010453.5 77167052 77188893
 RAB20 . -
 NC_010453.5 77130778 77331460 XLOC_026019 NC_010453.5 77210164 77230687
 NAXD . +
 NC_010453.5 77130778 77331460 XLOC_026019 NC_010453.5 77231865 77269936
 CARS2 . -
 NC_010453.5 77130778 77331460 XLOC_026019 NC_010453.5 76996885 77161617
 COL4A2 . +
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 ANKRD10 . -
 NC_010454.4 1976507 2179747 XLOC_026532 NC_010454.4 2036727 2046202 NPTX1 .
 +
 NC_010454.4 1976507 2179747 XLOC_026532 NC_010454.4 1709121 1991844 RPTOR .
 -
 NC_010454.4 4392572 4597883 XLOC_026560 NC_010454.4 4439045 4489078 SEC14L1 .
 -
 NC_010454.4 19482387 19693218 XLOC_026732 NC_010454.4 19649379 19651366
 ARL4D . -
 NC_010454.4 19482387 19693218 XLOC_026732 NC_010454.4 19531507 19548303
 ETV4 . +
 NC_010454.4 19482387 19693218 XLOC_026732 NC_010454.4 19549280 19582090
 DHX8 . -
 NC_010454.4 19597901 19801711 XLOC_026733 NC_010454.4 19649379 19651366
 ARL4D . -
 NC_010454.4 19597901 19801711 XLOC_026733 NC_010454.4 19747346 19755586

TMEM106A . -				
NC_010454.4 19597901	19801711	XL0C_026733 NC_010454.4 19755733	19789014	
NBR1 . -				
NC_010454.4 19597901	19801711	XL0C_026733 NC_010454.4 19788087	19854515	
BRCA1 . +				
NC_010454.4 25454149	25657429	XL0C_026866 NC_010454.4 25484518	25553939	
ZNF652 . -				
NC_010454.4 25454149	25657429	XL0C_026866 NC_010454.4 25596520	25609693	
PHB . -				
NC_010454.4 26309006	26513119	XL0C_026877 NC_010454.4 26466613	26472865	
TMEM92 . +				
NC_010454.4 26309006	26513119	XL0C_026877 NC_010454.4 26295159	26315548	
SAMD14 . -				
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PPP1R9B . -				
NC_010454.4 26309006	26513119	XL0C_026877 NC_010454.4 26356691	26368561	
SGCA . +				
NC_010454.4 26309006	26513119	XL0C_026877 NC_010454.4 26379087	26397180	
COL1A1 . -				
NC_010454.4 26348983	26561623	XL0C_026878 NC_010454.4 26466613	26472865	
TMEM92 . +				
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SGCA . +				
NC_010454.4 26348983	26561623	XL0C_026878 NC_010454.4 26379087	26397180	
COL1A1 . -				
NC_010454.4 26348983	26561623	XL0C_026878 NC_010454.4 26534897	26562913	
LOC110255209 . -				
NC_010454.4 27020271	27224861	XL0C_026893 NC_010454.4 27039007	27044677	
LOC100626580 . -				
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TOB1 . -				
NC_010454.4 27020271	27224861	XL0C_026893 NC_010454.4 27004894	27032156	
LUC7L3 . +				
NC_010454.4 27020271	27224861	XL0C_026893 NC_010454.4 27093241	27100423	
WFIKN2 . +				
NC_010454.4 45296735	45502615	XL0C_027025 NC_010454.4 45466051	45473110	
CRYBA1 . +				
NC_010454.4 45296735	45502615	XL0C_027025 NC_010454.4 45306327	45319938	
LOC100515508 . +				
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TIAF1 . -				
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NUFIP2 . -				
NC_010454.4 56285551	56487413	XL0C_027169 NC_010454.4 56045079	56366327	

DNAH9 . +
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 ZNF18 . -
 NC_010454.4 56285551 56487413 XLOC_027169 NC_010454.4 56402029 56516217
 MAP2K4 . +
 NC_010454.4 1986129 2189741 XLOC_027267 NC_010454.4 2036727 2046202 NPTX1 .
 +
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 -
 NC_010454.4 2096270 2296887 XLOC_027274 NC_010454.4 2241824 2248388 SGSH .
 +
 NC_010454.4 2096270 2296887 XLOC_027274 NC_010454.4 2248337 2275015 CARD14 .
 -
 NC_010454.4 2096270 2296887 XLOC_027274 NC_010454.4 2285679 2311750 EIF4A3 .
 +
 NC_010454.4 2096270 2296887 XLOC_027274 NC_010454.4 2220679 2241802 SLC26A11 .
 -
 NC_010454.4 58991049 59192256 XLOC_027913 NC_010454.4 59171258 59172841
 UBB . -
 NC_010454.4 58991049 59192256 XLOC_027913 NC_010454.4 58986448 59006958
 ZNF624 . +
 NC_010454.4 58991049 59192256 XLOC_027913 NC_010454.4 59038737 59056979
 ZNF287 . +
 NC_010454.4 58991049 59192256 XLOC_027913 NC_010454.4 59132529 59152633
 TRPV2 . -
 NC_010454.4 58991049 59192256 XLOC_027913 NC_010454.4 59094713 59132516
 LRRC75A . +
 NC_010455.5 3575285 3779442 XLOC_028334 NC_010455.5 3762896 3783848 DAZL .
 -
 NC_010455.5 3575285 3779442 XLOC_028334 NC_010455.5 3454448 3675072 RFTN1 .
 -
 NC_010455.5 16949322 17160971 XLOC_028361 NC_010455.5 16892162 17049314
 GADL1 . -
 NC_010455.5 53965536 54167325 XLOC_028591 NC_010455.5 54073012 54180759
 SHQ1 . -
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 106636930 SERPINI1 . +
 NC_010455.5 123655044 123859228 XLOC_028901 NC_010455.5 123760008
 123780919 TRA2B . -
 NC_010455.5 123655044 123859228 XLOC_028901 NC_010455.5 123802640
 123837673 LOC110256379 . +
 NC_010455.5 150877189 151091240 XLOC_029050 NC_010455.5 150934065
 150966326 KIAA1524 . +
 NC_010455.5 150877189 151091240 XLOC_029050 NC_010455.5 150796658

150934045	DZIP3	.	-	
NC_010455.5	150877189	151091240	XL0C_029050	NC_010455.5 151008571
151156933	MYH15	.	+	
NC_010455.5	168475022	168745098	XL0C_029088	NC_010455.5 168510671
168530394	POU1F1	.	+	
NC_010455.5	168475022	168745098	XL0C_029088	NC_010455.5 168534950
168569574	CHMP2B	.	-	
NC_010455.5	202810710	203029576	XL0C_029195	NC_010455.5 202936313
202943496	HMGNI	.	-	
NC_010455.5	202810710	203029576	XL0C_029195	NC_010455.5 202776040
202896545	BRWD1	.	-	
NC_010455.5	202810710	203029576	XL0C_029195	NC_010455.5 202962652
202978390	WRB	.	+	
NC_010455.5	202810710	203029576	XL0C_029195	NC_010455.5 202988483
203045199	LCA5L	.	-	
NC_010455.5	205146692	205348971	XL0C_029214	NC_010455.5 205174356
205241562	PRDM15	.	-	
NC_010455.5	205146692	205348971	XL0C_029214	NC_010455.5 205345675
205365151	ZBTB21	.	-	
NC_010455.5	205146692	205348971	XL0C_029214	NC_010455.5 205127239
205153000	RIPK4	.	-	
NC_010455.5	205146692	205348971	XL0C_029214	NC_010455.5 205248991
205313868	C2CD2	.	-	
NC_010455.5	206611172	206812757	XL0C_029226	NC_010455.5 206706060
206710598	CSTB	.	-	
NC_010455.5	206611172	206812757	XL0C_029226	NC_010455.5 206629176
206653374	RRP1B	.	+	
NC_010455.5	206611172	206812757	XL0C_029226	NC_010455.5 206676905
206699047	PDXK	.	+	
NC_010455.5	206611172	206812757	XL0C_029226	NC_010455.5 206722591
206736000	RRP1	.	+	
NC_010455.5	206611172	206812757	XL0C_029226	NC_010455.5 206803219
206906363	AGPAT3	.	+	
NC_010455.5	206611172	206812757	XL0C_029226	NC_010455.5 206545353
206629151	HSF2BP	.	-	
NC_010455.5	206964957	207175457	XL0C_029232	NC_010455.5 207148401
207158355	AIRE	.	+	
NC_010455.5	206964957	207175457	XL0C_029232	NC_010455.5 207015047
207031752	PWP2	.	+	
NC_010455.5	206964957	207175457	XL0C_029232	NC_010455.5 207042929
207051814	C13H21orf33	.	+	
NC_010455.5	206964957	207175457	XL0C_029232	NC_010455.5 207106202
207115886	ICOSLG	.	-	
NC_010455.5	206964957	207175457	XL0C_029232	NC_010455.5 207119025

207141990	DNMT3L	.	-				
NC_010455.5	206964957	207175457	XL0C_029232	NC_010455.5	207167287		
207191688	PFKL	.	+				
NC_010455.5	206964957	207175457	XL0C_029232	NC_010455.5	206936311		
207013112	TRAPPC10	.	+				
NC_010455.5	207696144	207896904	XL0C_029250	NC_010455.5	207801101		
207818138	POFUT2	.	-				
NC_010455.5	207696144	207896904	XL0C_029250	NC_010455.5	207746915		
207791809	ADARB1	.	+				
NC_010455.5	1543953	1777494	XL0C_029259	NC_010455.5	1730988	1815555	PIK3R4 .
							+
NC_010455.5	1543953	1777494	XL0C_029259	NC_010455.5	1461562	1580035	ATP2C1 .
							-
NC_010455.5	3813150	4032348	XL0C_029274	NC_010455.5	3992230	4201574	PLCL2 .
							+
NC_010455.5	5051348	5373584	XL0C_029277	NC_010455.5	5315985	5410686	SATB1 .
							-
NC_010455.5	5203623	5404899	XL0C_029278	NC_010455.5	5315985	5410686	SATB1 .
							-
NC_010455.5	18660229	18861846	XL0C_029319	NC_010455.5	18860596	18865987	
	CCR4	.	+				
NC_010455.5	18660229	18861846	XL0C_029319	NC_010455.5	18649725	18736075	
	CNOT10	.	+				
NC_010455.5	18660229	18861846	XL0C_029319	NC_010455.5	18762043	18835788	
	TRIM71	.	+				
NC_010455.5	29590008	29796093	XL0C_029378	NC_010455.5	29676713	29685965	
	LOC100515578	.	-				
NC_010455.5	29590008	29796093	XL0C_029378	NC_010455.5	29730271	29735616	
	MYL3	.	-				
NC_010455.5	29590008	29796093	XL0C_029378	NC_010455.5	29596696	29618915	
	ALS2CL	.	-				
NC_010455.5	29590008	29796093	XL0C_029378	NC_010455.5	29633575	29638994	
	PRSS50	.	-				
NC_010455.5	29590008	29796093	XL0C_029378	NC_010455.5	29640448	29665549	
	PRSS46	.	-				
NC_010455.5	29590008	29796093	XL0C_029378	NC_010455.5	29785581	29846683	
	CCDC12	.	-				
NC_010455.5	29590008	29796093	XL0C_029378	NC_010455.5	29749940	29775361	
	PTH1R	.	+				
NC_010455.5	77214934	77421113	XL0C_029620	NC_010455.5	77217481	77314779	
	PCCB	.	+				
NC_010455.5	77214934	77421113	XL0C_029620	NC_010455.5	77321872	77863533	
	STAG1	.	-				
NC_010455.5	83591604	83804416	XL0C_029650	NC_010455.5	83660387	83669522	

PAQR9 . -			
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PCOLCE2 . -			
NC_010455.5 83591604	83804416	XLOC_029650 NC_010455.5 83704501	83759800
U2SURP . +			
NC_010455.5 100338967	100542279	XLOC_029720 NC_010455.5 100348053	
100355093 ARL14 . +			
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100759968 PPM1L . +			
NC_010455.5 110368549	110652783	XLOC_029749 NC_010455.5 110414389	
110434357 TMEM212 . +			
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110376319 PLD1 . -			
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110931687 FNDC3B . +			
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111103060 TNFSF10 . -			
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152168771 LOC102157687 . +			
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200652401 RIPPLY3 . +			
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200695537 PIGP . -			
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200618967 HLCS . -			
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200821920 TTC3 . +			
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200652401 RIPPLY3 . +			
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200695537 PIGP . -			
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200618967 HLCS . -			
NC_010455.5 200575269	200786108	XLOC_030136 NC_010455.5 200695624	

200821920 TTC3 . +
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 206465802 SIK1 . -
 NC_010455.5 206396341 206598261 XLOC_030175 NC_010455.5 206545353
 206629151 HSF2BP . -
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 207637009 LOC110256558 . +
 NC_010455.5 207566926 207776681 XLOC_030192 NC_010455.5 207746915
 207791809 ADARB1 . +
 NC_010455.5 207743120 207947009 XLOC_030194 NC_010455.5 207801101
 207818138 POFUT2 . -
 NC_010455.5 207743120 207947009 XLOC_030194 NC_010455.5 207907835
 207984082 COL18A1 . +
 NC_010455.5 207743120 207947009 XLOC_030194 NC_010455.5 207746915
 207791809 ADARB1 . +
 NC_010455.5 207747821 207960832 XLOC_030195 NC_010455.5 207801101
 207818138 POFUT2 . -
 NC_010455.5 207747821 207960832 XLOC_030195 NC_010455.5 207907835
 207984082 COL18A1 . +
 NC_010455.5 207747821 207960832 XLOC_030195 NC_010455.5 207746915
 207791809 ADARB1 . +
 NC_010456.5 6334910 6536392 XLOC_031093 NC_010456.5 6348523 6354769 LOC110256689
 . +
 NC_010456.5 6334910 6536392 XLOC_031093 NC_010456.5 6378987 6381712 NUDT18 .
 -
 NC_010456.5 6334910 6536392 XLOC_031093 NC_010456.5 6411510 6415612 REEP4 .
 -
 NC_010456.5 6334910 6536392 XLOC_031093 NC_010456.5 6440309 6443104 SFTPC .
 +
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 +
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 +
 NC_010456.5 6334910 6536392 XLOC_031093 NC_010456.5 6355770 6357623 LOC110256690
 . +
 NC_010456.5 6334910 6536392 XLOC_031093 NC_010456.5 6360333 6376941 FAM160B2 .
 +
 NC_010456.5 6334910 6536392 XLOC_031093 NC_010456.5 6386900 6404968 HR . -
 NC_010456.5 6334910 6536392 XLOC_031093 NC_010456.5 6443773 6489066 BMP1 .
 +
 NC_010456.5 6334910 6536392 XLOC_031093 NC_010456.5 6494395 6506747 PHYHIP .
 -

NC_010456.5	6334910	6536392	XL0C_031093	NC_010456.5	6419100	6429266	LGI3	.
-								
NC_010456.5	9930905	10185692	XL0C_031120	NC_010456.5	9816992	10027574	EBF2	.
-								
NC_010456.5	34416250	34623646	XL0C_031252	NC_010456.5	34523901		34530238	
PEBP1	.	-						
NC_010456.5	34416250	34623646	XL0C_031252	NC_010456.5	34608965		34630980	
WSB2	.	+						
NC_010456.5	34416250	34623646	XL0C_031252	NC_010456.5	34322016		34514234	
TAOK3	.	+						
NC_010456.5	34416250	34623646	XL0C_031252	NC_010456.5	34558160		34606892	
VSIG10	.	+						
NC_010456.5	40257638	40458573	XL0C_031283	NC_010456.5	40290288		40303887	
SIRT4	.	+						
NC_010456.5	40257638	40458573	XL0C_031283	NC_010456.5	40408600		40410810	
COX6A1	.	+						
NC_010456.5	40257638	40458573	XL0C_031283	NC_010456.5	40411957		40415500	
TRIAP1	.	-						
NC_010456.5	40257638	40458573	XL0C_031283	NC_010456.5	40425412		40433950	
SRSF9	.	-						
NC_010456.5	40257638	40458573	XL0C_031283	NC_010456.5	40455954		40458352	
DYNLL1	.	+						
NC_010456.5	40257638	40458573	XL0C_031283	NC_010456.5	40314520		40322315	
PLA2G1B	.	-						
NC_010456.5	40257638	40458573	XL0C_031283	NC_010456.5	40331371		40356793	
MSI1	.	-						
NC_010456.5	40257638	40458573	XL0C_031283	NC_010456.5	40413864		40425306	
GATC	.	+						
NC_010456.5	40257638	40458573	XL0C_031283	NC_010456.5	40227894		40278785	
PXN	.	-						
NC_010456.5	43351819	43567278	XL0C_031315	NC_010456.5	43305255		43445626	
GRK3	.	+						
NC_010456.5	43351819	43567278	XL0C_031315	NC_010456.5	43467823		43687729	
MYO18B	.	+						
NC_010456.5	56860829	57067081	XL0C_031447	NC_010456.5	56786918		56881046	
SLC35F3	.	-						
NC_010456.5	73574139	73777626	XL0C_031532	NC_010456.5	73565158		73657257	
ADAMTS14	.	+						
NC_010456.5	73574139	73777626	XL0C_031532	NC_010456.5	73682853		73695700	
TBATA	.	-						
NC_010456.5	73574139	73777626	XL0C_031532	NC_010456.5	73696902		73781830	
SGPL1	.	+						
NC_010456.5	73574139	73777626	XL0C_031532	NC_010456.5	73769339		73807278	
PCBD1	.	-						

NC_010456.5 75376528	75586397	XLOC_031540 NC_010456.5 75203731	75445628
MICU1 . -			
NC_010456.5 75376528	75586397	XLOC_031540 NC_010456.5 75518533	75721502
MCU . +			
NC_010456.5 81714258	81918926	XLOC_031570 NC_010456.5 81890265	81901909
PLAC9 . -			
NC_010456.5 81714258	81918926	XLOC_031570 NC_010456.5 81699420	81763994
ZCCHC24 . -			
NC_010456.5 81714258	81918926	XLOC_031570 NC_010456.5 81835205	81879565
ANXA11 . +			
NC_010456.5 120485622	120693653	XLOC_031772 NC_010456.5 120451421	
120583725 ADD3 . +			
NC_010456.5 120485622	120693653	XLOC_031772 NC_010456.5 120643691	
120722632 MXI1 . +			
NC_010456.5 140249315	140459796	XLOC_031882 NC_010456.5 140362123	
140371951 BNIP3 . -			
NC_010456.5 140249315	140459796	XLOC_031882 NC_010456.5 140327165	
140345279 LOC110256827 . -			
NC_010456.5 140249315	140459796	XLOC_031882 NC_010456.5 140397146	
140495317 JAKMIP3 . +			
NC_010456.5 30219334	30420813	XLOC_032067 NC_010456.5 30154918	30241988
KNTC1 . -			
NC_010456.5 30219334	30420813	XLOC_032067 NC_010456.5 30242063	30261166
RSRC2 . +			
NC_010456.5 30219334	30420813	XLOC_032067 NC_010456.5 30264397	30288068
ZCCHC8 . +			
NC_010456.5 30219334	30420813	XLOC_032067 NC_010456.5 30320870	30467095
CLIP1 . +			
NC_010456.5 59838770	60041127	XLOC_032312 NC_010456.5 59842653	59935025
PGBD5 . +			
NC_010456.5 59838770	60041127	XLOC_032312 NC_010456.5 59961255	60141379
GALNT2 . -			
NC_010456.5 66045516	66376965	XLOC_032345 NC_010456.5 66277224	66281964
ADO . +			
NC_010456.5 66045516	66376965	XLOC_032345 NC_010456.5 66280665	66291308
EGR2 . -			
NC_010456.5 72074767	72280063	XLOC_032365 NC_010456.5 72183368	72199262
SRGN . +			
NC_010456.5 72074767	72280063	XLOC_032365 NC_010456.5 72245526	72272948
SUPV3L1 . +			
NC_010456.5 72074767	72280063	XLOC_032365 NC_010456.5 72071879	72099800
KIF1BP . +			
NC_010456.5 72074767	72280063	XLOC_032365 NC_010456.5 72210486	72241441
VPS26A . +			

NC_010456.5	75011611	75217451	XL0C_032390	NC_010456.5	75117708	75119907
DDIT4	. +					
NC_010456.5	75011611	75217451	XL0C_032390	NC_010456.5	75082673	75093078
ANAPC16	. +					
NC_010456.5	75011611	75217451	XL0C_032390	NC_010456.5	75169076	75190109
DNAJB12	. -					
NC_010456.5	75011611	75217451	XL0C_032390	NC_010456.5	74975163	75109283
ASCC1	. -					
NC_010456.5	75011611	75217451	XL0C_032390	NC_010456.5	75203731	75445628
MICU1	. -					
NC_010456.5	102587042	102801199	XL0C_032515	NC_010456.5	102603777	
102612857	ANKRD1	. -				
NC_010456.5	102587042	102801199	XL0C_032515	NC_010456.5	102565802	
102606046	RPP30	. +				
NC_010456.5	105096384	105317782	XL0C_032530	NC_010456.5	105125513	
105169866	FRA10AC1	. -				
NC_010456.5	105096384	105317782	XL0C_032530	NC_010456.5	105010974	
105122628	PDE6C	. +				
NC_010456.5	105096384	105317782	XL0C_032530	NC_010456.5	105219901	
105251423	LGI1	. +				
NC_010457.5	29614277	29818638	XL0C_033458	NC_010457.5	29704499	29714096
TSN	. -					
NC_010457.5	29614277	29818638	XL0C_033458	NC_010457.5	29719024	29734811
NIFK	. +					
NC_010457.5	29614277	29818638	XL0C_033458	NC_010457.5	29782613	30042727
CLASP1	. +					
NC_010457.5	55585993	55907057	XL0C_033558	NC_010457.5	55513874	55681544
TNKS	. -					
NC_010457.5	64817927	65048415	XL0C_033596	NC_010457.5	64749478	64891653
ACVR1	. -					
NC_010457.5	112872466	113077056	XL0C_033783	NC_010457.5	112935631	
112969381	ACADL	. -				
NC_010457.5	112872466	113077056	XL0C_033783	NC_010457.5	113038083	
113051315	MYL1	. -				
NC_010457.5	112872466	113077056	XL0C_033783	NC_010457.5	112741127	
112902226	KANSL1L	. -				
NC_010457.5	126280251	126482751	XL0C_033861	NC_010457.5	126191605	
126287148	CUL3	. -				
NC_010457.5	126280251	126482751	XL0C_033861	NC_010457.5	126435577	
126711755	DOCK10	. -				
NC_010457.5	129420957	129680773	XL0C_033873	NC_010457.5	129308621	
129461142	SPHKAP	. -				
NC_010457.5	132917733	133132545	XL0C_033902	NC_010457.5	132974852	
132979361	LOC100522404	. +				

NC_010457.5	132917733	133132545	XLOC_033902	NC_010457.5	133040310	
133047839	CHRNA	.	+			
NC_010457.5	132917733	133132545	XLOC_033902	NC_010457.5	132919557	
132923570	LOC100521229	.	+			
NC_010457.5	132917733	133132545	XLOC_033902	NC_010457.5	132937975	
132941979	LOC100157453	.	+			
NC_010457.5	132917733	133132545	XLOC_033902	NC_010457.5	132988705	
132997924	ECEL1	.	-			
NC_010457.5	132917733	133132545	XLOC_033902	NC_010457.5	133051668	
133059935	CHRNA	.	+			
NC_010457.5	132917733	133132545	XLOC_033902	NC_010457.5	133060054	
133092624	EIF4E2	.	+			
NC_010457.5	132917733	133132545	XLOC_033902	NC_010457.5	133033848	
133039583	PRSS56	.	+			
NC_010457.5	132917733	133132545	XLOC_033902	NC_010457.5	133120092	
133169430	EFHD1	.	+			
NC_010457.5	138581805	138788777	XLOC_033948	NC_010457.5	138378237	
138657266	HDAC4	.	-			
NC_010457.5	138797671	139000443	XLOC_033950	NC_010457.5	138999174	
139031892	NDUFA10	.	-			
NC_010457.5	140156036	140357723	XLOC_033982	NC_010457.5	140248071	
140255803	DTYMK	.	-			
NC_010457.5	140156036	140357723	XLOC_033982	NC_010457.5	140264708	
140279020	ING5	.	+			
NC_010457.5	140156036	140357723	XLOC_033982	NC_010457.5	140355264	
140358828	RTP5	.	+			
NC_010457.5	140156036	140357723	XLOC_033982	NC_010457.5	140171134	
140184126	BOK	.	+			
NC_010457.5	140156036	140357723	XLOC_033982	NC_010457.5	140190198	
140223454	THAP4	.	-			
NC_010457.5	140156036	140357723	XLOC_033982	NC_010457.5	140223903	
140245590	ATG4B	.	+			
NC_010457.5	140156036	140357723	XLOC_033982	NC_010457.5	140282059	
140301894	D2HGDH	.	+			
NC_010457.5	140156036	140357723	XLOC_033982	NC_010457.5	140308612	
140322624	GAL3ST2	.	+			
NC_010457.5	140156036	140357723	XLOC_033982	NC_010457.5	140324087	
140332226	NEU4	.	+			
NC_010457.5	140156036	140357723	XLOC_033982	NC_010457.5	140337353	
140347493	PDCD1	.	-			
NC_010457.5	140156036	140357723	XLOC_033982	NC_010457.5	140245304	
140247782	LOC110256926	.	+			
NC_010457.5	13125578	13326934	XLOC_034017	NC_010457.5	13134221	13207737
SPOPL	.	-				

NC_010457.5	31456793	31660202	XL0C_034062	NC_010457.5	31578049	31582472
TMEM177	.	-				
NC_010457.5	31456793	31660202	XL0C_034062	NC_010457.5	31585043	31685867
CFAP221	.	-				
NC_010457.5	31456793	31660202	XL0C_034062	NC_010457.5	31305394	31502978
PTPN4	.	-				
NC_010457.5	55756993	56008703	XL0C_034153	NC_010457.5	56002383	56013477
PPP1R3B	.	+				
NC_010457.5	79830235	80034591	XL0C_034235	NC_010457.5	79935986	79990139
SP3	.	-				
NC_010457.5	79919975	80126036	XL0C_034237	NC_010457.5	79935986	79990139
SP3	.	-				
NC_010457.5	79919975	80126036	XL0C_034237	NC_010457.5	80081568	80253776
OLA1	.	-				
NC_010457.5	124538187	124738952	XL0C_034427	NC_010457.5	124568449	
124607925	MOGAT1	.	+			
NC_010457.5	124538187	124738952	XL0C_034427	NC_010457.5	124472236	
124555042	FARSB	.	-			
NC_010457.5	131357517	131562831	XL0C_034458	NC_010457.5	131492575	
131584963	CAB39	.	+			
NC_010457.5	131357517	131562831	XL0C_034458	NC_010457.5	131299923	
131381253	LOC100517129	.	+			
NC_010457.5	132178511	132381964	XL0C_034469	NC_010457.5	132266149	
132267612	TEX44	.	+			
NC_010457.5	132178511	132381964	XL0C_034469	NC_010457.5	132353763	
132361442	PTMA	.	+			
NC_010457.5	132178511	132381964	XL0C_034469	NC_010457.5	132217236	
132228645	NMUR1	.	-			
NC_010457.5	132178511	132381964	XL0C_034469	NC_010457.5	132376117	
132426678	PDE6D	.	-			
NC_010457.5	133767916	133970710	XL0C_034479	NC_010457.5	133870831	
133952863	USP40	.	-			
NC_010457.5	133767916	133970710	XL0C_034479	NC_010457.5	133968693	
134049029	UGT1A6	.	+			
NC_010457.5	133767916	133970710	XL0C_034479	NC_010457.5	133749349	
133867804	DGKD	.	+			
NC_010457.5	138844566	139052125	XL0C_034500	NC_010457.5	139040721	
139041685	LOC100521825	.	-			
NC_010457.5	138844566	139052125	XL0C_034500	NC_010457.5	139049403	
139050341	LOC100625810	.	-			
NC_010457.5	138844566	139052125	XL0C_034500	NC_010457.5	138999174	
139031892	NDUFA10	.	-			
NC_010457.5	139452723	139657519	XL0C_034509	NC_010457.5	139463791	
139471262	LOC102160973	.	-			

NC_010457.5	139452723	139657519	XL0C_034509	NC_010457.5	139536828	
139539448	DUSP28	.	+			
NC_010457.5	139452723	139657519	XL0C_034509	NC_010457.5	139600775	
139606712	LOC110257044	.	-			
NC_010457.5	139452723	139657519	XL0C_034509	NC_010457.5	139485294	
139531861	ANKMY1	.	-			
NC_010457.5	139452723	139657519	XL0C_034509	NC_010457.5	139542193	
139551257	RNPEPL1	.	+			
NC_010457.5	139452723	139657519	XL0C_034509	NC_010457.5	139557643	
139568764	CAPN10	.	+			
NC_010457.5	139452723	139657519	XL0C_034509	NC_010457.5	139571093	
139591638	GPR35	.	+			
NC_010457.5	139452723	139657519	XL0C_034509	NC_010457.5	139610624	
139694841	KIF1A	.	-			
NC_010457.5	139452723	139657519	XL0C_034509	NC_010457.5	139457866	
139483704	GPC1	.	+			
NC_010458.4	33644581	33852887	XL0C_035428	NC_010458.4	33716458	33717402
HSPB3	.	+				
NC_010458.4	33644581	33852887	XL0C_035428	NC_010458.4	33776964	33801391
SNX18	.	+				
NC_010458.4	34104416	34316182	XL0C_035430	NC_010458.4	34217339	34226139
GZMK	.	+				
NC_010458.4	34104416	34316182	XL0C_035430	NC_010458.4	34262495	34272084
GZMA	.	+				
NC_010458.4	34104416	34316182	XL0C_035430	NC_010458.4	34282160	34290422
GZMA	.	+				
NC_010458.4	34104416	34316182	XL0C_035430	NC_010458.4	34184255	34193877
ESM1	.	-				
NC_010458.4	34104416	34316182	XL0C_035430	NC_010458.4	33971490	34113679
LOC100737060	.	-				
NC_010458.4	34104416	34316182	XL0C_035430	NC_010458.4	34294486	34354588
CDC20B	.	-				
NC_010458.4	52508445	52713203	XL0C_035525	NC_010458.4	52533690	52548748
LOC106508653	.	-				
NC_010458.4	17808216	18022767	XL0C_035656	NC_010458.4	17848272	17868151
C16H5orf22	.	+				
NC_010458.4	17808216	18022767	XL0C_035656	NC_010458.4	17875623	17903853
LOC100525311	.	+				
NC_010458.4	17808216	18022767	XL0C_035656	NC_010458.4	17940113	18355540
PDZD2	.	+				
NC_010458.4	17808216	18022767	XL0C_035656	NC_010458.4	17727695	17847954
DROSHA	.	-				
NC_010458.4	19340640	19554938	XL0C_035664	NC_010458.4	19455294	19486735
TARS	.	+				

NC_010458.4	19340640	19554938	XL0C_035664	NC_010458.4	19547003	19920780
ADAMTS12	.	-				
NC_010458.4	33638351	33847414	XL0C_035739	NC_010458.4	33716458	33717402
HSPB3	.	+				
NC_010458.4	33638351	33847414	XL0C_035739	NC_010458.4	33776964	33801391
SNX18	.	+				
NC_010458.4	44586092	44791230	XL0C_035781	NC_010458.4	44578531	44621898
SREK1	.	+				
NC_010458.4	50741394	51036367	XL0C_035805	NC_010458.4	50989676	51001412
STC2	.	+				
NC_010458.4	50741394	51036367	XL0C_035805	NC_010458.4	50734510	50743417
BOD1	.	+				
NC_010459.5	186529	443177	XL0C_036223	NC_010459.5	435512	476107 LOC100524773
.	+					
NC_010459.5	186529	443177	XL0C_036223	NC_010459.5	120809	217773 LOC110257498
.	-					
NC_010459.5	8542645	8743490	XL0C_036250	NC_010459.5	8597047	8618746 MTNR1A .
+						
NC_010459.5	8542645	8743490	XL0C_036250	NC_010459.5	8698015	8715102 LOC110257387
.	-					
NC_010459.5	8542645	8743490	XL0C_036250	NC_010459.5	8466099	8580715 FAT1 .
+						
NC_010459.5	8542645	8743490	XL0C_036250	NC_010459.5	8644388	8665004 LOC100154844
.	-					
NC_010459.5	36140076	36350361	XL0C_036409	NC_010459.5	36345715	36386076
DNMT3B	.	+				
NC_010459.5	36140076	36350361	XL0C_036409	NC_010459.5	36070836	36201035
NOL4L	.	-				
NC_010459.5	36140076	36350361	XL0C_036409	NC_010459.5	36256243	36325479
COMMD7	.	-				
NC_010459.5	39427868	39669160	XL0C_036457	NC_010459.5	39498682	39521195
AAR2	.	+				
NC_010459.5	39427868	39669160	XL0C_036457	NC_010459.5	39360388	39495064
EPB41L1	.	+				
NC_010459.5	39427868	39669160	XL0C_036457	NC_010459.5	39626751	39775927
DLGAP4	.	+				
NC_010459.5	5670914	5880430	XL0C_036680	NC_010459.5	5712048	5749811 ASAH1 .
-						
NC_010459.5	5670914	5880430	XL0C_036680	NC_010459.5	5780847	5800503 FRG1 .
-						
NC_010459.5	5670914	5880430	XL0C_036680	NC_010459.5	5596926	5705752 PCM1 .
+						
NC_010459.5	8351062	8552564	XL0C_036686	NC_010459.5	8466099	8580715 FAT1 .
+						

NC_010459.5	14947723	15170297	XLOC_036724	NC_010459.5	15080585	15137947
FERMT1	.	-				
NC_010459.5	14947723	15170297	XLOC_036724	NC_010459.5	14924851	14972466
LOC100513319	.	-				
NC_010459.5	46479432	46689347	XLOC_036904	NC_010459.5	46673560	46686144
OSER1	.	-				
NC_010459.5	46479432	46689347	XLOC_036904	NC_010459.5	46433005	46577076
TOX2	.	+				
NC_010459.5	46479432	46689347	XLOC_036904	NC_010459.5	46590302	46665326
JPH2	.	-				
NC_010459.5	58793842	58996659	XLOC_037006	NC_010459.5	58874499	58891249
NPEPL1	.	+				
NC_010459.5	58793842	58996659	XLOC_037006	NC_010459.5	58985580	59053022
GNAS	.	+				
NC_010459.5	58793842	58996659	XLOC_037006	NC_010459.5	58839982	58873396
STX16	.	+				
NC_010459.5	58797628	59004211	XLOC_037007	NC_010459.5	58874499	58891249
NPEPL1	.	+				
NC_010459.5	58797628	59004211	XLOC_037007	NC_010459.5	58985580	59053022
GNAS	.	+				
NC_010459.5	58797628	59004211	XLOC_037007	NC_010459.5	58839982	58873396
STX16	.	+				
NC_010460.4	1681583	1882379	XLOC_037449	NC_010460.4	1724930	1730724
						MXN1
						.
NC_010460.4	1681583	1882379	XLOC_037449	NC_010460.4	1747217	1760914
						NOM1
						.
NC_010460.4	1681583	1882379	XLOC_037449	NC_010460.4	1795462	1934951
						LMBR1
						.
NC_010460.4	5829258	6033127	XLOC_037471	NC_010460.4	5840024	5848163
						CRYGN
						.
NC_010460.4	5829258	6033127	XLOC_037471	NC_010460.4	6017053	6022069
						LOC102160938
						.
NC_010460.4	5829258	6033127	XLOC_037471	NC_010460.4	5899566	5928981
						NUB1
						.
NC_010460.4	5829258	6033127	XLOC_037471	NC_010460.4	5958466	5989120
						SMARCD3
						.
NC_010460.4	5829258	6033127	XLOC_037471	NC_010460.4	5995018	6016915
						ABCF2
						.
NC_010460.4	5829258	6033127	XLOC_037471	NC_010460.4	5853099	5900824
						WDR86
						.
NC_010460.4	5829258	6033127	XLOC_037471	NC_010460.4	6024280	6037824
						IQCA1L
						.
NC_010460.4	6620043	6823735	XLOC_037489	NC_010460.4	6688562	6691600
						LOC110257613
						.
						-

NC_010460.4 6620043 6823735 XLOC_037489 NC_010460.4 6757179 6758503 LOC110257586
 . +
 NC_010460.4 6620043 6823735 XLOC_037489 NC_010460.4 6758505 6760078 LOC110257587
 . +
 NC_010460.4 6620043 6823735 XLOC_037489 NC_010460.4 6780212 6781731 TAS2R41 .
 -
 NC_010460.4 6620043 6823735 XLOC_037489 NC_010460.4 6806911 6808689 TAS2R60 .
 -
 NC_010460.4 6620043 6823735 XLOC_037489 NC_010460.4 6567300 6621707 LOC100519808
 . +
 NC_010460.4 6620043 6823735 XLOC_037489 NC_010460.4 6632982 6719077 LOC110257570
 . +
 NC_010460.4 14744706 14945683 XLOC_037550 NC_010460.4 14880322 14916406
 SLC35B4 . +
 NC_010460.4 14744706 14945683 XLOC_037550 NC_010460.4 14593516 14752316
 AKR1B1 . +
 NC_010460.4 42127776 42335410 XLOC_037663 NC_010460.4 42213335 42218175
 INMT . +
 NC_010460.4 42127776 42335410 XLOC_037663 NC_010460.4 42096351 42202511
 MINDY4 . -
 NC_010460.4 42127776 42335410 XLOC_037663 NC_010460.4 42251755 42296457
 CRHR2 . +
 NC_010460.4 42127776 42335410 XLOC_037663 NC_010460.4 42311711 42352201
 GARS . -
 NC_010460.4 42259513 42460757 XLOC_037665 NC_010460.4 42251755 42296457
 CRHR2 . +
 NC_010460.4 42259513 42460757 XLOC_037665 NC_010460.4 42410734 42418534
 GGCT . +
 NC_010460.4 42259513 42460757 XLOC_037665 NC_010460.4 42311711 42352201
 GARS . -
 NC_010460.4 51839074 52049815 XLOC_037739 NC_010460.4 51909399 51919859
 PSMA2 . +
 NC_010460.4 51839074 52049815 XLOC_037739 NC_010460.4 51924285 51928154
 C18H7orf25 . +
 NC_010460.4 51839074 52049815 XLOC_037739 NC_010460.4 51865077 51909291
 MRPL32 . -
 NC_010460.4 16265760 16469419 XLOC_037904 NC_010460.4 16052611 16348998
 CHCHD3 . +
 NC_010460.4 17958597 18166197 XLOC_037912 NC_010460.4 18147124 18149177
 KLF14 . +
 NC_010460.4 48718763 48925610 XLOC_038063 NC_010460.4 48713335 48725692
 DBNL . -
 NC_010460.4 48718763 48925610 XLOC_038063 NC_010460.4 48735258 48756314
 UBE2D4 . -

NC_010460.4 48718763	48925610	XL0C_038063 NC_010460.4 48780521	48817058
LOC100525140 .	+		
NC_010460.4 48718763	48925610	XL0C_038063 NC_010460.4 48825747	48872294
MRPS24 .	+		
NC_010460.4 53463598	53694346	XL0C_038094 NC_010460.4 53639588	54283272
SUGCT .	-		
NC_010460.4 53494650	53702152	XL0C_038095 NC_010460.4 53639588	54283272
SUGCT .	-		
NC_010460.4 55375417	55578101	XL0C_038103 NC_010460.4 55495145	55521307
ZNF282 .	+		
NC_010460.4 55375417	55578101	XL0C_038103 NC_010460.4 55528144	55541859
ZNF212 .	+		
NC_010460.4 55375417	55578101	XL0C_038103 NC_010460.4 55544875	55561018
ZNF783 .	+		
NC_010460.4 55375417	55578101	XL0C_038103 NC_010460.4 55293655	55466628
VPS41 .	+		
NC_010461.5 20063673	20268665	XL0C_038467 NC_010461.5 20088208	20130452
KLHL15 .	-		
NC_010461.5 20063673	20268665	XL0C_038467 NC_010461.5 20129708	20162881
EIF2S3 .	+		
NC_010461.5 20063673	20268665	XL0C_038467 NC_010461.5 20220812	20273689
ZFX .	+		
NC_010461.5 20644203	20851627	XL0C_038474 NC_010461.5 20654157	20659555
LOC102167889 .	+		
NC_010461.5 20644203	20851627	XL0C_038474 NC_010461.5 20605769	20743081
PCYT1B .	-		
NC_010461.5 20644203	20851627	XL0C_038474 NC_010461.5 20756674	21064265
POLA1 .	+		
NC_010461.5 35809583	36015213	XL0C_038534 NC_010461.5 35880111	35904287
LOC106506945 .	+		
NC_010461.5 35809583	36015213	XL0C_038534 NC_010461.5 35768013	35891013
BCOR .	-		
NC_010461.5 43675772	43877676	XL0C_038604 NC_010461.5 43779016	43809472
CLCN5 .	+		
NC_010461.5 47511933	47713069	XL0C_038625 NC_010461.5 47552766	47561116
LOC106506966 .	-		
NC_010461.5 47511933	47713069	XL0C_038625 NC_010461.5 47537909	47584419
ITIH6 .	-		
NC_010461.5 83138572	83339889	XL0C_038766 NC_010461.5 83159108	83160331
LOC100621834 .	+		
NC_010461.5 83138572	83339889	XL0C_038766 NC_010461.5 83187939	83192693
ARMCX3 .	+		
NC_010461.5 83138572	83339889	XL0C_038766 NC_010461.5 83179741	83182711
LOC100520992 .	-		

NC_010461.5 83138572	83339889	XLOC_038766 NC_010461.5 83213939	83218601
ARMCX2 . -			
NC_010461.5 83138572	83339889	XLOC_038766 NC_010461.5 83338757	83361973
LOC100153087 . -			
NC_010461.5 89623178	89835375	XLOC_038804 NC_010461.5 89741187	89742732
KCNE5 . -			
NC_010461.5 89623178	89835375	XLOC_038804 NC_010461.5 89684733	89691808
NXT2 . +			
NC_010461.5 89623178	89835375	XLOC_038804 NC_010461.5 89557952	89653491
GUCY2F . -			
NC_010461.5 89623178	89835375	XLOC_038804 NC_010461.5 89760863	89838103
ACSL4 . -			
NC_010461.5 97286634	97490650	XLOC_038833 NC_010461.5 97379908	97384384
ZCCHC12 . +			
NC_010461.5 97286634	97490650	XLOC_038833 NC_010461.5 97300960	97353754
IL13RA1 . +			
NC_010461.5 106791217	106999035	XLOC_038874 NC_010461.5 106735129	
106795789 ZNF280C . -			
NC_010461.5 106791217	106999035	XLOC_038874 NC_010461.5 106828695	
106859128 SLC25A14 . +			
NC_010461.5 106791217	106999035	XLOC_038874 NC_010461.5 106872225	
106873299 GPR119 . -			
NC_010461.5 106791217	106999035	XLOC_038874 NC_010461.5 106880912	
106890391 RBMX2 . +			
NC_010461.5 106791217	106999035	XLOC_038874 NC_010461.5 106902342	
106978056 LOC100626097 . -			
NC_010461.5 110298630	110500775	XLOC_038891 NC_010461.5 110249010	
110311503 PHF6 . +			
NC_010461.5 110298630	110500775	XLOC_038891 NC_010461.5 110321144	
110357902 HPRT1 . +			
NC_010461.5 110298630	110500775	XLOC_038891 NC_010461.5 110403257	
110592117 PLAC1 . -			
NC_010461.5 112524814	112726903	XLOC_038917 NC_010461.5 112592951	
112605087 ZIC3 . +			
NC_010461.5 122001433	122205971	XLOC_038943 NC_010461.5 122120275	
122233692 MAMLD1 . +			
NC_010461.5 16143847	16346204	XLOC_039071 NC_010461.5 15887131	16229212
SH3KBP1 . -			
NC_010461.5 16143847	16346204	XLOC_039071 NC_010461.5 16252407	16312426
CXHXorf23 . -			
NC_010461.5 16143847	16346204	XLOC_039071 NC_010461.5 16327718	16423546
MAP7D2 . -			
NC_010461.5 16149466	16350915	XLOC_039072 NC_010461.5 15887131	16229212
SH3KBP1 . -			

NC_010461.5 16149466	16350915	XL0C_039072 NC_010461.5 16252407	16312426
CXHXorf23 . -			
NC_010461.5 16149466	16350915	XL0C_039072 NC_010461.5 16327718	16423546
MAP7D2 . -			
NC_010461.5 45702573	45912883	XL0C_039194 NC_010461.5 45909688	45916859
TSPYL2 . +			
NC_010461.5 45702573	45912883	XL0C_039194 NC_010461.5 45883738	45908197
GPR173 . +			
NC_010461.5 49348250	49590730	XL0C_039223 NC_010461.5 49351952	49356901
SPIN3 . -			
NC_010461.5 49348250	49590730	XL0C_039223 NC_010461.5 49492205	49507749
LOC100526148 . -			
NC_010461.5 49348250	49590730	XL0C_039223 NC_010461.5 49494288	49506510
SPIN2B . -			
NC_010461.5 59177354	59409233	XL0C_039271 NC_010461.5 59176650	59230332
CHIC1 . +			
NC_010461.5 61450597	61651409	XL0C_039283 NC_010461.5 61551487	61561807
FGF16 . +			
NC_010461.5 61450597	61651409	XL0C_039283 NC_010461.5 61584028	61872341
ATRX . -			
NC_010461.5 121760715	121969468	XL0C_039515 NC_010461.5 121769595	
121777428 LOC100515119 . -			
NC_010461.5 121760715	121969468	XL0C_039515 NC_010461.5 121776859	
121800481 LOC106506163 . +			
NC_010461.5 121760715	121969468	XL0C_039515 NC_010461.5 121763484	
121765954 LOC106504240 . -			
NC_010461.5 124849403	125052456	XL0C_039553 NC_010461.5 124883047	
124885429 EMD . -			
NC_010461.5 124849403	125052456	XL0C_039553 NC_010461.5 124931410	
124937569 DNASE1L1 . -			
NC_010461.5 124849403	125052456	XL0C_039553 NC_010461.5 124952532	
124960344 ATP6AP1 . +			
NC_010461.5 124849403	125052456	XL0C_039553 NC_010461.5 124960835	
124966833 GDI1 . +			
NC_010461.5 124849403	125052456	XL0C_039553 NC_010461.5 124967821	
124973487 FAM50A . +			
NC_010461.5 124849403	125052456	XL0C_039553 NC_010461.5 125001673	
125003206 LAGE3 . -			
NC_010461.5 124849403	125052456	XL0C_039553 NC_010461.5 125007121	
125009657 UBL4A . -			
NC_010461.5 124849403	125052456	XL0C_039553 NC_010461.5 125010128	
125013992 SLC10A3 . -			
NC_010461.5 124849403	125052456	XL0C_039553 NC_010461.5 125015985	
125025119 FAM3A . -			

NC_010461.5	124849403	125052456	XLOC_039553	NC_010461.5	125029147
125041040	G6PD	.	-		
NC_010461.5	124849403	125052456	XLOC_039553	NC_010461.5	124840072
124867313	TKTL1	.	+		
NC_010461.5	124849403	125052456	XLOC_039553	NC_010461.5	124870296
124881007	LOC110257704	.	+		
NC_010461.5	124849403	125052456	XLOC_039553	NC_010461.5	124927249
124929791	RPL10	.	+		
NC_010461.5	124849403	125052456	XLOC_039553	NC_010461.5	124940036
124946275	TAZ	.	+		
NC_010461.5	124849403	125052456	XLOC_039553	NC_010461.5	124982307
124997098	PLXNA3	.	+		
NC_010461.5	124849403	125052456	XLOC_039553	NC_010461.5	124889934
124915000	FLNA	.	+		
NC_010461.5	124849403	125052456	XLOC_039553	NC_010461.5	125035575
125056445	IKBKG	.	+		
NW_018084804.1	70483	275408	XLOC_040241	NW_018084804.1	71124 72614
LOC110257999	.	+			
NW_018084804.1	70483	275408	XLOC_040241	NW_018084804.1	91143 104792
ZNF311	.	+			
NW_018084804.1	70483	275408	XLOC_040241	NW_018084804.1	139269 157847
TRIM27	.	+			
NW_018084833.1	1808210	2010490	XLOC_040413	NW_018084833.1	1824608 1829213
SOHLH1	.	+			
NW_018084833.1	1808210	2010490	XLOC_040413	NW_018084833.1	1851984 1855157 LCN9
.	-				
NW_018084833.1	1808210	2010490	XLOC_040413	NW_018084833.1	1874757 1878830
LOC102160290	.	-			
NW_018084833.1	1808210	2010490	XLOC_040413	NW_018084833.1	1912609 1915701
MRPS2	.	-			
NW_018084833.1	1808210	2010490	XLOC_040413	NW_018084833.1	1760421 1822174
KCNT1	.	-			
NW_018084833.1	1808210	2010490	XLOC_040413	NW_018084833.1	1861791 1874707
GLT6D1	.	+			
NW_018084833.1	1808210	2010490	XLOC_040413	NW_018084833.1	1882317 1886509 PAEP
.	-				
NW_018084833.1	1808210	2010490	XLOC_040413	NW_018084833.1	1915766 1921176
CUNH9orf116	.	+			
NW_018084833.1	1808210	2010490	XLOC_040413	NW_018084833.1	1926427 1934118
PPP1R26	.	-			
NW_018084857.1	0	108545	XLOC_040494	NW_018084857.1	50758 59174
LOC110258134	.	+			
NW_018084869.1	0	140369	XLOC_040510	NW_018084869.1	18383 25797
LOC100513119	.	-			

NW_018084901.1	97567	299327	XLOC_040603	NW_018084901.1	90843	172647	
PPP2R3B .	-						
NW_018084979.1	1755650	1963773	XLOC_040865	NW_018084979.1	1765150	1769916	
LOC110258367 .	+						
NW_018084979.1	1755650	1963773	XLOC_040865	NW_018084979.1	1781818	1795956	
EXOC3L4 .	+						
NW_018084979.1	1755650	1963773	XLOC_040865	NW_018084979.1	1806185	1819672	
TNFAIP2 .	+						
NW_018084979.1	1755650	1963773	XLOC_040865	NW_018084979.1	1900333	1911880	EIF5
. .	+						
NW_018084979.1	1755650	1963773	XLOC_040865	NW_018084979.1	1942556	2055058	
MARK3 .	+						
NW_018084979.1	2520368	2733993	XLOC_040877	NW_018084979.1	2502407	2524412	ASPG
. .	+						
NW_018084979.1	2520368	2733993	XLOC_040877	NW_018084979.1	2542514	2581004	
KIF26A .	+						
NW_018084979.1	391906	603109	XLOC_040898	NW_018084979.1	504081	506187	DI03
. .	+						
NW_018084979.1	1739628	1945722	XLOC_040912	NW_018084979.1	1765150	1769916	
LOC110258367 .	+						
NW_018084979.1	1739628	1945722	XLOC_040912	NW_018084979.1	1781818	1795956	
EXOC3L4 .	+						
NW_018084979.1	1739628	1945722	XLOC_040912	NW_018084979.1	1806185	1819672	
TNFAIP2 .	+						
NW_018084979.1	1739628	1945722	XLOC_040912	NW_018084979.1	1900333	1911880	EIF5
. .	+						
NW_018084979.1	1739628	1945722	XLOC_040912	NW_018084979.1	1650031	1752121	
CDC42BPB .	-						
NW_018084979.1	1739628	1945722	XLOC_040912	NW_018084979.1	1942556	2055058	
MARK3 .	+						