

Methylation profiling report



GERMAN
CANCER RESEARCH CENTER
IN THE HELMHOLTZ ASSOCIATION



Heidelberg University Hospital



General information

Sentrix ID: 200069280223_R06C01
Array type: 450k
Material type: FFPE DNA
Gender: female

Brain tumor methylation classifier results (v11b4)

Methylation classes (MCs with score ≥ 0.3)

methylation class glioblastoma, IDH wildtype, H3.3 G34 mutant

Calibrated score Interpretation

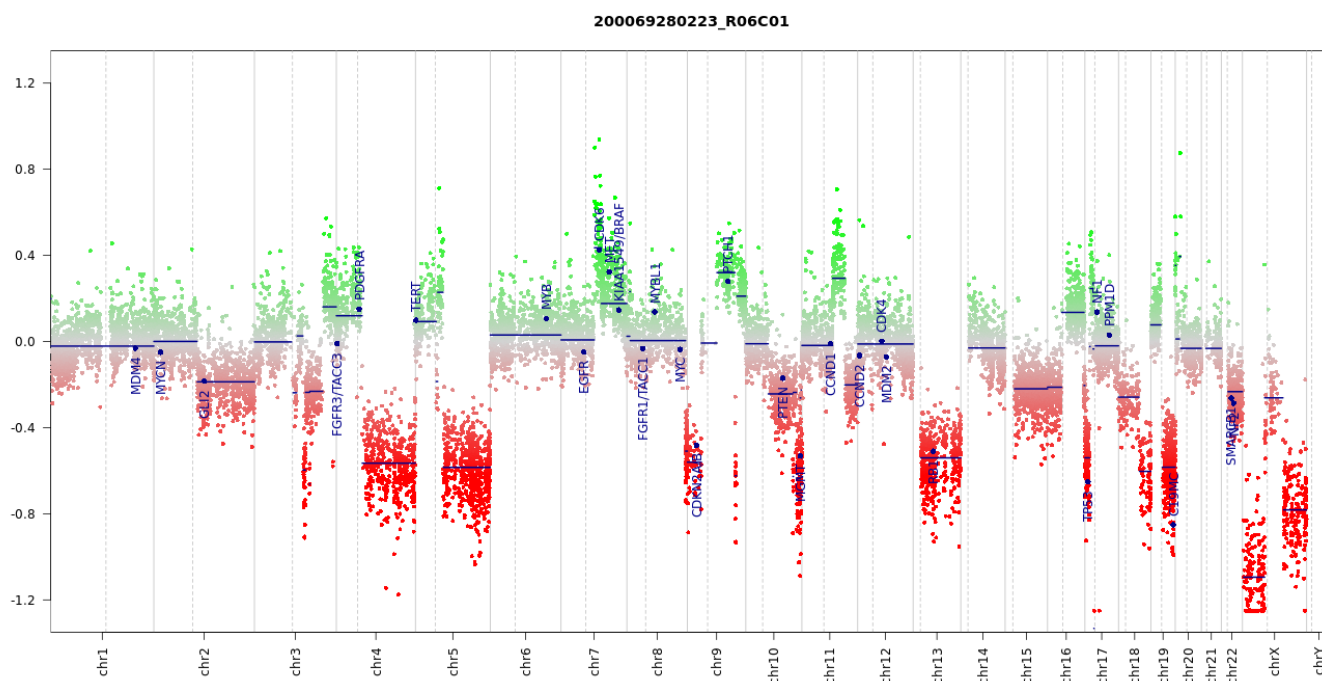
0.99 match

Legend: Match (score ≥ 0.9) No match (score < 0.9): possibly still relevant for low tumor content and low DNA quality cases. Match to MC family member (score ≥ 0.5)

Class descriptions

Methylation class glioblastoma, IDH wildtype, H3.3 G34 mutant: The methylation class "glioblastoma, IDH wildtype, H3.3 G34 mutant" almost exclusively comprises tumors with glioblastoma, IDH wildtype histology as well as rare cases with anaplastic astrocytoma, IDH wildtype or embryonal histology. Location is typically in the supratentorial hemispheres; Median age is 19.5 years (range 0 to 40). The vast majority of cases in this class harbor mutations of codon 34 of the H3.3 gene (H3F3A). Copy number changes are numerous, with gain of 1q and 7 ($>40\%$ of cases) and (focal) loss of 4q, 10q and 13 (each in over 40%) being most frequent

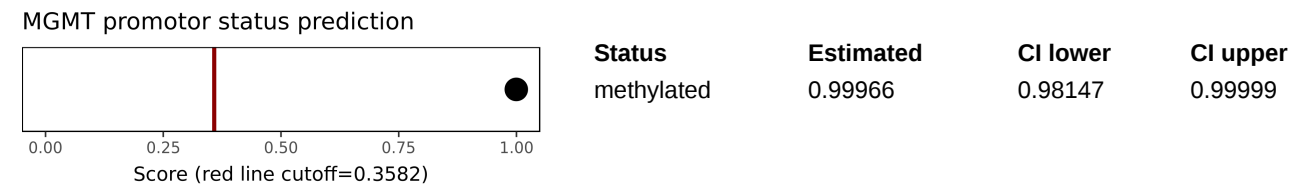
Copy number variation profile



Depiction of chromosome 1 to 22 (and X/Y if automatic prediction was successful). Gains/amplifications represent positive, losses negative deviations from the baseline. 29 brain tumor relevant gene regions are highlighted for easier assessment.

(see Hovestadt & Zapatka, <http://www.bioconductor.org/packages/devel/bioc/html/conumee.html>)

MGMT promotor methylation (MGMT-STP27)



(see Bady et al, J Mol Diagn 2016; 18(3):350-61)

Disclaimer

Classification using methylation profiling is a research tool under development, it is not verified and has not been clinically validated. Implementation of the results in a clinical setting is in the sole responsibility of the treating physician. Intended for non-commercial use only.

Run information

Report: idat_reportBrain_v11b4 Version 2.0
Task version:

Task	Version
idat_qc	2.0
idat_predictBrain	2.1
idat_rs_gender	2.0
idat_predictMGMT	2.0
idat_cnvp	3.0