

CELENA® S LED Filter Cube Selection Guide



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Cat #	LED Filter Cubes	Fluorochrome	Peak Excitation(nM)	Peak Emission(nM)	Compatibility
I10101	DAPI (Ex375/28, Em460/50)	Alexa Fluor 405	401	422	Empirical
I10101	DAPI (Ex375/28, Em460/50)	AMC (7-amino-4-methylcoumarin)	351	430	Empirical
I10101	DAPI (Ex375/28, Em460/50)	DyLight 405	399	433	Empirical
I10101	DAPI (Ex375/28, Em460/50)	DyLight 350	352	435	Empirical
I10101	DAPI (Ex375/28, Em460/50)	Calcein Blue	373	440	Empirical
I10101	DAPI (Ex375/28, Em460/50)	Alexa Fluor 350™	346	442	Empirical
I10101	DAPI (Ex375/28, Em460/50)	EBFP2	385	448	Empirical
I10101	DAPI (Ex375/28, Em460/50)	DiFMU (pH 9.0)	357	450	Empirical
I10101	DAPI (Ex375/28, Em460/50)	Hoechst 33258	352	461	Empirical
I10101	DAPI (Ex375/28, Em460/50)	DAPI	359	461	Empirical
I10101	DAPI (Ex375/28, Em460/50)	Coumarin	384	470	Empirical
I10101	DAPI (Ex375/28, Em460/50)	Atto 390	390	479	Empirical
I10101	DAPI (Ex375/28, Em460/50)	Hoechst 33342	347	483	Empirical
I10102	EGFP (Ex470/30, Em530/50)	DiO	484	502	Empirical
I10102	EGFP (Ex470/30, Em530/50)	ZsGreen1	493	505	Empirical
I10102	EGFP (Ex470/30, Em530/50)	Cy2™	489	506	Empirical
I10102	EGFP (Ex470/30, Em530/50)	Atto 465	453	507	Empirical
I10102	EGFP (Ex470/30, Em530/50)	EGFP	488	507	Empirical
I10102	EGFP (Ex470/30, Em530/50)	YOYO-1	491	509	Empirical
I10102	EGFP (Ex470/30, Em530/50)	Emerald GFP	489	510	Empirical
I10102	EGFP (Ex470/30, Em530/50)	Rhodamine Green	497	523	Empirical
I10102	EGFP (Ex470/30, Em530/50)	Acridine Orange + DNA	500	526	Empirical
I10102	EGFP (Ex470/30, Em530/50)	Alexa Fluor 430	432	540	Empirical
I10102	EGFP (Ex470/30, Em530/50)	DAF-FM	493	540	Empirical
I10103	RFP (Ex530/40, Em605/55)	mOrange2	548	562	Empirical
I10103	RFP (Ex530/40, Em605/55)	Alexa Fluor 555™	553	568	Empirical
I10103	RFP (Ex530/40, Em605/55)	BODIPY TMR	544	569	Empirical
I10103	RFP (Ex530/40, Em605/55)	Dil	551	569	Empirical
I10103	RFP (Ex530/40, Em605/55)	DyLight 549	554	569	Empirical
I10103	RFP (Ex530/40, Em605/55)	SYTOX Orange	548	570	Empirical
I10103	RFP (Ex530/40, Em605/55)	Cy3™	552	570	Empirical
I10103	RFP (Ex530/40, Em605/55)	Alexa Fluor 546™	556	573	Empirical
I10103	RFP (Ex530/40, Em605/55)	Atto 550	554	576	Empirical
I10103	RFP (Ex530/40, Em605/55)	R-phycoerythrin	565	578	Empirical

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I10103	RFP (Ex530/40, Em605/55)	TAMRA	555	580	Empirical
I10103	RFP (Ex530/40, Em605/55)	Tetramethylrhodamine isothiocyanate (TRITC)	555	580	Empirical
I10103	RFP (Ex530/40, Em605/55)	RFP (TagRFP)	548	581	Empirical
I10103	RFP (Ex530/40, Em605/55)	DsRed	557	584	Empirical
I10103	RFP (Ex530/40, Em605/55)	alamarBlue	570	584	Empirical
I10103	RFP (Ex530/40, Em605/55)	Rhodamine Red	570	590	Empirical
I10103	RFP (Ex530/40, Em605/55)	Ethidium Bromide (EtBR)	520	603	Empirical
I10103	RFP (Ex530/40, Em605/55)	mRFP1	584	607	Empirical
I10104	mCherry (Ex580/25, Em645/75)	Cy3.5™	581	598	Empirical
I10104	mCherry (Ex580/25, Em645/75)	Alexa Fluor 568™	578	603	Empirical
I10104	mCherry (Ex580/25, Em645/75)	Sulforhodamine 101	586	605	Empirical
I10104	mCherry (Ex580/25, Em645/75)	mRFP1	584	607	Empirical
I10104	mCherry (Ex580/25, Em645/75)	mCherry	587	610	Empirical
I10104	mCherry (Ex580/25, Em645/75)	Texas Red	592	615	Empirical
I10104	mCherry (Ex580/25, Em645/75)	DyLight 594	592	616	Empirical
I10104	mCherry (Ex580/25, Em645/75)	Alexa Fluor 594™	590	617	Empirical
I10104	mCherry (Ex580/25, Em645/75)	Alexa Fluor 610	610	629	Empirical
I10104	mCherry (Ex580/25, Em645/75)	mKate2	589	634	Empirical
I10104	mCherry (Ex580/25, Em645/75)	7-AAD (7-aminoactinomycin D)	549	644	Empirical
I10104	mCherry (Ex580/25, Em645/75)	mPlum	589	648	Empirical
I10104	mCherry (Ex580/25, Em645/75)	TurboFP650	592	650	Empirical
I10105	ECFP (Ex436/20, Em480/40)	CFP	433	475	Empirical
I10105	ECFP (Ex436/20, Em480/40)	ECFP	434	477	Empirical
I10105	ECFP (Ex436/20, Em480/40)	SYTO 45	452	484	Empirical
I10105	ECFP (Ex436/20, Em480/40)	Atto 425	436	485	Empirical
I10105	ECFP (Ex436/20, Em480/40)	AmCyan	458	489	Empirical
I10105	ECFP (Ex436/20, Em480/40)	Atto 465	453	507	Empirical
I10106	EYFP (Ex500/20, Em535/30)	BODIPY FL (pH 7.2)	505	512	Empirical
I10106	EYFP (Ex500/20, Em535/30)	Oregon Green™ 488	490	514	Empirical
I10106	EYFP (Ex500/20, Em535/30)	DyLight 488	492	517	Empirical
I10106	EYFP (Ex500/20, Em535/30)	Calcein	494	517	Empirical
I10106	EYFP (Ex500/20, Em535/30)	FAM (5-FAM; carboxyfluorescein)	492	518	Empirical
I10106	EYFP (Ex500/20, Em535/30)	Alexa Fluor 488™	498	520	Empirical
I10106	EYFP (Ex500/20, Em535/30)	SYBR® Green I	498	522	Empirical

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I10106	EYFP (Ex500/20, Em535/30)	PicoGreen	502	522	Empirical
I10106	EYFP (Ex500/20, Em535/30)	Rhodamine Green	497	523	Empirical
I10106	EYFP (Ex500/20, Em535/30)	SYTOX Green	504	523	Empirical
I10106	EYFP (Ex500/20, Em535/30)	SYBR Safe	507	524	Empirical
I10106	EYFP (Ex500/20, Em535/30)	FITC	490	525	Empirical
I10106	EYFP (Ex500/20, Em535/30)	Atto 488	501	525	Empirical
I10106	EYFP (Ex500/20, Em535/30)	SYTO 11	506	525	Empirical
I10106	EYFP (Ex500/20, Em535/30)	Acridine Orange + DNA	500	526	Empirical
I10106	EYFP (Ex500/20, Em535/30)	Fluo-3	505	526	Empirical
I10106	EYFP (Ex500/20, Em535/30)	Oregon Green™ 514	506	526	Empirical
I10106	EYFP (Ex500/20, Em535/30)	SYTO RNASelect	503	527	Empirical
I10106	EYFP (Ex500/20, Em535/30)	EYFP (pH 7)	514	527	Empirical
I10106	EYFP (Ex500/20, Em535/30)	Rhodamine 123	507	529	Empirical
I10106	EYFP (Ex500/20, Em535/30)	YFP	512	529	Empirical
I10106	EYFP (Ex500/20, Em535/30)	Citrine	514	529	Empirical
I10106	EYFP (Ex500/20, Em535/30)	Topaz	514	529	Empirical
I10106	EYFP (Ex500/20, Em535/30)	Calcium Green™-1	506	531	Empirical
I10106	EYFP (Ex500/20, Em535/30)	TOTO-1	513	531	Empirical
I10106	EYFP (Ex500/20, Em535/30)	SYBR Gold	495	533	Empirical
I10106	EYFP (Ex500/20, Em535/30)	Alexa Fluor 514™	517	539	Empirical
I10106	EYFP (Ex500/20, Em535/30)	ZsYellow	529	539	Empirical
I10106	EYFP (Ex500/20, Em535/30)	Alexa Fluor 532™	531	554	Empirical
I10106	EYFP (Ex500/20, Em535/30)	Rhodamine 6G	525	555	Empirical
I10107	DSRed (Ex530/40, Em620/60)	RFP (TagRFP)	548	581	Empirical
I10107	DSRed (Ex530/40, Em620/60)	DsRed	557	584	Empirical
I10107	DSRed (Ex530/40, Em620/60)	alamarBlue	570	584	Empirical
I10107	DSRed (Ex530/40, Em620/60)	Ethidium homodimer-1/DNA	527	617	Empirical
I10107	DSRed (Ex530/40, Em620/60)	Propidium Iodide (PI)	536	617	Empirical
I10107	DSRed (Ex530/40, Em620/60)	7-AAD (7-aminoactinomycin D)	549	644	Empirical
I10108	Cy5 (Ex620/60, Em700/75)	SYTOX Red	640	658	Empirical
I10108	Cy5 (Ex620/60, Em700/75)	TOTO-3	642	661	Empirical
I10108	Cy5 (Ex620/60, Em700/75)	BODIPY 650/665	647	665	Empirical
I10108	Cy5 (Ex620/60, Em700/75)	DiD	645	670	Empirical
I10108	Cy5 (Ex620/60, Em700/75)	Cy5™	649	670	Empirical

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I10108	Cy5 (Ex620/60, Em700/75)	SYTO-60	649	681	Empirical
I10108	Cy5 (Ex620/60, Em700/75)	SYTO-62	650	681	Empirical
I10108	Cy5 (Ex620/60, Em700/75)	Alexa Fluor 660 antibody conjugate	663	691	Empirical
I10109	Cy7 (Ex710/75, Em810/90)	Cy7™	743	767	Empirical
I10109	Cy7 (Ex710/75, Em810/90)	DyLight 750	751	772	Empirical
I10109	Cy7 (Ex710/75, Em810/90)	Alexa Fluor 750™	752	779	Empirical
I10109	Cy7 (Ex710/75, Em810/90)	DiR	748	780	Empirical
I10110	Cy3/TRITC longpass (Ex530/40, Em570lp)	R-phycoerythrin	565	578	Empirical
I10111	GFP long pass (Ex470/40, Em500lp)	SYTO 9	482	500	Empirical
I10111	GFP long pass (Ex470/40, Em500lp)	DiA	456	591	Empirical
I10111	GFP long pass (Ex470/40, Em500lp)	FM™ 1-43	479	598	Empirical
I10112	Cy5 long pass (Ex620/60, Em665lp)	mRaspberry	598	625	Empirical
I10112	Cy5 long pass (Ex620/60, Em665lp)	YOYO-3	612	631	Empirical
I10112	Cy5 long pass (Ex620/60, Em665lp)	SYTO-17	619	638	Empirical
I10112	Cy5 long pass (Ex620/60, Em665lp)	SYTO 59	622	645	Empirical
I10112	Cy5 long pass (Ex620/60, Em665lp)	DyLight 633	623	645	Empirical
I10112	Cy5 long pass (Ex620/60, Em665lp)	Alexa Fluor 633™	632	647	Empirical
I10112	Cy5 long pass (Ex620/60, Em665lp)	SYTO 61	619	649	Empirical
I10112	Cy5 long pass (Ex620/60, Em665lp)	Atto 633	630	657	Empirical
I10112	Cy5 long pass (Ex620/60, Em665lp)	SYTOX Red	640	658	Empirical
I10112	Cy5 long pass (Ex620/60, Em665lp)	Nile Blue	631	660	Empirical
I10112	Cy5 long pass (Ex620/60, Em665lp)	TOTO-3	642	661	Empirical
I10112	Cy5 long pass (Ex620/60, Em665lp)	Alexa Fluor 647™	649	666	Empirical
I10112	Cy5 long pass (Ex620/60, Em665lp)	DyLight 649	652	667	Empirical
I10112	Cy5 long pass (Ex620/60, Em665lp)	Atto 647N	644	669	Empirical
I10112	Cy5 long pass (Ex620/60, Em665lp)	Cy5™	649	670	Empirical
I10112	Cy5 long pass (Ex620/60, Em665lp)	Draq5	647	683	Empirical