

Omega Systems – Light and Filter Selection Table

DYE/STAIN	EXCITATION	TRANSILLUMINATION	EMISSION	FILTER
Pro-Q Emerald 300	280nm	UV (300nm)	530nm	Green (525nm)
SYPRO Ruby	280nm	UV (300nm)	610nm	Orange (600nm)
GelRed	285nm	UV (300nm)	595nm	Orange (600nm)
Ethidium Bromide	295nm	UV (300nm)	605nm	Orange (600nm)
SYPRO Orange	300nm	UV (300nm)	570nm	Orange (600nm)
SYPRO Red	300nm	UV (300nm)	630nm	Red (635nm)
SYBR Green	300nm	UV (300nm)	505nm	Green (525nm)
SYBR Gold	300nm	UV (300nm)	540nm	Green (525nm)
SYBR Safe	300nm	UV (300nm)	524nm	Green (525nm)

DYE/STAIN	EXCITATION	EPI-ILLUMINATION	EMISSION	FILTER
Alexa 350	346nm	UV (365nm)	442nm	Blue (450nm)
Hoechst Blue	352nm	UV (365nm)	461nm	Blue (450nm)
DAPI	358nm	UV (365nm)	461nm	Blue (450nm)
Marina Blue	365nm	UV (365nm)	460nm	Blue (450nm)
BFP	382nm	UV (365nm)	448nm	Blue (450nm)
wtGFP	359nm	UV (365nm)	508nm	Green (525nm)
CFP	458nm	Blue (470nm)	480nm	Blue (450nm)
SYPRO Orange	470nm	Blue (470nm)	570nm	Orange (600nm)
eGFP	470nm	Blue (470nm)	508nm	Green (525nm)
AcGFP	475nm	Blue (470nm)	505nm	Green (525nm)
rsGFP (red shifted)	488nm	Blue (470nm)	508nm	Green (525nm)
Cy2	489nm	Blue (470nm)	506nm	Green (525nm)
FAM	492nm	Blue (470nm)	518nm	Green (525nm)
SYBR Green	493nm	Blue (470nm)	505nm	Green (525nm)
FITC/Fluorescein	494nm	Blue (470nm)	518nm	Green (525nm)
Alexa 488	495nm	Blue (470nm)	519nm	Green (525nm)
SYBR Gold	495nm	Blue (470nm)	540nm	Green (525nm)
Rhodamine 110	496nm	Blue (470nm)	520nm	Green (525nm)
EvaGreen	497nm	Blue (470nm)	522nm	Green (525nm)
Rhodamine Green	502nm	Blue (470nm)	527nm	Green (525nm)
Rhodamine 123	507nm	Blue (470nm)	529nm	Green (525nm)
SYBR Safe	510nm	Blue (470nm)	524nm	Green (525nm)
YFP	513nm	Blue (470nm)	527nm	Green (525nm)
SYPRO Red	550nm	Green (540nm)	630nm	Red (635nm)
Cy3	550nm	Green (540nm)	570nm	Orange (600nm)
TRITC	555nm	Green (540nm)	590nm	Orange (600nm)
Alexa 546	556nm	Green (540nm)	573nm	Orange (600nm)
Pro-Q Diamond	556nm	Green (540nm)	582nm	Orange (600nm)
DsRed GFP	558nm	Green (540nm)	583nm	Orange (600nm)
Rhodamine Red	570nm	Green (540nm)	590nm	Red (635nm)
AsRed GFP	576nm	Green (540nm)	592nm	Red (635nm)
Cy3.5	581nm	Green (540nm)	596nm	Red (635nm)
HcRed GFP	588nm	Yellow (590nm)	618nm	Red (635nm)
Alexa 594	590nm	Yellow (590nm)	617nm	Red (635nm)
Texas Red	595nm	Yellow (590nm)	615nm	Red (635nm)
Cy5	649nm	Red (640nm)	670nm	Dark Red (685nm)
Alexa 647	650nm	Red (640nm)	668nm	Dark Red (685nm)
Cy5.5	675nm	Red (640nm)	674nm	Dark Red (685nm)
Qdot 525	365nm/460nm	UV (365nm)/Blue (470nm)	525nm	Green (525nm)
Qdot 565	365nm/460nm	UV (365nm)/Blue (470nm)	565nm	Qdot (565nm)
Qdot 605	365nm/460nm	UV (365nm)/Blue (470nm)	605nm	Qdot (605nm)
Qdot 655	365nm/460nm	UV (365nm)/Blue (470nm)	655nm	Red (635nm)
Qdot 705	365nm/460nm	UV (365nm)/Blue (470nm)	705nm	Dark Red (685nm)
Qdot 800	365nm/460nm	UV (365nm)/Blue (470nm)	800nm	Qdot (800nm)