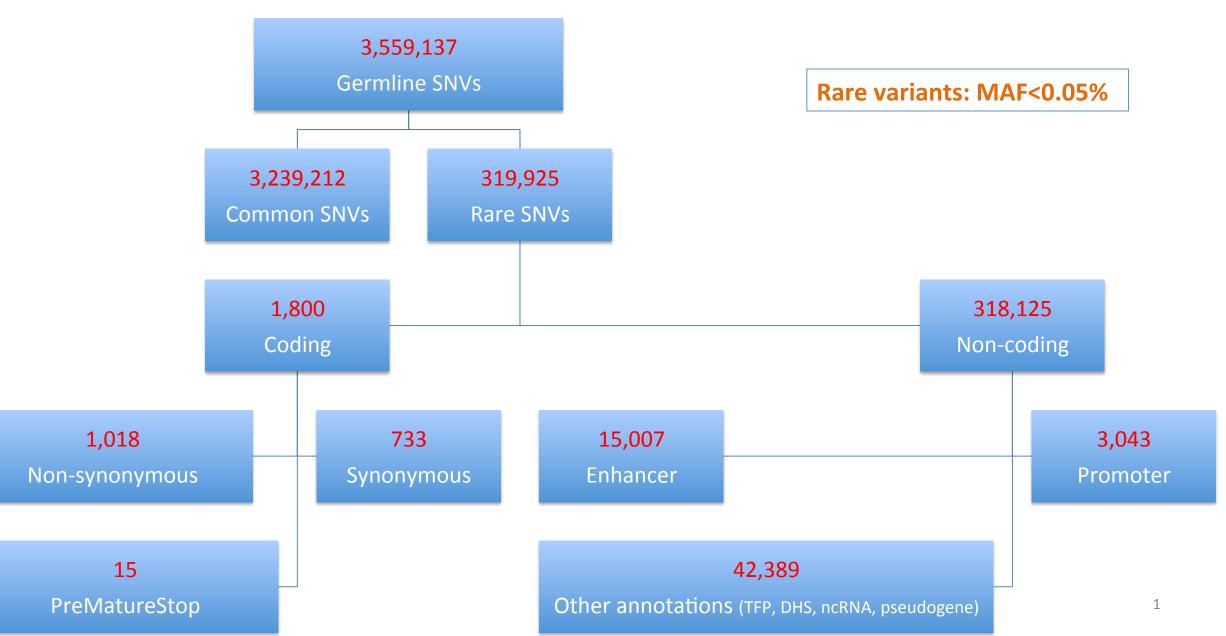
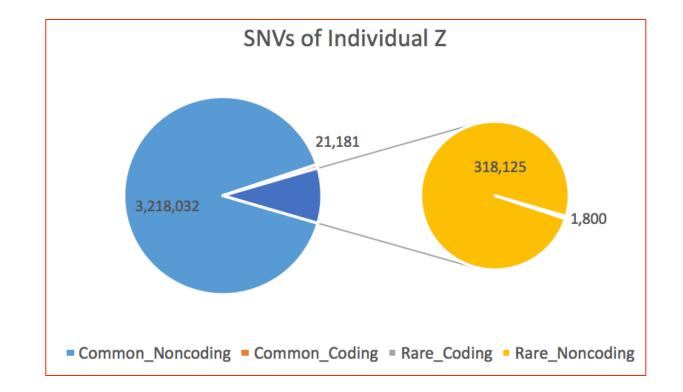
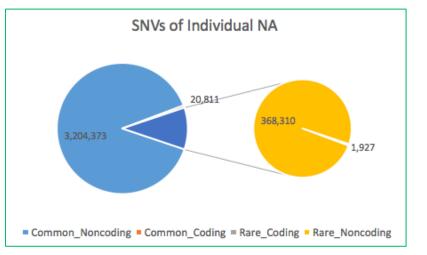
Individual Z Overview



Overview



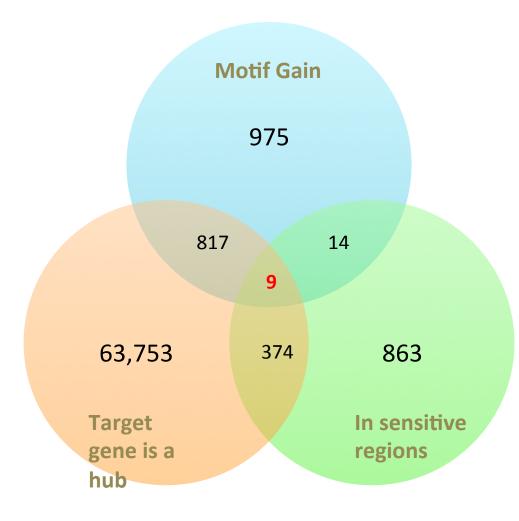
SNVs of Individual S



Annotations for rare noncoding vairants

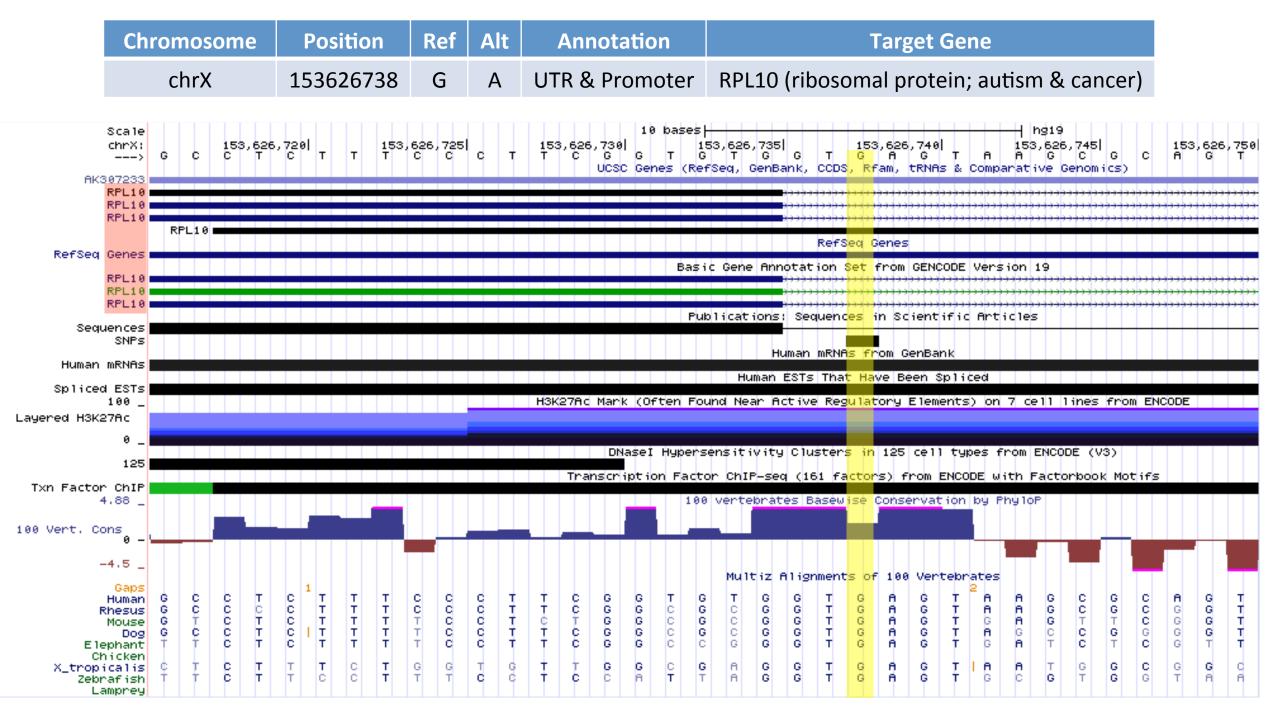
	Subject Z	Subject S	Subject N
Promoter	3,043	2,473	3,038
Enhancer	15,007	14,186	15,190
Other noncoding annotation*	42,389	40,048	44,510
* TFP, DHS, ncRNA, pseudogene			

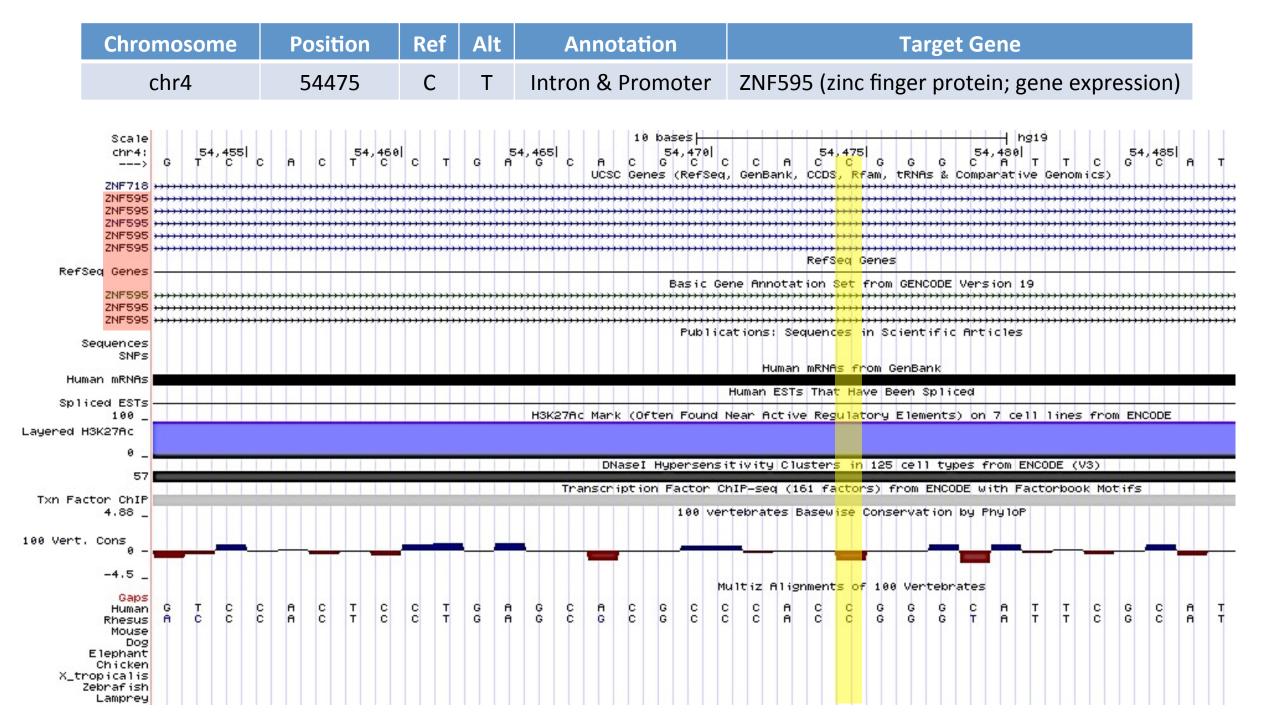
Annotation of Rare Noncoding Variants



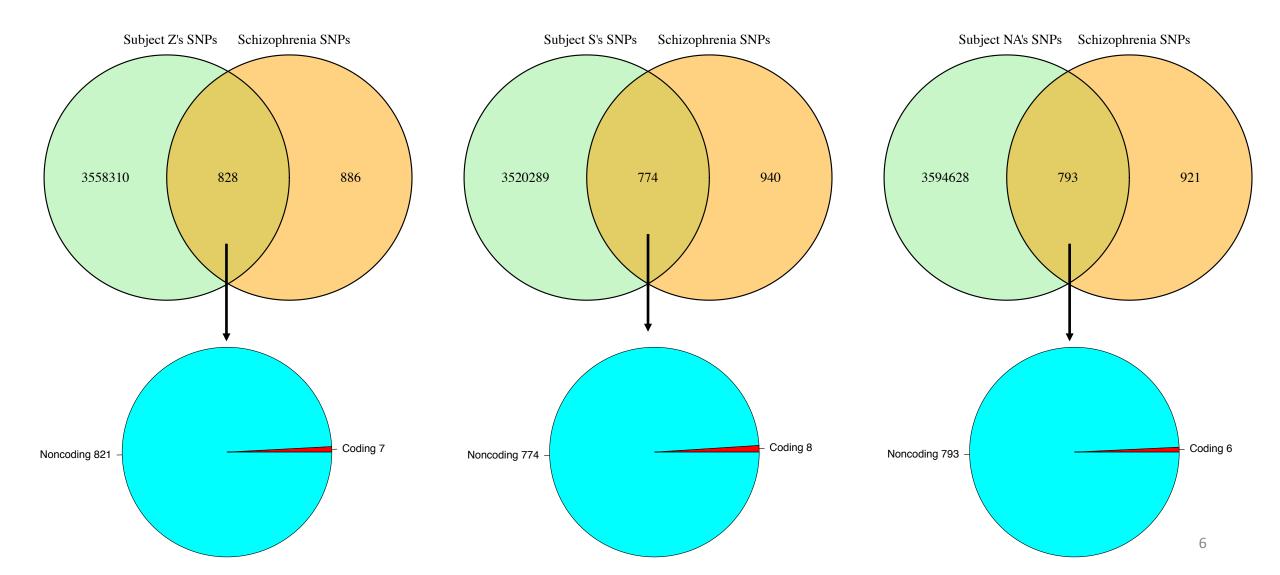
• 9 variants -> 11 target genes

Gene Name	Variant Location	Function Annotation
RPL10	(Promoter&UTR)	[cancer]
PDE4DIP	(Distal&Intron)	[cancer]
ZNF595	(Intron&Promoter)	
GADD45G	(Promoter)	[DNA_repair]
CCND2	(Distal)	[actionable][cancer]
ACAP3	(Intron)	
VANGL2	(Promoter)	
SEC22B	(Distal)	
RNU1-9	(Distal)	
PARP11	(Distal)	
PUSL1	(Promoter)	

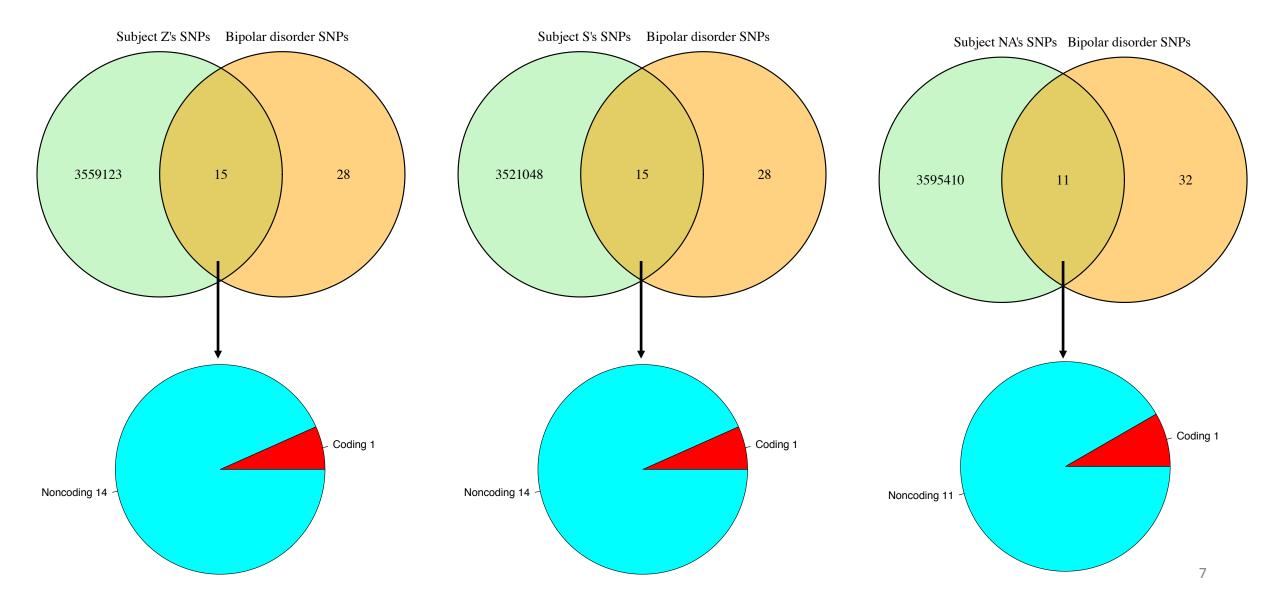




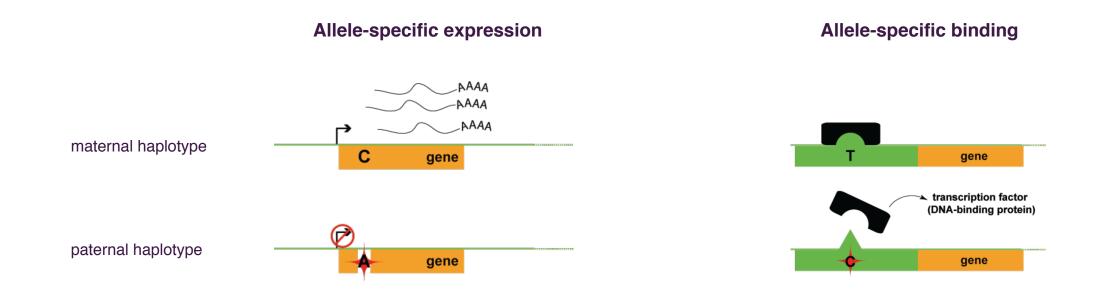
Overlap with 1714 Schizophrenia SNPs



Overlap with 43 Bipolar disorder SNPs



Subject Z's SNVs associated with allele-specific expression (ASE) and binding (ASB)



- Subject Z has 2,081,803 heterozygous SNVs
- 40,267 and 19,687 of them were found in AlleleDB, assessed for ASE and ASB, respectively
- 8,680 (ASE) and 734 (ASB) SNVs show some evidence for allele-specific behavior: allele-specific in at least one of the 380 AlleleDB individuals
- 173 of SNVs show consistent association with ASE across AlleleDB individuals: present in more than 100 individuals and found to be allele-specific in more than 95% of them

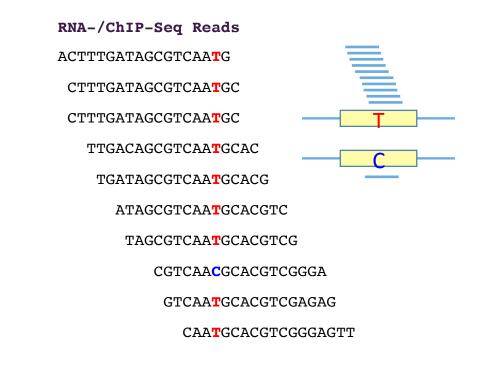


Subject Z's SNVs associated with allele-specific expression (ASE) and binding (ASB)

Expression/binding balanced between alleles

RNA-/ChIP-Seq Reads	
ACTTTGATAGCGTCAA <mark>C</mark> G	
CTTTGATAGCGTCAA <mark>C</mark> GC	
CTTTGATAGCGTCAA <mark>C</mark> GC	T
TTGACAGCGTCAA T GCAC	C
TGATAGCGTCAA T GCACG	
ATAGCGTCAACGCACGTC	
TAGCGTCAA <mark>T</mark> GCACGTCG	
CGTCAACGCACGTCGGGA	
GTCAA T GCACGTCGAGAG	
CAA T GCACGTCGGGAGTT	

Allele-specific expression/binding



- Subject Z has **2,081,803** heterozygous SNVs
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