

From Gene to Protein within One Day

with **biotechrabbit** Cell-Free Protein Synthesis Kits

biotechrabbit Rapid Translation Systems (RTS) are in vitro transcription/translation systems for accelerated, scalable protein production with high yields. **biotechrabbit** expression systems are based on extracts from E. coli, wheat germ, and insect cells.

Screening of biomarkers

Biopharma

Vaccine development

Fast & Parallel Expression of a Broad Range of Proteins for

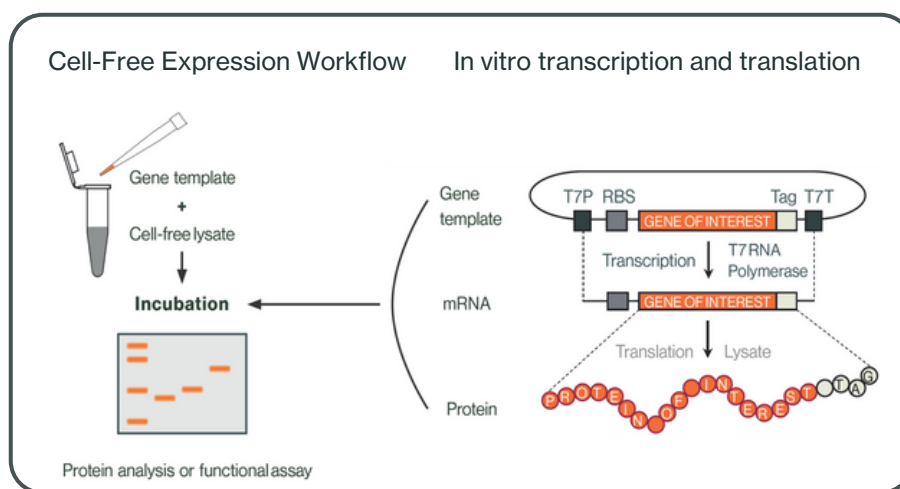
Characterization studies

Structural analysis

Functional assays

Features:

- Expression of proteins toxic for the host cells
- Expression of different protein classes
- Enhanced high-yield (HY) buffer compositions
- Compatible with T7 expression vectors
- Continuous exchange during cell-free expression (CECF) for yields of up to 50 mg
- Prokaryotic and eukaryotic systems
- Convenient workflow, all components included
- High-throughput screening approaches
- Dedicated His-tag protein purification kits
- Excellent reproducibility
- Variety of RTS kits supplements
- Easy site-specific labeling of proteins



With RTS kits there is NO:



Cell Culture

Transfection

Transformation

Sequence Optimization

Cloning

GMO

RTS kits use two types of technologies:

Batch and Continuous Exchange Cell-Free Expression (CECF)

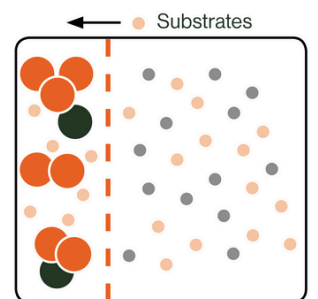
- Cell-free protein expression in **batch** format is highly suitable for screening applications due to the fast and easy setup.
- Highest yields are achieved with **continuous exchange cell-free expression (CECF)**, which allows protein expression to continue for 24 hours. **CECF** relies on diffusion through a semipermeable membrane between the reaction and the feeding chamber. The reaction chamber contains the machinery for protein expression, while the feeding chamber continuously supplies amino acids, NTPs and energy-regenerating compounds.

Batch

CECF



● Active components
● Protein product



● Inhibitory byproducts
- - - Semipermeable membrane

Revolutionize protein expression with **biotechrabbit** RTS kits!



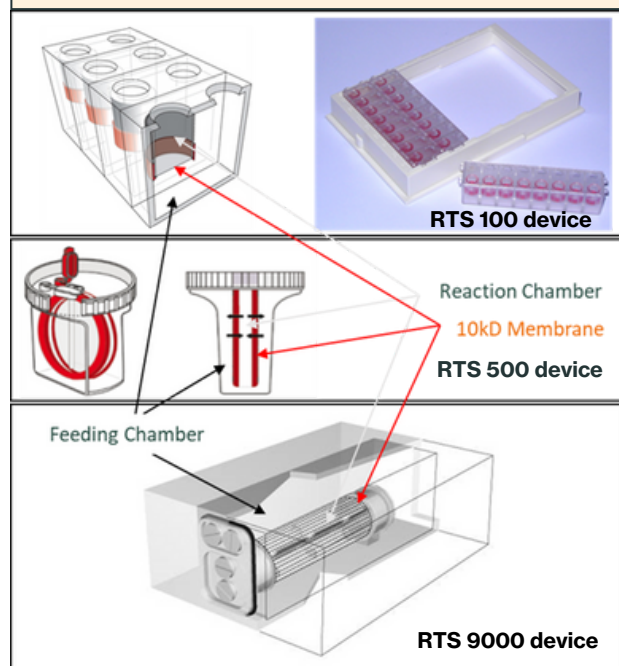
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Cell-Free Protein Synthesis Kits:

CAT #	PRODUCT	SIZE
Rapid Translation System (RTS)		
BR1400106	RTS 100 E. coli HY Kit	6 rxns of 50 µl
BR1400101		24 rxns of 50 µl
BR1400102		96 rxns of 50 µl
BR1400201	RTS 500 ProteoMaster E. coli HY Kit (CECF)	5 rxns of 1 ml
BR1400301	RTS 9000 E. coli HY Kit (CECF)	1 rxns of 10 ml
BR1400401	RTS 100 E. coli Disulfide Kit (CECF)	24 rxns of 50 µl
BR1400501	RTS 500 E. coli Disulfide Kit (CECF)	5 rxns of 1 ml
BR1402501	RTS 100 Wheat Germ Kit	24 rxns of 50 µl
BR1401001	RTS 100 Wheat Germ CECF Kit	24 rxns of 50 µl
BR1401101	RTS 500 Wheat Germ CECF Kit	5 rxns of 1 ml
BR1401501	RTS 100 Insect Membrane Kit	5 rxns of 50 µl
BR1401502		20 rxns of 50 µl
BR1401901	RTS 500 Adapter	1 Adapter
RTS Supplements		
BR1401801	RTS Amino Acid Sampler	5 rxns of 1 ml
BR1401601	RTS DnaK Supplement	5 rxns of 1 ml
BR1401701	RTS GroE Supplement	5 rxns of 1 ml
RTS Linear Templates and Vectors		
BR1402401	RTS Linear Template Kit Plus	20 PCRs of 25 µl
BR1402201	RTS Linear Template Fab Kit	96 PCRs of 25 µl
BR1401201	RTS Wheat Germ LinTempGen Set, His6-tag	96 PCRs of 50 µl
BR1400801	RTS 100 E. coli LinTempGen Set, His-tag	96 PCRs of 50 µl
BR1401301	RTS pIVEX Wheat Germ His6-tag Vector Set	2 vectors
BR1400701	RTS pIVEX E. coli His-tag, 2nd Gen. Vector Set	2 vectors
BR1402701	RTS pIX3.0 Vector	1 vector
BR1400901	RTS pIX4.0 Insect Vector	1 vector
RTS Devices for CECF		
K00361	RTS 100 device with 50 µl reaction volume	1 device
K00364	RTS 500 device with 1 ml reaction volume	1 device
K00365	RTS 9000 device with 10 ml reaction volume	1 device



RTS Devices for CECF



Three devices for easy Scale-Up (CECF Technology):

- **RTS 100 CECF device**
1 ml feeding chamber with 50 µl reaction volume
Microplate format
- **RTS 500 ProteoMaster device**
10 ml feeding chamber with 1 ml reaction volume
- **RTS 9000 device**
100 ml feeding chamber with 10 ml reaction volume

