

Other Cubes
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[GFP light cube](#)
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	Dye	ABS Peak	EM Peak	Spectrum Match*
	DAPI light cube	357/44 EX	447/60 EM	
DAPI light cube	1,8-ANS	372	480	Excellent
	4-methylumbelliferone	360	440	Excellent
	7-amino-4-methylcoumarin	351	430	Excellent
	7-hydroxy-4-methylcoumarin	360	449	Excellent
	ABQ	344	445	Excellent
DAPI light cube	Acridine	362	462	Excellent
	Alexa Fluor 350	346	442	Excellent
	Alexa Fluor 405	401	421	Excellent
	AMCA	345	425	Excellent
	AMCA-X	353	442	Excellent
DAPI light cube	BFP	382	448	Excellent
	Calcein Blue	373	440	Good
	Calcein Violet	401	451	Excellent
	Calcofluor White	350	440	Excellent
	Cascade Blue	377	420	Good
DAPI light cube	Dansyl	335	525	Fair
	DAPI	345	455	Excellent
	DiFMU (pH 9.0)	357	450	Excellent
	ER-Tracker Blue-White DPX	371	554	Excellent
	Fast Blue	360	440	Excellent
DAPI light cube	Fluospheres Blue	356	412	Excellent
	Hoechst 33258	345	487	Excellent
	Hoechst 33342	347	483	Excellent
	Live/Dead Fixable Blue Dead Cell Stain	344	442	Excellent
	LysoSensor Blue	374	424	Excellent
DAPI light cube	LysoTracker Blue	373	422	Excellent
	Marina Blue	365	460	Excellent
	Methoxycoumarin	360	410	Good
	Monochlorobimane	380	461	Good
	Pacific Blue	405	455	Excellent
DAPI light cube	PBFI	360	420	Good
	Phorwite AR	360	430	Good
	Quinine Sulfate	349	461	Excellent
	sgBFP™ (Super Glow BFP)	387	450	Good
	SITS	365	460	Good
DAPI light cube	SpectrumBlue®	405	449	Excellent
	Thioflavin TCN	350	460	Excellent
	Thiolyte	378	483	Good
	True Blue	365	425	Excellent
	Uvitex SFC	365	435	Excellent
	Y66H	360	442	Excellent

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	Dye	ABS Peak	EM Peak	Spectrum Match*
	GFP light cube	470/22 EX	525/50 EM	
GFP light cube	5-FAM (carboxyfluorescein)	492	518	Good
	Acridine Orange	500	526	Good
	Acridine Yellow	470	550	Excellent
	Alexa Fluor 430™	432	540	Good
GFP light cube	Alexa Fluor 480™	490	510	Excellent
	Alexa Fluor 488™	500	540	Good
	Amplex Gold	512	540	Good
	ATTO 465	453	507	Excellent
GFP light cube	Auramine	460	540	Excellent
	Aurophosphine	470	540	Excellent
	BCECF	499	540	Good
	BODIPY 492/515	490	540	Good
GFP light cube	BODIPY 505/515	502	540	Good
	Bodipy FL	502	540	Good
	BTC	464	540	Excellent
	Calcein	494	540	Good
GFP light cube	Calcium Green-1	506	540	Fair
	Catskill Green 540	482	540	Excellent
	CellTracker Green	490	540	Excellent
	CFDA	494	540	Good
GFP light cube	CFP	434	540	Fair
	Cy2	492	540	Excellent
	cyQUANT GR	500	540	Excellent
	DAF-FM	493	540	Good
GFP light cube	DCF	504	540	Good
	DiO	489	540	Excellent
	Diversa Green-FP	484	507	Excellent
	Emerald	490	540	Good
GFP light cube	FITC	492	520	Excellent
	Fluo-3	506	540	Fair
	Fluo-4	494	540	Good
	Fluoro-Emerald	494	518	Good
GFP light cube	Fluoro-Jade B	480	525	Excellent
	Fluor-X	494	520	Good
	FluoSpheres Yellow-Green	501	513	Good
	GFP (EGFP)	488	507	Excellent
GFP light cube	HCS LipidTox Green	498	506	Fair
	HPTS (Solvent Green 7)	455	510	Excellent
	Live/Dead Fixable Green	498	526	Good
	Lucifer Yellow	423	543	Fair
	LysoSensor Green	448	503	Excellent

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	Dye	ABS Peak	EM Peak	Spectrum Match*
GFP light cube	LysoTracker Green	504	511	Good
	Magnesium Green	506	530	Fair
	mHoneydew	478	561	Excellent
	MitoTracker™ Green FM	490	512	Excellent
	NBD Amine	450	530	Excellent
	NBD-X	467	538	Excellent
GFP light cube	Neurotrace 500/525 Green	497	524	Excellent
	Nitrobenzoxadidole	465	510	Excellent
	Oregon Green™ 488	498	524	Good
	Oregon Green™ 514	512	532	Fair
	PicoGreen	502	522	Good
	Qdot 525	UV	525	Fair
GFP light cube	Qdot 545	UV	543	Fair
	Rhodamine 110	496	520	Good
	Rhodamine 123	507	529	Fair
	Rhodamine Green	497	523	Good
	Rhodol Green	496	523	Good
	rsGFP (red shifted GFP, S65T)	498	516	Good
GFP light cube	S65C	479	507	Good
	S65L	484	510	Good
	S65T	488	511	Good
	sgGFP™ (Super Glow GFP)	474	509	Excellent
	Sodium Green	506	532	Good
	SpectrumGreen®	498	522	Good
GFP light cube	Surf Green EX	469	526	Excellent
	SYBR Gold	495	439	Good
	SYBR Green I	497	521	Good
	SYBR Safe	507	524	Good
	SYTO 11	506	525	Fair
	SYTO 13	487	505	Good
GFP light cube	SYTO 16	490	520	Excellent
	SYTO 45	452	484	Good
	SYTO 9	482	500	Excellent
	SYTO RNASelect	503	527	Good
	SYTOX Green	504	523	Good
	TET	520	541	Fair
GFP light cube	TO-PRO-1	515	530	Fair
	TOTO-1	513	531	Fair
	Vibrant Dyecycle Green	505	532	Good
	wtGFP (wild type GFP, non-UV excitation)	475	509	Excellent
	YFP	512	529	Fair
	YO-PRO-1	491	507	Excellent
GFP light cube	YOYO-1	491	509	Excellent

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	Dye	ABS Peak	EM Peak	Spectrum Match*
RFP light cube	RFP light cube	531/40 EX	593/40 EM	
	Alexa Fluor 532	532	554	Good
RFP light cube	Alexa Fluor 546	561	572	Good
	Alexa Fluor 555	555	565	Excellent
RFP light cube	Alexa Fluor 568	578	603	Good
	Alexa Fluor 594	590	621	Good
RFP light cube	Amplex Red	571	583	Excellent
	Amplex UltraRed	568	583	Excellent
RFP light cube	BOBO-3	570	602	Good
	Bodipy R6G	527	547	Good
RFP light cube	Bodipy TMR	544	569	Excellent
	Bodipy TRX	588	620	Fair
RFP light cube	Calcium Orange	549	575	Excellent
	Carboxy SNARF-1	548	587	Excellent
RFP light cube	Carboxyrhodamine 6G	524	547	Good
	CellMask Orange	556	571	Excellent
RFP light cube	CellTrace Calcein Red-Orange	575	591	Good
	CellTracker Orange	547	575	Excellent
RFP light cube	CellTracker Red	585	612	Good
	Cy3	552	570	Excellent
RFP light cube	Cy3.5	579	597	Good
	Dil	551	568	Excellent
RFP light cube	DsRed Monomer	556	586	Good
	DsRed2	563	582	Fair
RFP light cube	DsRed-Express	557	579	Good
	dTomato	554	581	Good
RFP light cube	Eosin	524	545	Good
	Ethidium Bromide	521	602	Good
RFP light cube	Ethidium Homodimer-1	530	618	Excellent
	Fluospheres Orange	539	560	Good
RFP light cube	Fluospheres Red	575	607	Good
	FocalCheck Double Orange	540	555	Good
RFP light cube	FocalCheck Double Red	589	612	Good
	HCS LipidTox Red	582	615	Good
RFP light cube	HEX	533	558	Excellent
	JOJO-1	529	545	Good
RFP light cube	Live/Dead Fixable Red	593	613	Fair
	LOLO-1	566	580	Good
RFP light cube	Lysotracker Red	577	592	Excellent
	MitoTracker Orange	551	576	Excellent
RFP light cube	MitoTracker Red	578	599	Good

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	Dye	ABS Peak	EM Peak	Spectrum Match*
RFP light cube	mOrange	548	568	Good
	mStrawberry	575	596	Good
	mTangerine	568	585	Good
RFP light cube	Nile Red	551	636	Good
	OFP	546	568	Excellent
	pHrodo	559	586	Excellent
RFP light cube	Phycoerythrin (PE)	567	576	Good
	POPO-3	532	573	Excellent
	PO-PRO-3	539	570	Excellent
RFP light cube	Propidium Iodide	530	618	Good
	Pro-Q Diamond	557	581	Excellent
	ReAsH	592	608	Good
RFP light cube	Resorufin	570	585	Excellent
	RFP	552	585	Excellent
	RH795	490	688	Fair
RFP light cube	Rhod-2	551	576	Excellent
	Rhodamine Phalloidin	557	576	Excellent
	Rhodamine Red	560	580	Good
RFP light cube	ROX	568	595	Good
	R-Phycoerythrin	565	575	Excellent
	SpectrumOrange®	559	588	Excellent
RFP light cube	Sulfarhodamine 101	578	593	Good
	SYPRO Ruby	468	633	Fair
	SYTO 11	505	525	Fair
RFP light cube	SYTO RNASelect	504	526	Fair
	SYTOX AAdvanced Dead Cell Stain	546	645	Fair
	SYTOX Orange	567	570	Excellent
RFP light cube	Tag RFP	555	584	Excellent
	TAMRA	565	580	Excellent
	TET	521	542	Fair
RFP light cube	Tetramethylrhodamine (TRITC)	555	580	Excellent
	Texas Red	591	613	Fair
	TO-PRO-1	513	530	Good
RFP light cube	TOTO-1	512	532	Fair
	TurboRFP	553	574	Excellent
	Vibrant Dyecycle Green	504	532	Fair
RFP light cube	Vibrant Dyecycle Orange	518	562	Excellent
	X-Rhod-1	570	576	Good

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	Dye	ABS Peak	EM Peak	Spectrum Match*
Texas Red light cube	Texas Red light cube	585/29 EX	624/40 EM	
	2-dodecylresorufin	582	595	Excellent
	5-ROX	577	603	Excellent
	7-AAD	549	644	Good
	alamarBlue	570	584	Fair
	Alexa Fluor 568	578	603	Good
	Alexa Fluor 594	590	618	Excellent
	Alexa Fluor 610	610	629	Fair
	Amplex Red	570	583	Fair
	Amplex Ultra Red	567	582	Fair
Texas Red light cube	BOBO-3	571	606	Good
	Bodipy 630/650-X	625	641	Fair
	Bodipy TR-X	588	621	Excellent
	Calcium Crimson	589	608	Excellent
	CellTrace BODIPY TR methyl ester	597	625	Excellent
	CellTrace calcein red-orange	575	592	Good
	CellTracker Red CMTPX	584	613	Excellent
	Cy 3.5	581	597	Good
	DsRed2	563	588	Fair
	Fluospheres Crimson microspheres	620	646	Good
Texas Red light cube	Fluospheres Red microspheres	577	608	Excellent
	HCS CellMask Red cytoplasmic/nuclear	621	644	Fair
	HCS CellMask Red stain	587	614	Excellent
	HCS LipidTOX Red	582	615	Excellent
	HCS NuclearMask Red	624	644	Fair
	HC Red	594	649	Fair
	Katushka (Turbo FP635)	588	635	Excellent
	LiveDead Fixable Red Dead Cell stain	595	613	Excellent
	LOLO-1	568	580	Fair
	LysoTracker Red	573	592	Good
Texas Red light cube	Magic Red	570	630	Good
	MitroTracker Red	578	597	Excellent
	mCherry	587	615	Excellent
	mKate	588	635	Excellent
	mPlum	590	649	Fair
	mRaspberry	598	625	Good
	Nile Red phospholipid	551	638	Excellent
	pHrodo	559	587	Fair
	ReAsH	593	608	Excellent
	resorufin	570	583	Fair
Texas Red light cube	rhodamine phalloidin	558	577	Fair
	rhodamine Red-X	572	591	Good

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	Dye	ABS Peak	EM Peak	Spectrum Match*
Texas Red light cube	sulforhodamine 101	577	593	Good
	SYTO 17	620	635	Good
	SYTO 59	622	645	Fair
	SYTO 61	619	649	Fair
	SYTOX AADvanced dead cell stain	546	647	Good
	Texas Red	592	615	Excellent
	X-rhod-1	579	602	Excellent
	YO-PRO-3	612	628	Good
	YO-YO-3	612	631	Good

	Dye	ABS Peak	EM Peak	Spectrum Match*	
Cy5 light cube	Cy5 light cube	628/40 EX	692/40 EM		
	Alexa Fluor 594	591	621	Fair	
	Alexa Fluor 610	611	630	Fair	
	Alexa Fluor 633	631	650	Good	
	Alexa Fluor 635	634	647	Fair	
	Alexa Fluor 647 hydrazide	650	670	Good	
	Alexa Fluor 660 antibody conjugate	663	691	Excellent	
	Alexa Fluor 680 antibody conjugate	679	704	Good	
	Alexa Fluor 680 R phycoerythrin	568	700	Fair	
	Alexa Fluor 680 allophycocyanin	680	703	Excellent	
	APC (Allophycocyanin)	651	660	Good	
	Bodipy 630/650X	626	641	Fair	
	Bodipy 650/665	647	665	Good	
	Carboxynaphthofluorescein	600	674	Excellent	
	CellMask Deep Red plasma membrane stain	658	676	Good	
	Cy5 light cube	Cy5	648	666	Good
		Cy5.5	678	696	Good
		DDAO	648	658	Good
		DiD Lipid	645	670	Excellent
		DRAQ-5	650	680	Excellent
		FluoSpheres crimson microspheres	621	646	Good
		FluoSpheres dark red microspheres	657	683	Excellent
		FocalCheck DoubleFarRed General stain	669	692	Good
		FocalCheck DoubleFarRed Ring stain	655	677	Excellent
	Cy5 light cube	FxCycle Far Red stain	641	657	Good
		HCS CellMask Deep Red stain	649	670	Excellent
		HCS CellMask Red cytoplasmic/nuclear stain	621	642	Good
		HCS LipidTOX Deep Red	634	652	Good
		HCS NuclearMask Deep Red	635	687	Excellent

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	Dye	ABS Peak	EM Peak	Spectrum Match*
Cy5 light cube	HCS NuclearMask Red	622	644	Good
	MitoTracker Deep Red FM	641	661	Good
	SYTO-17	619	638	Fair
	SYTO-59	621	644	Good
	SYTO-60	649	681	Excellent
	SYTO-62	650	681	Excellent
	SYTOX Red	640	658	Good
	TO-PRO-3	642	657	Good
	TO-TO-3	642	661	Good

	Dye	ABS Peak	EM Peak	Spectrum Match*
CFP	CFP light cube	442/46 EX	510/42 EM	
	ECFP	434	477	Excellent

	Dye	ABS Peak	EM Peak	Spectrum Match*
YFP	YFP light cube	500/24 EX	542/27 EM	
	EYFP	514	527	Excellent

* Predicts (but does not guarantee) imaging performance with the designated EVOS light cube. For dyes that are not on this list, please contact AMG for assistance.