

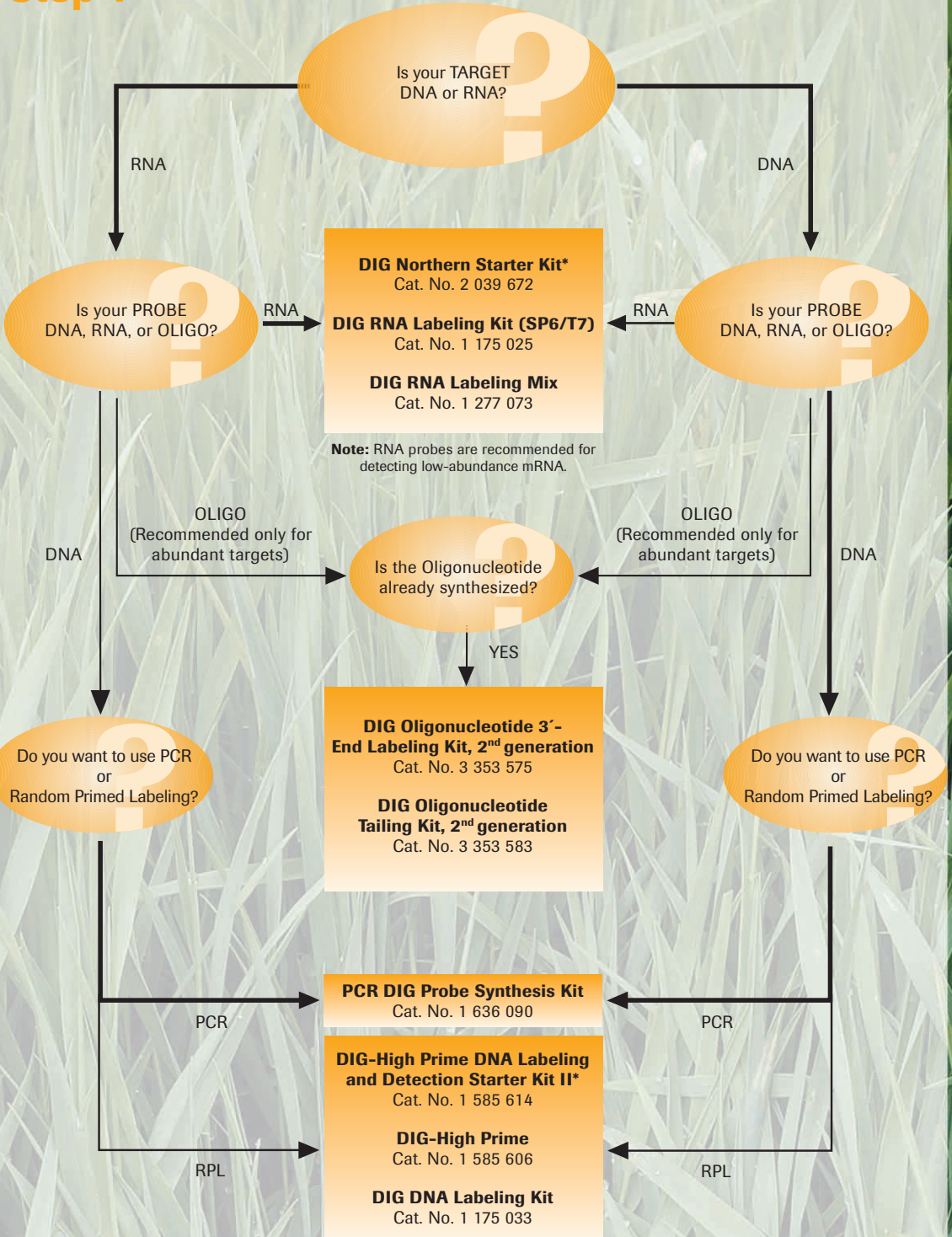
Roche Applied Science
DIG Product Selection Guide



Determine your **labeling** method.
(Heavier arrows indicate recommended pathways.)

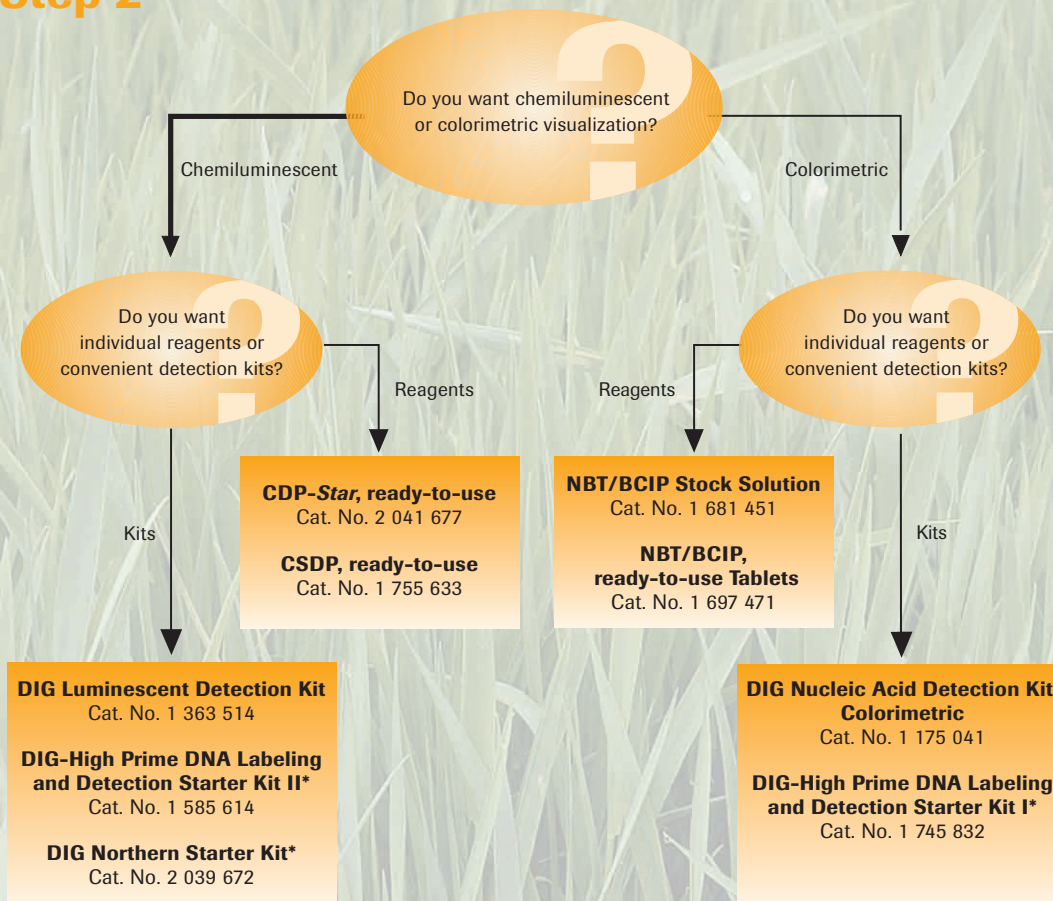


Step 1



Determine your **detection** method.

Step 2



*Note: These kits include labeling reagents and detection substrate.



Add other Roche products that will help you get the best results.

Step 3

Are there any other products that are recommended for success with DIG?

Definitely!

Anti-Digoxigenin-AP, Fab fragments

Cat. No. 1 093 274

DIG Wash and Block Buffer Set

Cat. No. 1 585 762

DIG Easy Hyb

Cat. No. 1 603 558 (solution)

Cat. No. 1 796 895 (granules)

Nylon Membranes (positively charged)

Cat. No. 1 209 299 (10 x 15 cm)

Cat. No. 1 209 272 (20 x 30 cm)

Cat. No. 1 417 240 (0.3 x 3 m)

Nylon Membranes for Colony/Plaque Hybridization

Cat. No. 1 699 075 (82 mm diameter)

Cat. No. 1 699 083 (132 mm diameter)

Hybridization Bags

Cat. No. 1 666 649

DNA Molecular Weight Markers, DIG-labeled

Cat. No. 1 218 590 (DNA MWM II, DIG-labeled)

Cat. No. 1 218 603 (DNA MWM III, DIG-labeled)

Cat. No. 1 669 931 (DNA MWM V, DIG-labeled)

Cat. No. 1 218 611 (DNA MWM VI, DIG-labeled)

Cat. No. 1 669 940 (DNA MWM VII, DIG-labeled)

Cat. No. 1 449 451 (DNA MWM VIII, DIG-labeled)

RNA Molecular Weight Markers, DIG-labeled

Cat. No. 1 526 529 (RNA MWM I, DIG-labeled)

Cat. No. 1 526 537 (RNA MWM II, DIG-labeled)

Cat. No. 1 373 099 (RNA MWM III, DIG-labeled)

Lumi-Film

Cat. No. 1 666 657 (20.3 x 25.4 cm = 8 x 10 inches)

Cat. No. 1 666 916 (18 x 24 cm = 7.1 x 8.4 inches)

The pack inserts of all listed products can be downloaded from our website at <http://www.roche-applied-science.com>

Advantages of the DIG System:

- ✓ High sensitivity – more sensitive than radioactivity
- ✓ Short exposure times (minutes rather than hours/days)
- ✓ Safety: no contact with hazardous materials
- ✓ Reusable and stable probes
- ✓ Easy stripping and reprobing of blots
- ✓ Well-established protocols (many years of experience)

Applications:

DIG labeled-probes can be used for all hybridization reactions, in particular Southern-, Dot-, or Northern Blotting, Colony Hybridization, Arrays, *In Situ* Hybridization, ELISA, RNase Protection, Gelshifts.



Product Literature and Support Material:

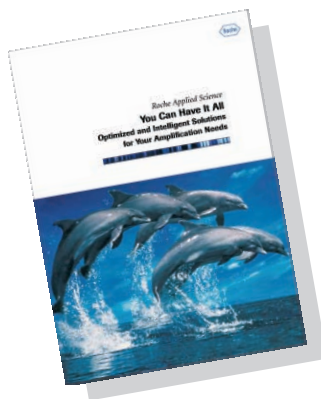
DIG Application Manual
for Filter Hybridization,
3rd edition



DIG Application Manual for
Nonradioactive *In Situ*
Hybridization, 3rd edition



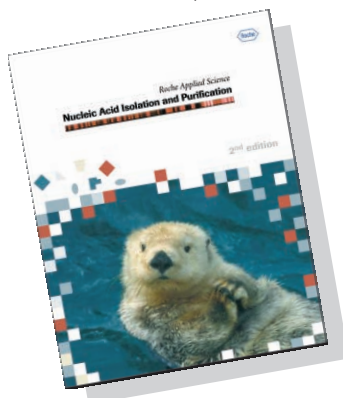
You Can Have It All
(PCR Family Brochure)



Lab FAQs
Find a Quick Solution,
2nd edition



Nucleic Isolation and
Purification Manual, 2nd edition



Restriction Enzymes
Ordering Guide



Molecular Weight Markers
for Nucleic Acids



Ordering Information

Kits for Labeling and Detection	Cat. No.	Pack Size
DIG-High Prime DNA Labeling and Detection Starter Kit I	1 745 832	1 kit (12 labeling reactions and 24 detection reactions)
DIG-High Prime DNA Labeling and Detection Starter Kit II	1 585 614	1 kit (12 labeling reactions and 24 detection reactions)
DIG DNA Labeling and Detection Kit	1 093 657	1 kit (25 labeling reactions and 50 blots)
DIG Northern Starter Kit	2 039 672	1 kit (10 labeling reactions and detection of 10 blots 10 x 10 cm ²)
Kits for Labeling	Cat. No.	Pack Size
PCR DIG Probe Synthesis Kit	1 636 090	1 kit (25 labeling reactions)
DIG DNA Labeling Kit	1 175 033	1 kit (40 labeling reactions)
DIG-High Prime	1 585 606	160 µl (40 labeling reactions)
DIG RNA Labeling Kit (SP6/T7)	1 175 025	1 kit (2 x 10 labeling reactions)
DIG Oligonucleotide 3'-End Labeling Kit, 2nd generation	3 353 575	1 kit (25 labeling reactions)
DIG Oligonucleotide 5'-End Labeling Set	1 480 863	1 set (10 labeling reactions)
DIG Oligonucleotide Tailing Kit, 2nd generation	3 353 583	1 kit (25 tailing reactions)
Mixes for Labeling	Cat. No.	Pack Size
DIG DNA Labeling Mix	1 277 065	50 µl (25 reactions)
DIG-High Prime	1 585 606	160 µl (40 reactions)
PCR DIG Labeling Mix^{**}	1 585 550	2 x 250 µl (2 x 25 reactions)
PCR DIG Labeling Mix^{PLUS**}	1 835 289	2 x 250 µl (2 x 50 reactions)
DIG RNA Labeling Mix	1 277 073	40 µl (20 reactions)
Biotin-High Prime	1 585 649	100 µl (25 reactions)
Biotin RNA Labeling Mix	1 685 597	40 µl (20 reactions)
Fluorescein-High Prime[*]	1 585 622	100 µl (25 reactions)
PCR Fluorescein Labeling Mix^{**}	1 636 154	10 PCR reactions (100 µl each)
Fluorescein RNA Labeling Mix[*]	1 658 619	40 µl (20 reactions)
Nick Translation Mix[*]	1 745 808	200 µl
DIG-Nick Translation Mix[*]	1 745 816	160 µl
Biotin-Nick Translation Mix[*]	1 745 824	160 µl
Nucleotides for Labeling	Cat. No.	Pack Size
Digoxigenin-11-dUTP, alkali-labile	1 573 152	25 nmol (25 µl)
	1 573 179	125 nmol (125 µl)
Digoxigenin-11-dUTP, alkali-stable	1 093 088	25 nmol (25 µl)
	1 558 706	125 nmol (125 µl)
	1 570 013	5 x 125 nmol (5 x 125 µl)
Digoxigenin-11-UTP	1 209 256	250 nmol (25 µl)
	3 359 247	200 nmol (57 µl)
Digoxigenin-11-ddUTP	1 363 905	25 nmol (25 µl)
Biotin-16-dUTP	1 093 070	50 nmol (50 µl)
Biotin-16-UTP	1 388 908	250 nmol (25 µl)
Biotin-16-ddUTP	1 427 598	25 nmol (25 µl)
Fluorescein-12-dUTP[*]	1 373 242	25 nmol (25 µl)
Fluorescein-12-UTP[*]	1 427 857	250 nmol (25 µl)
Tetramethyl-rhodamine-5-dUTP[*]	1 534 378	25 nmol (25 µl)

*Note: These products are especially recommended for *in situ* hybridization.

**Note: These products are recommended for direct detection.



Ordering Information, continued

Kits for Detection	Cat. No.	Pack Size
DIG Luminescent Detection Kit	1 363 514	1 kit (50 blots)
DIG Nucleic Acid Detection Kit	1 175 041	1 kit (40 blots)
Biotin Luminescent Detection Kit	1 811 592	1 kit (50 blots)
Anti-DIG Antibody for Detection on Membranes	Cat. No.	Pack Size
Anti-Digoxigenin-AP, Fab fragments	1 093 274	150 U (200 µl)
Anti-Digoxigenin-Fluorescein, Fab fragments*	1 207 741	200 µg
Anti-Digoxigenin-Rhodamine, Fab fragments*	1 207 750	200 µg
Anti-Digoxigenin-POD, Fab fragments	1 207 733	150 U
Chemiluminescent Substrates for Alkaline Phosphatase	Cat. No.	Pack Size
CDP-Star	1 685 627	1 ml
	1 759 051	2 x 1 ml
CDP-Star, ready-to-use	2 041 677	2 x 50 ml
CSPD	1 655 884	1 ml
	1 759 035	2 x 1 ml
	1 759 043	4 x 1 ml
CSPD, ready-to-use	1 755 633	2 x 50 ml
Chromogenic Substrates for Alkaline Phosphatase	Cat. No.	Pack Size
BM purple*	1 442 074	100 ml
5-Bromo-4-chloro-3-indolyl-phosphate (BCIP)*	1 383 221	3 ml (150 mg)
HNPP Fluorescent Detection Set*	1 758 888	1 set (5 mg HNPP, 100 mg Fast Red TR)
NBT (4-Nitroblue tetrazolium chloride)*	1 383 213	3 ml (300 mg)
NBT/BCIP Ready-to-Use Tablets*	1 697 471	20 tablets
NBT/BCIP Stock Solution*	1 681 451	8 ml
Fast Red Tablets*	1 496 549	20 tablets
Molecular Weight Markers, DIG-labeled	Cat. No.	Pack Size
DNA Molecular Weight Marker II, DIG-labeled	1 218 590	5 µg (500 µl)
DNA Molecular Weight Marker III, DIG-labeled	1 218 603	5 µg (500 µl)
DNA Molecular Weight Marker V, DIG-labeled	1 669 931	5 µg (500 µl)
DNA Molecular Weight Marker VI, DIG-labeled	1 218 611	5 µg (500 µl)
DNA Molecular Weight Marker VII, DIG-labeled	1 669 940	5 µg (500 µl)
DNA Molecular Weight Marker VIII, DIG-labeled	1 449 451	5 µg (500 µl)
RNA Molecular Weight Marker I, DIG-labeled	1 526 529	4 µg (200 µl)
RNA Molecular Weight Marker II, DIG-labeled	1 526 537	2 µg (200 µl)
RNA Molecular Weight Marker III, DIG-labeled	1 373 099	2 µg (200 µl)
Nucleic Acids and Probes, DIG-labeled	Cat. No.	Pack Size
Actin RNA Probe, DIG-labeled	1 498 045	2 µg
DIG-labeled Control DNA	1 585 738	50 µl
DIG-labeled Control RNA	1 585 746	50 µl



*Note: These products are recommended for *in situ* hybridization.

Ordering Information, continued

Additional Kits for Nonradioactive Analysis	Cat. No.	Pack Size
PCR ELISA, DIG Detection	1 636 111	192 detection reactions
DIG Gel Shift Kit, 2nd generation	3 353 591	1 kit
RNase Protection Kit	1 427 580	1 kit
Lumi-Light^{PLUS} Western Blotting Kit	2 015 218	1 kit
TeloTAGGG Telomere Length Assay	2 209 136	1 kit

Membranes and Films for Nonradioactive Analysis	Cat. No.	Pack Size
Nylon Membranes, positively charged	1 209 272	10 sheets (20 x 30 cm)
	1 209 299	20 sheets (10 x 15 cm)
	1 417 240	1 roll (0.3 x 3 m)
Nylon Membranes for Colony and Plaque Hybridization	1 699 075	50 discs (each 82 mm diameter)
	1 699 083	50 discs (each 132 mm diameter)
Lumi-Film Chemiluminescent Detection Film	1 666 916	100 films (7.1 x 9.4 inches ≈ 18 x 24 cm)
	1 666 657	100 films 8 x 10 inches ≈ 20.3 x 25.4 cm)
Hybridization Bags	1 666 649	50 bags

Additional Reagents for Nonradioactive Analysis	Cat. No.	Pack Size
DIG Wash and Block Buffer Set	1 585 762	1 set (30 blots)
DIG Easy Hyb	1 603 558	500 ml
DIG Easy Hyb Granules	1 796 895	Granules for 6 x 100 ml
Buffers in a Box, SSC, 20x	1 666 681	4 l
Blocking Reagent	1 096 176	50 g
DNA, MB-grade (fish sperm)*	1 467 140	500 mg (50 ml)
COT Human DNA	1 581 074	500 µg (500 µl)
tRNA, RNase negative*	109 541	100 mg
	109 550	500 mg
RNA, from yeast*	109 223	100 g
Hexanucleotide Mix	1 277 081	100 µl (50 reactions)
Fluorescent Antibody Enhancer Set for DIG Detection*	1 768 506	1 set (approx. 250 slides)
Digoxigenin-3-O-methylcarbonyl-ε-aminocaproic acid-N-hydroxy-succinimide ester	1 333 054	5 mg
DAB Substrate*	1 718 096	1 pack
SYBR Green I Nucleic Acid Gel Stain	1 988 131	0,5 ml

*Note: These products are recommended for *in situ* hybridization.

Trademarks:

TeloTAGGG is a trademark of a member of the Roche Group.

CDP-Star is a trademark of Tropix, Inc.

CSPD is a trademark of Tropix, Inc.

SYBR is a registered trademark of Molecular Probes, Inc.

For further information please visit our homepage:

<http://www.roche-applied-science.com/dig>



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