PROVIDER-FRIENDLY MOLECULAR BIOMARKER REPORT TEMPLATE LEGEND

The template black text and tables would appear as written and/or displayed. The blue text describes the intended report content, provides recommendations on, or includes clarifications regarding the intended report content.

Patient Name:	Test:	Collection date:
Medical record number (MRN):	Tumor Type:	Received date:
Date of birth (DOB):	Specimen Type:	Report date:
Sex: Assigned at birth	Specimen No.:	Report status:
Gender: Optional, self-identified	Percentage neoplastic cells: %	

MOLECULAR BIOMARKER RESULT SUMMARY

Tier*	Variant Detected	Alteration Type	Allele Frequency (VAF) [†] / Copy Number [‡]	Level of Evidence	Targeted Therapy
I	Genomic alteration using HUGO gene name, transcript and HGVS nomenclature (c., p.) and colloquial name (if applicable)reported per AMP/ASCO/CAP Standards and Guidelines for the Interpretation and Reporting of Sequence Variants in Cancer (PMID: 27993330)	Single nucleotide variants, indels, splice site, exon skipping, copy number variant, missense, gene fusion, etc.		Level of Evidence*: Therapeutic, Diagnosis, and/or Prognosis; Levels A-D	Targeted therapies relevant for the specific practice area provided here (e.g., FDA in the US)
II	If there are multiple genomic alterations detected, they should appear in separate rows in order based on Tier (e.g., Tier I then Tier II)				Use drug classes if there are too many options
III					

^{*}Tier and Level of Evidence based on AMP/ASCO/CAP Standards and Guidelines for the Interpretation and Reporting of Sequence Variants in Cancer (PMID: 27993330)

GENOMIC SIGNATURES RESULT SUMMARY*

Biomarker	Sample	Result
Microsatellite instability (MSI)	Sample type; Tumor only or	High / Low with ranges/cutoffs as defined by
	Tumor / Germline Pair	laboratory
Tumor Mutational Burden (TMB)	Sample type; Tumor only or	High / Low with ranges/cutoffs as defined by
	Tumor / Germline Pair	laboratory
Homologous recombination	Sample type; Tumor only or	
deficiency (HRD) status	Tumor / Germline Pair	

[†]VAF = Variant Allele Frequency or Variant Allele Fraction *Define VAF in Test Description section below.*

[‡]State the ratio, then state gain or loss with an asterisk, with more information in the Interpretative Summary. If the ratio is stated, incorporate a disclosure or description.

INTERPRETATIVE SUMMARY

HISTOLOGICAL DIAGNOSIS

Include histological diagnosis, but not immunohistochemistry (IHC) results unless directly relevant (optional inclusion). Alternatively, provide comments to check the IHC results if they appear elsewhere. If there were concerns with the sample (e.g., quality) that may impact result interpretation indicate here. Histological diagnosis verbatim from surgical pathology report.

TEST RESULT INTERPRETATION

Summarily describe clinically relevant molecular biomarkers detected and any methodological information that could impact the clinician's understanding of the results or subsequent decision making here. Refer clinician to Detailed Interpretation for additional details. Include biomarker-related therapeutic information and PMIDs as appropriate.

Include a similar summary of genomic signature test information here when available.

PERTINENT NEGATIVES

State specifically if these assays did not identify any other clinically relevant molecular alterations. Call out specific pertinent negatives for the diagnosis / condition.

CLINICAL CORRELATION

Include a prominent statement that clinical correlation of these results in the patient is required and findings are a snapshot based on currently available information, therefore subject to change.

CLINICAL TRIALS (Optional section)

State if biomarker results qualify patient for clinical trials. Optional location to list the trials; lab may choose to place information in a dedicated section further in the report.

DETAILED INTERPRETATION

SPECIFIC VARIANT IDENTIFIED

BACKGROUND

Succinct background on variant and known role in oncogenesis for disease with PMIDs. Content should be written for expert use with sufficient detail to provide report portability but with the understanding that there are multiple consumers of the report (e.g., non-oncologist clinicians, community practice providers, patients). Consider having a subsection for non-oncologists, community practice providers, and patients if needed.

VARIANT PREVALENCE

If prevalence is unknown, then state that it is unknown, with clarification when necessary. If prevalence in patient's demographic is unknown, state known prevalence(s) with comment that prevalence in patient's demographic is currently unknown.

VARIANT EFFECT

Succinct description with PMIDs. Content should be written with sufficient detail to provide report portability but with the understanding that there are multiple consumers of the report (e.g., non-oncologist clinicians, community practice providers, patients).

PRACTICE GUIDELINES

Citation of relevant practice guidelines; include both evidence-based and consensus-based peer-reviewed guidelines as appropriate.

THERAPEUTIC IMPLICATIONS (incorporates predictive)

VARIANTS OF UNKNOWN CLINICAL SIGNIFICANCE (VUS)

Define VUS and provide a brief explanation of why they are included in the report. Content should be written with sufficient detail to provide report portability for a molecular laboratory professional but with the understanding that there are multiple consumers of the report (e.g., non-oncologist clinicians, community practice providers, patients).

Sample language: The variant(s) below were detected in this sample. The significance of these variant(s) has not been adequately characterized in the scientific literature at the time of this report and/or the context makes the significance of these variant(s) unclear. They are included here in the event that they become clinically meaningful in the future.

VUS DETECTED: Provide list of VUS detected. If no VUS detected, report "none detected."

CLINICAL TRIALS (Section is optional or could be included as an appendix)

Specific variant that	CLINICAL TRIALS MATCHED FOR VARIANT AND DISEASE
qualifies the patient for	If provided, favor providing open trials and/or trials that patient has a reasonable
the trial	expectation of being able to take part in (e.g., geographic location, etc.).
	CLINICAL TRIALS MATCHED FOR VARIANT ONLY
	If provided, favor providing open trials and/or trials that patient has a reasonable
	expectation of being able to take part in (e.g., geographic location, etc.).
Include a Clinical Trials Dis	sclaimer

Sample language: Availability of clinical trials depends on many factors. Whether any specific trial is appropriate for an individual patient should be discussed with the care team.

TEST DESCRIPTION

Assay performance characteristics should be listed here. This should include, but is not limited to, relevant preanalytical, analytical, clinical, demographic, interpretive, and reporting components that can affect result interpretation by molecular laboratory professionals, pathologists, and clinicians. Definitions and/or calculations should be provided as appropriate. Content should be written with sufficient detail to provide report portability for a molecular laboratory professional but with the understanding that there are multiple consumers of the report (e.g., non-oncologist clinicians, community practice providers, patients).

Information on areas of genomic coverage can be listed or provided either as a link out or upon request.

TEST LIMITATIONS

Assay limitations that can affect result interpretation should be listed here.

CPT CODING

Optional section.

TESTING LABORATORY

Contact information for the testing laboratory. Specific content may be subject to accreditation and/or regulatory requirements.

