

# Double Labeled Probe LINEUP

LC® = LightCycler®  
 TQ™ = Tide Quencher™  
 BBQ® = BlackBerry® Quencher  
 SR101 = Sulfo-rhodamine 101

		Quencher	TQ™ 1	Dabcyl	BHQ-0®	TQ™ 2	BHQ-1®	ATTO540Q	TAMRA	ATTO 575Q	ATTO 580Q	TQ™ 3	ATTO 612Q	BHQ-2®	TQ™ 4	BBQ-650®	TQ™ 5	BHQ-3®	TQ™ 6	TQ™ 7
		Quenching Range (nm)	380-530	430-520	480-580	480-580	500-565	520-570	530-605	535-610	550-650	555-640	560-670	550-750	620-730					
		Abs max (nm)	490	453	520	534	543		582	587	570	615	579	610	650	670	672	700	760	
Fluorophore	Tide Fluor™ 1	345 / 442	●																	
	ATTO 390	390 / 476	●	●																
	ATTO 425	439 / 485	●	●	●															
	LC@480Cyan500	450 / 500	●	●	●															
	ATTO 465	453 / 506	●	●	●		●													
	6FAM	494 / 525		●	●	●	●	●	●											
	ATTO 488	500 / 520		●	●	●	●	●	●											
	Tide Fluor™ 2	500 / 527		●	●	●	●	●	●											
	ATTO 495	498 / 526				●	●	●	●											
	ATTO 514	511 / 532				●	●	●	●	●										
	ATTO 520	517 / 538				●	●	●	●	●	●									
	TET	519 / 539				●	●	●	●	●	●									
	JOE	520 / 548				●	●	●	●	●	●									
	CAL Fluor 540	522 / 541				●	●	●	●	●	●									
	Yakima Yellow	530 / 549				●	●	●	●	●	●									
	ATTO 532	532 / 552				●	●	●	●	●	●									
	ATTO Rho6G	533 / 557				●	●	●	●	●	●									
	HEX	535 / 556				●	●	●	●	●	●									
	LC@Yellow555	535 / 568				●	●	●	●	●	●									
	CAL Fluor 560	537 / 558				●	●	●	●	●	●									
	ATTO 542	542 / 562								●	●	●	●	●						
	Quasar®570	548 / 570								●	●	●	●	●						
	Cyanine-3	552 / 565								●	●	●	●	●			●			
	ATTO 550	554 / 576								●	●	●	●	●			●			
	TAMRA	555 / 580								●	●	●	●	●			●			
	Tide Fluor™ 3	555 / 584								●	●	●	●	●			●			
	ATTO 565	564 / 590								●	●	●	●	●		●	●			
	ATTO Rho3B	566 / 589								●	●	●	●	●		●	●			
	ROX	568 / 595								●	●	●	●	●		●	●			
	ATTO Rho11	572 / 595								●	●	●	●	●		●	●			
	ATTO Rho12	576 / 601								●	●	●	●	●		●	●			
	Cyaine-3.5	581 / 596								●	●	●	●	●		●	●			
	ATTO Thio12	582 / 607									●	●	●	●		●	●			
	ATTO Rho101	587 / 609									●	●	●	●		●	●			
	LC@Red610	590 / 610										●	●	●		●	●			
	CAL Fluor 610	590 / 610											●	●		●	●			
	Tide Fluor™ 4	590 / 618											●	●		●	●			
	ATTO 590	593 / 622											●	●		●	●			
	TexasRed(SR101)	595 / 615											●	●		●	●			
	ATTO 594	603 / 626											●	●		●	●			
ATTO Rho13	603 / 627											●	●		●	●				
ATTO 610	616 / 633											●	●		●	●				
LC@Red670	615 / 670												●		●	●	●			
ATTO 620	620 / 642												●		●	●				
LC@Red640	625 / 640												●		●	●				
ATTO Rho14	626 / 646												●		●	●				
ATTO 633	630 / 651												●		●	●				

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Quenching Range (nm)			380-530	430-520	480-580	480-580	500-565	520-570	530-605	535-610	550-650	555-640	560-670		550-750		620-730		
Abs max (nm)		490	453		520	534	543		582	587	570	615	579	610	650	670	672	700	760
Fluorophore	ATTO 647	647 / 667											●		●	●			
	ATTO 647N	646 / 664											●		●	●			
	Quasar®670	647 / 670											●		●	●	●		
	Tide Fluor™ 5	649 / 664											●		●	●	●		
	Cyanine-5	650 / 667											●		●	●	●		
	ATTO 655	663 / 680											●		●	●	●	●	
	ATTO Oxa12	662 / 681											●		●	●	●	●	
	ATTO 665	662 / 680											●		●	●	●	●	●
	Tide Fluor™ 6	676 / 695											●		●	●	●	●	●
	Cyanine-5.5	678 / 703											●		●	●	●	●	●
	ATTO 680	681 / 698											●		●	●	●	●	●
	LC®Red705	685 / 705											●		●	●	●	●	●
	Quasar®705	690 / 705											●		●	●	●	●	●
	ATTO 700	700 / 716													●	●	●	●	●
	ATTO 725	728 / 751																●	●
	ATTO 740	743 / 763																●	●
Tide Fluor™ 7	749 / 775																●	●	
Tide Fluor™ 8	775 / 807																	●	

※弊社、日本遺伝子研究所は

ATTO-TEC GmbH より ATTO-Dye および ATTO-Quencher の使用許諾を得ております。

AAT Bioquest, Inc. より Tide Fluor™(TFTM) および Tide Quencher™(TQTM) の使用許諾を得ております。

Roche Diagnostics GmbH より LightCycler®-labelingの使用許諾を得ております。

BIOSEARCH TECHNOLOGIES, INC より The Black Hole Quencher® (BHQ®) の使用許諾を得ております。

BIOSEARCH TECHNOLOGIES, INC より CAL® Fluor と Quasar®-labelingの使用許諾を得ております。