# UROAMP

## Comprehensive Genomic Profiling Report

#### Urinary Comprehensive Genomic Profiling Test for Urothelial Cancer

#### PATIENT

Name: Sample Patient DOB: 1963-03-29 Age & Gender: 60, Male MRN: GWO117 Collection Date: 2022-10-20 Received Date: 2022-10-22 Report Date: 2022-11-03

#### PHYSICIAN

Name: Sample Physician Account: Sample Clinic Practice Name: Sample Clinic Phone: (415)555-0250 Fax: (415) 555-0255 Address: 123 Genomics Blvd., Diagnostics, CA 94127

Patient ID:

### **Report Highlights**

- Risk factors for BCG resistance; gene identified associated with BCG response failure.
- Genes identified a higher risk of tumor invasion/metastatic disease and/or recurrence.
- There is an FDA-approved drug for mutation identified. See the Drug Therapy Associated Findings section.

Drug Therapy Associated Findings				
Genomic Findings	FDA-Approved Therapies			
FGFR3	BALVERSA® (erdafitinib)			

Prognostic Findings				
Genomic Findings	Prognostic Considerations			
TP53	10x increased risk for high-grade cancer and 6x increased risk for tumor invasion. Considerations for repeat biopsy, more frequent surveillance, and continued BCG therapy, if clinically appropriate.			
ARID1A	Increased risk of BCG refractory cancer.			

Treatment decisions should not be made on this information alone and should also leverage a complete assessment of clinical history, pathology risk factors, treating physician judgment and patient preferences.

Mutated Genes Identified						
Gene	Description	Mutation Fraction	Variant Loci (Protein Change)	References		
ARID1A	In multiple studies, ARID1A is associated with worse prog- nosis, higher grade, and diagnosis at later stage. ARID1A has also been associated with a lack of response to BCG therapy.	26%	Chr1:27087458 (Q678*)	2		
FGFR3	Mutations in FGFR3 are most common in papillary tumors and less frequent in CIS and invasive cancers. Erdafitinib (Balversa) is an FDA-approved drug indicated in patients with later stage tumors and FGFR3 mutations.	24%	Chr4:1803568 (S249C)	2		
ТР53	TP53 mutations are more common in clinically and histologi- cally-advanced disease. Literature has found that TP53 muta- tions are an unfavorable prognostic factor. Alterations in this gene are associated with the development of urothelial carci- noma or recurrence. In a UroAmp validation study, presence of TP53 mutations were associated with a 9x increased risk for HG cancer and 6.6x increased risk for invasive carcinoma.	20%	Chr17:7578534 (K132N)	3		



Report Status: **FINAL** Pages 2/2 Client ID:



#### **Test Validation and Studies**

Next-generation DNA sequencing analysis was performed using the UroAmp assay to assess over 250,000 locations in the genome, across 60 recurrent urothelial cancer genes. The UroAmp variant caller has a validated sensitivity of 98% and specificity of 100%.<sup>1</sup>



For additional validation and studies scan or visit convergentgenomics.com/validation

#### References

- 1 Bicocca, V. et al., Urinary comprehensive genomic profiling correlates urothelial carcinoma mutations with clinical risk and efficacy of intervention. J. Clin. Med. 2022, 11(19), 5827.
- 2 Pietzak EJ et al., Next-generation sequencing of nonmuscle invasive bladder cancer reveals potential biomarkers and rational therapeutic targets. Eur. Urol 2017 Dec;72(6):952-959.
- 3 Eich, ML. et al., Incidence and distribution of UroSEEK gene panel in a multi-institutional cohort of bladder urothelial carcinoma. Mod Pathol 32, 1544–1550 (2019).

E-Sign on: 10/21/2022

By: Brad Jensen, MD, Laboratory Director

Release on: 10/21/2022

By:

DocuSign Envelope ID: E7BFA29C-E15D-41 B8-BE67-B707FE0ACCA8



Convergent Genomics 425 Eccles Avenue South San Francisco, CA 94080 CLIA #05D2220749 CA License CLF-90003755 650-677-2997

This test was developed and its performance characteristics were determined by Convergent Genomics. The Lab is regulated under CLIA88 as quaified to perform high-complexity clinical testing. This test has not been cleared nor approved by the FDA; FDA clearance or approval is not required. This test is used for clinical purposes and clinical correlation of its results are recommended. A copy of this form shall be as valid as the original.

© 2021 - 2022 Convergent Genomics, Inc. All rights reserved. The Convergent Genomics and UroAmp names and logos are trademarks or registered trademarks of Convergent Genomics. Form Version: 10/17/22 Generated on 11/03/2022, 4:44:01 pm