









Tumor Mutation Burden (TMB) Reference Standards



 Optimize and validate TMB panels, and routinely monitor the performance of your TMB assay

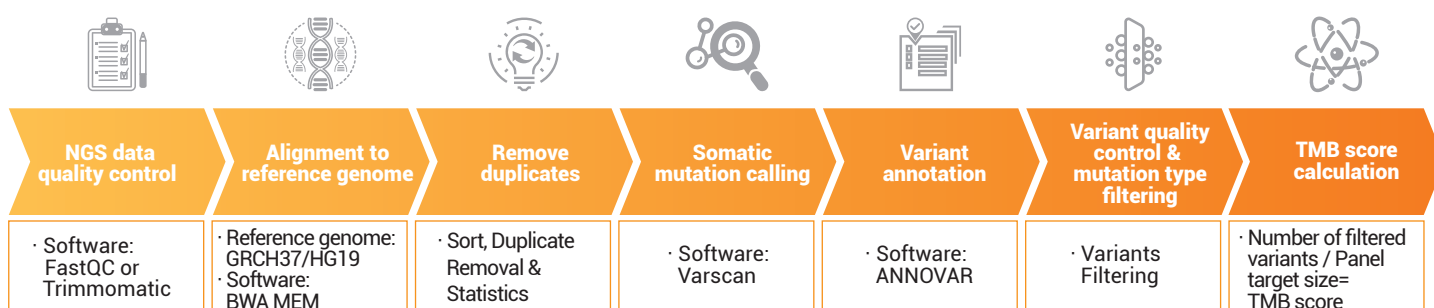
Key Features

-  Tumor-normal matched reference standards
-  22 pairs of TMB reference standards
-  Genomic DNA, ctDNA and FFPE formats are available
-  TMB scores range from 2 to 28
-  ddPCR verified allelic frequency to determine the limit of detection
-  Provide whole exome sequencing WES data of each batch, TMB score and bioinformatics pipeline
-  Compatible for multiple CDx development application
-  Mimic clinical samples with desired tumour fraction by mixing purified tumour and normal DNA

Product Information

Product Category	tTMB, bTMB	Product Format	gDNA, ctDNA, FFPE
TMB Score	A range of products with TMB score from 2 to 28 (tumor DNA can be diluted with matched normal DNA to get required tumor fractions)		
Verification Method	WES: all products ddPCR: tumor-normal DNA blended products		
WES Quality Control Parameters	WES, Illumina HiSeq X Ten, average read depth >500x IDT xGen Exome Research Panel v1.0, other relevant QC parameters		
TMB Score	TMB scores generated by WES data with open source algorithms		

TMB score - Analysis pipeline



Product List

Product Code	Product Name	Specification	TMB Score
CA0586	TMB-1-T gDNA Reference Standard	30ng/μL, 1μg/tube	28
CA0587	TMB-1-N gDNA Reference Standard	30ng/μL, 1μg/tube	
CA0588	TMB-4-T gDNA Reference Standard	30ng/μL, 1μg/tube	19.18
CA0589	TMB-4-N gDNA Reference Standard	30ng/μL, 1μg/tube	
CA0590	TMB-12-T gDNA Reference Standard	30ng/μL, 1μg/tube	15.15
CA0591	TMB-12-N gDNA Reference Standard	30ng/μL, 1μg/tube	
CA0592	TMB-6-T gDNA Reference Standard	30ng/μL, 1μg/tube	13.95
CA0593	TMB-6-N gDNA Reference Standard	30ng/μL, 1μg/tube	
CA0594	TMB-13-T gDNA Reference Standard	30ng/μL, 1μg/tube	6.10
CA0595	TMB-13-N gDNA Reference Standard	30ng/μL, 1μg/tube	

Sample list for customisation

Product Code	Suggested Specification	TMB Score	Product Code	Suggested Specification	TMB Score
GCTM002-T	30ng/μL, 1μg/tube	14.79	GCTM015-T	30ng/μL, 1μg/tube	7.54
GCTM002-N	30ng/μL, 1μg/tube		GCTM015-N	30ng/μL, 1μg/tube	
GCTM003-T	30ng/μL, 1μg/tube	20.56	GCTM016-T	30ng/μL, 1μg/tube	2.05
GCTM003-N	30ng/μL, 1μg/tube		GCTM016-N	30ng/μL, 1μg/tube	
GCTM005-T	30ng/μL, 1μg/tube	9.64	GCTM017-T	30ng/μL, 1μg/tube	5.82
GCTM005-N	30ng/μL, 1μg/tube		GCTM017-N	30ng/μL, 1μg/tube	
GCTM007-T	30ng/μL, 1μg/tube	6.85	GCTM018-T	30ng/μL, 1μg/tube	6.13
GCTM007-N	30ng/μL, 1μg/tube		GCTM018-N	30ng/μL, 1μg/tube	
GCTM008-T	30ng/μL, 1μg/tube	4.92	GCTM019-T	30ng/μL, 1μg/tube	6.49
GCTM008-N	30ng/μL, 1μg/tube		GCTM019-N	30ng/μL, 1μg/tube	
GCTM009-T	30ng/μL, 1μg/tube	5.26	GCTM020-T	30ng/μL, 1μg/tube	3.26
GCTM009-N	30ng/μL, 1μg/tube		GCTM020-N	30ng/μL, 1μg/tube	
GCTM012-T	30ng/μL, 1μg/tube	3.95	GCTM021-T	30ng/μL, 1μg/tube	13.38
GCTM012-N	30ng/μL, 1μg/tube		GCTM021-N	30ng/μL, 1μg/tube	
GCTM013-T	30ng/μL, 1μg/tube	5.49	GCTM022-T	30ng/μL, 1μg/tube	13.67
GCTM013-N	30ng/μL, 1μg/tube		GCTM022-N	30ng/μL, 1μg/tube	
GCTM014-T	30ng/μL, 1μg/tube	4.51			
GCTM014-N	30ng/μL, 1μg/tube				



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