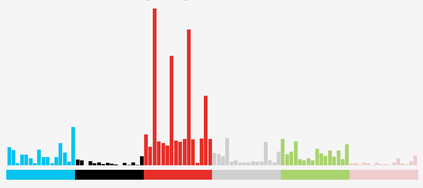
Figure S48

A

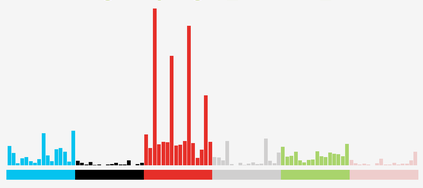
## Esophagus
## common SBS signatures

SBS1

ICGC-Esophagus_common_SBS1



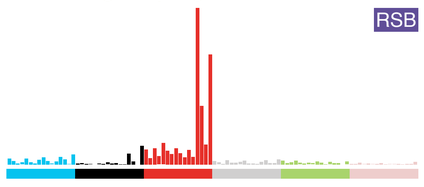
Hartwig-Esophagus_common_SBS1



SBS2

Hartwig-Esophagus_common_SBS2

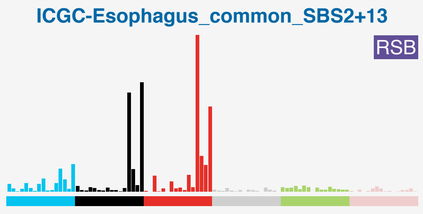
RSB



SBS2+13

ICGC-Esophagus_common_SBS2+13

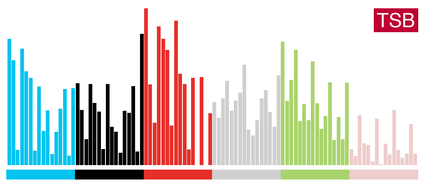
RSB



SBS3+8

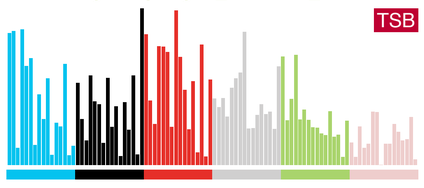
ICGC-Esophagus_common_SBS3+8

TSB



Hartwig-Esophagus_common_SBS3+8

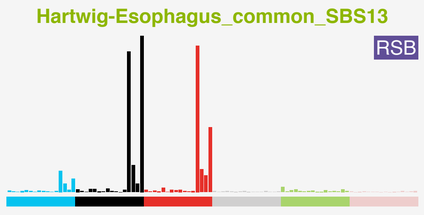
TSB



SBS13

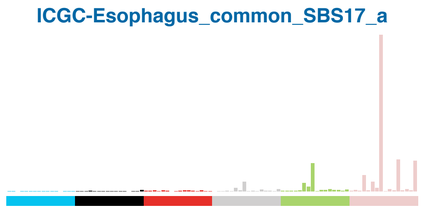
Hartwig-Esophagus_common_SBS13

RSB

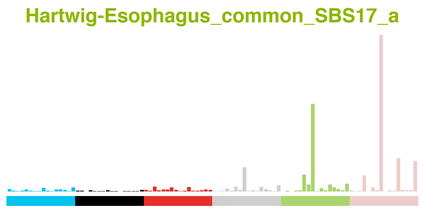


SBS17

ICGC-Esophagus_common_SBS17_a

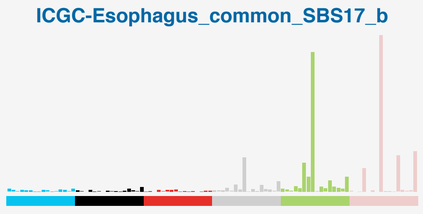


Hartwig-Esophagus_common_SBS17_a

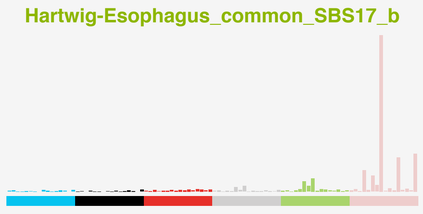


SBS17

ICGC-Esophagus_common_SBS17_b

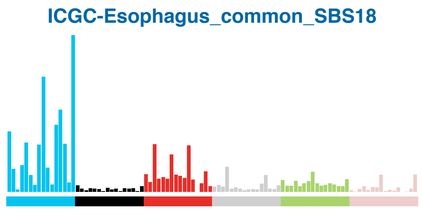


Hartwig-Esophagus_common_SBS17_b

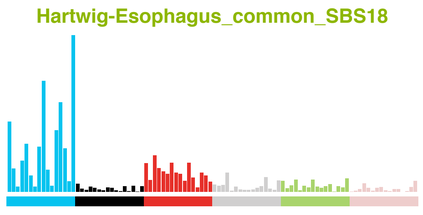


SBS18

ICGC-Esophagus_common_SBS18

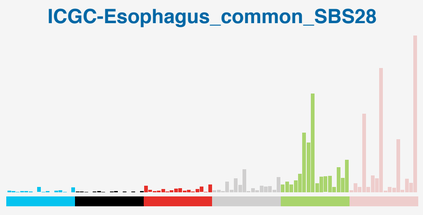


Hartwig-Esophagus_common_SBS18

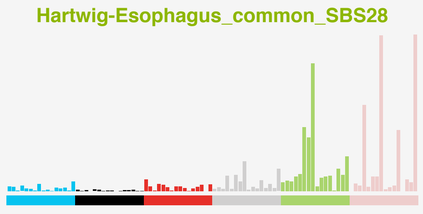


SBS28

ICGC-Esophagus_common_SBS28

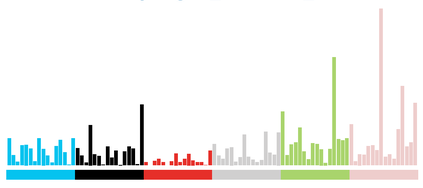


Hartwig-Esophagus_common_SBS28



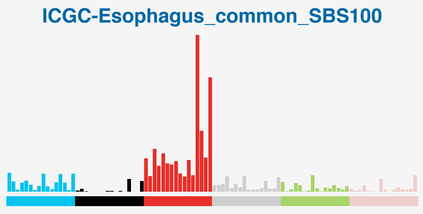
SBS93

ICGC-Esophagus_common_SBS93



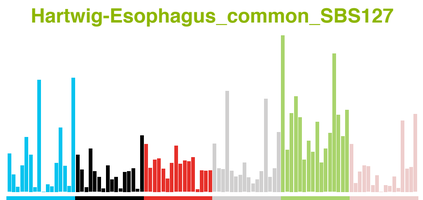
SBS100

ICGC-Esophagus_common_SBS100



SBS127

Hartwig-Esophagus_common_SBS127



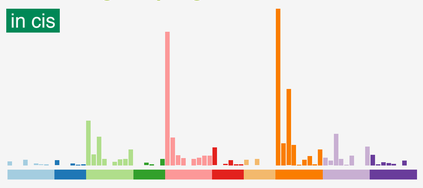
B

## Esophagus
## common DBS signatures

DBS5

Hartwig-Esophagus_common_DBS5

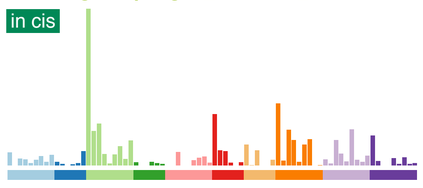
in cis



DBS13+20

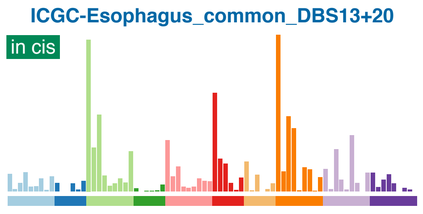
Hartwig-Esophagus_common_DBS13+20

in cis



ICGC-Esophagus_common_DBS13+20

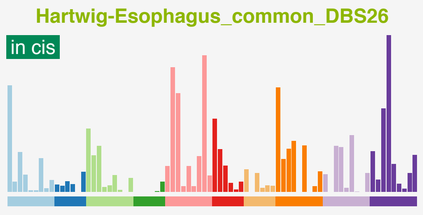
in cis



DBS26

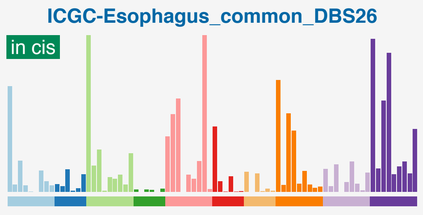
Hartwig-Esophagus_common_DBS26

in cis



ICGC-Esophagus_common_DBS26

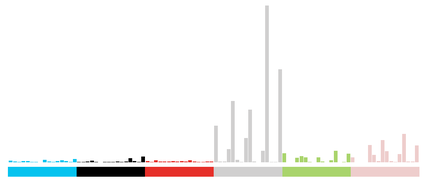
in cis



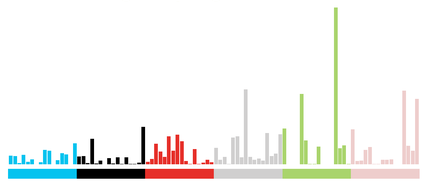
C

## Esophagus
## rare SBS signatures, also in COSMIC v3.2

Hartwig-Esophagus_rare_SBS90

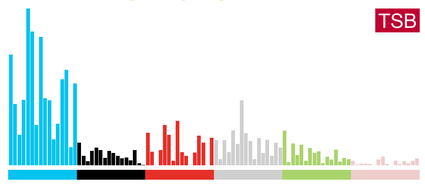


Hartwig-Esophagus_rare_SBS93



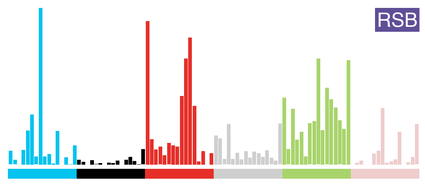
Hartwig-Esophagus_rare_SBS4

TSB



Hartwig-Esophagus_rare_SBS44

RSB

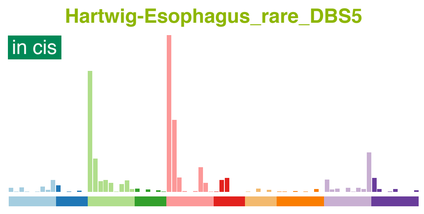


D

## Esophagus
## rare SBS signatures, not in COSMIC v3.2

Hartwig-Esophagus_rare_SBS112

TSB

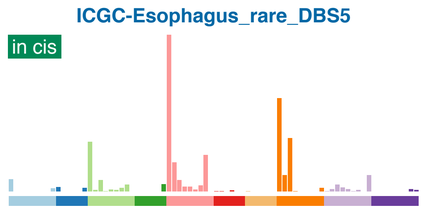


E

## Esophagus
## rare DBS signatures

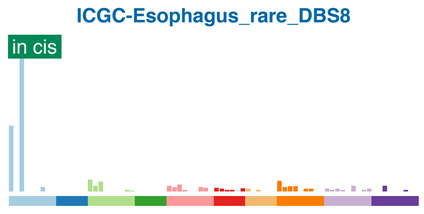
ICGC-Esophagus_rare_DBS5

in cis



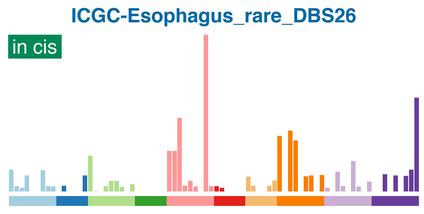
ICGC-Esophagus_rare_DBS8

in cis



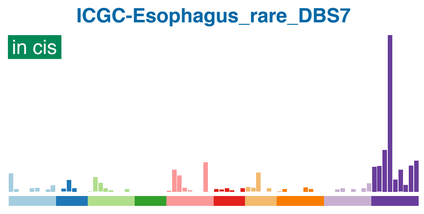
ICGC-Esophagus_rare_DBS26

in cis



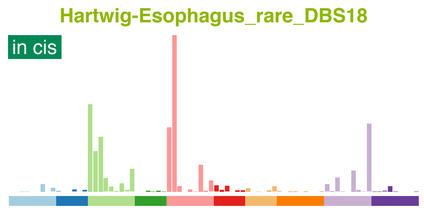
ICGC-Esophagus_rare_DBS7

in cis

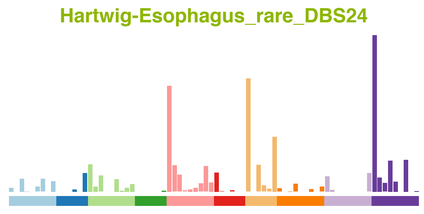


Hartwig-Esophagus_rare_DBS18

in cis



Hartwig-Esophagus_rare_DBS24



Hartwig-Esophagus_rare_DBS5

in cis



Hartwig-Esophagus_rare_DBS2

in cis

