Fluorophore selection guide BD FACSDiscover S8 Cell Sorter

aser	Channel	Channel start-end (nm)	Recommended Invitrogen [™] dye for antibody conjugates	Abs/Em (nm)	Relative brightne
	UV1–UV2	365–400			
	UV3	410-425	Brilliant Ultra Violet [™] 395 Dye	347/399	Low
	UV4–UV6	425-495		0.40/400	B.A.s. I'
	UV7 UV8–UV10	495–510 510–555	Brilliant Ultra Violet™ 496 Dye	348/493	Medium
	UV11	570-585	Brilliant Ultra Violet™ 563 Dye	349/563	Medium
	111/12	585-600		043/300	Wedduni
JItraviolet	UV13	600-620	Brilliant Ultra Violet [™] 615 Dye	350/607	High
349 nm	UV14	620-640			
543 IIII	UV15	640-660	Brilliant Ultra Violet [™] 661 Dye	349/659	High
		660–710			
	UV18	710–740	Brilliant Ultra Violet [™] 737 Dye	350/740	High
	UV19	740-770	eBioscience [™] NovaFluor [™] UltraViolet 765 Dye	358/763	Medium
	UV20 UV21	770-800		0.40/00.4	M a aliuna
	UV21 UV22	800-830 830-860	Brilliant Ultra Violet [™] 805 Dye	349/804	Medium
	V1	410-430	Brilliant Violet [™] 421 Dye	406/423	High
			eBioscience [™] Super Bright [™] 436 Dye	413/431	High
	V2	430-450	eBioscience™ eFluor™ 450 Dye	405/445	Low
	V3	450-475	Pacific Blue [™] Dye	404/455	Low
	V4	475–495	Brilliant Violet [™] 480 Dye	437/478	Medium
	V5	495–510			
	V6	510-525	eBioscience™ eFluor™ 506 Dye	419/508	Low
	V7–V8 V9	525-555	Pacific Oranga [™] Dua	400/551	
	V9 V10	570-585 585-600	Pacific Orange [™] Dye	400/551	Low
			eBioscience [™] Super Bright [™] 600 Dye	414/601	Low
/iolet	V11	600–620	Brilliant Violet [™] 605 Dye	405/605	Medium
105 nm	V12	620–640	eBioscience™ Super Bright™ 645 Dye	414/645	Low
	V13	640-660	Brilliant Violet [™] 650 Dye	407/646	High
	V14	660–680			
			eBioscience [™] NovaFluor [™] Violet 690 Dye	408/691	Medium
	V15	680–710	eBioscience [™] Super Bright [™] 702 Dye	413/702	Medium
	140	740 740	Brilliant Violet [™] 711 Dye	406/711	Low
	V16 V17	710–740 740–770	eBioscience [™] NovaFluor [™] Violet 745 Dye	391/743	Low
			eBioscience [™] Super Bright [™] 780 Dye	413/780	High
	V18	770-800	Brilliant Violet [™] 786 Dye	406/788	High
	V19	800-830	eBioscience [™] NovaFluor [™] Violet 800 Dye	408/800	Low
	V20	830-860			
	B1	495–510			
	B2	510-525	eBioscience [™] NovaFluor [™] Blue 510 Dye	493/513	Medium
			Alexa Fluor™ 488 Dye; Fluorescein (FITC)	490/520	Medium
	B3	525-540	eBioscience™ NovaFluor™ Blue 530 Dye	508/527	Low
	B4 B5-B6	540-555	eBioscience [™] NovaFluor [™] Blue 555 Dye; Alexa Fluor [™] 532 Dye	493/555	Low
	DD-D0	570-600	eBioscience [™] NovaFluor [™] Blue 585 Dye	493/586	Low
Blue	B7	600-620	eBioscience [™] NovaFluor [™] Blue 610-70S Dye	492/616	Low
	B8-B9	620-660		432/010	2000
188 nm	B10	660-680	eBioscience [™] NovaFluor [™] Blue 660-120S Dye	508/664	Medium
	D11	690 710	PerCP-Cyanine5.5 Dye; PerCP-eFluor [™] 710 Dye	489/679	Low
	B11	680–710	eBioscience [™] NovaFluor [™] Blue 690 Dye	494/690	Low
	B12	710–740	eBioscience [™] NovaFluor [™] Blue 725 Dye	492/725	Medium
	B13	740-770	eBioscience™ NovaFluor™ Blue 760 Dye	490/764	Medium
	B14	770-800	eBioscience [™] NovaFluor [™] Blue 800 Dye	493/806	High
	B15-B16	800-860	eBioscience [™] NoveEluor [™] Vellow 570 Duot Alovo Eluor [™] 561 Duo	551/566	Medium
	YG1	570–585	eBioscience [™] NovaFluor [™] Yellow 570 Dye; Alexa Fluor [™] 561 Dye R-Phycoerythrin (R-PE)	565/576	High
	YG2	585-600		000/010	
			eBioscience™ NovaFluor™ Yellow 610 Dye	551/614	High
	YG3	600–620	eBioscience™ PE-eFluor™ 610 Dye	565/606	High
	YG4	620–640			
ellow-	YG5	640–660	eBioscience [™] NovaFluor [™] Yellow 660 Dye	550/664	High
green	YG6	660–680	PE-Cyanine5 Dye	565/680	High
	V07	C00 710	eBioscience [™] NovaFluor [™] Yellow 690 Dye	551/691	High
561 nm	YG7	680–710	PE-Cyanine5.5 Dye cBioscioneo™ NeveElucr™ Yellow 700 Dve	565/700	High
	YG8	710–740	eBioscience [™] NovaFluor [™] Yellow 700 Dye eBioscience [™] NovaFluor [™] Yellow 730 Dye	551/701 551/730	High Medium
	YG9	740–740	eBioscience™ NovaFluor™ Yellow 755 Dye	552/755	Medium
	YG10	770-800	PE-Cyanine7 Dye	569/780	High
	YG11	800-830	eBioscience™ NovaFluor™ Yellow 810 Dye	551/813	High
	YG12	830-860			
	R1	640-660	Allophycocyanin (APC)	651/660	High
	R2	660–680	eBioscience™ eFluor™ 660 Dye; Alexa Fluor™ 647 Dye	651/668	High
			eBioscience [™] NovaFluor [™] Red 685 Dye	637/685	High
Dod	R3	680–710	Alexa Fluor™ 660 Dye	663/691	Medium
Red	-		eBioscience™ NovaFluor™ Red 710 Dye	637/713	High
637 nm	R4	710-740	Alexa Fluor™ 700 Dye	696/719	Medium
	R5	740–770	eBioscience [™] NovaFluor [™] Red 725 Dye	636/725	High
	R6	770-800	eBioscience [™] NovaFluor [™] Red 755 Dye	636/755	High
			eBioscience [™] APC-eFluor [™] 780 Dye	651/785	High

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Fluorophore selection guide

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Reagent selection guide BD FACSDiscover S8 Cell Sorter

	Channel	Channel start-end (nm)	Invitrogen [™] functional reagent	Abs/Em (nm)	Reagent category
	UV1–UV2	365-400			
	UV3	410-425	CellTrace [™] Blue Cell Proliferation Stain	350/450	Proliferation tracking sta
	013	10-420	Vybrant [™] DyeCycle [™] Violet Stain	355/410	DNA stain
Jltraviolet		105 150	LIVE/DEAD [™] Fixable Blue Dead Cell Stain	343/441	Fixable viability stain
349 nm	UV4	425-450	Click-iT [™] Plus EdU Alexa Fluor [™] 350 Stain	343/441	DNA stain
			Annexin V-Alexa Fluor [™] 350 Conjugate FxCycle [™] Violet Stain	369/437 358/461	Apoptosis tracking stain DNA stain
	UV5	450-475		358/461	DNA stain
	005	450-475	Hoechst 33342 Nucleic Acid Stain	361/497	DNA stain
	UV6-UV22	475-860		0017437	
	V1	410-430			
	V2		eBioscience [™] Annexin V–eFluor [™] 450 7-AAD Stain	405/445	Apoptosis tracking stain
	V2	430-450	PO-PRO [™] -1 lodide (435/455) Stain	435/455	DNA stain
	V3	450–475 475–495	LIVE/DEAD [™] Fixable Violet Dead Cell Stain	416/451	Fixable viability stain
			CellTrace [™] Violet Cell Proliferation Stain	405/450	Proliferation tracking sta
/iolet			Annexin V–Pacific Blue [™] Conjugate	404/455	Apoptosis tracking
			Click-iT [™] Plus EdU Pacific Blue [™] Stain SYTOX [™] Blue Nucleic Acid Stain	404/455 444/480	DNA stain
405 nm	V4 V5	495–510	LIVE/DEAD [™] Fixable Lime (506) Viability Stain	405/506	DNA stain Fixable viability stain
			Violet Ratiometric Stain	425/530, 585	Fixable viability stain
	V6	510-525	LIVE/DEAD [™] Fixable Aqua Dead Cell Stain	375/526	Apoptosis tracking
	V7–V8	525-555		010/020	hpoptosis traditing
	V9	570-585	LIVE/DEAD [™] Fixable Yellow Dead Cell Stain	400/575	Fixable viability stain
	V10-V20	585-860			
	B1	495-510	MitoProbe [™] DiOC₂(3) Stain	482/497	Mitochondria stain
		-33-310	YO-PRO [™] -1 lodide Stain	491/509	DNA stain
		510-525	Annexin V-FITC Conjugate	498/517	Apoptosis tracking stair
			CellTrace [™] CFSE Cell Proliferation Stain	495/519	Proliferation tracking sta
	B2		Annexin V–Alexa Fluor™ 488 Conjugate	499/520	Apoptosis tracking stair
			APO-BrdU [™] TUNEL with Alexa Fluor [™] 488 Anti-BrdU	499/520	DNA stain, apoptosis
			Click iT™ Dhuo Edil Alexa Elucy™ 499 Conjugata	400/500	tracking stain DNA stain
			Click-iT [™] Plus EdU Alexa Fluor [™] 488 Conjugate CellROX [™] Green Reagent	499/520 485/520	Oxidation tracking stain
			SYTOX [™] Green Nucleic Acid Stain	504/523	DNA stain
Blue	В3	525-540	LIVE/DEAD [™] Fixable Green Dead Cell Stain	495/520	Fixable viability stain
Jue			MitoProbe [™] JC-1 Assay	514/529, 590	Mitochondria stain
188 nm				509/533	Endocytosis tracking st
			pHrodo [™] Green Maleimide S. aureus BioParticles	509/533	
			Conjugate	509/533	Endocytosis tracking st
			CellEvent [™] Caspase-3/7 Green Detection Reagent	502/530	Apoptosis tracking stair
			Vybrant [™] DyeCycle [™] Green Stain	506/534	DNA stain
	B4	540-555			
	B5	570-585	LIVE/DEAD [™] Fixable Olive (557) Viability Stain	480/557	Fixable viability stain
			Vybrant [™] DyeCycle [™] Orange Stain	519/563	DNA stain
	B6-B10	585-680		400/700	
	B11 B12-B16	680–710 710–860	eBioscience [™] Annexin V-PerCP-eFluor [™] 710 Conjugate	482/708	Apoptosis tracking stair
	D12-D10	10-800	CellROX [™] Orange Stain	545/565	Oxidation tracking stain
		570-585	Annexin-V Alexa Fluor [™] 555 Conjugate	553/568	Apoptosis tracking stair
	YG1		SYTOX [™] Orange Nucleic Acid Stain	547/570	DNA stain
				549/574	Mitochondria stain
	YG1		Annexin V–PE Conjugate		Apoptosis tracking stair
	YG1		Annexin V-FE Conjugate	565/576	
	YG1		CellTrace [™] Yellow Cell Proliferation Stain	546/579	Proliferation tracking sta
			CellTrace [™] Yellow Cell Proliferation Stain pHrodo [™] Red Maleimide <i>E. coli</i> BioParticles Conjugate	546/579 560/585	Proliferation tracking sta Endocytosis tracking sta
	YG1 YG2	585-600	CellTrace [™] Yellow Cell Proliferation Stain pHrodo [™] Red Maleimide <i>E. coli</i> BioParticles Conjugate Tetramethylrhodamine, Ethyl Ester, Perchlorate (TMRE)	546/579 560/585 549/574	Proliferation tracking st Endocytosis tracking st Mitochondria stain
fellow-			CellTrace [™] Yellow Cell Proliferation Stain pHrodo [™] Red Maleimide <i>E. coli</i> BioParticles Conjugate Tetramethylrhodamine, Ethyl Ester, Perchlorate (TMRE) LIVE/DEAD [™] Fixable Orange (602) Viability Stain	546/579 560/585 549/574 580/602	Proliferation tracking st Endocytosis tracking st Mitochondria stain Fixable viability stain
fellow-			CellTrace [™] Yellow Cell Proliferation Stain pHrodo [™] Red Maleimide <i>E. coli</i> BioParticles Conjugate Tetramethylrhodamine, Ethyl Ester, Perchlorate (TMRE) LIVE/DEAD [™] Fixable Orange (602) Viability Stain Annexin V–Alexa Fluor [™] 568 Conjugate	546/579 560/585 549/574 580/602 579/603	Proliferation tracking st Endocytosis tracking st Mitochondria stain Fixable viability stain Apoptosis tracking stair
∕ellow- green			CellTrace [™] Yellow Cell Proliferation Stain pHrodo [™] Red Maleimide <i>E. coli</i> BioParticles Conjugate Tetramethylrhodamine, Ethyl Ester, Perchlorate (TMRE) LIVE/DEAD [™] Fixable Orange (602) Viability Stain Annexin V–Alexa Fluor [™] 568 Conjugate LIVE/DEAD [™] Fixable Red Dead Cell Stain	546/579 560/585 549/574 580/602 579/603 595/615	Proliferation tracking st Endocytosis tracking st Mitochondria stain Fixable viability stain Apoptosis tracking stain Fixable viability stain
green	YG2	585-600	CellTrace [™] Yellow Cell Proliferation Stain pHrodo [™] Red Maleimide <i>E. coli</i> BioParticles Conjugate Tetramethylrhodamine, Ethyl Ester, Perchlorate (TMRE) LIVE/DEAD [™] Fixable Orange (602) Viability Stain Annexin V-Alexa Fluor [™] 568 Conjugate LIVE/DEAD [™] Fixable Red Dead Cell Stain FxCycle [™] PI/RNase Staining Solution	546/579 560/585 549/574 580/602 579/603 595/615 535/617	Proliferation tracking st Endocytosis tracking st Mitochondria stain Fixable viability stain Apoptosis tracking stain Fixable viability stain DNA stain
green	YG2	585-600	CellTrace [™] Yellow Cell Proliferation Stain pHrodo [™] Red Maleimide <i>E. coli</i> BioParticles Conjugate Tetramethylrhodamine, Ethyl Ester, Perchlorate (TMRE) LIVE/DEAD [™] Fixable Orange (602) Viability Stain Annexin V-Alexa Fluor [™] 568 Conjugate LIVE/DEAD [™] Fixable Red Dead Cell Stain FxCycle [™] PI/RNase Staining Solution Annexin V-Alexa Fluor [™] 594 Conjugate	546/579 560/585 549/574 580/602 579/603 595/615 535/617 590/618	Proliferation tracking st Endocytosis tracking st Mitochondria stain Fixable viability stain Apoptosis tracking stain Fixable viability stain DNA stain Apoptosis tracking stain
green	YG2 YG3	585–600 600–620	CellTrace [™] Yellow Cell Proliferation Stain pHrodo [™] Red Maleimide <i>E. coli</i> BioParticles Conjugate Tetramethylrhodamine, Ethyl Ester, Perchlorate (TMRE) LIVE/DEAD [™] Fixable Orange (602) Viability Stain Annexin V-Alexa Fluor [™] 568 Conjugate LIVE/DEAD [™] Fixable Red Dead Cell Stain FxCycle [™] PI/RNase Staining Solution	546/579 560/585 549/574 580/602 579/603 595/615 535/617	Proliferation tracking st Endocytosis tracking st Mitochondria stain Fixable viability stain Apoptosis tracking stain Fixable viability stain DNA stain
green	YG2	585-600	CellTrace [™] Yellow Cell Proliferation Stain pHrodo [™] Red Maleimide <i>E. coli</i> BioParticles Conjugate Tetramethylrhodamine, Ethyl Ester, Perchlorate (TMRE) LIVE/DEAD [™] Fixable Orange (602) Viability Stain Annexin V-Alexa Fluor [™] 568 Conjugate LIVE/DEAD [™] Fixable Red Dead Cell Stain FxCycle [™] Pl/RNase Staining Solution Annexin V-Alexa Fluor [™] 594 Conjugate Click-iT [™] Plus EdU Alexa Fluor [™] 594 Stain	546/579 560/585 549/574 580/602 579/603 595/615 535/617 590/618	Proliferation tracking st Endocytosis tracking st Mitochondria stain Fixable viability stain Apoptosis tracking stain Fixable viability stain DNA stain Apoptosis tracking stain
green	YG2 YG3	585–600 600–620	CellTrace [™] Yellow Cell Proliferation Stain pHrodo [™] Red Maleimide <i>E. coli</i> BioParticles Conjugate Tetramethylrhodamine, Ethyl Ester, Perchlorate (TMRE) LIVE/DEAD [™] Fixable Orange (602) Viability Stain Annexin V-Alexa Fluor [™] 568 Conjugate LIVE/DEAD [™] Fixable Red Dead Cell Stain FxCycle [™] PI/RNase Staining Solution Annexin V-Alexa Fluor [™] 594 Conjugate	546/579 560/585 549/574 580/602 579/603 595/615 535/617 590/618 590/618	Proliferation tracking st Endocytosis tracking st Mitochondria stain Fixable viability stain Apoptosis tracking stain Fixable viability stain DNA stain Apoptosis tracking stain DNA stain
green	YG2 YG3 YG4 YG5	585-600 600-620 620-640	CellTrace [™] Yellow Cell Proliferation Stain pHrodo [™] Red Maleimide <i>E. coli</i> BioParticles Conjugate Tetramethylrhodamine, Ethyl Ester, Perchlorate (TMRE) LIVE/DEAD [™] Fixable Orange (602) Viability Stain Annexin V-Alexa Fluor [™] 568 Conjugate LIVE/DEAD [™] Fixable Red Dead Cell Stain FxCycle [™] PI/RNase Staining Solution Annexin V-Alexa Fluor [™] 594 Conjugate Click-iT [™] Plus EdU Alexa Fluor [™] 594 Stain Propidium Iodide	546/579 560/585 549/574 580/602 579/603 595/615 535/617 590/618 590/618 535/617	Proliferation tracking st Endocytosis tracking st Mitochondria stain Fixable viability stain Apoptosis tracking stain DNA stain DNA stain DNA stain
green	YG2 YG3 YG4 YG5 YG6-YG9	585-600 600-620 620-640 640-660 660-770	CellTrace [™] Yellow Cell Proliferation Stain pHrodo [™] Red Maleimide <i>E. coli</i> BioParticles Conjugate Tetramethylrhodamine, Ethyl Ester, Perchlorate (TMRE) LIVE/DEAD [™] Fixable Orange (602) Viability Stain Annexin V-Alexa Fluor [™] 568 Conjugate LIVE/DEAD [™] Fixable Red Dead Cell Stain FxCycle [™] PI/RNase Staining Solution Annexin V-Alexa Fluor [™] 594 Conjugate Click-iT [™] Plus EdU Alexa Fluor [™] 594 Stain Propidium Iodide 7-AAD (7-Aminoactinomycin D) SYTOX [™] AADvanced [™] Dead Cell Stain	546/579 560/585 549/574 580/602 579/603 595/615 535/617 590/618 590/618 535/617 546/647 535/647	Proliferation tracking st Endocytosis tracking st Mitochondria stain Fixable viability stain Apoptosis tracking stain DNA stain DNA stain DNA stain Viability stain DNA stain
green	YG2 YG3 YG4 YG5 YG6-YG9 YG10	585–600 600–620 620–640 640–660 660–770 770–800	CellTrace [™] Yellow Cell Proliferation Stain pHrodo [™] Red Maleimide <i>E. coli</i> BioParticles Conjugate Tetramethylrhodamine, Ethyl Ester, Perchlorate (TMRE) LIVE/DEAD [™] Fixable Orange (602) Viability Stain Annexin V-Alexa Fluor [™] 568 Conjugate LIVE/DEAD [™] Fixable Red Dead Cell Stain FxCycle [™] PI/RNase Staining Solution Annexin V-Alexa Fluor [™] 594 Conjugate Click-iT [™] Plus EdU Alexa Fluor [™] 594 Stain Propidium Iodide 7-AAD (7-Aminoactinomycin D)	546/579 560/585 549/574 580/602 579/603 595/615 535/617 590/618 590/618 535/617 546/647	Proliferation tracking st Endocytosis tracking st Mitochondria stain Fixable viability stain Apoptosis tracking stain DNA stain DNA stain DNA stain Viability stain DNA stain
green	YG2 YG3 YG4 YG5 YG6-YG9	585–600 600–620 620–640 640–660 660–770 770–800	CellTrace [™] Yellow Cell Proliferation Stain pHrodo [™] Red Maleimide <i>E. coli</i> BioParticles Conjugate Tetramethylrhodamine, Ethyl Ester, Perchlorate (TMRE) LIVE/DEAD [™] Fixable Orange (602) Viability Stain Annexin V-Alexa Fluor [™] 568 Conjugate LIVE/DEAD [™] Fixable Red Dead Cell Stain FxCycle [™] PI/RNase Staining Solution Annexin V-Alexa Fluor [™] 594 Conjugate Click-iT [™] Plus EdU Alexa Fluor [™] 594 Stain Propidium Iodide 7-AAD (7-Aminoactinomycin D) SYTOX [™] AADvanced [™] Dead Cell Stain eBioscience [™] Annexin V-PE-Cyanine7 Conjugate	546/579 560/585 549/574 580/602 579/603 595/615 535/617 590/618 535/617 546/647 535/647 569/780	Proliferation tracking st Endocytosis tracking st Mitochondria stain Fixable viability stain Apoptosis tracking stain DNA stain DNA stain DNA stain DNA stain DNA stain DNA stain DNA stain
	YG2 YG3 YG4 YG5 YG6-YG9 YG10	585–600 600–620 620–640 640–660 660–770 770–800	CellTrace [™] Yellow Cell Proliferation Stain pHrodo [™] Red Maleimide <i>E. coli</i> BioParticles Conjugate Tetramethylrhodamine, Ethyl Ester, Perchlorate (TMRE) LIVE/DEAD [™] Fixable Orange (602) Viability Stain Annexin V-Alexa Fluor [™] 568 Conjugate LIVE/DEAD [™] Fixable Red Dead Cell Stain FxCycle [™] PI/RNase Staining Solution Annexin V-Alexa Fluor [™] 594 Conjugate Click-iT [™] Plus EdU Alexa Fluor [™] 594 Stain Propidium Iodide 7-AAD (7-Aminoactinomycin D) SYTOX [™] AADvanced [™] Dead Cell Stain eBioscience [™] Annexin V-PE-Cyanine7 Conjugate pHrodo [™] Deep Red <i>E. coli</i> BioParticles Conjugate	546/579 560/585 549/574 580/602 579/603 595/615 535/617 590/618 535/617 535/617 546/647 535/647 569/780	Proliferation tracking st Endocytosis tracking st Mitochondria stain Fixable viability stain Apoptosis tracking stain DNA stain DNA stain DNA stain DNA stain DNA stain DNA stain Endocytosis tracking stain Endocytosis tracking stain
green	YG2 YG3 YG4 YG5 YG6-YG9 YG10 YG11-YG12	585-600 600-620 620-640 640-660 660-770 770-800 800-860	CellTrace [™] Yellow Cell Proliferation Stain pHrodo [™] Red Maleimide <i>E. coli</i> BioParticles Conjugate Tetramethylrhodamine, Ethyl Ester, Perchlorate (TMRE) LIVE/DEAD [™] Fixable Orange (602) Viability Stain Annexin V-Alexa Fluor [™] 568 Conjugate LIVE/DEAD [™] Fixable Red Dead Cell Stain FxCycle [™] PI/RNase Staining Solution Annexin V-Alexa Fluor [™] 594 Conjugate Click-iT [™] Plus EdU Alexa Fluor [™] 594 Stain Propidium Iodide 7-AAD (7-Aminoactinomycin D) SYTOX [™] AADvanced [™] Dead Cell Stain eBioscience [™] Annexin V-PE-Cyanine7 Conjugate pHrodo [™] Deep Red <i>E. coli</i> BioParticles Conjugate SYTOX [™] Red Dead Cell Stain	546/579 560/585 549/574 580/602 579/603 595/615 535/617 590/618 590/618 535/617 546/647 535/647 535/647 569/780 640/655 640/658	Proliferation tracking st Endocytosis tracking st Mitochondria stain Fixable viability stain Apoptosis tracking stain Fixable viability stain DNA stain DNA stain DNA stain DNA stain DNA stain Endocytosis tracking stain DNA stain DNA stain
green	YG2 YG3 YG4 YG5 YG6-YG9 YG10	585–600 600–620 620–640 640–660 660–770 770–800	CellTrace [™] Yellow Cell Proliferation Stain pHrodo [™] Red Maleimide <i>E. coli</i> BioParticles Conjugate Tetramethylrhodamine, Ethyl Ester, Perchlorate (TMRE) LIVE/DEAD [™] Fixable Orange (602) Viability Stain Annexin V-Alexa Fluor [™] 568 Conjugate LIVE/DEAD [™] Fixable Red Dead Cell Stain FxCycle [™] Pl/RNase Staining Solution Annexin V-Alexa Fluor [™] 594 Conjugate Click-iT [™] Plus EdU Alexa Fluor [™] 594 Stain Propidium Iodide 7-AAD (7-Aminoactinomycin D) SYTOX [™] AADvanced [™] Dead Cell Stain eBioscience [™] Annexin V-PE-Cyanine7 Conjugate pHrodo [™] Deep Red <i>E. coli</i> BioParticles Conjugate SYTOX [™] Red Dead Cell Stain MitoProbe [™] DilC ₁ (5) Stain	546/579 560/585 549/574 580/602 579/603 595/615 535/617 590/618 590/618 535/617 546/647 535/647 569/780 640/655 640/658 638/658	Proliferation tracking st Endocytosis tracking st Mitochondria stain Fixable viability stain Apoptosis tracking stain DNA stain DNA stain DNA stain DNA stain DNA stain Endocytosis tracking stain DNA stain Mitochondria stain
green	YG2 YG3 YG4 YG5 YG6-YG9 YG10 YG11-YG12	585-600 600-620 620-640 640-660 660-770 770-800 800-860	CellTrace [™] Yellow Cell Proliferation Stain pHrodo [™] Red Maleimide <i>E. coli</i> BioParticles Conjugate Tetramethylrhodamine, Ethyl Ester, Perchlorate (TMRE) LIVE/DEAD [™] Fixable Orange (602) Viability Stain Annexin V-Alexa Fluor [™] 568 Conjugate LIVE/DEAD [™] Fixable Red Dead Cell Stain FxCycle [™] Pl/RNase Staining Solution Annexin V-Alexa Fluor [™] 594 Conjugate Click-iT [™] Plus EdU Alexa Fluor [™] 594 Stain Propidium Iodide 7-AAD (7-Aminoactinomycin D) SYTOX [™] AADvanced [™] Dead Cell Stain eBioscience [™] Annexin V-PE-Cyanine7 Conjugate pHrodo [™] Deep Red <i>E. coli</i> BioParticles Conjugate SYTOX [™] Red Dead Cell Stain MitoProbe [™] DilC ₁ (5) Stain FxCycle [™] Far Red Stain	546/579 560/585 549/574 580/602 579/603 595/615 535/617 590/618 590/618 535/617 546/647 535/647 569/780 640/655 640/658 638/658 633/660	Proliferation tracking st Endocytosis tracking st Mitochondria stain Fixable viability stain Apoptosis tracking stain DNA stain DNA stain DNA stain DNA stain DNA stain Endocytosis tracking stain DNA stain
green	YG2 YG3 YG4 YG5 YG6-YG9 YG10 YG11-YG12	585-600 600-620 620-640 640-660 660-770 770-800 800-860	CellTrace [™] Yellow Cell Proliferation Stain pHrodo [™] Red Maleimide <i>E. coli</i> BioParticles Conjugate Tetramethylrhodamine, Ethyl Ester, Perchlorate (TMRE) LIVE/DEAD [™] Fixable Orange (602) Viability Stain Annexin V-Alexa Fluor [™] 568 Conjugate LIVE/DEAD [™] Fixable Red Dead Cell Stain FxCycle [™] PI/RNase Staining Solution Annexin V-Alexa Fluor [™] 594 Conjugate Click-iT [™] Plus EdU Alexa Fluor [™] 594 Stain Propidium Iodide 7-AAD (7-Aminoactinomycin D) SYTOX [™] AADvanced [™] Dead Cell Stain eBioscience [™] Annexin V-PE-Cyanine7 Conjugate pHrodo [™] Deep Red <i>E. coli</i> BioParticles Conjugate SYTOX [™] Red Dead Cell Stain MitoProbe [™] DilC ₁ (5) Stain FxCycle [™] Far Red Stain Annexin V-APC Conjugate	546/579 560/585 549/574 580/602 579/603 595/615 535/617 590/618 535/617 546/647 535/647 569/780 640/655 640/658 638/658 633/660 651/660	Proliferation tracking st Endocytosis tracking st Mitochondria stain Fixable viability stain Apoptosis tracking stain DNA stain DNA stain DNA stain DNA stain DNA stain Endocytosis tracking stain DNA stain Apoptosis tracking stain DNA stain Apoptosis tracking stain DNA stain Mitochondria stain DNA stain Apoptosis tracking stain
green	YG2 YG3 YG4 YG5 YG6-YG9 YG10 YG11-YG12	585-600 600-620 620-640 640-660 660-770 770-800 800-860	CellTrace [™] Yellow Cell Proliferation Stain pHrodo [™] Red Maleimide <i>E. coli</i> BioParticles Conjugate Tetramethylrhodamine, Ethyl Ester, Perchlorate (TMRE) LIVE/DEAD [™] Fixable Orange (602) Viability Stain Annexin V-Alexa Fluor [™] 568 Conjugate LIVE/DEAD [™] Fixable Red Dead Cell Stain FxCycle [™] PI/RNase Staining Solution Annexin V-Alexa Fluor [™] 594 Conjugate Click-iT [™] Plus EdU Alexa Fluor [™] 594 Stain Propidium lodide 7-AAD (7-Aminoactinomycin D) SYTOX [™] AADvanced [™] Dead Cell Stain eBioscience [™] Annexin V-PE-Cyanine7 Conjugate pHrodo [™] Deep Red <i>E. coli</i> BioParticles Conjugate SYTOX [™] Red Dead Cell Stain MitoProbe [™] DilC ₁ (5) Stain FxCycle [™] Far Red Stain Annexin V-APC Conjugate TO-PRO [™] -3 Stain	546/579 560/585 549/574 580/602 579/603 595/615 535/617 590/618 535/617 546/647 535/647 546/647 569/780 640/655 640/658 633/660 651/660 642/661	Proliferation tracking st Endocytosis tracking st Mitochondria stain Fixable viability stain Apoptosis tracking stain Fixable viability stain DNA stain Apoptosis tracking stain DNA stain DNA stain DNA stain Endocytosis tracking stain DNA stain Mitochondria stain DNA stain Apoptosis tracking stain DNA stain DNA stain
green	YG2 YG3 YG4 YG5 YG6-YG9 YG10 YG11-YG12 R1	585-600 600-620 620-640 640-660 660-770 770-800 800-860 640-660	CellTrace [™] Yellow Cell Proliferation Stain pHrodo [™] Red Maleimide <i>E. coli</i> BioParticles Conjugate Tetramethylrhodamine, Ethyl Ester, Perchlorate (TMRE) LIVE/DEAD [™] Fixable Orange (602) Viability Stain Annexin V-Alexa Fluor [™] 568 Conjugate LIVE/DEAD [™] Fixable Red Dead Cell Stain FxCycle [™] PI/RNase Staining Solution Annexin V-Alexa Fluor [™] 594 Conjugate Click-iT [™] Plus EdU Alexa Fluor [™] 594 Stain Propidium lodide 7-AAD (7-Aminoactinomycin D) SYTOX [™] AADvanced [™] Dead Cell Stain eBioscience [™] Annexin V-PE-Cyanine7 Conjugate pHrodo [™] Deep Red <i>E. coli</i> BioParticles Conjugate SYTOX [™] Red Dead Cell Stain MitoProbe [™] DilC ₁ (5) Stain FxCycle [™] Far Red Stain Annexin V-APC Conjugate TO-PRO ^{™-3} Stain CellTrace [™] Far Red Cell Proliferation Stain	546/579 560/585 549/574 580/602 579/603 595/615 535/617 590/618 535/617 546/647 535/647 546/647 569/780 640/655 640/658 633/660 651/660 642/661 630/661	Proliferation tracking st Endocytosis tracking st Mitochondria stain Fixable viability stain Apoptosis tracking stain Fixable viability stain DNA stain Mitochondria stain DNA stain PNA stain Proliferation tracking stain
green 561 nm	YG2 YG3 YG4 YG5 YG6-YG9 YG10 YG11-YG12	585-600 600-620 620-640 640-660 660-770 770-800 800-860	CellTrace [™] Yellow Cell Proliferation Stain pHrodo [™] Red Maleimide <i>E. coli</i> BioParticles Conjugate Tetramethylrhodamine, Ethyl Ester, Perchlorate (TMRE) LIVE/DEAD [™] Fixable Orange (602) Viability Stain Annexin V-Alexa Fluor [™] 568 Conjugate LIVE/DEAD [™] Fixable Red Dead Cell Stain FxCycle [™] PI/RNase Staining Solution Annexin V-Alexa Fluor [™] 594 Conjugate Click-iT [™] Plus EdU Alexa Fluor [™] 594 Stain Propidium Iodide 7-AAD (7-Aminoactinomycin D) SYTOX [™] AADvanced [™] Dead Cell Stain eBioscience [™] Annexin V-PE-Cyanine7 Conjugate pHrodo [™] Deep Red <i>E. coli</i> BioParticles Conjugate SYTOX [™] Red Dead Cell Stain MitoProbe [™] DilC ₁ (5) Stain FxCycle [™] Far Red Stain Annexin V-APC Conjugate TO-PRO [™] -3 Stain CellTrace [™] Far Red Cell Proliferation Stain LIVE/DEAD [™] Fixable Far Red Dead Cell Stain	546/579 560/585 549/574 580/602 579/603 595/615 535/617 590/618 535/617 546/647 535/647 546/647 569/780 640/655 640/655 640/658 633/660 651/660 642/661 630/661 650/665	Proliferation tracking st Endocytosis tracking st Mitochondria stain Fixable viability stain Apoptosis tracking stain DNA stain
green 561 nm Red	YG2 YG3 YG4 YG5 YG6-YG9 YG10 YG11-YG12 R1	585-600 600-620 620-640 640-660 660-770 770-800 800-860 640-660	CellTrace [™] Yellow Cell Proliferation Stain pHrodo [™] Red Maleimide <i>E. coli</i> BioParticles Conjugate Tetramethylrhodamine, Ethyl Ester, Perchlorate (TMRE) LIVE/DEAD [™] Fixable Orange (602) Viability Stain Annexin V-Alexa Fluor [™] 568 Conjugate LIVE/DEAD [™] Fixable Red Dead Cell Stain FxCycle [™] PI/RNase Staining Solution Annexin V-Alexa Fluor [™] 594 Conjugate Click-iT [™] Plus EdU Alexa Fluor [™] 594 Stain Propidium Iodide 7-AAD (7-Aminoactinomycin D) SYTOX [™] AADvanced [™] Dead Cell Stain eBioscience [™] Annexin V-PE-Cyanine7 Conjugate pHrodo [™] Deep Red <i>E. coli</i> BioParticles Conjugate SYTOX [™] Red Dead Cell Stain MitoProbe [™] DilC ₁ (5) Stain FxCycle [™] Far Red Stain Annexin V-APC Conjugate TO-PRO [™] -3 Stain CellTrace [™] Fixable Far Red Dead Cell Stain LIVE/DEAD [™] Fixable Far Red Dead Cell Stain CellROX [™] Deep Red Reagent	546/579 560/585 549/574 580/602 579/603 595/615 535/617 590/618 535/617 546/647 535/647 569/780 640/655 640/655 640/658 633/660 651/660 642/661 630/661 650/665 644/655	Proliferation tracking st Endocytosis tracking st Mitochondria stain Fixable viability stain Apoptosis tracking stain DNA stain Proliferation tracking stain DNA stain Mitochondria stain DNA stain Proliferation tracking stain Oxidation tracking stain
green 561 nm Red	YG2 YG3 YG4 YG5 YG6-YG9 YG10 YG11-YG12 R1	585-600 600-620 620-640 640-660 660-770 770-800 800-860 640-660	CellTrace [™] Yellow Cell Proliferation Stain pHrodo [™] Red Maleimide <i>E. coli</i> BioParticles Conjugate Tetramethylrhodamine, Ethyl Ester, Perchlorate (TMRE) LIVE/DEAD [™] Fixable Orange (602) Viability Stain Annexin V-Alexa Fluor [™] 568 Conjugate LIVE/DEAD [™] Fixable Red Dead Cell Stain FxCycle [™] PI/RNase Staining Solution Annexin V-Alexa Fluor [™] 594 Conjugate Click-iT [™] Plus EdU Alexa Fluor [™] 594 Stain Propidium Iodide 7-AAD (7-Aminoactinomycin D) SYTOX [™] AADvanced [™] Dead Cell Stain eBioscience [™] Annexin V-PE-Cyanine7 Conjugate pHrodo [™] Deep Red <i>E. coli</i> BioParticles Conjugate SYTOX [™] Red Dead Cell Stain mitoProbe [™] DilC ₁ (5) Stain FxCycle [™] Far Red Stain Annexin V-APC Conjugate TO-PRO ^{™-3} Stain CellTrace [™] Fixable Far Red Dead Cell Stain CellROX [™] Deep Red Reagent eBioscience [™] Annexin V-APC Conjugate	546/579 560/585 549/574 580/602 579/603 595/615 535/617 590/618 535/617 546/647 535/647 546/647 569/780 640/655 640/655 640/658 633/660 651/660 642/661 630/661 650/665	Proliferation tracking st Endocytosis tracking st Mitochondria stain Fixable viability stain Apoptosis tracking stain DNA stain Proliferation tracking stain DNA stain Apoptosis tracking stain DNA stain Proliferation tracking stain Oxidation tracking stain
green 561 nm	YG2 YG3 YG4 YG5 YG6-YG9 YG10 YG11-YG12 R1	585-600 600-620 620-640 640-660 660-770 770-800 800-860 640-660	CellTrace [™] Yellow Cell Proliferation Stain pHrodo [™] Red Maleimide <i>E. coli</i> BioParticles Conjugate Tetramethylrhodamine, Ethyl Ester, Perchlorate (TMRE) LIVE/DEAD [™] Fixable Orange (602) Viability Stain Annexin V-Alexa Fluor [™] 568 Conjugate LIVE/DEAD [™] Fixable Red Dead Cell Stain FxCycle [™] PI/RNase Staining Solution Annexin V-Alexa Fluor [™] 594 Conjugate Click-iT [™] Plus EdU Alexa Fluor [™] 594 Stain Propidium Iodide 7-AAD (7-Aminoactinomycin D) SYTOX [™] AADvanced [™] Dead Cell Stain eBioscience [™] Annexin V-PE-Cyanine7 Conjugate pHrodo [™] Deep Red <i>E. coli</i> BioParticles Conjugate SYTOX [™] Red Dead Cell Stain MitoProbe [™] DilC ₁ (5) Stain FxCycle [™] Far Red Stain Annexin V-APC Conjugate TO-PRO [™] -3 Stain CellTrace [™] Fixable Far Red Dead Cell Stain LIVE/DEAD [™] Fixable Far Red Dead Cell Stain CellROX [™] Deep Red Reagent	546/579 560/585 549/574 580/602 579/603 595/615 535/617 590/618 535/617 546/647 535/647 569/780 640/655 640/655 640/658 633/660 651/660 642/661 630/661 650/665 644/665 650/671	Proliferation tracking st Endocytosis tracking st Mitochondria stain Fixable viability stain Apoptosis tracking stain DNA stain Prolotosis tracking stain DNA stain Mitochondria stain DNA stain Proliferation tracking stain DNA stain Proliferation tracking stain Oxidation tracking stain
green 561 nm Red	YG2 YG3 YG4 YG5 YG6-YG9 YG10 YG11-YG12 R1 R2	585-600 600-620 620-640 640-660 660-770 770-800 800-860 640-660 660-680	CellTrace [™] Yellow Cell Proliferation Stain pHrodo [™] Red Maleimide <i>E. coli</i> BioParticles Conjugate Tetramethylrhodamine, Ethyl Ester, Perchlorate (TMRE) LIVE/DEAD [™] Fixable Orange (602) Viability Stain Annexin V-Alexa Fluor [™] 568 Conjugate LIVE/DEAD [™] Fixable Red Dead Cell Stain FxCycle [™] Pl/RNase Staining Solution Annexin V-Alexa Fluor [™] 594 Conjugate Click-iT [™] Plus EdU Alexa Fluor [™] 594 Stain Propidium Iodide 7-AAD (7-Aminoactinomycin D) SYTOX [™] AADvanced [™] Dead Cell Stain eBioscience [™] Annexin V-PE-Cyanine7 Conjugate pHrodo [™] Deep Red <i>E. coli</i> BioParticles Conjugate SYTOX [™] Red Dead Cell Stain MitoProbe [™] DilC ₁ (5) Stain FxCycle [™] Far Red Stain Annexin V-APC Conjugate TO-PRO ^{™-3} Stain CellTrace [™] Far Red Cell Proliferation Stain LIVE/DEAD [™] Fixable Far Red Dead Cell Stain CellROX [™] Deep Red Reagent eBioscience [™] Annexin V-Alexa Fluor [™] 647 Conjugate	546/579 560/585 549/574 580/602 579/603 595/615 535/617 590/618 535/617 546/647 535/647 569/780 640/655 640/655 640/658 633/660 651/660 642/661 630/661 650/665 644/665 650/671 650/671	Proliferation tracking st Endocytosis tracking st Mitochondria stain Fixable viability stain Apoptosis tracking stain Fixable viability stain DNA stain DNA stain DNA stain DNA stain DNA stain DNA stain Apoptosis tracking stain DNA stain Apoptosis tracking stain DNA stain Mitochondria stain DNA stain Apoptosis tracking stain DNA stain Proliferation tracking stain Oxidation tracking stain Apoptosis tracking stain DNA stain
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jreen 61 nm Red	YG2 YG3 YG4 YG5 YG6-YG9 YG10 YG11-YG12 R1 R2 R2	585-600 600-620 620-640 640-660 660-770 770-800 800-860 640-660 640-660 660-680 680-710	CellTrace [™] Yellow Cell Proliferation Stain pHrodo [™] Red Maleimide <i>E. coli</i> BioParticles Conjugate Tetramethylrhodamine, Ethyl Ester, Perchlorate (TMRE) LIVE/DEAD [™] Fixable Orange (602) Viability Stain Annexin V-Alexa Fluor [™] 568 Conjugate LIVE/DEAD [™] Fixable Red Dead Cell Stain FxCycle [™] PI/RNase Staining Solution Annexin V-Alexa Fluor [™] 594 Conjugate Click-iT [™] Plus EdU Alexa Fluor [™] 594 Stain Propidium lodide 7-AAD (7-Aminoactinomycin D) SYTOX [™] AADvanced [™] Dead Cell Stain eBioscience [™] Annexin V-PE-Cyanine7 Conjugate SYTOX [™] Red Dead Cell Stain FxCycle [™] DilC ₁ (5) Stain FxCycle [™] Far Red Stain Annexin V-APC Conjugate TO-PRO ^{™-3} Stain CellTrace [™] Far Red Cell Proliferation Stain LIVE/DEAD [™] Fixable Far Red Dead Cell Stain CellROX [™] Deep Red Reagent eBioscience [™] Annexin V-Alexa Fluor [™] 647 Conjugate SYTOX [™] Deep Red Nucleic Acid Stain SYTOX [™] Deep Red Nucleic Acid Stain DRAQ5 [™] Fluorescent Probe Solution; DRAQ7 [™] Dye	546/579 560/585 549/574 580/602 579/603 595/615 535/617 590/618 535/617 546/647 535/647 546/647 569/780 640/655 640/658 633/660 651/660 642/661 650/665 644/665 650/671 650/671 650/671 660/682 633/686 646/697	Proliferation tracking st Endocytosis tracking st Mitochondria stain Fixable viability stain Apoptosis tracking stain Fixable viability stain DNA stain Apoptosis tracking stain DNA stain DNA stain DNA stain DNA stain Apoptosis tracking stain DNA stain Mitochondria stain DNA stain Apoptosis tracking stain DNA stain Proliferation tracking stain DNA stain Proliferation tracking stain Oxidation tracking stain DNA stain

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