

MULTIPLEXING RECOMMENDATIONS FOR DUAL-LABELED BHQ PROBES AND PRIMERS

INSTRUMENT	COMPANY	CALIBRATION REQUIRED?	DYE 1	DYE 2	DYE 3	DYE 4	DYE 5
MX3000P™	Agilent	No	FAM	CAL Fluor® Orange 560	CAL Fluor Red 610	Quasar® 670	
MX4000°	Agilent	No	FAM	CAL Fluor Orange 560	CAL Fluor Red 610	Quasar 670	
ABI® 7000	Life Technologies	Yes	FAM	CAL Fluor Gold 540	SuperROX		
ABI 7300	Life Technologies	Yes	FAM	CAL Fluor Gold 540	SuperROX		
ABI 7500	Life Technologies	Yes	FAM	CAL Fluor Orange 560	TAMRA	SuperROX	Quasar 670
ABI 7700	Life Technologies	Yes	FAM	CAL Fluor Gold 540	SuperROX**		
ABI 7900	Life Technologies	Yes	FAM	CAL Fluor Gold 540	SuperROX		
StepOne™	Life Technologies	Yes	FAM	CAL Fluor Gold 540			
StepOnePlus™	Life Technologies	Yes	FAM	CAL Fluor Gold 540	TAMRA		
QuantStudio™	Life Technologies	Yes	FAM	CAL Fluor Orange 560	SuperROX	Quasar 670	Quasar 705
ViiA™ 7	Life Technologies	Yes	FAM	CAL Fluor Orange 560	SuperROX	Quasar 670	Quasar 705
CFX96™	Bio-Rad	Yes	FAM	CAL Fluor Gold 540	CAL Fluor Red 610	Quasar 670	Quasar 705
iCycler iQ°	Bio-Rad	Yes	FAM	CAL Fluor Orange 560	CAL Fluor Red 610	Quasar 670	
iQ™5	Bio-Rad	Yes	FAM	CAL Fluor Gold 540	CAL Fluor Red 590	CAL Fluor Red 610	Quasar 670
SmartCycler°	Cepheid	Yes	FAM	CAL Fluor Orange 560	CAL Fluor Red 635		
SmartCycler II	Cepheid	Yes	FAM	CAL Fluor Orange 560	CAL Fluor Red 610	Quasar 670	
Mastercycler° ep Realplex	Eppendorf	Yes	FAM	CAL Fluor Gold 540			
Eco™	Illumina	Yes	FAM	CAL Fluor Orange 560	CAL Fluor Red 610	Quasar 670	
Rotor-Gene™ Q 2-plex	Qiagen	No	FAM	CAL Fluor Orange 560			
Rotor-Gene Q 5-plex	Qiagen	No	FAM	CAL Fluor Orange 560	CAL Fluor Red 610	Quasar 670	Quasar 705
LightCycler° 1.2	Roche	Yes	FAM	Pulsar° 650			
LightCycler 2.0	Roche	Yes	FAM	CAL Fluor Red 610	Pulsar 650		
LightCycler 480	Roche	Yes	FAM	CAL Fluor Orange 560	CAL Fluor Red 610	Quasar 670	
cobas° z 480	Roche	Yes	FAM	CAL Fluor Orange 560	CAL Fluor Red 610	Quasar 670	

These dye recommendations apply to Biosearch's dual-labeled BHQ probes and may not apply to other probe formats.

Some instruments may require fluorescence calibration. Please visit our website for more information.

Recommendations highlighted in yellow have not been proven and should be used cautiously on an experimental basis.

*SuperROX dye is Biosearch's proprietary passive reference dye.

 Determined through research at Biosearch Technologies or a collaborator

 Predicted based on instrument specifications



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