

FLUORESCENT DYES & QUENCHERS

FOR CUSTOM DNA AND RNA LABELING

Fluorescent labels	Abs [nm]	Em [nm]	ε [cm ² M ⁻¹]	Alternative for	Azide for Labeling via Click-Chemistry	Fluorescent labels	Abs [nm]	Em [nm]	ε [cm ² M ⁻¹]	Alternative for	Azide for Labeling via Click-Chemistry	Fluorescent labels	Abs [nm]	Em [nm]	ε [cm ² M ⁻¹]	Alternative for	Azide for Labeling via Click-Chemistry			
Abberior [®] FLIP 565 ¹⁾	NEW	314	580	51000		DY [®] 547P1	NEW	551	565	150000		DY [®] 650		653	674	220000				
Pyrene		340	376	43000		DY [®] 554		551	572	100000	Alexa Fluor [®] 546		DY [®] 654		653	677	220000		✓	
Alexa Fluor [®] 350		346	442	19000		Eterneon [™] Yellow 555 Azide	NEW	551	564	77000	Cyanine 3	✓	DY [®] 652		654	675	220000			
DY [®] 350 XL ¹⁾	NEW	349	610	16000		Oyster [®] 550		551	570	150000	Cyanine 3, Alexa Fluor [®] 555	✓	DY [®] 649P1		655	676	250000	Alexa Fluor [®] 647		
Eterneon [™] 350/430 ¹⁾		350	430	15220		TAMRA, 5/6-isomer		551	582	91000			DY [®] 651		656	678	220000			
Eterneon [™] 350/455 ¹⁾		350	455	27300		Abberior [®] CAGE 552 ⁴⁾	NEW	552	574	66000			ATTO [®] MB2 (redox)		658	none	110000			
DY [®] 350		353	432	19000	Alexa Fluor [®] 350						✓	Alexa Fluor [®] 660		663	690	132000				
DY [®] 360 XL ¹⁾	NEW	362	459	25000		Oyster [®] 555		552	572	150000	Cyanine 3, Alexa Fluor [®] 555		ATTO [®] 655 (hydrophil)		663	684	125000	Cyanine 5, Alexa Fluor [®] 647	✓	
DY [®] 370 XL ¹⁾	NEW	368	473	13200		DY [®] 550		553	578	120000			ATTO [®] 665		663	684	160000		✓	
DY [®] 375 XL ¹⁾	NEW	376	543	16000		ATTO [®] 550		554	576	120000	Cyanine 3, Alexa Fluor [®] 555	✓	ATTO [®] Oxa12 (lipophil)		663	684	125000	Cyanine 5, Alexa Fluor [®] 647		
DY [®] 380 XL ¹⁾	NEW	381	510	22000		Alexa Fluor [®] 555		555	565	150000	Cyanine 3, Alexa Fluor [®] 546	✓	Methylene Blue (on request)		665	690	93000		✓	
Eterneon [™] 384/480 ¹⁾		384	480	18000		Cyanine 3		555	570	150000	Alexa Fluor [®] 546	✓	Cyanine 5.5		673	707	209000			
ATTO [®] 390		390	479	24000		TAMRA, 6-isomer		555	585	91000		✓	DY [®] 677		673	694	180000			
Eterneon [™] 393/523 ¹⁾		393	523	27680		Alexa Fluor [®] 546		556	573	104000	Cyanine 3		DY [®] 675		674	699	180000			
Eterneon [™] 394/507 ¹⁾		394	507	30000		DY [®] 548		558	572	150000		✓	DY [®] 676		674	699	180000			
DY [®] 395 XL ¹⁾	NEW	396	572	20000		DY [®] 560		559	578	120000		✓	DY [®] 678		674	694	180000			
DY [®] 405		400	423	32000	Alexa Fluor [®] 405		ATTO [®] 565		563	592	120000	Cyanine 3.5, ROX, Alexa Fluor [®] 594	✓	Oyster [®] 680		674	693	250000	Cyanine 5.5, Alexa Fluor [®] 680	
Alexa Fluor [®] 405		401	421	34000		ATTO [®] Rho3B		564	592	120000			Eterneon [™] Far Red 680 Azide	NEW	677	701	195000	Cyanine 5.5	✓	
DY [®] 415		418	467	34000	Alexa Fluor [®] 430		ATTO [®] Rho11		571	595	120000			Alexa Fluor [®] 680		679	702	184000	Cyanine 5.5	
Abberior [®] STAR 440SX		432	511	33000		Eterneon [™] Orange 570 Azide	NEW	573	612	50000		✓	DY [®] 679P1		679	697	200000			
ATTO [®] 430LS ¹⁾	NEW	433	547	32000		ATTO [®] Rho12		576	601	120000					680	700	125000	Cyanine 5.5, Alexa Fluor [®] 647, Alexa Fluor [®] 680, Alexa Fluor [®] 700	✓	
Alexa Fluor [®] 430 ¹⁾		433	541	16000		Carboxy-X-rhodamine (ROX), 6-isomer		576	601	82000	Alexa Fluor [®] 568	✓	DY [®] 680		690	709	140000	Cyanine 5.5		
ATTO [®] 425		436	484	45000	Alexa Fluor [®] 425		Alexa Fluor [®] 568		578	603	91000	ROX, Cyanine 3.5		DY [®] 681		691	708	140000		✓
DY [®] 431	NEW	442	496	35000		ATTO [®] Thio12		579	609	110000			DY [®] 682		692	709	140000	Alexa Fluor [®] 680	✓	
DY [®] 430	NEW	444	487	35000		DY [®] 590		580	599	120000			ATTO [®] 700		700	719	120000	Cyanine 5.5	✓	
ATTO [®] 465		453	508	75000		DY@ 591		581	598	120000			Alexa Fluor [®] 700		702	723	192000			
Abberior [®] STAR 470SX		467	598	25000		Eterneon [™] Orange 580 Azide	NEW	581	605	75000	Cyanine 3.5	✓	DY [®] 703		705	721	140000			
DY [®] 478	NEW	478	518	90000		Sulforhodamine 101		584	603	116000		✓	DY [®] 701		706	731	140000	Alexa Fluor [®] 700		
Eterneon [™] 480/635 ¹⁾		480	635	29900		Abberior [®] CAGE 590 ⁴⁾	NEW	586	607	43800			DY [®] 704		706	721	140000			
DY [®] 485 XL ¹⁾		485	560	50000		ATTO [®] Rho101		586	610	120000	ROX		DY [®] 700		707	730	140000			
Chromo [™] 488		488	517	73000	Alexa Fluor [®] 488		Abberior [®] STAR 580		587	607	72000		ATTO [®] 725		725	752	120000		✓	
DY [®] 490		491	515	73000		Alexa Fluor [®] 594		590	617	73000	Cyanine 3.5	✓	DY [®] 730		732	758	240000			
FAM-5-EX		492	516	70000		Cyanine 3.5		591	604	116000	Alexa Fluor [®] 594		DY [®] 731		736	760	240000			
DY [®] 495		493	521	70000		Eterneon [™] Red 600 Azide	NEW	593	624	50000		✓	DY [®] 732		736	759	240000			
Oyster [®] 488		494	518	80000	Alexa Fluor [®] 488		ATTO [®] 590		594	624	120000	Alexa Fluor [®] 594	✓	DY [®] 734		736	759	240000		
Chromo [™] 494		494	628	55000		DY [®] 594		594	615	92000	Alexa Fluor [®] 594	✓	ATTO [®] 740		740	764	120000	Cyanine 7, Alexa Fluor [®] 740	✓	
FAM, 5-isomer		494	520	78000		ATTO [®] Rho13		600	625	120000			DY [®] 750		747	776	270000			
ATTO [®] 495		495	527	80000	Alexa Fluor [®] 488		DY [®] 605		600	624	110000	Alexa Fluor [®] 610		DY [®] 752		748	772	270000		
FAM, 5/6-isomer		495	519	81000		ATTO [®] 594		601	627	120000	Alexa Fluor [®] 594	✓	DY [®] 754		748	771	270000	Alexa Fluor [®] 750		
Alexa Fluor [®] 488 ²⁾		496	519	73000	Cyanine 2		Abberior [®] STAR 600	NEW	604	627	43500		Alexa Fluor [®] 750		749	775	240000	Cyanine 7		
ATTO [®] 490LS ¹⁾	NEW	496	661	40000		DY [®] 601 XL ¹⁾	NEW	606	663	85000			Cyanine 7		750	773	241000			
FAM, 6-isomer		496	516	83000		DY [®] 610		610	630	80000	Alexa Fluor [®] 610		DY [®] 751		751	779	270000			
DY [®] 480 XL ¹⁾		500	630	50000		Alexa Fluor [®] 610-X		612	628	144000			DY [®] 749P1		759	780	240000		✓	
ATTO [®] 488		501	523	90000	Alexa Fluor [®] 488, Cyanine 2		ATTO [®] 610		615	634	150000	Alexa Fluor [®] 610 X, Alexa Fluor [®] 610		DY [®] 778		767	787	240000		
IBApy 493/503 ¹⁾		501	510	88000		ATTO [®] 620		619	643	120000			DY [®] 777		770	788	240000			
IBApy FL ¹⁾		502	508	79000		DY [®] 615		621	641	200000			DY [®] 776		771	793	240000			
Abberior [®] STAR 488		503	524	64500		ATTO [®] Rho14		625	646	140000			DY [®] 800	NEW	777	791	280000		✓	
Rhodamine 110X		505	530	85000		ATTO [®] 633		629	657	130000	Alexa Fluor [®] 633	✓	DY [®] 780		782	800	170000			
DY [®] 505		505	530	80000		Eterneon [™] Red 630 Azide	NEW	629	646	113000		✓	DY [®] 781		783	800	170000			
DY [®] 510 XL ¹⁾		509	590	50000		Abberior [®] CAGE 635 ⁴⁾	NEW	630	653	110000			DY [®] 782		783	800	170000		✓	
DY [®] 511 XL ¹⁾	NEW	510	595	47000		Alexa Fluor [®] 633		632	647	239000			Alexa Fluor [®] 790		784	814	270000	PBS		
Abberior [®] CAGE 500 ⁴⁾	NEW	511	525	50000		Abberior [®] STAR 635P		635	651	125000		✓	DY [®] 831		844	875	220000			
ATTO [®] 514		511	533	115000		DY [®] 634		635	658	200000	Alexa Fluor [®] 633									
Abberior [®] STAR 520SXP	NEW	515	612	60000	DY [®] 520 XL, DY [®] 521 XL		DY [®] 630		636	657	200000									
DY [®] 481 XL ¹⁾		515	650	50000		DY [®] 631		637	658	200000										
Eterneon [™] Green 515 Azide	NEW	515	539	50000		DY [®] 632		637	657	200000										
ATTO [®] 520		516	538	110000	JOE, TET		DY [®] 633		637	657	200000									
DY [®] 520 XL ¹⁾		520	664	50000		Abberior [®] STAR RED	NEW	638	655	2										