

可见光谱

远红

近红外

Dye	Ex/Em (nm)	Excitation	替代下方染料	Features and applications
CF@350	347/448	UV	Alexa Fluor® 350, AMCA, DyLight® 350	<ul style="list-style-type: none"> Brightest blue fluorescent conjugates for 350 nm excitation Highly water-soluble and pH-insensitive
CF@405S	404/431	405 nm	Alexa Fluor® 405, Cascade Blue™, DyLight® 405	<ul style="list-style-type: none"> Brighter signal due to better compatibility with common instruments
CF@405M	408/452	405 nm	BD Horizon™ V450, eFluor® 450, Pacific Blue™	<ul style="list-style-type: none"> More photostable than Pacific Blue™, with less green spill-over Excellent choice for super-resolution imaging by SIM
CF@405L	395/545	405 nm	Pacific Orange™	<ul style="list-style-type: none"> 405 nm excitable orange fluorescent dye for multicolor detection
CF@430	426/498	405 nm	Pacific Green™, BD Horizon™ V500, Krome Orange™	<ul style="list-style-type: none"> Photostable 405 nm excitable green dye Perfect match for the CFP filter set
CF@440	440/515	405 nm	Alexa Fluor® 430	<ul style="list-style-type: none"> Photostable 405 nm excitable green dye
CF@450	450/538	405 nm	Unique dye	<ul style="list-style-type: none"> Unique violet-excitable green dye
CF@488A	490/515	488 nm	ATTO 488, Alexa Fluor® 488, Cy®2, DyLight® 488, FAM, FITC, Fluorescein	<ul style="list-style-type: none"> Less charge, for lower non-specific binding Less red spill-over than Alexa Fluor® 488 Validated for 2-photon and TIRF
CF@503R	503/532	488 nm	Unique dye	<ul style="list-style-type: none"> Unique green dye or multispectral detection or FRET Photostable rhodamine-based dye
CF@514	516/548	488 nm	Alexa Fluor® 514	<ul style="list-style-type: none"> Green dye distinguishable from 488 nm dyes by spectral unmixing
CF@532	527/558	532 nm	Alexa Fluor® 532, ATTO 532	<ul style="list-style-type: none"> Significantly brighter than Alexa Fluor® 532
CF@535ST	535/568	532 nm	Unique dye for STORM**	<ul style="list-style-type: none"> Orange dye designed for STORM
CF@543	541/560	532 to 546 nm	Alexa Fluor® 546, Tetramethylrhodamine (TAMRA)	<ul style="list-style-type: none"> Significantly brighter than Alexa Fluor® 546
CF@550R	551/577	532 to 568 nm	Unique dye	<ul style="list-style-type: none"> Unique orange/red dye for multispectral detection or FRET Photostable rhodamine-based dye
CF@555	555/565	532 to 568 nm	Alexa Fluor® 555, ATTO 550, Cy®3, DyLight® 549, TRITC	<ul style="list-style-type: none"> Brighter than Cy®3 Validated in multicolor STORM
CF@568	562/583	532 to 568 nm	Alexa Fluor® 568, ATTO 565, Rhodamine Red	<ul style="list-style-type: none"> Optimized for the 568 nm line of the Ar-Kr mixed-gas Brighter and more photostable than Alexa Fluor® 568 Compatible with TIRF and multicolor STORM
CF@570	568/591	532 to 568 nm	Alexa Fluor® 568, ATTO 565, DY-560, Rhodamine Red	<ul style="list-style-type: none"> Brighter than Alexa Fluor® 568
CF@583	583/606	532 to 568 nm	Cy®3.5, Texas Red®	<ul style="list-style-type: none"> Brighter than Cy®3.5
CF@583R	586/609	532 to 568 nm	Cy®3.5, Texas Red®	<ul style="list-style-type: none"> Brighter than Cy®3.5 and Texas Red® Ideal for FRET when paired with R-PE
CF@594	593/614	532 to 568 nm	Alexa Fluor® 594, ATTO 594, DyLight® 594, Texas Red®	<ul style="list-style-type: none"> Yields the brightest conjugates among spectrally similar dyes Extremely photostable Validated in 2-photon microscopy
CF@594ST	593/614	532 to 568 nm	Unique dye for STORM	<ul style="list-style-type: none"> Specifically designed for STORM
CF@620R	617/639	633 or 635 nm	LightCycler® Red 640	<ul style="list-style-type: none"> Highly fluorescent dye with unique spectral properties
CF@633	630/650	633 or 635 nm	Alexa Fluor® 633, Alexa Fluor® 647, Cy®5, DyLight® 633	<ul style="list-style-type: none"> The brightest antibody conjugates among spectrally similar dyes Far more photostable than Alexa Fluor® 647 Compatible with super-resolution TIRF, FIONA, and gSHRImP
CF@640R	642/662	633 to 640 nm	Alexa Fluor® 647, ATTO 647N, Cy®5, DyLight® 649	<ul style="list-style-type: none"> Has the best photostability among dyes with Cy®5-like spectra Yields highly fluorescent protein conjugates Compatible with TIRF and FLImP super-resolution techniques
CF@647	650/665	633 to 640 nm	Alexa Fluor® 647, ATTO 647N, Cy®5, DyLight® 649	<ul style="list-style-type: none"> Brighter than Cy®5 Compatible with multicolor super-resolution imaging by STORM
CF@660C	667/685	633 to 640 nm	Alexa Fluor® 660	<ul style="list-style-type: none"> Much brighter and more photostable than Alexa Fluor® 660 Compatible with multicolor super-resolution imaging by STORM
CF@660R	663/682	633 to 640 nm	Alexa Fluor® 660	<ul style="list-style-type: none"> Brighter than Alexa Fluor® 660 The most photostable 660 nm dye
CF@680	681/698	680 or 685 nm	Alexa Fluor® 680, Cy®5.5, DyLight® 680, IRDye® 680LT	<ul style="list-style-type: none"> The brightest among spectrally similar 680 nm dyes Validated in multicolor STORM and 3D super-resolution imaging Compatible with LI-COR® Odyssey® System
CF@680R	680/701	680 or 685 nm	Alexa Fluor® 680, Cy®5.5, DyLight® 680, IRDye® 680LT	<ul style="list-style-type: none"> The most photostable 680 nm dye Suitable for labeling nucleic acids and small biomolecules Compatible with LI-COR® Odyssey® System Validated for 2-photon, STED, & single molecule spectroscopy
CF@700	695/720	680 or 685 nm	Alexa Fluor® 700, DyLight® 700	<ul style="list-style-type: none"> Exceptionally bright and stable Patented pegylated dye for superior performance
CF@750	755/777	680 or 685 nm	Alexa Fluor® 750, Cy®7, DyLight® 750, IRDye® 750	<ul style="list-style-type: none"> Exceptionally bright and photostable Patented pegylated dye for superior performance Validated in photoacoustic imaging and STORM
CF@770	770/797	785 nm	DyLight® 800, IRDye® 800CW, ZW800-1	<ul style="list-style-type: none"> Exceptionally bright and stable Patented pegylated dye for superior performance Compatible with LI-COR® Odyssey® System
CF@790	784/806	785 nm	Alexa Fluor® 790	<ul style="list-style-type: none"> Exceptionally bright and stable Patented pegylated dye for superior performance
CF@800	797/816	785 nm	Spectrally similar to Indocyanine green	<ul style="list-style-type: none"> Unique long wavelength near-infrared dye Patented pegylated dye for superior performance
CF@820	822/835	785 nm	DY-820	<ul style="list-style-type: none"> Exceptionally bright and stable Patented pegylated dye for superior performance

染料一目了然：为您的应用选择正确的染料

使用 www.biotium.com 上的 Spectra Viewer 找到最佳的 CF® 染料与荧光蛋白和常用的探针配对。

Bright

流式细胞术、微阵列和其他不涉及光漂白的应用

CF@405S 404/431 nm	CF@640R 642/662 nm
CF@488A 490/515 nm	APC 650/660 nm
CF@532 527/558 nm	CF@647 650/665 nm
CF@543 541/560 nm	RPE-CF@647T 496/665 nm
R-PE 496-565/578 nm	CF@660C 667/685 nm
CF@555 555/565 nm	PerCP 482/677 nm
CF@568 562/583 nm	CF@680 681/698 nm
CF@594 593/614 nm	APC-CF@750T 650/780 nm
CF@633 630/650 nm	CF@750 755/777 nm
	CF@770 770/797 nm

Bright & photostable

显微镜和共聚焦显微镜成像

CF@405S 404/431 nm	CF@568 562/583 nm
CF@405M 408/452 nm	CF@583R 586/609 nm
CF@430 426/498 nm	CF@594 593/614 nm
CF@440 440/515 nm	CF@633 630/650 nm
CF@450 405/460 nm	CF@640R 642/662 nm
CF@488A 490/515 nm	CF@660R 663/682 nm
CF@532 527/558 nm	CF@680R 680/701 nm
CF@543 541/560 nm	CF@750 755/777 nm

405 nm-excitabile

紫光激光

CF@405S 404/431 nm	CF@430 426/498 nm
CF@405M 408/452 nm	CF@440 440/515 nm
CF@405L 395/545 nm	CF@450 405/460 nm

Near-infrared

行业领先的近红外染料，用于显微镜、流式细胞术、体内成像和全波段

CF@680 681/698 nm	CF@770 770/797 nm
CF@680R 680/701 nm	CF@790 784/806 nm
CF@700 695/720 nm	CF@800 797/816 nm
CF@750 755/777 nm	CF@820 822/835 nm

The Fab Four

4色共聚焦首选

CF@405S 404/431 nm	CF@568 562/583 nm
CF@488A 490/515 nm	CF@640R 642/662 nm

Near-IR western

最佳匹配LI-COR Odyssey®

CF@680 681/698 nm	CF@770 770/797 nm
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Alternative spectra

FRET、多光谱成像或其他专业应用

CF@450 405/460 nm	CF@550R 551/577 nm
CF@503R 503/532 nm	CF@620R 617/639 nm
CF@514 516/548 nm	CF@660C 667/685 nm
CF@405L 395/545 nm	CF@800 797/816 nm
	CF@820 822/835 nm

STED

CF@405M 408/452 nm	CF@680R 680/701 nm
CF@488A 490/515 nm	

Photoacoustic imaging

光声成像

CF@750 755/777 nm

SIM

CF@405S 404/431 nm	CF@568 562/583 nm
CF@405M 408/452 nm	CF@640R 642/662 nm

STORM

CF@488A 490/515 nm	CF@568 562/583 nm	CF@680 681/698 nm
CF@535ST 527/558 nm	CF@594ST 593/614 nm	CF@680R 680/701 nm
CF@555 555/565 nm	CF@647 650/665 nm	CF@750 755/777 nm
	CF@660C 667/685 nm	

TIRF

CF@488A 490/515 nm	CF@633 630/650 nm
CF@568 562/583 nm	CF@640R 642/662 nm

2-photon

双光子显微镜

CF@488A 490/515 nm	CF@680R 680/701 nm
CF@594 593/614 nm	

CF®染料一直在进行新的应用测试，欢迎垂询中国区总代理艾美捷科技



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