

Technical Product Report

For Research Use Only; Not for use in Diagnostic Procedures

Product Description: Seraseq[®] Myeloid Mutation DNA Mix

Material Number: 0710-0408 Batch Number: 10436446

Material Description: A multiplexed mixture of biosynthetic DNA targets with clinically relevant mutations precisely blended with a single, well-characterized genomic background at 15%, 10% or 5% allelic ratio

Nominal Concentration: 15 ng/μL

Avg Measured Concentration: 17.5 ng/μL
(Qubit dsDNA BR kit)

Fill Volume: 25 μL

Date of Manufacture: 23 JUL 2019 Expiration Date: 23 JUL 2021

Test Methods: Digital PCR (dPCR) using BioRad QX200[™] Droplet Digital[™] PCR System
NGS using ArcherDx VariantPlex[®] Core Myeloid Kit, on ILMN MiSeq NGS System

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Gene ID	HGVS	Protein	COSMIC ID	VAF Target (%)	VAF by dPCR (%)	VAF by NGS (%)
CALR	c.1099_1150del	p.L367fs*46	1738055	5	4.9	6.1
CSF3R	c.1853C>T	p.T618I	1737962	5	5.0	4.9
FLT3	c.1759_1800dup	p.N600_L601_insNEYVDFREYEYD	NA	5	4.9	2.8
IDH1	c.394C>T	p.R132C	28747	5	5.3	4.8
JAK2	c.1849G>T	p.V617F	12600	5	5.2	5.9
MPL	c.1544G>T	p.W515L	18918	5	4.6	3.8
NPM1	c.860_863dup	p.W288fs*12	17559	5	4.3	2.1
SF3B1	c.2098A>G	p.K700E	84677	5	4.3	4.1
SF3B1	c.1998G>T	p.K666N	131557	5	4.3	3.8
SRSF2	c.284_307del	p.P95_R102del	146289	5	4.7	5.9
ABL1	c.944C>T	p.T315I	12560	10	9.5	10.4
ASXL1	c.1900_1922del	p.E635fs*15	36165	10	8.2	9.0
ASXL1	c.1934dup	p.G646fs*12	34210	10	8.0	7.6
BRAF	c.1799T>A	p.V600E	476	10	10.1	11.2
CBL	c.1139T>C	p.L380P	34055	10	8.9	10.8
CBL	c.1259G>A	p.R420Q	34077	10	8.9	11.9
FLT3	c.1806_1807insGGGGCTTTCAGAGAATATGAA TATGATCTCAAA)	K602_W603insGAFRE YEYDLK	NA	10	8.5	5.3
FLT3	c.2503G>T	p.D835Y	783	10	9.6	9.9
JAK2	c.1624_1629del	p.N542_E543del	24440	10	11.0	8.1
MYD88	c.794T>C	p.L265P	85940	10	8.9	Not assayed
U2AF1	c.101C>T	p.S34F	166866	10	8.1	8.8
CEBPA	c.68dup	p.H24fs*84	18922	15	NA*	10.9
CEBPA	c.937_939dup	p.K313_V314insK	18099	15	NA*	9.9

*Not assessed by dPCR, but confirmed by NGS (ArcherDx VariantPlex Core Myeloid)

Approval:

Prepared By Catherine Huang

Date 05 SEP 2019