Technical Product Report

For Research Use Only; Not for use in Diagnostic Procedures

Product Description: Seraseq™ Myeloid Mutation DNA Mix

Material No: 0710-0408 Batch No: 10355183

Material Description: Seraseq Myeloid Mutation DNA Mix is 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

Date of Manufacture: 25-Jun-18 Expiration Date: 25-Jun-20

Concentration: 15 ng/µL Fill Volume: 25 µL

Test Method: Digital PCR (dPCR) using BioRad QX200™ Droplet Digital™ PCR System
NGS using ArcherDx VariantPlex® Core Myeloid Kit, for Illumina

Gene ID	HGVS	Prot	COSMIC ID	VAF Target	VAF by dPCR	VAF by NGS
CALR	c.1092_1143del52	p.L367fs*46	1738055	5%	4.80%	7.28%
CSF3R	c.1853C>T	p.T618I	1737962	5%	5.60%	7.10%
FLT3	c.1759_1800dup		NA	5%	5.00%	3.81%
IDH1	c.394C>T	p.R132C	28747	5%	5.27%	8.24%
JAK2	c.1849G>T	p.V617F	12600	5%	4.50%	7.80%
MPL	c.1544G>T	p.W515L	18918	5%	5.40%	7.17%
NPM1	c.863_864insTCTG	p.W288fs*12	17559	5%	4.77%	4.13%
SF3B1	c.2098A>G	p.K700E	84677	5%	4.90%	8.09%
SF3B1	c.1998G>T	p.K666N	131557	5%	4.90%	7.96%
SRSF2	c.284_307del24	p.P95_R102del	146289	5%	4.43%	7.40%
ABL1	c.944C>T	p.T315I	12560	10%	9.30%	12.93%
ASXL1	c.1900_1922del23	p.E635fs*15	36165	10%	9.30%	11.54%
ASXL1	c.1934_1935insG	p.G646fs*12	34210	10%	10.30%	8.59%
BRAF	c.1799T>A	p.V600E	476	10%	8.97%	15.45%
CBL	c.1139T>C	p.L380P	34055	10%	12.77%	20.35%
CBL	c.1259G>A	p.R420Q	34077	10%	11.97%	18.26%
FLT3	duplication of chr13:28,608,250-28,608,277 (hg19)		NA	10%	7.35%	7.52%
FLT3	c.2503G>T	p.D835Y	783	10%	8.50%	10.80%
JAK2	c.1624_1629delAATGAA	p.N542_E543del	24440	10%	9.80%	15.74%
MYD88	c.794T>C	p.L265P	85940	10%	8.67%	Not assayed in panel
U2AF1	c.101C>T	p.S34F	166866	10%	7.93%	12.02%
CEBPA	c.68_69insC	p.H24fs*84	18922	15%	NA*	12.37%
CEBPA	c.939_940insAAG	p.K313_V314insK	18099	15%	NA*	11.39%

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

Approval:

Catherine Huang 7/13/2018

Prepared By Date