

## Asuragen Quantidex NGS RNA fusion transcript panel:

- Deze test betreft de Quantidex NGS RNA lung cancer assay, welke kan worden ingezet voor de detectie van fusie transcript targets welke relevant zijn m.b.t. longtumoren, alsook andere tumor-typen indien de aangevraagde genetisch targets geïnccludeerd zijn in het panel (bijvoorbeeld NTRK).
- In onderstaande tabel zijn de fusie transcripten weergegeven welke worden gedetecteerd o.b.v. de Quantidex NGS RNA lung cancer assay.
- Op basis van de 3'/5' imbalance probes kunnen ook ALK, ROS1, RET en NTRK1 fusie transcripten worden gedetecteerd met een niet in onderstaande tabel gespecificeerde 5' fusiepartner.
- De detectie van cryptic splice events is beperkt tot MET exon 14 skipping transcripten (MET e13:e14, e14:e15, e13:e15).

3' gen	5' gen	fusie-transcript specificatie	type
<i>ALK</i>	<i>CLTC</i>	CLTC{ENST00000269122}:r.1_5101_insGGUG_ALK{ENST00000389048}:r.4080-120_6220	cDNA
<i>ALK</i>	<i>CLTC</i>	CLTC{ENST00000269122}:r.1_5177_ALK{ENST00000389048}:r.4080_6220	cDNA
<i>ALK</i>	<i>CLTC</i>	CLTC{ENST00000269122}:r.1_5177+2010_ALK{ENST00000389048}:r.4080-48_6220	cDNA
<i>ALK</i>	<i>DCTN1</i>	DCTN1{ENST00000361874}:r.1_3514_ALK{ENST00000389048}:r.4080_6220	cDNA
<i>ALK</i>	<i>EML4</i>	EML4{ENST00000318522}:r.1_1903_ALK{ENST00000389048}:r.4080_6220	cDNA
<i>ALK</i>	<i>EML4</i>	EML4{ENST00000318522}:r.1_2229+2522_ALK{ENST00000389048}:r.4126_6220	gDNA
<i>ALK</i>	<i>EML4</i>	EML4{ENST00000318522}:r.1_929_EML4{ENST00000318522}:r.903+188_903+220_ALK{ENST00000389048}:r.4080_6220	cDNA
<i>ALK</i>	<i>EML4</i>	EML4{ENST00000318522}:r.1_929+(7320)_ALK{ENST00000389048}:r.4080_6220	cDNA
<i>ALK</i>	<i>EML4</i>	EML4{ENST00000318522}:r.1_1751_ALK{ENST00000389048}:r.4080_6220	cDNA
<i>ALK</i>	<i>EML4</i>	EML4{ENST00000318522}:r.1_1751_ALK{ENST00000389048}:r.4080-69_6220	cDNA
<i>ALK</i>	<i>EML4</i>	EML4{ENST00000318522}:r.1_1751_ALK{ENST00000389048}:r.4080-90_6220	cDNA
<i>ALK</i>	<i>EML4</i>	EML4{ENST00000318522}:r.1_1751+(3600)_ALK{ENST00000389048}:r.4080-297_6220	gDNA
<i>ALK</i>	<i>EML4</i>	EML4{ENST00000318522}:r.1_1751+1485_ALK{ENST00000389048}:r.4080-1254_6220	gDNA
<i>ALK</i>	<i>EML4</i>	EML4{ENST00000318522}:r.1_1751+2575_ALK{ENST00000389048}:r.4080-203_6220	gDNA
<i>ALK</i>	<i>EML4</i>	EML4{ENST00000318522}:r.1_1903_ALK{ENST00000389048}:r.4080-124_6220	cDNA
<i>ALK</i>	<i>EML4</i>	EML4{ENST00000318522}:r.1_1903_ALK{ENST00000389048}:r.4094_6220	cDNA
<i>ALK</i>	<i>EML4</i>	EML4{ENST00000318522}:r.1_1903_ALK{ENST00000389048}:r.4118_6220	cDNA
<i>ALK</i>	<i>EML4</i>	EML4{ENST00000318522}:r.1_1903_insAUAUGCUGGAU_ALK{ENST00000389048}:r.4129_6220	cDNA
<i>ALK</i>	<i>EML4</i>	EML4{ENST00000318522}:r.1_1969_ALK{ENST00000389048}:r.4151_6220	cDNA

<i>ALK</i>	<i>EML4</i>	EML4{ENST00000318522}:r.1_2029_ALK{ENST00000389048}:r.4080_6220	cDNA
<i>ALK</i>	<i>EML4</i>	EML4{ENST00000318522}:r.1_2229_EML4{ENST00000318522}:r.2229+2517_2229+2522_ALK{ENST00000389048}:r.4126_6220	cDNA
<i>ALK</i>	<i>EML4</i>	EML4{ENST00000318522}:r.1_2229_insCAUACUAUGUAUACAAGGGAGUU_ALK{ENST00000389048}:r.4126_6220	cDNA
<i>ALK</i>	<i>EML4</i>	EML4{ENST00000318522}:r.1_2318_ALK{ENST00000389048}:r.4080_6220	cDNA
<i>ALK</i>	<i>EML4</i>	EML4{ENST00000318522}:r.1_2318+654_insU_ALK{ENST00000389048}:r.4080-172_6220	gDNA
<i>ALK</i>	<i>EML4</i>	EML4{ENST00000318522}:r.1_2504_ALK{ENST00000389048}:r.4080_6220	cDNA
<i>ALK</i>	<i>EML4</i>	EML4{ENST00000318522}:r.1_2504_ALK{ENST00000389048}:r.4080-18_6220	cDNA
<i>ALK</i>	<i>EML4</i>	EML4{ENST00000318522}:r.1_2504+182_ALK{ENST00000389048}:r.4080-67_6220	gDNA
<i>ALK</i>	<i>EML4</i>	EML4{ENST00000318522}:r.1_2504+545_ALK{ENST00000389048}:r.4080-232_6220	gDNA
<i>ALK</i>	<i>EML4</i>	EML4{ENST00000318522}:r.1_470_ALK{ENST00000389048}:r.4080_6220	cDNA
<i>ALK</i>	<i>EML4</i>	EML4{ENST00000318522}:r.1_470_ALK{ENST00000389048}:r.4080-117_6220	cDNA
<i>ALK</i>	<i>EML4</i>	EML4{ENST00000318522}:r.1_929_ALK{ENST00000389048}:r.3975_6220	cDNA
<i>ALK</i>	<i>EML4</i>	EML4{ENST00000318522}:r.1_929_ALK{ENST00000389048}:r.4080_6220	cDNA
<i>ALK</i>	<i>EML4</i>	EML4{ENST00000318522}:r.1_929_ALK{ENST00000389048}:r.4080-18_6220	cDNA
<i>ALK</i>	<i>EML4</i>	EML4{ENST00000318522}:r.1_929_insCAAAAAUGUCAACUCGCAAAAAACAGCCAAG_ALK{ENST00000389048}:r.4080_6220	cDNA
<i>ALK</i>	<i>EML4</i>	EML4{ENST00000318522}:r.1_929+220_ALK{ENST00000389048}:r.4080_6220	cDNA
<i>ALK</i>	<i>EML4</i>	EML4{ENST00000318522}:r.1_929+805_insAA_ALK{ENST00000389048}:r.4080-115_6220	gDNA
<i>ALK</i>	<i>KIF5B</i>	KIF5B{ENST00000302418}:r.1_2183_ALK{ENST00000389048}:r.4080_6222	cDNA
<i>ALK</i>	<i>KIF5B</i>	KIF5B{ENST00000302418}:r.1_2183_ALK{ENST00000389048}:r.4094_6222	cDNA
<i>ALK</i>	<i>KIF5B</i>	KIF5B{ENST00000302418}:r.1_2183+2477_ALK{ENST00000389048}:r.4005_6222	gDNA
<i>ALK</i>	<i>KIF5B</i>	KIF5B{ENST00000302418}:r.1_2490_ALK{ENST00000389048}:r.4080_6222	cDNA
<i>ALK</i>	<i>KIF5B</i>	KIF5B{ENST00000302418}:r.1_3219_ALK{ENST00000389048}:r.4080_6222	cDNA
<i>ALK</i>	<i>KLC1</i>	KLC1{ENST00000348520}:r.1_1580_ALK{ENST00000389048}:r.4080_6220	cDNA
<i>ALK</i>	<i>SQSTM1</i>	SQSTM1{ENST00000514093}:r.1_842_ALK{ENST00000389048}:r.4080_6220	cDNA
<i>ALK</i>	<i>STRN</i>	STRN{ENST00000263918}:r.1_421_ALK{ENST00000389048}:r.4080_6222	cDNA
<i>ALK</i>	<i>STRN</i>	STRN{ENST00000263918}:r.1_421+2363_ALK{ENST00000389048}:r.4080-440_6220	gDNA
<i>ALK</i>	<i>STRN</i>	STRN{ENST00000263918}:r.1_421+2483_insUGU_ALK{ENST00000389048}:r.4080-580_6220	gDNA
<i>ALK</i>	<i>STRN</i>	STRN{ENST00000263918}:r.1_421+6813_ALK{ENST00000389048}:r.4080-1756_6220	gDNA
<i>ALK</i>	<i>TFG</i>	TFG{ENST00000240851}:r.1_755+430_ALK{ENST00000389048}:r.4080-1687_6220	gDNA
<i>ALK</i>	<i>TFG</i>	TFG{ENST00000240851}:r.1_920+2559_insU_ALK{ENST00000389048}:r.4080-940_6220	gDNA

<i>ALK</i>	<i>TFG</i>	TFG{ENST00000240851}:r.1_1061_ALK{ENST00000389048}:r.4080_6220	cDNA
<i>ALK</i>	<i>TFG</i>	TFG{ENST00000240851}:r.1_755_ALK{ENST00000389048}:r.4080_6220	cDNA
<i>ALK</i>	<i>TFG</i>	TFG{ENST00000240851}:r.1_920_ALK{ENST00000389048}:r.4080_6220	cDNA
<i>ALK</i>	<i>TPM3</i>	TPM3{ENST00000368533}:r.1_717_ALK{ENST00000389048}:r.4080_6220	cDNA
<i>CIT</i>	<i>FGFR2</i>	FGFR2{ENST00000358487}:r.1_2574_CIT{ENST00000392521}:r.2961_8708	cDNA
<i>FGFR1</i>	<i>BAG4</i>	BAG4{ENST00000521282}:r.1_192_FGFR1{ENST00000397091}:r.1680_5702	cDNA
<i>MBIP</i>	<i>AXL</i>	AXL{ENST00000301178}:r.1_2767_MBIP{ENST00000416007}:r.563_1648	cDNA
<i>NRG1</i>	<i>CD74</i>	CD74{ENST0000009530}:r.1_627_NRG1{ENST00000356819}:r.963_3083	cDNA
<i>NRG1</i>	<i>CD74</i>	CD74{ENST0000009530}:r.1_882_NRG1{ENST00000356819}:r.963_3083	cDNA
<i>NTRK1</i>	<i>CD74</i>	CD74{ENST00000353334}:r.1_868_NTRK1{ENST00000392302}:r.1262_2609	cDNA
<i>NTRK1</i>	<i>MPRIP</i>	MPRIP{ENST00000395811}:r.1_3048_NTRK1{ENST00000392302}:r.1421_2609	cDNA
<i>NTRK1</i>	<i>TFG</i>	TFG{ENST00000240851}:r.1_920_NTRK1{ENST00000392302}:r.1262_2609	cDNA
<i>NTRK1</i>	<i>TPM3</i>	TPM3{ENST00000368533}:r.1_717_NTRK1{ENST00000392302}:r.1262_2609	cDNA
<i>NTRK3</i>	<i>ETV6</i>	ETV6{ENST00000396373}:r.1_1283_NTRK3{ENST00000394480}:r.1908_19984	cDNA
<i>NTRK3</i>	<i>ETV6</i>	ETV6{ENST00000396373}:r.1_737_NTRK3{ENST00000394480}:r.1719_19984	cDNA
<i>NTRK3</i>	<i>ETV6</i>	ETV6{ENST00000396373}:r.1_737_NTRK3{ENST00000394480}:r.1908_19984	cDNA
<i>PDGFRA</i>	<i>SCAF11</i>	SCAF11{ENST00000369367}:r.1_213_PDGFR1{ENST00000257290}:r.320_6576	cDNA
<i>RET</i>	<i>CCDC6</i>	CCDC6{ENST00000263102}:r.1_535+1054_RET{ENST00000355710}:r.2369-?_5659	gDNA
<i>RET</i>	<i>CCDC6</i>	CCDC6{ENST00000263102}:r.1_535_RET{ENST00000355710}:r.2369_5659	cDNA
<i>RET</i>	<i>CCDC6</i>	CCDC6{ENST00000263102}:r.1_535+1111_RET{ENST00000355710}:r.2369-807_5659	gDNA
<i>RET</i>	<i>CCDC6</i>	CCDC6{ENST00000263102}:r.1_685_RET{ENST00000355710}:r.2369_5659	cDNA
<i>RET</i>	<i>KIF5B</i>	KIF5B{ENST00000302418}:r.1_2183_RET{ENST00000355710}:r.2369_5629	cDNA
<i>RET</i>	<i>KIF5B</i>	KIF5B{ENST00000302418}:r.1_2372_RET{ENST00000355710}:r.2369_5629	cDNA
<i>RET</i>	<i>KIF5B</i>	KIF5B{ENST00000302418}:r.1_2897_RET{ENST00000355710}:r.2369_5629	cDNA
<i>RET</i>	<i>KIF5B</i>	KIF5B{ENST00000302418}:r.1_3002_RET{ENST00000355710}:r.2369_5629	cDNA
<i>RET</i>	<i>KIF5B</i>	KIF5B{ENST00000302418}:r.1_3002+152_insCUUU_RET{ENST00000355710}:r.2369-12_5629	gDNA
<i>RET</i>	<i>KIF5B</i>	KIF5B{ENST00000302418}:r.1_3219_RET{ENST00000355710}:r.2112_5629	cDNA
<i>RET</i>	<i>NCOA4</i>	NCOA4{ENST00000452682}:r.1_870_RET{ENST00000355710}:r.2369_5659	cDNA
<i>RET</i>	<i>TRIM33</i>	TRIM33{ENST00000358465}:r.1_2502_RET{ENST00000355710}:r.2369_5659	cDNA
<i>ROS1</i>	<i>CCDC6</i>	CCDC6{ENST00000263102}:r.1_1079_ROS1{ENST00000368508}:r.5841_7435	cDNA

<b>ROS1</b>	<b>CD74</b>	CD74{ENST00000009530}:r.1_627_ROS1{ENST00000368508}:r.5841_7435	cDNA
<b>ROS1</b>	<b>CD74</b>	CD74{ENST00000009530}:r.1_627_ROS1{NM_002944}:r.5448_7368	cDNA
<b>ROS1</b>	<b>CD74</b>	CD74{ENST00000009530}:r.1_627_ROS1{NM_002944}:r.5757_7368	cDNA
<b>ROS1</b>	<b>CLTC</b>	CLTC{ENST00000393043}:r.1_5177_ROS1{ENST00000368508}:r.5841_7435	cDNA
<b>ROS1</b>	<b>EZR</b>	EZR{ENST00000367075}:r.1_1259_ROS1{NM_002944}:r.5757_7368	cDNA
<b>ROS1</b>	<b>EZR</b>	EZR{ENST00000367075}:r.1_1259+207_oEZR{ENST00000367075}:r.1259+210_1259+244_ROS1{NM_002944}:r.5757-744_7368	gDNA
<b>ROS1</b>	<b>GOPC</b>	GOPC{ENST00000368498}:r.1_1334_ROS1{NM_002944}:r.5841_7368	cDNA
<b>ROS1</b>	<b>GOPC</b>	GOPC{ENST00000368498}:r.1_1334+2304_ROS1{NM_002944}:r.5841-2355_7368	gDNA
<b>ROS1</b>	<b>GOPC</b>	GOPC{ENST00000368498}:r.1_726_ROS1{NM_002944}:r.5977_7368	cDNA
<b>ROS1</b>	<b>GOPC</b>	GOPC{ENST00000368498}:r.1_726+822_insGAUAUGCUGAUUUUGCUCAAAGGAAAGUCACCUCU_ROS1{NM_002944}:r.5977-563_7368	gDNA
<b>ROS1</b>	<b>LRIG3</b>	LRIG3{ENST00000320743}:r.1_2982_ROS1{ENST00000368508}:r.5841_7435	cDNA
<b>ROS1</b>	<b>SDC4</b>	SDC4{ENST00000372733}:r.1_239_ROS1{ENST00000368508}:r.5757_7368	cDNA
<b>ROS1</b>	<b>SDC4</b>	SDC4{ENST00000372733}:r.1_239_ROS1{NM_002944}:r.5448_7368	cDNA
<b>ROS1</b>	<b>SDC4</b>	SDC4{ENST00000372733}:r.1_485_ROS1{NM_002944}:r.5448_7368	cDNA
<b>ROS1</b>	<b>SDC4</b>	SDC4{ENST00000372733}:r.1_485_ROS1{NM_002944}:r.5757_7368	cDNA
<b>ROS1</b>	<b>SLC34A2</b>	SLC34A2{ENST00000382051}:r.1_2076_ROS1{NM_002944}:r.5757_7368	cDNA
<b>ROS1</b>	<b>SLC34A2</b>	SLC34A2{ENST00000382051}:r.1_2076_ROS1{NM_002944}:r.5448_7368	cDNA
<b>ROS1</b>	<b>SLC34A2</b>	SLC34A2{ENST00000382051}:r.1_429_ROS1{NM_002944}:r.5448_7368	cDNA
<b>ROS1</b>	<b>SLC34A2</b>	SLC34A2{ENST00000382051}:r.1_429_ROS1{NM_002944}:r.5757_7368	cDNA
<b>ROS1</b>	<b>TPM3</b>	TPM3{ENST00000368530}:r.1_968_ROS1{NM_002944}:r.5841_7368	cDNA
<b>ROS1</b>	<b>TPM3</b>	TPM3{ENST00000368533}:r.1_319_ROS1{ENST00000368508}:r.5977_7435	cDNA
<b>TACC3</b>	<b>FGFR3</b>	FGFR3{ENST00000440486}:r.1_2530_TACC3{ENST00000313288}:r.1943_2781	cDNA
<b>TACC3</b>	<b>FGFR3</b>	FGFR3{NM_000142}:r.1_2530_TACC3{ENST00000313288}:r.1751_2781	cDNA
<b>TACC3</b>	<b>FGFR3</b>	FGFR3{NM_000142}:r.1_2530_TACC3{ENST00000313288}:r.2048_2781	cDNA
<b>TACC3</b>	<b>FGFR3</b>	FGFR3{NM_000142}:r.1_2530+104_TACC3{ENST00000313288}:r.541_2781	cDNA
<b>TACC3</b>	<b>FGFR3</b>	FGFR3{NM_000142}:r.1_2530+27_TACC3{ENST00000313288}:r.2048-1511_2781	cDNA
<b>TACC3</b>	<b>FGFR3</b>	FGFR3{NM_000142}:r.1_2530+38_TACC3{ENST00000313288}:r.2048-1459_2781	gDNA
<b>TACC3</b>	<b>FGFR3</b>	FGFR3{NM_000142}:r.1_2530+63_TACC3{ENST00000313288}:r.1877_2781	cDNA