



Protein Production at WuXi AppTec's HitS





Expertise Across All Target Classes

Seamless platform from protein production to structure-based drug design

Kinases

ATM, AMPK, NEK7, PI3K, ROR1, SRC, ULK1, WEE1...

Membrane Proteins

Glucose transporter, P2X3, GPR40, CNR1, β2AR...

DNA Damage Response

ATM, ATR/ATRIP, CHK1, CHK2, CDKs and cyclins ...

Neurodegeneration

BACE1, PDE, NFE2L2, PTPN1, MAO-B, NTRK1, JNKs...

RNA/DNA Mod. Proteins

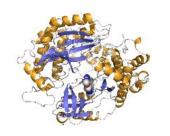
Cas9, FEN1, EME1, DDX58, SND1, WRN, SMARCAs...

Epigenetic Targets

BRD2, BAZ1A, CREBBP, SIRTuins, HDACs, EHMT1...

Immune System

cGAS, STING, IL1, ILRL1, MMPs, antibodies...





Over
1200
proteins purified



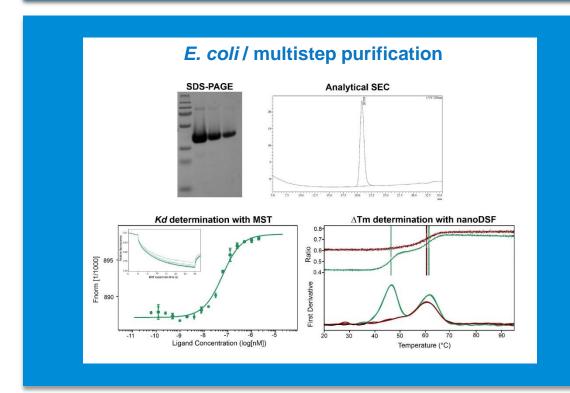




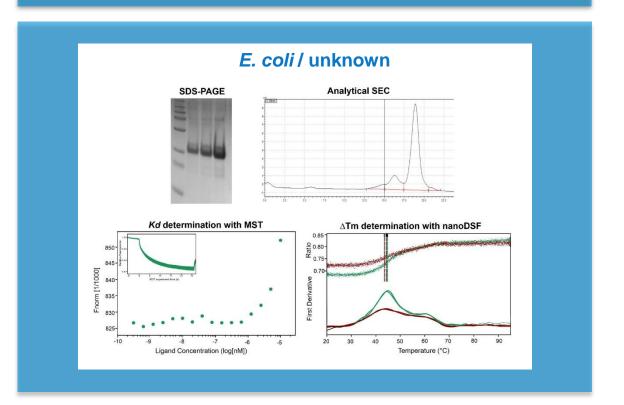
Focus on Protein Quality

Mass spectrometry and nanoDSF analyses guarantee the identity and proper folding of a protein

CRELUX PRIME Protein



Catalogue provider





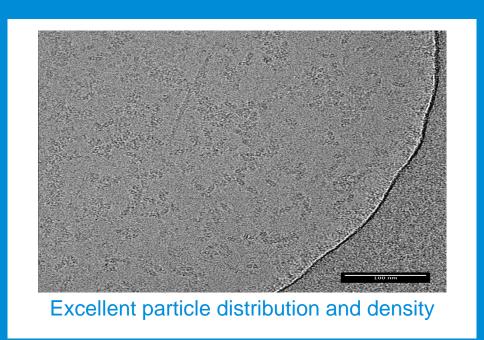


Focus on Protein Quality

Cryo-EM images endorse excellent protein quality of 700 kDa dimeric soluble complex

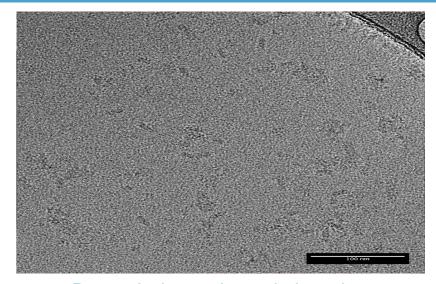
CRELUX Cryo-EM Protein for





Competitors Cryo-EM Protein for





Degraded protein and clumping





Workflow Protein Production

Unique platform for tailored high purity protein production



Construct Design

Extensive protein engineering can be performed to deliver a target protein that perfectly suits your downstream application.



Cloning

Enhanced expression systems are used.



Expression

Rapid identification of optimal conditions through parallel test expression in *E.coli*, insect or mammalian cells.



Purification & QC

Each protein undergoes extended QC that includes SDS-PAGE, SEC, and MS analysis.



Delivery

The proteins are delivered on dry ice by a carefully selected carrier.





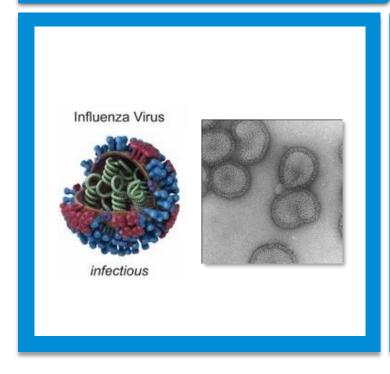
Enhanced Protein Expression Tools

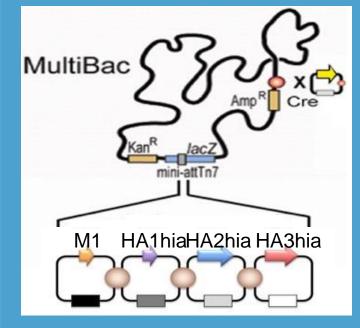
Insect cell expression of protein complexes

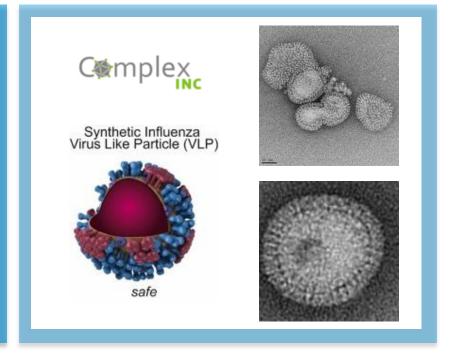
Influenza Virus-Like Particles (VLPs)

MultiBac VLP Factory

Flu VLPs









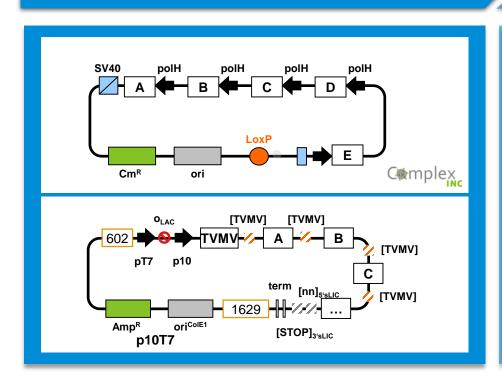


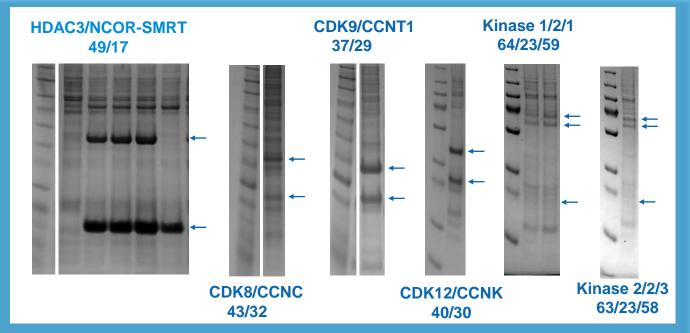
Enhanced Protein Expression Tools

Mammalian / insect cell expression of protein complexes

MultiBac[™]/ ComplexLink[™]

Protein complex production by BVES/BacMAM









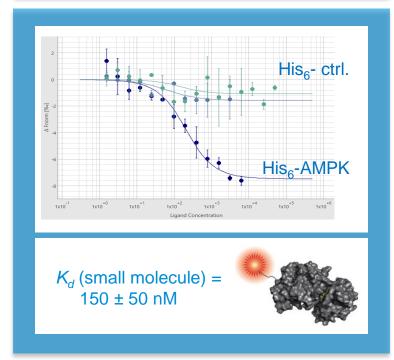
Protein Complexes

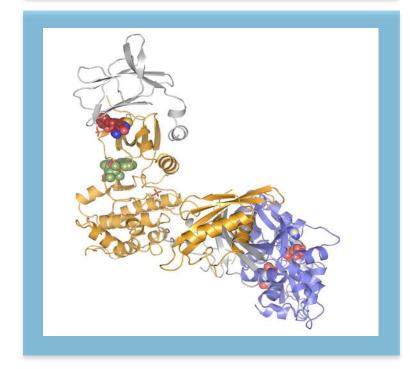
AMPK – AMP activated protein kinase

PRIME Protein Production

PRKAA1
PRKAB1

Biophysics - MST









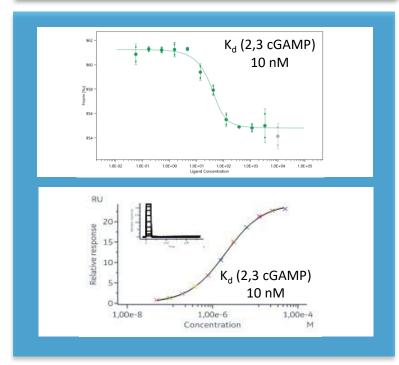
Immune Therapy / Rare Diseases

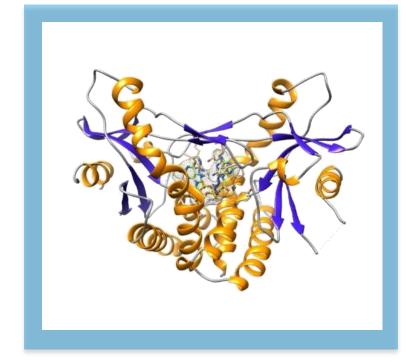
STING – stimulator of interferon genes

PRIME Protein Production

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Biophysics - MST







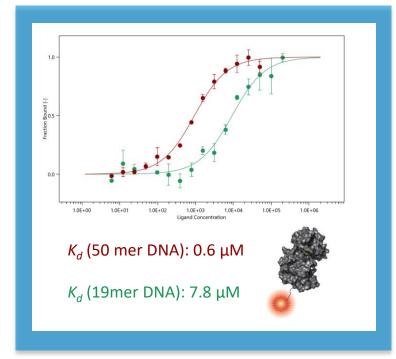


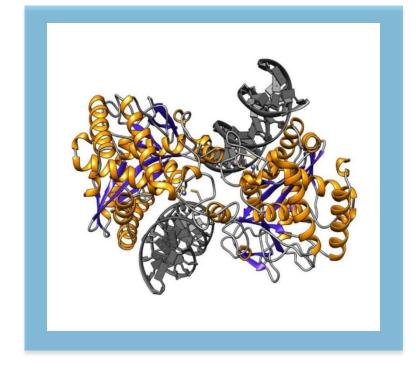
Immune Therapy / Rare Diseases

cGAS - DNA sensor in the STING pathway

PRIME Protein Production

Biophysics - MST





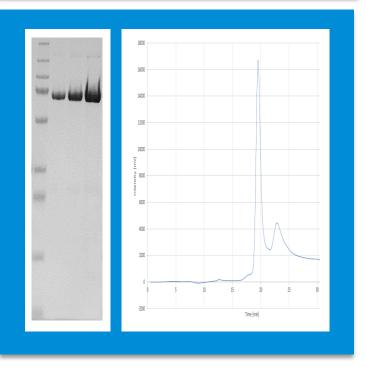




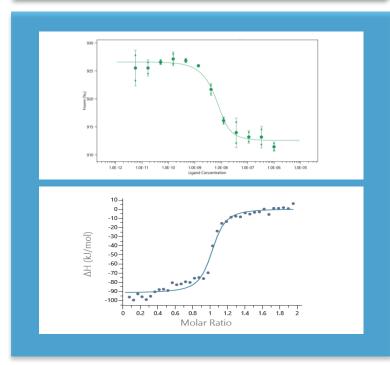
DNA Modifying Proteins

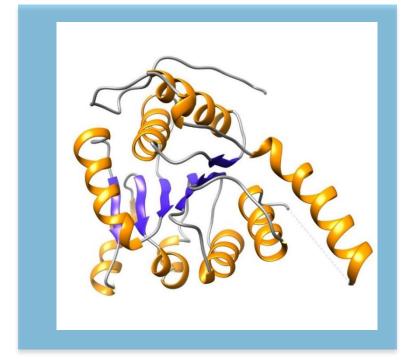
SMARCA2 – transcriptional regulator / chromatin remodeling

PRIME Protein Production



Biophysics - MST







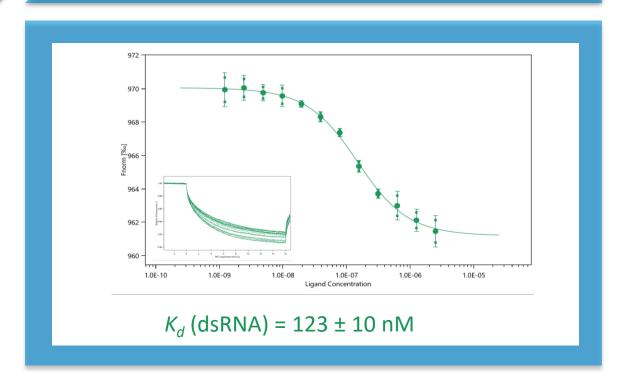


RNA Modifying Proteins

DDX58 – ATP-dependent RNA helicase

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Biophysics - MST





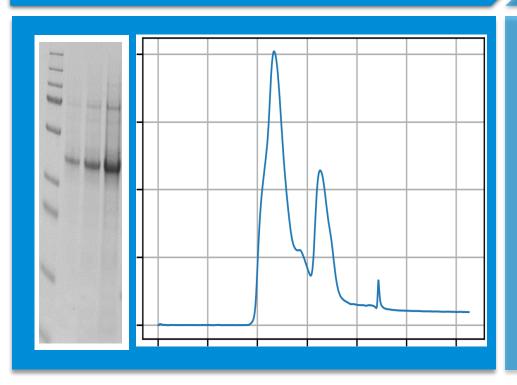


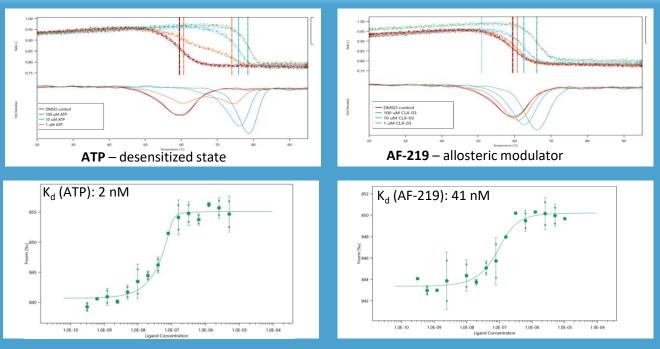


P2X3 – ATP-gated ion channel

Prime Protein Production

Biophysics – nanoDSF & MST



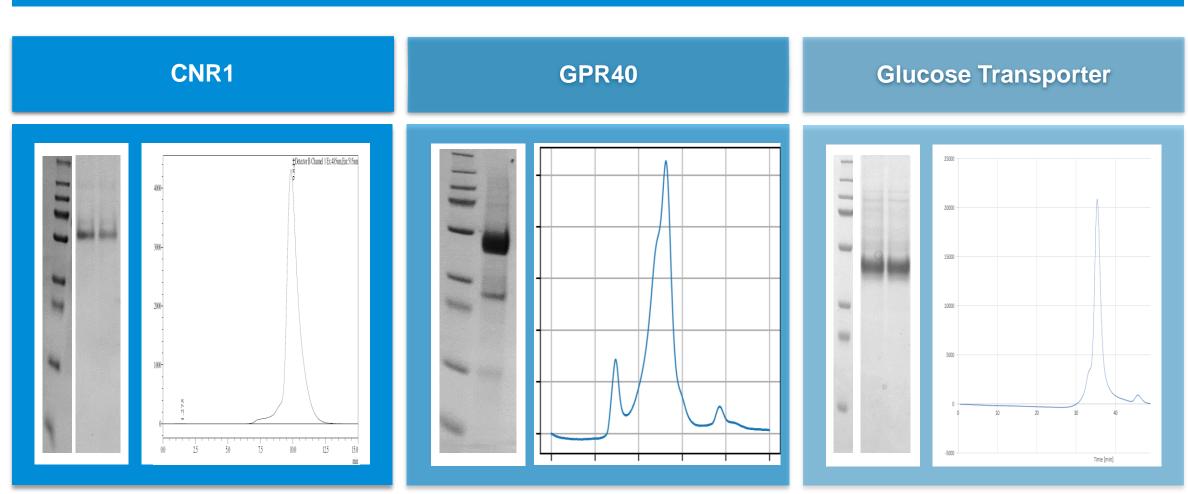






Membrane Proteins

PRIME Protein production









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