

KIT 36673524 3 01 52

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Results are due no later than midnight, Central Time:

July 05, 2023

CAP # 1952901 - 22 SEQ # 01

Products:NGSHM
University of Kansas Health System
Sarah Dillon
TEL# 1-913-588-1710 FAX#

Next-Generation Sequencing (NGS) - Hematologic Malignancies Survey Result Form

Important

You must submit results online. Emailed, faxed, or mailed results are no longer accepted.

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Variant Master List

â€ The codes listed in the Variant Code column are to be used in the Results section to indicate the variants that your laboratory detects.
â€ Select the "(Gene) not tested" bubble if your laboratory does not test for ANY variants in a given gene. **Laboratories selecting this response should not select the individual "Variants Not Tested" result option for that gene.**
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Gene	Variant	Genomic Description (hg19)	Variant Code	Variants Not Tested
ASXL1 (NM_015338.5) 005 <input type="checkbox"/> (2139) ASXL1 not tested	ASXL1 c.1773C>A p.Y591*	chr20:31022288C>A	3893	<input checked="" type="checkbox"/> (3894)
	ASXL1 c.1954G>A p.G652S	chr20:31022469G>A	1601	<input type="checkbox"/> (1703)
	ASXL1 c.2035G>T p.G679*	chr20:31022550G>T	1602	<input type="checkbox"/> (1704)
	ASXL1 c.2077C>T p.R693*	chr20:31022592C>T	1603	<input type="checkbox"/> (1705)
	ASXL1 c.2324delT p.L775*	chr20:31022839delT	1604	<input type="checkbox"/> (1706)
	ASXL1 c.2893C>T p.R965*	chr20:31023408C>T	1605	<input type="checkbox"/> (1707)
ABL1 (NM_005157.6) 065 <input type="checkbox"/> (5546) ABL1 not tested	ABL1 c.763G>A p.E255K	chr9:133738363G>A	5734	<input type="checkbox"/> (5735)
	ABL1 c.944C>T p.T315I	chr9:133748283C>T	5736	<input type="checkbox"/> (5737)
	ABL1 c.943A>G p.T315A	chr9:133748282A>G	5738	<input type="checkbox"/> (5739)
	ABL1 c.951C>G p.F317L	chr9:133748290C>G	5740	<input type="checkbox"/> (5741)
	ABL1 c.949T>G p.F317V	chr9:133748288T>G	5742	<input type="checkbox"/> (5743)
	ABL1 c.1075T>A p.F359I	chr9:133748414T>A	5744	<input type="checkbox"/> (5745)
BRAF (NM_004333.5) 125 <input type="checkbox"/> (2140) BRAF not tested	BRAF c.1781A>G p.D594G	chr7:140453154T>C	1817	<input type="checkbox"/> (1905)
	BRAF c.1798G>A p.V600M	chr7:140453137C>T	1820	<input type="checkbox"/> (1908)
	BRAF c.1798_1799delGTinsAA p.V600K	chr7:140453136_140453137delACinsTT	3381	<input type="checkbox"/> (3409)
	BRAF c.1798_1799delGTinsAG p.V600R	chr7:140453136_140453137delACinsCT	2915	<input type="checkbox"/> (3018)
	BRAF c.1799T>A p.V600E	chr7:140453136A>T	1611	<input type="checkbox"/> (1713)
	BRAF c.1803A>T p.K601N	chr7:140453132T>A	2916	<input type="checkbox"/> (3019)

Customer Contact Center 800-323-4040 or 847-832-7000
(Country code: 1) Option 1

APN1

52309

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Gene	Variant	Genomic Description (hg19)	Variant Code	Variants Not Tested
BTK (NM_000061.3) 005 <input checked="" type="checkbox"/> (5547) BTK not tested	BTK c.946A>G p.T316A	chrX:100613633T>C	5746	<input checked="" type="checkbox"/> (5747)
	BTK c.1421C>T p.T474I	chrX:100611185G>A	5748	<input type="checkbox"/> (5749)
	BTK c.1421C>G p.T474S	chrX:100611185G>C	5750	<input type="checkbox"/> (5751)
	BTK c.1441T>C p.C481R	chrX:100611165A>G	5752	<input type="checkbox"/> (5753)
	BTK c.1442G>C p.C481S	chrX:100611164C>G	5754	<input type="checkbox"/> (5755)
	BTK c.1442G>A p.C481Y	chrX:100611164C>T	5756	<input type="checkbox"/> (5757)
CDKN2A (NM_000077.4) 065 <input type="checkbox"/> (2901) CDKN2A not tested	CDKN2A c.9_32del p.A4_P11del	chr9:21974795_21974818del	5758	<input type="checkbox"/> (5759)
	CDKN2A c.128G>T p.S43I	chr9:21974699C>A	5760	<input type="checkbox"/> (5761)
	CDKN2A c.172C>T p.R58*	chr9:21971186G>A	2919	<input type="checkbox"/> (3022)
	CDKN2A c.213delinsGGTCG p.N71fs	chr9:21971145delinsCGACC	5762	<input type="checkbox"/> (5763)
	CDKN2A c.238C>T p.R80*	chr9:21971120G>A	4482	<input type="checkbox"/> (4483)
	CDKN2A c.330G>A p.W110*	chr9:21971028C>T	5764	<input type="checkbox"/> (5765)
CEBPA (NM_004364.4) 125 <input type="checkbox"/> (2142) CEBPA not tested	CEBPA c.68delC p.P23fs	chr19:33793258delG	1618	<input type="checkbox"/> (1720)
	CEBPA c.68dupC p.H24fs	chr19:33793258dupG	1619	<input type="checkbox"/> (1721)
	CEBPA c.247delC p.Q83fs	chr19:33793075delG	1620	<input type="checkbox"/> (1722)
	CEBPA c.917_934delGCAACGTGGAGACGCAGC p.R306_Q311del	chr19:33792392_33792409delGCTGCGTCTCCACGTTGC	5034	<input type="checkbox"/> (5035)
	CEBPA c.937_939dupAAG p.K313dup	chr19:33792384_33792386dupCTT	1622	<input type="checkbox"/> (1724)
	CEBPA c.949_950insGTC p.E316_L317insR	chr19:33792372_33792373insACG	1623	<input type="checkbox"/> (1725)
CXCR4 (NM_001008540.2) 185 <input checked="" type="checkbox"/> (5033) CXCR4 not tested	CXCR4 c.1012C>T p.R338*	chr2:136872498G>A	5048	<input type="checkbox"/> (5049)
	CXCR4 c.1012C>G p.R338G	chr2:136872498G>C	5050	<input type="checkbox"/> (5051)
	CXCR4 c.1024dupT p.S342fs	chr2:136872487dupA	5052	<input type="checkbox"/> (5053)
	CXCR4 c.1025C>A p.S342*	chr2:136872485G>T	5054	<input type="checkbox"/> (5055)
	CXCR4 c.1026_1029delATCT p.S343fs	chr2:136872481_136872484delAGAT	5056	<input type="checkbox"/> (5057)
	CXCR4 c.1043_1052delCTGAGTCTTCinsGT p.S348fs	chr2:136872458_136872467delGAAGACTCAGinsAC	5058	<input type="checkbox"/> (5059)

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APN2

55326

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Variant Master List, cont'd

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DNMT3A (NM_022552.4) 005 <input type="checkbox"/> (2143) DNMT3A not tested	DNMT3A c.2141C>G p.S714C	chr2:25463541G>C	1625	<input checked="" type="checkbox"/> (1727)
	DNMT3A c.2207G>A p.R736H	chr2:25463286C>T	1624	<input type="checkbox"/> (1726)
	DNMT3A c.2644C>A p.R882S	chr2:25457243G>T	1626	<input type="checkbox"/> (1728)
	DNMT3A c.2644C>T p.R882C	chr2:25457243G>A	1627	<input type="checkbox"/> (1729)
	DNMT3A c.2645G>A p.R882H	chr2:25457242C>T	1628	<input type="checkbox"/> (1730)
	DNMT3A c.2645G>C p.R882P	chr2:25457242C>G	1629	<input type="checkbox"/> (1731)
IDH1 (NM_005896.3) 065 <input type="checkbox"/> (2145) IDH1 not tested	IDH1 c.392_396delGTCGinsTCCTG p.G131_R132delinsVL	chr2:209113111_209113115delACGACinsCAGGA	4584	<input type="checkbox"/> (4585)
	IDH1 c.394C>A p.R132S	chr2:209113113G>T	1637	<input type="checkbox"/> (1739)
	IDH1 c.394C>G p.R132G	chr2:209113113G>C	1638	<input type="checkbox"/> (1740)
	IDH1 c.394C>T p.R132C	chr2:209113113G>A	1639	<input type="checkbox"/> (1741)
	IDH1 c.395G>A p.R132H	chr2:209113112C>T	1853	<input type="checkbox"/> (1941)
	IDH1 c.395G>T p.R132L	chr2:209113112C>A	1641	<input type="checkbox"/> (1743)
IDH2 (NM_002168.2) 125 <input type="checkbox"/> (2146) IDH2 not tested	IDH2 c.418C>G p.R140G	chr15:90631935G>C	5766	<input type="checkbox"/> (5767)
	IDH2 c.419G>A p.R140Q	chr15:90631934C>T	1643	<input type="checkbox"/> (1745)
	IDH2 c.419G>T p.R140L	chr15:90631934C>A	3437	<input type="checkbox"/> (3438)
	IDH2 c.514A>G p.R172G	chr15:90631839T>C	1644	<input type="checkbox"/> (1746)
	IDH2 c.514A>T p.R172W	chr15:90631839T>A	3390	<input type="checkbox"/> (3418)
	IDH2 c.515G>T p.R172M	chr15:90631838C>A	3392	<input type="checkbox"/> (3420)
JAK2 (NM_004972.3) 185 <input type="checkbox"/> (2147) JAK2 not tested	JAK2 c.1611_1616delTCACAA p.F537_K539delinsL	chr9:5070022_5070027delTCACAA	1648	<input type="checkbox"/> (1750)
	JAK2 c.1622_1627delGAAATG p.R541_E543delinsK	chr9:5070033_5070038delGAAATG	1649	<input type="checkbox"/> (1751)
	JAK2 c.1624_1629delAATGAA p.N542_E543del	chr9:5070035_5070040delAATGAA	1650	<input type="checkbox"/> (1752)
	JAK2 c.1627_1632delGAAGAT p.E543_D544del	chr9:5070038_5070043delGAAGAT	1651	<input type="checkbox"/> (1753)
	JAK2 c.1849G>T p.V617F	chr9:5073770G>T	1652	<input type="checkbox"/> (1754)
	JAK2 c.1852T>C p.C618R	chr9:5073773T>C	1653	<input type="checkbox"/> (1755)

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KIT (NM_000222.2) 005 <input type="checkbox"/> (2148) KIT not tested	KIT c.251C>T p.T84M	chr4:55561861C>T	1654	<input checked="" type="checkbox"/> (1756)
	KIT c.1669T>C p.W557R	chr4:55593603T>C	1655	<input type="checkbox"/> (1757)
	KIT c.1961T>C p.V654A	chr4:55594258T>C	1858	<input type="checkbox"/> (1946)
	KIT c.2447A>T p.D816V	chr4:55599321A>T	1656	<input type="checkbox"/> (1758)
	KIT c.2466T>A p.N822K	chr4:55599340T>A	1657	<input type="checkbox"/> (1759)
	KIT c.2663G>A p.R888Q	chr4:55602953G>A	1659	<input type="checkbox"/> (1761)
KRAS (NM_004985.3) 065 <input type="checkbox"/> (2163) KRAS not tested	KRAS c.34G>A p.G12S	chr12:25398285C>T	2962	<input type="checkbox"/> (1950)
	KRAS c.35G>A p.G12D	chr12:25398284C>T	1864	<input type="checkbox"/> (1952)
	KRAS c.34_36delinsTGG p.G12W	chr12:25398283_25398285delinsCCA	5768	<input type="checkbox"/> (5769)
	KRAS c.183A>C p.Q61H	chr12:25380275T>G	2965	<input type="checkbox"/> (3065)
	KRAS c.351A>T p.K117N	chr12:25378647T>A	5770	<input type="checkbox"/> (5771)
	KRAS c.38_39delGTCinsAA p.G13E	chr12:25398280_25398281delGTCinsTT	3442	<input type="checkbox"/> (3446)
MYD88 (NM_002468.4) 125 <input type="checkbox"/> (2150) MYD88 not tested	MYD88 c.436G>A p.A146T	chr3:38181423G>A	1666	<input type="checkbox"/> (1768)
	MYD88 c.517C>T p.R173C	chr3:38181893C>T	1667	<input type="checkbox"/> (1769)
	MYD88 c.656C>G p.S219C	chr3:38182032C>G	1668	<input type="checkbox"/> (1770)
	MYD88 c.695T>C p.M232T	chr3:38182259T>C	1669	<input type="checkbox"/> (1771)
	MYD88 c.728G>A p.S243N	chr3:38182292G>A	1670	<input type="checkbox"/> (1772)
	MYD88 c.794T>C p.L265P	chr3:38182641T>C	1671	<input type="checkbox"/> (1773)
NRAS (NM_002524.4) 185 <input type="checkbox"/> (2165) NRAS not tested	NRAS c.34_36delGGTinsTGG p.G12W	chr1:115258746_115258748delACCinsCCA	4241	<input type="checkbox"/> (4242)
	NRAS c.35G>A p.G12D	chr1:115258747C>T	2969	<input type="checkbox"/> (3066)
	NRAS c.38_39delGTinsAA p.G13E	chr1:115258743_115258744delACinsTT	5060	<input type="checkbox"/> (5061)
	NRAS c.182A>T p.Q61L	chr1:115256529T>A	3399	<input type="checkbox"/> (4260)
	NRAS c.351G>T p.K117N	chr1:115252289C>A	5772	<input type="checkbox"/> (5773)
	NRAS c.436G>A p.A146T	chr1:115252204C>T	3896	<input type="checkbox"/> (3897)

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NOTCH1 (NM_017617.3) 005 <input type="checkbox"/> (2151) NOTCH1 not tested	NOTCH1 c.4793G>C p.R1598P	chr9:139399350C>G	1672	<input type="checkbox"/> (1774)
	NOTCH1 c.4799T>C p.L1600P	chr9:139399344A>G	1673	<input type="checkbox"/> (1775)
	NOTCH1 c.5015G>A p.R1672H	chr9:139399128C>T	1674	<input type="checkbox"/> (1776)
	NOTCH1 c.5033T>C p.L1678P	chr9:139397768A>G	1675	<input type="checkbox"/> (1777)
	NOTCH1 c.7375C>T p.Q2459*	chr9:139390816G>A	1676	<input type="checkbox"/> (1778)
	NOTCH1 c.7401delinsTTCACA p.L2468fs	chr9:139390790delinsTGTGAA	5774	<input type="checkbox"/> (5775)
RUNX1 (NM_001754.4) 065 <input type="checkbox"/> (4261) RUNX1 not tested	RUNX1 c.319C>T p.R107C	chr21:36259172G>A	4262	<input type="checkbox"/> (4263)
	RUNX1 c.422C>T p.S141L	chr21:36252940G>A	4264	<input type="checkbox"/> (4265)
	RUNX1 c.485G>A p.R162K	chr21:36252877C>T	4266	<input type="checkbox"/> (4267)
	RUNX1 c.497G>A p.R166Q	chr21:36252865C>T	4268	<input type="checkbox"/> (4269)
	RUNX1 c.593A>G p.D198G	chr21:36231791T>C	4270	<input type="checkbox"/> (4271)
	RUNX1 c.597dupG p.P200fs	chr21:36231789dupC	5198	<input type="checkbox"/> (5199)
SF3B1 (NM_012433.2) 125 <input type="checkbox"/> (2153) SF3B1 not tested	SF3B1 c.1866G>T p.E622D	chr2:198267491C>A	1684	<input type="checkbox"/> (1786)
	SF3B1 c.1874G>A p.R625H	chr2:198267483C>T	1685	<input type="checkbox"/> (1787)
	SF3B1 c.1986C>G p.H662Q	chr2:198267371G>C	1686	<input type="checkbox"/> (1788)
	SF3B1 c.1997A>G p.K666R	chr2:198267360T>C	1687	<input type="checkbox"/> (1789)
	SF3B1 c.2098A>G p.K700E	chr2:198266834T>C	1688	<input type="checkbox"/> (1790)
	SF3B1 c.2225G>A p.G742D	chr2:198266611C>T	1689	<input type="checkbox"/> (1791)
STAG2 (NM_001042751.1) 185 <input type="checkbox"/> (4729) STAG2 not tested	STAG2 c.577G>A p.D193N	chrX:123179128G>A	4755	<input type="checkbox"/> (4756)
	STAG2 c.646C>T p.R216*	chrX:123179197C>T	4757	<input type="checkbox"/> (4758)
	STAG2 c.775C>T p.R259*	chrX:123181311C>T	4759	<input type="checkbox"/> (4760)
	STAG2 c.1544_1547delATAG p.D515fs	chrX:123195630_123195633delATAG	4761	<input type="checkbox"/> (4762)
	STAG2 c.1545_1546delTA p.D515fs	chrX:123195631_123195632delTA	4763	<input type="checkbox"/> (4764)
	STAG2 c.1919_1920delGT p.C640*	chrX:123197795_123197796delGT	5064	<input type="checkbox"/> (5065)

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TET2 (NM_001127208.2) 005 <input type="checkbox"/> (2154) TET2 not tested	TET2 c.679delG p.E227fs	chr4:106155778delG	3898	<input checked="" type="checkbox"/> (3899)
	TET2 c.1648C>T p.R550*	chr4:106156747C>T	1691	<input type="checkbox"/> (1793)
	TET2 c.2746C>T p.Q916*	chr4:106157845C>T	1692	<input type="checkbox"/> (1794)
	TET2 c.4138C>T p.H1380Y	chr4:106190860C>T	1693	<input type="checkbox"/> (1795)
	TET2 c.5219T>A p.L1740*	chr4:106196886T>A	1694	<input type="checkbox"/> (1796)
	TET2 c.5618T>C p.I1873T	chr4:106197285T>C	1695	<input type="checkbox"/> (1797)
TNFRSF14 (NM_003820.2) 065 <input checked="" type="checkbox"/> (5548) TNFRSF14 not tested	TNFRSF14 c.35G>A p.W12*	chr1:2488138G>A	5776	<input type="checkbox"/> (5777)
	TNFRSF14 c.76T>G p.Y26D	chr1:2489171T>G	5778	<input type="checkbox"/> (5779)
	TNFRSF14 c.125G>A p.C42Y	chr1:2489220G>A	5780	<input type="checkbox"/> (5781)
	TNFRSF14 c.136G>A p.E46K	chr1:2489231G>A	5782	<input type="checkbox"/> (5783)
	TNFRSF14 c.335C>T p.S112F	chr1:2491292C>T	5784	<input type="checkbox"/> (5785)
	TNFRSF14 c.345_346delGA p.N116fs	chr1:2491302_2491303delGA	5786	<input type="checkbox"/> (5787)
U2AF1 (NM_006758.2) 125 <input type="checkbox"/> (4730) U2AF1 not tested	U2AF1 c.101C>T p.S34F	chr21:44524456G>A	4288	<input type="checkbox"/> (4289)
	U2AF1 c.101C>A p.S34Y	chr21:44524456G>T	4290	<input type="checkbox"/> (4291)
	U2AF1 c.104G>T p.R35L	chr21:44524453C>A	4292	<input type="checkbox"/> (4293)
	U2AF1 c.467G>A p.R156H	chr21:44514780C>T	4294	<input type="checkbox"/> (4295)
	U2AF1 c.470A>C p.Q157P	chr21:44514777T>G	4296	<input type="checkbox"/> (4297)
	U2AF1 c.470A>G p.Q157R	chr21:44514777T>C	4298	<input type="checkbox"/> (4299)

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Results

NGSHM-01

020 ☐ 11010 ☐ 103 None of the listed variants in the Variant Master List are detectedException Code ☐ 33

If variants are detected, enter the variant code from the Variant Master List, found on the result form, for each variant.

Variant Code 1:	⁰³⁰ 3893	Total coverage depth at Variant 1 position:	⁰⁴⁰ 503	Variant 1 allele fraction:	⁰⁵⁰ 13.3	%
Variant Code 2: (if applicable)	⁰⁶⁰ 1628	Total coverage depth at Variant 2 position:	⁰⁷⁰ 1421	Variant 2 allele fraction:	⁰⁸⁰ 9.4	%
Variant Code 3: (if applicable)	⁰⁹⁰ 1652	Total coverage depth at Variant 3 position:	¹⁰⁰ 438	Variant 3 allele fraction:	¹¹⁰ 10.3	%
Variant Code 4: (if applicable)	¹²⁰ 4288	Total coverage depth at Variant 4 position:	¹³⁰ 535	Variant 4 allele fraction:	¹⁴⁰ 25.6	%
Variant Code 5: (if applicable)	¹⁵⁰	Total coverage depth at Variant 5 position:	¹⁶⁰ _ _ _ _ _	Variant 5 allele fraction:	¹⁷⁰ _ _ _ _ . _	%
Variant Code 6: (if applicable)	¹⁸⁰	Total coverage depth at Variant 6 position:	¹⁹⁰ _ _ _ _ _	Variant 6 allele fraction:	²⁰⁰ _ _ _ _ . _	%

NGSHM-02

220 ☐ 11210 ☐ 103 None of the listed variants in the Variant Master List are detectedException Code ☐ 33

If variants are detected, enter the code from the Variant Master List, found on the result form, for each variant.

Variant Code 1:	²³⁰ 2916	Total coverage depth at Variant 1 position:	²⁴⁰ 1313	Variant 1 allele fraction:	²⁵⁰ 13.4	%
Variant Code 2: (if applicable)	²⁶⁰ 1858	Total coverage depth at Variant 2 position:	²⁷⁰ 1472	Variant 2 allele fraction:	²⁸⁰ 10.7	%
Variant Code 3: (if applicable)	²⁹⁰ 2965	Total coverage depth at Variant 3 position:	³⁰⁰ 955	Variant 3 allele fraction:	³¹⁰ 13.6	%
Variant Code 4: (if applicable)	³²⁰ 5772	Total coverage depth at Variant 4 position:	³³⁰ 1358	Variant 4 allele fraction:	³⁴⁰ 10.5	%
Variant Code 5: (if applicable)	³⁵⁰	Total coverage depth at Variant 5 position:	³⁶⁰ _ _ _ _ _	Variant 5 allele fraction:	³⁷⁰ _ _ _ _ . _	%
Variant Code 6: (if applicable)	³⁸⁰	Total coverage depth at Variant 6 position:	³⁹⁰ _ _ _ _ _	Variant 6 allele fraction:	⁴⁰⁰ _ _ _ _ . _	%

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Results, cont'd

NGSHM-03

020 ☐ 11010 ☐ 103 None of the listed variants in the Variant Master List are detectedException Code ☐ 33

If variants are detected, enter the variant code from the Variant Master List, found on the result form, for each variant.

Variant Code 1: ⁰³⁰	<input type="text" value="1637"/>	Total coverage depth at Variant 1 position: ⁰⁴⁰	<input type="text" value="440"/>	Variant 1 allele fraction: ⁰⁵⁰	<input type="text" value="10.9"/>	%
Variant Code 2: (if applicable) ⁰⁶⁰	<input type="text" value="5198"/>	Total coverage depth at Variant 2 position: ⁰⁷⁰	<input type="text" value="683"/>	Variant 2 allele fraction: ⁰⁸⁰	<input type="text" value="16.0"/>	%
Variant Code 3: (if applicable) ⁰⁹⁰	<input type="text" value="5768"/>	Total coverage depth at Variant 3 position: ¹⁰⁰	<input type="text" value="590"/>	Variant 3 allele fraction: ¹¹⁰	<input type="text" value="18.1"/>	%
Variant Code 4: (if applicable) ¹²⁰	<input type="text"/>	Total coverage depth at Variant 4 position: ¹³⁰	<input type="text" value="_____"/>	Variant 4 allele fraction: ¹⁴⁰	<input type="text" value="_____ . ____"/>	%
Variant Code 5: (if applicable) ¹⁵⁰	<input type="text"/>	Total coverage depth at Variant 5 position: ¹⁶⁰	<input type="text" value="_____"/>	Variant 5 allele fraction: ¹⁷⁰	<input type="text" value="_____ . ____"/>	%
Variant Code 6: (if applicable) ¹⁸⁰	<input type="text"/>	Total coverage depth at Variant 6 position: ¹⁹⁰	<input type="text" value="_____"/>	Variant 6 allele fraction: ²⁰⁰	<input type="text" value="_____ . ____"/>	%

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Assay Characteristics

1. Using the NGS Platform Master List on the kit instructions, indicate which platform is used in your laboratory for somatic variant detection for this assay:

010 2923

2. Which categories of somatic variants are detected by the assay described in Question #1? (Select all that apply.)

- 020 ☒ 274 Single nucleotide variants
☒ 275 Small insertions and deletions (eg, < 50 bp)
☐ 557 Copy number variations (CNVs)

3. What is the lower limit of detection for your assay in terms of somatic allele percentage? If the limit of detection varies depending on the gene and region, please indicate the highest allele percentage.

Variant Type	Single nucleotide variants	Small insertions and deletions
Lower limit of detection	050 5.0 %	060 5.0 %

4. Is a sensitivity control at or near the lower limit of detection of the assay included in each run?

- 070 ☒ 179 Yes
☐ 180 No

5. Which sequencing strategies are used by your laboratory for somatic variant detection in hematologic malignancies for the single assay being described in this program? (Select all that apply.)

- 080 ☐ 223 Exome sequencing
☐ 224 Genome sequencing
☐ 225 RNA sequencing
☒ 367 Targeted sequencing of cancer genes or mutation hotspots, such as custom or commercial targeted amplicon or hybrid capture panels
☐ 010 Other(s), specify: 130 _____

6. How would you characterize the selection method used by your laboratory's library preparation?

- 140 ☐ 559 Hybrid capture
☒ 560 Amplicon-based
☐ 010 Other, specify: 150 _____

7. Which of the following best describes the source of the content of your laboratory's NGS panel?

- 160 ☒ 558 Our laboratory uses a commercial kit covering content predesignated by the vendor (Answer Question #8, skip Question #9.)
☐ 118 Our laboratory designed its own library content (Skip to Question #9.)

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Assay Characteristics, cont'd

8. If your laboratory uses a commercial kit with predesignated content, which method does your laboratory use?

- ☐ 325 Agilent ClearSeq AML
☐ 640 Archer FusionPlex Heme v2 for Illumina (RNA Input)
☐ 641 Archer FusionPlex Heme v2 for Ion Torrent (RNA Input)
☐ 642 Archer FusionPlex Myeloid for Illumina (RNA Input)
☐ 643 Archer FusionPlex Myeloid for Ion Torrent (RNA Input)
☐ 645 Archer VariantPlex Core Myeloid (DNA Input)
☐ 646 Archer VariantPlex Myeloid (DNA Input)
☐ 392 Fluidigm Access Array
☐ 252 Illumina TruSight Myeloid Sequencing Panel
☐ 330 RainDance ThunderBolts Myeloid Panel
☐ 393 Roche NimbleGen Comprehensive Cancer Design
- ☐ 651 Thermo Fisher AmpliSeq Myeloid
☐ 394 Thermo Fisher Ion AmpliSeq Cancer Hotspot Panel
☐ 254 Thermo Fisher Ion AmpliSeq Comprehensive Cancer Panel
☐ 532 Thermo Fisher Oncomine Myeloid Assay
☐ 249 Not applicable; our laboratory performs exome or genome sequencing for somatic variant detection
☒ 010 Other, specify:
020 Qiagen QIAseq Human Myeloid Panel

9. If your laboratory designed its own library content, what library preparation method does your laboratory use?

- ☐ 255 Agilent Custom SureSelect
☐ 256 Agilent HaloPlex Custom Kit
☐ 257 Illumina TruSeq Custom Amplicon
☐ 258 Ion AmpliSeq Custom DNA Panel
☐ 259 Nextera Rapid Capture Custom Enrichment Kit
- ☐ 260 RainDance Custom Gene Panel
☐ 395 Roche NimbleGen SeqCap EZ Designs
☐ 010 Other, specify:
040 _____

10. What is the read configuration used by your laboratory for the assay used for somatic variant detection in hematologic malignancies?

- ☒ 262 Paired-end reads
☐ 261 Single-end reads
☐ 010 Other, specify: _____

11. What is the read length in base pairs for the assay used for somatic variant detection in hematologic malignancies?

- ☐ 263 25 bp
☐ 264 36 bp
☐ 265 50 bp
☐ 266 75 bp
- ☐ 267 100 bp
☐ 268 125 bp
☒ 269 150 bp
☐ 270 200 bp
- ☐ 271 250 bp
☐ 272 300 bp
☐ 273 400 bp
☐ 010 Other, specify: bp

12. What is the average number of reads that covers the targeted bases in your laboratory's assay?

- ☐ 279 0 - 50X
☐ 280 51 - 150X
☐ 281 151 - 250X
☐ 282 251 - 350X
- ☐ 283 351 - 500X
☐ 284 501 - 750X
☒ 285 751 - 1,000X
☐ 286 1,001 - 1,500X
- ☐ 287 1,501 - 2,500X
☐ 288 > 2,500X
☐ 289 We have not established this metric

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Assay Characteristics, cont'd

13. What is the minimum number of reads that your laboratory requires for each targeted base in the assay?

- ⁰¹⁰ ☐ 290 0 - 25 reads ☐ 294 251 - 350 reads ☐ 298 1,001 - 1,500 reads
☐ 291 26 - 50 reads ☐ 295 351 - 500 reads ☐ 299 1,501 - 2,500 reads
☐ 292 51 - 150 reads ☐ 296 501 - 750 reads ☐ 300 > 2,500 reads
☒ 293 151 - 250 reads ☐ 297 751 - 1,000 reads ☐ 301 We do not have a minimum read requirement

14. Which analysis software is used for alignment, data pre-processing, and somatic variant calling for this assay?

- ⁰²⁰ ☐ 302 Agilent SureCall Other, specify software used for:
- ☒ 303 CLC Genomics Workbench a. Alignment: (Select all that apply.) c. Somatic variant calling: (Select all that apply.)
- ☐ 304 DNASTAR Lasergene Genomics Suite ⁰³⁰ ☐ 397 BWA-MEM ¹⁴⁰ ☐ 402 Agilent Cartagenia
- ☐ 305 Illumina MiSeq Reporter ☐ 398 BWA, other ☐ 403 Alamut Visual
- ☐ 307 NextGENe ☐ 399 Illumina BaseSpace ☐ 528 Ensembl Variant Effect Predictor
- ☐ 308 Strand Avadis NGS ☐ 400 Novocraft NovoAlign ☐ 405 GATK
- ☐ 306 Thermo Fisher Ion Reporter Software ☐ 401 Torrent Suite ☐ 406 Internally developed pipeline
- ☐ 010 Other, specify: ⁰⁹⁰ _____ ☐ 525 Mutect
- _____ ☐ 407 Pierian
- _____ ☐ 526 Pindel
- _____ ☐ 408 Qiagen ANNOVAR
- _____ ☐ 409 SnpSift
- _____ ☐ 523 Varscan
- _____ ☐ 010 Other, specify: ²⁶⁰ _____
- _____ _____
- _____ _____

15. Which software is used for annotation, filtering, and/or prioritization for this assay? (Select all that apply.)

- ²⁷⁰ ☐ 302 Agilent SureCall ☐ 333 Ingenuity Variant Analysis ☐ 306 Thermo Fisher Ion Reporter Software
- ☐ 331 Agilent GeneSpring NGS ☐ 531 Internally developed ☐ 010 Other, specify:
- ☐ 527 Annovar ☐ 307 NextGENe ³⁹⁰ Qiagen QCI-I
- ☐ 304 DNASTAR Lasergene Genomics Suite ☐ 407 Pierian _____
- ☐ 332 Illumina VariantStudio ☐ 308 Strand Avadis NGS _____

16. Regarding manual variant review, or visual inspection of variants, which of the following best fits your laboratory practice?

- ⁴⁰⁰ ☒ 633 Every variant is manually reviewed before report generation/sign-out
- ☐ 634 Select variants are manually reviewed before report generation/sign-out
- ☐ 635 Our laboratory does not perform manual review of variants before report generation/sign-out

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Specimen Requirements

17. Does your laboratory perform tumor-normal paired testing?

- ⁰¹⁰ ☐ 179 Yes
☒ 180 No

18. If you answered yes to Question #17, does your bioinformatics pipeline **require** a paired normal specimen to analyze tumor variant calls?

- ⁰²⁰ ☐ 652 Yes, always
☐ 653 Sometimes (eg, when a paired normal specimen is available)
☐ 180 No

19. If you answered Yes to Question #17, what control tissue(s) does your laboratory use? (Select all that apply.)

- ⁰³⁰ ☐ 319 Buccal swabs ☐ ⁰¹⁰ Other, specify: _____
☐ 151 Fixed "normal" tissue ⁰⁸⁰
☐ 150 Fresh "normal" tissue (eg, skin biopsy)
☐ 320 Peripheral blood

20. If you answered Yes to Question #17, does your laboratory report constitutional variants?

- ⁰⁹⁰ ☐ 179 Yes
☐ 180 No

21. Which specimen types does your laboratory test for somatic variant detection for the single assay being described? (Select all that apply.)

- ¹⁰⁰ ☐ 232 FFPE cell blocks ☒ 322 Fresh bone marrow ☐ 235 Frozen tissues
☐ 231 FFPE tissues ☒ 323 Fresh peripheral blood ¹⁸⁰
☐ 234 Fine-needle aspirates ☐ 233 Fresh tissue ☐ 010 Other, specify: _____

22. Which quantity of purified genomic DNA does your laboratory require to perform this assay?

- ¹⁹⁰ ☒ 236 0 - 100 ng ☐ 238 201 - 500 ng ☐ 240 1,001 - 2,000 ng
☐ 237 101 - 200 ng ☐ 239 501 - 1,000 ng ☐ 241 > 2,000 ng

Reporting

23. If your laboratory performs confirmatory testing on any somatic variants for this assay, what methods are used? (Select all that apply.)

- ²⁰⁰ ☐ 200 Droplet digital PCR (ddPCR) ☒ 310 Not applicable; somatic variants are reported without confirmation
☐ 396 Fragment analysis ☐ 314 Other targeted mutation testing (eg, allele-specific PCR or real-time PCR)
☐ 636 Multiplex ligation-dependent probe amplification (MLPA) ³⁰⁰
☐ 312 Pyrosequencing ☐ 315 Other NGS-based platform, specify: _____
☐ 311 Sanger sequencing ³²⁰
☐ 313 Sequenom ☐ 010 Other, specify: _____
☐ 637 Single Nucleotide Polymorphism Array (SNPArray)

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Reporting, cont'd

24. In your laboratory's clinical reports, does your laboratory list the variant allele fraction?

- ☒ 368 Yes, for all reported variants
☐ 369 Yes, when allele fraction and tumor content suggest subclonality
☐ 180 No

25. In your laboratory's clinical reports, does your laboratory report total coverage depth (variant and reference reads) at the variant position?

- ☒ 179 Yes
☐ 180 No

26. What types of interpretation does your laboratory **routinely** provide? (Select all that apply.)

- ☒ 372 Biological function, known
☒ 373 Biological function, speculative
☒ 371 Categorization of variants into classes of medical significance
☐ 374 Clinical implications, known
☐ 375 Clinical implications, speculative
☐ 379 Listing of clinically significant mutations that were not detected, disease-specific
☐ 378 Listing of clinically significant mutations that were not detected, general
☐ 381 Listing of undercovered/underperforming regions that were not detected, disease-specific
☐ 380 Listing of undercovered/underperforming regions that were not detected, general
☐ 377 Specific treatment recommendations, investigational therapies
☒ 376 Specific treatment recommendations, standard of care
☐ 370 No interpretation provided beyond listing the mutations detected

27. Does your laboratory report variants using a tiered approach (ie, tier 1: variants known to be associated with the disease in question; tier 2: variants known to be associated disease, but in a different disease type, tier x: variant with unknown disease association)?

- ☒ 179 Yes
☐ 180 No

28. Who generates the final interpretive report?

- ☐ 382 Bioinformatics program
☐ 383 Bioinformatician(s)
☐ 638 Certified technologist
☐ 133 Clinician
☐ 136 Laboratory geneticist
☐ 385 Hematopathologist(s)
☐ 139 Medical scientist
☐ 384 Molecular pathologist(s)
☐ 144 Other pathologist(s)
☒ 386 Team with members from various disciplines

☐ 010 Other, specify:
170

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Reporting, cont'd

29. Which reference genome(s) are being used currently in your laboratory? (Select all that apply.)

- ☒ 1255 hg19 (GRCh37) ☐ 0010 Other, specify: 050
- ☐ 1256 hg38 (GRCh38)
- ☐ 3967 Telomere-to-telomere (T2T) _____

30. If your laboratory is still using hg19 (GRCh37), what is your timeline to convert to hg38 (GRCh38)?

- ☒ 3396 In the next 6 months or less ☐ 3399 In the next 19 - 24 months
- ☐ 3397 In the next 7 - 12 months ☐ 3400 Beyond the next 25 months
- ☐ 3398 In the next 13 - 18 months ☒ 3401 We do not have plans to convert to hg38

Additional NGS Testing Questions

31. How many NGS-based assays for the detection of somatic variants in hematologic malignancies does your laboratory currently perform?

- ☐ 334 1 ☐ 337 4
- ☒ 335 2 ☐ 338 5 080
- ☐ 336 3 ☐ 339 > 5, specify number:

32. Which categories of somatic variants are detected by any of your laboratory's assays for hematologic malignancies? (Select all that apply.)

- ☒ 277 Copy number variants (> 1 kb) ☒ 275 Small insertions and deletions (eg, < 50 bp)
- ☐ 316 Gene rearrangements for B cell receptors ☐ 278 Other structural variants (eg, translocations)
- ☐ 317 Gene rearrangements for T cell receptors
- ☐ 276 Intermediate sized insertions and deletions (eg, 50 bp - 1 kb) ☐ 010 Other, specify: 170 _____
- ☒ 274 Single nucleotide variants

33. Which categories of somatic variants are detected by your laboratory's NGS panel for hematological malignancies? (Select all that apply.)

- ☒ 277 Copy number variants (> 1 kb) ☒ 275 Small insertions and deletions (eg, < 50 bp)
- ☐ 316 Gene rearrangements for B cell receptors ☐ 278 Other structural variants (eg, translocations)
- ☐ 317 Gene rearrangements for T cell receptors
- ☐ 276 Intermediate sized insertions and deletions (eg, 50 bp - 1 kb) ☐ 010 Other, specify: 260 _____
- ☒ 274 Single nucleotide variants

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Additional NGS Testing Questions, cont'd

34. Using the NGS Platform Master List on the kit instructions, indicate which platform(s) are used in your laboratory for detection of somatic variants in hematologic malignancies.

010

2923

030

050

020

3482

040

060

35. Does your laboratory have an upper limit of length of detection for indels/insertions/deletions?

070

☐ 179 Yes☒ 180 No☐ 147 Not applicable

36. If yes, what is the upper limit?

080

☐ 664 ≤ 5 ☐ 460 6 - 10☐ 665 11 - 15☐ 666

16 - 25

☐ 667 ≥ 26

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Next-Generation Sequencing (NGS) Program Format Supplemental Questions

The CAP is considering a new format for proficiency testing involving NGS. Instead of completing a result form, participants would upload output files from their bioinformatic pipeline to a custom website. The new system would be more efficient, reduce data entry errors, and align proficiency testing with the nature of NGS testing. However, it would require some data manipulation by participating laboratories. Answer the questions below to help us better understand whether your laboratory would be able and willing to participate.

1. Is your laboratory able to obtain the following file(s) from your pipeline, and would your laboratory be willing to submit them as part of a proficiency testing challenge?

	Able to Obtain			Willing to Submit		
	Yes	No	Unknown/Unsure	Yes	No	Unknown/Unsure
BED	<input type="radio"/> 010 1341	<input checked="" type="radio"/> 1342	<input type="radio"/> 1319	<input type="radio"/> 020 1341	<input checked="" type="radio"/> 1342	<input type="radio"/> 1319
FASTQ	<input checked="" type="radio"/> 030 1341	<input type="radio"/> 1342	<input type="radio"/> 1319	<input checked="" type="radio"/> 040 1341	<input type="radio"/> 1342	<input type="radio"/> 1319
Unaligned BAM	<input type="radio"/> 050 1341	<input checked="" type="radio"/> 1342	<input type="radio"/> 1319	<input type="radio"/> 060 1341	<input checked="" type="radio"/> 1342	<input type="radio"/> 1319
Unfiltered VCF	<input checked="" type="radio"/> 070 1341	<input type="radio"/> 1342	<input type="radio"/> 1319	<input checked="" type="radio"/> 080 1341	<input type="radio"/> 1342	<input type="radio"/> 1319

2. Would your laboratory be able and willing to submit your VCF file in lieu of a result form?

- ☒ 090 1257 Yes, able and willing
☐ 1258 No, unable
☐ 1179 No, unwilling
☐ 1319 Unknown/unsure

3. Would your laboratory be willing and able to perform an initial batch upload of your responses using a standardized Excel spreadsheet in lieu of a result form?

- ☒ 100 1257 Yes, able and willing
☐ 1258 No, unable
☐ 1179 No, unwilling
☐ 1319 Unknown/unsure

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Attestation/Use of Other Form

Attestation Statement

As stated in the February 28, 1992 United States Federal Register under Subpart H 493-801 (b) (1), "the individual testing or examining the samples and the laboratory director must attest to the routine integration of the samples into the patient work load using the laboratory's routine methods." The laboratory director or designee and the testing personnel must sign on the result form.

You may use the attestation page provided in the kit instructions or, alternatively, print, sign, and retain a copy of this page for your records and inspection purposes.

If your laboratory requires additional space for signatures, copy this form as needed.

We, the undersigned, recognizing that some special handling may be required due to the nature of proficiency testing (PT) materials, have as closely as is practical, performed the analyses on these specimens in the same manner as regular patient specimens. We confirm that results were not shared or PT specimens referred or tested outside our CLIA identification number.

Director (or Designee) (signature required)

Survey Mailing Information

010 Stephen Hyter

070 NGSHM-A 2023

040

Testing Personnel (signature required)

Testing Personnel (signature required)

Testing Personnel (signature required)

080 Chunhua Li

110

140

Use of Other

If applicable, use this section to list methodology information not found on the master lists or result form. For online entry, you can enter only 255 characters. CAP Accreditation Program Participants: Do not use this section to make changes to your test/activity menu. Update your test/activity menu using Organization Profile on cap.org via e-LAB Solutions Suite.

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Signatures will not display when viewed online.

Customer Contact Center 800-323-4040 or 847-832-7000
(Country code: 1) Option 1

AO 2023

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