Supplementary Table S1. Output and transitional tables columns description. All columns are listed in an alphabetical order. Related to Steps 1-5 and Expected outcomes.

Column name	Column description	Possible values
alg	algorithm used for detection of	e.g.: mutect2, somatic sniper
	mutations	
alt	alternative allele	e.g.: G, A, GAA
arm	in which part of miRNA precursor	5p, loop, 3p
	mutation is located	
balance	arm from which the main miRNA is	5p, 3p, both, undefined
	generated; defined based on deep	
	sequencing reeds (miRBase), [for details	
1 1 1	see (Urbanek-Trzeciak et al., 2020)]	
based_on_coordinates	indicates whether used coordinates were	yes, no
	defined based on miRBase annotations	
	or were predicted based on miRNA	
	structure	0
BQ_alt_norm	BQ metric from VCF file for alternative	e.g.: 0
	allele in normal sample	
BQ_alt_tum	BQ metric from VCF file for alternative	e.g.: 32
PO rof norm	PO matria from VCE file for reference	2 2 : 20
DQ_Iel_II0IIII	allele in normal sample	e.g 50
BO ref tum	BO metric from VCE file for reference	e g : 31
DQ_ICI_tuin	allele in tumor sample	0.2 51
chrom	chromosome	e.g.: chr1. chrX
complex	if mutations are complex (multiple	0 (no), 1 (yes)
	mutations in single miRNA gene in	
	single sample)	
confidence	as high-confidence miRNA genes, we	High, Low
	considered genes coding for miRNA	
	precursors annotated as "high	
	confidence" in miRBase and/or	
	deposited in MiRGeneDB v2.0	
cut_region	whether the mutation is within Drosha	0 (no), 1 (yes)
	or Dicer cut region	
duplex	whether the mutation is within duplex	0 (no), 1 (yes)
eval	if filtering is performed it indicates if a	True, False
	mutation passed the filtering	
filename	path to analysed VCF file	e.g.:
		/home/Documents/0001.vcf.gz
filter	filter column from VCF file	e.g.: PASS
format	format column from VCF file	e.g.: GT:AD:BQ:DP:SS
from_start	nucleotide position from start of miRNA	e.g.: 1, 3
	region in which mutation is located	
	(e.g., within seed, 5' flanking sequence)	

from_end	nucleotide position from end of miRNA	e.g.: -1, -25
	region in which mutation is located	
	(e.g., within seed, 5' flanking sequence)	
hgvs	noncoding HGVS nomenclature of the	e.g.: n.90G>A, n.67+21G>A,
	mutation in the reference to the	n.1-15delA
	miRBase coordinates	
	*Note that annotation of some indels	
	may not match the latest HGVS	
	recommendations; for multimutations	
	(multiple changes in a single position in	
	one sample) HGVS nomenclature is not	
-	available	
hgvs_g	genomic HGVS nomenclature of the	e.g.:
	mutation; for multimutations HGVS is	NC_000010.11:g.17845137C>A,
	not available	NC_000001.11:g.1167872_11678
		73ins1
if_complex	if there was any complex mutations in	0 (no), 1 (yes)
	the gene	
ID	miRBase ID	e.g.: MI0000737
indiv_ID	identifier of the sample	e.g.: 001
indiv_name	sample identifier	e.g.: sample01
indiv_name_count	how many mutations were found in a	e.g.: 1
	position (or in a indicated gene)	
indiv_name_nunique	how many samples had specific	e.g.: 1
	mutation (or mutation in a indicated	
	gene)	
info	into column from VCF file	e.g.:
		ACGINacgtnMINUS=0,0,23,1,0
' 11 ID		,0,0,11,4,0
mirgenedb_ID		e.g.: Hsa-Mir-8-Pla_pre
motifs	whether any motif was disturbed as a	0 (no), 1 (yes)
matifa ()	result of the mutation	lass
motifs_{ }	information for each checked motif if	-, IOSS
	there was loss of a motil as a result of	
mutation type	mutation type: substitution incontion	substing dal indal
mutation_type	delation insertion delation	subst, ins, del, indel,
	multimutation	munmutation
name	miRNA ragion name built by pre	e g : hea mir 200a flanking 5
name	miRNA name and precursor region	hsa-mir-511 post-seed
	connected by an underscore	nsa-nni-511_post-seed
no of loc	internal check column	1
norm alt count	count of reads supporting alternative	e g : 0
norm_ait_count	allele in normal sample	c.g 0
norm ref count	count of reads supporting reference	e.g.: 20
norm_ror_count	allele in normal sample	
normal	normal column from VCF file in a	e.g.: 0/0.53 0.34 0.53
	structure as format column dictates	

orientation	miRNA gene orientation	"+"
pos	genomic position of the mutation	e.g.: 1167859, 20633667
pos count	number of mutations in a miRNA gene	e.g.: 3
pos_nunique	number of unique mutated positions in a miRNA gene	e.g.: 1
pre_name	precursor name	e.g.: hsa-mir-200a, hsa-mir-6084
QSS_alt_nor	quality score for alternative allele for normal sample	e.g.: 0
QSS_alt_tum	quality score for alternative allele for tumor sample	e.g.: 99
QSS_ref_nor	quality score for reference allele for normal sample	e.g.: 3001
QSS_ref_tum	quality score for reference allele for tumor sample	e.g.: 1650
qual	qual column from VCF file	e.g.: .
ref	reference allele	e.g.: C, GCA
sample_ID_normal_ali Q	ID of aliquote of normal sample from VCF file	e.g.: 534gjhg345-sdfv689
sample_ID_normal_na me	name of normal sample from VCF file	e.g.: TCGA-66678-asasd
sample_ID_tumor_ali Q	ID of aliquote of tumor sample from VCF file	e.g.: skdjf879xc-xcv6s8df
sample_ID_tumor_na me	name of tumor sample from VCF file	e.g.: TCGA-2934592-msandf8
seed	whether mutation is located within seed	0 (no), 1 (yes)
SPV	somatic P-value for somatic/LOH events (Varscan)	e.g.: 0.0187
SSC	somatic score from Somatic Sniper	e.g.: 123
start	miRNA region start coordinate	e.g.: 1167853, 20633667
start_pre_build	miRBase start coordinate	e.g.: 1167863, 20633679
stop	miRNA region stop coordinate	e.g.: 1167877, 20633691
stop_pre_build	miRBase stop coordinate	e.g.: 1167952, 20633788
tumor	tumor column from VCF file in a structure as format column dictates	e.g.: 0/1:26,38:35,34:64:2
tumor_alt_count	count of reads supporting alternative allele in tumor sample	e.g.: 25
tumor_ref_count	count of reads supporting reference allele in tumor sample	e.g.: 21
type	region of miRNA precursor	flanking-5, pre-seed, seed, post- seed, loop, flanking-3
type_of_file	algorithm used to create VCF file	e.g.: somaticsniper, varscan2
type_of_subst	substitution type, n.a. for non- substitution mutations	transition, transversion, n.a.
weight	weight score	1, 1.5, 2