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Before you start

What is covered?

The following notes illustrate how orders for complex oligos, including **dual** probe, SiRNA and RNA oligos, multiple **complex** Oligos, well plates and peptides can be placed via the Marketplace within iProcurement.

There is an **Order Oligo** link on the Marketplace home page within the iProcurement module. From here all the functionality of the Merck Life Sciences UK website is available to configure oligos, before returning the items to the Marketplace and then into iProcurement. This process will mean that all oligo orders sent to Merck Life Sciences UK via the marketplace can now be e-invoiced in the same way as catalogue orders.

This is basically a five-step process.



If you haven't ordered from Merck Life Sciences UK previously

If you have not ordered from Merck Life Sciences UK previously, you may receive an order rejection message the first time you place a marketplace order or use a new departmental location. The order is not actually rejected, but on hold on the Merck Life Sciences UK system whilst they complete their setup. You will receive a confirmation email when the order has been processed.

If you do not receive a confirmation message after one day, then please telephone the purchasing helpdesk on Ext **65101** and this can be followed up with Merck Life Sciences UK. Do not fax the order to the supplier until it has been investigated.

Alerts to ignore

Oligo orders are marked as 'off-catalogue' within the marketplace. This generates an automatic alert to users as non-catalogue lines can include pricing discrepancies, discontinued catalogue items etc and this gives early warning of a potential problem. It is anticipated that the marketplace will at some point refine their system to prevent its generation but in the interim users should ignore these messages in relation to oligo orders.

Raising standard oligos

The oligo module enables you to enter details of standard oligos you wish to purchase, compare prices from multiple suppliers and place orders via iProcurement.

Accessing the oligo module

Navigate to:

- o iProcurement responsibility
- University of Cambridge Marketplace Link
- 1. Once you click on the Marketplace link the following screen will display.



2. Click on **Order Oligo** from the home page.



Q Search product				Search	Saved Baskets Favourite Products
Oligos			· · · · · ·	v	
1. Oligo List		2. Pricing		3. Finalise	
					2. Pricing >
		In this step, you can compile a l Ple	list of oligos that you would like to view p ase select from one of the options bel	oricing information for in step 2.	
			Create External Merck Life Sciences UK Oligo		
		Create new oligo	L Upload from csv file	Select a previously ordered oligo	
Peter Researcher name: Minimum scale:	MAFFIN, Miss Helen 1.0 nmole		Purification: 5 modification: 3 modification:	PAGE Alexa Fluor 532 None	Edit Delete Copy
			5' - HBN GGC T - 3'		
					2. Pricing>

3. The screen below will display.

There are 4 options for ordering oligos via the marketplace:

- Create an external Merck Life Sciences UK oligo: This links directly to their website (Page 6)
- Create a new oligo (Page 7)
- Upload from CSV file (Page 8)
- Select a previously ordered oligo: click on the link to display a list of previously raised oligos, Select > Add selected to oligo list and then complete the process for Pricing (P10) and checking out.

To create an internal New Oligo

From the screen seen on page 5, click + **Create new oligo**. You will see the following:

Oligo					
1. Oligo Sequence	2. Purification	3. 5 Modification	4. 3 Modification	5. Finalise & Save	
					Next >

4. Complete the *Oligo Sequence* field by entering the *relevant base codes*.

This can be done either by:

- typing your sequence directly into the oligo sequence field; or
- by clicking on the base codes from the table below.

It is not case sensitive and there is no need for spaces between the codes.

Click Next

5. **Purification** options display. Select the relevant row and then click **Next** to display **5 Modification** options

Oligo Sequence				
	2. Purification	3.5 Modification	4.3 Modification	5. Finalise & Save
				Next
I. Oligo Sequence				
Base Codes (Click to add)				
Date.		Code	Date .	Code
Deoxyadenine		A	Deaxycytasine	c
Deoxyguaridine		G	Thymidine	Ţ
Deoxyuraci		U	Deoxyinosine	
A+C+G		v	A+C+G+T	N
A+T+G		D	T+C+G	Ð
A+T+C		н	A+T	w
C+G		s	T+G	к
A+C		м	C+T	Y
A+G		R		

uri	ification		
Click	k a row to select it		
	Purification	Available from Merck Life Science UK Limited	Available from Thermo Fisher Scientific (Life Technologies)
0	Desalted	\checkmark	~
	PAGE	~	~
			(for length 7 to 100)
	HPLC	~	~
			(for length 7 to 60)
	Cartridge (RP)	~	~
			(for length 7 to 60)
	RP1	~	~

6. **5 Modification** options display. Select the relevant row and then click **Next** to display the **3 modifications** screen

1.20				
. Oligo	Sequence	2. Purification 3. 5 Modificat	tion 4, 3 Modification	5. Finalise & Save
: Previou	JS			Ne
5 m	odification			
Click	a row to select it			
	5 modification	Available from Merck Life Science UK Limited	Available from Thermo Fisher Sci	entific (Life Technologies)
0	None	\checkmark	~	
	Alexa Fluor 430	~	~	
	Alexa Fluor 488	~	~	
	Alexa Fluor 532	\checkmark	~	
	Alexa Fluor 546	\checkmark	~	
	Alexa Fluor 555	\checkmark	~	
	Alexa Fluor 594	~	 	
	Alexa Fluor 647	\checkmark	~	
	Alexa Fluor 750	\checkmark	\checkmark	
	Amine	\checkmark	~	
	Amino C12	1		
	Annue C12			

7. **3 modification** options display. Select the relevant row and then click **Next** to display the **Finalise and save** screen.

Oligo					2
1. Oligo Seq	uence	2. Purification	3. 5 Modification	4, 3 Modification	5. Finalise & Save
< Previous					Next >
3 mod	ification				
Click a ro	ow to select it				
3 1	modification	Available from Merck Life	Science UK Limited	Available from Thermo Fisher So	cientific (Life Technologies)
0	None	~		~	
< Previous					Next >

8. Enter an *Oligo name* and the *researcher name* if this is not you. Indicate the **Minimum scale** required.

ligo name				
esearcher name	BAILEY, Mrs Helen	Minimum scale	Oµmoles	nmoles

9. Review and **Save** the oligo, which is now ready for pricing (Page 10)

Raising oligo requisitions via CSV file upload

From the screen seen on page 5, click + **Upload from csv file**. You will see the following:

a) Click where it says 'here' to download and save the the spreadsheet template before you start the process.



b) A save dialogue will open. Save the spreadsheet to your computer.

c) The spreadsheet contains a space for you to enter your oligos and also some guidance notes.

NB: The notes must be deleted Before the file can be uploaded.

A	A	В	C	D	E	F
1	Researcher Name	Oligo name	Minimum scale	Scale units	Oligo sequence (5' to 3')	Purification
2						
3						
4						
5						
6						
7						
8	**Delete these examples before saving**					
9	Mr Example	Forward 100 1	200	nano	[Rhodamine]ACGTACGTGCTACGT	Desalted
10	Mr Example	Forward 100 2	10	micro	AGCTGTAACCGGTT[Fluorescein]	HPLC
11	Mr Example	Forward 100 3	25	nano	AGTTCCGGGCCAAA	Reverse Phase HPLC (RP-HPLC)
12	Mr Example	Forward 100 4	50	micro	TGOOGATATAAOONA	PAGE
13						
14						
15	**Delete the lines below before saving**					
16						
17	****Please note that different modifications and p	urification methods are ava	ilable from different sup	pliers.****		
18	****Please see the detailed screens presented by	selecting the 'Create New C	ligo' button to view exac	tlγ which co	mbinations are currently available	from each of your suppliers.***
19						
20	Available 5' mods	Available 3' mods:	Available Purifications:		Base codes:	
21					Base	Code
	2'-O-Methyl RNA A	2'-O-Methyl RNA A	COP			
23	2'-O-Methyl RNA C	2'-O-Methyl RNA C	сто		A+C	м
24	2'-O-Methyl RNA G	2'-O-Methyl RNA G	Desalted		A+C+G	v
25	2'-O-Methyl RNA U	2'-O-Methyl RNA U	HPLC		A+C+G+T	N
26	6-FAM	3'-dA (chain terminator)	HPLC 2-Step		A4G	R
	Alexa Fluor 532	3'-dC (chain terminator)	PAGE		A+T	w
28	Alexa Fluor 594	3'-dG (chain terminator)	PAGE 2-Step		A+T+C	н
29	Alexa Fluor 647	3'-dT (chain terminator)			A+T+G	D
30	Alexa Fluor 660	6-FAM			C+G	s
31	Amine	Alexa Fluor 660			C+T	Y
32	Amino OS	Amino modifier C6 dT			Deoxyadenine	A
33	BHQ1 dT	Biotin-TEG			Deoxycytosine	C
34	BHO2 dT	Bodipv630/650			Depxysuanidine	G

d) This is what the file looks like when it is ready for upload. It must be saved as a CSV file. The modifications should be built into the sequence in square brackets, hence if a value is at the start of the sequence it is taken to be the 5' mod, at the end it will be the 3' mod and in the middle will be an internal mod of the code preceding the bracket.

	Α	В	С	D	E	F
1	Researcher Name	Oligo name	Minimum scale	Scale units	Oligo sequence (5' to 3')	Purification
2	Michelle Plimmer	Validation Test1	50	nano	ACG GCI CGA GC	Desalted
3	Michelle Plimmer	Validation Test2	200	nano	GTA TCG ACA TGA AGA CCG GGC	HPLC
4	Michelle Plimmer	Validation Test3	50	nano	CCC AAG CTT GGG TTA AGA GTC CA	Desalted
5	Michelle Plimmer	Validation Test4	200	nano	ATG CAT GCA TGC ATG C[8BrdG]AT	Desalted
6	Michelle Plimmer	Validation Test5	50	nano	ATA GAT AGA TGA GTT CCC TGA TG.	PAGE

Uploading your template and raising the requisition.

- a) Return to the oligos screen and click on **Browse** to find your csv file, then click on **Upload**.
- b) The results of the upload will be shown as follows:

		Create new oligo	L Upload from csv file	Select a previously ordered oligo	
Forward 100 Researcher name: Minimum scale:	1 Mr Example 200.0 nmole		Purification: 5 modification: 3 modification:	Desalted Rhodamine None	Clear a
		5' - AC	G TAC GTG CTA CGT - 3		
Forward 100 Researcher name: Minimum scale:	2 Mr Example 10.0 µmole		Purification: 5 modification: 3 modification:	HPLC None Fluorescein	Edit Delete Copy
		5' - A	GC TGT AAC CGG TT - 3'		

c) Click on **Pricing**. See page 10 for further information on pricing

Pricing oligos

Once you have created the oligo, click on 2. **Pricing >.** The screen will display the names of suppliers who can provide this oligo specification.



Select the relevant supplier and click on 3. **Finalise.** Oligo can then be **added to basket.**



Oligo will now display in the Shopping basket within the Marketplace. Click on **Checkout** to return it to iProcurement to complete the requisition checkout process as per normal.

		Subtot	al: 96.95				
		A CL	ieckout				
		\₩ Add this baske	et to a saved basket				
	Delete selected items				Update b	asket Emp	y basket
	Details		charge	size	Unit price	quantity	Tota
	Oligo - Forward	100 1					
	Researcher	Mr Example					
	Supplier	Thermo Fisher Scientific (Life Technologies)					
7	Scale	1.0 µmole	No delivery	1	96.95	1	96 95
	Scale Purification	1.0 µmole Desalted	No delivery charge	1	96.95	1	96.95
	Scale Purification 5' mod	1.0 µmole Desalted Rhodamine	No delivery charge	1	96.95	1	96.95

Raising complex Merck Life Sciences UK oligos

The oligo module on the marketplace enables you to enter details of standard oligos. If you wish to order complex oligos such as SiRNA, dual probe, well plate and peptides etc. then you will need to use the punch-out facility on the marketplace. This is a link in the oligo module which will take you directly to the supplier website, where you can create the oligos you need and then return you to the marketplace so that you can check out as normal and create your requisition.

Full instructions for ordering the different type of oligos are available on the supplier website. Merck Life Sciences UK also provides a number of templates to download from their website to enable you to upload multiple oligos and these are available via the template link.

From the screen seen on page 5, click + Create external Merck Life Sciences UK Oligo. You will see the following:

Hello Punchout Camhli

AGRCK

a) Click on Oligos & Peptides under Additional Links



RNA Oligos, siRNA duplex, shRNA,

CRISPR, ZFNS, mIRNAs, and ORFs targeting a specific gene or mRNA of interest.

A oligos and qPCR probes for a

b) Click on Oligos & Probes

Peptides provided in formats for a

Order Center | 🗮 United Kingdon

c) Click on the **Order** button for the relevant item



DNA oligos in tubes: manual entry



Confirm Order

Additional Comments / Specifications (Optional)

*Subtotal: £11.25

Shipping: Ambient (Room temperature) *Price displayed is a subtotal amount. Applicable freight, taxes & fees will be appled during Promotional codes can be appled during checkour



DNA oligos in tubes: template upload

Click on Upload or Copy & Paste



Either Click on **Select File** (if you have already downloaded and saved the template) and upload from your saved file or click on **Multiple Entry Template** to save it.

You can also use Copy & Paste.

Follow the guidance on the screens to create, add and checkout your items



Other customised products

Merck Life Sciences UK also provides a range of other customised products, including:

- Well plates
- SiRNA
- RNA
- Duel probe oligos
- Peptides
- Speciality primers.

They are all available via the marketplace punch-out and follow similar a similar ordering process to the above. Instructions and templates are available on the Merck Life Sciences UK website.

Should you need to order complex oligos from suppliers other than Merck Life Sciences UK, then you will need to raise a non-catalog order through the iProcurement module.

Lifetech has its own website which allows you to create an account to build oligos similar to the Merck Life Sciences UK punch-out. The main difference is it is not linked directly to UFS, so ascertain the price of the oligo through Lifetech's website and then place a non-catalog order using this information.