Laboratorium voor Moleculaire Diagnostiek
Postbus 2040, 3000 CA Rotterdam
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NGS Translocatie onderzoek: Archer FusionPlex CTL

Gene	Accession	Exon	AssayType	Description
AKT1	NM_005163	3	Mutation	E17K
ALK	NM_004304	2,4,6,10,16,17, 18,19,(intron19), 20,21,22,23	Fusion/ Expression Imbalance	5’
ALK	NM_004304	N/A	Expression	N/A
ALK	NM_004304	21,22,23,25	Imbalance	T1151ins,L1152R, C1156Y,F1174L, L1196M,G1202R, S1206Y,G1269A
AXL	NM_001699	18,19,20	Expression	3’
AXL	NM_001699	N/A	Mutation	N/A
BRAF	NM_004333	11,15	Mutation	G466V,G469, Y472,L597V, V600,D594G
BRAF	NM_004333	7,8,9,10,11	Fusion	5’
BRAF	NM_004333	7,8,10	Fusion	3’
BRAF	NM_004333	N/A	Expression	N/A
CALCA	NM_001741	N/A	Expression	N/A
CCND1	NM_053056	1,2,3,4	Fusion	5’
CCND1	NM_053056	1,2,4	Fusion	3’
CCND1	NM_053056	N/A	Expression	N/A
CTNNB1	NM_001904	3	Mutation	D32G,S37,G34
DDR2	NM_006182	17	Mutation	S768R,T765P, G774
EGFR	NM_005228	8	Splice Variant	5’ (2-7exon skipping event)
EGFR	NM_005228	18,19,20,21	Mutation	G719, A763insFQEA, T790M,L858R, L861Q,Y764, V774,L777,L768, P753,L760, E709A,L747,varius deletions in exon 19
EGFR	NM_005228	N/A	Expression	N/A
ERBB2	NM_004448	23	Mutation	C775ins
FGFR1	NM_015850	13	Mutation	V561M
FGFR1	NM_015850	2,8,9,10,17	Fusion	5’
FGFR1	NM_015850	17	Fusion	3’
FGFR1	NM_015850	N/A	Expression	N/A
FGFR2	NM_000141	2,5,7,8,9,10	Fusion	5’

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FGFR2	NM_000141	17	Fusion	3’
FGFR2	NM_000141	N/A	Expression	N/A
FGFR3	NM_000142	17,(intron17)	Fusion	3’
FGFR3	NM_000142	3,5,8,9,10	Fusion	5’
FGFR3	NM_000142	N/A	Expression	N/A
GNAS	NM_000516	8,9	Mutation	Various exon 8 and 9 mutations
GNAS	NM_000516	8,9	Mutation	N/A
HRAS	NM_005343	2,3	Mutation	G12,G13,Q61
IDH1	NM_005896	4	Mutation	R132
IDH2	NM_002168	4	Mutation	R172,R140
KRAS	NM_004985	2,3,4	Mutation	G12,G13, Q61,A146
KRT20	NM_019010	N/A	Expression	N/A
KRT7	NM_005556	N/A	Expression	N/A
MAP2K1	NM_002755	2,3	Mutation	Q56P,K57N,D67N
MET	NM_000245	2	Fusion	3’
MET	NM_000245	2,4,5,6,13,14, 16,17,21	Fusion	5’
MET	NM_000245	15	Splice	5’
MET	NM_000245	N/A	Expression Variant	N/A
NRAS	NM_002524	2,3	Mutation	G12,G13,Q61
NRG1	NM_004495	1,2,3,6	Fusion	5’
NTRK1	NM_002529	2,4,6,8,10, 11,12,13	Fusion/ Expression Imbalance	5’
NTRK1	NM_002529	N/A	Expression	N/A
NTRK2	NM_006180	5,7,9,11,12,13,14, 15,16,17	Imbalance	5’
NTRK2	NM_006180	N/A	Expression	N/A
NTRK3	NM_002530	4,7,10,13, 14,15,16	Fusion/ Expression Imbalance	5’
NTRK3	NM_001007156	15	Expression	5’
NTRK3	NM_002530	N/A	Imbalance	N/A
PIK3CA	NM_006218	10,21	Expression	E542K,E545, H1047
PPARG	NM_015869	1,2,3,5	Fusion/ Expression Imbalance	5’
PTH	NM_000315	N/A	Expression	N/A
RAF1	NM_002880	4,5,6,7,9, 10,11,12	Imbalance	5’
RET	NM_020630	11,13,14,15,16	Fusion	C634,M918T, V804,Y806D, E768D,A883F

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RET	NM_020630	2,4,6,8,9,10, 11,12,13,14	Fusion/ Expression Imbalance	5’
RET	NM_020630	N/A	Expression	N/A
ROS1	NM_002944	2,4,7,31,32, 33,34,35,36,37	Imbalance	5’
ROS1	NM_002944	38	Expression	G2032R
ROS1	NM_002944	N/A	Fusion/ Expression Imbalance	N/A
SLC5A5	NM_000453	N/A	Expression	N/A
THADA	NM_022065	24,25,26,27,28, 29,30,36,37	Imbalance	3’
THADA	NM_022065	N/A	Mutation	N/A
TTF1	NM_007344	N/A	Expression	N/A
CHMP2A	NM_014453	3,4	Expression	N/A
GPI	NM_000175	15,16	Control	N/A
RAB7A	NM_004637	3,4	Control	N/A
VCP	NM_007126	14,15	Control	N/A

*not all accession numbers covered are shown in table