



Modifications

Fluorophores	5'	Int	3'	Ex.	Em.	Alternative
6-FAM (Fluorescein)	x		x	495	520	DY-490, DY-495,
Fluorescein dT		x		495	520	DY-490, DY-495
BDP FL	x		x	503	509	N/A
TET™	x			522	539	CAL Fluor® Gold 540
Yakima Yellow®	x			524	551	CAL Fluor® Orange 560
JOE	x	x	x	529	555	CALFluor® Gold 540, Orange 560
HEX	x		x	538	555	CAL Fluor® Orange 560
Cy3™	x	x	x	550	564	Atto 542, DY-530
TAMRA	x	x	x	559	583	CAL Fluor® Red 590, DY-560,
TAMRA dT		x		559	583	CAL Fluor® Red 590, DY-560,
ROX	x	x		588	608	ATTO™ Rho101
Texas Red®	x	x	x	596	613	CALFluor® Red 610, Atto Rho101
Cy5™	x	x	x	648	668	Atto 647N
Cy5.5™	x	x	x	685	706	5' IRDye®. 700Atto 680, Atto 700, DY-675, DY-676, DY-679P1, DY-680, DY-681, DY-682
Quasar 670	x		x	647	670	ATTO™ 647N / CY5
Quasar 705	x			690	705	5' IRDye® 700 / CY5.5
CAL Fluor® Gold 540	x			522 nm	544 nm	VIC, TET JOE
CAL Fluor® Orange 560	x			538 nm	559 nm	VIC, HEX JOE
CAL Fluor® Red 590	x			569 nm	591 nm	TAMRA
CAL Fluor® Red 610	x		x	590 nm	610 nm	Texas Red®
CAL Fluor® Red 635	x			618 nm	637 nm	LC RED 640®
LC Red® 610	x	x	x	590 nm	610nm	Atto Rho101, CAL Fluor® Red 610, Cy3.5, DY-594
LC Red® 640	x	x	x	625nm	640 nm	Atto 610, Atto 620, CAL Fluor® Red 635, DY-615
5' IRDye® 700	x			684	702	Atto 680, Atto 700, DY-675, DY-676
5' IRDye® 800	x			791	809	DY-781, DY-782
DY-480XL	x	x	x	504	631	N/A
DY-510XL	x	x	x	512	590	N/A
Cyan™ 500	x	x	x	450	495	Fam
ATTO™ 488	x	x	x	502	522	Fam
ATTO™ 495	x	x	x	498	526	Fam
ATTO™ 550	x	x	x	560	575	CY3
ATTO™ 565	x	x	x	570	591	LC Red® 610
ATTO™ Rho12	x	x	x	577	600	Texas Red®
ATTO™ Rho101	x	x	x	592	609	ROX
ATTO™ Rho13	x	x	x	603	627	Texas Red®
ATTO™ 590	x	x	x	602	624	Texas Red®
ATTO™ 620	x	x	x	620	642	LC RED 640®
ATTO™ 647N	x	x	x	649	662	Quasar 670



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Modifications

Quenchers	5'	Int	3'
BHQ [®] 1	x	x	x
BHQ [®] 2	x	x	x
BHQ [®] 3	x		x
Dabcyl	x	x	x
Eclipse			x
Pulsar650 [®]			x

Others	5'	Int	3'
Amino Modifier C6	x		x
Amino Modifier C6 dT		x	
Amino Modifier C12	x		
Abasic I / II	x	x	x
Azide	x		
Biotin	x		x
Biotin-dT		x	
Biotin-TEG	x	x	
Cholesteryl	x		
Hexenyl	x		
Thiol-Modifier C6 S-S	x		x
Thiol-Modifier C6 SH	x		x
Phosphorylation	x		x
Phosphine	x		
PEG	x	x	x
Psoralen	x		
Maleminimid	x		
SpacerC3	x	x	x
Spacer-TEG	x	x	x
SpacerC12	x	x	x
Spacer-HEG	x	x	x
dSpacer		x	
EdU / EdU(Tips)		x	
dU		x	
Br-dU		x	
F-dU		x	
pdC / pdU		x	
dK / dP		x	
dNaM		x	
ddC			x
dT, dA, dG, dC-revQ	x	x	x
O6-Methyl-dG		x	
C8-Alkyne-dT		x	x
methyl-dC		x	
hydroxy-methyl-dC		x	
Inosin		x	x
double Branching	x		
triple Branching	x		