

Optimised Application Oligos

All our application oligos are optimised and scientifically proven to show highly consistent results in respective application

Online synthesis reports, data sheets and quality reports are free of charge

Delivery: lyophilised or normalised to selected concentration or quantity

A ready-to-use qPCR probe dilution buffer (10 mM Tris-HCl, pH 8.0, 1 mM EDTA) is provided along with all lyophilised qPCR Probes

PCR / qPCR Primer

Sequence Length [mer]	15 - 35
Avg. Yield [OD / nmol] ¹	5 / 25
Price per Primer [£]	6.95

qPCR Probes

Sequence Length [mer]	5 - 40			
MGB Probes				
Delivered Quantity [nmol]	5	20	40	
5' Dye- 3' MGB-Eclipse	Price per Probe [£] incl. HPLC Purification			
[FAM] - [MGBEQ]	189.20	292.40	425.70	
[HEX] - [MGBEQ]	245.10	339.70	473.00	
[Cy5] - [MGBEQ]	245.10	339.70	473.00	
[YAKYE] - [MGBEQ]	245.10	339.70	473.00	
Dual Labeled Probes				
Synthesis Scale [µmol] ²	0.01	0.05	0.20	1.00
Min. / Avg. Yield [OD] ⁸	1 / 3	1.5 / 5	3 / 8	6 / 15
5' 3' Combinations	Price per Probe [£] incl. HPLC Purification			
5': [FAM], [HEX], [TET], [JOE], [CY3], [CY5], [ROX], [TAM], [TxRed] 3': [TAM], [BHQ1], [TQ2], [BHQ2], [TQ3], [BBQ650]	90.00	122.50	175.00	322.00
5': [YAKYE], [ATTO647N] 3': [Eclip], [BHQ1], [TQ2], [BHQ2], [BBQ650]	179.74	219.30	283.80	464.40
Molecular Beacons				
Synthesis Scale [µmol] ²	0.01	0.05	0.20	1.00
Min. / Avg. Yield [OD] ⁸	1 / 3	1.5 / 5	3 / 8	6 / 15
5' 3' Combinations	Price per Probe [£] incl. HPLC Purification			
5': [FAM], [HEX], [TET], [JOE], [CY3], [CY5], [ROX], [TAM], [TxRed] 3': [DAB], [Eclip], [TAM], [BHQ1], [BHQ2], [BBQ650]	110.94	150.50	215.00	395.60
LightCycler Probes				
Delivered Quantity [nmol]	1	3	5	10
Acceptor Probe	Price per Probe [£] incl. HPLC Purification			
5': [LC610], [LC640], [CY5], [CY55], [ROX], [TxRed] 3': [PHO], [SpC3]	136.50	171.50	241.50	343.00
Donor Probe	Price per Probe [£] incl. HPLC Purification			
3': [FLU]	52.50	66.50	80.50	175.00

SeqPrimer

Sequence Length [mer]	15 - 35
Avg. Yield [OD / nmol] ¹	5 / 25
Price per Primer in Tubes [£]	6.95
Price per Primer in Plates [£]	3.95

Cloning Oligo

Type of Cloning Oligo	Short	Long
Sequence Length [mer]	15 - 35	36 - 60
Avg. Yield [OD]	10	15
Price per Oligo [£]	15.50	32.00
Phosphate [PHO] [£]	10.75	12.90

NGSgrade Oligos

Synthesis Scale [µmol] ²	0.01	0.05	0.20	1.00
Min. Yield [OD] ⁸	1	2	4	10
Sequence Length [mer]	5 - 50	5 - 120	5 - 120	5 - 120
Price / HPLC purified base [£]	0.69	0.76	1.11	2.23

EXTREmer Oligo

Sequence Length [mer]	60 - 200
Delivered Quantity [nmol]	4
Price / Base [£]	0.47

Custom DNA Oligos

Custom DNA Oligos are available in tubes and 96well plate format

Possible sequence lengths: Unmodified oligos from 5 to 120 bases; modified oligos from 5 to 80 bases (0.01 µmol scale 5 to 50 bases)

Wobbles (degenerated bases) with defined and non-defined ratios available

Quality control by OD measurement, MALDI-TOF MS or Capillary Gel Electrophoresis (CGE)

Delivery: lyophilised in tubes or normalised to a to a selected concentration in tubes and plates

DNA Bases

Synthesis Scale [µmol] ²		0.01	0.05	0.20	1.00	10.00
Salt Free Oligos	Price per Base [£]	0.25	0.35	0.55	1.70	12.90
HPSF purified Min. Purity > 70%	Price per Base [£]	0.30	0.40	0.60	1.75	14.00
HPLC purified Min. Purity > 80%	Price per Base [£]	0.69	0.76	1.11	2.23	22.33
PAGE purified Min. Purity > 85%	Price per Base [£]	xx	1.10	1.55	xx	xx

Phosphorothioate (PTO)

Synthesis Scale [µmol] ²		0.01	0.05	0.20	1.00	10.00
Price per PTO bound [£]		1.05	1.33	1.89	3.01	5.25

DNA Modifications

Purification Option	Synthesis Scale [µmol] ²	0.01	0.05	0.20	1.00
HPSF	Min.Yield [OD] ⁸	2	3	5	10
HPLC	Min.Yield [OD] ⁸	1	2	3	6
PAGE	Min.Yield [OD]	xx	0.5	0.5	xx

Spacer, Base & Sugar Modifications

Modifications	HPSF	HPLC	PAGE	5'	3'	Int	Price [£] per Modification			
2'-Deoxyinosine [I]	x	x	x		x	x	5.59	6.79	7.74	8.60
2'-Deoxyuridine [U]	x	x	x		x	x	5.59	6.79	7.74	8.60
2',3'-dideoxyC [23ddC]	x	x	x		x		42.00	56.00	84.00	115.50
5-Methyl-dC [5MedC]	x	x	x		x	x	14.00	21.00	25.90	48.30
Amino-C6-dT [AmC6dT]	x	x	x			x	51.10	65.10	79.10	114.10
Biotin-dT [BIODt]	x	x	x			x	65.10	79.10	93.10	159.10
dSpacer [Spd]	x	x	x			x	56.00	60.20	82.60	112.70
Spacer C3 [SpC3]	x	x	x	x	x	x	24.50	29.40	33.60	67.20
Spacer C18 [SpC18]	x	x	x	x		x	24.50	29.40	33.60	67.20
Wobble (defined ratio)	x	x	x			x	17.50	17.50	17.50	17.50

Non Fluorescent Modifications

Modifications	HPSF	HPLC	PAGE	5'	3 ³	Int ⁴	Price [£] per Modification			
Amino-C6 [AmC6]	x	x	x	x			9.03	8.75	10.50	14.00
Amino-C12 [AmC12]	x	x	x	x			27.30	30.10	34.30	56.00
Amino [AmC3], [AmC6], [AmC7]	x	x	x		x		10.32	12.47	14.62	18.92
Biotin [BIO]	x	x	x		x		31.50	34.30	45.50	81.70
Biotin [BIO]	x	x	x	x			20.64	24.94	26.60	81.70
Biotin-TEG [BIOTEG]	x	x	x	x	x	x	34.40	38.50	44.10	81.70
Cholesterol [CHOL]		x			x		34.00	38.25	55.25	72.25
Digoxigenin [DIG]		x		x	x	x	33.60	44.10	58.10	101.50
Phosphate [PHO]	x	x	x	x	x		10.75	12.90	15.05	21.00
Thiol Modifier C3 [ThiolC3]		x			x		24.50	32.90	38.50	54.60
Thiol Modifier C6 [ThiolC6]		x		x			32.20	40.60	44.80	76.54
TINA [TINA]		x		x			33.15	38.25	46.75	80.75

Dark Quencher

Quencher	HPSF	HPLC	PAGE	5'	3 ³	Int ⁴	Price [£] per Modification			
BHQ1 [BHQ1], BHQ2 [BHQ2]		x			x		85.14	98.04	110.94	133.00
BHQ1-dT [BHQ1dT]		x				x	112.00	122.50	133.00	161.00
BBQ 650 [BBQ650]		x			x		85.14	98.04	110.94	163.40
Dabcyl [DAB]		x			x		42.14	50.74	63.64	98.00
Dabcyl-dT [DABdT]		x				x	60.20	68.80	81.70	137.60
Eclipse [Eclip]		x			x		85.14	98.04	110.94	133.00

Fluorescent Dyes							
Modifications	HPSF	HPLC	PAGE	5'	3 rd	Int ⁴	Price [£] per Modification
Alexa Fluor 350 [Alexa350]	x			x	x	x	171.14 202.10 219.30 518.58
Alexa Fluor 488 [Alexa488]	x			x	x	x	171.14 202.10 219.30 518.58
Alexa Fluor 555 [Alexa555]	x			x	x	x	171.14 202.10 219.30 518.58
Alexa Fluor 647 [Alexa647]	x			x	x	x	171.14 202.10 219.30 518.58
ATTO 425 [ATTO425]	x			x	x	x	37.10 41.30 56.00 73.50
ATTO 465 [ATTO465]	x			x	x	x	37.10 41.30 56.00 73.50
ATTO 520 [ATTO520]	x			x	x	x	37.10 41.30 56.00 73.50
ATTO 565 [ATTO565]	x			x	x	x	37.10 41.30 56.00 73.50
ATTO 610 [ATTO610]	x			x	x	x	37.10 41.30 56.00 73.50
ATTO 488 [ATTO488]	x			x	x	x	58.80 63.00 84.00 101.50
ATTO 550 [ATTO550]	x			x	x	x	58.80 63.00 84.00 101.50
ATTO 594 [ATTO594]	x			x	x	x	58.80 63.00 84.00 101.50
ATTO RHO12 [ATTORHO12]	x			x	x	x	58.80 63.00 84.00 101.50
ATTO 532 [ATTO532]	x			x	x	x	58.80 63.00 84.00 101.50
ATTO 633 [ATTO633]	x			x	x	x	69.30 73.50 94.50 112.00
ATTO 647N [ATTO647N]	x			x	x	x	69.30 73.50 94.50 112.00
ATTO 655 [ATTO655]	x			x	x	x	69.30 73.50 94.50 112.00
ATTO 680 [ATTO680]	x			x	x	x	69.30 73.50 94.50 112.00
ATTO 700 [ATTO700]	x			x	x	x	69.30 73.50 94.50 112.00
ATTO 740 [ATTO740]	x			x	x	x	69.30 73.50 94.50 112.00
Bodipy FL [BOFL]	x			x	x	x	58.48 71.38 79.98 121.10
Bodipy 530/550 [BO530]	x			x	x	x	58.48 71.38 79.98 121.10
Bodipy TMR-X [BOTMRX]	x			x	x	x	58.48 71.38 79.98 121.10
Bodipy 630/650 [BO630]	x			x	x	x	58.48 71.38 79.98 121.10
Bodipy 650/665 [BO650]	x			x	x	x	58.48 71.38 79.98 121.10
Cyanine3 [CY3]	x			x	x	x	24.50 35.00 45.50 81.70
Cyanine5 [CY5]	x			x	x	x	24.50 35.00 45.50 81.70
Cyanine3.5 [CY35]	x			x			58.48 71.38 79.98 148.78
Cyanine5.5 [CY55]	x			x			58.48 71.38 79.98 148.78
DY-415 [DY415]	x			x	x	x	51.10 55.30 76.30 126.00
DY-649 [DY649]	x			x	x	x	51.10 55.30 76.30 126.00
DY-610 [DY610]	x			x	x	x	51.10 55.30 76.30 126.00
DY-480 XL [DY480]	x			x	x	x	51.10 55.30 76.30 126.00
DY-682 [DY682]	x			x	x	x	27.30 30.80 41.30 126.00
DY-782 [DY782]	x			x	x	x	27.30 30.80 41.30 126.00
FAM [FAM]	x	x	x	x			22.40 36.12 44.72 81.70
Fluorescein [FLU]	x				x		30.10 38.70 47.30 81.70
Fluorescein isothiocyanate [FITC]	x			x	x	x	30.10 38.70 47.30 81.70
Fluorescein-dT [FLUdT]	x					x	81.70 90.30 107.50 129.00
HEX [HEX]	x	x	x	x			30.10 38.70 47.30 81.70
JOE [JOE]	x			x	x	x	32.20 42.00 49.00 94.60
LightCycler 610 [LC610]	x			x	x	x	105.00 140.00 203.00 266.00
LightCycler 640 [LC640]	x			x	x	x	105.00 140.00 203.00 266.00
Oregon Green 488 [OG488]	x			x	x	x	54.18 62.78 71.38 148.78
Oregon Green 514 [OG514]	x			x	x	x	54.18 62.78 71.38 148.78
Rhodamin Green [RGR]	x			x	x	x	64.50 77.40 103.20 163.40
Rhodamine Red [RRE]	x			x	x	x	64.50 77.40 103.20 163.40
ROX [ROX]	x			x	x	x	32.20 42.00 49.00 94.60
TAMRA [TAM]	x			x	x		27.30 31.50 42.00 85.14
TAMRA-dT [TAMdT]	x					x	66.50 73.50 87.50 105.00
TET [TET]	x	x	x	x			30.10 38.70 47.30 81.70
Texas Red [TxRed]	x			x	x	x	49.88 62.78 75.68 121.10
Yakima Yellow [YAKYE]	x			x			101.48 144.48 176.30 365.50

For spacers, linkers and other modifications not listed here, please contact our customer support at +49 8092 8289-77

Custom RNA Oligos

Single stranded RNA, O-Methyl-RNA / Chimerics and siMAX siRNA

Sequence lengths from 6 - 80 bases; siRNA from 17 - 27 bases

Quality control by OD measurement and MALDI-TOF MS

QC Report with traces are provided in printed format on request

siMAX siRNA is delivered annealed with a 5x universal solution buffer

Delivery format: lyophilised in tubes

RNA Bases

Purification Option	Purity ^{6/1}	Synthesis Scale [μmol] ²	0.05	0.20	1.00
Desalted	n.a.	Min.Yield [OD] ⁸	1.5	2	5
		Price per Base [£]	3.85	5.60	8.40
HPLC	$\geq 85\%$	Min.Yield [OD] ⁸	0.5	2	2.5
		Price per Base [£]	4.83	7.00	10.50

siMAX siRNA

Purification Option	Quantity [nmol]	20 nmol	40 nmol
Desalted	Price per siRNA [£]	66.50	133.00
HPLC (purity > 85%)	Price per siRNA [£]	136.50	199.50

siRNA Modifications

Purification: HPLC	Quantity [nmol]		20 nmol	40 nmol
Modifications ⁷	5'	3'	Price [£] per Modification	
Amino-C6 [AmC6]	x		25.80	34.40
Amino-C7 [AmC7]		x	34.40	43.00
Biotin [BIO]	x		51.60	120.40
Biotin-TEG [BIOTEG]	x	x	77.40	120.40
Cyanine5 [CY5]	x		84.28	124.70
FAM [FAM]	x		68.80	124.70
HEX [HEX]	x		68.80	124.70
Phosphate [PHO]	x	x	24.50	31.50
TET [TET]	x		68.80	124.70

O-Methyl-RNA / Chimerics

Synthesis Scale [μmol] ²	0.05	0.20	1.00
Min.Yield [OD] ⁸	0.5	2	2.5
Sequence Length [mer]	6 - 80	6 - 80	6 - 80
Price [£] incl. HPLC purification			
DNA base	0.76	1.11	2.23
RNA base	3.85	5.60	8.40
PTO bound	1.33	1.89	3.01
2'-O-Methyl-A [2OMeA]	4.20	5.60	8.40
2'-O-Methyl-C [2OMeC]	4.20	5.60	8.40
2'-O-Methyl-G [2OMeG]	4.20	5.60	8.40
2'-O-Methyl-U [2OMeU]	4.20	5.60	8.40
Wobble (defined ratio)	21.00	21.00	21.00

The siRNA product is covered by patents US 6,506,559, continuations and foreign counterparts thereof and sold under license to MWG BIOTECH AG by the CARNEGIE INSTITUTION OF WASHINGTON, 1530 P Street, N.W., Washington, D.C. 20005-1910. The use of double stranded RNA material may require a separate license from the Carnegie Institution of Washington. In addition, this product is licensed under European Patents 1144623, 1214945 and foreign equivalents from Alnylam Pharmaceuticals, Inc., Cambridge, USA and is provided only for use in academic and commercial research (excluding the evaluation or characterization of this product as the potential basis for a siRNA-based drug) and not for any other commercial purposes. Information about licenses for commercial use (including discovery and development of siRNA-based drugs) is available from Alnylam Pharmaceuticals, Inc., 300 Third Street, Cambridge, MA 02142, USA.

RNA Modifications

Purification Option	Purity ^{6/1}	Synthesis Scale [μmol] ²		0.05	0.20	1.00
HPLC	$\geq 80\%$	Min.Yield [OD] ⁸		1	3	6
Modifications ⁷	5'	3'	Int.	Price [£] per Modification		
2'-Deoxyinosine [I]	x	x	x	9.89	11.61	12.90
2'-Deoxyuridine [U]	x	x	x	9.89	11.61	12.90
5-Methyl-dC [5MedC]	x	x	x	38.70	47.30	90.30
Amino-C6-dT [AmC6dT]			x	111.80	137.60	206.40
Biotin-dT [BIODT]			x	137.60	163.40	232.20
dSpacer [Spd]			x	107.50	146.20	206.40
Spacer C3 [SpC3]		x	x	51.60	60.20	120.40
2',3'-dideoxyC [23ddC]		x		81.70	133.30	189.20
Amino-C6 [AmC6]	x			17.20	25.80	34.40
Amino-C3 [AmC3]		x		25.80	34.40	43.00
Amino-C7 [AmC7]		x		25.80	34.40	43.00
Biotin [BIO]	x			38.70	51.60	120.40
Biotin-TEG [BIOTEG]	x	x		68.80	77.40	120.40
Cholesterol [CHOL]		x		42.50	59.50	76.50
Phosphate [PHO]	x	x		21.50	24.50	31.50
BHQ1 [BHQ1]		x		145.34	171.14	245.10
BHQ2 [BHQ2]		x		145.34	171.14	245.10
Cyanine3 [CY3]	x			68.80	84.28	124.70
Cyanine5 [CY5]	x			68.80	84.28	124.70
Dabcyl [DAB]		x		76.54	98.90	180.60
Dabcyl-dT [DABdT]			x	103.20	124.70	206.40
FAM [FAM]	x			55.90	68.80	124.70
Fluorescein-dT [FLUdT]			x	129.00	154.80	193.50
HEX [HEX]	x			55.90	68.80	124.70
TAMRA [TAM]		x		55.90	68.80	124.70
TET [TET]	x			55.90	68.80	124.70

For other modifications, synthesis scales and yields not listed here, please contact our customer support at +49 8092 8289-77

Additional Services

Description	Price [£]
Online QC Report with MALDI TOF MS or CGE spectra	2.45 / oligo
Printing of Quality Report	1.40 / order
Certificate of Analysis (CoA)	17.15 / order
Extra tube labels	0.18 / label
Conc. Adjustment in Tubes	0.35 / oligo
Aliquoting in Tubes	0.70 / aliquot
Mixing/Pooling of Tubes	0.70 / oligo
Remains sent in Tubes	0.35 / oligo
Conc. Adjustment in Plates	13.30 / plate
Plate Copies (Aliquoting)	6.30 / plate
Mixing/Pooling in Plates	10.50 / plate
Remains sent in Plates	3.50 / plate

DNA Origami - Scaffold DNA			
Description	Volume	Concentration (reactions)	Price [£]
Scaffold DNA p7249	0,5 ml	100 nM (25 reactions)	78.40
Scaffold DNA p7249	2,0 ml	100 nM (100 reactions)	156.80
Scaffold DNA p7249	2,0 ml	400 nM (400 reactions)	444.50
Scaffold DNA p7560	0,5 ml	100 nM (25 reactions)	81.90
Scaffold DNA p7560	2,0 ml	100 nM (100 reactions)	163.80
Scaffold DNA p7560	2,0 ml	400 nM (400 reactions)	463.40
Scaffold DNA p8064	0,5 ml	100 nM (25 reactions)	87.50
Scaffold DNA p8064	2,0 ml	100 nM (100 reactions)	174.30
Scaffold DNA p8064	2,0 ml	400 nM (400 reactions)	494.20
6x Gel Loading Dye	2,0 ml	6x	27.30
10x Folding Buffer	2,0 ml	10x	14.00
Scaffolding Kits The scaffolding kits contain all materials (except oligonucleotides) for preparing DNA Origami self-assembly reactions: <ul style="list-style-type: none"> • 500 µl 100 nM Scaffold ssDNA • 500 µl tilibit 10x folding buffer XM • 500 µl 200 mM MgCL2 stock solution • 600 µl 6x gel loading dye 			
Description		Reactions	Price [£]
Folding Kit basic - p7249		25 reactions	95.90
Folding Kit basic - p7560		25 reactions	98.70
Folding Kit basic - p8064		25 reactions	104.30

For GMP Oligos or Large Scale Synthesis, please contact our customer support or use the request form at eurofinsgenomics.com

¹ Typical yield and purity applies to a 20mer; Calculation: 1 OD = 5 nmol = 30 µg; may vary for individual dyes, sequences with GC content > 70%, > 3 purine stretches, or strong secondary structures.

² The synthesis scale indicates the initial amount of 3' bases.

³ Length restriction for some 3' modified oligos is 5 - 50 bases; please inquire.

⁴ For some internal modifications where an additional Amino-C6-dT linker is used, additional 34.00 GBP are charged.

⁶ Purity is based on CGE analysis.

⁷ Modified RNA, siRNA, O-Methyl-RNA and Chimerics requires HPLC purification;

⁸ There is no OD guarantee for oligos < 18 and > 35 bases or for oligos with more than one modification (except qPCR Probes)

⁹ One 96well plate must contain at least 20 oligos

Prices exclude VAT and shipping costs (please inquire) and are subject to change without prior notice. Status **25.06.2018**

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 Customer Support: support-eu@eurofins.com; +49-8092-8289-77; Complete list of toll free numbers at eurofinsgenomics.com.