

Fluorescent Dye	Abs	Em	Ext. Coeff.	MW	Labelling Pos.			Purification Option			Alternative to
					5'	Int	3'	HPSF	HPLC	PAGE	
Alexa Fluor 350 [Alexa350]	346	442	19.000	409,35	x	x	x		x		AMCA
Dy-415 [DY415]	418	467	34.000	552,00	x	x	x		x		Coumarin (DEAC)
ATTO 425 [ATTO425]	436	484	45.000	499,00	x	x	x		x		Alexa Fluor 425
ATTO 465 [ATTO465]	453	508	75.000	393,00	x	x	x		x		LC 480 Cyan 500
Bodipy FL [BOFL]	504	510	70.000	391,30	x	x	x		x		
Alexa Fluor 488 [Alexa488]	495	519	71.000	630,00	x	x	x		x		CY2 DY-495 ATTO 495
FAM [FAM]	495	520	83.000	474,50	x			x	x	x	CY2 DY-495 ATTO 495
Fluorescein isothiocyanate [FITC]	495	520	73.000	505,00	x	x	x		x		CY2 DY-495 ATTO 495
Fluorescein [FLU]	495	520	83.000	504,00			x		x		DY-495 ATTO 495
Fluorescein-dT [FLUdT]	494	522	75.000	472,71		x			x		DY-495 ATTO 495
ATTO 488 [ATTO488]	501	523	90.000	687,00	x	x	x		x		Cy2
Oregon Green 488 [OG488]	496	524	76.000	510,00	x	x	x		x		Cy2
Oregon Green 514 [OG514]	506	526	85.000	609,40	x	x	x		x		Cy2
Rhodamine Green [RGR]	503	528	74.000	472,00	x	x	x		x		Cy2
TET [TET]	521	536	73.000	612,30	x			x	x	x	CAL Fluor Gold 540
ATTO 520 [ATTO520]	516	538	110.000	464,00	x	x	x		x		CAL Fluor Gold 540 Rhodamine 6G
JOE [JOE]	520	548	73.000	603,40	x	x	x		x		CAL Fluor Gold 540 Rhodamine 6G
Yakima Yellow [YAKYE]	530	549	84.000	654,30	x				x		VIC CAL Fluor 560
Bodipy 530/550 [BO530]	534	551	77.000	514,31	x	x	x		x		VIC CAL Fluor 560
HEX [HEX]	535	556	73.000	681,20	x			x	x	x	VIC CAL Fluor 560 SIMA
Alexa Fluor 555 [Alexa555]	555	565	150.000	940,00	x	x	x		x		Cy3 TRITC & TMR Alexa Fluor 546
Dy-549 [DY549]	553	566	150.000	916,00	x	x	x		x		Quasar 570 Dragonfly Orange
Bodipy TMR-X [BOTMRX]	544	570	56.000	610,55	x	x	x		x		Quasar 570 Dragonfly Orange
Cyanine3 [CY3]	552	570	150.000	444,60	x			x	x		Quasar 570 Dragonfly Orange TYE 563
ATTO 550 [ATTO550]	554	576	120.000	691,00	x	x	x		x		NED Cy3 Rhodamine B & 6G
TAMRA [TAM]	544	576	90.000	512.58 / 612.70	x		x		x		Rhodamine 6G Rhodamine B
Rhodamine Red [RRE]	560	580	129.000	770,00	x	x	x		x		Rhodamine 6G Rhodamine B
ATTO 565 [ATTO565]	563	592	120.000	608,00	x	x	x		x		PET Alexa Fluor 594

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					5'	Int	3'	HPSF	HPLC	PAGE	
ROX [ROX]	575	602	82.000	632,78	x	x	x		x		Texas Red Alexa Fluor 594
Texas Red [TxRed]	583	603	116.000	818,00	x	x	x		x		ROX™ Alexa Fluor 594
Cyanine3.5 [CY35]	588	604	150.000	544,70	x				x		Alexa Fluor 594 CAL Fluor Red 610
LightCycler 610 [LC610]	590	610	n.a.	761,48	x	x	x		x		Alexa Fluor 594 CAL Fluor Red 610
ATTO 594 [ATTO594]	601	627	120.000	903,00	x	x	x		x		Alexa Fluor 594 CAL Fluor Red 610
DY-480 XL [DY480]	500	630	50.000	612,68	x	x	x		x		
DY-610 [DY610]	610	630	80.000	743,00	x	x	x		x		Alexa Fluor 610
ATTO 610 [ATTO610]	615	634	150.000	488,00	x	x	x		x		Alexa Fluor 610
LightCycler 640 [LC640]	625	640	n.a.	824,68	x	x	x		x		
Bodipy 630/650 [BO630]	625	640	101.000	662,60	x	x	x		x		Alexa Fluor 633
ATTO 633 [ATTO633]	629	657	130.000	649,00	x	x	x		x		LIZ Alexa Fluor 633
Alexa Fluor 647 [Alexa647]	650	665	239.000	957,00	x	x	x		x		Cy5 Quasar 670
Bodipy 650/665 [BO650]	650	665	101.000	645,60	x	x	x		x		Cy5 Quasar 670
ATTO 647N [ATTO647N]	644	669	150.000	743,00	x	x	x		x		Cy5 Quasar 670
Cyanine5 [CY5]	649	670	250.000	470,63	x			x	x		Quasar 670 TYE 655
DY-649 [DY649]	655	674	250.000	942,00	x	x	x		x		Quasar 670
Cyanine5.5 [CY55]	675	694	250.000	570,74	x				x		Alexa Fluor 680 TYE 705
ATTO 680 [ATTO680]	680	700	125.000	623,00	x	x	x		x		Alexa Fluor 680 Alexa Fluor 700
DY-682 [DY682]	690	709	140.000	906,00	x	x	x		x		IRDye 700 Quasar 705
ATTO 700 [ATTO700]	700	719	120.000	663,00	x	x	x		x		IRDye 700 Quasar 705
ATTO 740 [ATTO740]	740	764	120.000	565,00	x	x	x		x		Cy7 Alexa Fluor 740
DY-782 [DY782]	782	800	170.000	932,00	x	x	x		x		IRDye 800

Abs: Absorption = Peak excitation wavelength [nm]

Em: Emission = Peak emission wavelength [nm]

Ext. Coeff.: Molar extinction coefficient [$M^{-1}cm^{-1}$]

MW: Molecular weight [g/mol] of the dye labelled on 3' and 5' end of an oligonucleotide. For internal labelling 279 g/mol for the Amino linker needs to be added.

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