The RNAcore at the Houston Methodist Research Institute is staffed by experienced scientists and researchers who produce high fidelity research and clinical-grade RNA, including mRNA, modified mRNA (mmRNA), and noncoding RNA, for the support of fundamental research and clinical applications.

RNAcore

Email: RNAcore@houstonmethodist.org
Phone: 713.363.9043 / 713.441.3927
houstonmethodist.org/rnacore

MAP LEGEND

- METRORAIL
- HOUSTON METHODIST RESEARCH INSTITUTE
- DRYDEN/TMC METRORAIL STATION
- ACCOMODATIONS
- PARKING

HOUSTON Methodist® LEADING MEDICINE

Houston Methodist Research Institute

6670 Bertner Avenue
Houston, TX 77030

houstonmethodist.org/cores

HMRI Communications & External Relations | RICORE-004A | MM | DH | 500 | 05.2016

HOUSTON METHODIST RESEARCH INSTITUTE

RNAcore

RNAcore

The RNAcore at the Houston Methodist Research Institute is a leader in RNA synthesis, generating RNA constructs for the scientific and medical communities in the Texas Medical Center and across the world. Beginning as a core group for the Progenitor Cell Biology Consortium of the National Heart, Lung, and Blood Institute, the RNAcore is now also supported by the Cancer Prevention Research Institute of Texas, to further the development of cutting-edge RNA technologies.

RNA Services

The RNAcore provides services for the development and generation of high-fidelity mRNA, mmRNA, and noncoding RNA for any gene/loci of interest. With the use of an error-free plasmid template and efficient, fast construct generation, we can provide a wide range of generic or customized RNA molecules for any desired species, with various specified modifications.

The RNAcore produces high-fidelity research and clinical-grade RNA, including:

- mRNA
- modified mRNA (mmRNA)
- Long noncoding RNA and miRNA
- Customized bicistronic constructs
- Contructs with reporter genes

RNA available from RNAcore

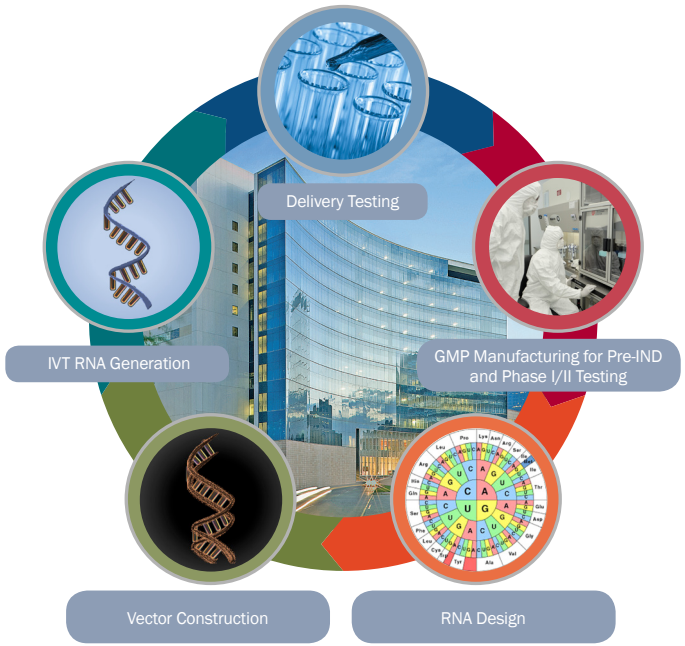
Cell-Based Therapies and Immunotherapies
MSCs, iPSC-derived vascular cells, Dendritic cell vaccines, CART, IL-2, IL-7, IL-10, IL-12

Differentiation and Trans-differentiation
GATA2
ETV2
FLI1
GATA4-wt

Reprogramming
Disease models
Regenerative medicine
Oct-4
KLF4
SOX2
LIN28
c-Myc

Transient Protein Expression and Signaling Pathway Studies
Telomerase expression, Reporter genes
TERT-wt
TERT-ci
nGFP
mCherry
FLuc

Genome Editing and Integrated Gene Therapy
Transposase and CRISPR functional studies
Cas9
SB11



Specialized Services

RNA molecules can be produced for any species, any loci of interest, and incorporate any of the following modifications:

- 5-methyl-CTP
- Pseudo-UTP
- Anti-reverse cap analog (ARCA)
- Long 150 nt poly-A tail
- Sequence-optimized
- Nucleotide fluorophore tagging

RNA molecules can also be generated in any of the following methods:

- Research-grade, without HPLC purification
- Research-grade, with HPLC purification
- cGMP-grade