Supplemental Material 6 (SM6) Full BrainClassifier reports







Sample identifier:	207166150179_R07C01	Automatic pred	liction	
Sentrix ID:	207166150179_R07C01	Array type:	EPIC	
Material type:	NA	Material type:	DNA-FFPE	×
Gender:	NA	Gender:	female	
Supplier diagnosis:	MEN-27(1)-T.ny	Legend: VOk	Supplier information or prediction not available prediction and sup information	

Brain tumor classifier results (12.5)

Methylation classes (Highest level >= 0.3, lower levels >= 0.1, all of lowest level)		Calibrated score	Interpretation	
Mening	ioma	0.99	match	\checkmark
Meningioma		0.99	match	~
	Meningioma, Benign	0.99	match	~
	Mc Meningioma, Subtype Benign, Subclass 2 (novel)	0.76	no match	X
	Mc Meningioma, Subtype Benign, Subclass 3 (novel)	0.21	no match	X
	Mc Meningioma, Subtype Benign, Subclass 1 (novel)	0.00	no match	×

quality cases.

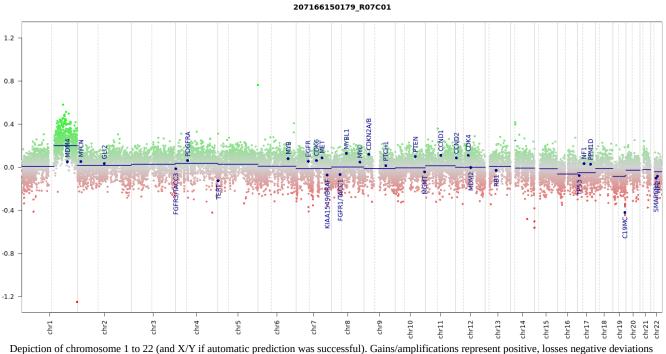
(score >= 0.5)

Class descriptions

MC Meningioma, subtype benign, subclass 2 (novel): The "mc Meningioma benign" comprises meningiomas epigenetically in one of the groups benign-1, 2 or 3. Subclass benign-1 cases typically show 22q deletions/NF2 mutations and rarely other mutations or CNVs. Histology is mostly but not exclusively fibroblastic, psammomatous or transitional. Subclass benign-2 cases typically show AKT1/TRAF7, KLF4/TRAF7 or SMO mutations and rarely other mutations or CNVs. Histology is mostly meningothelial (then typically AKT1 mutant) or secretory (KLF4 mutant). Subclass benign-3 cases typically show trisomy 5, other trisomies, and can show 22q deletions/NF2 mutations and rarely other mutations or CNVs. Histology is mostly but not exclusively angiomatous, metaplastic, or microcytic. Prognosis in this mc is typically favourable, similar to WHO grade 1. Integration of meningioma subclasses into the brain tumor classifier is under development, thus, the specific meningioma classifier should be consulted in parallel. Integration of histology, methylation and CNVs can further increase prognostic accuracy.

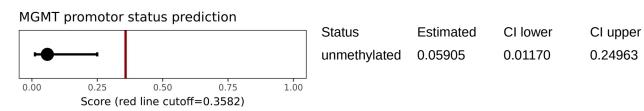
MC Meningioma, subtype benign, subclass 3 (novel): The "mc Meningioma benign" comprises meningiomas epigenetically in one of the groups benign-1, 2 or 3. Subclass benign-1 cases typically show 22q deletions/NF2 mutations and rarely other mutations or CNVs. Histology is mostly but not exclusively fibroblastic, psammomatous or transitional. Subclass benign-2 cases typically show AKT1/TRAF7, KLF4/TRAF7 or SMO mutations and rarely other mutations or CNVs. Histology is mostly meningothelial (then typically AKT1 mutant) or secretory (KLF4 mutant). Subclass benign-3 cases typically show trisomy 5, other trisomies, and can show 22q deletions/NF2 mutations and rarely other mutations or CNVs. Histology is mostly but not exclusively angiomatous, metaplastic, or microcytic. Prognosis in this mc is typically favourable, similar to WHO grade 1. Integration of meningioma subclasses into the brain tumor classifier is under development, thus, the specific meningioma classifier should be consulted in parallel. Integration of histology, methylation and CNVs can further increase prognostic accuracy.

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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)



Classification using methylation profiling is a tool for research use only, it is not verified and has not been clinically validated and, therefore, must not be used for diagnostic purposes. This tool is not HIPAA compliant.

Run information

Report: report_website_mnp_brain_v12.5_sample (Version 1.0)

Task	Version
idat_preprocess	2.0.1
idat_qc	2.0.1
idat_predictBrain	2.0.1
idat_rs_gender	2.0.1
idat_cnvp	3.0.1
idat_mgmt	2.0.1
report_website_mnp_brain_v11b4_research	2.1
report_website_mnp_brain_v11b4_sample	2.1
idat_predictBrain	12.5
report_website_mnp_brain_v12.5_sample	1.0







Sample identifier:	207166150179_R08C01	Automatic pred	diction	
Sentrix ID:	207166150179_R08C01	Array type:	EPIC	
Material type:	NA	Material type:	DNA-FFPE	×
Gender:	NA	Gender:	female	
Supplier diagnosis:	MEN-27(1)-X	Legend: VOk	Supplier information or prediction not available Warning, mi prediction and su information	ssmatch of upplier

Brain tumor classifier results (12.5)

Methylation classes (Highest level >= 0.3, lower levels >= 0.1, all of lowest level)		Calibrated score	Interpretation		
Mening	jioma		0.98	match	~
Meningioma		0.98	match	~	
	Meningi	oma, Benign	0.96	match	~
	Мс	Meningioma, Subtype Benign, Subclass 3 (novel)	0.92	match	~
	Мс	Meningioma, Subtype Benign, Subclass 2 (novel)	0.04	no match	X
	Mc	Meningioma, Subtype Benign, Subclass 1 (novel)	0.00	no match	×

quality cases.

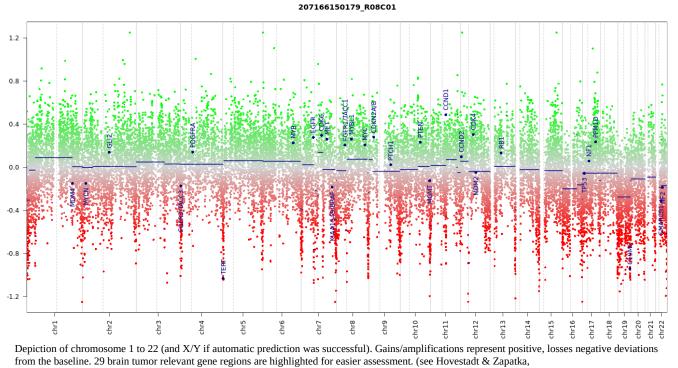
(score >= 0.5)

Class descriptions

MC Meningioma, subtype benign, subclass 3 (novel): The "mc Meningioma benign" comprises meningiomas epigenetically in one of the groups benign-1, 2 or 3. Subclass benign-1 cases typically show 22q deletions/NF2 mutations and rarely other mutations or CNVs. Histology is mostly but not exclusively fibroblastic, psammomatous or transitional. Subclass benign-2 cases typically show AKT1/TRAF7, KLF4/TRAF7 or SMO mutations and rarely other mutations or CNVs. Histology is mostly meningothelial (then typically AKT1 mutant) or secretory (KLF4 mutant). Subclass benign-3 cases typically show trisomy 5, other trisomies, and can show 22q deletions/NF2 mutations and rarely other mutations or CNVs. Histology is mostly but not exclusively angiomatous, metaplastic, or microcytic. Prognosis in this mc is typically favourable, similar to WHO grade 1. Integration of meningioma subclasses into the brain tumor classifier is under development, thus, the specific meningioma classifier should be consulted in parallel. Integration of histology, methylation and CNVs can further increase prognostic accuracy.

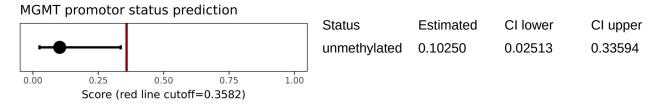
MC Meningioma, subtype benign, subclass 2 (novel): The "mc Meningioma benign" comprises meningiomas epigenetically in one of the groups benign-1, 2 or 3. Subclass benign-1 cases typically show 22q deletions/NF2 mutations and rarely other mutations or CNVs. Histology is mostly but not exclusively fibroblastic, psammomatous or transitional. Subclass benign-2 cases typically show AKT1/TRAF7, KLF4/TRAF7 or SMO mutations and rarely other mutations or CNVs. Histology is mostly meningothelial (then typically AKT1 mutant) or secretory (KLF4 mutant). Subclass benign-3 cases typically show trisomy 5, other trisomies, and can show 22q deletions/NF2 mutations and rarely other mutations or CNVs. Histology is mostly but not exclusively angiomatous, metaplastic, or microcytic. Prognosis in this mc is typically favourable, similar to WHO grade 1. Integration of meningioma subclasses into the brain tumor classifier is under development, thus, the specific meningioma classifier should be consulted in parallel. Integration of histology, methylation and CNVs can further increase prognostic accuracy.

MC Meningioma, subtype benign, subclass 1 (novel): The "mc Meningioma benign" comprises meningiomas epigenetically in one of the groups benign-1, 2 or 3. Subclass benign-1 cases typically show 22q deletions/NF2 mutations and rarely other mutations or CNVs. Histology is mostly but not exclusively fibroblastic, psammomatous or transitional. Subclass benign-2 cases typically show AKT1/TRAF7, KLF4/TRAF7 or SMO mutations and rarely other mutations or CNVs. Histology is mostly meningothelial (then typically AKT1 mutant) or secretory (KLF4 mutant). Subclass benign-3 cases typically show trisomy 5, other trisomies, and can show 22q deletions/NF2 mutations and rarely other mutations or CNVs. Histology is mostly but not exclusively angiomatous, metaplastic, or microcytic. Prognosis in this mc is typically favourable, similar to WHO grade 1. Integration of meningioma subclasses into the brain tumor classifier is under development, thus, the specific meningioma classifier should be consulted in parallel.



http://www.bioconductor.org/packages/devel/bioc/html/conumee.html)

MGMT promotor methylation (MGMT-STP27)



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Run information

Report: report_website_mnp_brain_v12.5_sample (Version 1.0)

Task	Version
idat_preprocess	2.0.1
idat_qc	2.0.1
idat_predictBrain	2.0.1
idat_rs_gender	2.0.1
idat_cnvp	3.0.1
idat_mgmt	2.0.1
report_website_mnp_brain_v11b4_research	2.1
report_website_mnp_brain_v11b4_sample	2.1
idat_predictBrain	12.5
report_website_mnp_brain_v12.5_sample	1.0







Sample identifier:	207166150179_R05C01	Automatic pred	diction	
Sentrix ID:	207166150179_R05C01	Array type:	EPIC	
Material type:	NA	Material type:	DNA-FFPE	×
Gender:	NA	Gender:	female	
Supplier diagnosis:	MEN-25(1)-T	Legend: VOk	Supplier information or prediction not available prediction and su information	ssmatch of applier

Brain tumor classifier results (12.5)

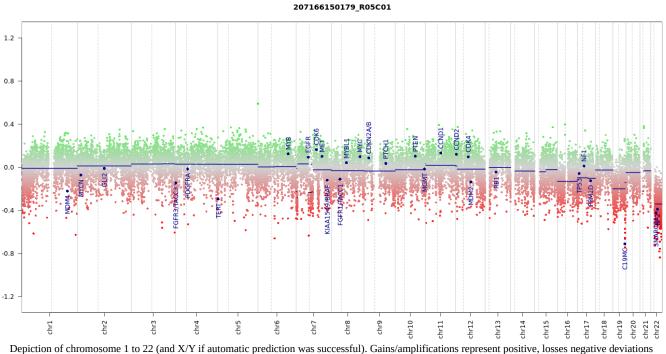
Calibrated score	Interpreta	Interpretation	
0.99	match	~	
0.99	match	~	
0.99	match	~	
0.99	match	~	
0.00	no match	×	
0.00	no match	X	
-	0.99 0.99 0.99 0.99 0.00	0.99 match 0.99 match	

Class descriptions

MC Meningioma, subtype benign, subclass 1 (novel): The "mc Meningioma benign" comprises meningiomas epigenetically in one of the groups benign-1, 2 or 3. Subclass benign-1 cases typically show 22q deletions/NF2 mutations and rarely other mutations or CNVs. Histology is mostly but not exclusively fibroblastic, psammomatous or transitional. Subclass benign-2 cases typically show AKT1/TRAF7, KLF4/TRAF7 or SMO mutations and rarely other mutations or CNVs. Histology is mostly meningothelial (then typically AKT1 mutant) or secretory (KLF4 mutant). Subclass benign-3 cases typically show trisomy 5, other trisomies, and can show 22q deletions/NF2 mutations and rarely other mutations or CNVs. Histology is mostly meningothelial (then typically AKT1 mutant) or secretory (KLF4 mutant). Subclass benign-3 cases typically show trisomy 5, other trisomies, and can show 22q deletions/NF2 mutations and rarely other mutations or CNVs. Histology is mostly but not exclusively angiomatous, metaplastic, or microcytic. Prognosis in this mc is typically favourable, similar to WHO grade 1. Integration of meningioma subclasses into the brain tumor classifier is under development, thus, the specific meningioma classifier should be consulted in parallel. Integration of histology, methylation and CNVs can further increase prognostic accuracy.

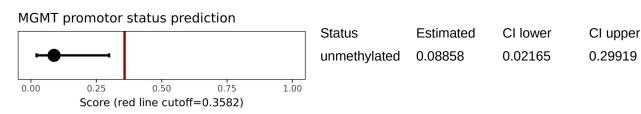
MC Meningioma, subtype benign, subclass 3 (novel): The "mc Meningioma benign" comprises meningiomas epigenetically in one of the groups benign-1, 2 or 3. Subclass benign-1 cases typically show 22q deletions/NF2 mutations and rarely other mutations or CNVs. Histology is mostly but not exclusively fibroblastic, psammomatous or transitional. Subclass benign-2 cases typically show AKT1/TRAF7, KLF4/TRAF7 or SMO mutations and rarely other mutations or CNVs. Histology is mostly meningothelial (then typically AKT1 mutant) or secretory (KLF4 mutant). Subclass benign-3 cases typically show trisomy 5, other trisomies, and can show 22q deletions/NF2 mutations and rarely other mutations or CNVs. Histology is mostly but not exclusively favourable, similar to WHO grade 1. Integration of meningioma subclasses into the brain tumor classifier is under development, thus, the specific meningioma classifier should be consulted in parallel. Integration of histology, methylation and CNVs can further increase prognostic accuracy.

MC Meningioma, subtype benign, subclass 2 (novel): The "mc Meningioma benign" comprises meningiomas epigenetically in one of the groups benign-1, 2 or 3. Subclass benign-1 cases typically show 22q deletions/NF2 mutations and rarely other mutations or CNVs. Histology is mostly but not exclusively fibroblastic, psammomatous or transitional. Subclass benign-2 cases typically show AKT1/TRAF7, KLF4/TRAF7 or SMO mutations and rarely other mutations or CNVs. Histology is mostly meningohelial (then typically AKT1 mutant) or secretory (KLF4 mutant). Subclass benign-3 cases typically show trisomy 5, other trisomies, and can show 22q deletions/NF2 mutations and rarely other mutations or CNVs. Histology is mostly meningohelial (then typically AKT1 mutant) or secretory (KLF4 mutant). Subclass benign-3 cases typically show trisomy 5, other trisomies, and can show 22q deletions/NF2 mutations and rarely other mutations or CNVs. Histology is mostly but not exclusively angiomatous, metaplastic, or microcytic. Prognosis in this mc is typically favourable, similar to WHO grade 1. Integration of meningioma subclasses into the brain tumor classifier is under development, thus, the specific meningioma classifier should be consulted in parallel.



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)



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Run information

Report: report_website_mnp_brain_v12.5_sample (Version 1.0)

Task	Version
idat_preprocess	2.0.1
idat_qc	2.0.1
idat_predictBrain	2.0.1
idat_rs_gender	2.0.1
idat_cnvp	3.0.1
idat_mgmt	2.0.1
report_website_mnp_brain_v11b4_research	2.1
report_website_mnp_brain_v11b4_sample	2.1
idat_predictBrain	12.5
report_website_mnp_brain_v12.5_sample	1.0







Sample identifier:	207166150179_R06C01	Automatic prediction		
Sentrix ID:	207166150179_R06C01	Array type:	EPIC	
Material type:	NA	Material type:	DNA-FFPE	×
Gender:	NA	Gender:	male	
Supplier diagnosis:	MEN-25(1)-X		Supplier information or prediction not available prediction a information	

Brain tumor classifier results (12.5)

Methylation classes (Highest level >= 0.3, lower levels >= 0.1, all of lowest level)		Calibrated score	Interpretation	
Meningioma		0.67	no match	X
Mening	ioma	0.67	no match	×
Me	eningioma, Benign	0.54	no match	X
	Mc Meningioma, Subtype Benign, Subclass 3 (novel)	0.50	no match	×
	Mc Meningioma, Subtype Benign, Subclass 1 (novel)	0.02	no match	×
	Mc Meningioma, Subtype Benign, Subclass 2 (novel)	0.00	no match	×
Me	eningioma, Malignant	0.11	no match	×
	Mc Meningioma, Subtype Malignant (novel)	0.11	no match	X

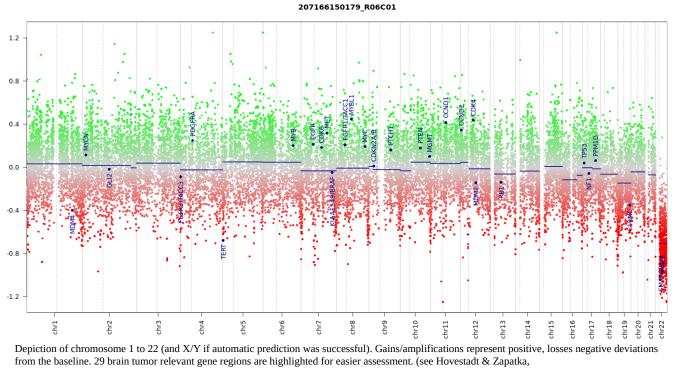
Class descriptions

MC Meningioma, subtype benign, subclass 3 (novel): The "mc Meningioma benign" comprises meningiomas epigenetically in one of the groups benign-1, 2 or 3. Subclass benign-1 cases typically show 22q deletions/NF2 mutations and rarely other mutations or CNVs. Histology is mostly but not exclusively fibroblastic, psammomatous or transitional. Subclass benign-2 cases typically show AKT1/TRAF7, KLF4/TRAF7 or SMO mutations and rarely other mutations or CNVs. Histology is mostly meningothelial (then typically AKT1 mutant) or secretory (KLF4 mutant). Subclass benign-3 cases typically show trisomy 5, other trisomies, and can show 22q deletions/NF2 mutations and rarely other mutations or CNVs. Histology is mostly but not exclusively fibroblastic, psammomatous or rarely other mutations or CNVs. Histology is mostly meningothelial (then typically AKT1 mutant) or secretory (KLF4 mutant). Subclass benign-3 cases typically show trisomy 5, other trisomies, and can show 22q deletions/NF2 mutations and rarely other mutations or CNVs. Histology is mostly but not exclusively angiomatous, metaplastic, or microcytic. Prognosis in this mc is typically favourable, similar to WHO grade 1. Integration of meningioma subclasses into the brain tumor classifier is under development, thus, the specific meningioma classifier should be consulted in parallel. Integration of histology, methylation and CNVs can further increase prognostic accuracy.

MC Meningioma, subtype benign, subclass 1 (novel): The "mc Meningioma benign" comprises meningiomas epigenetically in one of the groups benign-1, 2 or 3. Subclass benign-1 cases typically show 22q deletions/NF2 mutations and rarely other mutations or CNVs. Histology is mostly but not exclusively fibroblastic, psammomatous or transitional. Subclass benign-2 cases typically show AKT1/TRAF7, KLF4/TRAF7 or SMO mutations and rarely other mutations or CNVs. Histology is mostly meningothelial (then typically AKT1 mutant) or secretory (KLF4 mutant). Subclass benign-3 cases typically show trisomy 5, other trisomies, and can show 22q deletions/NF2 mutations and rarely other mutations or CNVs. Histology is mostly meningothelial (then typically AKT1 mutant) or secretory (KLF4 mutant). Subclass benign-3 cases typically show trisomy 5, other trisomies, and can show 22q deletions/NF2 mutations and rarely other mutations or CNVs. Histology is mostly but not exclusively angiomatous, metaplastic, or microcytic. Prognosis in this mc is typically favourable, similar to WHO grade 1. Integration of meningioma subclasses into the brain tumor classifier is under development, thus, the specific meningioma classifier should be consulted in parallel. Integration of histology, methylation and CNVs can further increase prognostic accuracy.

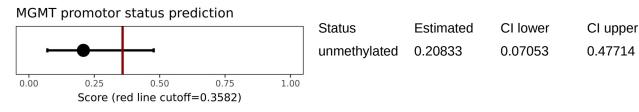
MC Meningioma, subtype benign, subclass 2 (novel): The "mc Meningioma benign" comprises meningiomas epigenetically in one of the groups benign-1, 2 or 3. Subclass

benign-1 cases typically show 22q deletions/NF2 mutations and rarely other mutations or CNVs. Histology is mostly but not exclusively fibroblastic, psammomatous or transitional. Subclass benign-2 cases typically show AKT1/TRAF7, KLF4/TRAF7 or SMO mutations and rarely other mutations or CNVs. Histology is mostly meningothelial (then typically AKT1 mutant) or secretory (KLF4 mutant). Subclass benign-3 cases typically show trisomy 5, other trisomies, and can show 22q deletions/NF2 mutations and rarely other mutations or CNVs. Histology is mostly but not exclusively angiomatous, metaplastic, or microcytic. Prognosis in this mc is typically favourable, similar to WHO grade 1. Integration of meningioma subclasses into the brain tumor classifier is under development, thus, the specific meningioma classifier should be consulted in parallel. Integration of histology, methylation and CNVs can further increase prognostic accuracy.



http://www.bioconductor.org/packages/devel/bioc/html/conumee.html)

MGMT promotor methylation (MGMT-STP27)



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Run information

Report: report_website_mnp_brain_v12.5_sample (Version 1.0)

Task	Version
idat_preprocess	2.0.1
idat_qc	2.0.1
idat_predictBrain	2.0.1
idat_rs_gender	2.0.1
idat_cnvp	3.0.1
idat_mgmt	2.0.1
report_website_mnp_brain_v11b4_research	2.1
report_website_mnp_brain_v11b4_sample	2.1
idat_predictBrain	12.5
report_website_mnp_brain_v12.5_sample	1.0







Sample identifier:	207166150100_R07C01	Automatic prediction		
Sentrix ID:	207166150100_R07C01	Array type:	EPIC	
Material type:	NA	Material type:	DNA-FFPE	×
Gender:	male	Gender:	female	×
Supplier diagnosis:	MEN-4-T	Legend: VOk	or prediction not available	Warning, missmatch of prediction and supplier information

Brain tumor classifier results (12.5)

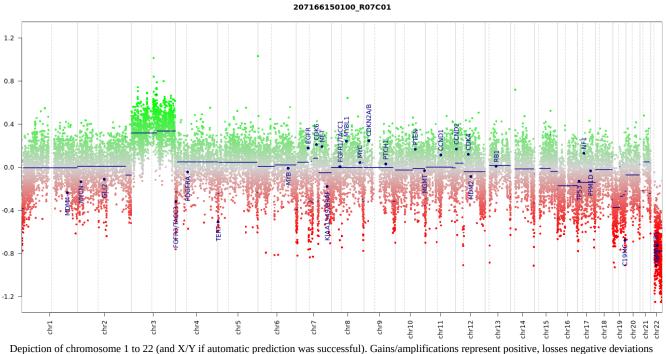
Methylation classes (Highest level >= 0.3, lower levels >= 0.1, all of lowest level)		Calibrated score	Interpretation	
Meningi	oma	0.99	match	~
Ме	ningioma	0.99	match	~
Meningioma, Benign		0.99	match	~
	Mc Meningioma, Subtype Benign, Subclass 3 (novel)	0.96	match	~
	Mc Meningioma, Subtype Benign, Subclass 2 (novel)	0.01	no match	X
	Mc Meningioma, Subtype Benign, Subclass 1 (novel)	0.01	no match	X

Class descriptions

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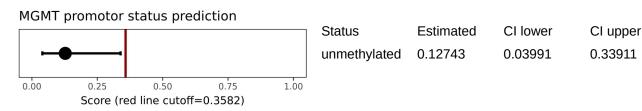
MC Meningioma, subtype benign, subclass 2 (novel): The "mc Meningioma benign" comprises meningiomas epigenetically in one of the groups benign-1, 2 or 3. Subclass benign-1 cases typically show 22q deletions/NF2 mutations and rarely other mutations or CNVs. Histology is mostly but not exclusively fibroblastic, psammomatous or transitional. Subclass benign-2 cases typically show AKT1/TRAF7, KLF4/TRAF7 or SMO mutations and rarely other mutations or CNVs. Histology is mostly meningothelial (then typically AKT1 mutant) or secretory (KLF4 mutant). Subclass benign-3 cases typically show trisomy 5, other trisomies, and can show 22q deletions/NF2 mutations and rarely other mutations or CNVs. Histology is mostly but not exclusively favourable, similar to WHO grade 1. Integration of meningioma subclasses into the brain tumor classifier is under development, thus, the specific meningioma classifier should be consulted in parallel. Integration of histology, methylation and CNVs can further increase prognostic accuracy.

MC Meningioma, subtype benign, subclass 1 (novel): The "mc Meningioma benign" comprises meningiomas epigenetically in one of the groups benign-1, 2 or 3. Subclass benign-1 cases typically show 22q deletions/NF2 mutations and rarely other mutations or CNVs. Histology is mostly but not exclusively fibroblastic, psammomatous or transitional. Subclass benign-2 cases typically show AKT1/TRAF7, KLF4/TRAF7 or SMO mutations and rarely other mutations or CNVs. Histology is mostly meningohelial (then typically AKT1 mutant) or secretory (KLF4 mutant). Subclass benign-3 cases typically show trisomy 5, other trisomies, and can show 22q deletions/NF2 mutations and rarely other mutations or CNVs. Histology is mostly but not exclusively angiomatous, metaplastic, or microcytic. Prognosis in this mc is typically favourable, similar to WHO grade 1. Integration of meningioma subclasses into the brain tumor classifier is under development, thus, the specific meningioma classifier should be consulted in parallel.



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MGMT promotor methylation (MGMT-STP27)



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Run information

Report: report_website_mnp_brain_v12.5_sample (Version 1.0)

Task	Version
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idat_qc	2.0.1
idat_predictBrain	2.0.1
idat_rs_gender	2.0.1
idat_cnvp	3.0.1
idat_mgmt	2.0.1
report_website_mnp_brain_v11b4_research	2.1
report_website_mnp_brain_v11b4_sample	2.1
idat_predictBrain	12.5
report_website_mnp_brain_v12.5_sample	1.0







Sample identifier:	207166150100_R08C01	Automatic prediction		
Sentrix ID:	207166150100_R08C01	Array type:	EPIC	
Material type:	NA	Material type:	DNA-FFPE	×
Gender:	male	Gender:	female	×
Supplier diagnosis:	MEN-4-X	Legend: VOk	or prediction not available P	Warning, missmatch of orediction and supplier nformation

Brain tumor classifier results (12.5)

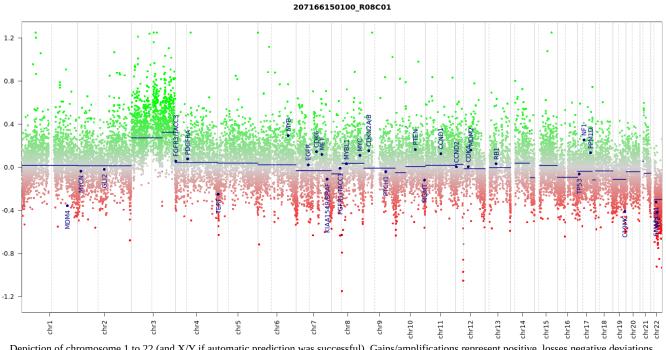
Methylation classes (Highest level >= 0.3, lower levels >= 0.1, all of lowest level)		Calibrated score	Interpretation	
Meningio	ma	0.86	no match	X
Mer	ingioma	0.86	no match	X
Meningioma, Benign		0.84	no match	X
	Mc Meningioma, Subtype Benign, Subclass 1 (novel)	0.61	no match	×
	Mc Meningioma, Subtype Benign, Subclass 3 (novel)	0.17	no match	×
	Mc Meningioma, Subtype Benign, Subclass 2 (novel)	0.05	no match	×

Class descriptions

MC Meningioma, subtype benign, subclass 1 (novel): The "mc Meningioma benign" comprises meningiomas epigenetically in one of the groups benign-1, 2 or 3. Subclass benign-1 cases typically show 22q deletions/NF2 mutations and rarely other mutations or CNVs. Histology is mostly but not exclusively fibroblastic, psammomatous or transitional. Subclass benign-2 cases typically show AKT1/TRAF7, KLF4/TRAF7 or SMO mutations and rarely other mutations or CNVs. Histology is mostly meningothelial (then typically AKT1 mutant) or secretory (KLF4 mutant). Subclass benign-3 cases typically show trisomy 5, other trisomies, and can show 22q deletions/NF2 mutations and rarely other mutations or CNVs. Histology is mostly meningothelial (then typically AKT1 mutant) or secretory (KLF4 mutant). Subclass benign-3 cases typically show trisomy 5, other trisomies, and can show 22q deletions/NF2 mutations and rarely other mutations or CNVs. Histology is mostly but not exclusively angiomatous, metaplastic, or microcytic. Prognosis in this mc is typically favourable, similar to WHO grade 1. Integration of meningioma subclasses into the brain tumor classifier is under development, thus, the specific meningioma classifier should be consulted in parallel. Integration of histology, methylation and CNVs can further increase prognostic accuracy.

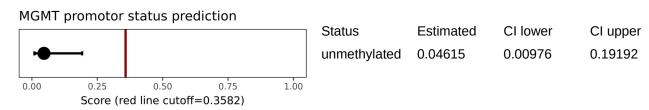
MC Meningioma, subtype benign, subclass 3 (novel): The "mc Meningioma benign" comprises meningiomas epigenetically in one of the groups benign-1, 2 or 3. Subclass benign-1 cases typically show 22q deletions/NF2 mutations and rarely other mutations or CNVs. Histology is mostly but not exclusively fibroblastic, psammomatous or transitional. Subclass benign-2 cases typically show AKT1/TRAF7, KLF4/TRAF7 or SMO mutations and rarely other mutations or CNVs. Histology is mostly meningothelial (then typically AKT1 mutant) or secretory (KLF4 mutant). Subclass benign-3 cases typically show trisomy 5, other trisomies, and can show 22q deletions/NF2 mutations and rarely other mutations or CNVs. Histology is mostly but not exclusively favourable, similar to WHO grade 1. Integration of meningioma subclasses into the brain tumor classifier is under development, thus, the specific meningioma classifier should be consulted in parallel. Integration of histology, methylation and CNVs can further increase prognostic accuracy.

MC Meningioma, subtype benign, subclass 2 (novel): The "mc Meningioma benign" comprises meningiomas epigenetically in one of the groups benign-1, 2 or 3. Subclass benign-1 cases typically show 22q deletions/NF2 mutations and rarely other mutations or CNVs. Histology is mostly but not exclusively fibroblastic, psammomatous or transitional. Subclass benign-2 cases typically show AKT1/TRAF7, KLF4/TRAF7 or SMO mutations and rarely other mutations or CNVs. Histology is mostly meningohelial (then typically AKT1 mutant) or secretory (KLF4 mutant). Subclass benign-3 cases typically show trisomy 5, other trisomies, and can show 22q deletions/NF2 mutations and rarely other mutations or CNVs. Histology is mostly meningohelial (then typically AKT1 mutant) or secretory (KLF4 mutant). Subclass benign-3 cases typically show trisomy 5, other trisomies, and can show 22q deletions/NF2 mutations and rarely other mutations or CNVs. Histology is mostly but not exclusively angiomatous, metaplastic, or microcytic. Prognosis in this mc is typically favourable, similar to WHO grade 1. Integration of meningioma subclasses into the brain tumor classifier is under development, thus, the specific meningioma classifier should be consulted in parallel.



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)



Classification using methylation profiling is a tool for research use only, it is not verified and has not been clinically validated and, therefore, must not be used for diagnostic purposes. This tool is not HIPAA compliant.

Run information

Report: report_website_mnp_brain_v12.5_sample (Version 1.0)

Task	Version
idat_preprocess	2.0.1
idat_qc	2.0.1
idat_predictBrain	2.0.1
idat_rs_gender	2.0.1
idat_cnvp	3.0.1
idat_mgmt	2.0.1
report_website_mnp_brain_v11b4_research	2.1
report_website_mnp_brain_v11b4_sample	2.1
idat_predictBrain	12.5
report_website_mnp_brain_v12.5_sample	1.0