


Supplementary Material



Mutational Signatures in Cancer

MuSiCa

Input file format
 VCF TSV Excel MAF
[Help with input file format](#)

Upload your files
 Browse... TCGA.COAD.mutect.853e5584-b8c3-4836-9bda-6e7e84a64d97.DR-7.0.somatic.maf
 Upload complete

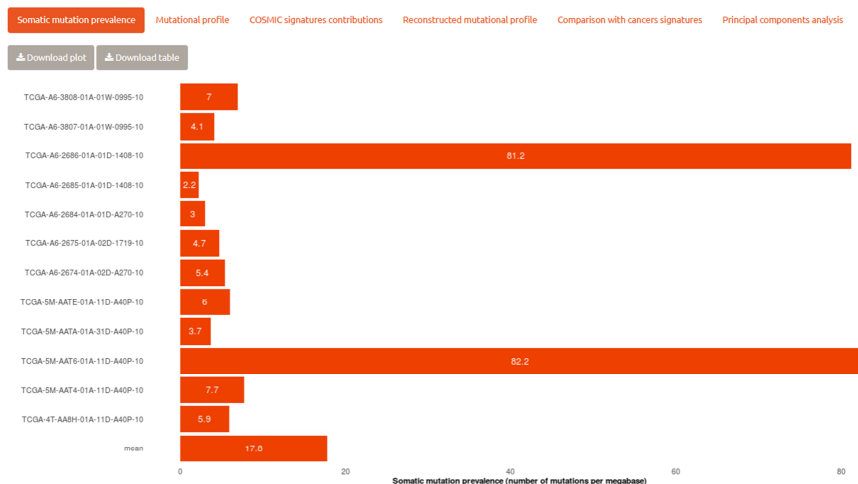
Reference genome
 UCSC GRCh38/hg38

Type of study
 Whole Genome Sequencing
 Whole Exome Sequencing
 Targeted Sequencing


Select your samples
 TCGA-SM-AATE-01A-11D-A40P-10
 TCGA-A6-2671-01A-01D-1408-10
 TCGA-A6-2672-01B-03D-2298-08
 TCGA-A6-2674-01A-02D-A270-10
 TCGA-A6-2675-01A-02D-1719-10
 TCGA-A6-2677-01A-01D-A270-10
 TCGA-A6-2679-01A-02D-1408-10

Show mean

Clear



Supplementary Fig. 1. Somatic mutational prevalence in MuSiCa web app. Mutational burden output tab showing a subset of the TCGA-COAD project samples and its mean value.



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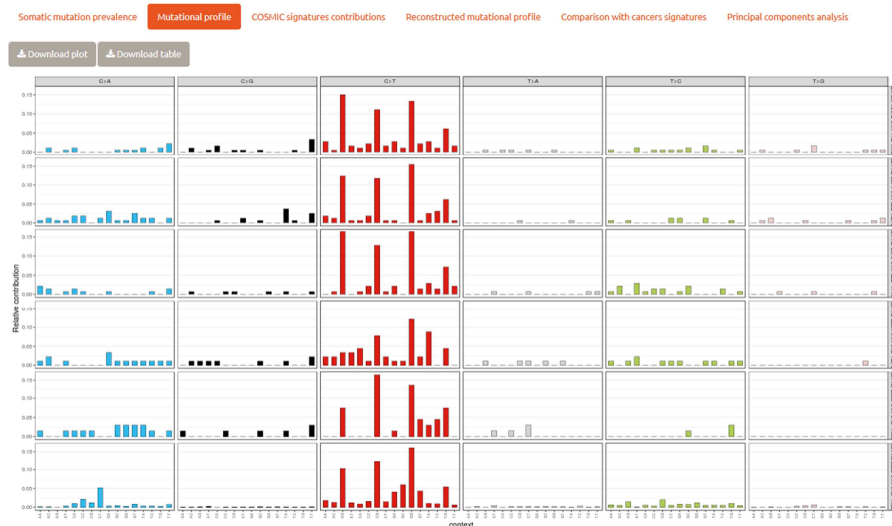
Upload your files
 Browse... TCGA.COAD.mutect.853e5584-b8c3-4836-9bda-6e7e84a64d97.DR-7.0.somatic.maf
 Upload complete

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Select your samples
 TCGA-SM-AATE-01A-11D-A40P-10
 TCGA-A6-2671-01A-01D-1408-10
 TCGA-A6-2672-01B-03D-2298-08
 TCGA-A6-2674-01A-02D-A270-10
 TCGA-A6-2675-01A-02D-1719-10
 TCGA-A6-2677-01A-01D-A270-10
 TCGA-A6-2679-01A-02D-1408-10

Clear



Supplementary Fig. 2. Mutational profile representation in MuSiCa web app. Mutational profile output tab showing a subset of the TCGA-COAD samples.

MuSiCa

Input file format
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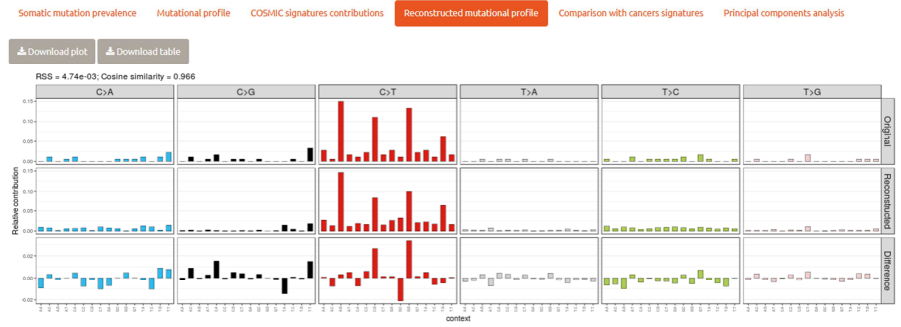
Upload your file/s
 Browse... TCGA-COAD.mutect.853e5584-b8c3-4836-9bda-6e7e84a64d97-DR-7.0.somatic.maf
 Upload complete

Reference genome
 UCSC GRCh38/hg38

Type of study
 Whole Genome Sequencing
 Whole Exome Sequencing
 Targeted Sequencing

Select your samples
 TCGA-SM-AATG-01A-11D-A40P-10
 TCGA-SM-AATA-01A-31D-A40P-10
 TCGA-SM-AATE-01A-11D-A40P-10
 TCGA-A6-2671-01A-01D-1408-10
 TCGA-A6-2672-01B-03D-3298-08
 TCGA-A6-2674-01A-02D-A270-10
 TCGA-A6-2675-01A-02D-1719-10

Clear



Supplementary Fig. 3. Reconstruction of mutational profile in MuSiCa web app. Reconstructed mutational profile output tab showing a specific sample of the TCGA-COAD project.

MuSiCa

Input file format
 VCF TSV Excel MAF
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Upload your file/s
 Browse... TCGA-COAD.mutect.853e5584-b8c3-4836-9bda-6e7e84a64d97-DR-7.0.somatic.maf
 Upload complete

Reference genome
 UCSC GRCh38/hg38

Type of study
 Whole Genome Sequencing
 Whole Exome Sequencing
 Targeted Sequencing

Select your samples
 TCGA-SM-AATE-01A-11D-A40P-10
 TCGA-A6-2671-01A-01D-1408-10
 TCGA-A6-2672-01B-03D-3298-08
 TCGA-A6-2674-01A-02D-A270-10
 TCGA-A6-2675-01A-02D-1719-10
 TCGA-A6-2677-01A-01D-A270-10
 TCGA-A6-2679-01A-02D-1408-10

Show mean

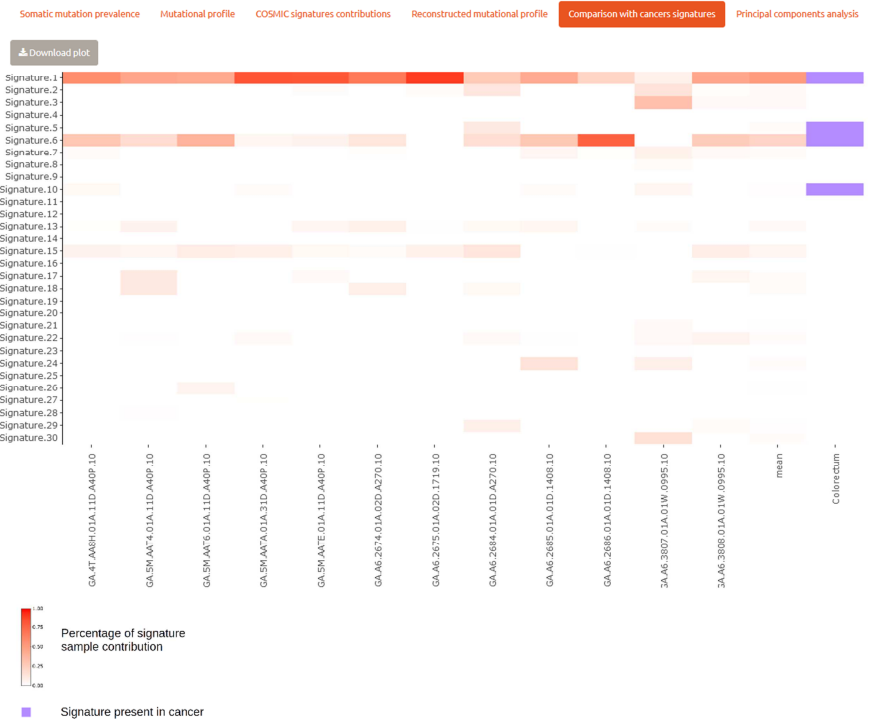
Select the cancers to compare
 All cancers
 Adrenocorticalcarcinoma
 ALL
 AML
 Bladder
 Breast
 Cervix
 Chondrosarcoma
 CLL
 Colorectum

Column dendrogram
 yes no

Row dendrogram
 yes no

Show sample names

Clear



Supplementary Fig. 4. Comparison with cancer signatures in MuSiCa web app. Output tab presenting a comparison of known signatures contributions with mutational signatures reported in different human cancer types in a subset of the TCGA-COAD samples and its mean value.

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Upload your file/s
 Browse... TCGA-COAD.mutect.853e5584-b8c3-4836-9bda-6e7e84a64d97.DR-7.0.somatic.maf
 Upload complete

Reference genome
 UCSC GRCh38/hg38

Type of study
 Whole Genome Sequencing
 Whole Exome Sequencing
 Targeted Sequencing

Select your samples

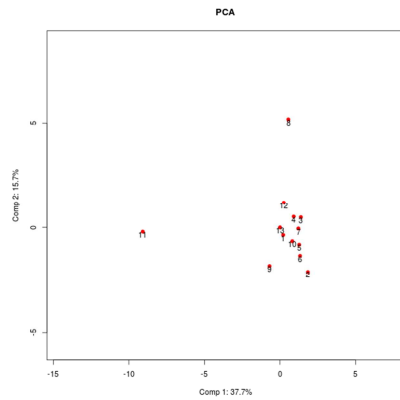
- TCGA-5M-AA10-01A-11D-A40P-10
- TCGA-A6-2677-01A-01D-1408-10
- TCGA-A6-2672-01B-03D-2298-08
- TCGA-A6-2674-01A-02D-A270-10
- TCGA-A6-2675-01A-02D-1719-10
- TCGA-A6-2677-01A-01D-A270-10
- TCGA-A6-2679-01A-02D-1408-10

Clear

Somatic mutation prevalence Mutational profile COSMIC signatures contributions Reconstructed mutational profile Comparison with cancers signatures **Principal components analysis**

Download plot Download table

ID	Sample
1	TCGA-4T-AA8H-01A-11D-A40P-10
2	TCGA-5M-AA10-01A-11D-A40P-10
3	TCGA-5M-AA10-01A-11D-A40P-10
4	TCGA-5M-AA10-01A-11D-A40P-10
5	TCGA-5M-AA10-01A-11D-A40P-10
6	TCGA-A6-2674-01A-02D-A270-10
7	TCGA-A6-2675-01A-02D-1719-10
8	TCGA-A6-2684-01A-01D-A270-10
9	TCGA-A6-2685-01A-01D-1408-10
10	TCGA-A6-2686-01A-01D-1408-10
11	TCGA-A6-3807-01A-01W-0995-10
12	TCGA-A6-3808-01A-01W-0995-10
13	mean



Supplementary Fig. 5. Principal component analysis in MuSiCa web app. Principal component analysis output tab presenting a classification of a specific subset of the TCGA-COAD samples according to the quantification of known signatures contributions.