

**Supplementary information:**

**Optical properties of all tested fluorophores, according to manufacturer information:**

<b>Fluorophore:</b>	<b><math>\lambda_{\text{max absorption}}</math> (nm)</b>	<b><math>\lambda_{\text{max emission}}</math> (nm)</b>
FAM	494	520
Dy490	491	515
Atto488	501	523
Hex	535	556
Atto532	532	554
Atto-Rho-6G	535	560
Rox	574	602
Dy590	580	599
Atto-Rho-101	586	610
Cy5	649	670
Dy636	647	671
Atto-647-N	646	664
Cy5.5	675	694
Dy682	690	709
Atto680	680	700
Dy-485XL	485	560
Dy-494XL	485	607

### Universal reporter sequences and modification layouts:

Universal Reporter fluorescence spectrum and type (brackets)	Sequence (5'-3')	5'-modification	3'-modification	Internal modification
Green (A)	ATTGCGGGAGATGAGACCCGCAAXTGTTGGTCGTAGAGCCCAGAACGA	Quencher	C3	X = dT-green fluorophore
Yellow (B)	GACCGGCTAAGACGCGCCGGTXTGTTGCACCTGGGACATCGACTAT	Quencher	C3	X = dC-yellow fluorophore
Orange (C)	GACCGCACTAGTAGATGCGGTXTGTCGTGGACCCTGTATCGAGCA	Quencher	C3	X = dC-orange fluorophore
Red (D)	GACCGGCCAAGACGCGCCGGT <u>T</u> *XTGTTCACTGACCGAACTGGAGCA	Quencher	C3	X = dC-red fluorophore  T* = In case the fluorophore was not directly opposite the 5'-quencher, dT-Cy5
Crimson (E)	GACGCGTAGTACAGAACGCGTXTGTTCACTGAGCCTACCTGCCTTC	Quencher	C3	X = dC-crimson fluorophore

## DNA-sequences used in bplex Mediator Probe real-time PCRs:

*ETV6-RUNX1* target sequence (5'-3'):

TGAGGGCAATTGGAGGCTTCTGCTTGGATGAGGCTAAATCCCTAATGGCTTGGTTAATGAGCCGCTGGGATGGAGTAGTTAATGA  
GCCTCAGAAATGTTAAGAAACAAATGTCCTACGTCCAGCTTACAAGGAGAGTCACATCAGAATCAAGGCTAAGCGAAAACATTTAA  
AATAAAAGGTTTATGAGCATGCTAATGGCCCTGTCCTGAAGTTTCCAGCAGCTAATTAATGACCAGACACAGCATAAAGAAGCTTT  
GTCTCAGATTCAGGCCTGTAATTCCATCCTGTGAGCGGTAACGCCATGCAGCCTTCACCTTAGGAGCGGGTAGGAGAGGAAAACA  
GGATTATGGTATTGGAGGCAGGTGTTGCTGGGCCATTTGGACAGAGGAAACCACTCCCAGATTCTCTTTCATTTATTATAAGAAGC  
CCAAATTTGCTTACTTAAGGGAAGAAACCAGTGGAACCAGTGGGAAAAATATCTACAAGTCCCCTGCTGATAAGAGAGTGAGATG  
AATTTGAAACATGGGCACCACATCCATGTTCTTGTAGGCCTGGTTTGTGGTCCAGGGCCAATTGTAAGCTGGGATCACAAGACAG  
ACACTTCTCCAGCAAGCAGACAACAAGGGAAGGTCTGAACTTAAAGCTGCC

Oligonucleotide Description	Sequence (5'-3')
Forward Primer for <i>ETV6-RUNX1</i>	GGGAAGAAACCAGTGGAACCAG
Reverse Primer for <i>ETV6-RUNX1</i>	TGTGGTGCCCATGTTTCAAATTC
Mediator Probe sequence for activation of a type D universal reporter	TCCAGTTCGGTCAGTGTCCCCTGCTGATAAGAGA GTGAGATGAA-C3

*Vd2Dd3* target sequence( 5'-3'):

TGTCAATAGGGATCCCTGCCACCCTCAGGTGCTCCATGAAAGGAGAAGCGATCGGTAACACTACTATATCAACTGGTACAGGAAGAC  
CCAAGGTAACACAATCACTTTCATATAACCGAGAAAAGGACATCTATGGCCCTGGTTTCAAAGACAATTTCCAAGGTGACATTGATAT  
TGCAAAGAACCTGGCTNGTACTTAAGATACTTGCACCATCAGAGAGAGATGAAGGGTCTTACTACTGTGCCTGTGACCCTTCTTAC  
TGGGGGATACGCACAGTGCTACAAAACCTACAGAGACCTGTACAAAACCTGCAGGGGCAAAAGTGCCATTTCCCTGGGATATCCT

CACCCTGGGTCCCATGCCTCAGGAGACAAACACAGCAAGCAGCTTCCCTCCCTGCTTTGGGGCCTGGAAGGGATAGCAGGGAAG  
A

Oligonucleotide Description	Sequence (5'-3')
Forward Primer for <i>Vd2Dd3</i>	ACTGTGCCTGTGACCCTTCTT
Reverse Primer for <i>Vd2Dd3</i>	GCCCCTGCAGTTTTTGTACAGG
Mediator Probe sequence for activation of a type B universal reporter	GATGTCCCAGGTGCACTGGGGGATACGCACAGT GCTACA-C3