

# Technical Product Report

*For Research Use Only, Not for use in Diagnostic Procedures*

Product Name: Seraseq Solid Tumor Mutation Mix-II (AF4) LC

Material No: 0710-0070 Batch No: 10186668

Material Description: The Seraseq Solid Tumor Mutation Mix-II is a multiplexed mixture of actionable biosynthetic DNA targets precisely blended with a single, well-characterized genomic background, offered at 4% allelic ratio.

Date of Manufacture: 29-Mar-16 Expiration Date: 29-Mar-19

Test Method: Allele specific digital PCR

| #  | Gene   | Mutation (COSMIC ID) | Variant Allele Frequency by dPCR |
|----|--------|----------------------|----------------------------------|
| 1  | MPL    | COSM 18918           | 3.92                             |
| 2  | NRAS   | COSM 584             | 3.93                             |
| 3  | IDH1   | COSM 28747           | 3.61                             |
| 4  | CTNNB  | COSM 5664            | 3.68                             |
| 5  | FOXL2  | COSM 33661           | 3.89                             |
| 6  | PIK3CA | COSM 763             | 3.42                             |
| 7  | PIK3CA | COSM 775             | 3.67                             |
| 8  | PIK3CA | COSM 12464           | 3.46                             |
| 9  | FGFR3  | COSM 715             | 3.48                             |
| 10 | PDGFRA | COSM 28053           | 4.17                             |
| 11 | PDGFRA | COSM 736             | 4.00                             |
| 12 | KIT    | COSM 1314            | 3.70                             |
| 13 | APC    | COSM 13127           | 3.68                             |
| 14 | APC    | COSM 18561           | 3.68                             |
| 15 | NPM1   | COSM 17559           | 3.03                             |
| 16 | EGFR   | EGFR_6225            | 3.96                             |
| 17 | EGFR   | COSM 12378           | 3.83                             |
| 18 | EGFR   | COSM 6240            | 3.83                             |
| 19 | EGFR   | COSM 6224            | 3.81                             |
| 20 | BRAF   | COSM 476             | 3.62                             |
| 21 | JAK2   | COSM 12600           | 3.55                             |
| 22 | GNAQ   | COSM 28758           | 3.93                             |
| 23 | RET    | COSM 965             | 3.91                             |

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| #  | Gene      | Mutation (COSMIC ID)   | Variant Allele Frequency by dPCR |
|----|-----------|------------------------|----------------------------------|
| 24 | PTEN      | COSM 5809/30622        | 3.40                             |
| 25 | PTEN      | COSM 4986              | 3.40                             |
| 26 | ATM       | COSM 21924             | 3.84                             |
| 27 | KRAS      | COSM 521               | 3.30                             |
| 28 | FLT3      | COSM 783               | 3.79                             |
| 29 | AKT1      | COSM 33765             | 3.49                             |
| 30 | TP53      | COSM 10660             | 4.01                             |
| 31 | TP53      | COSM 10662             | 4.01                             |
| 32 | TP53      | COSM 6530              | 4.01                             |
| 33 | TP53      | COSM 10648             | 3.74                             |
| 34 | TP53      | COSM 18610             | Not Tested                       |
| 35 | ERBB2     | COSM 682/20959         | 3.41                             |
| 36 | SMAD4     | COSM 14105             | 3.83                             |
| 37 | GNA11     | COSM 52969             | 3.78                             |
| 38 | GNAS      | COSM 27887             | 3.76                             |
| 39 | NCOA4_RET | NA- Structural variant | 3.81                             |
| 40 | TPR_ALK   | NA- Structural variant | 3.52                             |

Approval:

Catherine Huang  
Prepared By

04 May 18  
Date