Col	ID	annotation
4	Chromosom	Chromosome containing the variant in "chr#" format where # is 1 -
1	е	22 or X or Y.
2	Begin	Physical start position of the variant. 0-based coordinates.
		Coordinates correspond to hg19.
3	End	Physical end position of the variant. 0-based coordinates.
	2774	Coordinates correspond to hg19.
4	VarType	Variant type ('loss' and 'gain').
5	CNV	Copy number (0:two copy loss, 1: one copy loss, 3:one copy gain,
	0,,,,	etc).
		The transcript(s) nearest to the variant by physical distance. Gene
6	_	models are derived from the UCSC genome browser known genes
	Gene	track (Meyer et al. 2012). HUGO gene symbol is provided for each
		gene followed by the UCSC transcript ID in parenthesis. Format:
		Gene_Symbol(UCSC_transcript_ID)
7	Gene_Type	The transcript type. Possible values are "Protein_Coding" or
		"Noncoding_RNA."
		Location of the variant relative to the nearest transcript(s). Exons
		and introns are numbered in the direction of the reading frame.
	Location	Multiple nucleotide substitutions may span multiple locations (e.g.
8		Exon_6-Intron_6). Potential values are "Upstream", "Downstream",
		"5UTR" (5' untranslated region), "3UTR" (3' untranslated region),
		Exon_# (where # is the coding exon number), Intron_# (includes
		introns flanking coding and non-coding exons), and noncoding_rna for variants landing in non-intronic noncoding RNA sites.
		Tor variables randing in non-introduct noncoding KNA sites.
		The impact of a variant on a protein coding transcript(s).
		Multiple transcripts are delimited by "///". It is possible for
		transcripts with the same gene symbol to receive different
		values. Potential values include:
	Coding_Imp	
9	act	Frameshift: applies to deletions completely within a gene body
		Partial_Deletion: deletion overlapping either end of a gene
		Amplified: complete coding region amplification
		Partial_Amplification: amplification overlapping either end of a gene
		Deleted: complete coding region deletion
		Out_of_Frame: applies to insertions completely within a gene body.
	Known_Gai	Overlap of CNV with region known to result in pathogenic syndrome
10	n_Syndrom	due to chromosomal gain. Format syndrome_name
	e e	~ %_of_reference_region_contained_in_overlap
		~ %_of_CNV_contained_in_overlap ~ allele_frequency.
11	Known_Los	Overlap of CNV with region known to result in pathogenic syndrome
	s_Syndrome	due to chromosomal loss. Format syndrome_name

		9/ of reference region contained in everlan
		~ %_of_reference_region_contained_in_overlap
		~ %_of_CNV_contained_in_overlap ~ allele_frequency.
12	ClimVar Cai	Overlap of CNV with gain region annotated in Clinvar. Format
	ClinVar_Gai	Disease_Name ~ %_of_reference_region_contained_in_overlap
	n	~ %_of_CNV_contained_in_overlap ~ Pathogenicity ~ Evidence ~
		Accession.
		Overlap of CNV with loss region annotated in Clinvar. Format
13	ClinVar_Los	Disease_Name ~ %_of_reference_region_contained_in_overlap
	S	~ %_of_CNV_contained_in_overlap ~ Pathogenicity ~ Evidence ~
		Accession.
	,	Overlap of CNV with gain region annotated in 1000 genomes.
14	1000genom	Format ID ~ percOverlapIn1000genomes ~
	es_Gain	percOverlapInAnnotatedCNV ~ Aggregate_AF ~ AFR_AF ~
		AMR_AF ~ ASN_AF ~ EUR_AF.
		Overlap of CNV with loss region annotated in 1000 genomes.
15	1000genom	Format ID ~ percOverlapIn1000genomes ~
	es_Loss	percOverlapInAnnotatedCNV ~ Aggregate_AF ~ AFR_AF ~
		AMR_AF ~ ASN_AF ~ EUR_AF.
		List of microRNAs whose non-coding pre-miRNA reading frame
		within the genome houses the variant. Multiple microRNAs are
16	miRNA_gen	separated by '///'. Note the different microRNAs listed here have no
	omic	assumed relationship with the nearest gene nor does the order of
		presentation have any bearing on the order of presentation of the
		nearest transcript.
	omimGene_I	
17	D~omimGen	OMIM gene ID and associated phenotype if any (McKusick 1998).
	e_associatio	Presented as OMIM_ID~Phenotype. Transcripts delimited by "///".
	n	
	HGMD_Gen	List of phenotype associated in HGMD with the gene(s) nearest to
18	e~disease_a	the variant. Different phenotypes for the same transcript delimited by
	ssociation	"\$", transcripts delimited by "///".
	COSMIC_Ge	Number of times the gene(s) impacted by the variant have been
19	ne~NumSa	observed mutated in cancer samples. Transcript specific. Format:
	mples	cancer_type~number_of_observations. Multiple tumor types
		separated by "\$". Transcripts separated by "///".
		Determination as to whether the impacted gene(s) are considered
20	MSKCC_Ca	cancer genes as catalogued by the Memorial Sloan Kettering
	ncerGenes	Cancer Center (Higgins et al 2007). Potential values: Tumor
		Suppressor or Oncogene.
21	Atlas_Oncol	Determination as to whether the impacted gene(s) are considered
	ogy	cancer genes as catalogued by <u>Atlas Oncology</u> .
	Sanger_net	Significant cancer genes imputed by network connectivity to known cancer
22	work-	genes. Manuscript under preparation. Format: gene_name~p-value.
	informed_C	

	ancerGenes	
	~Pval	
23	Mitelman_D	Mitelman Database of Chromosome Aberrations and Gene Fusions
	atabase	in Cancer. Format: gene_name~Pubmed ID(s).
	DrugBank	DrugBank ID (Wishart et al. 2006) of compounds known to target the
24		impacted gene(s).
25	ADVISER_S	
	core~Diseas	Modified American College of Medical Genetics summary
		categorization for variants residing in genes previously causally
	e_Entry~Ex	associated with disease. See ADVISER Scoring for details.
	planation	

ADVISER Scoring Table

Category 1: sequence variation is previously reported and is a recognized cause of the disorder

- Sequence variant is reported in the literature as causal to disease
- Variant is rare

Category 2: sequence variation is previously unreported and is of the type that is expected to cause the disorder

- Variant is rare
- Variant is predicted to damage protein function with high confidence

Category 3: sequence variation is previously unreported and is of the type which may or may not be causative of the disorder

- Variant is rare
- Variant is predicted to damage protein function with moderate confidence OR
- Variant is uncommon
- Variant is predicted to damage protein function with high confidence

Category 4: sequence variation is previously unreported and is probably not causative of disease

- Variant is rare
- Variant is predicted to damage protein function with low confidence
- Variant is predicted to damage regulatory function with high confidence OR
- Variant is uncommon
- Variant is predicted to damage protein function with moderate confidence

Category 5: sequence variation is previously reported and is a recognized neutral variant

- Variant is uncommon
- Variant is not predicted to damage protein function OR
- Variant is common

If none of the above are met, "-~--" is reported in the ADVISER score column.