MEDGENOME

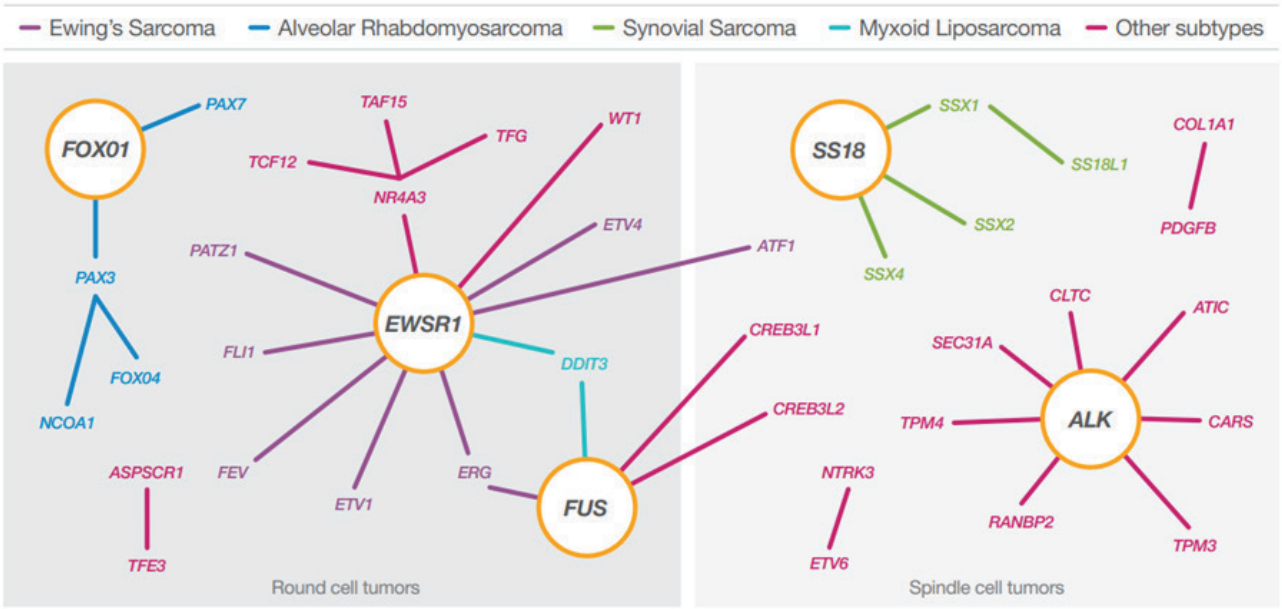
CAP ACCREDITED
COLLEGE of AMERICAN PATHOLOGISTS

SOFT TISSUE SARCOMA PANEL

Next Generation Sequencing (NGS) based genomic profiling.

Single test, Multiple fusions: Reproducible and economical solution to identify fusions in Sarcomas using RNA sequencing.

Common Fusion in Soft Tissue Sarcoma



MedGenome Soft Tissue Sarcoma Panel

Genomic alterations (SNVs, InDels and Fusions) in all NCCN guideline recommended soft tissue sarcoma cancer related genes are screened using NGS. A total of 109 genes are screened out of which 83 are analysed for fusions through RNA sequencing.

- Provides accurate diagnosis, prognosis and therapy selection
- Known and Unknown fusion partners can be identified through this assay
- Identifies actionable/potentially actionable biomarkers
- Result interpretation and treatment recommendations are based on AMP-ASCO-CAP guidelines
- Comprehensive coverage of complete coding regions of all the genes and intron/exon boundaries
- Covers tumour agnostic biomarkers such *BRAF*, *RET*, *NTRK1*, *NTRK2* and *NTRK3* which have approved targeted therapies across all metastatic solid tumours.

Laboratory developed assay as per CAP guidelines

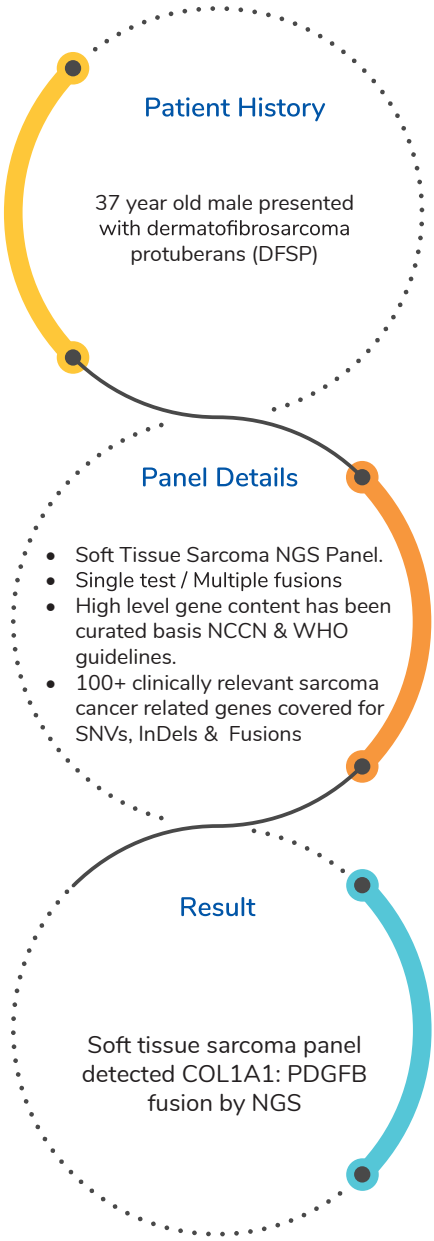
Sensitivity >98% and Specificity with 100%

Limit of detection: 5% VAF for SNV and InDels, >10 Spanning Reads for Fusions.

Test Details

Test Code	Test Name	Specimen Type	Methodology	TAT
MGM2515	Soft Tissue Sarcoma Panel	FFPE Tissue Block	NGS	14 Working days

Case Study



DFSP patients with COL1A1: PDGFB fusion can be benefitted using FDA approved targeted therapy (Imatinib mesylate)

https://www.fda.gov/ | PMID: 30085879 & 30601909

Gene Coverage

SNV's and InDels				
APC	BCOR	BRAF	CDKN2A	CTNNB1
EGFR	ERBB2	ESR1	FBXW7	FGFR1
FGFR2	FGFR3	FGFR4	FLT4	GNA11
GNA14	GNAQ	HRAS	IDH1	IDH2
KDR	KIT	KRAS	MDM2	MET
MYCN	MYOD1	NF1	NRAS	PDGFRA
PIK3CA	PLCG1	PTPBR	RET	SDHA
SDHB	SDHC	SMARCB1	TP53	

Fusions				
ALK	ASPL	BCOR	BRAF	CDK4
CIC	COL1A1	CSF1	DNAJB1	EGFR
EPC1	ERBB2	ERG	ESR1	ETV1
ETV4	ETV5	ETV6	EWSR1	FGFR1
FGFR2	FGFR3	FGFR4	FLT4	FOS
FOSB	FOXO1	FUS	GLI	GRB7
HEY1	HMGA2	INI1	JAK3	JAZF1
MAML2	MEAF6	MET	MGEA5	MKL2
NAB2	NCOA1	NCOA2	NCOA3	NTRK1
NTRK2	NTRK3	NUTM1	OGA	PAX3
PAX7	PDGFB	PHF1	PIK3CA	PLAG1
PRKACA	PRKCA	PRKCB	PRKCD	RAF1
RET	ROS1	RSPO2	RSPO3	SS18
SSX1	SSX2	STAT6	SUZ12	TAF15
TAF2N	TCF12	TFE3	TFEB	TFG
TPM3	USP6	VGLL2	VGLL3	WWTR1
YAP1	YWHAE	ZC3H7B		

Talk to the Experts:

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