

Modification Values					
Short Name	Full Name	Position	Extinction Coefficient at 260 nm (/M/cm)	MW upon addition to an oligo	MW Modifier
*	Phosphorothioate Bond, per base	Internal	0		None
BHQ-1	BHQ-1 Dark Quencher	Internal	8000	490.51	None
BHQ-2	BHQ-2 Dark Quencher	Internal	8000	492.48	None
dSpacer	dSpacer; THF	Internal	0	116.12	None
d-Uridine	d-Uridine	Internal	8400	226.19	None
I	d-Inosine	Internal	12010	250.21	None
MeOA	2'-O-Methoxy-Adenosine	Internal	15400	279.25	None
MeOC	2'-O-Methoxy-Cytidine	Internal	7200	255.23	None
MeOG	2'-O-Methoxy-Guanosine	Internal	11500	295.25	None
MeOU	2'-O-Methoxy-Uridine	Internal	9900	256.21	None
rA	Adenosine (RNA)	Internal	15400	265.23	None
rC	Cytidine (RNA)	Internal	7200	241.2	None
rG	Guanosine (RNA)	Internal	11500	281.23	None
rU	Uridine (RNA)	Internal	9900	242.19	None
pdU	propyne-Uridine	Internal	8400	264.23	None
pdC	propyne-Cytidine	Internal	7050	263.25	None
Spacer 18	Spacer 18 (PEG)	Internal	0	280.31	None
Spacer 3	Spacer 3 (C3)	Internal	0	74.08	None
Spacer 6	Spacer 6 (C6)	Internal	0	116.16	None
Spacer 9	Spacer 9 (PEG)	Internal	0	148.16	None
T(BHQ-1)	BHQ-1 Dark Quencher, on T	Internal	30100	896.94	None
T(BHQ-2)	BHQ-2 Dark Quencher, on T	Internal	26100	898.92	None
T(Biotin)	Biotin, on T	Internal	8400	620.72	None
T(C6-Amino)	C6-Amino, on T	Internal	8400	394.42	None
T(CAL Fluor Orange 560)	CAL Fluor Orange 560, on T	Internal	36500	892.01	None
T(CAL Fluor Red 590)	CAL Fluor Red 590, on T	Internal	29300	921.07	None
T(CAL Fluor Red 610)	CAL Fluor Red 610, on T	Internal	70700	969.11	None
T(CAL Fluor Red 635)	CAL Fluor Red 635, on T	Internal	44900	1094.11	None
T(Dabsyl)	Dabsyl, on T	Internal	15683	681.76	None
T(FAM)	Fluorescein, on T	Internal	25500	752.72	None
T(Methylene Blue)	Methylene Blue, on T	Internal	18700	732.87	None
T(Quasar 570)	T(Quasar 570)	Internal	20000	848.06	None
T(Quasar 670)	T(Quasar 670)	Internal	11200	874.1	None
T(TAMRA)	TAMRA, on T	Internal	40380	806.86	None
5-TAMRA	5-TAMRA	5'	31600	612.78	None
Amino C12	Amino C12 Linker	5'	0	199.33	1 Proton
Amino C6	Amino C6 Linker (Ahex)	5'	0	115.17	1 Proton
BHQ-1	BHQ-1 Dark Quencher	5'	8000	490.51	1 Proton
BHQ-2	BHQ-2 Dark Quencher	5'	8000	492.48	1 Proton
BHQ-3	BHQ-3 Dark Quencher	5'	13000	533.64	1 Proton

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Biotin	Biotin	5'	0	330.42	1 Proton
CAL Fluor Gold 540	CAL Fluor Gold 540	5'	15100	469.55	None
CAL Fluor Orange 560	CAL Fluor Orange 560	5'	15000	497.63	None
CAL Fluor Red 590	CAL Fluor Red 590	5'	20900	525.68	None
CAL Fluor Red 610	CAL Fluor Red 610	5'	18800	573.72	None
CAL Fluor Red 635	CAL Fluor Red 635	5'	36500	698.72	None
DABCYL	DABCYL	5'	7283	367.46	None
FAM	FAM	5'	26900	474.48	None
HEX	6-HEX	5'	31580	681.15	None
Phos	Phosphate	5'	0	16	1 Counter Ion
Quasar 570	Quasar 570	5'	9000	557.77	None
Quasar 670	Quasar 670	5'	2800	583.8	None
Quasar 705	Quasar 705	5'	15600	683.92	None
Spacer 18	Spacer 18 (PEG)	5'	0	280.31	1 Proton
Spacer 3	Spacer 3 (C3)	5'	0	74.08	None
Spacer 6	Spacer 6 (C6)	5'	0	116.16	1 Proton
Spacer 9	Spacer 9 (PEG)	5'	0	148.16	None
T(BHQ-1)	BHQ-1 Dark Quencher, on T	5'	30100	896.94	1 Proton
T(BHQ-2)	BHQ-2 Dark Quencher, on T	5'	26100	898.92	1 Proton
T(C6-Amino)	C6-Amino, on T	5'	8400	394.42	1 Proton
T(C6-Biotin)	C6-Biotin, on T	5'	8400	620.72	1 Proton
T(JOE)	JOE, on T	5'	39400	881.66	1 Proton
T(Methylene Blue)	Methylene Blue, on T	5'	18700	732.87	1 Proton
T(ROX)	ROX, on T	5'	38500	911.01	1 Proton
TET	6-TET	5'	16255	612.26	None
Thiol C6 SS	Thio C6 Linker (Thiohexyl)	5'	0	264.45	1 Proton
Amino C7	Amino C7	3'	0	145.2	1 Proton
BHQ-0	BHQ-0 Dark Quencher	3'	8000	415.49	1 Proton
BHQ-1	BHQ-1 Dark Quencher	3'	8000	490.51	1 Proton
BHQ-2	BHQ-2 Dark Quencher	3'	8000	492.48	1 Proton
BHQ-3	BHQ-3 Dark Quencher	3'	13000	533.64	1 Proton
Biosearch Blue	Biosearch Blue	3'	3260	304.3	1 Proton
Biotin	C3(Biotin)	3'	0	315.39	1 Proton
C3-Fluorescein	Fluorescein-C3	3'	26900	447.39	1 Proton
CAL Fluor Orange 560	CAL Fluor Orange 560, Ser Linker	3'	18800	699.84	1 Proton
CAL Fluor Red 610	CAL Fluor Red 610, Ser Linker	3'	18400	802.98	1 Proton
DABCYL	DABCYL	3'	14333	693.79	1 Proton
d-Uridine	d-Uridine	3'	8400	226.19	1 Proton
mdC(ROX)	ROX	3'	37150	1038.07	2 Counter Ions
mdC(TEG-Amino)	mdC(TEG-Amino)	3'	7050	442.51	1 Proton
Methylene Blue	Methylene Blue, on C7	3'	10300	483.65	1 Proton
Phos	Phosphate	3'	0	16	1 Counter Ion
Pulsar 650	Pulsar 650	3'	31500	1052.15	1 Proton
Quasar 570	Quasar 570	3'	9000	542.73	1 Proton
Quasar 670	Quasar 670	3'	2800	568.77	1 Proton
Quasar 705	Quasar 705	3'	17000	668.89	1 Proton

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Spacer 6	Spacer 6 (C6)	3'	0	116.16	1 Proton
Spacer C3	Spacer 3 (C3)	3'	0	74.08	None
T(C6-Amino)	C6-Amino, on T	3'	8400	473.39	2 Counter Ions
T(C6-Biotin)	C6-Biotin, on T	3'	8400	699.69	2 Counter Ions
T(CAL Fluor Gold 540)	CAL Fluor Gold 540, on T	3'	22800	1005.01	1 Counter Ion
T(CAL Fluor Orange 560)	CAL Fluor Orange 560, on T	3'	28500	1030.07	1 Counter Ion
T(CAL Fluor Red 590)	CAL Fluor Red 590, on T	3'	29300	1059.13	1 Counter Ion
T(CAL Fluor Red 610)	CAL Fluor Red 610, on T	3'	27300	1107.17	1 Counter Ion
T(CAL Fluor Red 635)	CAL Fluor Red 635, on T	3'	44900	1232.17	1 Counter Ion
T(Methylene Blue)	Methylene Blue, on T with C3	3'	18700	870.93	1 Counter Ion
TAMRA	TAMRA	3'	39030	933.92	2 Counter Ions
Thiol C6 SS	Thio C6 Linker (Thiohexyl)	3'	0	264.45	1 Proton

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