

Archer FusionPlex Fusion Targets

Gene	Purpose	Transcript	Exons Targeted
AKT1	Fusion	NM_005163	2,3,4,5,6,8,10
AKT3	Fusion	NM_005465	1,2,3,6,8,10,12 2,4,6,10,16,17,18,19,20,21,22,
ALK	Fusion	NM_004304	23,25,26
AR	Fusion/Oncogenic Isoform	NM_000044	1,2,3,4,5,6,7,8
AR	Fusion/Oncogenic Isoform	NM_001011645	1
ARHGAP26	Fusion	NM_015071	2,10,11,12
ATRX	Fusion	NM_000489	2,6,12,24,29,34
AXL	Fusion	NM_021913	18,19
AXL	Fusion	NM_001699	5,10,14,16
BCAR4	Fusion	NR_024049	1,2,4
BCL2	Fusion	NM_000633	1,2,3
BCL2L1	Fusion	NM_001191	2,3
BCOR	Fusion	NM_001123385	6,7,8,12,14,15
BCOR	Fusion	NM_017745	8
BRAF	Fusion	NM_004333	1,2,3,7,8,9,10,11,12,13,15,16
CAMTA1	Fusion	NM_015215	3,8,9,10
CCND1	Fusion	NM_053056	1,2,3,4,5
CD274	Fusion	NM_014143	2,3,4,5,6
CDK6	Fusion	NM_001259	2,3,4,6,7,8
CDKN2B-AS1 (A	Fusion	NR_003529	1
CIC	Fusion	NM_015125	17,18,19,20
CTNNB1	Fusion	NM_001904	5,6,8,9,10
DNAJB1	Fusion	NM_006145	1,2
EGFR	Fusion/Oncogenic Isoform	NM_005228	1,7,8,9,16,17,18,19,20,24,25
ERBB3	Fusion	NM_001982	9,24
ERBB4	Fusion	NM_005235	2,3,4,14,15,16,17,18,22,23
ERG	Fusion	NM_004449	2,3,4,5,6,7,8,9,10,11
ESR1	Fusion	NM_001122742	3,4,5,6
ESR1	Fusion	NM_000125	6,8
ETV1	Fusion	NM_004956	3,4,5,6,7,8,9,10,11,12,13
ETV4	Fusion	NM_001986	2,4,5,6,7,8,9,10
ETV5	Fusion	NM_004454	2
ETV5	Fusion	NM_004454	3,7,8,9
ETV6	Fusion	NM_001987	2,3,4,5,6,7
ETV6	Fusion	NM_001987	1,2,3,4,5,6
EWSR1	Fusion	NM_005243	4,5,6,7,8,9,10,11,12,13,14
FGFR1	Fusion	NM_015850	2,3,4,5,6,7,8,9,10,11,12,13,17
FGFR2	Fusion	NM_000141	2,5,7,8,9,10,16,17
FGFR2	Fusion	NM_023029	6,11
FGFR3	Fusion	NM_000142	3,5,8,9,10,13,15,16,17
FGFR4	Fusion	NM_213647	8
FGFR4	Fusion	NM_002011	4,5,9,10

FLI1	Fusion	NM_002017	2
FOS	Fusion	NM_005252	4
FOSB	Fusion	NM_006732	1,2
FOXA1	Fusion	NM_004496	1,2
FOXO1	Fusion	NM_002015	1,2,3
FUS	Fusion	NM_004960	3,4,5,6,7,8,9,10,11,13,14
GLI1	Fusion	NM_005269	4,5,6,7
HMGA2	Fusion	NM_003483	1,2,3,4,5
JAZF1	Fusion	NM_175061	2,3,4
KIT	Fusion	NM_000222	1,4,7,9,12,14,17
MAML2	Fusion	NM_032427	2,3
MAML3	Fusion	NM_018717	1,2,3,4,5
MAST1	Fusion	NM_014975	7,8,9,18,19,20,21
MAST2	Fusion	NM_015112	2,3,5,6
MET	Fusion	NM_000245	1,2,3,4,5,6,13,14,15,16,17,21
MKL2/MRTFB	Fusion	NM_014048	11,12,13
MN1	Fusion	NM_002430	1,2
MYB	Fusion	NM_001130173	7,8,9,11,12,13,14,15,16
MYBL1	Fusion	NM_001080416	8,9,10,11,12,13,14,15
NCOA1	Fusion	NM_147223	12,13,14,15
NCOA2	Fusion	NM_006540	11,12,13,14,15,16
NDRG1	Fusion	NM_006096	6,7,8,10,13,15
NOTCH1	Fusion	NM_017617	2,4,24,25,26,27,28,29,30,31
NOTCH2	Fusion	NM_024408	5,6,7,26,27,28
NR4A3	Fusion	NM_173200	3,4
NRG1	Fusion	NM_004495	1,2,3,6
NRG1	Fusion	NM_013962	1,4,8
NTRK1	Fusion	NM_002529	2,4,6,8,10,11,12,13
NTRK2	Fusion	NM_006180	5,7,9,11,12,13,14,15,16,17
NTRK3	Fusion	NM_002530	4,7,10,12,13,14,15,16
NTRK3	Fusion	NM_001243101	16,17
NTRK3	Fusion	NM_001007156	15
NUMB	Fusion	NM_001005743	13
NUTM1	Fusion	NM_175741	3,4,5
PAX3	Fusion	NM_181459	6,7,8
PDGFD	Fusion	NM_025208	6
PDGFB	Fusion	NM_002608	2,3
PDGFRA	Fusion	NM_006206	7,10,11,12,13,14,15
PHF1	Fusion	NM_024165	1,2
PIK3CA	Fusion	NM_006218	2,8,11
PLAG1	Fusion	NM_002655	1,2,3,4
PPARG	Fusion	NM_015869	1,2,3,4,5
PRKCA	Fusion	NM_002737	4,5,6
RAF1	Fusion	NM_002880	4,5,6,7,8,9,10,11,12
RELA	Fusion	NM_021975	3,4

RET	Fusion	NM_020630	2,4,6
RET	Fusion	NM_020975	8,9,10,11,12,13,14
ROS1	Fusion	NM_002944	2,4,7,31,32,33,34,35,36,37
RSPO2	Fusion	NM_178565	1,2
RSPO3	Fusion	NM_032784	2
SLC45A3	Fusion	NM_033102	2,3,4,5
SS18	Fusion	NM_001007559	4,5,6,8,9,10,11
SS18L1	Fusion	NM_198935	10
STAT6	Fusion	NM_001178078	3,4,5,6,7,15,16,17,18,19,20
TAF15	Fusion	NM_139215	5,6,7
TCF12	Fusion	NM_207036	4,5,6
TCF7L1	Fusion	NM_031283	4
TCF7L2	Fusion	NM_030756	4
TERT	Fusion	NM_198253	2,3,5,7,9,10,11,12,15
TFE3	Fusion	NM_006521	2,3,4,5,6,7,8
TFEB	Fusion	NM_007162	1,2,3,4
TFG	Fusion	NM_006070	3,4,5,6,7
THADA	Fusion	NM_022065	24,25,26,27,28,29,30,36,37
TMPRSS2	Fusion	NM_001135099	1,2
TMPRSS2	Fusion	NM_005656	1,3,4,5,6
TP53	Fusion	NM_000546	1,2,4,5,6,7,8,9,10,11
TRIO	Fusion	NM_007118	5,12,19,24,34,52
USP6	Fusion	NM_004505	1,2,3
VGLL2	Fusion	NM_182645	1,2,3,4
YWHAE	Fusion	NM_006761	5
WWTR1	Fusion	NM_001168278	3,4,5
YAP1	Fusion	NM_001130145	1,2,5,6,7
YAP1	Fusion	NM_006106	1