

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT4921338

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
GABOR BUTORA	04/28/2017
MATTHEW STANTON	04/24/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	MODERNATX, INC.
<b>Street Address:</b>	200 TECHNOLOGY SQUARE
<b>City:</b>	CAMBRIDGE
<b>State/Country:</b>	MASSACHUSETTS
<b>Postal Code:</b>	02139
<b>PROPERTY NUMBERS Total: 3</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15319840
<b>Application Number:</b>	15760686
<b>Application Number:</b>	15760667
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(617)428-7045
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Phone:</b>	(617) 428-0200
<b>Email:</b>	patentadministrator@clarkelbing.com
<b>Correspondent Name:</b>	CLARK & ELBING LLP
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<b>Address Line 4:</b>	BOSTON, MASSACHUSETTS 02110
<b>ATTORNEY DOCKET NUMBER:</b>	50858-023/058/068003
<b>NAME OF SUBMITTER:</b>	MICHAEL J. BELLIVEAU, PH.D.
<b>SIGNATURE:</b>	/Michael J. Belliveau, Ph.D./
<b>DATE SIGNED:</b>	04/18/2018
<b>Total Attachments: 3</b>	
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## ASSIGNMENT

I,

Full Name of Assignor	City	State (and Country if not USA)
Gabor BUTORA	Cambridge	MA
Matthew STANTON	Marlton	NJ

acknowledge the assignment, as of the filing dates, to:

Full Name of Assignee	State of Incorporation	Business Address
ModernaTX, Inc.	Delaware	200 Technology Square Cambridge, MA 02139

and to its successors and assigns (collectively hereinafter called the "ASSIGNEE"), for good and valuable consideration paid to ASSIGNOR by ASSIGNEE, the receipt and sufficiency of which is hereby acknowledged, the entire right, title, and interest in, to, and deriving from the invention(s) disclosed in the patent application(s) set forth below throughout the world by operation of law, contract, or otherwise, and any Letters Patent which may hereafter be granted on the same including any application claiming priority, divisions, renewals, continuations in whole or in part, substitutions, conversions, reissues, reexaminations, prolongations or extensions thereof.

Title of Application	Filing Date	Serial Number	Attorney Docket No.
ALTERNATIVE NUCLEIC ACID MOLECULES AND USES THEREOF	December 19, 2016	15/319,840	50858-023003
POLYNUCLEOTIDES CONTAINING A STABILIZING TAIL REGION	September 19, 2016	PCT/US2016/052451	50858-058WO3
POLYNUCLEOTIDES CONTAINING A MORPHOLINO LINKER	September 19, 2016	PCT/US2016/052482	50858-068WO3

Furthermore, we authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known; this assignment includes said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our names or in its own name for patents, utility models, design registrations, and like rights of exclusion, and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation, to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements, and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment. This assignment also includes the right to sue for past acts of infringement, whether based on any patents listed herein, patents issuing from applications listed herein, or provisional rights from any patent applications listed herein.

IN WITNESS WHEREOF, I hereto set my hand and seal at \_\_\_\_\_,  
this \_\_\_\_ day of \_\_\_\_\_, 20\_\_.

\_\_\_\_\_  
Gabor BUTORA L.S.

WITNESSED BY

PRINTED NAME

IN WITNESS WHEREOF, I hereto set my hand and seal at Modem aTY INC. 200 technology sq. Cambridge, MA 02139  
this 24 day of April, 2017.

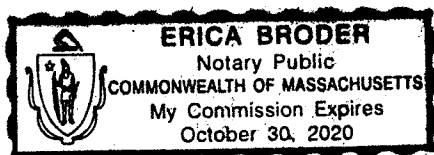
[Signature] L.S.  
Matthew STANTON

[Signature]

WITNESSED BY

ERICA BRODER

PRINTED NAME

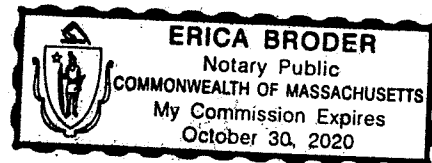
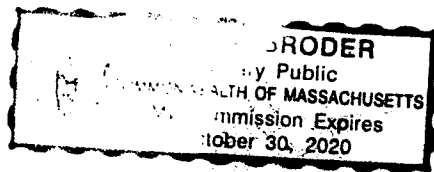


IN WITNESS WHEREOF, I hereto set my hand and seal at Cambridge, MA,  
this 28 day of APRIL, 2017.

Gabor Butora L.S.  
Gabor BUTORA

[Signature]  
WITNESSED BY

ERICA Broder  
PRINTED NAME



IN WITNESS WHEREOF, I hereto set my hand and seal at \_\_\_\_\_,  
this \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

\_\_\_\_\_  
Matthew STANTON L.S.

\_\_\_\_\_  
WITNESSED BY

\_\_\_\_\_  
PRINTED NAME