

2M512-1-4044 Sample 1 Sample Name

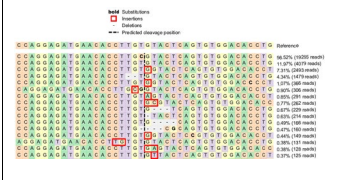


Table with columns: Accession, % identity, % coverage, % of reads, % of reads, % of reads. Lists various reference sequences and their alignment statistics.

Summary table for sample 2M512-1-4044 with columns: Accession, % identity, % coverage, % of reads, % of reads, % of reads.

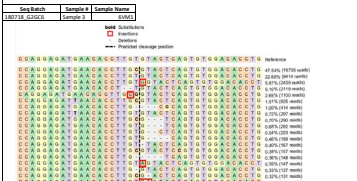
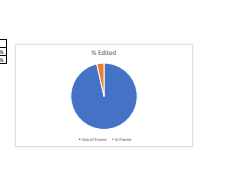


Table with columns: Accession, % identity, % coverage, % of reads, % of reads, % of reads.

Summary table for sample 2M512-1-4044 (Sample 2).

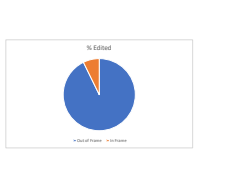


Table with columns: Accession, % identity, % coverage, % of reads, % of reads, % of reads.

Summary table for sample 2M512-1-4044 (Sample 3).

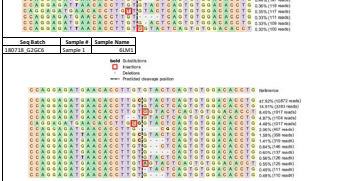
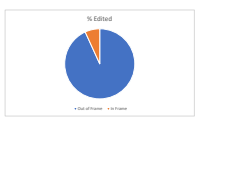


Table with columns: Accession, % identity, % coverage, % of reads, % of reads, % of reads.

Summary table for sample 2M512-1-4044 (Sample 4).

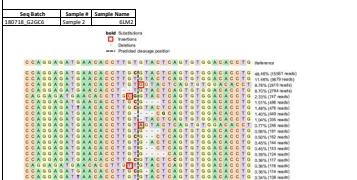
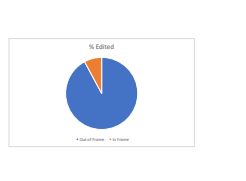
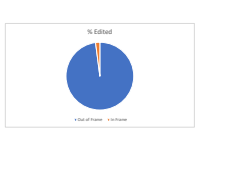


Table with columns: Accession, % identity, % coverage, % of reads, % of reads, % of reads.

Summary table for sample 2M512-1-4044 (Sample 5).



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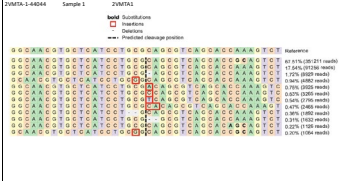


Table with columns: Accession, % identity, % coverage, % of reads, % of reads, % of reads.

Summary table for sample 2M512-1-4044 (Sample 1).

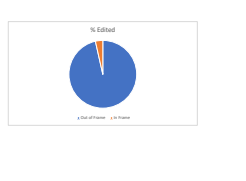
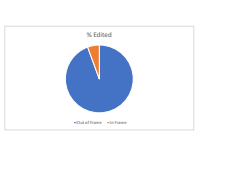


Table with columns: Accession, % identity, % coverage, % of reads, % of reads, % of reads.

Summary table for sample 2M512-1-4044 (Sample 2).



2M512-1-4044 Sample 1 Sample Name

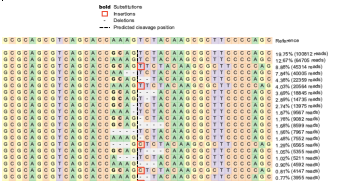


Table with columns: Accession, % identity, % coverage, % of reads, % of reads, % of reads.

Summary table for sample 2M512-1-4044 (Sample 1).

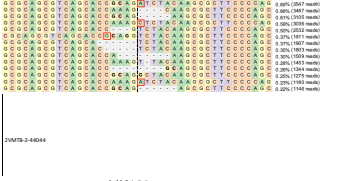
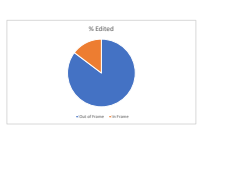
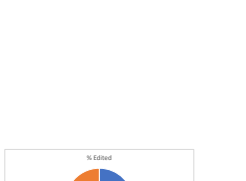


Table with columns: Accession, % identity, % coverage, % of reads, % of reads, % of reads.

Summary table for sample 2M512-1-4044 (Sample 2).

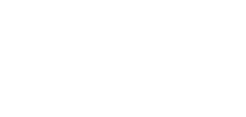


2M512-1-4044 Sample 1 Sample Name



Table with columns: Accession, % identity, % coverage, % of reads, % of reads, % of reads.

Summary table for sample 2M512-1-4044 (Sample 1).





Comparison of experimental indel frequency outcomes in iPSC-RPE+GE to outcomes predicted by inDelphi tool

gRNA name	gRNA sequence	Celltype	1-bp ins frequency	Frameshift frequency	Frame +0 frequency	Frame +1 frequency	Frame +2 frequency	URL link to analysis
R218C sgRNA	GGTGTCACACTGAGTACACA	mESC	8.60384578	84.21743046	15.78256954	61.8101643	22.40726616	/single_mESC_ILy6sOijgBxepTEAlNgQFSbdfuffLygYK_C_50
R218C sgRNA	GGTGTCACACTGAGTACACA	HEK293	21.5628124	86.45522474	13.54477526	67.22506179	19.23016296	/single_HEK293_ILy6sOijgBxepTEAlNgQFSbdfuffLygYK_C_50
R218C sgRNA	GGTGTCACACTGAGTACACA	U2OS	38.47271826	89.3752794	10.6247206	74.29085719	15.0844222	/single_U2OS_ILy6sOijgBxepTEAlNgQFSbdfuffLygYK_C_50
R218C sgRNA	GGTGTCACACTGAGTACACA	HCT116	24.19476211	86.90971793	13.09028207	68.32482061	18.58489732	/single_HCT116_ILy6sOijgBxepTEAlNgQFSbdfuffLygYK_C_50
R218C sgRNA	GGTGTCACACTGAGTACACA	K562	13.66236759	85.09095159	14.90904841	63.92386501	21.16708657	/single_K562_ILy6sOijgBxepTEAlNgQFSbdfuffLygYK_C_50
A146K sgRNA	ACTTTGGTGCTGACGCTGCGC	U2OS*	19.01305833	82.92588141	17.07411859	75.67184442	7.254036991	/single_U2OS_K3Gf7Acy5vLHv6vP74dfKR2tgbC9MPbkl_G_50
N296H sgRNA	TCATCATCCTCTCCAAGGGG	U2OS*	19.80291099	78.05645198	21.94354802	48.09345543	29.96299654	/single_U2OS_qIIGKdv4J3D3ioPFhndfNcHTNC5I9IT0Z_C_50

\*Note: only predicted outcome in U2OS line data shown for A146K sgRNA and N296H sgRNA as U2OS celltype most closely correlated with % frameshift observed experimentally for the R218C sgRNA in iPSC-RPE. Results for other lines can be viewed by following URL.

inDelphi analysis (all celltypes) R218C sgRNA in iPSC-RPE (this study)

Predicted (% frameshift)	Experimental (% frameshift)
84.2%	96.5%
86.5%	92.8%
89.4%	93.2%
86.9%	92.1%
85.1%	98.0%
86.4%	94.5%
13.6%	5.50%

avg frameshift  
avg non-frameshift

	frameshift	non-frameshift
Predicted	86.4%	13.6%

	frameshift	non-frameshift
Experimental	94.5%	5.50%

