

# ACES™

## AthenaES™ Complete Expression System



Don't Gamble  
with Your Proteins

### □ ACES™ YebF Protein Export Kit

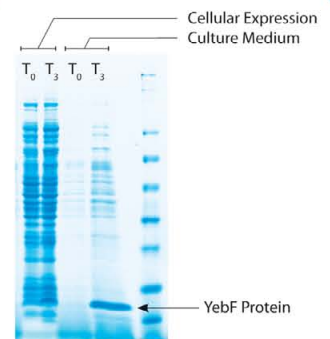
The ACES™ YebF Protein Export Kit uses the YebF protein to transport other target proteins through the inner and outer membranes of *E. coli* cells to the extracellular medium in active form. This simplifies downstream purification and allows for the expression of toxic proteins and proteins that do not fold correctly in the *E. coli* cytoplasm.

### □ ACES™ Signal Sequence Kit

The ACES™ Signal Sequence Kit provides a set of six expression vectors each with a different signal sequence for protein export to the periplasmic space of *E. coli* using either the SEC, SRP or TAT protein secretion pathway. Since the use of a post-translational or co-translational export mechanism is protein-specific and cannot be known *a priori*, this kit allows for the selection of the translocation pathway best suited for a given recombinant protein.

### □ ACES™ Promoter Selection Kit

The ACES™ Promoter Selection Kit applies the principle that the overall expression rate can determine not only the total accumulation level, but also the amount of soluble protein that is made. By titrating the promoter activity, one can fine-tune the expression level to meet the specific needs of target protein production levels.



Using the ACES™ pAES40 vector, the YebF protein was expressed in the culture medium at a production level of 340 mg/L.



Athena Enzyme Systems™

[www.athenaes.com](http://www.athenaes.com)

Available in Canada from...



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### ACES™ YebF Protein Export Kit

0148-3 ACES™ YebF Protein Export Kit

#### Kit Components, Available for Individual Purchase

Catalog Number	Product	Size
0149-40	pAES40	10µg
0151-JM109-C	JM109 Competent Cells	2 x 200µL
0152-1	Inducer Solution A	1mL
0153	Inducer Solution B	100mL
0154	Secretion Enhancer Solution A	60mL
0155	Secretion Enhancer Solution B	60mL
0313-1	Anti-YebF Antisera	0.5mL
0103	LB Broth (Miller)	1L
0104	Turbo Broth™	1L
0105	Superior Broth™	1L
0106	Power Broth™	1L
0107	Hyper Broth™	1L
0108	Glucose M9Y	1L
0109	Glucose Nutrient Mix	21g
0123	Augmedium™ (50x stock)	25mL

### ACES™ Signal Sequence Kit

0148-2 ACES™ Signal Sequence Kit

#### Kit Components, Available for Individual Purchase

Catalog Number	Product	Size
0149-30	pAES30	10µg
0149-31	pAES31	10µg
0149-32	pAES32	10µg
0149-33	pAES33	10µg
0149-34	pAES34	10µg
0149-35	pAES35	10µg
0151-JM109-C	JM109 Competent Cells	2 x 200µL
0152-1	Inducer Solution A	1mL
0153	Inducer Solution B	100mL
0154	Secretion Enhancer Solution A	60mL
0155	Secretion Enhancer Solution B	60mL
0103	LB Broth (Miller)	1L
0104	Turbo Broth™	1L
0105	Superior Broth™	1L
0106	Power Broth™	1L
0107	Hyper Broth™	1L
0108	Glucose M9Y	1L
0109	Glucose Nutrient Mix	21g
0123	Augmedium™ (50x stock)	25mL

### ACES™ Promoter Selection Kit

0148-1 ACES™ Promoter Selection Kit

#### Kit Components, Available for Individual Purchase

Catalog Number	Product	Size
0149-25	pAES25	10µg
0150-1	Primer A	250pmoles
0150-2	Primer B	250pmoles
0151-JM109-C	JM109 Competent Cells	2 x 200µL
0152-1	Inducer Solution A	1mL
0103	LB Broth (Miller)	1L
0104	Turbo Broth™	1L
0105	Superior Broth™	1L
0106	Power Broth™	1L
0107	Hyper Broth™	1L
0108	Glucose M9Y	1L
0109	Glucose Nutrient Mix	21g
0123	Augmedium™ (50x stock)	25mL

#### ACES™ Accessory Products Pricing

Catalog Number	Product	Size
0149-25	pAES25	10µg
0149-30	pAES30	10µg
0149-31	pAES31	10µg
0149-32	pAES32	10µg
0149-33	pAES33	10µg
0149-34	pAES34	10µg
0149-35	pAES35	10µg
0149-40	pAES40	10µg
0150-1	Primer A	250pmoles
0150-2	Primer B	250pmoles
0151-JM109-C	JM109 Competent Cells	2 x 200µL
0151-	Strain Stab	Stab
0152-1	Inducer Solution A	1mL
0152-5	Inducer Solution A	5 x 1mL
0153	Inducer Solution B	500mL
0154	Secretion Enhancer A	500mL
0155	Secretion Enhancer B	500mL
0156	Rapid Transformation Kit	1 kit
0157	2x TSS	5 x 1 mL
0313-1	Anti-YebF Antisera	0.5mL