

# Lux3 FL compatible live-cell dyes

CytoSMART Technologies, Eindhoven, The Netherlands

Green channel

Excitation: 452/45 nm Emission: 512/23 nm

Fluorescent protein	Peak excitation (nm)	Peak emission (nm)
AausFP1	504	510
AvicFP1	481	503
AzamiGreen	492	505
BrUSLEE	487	509
Cerulean	433	475
Clover	505	515
Dendra2 (green)	490	507
Dronpa (on)	503	518
EGFP	488	507
Gamillus (on)	504	519
GCaMP6f (in presence of Ca <sup>2+</sup> )	496	513
Kohinoor (on)	495	514
mAvicFP1	480	503
mAzamiGreen	492	505
mClover3	506	518
mEGFP	488	507
mEmerald	487	509
mEos3.1 (green)	505	513
mEos4a (green)	505	515
MiCy (Midoriishi Cyan)	472	495
mMaple (green)	489	505
mMiCy	470	496
mNeonGreen	506	517
moxDendra2 (green)	490	504
moxGFP	486	510
mTFP1	462	492
muGFP	490	508
mUkG (mUmikinoko-Green)	483	499
mWasabi	493	509
NowGFP	494	502
oxGFP	486	510
ppluGFP2	482	502
rsEGFP and rsEGFP2 (on)	493 / 478	510 / 503
rsFAstLime (on)	496	518
rsFolder / rsFolder2 (Green)	477 / 478	503 / 503
Skylan-NS / Skylan-S (on)	499 / 499	511 / 511
Superfolder GFP (sfGFP)	485	510
TagCFP	458	480
TagGFP / TagGFP2	482 / 483	505 / 506
usGFP	490	508
vsfGFP-0 / vsfGFP-9	485 / 485	510 / 510
wasCFP	494	505
ZsGreen	496	506

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Red channel

Excitation: 561/14 nm Emission: 630/90 nm

Fluorescent protein	Peak excitation (nm)	Peak emission (nm)
AzaleaB5	574	596
CAR-GECO1 (calcium saturated)	562	609
cgfTagRFP	556	585
CyRFP1	529	588
Dendra2 (red)	553	573
Dendra2-T69A (orange)	563	578
DsRed / DsRed2	558 / 561	583 / 587
DsRed-Express / DsRedEspress2	554 / 554	586 / 591
DsRed Max	560	589
dTomato	554	581
E2-Crimson	611	646
E2- Orange	540	561
eqFP611	559	611
eqFP650	592	650
FusionRed	580	608
HcRed7	592	645
jRCaMP1a (calcium free) / jRCaMP1a (calcium saturated)	573 / 572	595 / 594
Jred	584	610
jRGECO1a (calcium saturated)	562	588
Kaede (Red)	572	580
Katushka / Katushka2S	588 / 588	635 / 633
K-GECO1 (calcium saturated)	569	593
KikGR1 (red)	583	593
KillerRed	585	610
KO	548	561
mApple	568	592
mCardinal	604	659
mCherry / mCherry2	587 / 589	610 / 610
mCyFRP1	528	594
mEos2 (red)	573	584
mEos3.1 (red) / mEos3.2 (red)	570 / 572	580 / 580
mEos4a (red) / mEos4b (red)	571 / 570	580 / 580
mKate / mKate2	588 / 588	635 / 633
mKate S158A (mLumin) / mKate S158C	585 / 586	630 / 630
mKelly1 / mKelly2	596 / 598	656 / 649
mKikGR (red)	580	591
mKO / mKO2 / mKO κ	548 / 551 / 551	559 / 565 / 563
mMaple (red) / mMaple3	566 / 568	583 / 583
mNeptune / mNeptune2.5	600 / 599	650 / 643
mOrange / mOrange2	548 / 549	562 / 565
moxDendra2 (red)	551	571
moxMaple3 (red)	569	584
mRaspberry	598	625

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Red channel

Excitation: 561/14 nm Emission: 630/90 nm

Fluorescent protein	Peak excitation (nm)	Peak emission (nm)
mRFP1	584	607
mRuby / mRuby2 / mRuby3	558 / 559 / 558	605 / 600 / 592
mScarlet / mScarlet-H / mScarlet-l	569 / 551 / 596	594 / 592 / 593
mStable	597	633
mStrawberry	574	596
mTangerine	568	585
Neptune	600	650
PAmCherry1 (on)	564	595
PATagRFP (on)	562	595
pHuji	566	598
plobRFP	578	614
PSmOrange (orange)	548	565
R-GECO1 (calcium saturated) / R-GECO1.2 (calcium saturated)	563 / 558	588 / 585
rsFusionRed1 (on) / rsFusionRed2 (on)	577 / 580	605 / 607
smURFP	642	670
SuperNova Red	579	610
TagRFP / TagRFP-T	555 / 555	584 / 584
tdTomato	554	581
TurboRFP	553	574