

DIG Product Selection Guide

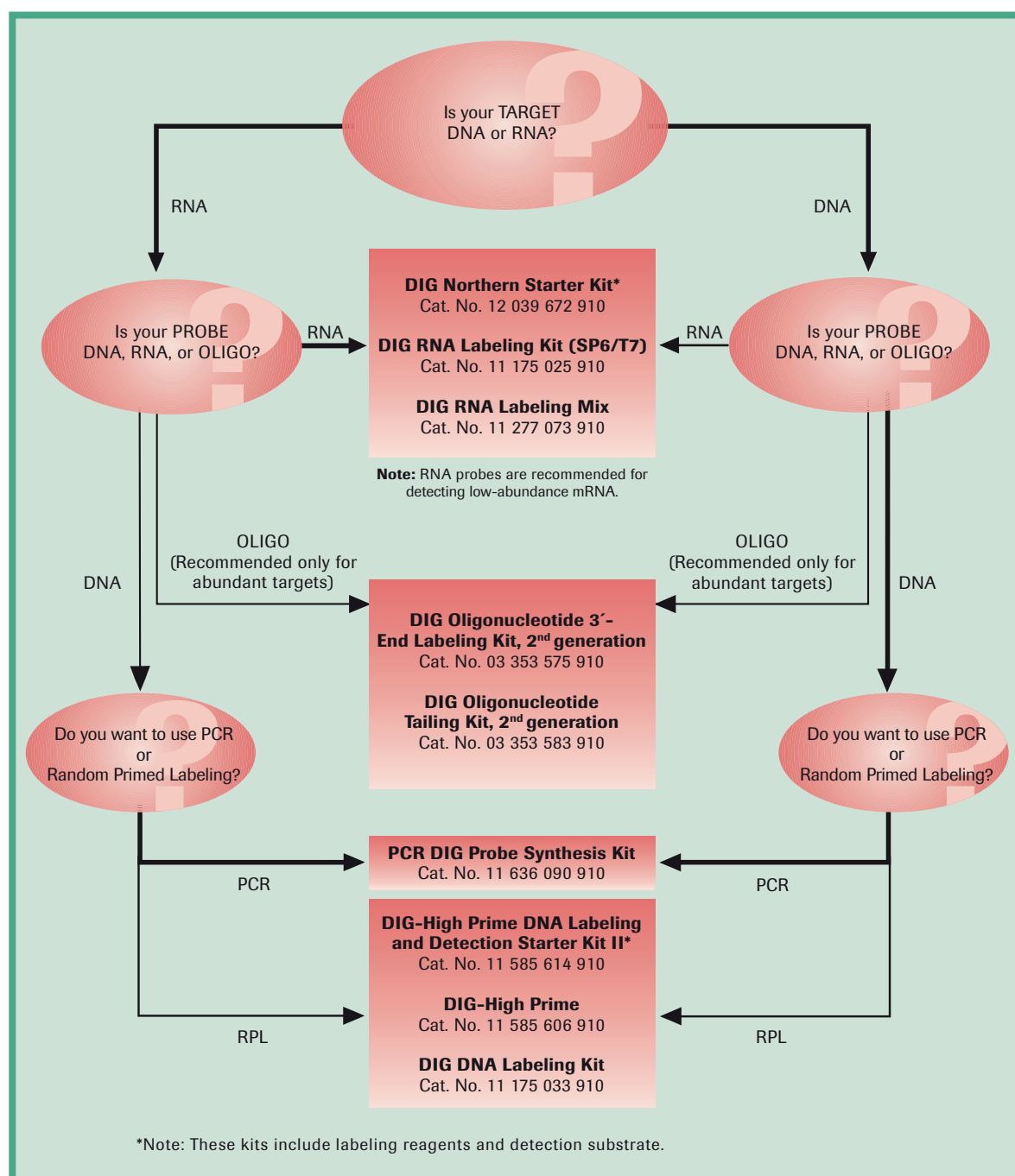
*The DIG System - Highly Sensitive.
Short Exposure Times. Safe Handling.*



Determine your labeling method.

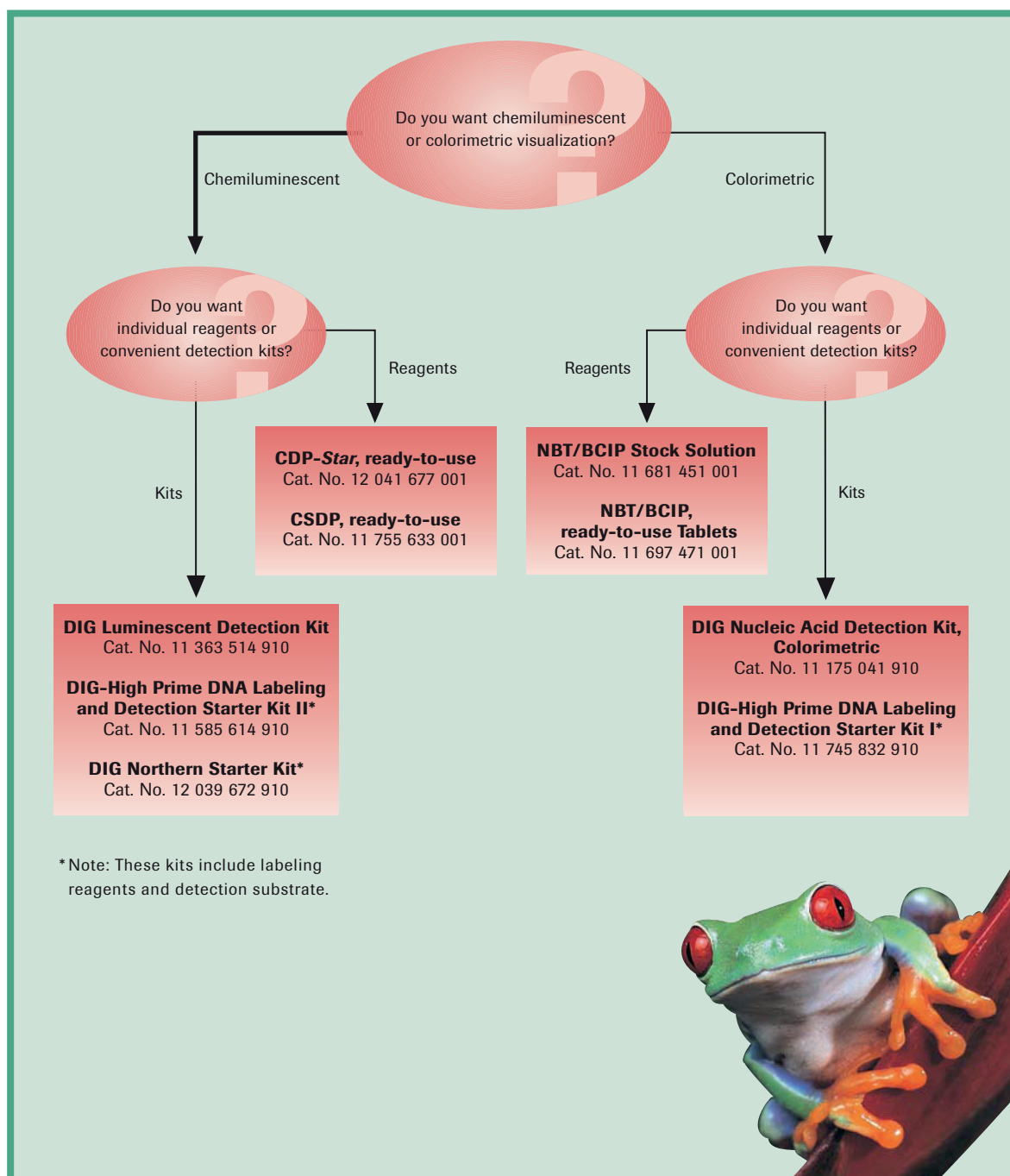
Step 1

(Heavier arrows indicate recommended pathways.)



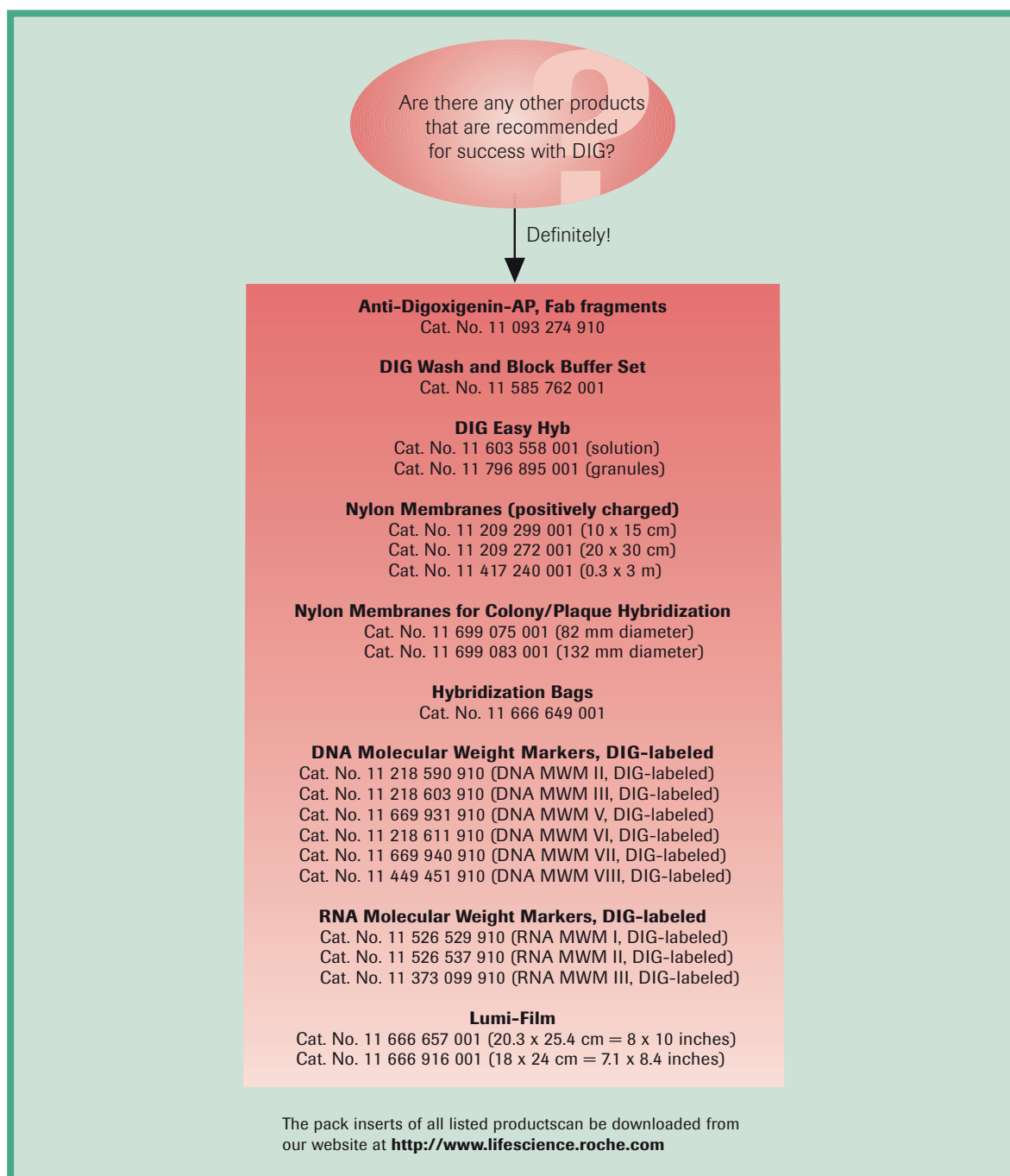
Determine your detection method.

Step 2



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

Step 3



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:

Nonradioactive *In Situ*
Hybridization Frequently
Asked Questions



Tools for Amplification



PCR Applications Manual
3rd edition



Lab FAQs
3rd edition
(in preparation)



Nucleic Acid Isolation
and Purification
Product Selection Guide



Restriction Enzymes
FAQs and Ordering Guide



Tools for Mapping and
Cloning



Ordering Information

Kits for Labeling and Detection	Cat. No.	Pack Size
DIG-High Prime DNA Labeling and Detection Starter Kit I	11 745 832 910	1 kit (12 labeling reactions and 24 detection reactions)
DIG-High Prime DNA Labeling and Detection Starter Kit II	11 585 614 910	1 kit (12 labeling reactions and 24 detection reactions)
DIG DNA Labeling and Detection Kit	11 093 657 910	1 kit (25 labeling reactions and 50 blots)
DIG Northern Starter Kit	12 039 672 910	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	11 636 090 910	1 kit (25 labeling reactions)
DIG DNA Labeling Kit	11 175 033 910	1 kit (40 labeling reactions)
DIG-High Prime	11 585 606 910	160 µl (40 labeling reactions)
DIG RNA Labeling Kit (SP6/T7)	11 175 025 910	1 kit (2 x 10 labeling reactions)
DIG Oligonucleotide 3'-End Labeling Kit, 2 nd generation	03 353 575 910	1 kit (25 labeling reactions)
DIG Oligonucleotide 5'-End Labeling Set	11 480 863 001	1 set (10 labeling reactions)
DIG Oligonucleotide Tailing Kit, 2 nd generation	03 353 583 910	1 kit (25 tailing reactions)
Mixes for Labeling	Cat. No.	Pack Size
DIG DNA Labeling Mix	11 277 065 910	50 µl (25 reactions)
DIG-High Prime	11 585 606 910	160 µl (40 reactions)
PCR DIG Labeling Mix**	11 585 550 910	2 x 250 µl (2 x 25 reactions)
PCR DIG Labeling Mix ^{PLUS} **	11 835 289 910	2 x 250 µl (2 x 50 reactions)
DIG RNA Labeling Mix	11 277 073 910	40 µl (20 reactions)
Biotin-High Prime	11 585 649 910	100 µl (25 reactions)
Biotin RNA Labeling Mix	11 685 597 910	40 µl (20 reactions)
Fluorescein-High Prime*	11 585 622 910	100 µl (25 reactions)
PCR Fluorescein Labeling Mix**	11 636 154 910	10 PCR reactions (100 µl each)
Fluorescein RNA Labeling Mix*	11 685 619 910	40 µl (20 reactions)
Nick Translation Mix*	11 745 808 910	200 µl
DIG-Nick Translation Mix*	11 745 816 910	160 µl
Biotin-Nick Translation Mix*	11 745 824 910	160 µl
Nucleotides for Labeling	Cat. No.	Pack Size
Digoxigenin-11-dUTP, alkali-labile	11 573 152 910	25 nmol (25 µl)
	11 573 179 910	125 nmol (125 µl)
	11 093 088 910	25 nmol (25 µl)
Digoxigenin-11-dUTP, alkali-stable	11 558 706 910	125 nmol (125 µl)
	11 570 013 910	5 x 125 nmol (5 x 125 µl)
	11 209 256 910	250 nmol (25 µl)
Digoxigenin-11-UTP	03 359 247 910	200 nmol (57 µl)
	11 363 905 910	25 nmol (25 µl)
Digoxigenin-11-ddUTP	11 363 905 910	25 nmol (25 µl)
Biotin-16-dUTP	11 093 070 910	50 nmol (50 µl)
Biotin-16-UTP	11 388 908 910	250 nmol (25 µl)
Biotin-16-ddUTP	11 427 598 910	25 nmol (25 µl)
Fluorescein-12-dUTP*	11 373 242 910	25 nmol (25 µl)
Fluorescein-12-UTP*	11 427 857 910	250 nmol (25 µl)
Tetramethyl-rhodamine-5-dUTP*	11 534 378 910	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	11 363 514 910	1 kit (50 blots)
DIG Nucleic Acid Detection Kit	11 175 041 910	1 kit (40 blots)
Anti-DIG Antibody for Detection on Membranes	Cat. No.	Pack Size
Anti-Digoxigenin-AP, Fab fragments	11 093 274 910	150 U (200 µl)
Anti-Digoxigenin-Fluorescein, Fab fragments*	11 207 741 910	200 µg
Anti-Digoxigenin-Rhodamine, Fab fragments*	11 207 750 910	200 µg
Anti-Digoxigenin-POD, Fab fragments	11 207 733 910	150 U
Chemiluminescent Substrates for Alkaline Phosphatase	Cat. No.	Pack Size
CDP-Star	11 685 627 001	1 ml
	11 759 051 001	2 x 1 ml
CDP-Star, ready-to-use	12 041 677 001	2 x 50 ml
CSPD	11 655 884 001	1 ml
	11 759 035 001	2 x 1 ml
	11 759 043 001	4 x 1 ml
CSPD, ready-to-use	11 755 633 001	2 x 50 ml
Chromogenic Substrates for Alkaline Phosphatase	Cat. No.	Pack Size
BM purple*	11 442 074 001	100 ml
5-Bromo-4-chloro-3-indolyl-phosphate (BCIP)*	11 383 221 001	3 ml (150 mg)
HNPP Fluorescent Detection Set*	11 758 888 001	1 set (5 mg HNPP, 100 mg Fast Red TR)
NBT (4-Nitroblue tetrazolium chloride)*	11 383 213 001	3 ml (300 mg)
NBT/BCIP Ready-to-Use Tablets*	11 697 471 001	20 tablets
NBT/BCIP Stock Solution*	11 681 451 001	8 ml
Fast Red Tablets*	11 496 549 001	20 tablets
Molecular Weight Markers, DIG-labeled	Cat. No.	Pack Size
DNA Molecular Weight Marker II, DIG-labeled	11 218 590 910	5 µg (500 µl)
DNA Molecular Weight Marker III, DIG-labeled	11 218 603 910	5 µg (500 µl)
DNA Molecular Weight Marker VI, DIG-labeled	11 218 611 910	5 µg (500 µl)
DNA Molecular Weight Marker VII, DIG-labeled	11 669 940 910	5 µg (500 µl)
DNA Molecular Weight Marker VIII, DIG-labeled	11 449 451 910	5 µg (500 µl)
RNA Molecular Weight Marker I, DIG-labeled	11 526 529 910	4 µg (200 µl)
RNA Molecular Weight Marker II, DIG-labeled	11 526 537 910	2 µg (200 µl)
RNA Molecular Weight Marker III, DIG-labeled	11 373 099 910	2 µg (200 µl)
Nucleic Acids and Probes, DIG-labeled	Cat. No.	Pack Size
Actin RNA Probe, DIG-labeled	11 498 045 910	2 µg
DIG-labeled Control DNA	11 585 738 910	50 µl
DIG-labeled Control RNA	11 585 746 910	50 µl
Additional Kits for Nonradioactive Analysis	Cat. No.	Pack Size
PCR ELISA, DIG Detection	11 636 111 910	192 detection reactions
DIG Gel Shift Kit, 2 nd generation	03 353 591 910	1 kit
RNase Protection Kit	11 427 580 910	1 kit
Lumi-Light ^{PLUS} Western Blotting Kit	12 015 218 001	1 kit
TeloTAGGG Telomere Length Assay	12 209 136 001	1 kit

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

Ordering
Information



www.lifescience.roche.com

Ordering Information, continued

Membranes and Films for Nonradioactive Analysis	Cat. No.	Pack Size
Nylon Membranes, positively charged	11 209 272 001	10 sheets (20 x 30 cm)
	11 209 299 001	20 sheets (10 x 15 cm)
	11 417 240 001	1 roll (0.3 x 3 m)
Nylon Membranes for Colony and Plaque Hybridization	11 699 075 001	50 discs (each 82 mm diameter)
	11 699 083 001	50 discs (each 132 mm diameter)
Lumi-Film Chemiluminescent Detection Film	11 666 916 001	100 films (7.1 x 9.4 inches ≈ 18 x 24 cm)
	11 666 657 001	100 films (8 x 10 inches ≈ 20.3 x 25.4 cm)
Hybridization Bags	11 666 649 001	50 bags
Additional Reagents for Nonradioactive Analysis	Cat. No.	Pack Size
DIG Wash and Block Buffer Set	11 585 762 001	1 set (30 blots)
DIG Easy Hyb	11 603 558 001	500 ml
DIG Easy Hyb Granules	11 796 895 001	Granules for 6 x 100 ml
Buffers in a Box, SSC, 20x	11 666 681 001	4 l
Blocking Reagent	11 096 176 001	50 g
DNA, MB-grade (fish sperm)*	11 467 140 001	500 mg (50 ml)
COT Human DNA	11 581 074 001	500 µg (500 µl)
tRNA, RNase negative*	10 109 541 001	100 mg
	10 109 550 001	500 mg
RNA, from yeast*	10 109 223 001	100 g
Hexanucleotide Mix	11 277 081 001	100 µl (50 reactions)
Fluorescent Antibody Enhancer Set for DIG Detection*	11 768 506 910	1 set (approx. 250 slides)
Digoxigenin-3-O-methylcarbonyl-ε-aminocaproic acid-N-hydroxy-succinimide ester	11 333 054 001	5 mg
DAB Substrate*	11 718 096 001	1 pack
SYBR Green I Nucleic Acid Gel Stain	11 988 131 001	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.



Diagnostics

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