









Tumor Mutation Burden (TMB) Reference Material



 **Optimize and validate TMB panels**
Routinely monitor the performance of your TMB assay

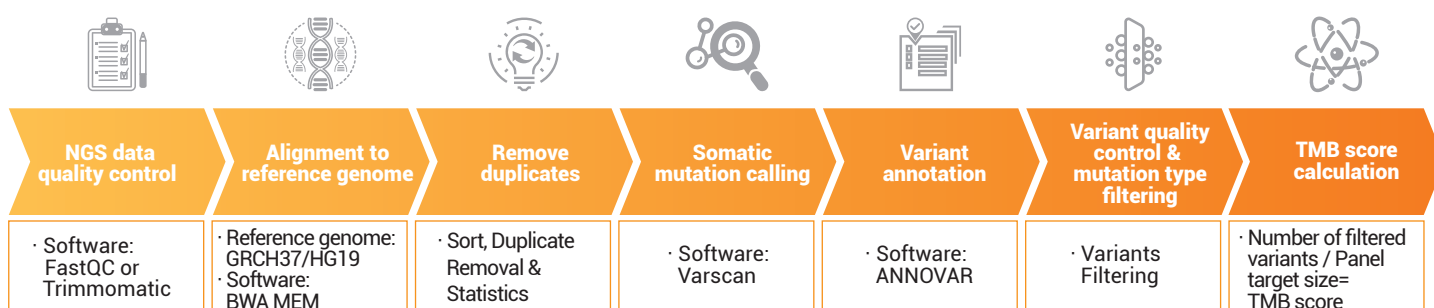
Key Features

-  Tumor-normal matched reference standards
-  22 pairs of TMB reference materials
-  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 data of each batch, TMB score and bioinformatics pipeline
-  Used In Multiple CDx R&D
-  Mimic patient samples by mixing purified tumor DNA with 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 purity)		
Verification Method	WES: all products ddPCR: tumor-normal DNA blended products		
WES Quality Control Parameters	Whole Exome Sequencing , Illumina HiSeq X Ten , Average read depth >500x IDT xGen Exome Research Panel v1.0 (39M) , Other relevant QC parameters		
TMB Score	TMB scores generated by WES data with open source algorithms		

TMB score - Analysis pipeline



Fast-track Product List

No.	Product Code	Product Name	TMB Score
1	CA0586	TMB-1-T gDNA Reference Standard	28
2	CA0587	TMB-1-N gDNA Reference Standard	
3	CA0588	TMB-4-T gDNA Reference Standard	19.18
4	CA0589	TMB-4-N gDNA Reference Standard	
5	CA0590	TMB-12-T gDNA Reference Standard	15.15
6	CA0591	TMB-12-N gDNA Reference Standard	
7	CA0592	TMB-6-T gDNA Reference Standard	13.95
8	CA0593	TMB-6-N gDNA Reference Standard	
9	CA0594	TMB-13-T gDNA Reference Standard	6.10
10	CA0595	TMB-13-N gDNA Reference Standard	

Made to order Product list

No.	Product Code	TMB Score	No.	Product Code	TMB Score
1	GCTM002-T	14.79	19	GCTM015-T	7.54
2	GCTM002-N		20	GCTM015-N	
3	GCTM003-T	20.56	21	GCTM016-T	2.05
4	GCTM003-N		22	GCTM016-N	
5	GCTM005-T	9.64	23	GCTM017-T	5.82
6	GCTM005-N		24	GCTM017-N	
7	GCTM007-T	6.85	25	GCTM018-T	6.13
8	GCTM007-N		26	GCTM018-N	
9	GCTM008-T	4.92	27	GCTM019-T	6.49
10	GCTM008-N		28	GCTM019-N	
11	GCTM009-T	5.26	29	GCTM020-T	3.26
12	GCTM009-N		30	GCTM020-N	
13	GCTM012-T	3.95	31	GCTM021-T	13.38
14	GCTM012-N		32	GCTM021-N	
15	GCTM013-T	5.49	33	GCTM022-T	13.67
16	GCTM013-N		34	GCTM022-N	
17	GCTM014-T	4.51			
18	GCTM014-N				

